

Parts Manual

G3516 Generator Set

2DM1838-Up (Generator)
5TA1035-Up (Generator)
5WN1842-Up (Generator)
5YA1175-Up (Generator)
5ZA755-Up (Generator)
6AA2900-Up (Generator)
6DW1203-Up (Generator)
6PA2600-Up (Generator)
8GW702-Up (Generator)
8LZ540-Up (Generator)
8ZD865-Up (Generator)
G3W1-Up (Generator)
ZBA1-Up (Generator Set)

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GENERAL INFORMATION

1. ENGINE IDENTIFICATION

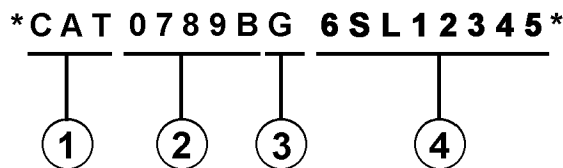
Caterpillar engines are identified with Serial Numbers and Arrangement Numbers. In some cases, Modification Numbers are also used. The serial number plate which shows these numbers is mounted on the engine.

Caterpillar dealers need this information to determine which components were included on the engine when it was assembled at the factory. This permits accurate identification of replacement part numbers.



New Feature

Effective First Quarter 2001 the Caterpillar Product Identification Number (PIN) changed from 8 to 17 characters. In an effort to provide uniform equipment identification, Caterpillar and other construction equipment manufacturers are moving to comply with the latest version of the product identification numbering standard. Non-road machine PINs are defined by ISO 10261. The new PIN format will apply to all Caterpillar machines and generator sets. The PIN plates and frame marking will display the 17 character PIN. The new format will look like the following:



Where:

1. Caterpillar's World Manufacturing Code (characters 1-3)
2. Machine Descriptor (characters 4-8)
3. Check Character (character 9)
4. Machine Indicator Section (MIS) or Product Sequence Number (characters 10-17). These were previously referred to as the Serial Number.

Machines and generator sets produced before First Quarter 2001 will maintain their 8 character PIN format.

Components such as engines, transmissions, axles, etc. and work tools will continue to use an 8 character Serial Number (S/N).

2. ORDERING PARTS



WARNING

When replacement parts are required for this product Caterpillar recommends using Caterpillar replacement parts or parts with equivalent specifications including, but not limited to, physical dimensions, type, strength and material.

Failure to heed this warning can lead to premature failures, product damage, personal injury or death.

Quality Caterpillar replacement parts are available from Caterpillar dealers throughout the world. Their parts inventories are up to date and include all parts normally required to protect your investment in Caterpillar machines. Dealers may offer repair kits or remanufactured parts to allow selection of the most effective repair alternative for a particular situation. When ordering parts, your order should specify the quantity, part number, part name, and the serial number/product identification number of the engine for which the parts are needed.

3. PARTS MANUAL ORGANIZATION

Product information in this manual is presented as "information elements" that represent all of the components for the specific model. Engine Arrangement and Seat Group are examples of information elements. The information elements are organized alphabetically by part name and secondarily by part number within each major section of the manual.

4. TABLE OF CONTENTS

A table of contents (TOC) is found at the beginning of the manual. The TOC lists each section of the manual with a complete list of all information elements organized as they appear in the manual. Page numbers are provided for quick reference to detailed parts identification illustrations and serviceable consist lists.

5. MAINTENANCE PARTS INDEX

The Maintenance Parts Index, located near the beginning of the manual, references most frequently used maintenance part numbers, providing description, quantity, usage and page number. This information is organized alphabetically by part description.

GENERAL INFORMATION

6. INDEX

The index located near the front of the manual is an alphabetical listing of all information elements included in the manual. Page numbers are provided for quick reference to detailed parts identification illustrations and serviceable consist lists.

7. PART NUMBER INDEX

A numerical index listing all part numbers and the corresponding page number(s) appears at the back of the manual.

8. CAPTIONS

Captions located at the beginning of each information element identify the part number and part name along with additional descriptive information. S/N information found in each caption should be used to select correct information for a specific engine. Field replacement options, identification of optional attachment components, and where used ("part of") information is also provided.

The first line of a caption is shown in larger type font to indicate the beginning of an information element. Captions for additional pages that may be required to illustrate an information element will be shown in standard type font and will include the term (*contd.*) .

9. NON-SERVICED PARTS

In some instances it is necessary to display non-serviced parts that are a link to lower level serviceable consist lists. These non-serviced part numbers are shown in *italic* type indicating that they are not available. All consist lists have not been converted to reflect this enhancement.

10. PARTS LIST REFERENCE NUMBERS

Numbers shown in the Ref No column correspond to numbers used in the associated graphic(s). An alphabetic suffix may be added to a reference number to identify lower level consist items. Numbers shown in the Graphic Ref column refer to the graphic number identifier displayed in the lower left corner of each illustration. The Graphic Ref number may be used in combination with the item Ref No to determine the correct part number. There may be intentional omission of a Ref No in a consist list as information is updated to reflect the latest serviceable part numbers.

11. INDENTED PART NAMES

When a part name is indented in a parts list, it is part of (included in) the group or assembly under which it is indented.

12. ILLUSTRATION REFERENCE LETTERS

When necessary, illustrations contain reference letters (A, B, C etc.) that are intended to track lines and harnesses from one point to another. They are also used to show where to reconnect illustrations that have been separated.

13. ABBREVIATIONS AND SYMBOLS

O.D. – Outside Diameter
I.D. – Inside Diameter
A – Not Part Of This Group
B – Use As Required
C – Change From Previous Type
D – Order By The Meter
E – Order By The Centimeter
F – Not Shown
G – Order By The Inch
I – Refer To Hydraulic Information System
M – Metric Part
R – Remfg Part May Be Available
Y – Separate Illustration
Z – Not Serviced Separately

14. REPLACEMENT PARTS FOR GENERATORS

Only those generators which are sold and serviced exclusively by "Caterpillar" Dealers are illustrated on the following pages. Externally-regulated "Caterpillar" Diesel Electric Sets are equipped with generators made by other manufacturers. Parts for these generators are NOT serviced by Caterpillar Inc. Parts lists and parts should be ordered from the manufacturer whose name is shown on the Generator Name Plate, always giving the generator rating and serial number shown.



New Feature

15. DESCRIPTION OF TYPE CHANGES

Type - A type is defined as any configuration change that requires an additional Information Element for an Arrangement, Group, or Assembly. If serial number breaks for types are not available, a type # (Type 1, Type 2, etc.) will be displayed in the caption. These "type" changes are identified with a "C" note (change from previous type) in the Parts List. Only the "types" that apply to this Parts Manual will be included. Additional types may exist causing "C" notes to appear on an Information Element when no other types are shown.

GENERAL INFORMATION

16. <END>

This symbol indicates the end of an information element.

NOTE:

Continuing improvement and advancement of product design may cause changes to your machine which may not be included in this publication. Whenever a question arises regarding your Caterpillar product or this publication, please consult your Caterpillar dealer for the latest available information.

REPAIR ALTERNATIVES

REMANUFACTURED COMPONENTS

As an option when making repairs consider Caterpillar Remanufactured Components. Components that are available through the Caterpillar Remanufactured Program are identified three ways in the parts book:

- with the letter R in the note field of the parts list
- with an R* at the beginning of the first line of the caption
- with an *R at the end of the first line of the caption

Typical components included in the Remanufacturing Program include:

ALTERNATORS
CONNECTING RODS
CRANKSHAFTS - UNDERSIZE
CRANKSHAFTS - UPGRADE TO NEW
CYLINDER HEADS
ELECTRONIC CONTROL MODULES (ECM)
ELECTRONIC SENSORS
FUEL INJECTORS
FUEL NOZZLES
FUEL PUMPS
GOVERNORS
OIL PUMPS
PISTONS
SHORT BLOCKS
STARTERS
TURBOCHARGERS - COMPLETE
TURBOCHARGER CARTRIDGES
WATER PUMPS

Caterpillar Remanufactured engines for many engine arrangements are also available.

SUPPLEMENTAL COOLANT ADDITIVES

CUSTOMER BENEFITS:

Protects against cavitation, foam, erosion, corrosion, and scale buildup in cooling systems.

- Provides measured coolant conditioner.

DESCRIPTION:

Additives deplete from the coolant with normal operation. For this reason, Supplemental Coolant Additives (SCA) must be added to all heavy duty coolants at regular intervals. In addition, when not using a fully formulated, pre-charged antifreeze, like Caterpillar's DEAC, an initial charge of SCA must be added to the cooling system. The amount of SCA added to the system is dependent on the capacity of the system.

The SCA for initial fill is provided as a liquid. SCA's for maintenance intervals are available in liquid form and as a spin-on element. (No Spin-on available for 3600 Family of Engines)

NOTE:

The amount of SCA added at initial fill is not the same as the amount added at maintenance intervals.

The coolant additive elements can be used with any ethylene or propylene glycol type antifreeze which meets ASTM D4985 or ASTM D5345 Specifications.

NOTE:

For use with standard heavy duty coolant only, not for use with Extended Life Coolant.

PARTS NEEDED:

Cooling System Capacity		Liquid SCA at Initial Fill	Liquid SCA at Maintenance*	Spin-on SCA Maintenance Element*
Liters	Gallons			
22-30	(6-8)	3P-2044 (1)	6V-3542 (1)	111-2370 (1)
30-38	(8-10)	3P-2044 (1) 6V-3542 (1)	111-2372 (1)	111-2369 (1)
38-49	(10-13)	3P-2044 (1) 8T-1589 (1)	111-2372 (1)	111-2369 (1)
49-64	(13-17)	3P-2044 (2)	8T-1589 (1)	9N-3368 (1)
64-83	(17-22)	3P-2044 (2) 8T-1589 (1)	111-2372 (1) 6V-3542 (1)	111-2371 (1)
83-114	(22-30)	3P-2044 (3) 8T-1589 (1)	3P-2044 (1)	9N-3718 (1)
114-163	(30-43)	3P-2044 (5)	3P-2044 (1) 6V-3542 (1)	111-2371 (2)
163-242	(43-64)	3P-2044 (8)	3P-2044 (2)	9N-3718 (2)

* Normal maintenance period is 250 hrs. See your Operation and Maintenance Manual for complete coolant maintenance instructions.

() Indicates quantity required.

MAINTENANCE PARTS

DESCRIPTION	PART NUMBER	QTY	WHERE USED	PAGE
AIR INLET AND EXHAUST SYSTEM				
BREATHING (EXHAUST BYPASS)	9G-5127	1	BYPASS GP-EXHAUST	431
		1	BYPASS GP-EXHAUST	434
FILTER ELEMENT AS-AIR (PRIMARY)	2W-4246	1	AIR CLEANER GP	423
	4P-0710	1	AIR CLEANER GP	415
	8N-6309	1	AIR CLEANER GP	417
		1	AIR CLEANER GP	421
		1	AIR CLEANER GP	424
	105-9741	1	AIR CLEANER GP	426
FILTER ELEMENT AS-AIR (SECONDARY)	8N-2556	1	AIR CLEANER GP	417
PLUG-DRAIN (AFTERCOOLER)	5B-9169	2	AFTERCOOLER GP-RAW WATER	402
ROD-ZINC (AFTERCOOLER)	6L-2288	2	AFTERCOOLER GP-RAW WATER	402
	115-8167	2	AFTERCOOLER GP-RAW WATER	404
BASIC ENGINE				
BELT-SERPENTINE	141-7116	1	MOUNTING GP-ALTERNATOR	137
PLUG-OIL DRAIN (OIL PAN)	4B-2363	2	PAN GP-OIL	143
PLUG-OIL DRAIN (PAN)	4B-2363	2	PAN GP-OIL	145
SCREEN AS-SUCTION (OIL PAN)	1W-1564	1	PAN GP-OIL	143
		1	PAN GP-OIL	145
V-BELT SET (INCLUDES 6-BELTS) (FAN DRIVE)	254-3526	1	PULLEY GP-FAN DRIVE	158

MAINTENANCE PARTS

DESCRIPTION	PART NUMBER	QTY	WHERE USED	PAGE
COOLING SYSTEM				
CAP GP-COOLANT FILLER (EXPANSION TANK)	294-9052	1	TANK GP-EXPANSION	378
CAP-RESERVOIR (7-PSI) (WATER TANK)	115-9128	1	TANK GP-WATER	383
CAP (WATER TANK)	109-5862	1	TANK GP-WATER	383
PLUG-DRAIN	9M-4202	1	LINES GP-WATER	283
		1	LINES GP-WATER	288
		1	LINES GP-WATER	300
		2	LINES GP-WATER	320
		2	LINES GP-WATER	331
		1	LINES GP-WATER	337
PLUG-DRAIN (OIL COOLER)	9M-4202	1	LINES GP-WATER	291
		2	LINES GP-WATER	315
		1	LINES GP-WATER	328
		2	LINES GP-WATER	341
PLUG-DRAIN (WATER LINE, LOWER)	9M-4202	1	LINES GP-WATER	265
		1	LINES GP-WATER	267
REGULATOR AS-WATER TEMPERATURE (110-DEG F)	151-6017	1	VALVE GP-THERMOSTATIC	389
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ENGINE ARRANGEMENT

6I-4412 CONVERSION AR-ENGINE-TURBOCHARGER
S/N: ZBA1-UP
FOR USE WITH CONVERSION FROM NATURAL GAS TO PROPANE
AN ATTACHMENT

SMCS-1000

i00661405

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	6I-4413	1	CONVERSION GP-GAS						580
Y	6I-1723	2	TURBOCHARGER GP						520
			-OR-						
Y	102-0278	2	TURBOCHARGER GP						526
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

133-3695 CONVERSION AR-ENGINE

S/N: ZBA1-UP

FOR USE WITH EIS, CSA CONVERSION
AN ATTACHMENT

SMCS-1000

i02809042

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	135-5013	1	CONTROL & COVER GP-ENG ELEK	720
			-OR-	
Y	104-2250	1	CONTROL & COVER GP-ENG ELEK	716
Y	130-7383	1	IGNITION GP-GAS ENGINE	778
Y	123-6323	1	BOX GP-CONTROL PANEL	1036
Y	131-3875	1	WIRING GP-ENGINE	1003
	030-7946	1	ELBOW	
	6V-5048	1	SEAL-O-RING	
Y-SEPARATE ILLUSTRATION				

ENGINE ARRANGEMENT

260-3664 ENGINE AR

S/N: ZBA1-UP

RATED SPEED 1200-RPM

SMCS - 1000

i02866375

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	108-4886	1	ACTUATOR GP-GOVERNOR						547
Y	4P-8950	1	AFTERCOOLER GP-TREATED WATER						405
Y	9Y-5313	16	ARRESTOR GP-FLAME						429
Y	4P-8312	2	BREATHING GP						164
Y	4W-5947	1	BYPASS GP-EXHAUST						431
Y	4P-8352	1	CAMSHAFT GP						39
Y	9Y-3190	1	CARBURETOR GP						552
Y	7W-6372	1	CONNECTION GP-WATER						242
Y	4P-7316	1	CONTROL GP-CARBURETOR						573
Y	4P-8890	1	CONTROL GP-ENGINE ELECTRONIC						738
Y	4W-5891	1	COOLER GP-ENGINE OIL						249
Y	9Y-6123	1	COVER GP-CYLINDER BLOCK (CENTRAL STRUCTURE)						48
Y	4P-8309	1	COVER GP-FLYWHEEL HOUSING						58
Y	4P-8305	1	COVER GP-FRONT HOUSING						61
Y	4P-8310	14	COVER GP-VALVE MECHANISM						65
Y	8N-0337	1	CRANKSHAFT GP						68
Y	115-5159	1	CYLINDER BLOCK GP						71
Y	206-1558	16	CYLINDER HEAD GP						77
Y	8N-7182	1	DAMPER GP						92
Y	1W-9553	1	DRIVE GP-ACCESSORY (LOWER, LH)						96
Y	7N-4871	1	DRIVE GP-ACCESSORY (UPPER, RH)						100
Y	7N-1875	1	FILLER GP-ENGINE OIL						168
Y	4W-6874	1	FILTER GP-ENGINE OIL						169
Y	2W-8772	1	FLYWHEEL GP						113
Y	7C-6366	1	GAUGE GP-OIL LEVEL (DIPSTICK)						180
Y	122-9281	1	GEAR GP-FRONT						116
Y	112-5674	1	GEAR GP-REAR						122
Y	4P-8307	1	HOUSING GP-FLYWHEEL						133
Y	7W-3724	1	HOUSING GP-FRONT						134
Y	4P-7489	1	IGNITION GP-GAS ENGINE						774
Y	4W-5450	1	LIFTING GP-ENGINE						136
Y	4W-5773	1	LINES GP-AFTERCOOLER AIR						468
Y	4P-8350	1	LINES GP-AIR (INLET MANIFOLD)						476
Y	9Y-1223	1	LINES GP-AIR (CARBURETOR INLET)						480
Y	2W-1441	1	LINES GP-AUXILIARY FRESH WATER						257
Y	134-3749	1	LINES GP-ENGINE OIL						192
Y	4W-5770	1	LINES GP-TURBOCHARGER OIL						202
Y	116-9850	1	LINES GP-TURBOCHARGER VENT						489
Y	9Y-9185	1	LINES GP-WATER (BYPASS)						302
Y	1N-4421	1	LINES GP-WATER (LOWER)						265
Y	4W-5771	1	LINES GP-WATER (TURBOCHARGER EXHAUST)						275
Y	4P-8354	1	LINES GP-WATER (UPPER)						271
Y	4W-5772	1	MANIFOLD GP-EXHAUST						490
Y	7C-4711	1	PAN GP-OIL						141
Y	6I-4610	16	PISTON & ROD GP						147
Y	1W-9554	1	PUMP GP-AUXILIARY WATER						347
Y	8N-6152	1	PUMP GP-ENGINE OIL (2-SECTION GEAR)						219
Y	2W-9729	1	PUMP GP-WATER						358
Y	7E-3404	1	REGULATOR GP-GAS PRESSURE						606
Y	7W-1427	1	REGULATOR GP-TEMPERATURE						367
Y	9Y-9090	1	REGULATOR GP-TEMPERATURE (OUTLET CONTROL)						371
Y	7W-3813	1	SEAL GP-CRANKSHAFT						159
Y	9Y-7034	1	TURBOCHARGER GP						525
Y	9Y-6061	1	VALVE GP-SOLENOID						981
Y	1W-8465	16	VALVE MECHANISM GP						162

ENGINE ARRANGEMENT

260-3664 ENGINE AR (contd.)

i02866375

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
			PLEASE USE THE GASKET KIT LINK IN SIS OR CONTACT YOUR LOCAL DEALER FOR THE LATEST GASKET KIT INFORMATION						
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

260-3665 ENGINE AR

S/N: ZBA1-UP

RATED SPEED 1200-RPM

SMCS-1000

i02866376

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	108-4886	1	ACTUATOR GP-GOVERNOR						547
Y	4P-8950	1	AFTERCOOLER GP-TREATED WATER						405
Y	9Y-5313	16	ARRESTOR GP-FLAME						429
Y	4P-8345	1	BREATHING GP (FUMES DISPOSAL)						165
Y	4P-8360	1	BREATHING GP						166
Y	4W-5947	1	BYPASS GP-EXHAUST						431
Y	4P-8352	1	CAMSHAFT GP						39
Y	9Y-3190	1	CARBURETOR GP						552
Y	7W-6372	1	CONNECTION GP-WATER						242
Y	4P-7316	1	CONTROL GP-CARBURETOR						573
Y	4P-8890	1	CONTROL GP-ENGINE ELECTRONIC						738
Y	4W-5891	1	COOLER GP-ENGINE OIL						249
Y	9Y-6123	1	COVER GP-CYLINDER BLOCK (CENTRAL STRUCTURE)						48
Y	4P-8305	1	COVER GP-FRONT HOUSING						61
Y	4P-8309	1	COVER GP-FLYWHEEL HOUSING						58
Y	4P-8310	12	COVER GP-VALVE MECHANISM						65
Y	8N-0337	1	CRANKSHAFT GP						68
Y	115-5159	1	CYLINDER BLOCK GP						71
Y	248-5030	16	CYLINDER HEAD GP						86
Y	8N-7182	1	DAMPER GP						92
Y	1W-9553	1	DRIVE GP-ACCESSORY (LOWER, LH)						96
Y	7N-4871	1	DRIVE GP-ACCESSORY (UPPER, RH)						100
Y	7N-1875	1	FILLER GP-ENGINE OIL						168
Y	4W-6874	1	FILTER GP-ENGINE OIL						169
Y	2W-8772	1	FLYWHEEL GP						113
Y	7E-6342	1	GAUGE GP-OIL LEVEL (DIPSTICK)						182
Y	122-9281	1	GEAR GP-FRONT						116
Y	121-4748	1	GEAR GP-REAR						124
Y	4P-8307	1	HOUSING GP-FLYWHEEL						133
Y	7W-3724	1	HOUSING GP-FRONT						134
Y	4P-7489	1	IGNITION GP-GAS ENGINE						774
Y	4W-5450	1	LIFTING GP-ENGINE						136
Y	4W-5773	1	LINES GP-AFTERCOOLER AIR						468
Y	4P-8350	1	LINES GP-AIR (INLET MANIFOLD)						476
Y	9Y-1223	1	LINES GP-AIR (CARBURETOR INLET)						480
Y	114-4358	1	LINES GP-ENGINE OIL						190
Y	4W-5770	1	LINES GP-TURBOCHARGER OIL						202
Y	116-9850	1	LINES GP-TURBOCHARGER VENT						489
Y	9Y-3193	1	LINES GP-WATER (AFTERCOOLER)						298
Y	9Y-9185	1	LINES GP-WATER (BYPASS)						302
Y	9Y-5801	1	LINES GP-WATER (LOWER)						300
Y	7E-4804	1	LINES GP-WATER (OIL COOLER)						288
			S/N: ZBA1-303						
Y	283-5641	1	LINES GP-WATER (OIL COOLER)						337
			S/N: ZBA304-UP						
Y	4W-5771	1	LINES GP-WATER (TURBOCHARGER EXHAUST)						275
Y	4P-8789	1	LINES GP-WATER (UPPER)						273
Y	108-9652	1	MANIFOLD GP-EXHAUST (WATER COOLED)						492
Y	7C-4711	1	PAN GP-OIL						141
Y	6I-4610	16	PISTON & ROD GP						147
Y	8N-6152	1	PUMP GP-ENGINE OIL (2-SECTION GEAR)						219
Y	9Y-8175	1	PUMP GP-AUXILIARY WATER						349
Y	2W-9729	1	PUMP GP-WATER						358
Y	2W-5710	1	REGULATOR GP-GAS PRESSURE						602
Y	7E-4802	1	REGULATOR GP-TEMPERATURE (AFTERCOOLER)						364
			S/N: ZBA1-204						

ENGINE ARRANGEMENT

260-3665 ENGINE AR (contd.)

i02866376

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	270-3898	1	REGULATOR GP-TEMPERATURE (AFTERCOOLER)						374
			S/N: ZBA205-UP						
Y	9Y-7035	1	REGULATOR GP-TEMPERATURE (OUTLET CONTROL)						369
Y	7W-3813	1	SEAL GP-CRANKSHAFT						159
Y	9Y-7034	1	TURBOCHARGER GP						525
Y	150-3501	1	VALVE GP-SOLENOID						988
Y	1W-8465	16	VALVE MECHANISM GP						162
PLEASE USE THE GASKET KIT LINK IN SIS OR CONTACT YOUR LOCAL DEALER FOR THE LATEST GASKET KIT INFORMATION									
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

260-3666 ENGINE AR

S/N: ZBA1-UP

RATED SPEED 1500-RPM

SMCS-1000

i02866377

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	108-4886	1	ACTUATOR GP-GOVERNOR						547
Y	4P-8950	1	AFTERCOOLER GP-TREATED WATER						405
Y	9Y-5313	16	ARRESTOR GP-FLAME						429
Y	4P-8312	2	BREATHING GP						164
Y	4W-5947	1	BYPASS GP-EXHAUST						431
Y	4P-8352	1	CAMSHAFT GP						39
Y	9Y-3190	1	CARBURETOR GP						552
Y	7W-6372	1	CONNECTION GP-WATER						242
Y	4P-7316	1	CONTROL GP-CARBURETOR						573
Y	4P-8890	1	CONTROL GP-ENGINE ELECTRONIC						738
Y	4W-5891	1	COOLER GP-ENGINE OIL						249
Y	9Y-6123	1	COVER GP-CYLINDER BLOCK (CENTRAL STRUCTURE)						48
Y	4P-8309	1	COVER GP-FLYWHEEL HOUSING						58
Y	4P-8305	1	COVER GP-FRONT HOUSING						61
Y	4P-8310	14	COVER GP-VALVE MECHANISM						65
Y	8N-0337	1	CRANKSHAFT GP						68
Y	115-5159	1	CYLINDER BLOCK GP						71
Y	206-1558	16	CYLINDER HEAD GP						77
Y	8N-7182	1	DAMPER GP						92
Y	7E-7647	1	DRIVE GP-ACCESSORY (LOWER, LH)						98
Y	7N-4871	1	DRIVE GP-ACCESSORY (UPPER, RH)						100
Y	7N-1875	1	FILLER GP-ENGINE OIL						168
Y	4W-6874	1	FILTER GP-ENGINE OIL						169
Y	2W-8772	1	FLYWHEEL GP						113
Y	7C-6366	1	GAUGE GP-OIL LEVEL (DIPSTICK)						180
Y	155-8502	1	GEAR GP-FRONT						118
Y	112-5674	1	GEAR GP-REAR						122
Y	4P-8307	1	HOUSING GP-FLYWHEEL						133
Y	7W-3724	1	HOUSING GP-FRONT						134
Y	4P-7489	1	IGNITION GP-GAS ENGINE						774
Y	4W-5450	1	LIFTING GP-ENGINE						136
Y	7E-6705	1	LINES GP-AFTERCOOLER AIR						469
Y	4P-8350	1	LINES GP-AIR (INLET MANIFOLD)						476
Y	9Y-1223	1	LINES GP-AIR (CARBURETOR INLET)						480
Y	2W-1441	1	LINES GP-AUXILIARY FRESH WATER						257
Y	134-3749	1	LINES GP-ENGINE OIL						192
Y	7E-4762	1	LINES GP-TURBOCHARGER OIL						203
Y	116-9850	1	LINES GP-TURBOCHARGER VENT						489
Y	9Y-9185	1	LINES GP-WATER (BYPASS)						302
Y	1N-4421	1	LINES GP-WATER (LOWER)						265
Y	7E-6767	1	LINES GP-WATER (TURBOCHARGER)						294
Y	4P-8354	1	LINES GP-WATER (UPPER)						271
Y	4W-5772	1	MANIFOLD GP-EXHAUST						490
Y	7C-4711	1	PAN GP-OIL						141
Y	126-9496	16	PISTON & ROD GP						149
Y	1W-9554	1	PUMP GP-AUXILIARY WATER						347
Y	8N-6152	1	PUMP GP-ENGINE OIL (2-SECTION GEAR)						219
Y	2W-9729	1	PUMP GP-WATER						358
Y	7E-3404	1	REGULATOR GP-GAS PRESSURE						606
Y	7W-1427	1	REGULATOR GP-TEMPERATURE						367
Y	9Y-9090	1	REGULATOR GP-TEMPERATURE (OUTLET CONTROL)						371
Y	7W-3813	1	SEAL GP-CRANKSHAFT						159
Y	6I-3959	1	TURBOCHARGER GP						521
Y	9Y-6061	1	VALVE GP-SOLENOID						981
Y	1W-8465	16	VALVE MECHANISM GP						162

ENGINE ARRANGEMENT

260-3666 ENGINE AR (contd.)

i02866377

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
			PLEASE USE THE GASKET KIT LINK IN SIS OR CONTACT YOUR LOCAL DEALER FOR THE LATEST GASKET KIT INFORMATION						
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

260-3667 ENGINE AR

S/N: ZBA1-UP

RATED SPEED 1500-RPM

SMCS - 1000

i02866378

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	108-4886	1	ACTUATOR GP-GOVERNOR						547
Y	4P-8950	1	AFTERCOOLER GP-TREATED WATER						405
Y	9Y-5313	16	ARRESTOR GP-FLAME						429
Y	4P-8312	2	BREATHING GP						164
Y	4W-5947	1	BYPASS GP-EXHAUST						431
Y	4P-8352	1	CAMSHAFT GP						39
Y	9Y-3190	1	CARBURETOR GP						552
Y	7W-6372	1	CONNECTION GP-WATER						242
Y	4P-7316	1	CONTROL GP-CARBURETOR						573
Y	4P-8890	1	CONTROL GP-ENGINE ELECTRONIC						738
Y	4W-5891	1	COOLER GP-ENGINE OIL						249
Y	9Y-6123	1	COVER GP-CYLINDER BLOCK (CENTRAL STRUCTURE)						48
Y	4P-8309	1	COVER GP-FLYWHEEL HOUSING						58
Y	4P-8305	1	COVER GP-FRONT HOUSING						61
Y	4P-8310	14	COVER GP-VALVE MECHANISM						65
Y	8N-0337	1	CRANKSHAFT GP						68
Y	115-5159	1	CYLINDER BLOCK GP						71
Y	206-1558	16	CYLINDER HEAD GP						77
Y	8N-7182	1	DAMPER GP						92
Y	7E-7647	1	DRIVE GP-ACCESSORY (LOWER, LH)						98
Y	7N-4871	1	DRIVE GP-ACCESSORY (UPPER, RH)						100
Y	7N-1875	1	FILLER GP-ENGINE OIL						168
Y	4W-6874	1	FILTER GP-ENGINE OIL						169
Y	2W-8772	1	FLYWHEEL GP						113
Y	7C-6366	1	GAUGE GP-OIL LEVEL (DIPSTICK)						180
Y	155-8502	1	GEAR GP-FRONT						118
Y	112-5674	1	GEAR GP-REAR						122
Y	4P-8307	1	HOUSING GP-FLYWHEEL						133
Y	7W-3724	1	HOUSING GP-FRONT						134
Y	4P-7489	1	IGNITION GP-GAS ENGINE						774
Y	4W-5450	1	LIFTING GP-ENGINE						136
Y	7E-6705	1	LINES GP-AFTERCOOLER AIR						469
Y	9Y-1223	1	LINES GP-AIR (CARBURETOR INLET)						480
Y	4P-8350	1	LINES GP-AIR (INLET MANIFOLD)						476
Y	2W-1441	1	LINES GP-AUXILIARY FRESH WATER						257
Y	134-3749	1	LINES GP-ENGINE OIL						192
Y	7E-4762	1	LINES GP-TURBOCHARGER OIL						203
Y	116-9850	1	LINES GP-TURBOCHARGER VENT						489
Y	9Y-9185	1	LINES GP-WATER (BYPASS)						302
Y	1N-4421	1	LINES GP-WATER (LOWER)						265
Y	7E-6767	1	LINES GP-WATER (TURBOCHARGER)						294
Y	4P-8354	1	LINES GP-WATER (UPPER)						271
Y	4W-5772	1	MANIFOLD GP-EXHAUST						490
Y	7C-4711	1	PAN GP-OIL						141
Y	133-9376	16	PISTON & ROD GP						151
Y	1W-9554	1	PUMP GP-AUXILIARY WATER						347
Y	8N-6152	1	PUMP GP-ENGINE OIL (2-SECTION GEAR)						219
Y	2W-9729	1	PUMP GP-WATER						358
Y	7E-3404	1	REGULATOR GP-GAS PRESSURE						606
Y	7W-1427	1	REGULATOR GP-TEMPERATURE						367
Y	9Y-9090	1	REGULATOR GP-TEMPERATURE (OUTLET CONTROL)						371
Y	7W-3813	1	SEAL GP-CRANKSHAFT						159
Y	113-1154	1	TURBOCHARGER GP						530
Y	9Y-6061	1	VALVE GP-SOLENOID						981
Y	1W-8465	16	VALVE MECHANISM GP						162

ENGINE ARRANGEMENT

260-3667 ENGINE AR (contd.)

i02866378

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
			PLEASE USE THE GASKET KIT LINK IN SIS OR CONTACT YOUR LOCAL DEALER FOR THE LATEST GASKET KIT INFORMATION						
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

260-3669 ENGINE AR

S/N: ZBA1-UP

RATED SPEED 1200-RPM

SMCS-1000

i02866379

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1W-8887	1	ACTUATOR GP-GOVERNOR						547
Y	4P-8950	1	AFTERCOOLER GP-TREATED WATER						405
Y	9Y-5313	16	ARRESTOR GP-FLAME						429
Y	4P-8312	2	BREATHING GP						164
Y	4W-5947	1	BYPASS GP-EXHAUST						431
Y	4P-8352	1	CAMSHAFT GP						39
Y	9Y-3190	1	CARBURETOR GP						552
Y	7W-6372	1	CONNECTION GP-WATER						242
Y	4P-6942	1	CONTROL GP-CARBURETOR						571
Y	4P-8890	1	CONTROL GP-ENGINE ELECTRONIC						738
Y	4W-5891	1	COOLER GP-ENGINE OIL						249
Y	9Y-6123	1	COVER GP-CYLINDER BLOCK (CENTRAL STRUCTURE)						48
Y	4P-8309	1	COVER GP-FLYWHEEL HOUSING						58
Y	4P-8304	1	COVER GP-FRONT HOUSING						60
Y	4P-8310	14	COVER GP-VALVE MECHANISM						65
Y	8N-0337	1	CRANKSHAFT GP						68
Y	115-5159	1	CYLINDER BLOCK GP						71
Y	206-1558	16	CYLINDER HEAD GP						77
Y	8N-7182	1	DAMPER GP						92
Y	1W-9553	1	DRIVE GP-ACCESSORY (LOWER, LH)						96
Y	7N-4871	1	DRIVE GP-ACCESSORY (UPPER, RH)						100
Y	7N-1875	1	FILLER GP-ENGINE OIL						168
Y	4W-6874	1	FILTER GP-ENGINE OIL						169
Y	2W-8772	1	FLYWHEEL GP						113
Y	7C-6366	1	GAUGE GP-OIL LEVEL (DIPSTICK)						180
Y	122-9281	1	GEAR GP-FRONT						116
Y	112-5674	1	GEAR GP-REAR						122
Y	4P-8307	1	HOUSING GP-FLYWHEEL						133
Y	7W-3724	1	HOUSING GP-FRONT						134
Y	4P-7489	1	IGNITION GP-GAS ENGINE						774
Y	4W-5450	1	LIFTING GP-ENGINE						136
Y	7E-6705	1	LINES GP-AFTERCOOLER AIR						469
Y	9Y-1223	1	LINES GP-AIR (CARBURETOR INLET)						480
Y	4P-8350	1	LINES GP-AIR (INLET MANIFOLD)						476
Y	2W-1441	1	LINES GP-AUXILIARY FRESH WATER						257
Y	134-3749	1	LINES GP-ENGINE OIL						192
Y	7E-4762	1	LINES GP-TURBOCHARGER OIL						203
Y	116-9850	1	LINES GP-TURBOCHARGER VENT						489
Y	9Y-9185	1	LINES GP-WATER (BYPASS)						302
Y	1N-4421	1	LINES GP-WATER (LOWER)						265
Y	7E-6767	1	LINES GP-WATER (TURBOCHARGER)						294
Y	4P-8354	1	LINES GP-WATER (UPPER)						271
Y	4W-5772	1	MANIFOLD GP-EXHAUST						490
Y	7C-4711	1	PAN GP-OIL						141
Y	102-2256	16	PISTON & ROD GP						148
Y	1W-9554	1	PUMP GP-AUXILIARY WATER						347
Y	8N-6152	1	PUMP GP-ENGINE OIL (2-SECTION GEAR)						219
Y	2W-9729	1	PUMP GP-WATER						358
Y	7E-3404	1	REGULATOR GP-GAS PRESSURE						606
Y	7W-1427	1	REGULATOR GP-TEMPERATURE						367
Y	9Y-9090	1	REGULATOR GP-TEMPERATURE (OUTLET CONTROL)						371
Y	7W-3813	1	SEAL GP-CRANKSHAFT						159
Y	4P-4606	1	TURBOCHARGER GP						519
Y	9Y-6061	1	VALVE GP-SOLENOID						981
Y	1W-8465	16	VALVE MECHANISM GP						162

ENGINE ARRANGEMENT

260-3669 ENGINE AR (contd.)

i02866379

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
			PLEASE USE THE GASKET KIT LINK IN SIS OR CONTACT YOUR LOCAL DEALER FOR THE LATEST GASKET KIT INFORMATION						
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

260-3672 ENGINE AR

S/N: ZBA1-UP

RATED SPEED 1500-RPM

SMCS-1000

i02866380

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	168-3640	1	AFTERCOOLER GP-WATER						408
Y	134-3805	16	ARRESTOR GP-FLAME						430
Y	4P-8312	2	BREATHING GP						164
Y	4W-5947	1	BYPASS GP-EXHAUST						431
Y	4P-8352	1	CAMSHAFT GP						39
Y	121-7725	1	CARBURETOR GP						555
Y	7W-6372	1	CONNECTION GP-WATER						242
Y	141-1484	1	CONTROL GP-ENGINE ELECTRONIC						742
Y	4W-5891	1	COOLER GP-ENGINE OIL						249
Y	6I-1392	1	COVER GP-ACCESSORY DRIVE						47
Y	135-6951	1	COVER GP-CYLINDER BLOCK						50
Y	4P-8309	1	COVER GP-FLYWHEEL HOUSING						58
Y	4P-8304	1	COVER GP-FRONT HOUSING						60
Y	4P-8310	14	COVER GP-VALVE MECHANISM						65
Y	8N-0337	1	CRANKSHAFT GP						68
Y	115-5159	1	CYLINDER BLOCK GP						71
Y	206-1562	16	CYLINDER HEAD GP						81
Y	8N-7182	1	DAMPER GP						92
Y	7E-7647	1	DRIVE GP-ACCESSORY (LOWER, LH)						98
Y	7N-1875	1	FILLER GP-ENGINE OIL						168
Y	4W-6874	1	FILTER GP-ENGINE OIL						169
Y	2W-8772	1	FLYWHEEL GP						113
Y	7C-6366	1	GAUGE GP-OIL LEVEL (DIPSTICK)						180
Y	155-8502	1	GEAR GP-FRONT						118
Y	112-5674	1	GEAR GP-REAR						122
Y	4P-8307	1	HOUSING GP-FLYWHEEL						133
Y	7W-3724	1	HOUSING GP-FRONT						134
Y	141-1482	1	IGNITION GP-GAS ENGINE						781
Y	4W-5450	1	LIFTING GP-ENGINE						136
Y	122-8347	1	LINES GP-AFTERCOOLER AIR (2-STAGE)						471
Y	201-0863	1	LINES GP-AIR (INLET MANIFOLD)						485
Y	183-7603	1	LINES GP-AUXILIARY FRESH WATER						263
Y	134-3749	1	LINES GP-ENGINE OIL						192
Y	132-5543	1	LINES GP-GAS						594
Y	121-7732	1	LINES GP-TURBOCHARGER OIL						204
Y	9Y-9185	1	LINES GP-WATER (BYPASS)						302
Y	1N-4421	1	LINES GP-WATER (LOWER)						265
Y	121-7727	1	LINES GP-WATER (TURBOCHARGER)						306
Y	121-7534	1	LINES GP-WATER (UPPER)						304
Y	138-6257	1	MANIFOLD GP-EXHAUST						494
Y	7C-4711	1	PAN GP-OIL						141
Y	134-3803	16	PISTON & ROD GP						152
Y	1W-9554	1	PUMP GP-AUXILIARY WATER						347
Y	8N-6152	1	PUMP GP-ENGINE OIL (2-SECTION GEAR)						219
Y	2W-9729	1	PUMP GP-WATER						358
Y	7E-8190	1	REGULATOR GP-GAS PRESSURE						608
Y	9Y-9090	1	REGULATOR GP-TEMPERATURE (OUTLET CONTROL)						371
Y	7W-1427	1	REGULATOR GP-TEMPERATURE						367
Y	7W-3813	1	SEAL GP-CRANKSHAFT						159
Y	223-3942	1	SENSOR GP-SPEED (ENGINE)						839
Y	201-1292	1	SHIELD GP-EXHAUST						512
Y	201-0860	1	THROTTLE GP						622
Y	121-7549	1	TURBOCHARGER GP						532
Y	1W-8465	16	VALVE MECHANISM GP						162

ENGINE ARRANGEMENT

260-3672 ENGINE AR (contd.)

i02866380

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
			PLEASE USE THE GASKET KIT LINK IN SIS OR CONTACT YOUR LOCAL DEALER FOR THE LATEST GASKET KIT INFORMATION						
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

260-3676 ENGINE AR

S/N: ZBA1-UP

RATED SPEED 1500-RPM

SMCS-1000

i02866381

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	168-3640	1	AFTERCOOLER GP-WATER						408
Y	134-3805	16	ARRESTOR GP-FLAME						430
Y	4P-8312	2	BREATHING GP						164
Y	4W-5947	1	BYPASS GP-EXHAUST						431
Y	4P-8352	1	CAMSHAFT GP						39
Y	121-7725	1	CARBURETOR GP						555
Y	7W-6372	1	CONNECTION GP-WATER						242
Y	141-1484	1	CONTROL GP-ENGINE ELECTRONIC						742
Y	4W-5891	1	COOLER GP-ENGINE OIL						249
Y	6I-1392	1	COVER GP-ACCESSORY DRIVE						47
Y	135-6951	1	COVER GP-CYLINDER BLOCK						50
Y	4P-8309	1	COVER GP-FLYWHEEL HOUSING						58
Y	4P-8304	1	COVER GP-FRONT HOUSING						60
Y	4P-8310	14	COVER GP-VALVE MECHANISM						65
Y	8N-0337	1	CRANKSHAFT GP						68
Y	115-5159	1	CYLINDER BLOCK GP						71
Y	206-1562	16	CYLINDER HEAD GP						81
Y	8N-7182	1	DAMPER GP						92
Y	7E-7647	1	DRIVE GP-ACCESSORY (LOWER, LH)						98
Y	7N-1875	1	FILLER GP-ENGINE OIL						168
Y	4W-6874	1	FILTER GP-ENGINE OIL						169
Y	2W-8772	1	FLYWHEEL GP						113
Y	7C-6366	1	GAUGE GP-OIL LEVEL (DIPSTICK)						180
Y	155-8502	1	GEAR GP-FRONT						118
Y	112-5674	1	GEAR GP-REAR						122
Y	4P-8307	1	HOUSING GP-FLYWHEEL						133
Y	7W-3724	1	HOUSING GP-FRONT						134
Y	141-1482	1	IGNITION GP-GAS ENGINE						781
Y	4W-5450	1	LIFTING GP-ENGINE						136
Y	122-8347	1	LINES GP-AFTERCOOLER AIR (2-STAGE)						471
Y	201-0863	1	LINES GP-AIR (INLET MANIFOLD)						485
Y	183-7603	1	LINES GP-AUXILIARY FRESH WATER						263
Y	134-3749	1	LINES GP-ENGINE OIL						192
Y	132-5543	1	LINES GP-GAS						594
Y	121-7732	1	LINES GP-TURBOCHARGER OIL						204
Y	9Y-9185	1	LINES GP-WATER (BYPASS)						302
Y	1N-4421	1	LINES GP-WATER (LOWER)						265
Y	121-7727	1	LINES GP-WATER (TURBOCHARGER)						306
Y	121-7534	1	LINES GP-WATER (UPPER)						304
Y	138-6257	1	MANIFOLD GP-EXHAUST						494
Y	7C-4711	1	PAN GP-OIL						141
Y	126-9496	16	PISTON & ROD GP						149
Y	1W-9554	1	PUMP GP-AUXILIARY WATER						347
Y	8N-6152	1	PUMP GP-ENGINE OIL (2-SECTION GEAR)						219
Y	2W-9729	1	PUMP GP-WATER						358
Y	7E-8190	1	REGULATOR GP-GAS PRESSURE						608
Y	7W-1427	1	REGULATOR GP-TEMPERATURE						367
Y	9Y-9090	1	REGULATOR GP-TEMPERATURE (OUTLET CONTROL)						371
Y	7W-3813	1	SEAL GP-CRANKSHAFT						159
Y	223-3942	1	SENSOR GP-SPEED						839
Y	201-1292	1	SHIELD GP-EXHAUST						512
Y	201-0860	1	THROTTLE GP						622
Y	121-7549	1	TURBOCHARGER GP						532
Y	1W-8465	16	VALVE MECHANISM GP						162

ENGINE ARRANGEMENT

260-3676 ENGINE AR (contd.)

i02866381

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
			PLEASE USE THE GASKET KIT LINK IN SIS OR CONTACT YOUR LOCAL DEALER FOR THE LATEST GASKET KIT INFORMATION						
Y- SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

260-3678 ENGINE AR

S/N: ZBA1-UP

RATED SPEED 1500-RPM

SMCS-1000

i02866382

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	115-1577	1	AFTERCOOLER GP-TREATED WATER						406
Y	4P-8345	1	BREATHING GP (FUMES DISPOSAL)						165
Y	4P-8360	1	BREATHING GP						166
Y	4W-5947	1	BYPASS GP-EXHAUST						431
Y	4P-8352	1	CAMSHAFT GP						39
Y	105-2258	1	CARBURETOR GP						553
Y	7W-6372	1	CONNECTION GP-WATER						242
Y	4P-7316	1	CONTROL GP-CARBURETOR						573
Y	104-4221	1	CONTROL GP-ENGINE ELECTRONIC						739
Y	4W-5891	1	COOLER GP-ENGINE OIL						249
Y	9Y-6123	1	COVER GP-CYLINDER BLOCK (CENTRAL STRUCTURE)						48
Y	4P-8309	1	COVER GP-FLYWHEEL HOUSING						58
Y	4P-8305	1	COVER GP-FRONT HOUSING						61
Y	4P-8310	12	COVER GP-VALVE MECHANISM						65
Y	8N-0337	1	CRANKSHAFT GP						68
Y	115-5159	1	CYLINDER BLOCK GP						71
Y	248-5030	16	CYLINDER HEAD GP						86
Y	8N-7182	1	DAMPER GP						92
Y	7E-7647	1	DRIVE GP-ACCESSORY (LOWER, LH)						98
Y	7N-4871	1	DRIVE GP-ACCESSORY (UPPER, RH)						100
Y	7N-1875	1	FILLER GP-ENGINE OIL						168
Y	4W-6874	1	FILTER GP-ENGINE OIL						169
Y	2W-8772	1	FLYWHEEL GP						113
Y	7E-6342	1	GAUGE GP-OIL LEVEL (DIPSTICK)						182
Y	155-8502	1	GEAR GP-FRONT						118
Y	121-4748	1	GEAR GP-REAR						124
Y	118-7591	1	GOVERNOR GP-ELECTRONIC						591
Y	4P-8307	1	HOUSING GP-FLYWHEEL						133
Y	7W-3724	1	HOUSING GP-FRONT						134
Y	4P-7489	1	IGNITION GP-GAS ENGINE						774
Y	4W-5450	1	LIFTING GP-ENGINE						136
Y	7E-6705	1	LINES GP-AFTERCOOLER AIR						469
Y	9Y-1223	1	LINES GP-AIR (CARBURETOR INLET)						480
Y	4P-8350	1	LINES GP-AIR (INLET MANIFOLD)						476
Y	114-4358	1	LINES GP-ENGINE OIL						190
Y	184-1574	1	LINES GP-GAS						598
Y	7E-4762	1	LINES GP-TURBOCHARGER OIL						203
Y	116-9850	1	LINES GP-TURBOCHARGER VENT						489
Y	9Y-3193	1	LINES GP-WATER (AFTERCOOLER)						298
Y	9Y-9185	1	LINES GP-WATER (BYPASS)						302
Y	9Y-5801	1	LINES GP-WATER (LOWER)						300
Y	7E-4804	1	LINES GP-WATER (OIL COOLER)						288
			S/N: ZBA1-204						
Y	283-5641	1	LINES GP-WATER (OIL COOLER)						337
			S/N: ZBA205-UP						
Y	7E-6767	1	LINES GP-WATER (TURBOCHARGER)						294
Y	4P-8789	1	LINES GP-WATER (UPPER)						273
Y	108-9652	1	MANIFOLD GP-EXHAUST (WATER COOLED)						492
Y	7C-4711	1	PAN GP-OIL						141
Y	126-9496	16	PISTON & ROD GP						149
Y	8N-6152	1	PUMP GP-ENGINE OIL (2-SECTION GEAR)						219
Y	9Y-8175	1	PUMP GP-AUXILIARY WATER						349
Y	2W-9729	1	PUMP GP-WATER						358
Y	7E-4802	1	REGULATOR GP-TEMPERATURE (AFTERCOOLER)						364
			S/N: ZBA1-204						

ENGINE ARRANGEMENT

260-3678 ENGINE AR (contd.)

i02866382

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	270-3898	1	REGULATOR GP-TEMPERATURE (AFTERCOOLER)						374
			S/N: ZBA205-UP						
Y	9Y-7035	1	REGULATOR GP-TEMPERATURE (OUTLET CONTROL)						369
Y	7W-3813	1	SEAL GP-CRANKSHAFT						159
Y	7E-9202	1	THROTTLE GP						620
Y	7E-6708	1	TURBOCHARGER GP						524
Y	1W-8465	16	VALVE MECHANISM GP						162
	102-2674	16	ARRESTOR AS						
	110-7872	1	REGULATOR GP-GAS PRESSURE						
	174-5802		KIT-REPAIR (GAS PRESSURE REGULATOR)						
			(INCLUDES DIAPHRAGMS, SEALS, PLATES, SPRING, SCREW, COVER, AND SPINDLE)						
			PLEASE USE THE GASKET KIT LINK IN SIS OR CONTACT YOUR LOCAL DEALER FOR THE LATEST GASKET KIT INFORMATION						

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

260-3680 ENGINE AR

S/N: ZBA1-UP

RATED SPEED 1500-RPM

SMCS - 1000

i02866383

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	154-3855	1	ACTUATOR GP-GOVERNOR						547
Y	4P-8950	1	AFTERCOOLER GP-TREATED WATER						405
Y	9Y-5313	16	ARRESTOR GP-FLAME						429
Y	4P-8312	2	BREATHING GP						164
Y	4W-5947	1	BYPASS GP-EXHAUST						431
Y	4P-8352	1	CAMSHAFT GP						39
Y	4P-9091	1	CARBURETOR GP						551
Y	7W-6372	1	CONNECTION GP-WATER						242
Y	4P-7316	1	CONTROL GP-CARBURETOR						573
Y	141-1484	1	CONTROL GP-ENGINE ELECTRONIC						742
Y	4W-5891	1	COOLER GP-ENGINE OIL						249
Y	9Y-6123	1	COVER GP-CYLINDER BLOCK (CENTRAL STRUCTURE)						48
Y	4P-8309	1	COVER GP-FLYWHEEL HOUSING						58
Y	4P-8305	1	COVER GP-FRONT HOUSING						61
Y	4P-8310	14	COVER GP-VALVE MECHANISM						65
Y	8N-0337	1	CRANKSHAFT GP						68
Y	115-5159	1	CYLINDER BLOCK GP						71
Y	206-1558	16	CYLINDER HEAD GP						77
Y	8N-7182	1	DAMPER GP						92
Y	7E-7647	1	DRIVE GP-ACCESSORY (LOWER, LH)						98
Y	7N-4871	1	DRIVE GP-ACCESSORY (UPPER, RH)						100
Y	7N-1875	1	FILLER GP-ENGINE OIL						168
Y	4W-6874	1	FILTER GP-ENGINE OIL						169
Y	2W-8772	1	FLYWHEEL GP						113
Y	7C-6366	1	GAUGE GP-OIL LEVEL (DIPSTICK)						180
Y	155-8502	1	GEAR GP-FRONT						118
Y	112-5674	1	GEAR GP-REAR						122
Y	4P-8307	1	HOUSING GP-FLYWHEEL						133
Y	7W-3724	1	HOUSING GP-FRONT						134
Y	141-1482	1	IGNITION GP-GAS ENGINE						781
Y	4W-5450	1	LIFTING GP-ENGINE						136
Y	7E-6705	1	LINES GP-AFTERCOOLER AIR						469
Y	9Y-1223	1	LINES GP-AIR (CARBURETOR INLET)						480
Y	4P-8350	1	LINES GP-AIR (INLET MANIFOLD)						476
Y	2W-1441	1	LINES GP-AUXILIARY FRESH WATER						257
Y	134-3749	1	LINES GP-ENGINE OIL						192
Y	7E-4762	1	LINES GP-TURBOCHARGER OIL						203
Y	116-9850	1	LINES GP-TURBOCHARGER VENT						489
Y	9Y-9185	1	LINES GP-WATER (BYPASS)						302
Y	1N-4421	1	LINES GP-WATER (LOWER)						265
Y	7E-6767	1	LINES GP-WATER (TURBOCHARGER)						294
Y	4P-8354	1	LINES GP-WATER (UPPER)						271
Y	4W-5772	1	MANIFOLD GP-EXHAUST						490
Y	7C-4711	1	PAN GP-OIL						141
Y	126-9496	16	PISTON & ROD GP						149
Y	1W-9554	1	PUMP GP-AUXILIARY WATER						347
Y	8N-6152	1	PUMP GP-ENGINE OIL (2-SECTION GEAR)						219
Y	2W-9729	1	PUMP GP-WATER						358
Y	4P-9090	1	REGULATOR GP-GAS PRESSURE						604
Y	9Y-9090	1	REGULATOR GP-TEMPERATURE (OUTLET CONTROL)						371
Y	7W-1427	1	REGULATOR GP-TEMPERATURE						367
Y	7W-3813	1	SEAL GP-CRANKSHAFT						159
Y	7E-9202	1	THROTTLE GP						620
Y	7E-6708	1	TURBOCHARGER GP						524
Y	4P-9596	1	VALVE GP-SOLENOID (FUEL SHUTOFF)						980
Y	1W-8465	16	VALVE MECHANISM GP						162

ENGINE ARRANGEMENT

260-3680 ENGINE AR (contd.)

i02866383

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	

PLEASE USE THE GASKET KIT LINK IN SIS OR CONTACT
YOUR LOCAL DEALER FOR THE LATEST GASKET KIT
INFORMATION

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

260-3681 ENGINE AR

S/N: ZBA1-UP

RATED SPEED 1500-RPM

SMCS - 1000

i02866384

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	154-3855	1	ACTUATOR GP-GOVERNOR						547
Y	4P-8950	1	AFTERCOOLER GP-TREATED WATER						405
Y	9Y-5313	16	ARRESTOR GP-FLAME						429
Y	4P-8312	2	BREATHING GP						164
Y	4W-5947	1	BYPASS GP-EXHAUST						431
Y	4P-8352	1	CAMSHAFT GP						39
Y	4P-9091	1	CARBURETOR GP						551
Y	7W-6372	1	CONNECTION GP-WATER						242
Y	4P-7316	1	CONTROL GP-CARBURETOR						573
Y	141-1484	1	CONTROL GP-ENGINE ELECTRONIC						742
Y	4W-5891	1	COOLER GP-ENGINE OIL						249
Y	9Y-6123	1	COVER GP-CYLINDER BLOCK (CENTRAL STRUCTURE)						48
Y	4P-8309	1	COVER GP-FLYWHEEL HOUSING						58
Y	4P-8305	1	COVER GP-FRONT HOUSING						61
Y	4P-8310	14	COVER GP-VALVE MECHANISM						65
Y	8N-0337	1	CRANKSHAFT GP						68
Y	115-5159	1	CYLINDER BLOCK GP						71
Y	206-1558	16	CYLINDER HEAD GP						77
Y	8N-7182	1	DAMPER GP						92
Y	7E-7647	1	DRIVE GP-ACCESSORY (LOWER, LH)						98
Y	7N-4871	1	DRIVE GP-ACCESSORY (UPPER, RH)						100
Y	7N-1875	1	FILLER GP-ENGINE OIL						168
Y	4W-6874	1	FILTER GP-ENGINE OIL						169
Y	2W-8772	1	FLYWHEEL GP						113
Y	7C-6366	1	GAUGE GP-OIL LEVEL (DIPSTICK)						180
Y	155-8502	1	GEAR GP-FRONT						118
Y	112-5674	1	GEAR GP-REAR						122
Y	4P-8307	1	HOUSING GP-FLYWHEEL						133
Y	7W-3724	1	HOUSING GP-FRONT						134
Y	141-1482	1	IGNITION GP-GAS ENGINE						781
Y	4W-5450	1	LIFTING GP-ENGINE						136
Y	7E-6705	1	LINES GP-AFTERCOOLER AIR						469
Y	9Y-1223	1	LINES GP-AIR (CARBURETOR INLET)						480
Y	4P-8350	1	LINES GP-AIR (INLET MANIFOLD)						476
Y	2W-1441	1	LINES GP-AUXILIARY FRESH WATER						257
Y	134-3749	1	LINES GP-ENGINE OIL						192
Y	7E-4762	1	LINES GP-TURBOCHARGER OIL						203
Y	116-9850	1	LINES GP-TURBOCHARGER VENT						489
Y	9Y-9185	1	LINES GP-WATER (BYPASS)						302
Y	1N-4421	1	LINES GP-WATER (LOWER)						265
Y	7E-6767	1	LINES GP-WATER (TURBOCHARGER)						294
Y	4P-8354	1	LINES GP-WATER (UPPER)						271
Y	4W-5772	1	MANIFOLD GP-EXHAUST						490
Y	7C-4711	1	PAN GP-OIL						141
Y	133-9376	16	PISTON & ROD GP						151
Y	1W-9554	1	PUMP GP-AUXILIARY WATER						347
Y	8N-6152	1	PUMP GP-ENGINE OIL (2-SECTION GEAR)						219
Y	2W-9729	1	PUMP GP-WATER						358
Y	4P-9090	1	REGULATOR GP-GAS PRESSURE						604
Y	7W-1427	1	REGULATOR GP-TEMPERATURE						367
Y	9Y-9090	1	REGULATOR GP-TEMPERATURE (OUTLET CONTROL)						371
Y	7W-3813	1	SEAL GP-CRANKSHAFT						159
Y	7E-9202	1	THROTTLE GP						620
Y	113-1154	1	TURBOCHARGER GP						530
Y	4P-9596	1	VALVE GP-SOLENOID (FUEL SHUTOFF)						980
Y	1W-8465	16	VALVE MECHANISM GP						162

ENGINE ARRANGEMENT

260-3681 ENGINE AR (contd.)

i02866384

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	

PLEASE USE THE GASKET KIT LINK IN SIS OR CONTACT
YOUR LOCAL DEALER FOR THE LATEST GASKET KIT
INFORMATION

Y - SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

260-3682 ENGINE AR

S/N: ZBA1-UP

RATED SPEED 1800-RPM

SMCS-1000

i02866385

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	154-3855	1	ACTUATOR GP-GOVERNOR						547
Y	119-1660	1	AFTERCOOLER GP-TREATED WATER						407
Y	9Y-5313	16	ARRESTOR GP-FLAME						429
Y	4P-8312	2	BREATHING GP						164
Y	4W-5947	1	BYPASS GP-EXHAUST						431
Y	4P-8352	1	CAMSHAFT GP						39
Y	4P-9091	1	CARBURETOR GP						551
Y	7W-6372	1	CONNECTION GP-WATER						242
Y	4P-7316	1	CONTROL GP-CARBURETOR						573
Y	141-1484	1	CONTROL GP-ENGINE ELECTRONIC						742
Y	4W-5891	1	COOLER GP-ENGINE OIL						249
Y	9Y-6123	1	COVER GP-CYLINDER BLOCK (CENTRAL STRUCTURE)						48
Y	4P-8309	1	COVER GP-FLYWHEEL HOUSING						58
Y	4P-8305	1	COVER GP-FRONT HOUSING						61
Y	4P-8310	14	COVER GP-VALVE MECHANISM						65
Y	8N-0337	1	CRANKSHAFT GP						68
Y	115-5159	1	CYLINDER BLOCK GP						71
Y	206-1558	16	CYLINDER HEAD GP						77
Y	8N-7182	1	DAMPER GP						92
Y	7E-7647	1	DRIVE GP-ACCESSORY (LOWER, LH)						98
Y	7N-4871	1	DRIVE GP-ACCESSORY (UPPER, RH)						100
Y	7N-1875	1	FILLER GP-ENGINE OIL						168
Y	4W-6874	1	FILTER GP-ENGINE OIL						169
Y	2W-8772	1	FLYWHEEL GP						113
Y	7C-6366	1	GAUGE GP-OIL LEVEL (DIPSTICK)						180
Y	8N-7174	1	GEAR GP-FRONT						114
Y	112-5674	1	GEAR GP-REAR						122
Y	4P-8307	1	HOUSING GP-FLYWHEEL						133
Y	7W-3724	1	HOUSING GP-FRONT						134
Y	141-1482	1	IGNITION GP-GAS ENGINE						781
Y	4W-5450	1	LIFTING GP-ENGINE						136
Y	7E-6705	1	LINES GP-AFTERCOOLER AIR						469
Y	9Y-1223	1	LINES GP-AIR (CARBURETOR INLET)						480
Y	4P-8350	1	LINES GP-AIR (INLET MANIFOLD)						476
Y	2W-1441	1	LINES GP-AUXILIARY FRESH WATER						257
Y	134-3749	1	LINES GP-ENGINE OIL						192
Y	7E-4762	1	LINES GP-TURBOCHARGER OIL						203
Y	116-9850	1	LINES GP-TURBOCHARGER VENT						489
Y	9Y-9185	1	LINES GP-WATER (BYPASS)						302
Y	1N-4421	1	LINES GP-WATER (LOWER)						265
Y	7E-6767	1	LINES GP-WATER (TURBOCHARGER)						294
Y	4P-8354	1	LINES GP-WATER (UPPER)						271
Y	4W-5772	1	MANIFOLD GP-EXHAUST						490
Y	7C-4711	1	PAN GP-OIL						141
Y	126-9496	16	PISTON & ROD GP						149
Y	1W-9554	1	PUMP GP-AUXILIARY WATER						347
Y	8N-6152	1	PUMP GP-ENGINE OIL (2-SECTION GEAR)						219
Y	2W-9729	1	PUMP GP-WATER						358
Y	4P-9090	1	REGULATOR GP-GAS PRESSURE						604
Y	7W-1427	1	REGULATOR GP-TEMPERATURE						367
Y	9Y-9090	1	REGULATOR GP-TEMPERATURE (OUTLET CONTROL)						371
Y	7W-3813	1	SEAL GP-CRANKSHAFT						159
Y	7E-9202	1	THROTTLE GP						620
Y	107-4654	1	TURBOCHARGER GP						529
Y	4P-9596	1	VALVE GP-SOLENOID (FUEL SHUTOFF)						980
Y	1W-8465	16	VALVE MECHANISM GP						162

ENGINE ARRANGEMENT

260-3682 ENGINE AR (contd.)

i02866385

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	

PLEASE USE THE GASKET KIT LINK IN SIS OR CONTACT
YOUR LOCAL DEALER FOR THE LATEST GASKET KIT
INFORMATION

Y - SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

268 - 1917 ENGINE AR

S/N: ZBA1-UP

RATED SPEED 1500-RPM

SMCS - 1000

i02866386

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	205-1889	1	AFTERCOOLER GP-WATER						413
Y	134-3805	16	ARRESTOR GP-FLAME						430
Y	4P-8345	1	BREATHER GP (FUMES DISPOSAL)						165
Y	4P-8360	1	BREATHER GP						166
Y	165-4406	1	BYPASS GP-EXHAUST						434
Y	4P-8352	1	CAMSHAFT GP						39
Y	170-0985	1	CARBURETOR GP						559
Y	215-2784	1	CARBURETOR GP						564
Y	7W-6372	1	CONNECTION GP-WATER						242
Y	104-4221	1	CONTROL GP-ENGINE ELECTRONIC						739
Y	256-3649	1	COOLER GP-ENGINE OIL						250
Y	6I-1392	1	COVER GP-ACCESSORY DRIVE						47
Y	9Y-6123	1	COVER GP-CYLINDER BLOCK (CENTRAL STRUCTURE)						48
			S/N: ZBA1-182						
Y	276-4639	1	COVER GP-CYLINDER BLOCK (CENTRAL STRUCTURE)						53
			S/N: ZBA183-UP						
Y	4P-8304	1	COVER GP-FRONT HOUSING						60
Y	4P-8309	1	COVER GP-FLYWHEEL HOUSING						58
Y	4P-8310	12	COVER GP-VALVE MECHANISM						65
Y	8N-0337	1	CRANKSHAFT GP						68
Y	115-5159	1	CYLINDER BLOCK GP						71
Y	248-5031	16	CYLINDER HEAD GP						88
Y	8N-7182	1	DAMPER GP						92
Y	199-3429	1	DRIVE GP-ACCESSORY (LOWER, LH)						108
Y	7N-1875	1	FILLER GP-ENGINE OIL						168
Y	4W-6874	1	FILTER GP-ENGINE OIL						169
Y	2W-8772	1	FLYWHEEL GP						113
Y	7E-6342	1	GAUGE GP-OIL LEVEL (DIPSTICK)						182
Y	155-8502	1	GEAR GP-FRONT						118
Y	121-4748	1	GEAR GP-REAR						124
Y	4P-8307	1	HOUSING GP-FLYWHEEL						133
Y	7W-3724	1	HOUSING GP-FRONT						134
Y	4P-7489	1	IGNITION GP-GAS ENGINE						774
Y	4W-5450	1	LIFTING GP-ENGINE						136
Y	141-9842	1	LINES GP-AFTERCOOLER AIR						473
Y	205-7199	1	LINES GP-AIR (INLET MANIFOLD)						486
Y	205-7263	1	LINES GP-AIR (THROTTLE TO AFTERCOOLER)						488
Y	137-6881	1	LINES GP-ENGINE OIL						195
Y	150-9619	1	LINES GP-TURBOCHARGER OIL						206
Y	9Y-9185	1	LINES GP-WATER (BYPASS)						302
Y	167-6848	1	LINES GP-WATER (AFTERCOOLER, JACKET WATER)						315
			S/N: ZBA1-471						
Y	284-0626	1	LINES GP-WATER (AFTERCOOLER, JACKET WATER)						341
			S/N: ZBA472-UP						
Y	174-0702	1	LINES GP-WATER (TURBOCHARGER)						326
Y	217-8178	1	MANIFOLD GP-EXHAUST						498
Y	7C-4711	1	PAN GP-OIL						141
Y	197-4705	16	PISTON & ROD GP						154
Y	8N-6152	1	PUMP GP-ENGINE OIL (2-SECTION GEAR)						219
Y	9Y-8175	1	PUMP GP-AUXILIARY WATER						349
Y	2W-9729	1	PUMP GP-WATER						358
Y	151-6020	1	REGULATOR GP-TEMPERATURE (AFTERCOOLER)						372
			S/N: ZBA1-471						
Y	284-0627	1	REGULATOR GP-TEMPERATURE (AFTERCOOLER)						375
			S/N: ZBA472-UP						
Y	9Y-7035	1	REGULATOR GP-TEMPERATURE (OUTLET CONTROL)						369

ENGINE ARRANGEMENT

268-1917 ENGINE AR (contd.)

i02866386

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	7W-3813	1	SEAL GP - CRANKSHAFT						159
Y	223-3942	1	SENSOR GP - SPEED						839
Y	260-1398	1	SHIELD GP - EXHAUST						514
Y	201-0860	1	THROTTLE GP						622
Y	217-3845	1	TURBOCHARGER GP						540
Y	1W-8465	16	VALVE MECHANISM GP						162

PLEASE USE THE GASKET KIT LINK IN SIS OR CONTACT
YOUR LOCAL DEALER FOR THE LATEST GASKET KIT
INFORMATION

Y - SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

268 - 1918 ENGINE AR

S/N: ZBA1-UP

RATED SPEED 1200-RPM

SMCS - 1000

i02866387

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	108-4886	1	ACTUATOR GP-GOVERNOR						547
Y	203-3174	1	AFTERCOOLER GP-WATER						411
Y	134-3805	16	ARRESTOR GP-FLAME						430
Y	4P-8345	1	BREATHING GP (FUMES DISPOSAL)						165
Y	4P-8360	1	BREATHING GP						166
Y	4W-5947	1	BYPASS GP-EXHAUST						431
Y	4P-8352	1	CAMSHAFT GP						39
Y	160-7741	1	CARBURETOR GP						557
Y	211-1690	1	CARBURETOR GP						563
Y	7W-6372	1	CONNECTION GP-WATER						242
Y	121-7548	1	CONTROL GP-CARBURETOR						576
Y	4P-8890	1	CONTROL GP-ENGINE ELECTRONIC						738
Y	150-1233	1	CONTROL GP-FUEL RATIO						578
Y	4W-5891	1	COOLER GP-ENGINE OIL						249
Y	172-0095	1	COVER GP-CYLINDER BLOCK						52
Y	4P-8309	1	COVER GP-FLYWHEEL HOUSING						58
Y	4P-8305	1	COVER GP-FRONT HOUSING						61
Y	4P-8310	12	COVER GP-VALVE MECHANISM						65
Y	8N-0337	1	CRANKSHAFT GP						68
Y	115-5159	1	CYLINDER BLOCK GP						71
Y	248-5031	16	CYLINDER HEAD GP						88
Y	8N-7182	1	DAMPER GP						92
Y	1W-9553	1	DRIVE GP-ACCESSORY (LOWER, LH)						96
Y	7N-4871	1	DRIVE GP-ACCESSORY (UPPER, RH)						100
Y	7N-1875	1	FILLER GP-ENGINE OIL						168
Y	4W-6874	1	FILTER GP-ENGINE OIL						169
Y	2W-8772	1	FLYWHEEL GP						113
Y	7E-6342	1	GAUGE GP-OIL LEVEL (DIPSTICK)						182
Y	122-9281	1	GEAR GP-FRONT						116
Y	121-4748	1	GEAR GP-REAR						124
Y	4P-8307	1	HOUSING GP-FLYWHEEL						133
Y	7W-3724	1	HOUSING GP-FRONT						134
Y	4P-7489	1	IGNITION GP-GAS ENGINE						774
Y	4W-5450	1	LIFTING GP-ENGINE						136
Y	203-7137	1	LINES GP-AFTERCOOLER AIR						474
Y	123-4848	1	LINES GP-AIR (INLET MANIFOLD)						481
Y	137-6881	1	LINES GP-ENGINE OIL						195
Y	150-1232	1	LINES GP-GAS						596
Y	121-7732	1	LINES GP-TURBOCHARGER OIL						204
Y	167-9212	1	LINES GP-WATER (AFTERCOOLER, JACKET WATER)						320
			S/N: ZBA1-288						
Y	283-4402	1	LINES GP-WATER (AFTERCOOLER, JACKET WATER)						331
			S/N: ZBA289-UP						
Y	9Y-9185	1	LINES GP-WATER (BYPASS)						302
Y	121-7727	1	LINES GP-WATER (TURBOCHARGER)						306
Y	157-5154	1	MANIFOLD GP-EXHAUST						496
Y	7C-4711	1	PAN GP-OIL						141
Y	6I-4610	16	PISTON & ROD GP						147
Y	8N-6152	1	PUMP GP-ENGINE OIL (2-SECTION GEAR)						219
Y	2W-9729	1	PUMP GP-WATER						358
Y	9Y-8175	1	PUMP GP-AUXILIARY WATER						349
Y	160-7740	1	REGULATOR GP-GAS PRESSURE						615
Y	7E-4802	1	REGULATOR GP-TEMPERATURE (AFTERCOOLER)						364
			S/N: ZBA1-204						
Y	270-3898	1	REGULATOR GP-TEMPERATURE (AFTERCOOLER)						374
			S/N: ZBA205-UP						

ENGINE ARRANGEMENT

268-1918 ENGINE AR (contd.)

i02866387

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	9Y-7035	1	REGULATOR GP-TEMPERATURE (OUTLET CONTROL)						369
Y	7W-3813	1	SEAL GP-CRANKSHAFT						159
Y	201-1292	1	SHIELD GP-EXHAUST						512
Y	121-7551	1	THROTTLE GP						621
Y	201-6884	1	TURBOCHARGER GP						538
Y	1W-8465	16	VALVE MECHANISM GP						162
Y	172-1613	1	WIRING GP-ENGINE						1010
	208-3646	1	HARNESS AS-WIRING (AIR FUEL RATIO CONTROL)						
	8T-9605	1	PLUG AS-CONNECTOR (6-PIN)						
E	126-9424		TUBE-HEAT SHRINK (3.2-MM DIA) (18-CM)						
PLEASE USE THE GASKET KIT LINK IN SIS OR CONTACT YOUR LOCAL DEALER FOR THE LATEST GASKET KIT INFORMATION									
E-ORDER BY THE CENTIMETER Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

273-3075 ENGINE AR

S/N: ZBA1-UP

SMCS-1000

i02866388

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	108-4886	1	ACTUATOR GP-GOVERNOR						547
Y	4P-8950	1	AFTERCOOLER GP-TREATED WATER						405
Y	9Y-5313	16	ARRESTOR GP-FLAME						429
Y	4P-8312	2	BREATHING GP						164
Y	4W-5947	1	BYPASS GP-EXHAUST						431
Y	4P-8352	1	CAMSHAFT GP						39
Y	9Y-3190	1	CARBURETOR GP						552
Y	7W-6372	1	CONNECTION GP-WATER						242
Y	4P-7316	1	CONTROL GP-CARBURETOR						573
Y	4W-5891	1	COOLER GP-ENGINE OIL						249
Y	9Y-6123	1	COVER GP-CYLINDER BLOCK (CENTRAL STRUCTURE)						48
Y	4P-8309	1	COVER GP-FLYWHEEL HOUSING						58
Y	4P-8305	1	COVER GP-FRONT HOUSING						61
Y	4P-8310	14	COVER GP-VALVE MECHANISM						65
Y	8N-0337	1	CRANKSHAFT GP						68
Y	115-5159	1	CYLINDER BLOCK GP						71
Y	206-1558	16	CYLINDER HEAD GP						77
Y	8N-7182	1	DAMPER GP						92
Y	1W-9553	1	DRIVE GP-ACCESSORY (LOWER, LH)						96
Y	7N-4871	1	DRIVE GP-ACCESSORY (UPPER, RH)						100
Y	7N-1875	1	FILLER GP-ENGINE OIL						168
Y	4W-6874	1	FILTER GP-ENGINE OIL						169
Y	2W-8772	1	FLYWHEEL GP						113
Y	7C-6366	1	GAUGE GP-OIL LEVEL (DIPSTICK)						180
Y	122-9281	1	GEAR GP-FRONT						116
Y	112-5674	1	GEAR GP-REAR						122
Y	4P-8307	1	HOUSING GP-FLYWHEEL						133
Y	7W-3724	1	HOUSING GP-FRONT						134
Y	126-5667	1	IGNITION GP-GAS ENGINE						776
Y	4W-5450	1	LIFTING GP-ENGINE						136
Y	4W-5773	1	LINES GP-AFTERCOOLER AIR						468
Y	9Y-1223	1	LINES GP-AIR (CARBURETOR INLET)						480
Y	4P-8350	1	LINES GP-AIR (INLET MANIFOLD)						476
Y	2W-1441	1	LINES GP-AUXILIARY FRESH WATER						257
Y	134-3749	1	LINES GP-ENGINE OIL						192
Y	4W-5770	1	LINES GP-TURBOCHARGER OIL						202
Y	116-9850	1	LINES GP-TURBOCHARGER VENT						489
Y	9Y-9185	1	LINES GP-WATER (BYPASS)						302
Y	1N-4421	1	LINES GP-WATER (LOWER)						265
Y	4W-5771	1	LINES GP-WATER (TURBOCHARGER EXHAUST)						275
Y	4P-8354	1	LINES GP-WATER (UPPER)						271
Y	4W-5772	1	MANIFOLD GP-EXHAUST						490
Y	7C-4711	1	PAN GP-OIL						141
Y	6I-4610	16	PISTON & ROD GP						147
Y	1W-9554	1	PUMP GP-AUXILIARY WATER						347
Y	8N-6152	1	PUMP GP-ENGINE OIL (2-SECTION GEAR)						219
Y	2W-9729	1	PUMP GP-WATER						358
Y	7E-3404	1	REGULATOR GP-GAS PRESSURE						606
Y	7W-1427	1	REGULATOR GP-TEMPERATURE						367
Y	9Y-9090	1	REGULATOR GP-TEMPERATURE (OUTLET CONTROL)						371
Y	7W-3813	1	SEAL GP-CRANKSHAFT						159
Y	9Y-7034	1	TURBOCHARGER GP						525
Y	9Y-6061	1	VALVE GP-SOLENOID (GAS SHUTOFF)						981
Y	1W-8465	16	VALVE MECHANISM GP						162

PLEASE USE THE GASKET KIT LINK IN SIS OR CONTACT
YOUR LOCAL DEALER FOR THE LATEST GASKET KIT
INFORMATION

ENGINE ARRANGEMENT

273-3075 ENGINE AR (contd.)

i02866388

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

273-3076 ENGINE AR

S/N: ZBA1-UP

SMCS-1000

i02866389

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	108-4886	1	ACTUATOR GP-GOVERNOR						547
Y	4P-8950	1	AFTERCOOLER GP-TREATED WATER						405
Y	9Y-5313	16	ARRESTOR GP-FLAME						429
Y	4P-8345	1	BREATHING GP (FUMES DISPOSAL)						165
Y	4P-8360	1	BREATHING GP						166
Y	4W-5947	1	BYPASS GP-EXHAUST						431
Y	4P-8352	1	CAMSHAFT GP						39
Y	9Y-3190	1	CARBURETOR GP						552
Y	7W-6372	1	CONNECTION GP-WATER						242
Y	4P-7316	1	CONTROL GP-CARBURETOR						573
Y	4W-5891	1	COOLER GP-ENGINE OIL						249
Y	9Y-6123	1	COVER GP-CYLINDER BLOCK (CENTRAL STRUCTURE)						48
Y	4P-8309	1	COVER GP-FLYWHEEL HOUSING						58
Y	4P-8305	1	COVER GP-FRONT HOUSING						61
Y	4P-8310	12	COVER GP-VALVE MECHANISM						65
Y	8N-0337	1	CRANKSHAFT GP						68
Y	115-5159	1	CYLINDER BLOCK GP						71
Y	248-5030	16	CYLINDER HEAD GP						86
Y	8N-7182	1	DAMPER GP						92
Y	1W-9553	1	DRIVE GP-ACCESSORY (LOWER, LH)						96
Y	7N-4871	1	DRIVE GP-ACCESSORY (UPPER, RH)						100
Y	7N-1875	1	FILLER GP-ENGINE OIL						168
Y	4W-6874	1	FILTER GP-ENGINE OIL						169
Y	2W-8772	1	FLYWHEEL GP						113
Y	7E-6342	1	GAUGE GP-OIL LEVEL (DIPSTICK)						182
Y	122-9281	1	GEAR GP-FRONT						116
Y	121-4748	1	GEAR GP-REAR						124
Y	4P-8307	1	HOUSING GP-FLYWHEEL						133
Y	7W-3724	1	HOUSING GP-FRONT						134
Y	126-5667	1	IGNITION GP-GAS ENGINE						776
Y	4W-5450	1	LIFTING GP-ENGINE						136
Y	4W-5773	1	LINES GP-AFTERCOOLER AIR						468
Y	9Y-1223	1	LINES GP-AIR (CARBURETOR INLET)						480
Y	4P-8350	1	LINES GP-AIR (INLET MANIFOLD)						476
Y	114-4358	1	LINES GP-ENGINE OIL						190
Y	4W-5770	1	LINES GP-TURBOCHARGER OIL						202
Y	116-9850	1	LINES GP-TURBOCHARGER VENT						489
Y	9Y-3193	1	LINES GP-WATER (AFTERCOOLER)						298
Y	9Y-9185	1	LINES GP-WATER (BYPASS)						302
Y	9Y-5801	1	LINES GP-WATER (LOWER)						300
Y	7E-4804	1	LINES GP-WATER (OIL COOLER)						288
Y	4W-5771	1	LINES GP-WATER (TURBOCHARGER EXHAUST)						275
Y	4P-8789	1	LINES GP-WATER (UPPER)						273
Y	108-9652	1	MANIFOLD GP-EXHAUST (WATER COOLED)						492
Y	7C-4711	1	PAN GP-OIL						141
Y	6I-4610	16	PISTON & ROD GP						147
Y	9Y-8175	1	PUMP GP-AUXILIARY WATER						349
Y	8N-6152	1	PUMP GP-ENGINE OIL (2-SECTION GEAR)						219
Y	2W-9729	1	PUMP GP-WATER						358
Y	2W-5710	1	REGULATOR GP-GAS PRESSURE						602
Y	9Y-7035	1	REGULATOR GP-TEMPERATURE (OUTLET CONTROL)						369
Y	270-3898	1	REGULATOR GP-TEMPERATURE (AFTERCOOLER)						374
Y	7W-3813	1	SEAL GP-CRANKSHAFT						159
Y	9Y-7034	1	TURBOCHARGER GP						525
Y	150-3501	1	VALVE GP-SOLENOID (GAS SHUTOFF)						988
Y	1W-8465	16	VALVE MECHANISM GP						162

ENGINE ARRANGEMENT

273-3076 ENGINE AR (contd.)

i02866389

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
			PLEASE USE THE GASKET KIT LINK IN SIS OR CONTACT YOUR LOCAL DEALER FOR THE LATEST GASKET KIT INFORMATION						
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

273-3084 ENGINE AR

S/N: ZBA1-UP

SMCS-1000

i02866390

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	108-4886	1	ACTUATOR GP-GOVERNOR						547
Y	4P-8950	1	AFTERCOOLER GP-TREATED WATER						405
Y	9Y-5313	16	ARRESTOR GP-FLAME						429
Y	4P-8312	2	BREATHING GP						164
Y	4W-5947	1	BYPASS GP-EXHAUST						431
Y	4P-8352	1	CAMSHAFT GP						39
Y	9Y-3190	1	CARBURETOR GP						552
Y	7W-6372	1	CONNECTION GP-WATER						242
Y	4P-7316	1	CONTROL GP-CARBURETOR						573
Y	4W-5891	1	COOLER GP-ENGINE OIL						249
Y	9Y-6123	1	COVER GP-CYLINDER BLOCK (CENTRAL STRUCTURE)						48
Y	4P-8309	1	COVER GP-FLYWHEEL HOUSING						58
Y	4P-8305	1	COVER GP-FRONT HOUSING						61
Y	4P-8310	14	COVER GP-VALVE MECHANISM						65
Y	8N-0337	1	CRANKSHAFT GP						68
Y	115-5159	1	CYLINDER BLOCK GP						71
Y	206-1558	16	CYLINDER HEAD GP						77
Y	8N-7182	1	DAMPER GP						92
Y	7E-7647	1	DRIVE GP-ACCESSORY (LOWER, LH)						98
Y	7N-4871	1	DRIVE GP-ACCESSORY (UPPER, RH)						100
Y	7N-1875	1	FILLER GP-ENGINE OIL						168
Y	4W-6874	1	FILTER GP-ENGINE OIL						169
Y	2W-8772	1	FLYWHEEL GP						113
Y	7C-6366	1	GAUGE GP-OIL LEVEL (DIPSTICK) (ENGINE)						180
Y	155-8502	1	GEAR GP-FRONT						118
Y	112-5674	1	GEAR GP-REAR						122
Y	4P-8307	1	HOUSING GP-FLYWHEEL						133
Y	7W-3724	1	HOUSING GP-FRONT						134
Y	126-5667	1	IGNITION GP-GAS ENGINE						776
Y	4W-5450	1	LIFTING GP-ENGINE						136
Y	7E-6705	1	LINES GP-AFTERCOOLER AIR						469
Y	9Y-1223	1	LINES GP-AIR (CARBURETOR INLET)						480
Y	4P-8350	1	LINES GP-AIR (INLET MANIFOLD)						476
Y	2W-1441	1	LINES GP-AUXILIARY FRESH WATER						257
Y	134-3749	1	LINES GP-ENGINE OIL						192
Y	7E-4762	1	LINES GP-TURBOCHARGER OIL						203
Y	116-9850	1	LINES GP-TURBOCHARGER VENT						489
Y	9Y-9185	1	LINES GP-WATER (BYPASS)						302
Y	1N-4421	1	LINES GP-WATER (LOWER)						265
Y	7E-6767	1	LINES GP-WATER (TURBOCHARGER)						294
Y	4P-8354	1	LINES GP-WATER (UPPER)						271
Y	4W-5772	1	MANIFOLD GP-EXHAUST						490
Y	7C-4711	1	PAN GP-OIL						141
Y	133-9376	16	PISTON & ROD GP						151
Y	1W-9554	1	PUMP GP-AUXILIARY WATER						347
Y	8N-6152	1	PUMP GP-ENGINE OIL (2-SECTION GEAR)						219
Y	2W-9729	1	PUMP GP-WATER						358
Y	7E-3404	1	REGULATOR GP-GAS PRESSURE						606
Y	7W-1427	1	REGULATOR GP-TEMPERATURE						367
Y	9Y-9090	1	REGULATOR GP-TEMPERATURE (OUTLET CONTROL)						371
Y	7W-3813	1	SEAL GP-CRANKSHAFT						159
Y	113-1154	1	TURBOCHARGER GP						530
Y	9Y-6061	1	VALVE GP-SOLENOID (GAS SHUTOFF)						981
Y	1W-8465	16	VALVE MECHANISM GP						162

PLEASE USE THE GASKET KIT LINK IN SIS OR CONTACT
YOUR LOCAL DEALER FOR THE LATEST GASKET KIT
INFORMATION

ENGINE ARRANGEMENT

273-3084 ENGINE AR (contd.)

i02866390

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

295 - 1391 ENGINE AR

S/N: ZBA1-UP

SMCS - 1000

i02866542

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1W-8887	1	ACTUATOR GP-GOVERNOR						547
Y	4P-8950	1	AFTERCOOLER GP-TREATED WATER						405
Y	9Y-5313	16	ARRESTOR GP-FLAME						429
Y	4P-8312	2	BREATHING GP						164
Y	4W-5947	1	BYPASS GP-EXHAUST						431
Y	4P-8352	1	CAMSHAFT GP						39
Y	9Y-3190	1	CARBURETOR GP						552
Y	7W-6372	1	CONNECTION GP-WATER						242
Y	4P-6942	1	CONTROL GP-CARBURETOR						571
Y	4W-5891	1	COOLER GP-ENGINE OIL						249
Y	9Y-6123	1	COVER GP-CYLINDER BLOCK (CENTRAL STRUCTURE)						48
Y	4P-8309	1	COVER GP-FLYWHEEL HOUSING						58
Y	4P-8304	1	COVER GP-FRONT HOUSING						60
Y	4P-8310	14	COVER GP-VALVE MECHANISM						65
Y	8N-0337	1	CRANKSHAFT GP						68
Y	115-5159	1	CYLINDER BLOCK GP						71
Y	206-1558	16	CYLINDER HEAD GP						77
Y	8N-7182	1	DAMPER GP						92
Y	1W-9553	1	DRIVE GP-ACCESSORY (LOWER, LH)						96
Y	7N-4871	1	DRIVE GP-ACCESSORY (UPPER, RH)						100
Y	7N-1875	1	FILLER GP-ENGINE OIL						168
Y	4W-6874	1	FILTER GP-ENGINE OIL						169
Y	2W-8772	1	FLYWHEEL GP						113
Y	7C-6366	1	GAUGE GP-OIL LEVEL (DIPSTICK) (ENGINE)						180
Y	122-9281	1	GEAR GP-FRONT						116
Y	112-5674	1	GEAR GP-REAR						122
Y	4P-8307	1	HOUSING GP-FLYWHEEL						133
Y	7W-3724	1	HOUSING GP-FRONT						134
Y	126-5667	1	IGNITION GP-GAS ENGINE						776
Y	4W-5450	1	LIFTING GP-ENGINE						136
Y	7E-6705	1	LINES GP-AFTERCOOLER AIR						469
Y	9Y-1223	1	LINES GP-AIR (CARBURETOR INLET)						480
Y	4P-8350	1	LINES GP-AIR (INLET MANIFOLD)						476
Y	2W-1441	1	LINES GP-AUXILIARY FRESH WATER						257
Y	134-3749	1	LINES GP-ENGINE OIL						192
Y	7E-4762	1	LINES GP-TURBOCHARGER OIL						203
Y	116-9850	1	LINES GP-TURBOCHARGER VENT						489
Y	9Y-9185	1	LINES GP-WATER (BYPASS)						302
Y	1N-4421	1	LINES GP-WATER (LOWER)						265
Y	7E-6767	1	LINES GP-WATER (TURBOCHARGER)						294
Y	4P-8354	1	LINES GP-WATER (UPPER)						271
Y	4W-5772	1	MANIFOLD GP-EXHAUST						490
Y	7C-4711	1	PAN GP-OIL						141
Y	102-2256	16	PISTON & ROD GP						148
Y	1W-9554	1	PUMP GP-AUXILIARY WATER						347
Y	8N-6152	1	PUMP GP-ENGINE OIL (2-SECTION GEAR)						219
Y	2W-9729	1	PUMP GP-WATER						358
Y	7E-3404	1	REGULATOR GP-GAS PRESSURE						606
Y	7W-1427	1	REGULATOR GP-TEMPERATURE						367
Y	9Y-9090	1	REGULATOR GP-TEMPERATURE (OUTLET CONTROL)						371
Y	7W-3813	1	SEAL GP-CRANKSHAFT						159
Y	4P-4606	1	TURBOCHARGER GP						519
Y	9Y-6061	1	VALVE GP-SOLENOID (GAS SHUTOFF)						981
Y	1W-8465	16	VALVE MECHANISM GP						162

PLEASE USE THE GASKET KIT LINK IN SIS OR CONTACT
YOUR LOCAL DEALER FOR THE LATEST GASKET KIT
INFORMATION

ENGINE ARRANGEMENT

295 - 1391 ENGINE AR (contd.)

i02866542

Y - SEPARATE ILLUSTRATION

BASIC ENGINE

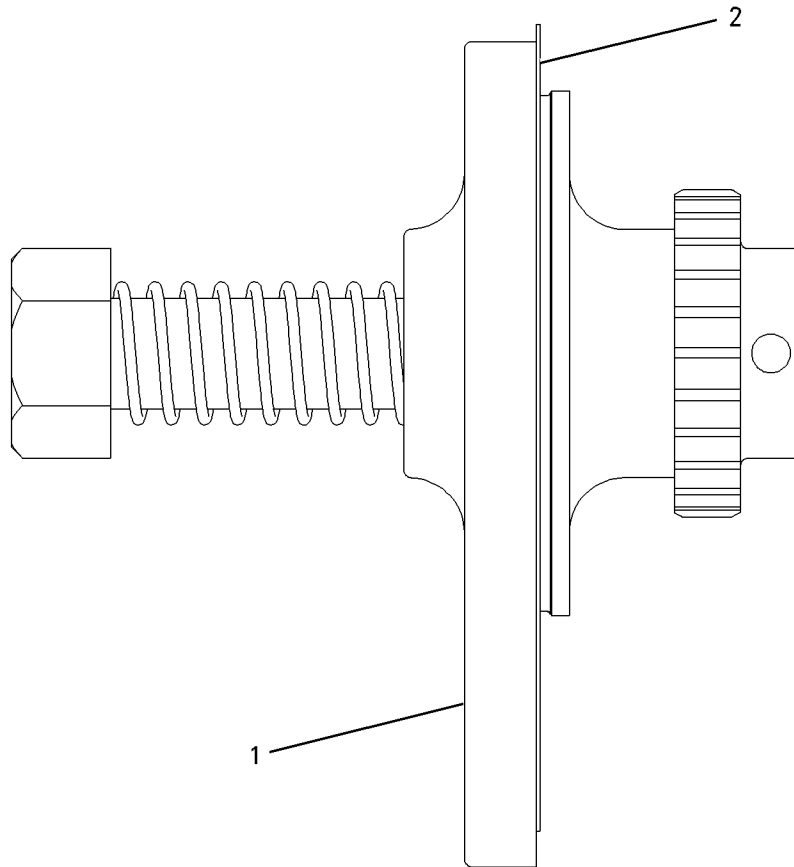
5R-7425 BARRING GP-LH

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1235

i01581694

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3R-1937	1	TOOL-BARRING						
	2	1	4H-7869	1	GASKET						



GRAPHIC #1

<END>

g00824462

BASIC ENGINE

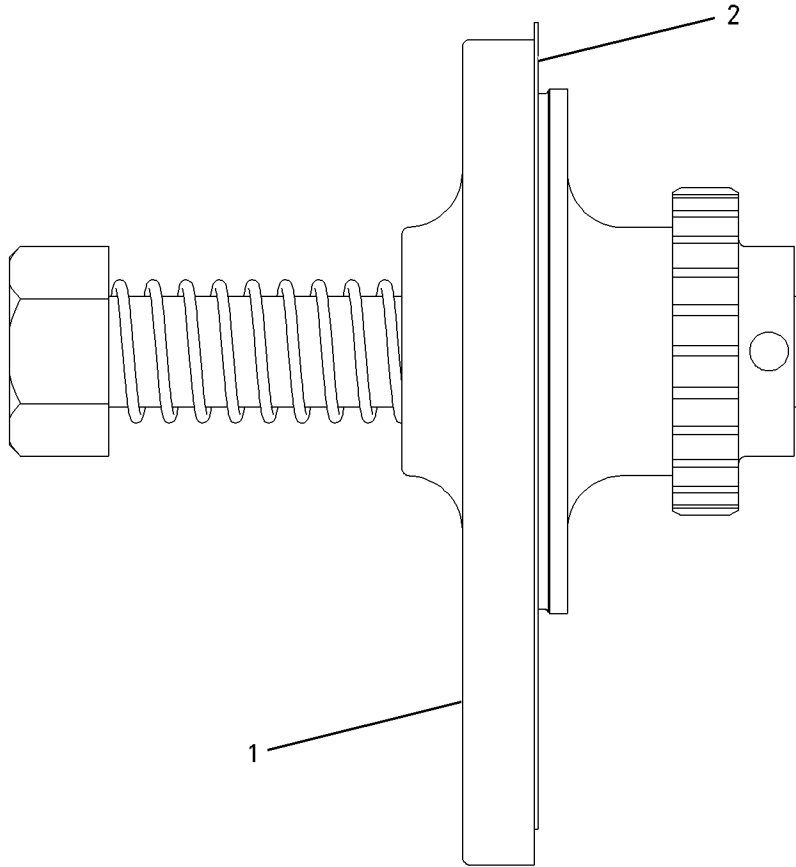
253-2468 BARRING GP-RH

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1235

i02113355

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3R-1937	1	TOOL-BARRING						
	2	1	4H-7869	1	GASKET						



GRAPHIC #1

<END>

g00824462

BASIC ENGINE

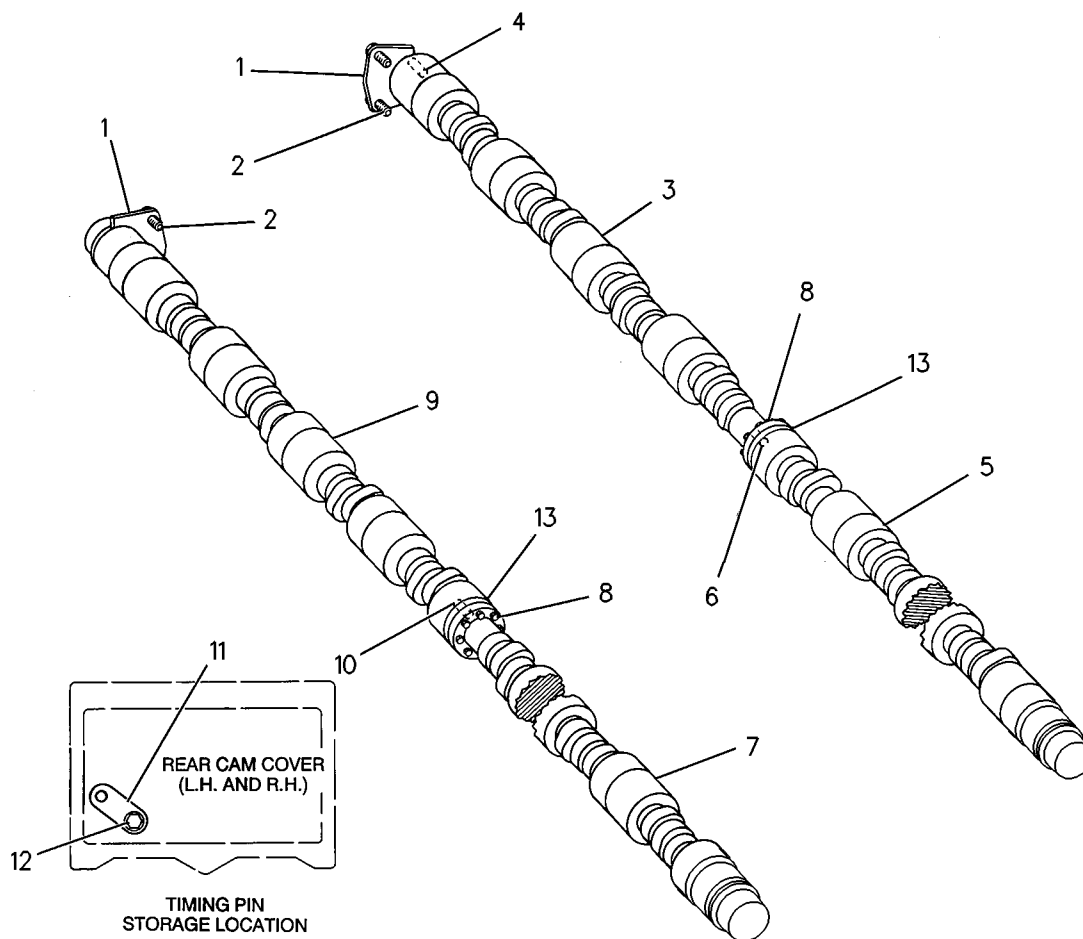
4P-8352 CAMSHAFT GP

S/N: ZBA1-UP

SMCS-1210

i02229015

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7N-3218	2	WASHER - THRUST						
	2	1	0L-1351	4	BOLT (3/8-16X0.875-IN)						
	3	1	4P-8353	1	CAMSHAFT AS-REAR (LH)						
	4	1	5B-5821	1	DOWEL						
	5	1	7C-2054	1	CAMSHAFT AS-FRONT (LH)						
	6	1	4N-1650	1	DOWEL						
	7	1	7C-2049	1	CAMSHAFT AS-FRONT (RH)						
	8	1	5P-0076	16	BOLT -12 POINT HEAD (3/8-16X1.5-IN)						
	9	1	7C-2051	1	CAMSHAFT AS-REAR (RH)						
	10	1	4N-1650	1	DOWEL						
	11	1	4W-6664	2	PLATE AS-TIMING						
	12	1	0S-0509	2	BOLT (3/8-16X0.75-IN)						
		1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	13	1	7N-3216	2	SPACER (35.035X84X12-MM THK)						



GRAPHIC #1

<END>

g00230941

BASIC ENGINE

5N-3765 COUPLING GP - FLEXIBLE-VISCOUS DAMPENED

S/N: ZBA1-UP

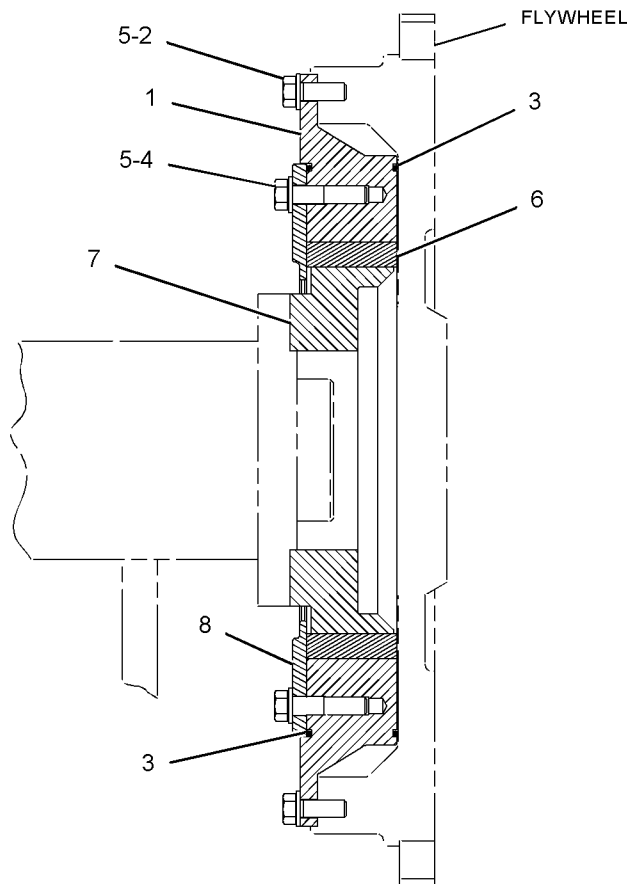
PART OF 104-6203 INSTALLATION AR-GENERATOR
AN ATTACHMENT

SMCS-3252

i02196472

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	5N-3284	1	COUPLING-OUTER	
	2	1	0S-1589	12	BOLT (5/8-11X1.75-IN)	
	3	1	9H-0846	2	SEAL-O-RING	
	4	1	1A-8537	12	BOLT (5/8-11X2.75-IN)	
	5	1	4D-3704	24	WASHER-HARD (17X30X5-MM THK)	
	6	1	5N-3272	3	BOOT-RUBBER COUPLING	
	7	1	3N-6666	1	COUPLING-DRIVE	
	8	1	5N-3274	1	PLATE	
BF		1	5N-5561		LUBRICANT-SILICONE	

B-USE AS REQUIRED
F-NOT SHOWN



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g01109406

BASIC ENGINE

8N-7152 COUPLING GP-FLEXIBLE

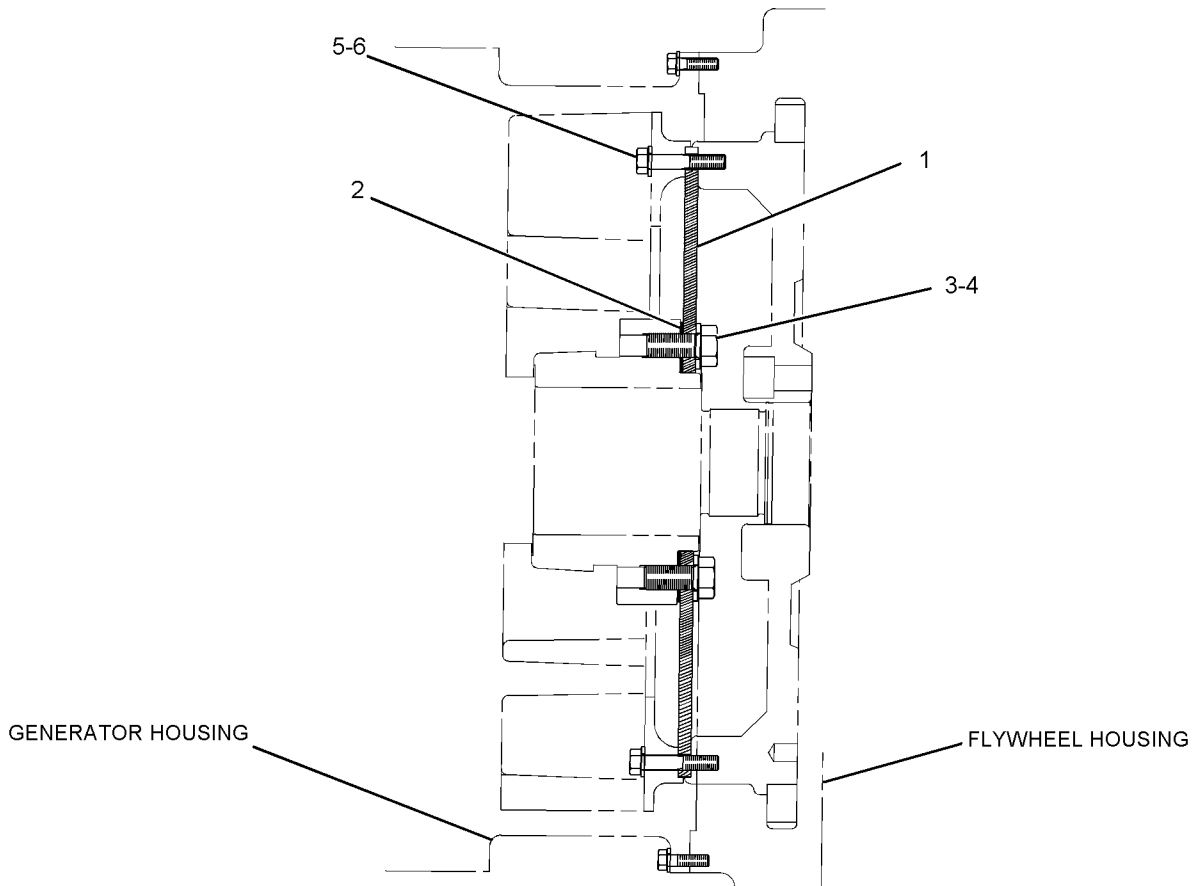
S/N: 5TA1035-UP; 5YA1175-UP; 5ZA755-UP; 6AA2900-UP; 6PA2600-UP; ZBA1-UP
PART OF 7W-8708 INSTALLATION AR-GENERATOR
AN ATTACHMENT

SMCS-3252

i02178345

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5N-4478	1	PLATE AS						
B	2	1	5N-4479	3	SHIM (0.8-MM THK)						
	3	1	5P-8250	8	WASHER (28X49X5-MM THK)						
	4	1	8S-9093	8	BOLT (1-8X2.25-IN)						
	5	1	5P-8247	12	WASHER-HARD (17X32X3.5-MM THK)						
	6	1	1D-4585	12	BOLT (5/8-11X3.25-IN)						

B-USE AS REQUIRED



RIGHT SIDE VIEW
<END>

GRAPHIC #1

g01103780

BASIC ENGINE

243-1516 COUPLING GP-FLEXIBLE

S/N: ZBA1-UP

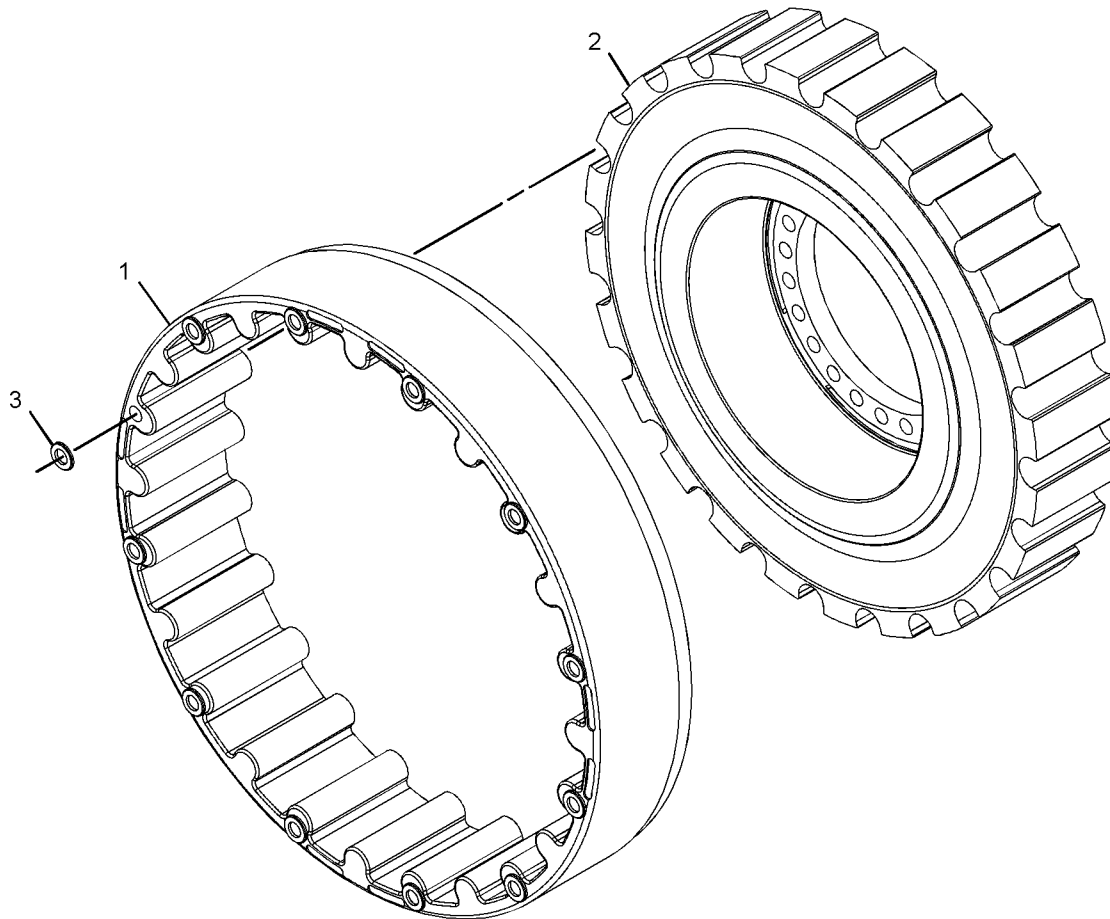
75-SHORE HARDNESS. 10000-SERIES

PART OF 252-5585, 315-1410 INSTALLATION AR-GENERATOR
AN ATTACHMENT

SMCS-3252

i02274902

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	241-9269	1	COUPLING-OUTER						
	2	1	243-1510	1	COUPLING-INNER						
	3	1	248-2432	12	WASHER (17X30X3-MM THK)						



GRAPHIC #1

<END>

g01139449

BASIC ENGINE

243-1520 COUPLING GP-FLEXIBLE

S/N: ZBA1-UP

72-SHORE HARDNESS. 18000 SERIES

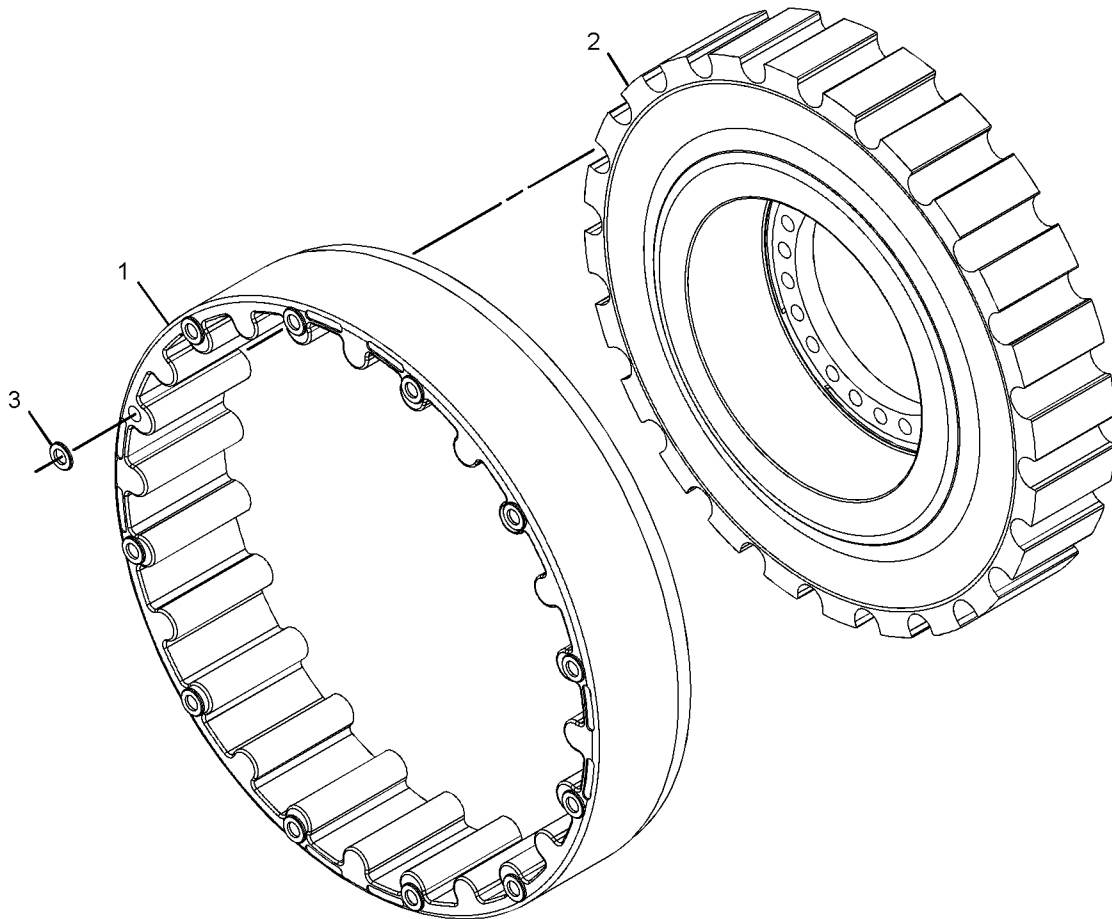
PART OF 252-5589 INSTALLATION AR-GENERATOR

AN ATTACHMENT

SMCS-3252

i02302887

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	244-7191	1	COUPLING-OUTER						
	2	1	243-1513	1	COUPLING-INNER						
	3	1	248-2432	12	WASHER (17X30X3-MM THK)						



GRAPHIC #1

<END>

g01139449

BASIC ENGINE

247-0308 COUPLING GP-FLEXIBLE-GENERATOR

S/N: ZBA1-UP

72-SHORE HARDNESS. 18000-SERIES

PART OF 268-6475 COUPLING GP-FLEXIBLE, 247-0305, 254-7313 INSTALLATION

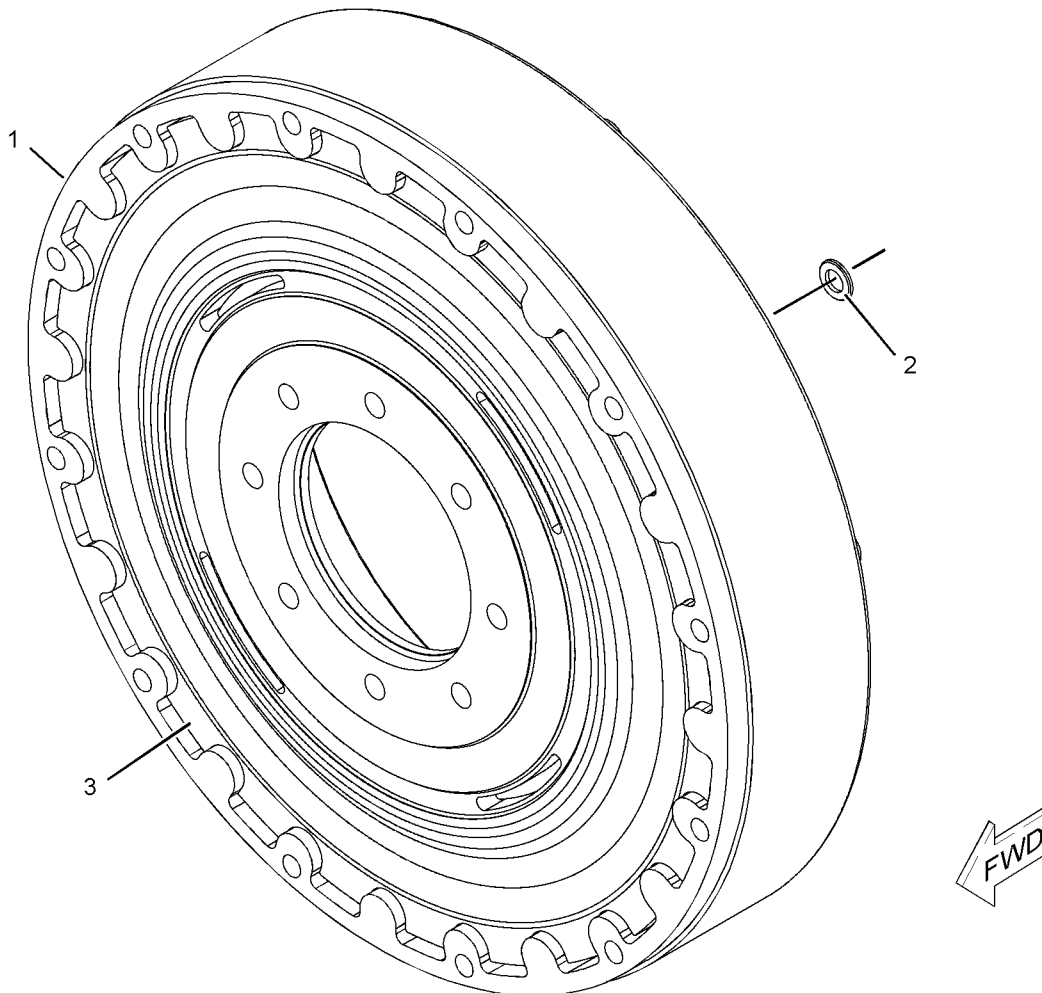
AR-GENERATOR

AN ATTACHMENT

SMCS-3252

i02230849

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	244-7191	1	COUPLING-OUTER						
	2	1	248-2432	12	WASHER (17X30X3-MM THK)						
	3	1	249-0059	1	COUPLING (INNER)						



GRAPHIC #1

<END>

g01125779

BASIC ENGINE

268 - 6475 COUPLING GP - FLEXIBLE-GENERATOR

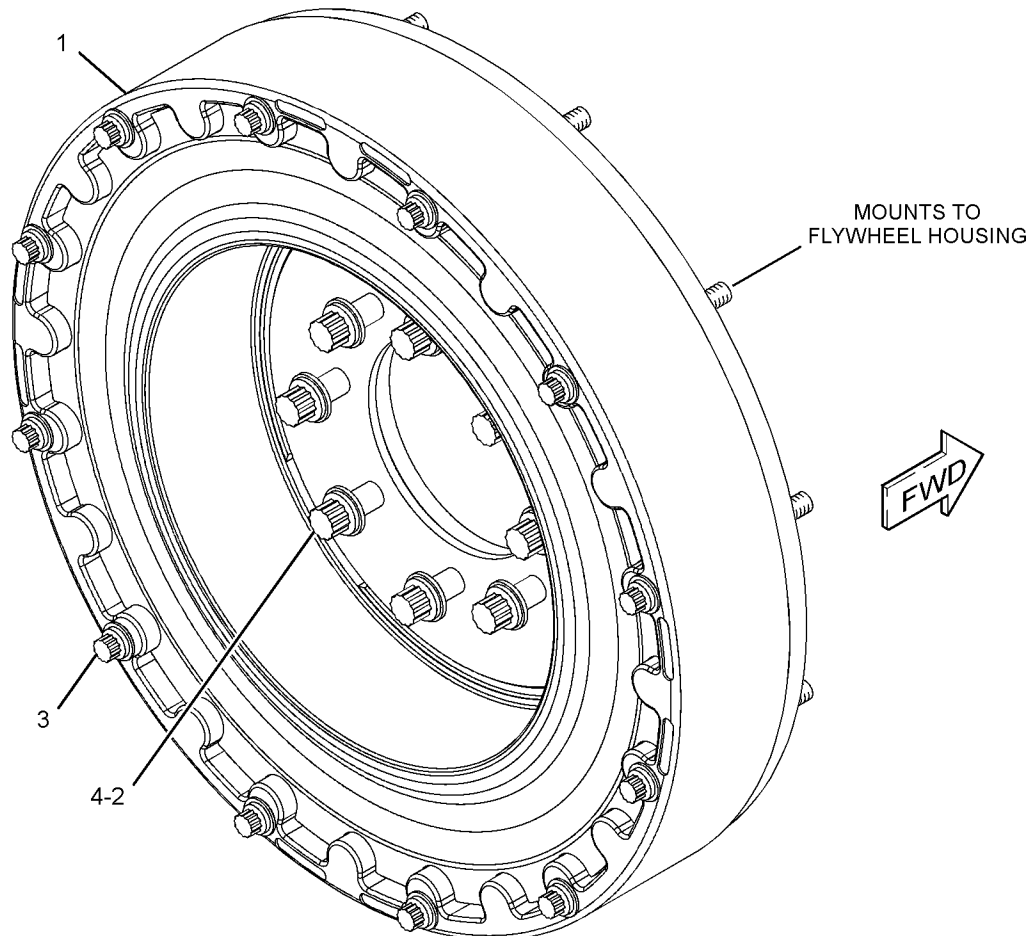
S/N: ZBA1-UP
FOR USE WITH 2-BEARING GENERATOR
AN ATTACHMENT

SMCS - 3252

i02305975

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
Y	1	1	247-0308	1	COUPLING GP - FLEXIBLE	44
	2	1	4M-6953	8	WASHER - HARD (24X38X3.5-MM THK)	
	3	1	8D-7942	12	BOLT-12 POINT HEAD (5/8-11X6.5-IN)	
	4	1	9X-2119	8	BOLT-12 POINT HEAD (7/8-9X2.5-IN)	

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01156363

BASIC ENGINE

153-0395 COUPLING GP-GENERATOR

S/N: ZBA1-UP; 2DM1838-UP; 5WN1842-UP; 6DW1203-UP; 8GW702-UP

PART OF 144-1695, 144-1705, 144-1753, 144-1771, 144-1813, 144-1819, 144-1989,
144-2041, 147-9455, 147-9493, 162-9493, 164-4945, 226-1215, 276-4652 GENERATOR
GP

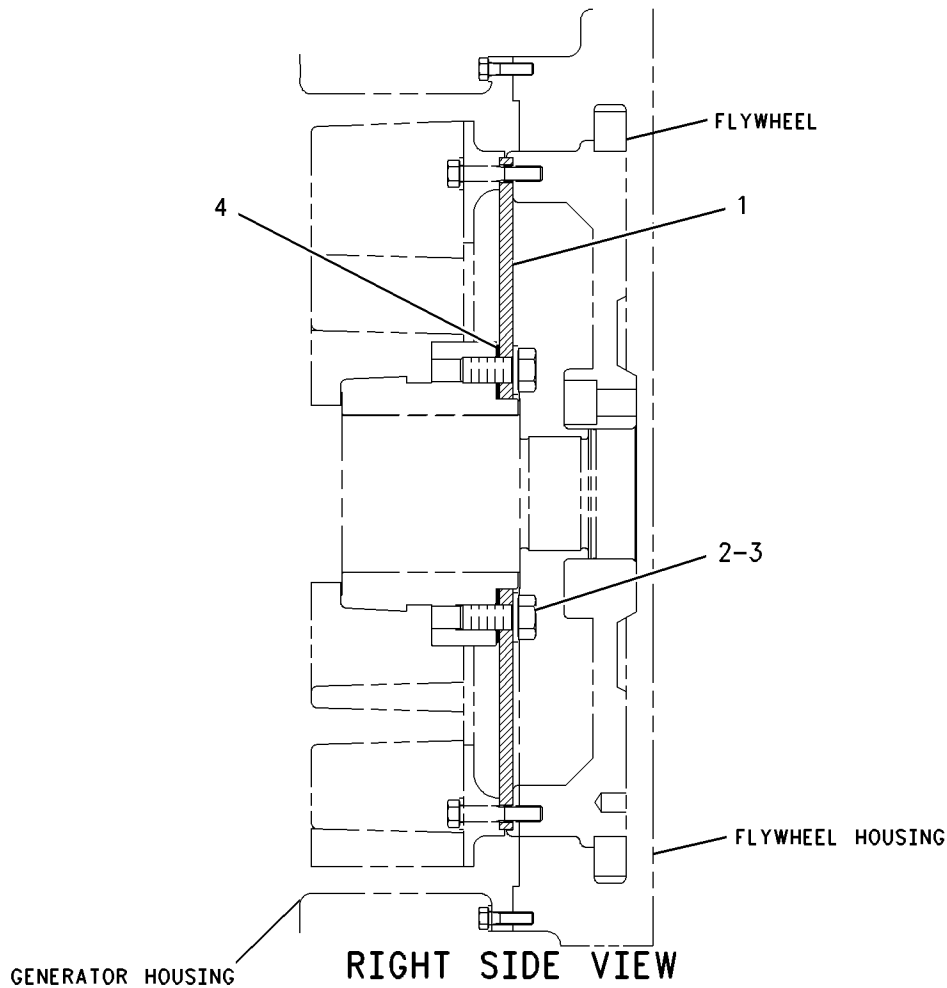
ALSO AN ATTACHMENT

SMCS-4456

i01729160

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
Y	1	1	5N-0593	1	PLATE GP-GENERATOR COUPLING	1600
	2	1	5P-8250	8	WASHER (28X49X5MM THK)	
	3	1	8S-9093	8	BOLT (1-8X2.25 IN)	
B	4	1	5N-4479	3	SHIM (.8MM THK)	

B-USE AS REQUIRED
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00888012

BASIC ENGINE

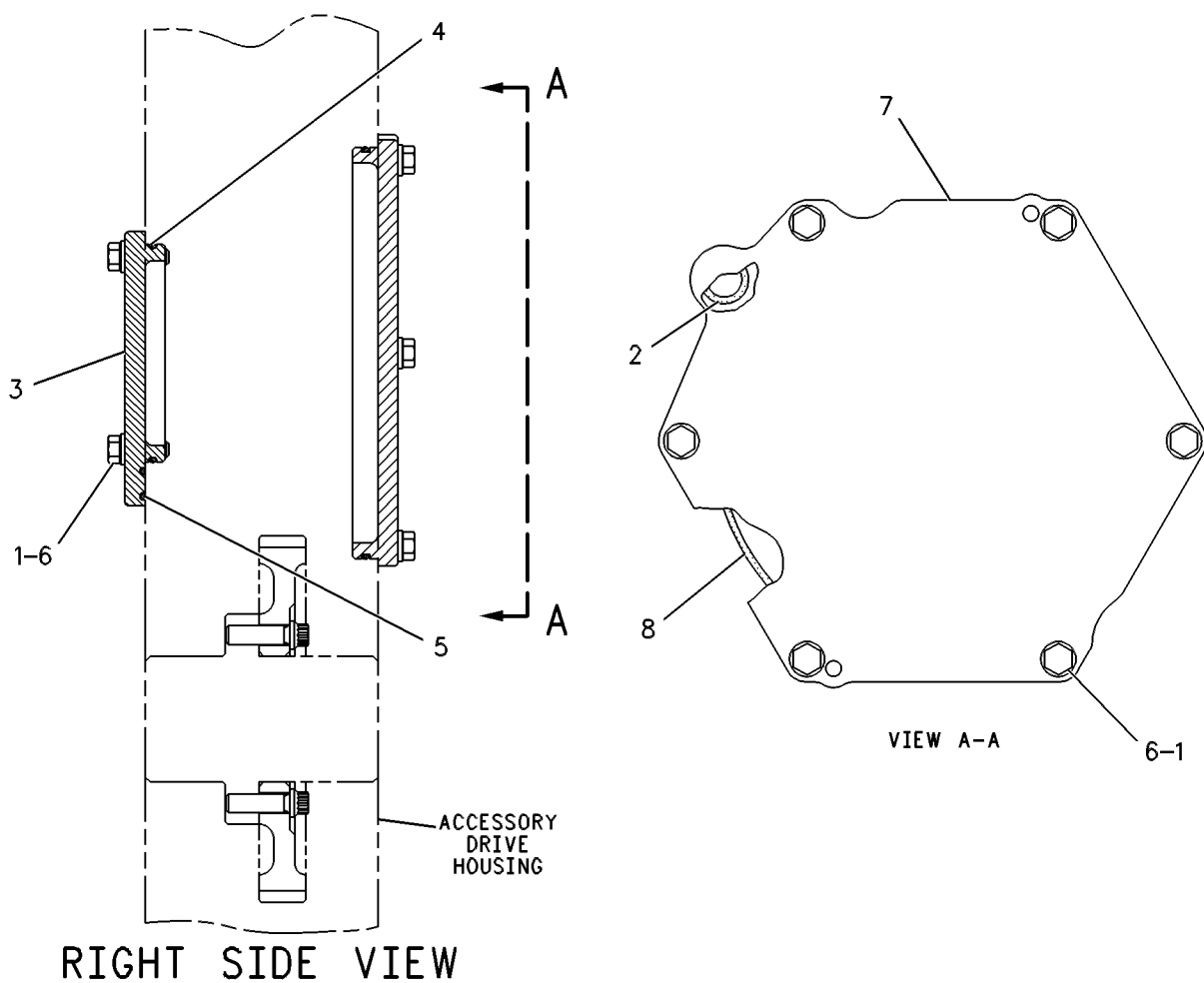
6I - 1392 COVER GP-ACCESSORY DRIVE-UPPER, RH

S/N: ZBA1-UP

SMCS-1207

i02224060

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5M-2894	10	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	2	1	6V-3348	1	SEAL-O-RING						
	3	1	7N-4952	1	COVER						
	4	1	235-3548	1	SEAL-O-RING						
	5	1	5P-0840	1	SEAL-O-RING						
	6	1	1A-2029	10	BOLT (3/8-16X1.125-IN)						
	7	1	7N-4951	1	COVER						
	8	1	235-3546	1	SEAL-O-RING						



GRAPHIC #1

<END>

g00086078

BASIC ENGINE

9Y-6123 COVER GP-CYLINDER BLOCK-CENTRAL STRUCTURE

S/N: ZBA1-UP

SMCS-1201

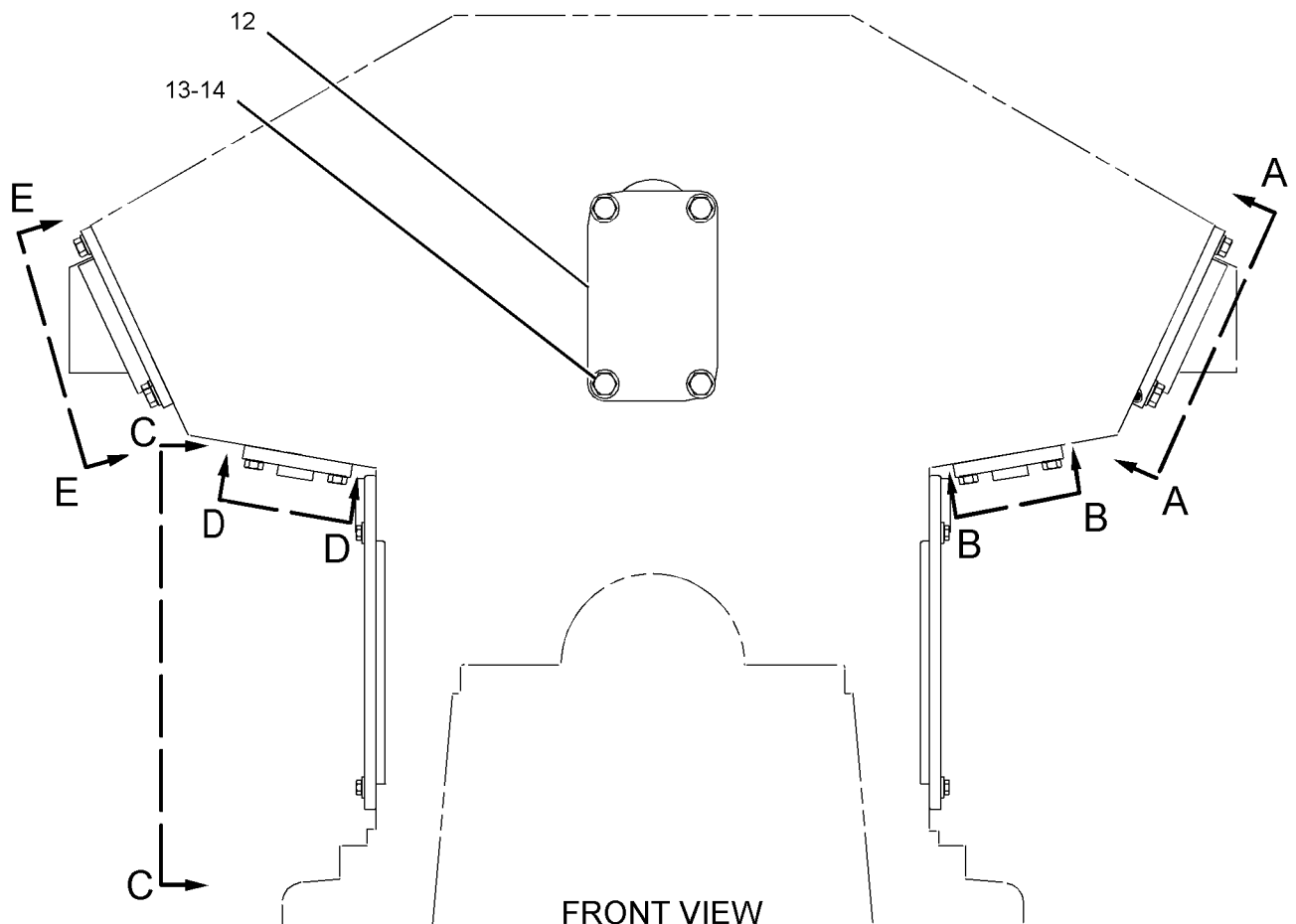
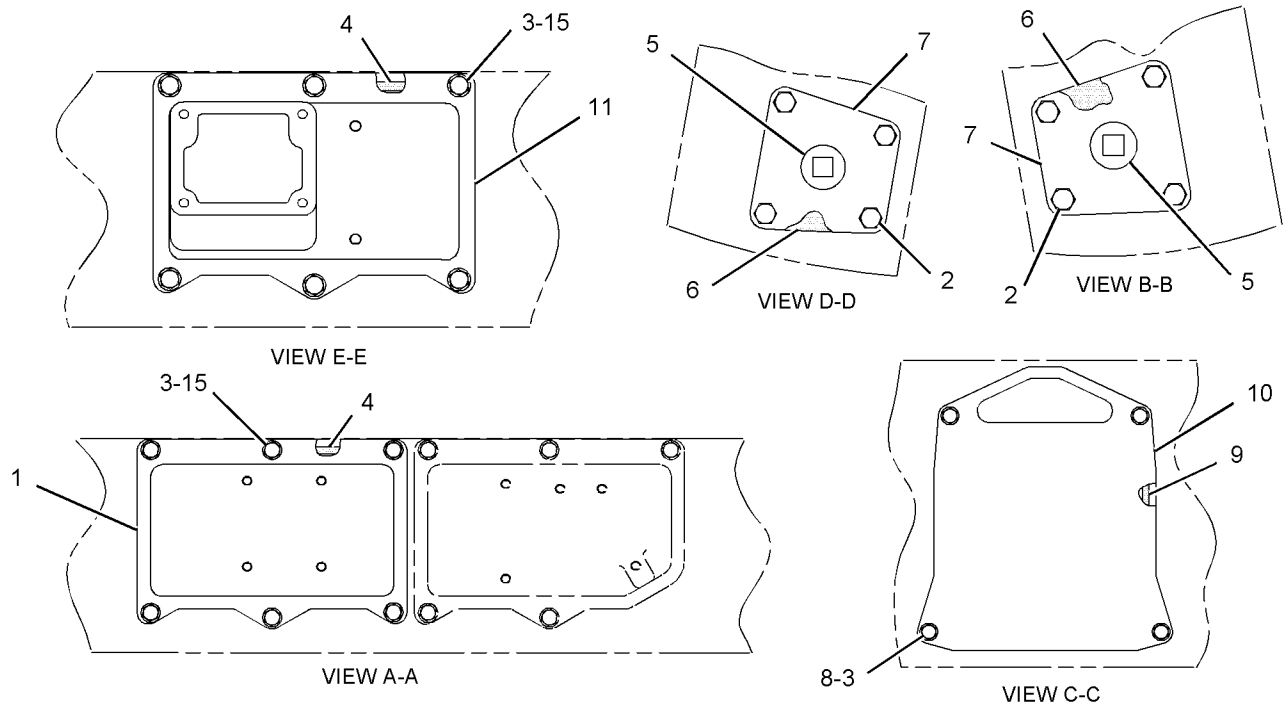
i02615463

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	8N-9992	13	COVER-CAMSHAFT	
	2	1	0S-1594	12	BOLT (3/8-16X1-IN)	
	3	1	5M-2894	148	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	4	1	272-0758	14	SEAL	
	5	1	8T-6761	3	PLUG-PIPE	
	6	1	7N-4945	3	GASKET	
	7	1	7N-3298	3	COVER-BLOCK	
	8	1	9X-8872	64	BOLT-LOCKING (3/8-16X0.875-IN)	
	9	1	272-0759	16	SEAL	
	10	1	1N-2914	16	COVER-CYLINDER BLOCK SIDE	
	11	1	8N-9993	1	COVER-CAMSHAFT	
	12	1	4W-5015	1	COVER	
	13	1	0S-1595	4	BOLT (1/2-13X1.25-IN)	
	14	1	5P-8245	4	WASHER-HARD (13.5X25.5X3-MM THK)	
	15	1	1A-2029	84	BOLT (3/8-16X1.125-IN)	

BASIC ENGINE

9Y-6123 COVER GP-CYLINDER BLOCK (contd.)

i02615463



FRONT VIEW
<END>

GRAPHIC #1

g01058466

BASIC ENGINE

135-6951 COVER GP-CYLINDER BLOCK-CENTRAL STRUCTURE

S/N: ZBA1-UP

SMCS-1201

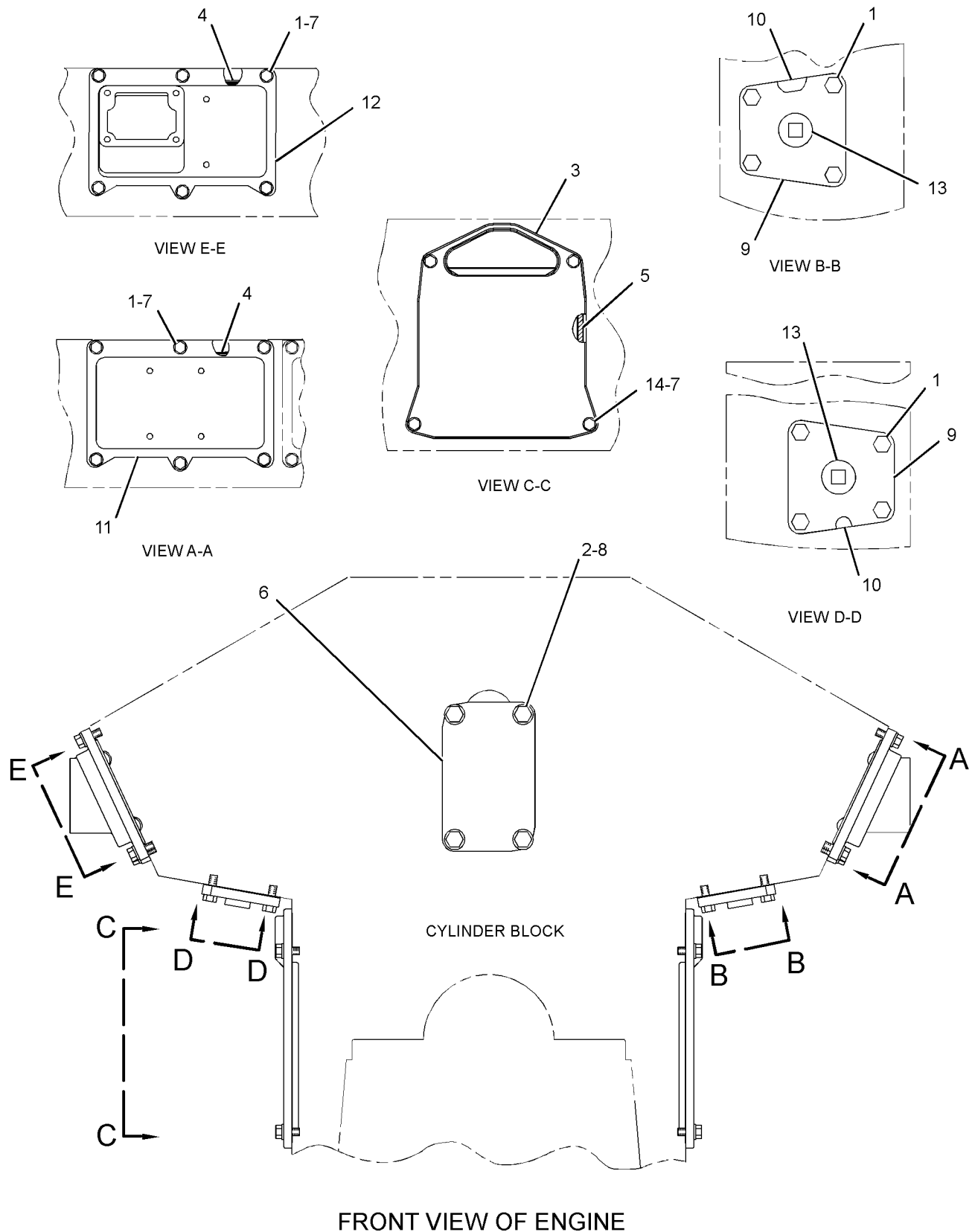
i02615473

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	0S-1594	90	BOLT (3/8-16X1-IN)						
	2	1	0S-1595	4	BOLT (1/2-13X1.25-IN)						
	3	1	1N-2914	16	COVER-CYLINDER BLOCK SIDE						
	4	1	272-0758	14	SEAL						
	5	1	272-0759	16	SEAL						
	6	1	4W-5015	1	COVER						
	7	1	5M-2894	142	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	8	1	5P-8245	4	WASHER-HARD (13.5X25.5X3-MM THK)						
	9	1	7N-3298	3	COVER-BLOCK						
	10	1	7N-4945	3	GASKET						
	11	1	8N-9992	13	COVER-CAMSHAFT						
	12	1	8N-9993	1	COVER-CAMSHAFT						
	13	1	8T-6761	3	PLUG-PIPE						
	14	1	9X-8872	64	BOLT-LOCKING (3/8-16X0.875-IN)						

BASIC ENGINE

135-6951 COVER GP-CYLINDER BLOCK (contd.)

i02615473



GRAPHIC #1

<END>

g01377421

BASIC ENGINE

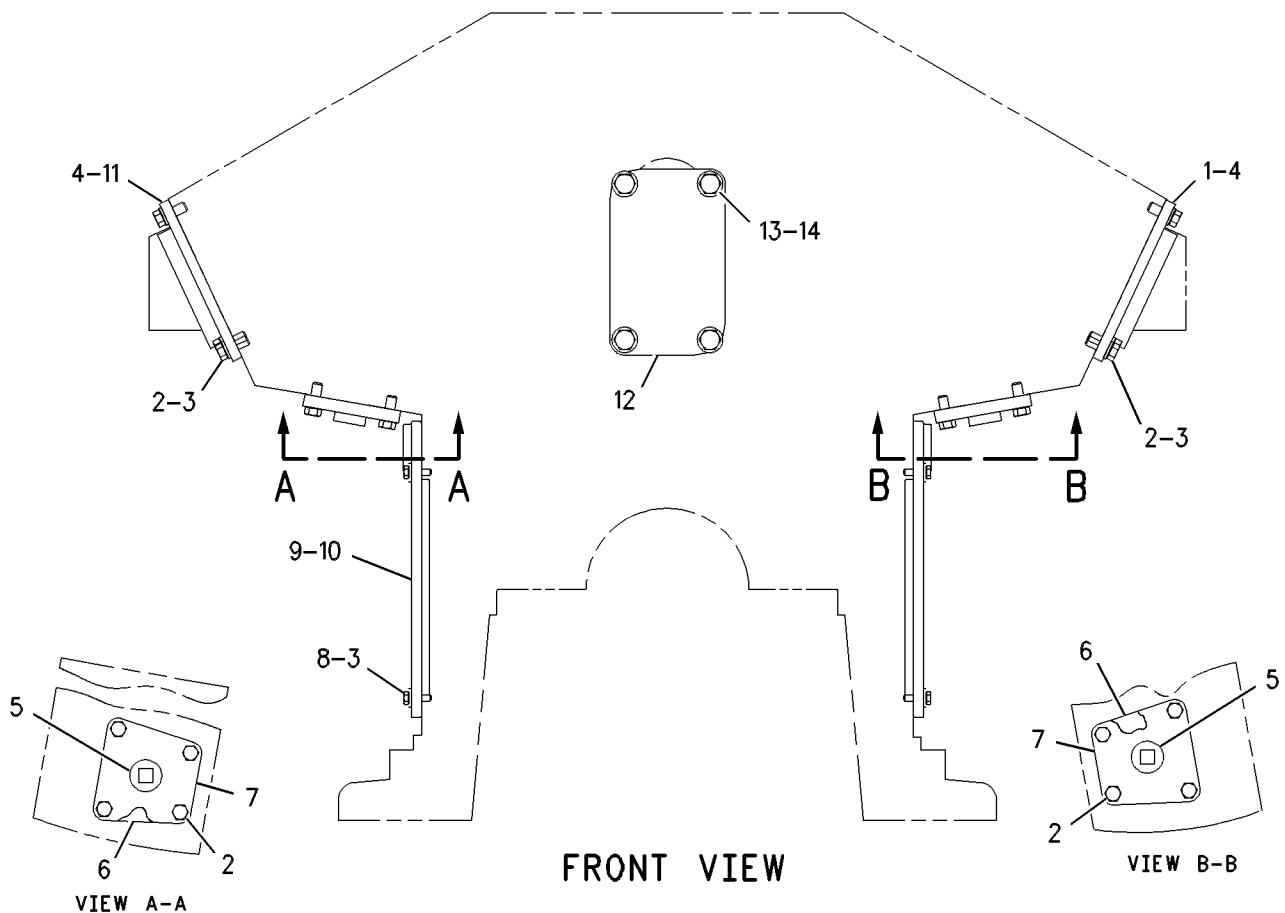
172-0095 COVER GP-CYLINDER BLOCK

S/N: ZBA1-UP

SMCS-1201

i02615480

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8N-9992	12	COVER-CAMSHAFT						
	2	1	0S-1594	90	BOLT (3/8-16X1-IN)						
	3	1	5M-2894	142	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	4	1	272-0758	13	SEAL						
	5	1	8T-6761	3	PLUG-PIPE						
	6	1	7N-4945	3	GASKET						
	7	1	7N-3298	3	COVER-BLOCK						
	8	1	9X-8872	64	BOLT-LOCKING (3/8-16X0.875-IN)						
	9	1	272-0759	16	SEAL						
	10	1	1N-2914	16	COVER-CYLINDER BLOCK SIDE						
	11	1	8N-9993	1	COVER-CAMSHAFT						
	12	1	4W-5015	1	COVER						
	13	1	0S-1595	4	BOLT (1/2-13X1.25-IN)						
	14	1	5P-8245	4	WASHER-HARD (13.5X25.5X3-MM THK)						



GRAPHIC #1

<END>

g00599210

BASIC ENGINE

276-4639 COVER GP-CYLINDER BLOCK-CENTRAL STRUCTURE

S/N: ZBA183-UP

SMCS-1201

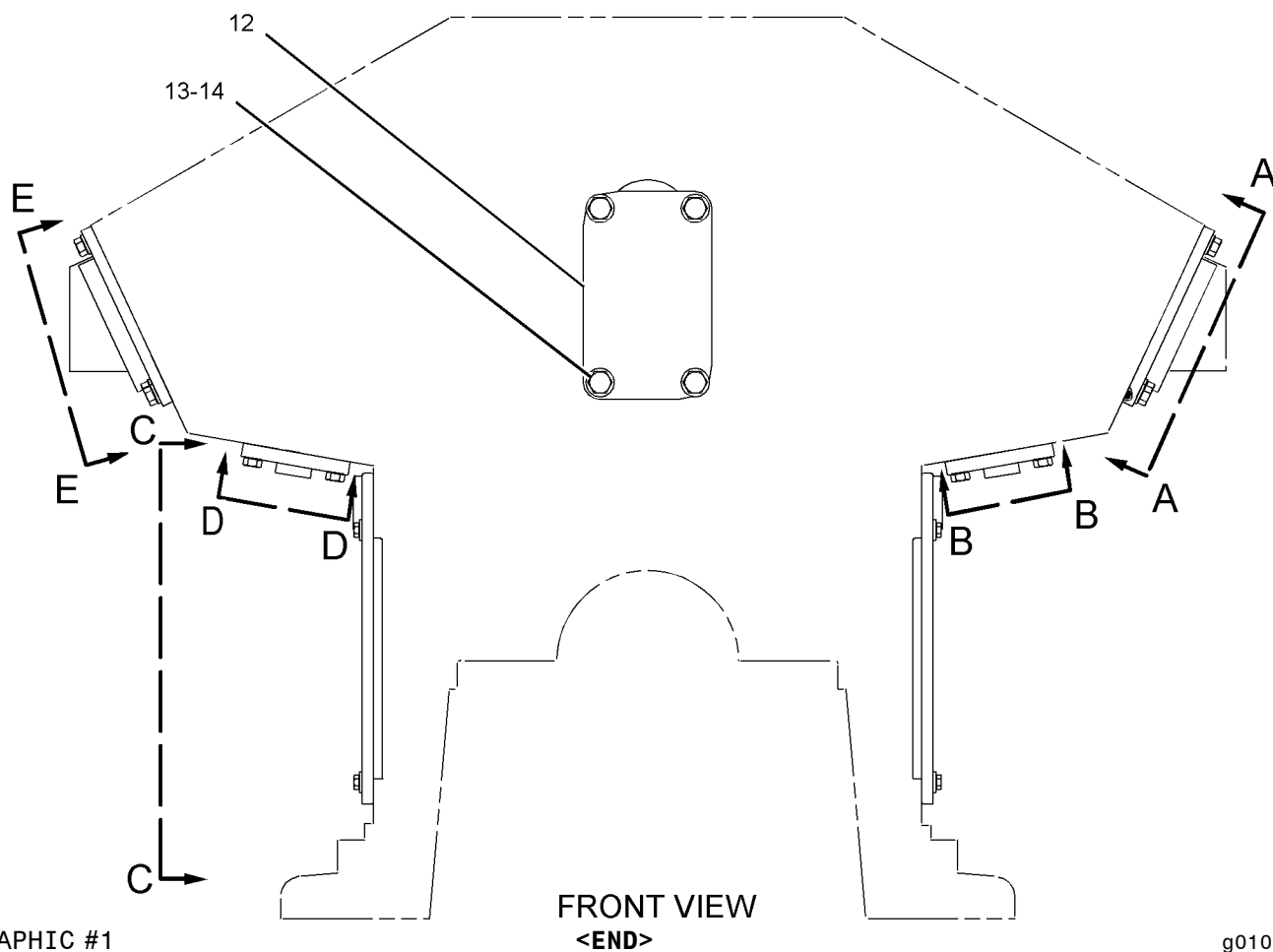
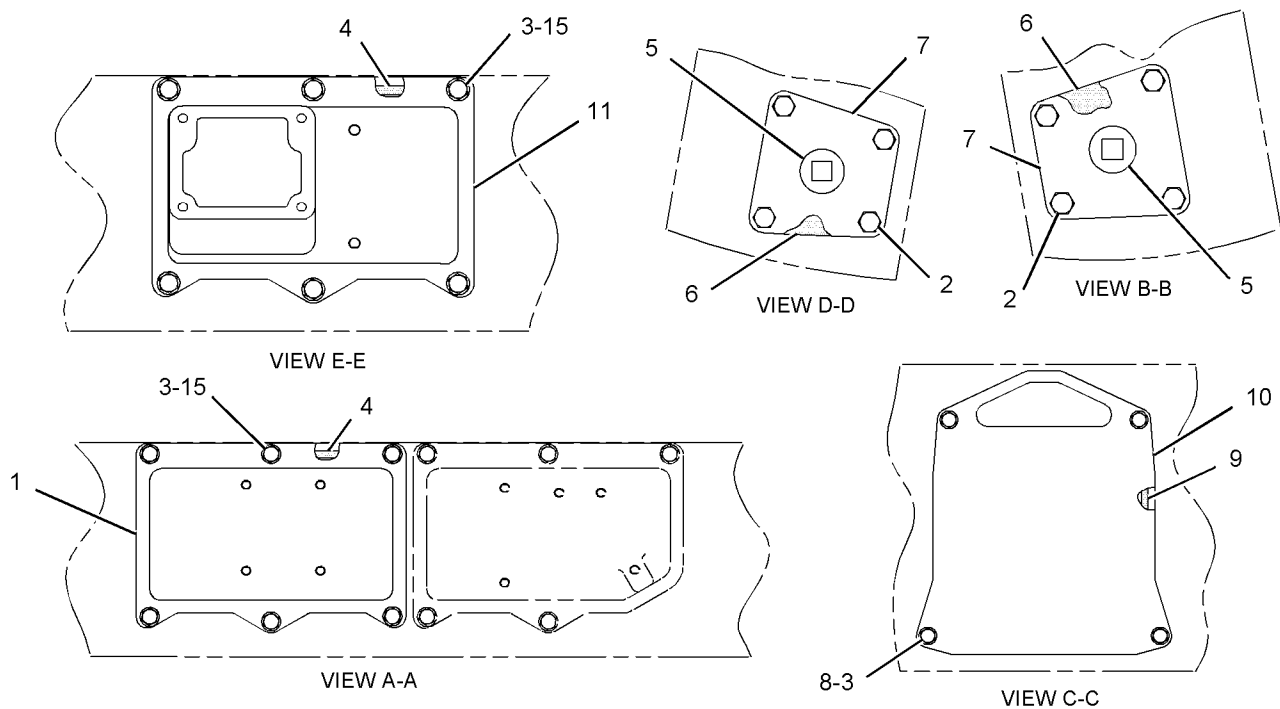
i02375343

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8N-9992	13	COVER-CAMSHAFT						
	2	1	0S-1594	12	BOLT (3/8-16X1-IN)						
	3	1	5M-2894	148	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	4	1	272-0758	14	SEAL						
	5	1	8T-6761	3	PLUG-PIPE						
	6	1	7N-4945	3	GASKET						
	7	1	7N-3298	3	COVER-BLOCK						
	8	1	9X-8872	64	BOLT-LOCKING (3/8-16X0.875-IN)						
	9	1	272-0759	16	SEAL						
	10	1	1N-2914	16	COVER-CYLINDER BLOCK SIDE						
	11	1	8N-9993	1	COVER-CAMSHAFT						
	12	1	4W-5015	1	COVER						
	13	1	0S-1595	4	BOLT (1/2-13X1.25-IN)						
	14	1	5P-8245	4	WASHER-HARD (13.5X25.5X3-MM THK)						
	15	1	1A-2029	84	BOLT (3/8-16X1.125-IN)						

BASIC ENGINE

276-4639 COVER GP-CYLINDER BLOCK (contd.)

i02375343



GRAPHIC #1

g01058466

BASIC ENGINE

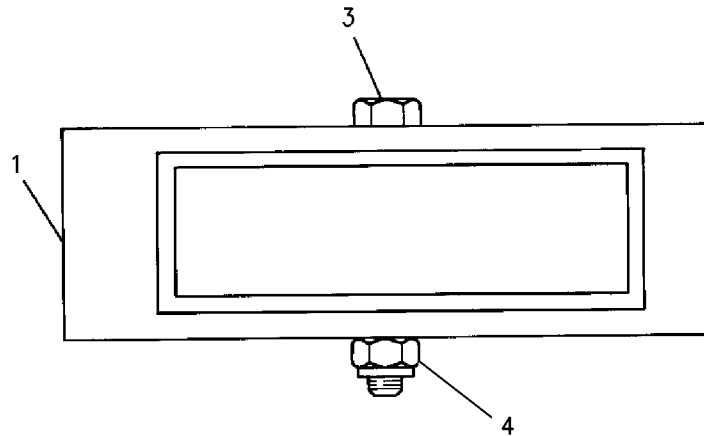
3N-8594 COVER GP-ENGINE LIFTING EYE

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1122

i02459381

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3N-8593	1	COVER-EYE						
	3	1	8T-9368	1	BOLT (1/4-20X2.25-IN)						
	4	1	3E-9865	1	LOCKNUT (1/4-20-THD)						



GRAPHIC #1

<END>

g00720602

BASIC ENGINE

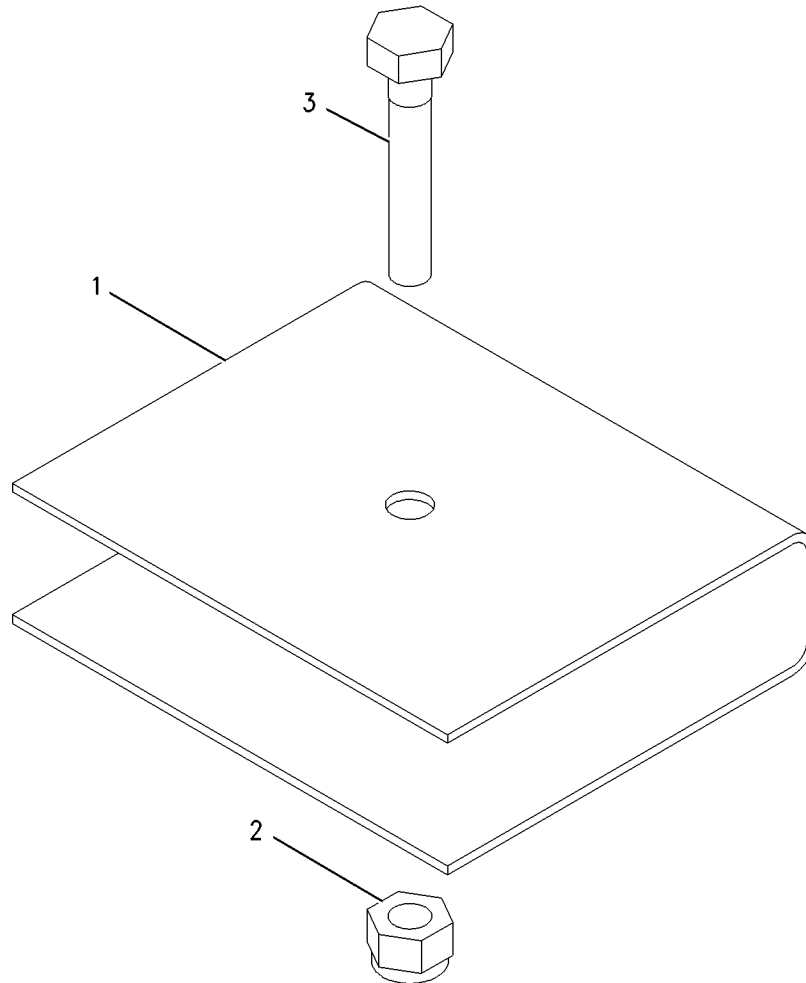
225 - 7845 COVER GP - ENGINE LIFTING EYE

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1122

i02327555

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	225-7846	1	COVER-LIFTING EYE						
	2	1	3E-9865	1	LOCKNUT (1/4-20-THD)						
	3	1	4M-5282	1	BOLT (1/4-20X1.5-IN)						



GRAPHIC #1

<END>

g00984636

BASIC ENGINE

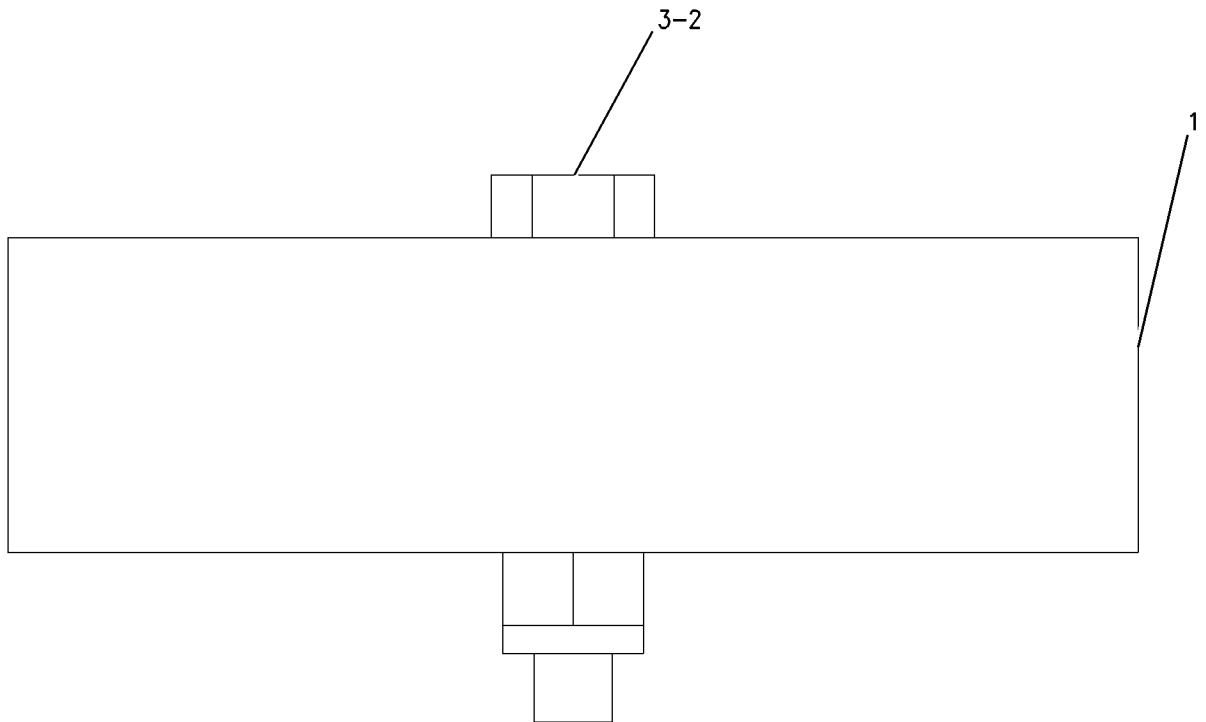
226-1771 COVER GP-ENGINE LIFTING EYE

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1122

i02327557

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	226-1781	1	COVER-LIFTING EYE						
	2	1	3E-9865	1	LOCKNUT (1/4-20-THD)						
	3	1	4M-5282	1	BOLT (1/4-20X1.5-IN)						



GRAPHIC #1

<END>

g00999051

BASIC ENGINE

4P-8309 COVER GP-FLYWHEEL HOUSING

S/N: ZBA1-UP

SMCS-1157

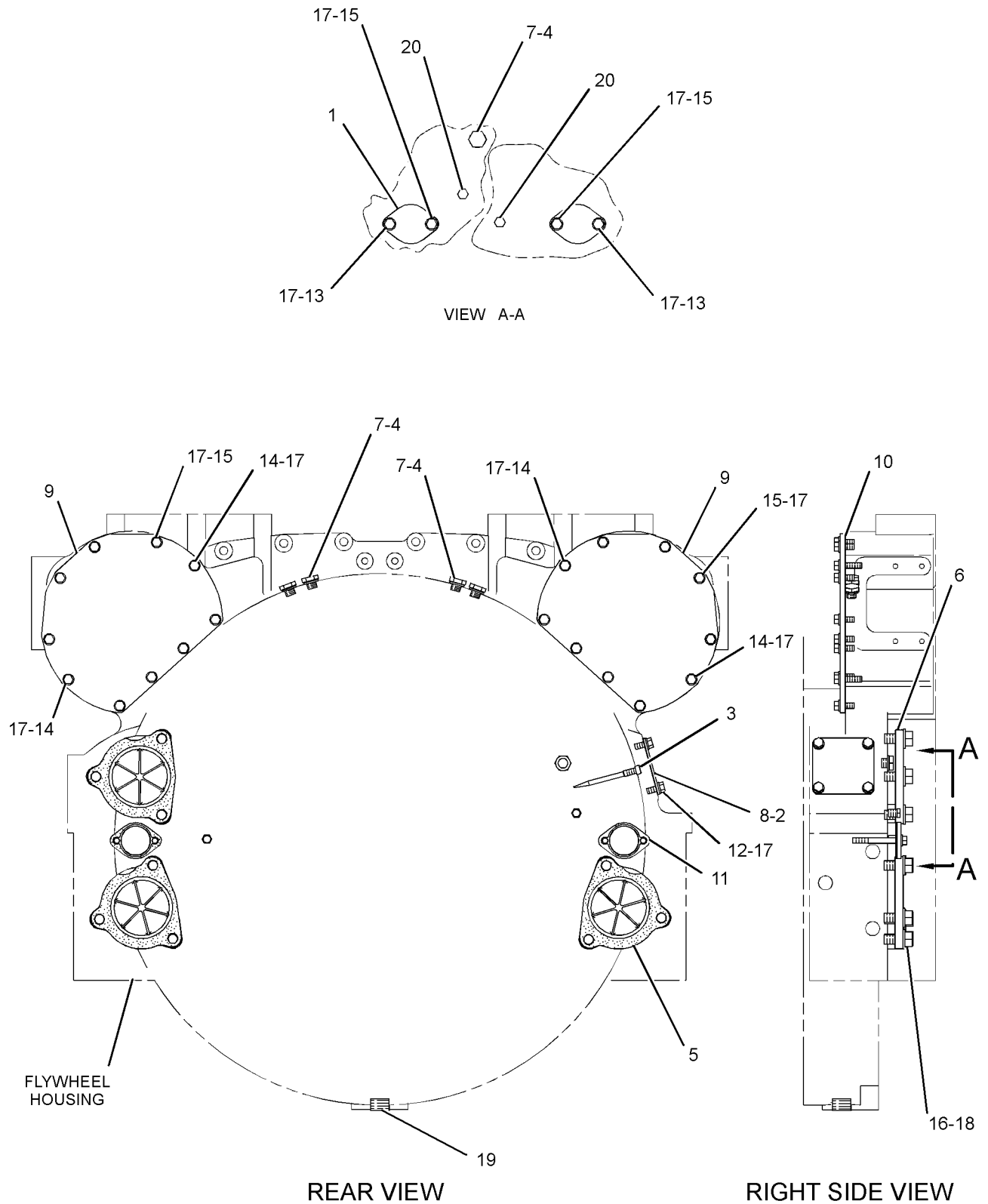
i02786537

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2P-2772	2	COVER						
	2	1	2S-1251	1	GASKET						
	3	1	2W-7504	1	POINTER-TIMING						
	4	1	4B-8407	5	GASKET-COPPER						
	5	1	4H-7869	3	GASKET						
	6	1	4N-1114	3	COVER						
	7	1	5F-0304	5	PLUG						
	8	1	7F-7670	1	COVER						
	9	1	7N-4319	2	COVER						
	10	1	7N-4320	2	GASKET						
	11	1	234-8937	2	SEAL-INTEGRAL						
	12	1	0L-1351	4	BOLT (3/8-16X0.875-IN)						
	13	1	0L-1352	2	BOLT (3/8-16X3.25-IN)						
	14	1	0S-1591	4	BOLT (3/8-16X1.5-IN)						
	15	1	0S-1594	18	BOLT (3/8-16X1-IN)						
	16	1	4B-4043	9	BOLT (5/8-11X1.375-IN)						
	17	1	5M-2894	28	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	18	1	5P-8247	9	WASHER-HARD (17X32X3.5-MM THK)						
	19	1	8T-6761	1	PLUG-PIPE						
	20	1	8T-6765	2	PLUG-PIPE						

BASIC ENGINE

4P-8309 COVER GP-FLYWHEEL HOUSING (contd.)

i02786537



GRAPHIC #1

<END>

g01254254

BASIC ENGINE

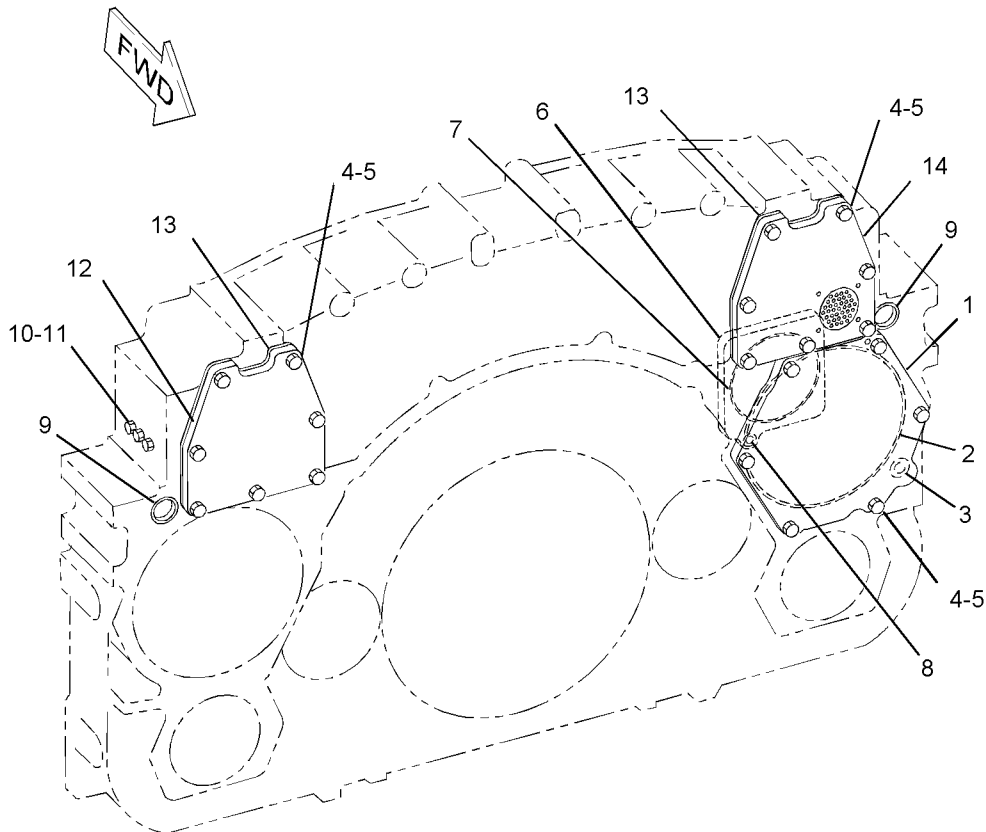
4P-8304 COVER GP - FRONT HOUSING

S/N: ZBA1-UP

SMCS-1151, 1166

i02235892

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7N-4951	1	COVER						
	2	1	235-3546	1	SEAL-O-RING						
	3	1	6V-3348	1	SEAL-O-RING						
	4	1	1A-2029	24	BOLT (3/8-16X1.125-IN)						
	5	1	5M-2894	24	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	6	1	7N-4952	1	COVER						
	7	1	235-3548	1	SEAL-O-RING						
	8	1	5P-0840	1	SEAL-O-RING						
	9	1	3P-1896	2	PLUG-CUP						
	10	1	1B-4218	6	WASHER (0.39X0.625X0.064-IN THK)						
	11	1	2A-5220	6	PLUG (FRONT HOUSING)						
	12	1	2W-5285	1	COVER						
	13	1	8N-9885	2	GASKET-COVER						
	14	1	4P-6596	1	COVER						



GRAPHIC #1

<END>

g01123204

BASIC ENGINE

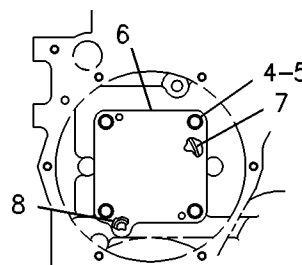
4P-8305 COVER GP - FRONT HOUSING

S/N: ZBA1-UP

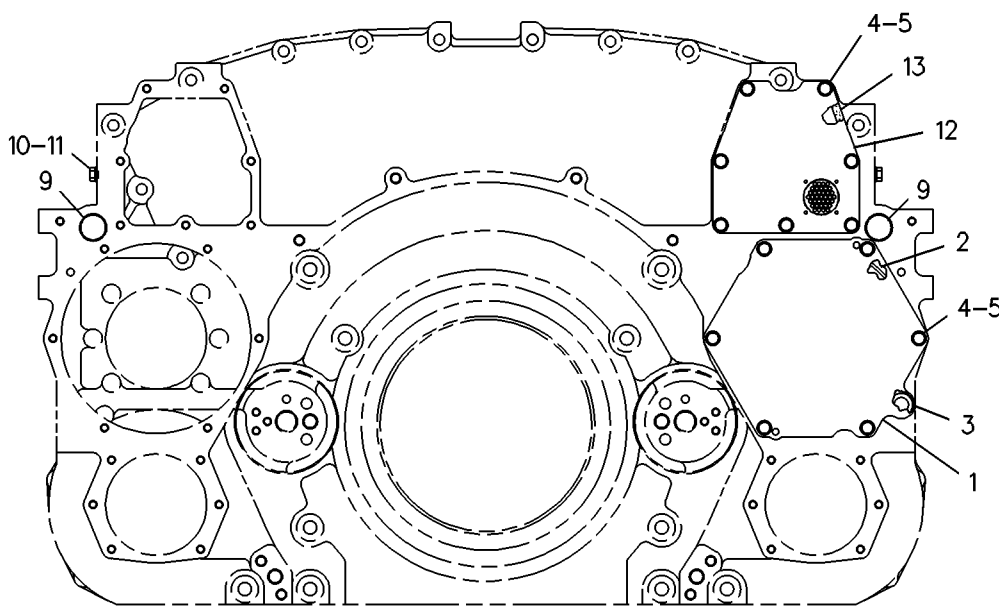
SMCS-1151, 1166

i01955708

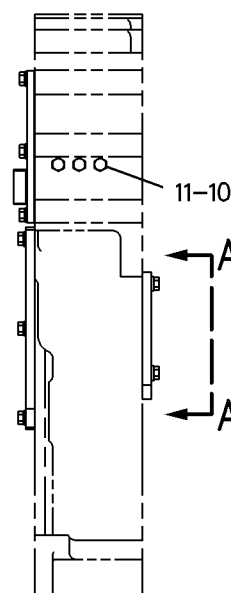
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7N-4951	1	COVER						
	2	1	235-3546	1	SEAL-O-RING						
	3	1	6V-3348	1	SEAL-O-RING						
	4	1	1A-2029	17	BOLT (3/8-16X1.125-IN)						
	5	1	5M-2894	17	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	6	1	7N-4952	1	COVER						
	7	1	235-3548	1	SEAL-O-RING						
	8	1	5P-0840	1	SEAL-O-RING						
	9	1	3P-1896	2	PLUG-CUP						
	10	1	1B-4218	6	WASHER (0.39X0.625X0.064-IN THK)						
	11	1	2A-5220	6	PLUG						
	12	1	4P-6596	1	COVER						
	13	1	8N-9885	1	GASKET-COVER						



VIEW A-A



FRONT VIEW



LEFT SIDE VIEW

GRAPHIC #1

<END>

g00230932

BASIC ENGINE

4W-4839 COVER GP - FRONT HOUSING

S/N: ZBA1-UP

FOR USE WITH RAW WATER AFTERCOOLER AND AIR LINES. CANNOT BE USED WITH 7W-1530
HOUSING GP-FRONT
AN ATTACHMENT

SMCS-1151, 1166

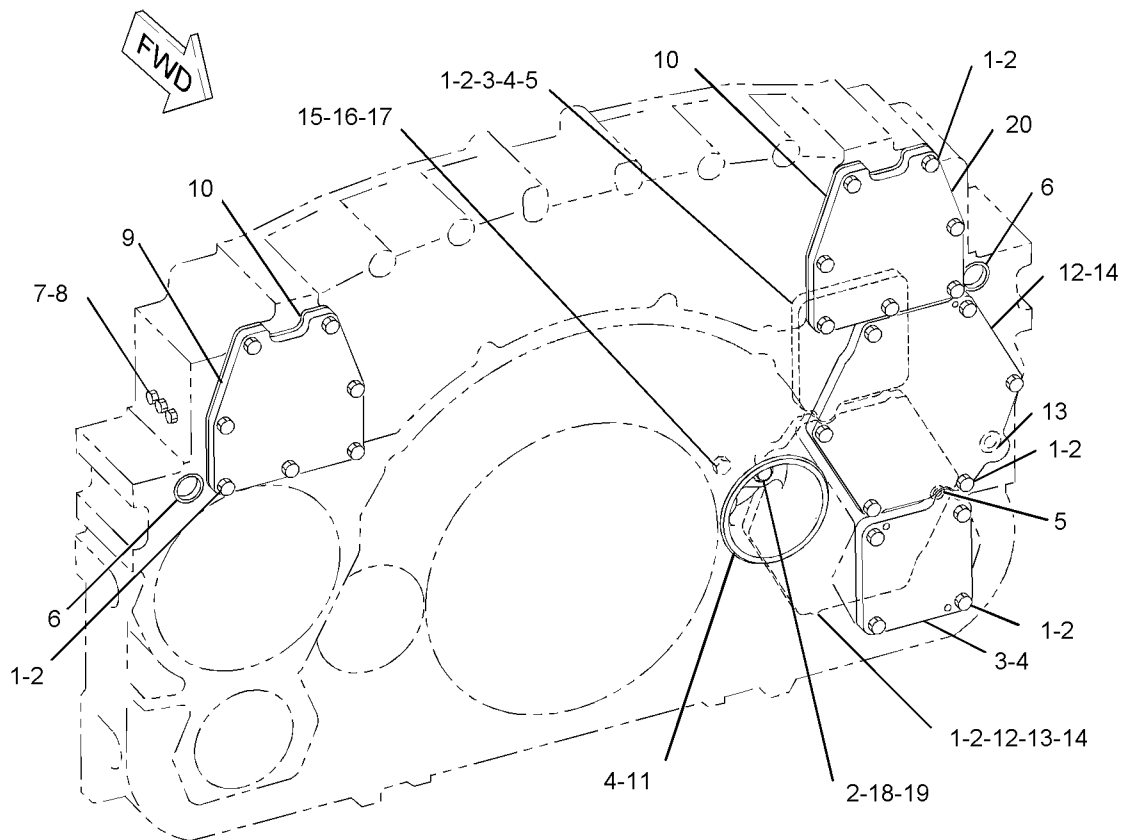
i02226412

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1A-2029	34	BOLT (3/8-16X1.125-IN)						
	2	1	5M-2894	35	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	3	1	7N-4952	2	COVER						
	4	1	235-3548	3	SEAL-O-RING						
	5	1	5P-0840	2	SEAL-O-RING						
	6	1	3P-1896	2	PLUG-CUP						
	7	1	1B-4218	6	WASHER (0.39X0.625X0.064-IN THK)						
	8	1	2A-5220	6	PLUG (FRONT HOUSING)						
	9	1	2W-5285	1	COVER						
	10	1	8N-9885	2	GASKET-COVER						
	11	1	8N-9658	1	PLUG						
	12	1	7N-4951	2	COVER						
	13	1	6V-3348	2	SEAL-O-RING						
	14	1	235-3546	2	SEAL-O-RING						
	15	1	9X-8874	2	BOLT (1/2-13X3-IN)						
	16	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
	17	1	5R-7136	1	WASHER-SEALING						
	18	1	1C-2251	1	BOLT (3/8-16X1.87-IN)						
	19	1	5R-7137	2	WASHER-SEALING						
	20	1	4P-6596	2	COVER						

BASIC ENGINE

4W-4839 COVER GP-FRONT HOUSING (contd.)

i02226412



GRAPHIC #1

<END>

g01123329

BASIC ENGINE

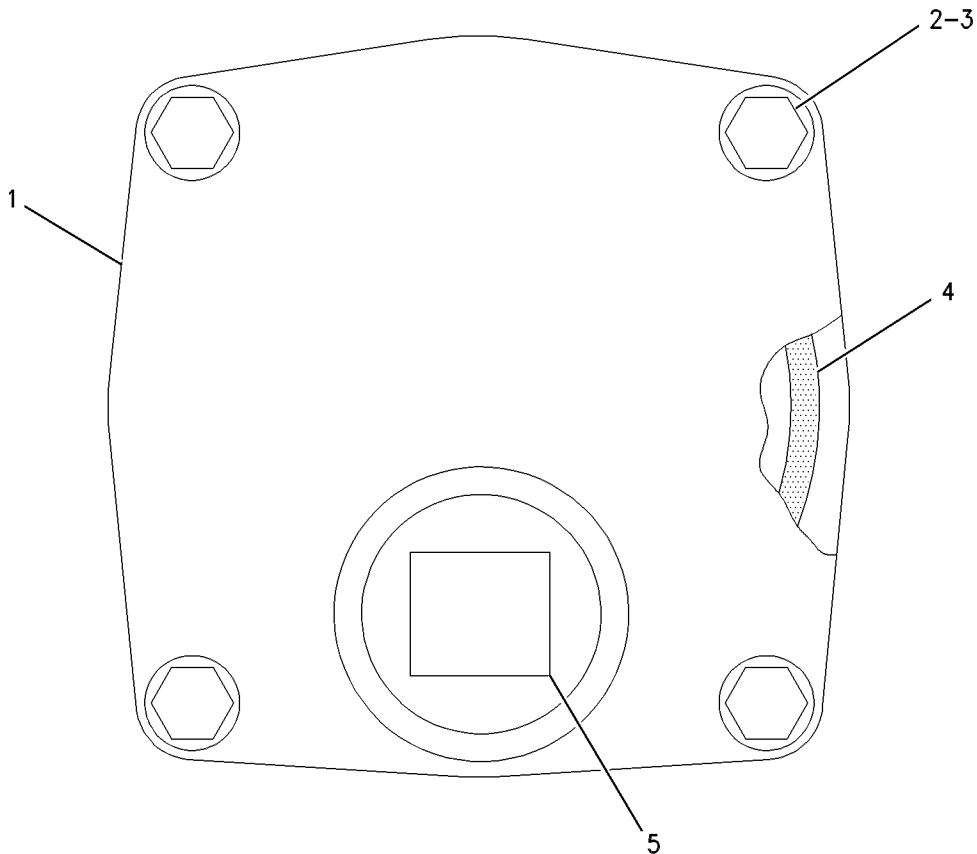
2W-5616 COVER GP-OIL PAN

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1302

i02776823

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	1	1	151-9264	1	COVER AS						
C	2	1	0S-1588	4	BOLT (3/8-16X1.25-IN)						
C	3	1	8M-9024	4	WASHER-HARD (10.2X22.5X5-MM THK)						
C	4	1	6V-7351	1	SEAL-O-RING						
	5	1	9X-6138	1	PLUG-PIPE (ENGINE OIL DRAIN)						
C-CHANGE FROM PREVIOUS TYPE											



GRAPHIC #1

<END>

g00617879

BASIC ENGINE

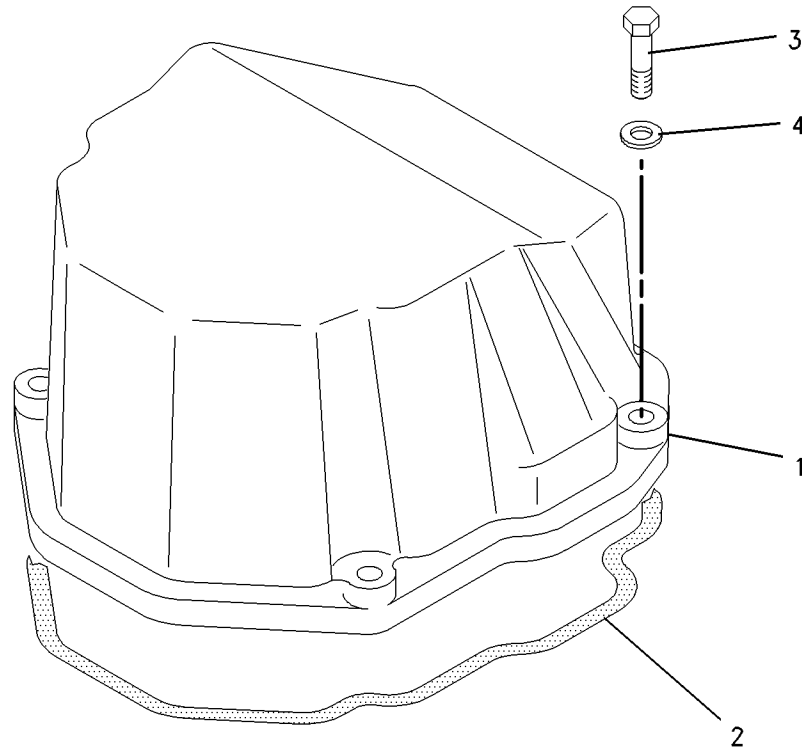
4P-8310 COVER GP-VALVE MECHANISM

S/N: ZBA1-UP

SMCS-1107

i02693982

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4P-8311	1	COVER-VALVE MECHANISM						
	2	1	272-0757	1	SEAL (VALVE COVER)						
	3	1	1A-9579	4	BOLT (5/16-18X1.5-IN)						
	4	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)						



GRAPHIC #1

<END>

g00734615

BASIC ENGINE

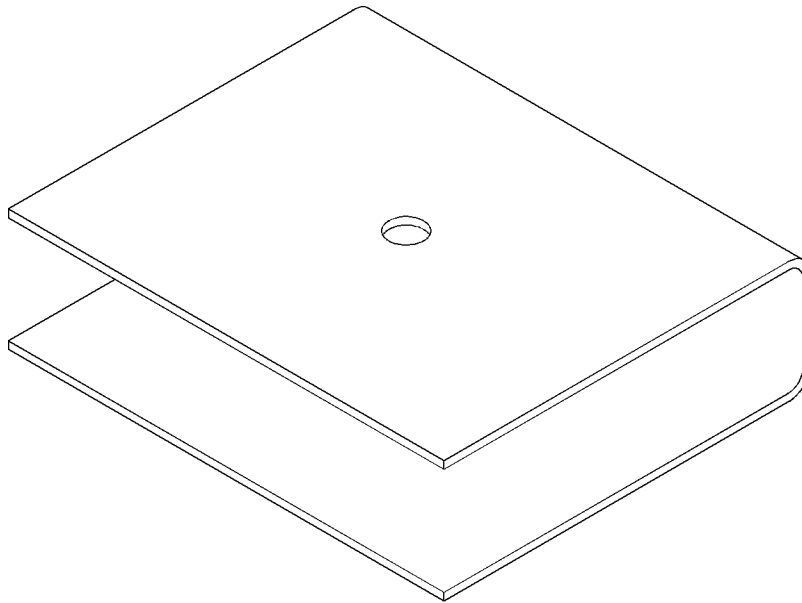
225 - 7846 COVER-LIFTING EYE

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1122

i02180812

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



GRAPHIC #1

<END>

g01103700

BASIC ENGINE

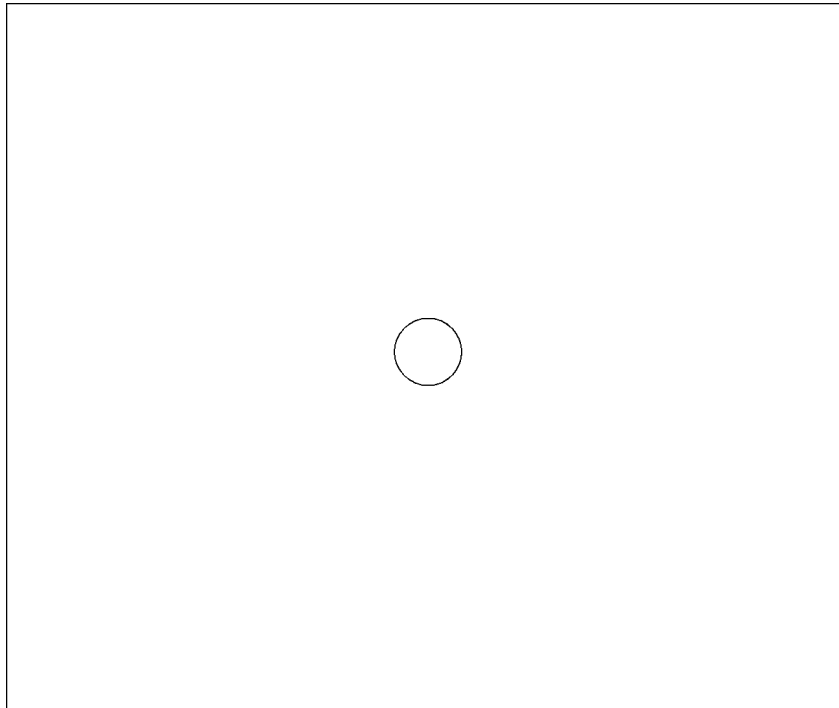
226-1781 COVER-LIFTING EYE

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1122

i02177439

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



GRAPHIC #1

<END>

g01102806

BASIC ENGINE

8N-0337 CRANKSHAFT GP

S/N: ZBA1-UP

SMCS-1202

i02781451

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
R	1	1	128-6788	1	CRANKSHAFT AS	
	2	1	128-4845	48	BOLT AS (COUNTERWEIGHT)	
	3	1	7N-2003	32	DOWEL	
	4	1	2W-2288	8	PLUG	
J	5	1	7C-6209	2	PLATE-THRUST	
CJ	6	1	149-6031	9	BEARING AS-MAIN (STANDARD)	
ABC		1	149-6032		BEARING-MAIN (0.63-MM US ID)	
ABC		1	149-6033		BEARING-MAIN (1.27-MM US ID)	
ABC		1	149-6034		BEARING-MAIN (0.63-MM OS OD)	
ABC		1	149-6035		BEARING-MAIN (0.63-MM US ID - 0.63-MM OS OD)	
AVAILABLE REPAIR KIT(S):						
J			196-9531		KIT-BASIC ENGINE REPAIR (MAIN BEARING)	
(INCLUDES THRUST PLATES AND MAIN BEARINGS)						

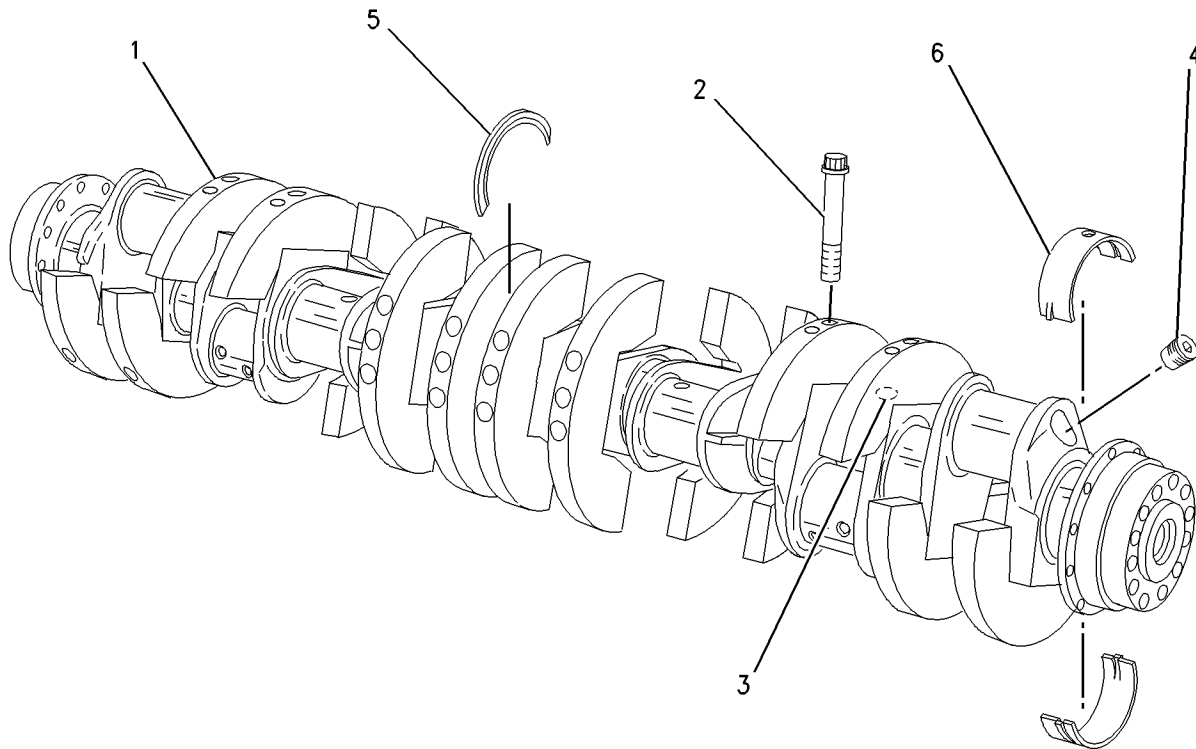
A - NOT PART OF THIS GROUP

B - USE AS REQUIRED

C - CHANGE FROM PREVIOUS TYPE

J - KIT MARKED J INCLUDES PARTS MARKED J

R - REMFG PART MAY BE AVAILABLE



GRAPHIC #1

<END>

g00710757

BASIC ENGINE

101-1173 CYLINDER BLOCK AS

S/N: ZBA1-UP

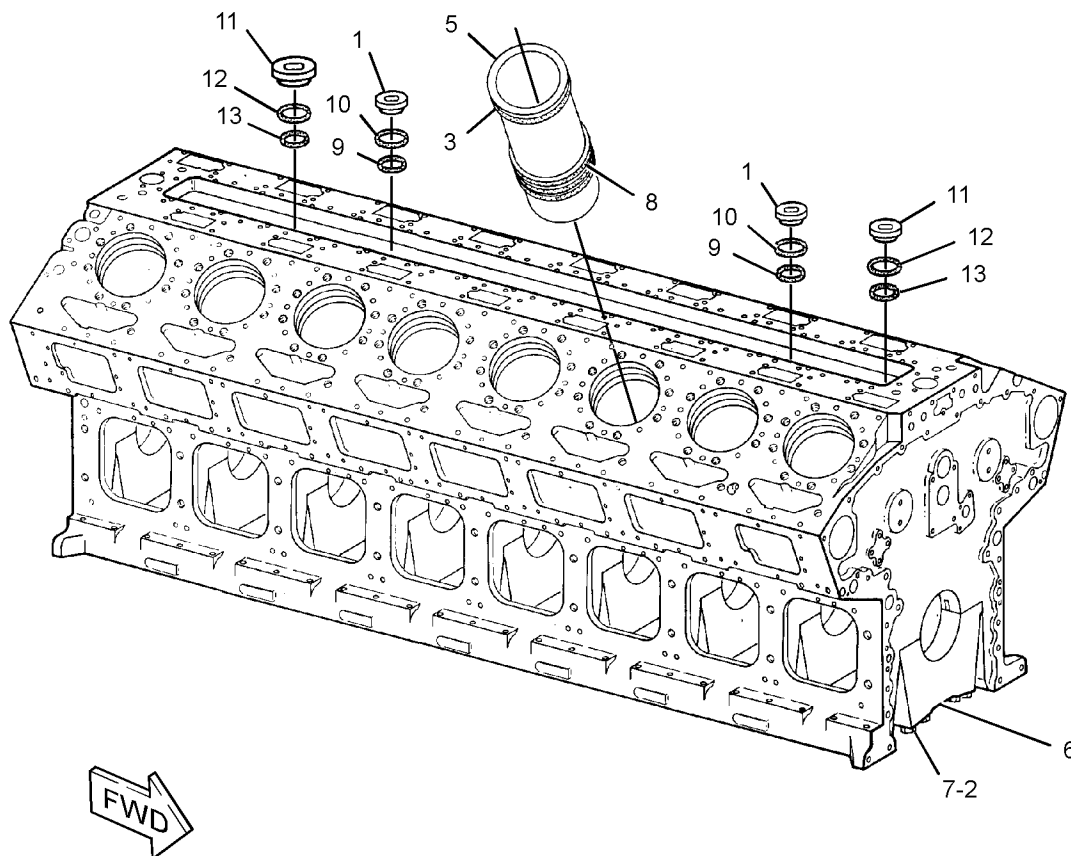
PART OF 115-5159 CYLINDER BLOCK GP
FIELD REPLACEMENT ORDER 115-5160-PAGE 73

SMCS-1201

i02629910

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4W-4813	2	PLUG						
	2	1	7X-7925	36	BOLT (7/8-14X11-IN)						
	3	1	8N-4707	16	BAND-FILLER						
	5	1	211-7826	16	LINER-CYLINDER						
	6	1	223-1696	9	CAP-CRANKSHAFT BEARING						
	7	1	5P-8249	36	WASHER-HARD (24X41.5X4-MM THK)						
	8	1	7N-2046	48	SEAL-O-RING						
	9	1	8T-2928	2	SEAL-O-RING						
	10	1	8T-2929	2	SEAL-O-RING						
B	11	1	4W-4813	2	PLUG						
B	12	1	8T-2928	2	SEAL-O-RING						
B	13	1	8T-2929	2	SEAL-O-RING						

B-USE AS REQUIRED



GRAPHIC #1

<END>

g01318852

BASIC ENGINE

106-2780 CYLINDER BLOCK AS

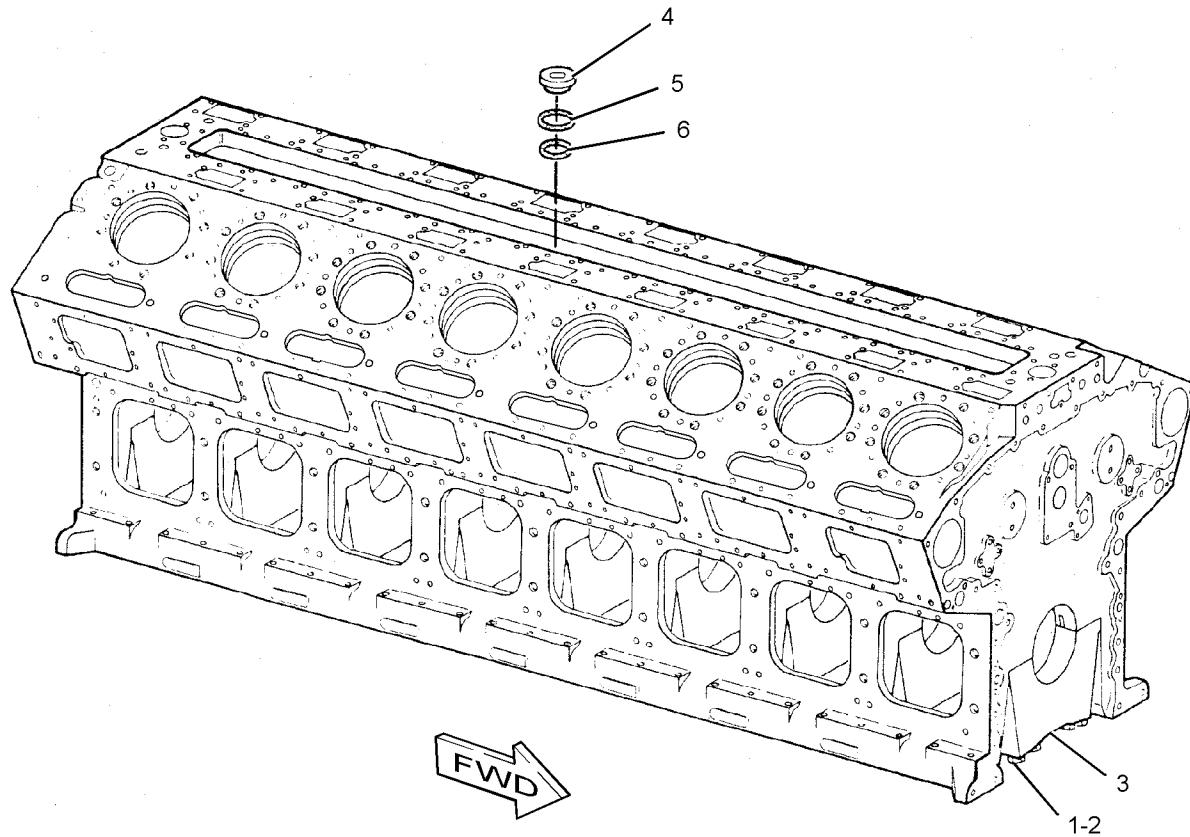
S/N: ZBA1-UP

PART OF 115-5160 CYLINDER BLOCK GP

SMCS-1201

i02768067

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-8249	36	WASHER-HARD (24X41.5X4-MM THK)						
	2	1	7X-7925	36	BOLT (7/8-14X11-IN)						
	3	1	223-1696	9	CAP-CRANKSHAFT BEARING						
	4	1	4W-4813	4	PLUG						
	5	1	8T-2929	4	SEAL-O-RING						
	6	1	8T-2928	4	SEAL-O-RING						



GRAPHIC #1

<END>

g01384705

BASIC ENGINE

115-5159 CYLINDER BLOCK GP

S/N: ZBA1-UP

SMCS-1201

i02499753

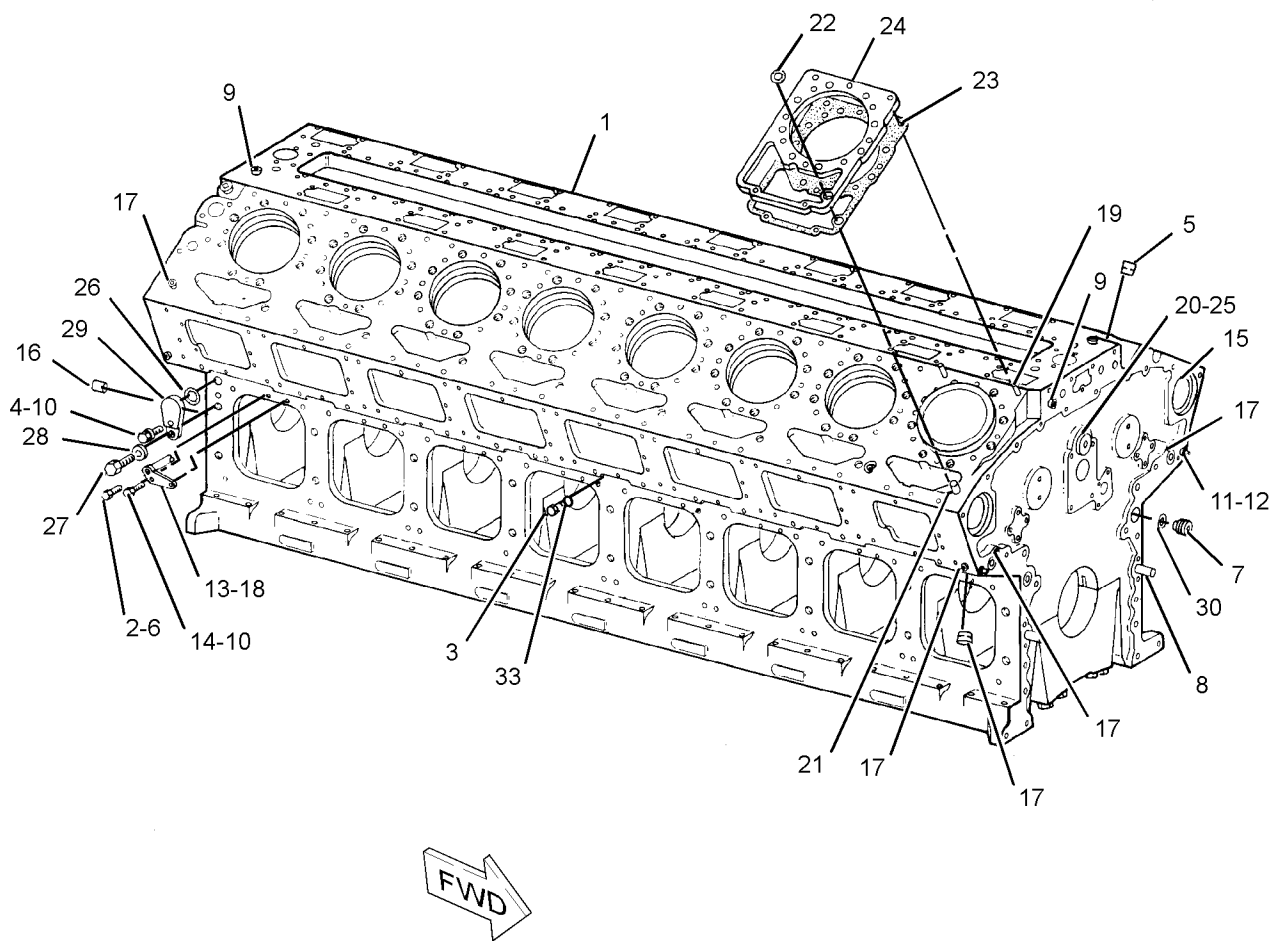
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	101-1173	1	CYLINDER BLOCK AS						69
	2	1	9M-1974	16	WASHER-HARD (8.8X16X2-MM THK)						
	3	1	9S-4191	6	PLUG-O-RING						
	4	1	1A-2029	2	BOLT (3/8-16X1.125-IN)						
	5	1	7X-7731	2	PLUG-PIPE						
	6	1	1B-2790	16	BOLT (5/16-18X1.375-IN)						
	7	1	2W-2940	8	PLUG (OIL MANIFOLD)						
	8	1	7N-2044	2	DOWEL						
	9	1	8T-6762	3	PLUG-PIPE						
	10	1	5M-2894	18	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	11	1	7N-2047	3	DOWEL						
	12	1	7X-4805	3	SEAL-O-RING						
	13	1	116-3254	16	JET AS-PISTON COOLING						
	14	1	0T-0102	16	BOLT (3/8-16X0.625-IN)						
	15	1	116-1359	18	BEARING-CAMSHAFT						
	16	1	4N-0683	2	DOWEL						
	17	1	8T-6763	26	PLUG-PIPE						
	18	1	1W-4188	16	RETAINER AS (OIL COOLING JET)						
					(EACH INCLUDES)						
		1	8N-9943	1	RETAINER						
		1	6V-3537	1	DOWEL						
	19	1	8T-0099	32	DOWEL						
	20	1	7N-5641	2	PLUG-MANIFOLD						
	21	1	197-7008	16	DOWEL						
	22	1	5P-0840	32	SEAL-O-RING						
	23	1	144-5692	16	GASKET-PLATE						
	24	1	110-6994	16	PLATE-SPACER						
	25	1	5F-9657	4	SEAL-O-RING						
	26	1	5P-8210	2	SEAL-O-RING						
	27	1	0S-1595	2	BOLT (1/2-13X1.25-IN)						
	28	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
	29	1	8N-8056	2	COVER						
	30	1	6V-3348	8	SEAL-O-RING						
	33	1	153-4906	6	SEAL-O-RING						

Y-SEPARATE ILLUSTRATION

BASIC ENGINE

115-5159 CYLINDER BLOCK GP (contd.)

i02499753



GRAPHIC #1

<END>

g01249892

BASIC ENGINE

115-5160 CYLINDER BLOCK GP

S/N: ZBA1-UP

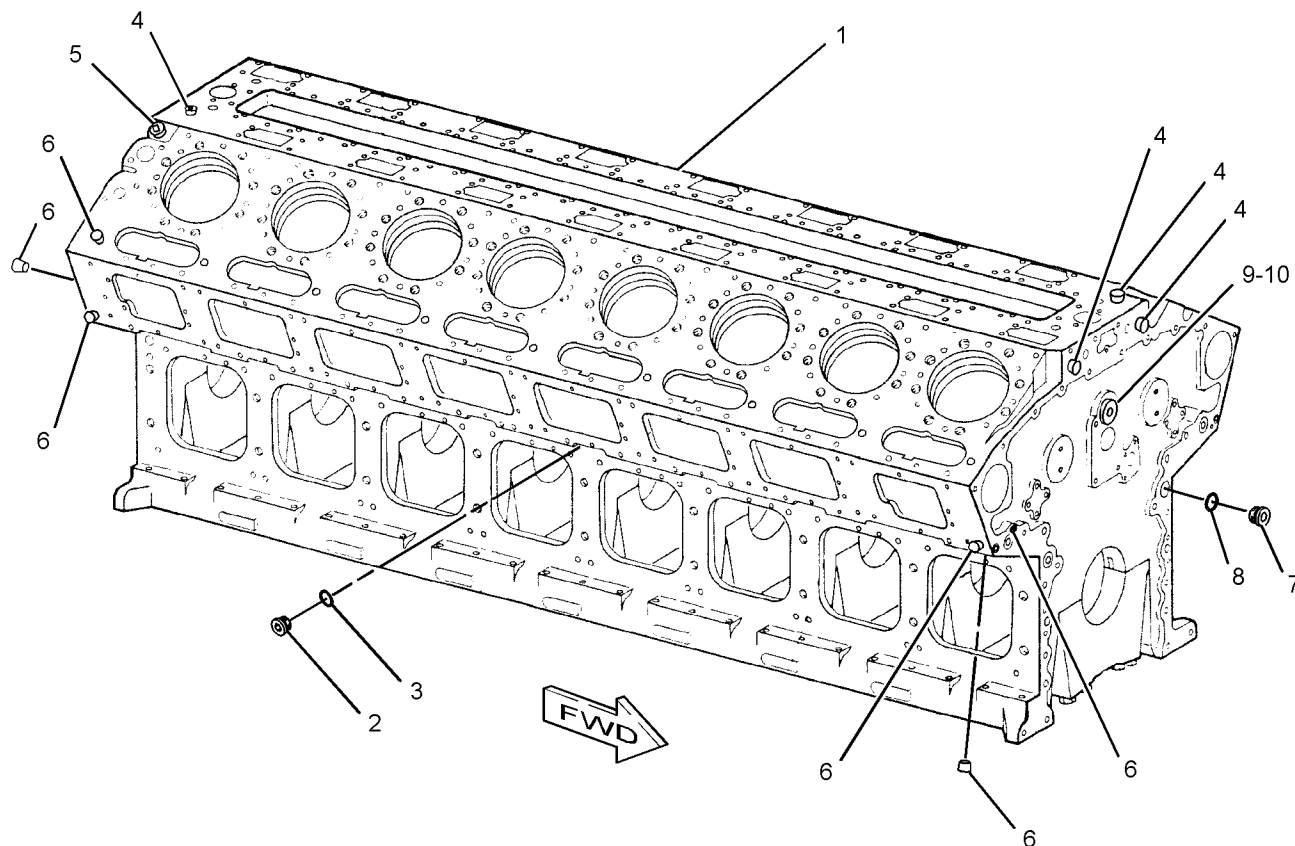
FIELD REPLACEMENT FOR 101-1173—PAGE 69

SMCS-1201

i02768117

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
Y	1	1	106-2780	1	CYLINDER BLOCK AS	70
	2	1	9S-4191	6	PLUG-O-RING	
	3	1	033-6042	6	SEAL-O-RING	
	4	1	8T-6762	4	PLUG-PIPE	
	5	1	7X-7731	2	PLUG-PIPE	
	6	1	8T-6763	26	PLUG-PIPE	
	7	1	2W-2940	8	PLUG (OIL MANIFOLD)	
	8	1	6V-3348	8	SEAL-O-RING	
	9	1	7N-5641	2	PLUG-MANIFOLD	
	10	1	5F-9657	4	SEAL-O-RING	

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01384720

BASIC ENGINE

206 - 1555 CYLINDER HEAD GP

S/N: ZBA1-UP

PART OF 206-1556, 247-4572 CYLINDER HEAD GP

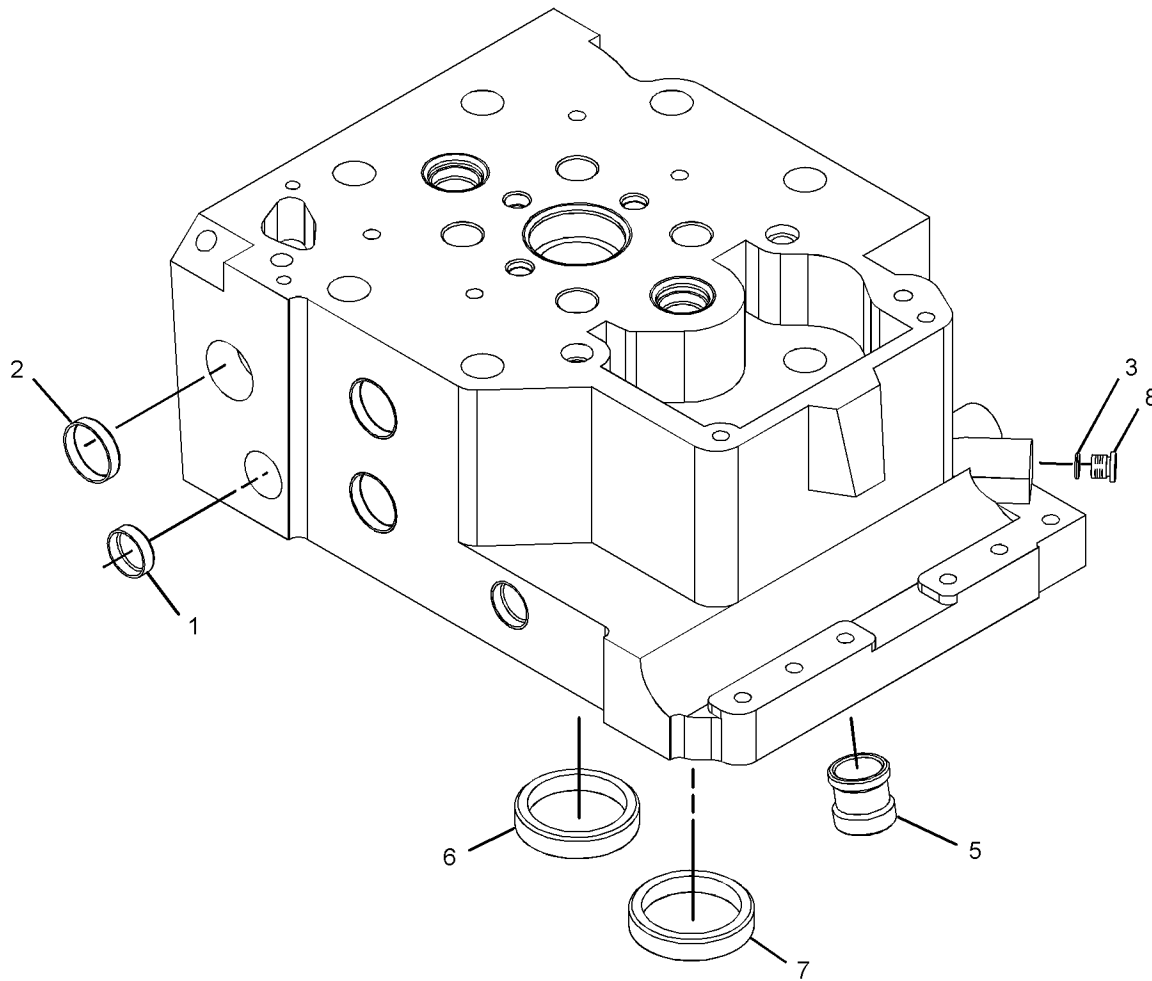
SMCS-1100

i02871524

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3B-0623	5	PLUG-CUP						
	2	1	3B-0645	5	PLUG-CUP						
	3	1	3J-7354	2	SEAL-O-RING						
	5	1	4P-6925	1	SLEEVE-OIL						
	6	1	191-6760	2	INSERT-VALVE SEAT (EXHAUST) (STANDARD)						
AB		1	206-1546		INSERT-VALVE SEAT (EXHAUST 0.254-MM OS OD)						
AB		1	206-1547		INSERT-VALVE SEAT (EXHAUST 0.508-MM OS OD)						
	7	1	257-9166	2	SEAT-VALVE (INLET) (STANDARD)						
AB		1	257-9168		INSERT-VALVE SEAT (INLET 0.254-MM OS OD)						
AB		1	257-9169		INSERT-VALVE SEAT (INLET 0.508-MM OS OD)						
	8	1	9S-8002	2	PLUG-O-RING						

A - NOT PART OF THIS GROUP

B - USE AS REQUIRED



GRAPHIC #1

<END>

g01430073

BASIC ENGINE

206 - 1556 CYLINDER HEAD GP*R

S/N: ZBA1-UP

PART OF 206 - 1558 CYLINDER HEAD GP

SMCS-1100

i02829185

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2A-4429	8	LOCK-RETAINER						
	2	1	7N-1903	4	SPRING-VALVE INNER						
	3	1	7N-1904	4	SPRING-VALVE OUTER						
	4	1	104-7184	2	VALVE (EXHAUST)						
	5	1	191-6766	2	GUIDE-VALVE (INLET) (STANDARD)						
AB			206-1544		GUIDE-VALVE (INLET 0.254-MM OS OD)						
AB			206-1545		GUIDE-VALVE (INLET 0.508-MM OS OD)						
	6	1	197-6999	4	ROTOCOIL AS						
CY	7	1	206-1555	1	CYLINDER HEAD GP						74
	8	1	209-0962	4	WASHER (17.8X45X7.29-MM THK)						
	9	1	210-2542	2	VALVE-INLET						
C	10	1	255-0897	2	GUIDE-VALVE (EXHAUST) (STANDARD)						
AB			255-1261		GUIDE-VALVE (EXHAUST 0.254-MM OS OD)						
AB			255-1262		GUIDE-VALVE (EXHAUST 0.508-MM OS OD)						
C	11	1	7N-1902	2	DOWEL						

A - NOT PART OF THIS GROUP

B - USE AS REQUIRED

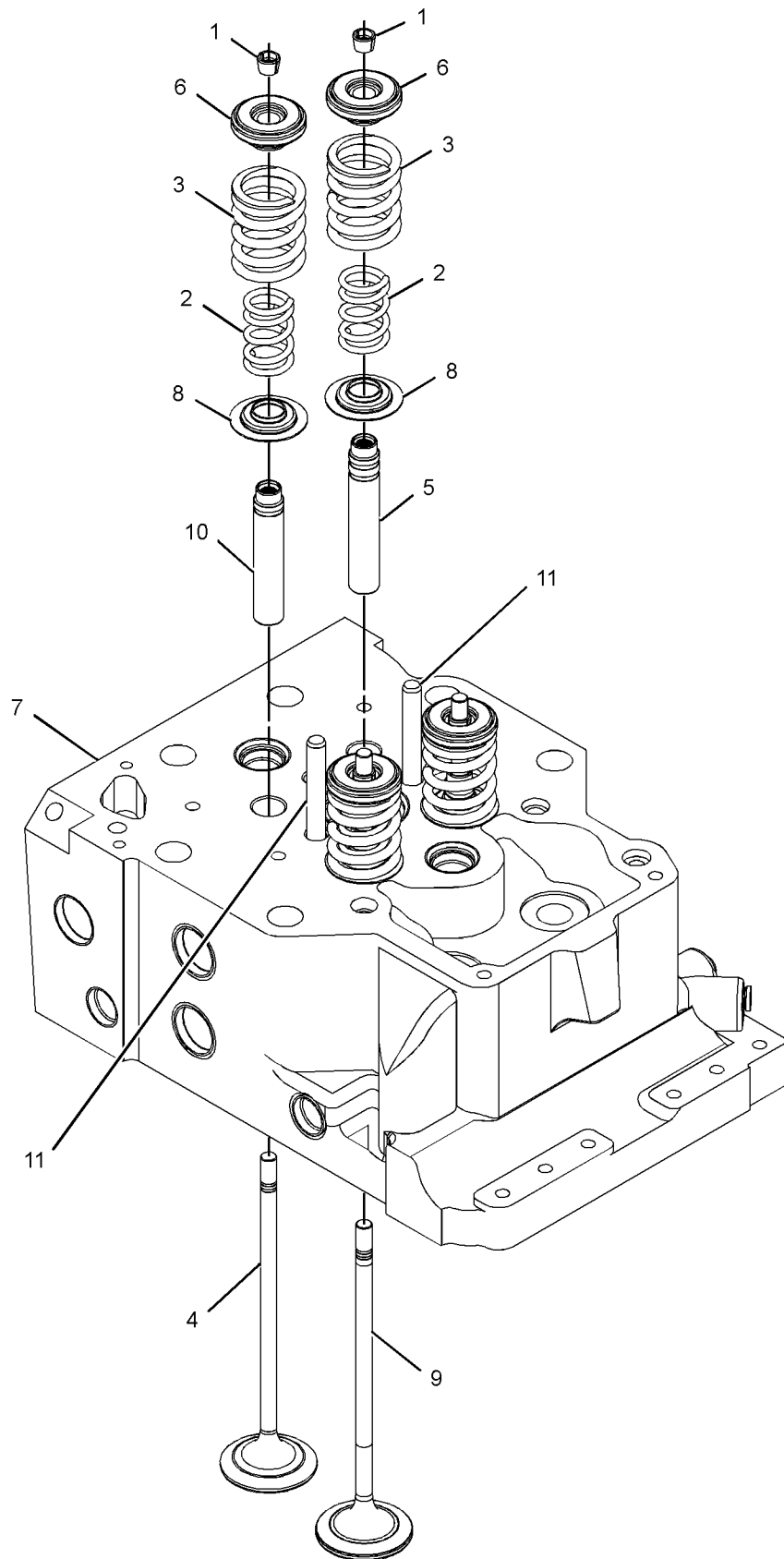
C - CHANGE FROM PREVIOUS TYPE

Y - SEPARATE ILLUSTRATION

BASIC ENGINE

206 - 1556 CYLINDER HEAD GP (contd.)

i02829185



GRAPHIC #1

<END>

g01257929

BASIC ENGINE

206 - 1558 CYLINDER HEAD GP

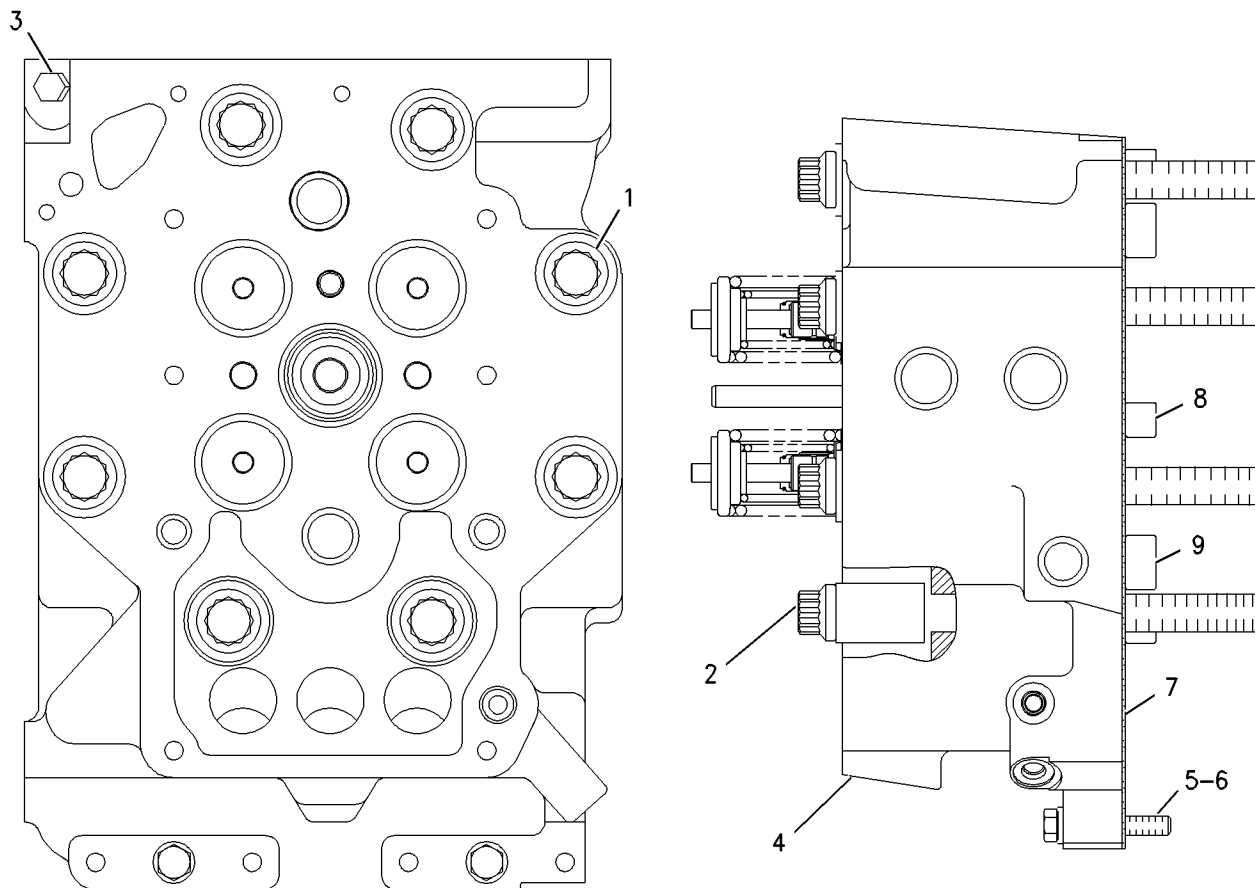
S/N: ZBA1-UP

SMCS-1100

i02491681

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	131-0420	6	FASTENER GP-CYLINDER HEAD (EACH INCLUDES)	
		1	7N-1961	1	BOLT-12 POINT HEAD (3/4-16X8.5-IN)	
		1	187-7738	1	WASHER-HARD (21X36.5X3.5-MM THK)	
	2	1	131-0421	2	FASTENER GP-CYLINDER HEAD (EACH INCLUDES)	
		1	7N-1961	1	BOLT-12 POINT HEAD (3/4-16X8.5-IN)	
		1	187-7738	1	WASHER-HARD (21X36.5X3.5-MM THK)	
		1	9Y-0635	1	SPACER (19.35X30.18X45-MM THK)	
	3	1	5B-7890	1	PLUG-PIPE	
YR	4	1	206-1556	1	CYLINDER HEAD GP	75
	5	1	5B-0213	2	BOLT (3/8-16X2.375-IN)	
	6	1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	7	1	274-8567	1	GASKET-CYLINDER HEAD	
	8	1	204-5427	4	SEAL (WATER)	
	9	1	204-5426	4	SEAL (WATER)	

R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01006456

BASIC ENGINE

206 - 1560 CYLINDER HEAD GP

S/N: ZBA1-UP

LOW SWIRL

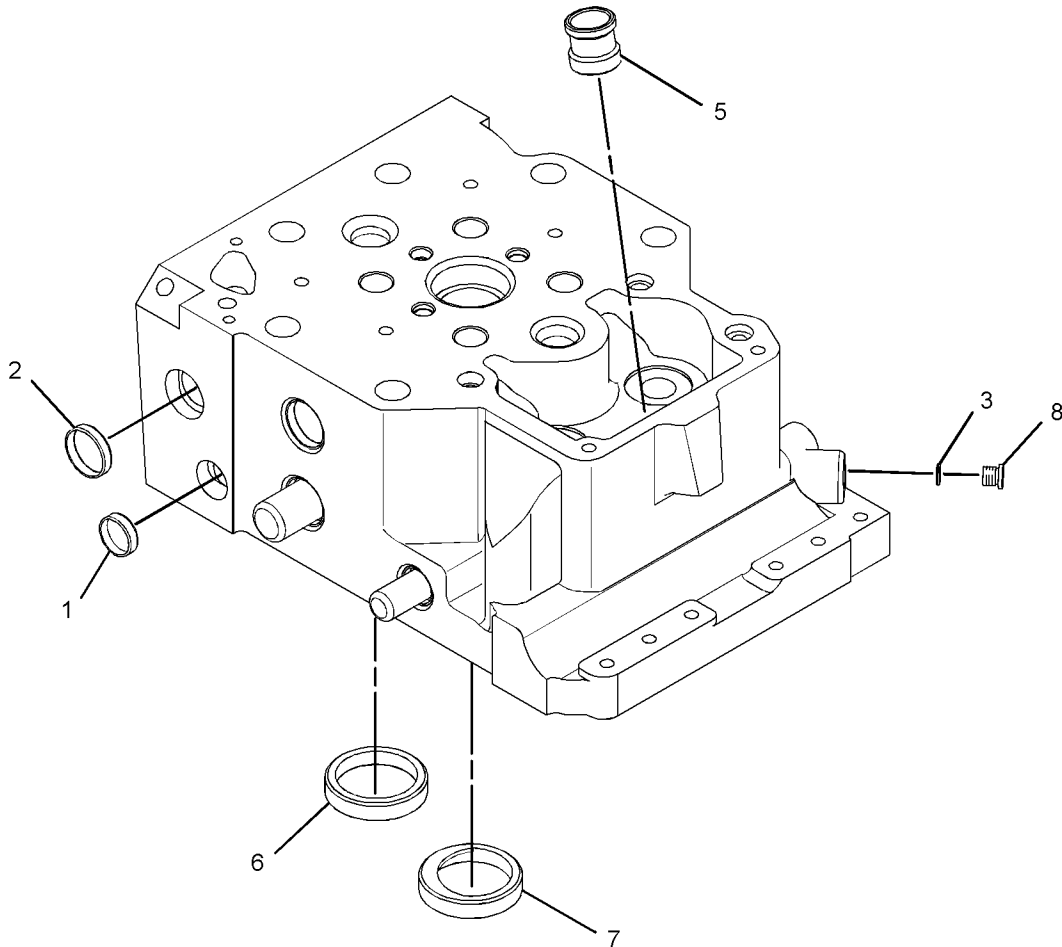
PART OF 206-1561, 247-4573 CYLINDER HEAD GP

SMCS-1100

i02871523

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3B-0623	5	PLUG-CUP						
	2	1	3B-0645	5	PLUG-CUP						
	3	1	3J-7354	2	SEAL-O-RING						
	5	1	4P-6925	1	SLEEVE-OIL						
	6	1	191-6760	2	INSERT-VALVE SEAT (EXHAUST) (STANDARD)						
AB			206-1546		INSERT-VALVE SEAT (EXHAUST 0.254-MM OS OD)						
AB			206-1547		INSERT-VALVE SEAT (EXHAUST 0.508-MM OS OD)						
	7	1	266-8718	2	INSERT-VALVE SEAT (INLET) (STANDARD)						
AB			266-8719		INSERT-VALVE SEAT (INLET 0.254-MM OS OD)						
AB			266-8720		INSERT-VALVE SEAT (INLET 0.508-MM OS OD)						
	8	1	9S-8002	2	PLUG-O-RING						

A-NOT PART OF THIS GROUP
B-USE AS REQUIRED



GRAPHIC #1

<END>

g01430088

BASIC ENGINE

206-1561 CYLINDER HEAD GP*R

S/N: ZBA1-UP

LOW SWIRL

PART OF 206-1562 CYLINDER HEAD GP

SMCS-1100

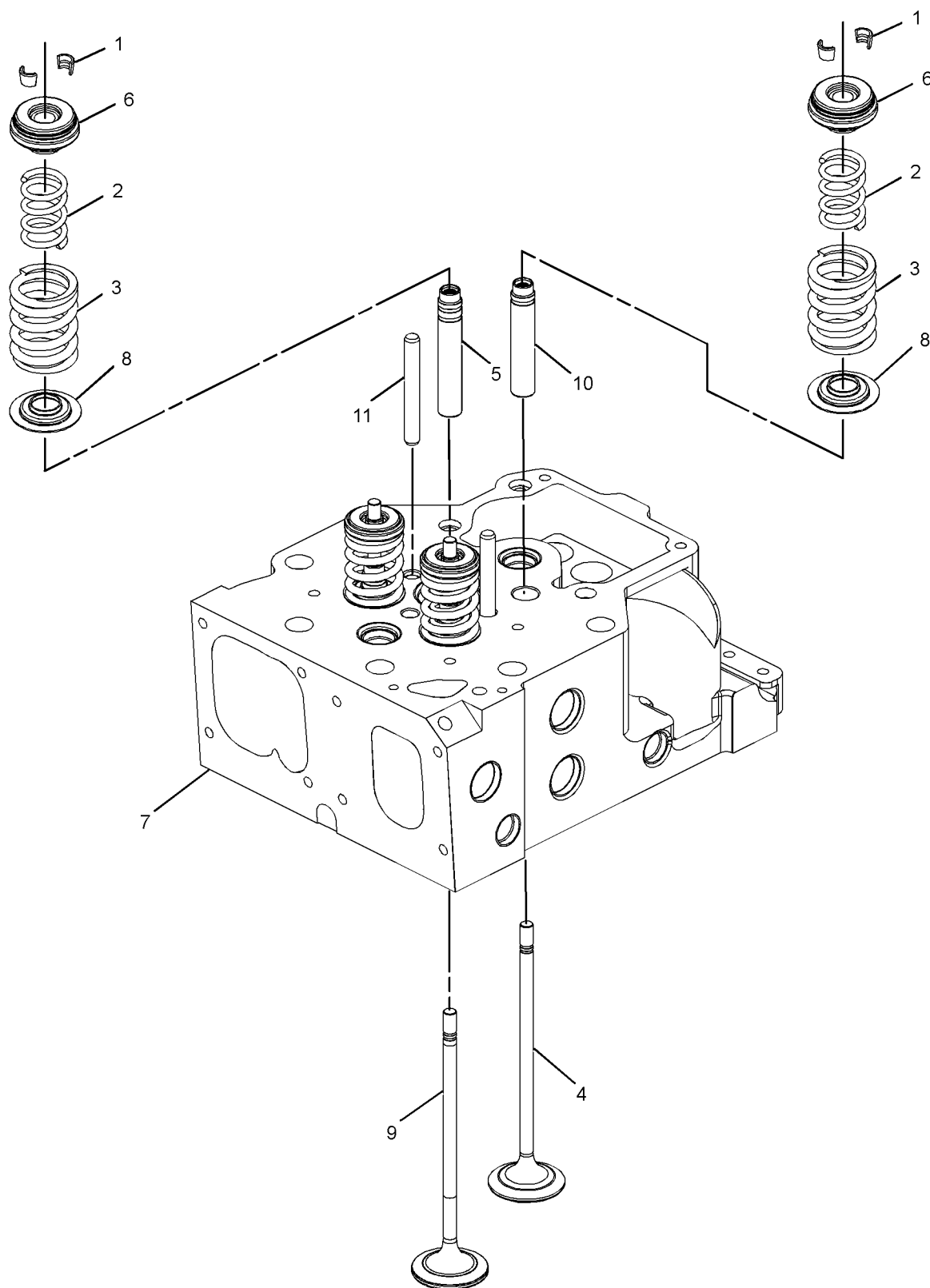
i02767455

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	2A-4429	8	LOCK-RETAINER	
	2	1	7N-1903	4	SPRING-VALVE INNER	
	3	1	7N-1904	4	SPRING-VALVE OUTER	
	4	1	104-7184	2	VALVE (EXHAUST)	
	5	1	191-6766	2	GUIDE-VALVE (INLET)	
AB		1	206-1544		GUIDE-VALVE (INLET 0.254-MM OS OD)	
AB		1	206-1545		GUIDE-VALVE (INLET 0.508-MM OS OD)	
	6	1	197-6999	4	ROTOCOIL AS	
Y	7	1	206-1560	1	CYLINDER HEAD GP	78
	8	1	209-0962	4	WASHER (17.8X45X7.29-MM THK)	
	9	1	210-2542	2	VALVE-INLET	
	10	1	255-0897	2	GUIDE-VALVE (EXHAUST)	
AB		1	255-1261		GUIDE-VALVE (EXHAUST 0.254-MM OS OD)	
AB		1	255-1262		GUIDE-VALVE (EXHAUST 0.508-MM OS OD)	
	11	1	7N-1902	2	DOWEL	
A- NOT PART OF THIS GROUP						
B- USE AS REQUIRED						
Y- SEPARATE ILLUSTRATION						

BASIC ENGINE

206-1561 CYLINDER HEAD GP (contd.)

i02767455



GRAPHIC #1

<END>

g01266022

BASIC ENGINE

206 - 1562 CYLINDER HEAD GP

S/N: ZBA1-UP

LOW SWIRL

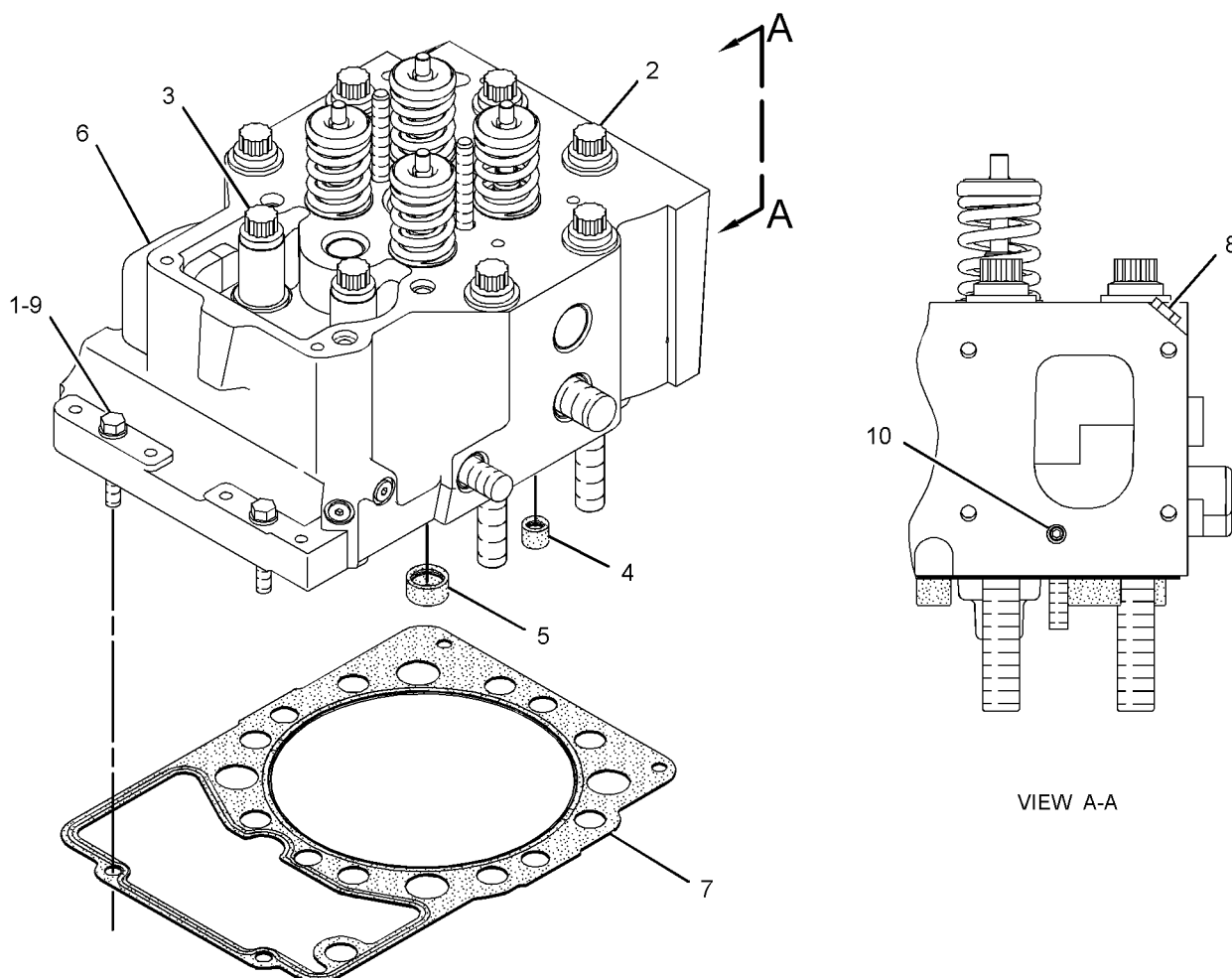
SMCS-1100

i02373748

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	5B-0213	2	BOLT (3/8-16X2.375-IN)	
	2	1	131-0420	6	FASTENER GP-CYLINDER HEAD	
					(EACH INCLUDES)	
		1	5P-8248	1	WASHER-HARD (20X36.5X3.5-MM THK)	
		1	7N-1961	1	BOLT-12 POINT HEAD (3/4-16X8.5-IN)	
	3	1	131-0421	2	FASTENER GP-CYLINDER HEAD	
					(EACH INCLUDES)	
		1	5P-8248	1	WASHER-HARD (20X36.5X3.5-MM THK)	
		1	7N-1961	1	BOLT-12 POINT HEAD (3/4-16X8.5-IN)	
		1	9Y-0635	1	SPACER (19.35X30.18X45-MM THK)	
	4	1	204-5426	4	SEAL (WATER)	
	5	1	204-5427	4	SEAL (WATER)	
YR	6	1	206-1561	1	CYLINDER HEAD GP	79
	7	1	274-8567	1	GASKET-CYLINDER HEAD	
	8	1	5B-7890	1	PLUG-PIPE	
	9	1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	10	1	8T-6759	1	PLUG-PIPE	

R-REMFG PART MAY BE AVAILABLE

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01275587

BASIC ENGINE

247-4572 CYLINDER HEAD GP*R

S/N: ZBA1-UP

PART OF 248-5030 CYLINDER HEAD GP

SMCS-1100

i02868111

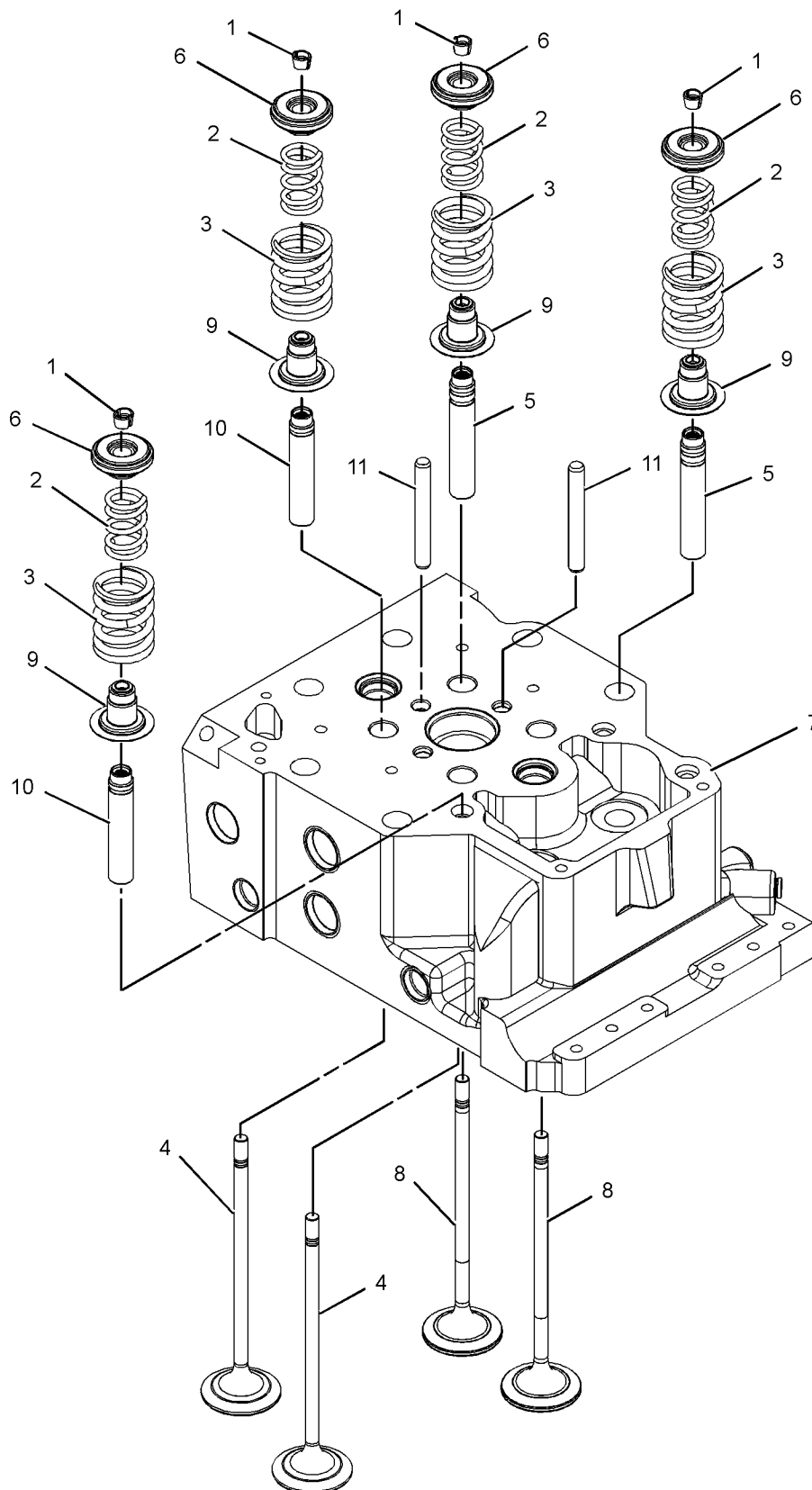
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	2A-4429	8	LOCK-RETAINER	
	2	1	7N-1903	4	SPRING-VALVE INNER	
	3	1	7N-1904	4	SPRING-VALVE OUTER	
	4	1	104-7184	2	VALVE (EXHAUST)	
	5	1	191-6766	2	GUIDE-VALVE (INLET) (STANDARD)	
AB			206-1544		GUIDE-VALVE (INLET 0.254-MM OS OD)	
AB			206-1545		GUIDE-VALVE (INLET 0.508-MM OS OD)	
	6	1	197-6999	4	ROTOCOIL AS	
CY	7	1	206-1555	1	CYLINDER HEAD GP	74
C	8	1	210-2542	2	VALVE-INLET	
	9	1	228-9673	4	SEAL	
	10	1	255-0897	2	GUIDE-VALVE (EXHAUST) (STANDARD)	
AB			255-1261		GUIDE-VALVE (EXHAUST 0.254-MM OS OD)	
AB			255-1262		GUIDE-VALVE (EXHAUST 0.508-MM OS OD)	
	11	1	7N-1902	2	DOWEL	

A - NOT PART OF THIS GROUP
 B - USE AS REQUIRED
 C - CHANGE FROM PREVIOUS TYPE
 Y - SEPARATE ILLUSTRATION

BASIC ENGINE

247-4572 CYLINDER HEAD GP (contd.)

i02868111



GRAPHIC #1

<END>

g01257078

BASIC ENGINE

247-4573 CYLINDER HEAD GP*R

S/N: ZBA1-UP

PART OF 248-5031 CYLINDER HEAD GP

SMCS-1100

i02864600

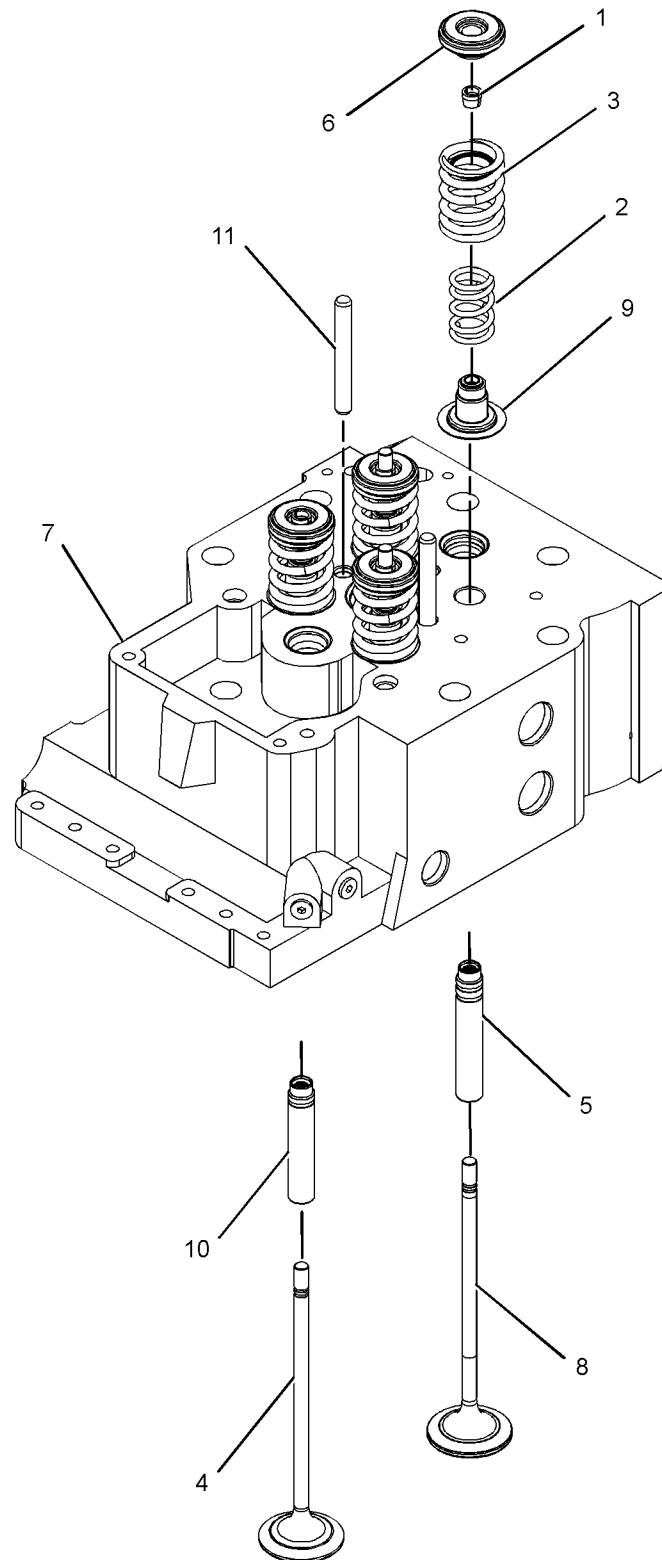
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	2A-4429	8	LOCK-RETAINER	
	2	1	7N-1903	4	SPRING-VALVE INNER	
	3	1	7N-1904	4	SPRING-VALVE OUTER	
	4	1	104-7184	2	VALVE (EXHAUST)	
	5	1	191-6766	2	GUIDE-VALVE (INLET) (STANDARD)	
AB		1	206-1544		GUIDE-VALVE (INLET 0.254-MM OS OD)	
AB		1	206-1545		GUIDE-VALVE (INLET 0.508-MM OS OD)	
	6	1	197-6999	4	ROTOCOIL AS	
CY	7	1	206-1560	1	CYLINDER HEAD GP	78
	8	1	210-2542	2	VALVE-INLET	
	9	1	228-9673	4	SEAL	
	10	1	255-0897	2	GUIDE-VALVE (EXHAUST) (STANDARD)	
AB		1	255-1261		GUIDE-VALVE (EXHAUST 0.254-MM OS OD)	
AB		1	255-1262		GUIDE-VALVE (EXHAUST 0.508-MM OS OD)	
	11	1	7N-1902	2	DOWEL	

A - NOT PART OF THIS GROUP
 B - USE AS REQUIRED
 C - CHANGE FROM PREVIOUS TYPE
 Y - SEPARATE ILLUSTRATION

BASIC ENGINE

247-4573 CYLINDER HEAD GP (contd.)

i02864600



GRAPHIC #1

<END>

g01257085

BASIC ENGINE

248 - 5030 CYLINDER HEAD GP

S/N: ZBA1-UP

SMCS-1100

i02541479

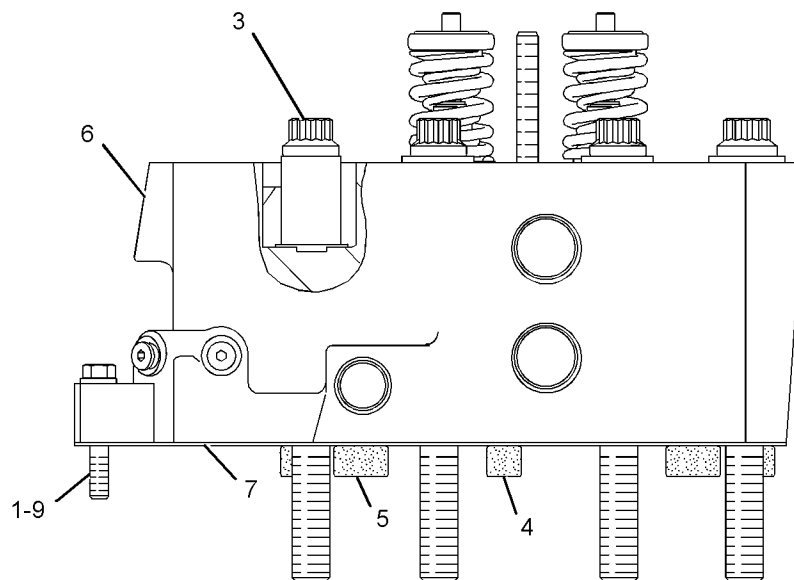
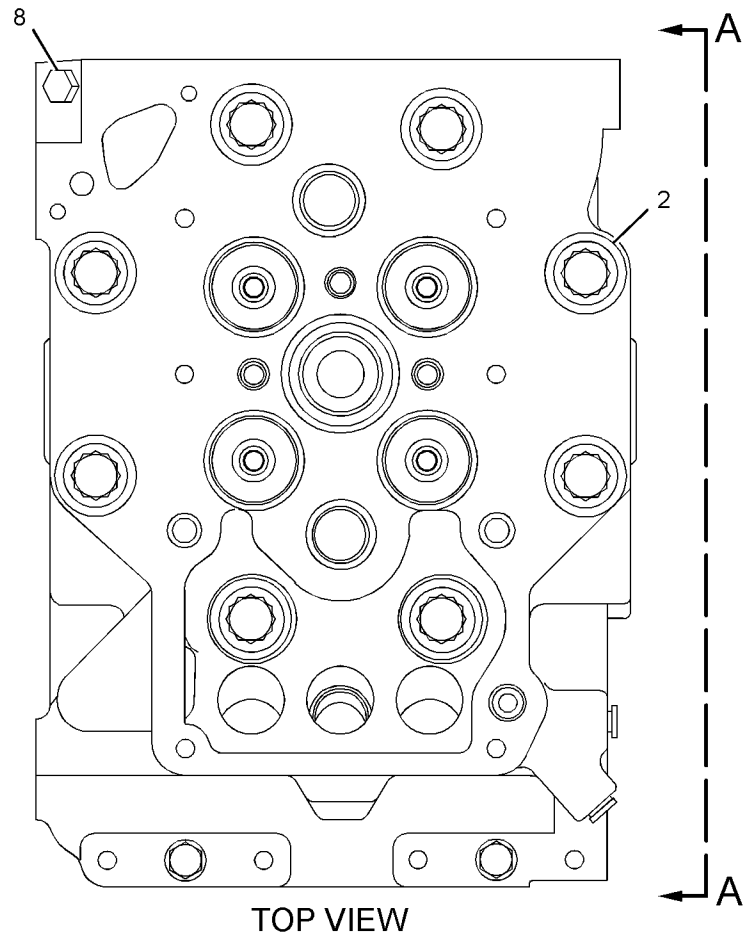
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5B-0213	2	BOLT (3/8-16X2.375-IN)						
	2	1	131-0420	6	FASTENER GP-CYLINDER HEAD						
					(EACH INCLUDES)						
		1	7N-1961	1	BOLT-12 POINT HEAD (3/4-16X8.5-IN)						
		1	187-7738	1	WASHER-HARD (21X36.5X3.5-MM THK)						
	3	1	131-0421	2	FASTENER GP-CYLINDER HEAD						
					(EACH INCLUDES)						
		1	7N-1961	1	BOLT-12 POINT HEAD (3/4-16X8.5-IN)						
		1	9Y-0635	1	SPACER (19.35X30.18X45-MM THK)						
		1	187-7738	1	WASHER-HARD (21X36.5X3.5-MM THK)						
	4	1	204-5426	4	SEAL (WATER)						
	5	1	204-5427	4	SEAL (WATER)						
YR	6	1	247-4572	1	CYLINDER HEAD GP						82
	7	1	274-8567	1	GASKET-CYLINDER HEAD						
	8	1	5B-7890	1	PLUG-PIPE						
	9	1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5-MM THK)						

R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION

BASIC ENGINE

248-5030 CYLINDER HEAD GP (contd.)

i02541479



GRAPHIC #1

<END>

g01274763

BASIC ENGINE

248-5031 CYLINDER HEAD GP

S/N: ZBA1-UP

SMCS-1100

i02543907

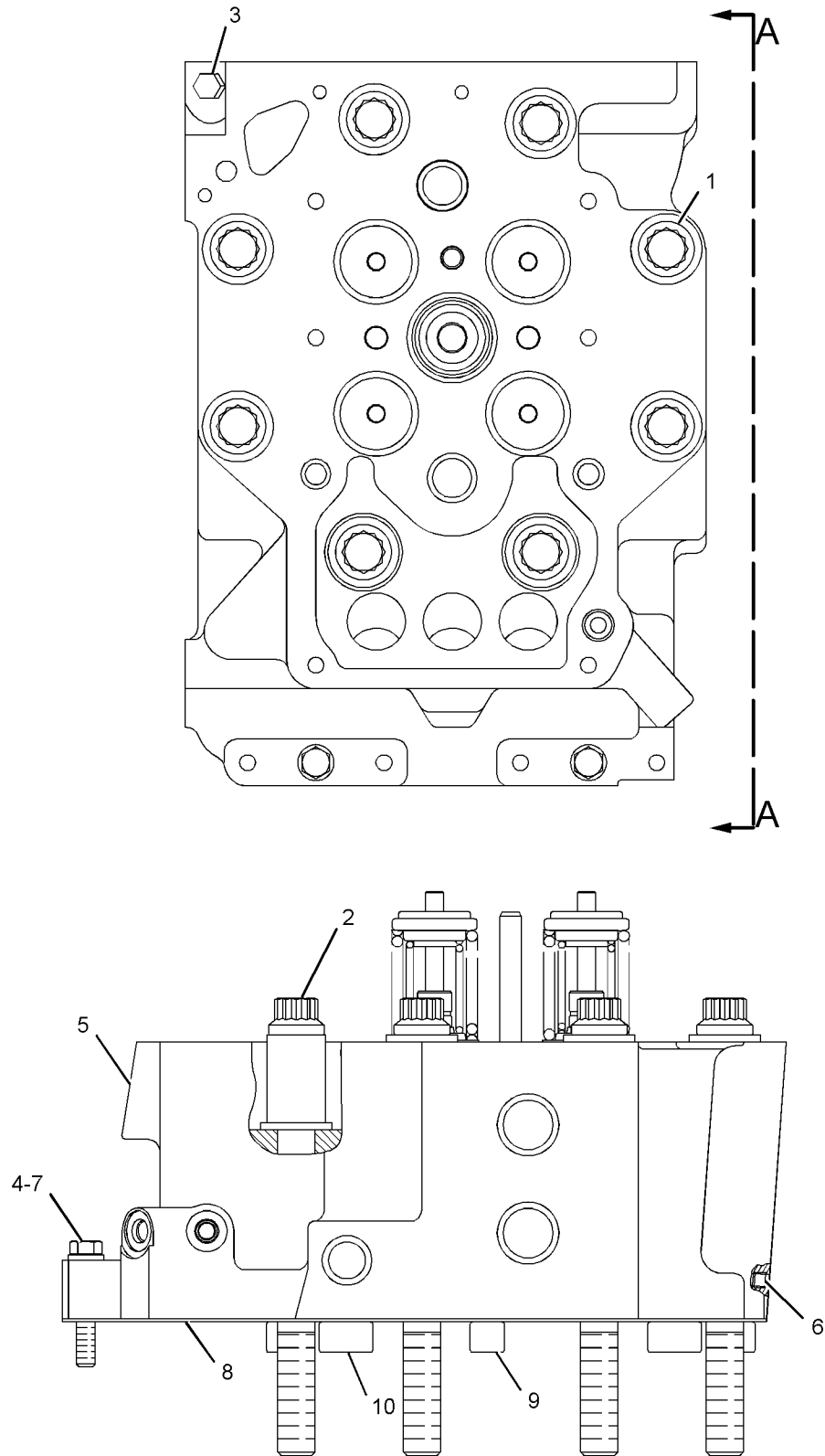
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5B-0213	2	BOLT (3/8-16X2.375-IN)						
	2	1	8T-6759	1	PLUG-PIPE						
	3	1	131-0420	6	FASTENER GP-CYLINDER HEAD						
					(EACH INCLUDES)						
		1	7N-1961	1	BOLT-12 POINT HEAD (3/4-16X8.5-IN)						
		1	187-7738	1	WASHER-HARD (21X36.5X3.5-MM THK)						
	4	1	131-0421	2	FASTENER GP-CYLINDER HEAD						
					(EACH INCLUDES)						
		1	7N-1961	1	BOLT-12 POINT HEAD (3/4-16X8.5-IN)						
		1	9Y-0635	1	SPACER (19.35X30.18X45-MM THK)						
		1	187-7738	1	WASHER-HARD (21X36.5X3.5-MM THK)						
	5	1	204-5426	4	SEAL (WATER)						
	6	1	204-5427	4	SEAL (WATER)						
YR	7	1	247-4573	1	CYLINDER HEAD GP						84
	8	1	274-8567	1	GASKET-CYLINDER HEAD						
	9	1	5B-7890	1	PLUG-PIPE						
	10	1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5-MM THK)						

R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION

BASIC ENGINE

248-5031 CYLINDER HEAD GP (contd.)

i02543907



GRAPHIC #1

<END>

VIEW A-A

g01073742

BASIC ENGINE

4W-0278 DAMPER GP

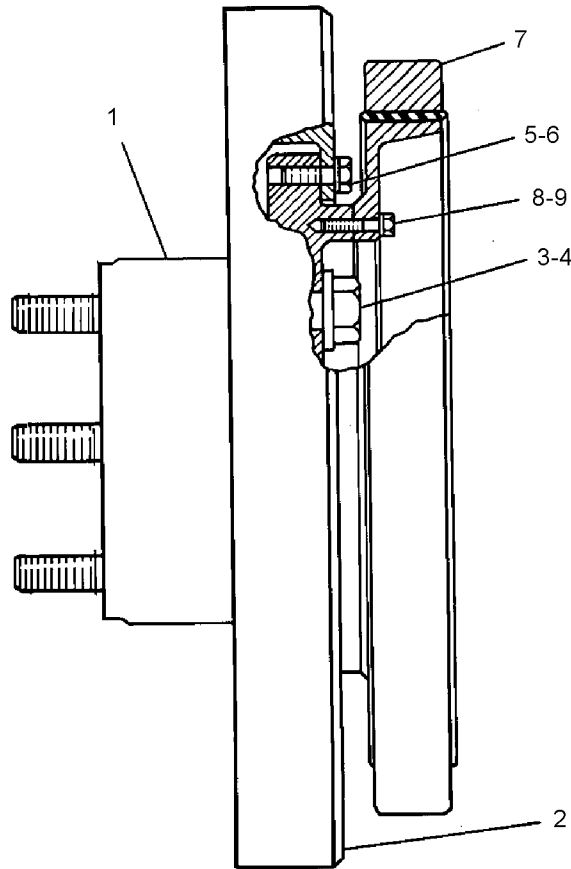
S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1205

i02297676

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-0854	1	ADAPTER - DAMPER						
R	2	1	193-3288	1	DAMPER AS						
B	3	1	8S-4757	6	BOLT (1-14X8-IN)						
B	4	1	5P-8250	6	WASHER (28X49X5-MM THK)						
C	5	1	7B-3235	10	BOLT (1/2-13X1.375-IN)						
	6	1	2M-0849	10	WASHER-HARD (13.5X25.5X5-MM THK)						
C	7	1	7W-3193	1	DAMPER AS						
		1	7N-2043	2	DOWEL						
C	8	1	3B-1915	18	BOLT (3/8-16X1-3/8-IN)						
C	9	1	5M-2894	18	WASHER-HARD (10.2X18.5X2.5-MM THK)						

B-USE AS REQUIRED
C-CHANGE FROM PREVIOUS TYPE
R-REMFG PART MAY BE AVAILABLE



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g01150652

BASIC ENGINE

8N-0339 DAMPER GP

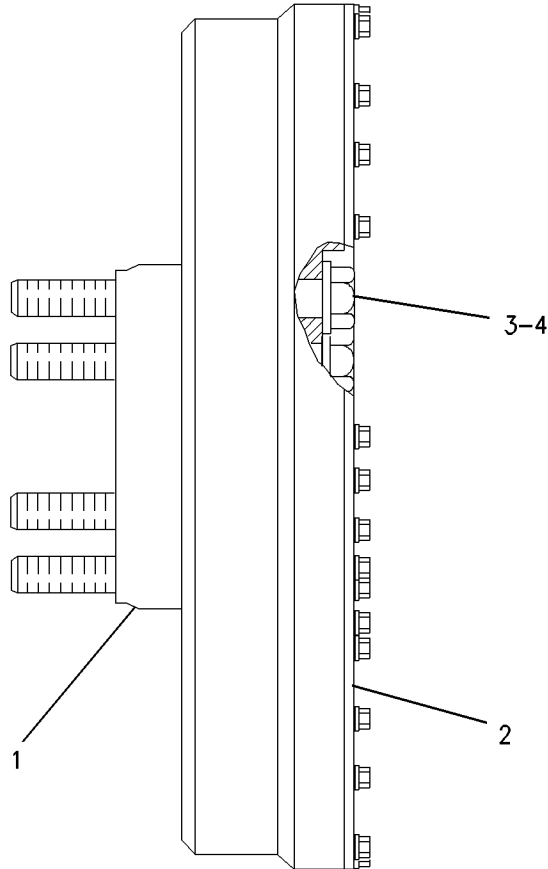
S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1205

i02327580

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1N-3482	1	ADAPTER						
CYR	2	1	146-3740	1	DAMPER GP						93
	3	1	8S-4757	6	BOLT (1-14X8-IN)						
	4	1	5P-8250	6	WASHER (28X49X5-MM THK)						

C - CHANGE FROM PREVIOUS TYPE
R - REMFG PART MAY BE AVAILABLE
Y - SEPARATE ILLUSTRATION



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g00995293

BASIC ENGINE

8N-7182 DAMPER GP

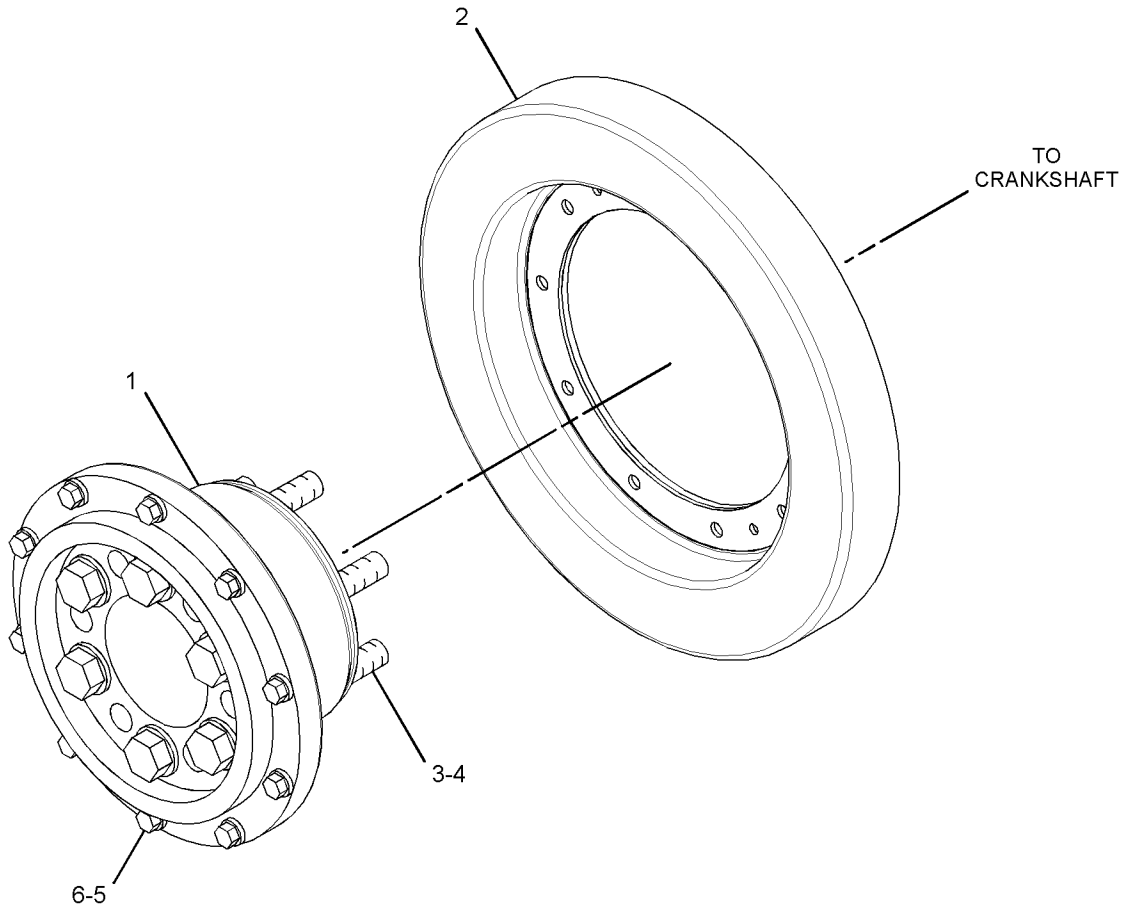
S/N: ZBA1-UP

SMCS-1205

i02819023

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	1	1	7E-0854	1	ADAPTER-DAMPER						
R	2	1	193-3288	1	DAMPER AS						
	3	1	8S-4757	6	BOLT (1-14X8-IN)						
	4	1	5P-8250	6	WASHER (28X49X5-MM THK)						
	5	1	7B-3235	10	BOLT (1/2-13X1.375-IN)						
	6	1	2M-0849	10	WASHER-HARD (13.5X25.5X5-MM THK)						

C- CHANGE FROM PREVIOUS TYPE
R- REMFG PART MAY BE AVAILABLE



GRAPHIC #1

<END>

g01409568

BASIC ENGINE

146-3740 DAMPER GP*R

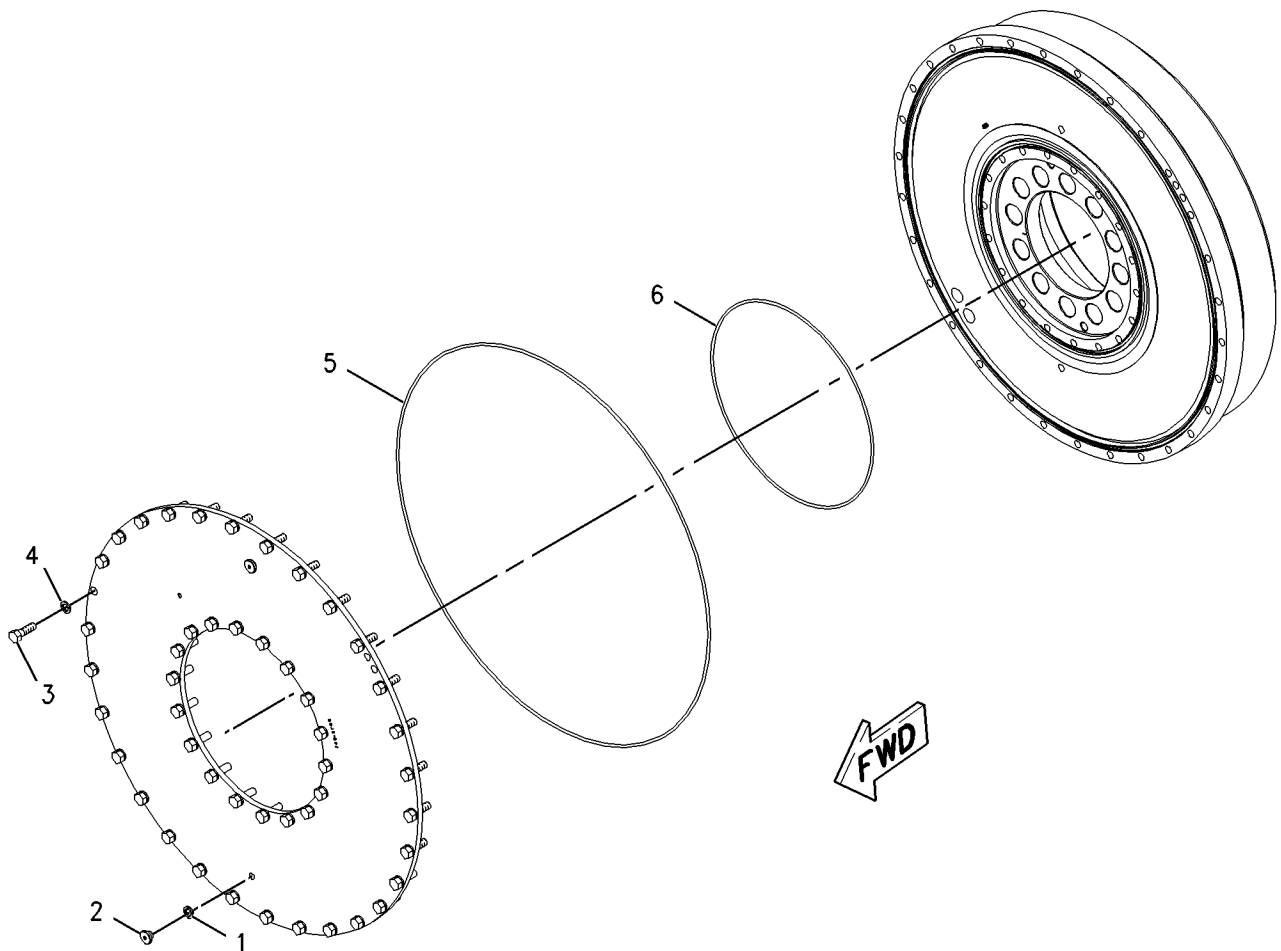
S/N: ZBA1-UP

PART OF 8N-0339 DAMPER GP
AN ATTACHMENT

SMCS-1205

i02327548

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	151-9263	2	WASHER (10.35X16X2-MM THK)						
	2	1	227-3801	2	PLUG						
	3	1	1A-2029	48	BOLT (3/8-16X1.125-IN)						
	4	1	3V-2431	48	WASHER (10.2X16X2-MM THK)						
	5	1	4D-0449	1	SEAL-O-RING						
	6	1	6V-7991	1	SEAL-O-RING						



GRAPHIC #1

<END>

g00995286

BASIC ENGINE

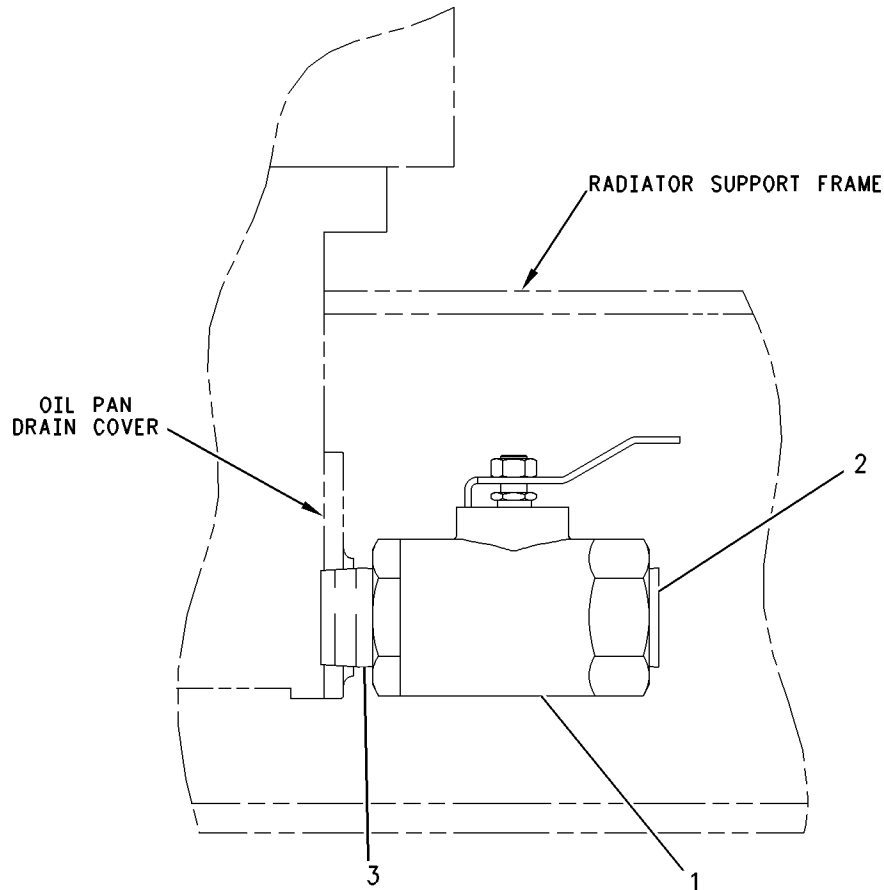
110-6206 DRAIN GP-ENGINE OIL

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1302

i02776826

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	110-6207	1	VALVE (ENGINE OIL DRAIN)	
	2	1	9X-6138	1	PLUG-PIPE (ENGINE OIL DRAIN)	
	3	1	3B-7296	1	FITTING (NIPPLE)	



GRAPHIC #1

<END>

g00759274

BASIC ENGINE

202-8640 DRAIN GP-ENGINE OIL-REAR

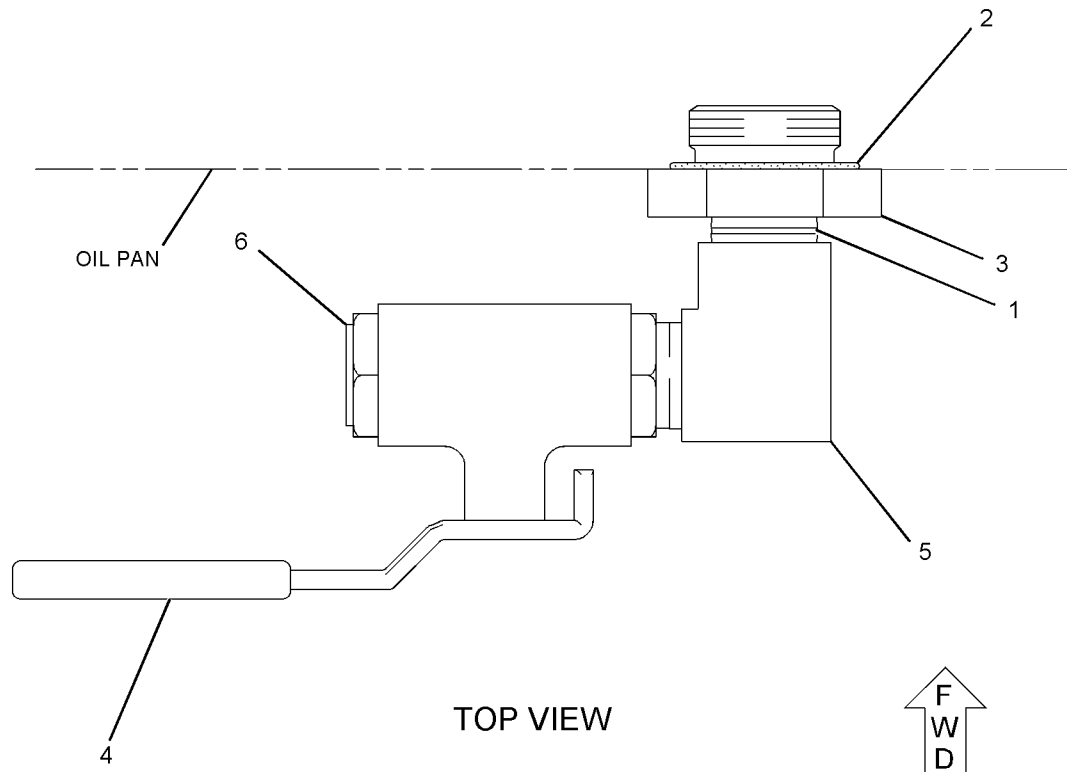
S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1302

i02297680

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3B-7745	1	FITTING						
	2	1	6F-4868	1	GASKET						
	3	1	7N-6511	1	ADAPTER						
	4	1	8C-1358	1	VALVE-BALL						
C	5	1	003-9163	1	ELBOW						
	6	1	7X-7731	1	PLUG-PIPE						

C- CHANGE FROM PREVIOUS TYPE



GRAPHIC #1

<END>

g01131842

BASIC ENGINE

1W-9553 DRIVE GP-ACCESSORY-LOWER, LH

S/N: ZBA1-UP

STANDARD ROTATION

SMCS-1207

i02226406

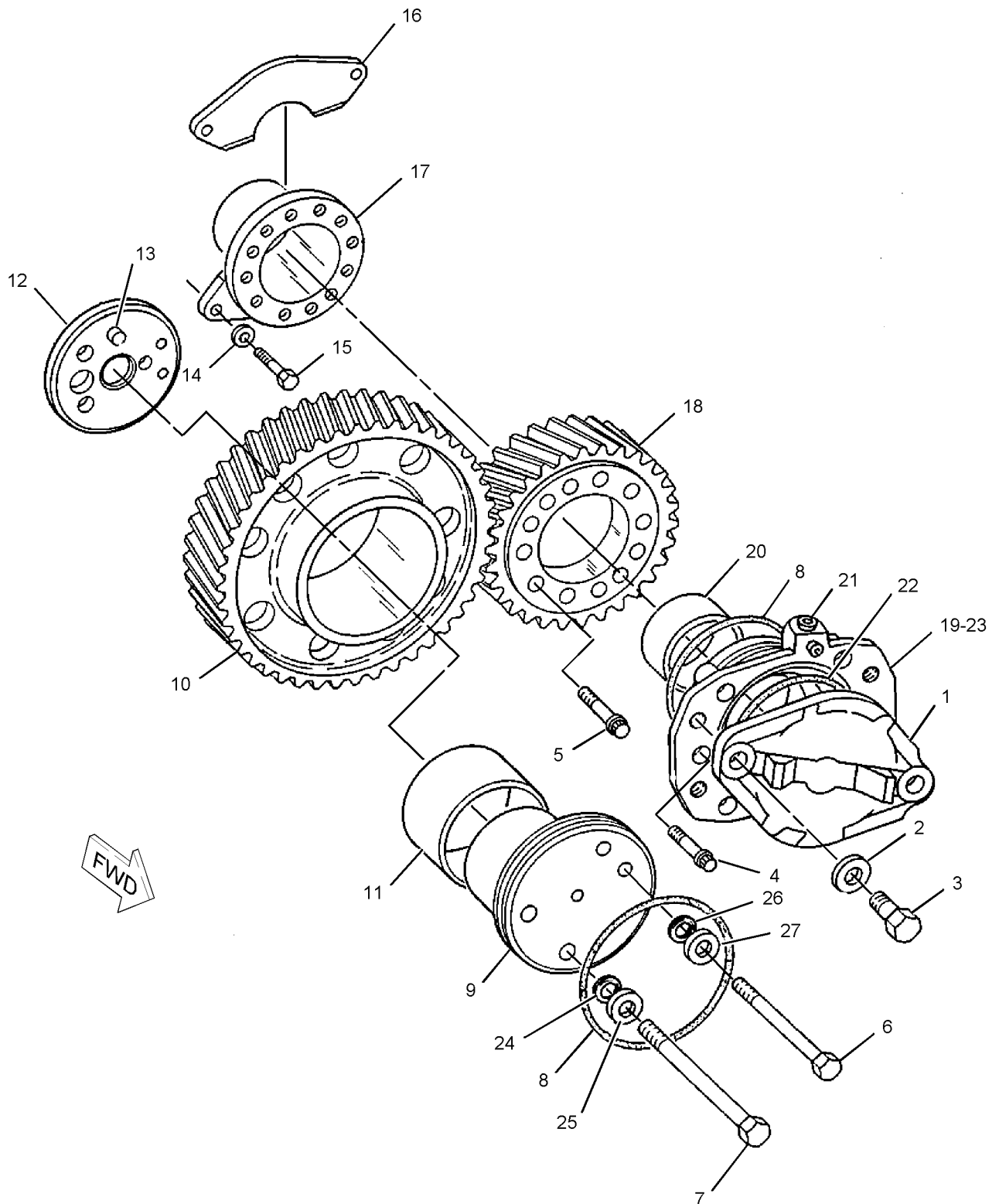
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7N-8374	1	COVER-PUMP						
	2	1	5P-8247	2	WASHER-HARD (17X32X3.5-MM THK)						
	3	1	0S-1592	2	BOLT (5/8-11X1.25-IN)						
	4	1	1T-0765	6	BOLT (3/8-16X1-IN)						
	5	1	6K-3771	12	BOLT-12 POINT HEAD (7/16-14X1.5-IN)						
C	6	1	0T-0055	2	BOLT (3/8-16X4.25-IN)						
C	7	1	9X-8879	2	BOLT (1/2-13X5.5-IN)						
C	8	1	235-3548	2	SEAL-O-RING						
C	9	1	7C-3259	1	SHAFT						
	10	1	116-3242	1	GEAR AS-IDLER (66-TEETH)						
	11	1	116-1365	1	BEARING						
C	12	1	7C-3258	1	WASHER AS-THRUST						
	13	1	7N-2047	1	DOWEL						
	14	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)						
	15	1	2B-2695	4	BOLT (5/16-18X0.875-IN)						
	16	1	7N-7539	2	WASHER-THRUST						
	17	1	7N-5874	1	SHAFT-AUXILIARY DRIVE						
	18	1	2W-7320	1	GEAR-ACCESSORY DRIVE (46-TEETH)						
	19	1	8N-8210	1	ADAPTER AS						
	20	1	127-5400	1	BEARING-SLEEVE						
	21	1	8T-6759	2	PLUG-PIPE						
C	22	1	9X-7371	1	SEAL-O-RING						
C	23	1	5P-0840	1	SEAL-O-RING						
C	24	1	5R-7137	2	WASHER-SEALING						
C	25	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
C	26	1	5R-7136	2	WASHER-SEALING						
C	27	1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5-MM THK)						

C-CHANGE FROM PREVIOUS TYPE

BASIC ENGINE

1W-9553 DRIVE GP-ACCESSORY (contd.)

i02226406



GRAPHIC #1

<END>

g01123209

BASIC ENGINE

7E-7647 DRIVE GP-ACCESSORY-LOWER, LH

S/N: ZBA1-UP

STANDARD ROTATION

SMCS-1207

i02292418

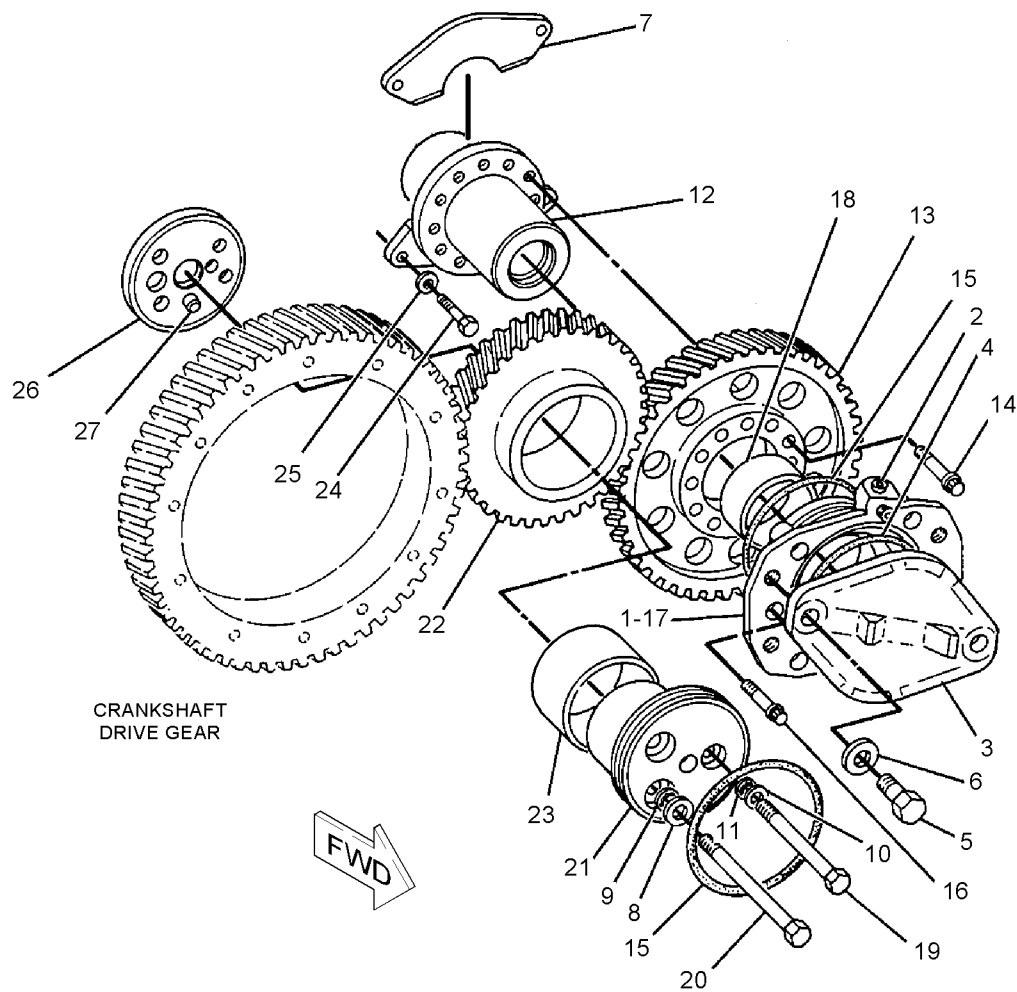
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-0840	1	SEAL-O-RING						
C	2	1	8T-6759	2	PLUG-PIPE						
	3	1	7N-8374	1	COVER-PUMP						
	4	1	9X-7371	1	SEAL-O-RING						
	5	1	0S-1592	2	BOLT (5/8-11X1.25-IN)						
	6	1	5P-8247	2	WASHER-HARD (17X32X3.5-MM THK)						
	7	1	7N-7539	2	WASHER-THRUST						
	8	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
	9	1	5R-7137	2	WASHER-SEALING						
	10	1	5M-2894	1	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	11	1	5R-7136	1	WASHER-SEALING						
	12	1	7N-5874	1	SHAFT-AUXILIARY DRIVE						
	13	1	7E-0275	1	GEAR-WATER PUMP DRIVE (69-TEETH)						
	14	1	6K-3771	12	BOLT-12 POINT HEAD (7/16-14X1.5-IN)						
	15	1	235-3548	2	SEAL-O-RING						
	16	1	1T-0765	6	BOLT (3/8-16X1-IN)						
	17	1	8N-8210	1	ADAPTER AS						
	18	1	127-5400	1	BEARING-SLEEVE						
	19	1	0T-0055	1	BOLT (3/8-16X4.25-IN)						
	20	1	9X-8879	2	BOLT (1/2-13X5.5-IN)						
	21	1	7C-3260	1	SHAFT						
C	22	1	144-8263	1	GEAR AS-IDLER (53-TEETH)						
	23	1	140-9597	1	BEARING-SLEEVE						
	24	1	2B-2695	4	BOLT (5/16-18X0.875-IN)						
	25	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)						
	26	1	7C-3258	1	WASHER AS-THRUST						
	27	1	7N-2047	1	DOWEL						

C-CHANGE FROM PREVIOUS TYPE

BASIC ENGINE

7E-7647 DRIVE GP-ACCESSORY (contd.)

i02292418



GRAPHIC #1

g01148334

BASIC ENGINE

7N-4871 DRIVE GP-ACCESSORY-UPPER, RH

S/N: ZBA1-UP

STANDARD ROTATION

PART OF 216-7097 DRIVE GP-ACCESSORY

CANNOT BE USED WITH RIGHT HAND GOVERNOR

ALSO AN ATTACHMENT

SMCS-1207

i01972859

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
B	1	1	8T-6757	1	PLUG-PIPE						
	2	1	6V-3348	1	SEAL-O-RING						
	3	1	7N-5875	1	GEAR-AUXILIARY DRIVE (63-TEETH)						
	4	1	7N-5248	1	GEAR-AUXILIARY DRIVE (63-TEETH)						
	5	1	5P-0840	1	SEAL-O-RING						
	6	1	7N-5874	1	SHAFT-AUXILIARY DRIVE						
	7	1	5P-2546	12	BOLT-12 POINT HEAD (7/16-14X1.25-IN)						
	8	1	235-3548	1	SEAL-O-RING						
	9	1	7J-8114	1	GASKET						
C	10	1	8P-1438	1	COVER						
	11	1	0L-1351	4	BOLT (3/8-16X0.875-IN)						
	12	1	8T-6759	1	PLUG-PIPE						
C	13	1	0S-1595	2	BOLT (1/2-13X1.25-IN)						
	14	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
	15	1	7C-4165	1	ADAPTER AS						
	15A	1	127-5400	1	BEARING-SLEEVE						
	16	1	2B-2695	4	BOLT (5/16-18X0.875-IN)						
	17	1	7N-7539	2	WASHER-THRUST						
	18	1	235-3546	1	SEAL-O-RING						
	19	1	0S-1594	6	BOLT (3/8-16X1-IN)						
	20	1	7N-5279	1	ADAPTER AS						
	20A	1	127-5400	1	BEARING-SLEEVE						
	21	1	6K-3772	12	BOLT-12 POINT HEAD (7/16-14X2.25-IN)						
	22	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)						
	23	1	8T-6757	1	PLUG-PIPE						

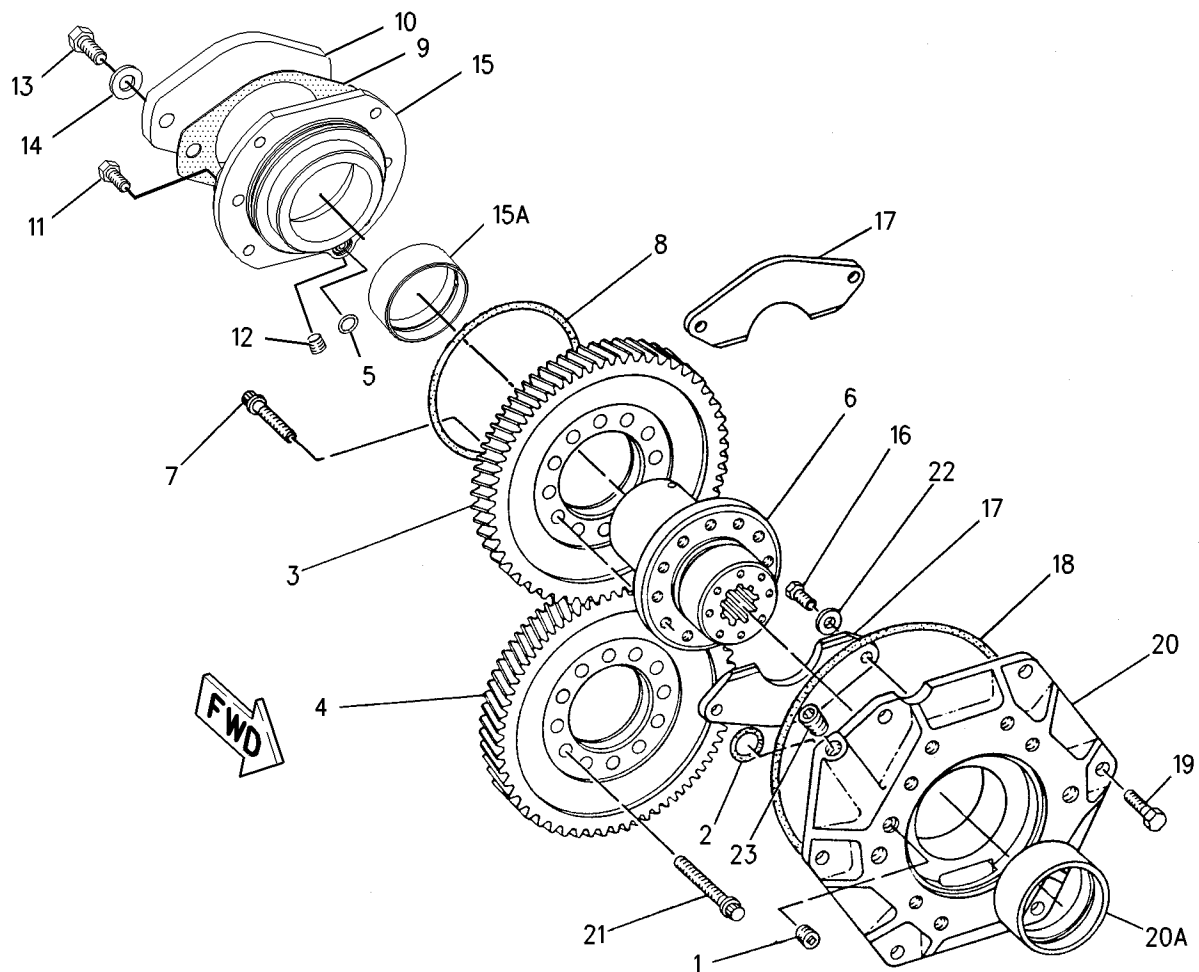
B-USE AS REQUIRED

C-CHANGE FROM PREVIOUS TYPE

BASIC ENGINE

7N-4871 DRIVE GP-ACCESSORY (contd.)

i01972859



GRAPHIC #1

<END>

g00740513

BASIC ENGINE

8N-5678 DRIVE GP-ACCESSORY-LOWER, LH

S/N: ZBA1-UP

LOW SPEED, STANDARD ROTATION
AN ATTACHMENT

SMCS-1207

i02521763

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	5P-0840	1	SEAL-O-RING	
	2	1	8T-6757	2	PLUG-PIPE	
	3	1	116-3242	1	GEAR AS-IDLER (66-TEETH)	
	3A	1	116-1365	1	BEARING	
C	4	1	7C-3259	1	SHAFT	
	5	1	235-3548	2	SEAL-O-RING	
C	6	1	7C-3258	1	WASHER AS-THRUST	
	6A	1	7N-2047	1	DOWEL	
	7	1	9X-8879	2	BOLT (1/2-13X5.5-IN)	
	8	1	0T-0055	2	BOLT (3/8-16X4.25-IN)	
	9	1	2W-7320	1	GEAR-ACCESSORY DRIVE (46-TEETH)	
B	10	1	6K-3771	12	BOLT-12 POINT HEAD (7/16-14X1.5-IN)	
	11	1	7N-5874	1	SHAFT-AUXILIARY DRIVE	
	12	1	7N-5279	1	ADAPTER AS	
	12A	1	7N-5278	1	ADAPTER	
	12B	1	127-5400	1	BEARING-SLEEVE	
	13	1	235-3546	1	SEAL-O-RING	
	14	1	6V-3348	1	SEAL-O-RING	
	15	1	0S-1594	6	BOLT (3/8-16X1-IN)	
	16	1	7N-7539	2	WASHER-THRUST	
	17	1	2B-2695	4	BOLT (5/16-18X0.875-IN)	
	18	1	8N-8210	1	ADAPTER AS	
	18A	1	127-5400	1	BEARING-SLEEVE	
	19	1	7N-8374	2	COVER-PUMP	
	20	1	9X-7371	2	SEAL-O-RING	
	21	1	0S-1592	4	BOLT (5/8-11X1.25-IN)	
	22	1	5P-8247	4	WASHER-HARD (17X32X3.5-MM THK)	
	23	1	1T-0765	6	BOLT (3/8-16X1-IN)	
	24	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)	
	25	1	8T-6759	2	PLUG-PIPE	
C	26	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)	
C	27	1	5R-7137	2	WASHER-SEALING	
C	28	1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5-MM THK)	
C	29	1	5R-7136	2	WASHER-SEALING	

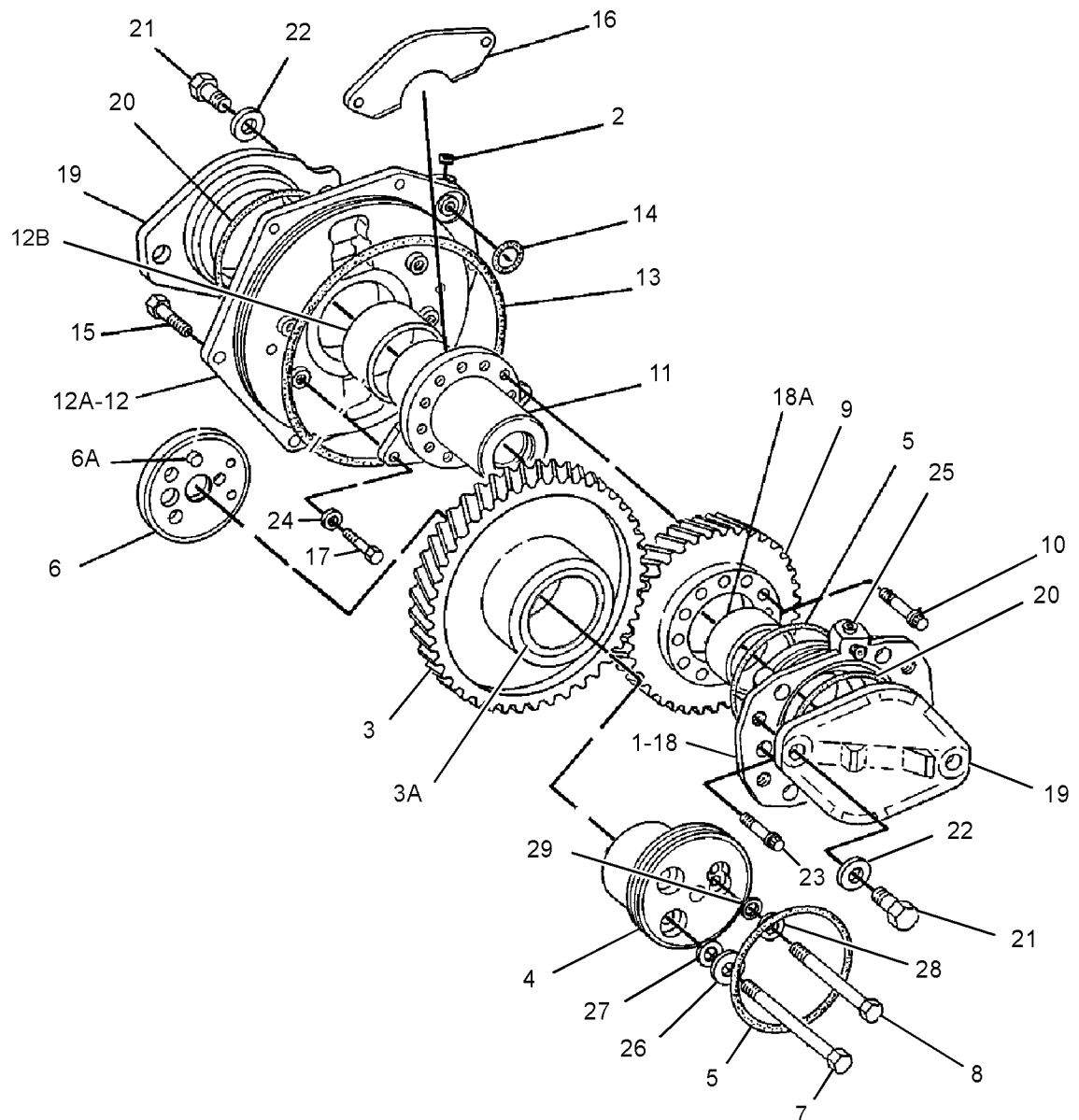
B-USE AS REQUIRED

C-CHANGE FROM PREVIOUS TYPE

BASIC ENGINE

8N-5678 DRIVE GP-ACCESSORY (contd.)

i02521763



GRAPHIC #1

<END>

g01262305

BASIC ENGINE

8N-9166 DRIVE GP-ACCESSORY-UPPER, LH

S/N: ZBA1-UP
STANDARD ROTATION
AN ATTACHMENT

SMCS-1207

i02177518

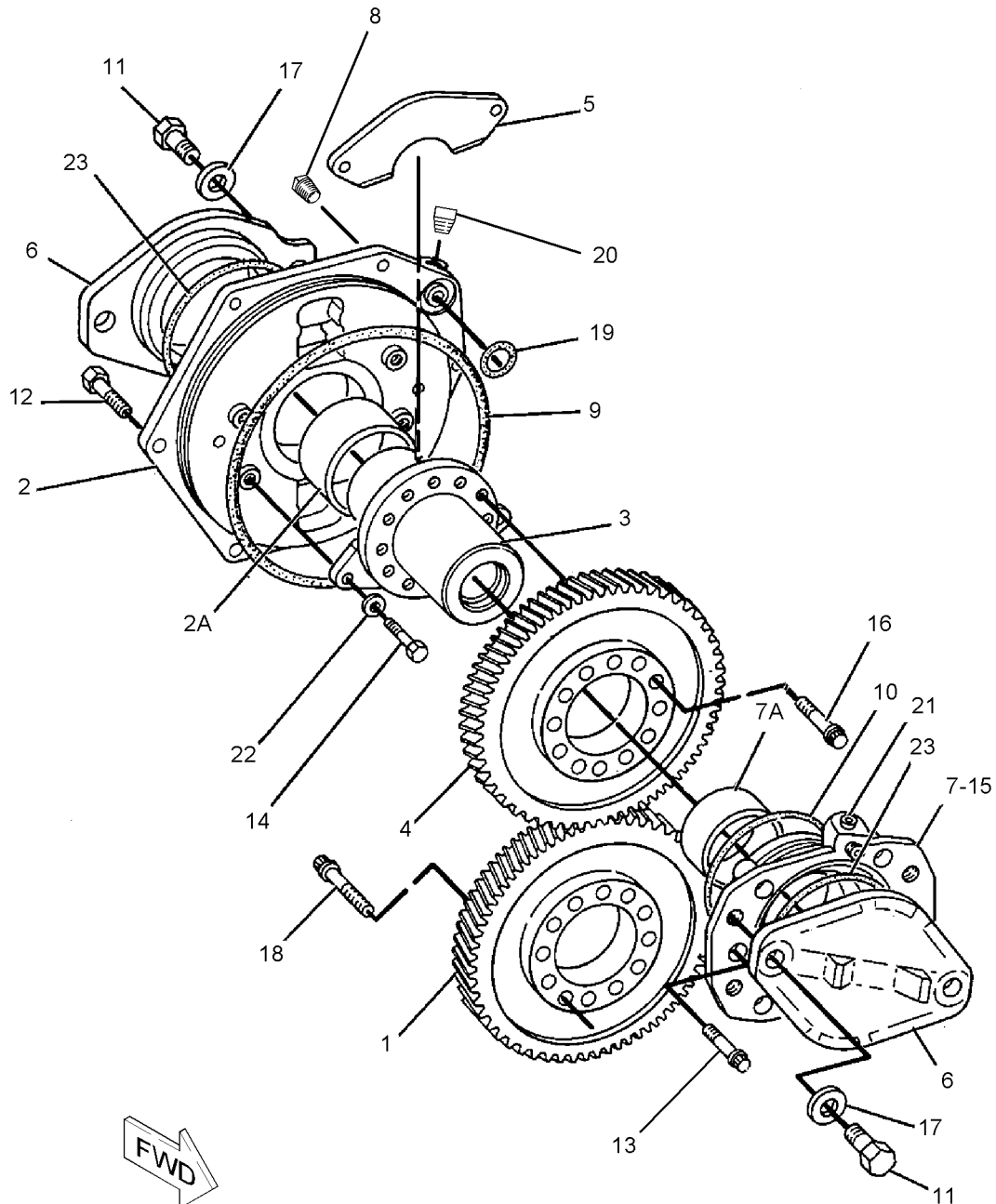
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7N-5248	1	GEAR-AUXILIARY DRIVE (63-TEETH)						
	2	1	7N-5279	1	ADAPTER AS						
	2A	1	127-5400	1	BEARING-SLEEVE						
	3	1	7N-5874	1	SHAFT-AUXILIARY DRIVE						
	4	1	7N-5875	1	GEAR-AUXILIARY DRIVE (63-TEETH)						
	5	1	7N-7539	2	WASHER-THRUST						
	6	1	7N-8374	2	COVER-PUMP						
	7	1	8N-8210	1	ADAPTER AS						
	7A	1	127-5400	1	BEARING-SLEEVE						
B	8	1	8T-6757	1	PLUG-PIPE						
	9	1	235-3546	1	SEAL-O-RING						
	10	1	235-3548	1	SEAL-O-RING						
	11	1	0S-1592	4	BOLT (5/8-11X1.25-IN)						
	12	1	0S-1594	6	BOLT (3/8-16X1-IN)						
	13	1	1T-0765	6	BOLT (3/8-16X1-IN)						
	14	1	2B-2695	4	BOLT (5/16-18X0.875-IN)						
	15	1	5P-0840	1	SEAL-O-RING						
	16	1	5P-2546	12	BOLT-12 POINT HEAD (7/16-14X1.25-IN)						
	17	1	5P-8247	4	WASHER-HARD (17X32X3.5-MM THK)						
	18	1	6K-3772	12	BOLT-12 POINT HEAD (7/16-14X2.25-IN)						
	19	1	6V-3348	1	SEAL-O-RING						
	20	1	8T-6757	1	PLUG-PIPE						
	21	1	8T-6759	2	PLUG-PIPE						
	22	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)						
	23	1	9X-7371	2	SEAL-O-RING						

B-USE AS REQUIRED

BASIC ENGINE

8N-9166 DRIVE GP-ACCESSORY (contd.)

i02177518



GRAPHIC #1

<END>

g01102444

BASIC ENGINE

8N-9167 DRIVE GP-ACCESSORY-LOWER, LH

S/N: ZBA1-UP
STANDARD ROTATION
AN ATTACHMENT

SMCS-1207

i02292912

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5R-7136	1	WASHER-SEALING						
	2	1	5R-7137	2	WASHER-SEALING						
	3	1	7C-3258	1	WASHER AS-THRUST						
	3A	1	7N-2047	1	DOWEL						
	4	1	7C-3260	1	SHAFT						
	5	1	7E-0275	1	GEAR-WATER PUMP DRIVE (69-TEETH)						
	6	1	7N-5279	1	ADAPTER AS						
		1	7N-5278	1	ADAPTER						
	6A	1	127-5400	1	BEARING-SLEEVE						
	7	1	7N-5874	1	SHAFT-AUXILIARY DRIVE						
	8	1	7N-7539	2	WASHER-THRUST						
	9	1	7N-8374	2	COVER-PUMP						
	10	1	8N-8210	1	ADAPTER AS						
	10A	1	127-5400	1	BEARING-SLEEVE						
C	11	1	144-8263	1	GEAR AS-IDLER (53-TEETH)						
	11A	1	140-9597	1	BEARING-SLEEVE						
	12	1	0S-1592	4	BOLT (5/8-11X1.25-IN)						
	13	1	0S-1594	6	BOLT (3/8-16X1-IN)						
	14	1	0T-0055	1	BOLT (3/8-16X4.25-IN)						
	15	1	235-3546	1	SEAL-O-RING						
	16	1	1T-0765	6	BOLT (3/8-16X1-IN)						
	17	1	2B-2695	4	BOLT (5/16-18X0.875-IN)						
	18	1	5P-0840	1	SEAL-O-RING						
	19	1	6V-3348	1	SEAL-O-RING						
	20	1	9X-7371	2	SEAL-O-RING						
	21	1	5M-2894	1	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	22	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
	23	1	5P-8247	4	WASHER-HARD (17X32X3.5-MM THK)						
	24	1	235-3548	2	SEAL-O-RING						
	25	1	8T-6757	2	PLUG-PIPE						
C	26	1	8T-6759	2	PLUG-PIPE						
	27	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)						
	28	1	9X-8879	2	BOLT (1/2-13X5.5-IN)						
B	29	1	6K-3771	12	BOLT-12 POINT HEAD (7/16-14X1.5-IN)						

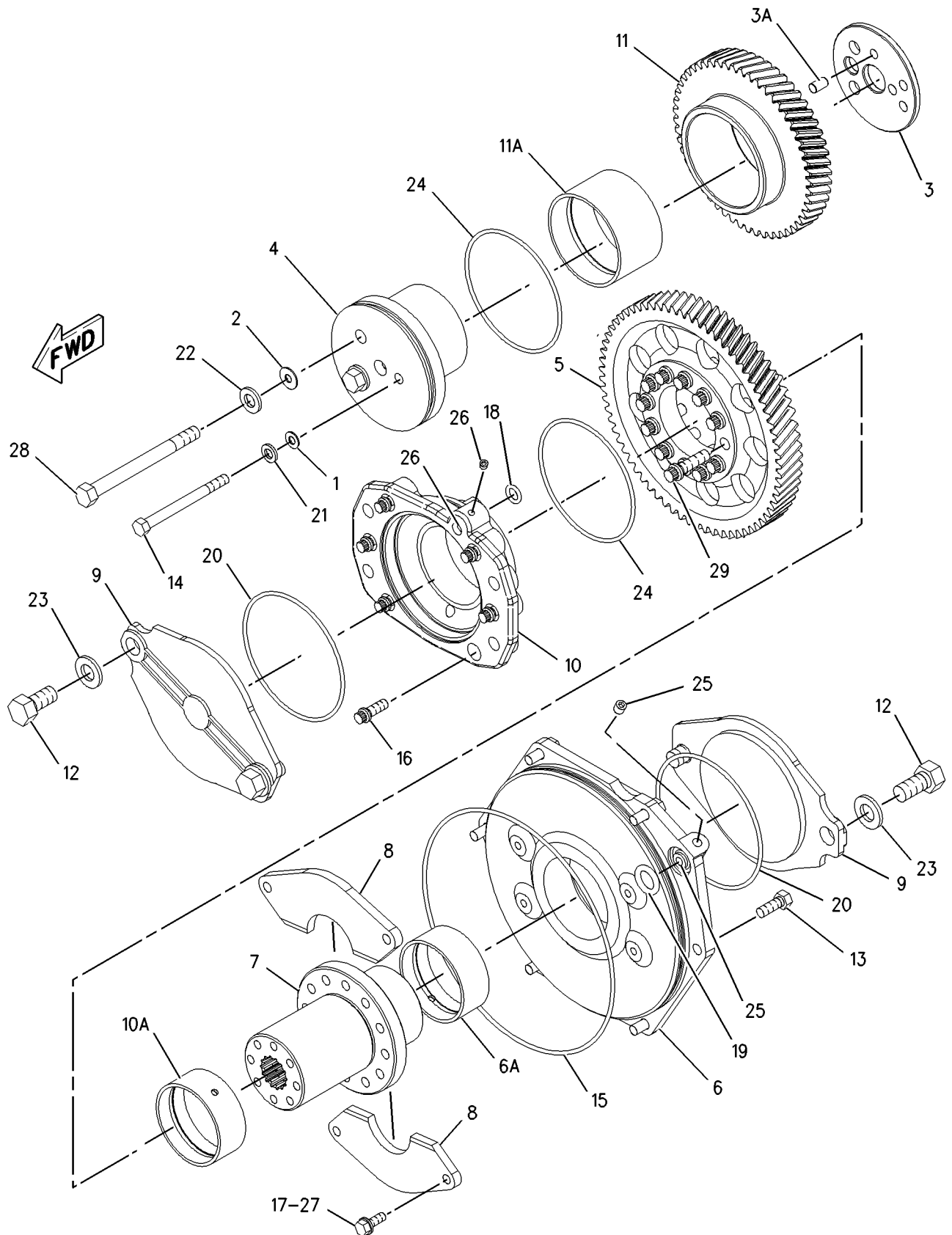
B-USE AS REQUIRED

C-CHANGE FROM PREVIOUS TYPE

BASIC ENGINE

8N-9167 DRIVE GP-ACCESSORY (contd.)

i02292912



GRAPHIC #1

<END>

g00950842

BASIC ENGINE

199-3429 DRIVE GP-ACCESSORY-LOWER, LH

S/N: ZBA1-UP

1500-RPM. STANDARD ROTATION

SMCS-1207

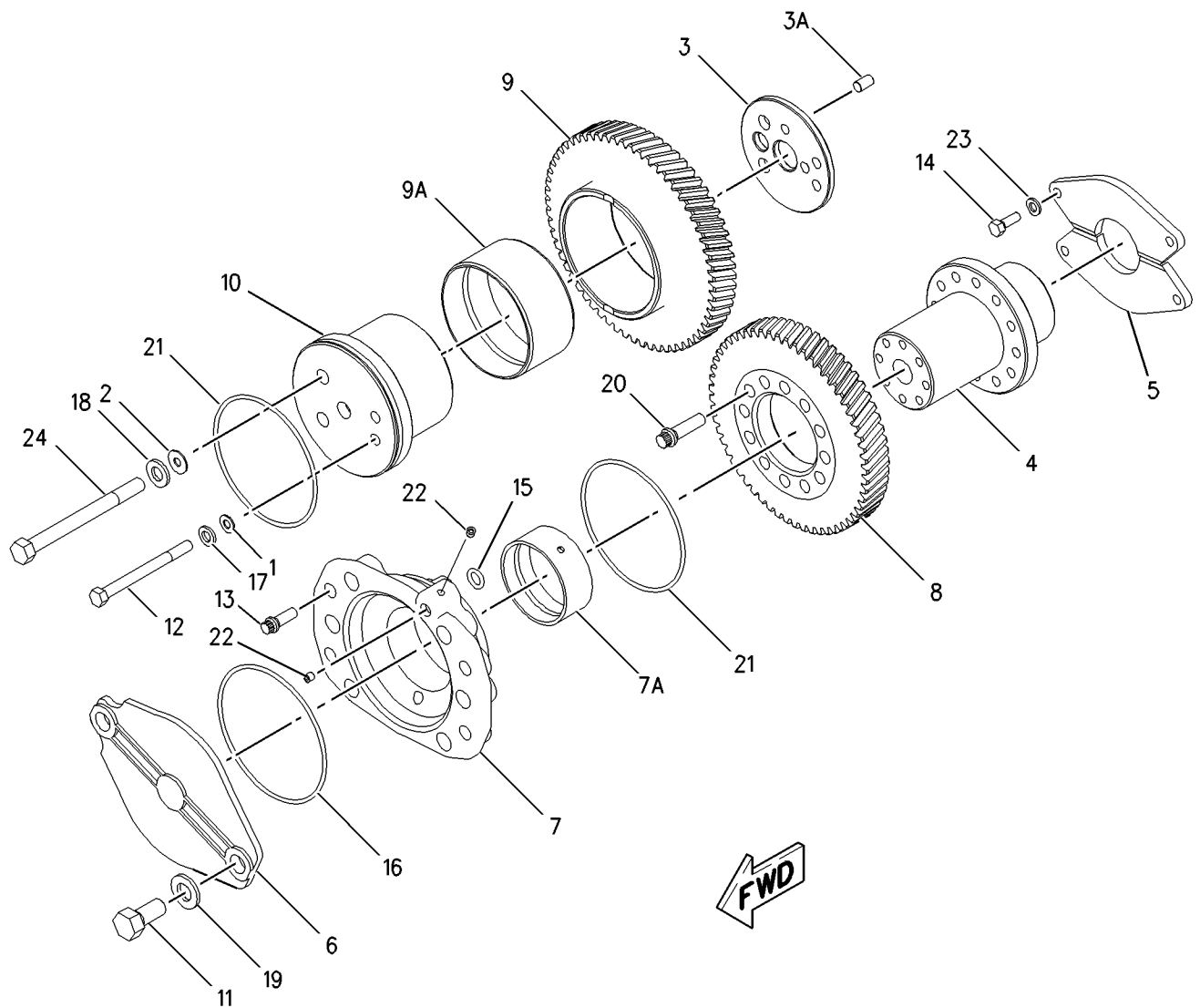
i02506627

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	5R-7136	2	WASHER-SEALING	
	2	1	5R-7137	2	WASHER-SEALING	
	3	1	164-4995	1	WASHER AS (THRUST)	
	3A	1	7N-2047	1	DOWEL	
	4	1	7N-5874	1	SHAFT-AUXILIARY DRIVE	
	5	1	7N-7539	2	WASHER-THRUST	
	6	1	7N-8374	1	COVER-PUMP	
	7	1	8N-8210	1	ADAPTER AS	
	7A	1	127-5400	1	BEARING-SLEEVE	
	8	1	151-0147	1	GEAR (57-TEETH)	
	9	1	155-2307	1	GEAR AS-IDLER (61-TEETH)	
	9A	1	116-1365	1	BEARING	
	10	1	199-2889	1	SHAFT-IDLER	
	11	1	0S-1592	2	BOLT (5/8-11X1.25-IN)	
	12	1	0T-0055	2	BOLT (3/8-16X4.25-IN)	
	13	1	1T-0765	6	BOLT (3/8-16X1-IN)	
	14	1	2B-2695	4	BOLT (5/16-18X0.875-IN)	
	15	1	5P-0840	1	SEAL-O-RING	
	16	1	9X-7371	1	SEAL-O-RING	
	17	1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	18	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)	
	19	1	5P-8247	2	WASHER-HARD (17X32X3.5-MM THK)	
	20	1	6K-3771	12	BOLT-12 POINT HEAD (7/16-14X1.5-IN)	
	21	1	235-3548	2	SEAL-O-RING	
	22	1	8T-6759	2	PLUG-PIPE	
	23	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)	
	24	1	9X-8879	2	BOLT (1/2-13X5.5-IN)	

BASIC ENGINE

199-3429 DRIVE GP-ACCESSORY (contd.)

i02506627



GRAPHIC #1

<END>

g00810824

BASIC ENGINE

216-7097 DRIVE GP-ACCESSORY-UPPER, RH

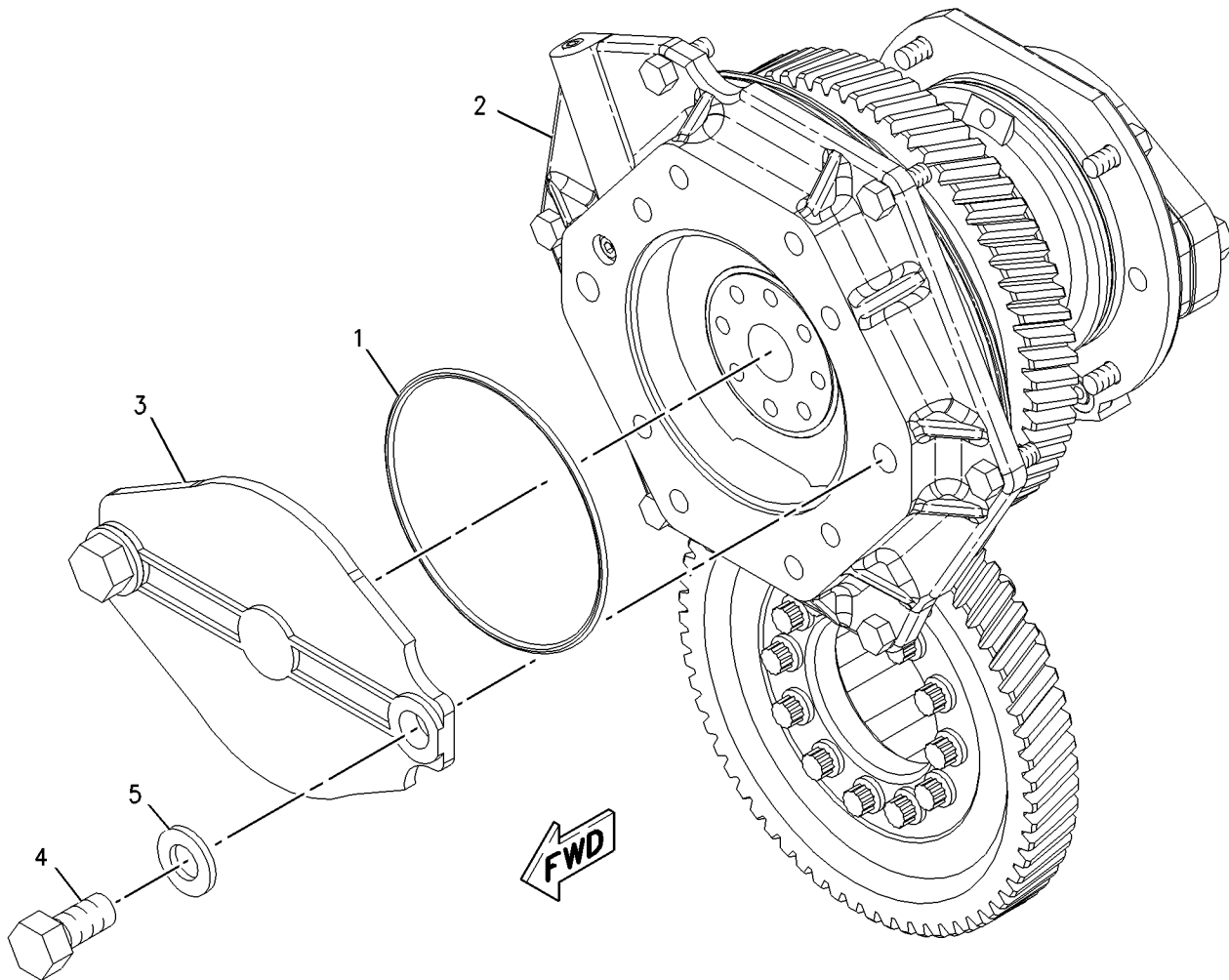
S/N: ZBA1-UP
STANDARD ROTATION
AN ATTACHMENT

SMCS-1207

i02006837

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9X-7371	1	SEAL-O-RING						
Y	2	1	7N-4871	1	DRIVE GP-ACCESSORY (UPPER, RH)						100
	3	1	7N-8374	1	COVER-PUMP						
	4	1	0S-1592	2	BOLT (5/8-11X1.25-IN)						
	5	1	5P-8247	2	WASHER-HARD (17X32X3.5-MM THK)						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00952067

BASIC ENGINE

7N-7660 DRIVE GP-FAN

S/N: ZBA1-UP

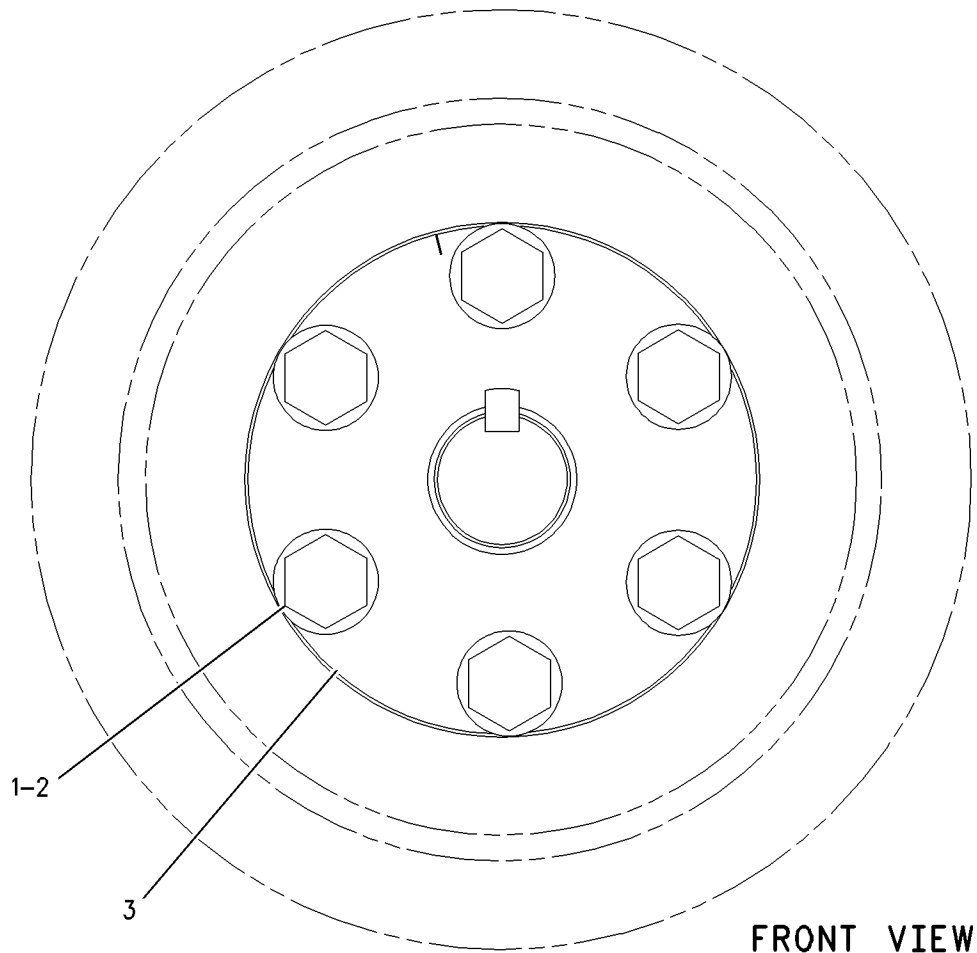
LOW KILOWATT

PART OF 254-2204 PULLEY GP-FAN DRIVE
AN ATTACHMENT

SMCS-1359

i02220725

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-8250	6	WASHER (28X49X5-MM THK)						
	2	1	9F-8122	6	BOLT (1-14X9-IN)						
	3	1	7N-7057	1	SHAFT-STUB						



FRONT VIEW

GRAPHIC #1

<END>

g00994930

BASIC ENGINE

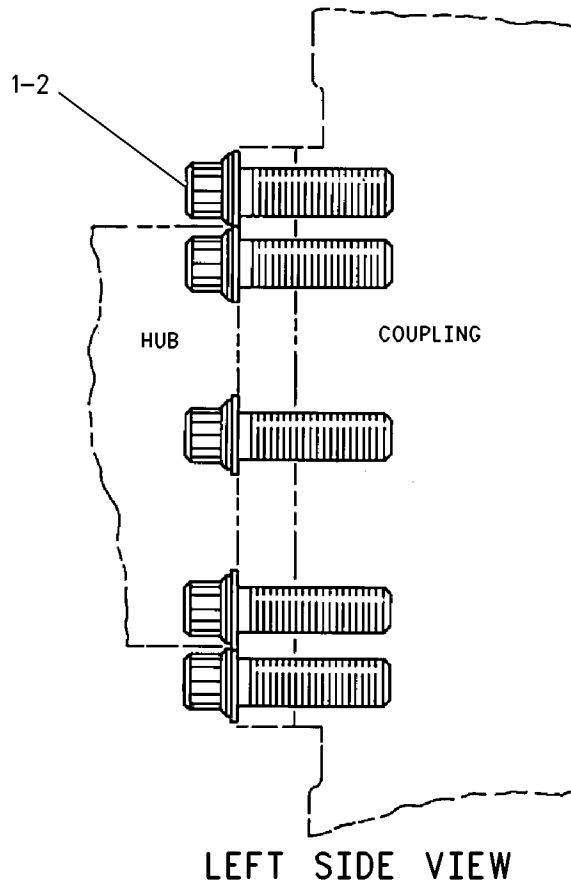
3N-8647 FASTENER GP-COUPLING

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-3279, 4456

i02220681

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	201-8899	8	BOLT-12 POINT HEAD (7/8-9X3-IN)						
	2	1	8C-6913	8	WASHER-HARD (24X41.5X4-MM THK)						



GRAPHIC #1

<END>

g00899192

BASIC ENGINE

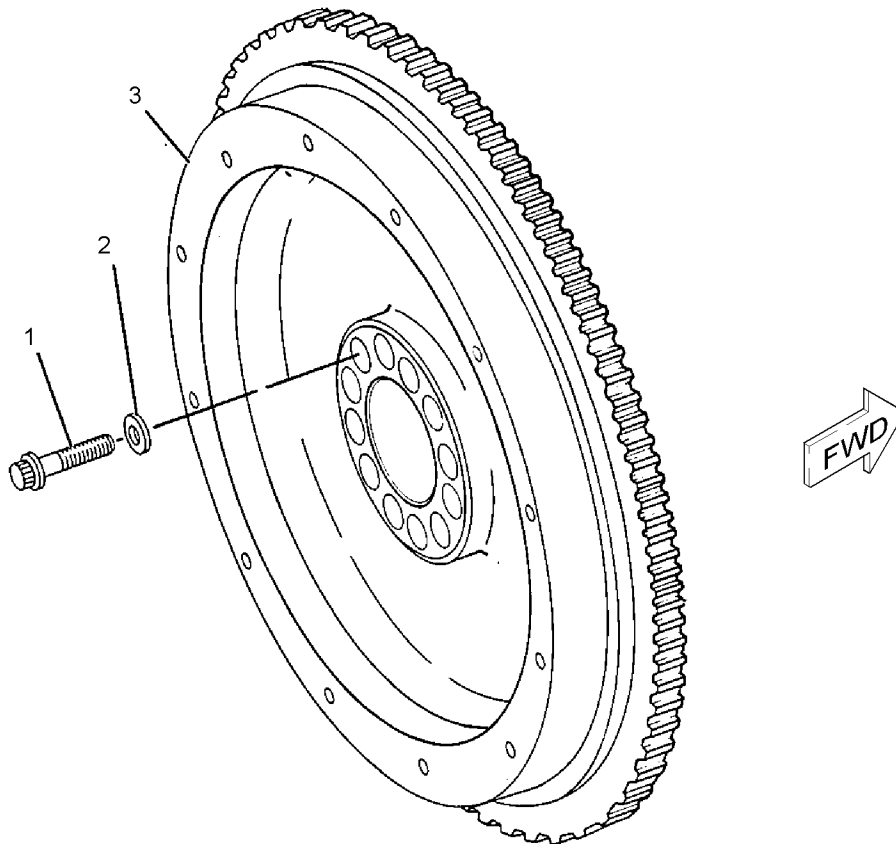
2W-8772 FLYWHEEL GP

S/N: ZBA1-UP

SMCS-1156

i02140258

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9S-8893	12	BOLT-12 POINT HEAD (1-14X101.6-MM)						
	2	1	5P-8839	12	WASHER-HARD (28X42X4-MM THK)						
	3	1	243-3219	1	FLYWHEEL AS						
		1	233-0643	1	GEAR-FLYWHEEL (183-TEETH)						



GRAPHIC #1

<END>

g01061156

BASIC ENGINE

8N-7174 GEAR GP-FRONT-STANDARD ROTATION

S/N: ZBA1-UP

SMCS-1151, 1162, 1206

i02405456

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-2895	1	GEAR-CRANKSHAFT (92-TEETH)						
	2	1	5R-7136	1	WASHER-SEALING						
	3	1	5R-7137	2	WASHER-SEALING						
	4	1	7C-3258	1	WASHER AS-THRUST						
	4A	1	7N-2047	1	DOWEL						
	5	1	7C-3260	1	SHAFT						
	6	1	7E-0275	1	GEAR-WATER PUMP DRIVE (69-TEETH)						
	7	1	7N-5239	1	SHAFT AS-PUMP DRIVE						
	7A	1	8T-2153	1	SETSCREW-SOCKET (1/4-28X0.31-IN)						
	8	1	7N-5245	1	ADAPTER AS-PUMP (WATER)						
	8A	1	127-5400	1	BEARING-SLEEVE						
	9	1	7N-5246	2	WASHER-THRUST						
C	10	1	144-8263	1	GEAR AS-IDLER (53-TEETH)						
	10A	1	140-9597	1	BEARING-SLEEVE						
	11	1	235-3546	1	SEAL-O-RING						
	12	1	235-3548	2	SEAL-O-RING						
	13	1	278-4287	1	ADAPTER AS-PUMP (OIL)						
	13A	1	127-5400	1	BEARING-SLEEVE						
	14	1	0S-1590	5	BOLT (3/8-16X2-IN)						
	15	1	0S-1594	2	BOLT (3/8-16X1-IN)						
	16	1	0T-0055	1	BOLT (3/8-16X4.25-IN)						
	17	1	3S-1307	12	BOLT-12 POINT HEAD (3/8-16X2-IN)						
	18	1	4B-3388	4	BOLT (5/16-18X1.125-IN)						
	19	1	5M-2894	6	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	20	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
	21	1	6V-3348	1	SEAL-O-RING						
	22	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)						
	23	1	9X-8879	2	BOLT (1/2-13X5.5-IN)						
BC	24	1	6K-3771	12	BOLT-12 POINT HEAD (7/16-14X1.5-IN)						

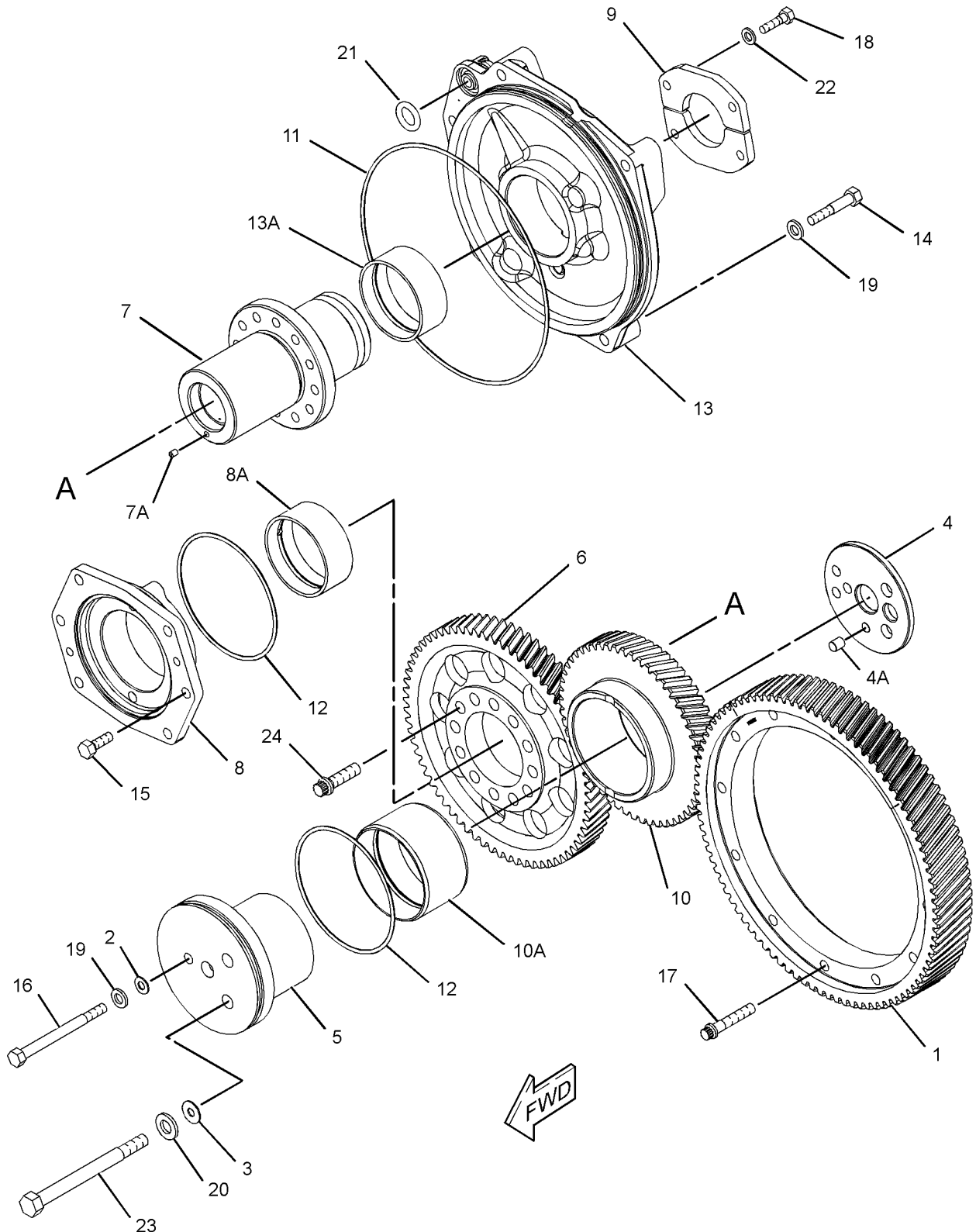
B- USE AS REQUIRED

C- CHANGE FROM PREVIOUS TYPE

BASIC ENGINE

8N-7174 GEAR GP-FRONT (contd.)

i02405456



GRAPHIC #1

<END>

g01202529

BASIC ENGINE

122-9281 GEAR GP-FRONT-LOW SPEED, STANDARD ROTATION

S/N: ZBA1-UP

SMCS-1151, 1162, 1206

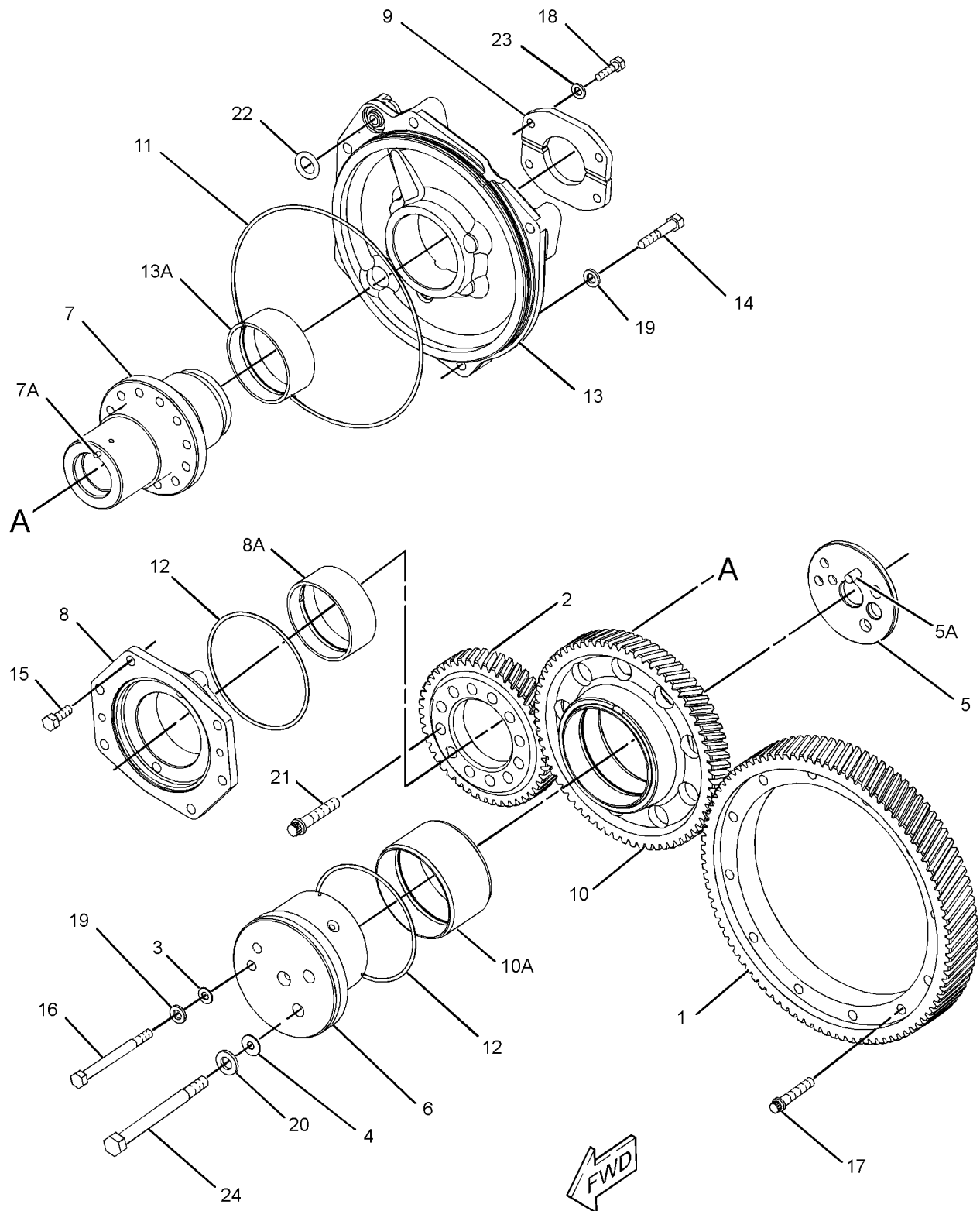
i02405455

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-2895	1	GEAR-CRANKSHAFT (92-TEETH)						
	2	1	2W-7320	1	GEAR-ACCESSORY DRIVE (46-TEETH)						
	3	1	5R-7136	2	WASHER-SEALING						
	4	1	5R-7137	2	WASHER-SEALING						
	5	1	7C-3258	1	WASHER AS-THRUST						
	5A	1	7N-2047	1	DOWEL						
	6	1	7C-3259	1	SHAFT						
	7	1	7N-5239	1	SHAFT AS-PUMP DRIVE						
	7A	1	8T-2153	1	SETSCREW-SOCKET (1/4-28X0.31-IN)						
	8	1	7N-5245	1	ADAPTER AS-PUMP						
	8A	1	127-5400	1	BEARING-SLEEVE						
	9	1	7N-5246	2	WASHER-THRUST						
	10	1	116-3242	1	GEAR AS-IDLER (66-TEETH)						
	10A	1	116-1365	1	BEARING						
	11	1	235-3546	2	SEAL-O-RING						
	12	1	235-3548	1	SEAL-O-RING						
	13	1	278-4287	1	ADAPTER AS-PUMP						
	13A	1	127-5400	1	BEARING-SLEEVE						
	14	1	0S-1590	5	BOLT (3/8-16X2-IN)						
	15	1	0S-1594	2	BOLT (3/8-16X1-IN)						
	16	1	0T-0055	2	BOLT (3/8-16X4.25-IN)						
	17	1	3S-1307	12	BOLT-12 POINT HEAD (3/8-16X2-IN)						
	18	1	4B-3388	4	BOLT (5/16-18X1.125-IN)						
	19	1	5M-2894	7	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	20	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
	21	1	6K-3772	12	BOLT-12 POINT HEAD (7/16-14X2.25-IN)						
	22	1	6V-3348	1	SEAL-O-RING						
	23	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)						
	24	1	9X-8879	2	BOLT (1/2-13X5.5-IN)						

BASIC ENGINE

122-9281 GEAR GP - FRONT (contd.)

i02405455



GRAPHIC #1

<END>

g01202801

BASIC ENGINE

155 - 8502 GEAR GP - FRONT

S/N: ZBA1-UP

TYPE 1

SMCS-1151, 1162, 1206

i02230591

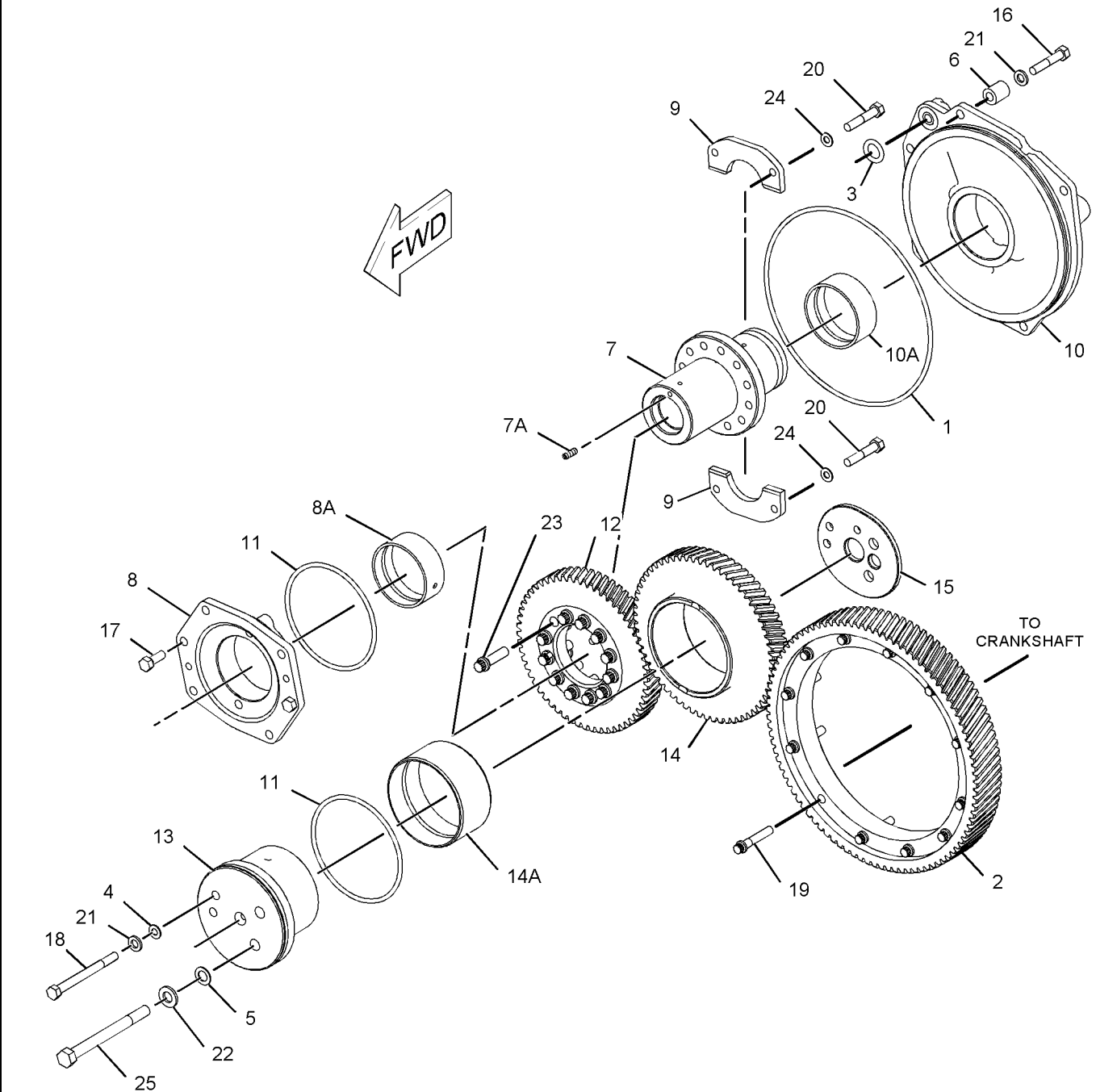
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	1	1	235-3546	1	SEAL-O-RING						
	2	1	2W-2895	1	GEAR-CRANKSHAFT (92-TEETH)						
C	3	1	6V-3348	1	SEAL-O-RING						
	4	1	5R-7136	2	WASHER-SEALING						
	5	1	5R-7137	2	WASHER-SEALING						
	6	1	7C-8246	5	SPACER (10.5X20X24-MM THK)						
	7	1	7N-5239	1	SHAFT AS-PUMP DRIVE						
	7A	1	8T-2153	1	SETSCREW-SOCKET (1/4-28X0.31-IN)						
	8	1	7N-5245	1	ADAPTER AS-PUMP						
	8A	1	127-5400	1	BEARING-SLEEVE						
	9	1	7N-5246	2	WASHER-THRUST						
	10	1	7N-5263	1	ADAPTER AS-PUMP						
	10A	1	127-5400	1	BEARING-SLEEVE						
C	11	1	235-3548	2	SEAL-O-RING						
	12	1	151-0147	1	GEAR (57-TEETH)						
	13	1	151-0149	1	SHAFT-IDLER						
	14	1	155-2307	1	GEAR AS-IDLER (61-TEETH)						
	14A	1	116-1365	1	BEARING						
	15	1	164-4995	1	WASHER AS (THRUST)						
	16	1	0S-1590	5	BOLT (3/8-16X2-IN)						
	17	1	0S-1594	2	BOLT (3/8-16X1-IN)						
	18	1	0T-0055	2	BOLT (3/8-16X4.25-IN)						
	19	1	3S-1307	12	BOLT-12 POINT HEAD (3/8-16X2-IN)						
	20	1	4B-3388	4	BOLT (5/16-18X1.125-IN)						
	21	1	5M-2894	7	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	22	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
	23	1	6K-3771	12	BOLT-12 POINT HEAD (7/16-14X1.5-IN)						
	24	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)						
	25	1	9X-8879	2	BOLT (1/2-13X5.5-IN)						

C- CHANGE FROM PREVIOUS TYPE

BASIC ENGINE

155-8502 GEAR GP - FRONT (contd.)

i02230591



<END>

g01125187

BASIC ENGINE

155 - 8502 GEAR GP - FRONT

S/N: ZBA1-UP

TYPE 2

SMCS-1151, 1162, 1206

i02490594

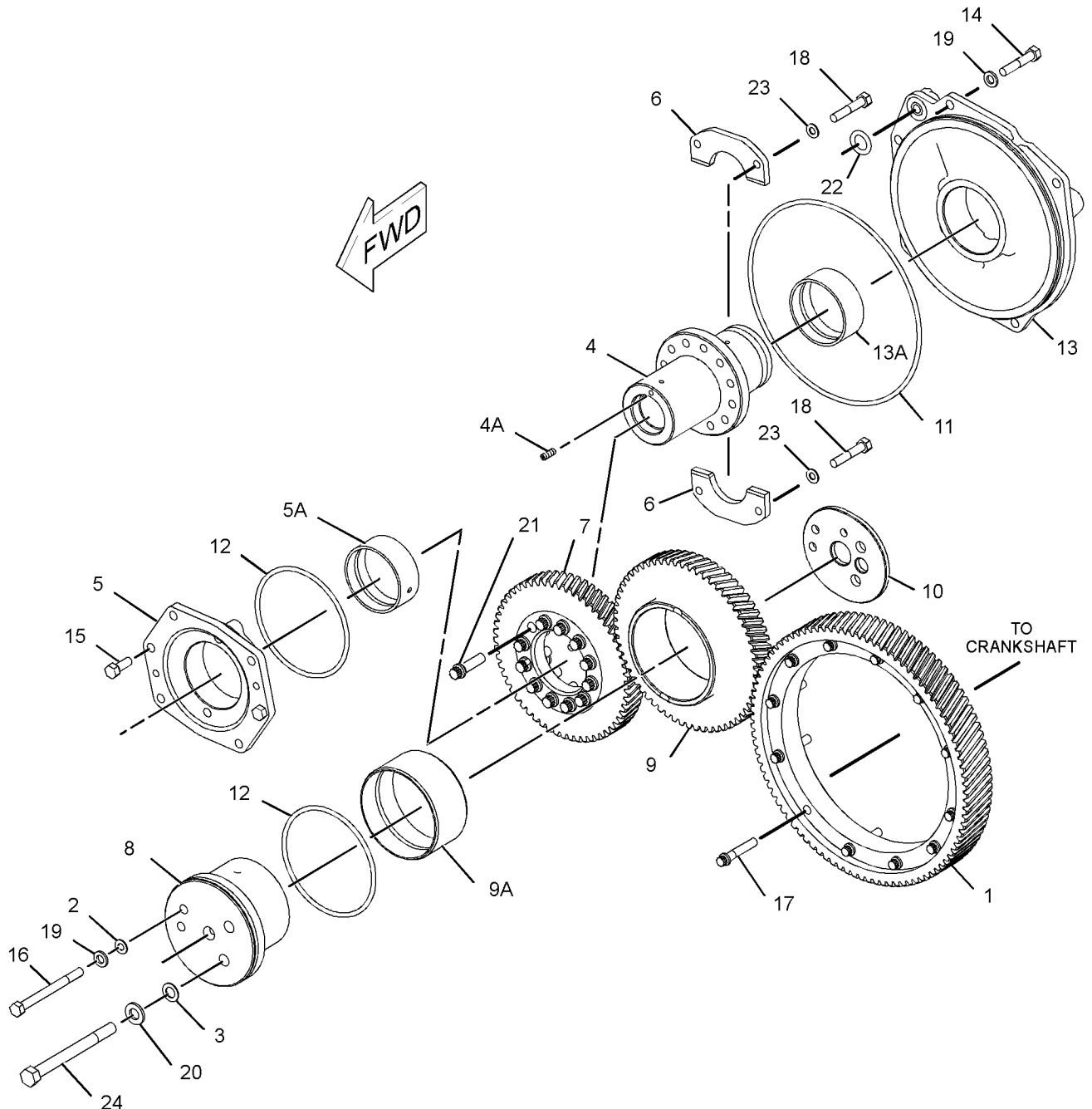
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-2895	1	GEAR-CRANKSHAFT (92-TEETH)						
	2	1	5R-7136	2	WASHER-SEALING						
	3	1	5R-7137	2	WASHER-SEALING						
	4	1	7N-5239	1	SHAFT AS-PUMP DRIVE						
	4A	1	8T-2153	1	SETSCREW-SOCKET (1/4-28X0.31-IN)						
	5	1	7N-5245	1	ADAPTER AS-PUMP (WATER)						
	5A	1	127-5400	1	BEARING-SLEEVE						
	6	1	7N-5246	2	WASHER-THRUST						
	7	1	151-0147	1	GEAR (57-TEETH)						
	8	1	151-0149	1	SHAFT-IDLER						
	9	1	155-2307	1	GEAR AS-IDLER (61-TEETH)						
	9A	1	116-1365	1	BEARING						
	10	1	164-4995	1	WASHER AS (THRUST)						
		1	7N-2047	1	DOWEL						
	11	1	235-3546	1	SEAL-O-RING						
	12	1	235-3548	2	SEAL-O-RING						
C	13	1	278-4287	1	ADAPTER AS-PUMP (OIL)						
	13A	1	127-5400	1	BEARING-SLEEVE						
	14	1	0S-1590	5	BOLT (3/8-16X2-IN)						
	15	1	0S-1594	2	BOLT (3/8-16X1-IN)						
	16	1	0T-0055	2	BOLT (3/8-16X4.25-IN)						
	17	1	3S-1307	12	BOLT-12 POINT HEAD (3/8-16X2-IN)						
	18	1	4B-3388	4	BOLT (5/16-18X1.125-IN)						
	19	1	5M-2894	7	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	20	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
	21	1	6K-3771	12	BOLT-12 POINT HEAD (7/16-14X1.5-IN)						
	22	1	6V-3348	1	SEAL-O-RING						
	23	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)						
	24	1	9X-8879	2	BOLT (1/2-13X5.5-IN)						

C- CHANGE FROM PREVIOUS TYPE

BASIC ENGINE

155-8502 GEAR GP - FRONT (contd.)

i02490594



GRAPHIC #1

<END>

g01245234

BASIC ENGINE

112-5674 GEAR GP - REAR

S/N: ZBA1-UP

SMCS-1204

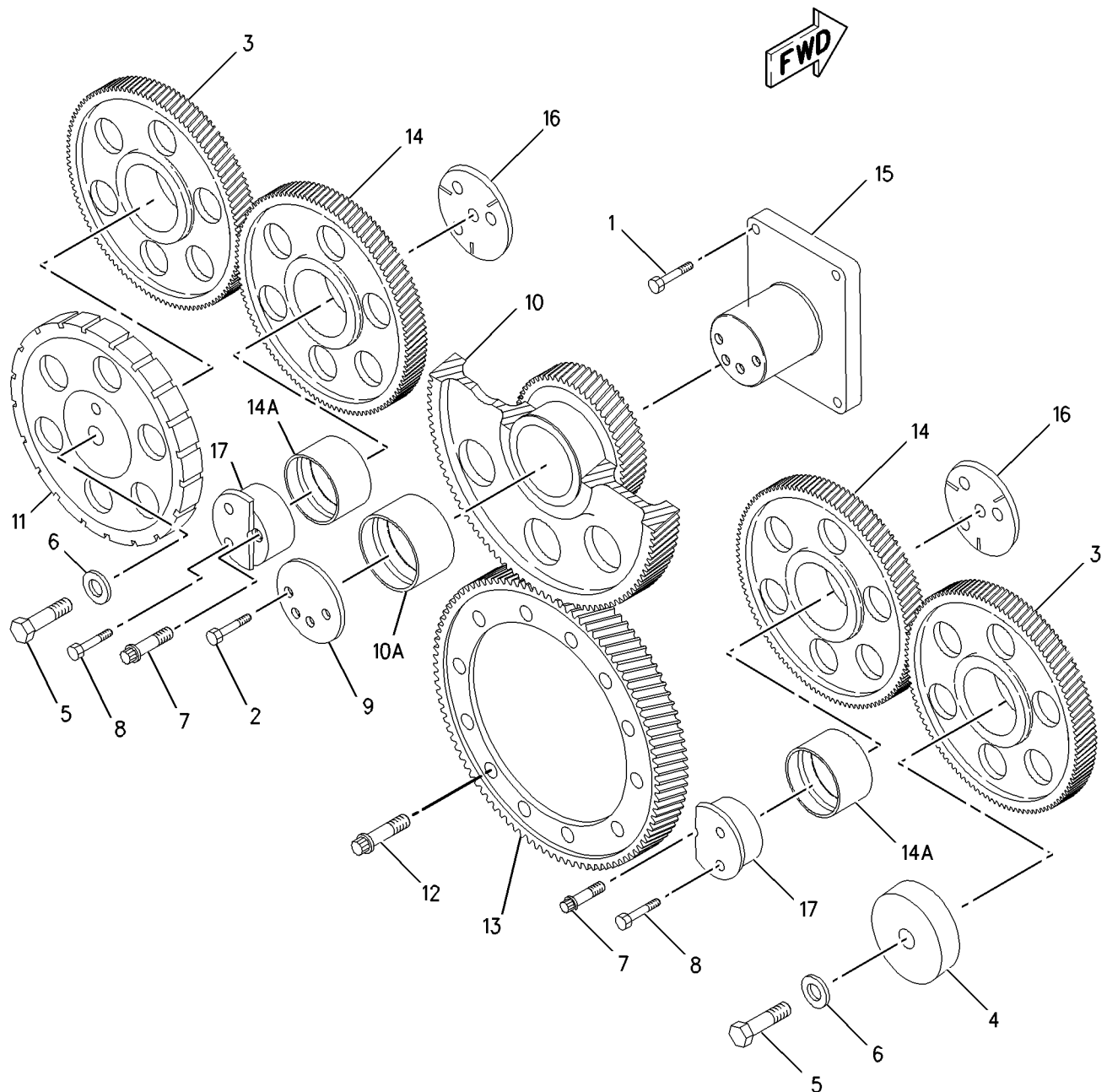
i02050058

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8M-2530	4	BOLT-12 POINT HEAD (1/2-13X1.25-IN)						
	2	1	0L-1351	4	BOLT (3/8-16X0.875-IN)						
	3	1	7E-3897	2	GEAR-CAMSHAFT DRIVE (88-TEETH)						
	4	1	4W-4586	1	PLATE						
	5	1	9X-8887	2	BOLT (3/4-10X3-IN)						
	6	1	5P-8248	2	WASHER-HARD (20X36.5X3.5-MM THK)						
	7	1	8S-2331	2	BOLT-12 POINT HEAD (5/8-11X2-IN)						
	8	1	1B-4367	4	BOLT (5/8-11X3-IN)						
	9	1	101-1365	1	PLATE-THRUST						
	10	1	107-2477	1	GEAR AS-IDLER (CLUSTER) (44, 92-TEETH)						
	10A	1	4P-5438	1	BEARING-SLEEVE						
	11	1	7E-5324	1	RING						
	12	1	3S-1307	12	BOLT-12 POINT HEAD (3/8-16X2-IN)						
	13	1	2W-2895	1	GEAR-CRANKSHAFT (92-TEETH)						
	14	1	112-1554	2	GEAR AS-IDLER						
					(EACH INCLUDES)						
	14A	1	125-9751	1	BEARING-SLEEVE						
	15	1	4P-5437	1	SHAFT-GEAR (CLUSTER)						
	16	1	101-1368	2	WASHER-THRUST (19.5X106X1.9-MM THK)						
	17	1	112-1552	2	SHAFT-IDLER						

BASIC ENGINE

112-5674 GEAR GP - REAR (contd.)

i02050058



GRAPHIC #1

<END>

g00650048

BASIC ENGINE

121-4748 GEAR GP - REAR

S/N: ZBA1-UP

SMCS-1204

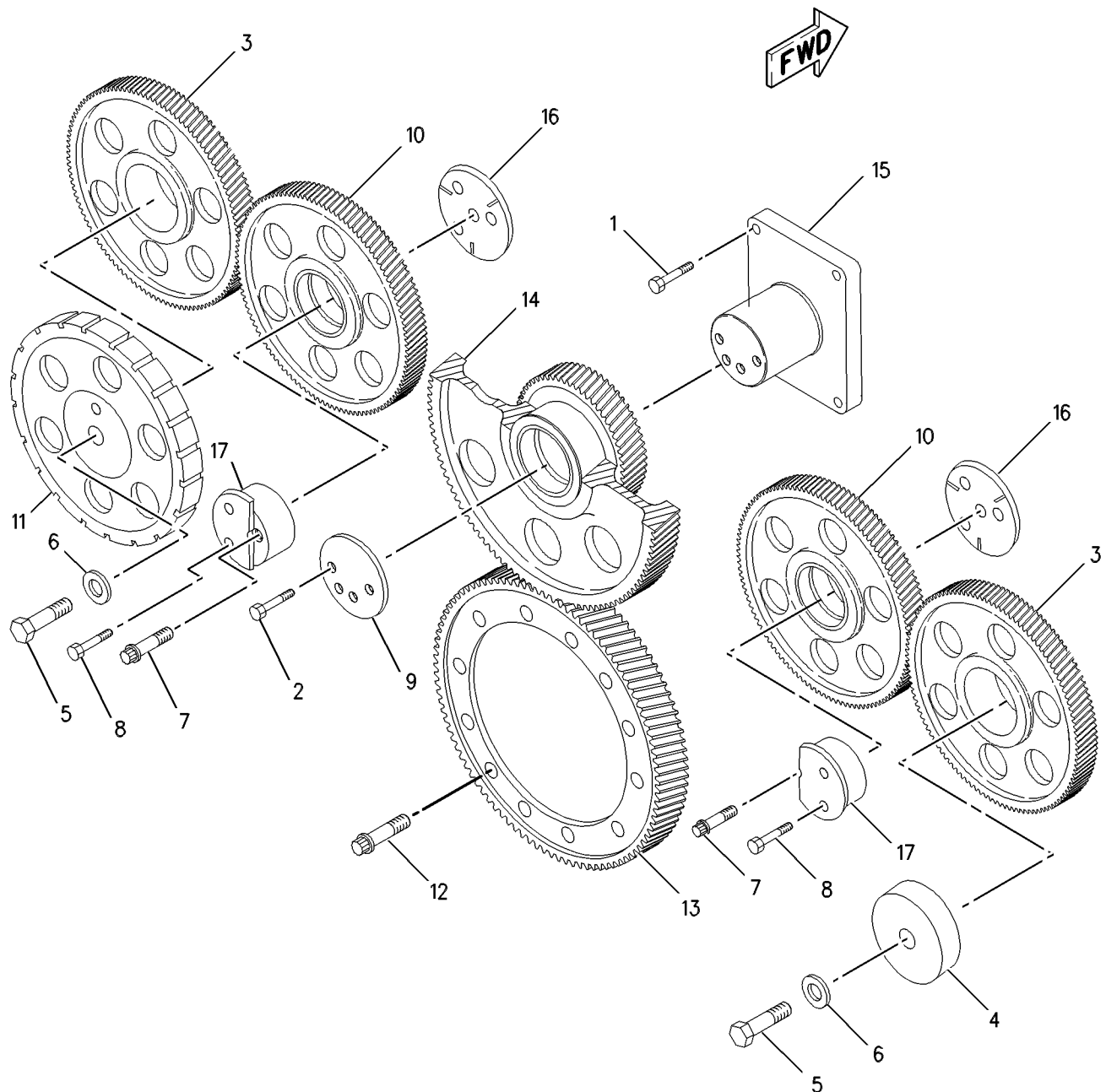
i02226189

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	8M-2530	4	BOLT-12 POINT HEAD (1/2-13X1.25-IN)	
	2	1	0L-1351	4	BOLT (3/8-16X0.875-IN)	
	3	1	7E-3897	2	GEAR-CAMSHAFT DRIVE (88-TEETH)	
	4	1	4W-4586	1	PLATE	
	5	1	9X-8887	2	BOLT (3/4-10X3-IN)	
	6	1	5P-8248	2	WASHER-HARD (20X36.5X3.5-MM THK)	
	7	1	8S-2331	2	BOLT-12 POINT HEAD (5/8-11X2-IN)	
	8	1	1B-4367	4	BOLT (5/8-11X3-IN)	
	9	1	101-1365	1	PLATE-THRUST	
	10	1	121-4749	2	GEAR AS (CAMSHAFT IDLER) (88-TEETH)	
	11	1	7E-5324	1	RING	
	12	1	3S-1307	12	BOLT-12 POINT HEAD (3/8-16X2-IN)	
	13	1	2W-2895	1	GEAR-CRANKSHAFT (92-TEETH)	
	14	1	115-5277	1	GEAR AS (92, 44-TEETH)	
	15	1	4P-5437	1	SHAFT-GEAR (CLUSTER)	
	16	1	121-4891	2	WASHER-THRUST	
	17	1	112-1552	1	SHAFT-IDLER	

BASIC ENGINE

121-4748 GEAR GP - REAR (contd.)

i02226189



GRAPHIC #1

<END>

g00622189

BASIC ENGINE

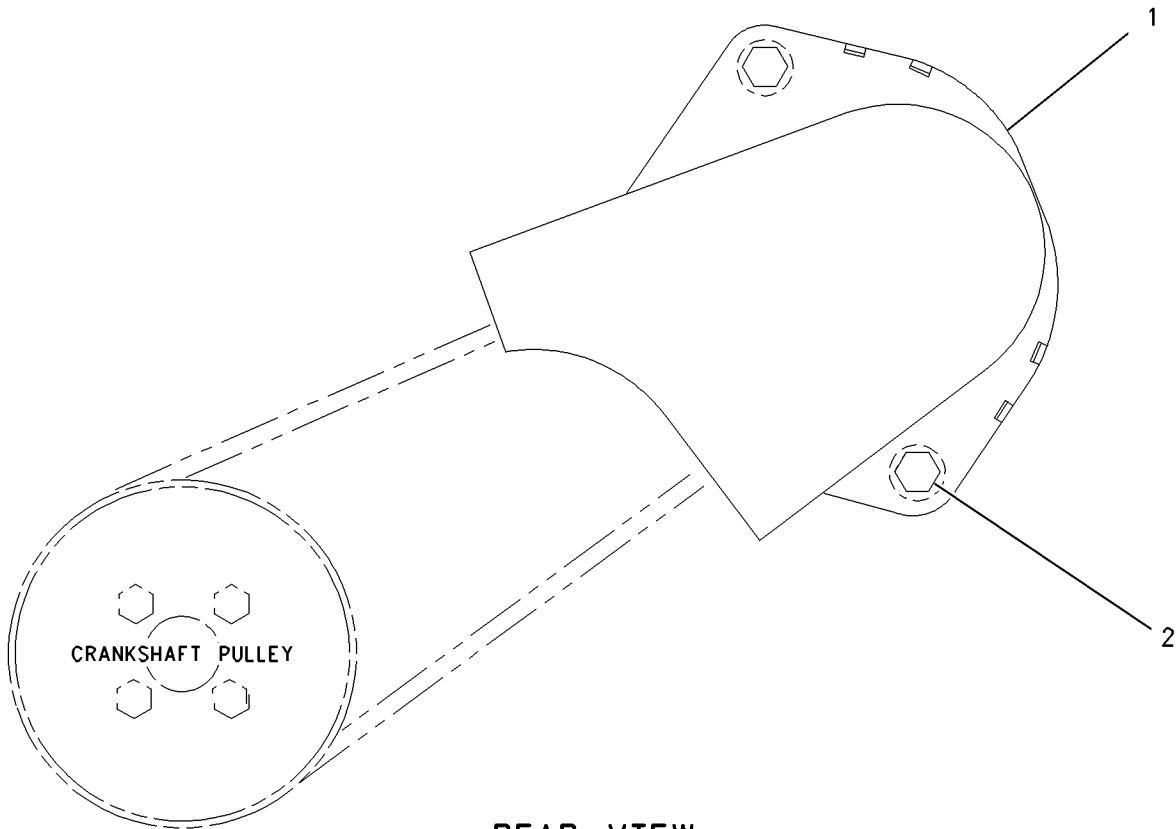
7W-5780 GUARD GP-BELT-ALTERNATOR

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-7174

i02562778

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	288-6174	1	GUARD AS-ALTERNATOR						
	2	1	278-0535	2	SPACER (13.87X21.34X11-MM THK)						



REAR VIEW

GRAPHIC #1

<END>

g00899240

BASIC ENGINE

151-9228 GUARD GP-BELT-ALTERNATOR

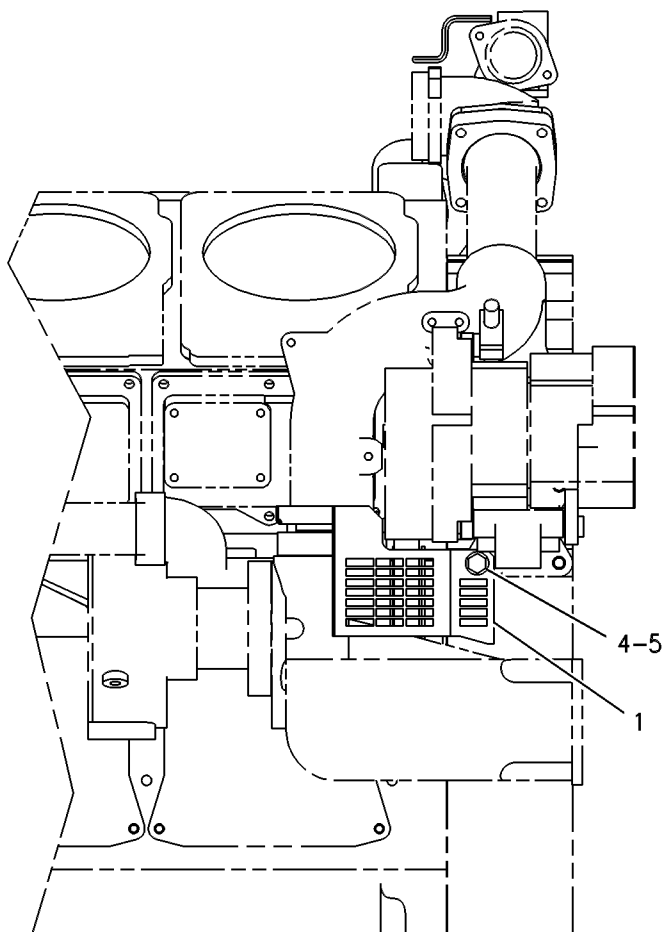
S/N: ZBA1-UP

AN ATTACHMENT

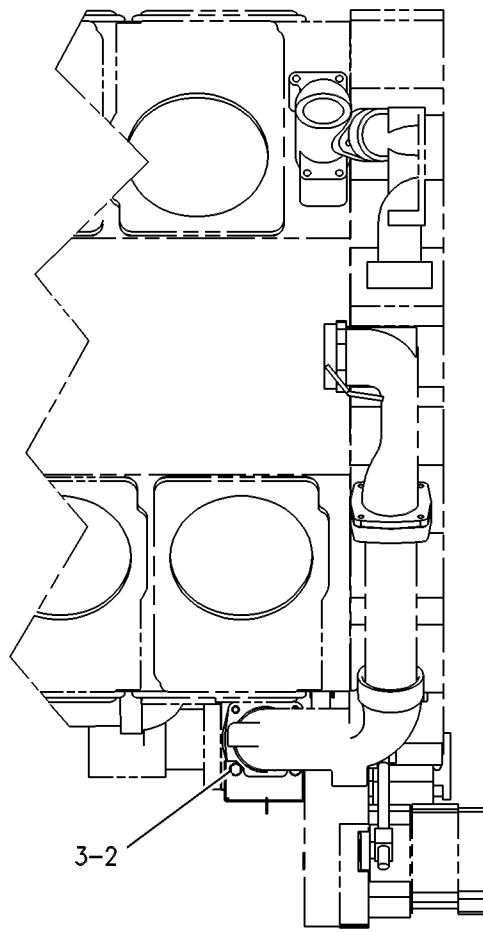
SMCS-7174

i01442458

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	171-1359	1	GUARD AS-BELT						
	2	1	8T-2501	2	BOLT (3/8-16X2-IN)						
	3	1	8T-4896	2	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	4	1	5P-2566	1	BOLT (1/2-13X1.5-IN)						
	5	1	8T-4223	1	WASHER-HARD (13.5X25.5X3-MM THK)						



RIGHT SIDE VIEW



TOP VIEW

GRAPHIC #1

<END>

g00333482

BASIC ENGINE

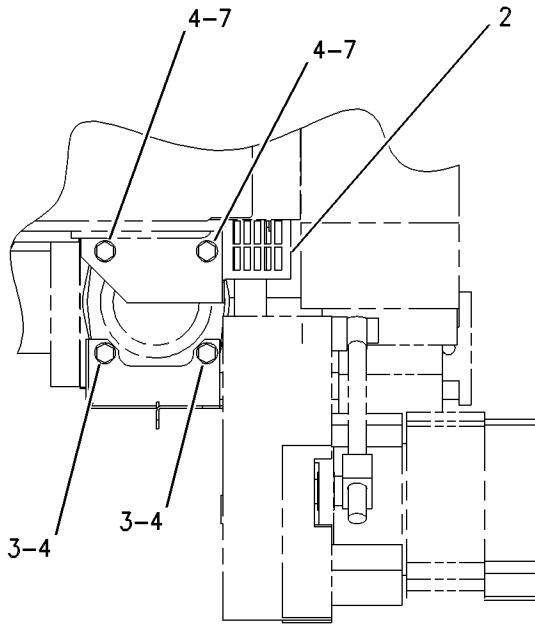
151-9229 GUARD GP-BELT-ALTERNATOR

S/N: ZBA1-UP
AN ATTACHMENT

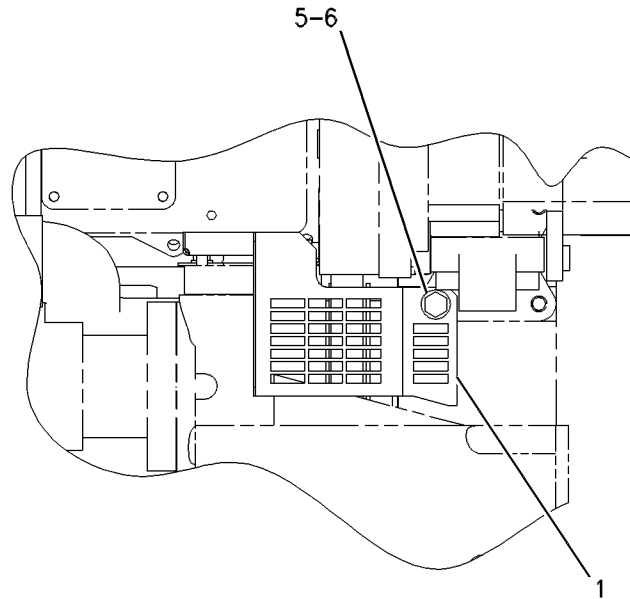
SMCS-7174

i01499571

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	171-1359	1	GUARD AS-BELT						
	2	1	171-1360	1	GUARD-BELT						
	3	1	8T-2501	2	BOLT (3/8-16X2-IN)						
	4	1	8T-4896	4	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	5	1	5P-2566	1	BOLT (1/2-13X1.5-IN)						
	6	1	8T-4223	1	WASHER-HARD (13.5X25.5X3-MM THK)						
	7	1	8T-2502	2	BOLT (3/8-16X1.125-IN)						



TOP VIEW



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g00323272

BASIC ENGINE

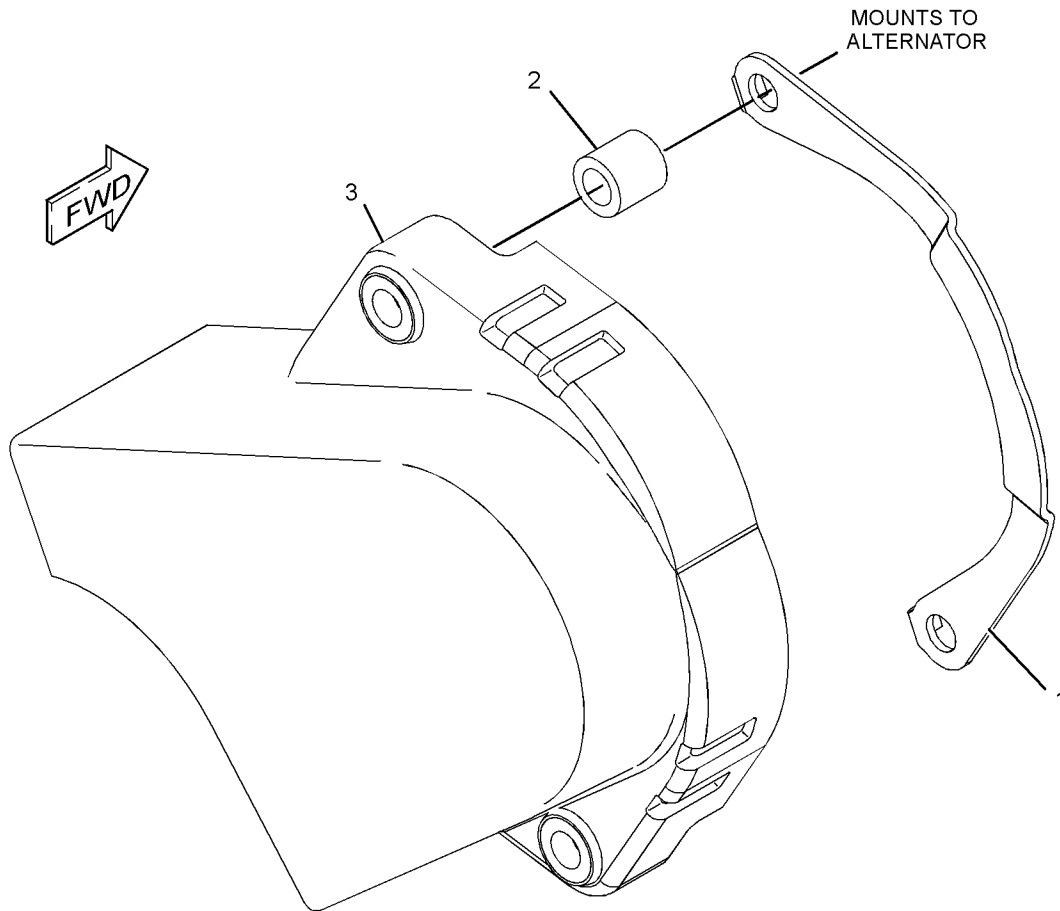
271-9270 GUARD GP-BELT-ALTERNATOR

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-7174

i02711909

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	268-5727	1	PLATE AS						
	2	1	211-5941	2	SPACER (17.6X21.3X8-MM THK)						
	3	1	288-6174	1	GUARD AS-ALTERNATOR						



GRAPHIC #1

<END>

g01278666

BASIC ENGINE

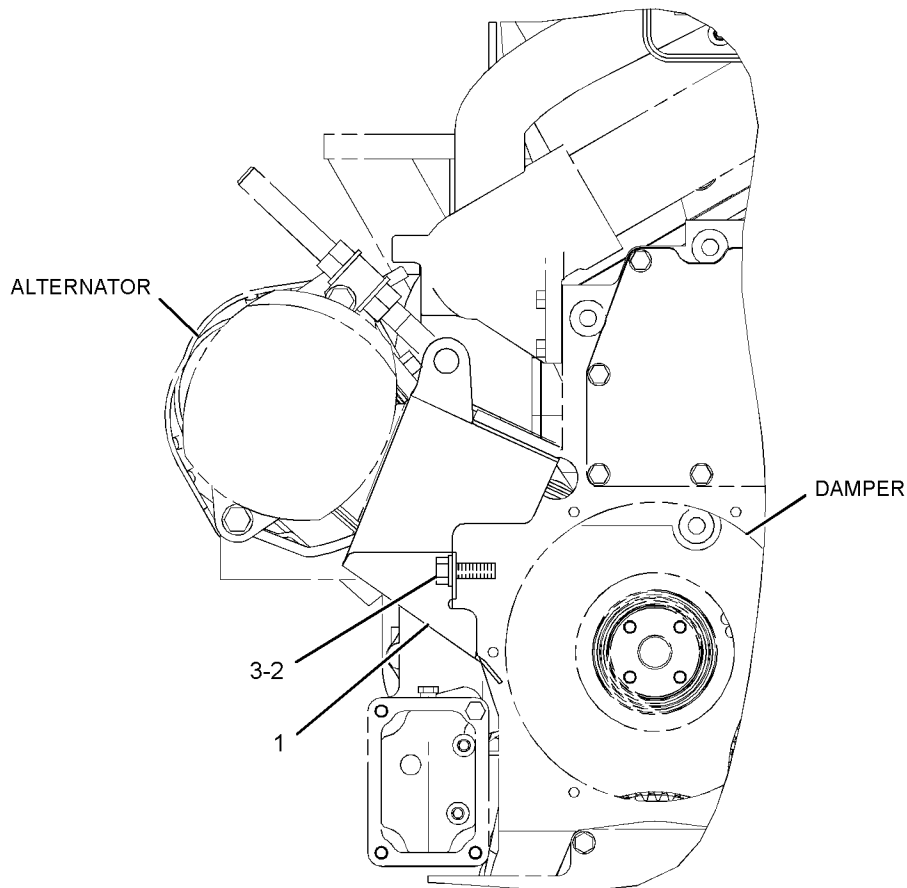
307-1569 GUARD GP-BELT-ALTERNATOR

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-7174

i02680449

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	302-7332	1	GUARD-ALTERNATOR						
	2	1	5P-2566	1	BOLT (1/2-13X1.5-IN)						
	3	1	8T-4223	1	WASHER-HARD (13.5X25.5X3-MM THK)						



FRONT VIEW OF ENGINE

<END>

GRAPHIC #1

g01346871

BASIC ENGINE

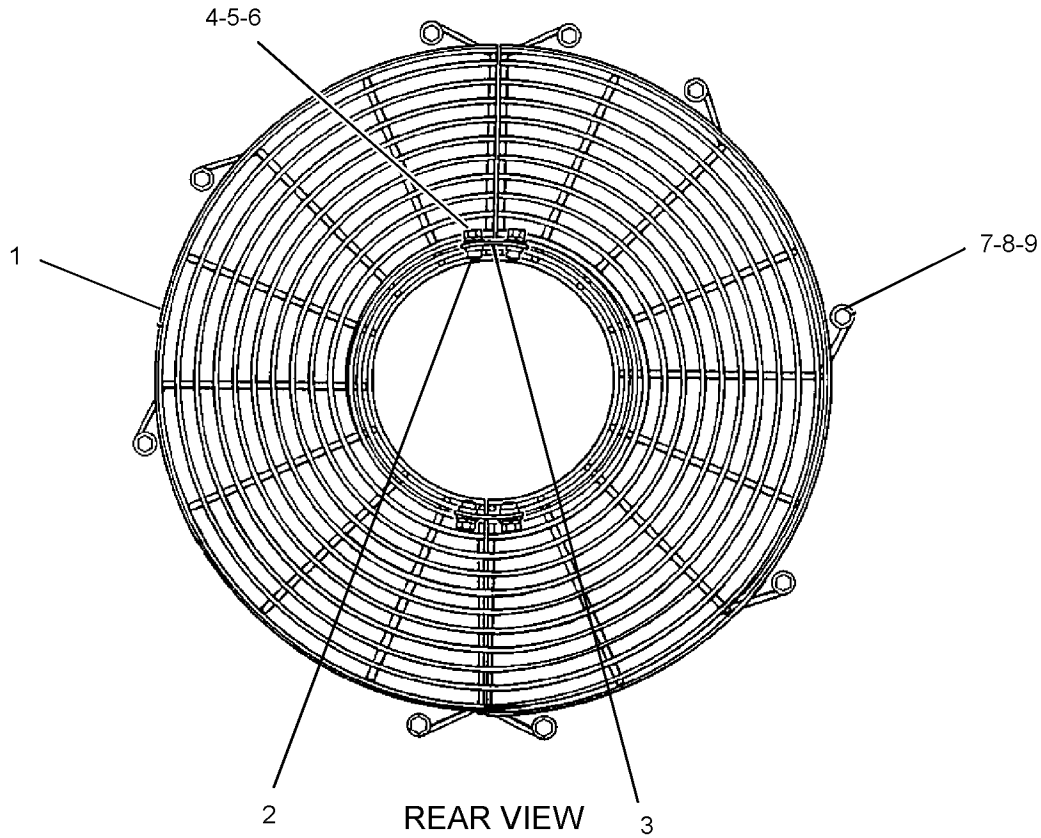
3N-5765 GUARD GP-COUPLING-FLYWHEEL

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-3279

i02468312

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	1	1	5N-4817	1	GUARD AS-COUPLING						
	2	1	2N-3385	4	NUT-CLIP (3/8-16-THD)						
	3	1	1V-0623	2	PLATE						
C	4	1	3L-9689	4	WASHER (10.5X25.4X5-MM THK)						
	5	1	3B-4506	4	LOCKWASHER						
	6	1	0S-1594	4	BOLT (3/8-16X1-IN)						
	7	1	4B-4280	10	WASHER (13.5X27X2.5-MM THK)						
	8	1	3B-4508	10	LOCKWASHER						
	C	9	1	0S-1621	10	BOLT (1/2-13X1-IN)					
C-CHANGE FROM PREVIOUS TYPE											



GRAPHIC #1

<END>

g01230975

BASIC ENGINE

8N-9639 GUARD GP-DAMPER

S/N: ZBA1-UP

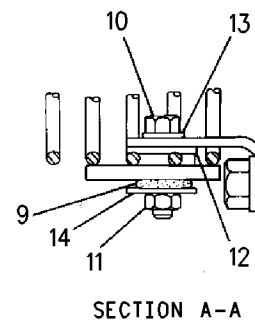
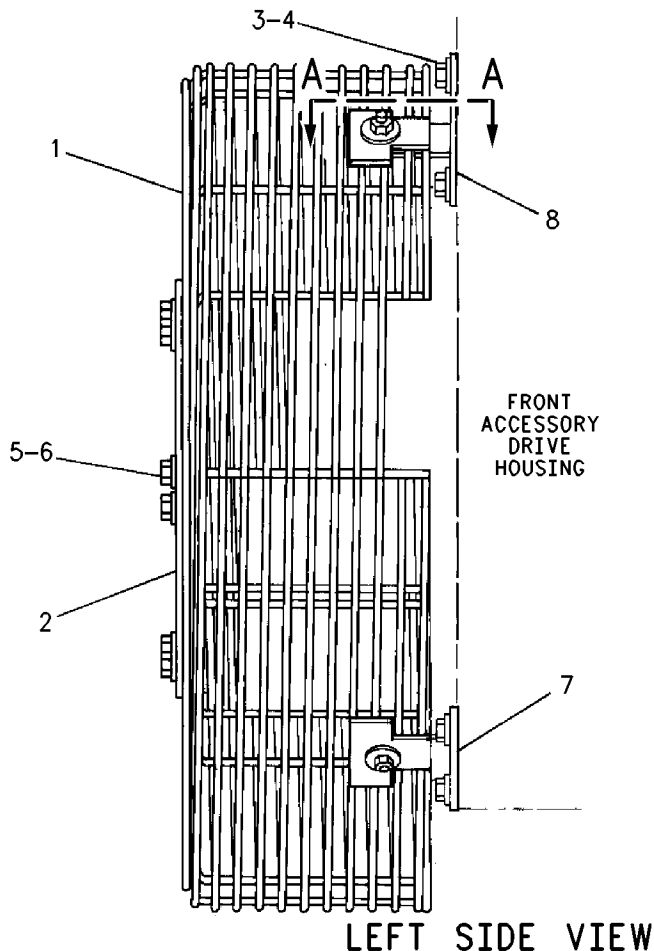
FOR USE WITH FRONT ACCESSORY DRIVE HOUSING
AN ATTACHMENT

SMCS-1205

i02139071

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1W-4923	1	DAMPER & GUARD AS						
		1	1V-8638	6	NUT (3/8-16 THD)						
	2	1	8J-8919	1	COVER						
	3	1	0S-1621	8	BOLT (1/2-13X1-IN)						
	4	1	5P-8245	8	WASHER-HARD (13.5X25.5X3-MM THK)						
	5	1	030-8535	6	BOLT-LOCKING (3/8-16X0.875-IN)						
	6	1	5P-1075	6	WASHER-HARD (10.2X22.5X3-MM THK)						
C	7	1	7W-3031	2	BRACKET						
C	8	1	7W-3032	2	BRACKET						
C	9	1	1P-7115	4	GROMMET AS						
C	10	1	0S-1591	4	BOLT (3/8-16X1.5-IN)						
C	11	1	9S-8752	4	NUT-FULL (3/8-16-THD)						
C	12	1	3F-1417	4	WASHER (10.3X30.2X3-MM THK)						
C	13	1	5M-2894	4	WASHER-HARD (10.2X18.5X2.5-MM THK)						
C	14	1	9L-9132	4	WASHER (10.2X25.5X2.5-MM THK)						

C- CHANGE FROM PREVIOUS TYPE



GRAPHIC #1

<END>

g00908882

BASIC ENGINE

4P-8307 HOUSING GP-FLYWHEEL

S/N: ZBA1-UP

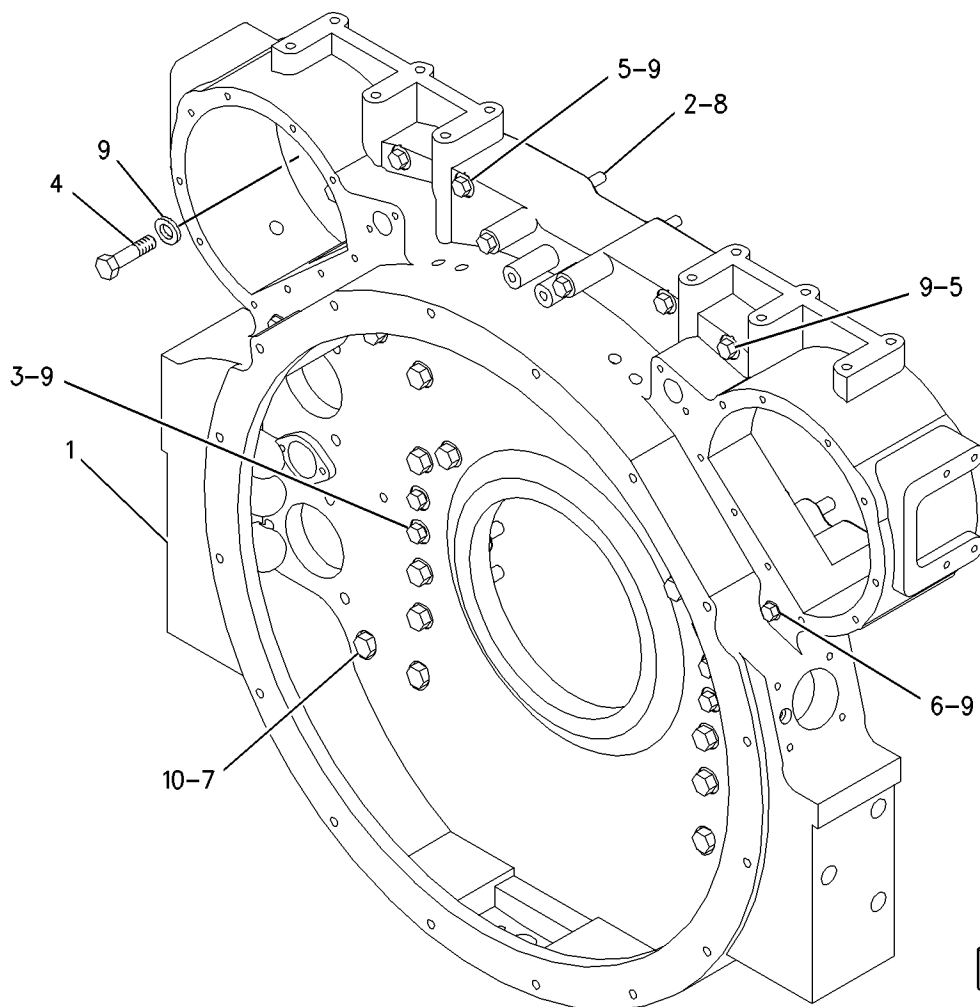
SMCS-1157

i02490914

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	1	1	222-9919	1	HOUSING-FLYWHEEL						
BC	2	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
	3	1	8S-9089	4	BOLT (1/2-13X4.5-IN)						
C	4	1	9X-8873	6	BOLT (1/2-13X2.25-IN)						
	5	1	9X-8875	4	BOLT (1/2-13X3.5-IN)						
	6	1	9S-1374	2	BOLT (1/2-13X8-IN)						
	7	1	1D-4590	16	BOLT (5/8-11X4.75-IN)						
B	8	1	1A-7669	2	BOLT (1/2-13X7-IN)						
C	9	1	5P-8245	16	WASHER-HARD (13.5X25.5X3-MM THK)						
C	10	1	5P-8247	16	WASHER-HARD (17X32X3.5-MM THK)						

B- USE AS REQUIRED

C- CHANGE FROM PREVIOUS TYPE



GRAPHIC #1

<END>

g00988958

BASIC ENGINE

7W-3724 HOUSING GP - FRONT

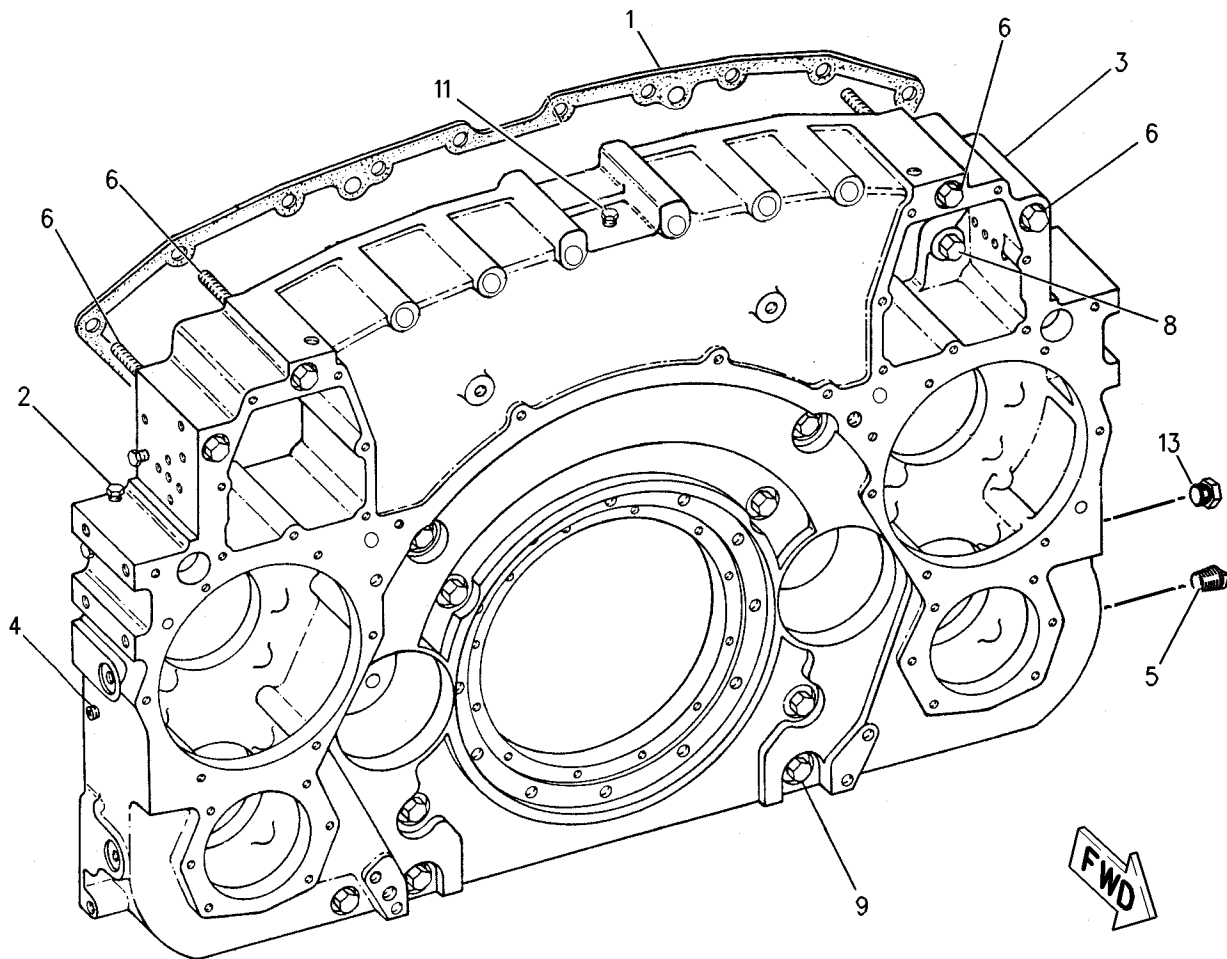
S/N: ZBA1-UP

SMCS-1151, 1162, 1206

i02220730

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7N-3049	1	GASKET						
	2	1	8T-6765	5	PLUG-PIPE						
	3	1	102-8634	1	HOUSING-ACCESSORY DRIVE						
	4	1	8T-6758	1	PLUG-PIPE						
	5	1	8T-6762	1	PLUG-PIPE						
	6	1	9H-8260	4	BOLT (1/2-13X6.25-IN)						
	8	1	0S-1587	4	BOLT (1/2-13X1.75-IN)						
	9	1	1D-4593	10	BOLT (5/8-11X5.5-IN)						
B	11	1	8T-6765	1	PLUG-PIPE						
B	13	1	8T-6765	1	PLUG-PIPE						

B-USE AS REQUIRED



GRAPHIC #1

<END>

g00899631

BASIC ENGINE

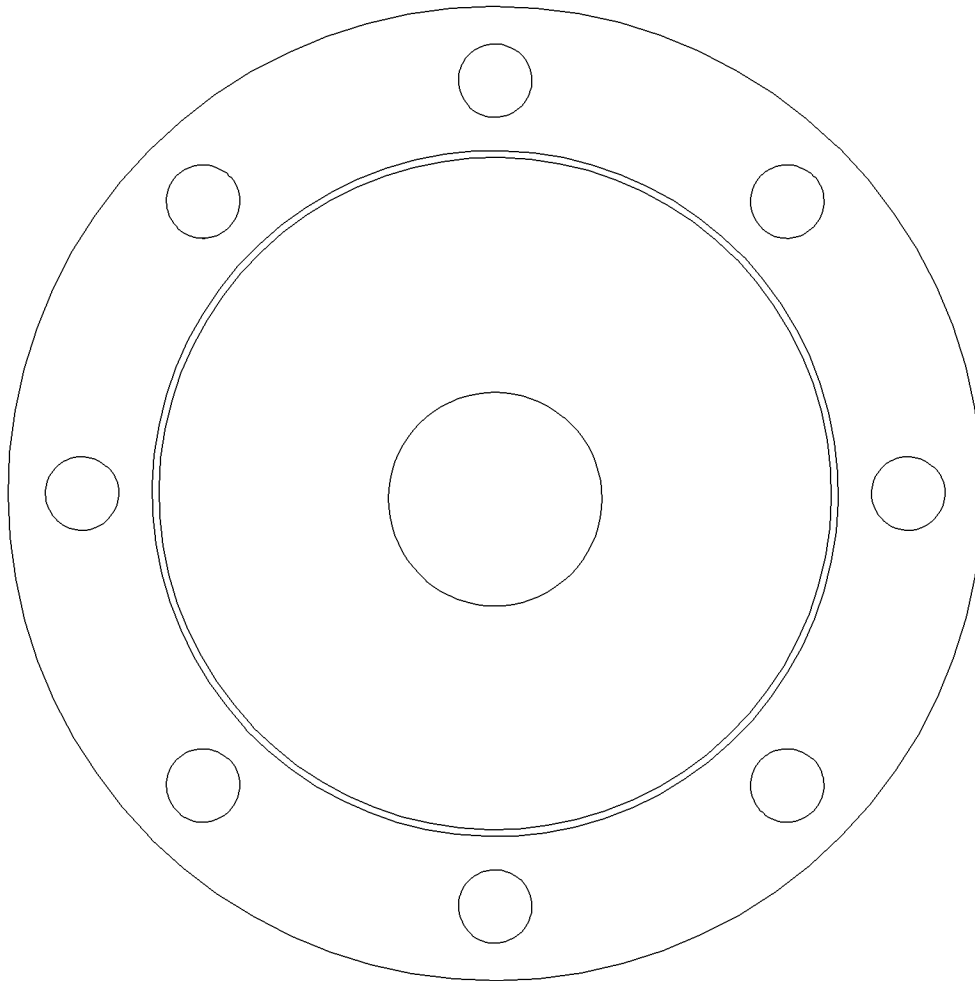
3N-5596 HUB-FLEXIBLE COUPLING

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-3252

i01212954

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
					(NO SERVICED PARTS)						



GRAPHIC #1

<END>

g00648379

BASIC ENGINE

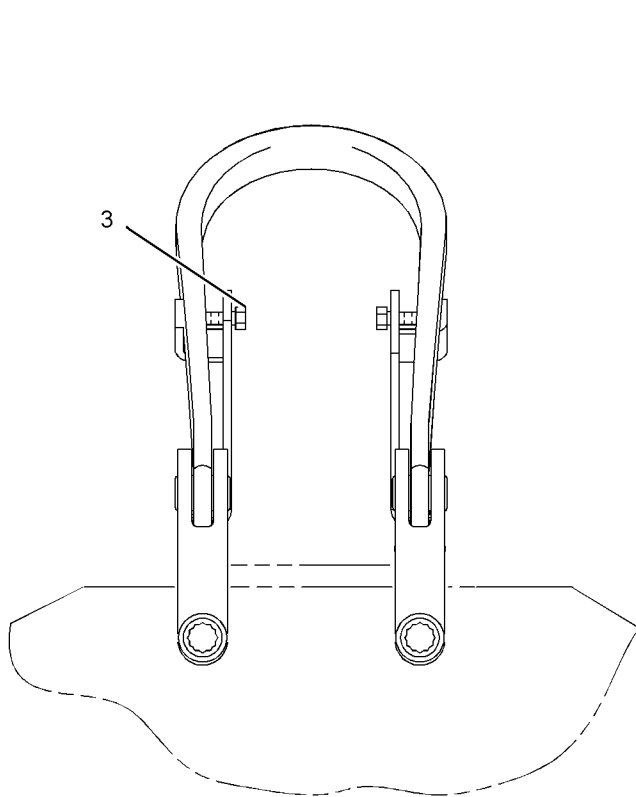
4W-5450 LIFTING GP-ENGINE

S/N: ZBA1-UP

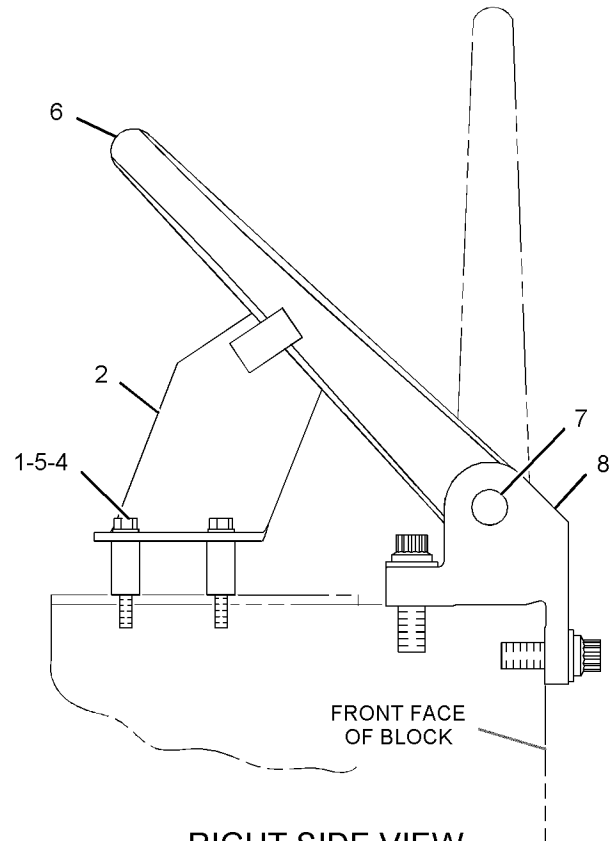
SMCS-1122

i02351556

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6W-6672	4	SPACER (10.5X20X38-MM THK)						
	2	1	4W-5887	2	BRACKET AS						
	3	1	5P-4255	2	BOLT-LOCKING (3/8-16X1-IN)						
	4	1	0T-0573	4	BOLT (3/8-16X2.75-IN)						
	5	1	5M-2894	4	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	6	1	7N-2326	2	EYE-LIFTING						
	7	1	7N-2328	4	DOWEL						
	8	1	155-0726	2	BRACKET AS						
					(EACH INCLUDES)						
		1	5P-8248	4	WASHER-HARD (20X36.5X3.5-MM THK)						
		1	5P-8291	2	BOLT (3/4-16X2-IN)						
		1	6V-9995	2	BOLT-12 POINT HEAD (3/4-16X2.5-IN)						



REAR VIEW



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g01193884

BASIC ENGINE

7E-4836 MOUNTING GP-ALTERNATOR

S/N: ZBA1-UP

AN ATTACHMENT

SMCS-1154, 1405

i02841563

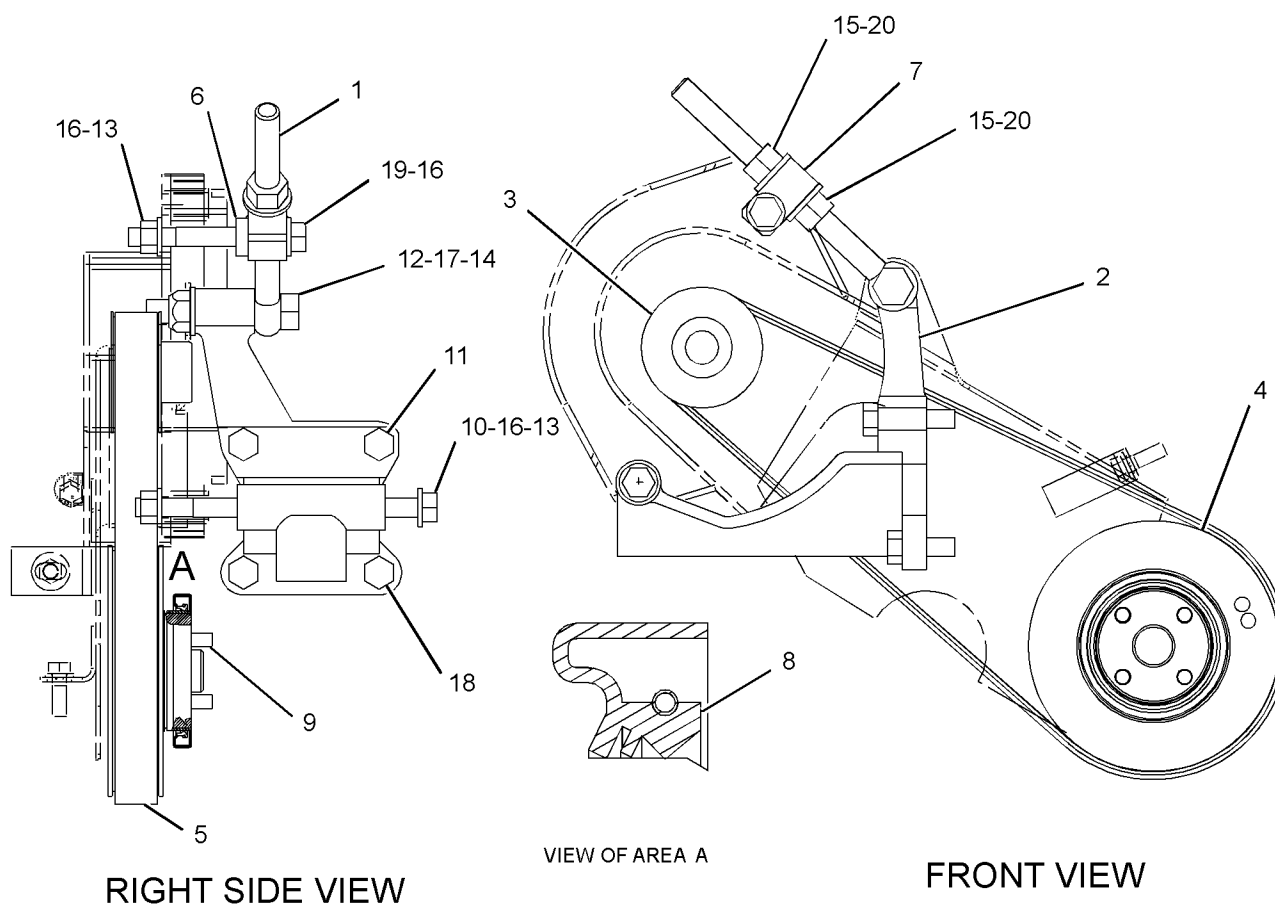
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	252-6498	1	ROD						
	2	1	4P-5211	1	SUPPORT-ALTERNATOR						
	3	1	7E-4839	1	PULLEY						
C	4	1	300-8570	1	PULLEY AS						
		1	300-8567	1	SLEEVE						
		1	300-8569	1	PULLEY						
	5	1	141-7116	1	BELT-SERPENTINE						
	6	1	7N-2597	1	SPACER (13.5X25.4X8.08-MM THK)						
	7	1	252-6464	1	BLOCK						
	8	1	235-2484	1	SEAL-LIP TYPE						
	9	1	0S-1590	4	BOLT (3/8-16X2-IN)						
	10	1	1A-0168	1	BOLT (1/2-13X7.5-IN)						
	11	1	1A-1460	2	BOLT (1/2-13X2-IN)						
	12	1	1D-4586	1	BOLT (5/8-11X3.5-IN)						
	13	1	1F-7958	2	NUT-FULL (1/2-13-THD)						
	14	1	3K-2889	1	LOCKNUT (5/8-11-THD)						
	15	1	2J-3506	2	NUT-FULL (3/4-10-THD)						
	16	1	5P-8245	4	WASHER-HARD (13.5X25.5X3-MM THK)						
	17	1	5P-8247	1	WASHER-HARD (17X32X3.5-MM THK)						
	18	1	7B-3235	2	BOLT (1/2-13X1.375-IN)						
	19	1	7D-9766	1	BOLT (1/2-13X4.25-IN)						
	20	1	5P-8248	2	WASHER-HARD (20X36.5X3.5-MM THK)						

C- CHANGE FROM PREVIOUS TYPE

BASIC ENGINE

7E-4836 MOUNTING GP-ALTERNATOR (contd.)

i02841563



GRAPHIC #1

<END>

g01369433

BASIC ENGINE

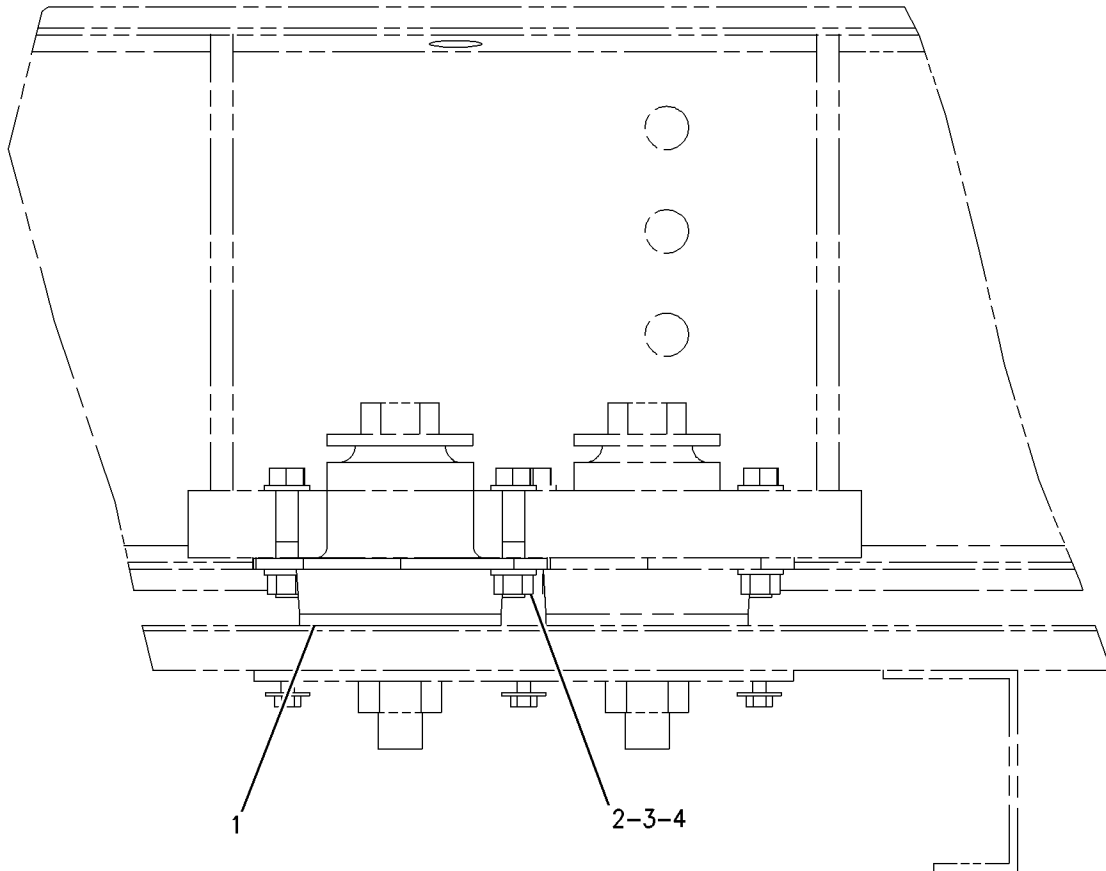
155 - 1390 MOUNTING GP - ENGINE

S/N: ZBA1-UP
FOR USE WITH POWER MODULES
AN ATTACHMENT

SMCS-1152, 1153, 1154

i01514107

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	114-0254	1	ISOLATOR						
	2	1	6V-8188	2	NUT (1/2-13-THD)						
	3	1	7X-0325	2	BOLT (1/2-13X2.5-IN)						
	4	1	8T-4223	4	WASHER-HARD (13.5X25.5X3-MM THK)						



GRAPHIC #1

<END>

g00785698

BASIC ENGINE

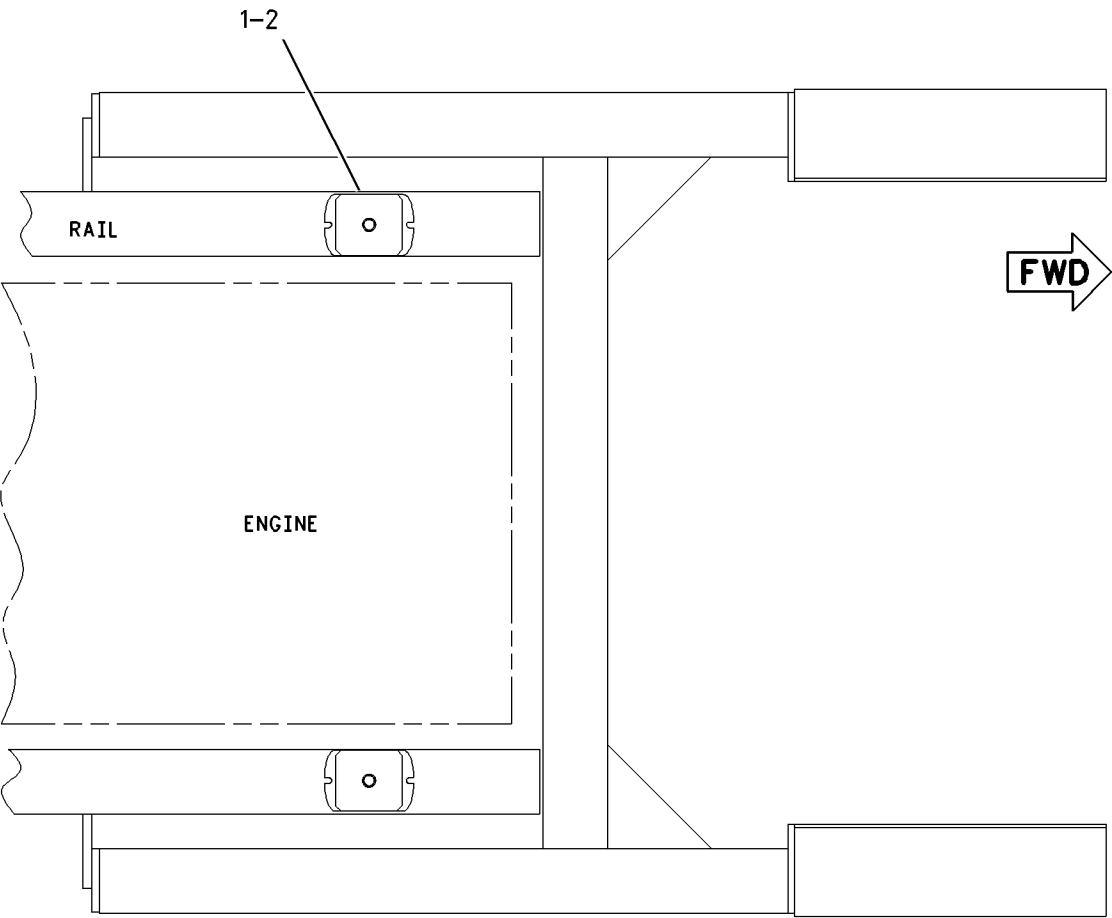
5N-8877 MOUNTING GP-ENGINE FLEXIBLE

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1152

i02220703

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	153-3864	8	MOUNT AS						
	2	1	5P-7197	8	WASHER (17X45X6-MM THK)						



TOP VIEW

GRAPHIC #1

<END>

g00899259

BASIC ENGINE

7C-4711 PAN GP-OIL

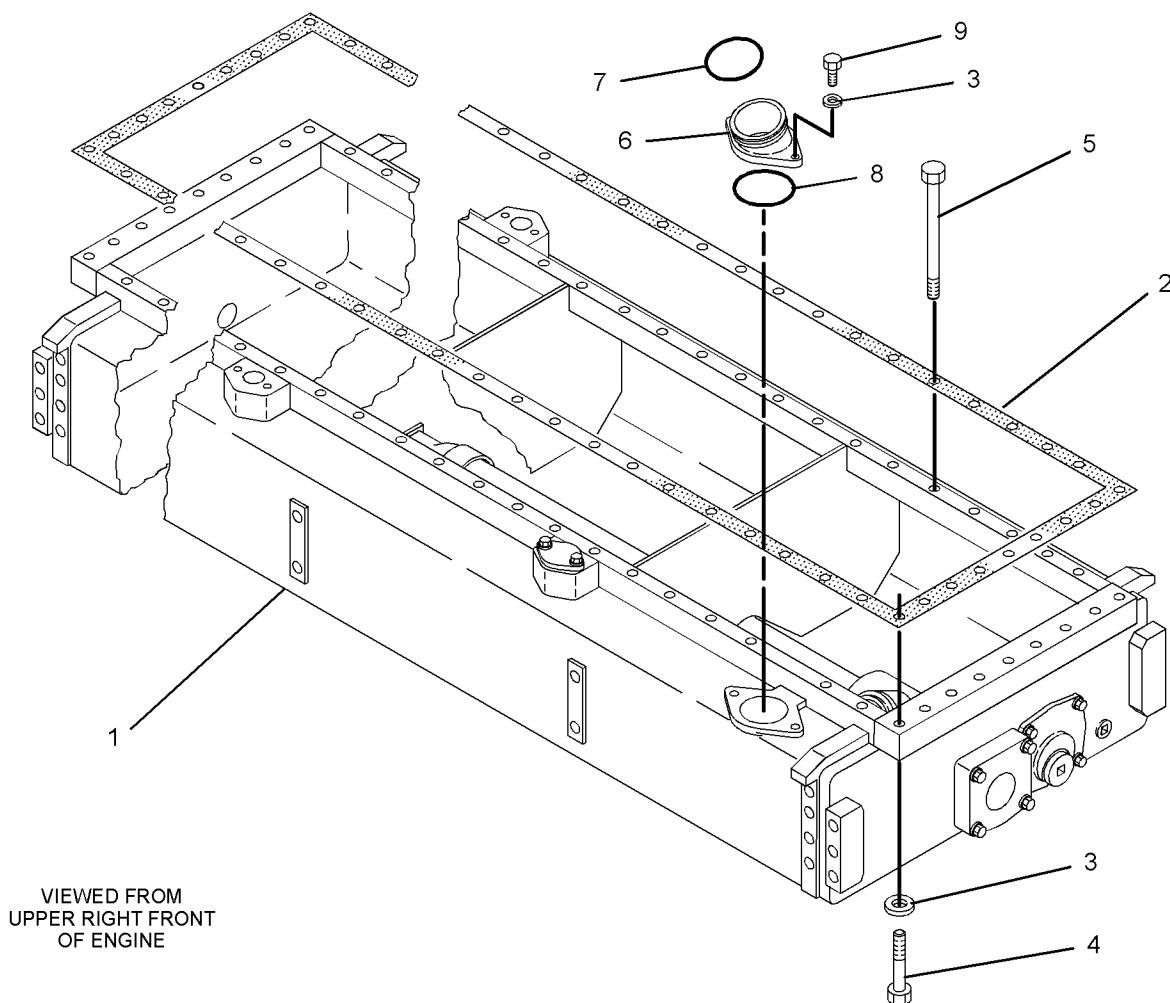
S/N: ZBA1-UP

SMCS-1302

i02327570

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	9Y-3082	1	PAN GP-OIL						143
	2	1	7E-2632	1	GASKET-OIL PAN						
	3	1	5M-2894	20	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	4	1	0L-2070	18	BOLT (3/8-16X2.25-IN)						
	5	1	0T-0065	50	BOLT (3/8-16X3.5-IN)						
	6	1	7W-0129	1	FLANGE						
	7	1	6V-5101	1	SEAL-O-RING						
	8	1	3P-0654	1	SEAL-O-RING						
	9	1	0S-1588	2	BOLT (3/8-16X1.25-IN)						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01162640

BASIC ENGINE

7C-7178 PAN GP-OIL-DEEP SUMP

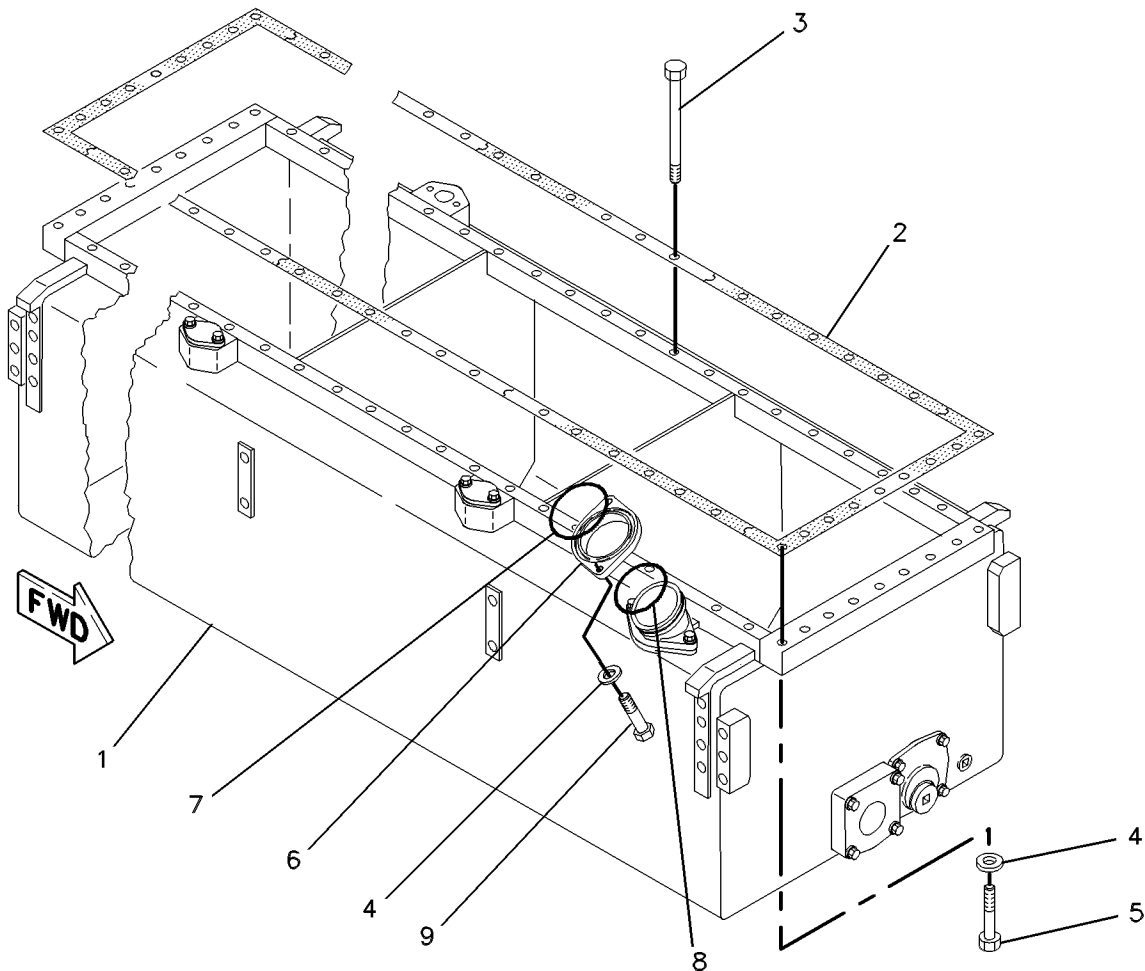
S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1302

i02357235

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	9Y-3085	1	PAN GP-OIL (DEEP SUMP)						145
	2	1	7E-2632	1	GASKET-OIL PAN						
	3	1	0T-0065	50	BOLT (3/8-16X3.5-IN)						
	4	1	5M-2894	20	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	5	1	0L-2070	18	BOLT (3/8-16X2.25-IN)						
	6	1	7W-0129	1	FLANGE						
	7	1	6V-5101	1	SEAL-O-RING						
	8	1	3P-0654	1	SEAL-O-RING						
	9	1	0S-1588	2	BOLT (3/8-16X1.25-IN)						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00618459

BASIC ENGINE

9Y-3082 PAN GP-OIL

S/N: ZBA1-UP

PART OF 7C-4711 PAN GP-OIL

SMCS-1302

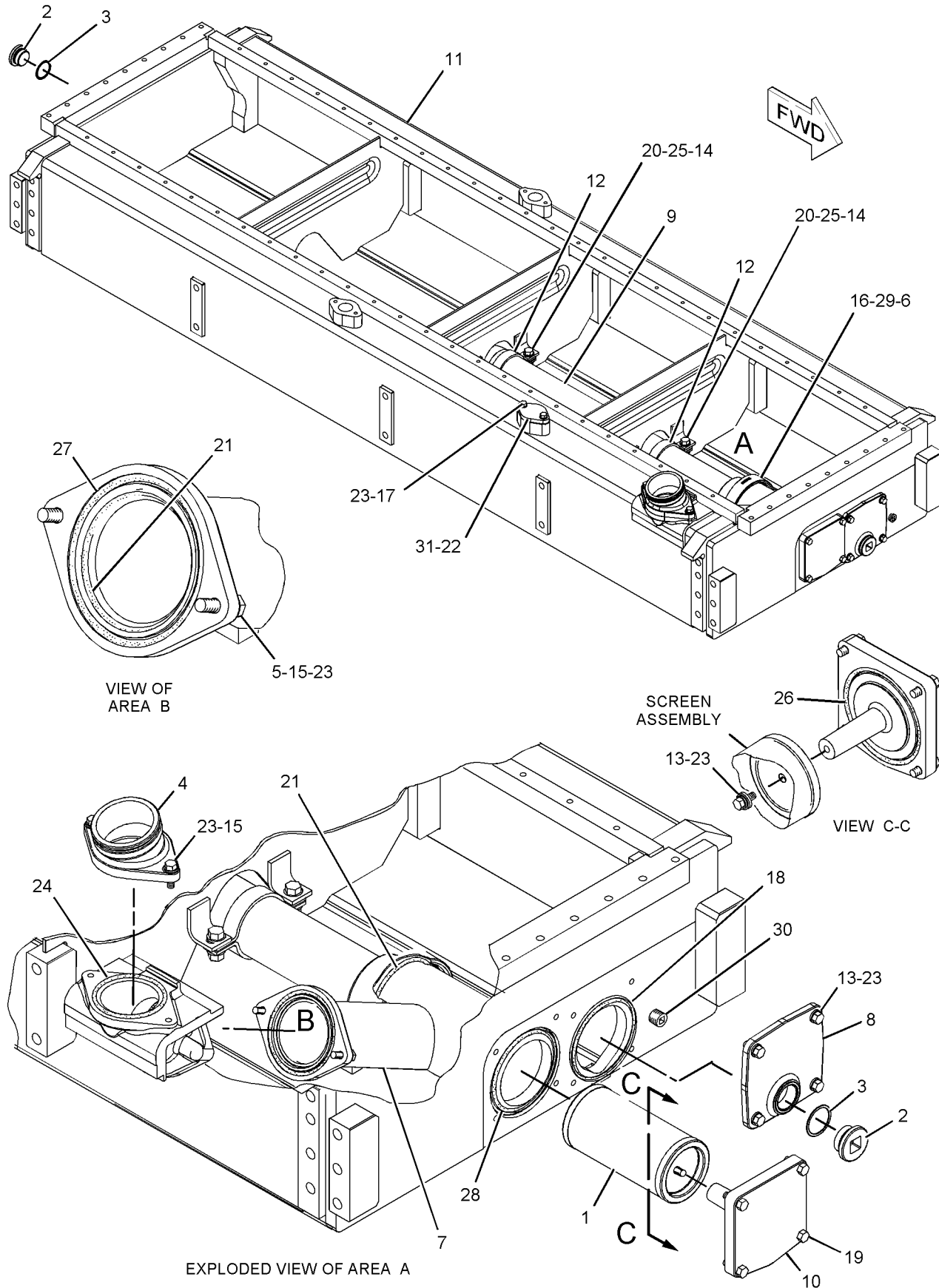
i02833477

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	1	1	1W-1564	1	SCREEN AS-SUCTION (OIL PAN)						
	2	1	4B-2363	2	PLUG-OIL DRAIN (OIL PAN)						
	3	1	6F-4868	2	GASKET						
	4	1	7C-4715	1	CONNECTOR						
	5	1	7W-0129	1	FLANGE						
	6	1	111-2081	1	HOUSING-OIL						
	7	1	114-2414	1	TUBE AS						
	8	1	149-9298	1	COVER						
C	9	1	228-8925	1	TUBE-SUCTION						
C	10	1	228-8926	1	ADAPTER						
C	11	1	228-8928	1	PAN AS-OIL						
C	12	1	231-5867	4	CLAMP						
C	13	1	0L-1351	5	BOLT (3/8-16X0.875-IN)						
C	14	1	0S-1585	4	BOLT (1/2-13X1.5-IN)						
	15	1	0S-1588	4	BOLT (3/8-16X1.25-IN)						
	16	1	0S-1590	2	BOLT (3/8-16X2-IN)						
	17	1	0S-1594	2	BOLT (3/8-16X1-IN)						
	18	1	125-9794	1	SEAL-O-RING						
C	19	1	1A-2029	4	BOLT (3/8-16X1.125-IN)						
C	20	1	1K-6872	4	LOCKNUT (1/2-13-THD)						
C	21	1	3P-0654	2	SEAL-O-RING						
	22	1	4B-3140	1	COVER						
C	23	1	5M-2894	11	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	24	1	5P-7818	1	SEAL-O-RING						
C	25	1	5P-8245	8	WASHER-HARD (13.5X25.5X3-MM THK)						
	26	1	5P-8872	1	SEAL-O-RING						
	27	1	6V-5101	1	SEAL-O-RING						
	28	1	7X-1547	2	SEAL-O-RING						
	29	1	8M-9024	2	WASHER-HARD (10.2X22.5X5-MM THK)						
	30	1	8T-6762	1	PLUG-PIPE						
	31	1	9L-1480	1	GASKET						
C- CHANGE FROM PREVIOUS TYPE											

BASIC ENGINE

9Y-3082 PAN GP-OIL (contd.)

i02833477



GRAPHIC #1

<END>

g01040755

BASIC ENGINE

9Y-3085 PAN GP-OIL-DEEP SUMP

S/N: ZBA1-UP

PART OF 7C-7178 PAN GP-OIL
AN ATTACHMENT

SMCS-1302

i02743046

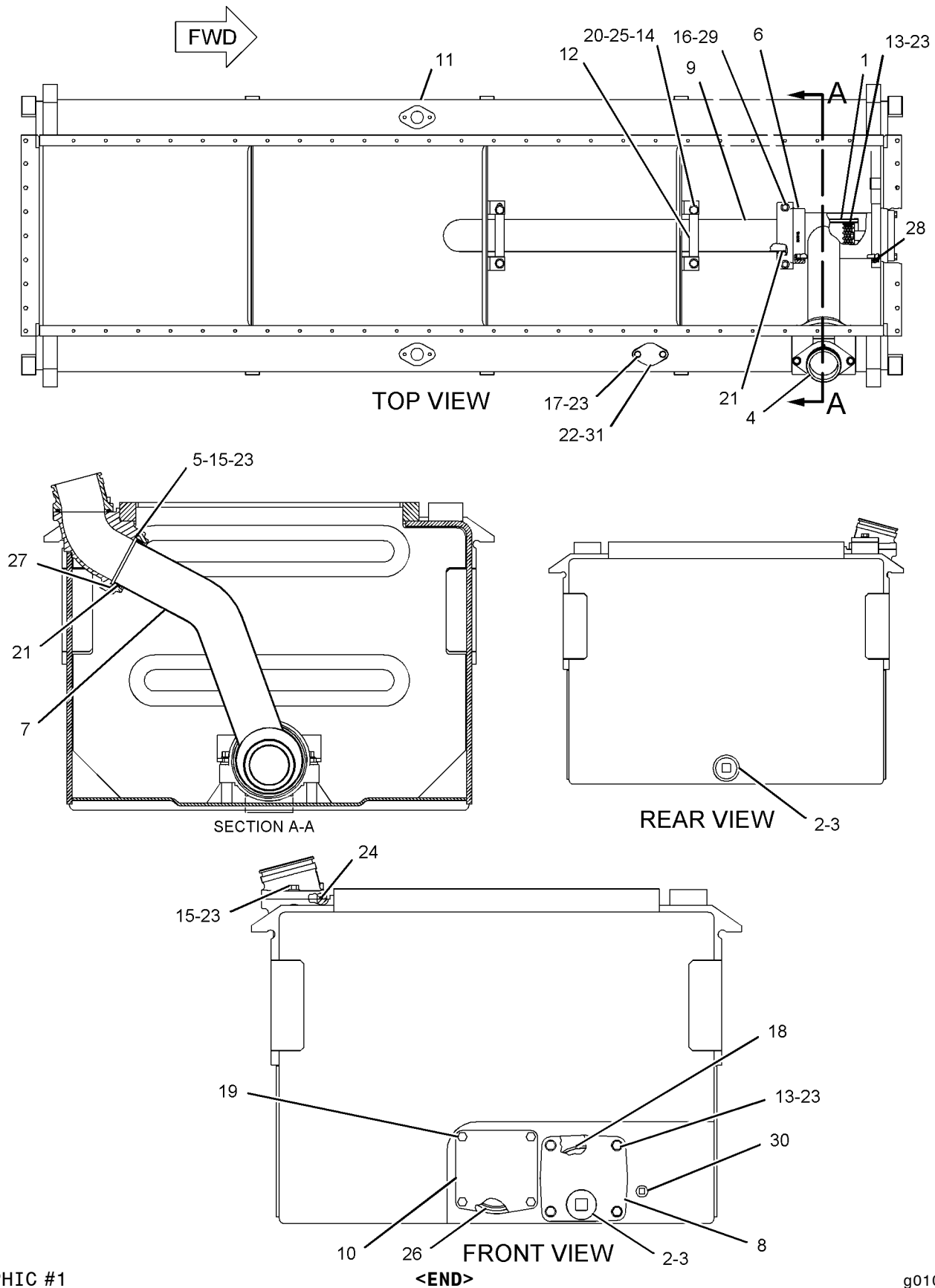
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	1	1	1W-1564	1	SCREEN AS-SUCTION (OIL PAN)						
	2	1	4B-2363	2	PLUG-OIL DRAIN (PAN)						
	3	1	6F-4868	2	GASKET						
	4	1	7C-4715	1	CONNECTOR						
	5	1	7W-0129	1	FLANGE						
	6	1	111-2081	1	HOUSING-OIL						
	7	1	114-2413	1	TUBE AS						
	8	1	149-9298	1	COVER						
C	9	1	228-8925	1	TUBE-SUCTION						
C	10	1	228-8926	1	ADAPTER						
C	11	1	229-8391	1	PAN AS-OIL						
C	12	1	231-5867	4	CLAMP						
C	13	1	0L-1351	5	BOLT (3/8-16X0.875-IN)						
C	14	1	0S-1585	4	BOLT (1/2-13X1.5-IN)						
	15	1	0S-1588	4	BOLT (3/8-16X1.25-IN)						
	16	1	0S-1590	2	BOLT (3/8-16X2-IN)						
	17	1	0S-1594	2	BOLT (3/8-16X1-IN)						
	18	1	125-9794	1	SEAL-O-RING						
C	19	1	1A-2029	4	BOLT (3/8-16X1.125-IN)						
C	20	1	1K-6872	4	LOCKNUT (1/2-13-THD)						
C	21	1	3P-0654	2	SEAL-O-RING						
	22	1	4B-3140	1	COVER						
C	23	1	5M-2894	11	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	24	1	5P-7818	1	SEAL-O-RING						
C	25	1	5P-8245	8	WASHER-HARD (13.5X25.5X3-MM THK)						
	26	1	5P-8872	1	SEAL-O-RING						
	27	1	6V-5101	1	SEAL-O-RING						
	28	1	7X-1547	2	SEAL-O-RING						
	29	1	8M-9024	2	WASHER-HARD (10.2X22.5X5-MM THK)						
	30	1	8T-6762	1	PLUG-PIPE						
	31	1	9L-1480	1	GASKET						

C- CHANGE FROM PREVIOUS TYPE

BASIC ENGINE

9Y-3085 PAN GP-OIL (contd.)

i02743046



GRAPHIC #1

g01025140

BASIC ENGINE

6I-4610 PISTON & ROD GP

S/N: ZBA1-UP

SMCS-1225

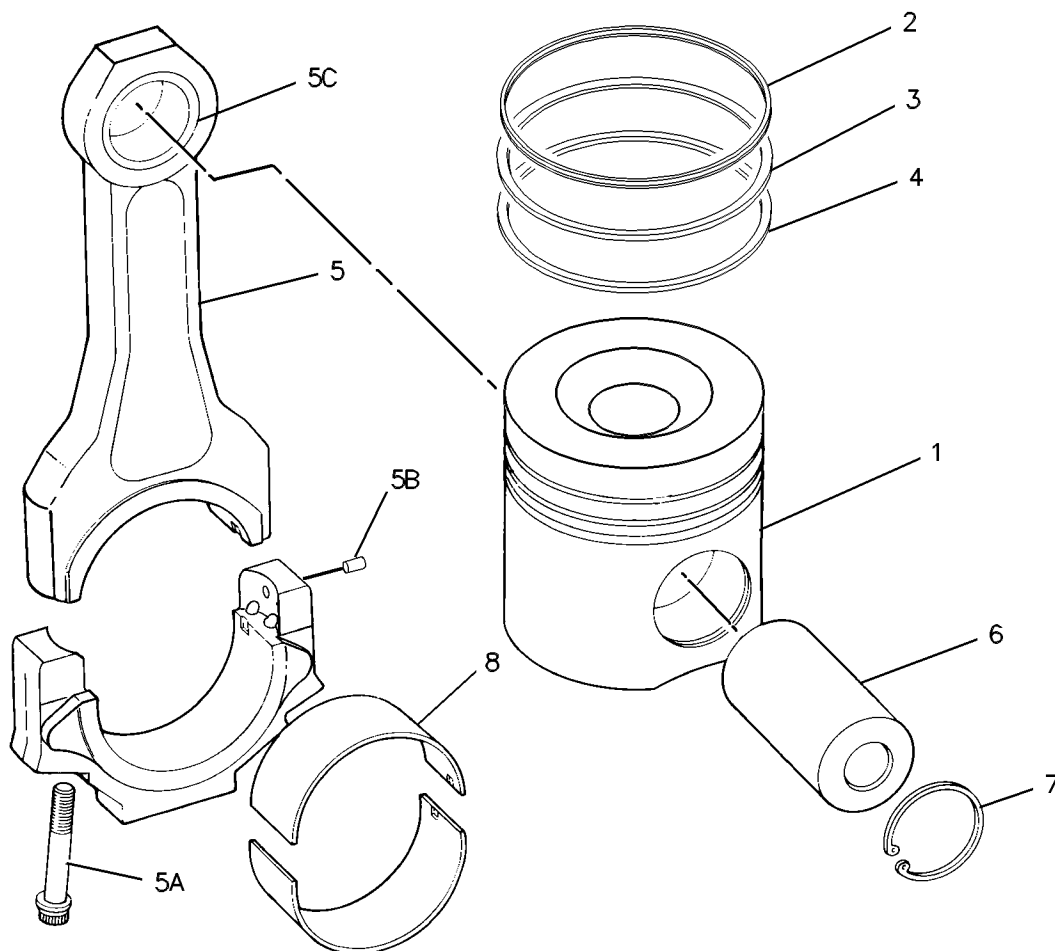
i02834516

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
R	1	1	6I-4609	1	BODY AS-PISTON						
	2	1	7E-7581	1	RING-PISTON (TOP)						
	3	1	8N-1234	1	RING (INTERMEDIATE)						
	4	1	7W-2221	1	RING (OIL)						
R	5	1	144-0725	1	ROD AS						
	5A	1	7N-2405	4	BOLT-CONNECTING ROD						
	5B	1	7N-2043	1	DOWEL						
	5C	1	118-1655	1	BEARING-SLEEVE						
	6	1	138-8506	1	PIN-PISTON						
	7	1	8N-7296	2	RETAINER-PIN						
	8	1	107-7330	1	BEARING-CONNECTING ROD (STANDARD)						
	AJ	1	107-7331		BEARING-CONNECTING ROD (0.63-MM US ID)						
AJ	1	107-7332		BEARING-CONNECTING ROD (1.27-MM US ID)							
AJ	1	107-7333		BEARING-CONNECTING ROD (0.25-MM OS OD)							
AJ	1	107-7334		BEARING-CONNECTING ROD (0.63-MM US ID, 0.25-MM OS OD)							
AJ	1	107-7335		BEARING-CONNECTING ROD (1.27-MM US ID, 0.25-MM OS OD)							

A - NOT PART OF THIS GROUP

J - INCLUDES A COMPLETE SET OF BEARINGS FOR ONE PISTON

R - REMFG PART MAY BE AVAILABLE



GRAPHIC #1

<END>

g00521481

BASIC ENGINE

102-2256 PISTON & ROD GP

S/N: ZBA1-UP

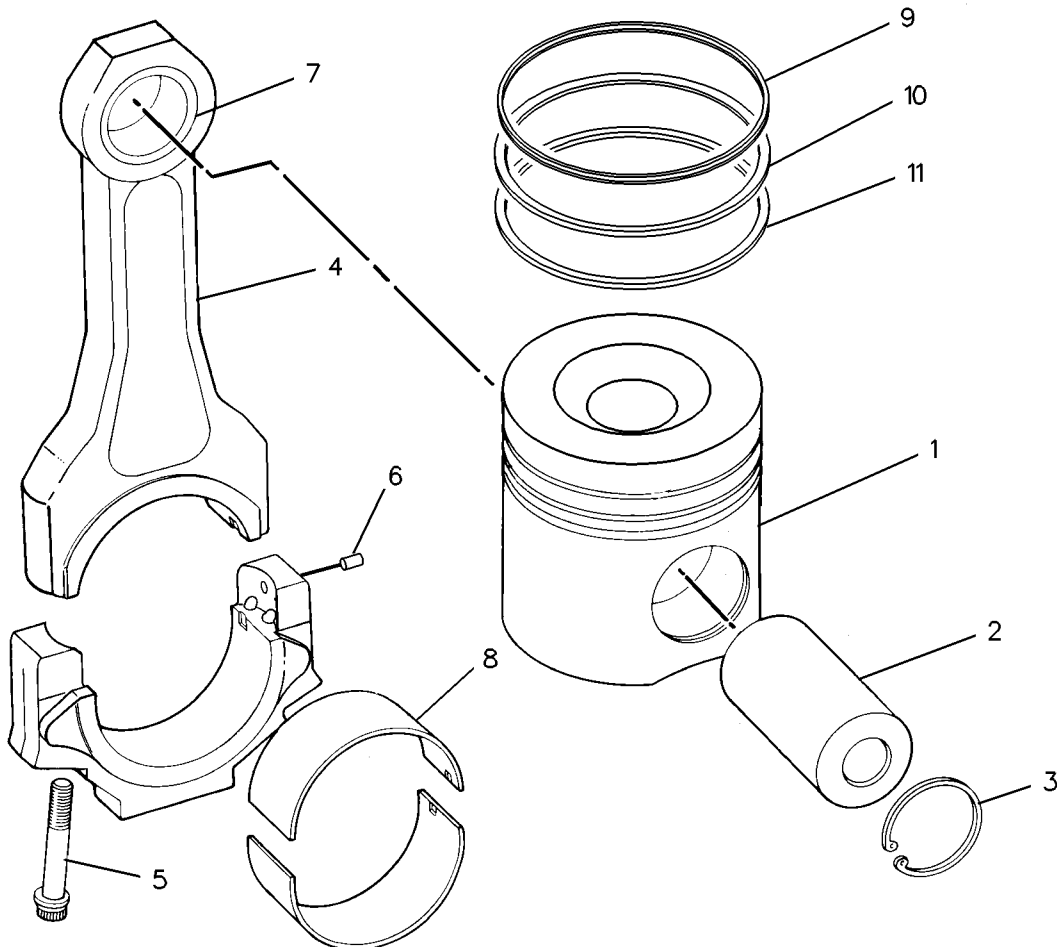
SMCS-1225

i02834520

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
R	1	1	101-4140	1	BODY AS-PISTON						
	2	1	138-8506	1	PIN-PISTON						
	3	1	8N-7296	2	RETAINER-PIN						
R	4	1	144-0725	1	ROD AS						
	5	1	7N-2405	4	BOLT-CONNECTING ROD						
	6	1	7N-2043	1	DOWEL						
	7	1	118-1655	1	BEARING-SLEEVE						
	8	1	107-7330	1	BEARING-CONNECTING ROD (STANDARD)						
A		1	107-7331		BEARING-CONNECTING ROD (0.63-MM US ID)						
A		1	107-7332		BEARING-CONNECTING ROD (1.27-MM US ID)						
A		1	107-7333		BEARING-CONNECTING ROD (0.25-MM OS OD)						
A		1	107-7334		BEARING-CONNECTING ROD (0.63-MM US ID, 0.25-MM OS OD)						
A		1	107-7335		BEARING-CONNECTING ROD (1.27-MM US ID, 0.25-MM OS OD)						
	9	1	7E-7581	1	RING-PISTON (TOP)						
	10	1	8N-1234	1	RING (INTERMEDIATE)						
	11	1	7W-2221	1	RING (OIL)						

A- NOT PART OF THIS GROUP

R- REMFG PART MAY BE AVAILABLE



GRAPHIC #1

<END>

g00206543

BASIC ENGINE

126-9496 PISTON & ROD GP

S/N: ZBA1-UP

11.0:1 RATIO

SMCS-1225

i02834523

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	197-3765	1	BODY AS-PISTON						
	2	1	138-8506	1	PIN-PISTON						
	3	1	8N-7296	2	RETAINER-PIN						
R	4	1	144-0725	1	ROD AS						
	5	1	7N-2405	4	BOLT-CONNECTING ROD						
	6	1	7N-2043	1	DOWEL						
	7	1	118-1655	1	BEARING-SLEEVE						
	8	1	107-7330	1	BEARING-CONNECTING ROD (STANDARD)						
AB		1	107-7331		BEARING-CONNECTING ROD (0.63-MM US ID)						
AB		1	107-7332		BEARING-CONNECTING ROD (1.27-MM US ID)						
AB		1	107-7333		BEARING-CONNECTING ROD (0.25-MM OS OD)						
AB		1	107-7334		BEARING-CONNECTING ROD (0.63-MM US ID, 0.25-MM OS OD)						
AB		1	107-7335		BEARING-CONNECTING ROD (1.27-MM US ID, 0.25-MM OS OD)						
	9	1	7E-7581	1	RING-PISTON (TOP)						
	10	1	8N-1234	1	RING (INTERMEDIATE)						
	11	1	7W-2221	1	RING (OIL)						

A- NOT PART OF THIS GROUP

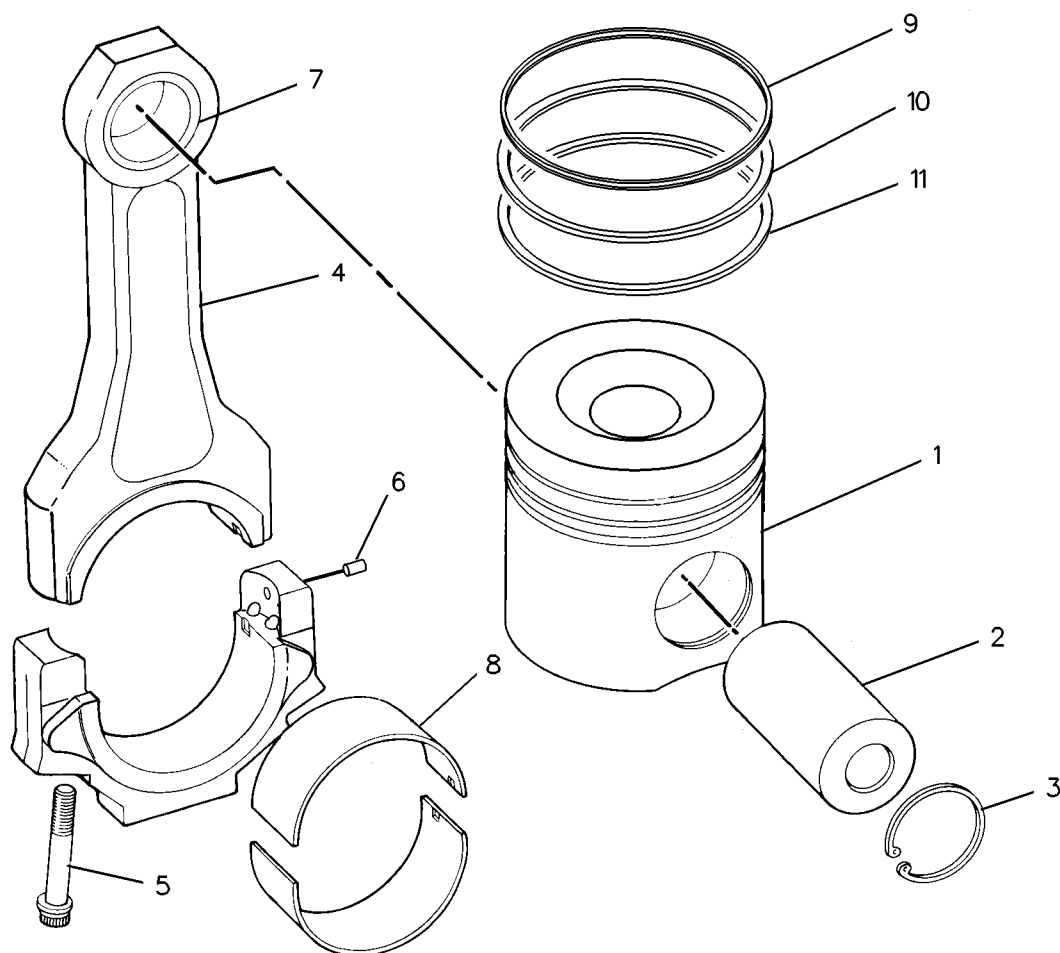
B- USE AS REQUIRED

R- REMFG PART MAY BE AVAILABLE

BASIC ENGINE

126-9496 PISTON & ROD GP (contd.)

i02834523



GRAPHIC #1

<END>

g00206543

BASIC ENGINE

133-9376 PISTON & ROD GP

S/N: ZBA1-UP

SMCS-1225

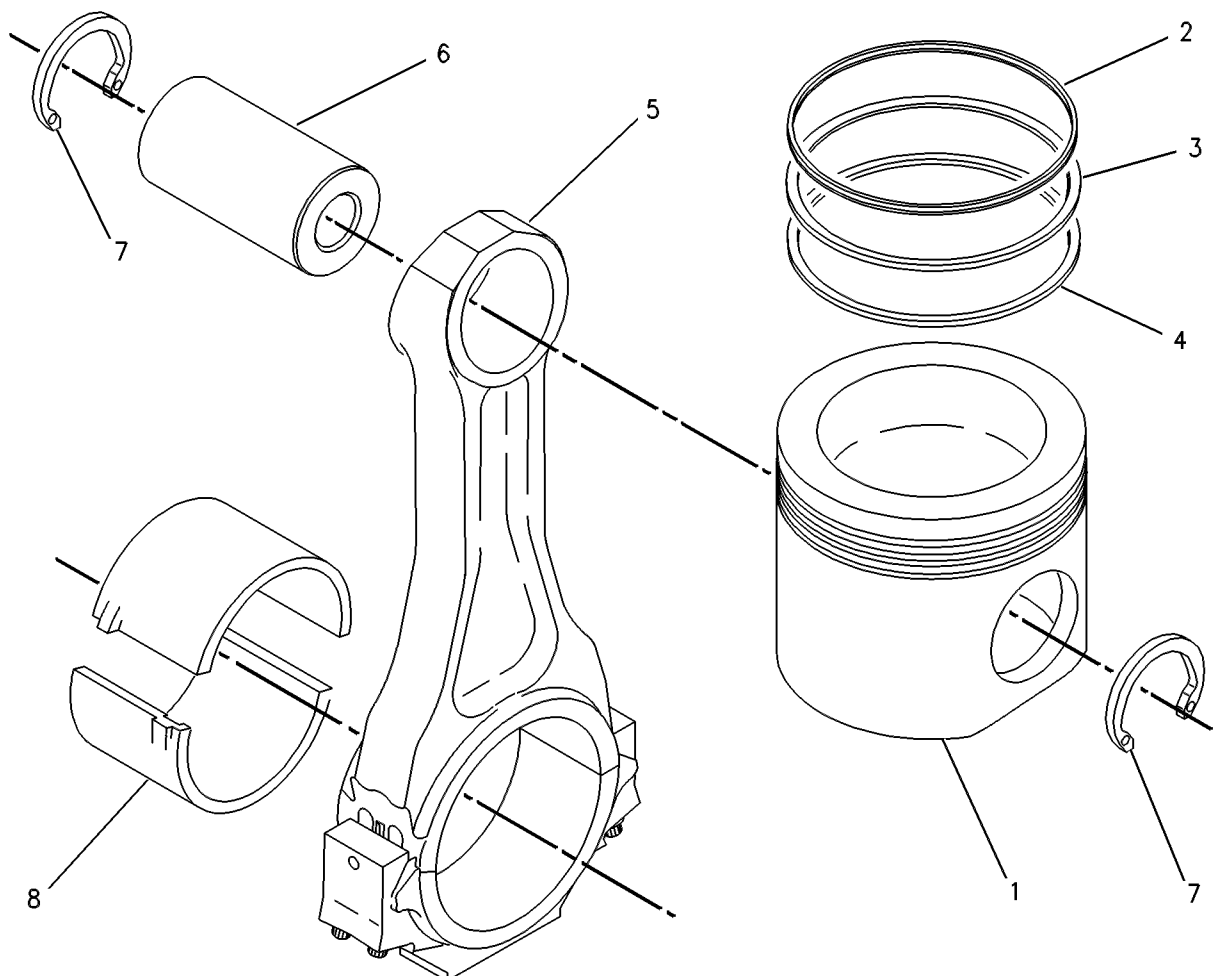
i02834525

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	133-9375	1	BODY AS-PISTON						
	2	1	7E-7581	1	RING-PISTON (TOP)						
	3	1	8N-1234	1	RING (INTERMEDIATE)						
	4	1	7W-2221	1	RING (OIL)						
R	5	1	144-0725	1	ROD AS						
		1	7N-2043	1	DOWEL						
		1	7N-2405	4	BOLT-CONNECTING ROD						
		1	118-1655	1	BEARING-SLEEVE						
	6	1	138-8506	1	PIN-PISTON						
	7	1	8N-7296	2	RETAINER-PIN						
	8	1	107-7330	1	BEARING-CONNECTING ROD (STANDARD)						
AJ		1	107-7331		BEARING-CONNECTING ROD (0.63-MM US ID)						
AJ		1	107-7332		BEARING-CONNECTING ROD (1.27-MM US ID)						
AJ		1	107-7333		BEARING-CONNECTING ROD (0.25-MM OS OD)						
AJ		1	107-7334		BEARING-CONNECTING ROD (0.63-MM US ID, 0.25-MM OS OD)						
AJ		1	107-7335		BEARING-CONNECTING ROD (1.27-MM US ID, 0.25-MM OS OD)						

A - NOT PART OF THIS GROUP

J - INCLUDES A COMPLETE SET OF BEARINGS FOR ONE PISTON

R - REMFG PART MAY BE AVAILABLE



GRAPHIC #1

<END>

g00261547

BASIC ENGINE

134-3803 PISTON & ROD GP

S/N: ZBA1-UP

12.0:1 RATIO

SMCS-1225

i02834526

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	212-7596	1	BODY AS-PISTON						
	2	1	7E-7581	1	RING-PISTON (TOP)						
	3	1	8N-1234	1	RING (INTERMEDIATE)						
	4	1	7W-2221	1	RING (OIL)						
R	5	1	144-0725	1	ROD AS						
	5A	1	7N-2405	4	BOLT-CONNECTING ROD						
	5B	1	7N-2043	1	DOWEL						
	5C	1	118-1655	1	BEARING-SLEEVE						
	6	1	138-8506	1	PIN-PISTON						
	7	1	8N-7296	2	RETAINER-PIN						
	8	1	107-7330	1	BEARING-CONNECTING ROD (STANDARD)						
AJ		1	107-7331		BEARING-CONNECTING ROD (0.63-MM US ID)						
AJ		1	107-7332		BEARING-CONNECTING ROD (1.27-MM US ID)						
AJ		1	107-7333		BEARING-CONNECTING ROD (0.25-MM OS OD)						
AJ		1	107-7334		BEARING-CONNECTING ROD (0.63-MM US ID, 0.25-MM OS OD)						
AJ		1	107-7335		BEARING-CONNECTING ROD (1.27-MM US ID, 0.25-MM OS OD)						

A- NOT PART OF THIS GROUP

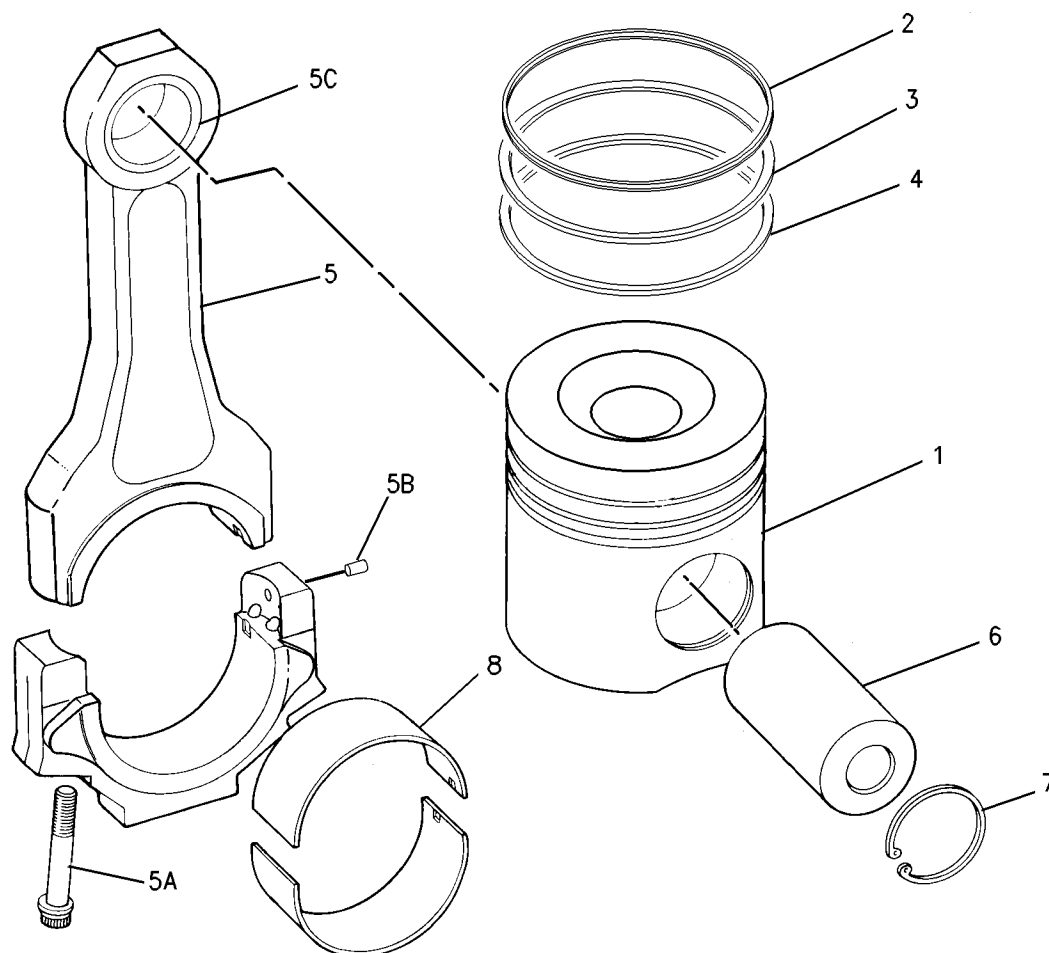
J- INCLUDES A COMPLETE SET OF BEARINGS FOR ONE PISTON

R- REMFG PART MAY BE AVAILABLE

BASIC ENGINE

134-3803 PISTON & ROD GP (contd.)

i02834526



GRAPHIC #1

<END>

g00886066

BASIC ENGINE

197-4705 PISTON & ROD GP

S/N: ZBA1-UP

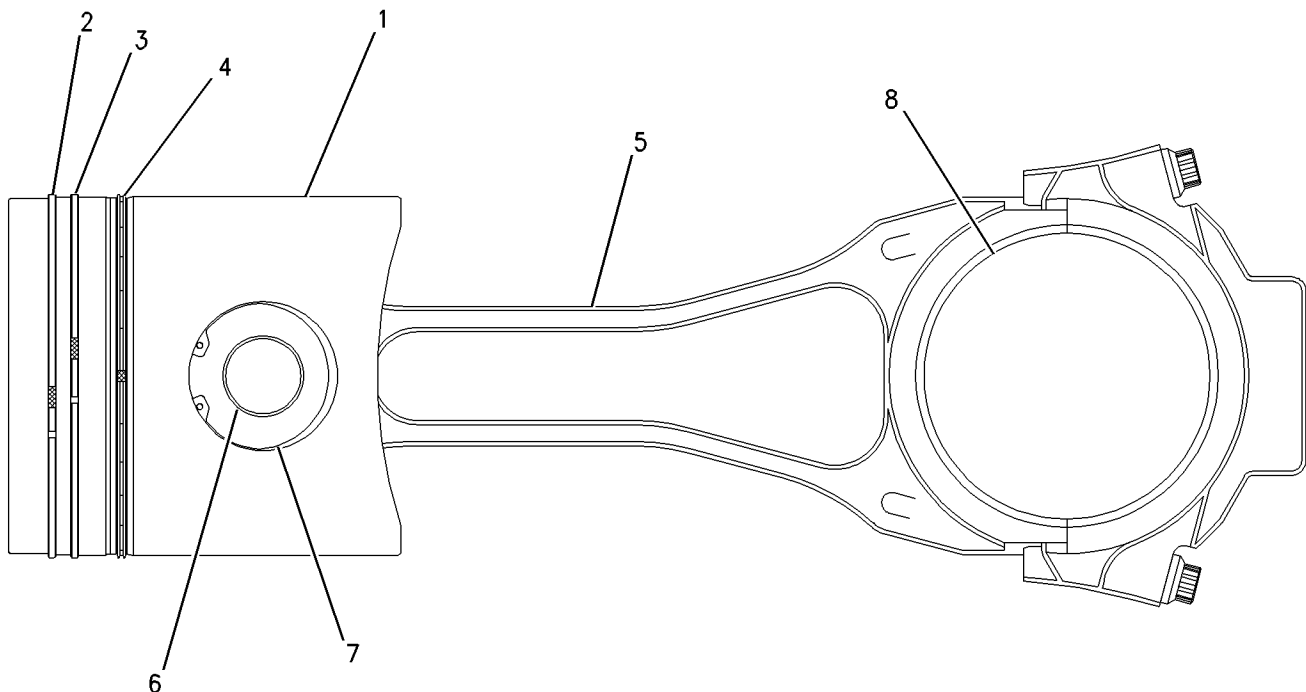
SMCS-1225

i02235900

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	197-3765	1	BODY AS-PISTON						
	2	1	7E-7581	1	RING-PISTON (TOP)						
	3	1	8N-1234	1	RING (INTERMEDIATE)						
	4	1	7W-2221	1	RING (OIL)						
R	5	1	144-0725	1	ROD AS						
		1	7N-2043	1	DOWEL						
		1	7N-2405	4	BOLT-CONNECTING ROD						
		1	118-1655	1	BEARING-SLEEVE						
	6	1	138-8506	1	PIN-PISTON						
	7	1	8N-7296	2	RETAINER-PIN						
	8	1	107-7330	1	BEARING-CONNECTING ROD (STANDARD)						
A		1	107-7331	1	BEARING-CONNECTING ROD (0.63-MM US ID)						
A		1	107-7332	1	BEARING-CONNECTING ROD (1.27-MM US ID)						
A		1	107-7333	1	BEARING-CONNECTING ROD (0.25-MM OS OD)						
A		1	107-7334	1	BEARING-CONNECTING ROD (0.63-MM US ID, 0.25-MM OS OD)						
A		1	107-7335	1	BEARING-CONNECTING ROD (1.27-MM US ID, 0.25-MM OS OD)						

A - NOT PART OF THIS GROUP

R - REMFG PART MAY BE AVAILABLE



GRAPHIC #1

<END>

g00754640

BASIC ENGINE

7N-4106 PULLEY AS-CRANKSHAFT

S/N: ZBA1-UP

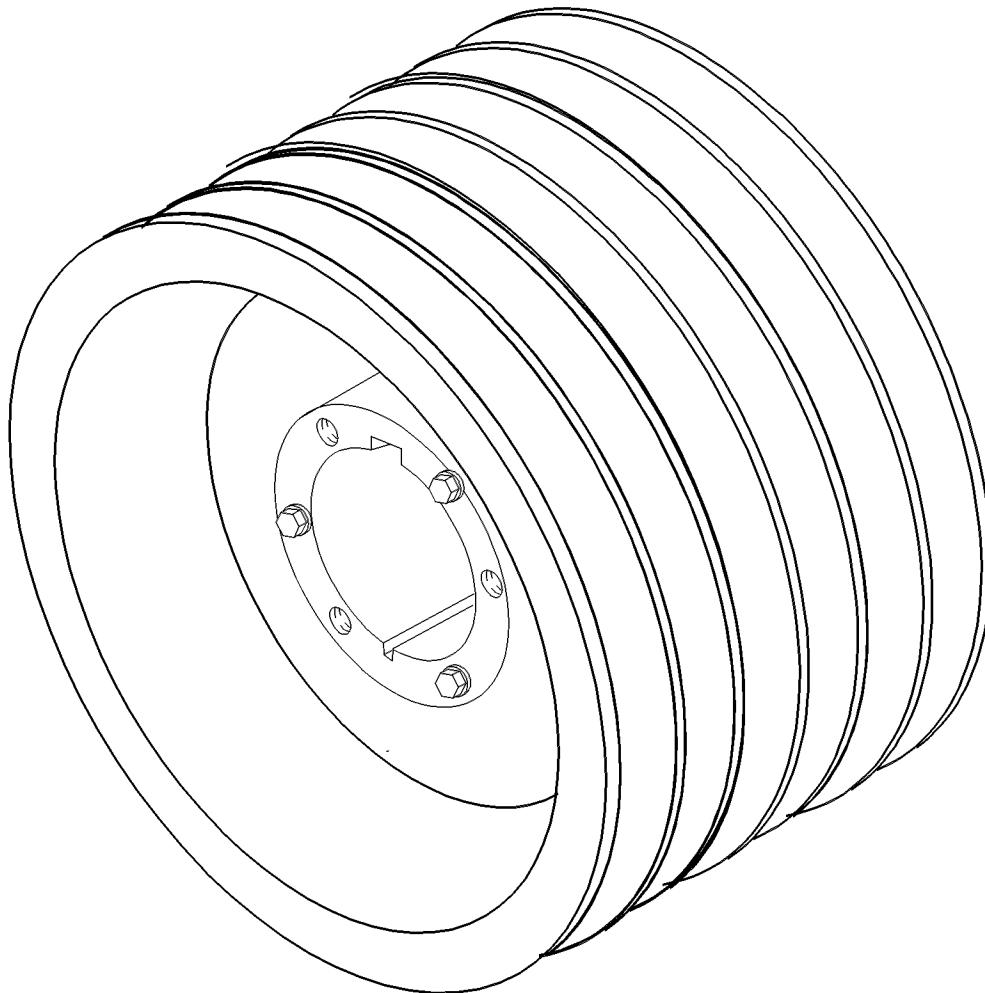
196.85-MM DIAMETER (7.75-IN)

FOR USE WITH LOW KW STUB SHAFT GP
AN ATTACHMENT

SMCS-1205

i02656382

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
					AVAILABLE REPAIR KIT(S):						
			4W-0335	1	KIT-BUSHING (CRANKSHAFT PULLEY)						
					(INCLUDES BUSHING, BOLTS, LOCKWASHER, SET SCREW AND KEY)						



GRAPHIC #1

<END>

g00621997

BASIC ENGINE

8N-6564 PULLEY AS-CRANKSHAFT

S/N: ZBA1-UP

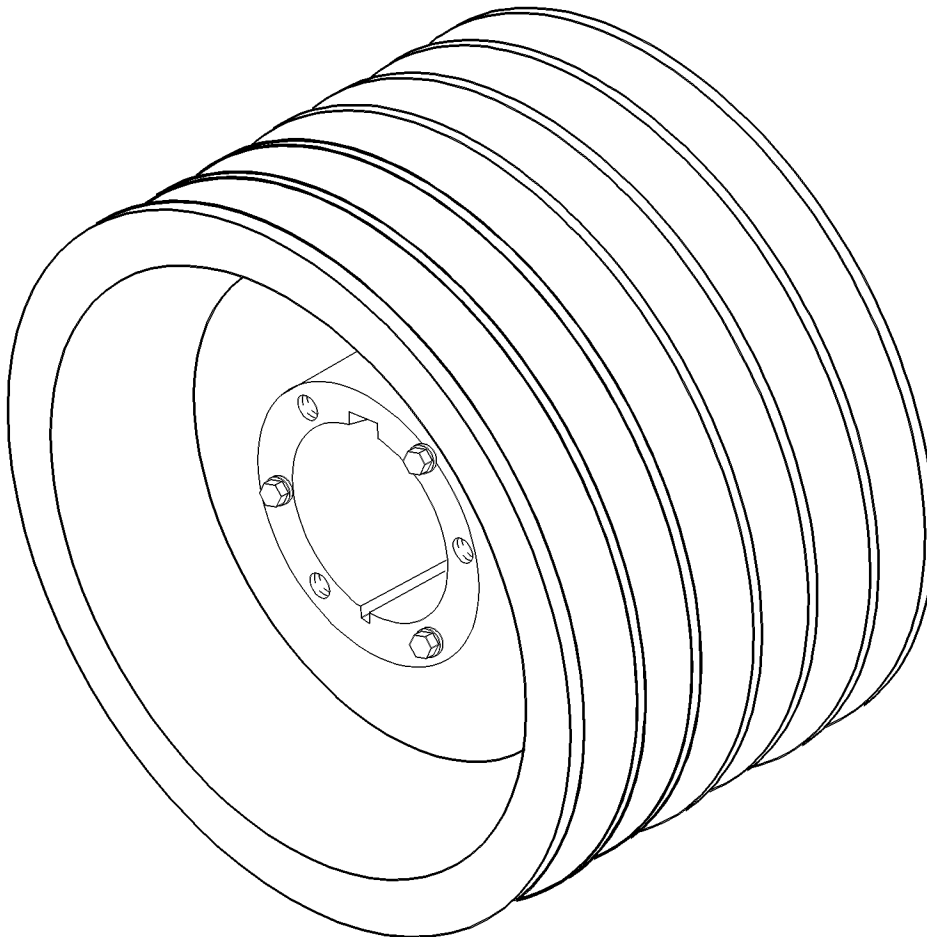
247.65-MM DIAMETER (9.75-IN)

FOR USE WITH LOW KW STUB SHAFT GP
AN ATTACHMENT

SMCS-1205

i02774996

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
					AVAILABLE REPAIR KIT(S):						
			4W-0335	1	KIT-BUSHING (CRANKSHAFT PULLEY)						
					(INCLUDES BUSHING, BOLTS, LOCKWASHER, SET SCREW AND KEY)						



GRAPHIC #1

<END>

g00625097

BASIC ENGINE

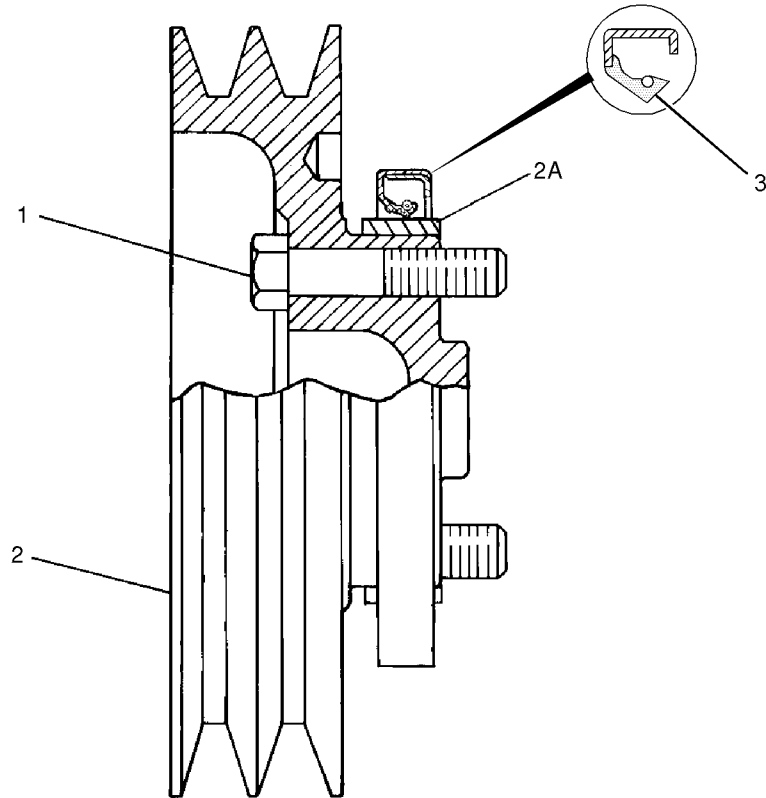
8N-8468 PULLEY GP-AUXILIARY DRIVE-UPPER, RH

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1205, 1207

i02327564

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	1	1	0S-1571	4	BOLT (3/8-16X1.75-IN)						
	2	1	9Y-5286	1	PULLEY AS						
	2A	1	053-5065	1	SLEEVE						
	3	1	235-2484	1	SEAL-LIP TYPE						
C-CHANGE FROM PREVIOUS TYPE											



GRAPHIC #1

<END>

g01014939

BASIC ENGINE

254-2204 PULLEY GP-FAN DRIVE

S/N: ZBA1-UP

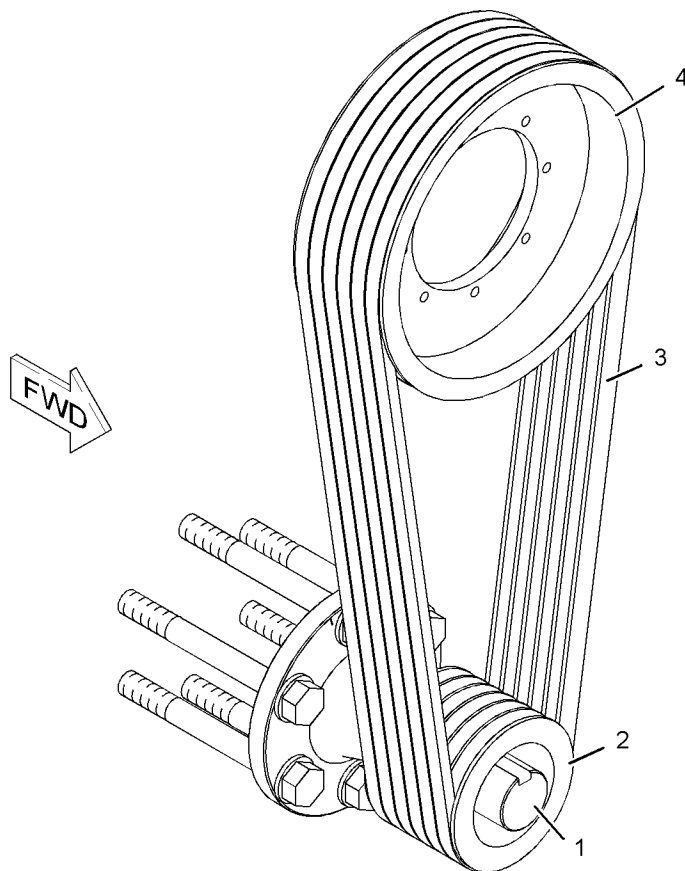
0.520 RATIO

FOR USE WITH ENGINE MOUNTED FAN
AN ATTACHMENT

SMCS-1359

i02173773

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	7N-7660	1	DRIVE GP-FAN	111
	2	1	8N-6564	1	PULLEY AS-CRANKSHAFT	
		1	4W-0335	1	KIT-BUSHING (CRANKSHAFT PULLEY)	
					(INCLUDES BUSHING, BOLTS, LOCKWASHERS, SET SCREW & KEY)	
	3	1	254-3526	1	V-BELT SET (INCLUDES 6-BELTS) (FAN DRIVE)	
	4	1	7W-5109	1	PULLEY-FAN DRIVE	
Y-SEPARATE ILLUSTRATION						



GRAPHIC #1

<END>

g01079915

BASIC ENGINE

7W-3813 SEAL GP - CRANKSHAFT

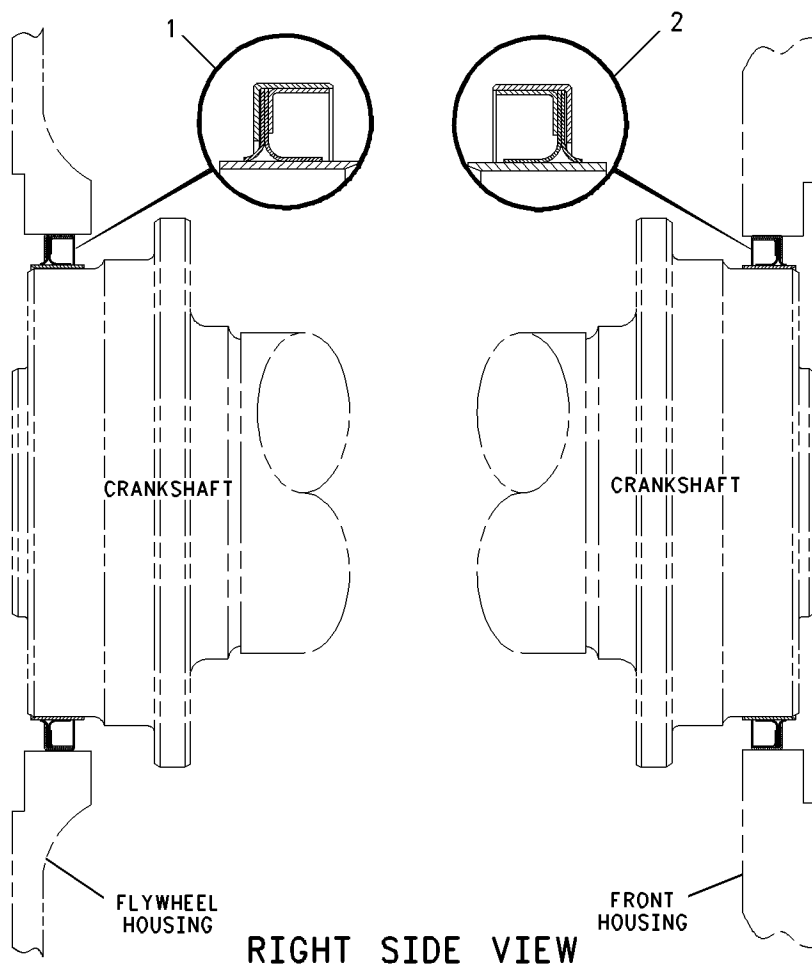
S/N: ZBA1-UP

SMCS-1160, 1161

i02390835

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	1	1	113-8433	1	SEAL GP-CRANKSHAFT (CCW ROTATION)						
					(INSTALL IN FLYWHEEL HOUSING ON STANDARD ROTATION ENGINES & IN FRONT HOUSING ON REVERSE ROTATION ENGINES)						
C	2	1	113-8432	1	SEAL GP-CRANKSHAFT (CW ROTATION)						
					(INSTALL IN FRONT HOUSING ON STANDARD ROTATION ENGINES & IN FLYWHEEL HOUSING ON REVERSE ROTATION ENGINES)						

C- CHANGE FROM PREVIOUS TYPE



GRAPHIC #1

<END>

g00899342

BASIC ENGINE

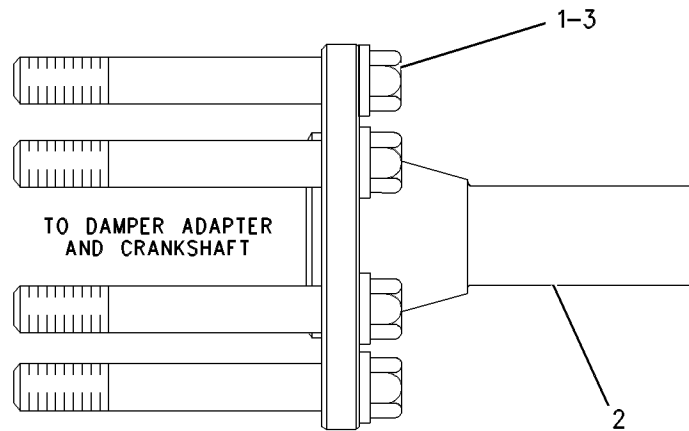
150 - 7947 SHAFT GP - STUB

S/N: ZBA1-UP
AN ATTACHMENT

SMCS - 1237

i02220766

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9F-8122	6	BOLT (1-14X9-IN)						
	2	1	147-1983	1	SHAFT-STUB						
	3	1	5P-8250	6	WASHER (28X49X5-MM THK)						



GRAPHIC #1

<END>

g00483525

BASIC ENGINE

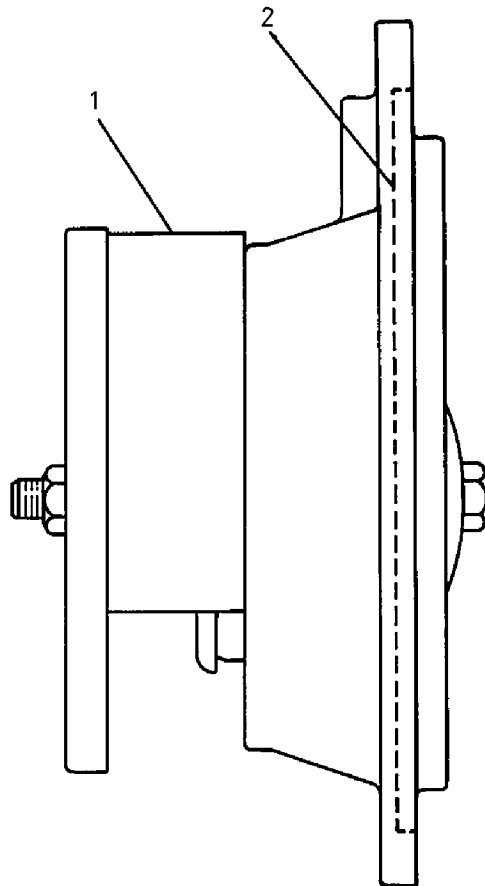
8N-8510 VALVE GP-EXPLOSION RELIEF-CRANKCASE

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1233

i02656760

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
J	1	1	8N-8509	2	VALVE GP-EXPLOSION RELIEF (CRANKCASE)						
	2	1	272-0759	2	SEAL						
					AVAILABLE REPAIR KIT(S) :						
J			2W-3584	1	KIT-REPAIR (EXPLOSION RELIEF) (CRANKCASE)						
					(INCLUDES VALVE PLATE AND SPINDLE O-RINGS)						
J -KIT MARKED J SERVICES PART MARKED J											



GRAPHIC #1

<END>

g00637870

BASIC ENGINE

1W-8465 VALVE MECHANISM GP

S/N: ZBA1-UP

SMCS-1102, 1121, 1123, 1209

i02821824

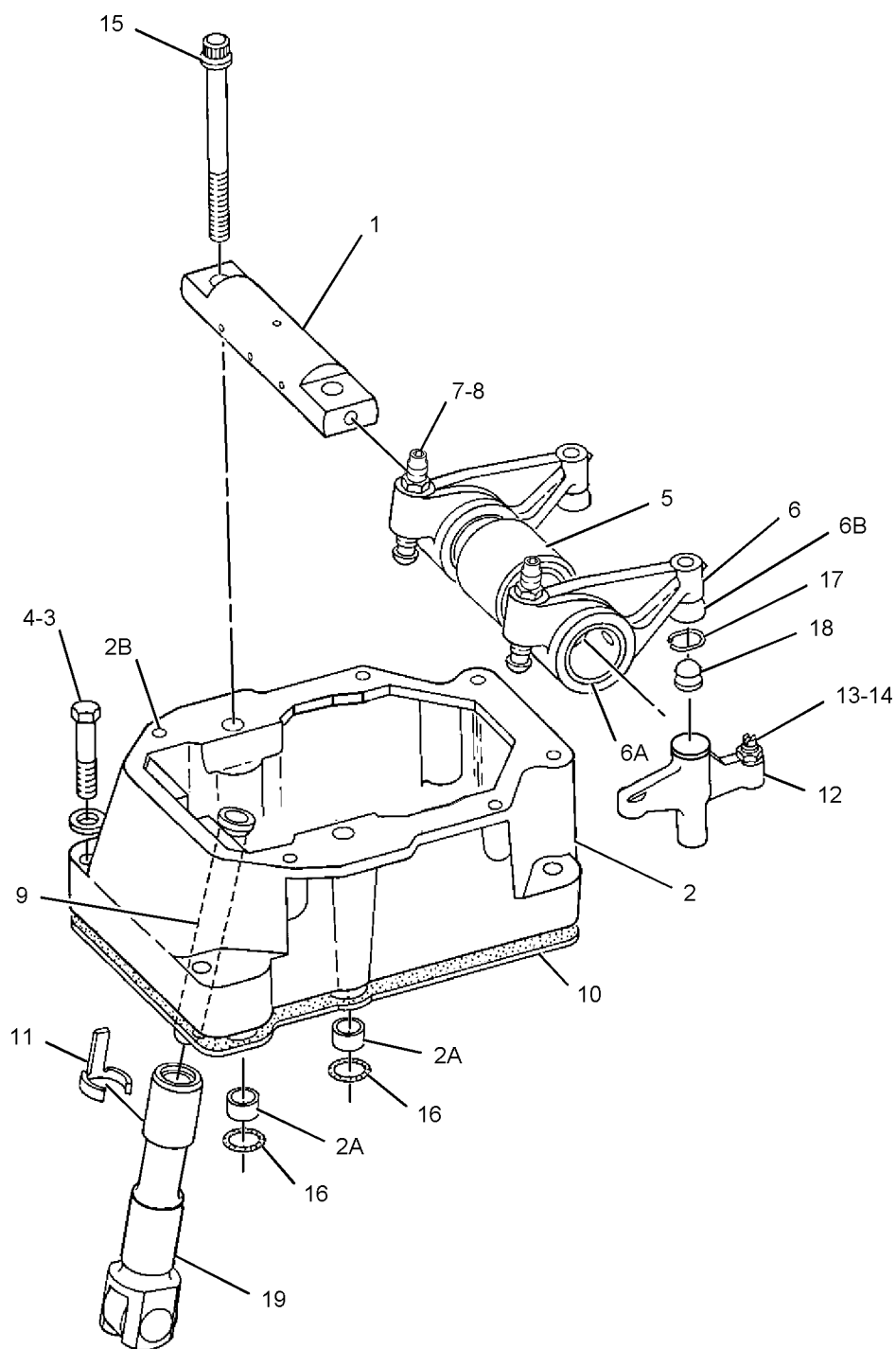
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	1	1	7C-2377	1	SHAFT AS - ARM						
		1	154-1584	1	PIN - SPRING						
		1	138-3249	1	BASE AS						
	2A	1	8N-4387	2	DOWEL - HOLLOW						
	2B	1	4R-9976	4	INSERT - THREADED						
	3	1	0S-1590	4	BOLT (3/8-16X2-IN)						
	4	1	5M-2894	4	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	5	1	158-3415	1	SPACER (37.16X55X38.75-MM THK)						
R	6	1	9Y-1741	2	ROCKER ARM AS						
					(EACH INCLUDES)						
	6A	1	1W-4594	1	BEARING-SLEEVE						
	6B	1	8N-7197	1	SOCKET-ARM						
	7	1	200-2003	2	SCREW-ADJUSTMENT (1/2-20X2-IN)						
	8	1	3J-9196	2	NUT-JAM (1/2-20-THD)						
	9	1	4W-6682	2	PUSHROD-VALVE						
	10	1	7E-3772	1	GASKET						
	11	1	7N-4782	2	SPRING-LIFTER GUIDE						
	12	1	129-4181	2	BRIDGE AS						
					(EACH INCLUDES)						
		1	8N-7191	1	SEAT-WEAR						
	13	1	2N-5842	2	SCREW (3/8-24X1-IN)						
	14	1	9L-7712	2	NUT (3/8-24-THD)						
C	15	1	8T-7581	2	BOLT-12 POINT HEAD (1/2-13X6-IN)						
	16	1	2J-0157	2	SEAL-O-RING						
	17	1	9F-7707	2	RING-RETAINING						
	18	1	8F-8858	2	BUTTON-VALVE						
R	19	1	263-6679	2	LIFTER AS						
					(EACH INCLUDES)						
		1	7N-3421	1	INSERT-LIFTER						

C-CHANGE FROM PREVIOUS TYPE
R-REMFG PART MAY BE AVAILABLE

BASIC ENGINE

1W-8465 VALVE MECHANISM GP (contd.)

i02821824



GRAPHIC #1

<END>

g01123431

LUBRICATION SYSTEM

4P-8312 BREATHER GP-CRANKCASE

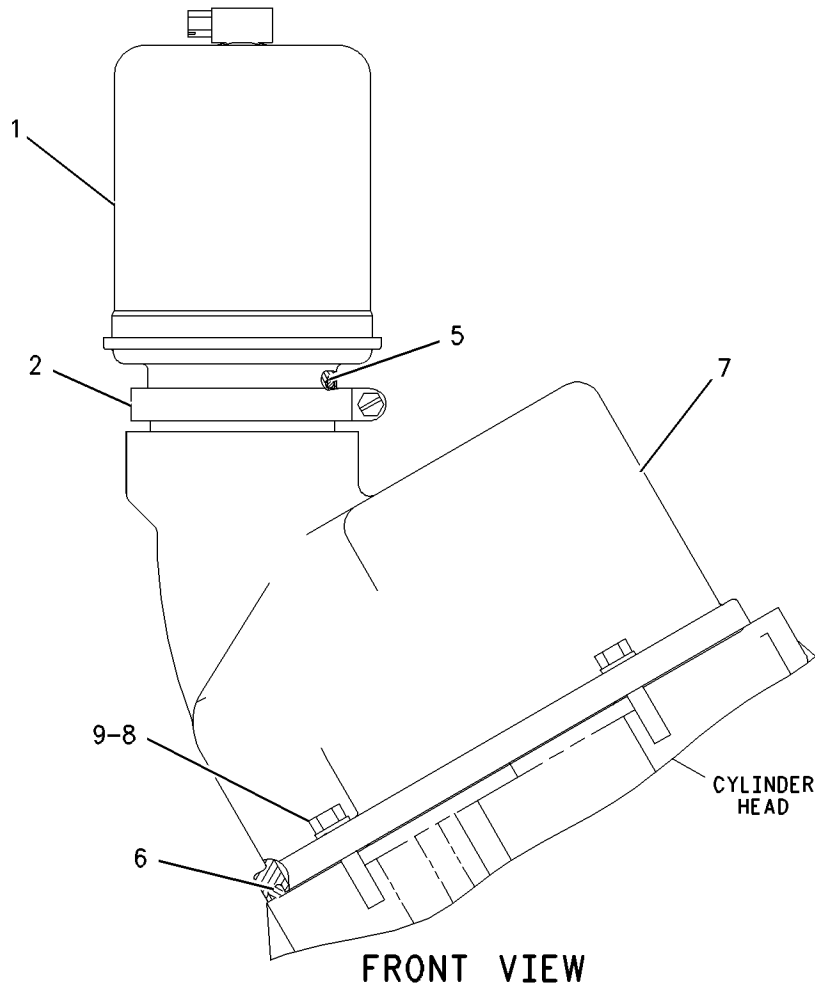
S/N: ZBA1-UP

SMCS-1317

i02765616

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4W-3027	1	BREATHER AS (CRANKCASE)						
	2	1	4W-3034	1	CLAMP-HOSE						
	5	1	033-6031	1	SEAL-O-RING						
	6	1	272-0757	1	SEAL (VALVE COVER TO BREATHER)						
C	7	1	213-4518	1	COVER AS-VALVE MECHANISM						
	8	1	1A-9579	4	BOLT (5/16-18X1.5-IN)						
	9	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)						

C- CHANGE FROM PREVIOUS TYPE



GRAPHIC #1

<END>

g00945816

LUBRICATION SYSTEM

4P-8345 BREATHER GP

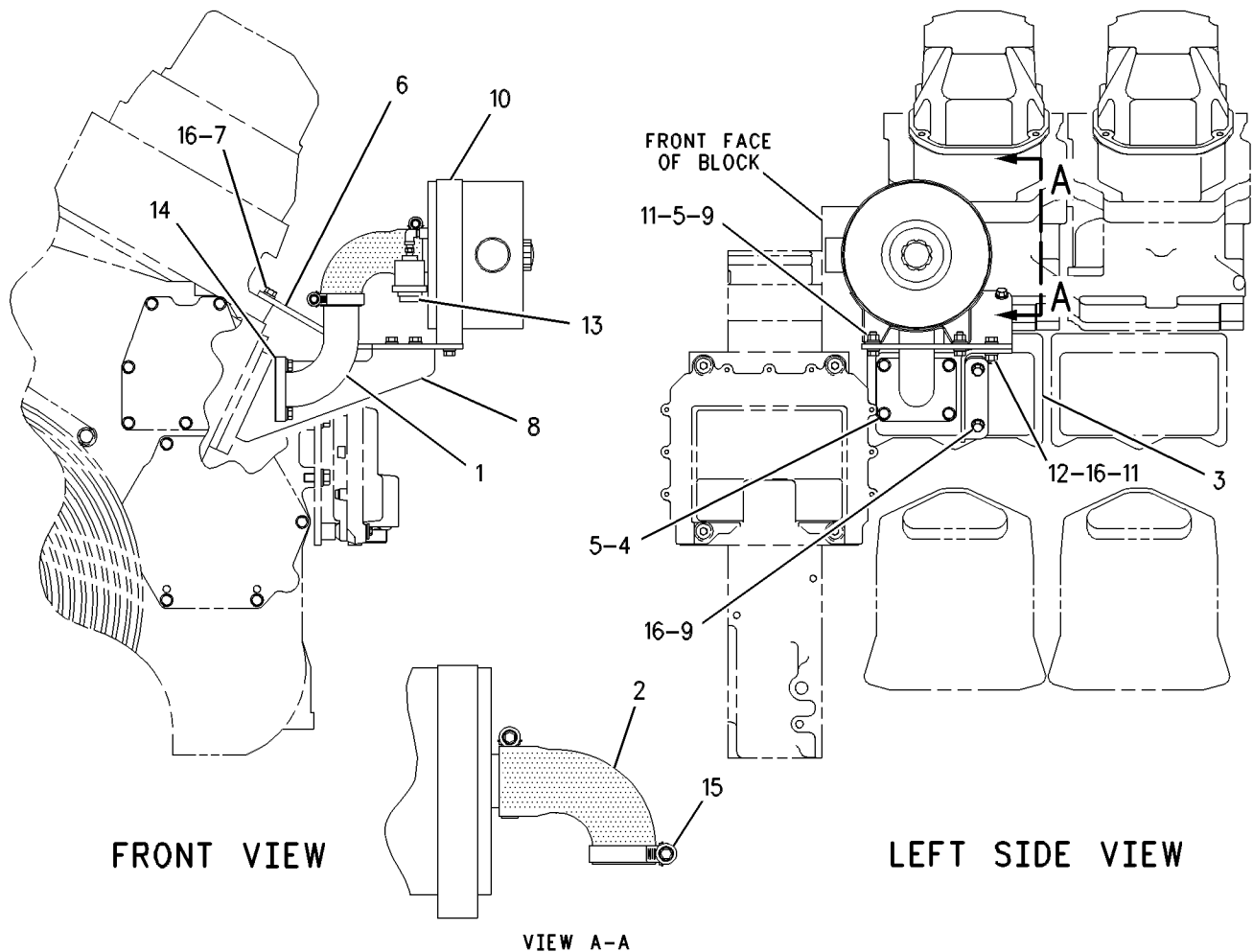
S/N: ZBA1-UP

SMCS-1317

i02224381

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4P-8580	1	TUBE AS						
	2	1	035-4137	1	HOSE-AIR CLEANER						
	3	1	8N-9993	1	COVER-CAMSHAFT						
	4	1	0S-1591	4	BOLT (3/8-16X1.5-IN)						
	5	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	6	1	4P-8894	1	BRACKET						
	7	1	0S-1594	2	BOLT (3/8-16X1-IN)						
	8	1	4P-8895	1	BRACKET						
	9	1	1A-2029	4	BOLT (3/8-16X1.125-IN)						
Y	10	1	9Y-8829	1	AIR CLEANER GP						423
	11	1	9S-8752	4	NUT-FULL (3/8-16-THD)						
	12	1	3B-1915	2	BOLT (3/8-16X1.375-IN)						
Y	13	1	9Y-8220	1	INDICATOR GP-AIR FILTER CHANGE						465
	14	1	2W-0752	1	GASKET						
	15	1	8T-6703	2	CLAMP-HOSE						
	16	1	8M-9024	8	WASHER-HARD (10.2X22.5X5-MM THK)						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00461092

LUBRICATION SYSTEM

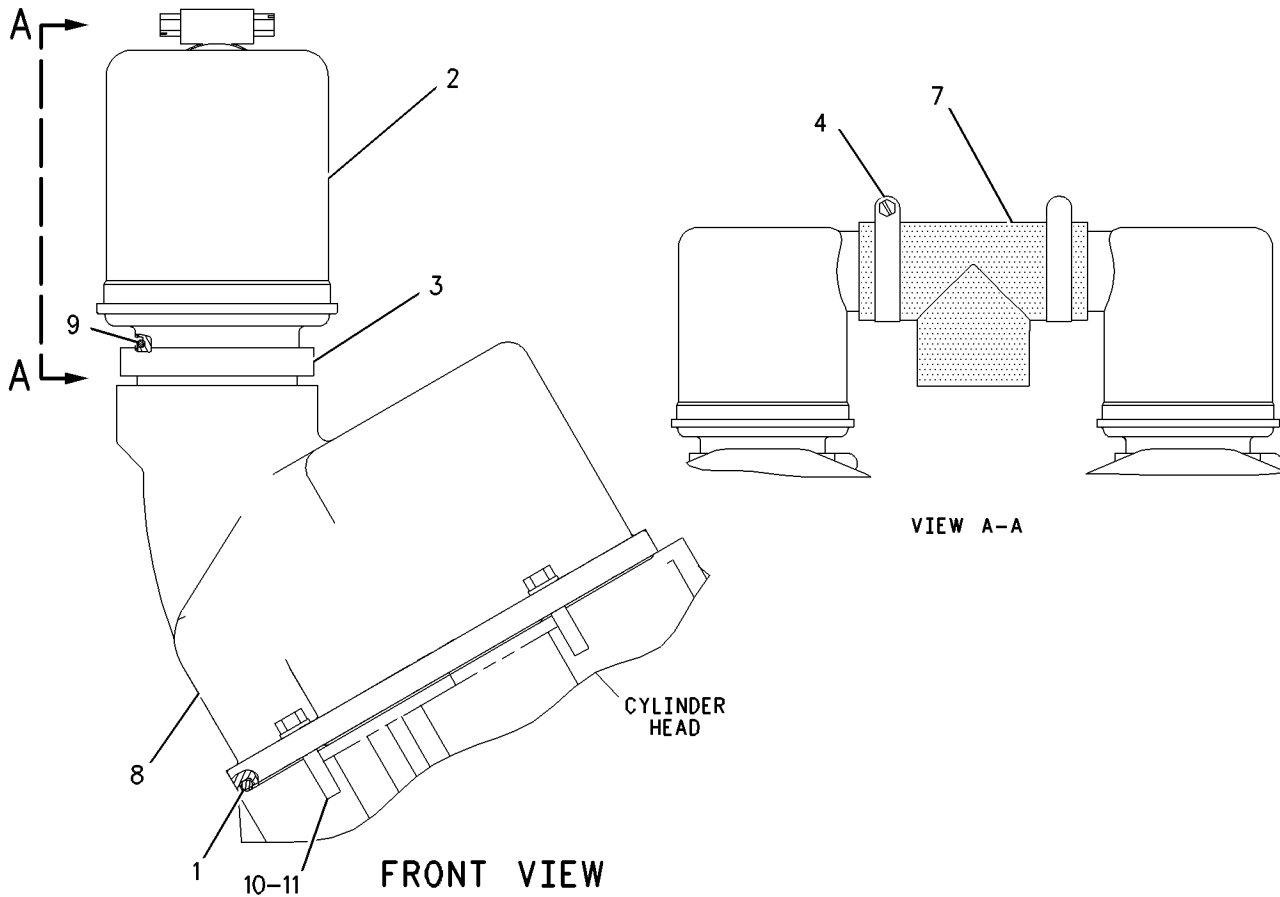
4P-8360 BREATHER GP

S/N: ZBA1-UP

SMCS-1317

i02227899

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4W-1596	4	SEAL-O-RING (VALVE COVER)						
	2	1	4W-3027	4	BREATHER AS (CRANKCASE)						
	3	1	4W-3034	4	CLAMP-HOSE						
	4	1	5P-0597	4	CLAMP-HOSE						
	7	1	217-6692	2	HOSE-TEE						
C	8	1	213-4518	4	COVER AS-VALVE MECHANISM						
	9	1	033-6031	4	SEAL-O-RING						
	10	1	1A-9579	16	BOLT (5/16-18X1.5-IN)						
	11	1	9M-1974	16	WASHER-HARD (8.8X16X2-MM THK)						
C-CHANGE FROM PREVIOUS TYPE											



GRAPHIC #1

<END>

g00923264

LUBRICATION SYSTEM

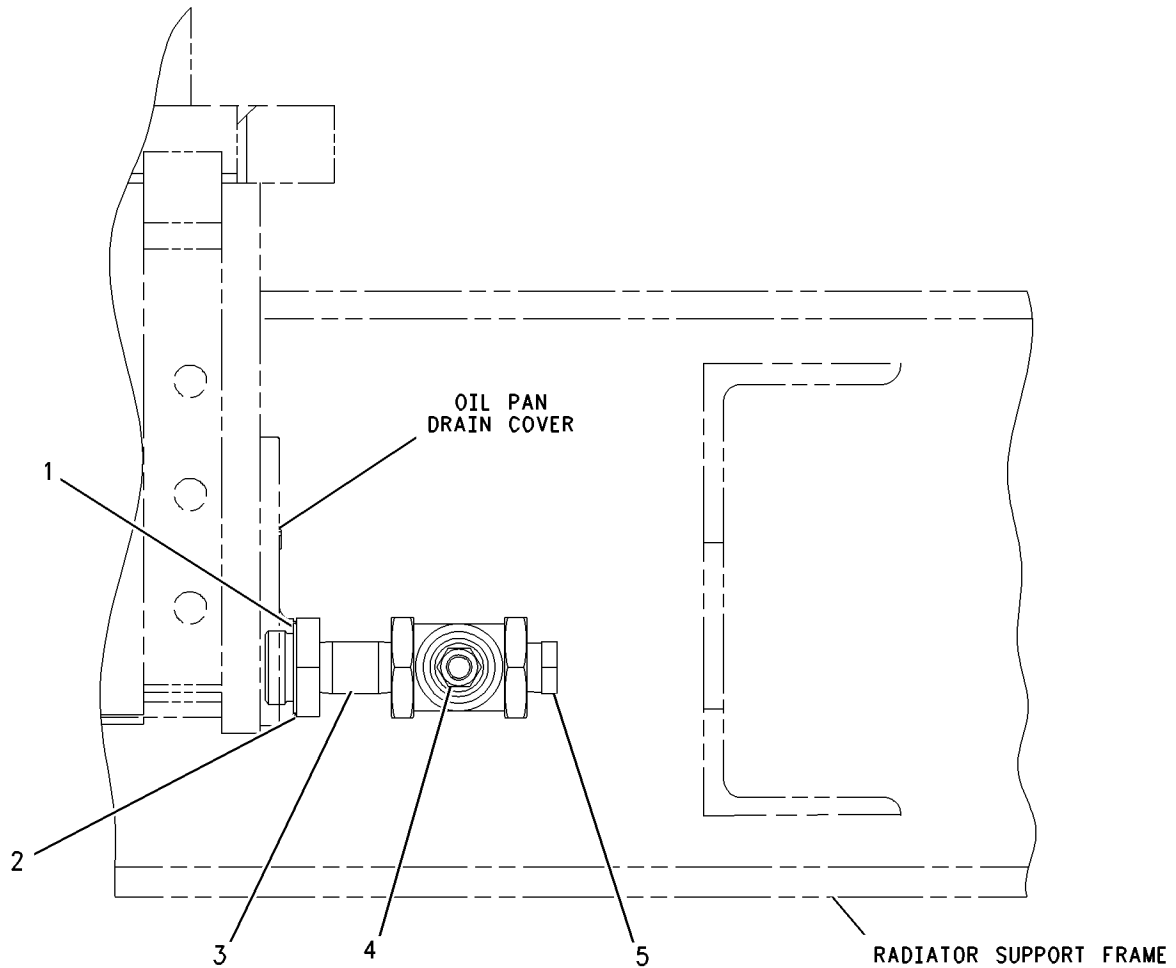
9Y-7876 DRAIN GP-OIL-PAN

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1372

i02509881

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6F-4868	1	GASKET						
	2	1	7N-6511	1	ADAPTER						
	3	1	1F-6660	1	NIPPLE-PIPE						
	4	1	9B-4202	1	VALVE-DRAIN (ENGINE OIL)						
B	5	1	3E-7430	1	PLUG-PIPE						
B-USE AS REQUIRED											



GRAPHIC #1

<END>

g00825656

LUBRICATION SYSTEM

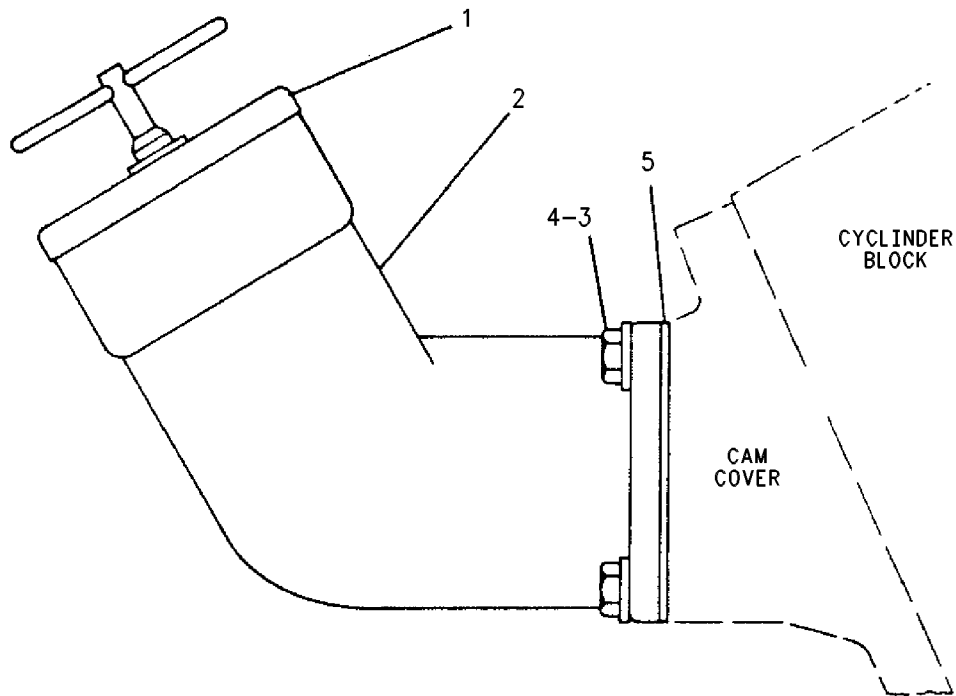
7N-1875 FILLER GP-ENGINE OIL-CYLINDER BLOCK

S/N: ZBA1-UP

SMCS-1316

i02220721

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7L-4447	1	CAP AS-ENGINE OIL FILLER						
	2	1	7N-5336	1	ELBOW-OIL FILLER						
	3	1	0S-1588	4	BOLT (3/8-16X1.25-IN)						
	4	1	5M-2894	4	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	5	1	2W-0752	1	GASKET						



GRAPHIC #1

<END>

g00621988

LUBRICATION SYSTEM

4W-6874 FILTER GP-ENGINE OIL-RH

S/N: ZBA1-UP

SMCS-1306, 1308

i02496208

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	1R-0726	3	FILTER ELEMENT AS-ENGINE OIL	
	2	1	2S-5100	1	VALVE AS-MANUAL	
	3	1	2W-1635	1	SPRING	
	4	1	2W-1969	1	VALVE-BYPASS	
	5	1	4W-5592	1	COVER	
	6	1	4W-6387	1	HOUSING AS (BYPASS)	
		1	7N-2043	3	DOWEL	
	7	1	4W-6960	1	SUPPORT-HOUSING	
	8	1	4W-8459	1	COVER	
	9	1	7F-0192	3	BOLT (3/8-16X2-IN)	
	10	1	8N-9482	1	SUPPORT-OIL FILTER	
	11	1	111-8639	1	COVER-BYPASS VALVE	
	12	1	133-9313	1	PLATE	
C	13	1	155-1690	1	ADAPTER AS	
			154-1581	1	RING-RETAINING	
C	14	1	157-0443	1	COVER AS	
		1	7N-2043	1	DOWEL	
C	15	1	278-1082	1	HOUSING AS-FILTER (ENGINE OIL)	
		1	4V-7412	1	BOSS (3/8-16-THD)	
	16	1	0L-1143	4	BOLT (3/8-16X2.5-IN)	
	17	1	0L-1351	3	BOLT (3/8-16X0.875-IN)	
	18	1	0S-1571	2	BOLT (3/8-16X1.75-IN)	
	19	1	0S-1588	8	BOLT (3/8-16X1.25-IN)	
	20	1	0S-1619	2	BOLT (3/8-16X3-IN)	
	21	1	165-3931	3	BOLT (3/8-16X1.75-IN)	
	22	1	1M-0644	3	BOLT (3/8-16X2.25-IN)	
	23	1	4S-5882	2	BOLT (1/2-13X7.25-IN)	
	24	1	5D-5957	1	SEAL-O-RING	
	25	1	5M-2894	17	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	26	1	5P-4624	2	BOLT (3/4-10X11.5-IN)	
	27	1	5P-4892	4	SEAL-O-RING	
	28	1	6V-3907	4	SEAL-O-RING	
	29	1	6V-5048	6	SEAL-O-RING	
	30	1	6V-8001	1	SEAL-O-RING	
C	31	1	8T-6762	1	PLUG-PIPE	
	32	1	9S-4182	6	PLUG-O-RING	
	33	1	9S-8752	3	NUT-FULL (3/8-16-THD)	
B	34	1	1D-4574	2	BOLT (1/2-13X6-IN)	
B	35	1	5P-5421	4	BOLT (1/2-13X11.5-IN)	

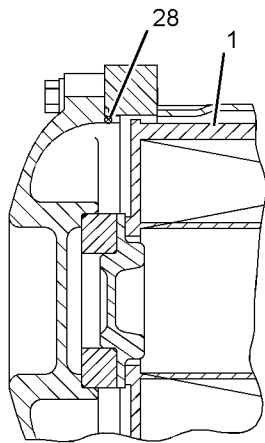
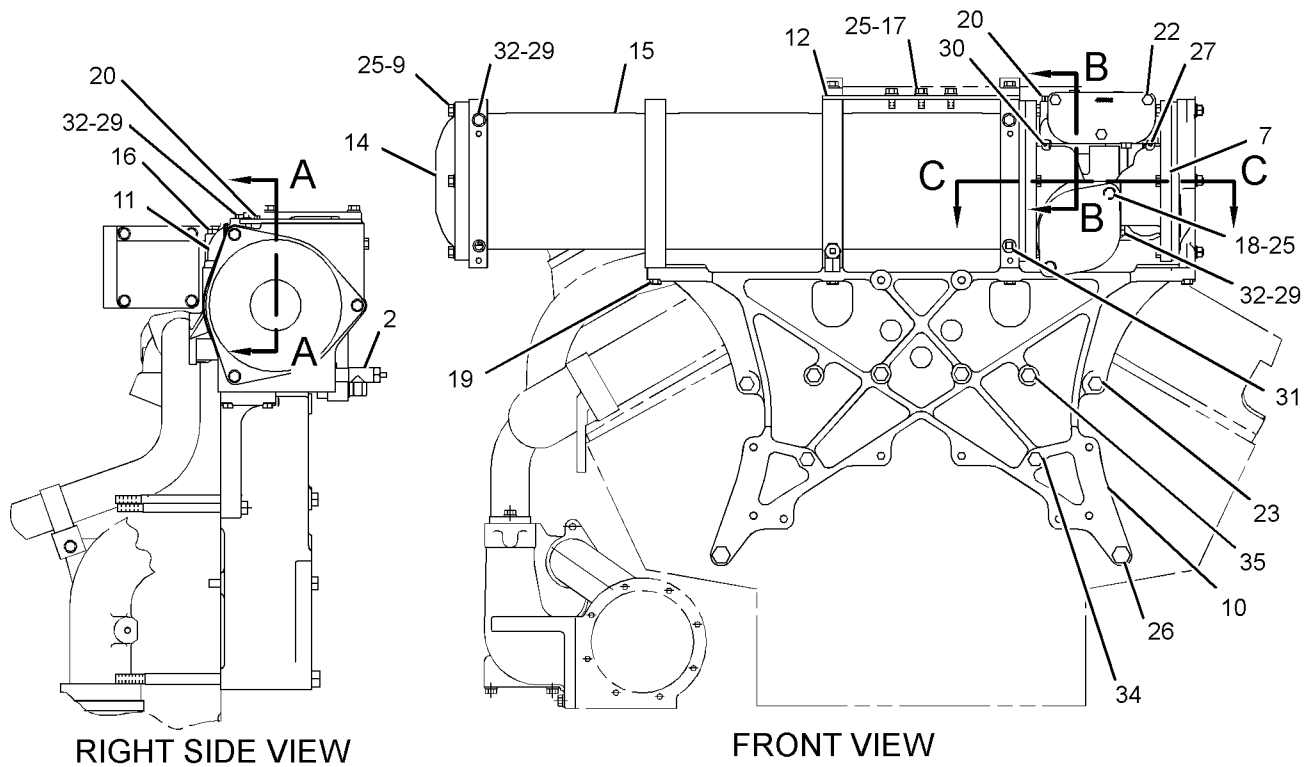
B- USE AS REQUIRED

C- CHANGE FROM PREVIOUS TYPE

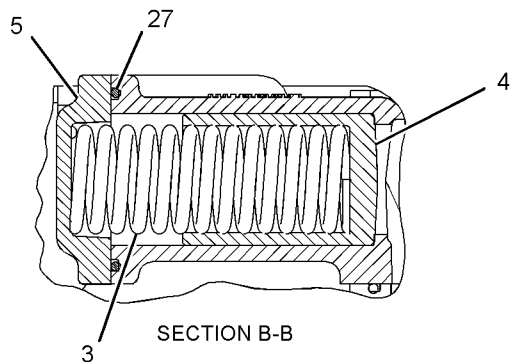
LUBRICATION SYSTEM

4W-6874 FILTER GP-ENGINE OIL (contd.)

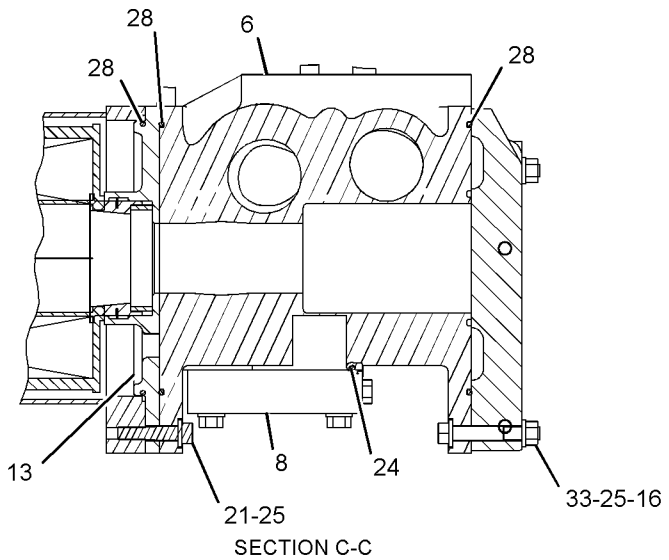
i02496208



SECTION A-A



SECTION B-B



SECTION C-C

GRAPHIC #1

<END>

g01153005

LUBRICATION SYSTEM

4W-9968 FILTER GP-ENGINE OIL-DUPLEX

S/N: ZBA1-UP

AN ATTACHMENT

SMCS-1306, 1308

i02603743

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	1B-8706	1	KEY-WOODRUFF	
	2	1	1M-0644	3	BOLT (3/8-16X2.25-IN)	
	3	1	1R-0726	4	FILTER ELEMENT AS-ENGINE OIL	
	4	1, 2	2S-5100	2	VALVE AS-MANUAL	
	5	2	2W-1635	1	SPRING	
	6	2	2W-1969	1	VALVE-BYPASS	
	7	1	2W-9209	1	VALVE AS-CHECK	
	8	2	3B-4615	2	PIN-COTTER	
	9	1	3D-9777	1	LEVER	
	10	1	3J-9173	1	BOLT-SHOULDER (1/2-13X1.25-IN)	
	11	1	3L-5389	1	TIE ROD	
	12	2	4W-0090	1	BLOCK	
	13	2	4W-0096	1	LEVER	
	14	1	4W-0288	1	TUBE AS	
	15	1	4W-0289	1	TUBE AS	
	16	2	4W-0290	1	VALVE AS-TOGGLE	
	17	2	4W-0334	1	PLUNGER AS-BALL	
	18	2	4W-0343	1	BRACKET	
	19	2	4W-5592	1	COVER	
	20	2	5B-9079	2	NUT-JAM (3/8-24-THD)	
	21	1, 2	5P-4892	4	SEAL-O-RING	
	23	1, 2	6V-3907	6	SEAL-O-RING	
	24	1	6V-5048	6	SEAL-O-RING	
	25	2	6V-8002	1	SEAL-O-RING	
	26	1, 2	7F-0192	6	BOLT (3/8-16X2-IN)	
Y	27	1	7W-3816	1	VALVE GP-FLUID CONTROL	238
	28	1	8N-9482	1	SUPPORT-OIL FILTER	
	29	1	9K-6540	1	WASHER-SPRING (0.63X1.25X0.04-IN THK)	
	30	2	002-6453	1	ELBOW	
	31	1	111-8639	1	COVER-BYPASS VALVE	
	32	1	133-9313	1	PLATE	
	33	2	155-1690	2	ADAPTER AS	
					(EACH INCLUDES)	
		1	154-1581	1	RING-RETAINING	
	34	1	157-0443	2	COVER AS	
					(EACH INCLUDES)	
		1	7N-2043	1	DOWEL	
	35	1	278-1083	1	HOUSING AS-FILTER (AUXILIARY)	
	36	1	278-1082	1	HOUSING AS-FILTER (ENGINE OIL)	
		1	4V-7412	1	BOSS (3/8-16-THD)	
	37	1	0L-1143	1	BOLT (3/8-16X2.5-IN)	
	38	1	0L-1351	3	BOLT (3/8-16X0.875-IN)	
	39	1, 2	0S-1571	3	BOLT (3/8-16X1.75-IN)	
	40	1	0S-1588	8	BOLT (3/8-16X1.25-IN)	
	41	2	0S-1594	1	BOLT (3/8-16X1-IN)	
	42	1	0S-1619	2	BOLT (3/8-16X3-IN)	
	43	1	0T-0573	3	BOLT (3/8-16X2.75-IN)	
	44	1	165-3931	3	BOLT (3/8-16X1.75-IN)	
	45	2	1A-9252	2	END-ADJUSTMENT ROD	
B	46	1	1D-4574	2	BOLT (1/2-13X6-IN)	
	47	1	4S-5882	2	BOLT (1/2-13X7.25-IN)	
	48	1, 2	5M-2894	23	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	49	1	5P-4624	2	BOLT (3/4-10X11.5-IN)	
B	50	1	5P-5421	4	BOLT (1/2-13X11.5-IN)	
	51	1	5P-8245	1	WASHER-HARD (13.5X25.5X3-MM THK)	
	52	2	6K-9194	1	ELBOW-FLARED	

LUBRICATION SYSTEM

4W-9968 FILTER GP-ENGINE OIL (contd.)

i02603743

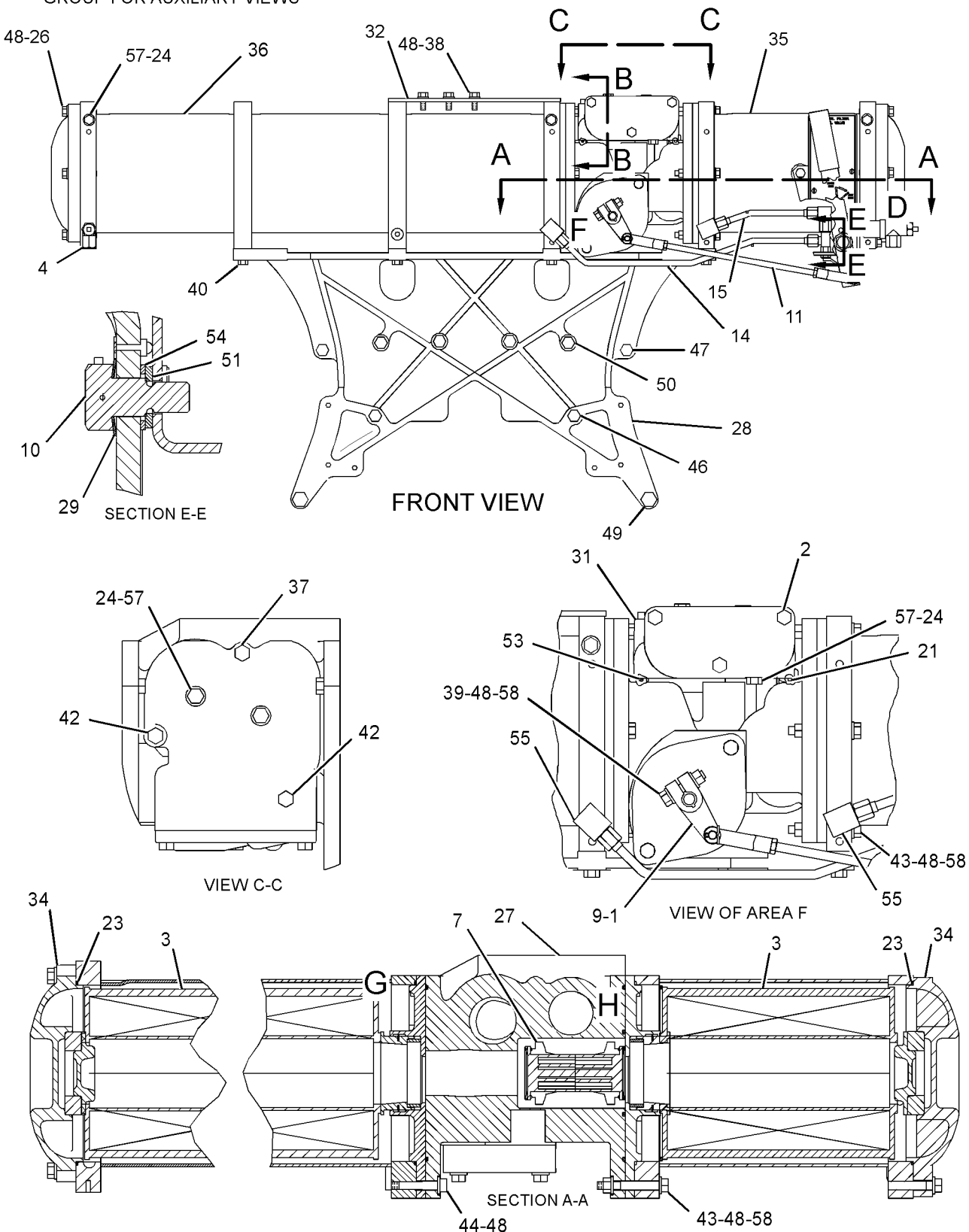
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	53	1	6V-8001	1	SEAL-O-RING	
C	54	1	6V-8823	1	WASHER-HARD (19.25X27X2-MM THK)	
	55	1	7D-8793	2	ELBOW-FLARED	
	56	2	9H-6673	2	PIN	
	57	1	9S-4182	6	PLUG-O RING	
	58	1	9S-8752	4	NUT-FULL (3/8-16-THD)	
B-USE AS REQUIRED						
C-CHANGE FROM PREVIOUS TYPE						
Y-SEPARATE ILLUSTRATION						

LUBRICATION SYSTEM

4W-9968 FILTER GP-ENGINE OIL (contd.)

i02603743

REFER TO ALL ILLUSTRATIONS OF THIS GROUP FOR AUXILIARY VIEWS



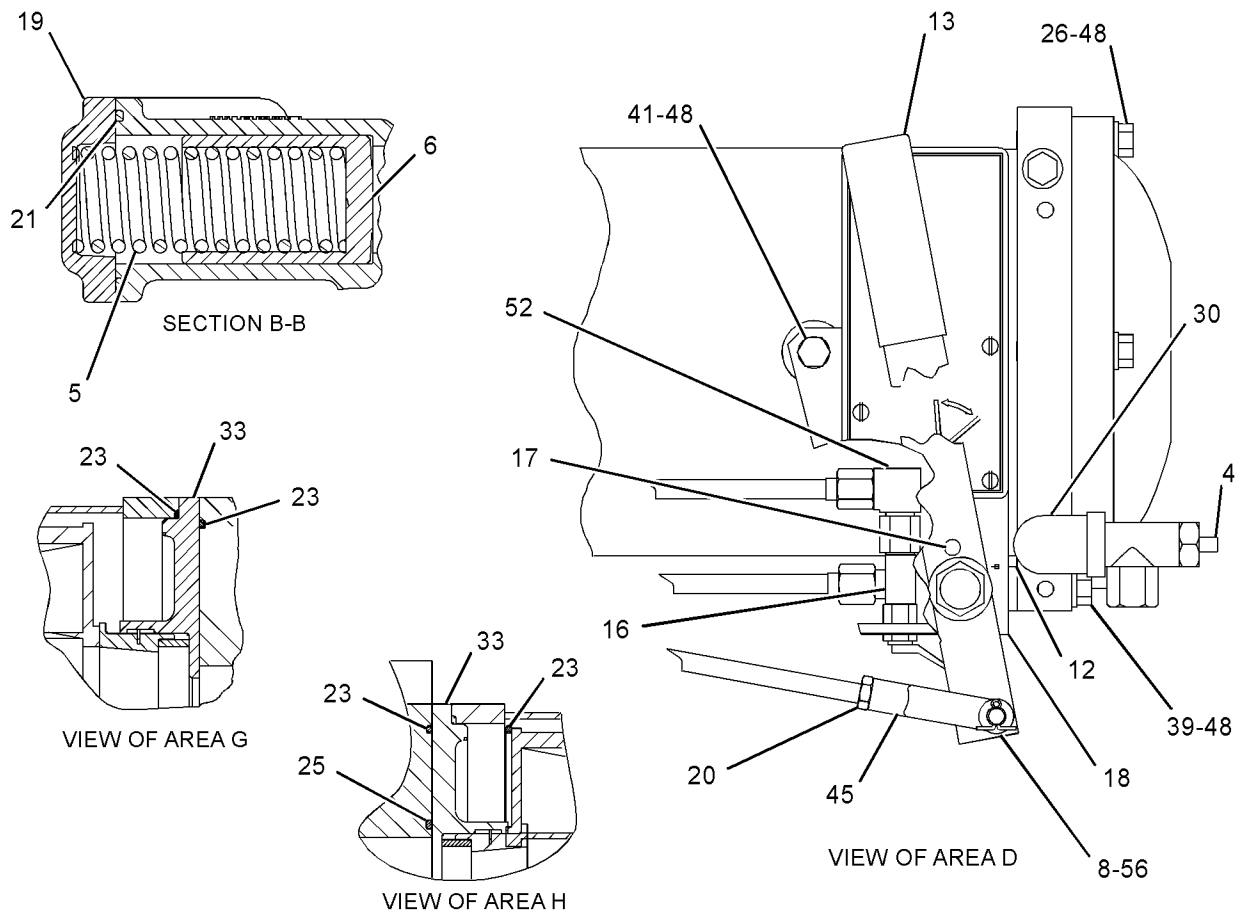
GRAPHIC #1

g01154083

LUBRICATION SYSTEM

4W-9968 FILTER GP-ENGINE OIL (contd.)

i02603743



GRAPHIC #2

<END>

g01155007

LUBRICATION SYSTEM

134-0975 FILTER GP-ENGINE OIL-DUPLEX

S/N: ZBA1-UP

FOR USE WITH 134-3749-PAGE 192. CANNOT BE USED WITH ENGINE WITH RADIATOR
AN ATTACHMENT

SMCS-1306, 1308

i02491437

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	0L-1143	1	BOLT (3/8-16X2.5-IN)	
	2	1	0S-1619	2	BOLT (3/8-16X3-IN)	
	3	1,2	6V-3907	6	SEAL-O-RING	
Y	4	1	7W-3816	1	VALVE GP-FLUID CONTROL	238
	5	1	2W-9209	1	VALVE AS-CHECK	
	6	1	1R-0726	4	FILTER ELEMENT AS-ENGINE OIL	
	7	1	3J-9173	1	BOLT-SHOULDER (1/2-13X1.25-IN)	
	8	2	0S-1571	3	BOLT (3/8-16X1.75-IN)	
	9	1,2	5M-2894	23	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	10	1	9K-6540	1	WASHER-SPRING (0.63X1.25X0.04-IN THK)	
	11	1	6V-8823	1	WASHER-HARD (19.25X27X2-MM THK)	
	12	1	5P-8245	1	WASHER-HARD (13.5X25.5X3-MM THK)	
	13	1	4W-5592	1	COVER	
	14	1	2W-1635	1	SPRING	
	15	1,2	5P-4892	4	SEAL-O-RING	
	16	1	2W-1969	1	VALVE-BYPASS	
	17	1	5P-4624	2	BOLT (3/4-10X11.5-IN)	
B	18	1	1D-4574	2	BOLT (1/2-13X6-IN)	
B	19	1	5P-5421	4	BOLT (1/2-13X11.5-IN)	
	20	1	4S-5882	2	BOLT (1/2-13X7.25-IN)	
	21	1,2	9S-4182	6	PLUG-O RING	
	22	1,2	6V-5048	6	SEAL-O-RING	
	23	1	4W-0288	1	TUBE AS	
	24	1	3L-5389	1	TIE ROD	
	25	2	5B-9079	2	NUT-JAM (3/8-24-THD)	
	26	2	1A-9252	2	END-ADJUSTMENT ROD	
	27	2	9H-6673	2	PIN	
	28	2	3B-4615	2	PIN-COTTER	
	29	2	4W-0290	1	VALVE AS-TOGGLE	
	30	2	4W-0334	1	PLUNGER AS-BALL	
	31	1,2	2S-5100	2	VALVE AS-MANUAL	
	32	2	4W-0090	1	BLOCK	
	33	2	002-6453	1	ELBOW	
	35	2	6K-9194	1	ELBOW-FLARED	
	36	1,2	7F-0192	6	BOLT (3/8-16X2-IN)	
	37	2	4W-0096	1	LEVER	
	38	2	0S-1594	1	BOLT (3/8-16X1-IN)	
	39	1	4W-0289	1	TUBE AS	
	40	1	133-9313	1	PLATE	
	41	2	7D-8793	2	ELBOW-FLARED	
	42	2	3D-9777	1	LEVER	
	43	2	1B-8706	1	KEY-WOODRUFF	
	44	1,2	9S-8752	4	NUT-FULL (3/8-16-THD)	
	45	2	6V-8001	1	SEAL-O-RING	
	46	2	111-8639	1	COVER-BYPASS VALVE	
	47	1	0L-1351	3	BOLT (3/8-16X0.875-IN)	
C	48	1	278-1082	1	HOUSING AS-FILTER (ENGINE OIL)	
C	49	1	278-1083	1	HOUSING AS-FILTER (AUXILIARY)	
	50	1	0S-1588	8	BOLT (3/8-16X1.25-IN)	
	51	2	6V-8002	1	SEAL-O-RING	
	52	2	1M-0644	3	BOLT (3/8-16X2.25-IN)	
	53	2	4W-0343	1	BRACKET	
	54	1	8N-9482	1	SUPPORT-OIL FILTER	
	55	1	0T-0573	3	BOLT (3/8-16X2.75-IN)	

LUBRICATION SYSTEM

134-0975 FILTER GP-ENGINE OIL (contd.)

i02491437

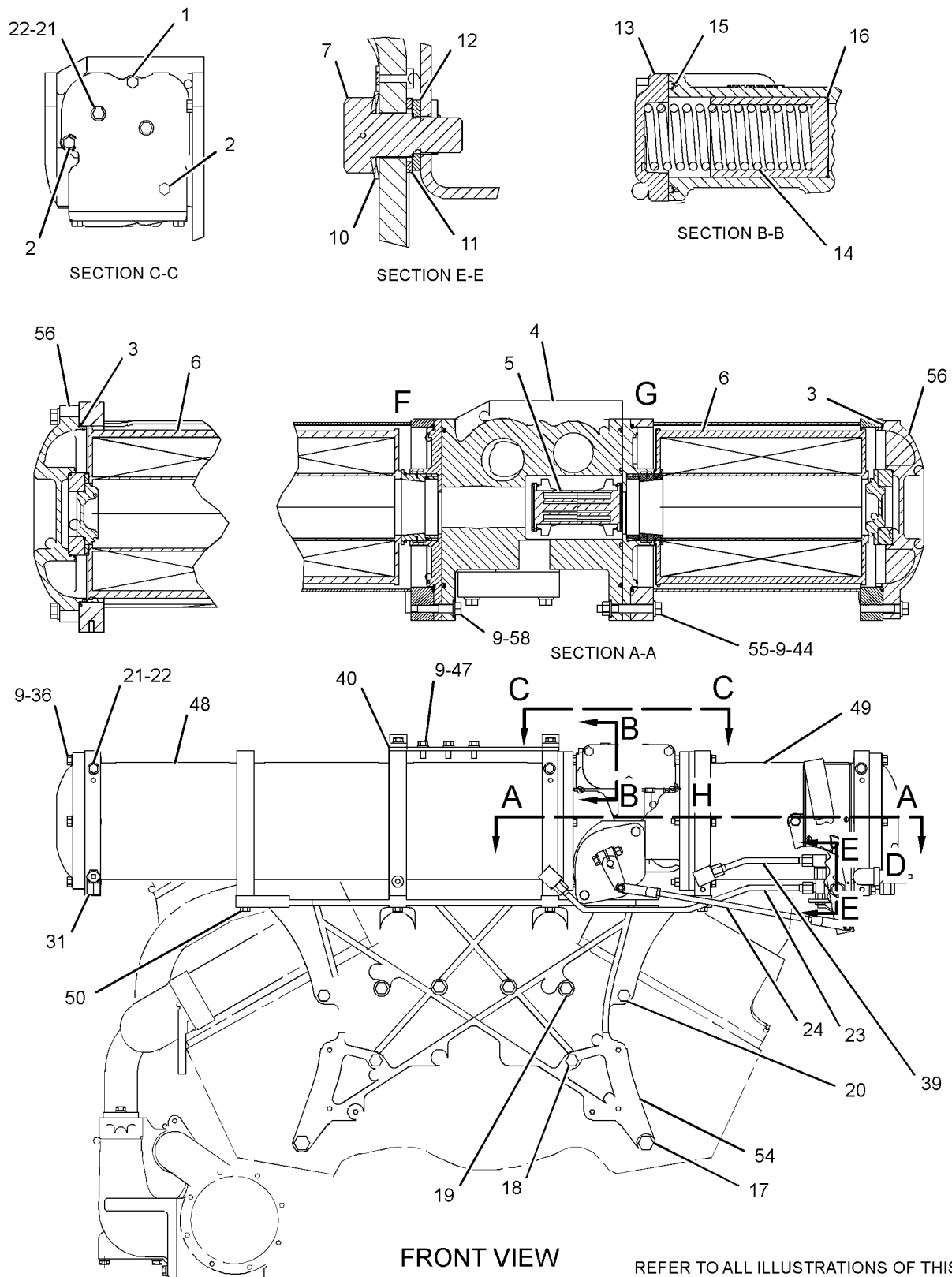
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
C	56	1	157-0443	2	COVER AS (EACH INCLUDES)	
		1	7N-2043	1	DOWEL	
C	57	2	155-1690	2	ADAPTER AS	
	58	1	165-3931	3	BOLT (3/8-16X1.75-IN)	

B-USE AS REQUIRED
C-CHANGE FROM PREVIOUS TYPE
Y-SEPARATE ILLUSTRATION

LUBRICATION SYSTEM

134-0975 FILTER GP-ENGINE OIL (contd.)

i02491437



REFER TO ALL ILLUSTRATIONS OF THIS GROUP FOR AUXILIARY VIEWS

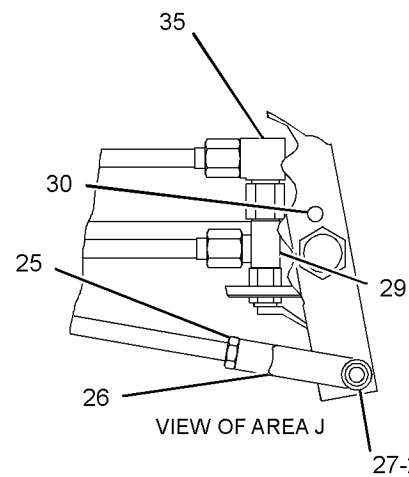
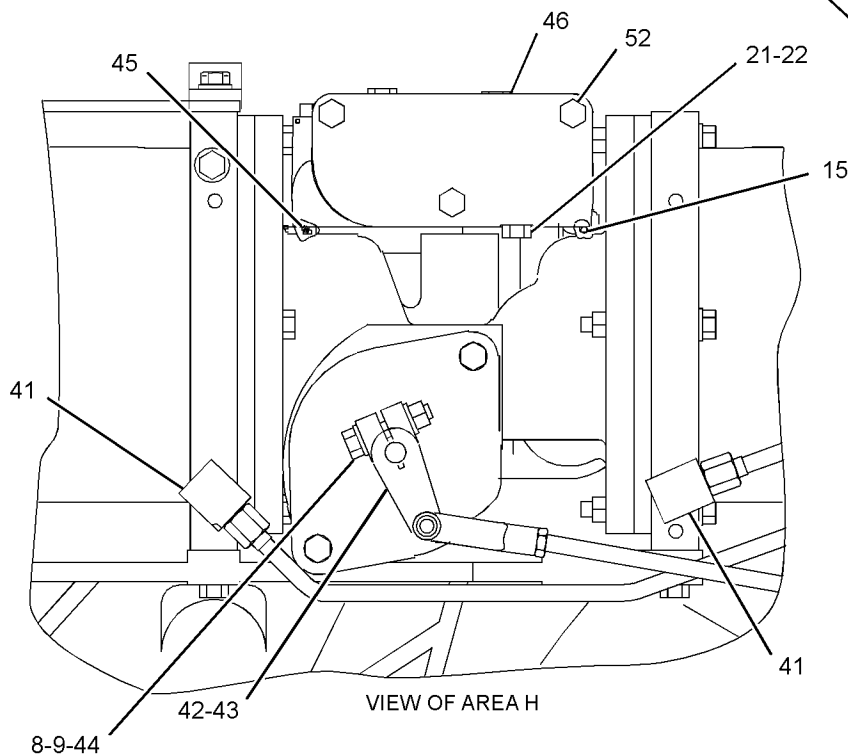
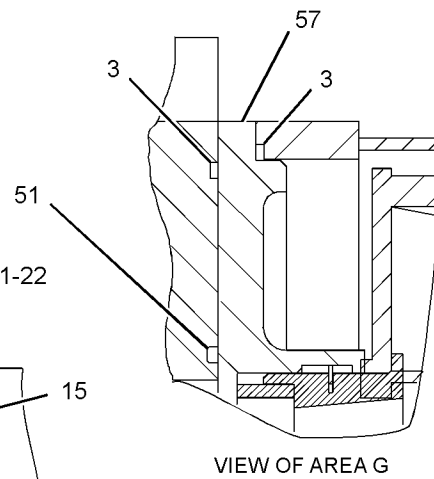
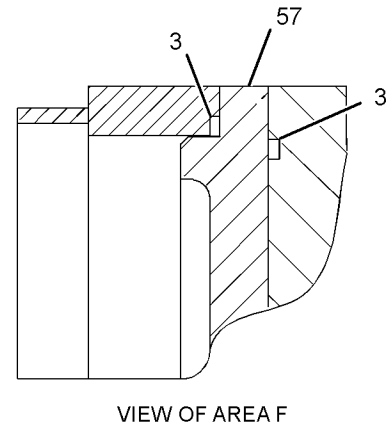
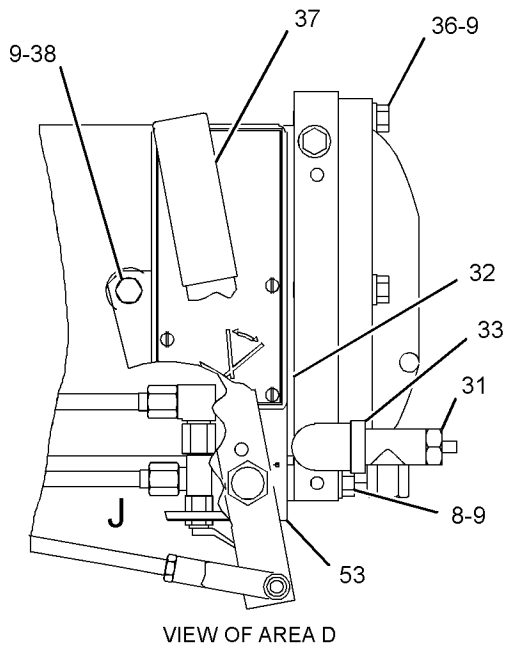
GRAPHIC #1

g01160482

LUBRICATION SYSTEM

134-0975 FILTER GP-ENGINE OIL (contd.)

i02491437



GRAPHIC #2

<END>

g01153320

LUBRICATION SYSTEM

130-8164 GAUGE GP-OIL FILTER PRESS DIFF

S/N: ZBA1-UP

AN ATTACHMENT

SMCS-1308, 7475

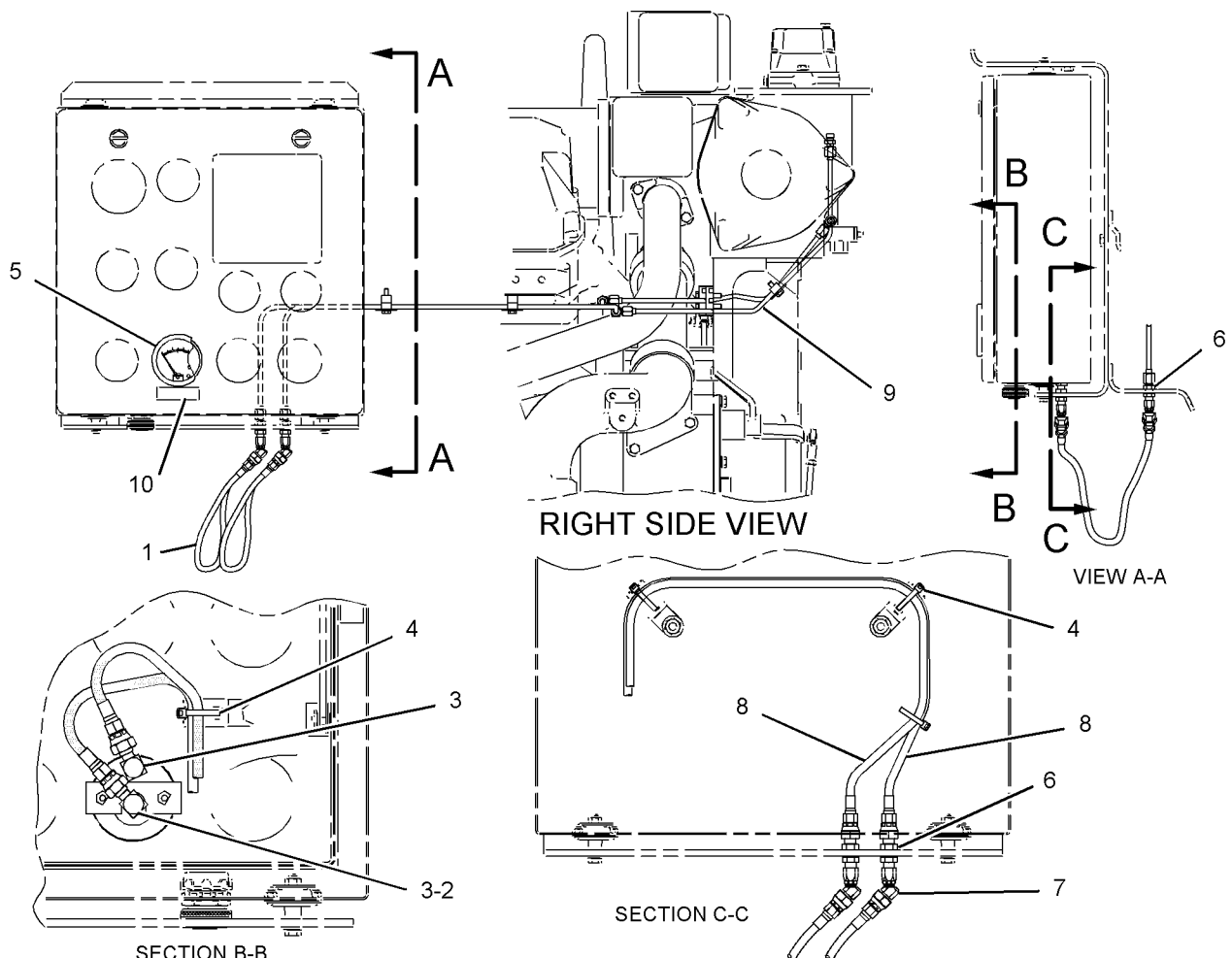
i02230836

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
I	1	1	153-4809	2	HOSE AS						
	2	1	3F-6166	1	EXTENSION						
	3	1	3S-1099	2	ELBOW-FLARED						
B	4	1	3S-2093	5	STRAP-CABLE						
	5	1	4W-0508	1	GAUGE-DIFFERENTIAL PRESSURE (OIL)						
		1	4B-2049	2	NUT (10-32-THD)						
		1	8F-1434	2	LOCKWASHER						
	6	1	5B-3254	4	NUT-JAM (7/16-20-THD)						
	7	1	7K-6462	4	ELBOW						
	8	1	119-8890	2	HOSE AS						
Y	9	1	130-8165	1	LINES GP-INSTRUMENT PANEL						1117
	10	1	3N-5989	1	FILM-INFORMATION (OIL FILTER PRESSURE DIFF)						

B-USE AS REQUIRED

I-REFER TO HYDRAULIC INFORMATION SYSTEM

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01075960

LUBRICATION SYSTEM

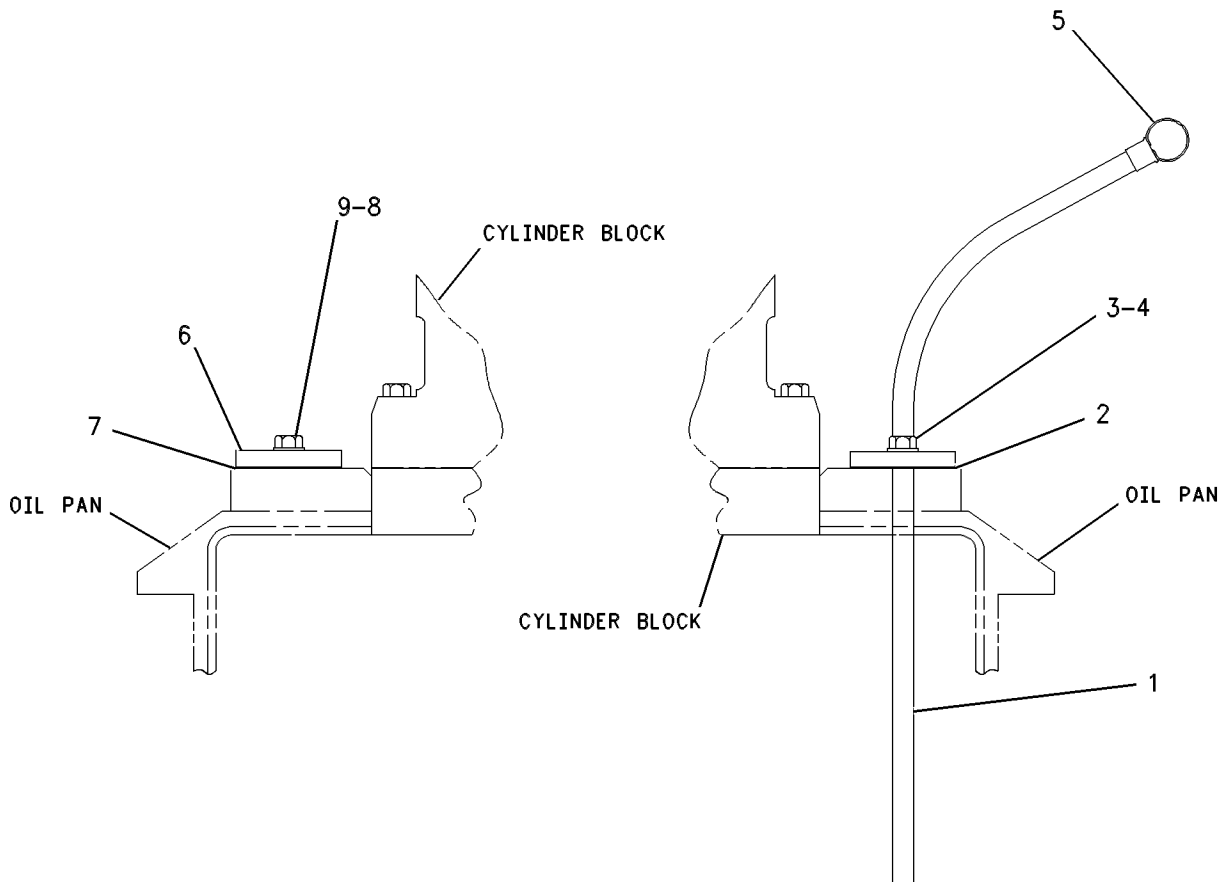
7C-6366 GAUGE GP-OIL LEVEL (DIPSTICK)

S/N: ZBA1-UP

SMCS-1326

i02449728

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-0467	1	TUBE AS-OIL LEVEL						
	2	1	9L-1480	1	GASKET						
	3	1	0S-1594	2	BOLT (3/8-16X1-IN)						
	4	1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	5	1	4P-3784	1	GAUGE AS-OIL LEVEL (DIPSTICK)						
B	6	1	4B-3140	1	COVER						
B	7	1	9L-1480	1	GASKET						
B	8	1	0S-1594	2	BOLT (3/8-16X1-IN)						
B	9	1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5-MM THK)						
B-USE AS REQUIRED											



GRAPHIC #1

<END>

g00614582

LUBRICATION SYSTEM

7C-9784 GAUGE GP-OIL LEVEL (DIPSTICK)-DEEP SUMP

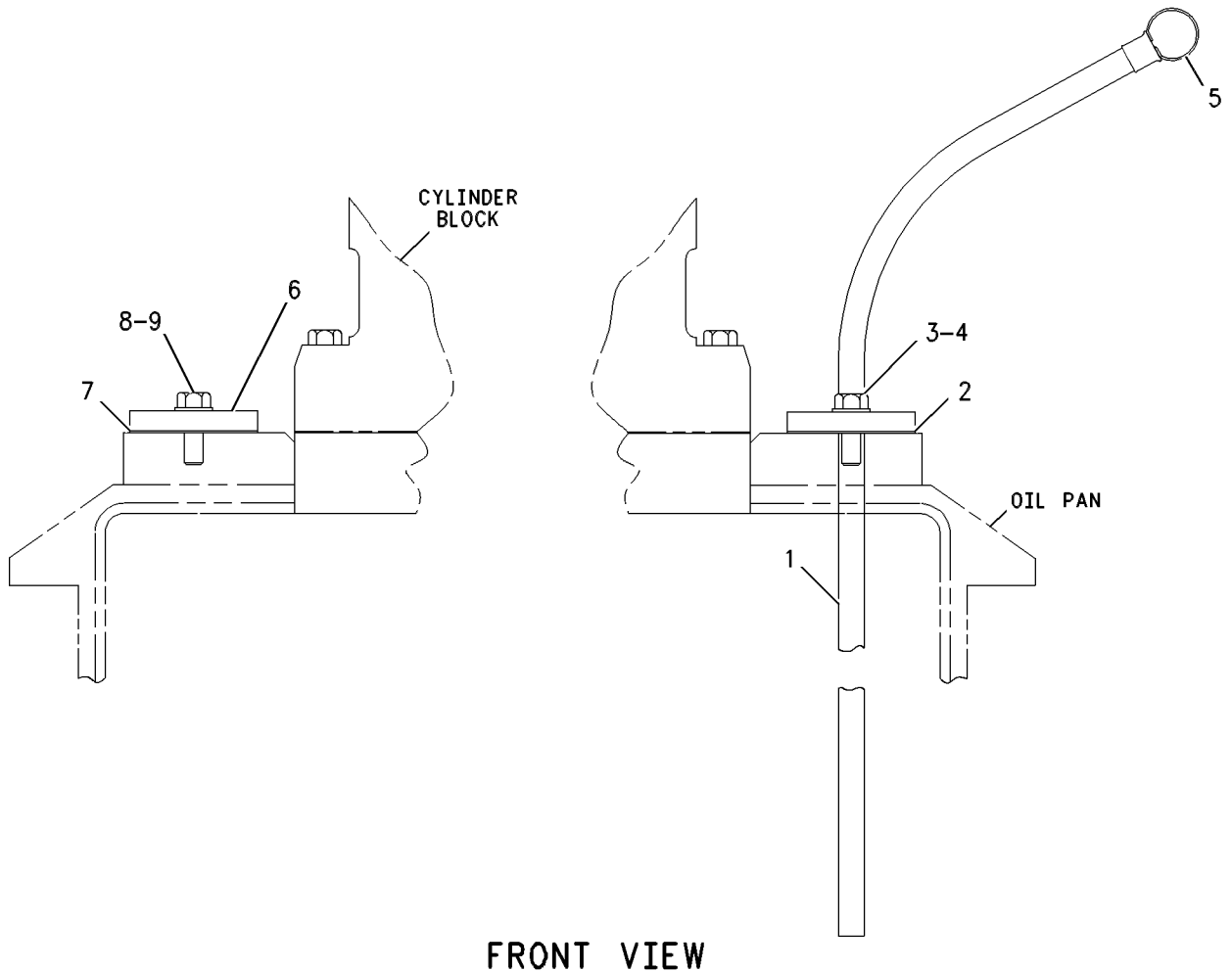
S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1326

i02458978

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-0467	1	TUBE AS-OIL LEVEL						
	2	1	9L-1480	1	GASKET						
	3	1	OS-1594	2	BOLT (3/8-16X1-IN)						
	4	1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	5	1	7C-9786	1	GAUGE AS-OIL LEVEL (DIPSTICK) (DEEP SUMP)						
B	6	1	4B-3140	1	COVER						
B	7	1	9L-1480	1	GASKET						
B	8	1	OS-1594	2	BOLT (3/8-16X1-IN)						
B	9	1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5-MM THK)						

B-USE AS REQUIRED



GRAPHIC #1

<END>

g00618660

LUBRICATION SYSTEM

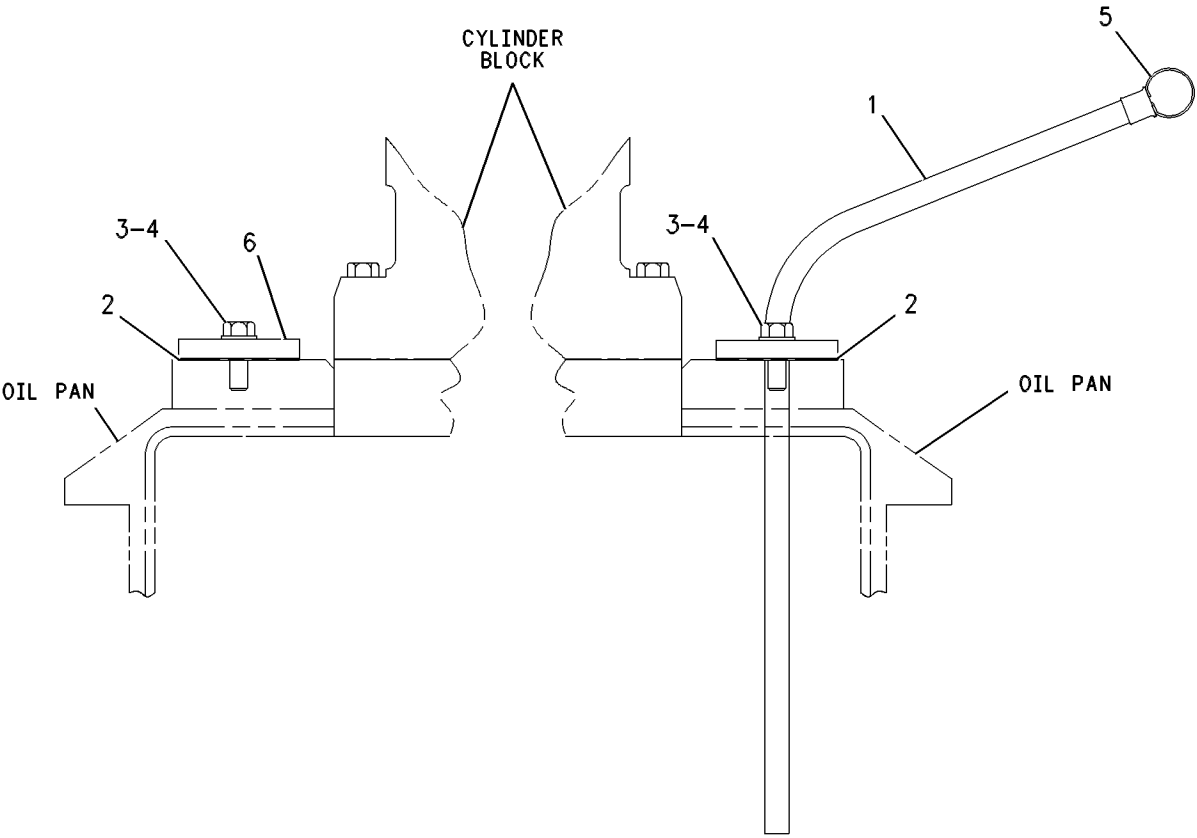
7E - 6342 GAUGE GP - OIL LEVEL (DIPSTICK)

S/N: ZBA1-UP

SMCS - 1326

i02224383

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E - 6341	1	TUBE AS - OIL LEVEL						
	2	1	9L - 1480	2	GASKET						
	3	1	0S - 1594	4	BOLT (3/8 - 16X1 - IN)						
	4	1	5M - 2894	4	WASHER - HARD (10.2X18.5X2.5 - MM THK)						
	5	1	4P - 3784	1	GAUGE AS - OIL LEVEL (DIPSTICK)						
	6	1	4B - 3140	1	COVER						



GRAPHIC #1

<END>

g00630042

LUBRICATION SYSTEM

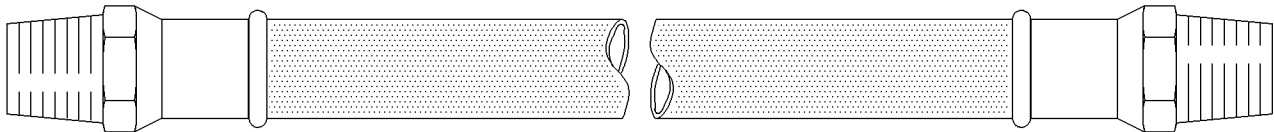
3N-4513 HOSE AS*I

S/N: ZBA1-UP
1830-MM LENGTH
AN ATTACHMENT

SMCS-1307

i01305106

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



GRAPHIC #1

<END>

g00691641

LUBRICATION SYSTEM

3N-4868 HOSE AS*I

S/N: ZBA1-UP

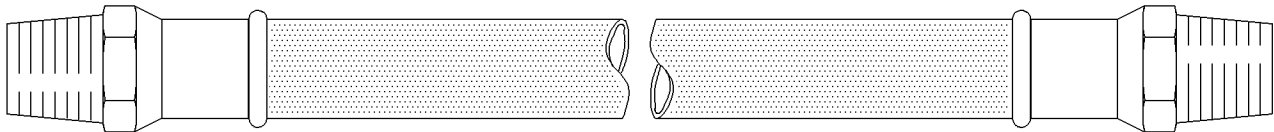
915-MM LENGTH

AN ATTACHMENT

SMCS-1307

i01305109

NOTE	REF	GRAPHIC	PART NUMBER	QTY	PART NAME						SEE PAGE
	NO	REF			1	2	3	4	5	6 (PRODUCT LEVEL)	
	(NO SERVICED PARTS)										



GRAPHIC #1

<END>

g00691548

LUBRICATION SYSTEM

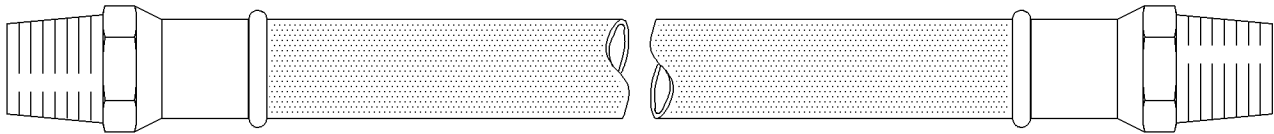
3N-4869 HOSE AS*I

S/N: ZBA1-UP
610-MM LENGTH
AN ATTACHMENT

SMCS-1307

i01318430

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



GRAPHIC #1

<END>

g00691548

LUBRICATION SYSTEM

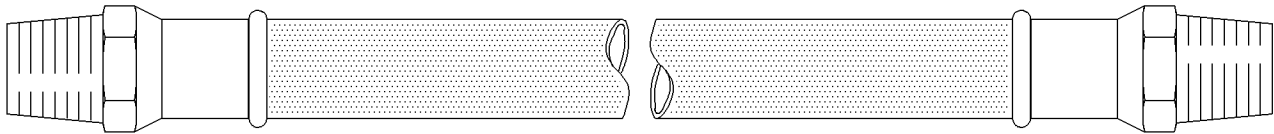
8N-0856 HOSE AS*I

S/N: ZBA1-UP
1653-MM LENGTH
AN ATTACHMENT

SMCS-1307

i01971541

NOTE	REF	GRAPHIC	PART NUMBER	QTY	PART NAME						SEE PAGE
	NO	REF			1	2	3	4	5	6 (PRODUCT LEVEL)	
	(NO SERVICED PARTS)										



GRAPHIC #1

<END>

g00691548

LUBRICATION SYSTEM

235 - 1780 HOSE AS

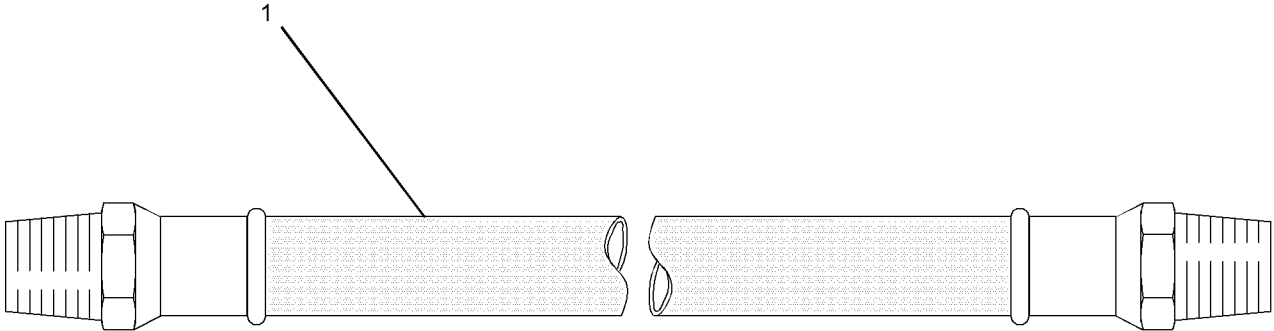
S/N: ZBA1-UP

FOR USE WITH LEFT HAND MOUNTED SUMP PUMPS
AN ATTACHMENT

SMCS - 1307

i02240326

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
I	1	1	3N-4510	1	HOSE AS (660-MM)						
I-REFER TO HYDRAULIC INFORMATION SYSTEM											



GRAPHIC #1

<END>

g01031960

LUBRICATION SYSTEM

235 - 4431 HOSE AS

S/N: ZBA1-UP

915-MM LENGTH

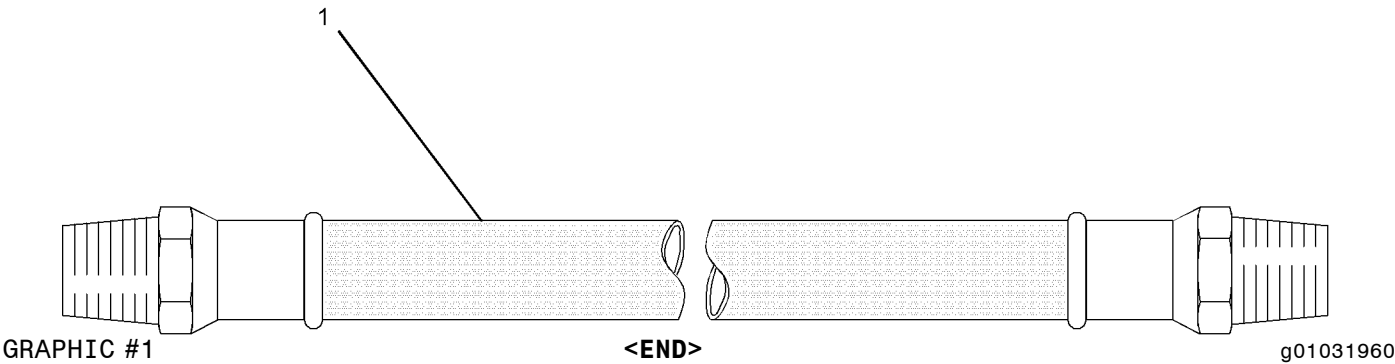
FOR USE WITH LH MOUNTED SUMP PUMPS

AN ATTACHMENT

SMCS - 1307

i02240325

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
I	1	1	3N-4868	1	HOSE AS (915-MM)						
I-REFER TO HYDRAULIC INFORMATION SYSTEM											



LUBRICATION SYSTEM

235 - 4434 HOSE AS

S/N: ZBA1-UP

610-MM LENGTH

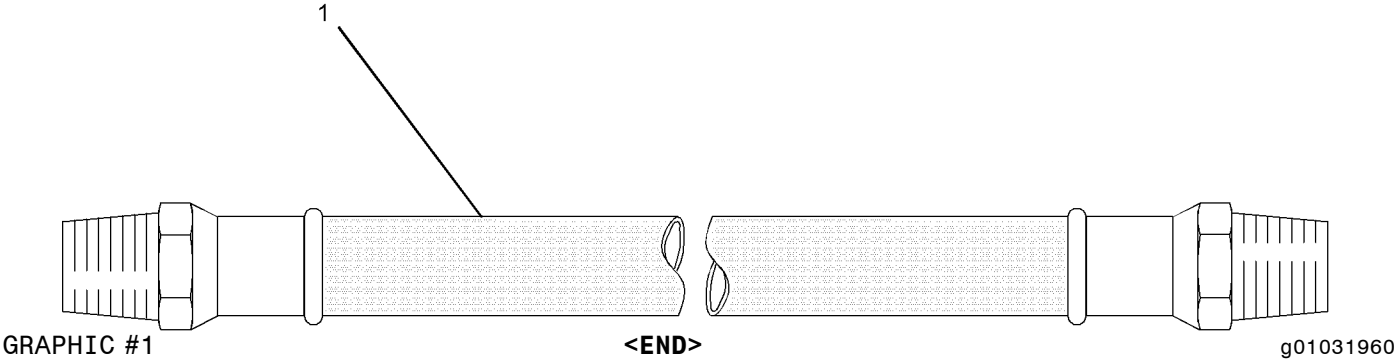
FOR USE WITH LH MOUNTED SUMP PUMPS

AN ATTACHMENT

SMCS - 1307

i02240324

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
I	1	1	3N-4869	1	HOSE AS (610-MM)						
I-REFER TO HYDRAULIC INFORMATION SYSTEM											



LUBRICATION SYSTEM

114-4358 LINES GP-ENGINE OIL

S/N: ZBA1-UP

PART OF 120-4107, 120-6124, 129-8220 CONVERSION AR
ALSO AN ATTACHMENT

SMCS-1307

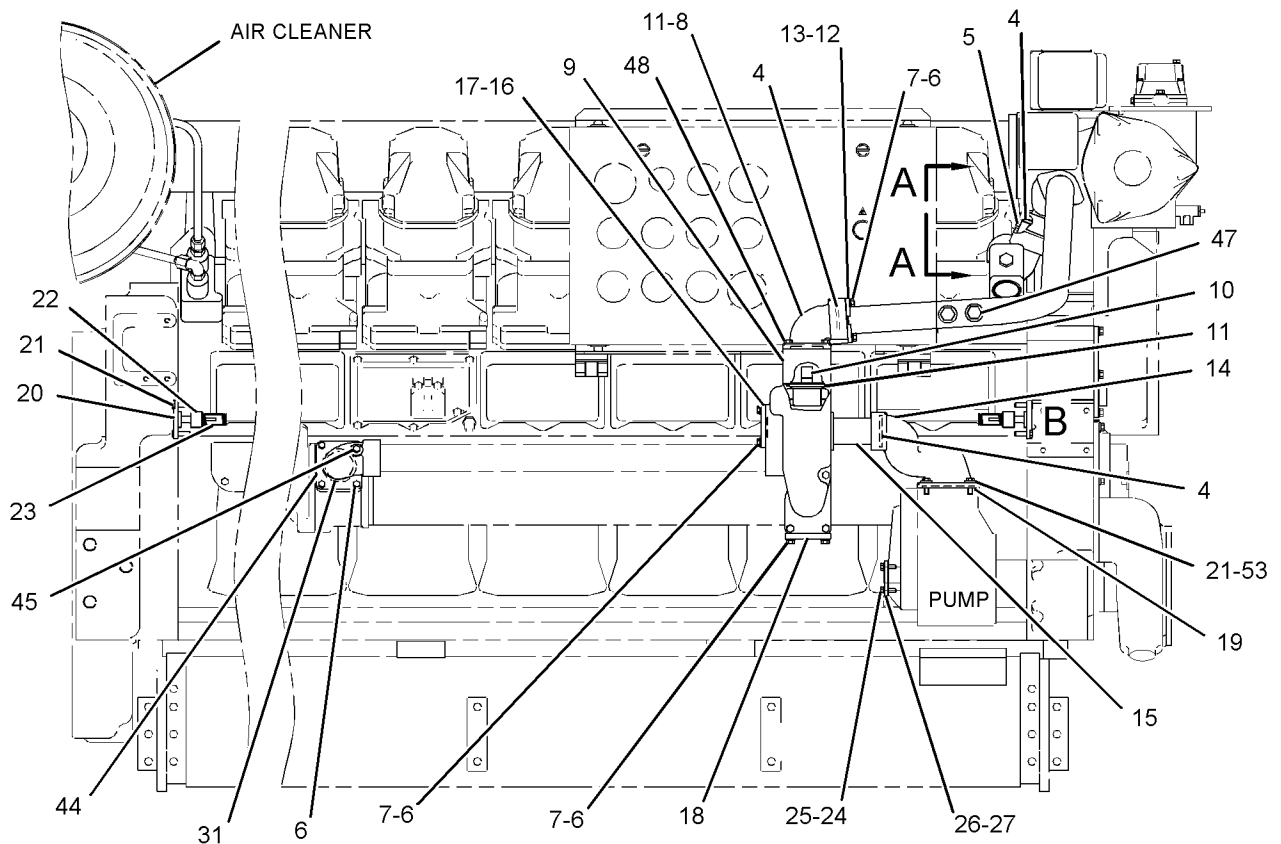
i02869227

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-6602	1	CLIP (SLOT)						
	2	1	0S-1590	2	BOLT (3/8-16X2-IN)						
	3	1	0L-1352	1	BOLT (3/8-16X3.25-IN)						
	4	1	109-2332	6	SEAL-O-RING						
	5	1	4W-4677	1	TUBE						
	6	1	0S-1594	15	BOLT (3/8-16X1-IN)						
	7	1	5M-2894	10	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	8	1	9Y-3013	1	ELBOW						
	9	1	114-9414	1	ADAPTER						
	10	1	248-5513	1	REGULATOR-TEMPERATURE (92-DEG C) (OIL)						
	11	1	6V-5051	2	SEAL-O-RING						
	12	1	8N-1991	2	RING-RETAINING						
	13	1	8N-1992	4	RETAINER						
	14	1	7N-5416	1	ELBOW						
	15	1	1N-3333	1	TUBE						
	16	1	4B-3140	1	COVER						
	17	1	5P-5846	1	SEAL-O-RING						
	18	1	4W-5597	1	COVER						
	19	1	6V-3908	1	SEAL-O-RING						
	20	1	8N-2929	2	COVER						
	21	1	0S-1588	10	BOLT (3/8-16X1.25-IN)						
	22	1	7N-7697	2	PLUNGER AS						
					(EACH INCLUDES)						
		1	7M-1808	1	DOWEL						
	23	1	6B-9202	2	SPRING						
	24	1	0S-1618	4	BOLT (5/16-18X1-IN)						
	25	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)						
	26	1	5R-1036	1	COVER						
	27	1	1Y-7578	1	GASKET-COVER						
	28	1	7E-6603	1	CLIP (TAB)						
	29	1	5F-4899	1	BOLT (3/8-16X5.5-IN)						
	30	1	9Y-3012	1	HOUSING (REGULATOR)						
	31	1	3P-0655	3	SEAL-O-RING						
	32	1	2W-7226	1	ADAPTER						
	33	1	0L-1143	4	BOLT (3/8-16X2.5-IN)						
	34	1	8T-6762	2	PLUG-PIPE						
	35	1	114-4357	1	TUBE AS						
	36	1	107-7348	1	ADAPTER						
	37	1	0T-0065	4	BOLT (3/8-16X3.5-IN)						
	38	1	9S-4190	1	PLUG-O-RING						
	39	1	6V-4589	1	SEAL-O-RING						
	40	1	4W-4313	1	ADAPTER						
	41	1	5P-4892	2	SEAL-O-RING						
	42	1	2W-1053	1	PLUG						
	43	1	5P-7817	1	SEAL-O-RING						
	44	1	7N-5413	1	ELBOW						
	45	1	8T-6765	1	PLUG-PIPE						
	46	1	061-9456	4	SEAL-O-RING						
	47	1	7W-6492	2	PLUG-PIPE						
	48	1	8S-9191	4	BOLT (3/8-16X4-IN)						
	49	1	9L-9132	2	WASHER (10.2X25.5X2.5-MM THK)						
	50	1	9Y-6897	1	BRACKET						
	51	1	0T-0573	1	BOLT (3/8-16X2.75-IN)						
	52	1	6B-6205	1	SPACER (0.438X0.875X1.281-IN THK)						
	53	1	6B-0933	4	SPACER (10.31X19.05X6.35-MM THK)						

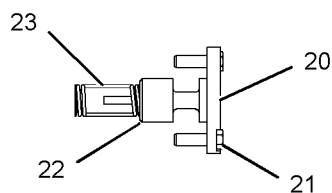
LUBRICATION SYSTEM

114-4358 LINES GP-ENGINE OIL (contd.)

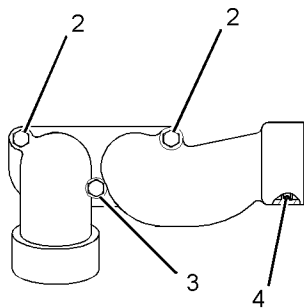
i02869227



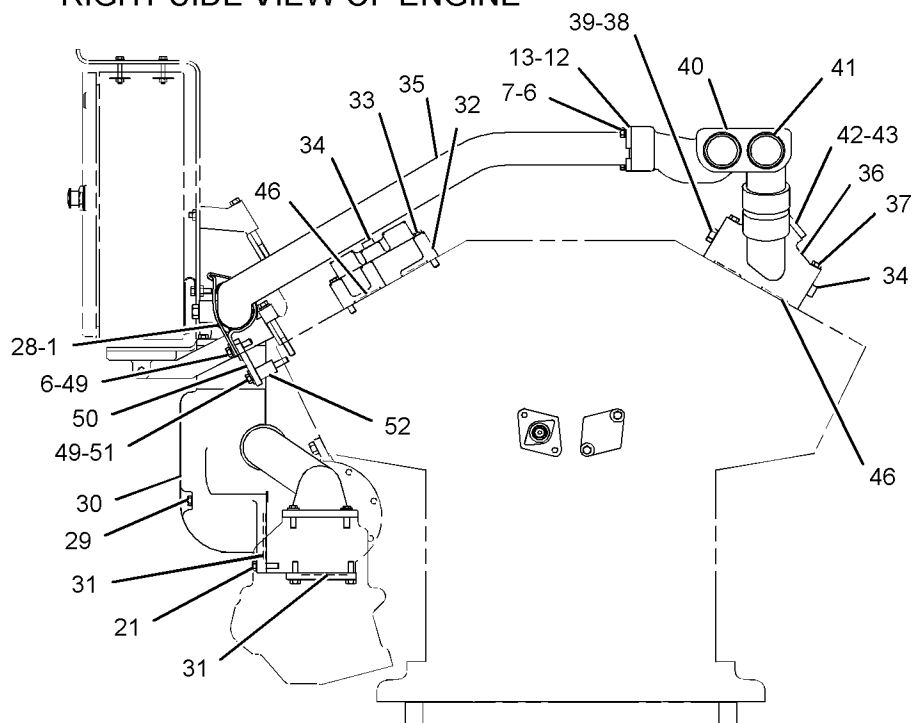
RIGHT SIDE VIEW OF ENGINE



VIEW OF AREA B



VIEW A-A



FRONT VIEW OF ENGINE

GRAPHIC #1

<END>

g01429016

LUBRICATION SYSTEM

134-3749 LINES GP-ENGINE OIL

S/N: ZBA1-UP

SMCS-1307

i02867952

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	6V-0268	1	CLIP (SLOT)	
	2	1	0S-1590	2	BOLT (3/8-16X2-IN)	
	3	1	0L-1352	1	BOLT (3/8-16X3.25-IN)	
	4	1	4W-4677	1	TUBE	
	5	1	0S-1594	14	BOLT (3/8-16X1-IN)	
	6	1	5M-2894	15	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	7	1	7N-5416	1	ELBOW	
	8	1	1N-3333	1	TUBE	
	9	1	4B-3140	1	COVER	
	10	1	5P-5846	1	SEAL-O-RING	
	11	1	4W-5597	1	COVER	
	12	1	6V-3908	1	SEAL-O-RING	
	13	1	8N-2929	2	COVER	
	14	1	0S-1588	10	BOLT (3/8-16X1.25-IN)	
	15	1	7N-7697	2	PLUNGER AS	
					(EACH INCLUDES)	
		1	7M-1808	1	DOWEL	
	16	1	6B-9202	2	SPRING	
	17	1	6V-0267	1	CLIP (TAB)	
	18	1	5F-4899	1	BOLT (3/8-16X5.5-IN)	
	19	1	3P-0655	3	SEAL-O-RING	
	20	1	2W-7226	1	ADAPTER	
	21	1	0L-1143	4	BOLT (3/8-16X2.5-IN)	
	22	1	4W-6066	1	TUBE	
	23	1	0T-0065	4	BOLT (3/8-16X3.5-IN)	
	24	1	9S-4190	1	PLUG-O-RING	
	25	1	6V-4589	1	SEAL-O-RING	
	26	1	4W-4313	1	ADAPTER	
	27	1	5P-4892	3	SEAL-O-RING	
	28	1	2W-1053	1	PLUG	
	29	1	5P-7817	1	SEAL-O-RING	
	30	1	7N-5413	1	ELBOW	
	31	1	8T-6765	1	PLUG-PIPE	
	32	1	061-9456	4	SEAL-O-RING	
	33	1	8T-6762	2	PLUG-PIPE	
	34	1	7C-9217	1	ELBOW	
	35	1	3B-1915	1	BOLT (3/8-16X1.375-IN)	
	36	1	4W-5596	1	COVER	
	37	1	3H-7131	1	LUG	
	38	1	0S-1591	2	BOLT (3/8-16X1.5-IN)	
	39	1	109-2332	6	SEAL-O-RING	
	40	1	111-3820	2	RING-RETAINING	
	41	1	6V-5048	1	SEAL-O-RING	
	42	1	8C-3446	1	VALVE-FLUID SAMPLING	
	43	1	107-7348	1	ADAPTER	
	44	1	0S-1571	2	BOLT (3/8-16X1.75-IN)	
	46	1	100-8075	1	CLAMP AS	
	47	1	8N-1992	2	RETAINER	
	48	1	8N-1991	1	RING-RETAINING	
	49	1	2W-1635	1	SPRING	
	50	1	2W-1969	1	VALVE-BYPASS	
	51	1	5R-1036	1	COVER	
	52	1	1Y-7578	1	GASKET-COVER	
	53	1	0S-1618	4	BOLT (5/16-18X1-IN)	
	54	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)	
	55	1	8C-3445	1	CAP-DUST	
	56	1	264-0450	1	CLAMP AS	

LUBRICATION SYSTEM

134-3749 LINES GP-ENGINE OIL (contd.)

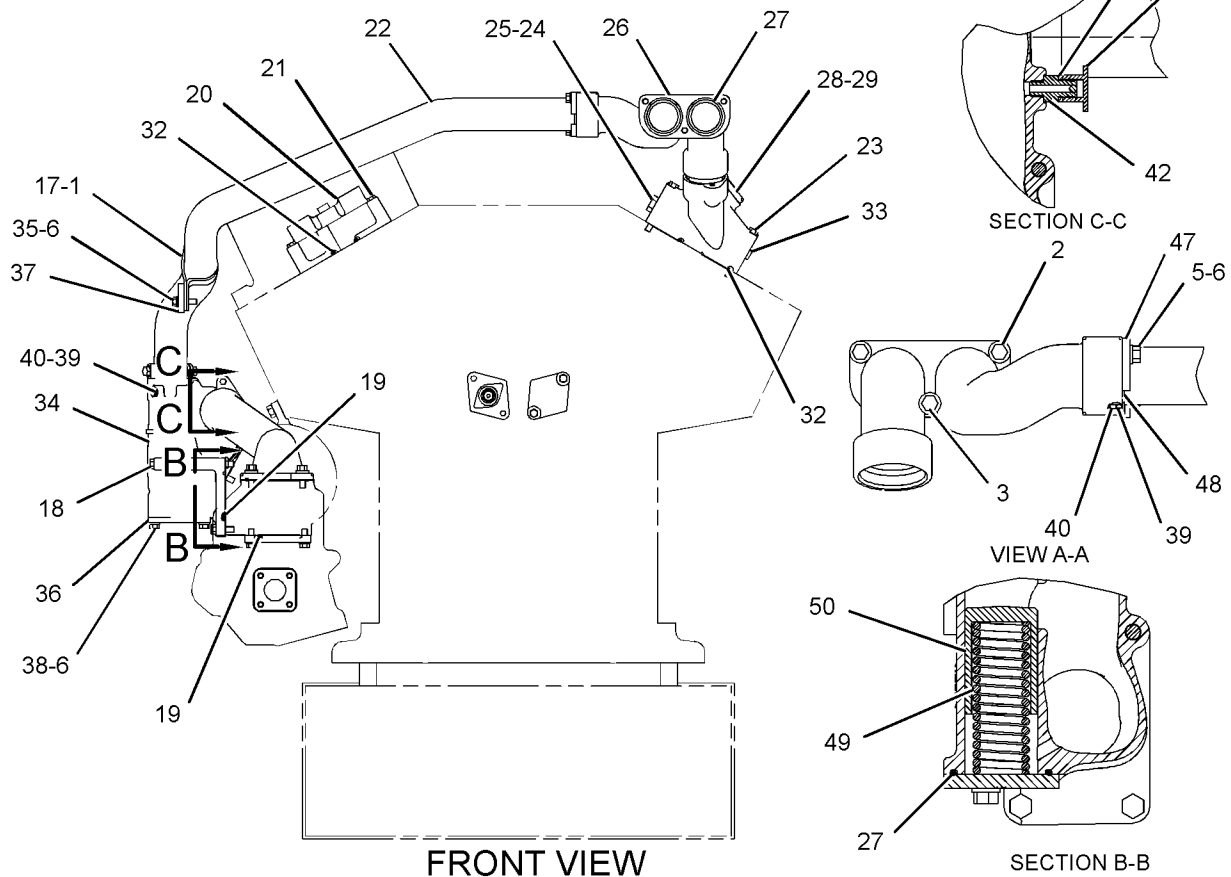
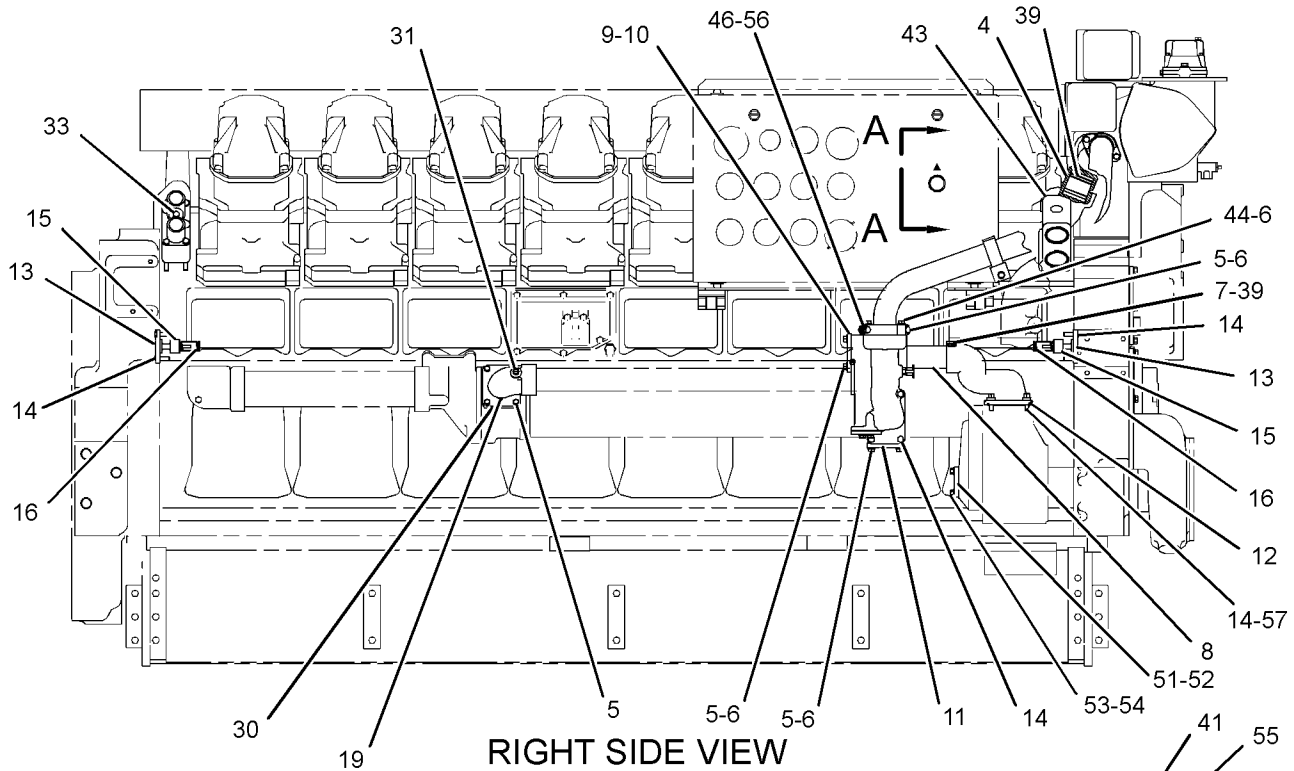
i02867952

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	57	1	6B-0933	4	SPACER (10.31X19.05X6.35-MM THK)						

LUBRICATION SYSTEM

134-3749 LINES GP-ENGINE OIL (contd.)

i02867952



GRAPHIC #1

<END>

g01428580

LUBRICATION SYSTEM

137-6881 LINES GP-ENGINE OIL

S/N: ZBA1-UP

SMCS-1307

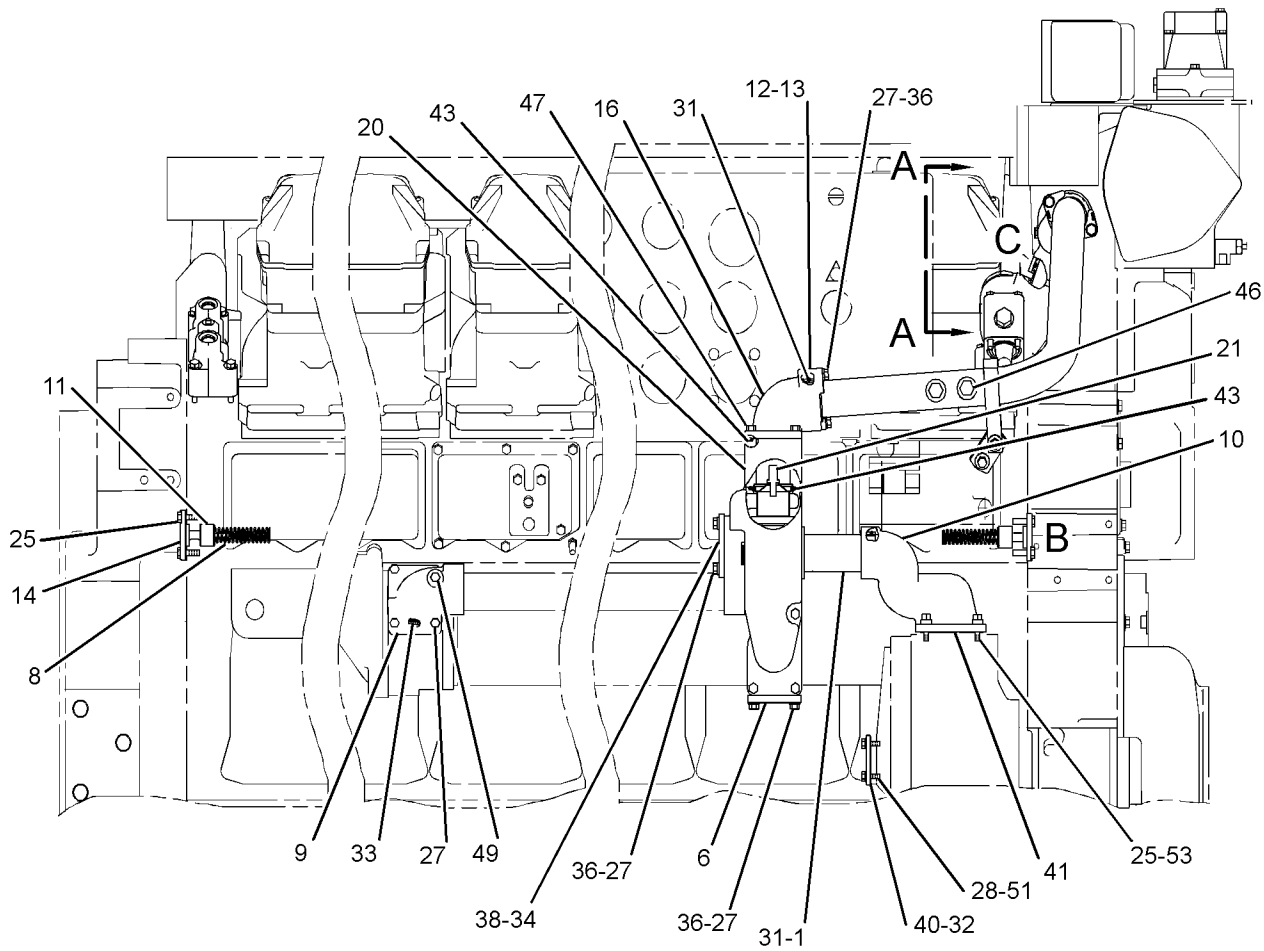
i02833609

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1N-3333	1	TUBE						
	2	2	2W-1053	1	PLUG						
	3	2	2W-7226	1	ADAPTER						
	4	2	4W-4313	1	ADAPTER						
	5	2	4W-4677	1	TUBE						
	6	1	4W-5597	1	COVER						
	7	2	6B-6205	1	SPACER (0.438X0.875X1.281-IN THK)						
	8	1,2	6B-9202	2	SPRING						
	9	1	7N-5413	1	ELBOW						
	10	1	7N-5416	1	ELBOW						
	11	1,2	7N-7697	2	PLUNGER AS						
					(EACH INCLUDES)						
		1,2	7M-1808	1	DOWEL						
	12	1,2	8N-1991	2	RING-RETAINING						
	13	1,2	8N-1992	4	RETAINER						
	14	1,2	8N-2929	2	COVER						
	15	2	9Y-3012	1	HOUSING (REGULATOR)						
	16	1	9Y-3013	1	ELBOW						
	17	2	9Y-6897	1	BRACKET						
	18	2	107-7348	1	ADAPTER						
	19	2	114-4357	1	TUBE AS						
	20	1	114-9414	1	ADAPTER						
	21	1	120-9453	1	REGULATOR-TEMPERATURE (85-DEG C) (OIL)						
	22	2	061-9456	4	SEAL-O-RING						
	23	2	0L-1143	4	BOLT (3/8-16X2.5-IN)						
	24	2	0L-1352	1	BOLT (3/8-16X3.25-IN)						
	25	1,2	0S-1588	10	BOLT (3/8-16X1.25-IN)						
	26	2	0S-1590	2	BOLT (3/8-16X2-IN)						
	27	1,2	0S-1594	15	BOLT (3/8-16X1-IN)						
	28	1	0S-1618	4	BOLT (5/16-18X1-IN)						
	29	2	0T-0065	4	BOLT (3/8-16X3.5-IN)						
	30	2	0T-0573	1	BOLT (3/8-16X2.75-IN)						
	31	1,2	109-2332	6	SEAL-O-RING						
	32	1	1Y-7578	1	GASKET-COVER						
	33	1,2	3P-0655	3	SEAL-O-RING						
	34	1	4B-3140	1	COVER						
	35	2	5F-4899	1	BOLT (3/8-16X5.5-IN)						
	36	1,2	5M-2894	10	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	37	2	5P-4892	2	SEAL-O-RING						
	38	1	5P-5846	1	SEAL-O-RING						
	39	2	5P-7817	1	SEAL-O-RING						
	40	1	5R-1036	1	COVER						
	41	1	6V-3908	1	SEAL-O-RING						
	42	2	6V-4589	1	SEAL-O-RING						
	43	1	6V-5051	2	SEAL-O-RING						
	44	2	7E-6602	1	CLIP (SLOT)						
	45	2	7E-6603	1	CLIP (TAB)						
	46	1	7W-6492	2	PLUG-PIPE						
	47	1	8S-9191	4	BOLT (3/8-16X4-IN)						
	48	2	8T-6762	2	PLUG-PIPE						
	49	1	8T-6765	1	PLUG-PIPE						
	50	2	9L-9132	2	WASHER (10.2X25.5X2.5-MM THK)						
	51	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)						
	52	2	9S-4190	1	PLUG-O-RING						
	53	1	6B-0933	4	SPACER (10.31X19.05X6.35-MM THK)						

LUBRICATION SYSTEM

137-6881 LINES GP-ENGINE OIL (contd.)

i02833609



RIGHT SIDE VIEW

REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS

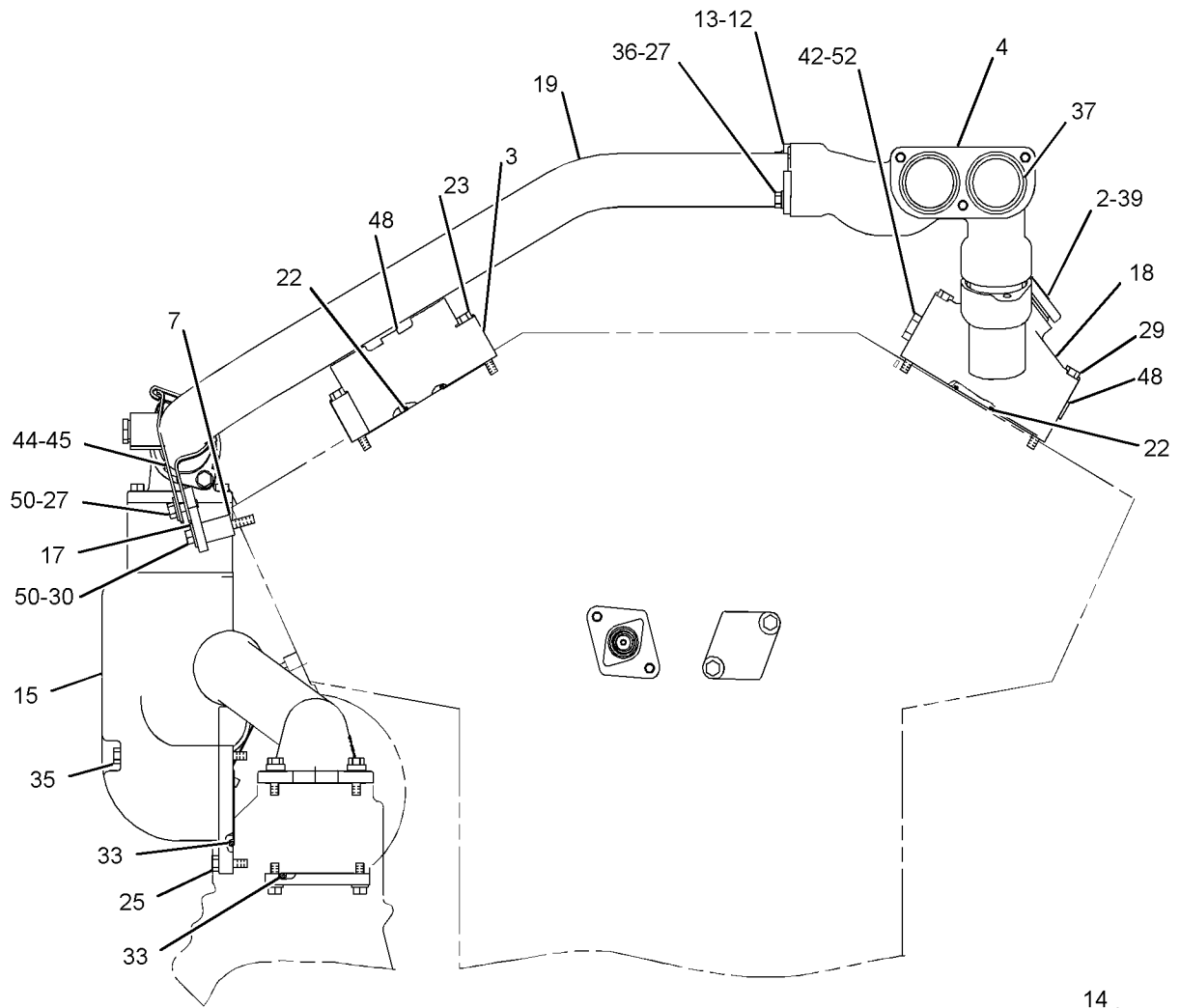
GRAPHIC #1

g01244545

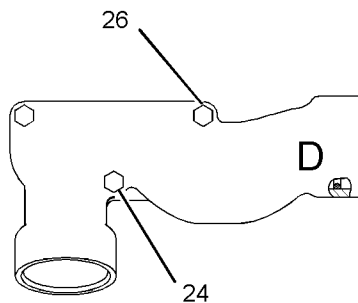
LUBRICATION SYSTEM

137-6881 LINES GP-ENGINE OIL (contd.)

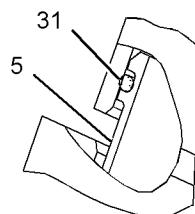
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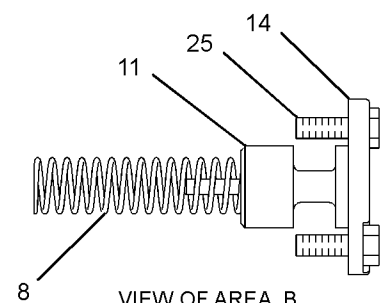
FRONT VIEW



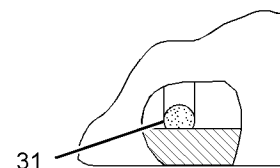
VIEW A-A



VIEW OF AREA C



VIEW OF AREA B



VIEW OF AREA D

GRAPHIC #2

<END>

g01244546

LUBRICATION SYSTEM

1W-3941 LINES GP-OIL SUPPLY-PRELUBRICATION

S/N: ZBA1-UP

FOR USE WITH SHALLOW OIL PAN, 1W-4674-PAGE 220
AN ATTACHMENT

SMCS-1307

i02230851

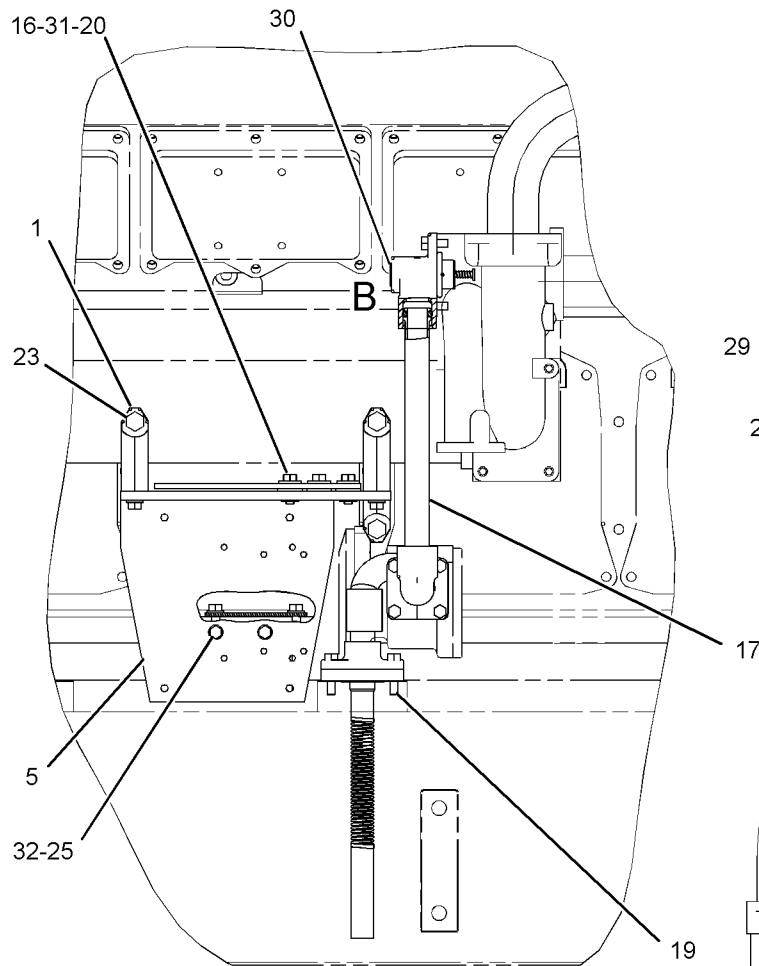
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1N-3872	2	SUPPORT						
	2	1	1W-3942	1	ELBOW						
	3	1	1W-3943	1	COUPLING						
	4	1	1W-3944	1	FLANGE						
	5	1	1W-4253	1	BRACKET AS-SUPPORT						
	6	1	1W-4257	1	BRACKET AS						
	7	1	1W-8188	1	ELBOW						
	8	1	2G-6303	1	SEAL						
	9	1	2G-6304	1	STRAINER AS (ENGINE OIL)						
C	10	1	2W-0694	1	ELBOW AS-VALVE						
	11	1	9B-0701	2	SPRING						
		1	7L-0811	1	DOWEL						
	12	1	9L-0672	1	VALVE-CHECK						
	13	1	1P-5274	1	PIN-VALVE SPRING						
	14	1	9H-2367	1	SPRING-VALVE						
C	15	1	2W-3406	1	SUPPORT-SWITCH						
C	16	1	6N-8744	3	MOUNT						
	17	1	7N-6460	1	TUBE						
C	18	1	0L-1351	2	BOLT (3/8-16X0.875-IN)						
	19	1	0S-1591	2	BOLT (3/8-16X1.5-IN)						
C	20	1	0S-1594	7	BOLT (3/8-16X1-IN)						
	21	1	0S-1608	2	BOLT (3/8-16X3.75-IN)						
	22	1	0S-1617	8	BOLT (5/16-18X0.75-IN)						
	23	1	1A-5822	4	BOLT (1/2-13X2.75-IN)						
	24	1	1W-4821	1	HOSE AS						
	25	1	2B-2695	2	BOLT (5/16-18X0.875-IN)						
C	26	1	5M-2894	6	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	27	1	5P-5846	2	SEAL-O-RING						
	28	1	5P-9890	4	SEAL-O-RING						
	29	1	6V-5100	2	SEAL-O-RING						
	30	1	7X-7731	1	PLUG-PIPE						
C	31	1	9L-9132	3	WASHER (10.2X25.5X2.5-MM THK)						
	32	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						

C- CHANGE FROM PREVIOUS TYPE

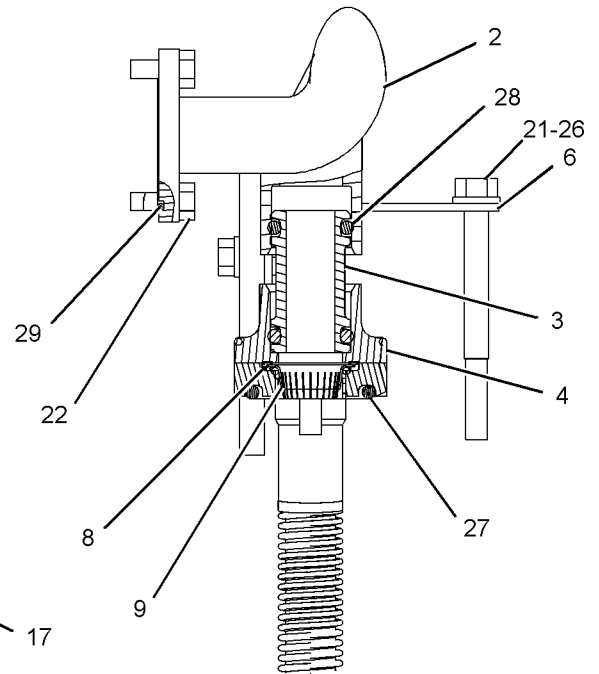
LUBRICATION SYSTEM

1W-3941 LINES GP-OIL SUPPLY (contd.)

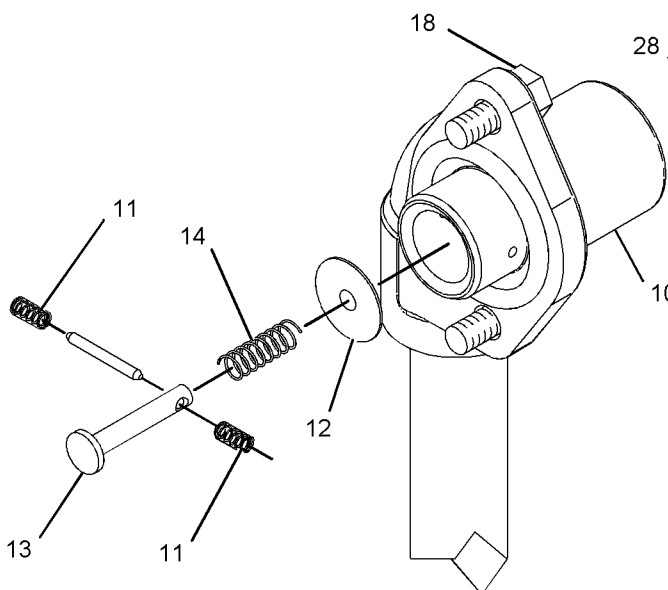
i02230851



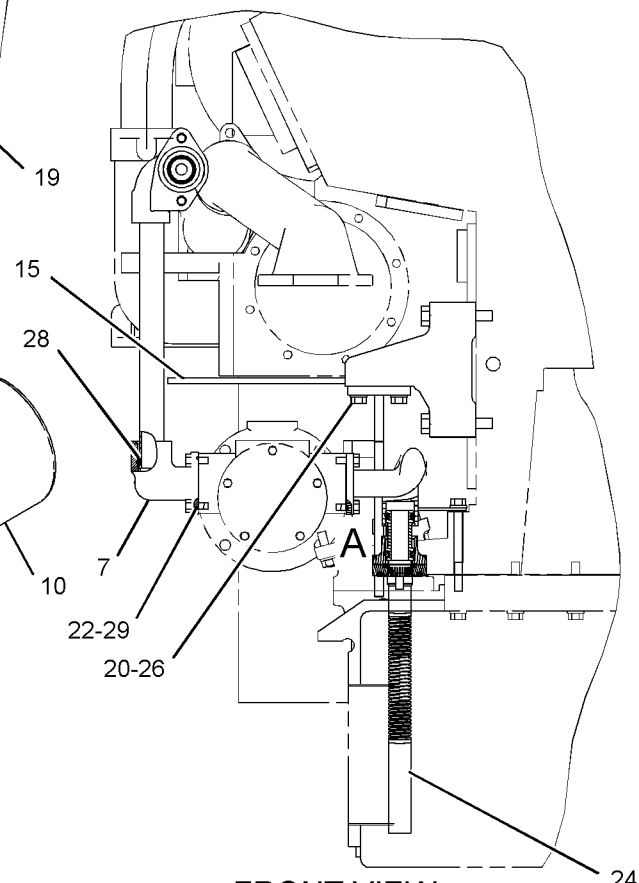
RIGHT SIDE VIEW



VIEW OF AREA A



EXPLODED VIEW OF AREA B



FRONT VIEW

GRAPHIC #1

<END>

g01119466

LUBRICATION SYSTEM

5N-6241 LINES GP-PRELUBRICATION-RH

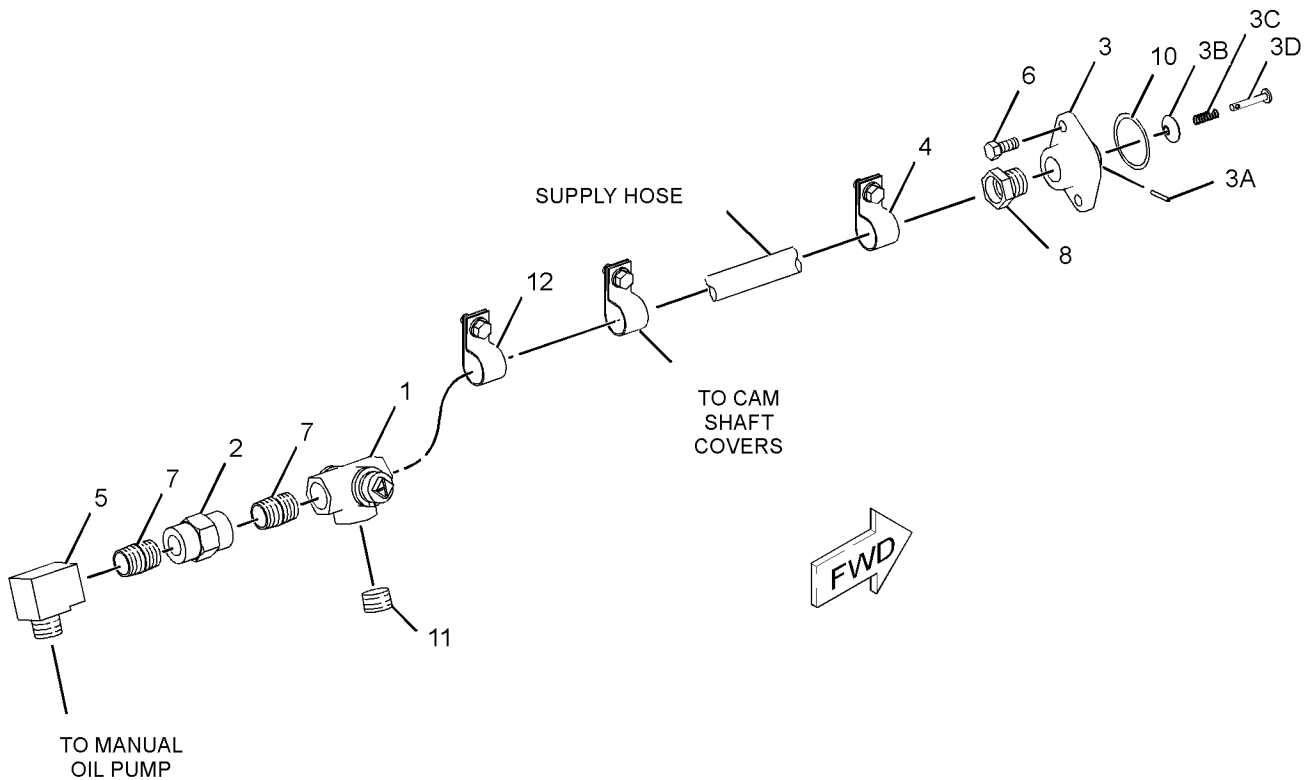
S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1307, 1319

i02406091

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	3N-7057	1	VALVE AS (3-WAY) (OIL SUPPLY)	
	2	1	6B-1667	1	UNION	
	3	1	7N-6570	1	ADAPTER AS	
	3A	1	3H-3433	1	PIN-SPRING	
	3B	1	9L-0672	1	VALVE-CHECK	
	3C	1	9H-2367	1	SPRING-VALVE	
	3D	1	1P-5274	1	PIN-VALVE SPRING	
	4	1	134-5645	1	CLIP	
	5	1	003-9163	1	ELBOW	
	6	1	0L-1351	2	BOLT (3/8-16X0.875-IN)	
	7	1	3B-7745	2	FITTING	
	8	1	5F-6371	1	CONNECTOR	
	10	1	5P-5846	1	SEAL-O-RING	
	11	1	7X-7731	1	PLUG-PIPE	
B	12	1	134-5645	2	CLIP	

B-USE AS REQUIRED



GRAPHIC #1

<END>

g01211509

LUBRICATION SYSTEM

113-4239 LINES GP-PRELUBRICATION

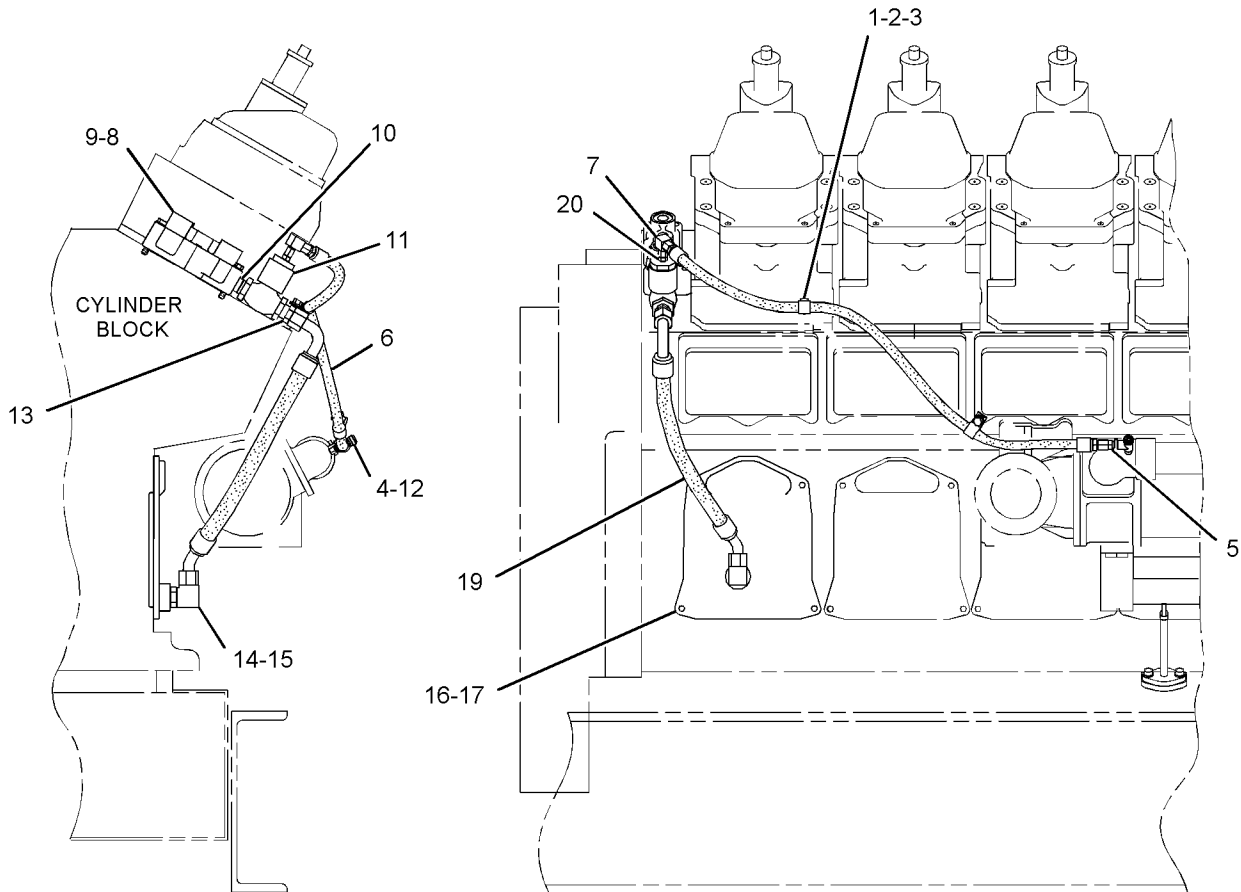
S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1307, 1319

i02556544

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	0S-0509	2	BOLT (3/8-16X0.75-IN)						
	2	1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	3	1	8M-2773	2	CLIP						
	4	1	2D-7325	1	TEE-PIPE						
	5	1	032-1267	1	CONNECTOR						
I	6	1	5N-2367	1	HOSE AS						
	7	1	5P-9464	1	ELBOW (SWIVEL)						
	8	1	113-8148	1	ADAPTER (TURBO OIL)						
	9	1	061-9456	2	SEAL-O-RING						
	10	1	3B-7745	1	FITTING						
	11	1	113-8147	1	VALVE						
	12	1	8T-6763	1	PLUG-PIPE						
	13	1	4S-6678	1	CONNECTOR						
	14	1	030-7950	1	ELBOW						
	15	1	3D-2824	1	SEAL-O-RING						
	16	1	208-2363	1	SEAL						
	17	1	113-8149	1	COVER AS (CYLINDER BLOCK)						
I	19	1	210-6619	1	HOSE AS						
	20	1	4S-6399	1	CONNECTOR						

I-REFER TO HYDRAULIC INFORMATION SYSTEM



REAR VIEW OF ENGINE

RIGHT SIDE VIEW OF ENGINE

GRAPHIC #1

<END>

g01293679

LUBRICATION SYSTEM

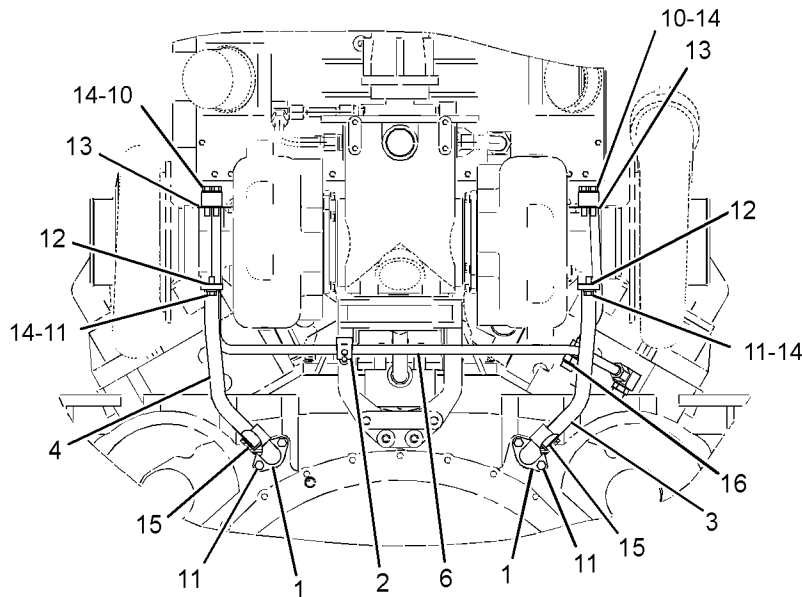
4W-5770 LINES GP-TURBOCHARGER OIL

S/N: ZBA1-UP

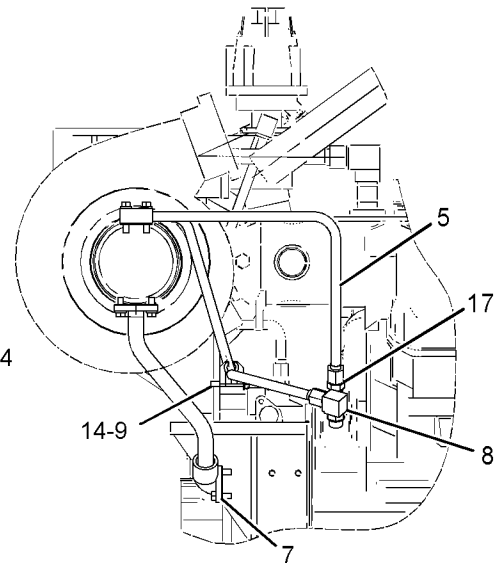
SMCS-1052, 1307

i02704941

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	1W-7214	2	ELBOW-DRAIN	
	2	1	4P-0692	2	CLAMP AS	
					(EACH INCLUDES)	
		1	108-1434	1	GROMMET	
	3	1	9Y-1039	1	TUBE AS-DRAIN (RH)	
	4	1	9Y-1040	1	TUBE AS-TURBOCHARGER (LH)	
	5	1	9Y-1041	1	TUBE AS-OIL (RH)	
	6	1	9Y-1042	1	TUBE AS-OIL (LH)	
	7	1	252-8374	2	GASKET	
	8	1	250-1498	1	ELBOW AS	
		1	6V-4589	1	SEAL-O-RING	
		1	250-1497	1	ELBOW	
	9	1	0L-2070	1	BOLT (3/8-16X2.25-IN)	
	10	1	0S-1571	4	BOLT (3/8-16X1.75-IN)	
	11	1	0S-1594	8	BOLT (3/8-16X1-IN)	
	12	1	1S-4810	2	GASKET-OIL DRAIN	
	13	1	1S-6595	2	GASKET-OIL SUPPLY	
	14	1	5M-2894	9	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	15	1	5P-9890	2	SEAL-O-RING	
	16	1	6V-4589	1	SEAL-O-RING	
	17	1	9M-4584	1	CONNECTOR	



REAR VIEW



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g01362966

LUBRICATION SYSTEM

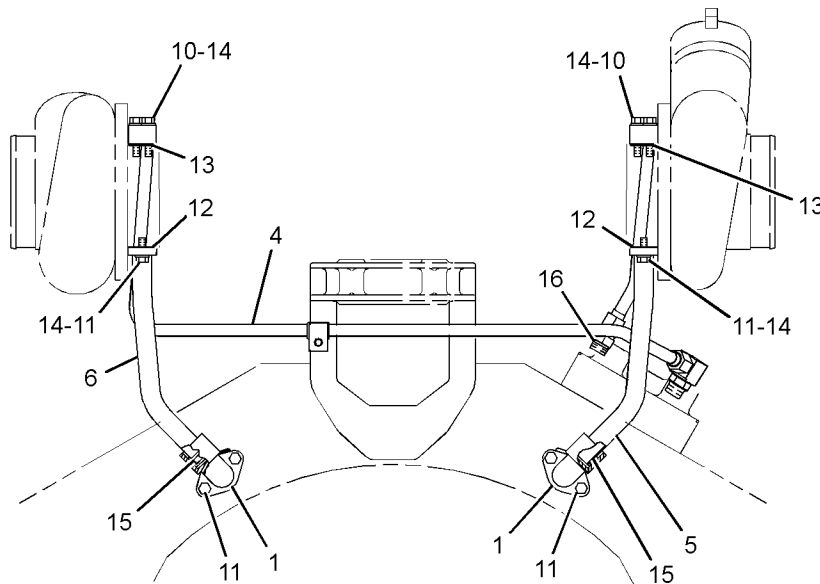
7E-4762 LINES GP-TURBOCHARGER OIL

S/N: ZBA1-UP

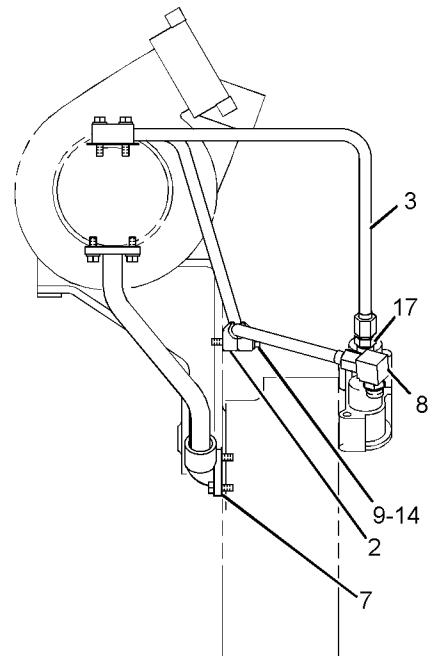
SMCS-1052, 1307

i02704940

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1W-7214	2	ELBOW-DRAIN						
	2	1	4P-0692	2	CLAMP AS						
					(EACH INCLUDES)						
		1	108-1434	1	GROMMET						
	3	1	7E-6706	1	TUBE AS-OIL (RH)						
	4	1	7E-6707	1	TUBE AS-OIL (LH)						
	5	1	9Y-1039	1	TUBE AS-DRAIN (RH)						
	6	1	9Y-1040	1	TUBE AS-TURBOCHARGER (LH)						
	7	1	252-8374	2	GASKET						
	8	1	250-1498	1	ELBOW AS						
		1	6V-4589	1	SEAL-O-RING						
		1	250-1497	1	ELBOW						
	9	1	0L-2070	1	BOLT (3/8-16X2.25-IN)						
	10	1	0S-1571	4	BOLT (3/8-16X1.75-IN)						
	11	1	0S-1594	8	BOLT (3/8-16X1-IN)						
	12	1	1S-4810	2	GASKET-OIL DRAIN						
	13	1	1S-6595	2	GASKET-OIL SUPPLY						
	14	1	5M-2894	9	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	15	1	5P-9890	2	SEAL-O-RING						
	16	1	6V-4589	1	SEAL-O-RING						
	17	1	9M-4584	1	CONNECTOR						



REAR VIEW



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g01362959

LUBRICATION SYSTEM

121-7732 LINES GP-TURBOCHARGER OIL

S/N: ZBA1-UP

SMCS-1052, 1307

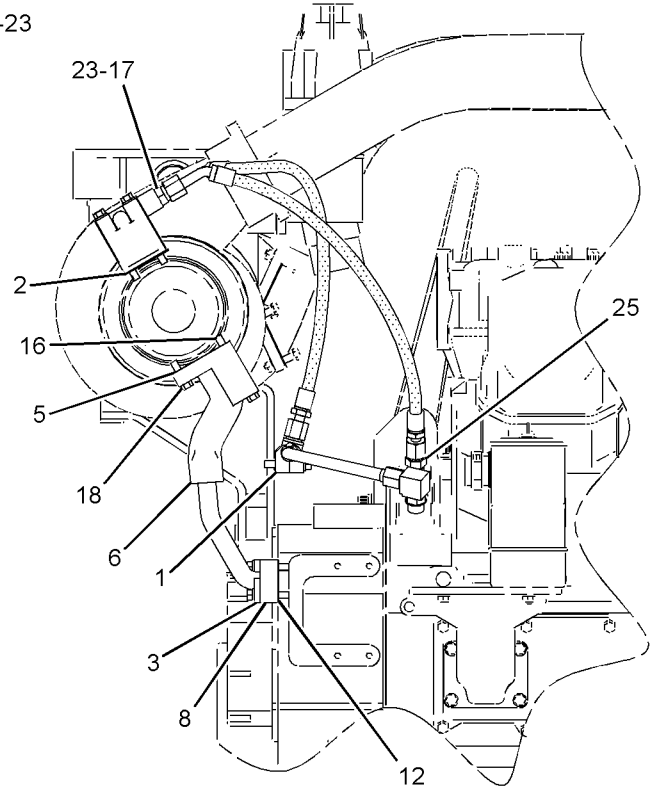
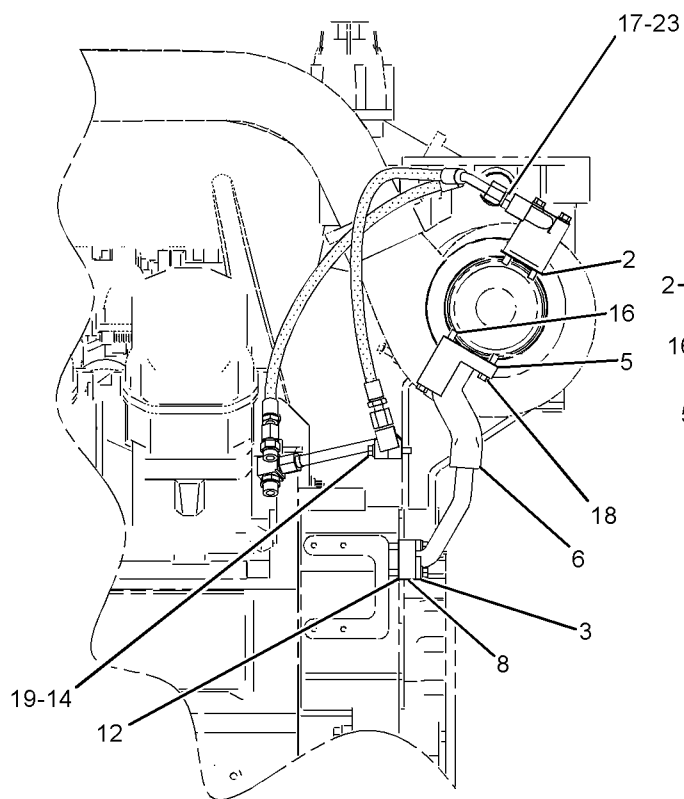
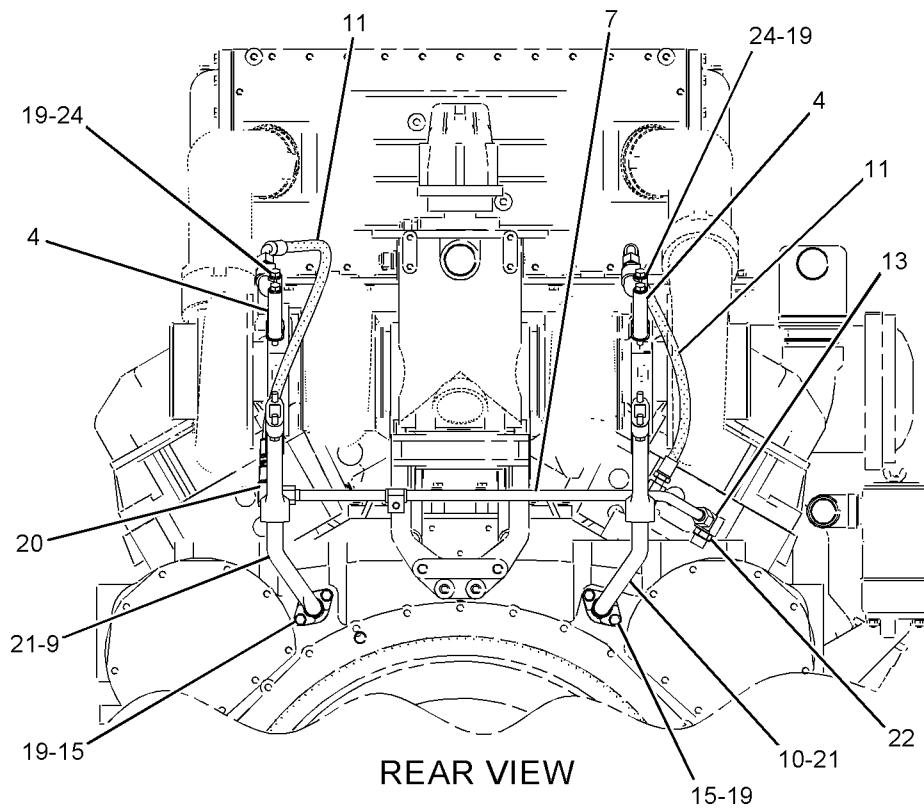
i02719174

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4P-0692	2	CLAMP AS						
					(EACH INCLUDES)						
		1	108-1434	1	GROMMET						
	2	1	4P-4460	2	GASKET						
	3	1	4W-2109	4	RETAINER						
	4	1	6I-0804	2	ADAPTER-TURBOCHARGER OIL						
	5	1	7N-7559	2	GASKET						
	6	1	9Y-5814	2	ELBOW-DRAIN						
	7	1	121-7736	1	TUBE AS						
	8	1	131-0484	2	ADAPTER						
	9	1	167-6763	1	TUBE (LH)						
	10	1	167-6764	1	TUBE (RH)						
	11	1	203-0170	2	HOSE AS						
	12	1	252-8374	2	GASKET						
	13	1	250-1498	1	ELBOW AS						
		1	6V-4589	1	SEAL-O-RING						
		1	250-1497	1	ELBOW						
	14	1	0L-2070	1	BOLT (3/8-16X2.25-IN)						
	15	1	0S-1590	4	BOLT (3/8-16X2-IN)						
	16	1	0S-1608	2	BOLT (3/8-16X3.75-IN)						
	17	1	2P-7636	2	CONNECTOR						
	18	1	3B-1915	2	BOLT (3/8-16X1.375-IN)						
	19	1	5M-2894	9	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	20	1	250-1496	1	ELBOW						
	21	1	5P-9890	4	SEAL-O-RING						
	22	1	6V-4589	1	SEAL-O-RING						
	23	1	8L-2786	2	SEAL-O-RING						
	24	1	8S-9191	4	BOLT (3/8-16X4-IN)						
	25	1	9M-4584	1	CONNECTOR						

LUBRICATION SYSTEM

121-7732 LINES GP - TURBOCHARGER OIL (contd.)

i02719174



GRAPHIC #1

<END>

g01099160

LUBRICATION SYSTEM

150-9619 LINES GP-TURBOCHARGER OIL

S/N: ZBA1-UP

SMCS-1052, 1307

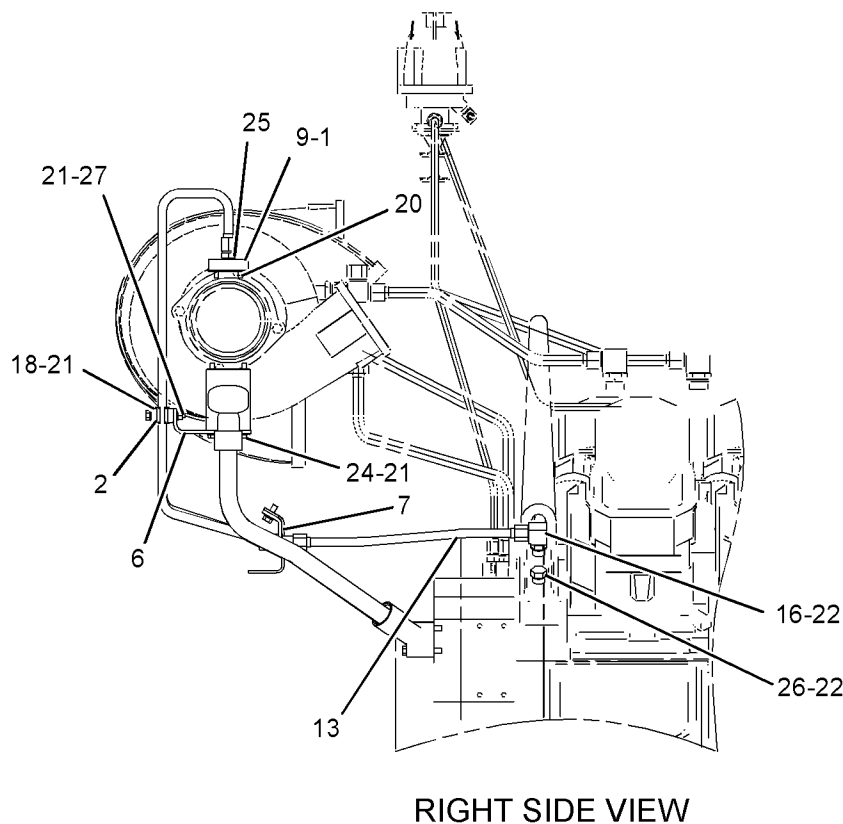
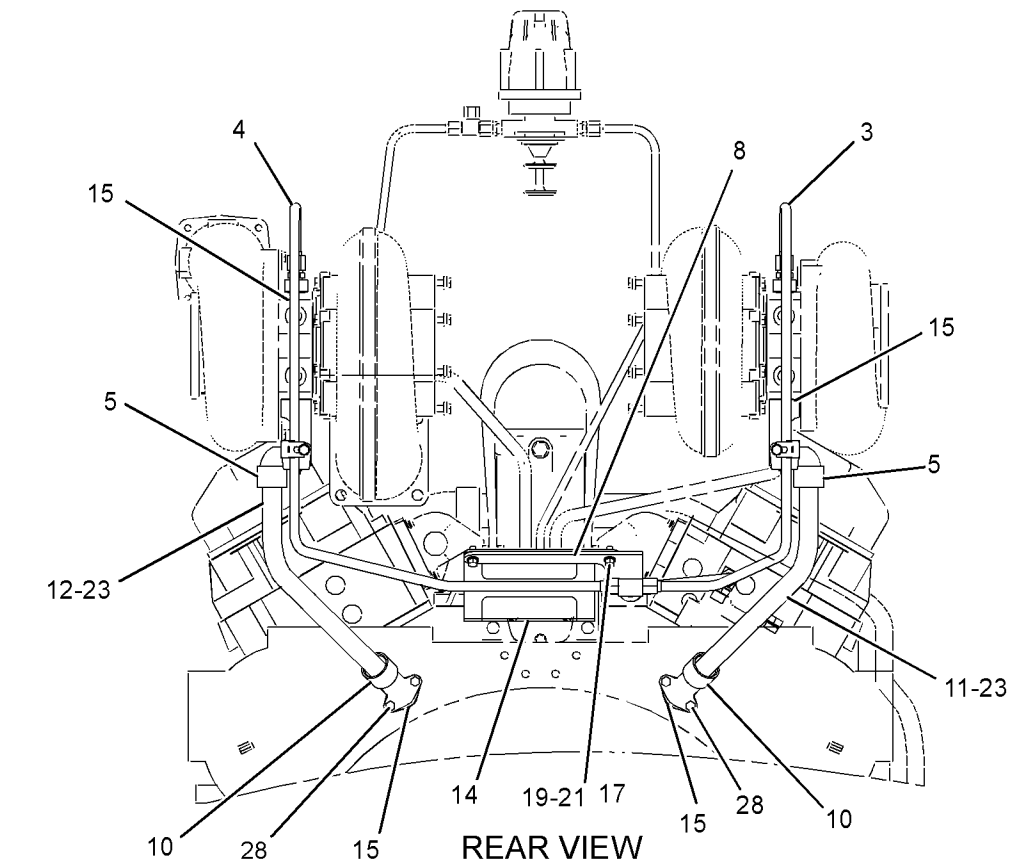
i02801192

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4L-8149	2	GASKET						
	2	1	4P-0692	4	CLAMP AS						
					(EACH INCLUDES)						
		1	108-1434	1	GROMMET						
	3	1	7E-1078	1	TUBE AS						
	4	1	7E-1079	1	TUBE AS						
	5	1	7E-2909	2	ELBOW						
	6	1	7E-2910	2	BRACKET						
	7	1	7F-2060	1	LOCKNUT (7/8-14-THD)						
	8	1	9Y-0637	1	BRACKET						
	9	1	9Y-1049	2	FLANGE-SUPPLY						
	10	1	273-1039	2	ELBOW						
	11	1	273-0997	1	TUBE						
	12	1	273-0998	1	TUBE						
	13	1	144-3994	1	TUBE AS						
	14	1	183-3108	1	BRACKET						
	15	1	252-8374	4	GASKET						
	16	1	250-1498	1	ELBOW AS						
		1	6V-4589	1	SEAL-O-RING						
		1	250-1497	1	ELBOW						
	17	1	061-7738	1	TEE (FLARED)						
	18	1	0L-1143	2	BOLT (3/8-16X2.5-IN)						
	19	1	0S-1594	2	BOLT (3/8-16X1-IN)						
M	20	1	5A-3604	4	BOLT-SOCKET HEAD (M8X1.25X25-MM)						
	21	1	5M-2894	10	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	22	1	6V-4589	1	SEAL-O-RING						
	23	1	6V-5134	4	SEAL-O-RING						
M	24	1	7X-0457	4	BOLT (M8X1.25X130-MM)						
	25	1	9M-6522	2	CONNECTOR						
	26	1	9S-4190	1	PLUG-O-RING						
	27	1	9S-8752	2	NUT-FULL (3/8-16-THD)						
	28	1	0L-2070	4	BOLT (3/8-16X2.25-IN)						
M-METRIC PART											

LUBRICATION SYSTEM

150-9619 LINES GP-TURBOCHARGER OIL (contd.)

i02801192



GRAPHIC #1

<END>

g01400726

LUBRICATION SYSTEM

102-6845 LUBRICATION AR-OIL MAKE-UP

S/N: ZBA1-UP
30 GALLON
AN ATTACHMENT

SMCS-1302, 1334

i02437309

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
CI	1	1	111-2611	2	HOSE AS						
C	2	1	137-7705	1	VALVE						
C	3	1	142-1609	4	BOLT (SELF-TAPPING)						
C	4	1	154-5716	1	GAUGE-OIL LEVEL (DIPSTICK) (ENGINE)						
C	5	1	200-1914	1	SWITCH AS-LIQUID LEVEL (ENGINE OIL)						
	6	1	200-6159	4	BASE (7.8X13.8-MM SLOT)						
	7	1	201-7902	4	CLAMP						
C	8	1	205-0667	1	ELBOW						
C	9	1	222-8421	1	TANK AS						
		1	9L-0454	1	COUPLING						
C	10	1	222-9984	1	PIPE						
C	11	1	222-9985	1	PIPE						
C	12	1	000-7244	1	ELBOW						
C	13	1	1B-5174	1	PLUG-PIPE						
C	14	1	1Y-0412	2	ELBOW-PIPE						
C	15	1	3B-0551	1	PLUG-PIPE						
C	16	1	3B-6497	1	ELBOW						
C	17	1	3B-7744	1	FITTING						
C	18	1	5P-4116	4	WASHER-HARD (8.8X20.5X2-MM THK)						
C	19	1	5P-4888	4	SCREW-CUTTING						
	20	1	8T-4205	4	WASHER-HARD (7.2X14.5X2-MM THK)						

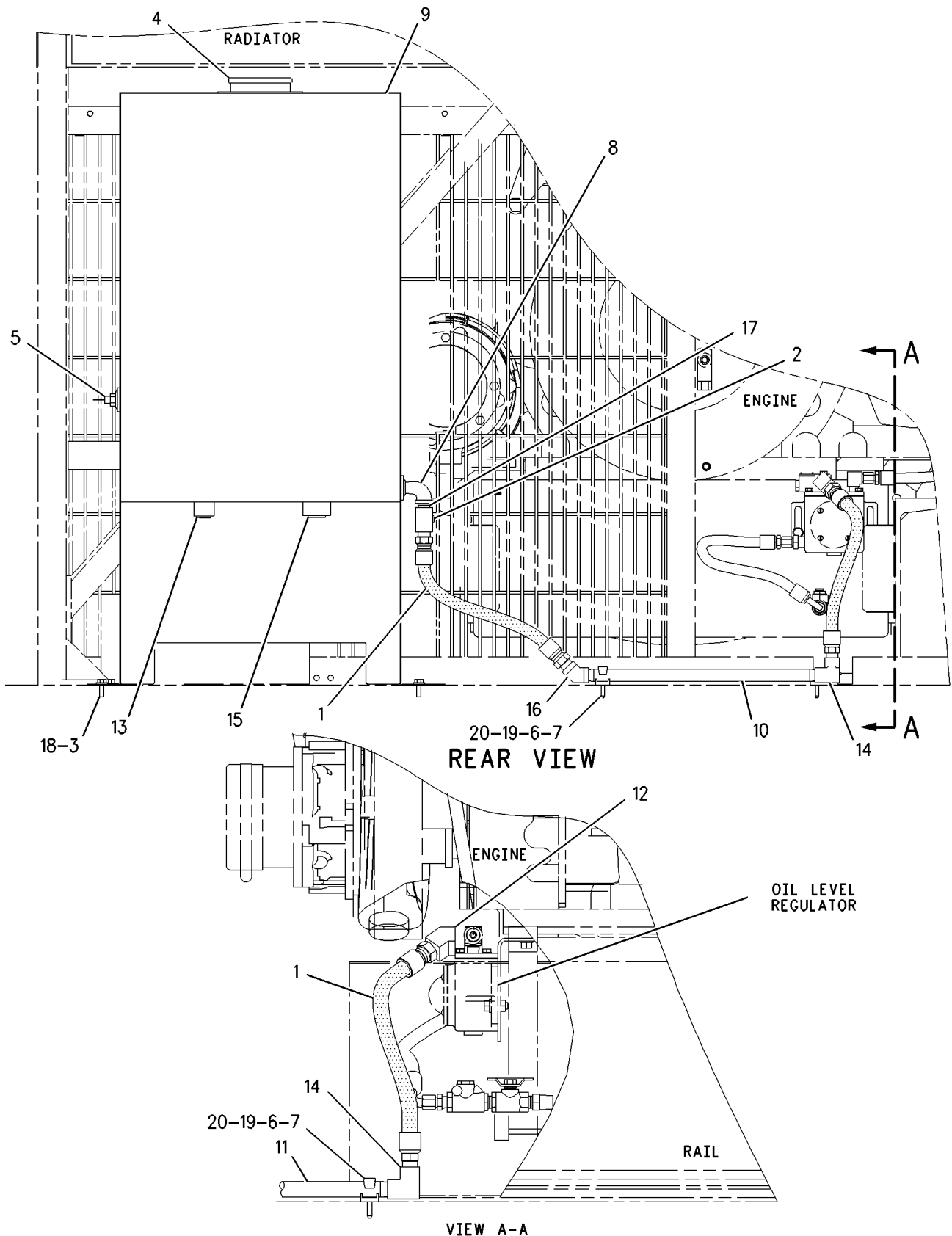
C- CHANGE FROM PREVIOUS TYPE

I- REFER TO HYDRAULIC INFORMATION SYSTEM

LUBRICATION SYSTEM

102-6845 LUBRICATION AR-OIL MAKE-UP (contd.)

i02437309



g00914086

LUBRICATION SYSTEM

4P-4925 PUMP & LINES GP-PRELUBRICATION-SHALLOW SUMP

S/N: ZBA1-UP
AN ATTACHMENT
TYPE 1

SMCS-1319

i02502811

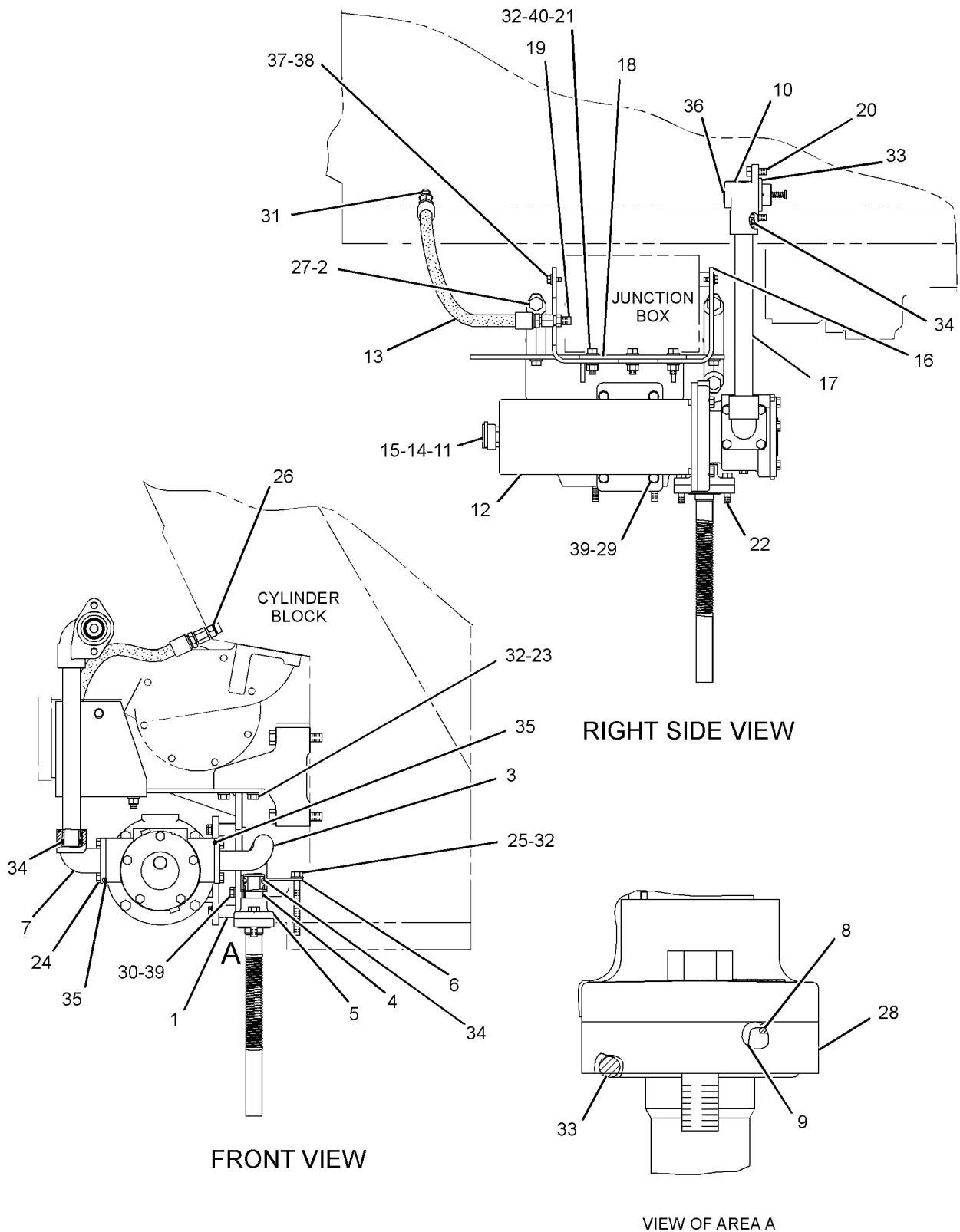
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	1M-3381	4	SPACER (0.438X0.75X1-IN THK)	
	2	1	1N-3872	2	SUPPORT	
	3	1	1W-3942	1	ELBOW	
	4	1	1W-3943	1	COUPLING	
	5	1	1W-3944	1	FLANGE	
	6	1	1W-4257	1	BRACKET AS	
		1	4K-9097	2	NUT-WELD (5/16-18-THD)	
	7	1	1W-8188	1	ELBOW	
	8	1	2G-6303	1	SEAL	
	9	1	2G-6304	1	STRAINER AS (ENGINE OIL)	
	10	1	2W-0694	1	ELBOW AS-VALVE	
		1	1P-5274	1	PIN-VALVE SPRING	
		1	7L-0811	1	DOWEL	
		1	9B-0701	2	SPRING	
		1	9H-2367	1	SPRING-VALVE	
		1	9L-0672	1	VALVE-CHECK	
	11	1	3F-2065	1	LOCKNUT (1/2-14-NPTF-THD)	
Y	12	1	3T-3735	1	PUMP GP-PRELUBRICATION	224
I	13	1	4P-4927	1	HOSE AS	
	14	1	5N-8943	1	ADAPTER	
	15	1	5N-9073	1	CLIP	
	16	1	6I-0744	1	BRACKET	
	17	1	7N-6460	1	TUBE	
	18	1	251-9436	1	BRACKET AS	
	19	1	032-1267	1	CONNECTOR	
	20	1	0L-1351	2	BOLT (3/8-16X0.875-IN)	
	21	1	0S-1588	3	BOLT (3/8-16X1.25-IN)	
	22	1	0S-1591	2	BOLT (3/8-16X1.5-IN)	
	23	1	0S-1594	4	BOLT (3/8-16X1-IN)	
	24	1	0S-1617	8	BOLT (5/16-18X0.75-IN)	
	25	1	0T-0065	2	BOLT (3/8-16X3.5-IN)	
	26	1	153-4906	1	SEAL-O-RING	
	27	1	1A-5822	4	BOLT (1/2-13X2.75-IN)	
	28	1	1W-4821	1	HOSE AS	
	29	1	2B-2694	4	BOLT (5/16-18X2-IN)	
	30	1	2B-2695	2	BOLT (5/16-18X0.875-IN)	
	31	1	2R-6806	1	CONNECTOR-O-RING	
	32	1	5M-2894	12	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	33	1	5P-5846	2	SEAL-O-RING	
	34	1	5P-9890	4	SEAL-O-RING	
	35	1	6V-5100	2	SEAL-O-RING	
	36	1	7X-7731	1	PLUG-PIPE	
	37	1	8T-4205	4	WASHER-HARD (7.2X14.5X2-MM THK)	
	38	1	8T-9364	4	BOLT (1/4-20X0.625-IN)	
	39	1	9M-1974	6	WASHER-HARD (8.8X16X2-MM THK)	
	40	1	9S-8752	3	NUT-FULL (3/8-16-THD)	

I-REFER TO HYDRAULIC INFORMATION SYSTEM
Y-SEPARATE ILLUSTRATION

LUBRICATION SYSTEM

4P-4925 PUMP & LINES GP-PRELUBRICATION (contd.)

i02502811



GRAPHIC #1

<END>

g01253246

LUBRICATION SYSTEM

4P-4925 PUMP & LINES GP-PRELUBRICATION-SHALLOW SUMP

S/N: ZBA1-UP
AN ATTACHMENT
TYPE 2

SMCS-1319

i02715773

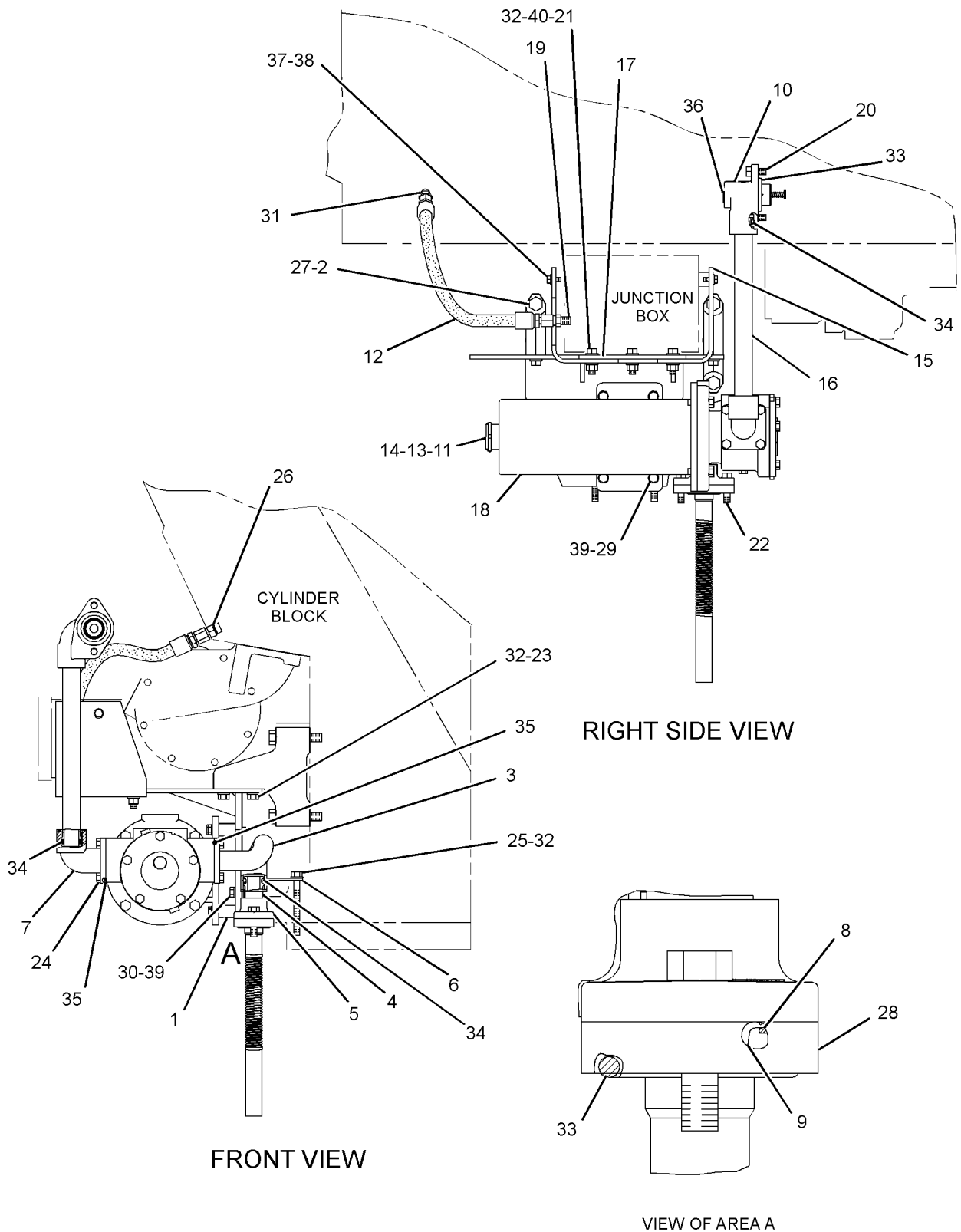
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	1M-3381	4	SPACER (0.438X0.75X1-IN THK)	
	2	1	1N-3872	2	SUPPORT	
	3	1	1W-3942	1	ELBOW	
	4	1	1W-3943	1	COUPLING	
	5	1	1W-3944	1	FLANGE	
	6	1	1W-4257	1	BRACKET AS	
		1	4K-9097	2	NUT-WELD (5/16-18-THD)	
	7	1	1W-8188	1	ELBOW	
	8	1	2G-6303	1	SEAL	
	9	1	2G-6304	1	STRAINER AS (ENGINE OIL)	
	10	1	2W-0694	1	ELBOW AS-VALVE	
		1	1P-5274	1	PIN-VALVE SPRING	
		1	7L-0811	1	DOWEL	
		1	9B-0701	2	SPRING	
		1	9H-2367	1	SPRING-VALVE	
		1	9L-0672	1	VALVE-CHECK	
	11	1	3F-2065	1	LOCKNUT (1/2-14-NPTF-THD)	
I	12	1	4P-4927	1	HOSE AS	
	13	1	5N-8943	1	ADAPTER	
	14	1	5N-9073	1	CLIP	
	15	1	6I-0744	1	BRACKET	
	16	1	7N-6460	1	TUBE	
	17	1	251-9436	1	BRACKET AS	
CY	18	1	302-8729	1	PUMP GP-PRELUBRICATION	229
	19	1	032-1267	1	CONNECTOR	
	20	1	0L-1351	2	BOLT (3/8-16X0.875-IN)	
	21	1	0S-1588	3	BOLT (3/8-16X1.25-IN)	
	22	1	0S-1591	2	BOLT (3/8-16X1.5-IN)	
	23	1	0S-1594	4	BOLT (3/8-16X1-IN)	
	24	1	0S-1617	8	BOLT (5/16-18X0.75-IN)	
	25	1	0T-0065	2	BOLT (3/8-16X3.5-IN)	
	26	1	153-4906	1	SEAL-O-RING	
	27	1	1A-5822	4	BOLT (1/2-13X2.75-IN)	
	28	1	1W-4821	1	HOSE AS	
	29	1	2B-2694	4	BOLT (5/16-18X2-IN)	
	30	1	2B-2695	2	BOLT (5/16-18X0.875-IN)	
	31	1	2R-6806	1	CONNECTOR-O-RING	
	32	1	5M-2894	12	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	33	1	5P-5846	2	SEAL-O-RING	
	34	1	5P-9890	4	SEAL-O-RING	
	35	1	6V-5100	2	SEAL-O-RING	
	36	1	7X-7731	1	PLUG-PIPE	
	37	1	8T-4205	4	WASHER-HARD (7.2X14.5X2-MM THK)	
	38	1	8T-9364	4	BOLT (1/4-20X0.625-IN)	
	39	1	9M-1974	6	WASHER-HARD (8.8X16X2-MM THK)	
	40	1	9S-8752	3	NUT-FULL (3/8-16-THD)	

C- CHANGE FROM PREVIOUS TYPE
I- REFER TO HYDRAULIC INFORMATION SYSTEM
Y- SEPARATE ILLUSTRATION

LUBRICATION SYSTEM

4P-4925 PUMP & LINES GP-PRELUBRICATION (contd.)

i02715773



GRAPHIC #1

<END>

g01366805

LUBRICATION SYSTEM

4P-4926 PUMP & LINES GP-PRELUBRICATION-DEEP SUMP

S/N: ZBA1-UP
24-VOLT
AN ATTACHMENT
TYPE 1

SMCS-1319

i02366001

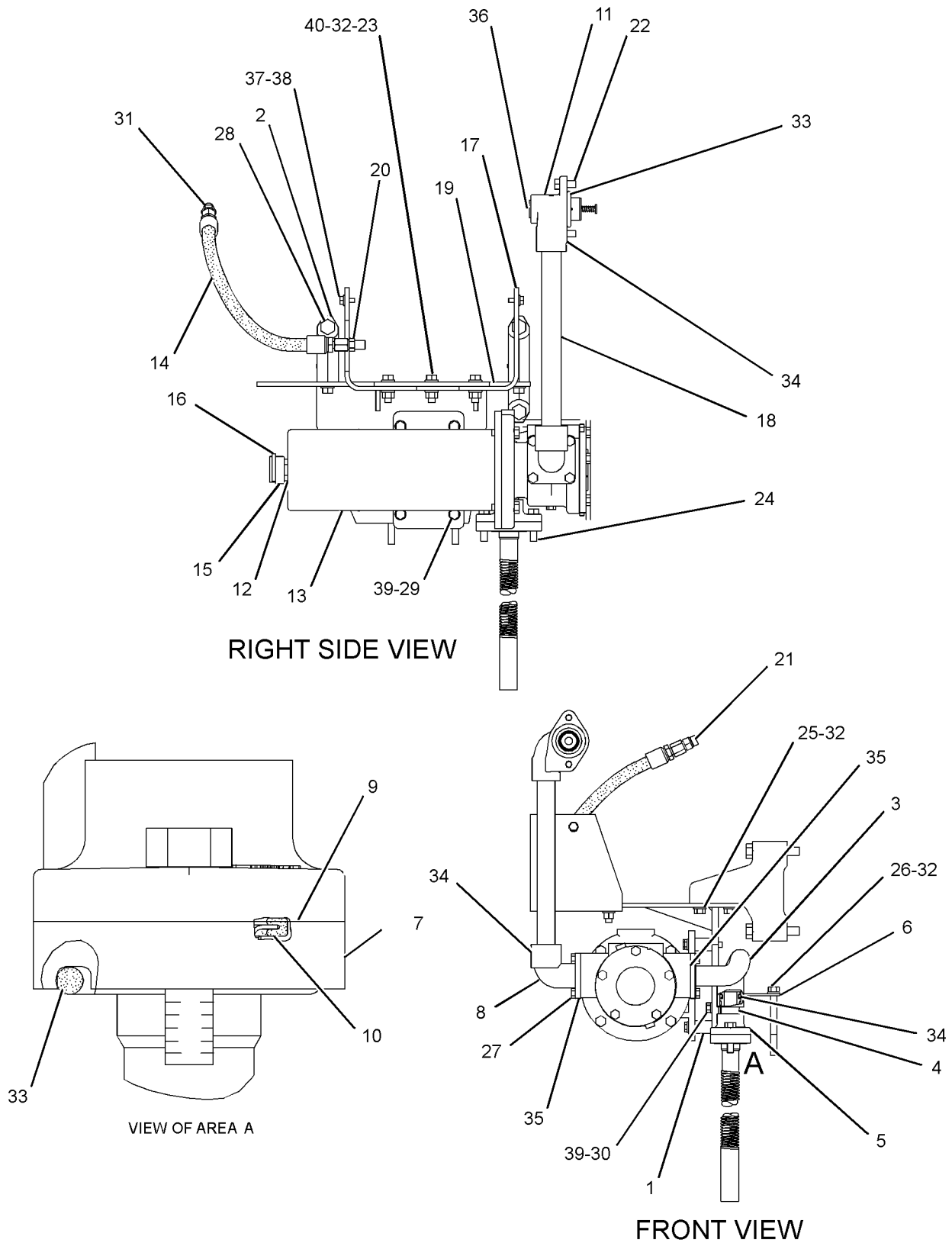
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	1M-3381	4	SPACER (0.438X0.75X1-IN THK)	
	2	1	1N-3872	2	SUPPORT	
	3	1	1W-3942	1	ELBOW	
	4	1	1W-3943	1	COUPLING	
	5	1	1W-3944	1	FLANGE	
	6	1	1W-4257	1	BRACKET AS	
		1	4K-9097	2	NUT-WELD (5/16-18-THD)	
	7	1	1W-4820	1	HOSE AS	
	8	1	1W-8188	1	ELBOW	
	9	1	2G-6303	1	SEAL	
	10	1	2G-6304	1	STRAINER AS (ENGINE OIL)	
	11	1	2W-0694	1	ELBOW AS-VALVE	
		1	1P-5274	1	PIN-VALVE SPRING	
		1	7L-0811	1	DOWEL	
		1	9B-0701	2	SPRING	
		1	9H-2367	1	SPRING-VALVE	
		1	9L-0672	1	VALVE-CHECK	
	12	1	3F-2065	1	LOCKNUT (1/2-14-NPTF-THD)	
Y	13	1	3T-3735	1	PUMP GP-PRELUBRICATION	224
I	14	1	4P-4927	1	HOSE AS	
	15	1	5N-8943	1	ADAPTER	
	16	1	5N-9073	1	CLIP	
	17	1	6I-0744	1	BRACKET	
	18	1	7N-6460	1	TUBE	
	19	1	251-9436	1	BRACKET AS	
	20	1	032-1267	1	CONNECTOR	
	21	1	033-6042	1	SEAL-O-RING	
	22	1	0L-1351	2	BOLT (3/8-16X0.875-IN)	
	23	1	0S-1588	3	BOLT (3/8-16X1.25-IN)	
	24	1	0S-1591	2	BOLT (3/8-16X1.5-IN)	
	25	1	0S-1594	4	BOLT (3/8-16X1-IN)	
	26	1	0S-1608	2	BOLT (3/8-16X3.75-IN)	
	27	1	0S-1617	8	BOLT (5/16-18X0.75-IN)	
	28	1	1A-5822	4	BOLT (1/2-13X2.75-IN)	
	29	1	2B-2694	4	BOLT (5/16-18X2-IN)	
	30	1	2B-2695	2	BOLT (5/16-18X0.875-IN)	
	31	1	2R-6806	1	CONNECTOR-O-RING	
	32	1	5M-2894	12	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	33	1	5P-5846	2	SEAL-O-RING	
	34	1	5P-9890	4	SEAL-O-RING	
	35	1	6V-5100	2	SEAL-O-RING	
	36	1	7X-7731	1	PLUG-PIPE	
	37	1	8T-4205	4	WASHER-HARD (7.2X14.5X2-MM THK)	
	38	1	8T-9364	4	BOLT (1/4-20X0.625-IN)	
	39	1	9M-1974	6	WASHER-HARD (8.8X16X2-MM THK)	
	40	1	9S-8752	3	NUT-FULL (3/8-16-THD)	

I-REFER TO HYDRAULIC INFORMATION SYSTEM
Y-SEPARATE ILLUSTRATION

LUBRICATION SYSTEM

4P-4926 PUMP & LINES GP - PRELUBRICATION (contd.)

i02366001



GRAPHIC #1

<END>

g01190033

LUBRICATION SYSTEM

4P-4926 PUMP & LINES GP-PRELUBRICATION-DEEP SUMP

S/N: ZBA1-UP
24-VOLT
AN ATTACHMENT
TYPE 2

SMCS-1319

i02716302

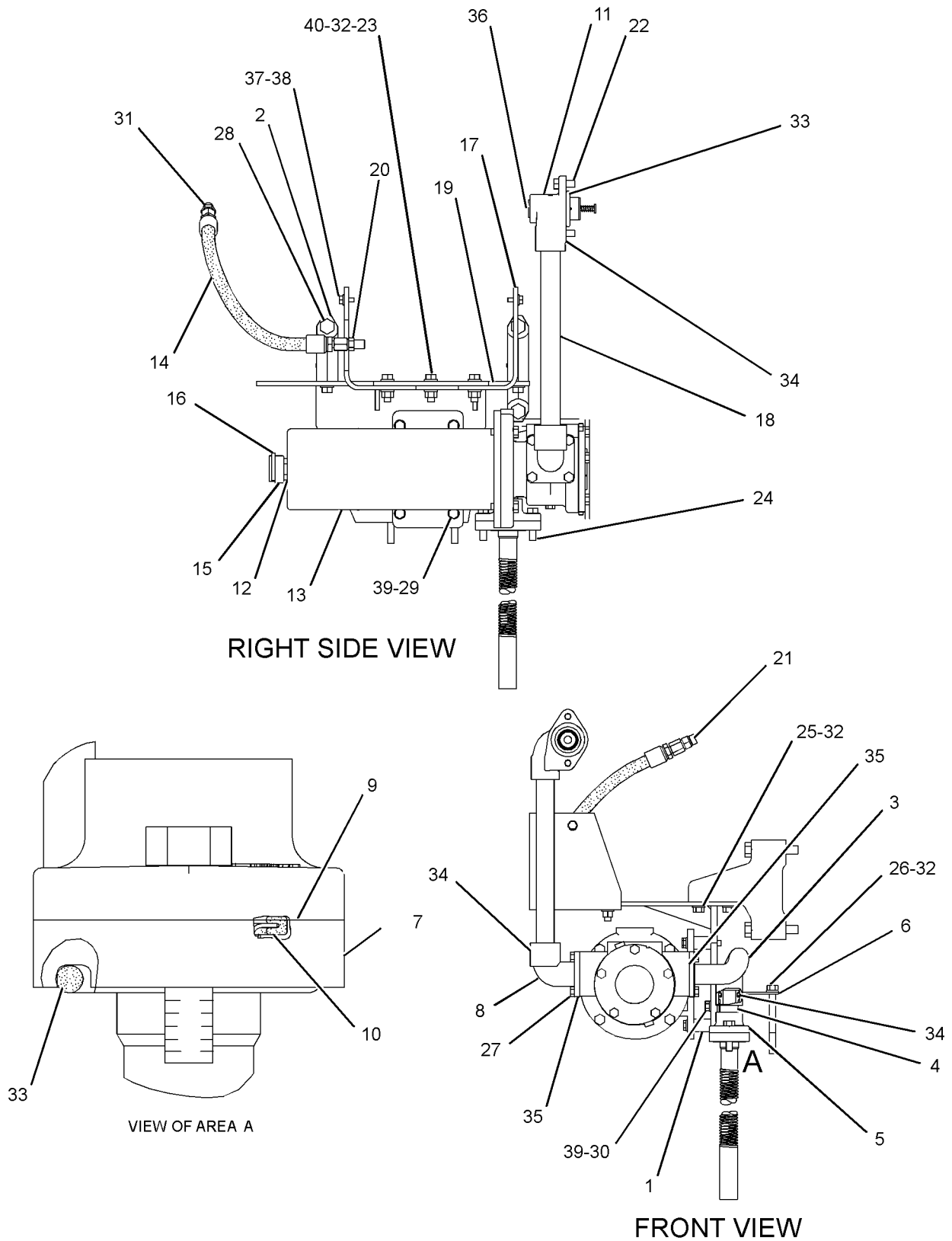
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	1M-3381	4	SPACER (0.438X0.75X1-IN THK)	
	2	1	1N-3872	2	SUPPORT	
	3	1	1W-3942	1	ELBOW	
	4	1	1W-3943	1	COUPLING	
	5	1	1W-3944	1	FLANGE	
	6	1	1W-4257	1	BRACKET AS	
		1	4K-9097	2	NUT-WELD (5/16-18-THD)	
	7	1	1W-4820	1	HOSE AS	
	8	1	1W-8188	1	ELBOW	
	9	1	2G-6303	1	SEAL	
	10	1	2G-6304	1	STRAINER AS (ENGINE OIL)	
	11	1	2W-0694	1	ELBOW AS-VALVE	
		1	1P-5274	1	PIN-VALVE SPRING	
		1	7L-0811	1	DOWEL	
		1	9B-0701	2	SPRING	
		1	9H-2367	1	SPRING-VALVE	
		1	9L-0672	1	VALVE-CHECK	
	12	1	3F-2065	1	LOCKNUT (1/2-14-NPTF-THD)	
CY	13	1	302-8729	1	PUMP GP-PRELUBRICATION	229
I	14	1	4P-4927	1	HOSE AS	
	15	1	5N-8943	1	ADAPTER	
	16	1	5N-9073	1	CLIP	
	17	1	6I-0744	1	BRACKET	
	18	1	7N-6460	1	TUBE	
	19	1	251-9436	1	BRACKET AS	
	20	1	032-1267	1	CONNECTOR	
	21	1	033-6042	1	SEAL-O-RING	
	22	1	0L-1351	2	BOLT (3/8-16X0.875-IN)	
	23	1	0S-1588	3	BOLT (3/8-16X1.25-IN)	
	24	1	0S-1591	2	BOLT (3/8-16X1.5-IN)	
	25	1	0S-1594	4	BOLT (3/8-16X1-IN)	
	26	1	0S-1608	2	BOLT (3/8-16X3.75-IN)	
	27	1	0S-1617	8	BOLT (5/16-18X0.75-IN)	
	28	1	1A-5822	4	BOLT (1/2-13X2.75-IN)	
	29	1	2B-2694	4	BOLT (5/16-18X2-IN)	
	30	1	2B-2695	2	BOLT (5/16-18X0.875-IN)	
	31	1	2R-6806	1	CONNECTOR-O-RING	
	32	1	5M-2894	12	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	33	1	5P-5846	2	SEAL-O-RING	
	34	1	5P-9890	4	SEAL-O-RING	
	35	1	6V-5100	2	SEAL-O-RING	
	36	1	7X-7731	1	PLUG-PIPE	
	37	1	8T-4205	4	WASHER-HARD (7.2X14.5X2-MM THK)	
	38	1	8T-9364	4	BOLT (1/4-20X0.625-IN)	
	39	1	9M-1974	6	WASHER-HARD (8.8X16X2-MM THK)	
	40	1	9S-8752	3	NUT-FULL (3/8-16-THD)	

C-CHANGE FROM PREVIOUS TYPE
I-REFER TO HYDRAULIC INFORMATION SYSTEM
Y-SEPARATE ILLUSTRATION

LUBRICATION SYSTEM

4P-4926 PUMP & LINES GP - PRELUBRICATION (contd.)

i02716302



GRAPHIC #1

<END>

g01190033

LUBRICATION SYSTEM

4P-5638 PUMP GP-ENGINE OIL-2-SECTION GEAR*R

S/N: ZBA1-UP

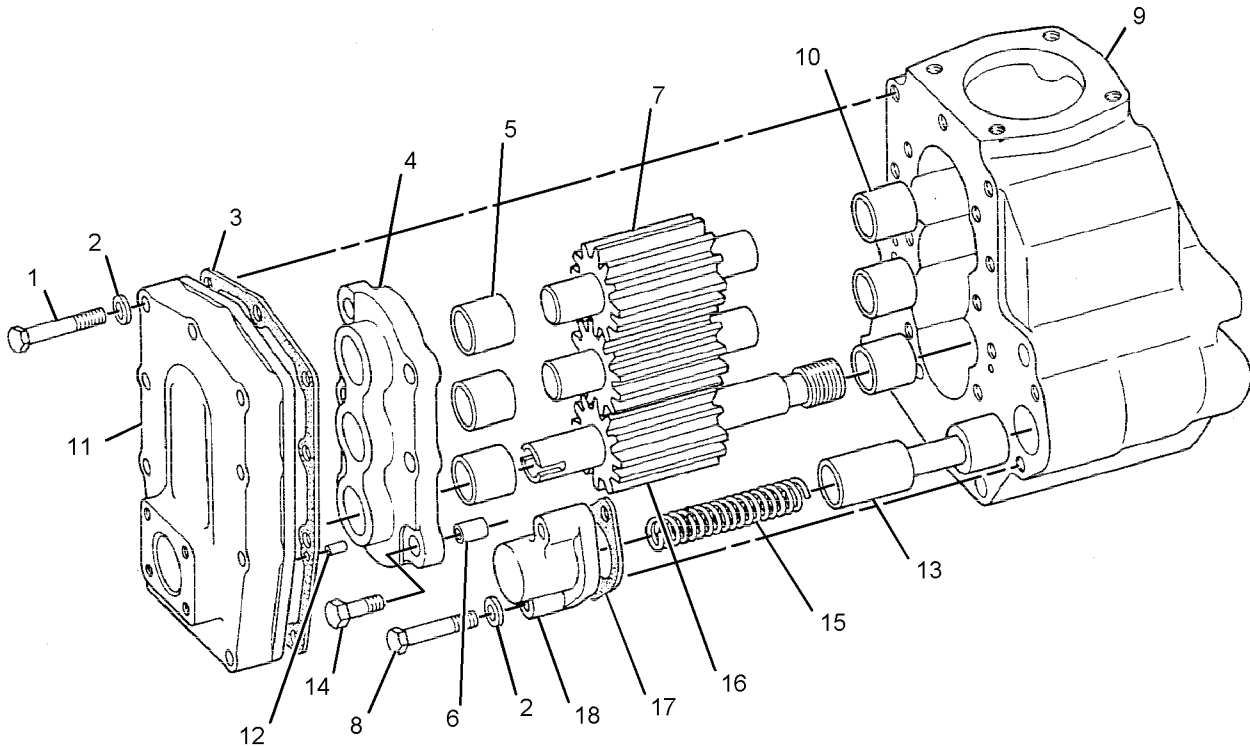
PART OF 8N-6152 PUMP GP-ENGINE OIL

SMCS-1304, 1315

i02226409

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	0S-1590	9	BOLT (3/8-16X2-IN)						
	2	1	5M-2894	11	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	3	1	7N-5057	1	GASKET						
	4	1	7W-0050	1	COVER AS-PUMP						
	5	1	1W-6005	3	BEARING-SLEEVE						
	6	1	4M-3248	2	DOWEL-HOLLOW						
	7	1	2W-5479	2	SHAFT AS-PUMP						
	8	1	7F-1866	2	BOLT (3/8-16X3-IN)						
C	9	1	4P-5637	1	BODY AS-OIL PUMP						
	10	1	1W-6005	3	BEARING-SLEEVE						
	11	1	1N-4637	1	COVER AS-PUMP						
	12	1	7N-2043	2	DOWEL						
	13	1	7N-5449	1	SPOOL-PRESSURE RELIEF						
	14	1	0S-1585	6	BOLT (1/2-13X1.5-IN)						
	15	1	2S-2760	1	SPRING						
	16	1	2W-6618	1	SHAFT AS-PUMP DRIVE						
	17	1	111-1349	1	GASKET						
	18	1	7N-5049	1	COVER-RELIEF VALVE						

C- CHANGE FROM PREVIOUS TYPE



GRAPHIC #1

<END>

g01123381

LUBRICATION SYSTEM

8N-6152 PUMP GP-ENGINE OIL-2-SECTION GEAR

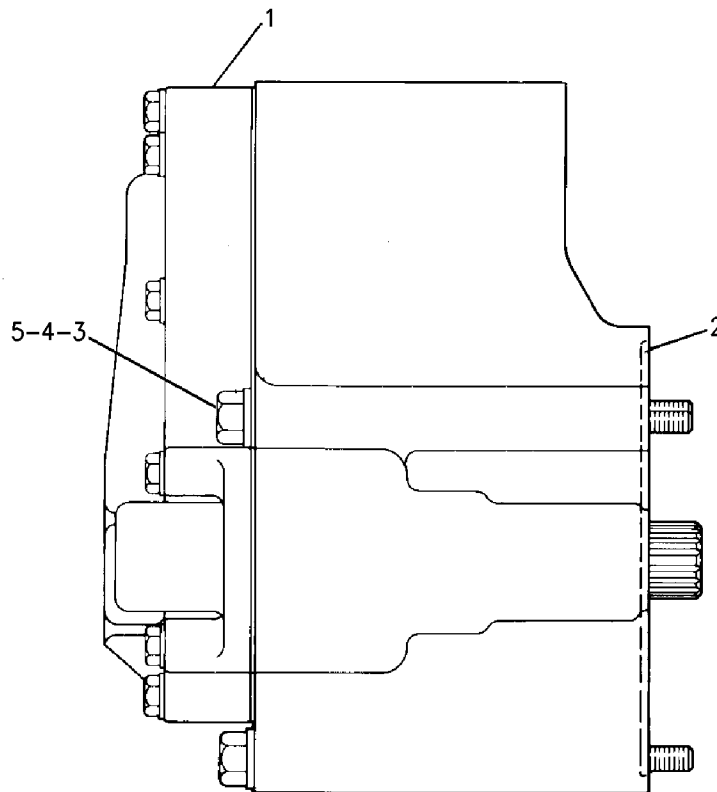
S/N: ZBA1-UP

SMCS-1304, 1315

i02639836

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
CYR	1	1	4P-5638	1	PUMP GP-ENGINE OIL	218
	2	1	298-6387	1	SEAL-O-RING	
	3	1	4S-5882	3	BOLT (1/2-13X7.25-IN)	
	4	1	5P-8245	3	WASHER-HARD (13.5X25.5X3-MM THK)	
C	5	1	9M-4355	3	DAMPER-BOLT	

C-CHANGE FROM PREVIOUS TYPE
R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00637724

LUBRICATION SYSTEM

1W-4674 PUMP GP - PRELUBRICATION

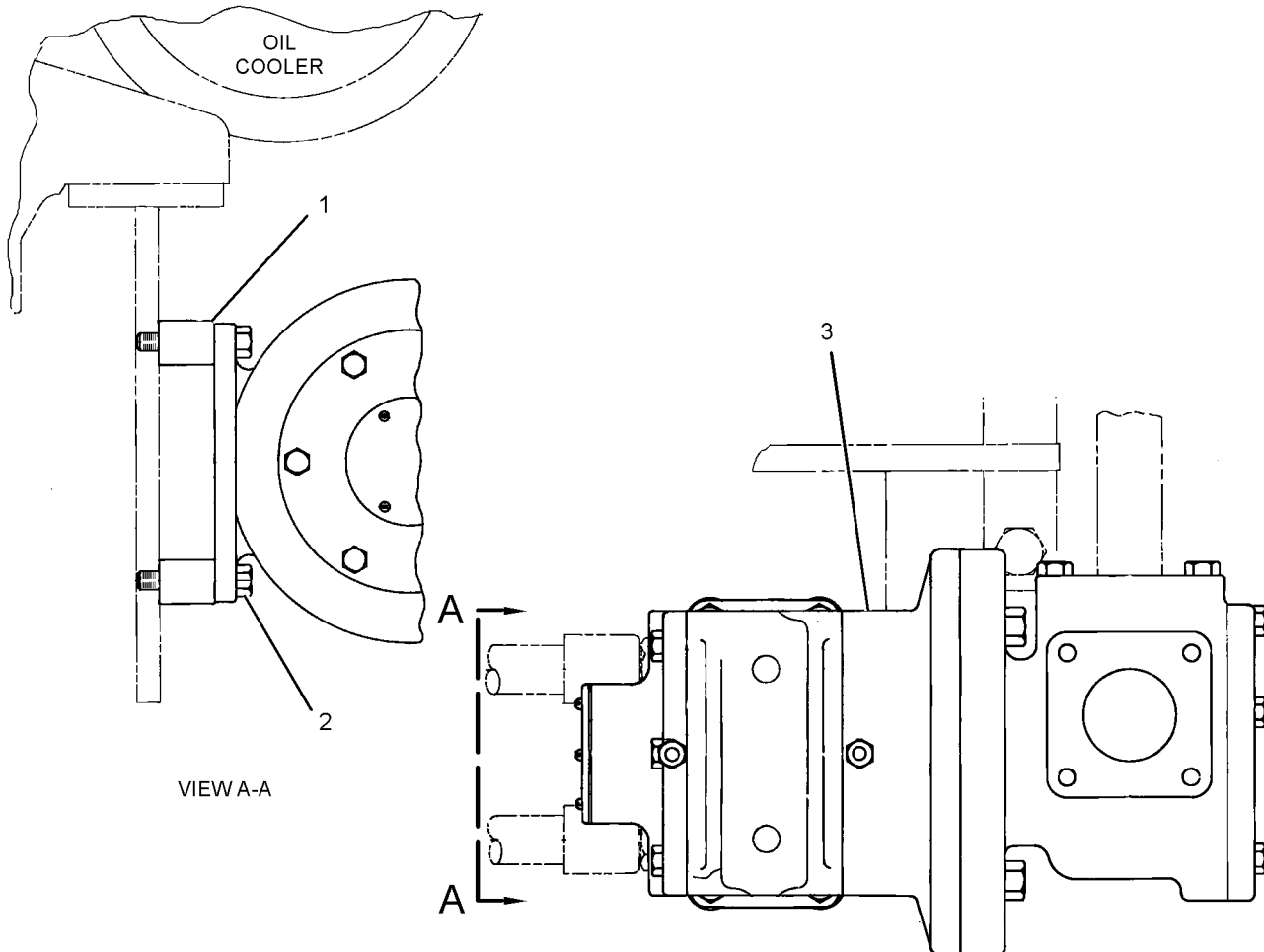
S/N: ZBA1-UP

FOR USE WITH AIR STARTER, 1W-3941-PAGE 198
AN ATTACHMENT

SMCS-1319

i02599089

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1M-3381	4	SPACER (0.438X0.75X1 - IN THK)						
	2	1	1B-9575	4	BOLT (5/16-18X1.56 - IN)						
Y	3	1	1W-4776	1	PUMP GP -PRELUBRICATION						221
Y-SEPARATE ILLUSTRATION											



GRAPHIC #1

<END>

g01302067

LUBRICATION SYSTEM

1W-4776 PUMP GP - PRELUBRICATION

S/N: ZBA1-UP

PART OF 1W-4674 PUMP GP - PRELUBRICATION
FOR USE WITH AIR STARTER
AN ATTACHMENT

SMCS-1319

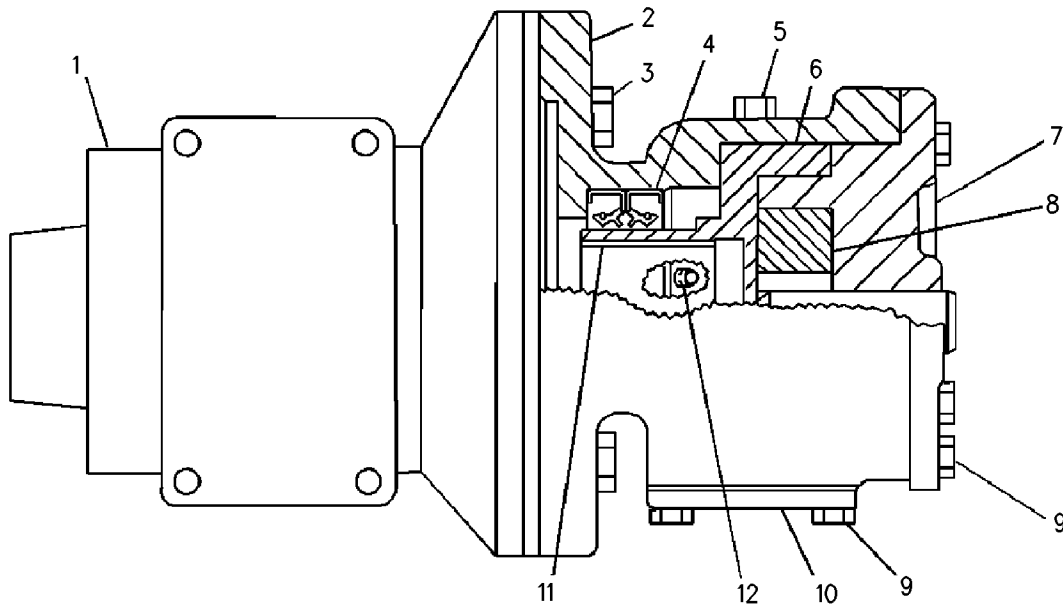
i02667898

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
J	1	1	3N-1287	1	STARTING MOTOR AS-AIR						
	2	1	5N-6668	1	HOUSING						
	3	1	0S-1588	4	BOLT (3/8-16X1.25-IN)						
	4	1	1H-5959	2	SEAL-LIP TYPE						
	5	1	5M-6214	2	PLUG-PIPE						
	6	1	3N-1285	1	ROTOR						
	7	1	3N-1283	1	HEAD AS						
	8	1	3N-1284	1	IDLER AS (7-TEETH)						
	9	1	0S-1617	9	BOLT (5/16-18X0.75-IN)						
	10	1	2N-7521	1	COVER						
		1	2N-7520	1	GASKET						
	11	1	6F-2172	1	KEY						
	12	1	6D-3910	1	SCREW-BUTTON HEAD (10-32X0.25-IN)						
					AVAILABLE REPAIR KIT(S):						
			2N-7522	1	KIT-GASKET (PRELUBRICATION PUMP)						
					(INCLUDES GASKETS)						
J			5N-7776	1	KIT-MOTOR REPAIR (STARTING MOTOR)						
					(INCLUDES VANES, PINS, BEARING, SEALS, SPRINGS, END CAP, GASKETS AND O-RING)						
J			2W-6083	1	KIT-GASKET (STARTING MOTOR)						
					(INCLUDES GASKETS, END CAP AND O-RING)						
J-KITS MARKED J AVAILABLE FOR PART MARKED J											

LUBRICATION SYSTEM

1W-4776 PUMP GP-PRELUBRICATION (contd.)

i02667898



GRAPHIC #1

<END>

g00817242

LUBRICATION SYSTEM

2N-7613 PUMP GP-PRELUBRICATION

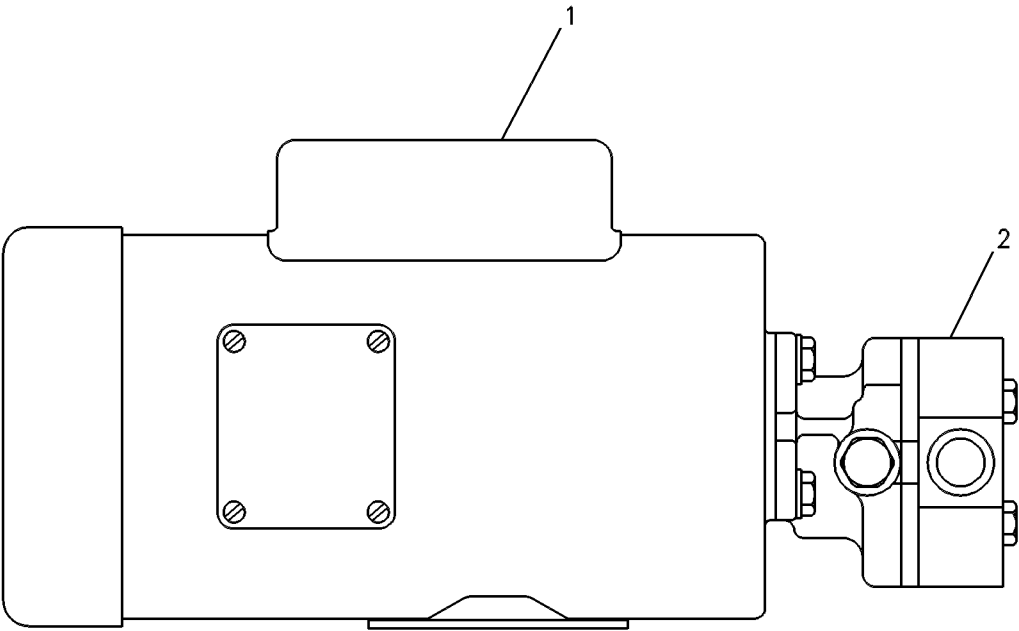
S/N: ZBA1-UP

PART OF 113-4174 PUMP GP-PRELUBRICATION
AN ATTACHMENT

SMCS-1319

i00657080

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7N-4510	1	MOTOR AS						
		1	7N-4509	1	CAPACITOR						
	2	1	7N-4517	1	PUMP AS-GEAR						



GRAPHIC #1

<END>

g00253042

LUBRICATION SYSTEM

3T-3735 PUMP GP - PRELUBRICATION

S/N: ZBA1-UP

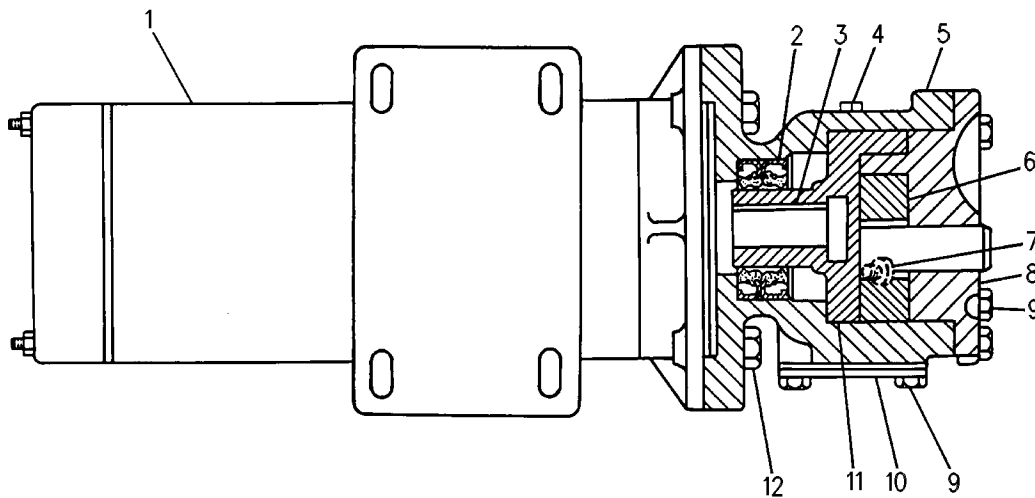
24-VOLT

PART OF 4P-4925, 4P-4926 PUMP & LINES GP - PRELUBRICATION
AN ATTACHMENT

SMCS-1319

i02656401

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3T-7583	1	MOTOR AS -PRELUBRICATION						
	2	1	1H-5959	2	SEAL -LIP TYPE						
	3	1	008-8694	1	KEY						
	4	1	5M-6214	2	PLUG-PIPE						
	5	1	5N-6668	1	HOUSING						
	6	1	2N-7523	1	IDLER AS (7-TEETH)						
	7	1	6D-3910	1	SCREW-BUTTON HEAD (10-32X0.25-IN)						
	8	1	2N-7524	1	HEAD AS						
	9	1	0S-1617	9	BOLT (5/16-18X0.75-IN)						
	10	1	2N-7521	1	COVER						
	11	1	6N-5595	1	ROTOR						
	12	1	0S-1588	4	BOLT (3/8-16X1.25-IN)						
	13	1	2N-7520	1	GASKET						
					AVAILABLE REPAIR KIT(S) :						
					2N-7522	1	KIT-GASKET (PRELUBRICATION PUMP)				
					(INCLUDES GASKETS)						



GRAPHIC #1

<END>

g00490993

LUBRICATION SYSTEM

113-4174 PUMP GP - PRELUBRICATION

S/N: ZBA1-UP

AN ATTACHMENT

SMCS-1319

i02291627

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	0L-1325	1	WASHER (0.78X1.3125X0.125-IN THK)						
	2	1	1M-3381	4	SPACER (0.438X0.75X1-IN THK)						
	3	1	1N-3872	2	SUPPORT						
	4	1	1W-4257	1	BRACKET AS						
		1	4K-9097	2	NUT-WELD (5/16-18-THD)						
	5	1	1W-4821	1	HOSE AS						
	6	1	2G-6303	1	SEAL						
	7	1	2G-6304	1	STRAINER AS (ENGINE OIL)						
	8	1	2H-1258	1	BOX-ELECTRICAL						
	9	1	2H-1259	1	COVER-BOX DOOR						
Y	10	1	2N-7613	1	PUMP GP-PRELUBRICATION						223
	11	1	2W-3406	1	SUPPORT-SWITCH						
I	12	1	3N-4579	1	HOSE AS						
	13	1	3N-6935	1	VALVE-CHECK						
	14	1	3R-1059	2	FLANGE						
	15	1	4B-1243	2	SCREW-MACHINE (12-24X1/2-IN)						
	16	1	6N-8744	3	MOUNT						
	17	1	7L-5219	1	RELAY (PRELUBRICATION PUMP)						
I	18	1	9G-2653	1	HOSE AS						
	19	1	9M-7357	1	COUPLING AS						
I	20	1	9W-5215	1	HOSE AS						
	21	1	006-7750	1	SWITCH AS-PRESSURE (ENGINE OIL)						
		1	6V-8376	2	SCREW-MACHINE (8-32X0.25-IN)						
	22	1	113-5787	1	BRACKET AS						
	23	1	113-5788	2	WIRE AS						
	24	1	003-2143	1	ELBOW						
	25	1	004-6683	1	FITTING						
	26	1	004-7626	1	CONNECTOR (FLARED)						
	27	1	153-4906	1	SEAL-O-RING						
	28	1	0S-1571	2	BOLT (3/8-16X1.75-IN)						
	29	1	0S-1588	2	BOLT (3/8-16X1.25-IN)						
	30	1	0S-1594	7	BOLT (3/8-16X1-IN)						
	31	1	1A-5822	4	BOLT (1/2-13X2.75-IN)						
	32	1	1B-9575	4	BOLT (5/16-18X1.56-IN)						
	33	1	2B-2695	2	BOLT (5/16-18X0.875-IN)						
	34	1	2N-3378	1	ELBOW-FLARED						
	35	1	3B-4502	3	LOCKWASHER						
	36	1	3B-4503	2	LOCKWASHER						
	37	1	4B-1227	3	SCREW-MACHINE (10-24X3/8-IN)						
	38	1	5D-9231	1	CONNECTOR						
	39	1	5J-7303	1	ELBOW						
	40	1	5L-2579	3	GROMMET						
	41	1	5M-2894	10	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	42	1	5P-5846	2	SEAL-O-RING						
	43	1	5P-9617	1	ADAPTER						
	44	1	6B-4661	1	BUSHING-REDUCER						
	45	1	6V-5048	1	SEAL-O-RING						
	46	1	7L-7262	1	ELBOW-FLARED						
	47	1	8M-0547	1	ELBOW						
	48	1	8M-0755	1	CONNECTOR						
	49	1	9L-9132	3	WASHER (10.2X25.5X2.5-MM THK)						
	50	1	9M-1974	6	WASHER-HARD (8.8X16X2-MM THK)						

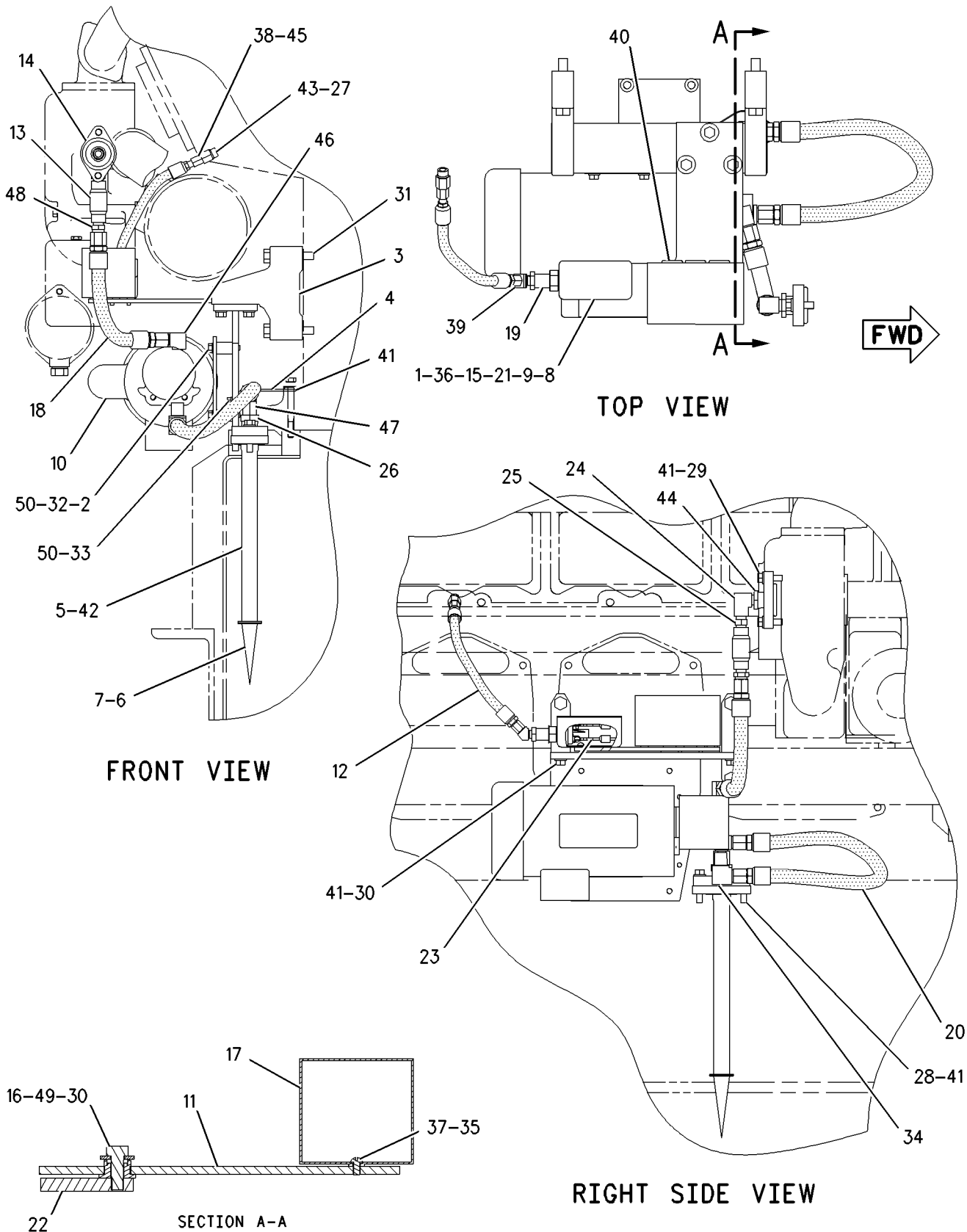
I-REFER TO HYDRAULIC INFORMATION SYSTEM

Y-SEPARATE ILLUSTRATION

LUBRICATION SYSTEM

113-4174 PUMP GP - PRELUBRICATION (contd.)

i02291627



GRAPHIC #1

<END>

g00916140

LUBRICATION SYSTEM

113-6996 PUMP GP-PRELUBRICATION

S/N: ZBA1-UP

AN ATTACHMENT

SMCS-1319

i02712762

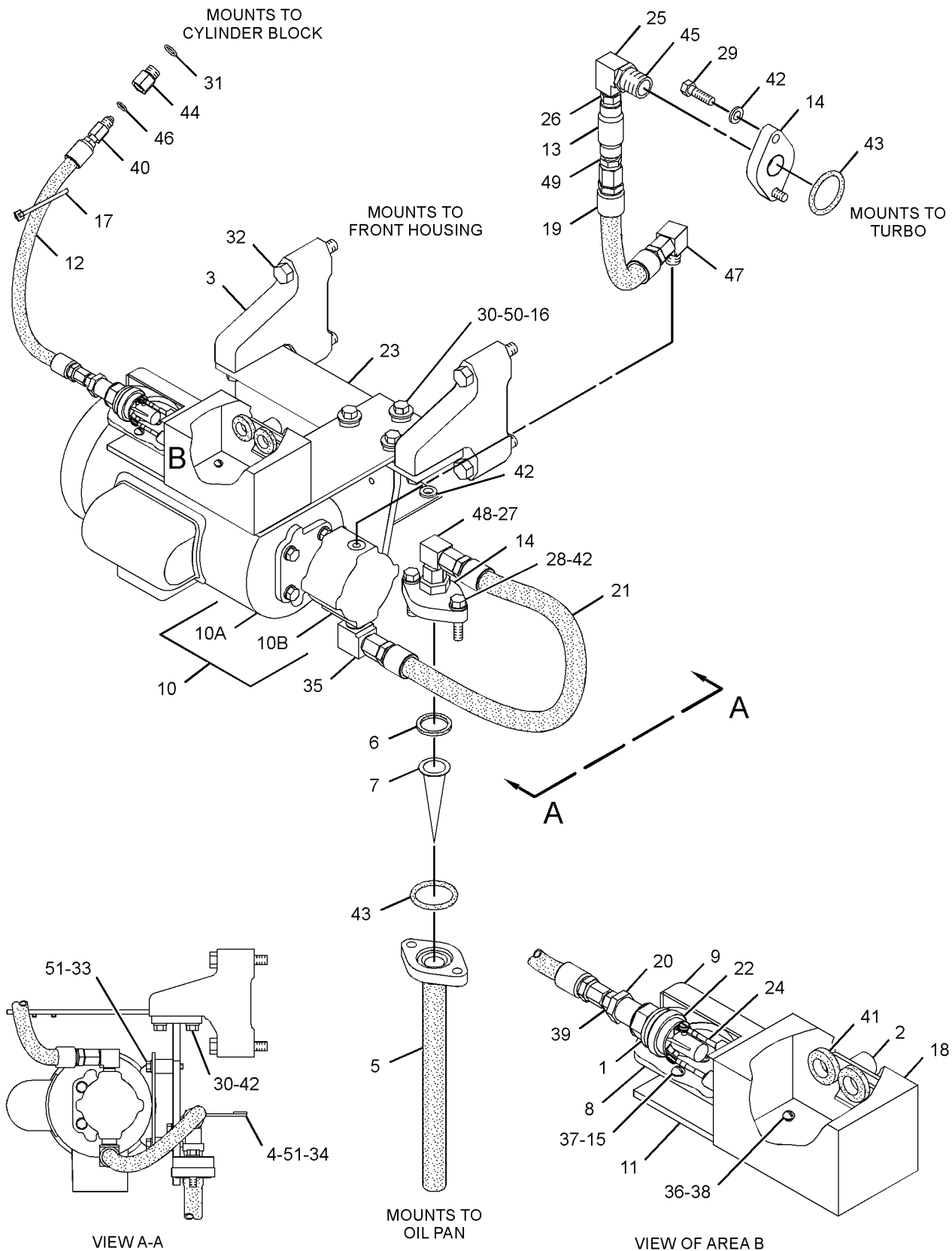
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	0L-1325	1	WASHER (0.78X1.3125X0.125-IN THK)						
	2	1	1M-3381	4	SPACER (0.438X0.75X1-IN THK)						
	3	1	1N-3872	2	SUPPORT						
	4	1	1W-4257	1	BRACKET AS						
		1	4K-9097	2	NUT-WELD (5/16-18-THD)						
	5	1	1W-4821	1	HOSE AS						
	6	1	2G-6303	1	SEAL						
	7	1	2G-6304	1	STRAINER AS (PRELUBRICATION PUMP)						
	8	1	2H-1258	1	BOX-ELECTRICAL						
	9	1	2H-1259	1	COVER-BOX DOOR						
	10	1	2W-0652	1	MOTOR AS-PUMP (PRELUBRICATION)						
	10A	1	3T-8826	1	MOTOR AS						
		1	3T-9374	1	CAPACITOR						
	10B	1	7N-4517	1	PUMP AS-GEAR						
	11	1	2W-3406	1	SUPPORT-SWITCH						
I	12	1	3N-4579	1	HOSE AS						
	13	1	3N-6935	1	VALVE-CHECK						
	14	1	3R-1059	2	FLANGE						
	15	1	4B-1243	2	SCREW-MACHINE (12-24X1/2-IN)						
	16	1	6N-8744	3	MOUNT						
	17	1	7K-1181	1	STRAP-CABLE						
	18	1	7L-5219	1	RELAY (PRELUBRICATION PUMP)						
I	19	1	9G-2653	1	HOSE AS						
	20	1	9M-7357	1	COUPLING AS						
I	21	1	9W-5215	1	HOSE AS						
	22	1	006-7750	1	SWITCH AS-PRESSURE (ENGINE OIL)						
		1	6V-8376	2	SCREW-MACHINE (8-32X0.25-IN)						
	23	1	113-5787	1	BRACKET AS						
	24	1	113-5788	2	WIRE AS						
	25	1	003-2143	1	ELBOW						
	26	1	004-6683	1	FITTING						
	27	1	004-7626	1	CONNECTOR (FLARED)						
	28	1	0S-1571	2	BOLT (3/8-16X1.75-IN)						
	29	1	0S-1588	2	BOLT (3/8-16X1.25-IN)						
	30	1	0S-1594	7	BOLT (3/8-16X1-IN)						
	31	1	153-4906	1	SEAL-O-RING						
	32	1	1A-5822	4	BOLT (1/2-13X2.75-IN)						
	33	1	1B-9575	4	BOLT (5/16-18X1.56-IN)						
	34	1	2B-2695	2	BOLT (5/16-18X0.875-IN)						
	35	1	2N-3378	1	ELBOW-FLARED						
	36	1	3B-4502	3	LOCKWASHER						
	37	1	3B-4503	2	LOCKWASHER						
	38	1	4B-1227	3	SCREW-MACHINE (10-24X3/8-IN)						
	39	1	4S-6399	1	CONNECTOR						
	40	1	5D-9231	1	CONNECTOR						
	41	1	5L-2579	3	GROMMET						
	42	1	5M-2894	10	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	43	1	5P-5846	2	SEAL-O-RING						
	44	1	5P-9617	1	ADAPTER						
	45	1	6B-4661	1	BUSHING-REDUCER						
	46	1	6V-5048	1	SEAL-O-RING						
	47	1	7L-7262	1	ELBOW-FLARED						
	48	1	8M-0547	1	ELBOW						
	49	1	8M-0755	1	CONNECTOR						
	50	1	9L-9132	3	WASHER (10.2X25.5X2.5-MM THK)						
	51	1	9M-1974	6	WASHER-HARD (8.8X16X2-MM THK)						

LUBRICATION SYSTEM

113-6996 PUMP GP - PRELUBRICATION (contd.)

i02712762

I - REFER TO HYDRAULIC INFORMATION SYSTEM



GRAPHIC #1

<END>

g01266896

LUBRICATION SYSTEM

302-8729 PUMP GP - PRELUBRICATION

S/N: ZBA1-UP

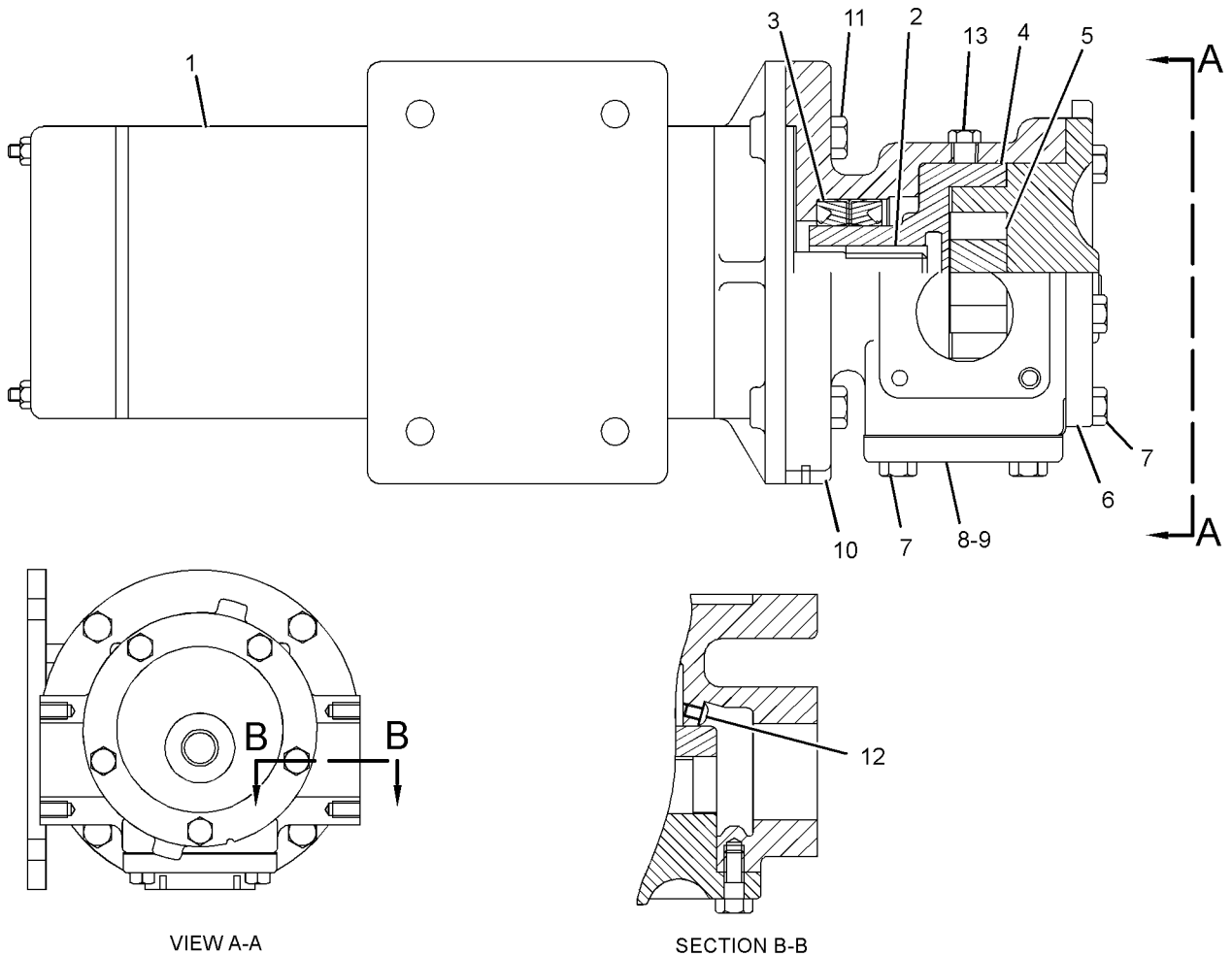
24-VOLT

PART OF 4P-4925, 4P-4926 PUMP & LINES GP - PRELUBRICATION
AN ATTACHMENT

SMCS-1319

i02715916

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	302-8728	1	MOTOR AS - PRELUBRICATION						
	2	1	008-8694	1	KEY						
	3	1	1H-5959	2	SEAL - LIP TYPE						
	4	1	6N-5595	1	ROTOR						
	5	1	2N-7523	1	IDLER AS (7-TEETH)						
	6	1	2N-7524	1	HEAD AS						
	7	1	0S-1617	9	BOLT (5/16-18X0.75-IN)						
	8	1	2N-7521	1	COVER						
	9	1	2N-7520	1	GASKET						
	10	1	5N-6668	1	HOUSING						
	11	1	0S-1588	4	BOLT (3/8-16X1.25-IN)						
	12	1	6D-3910	1	SCREW - BUTTON HEAD (10-32X0.25-IN)						
	13	1	5M-6214	2	PLUG - PIPE						



GRAPHIC #1

<END>

g01364349

LUBRICATION SYSTEM

5N-6237 PUMP GP-SUMP

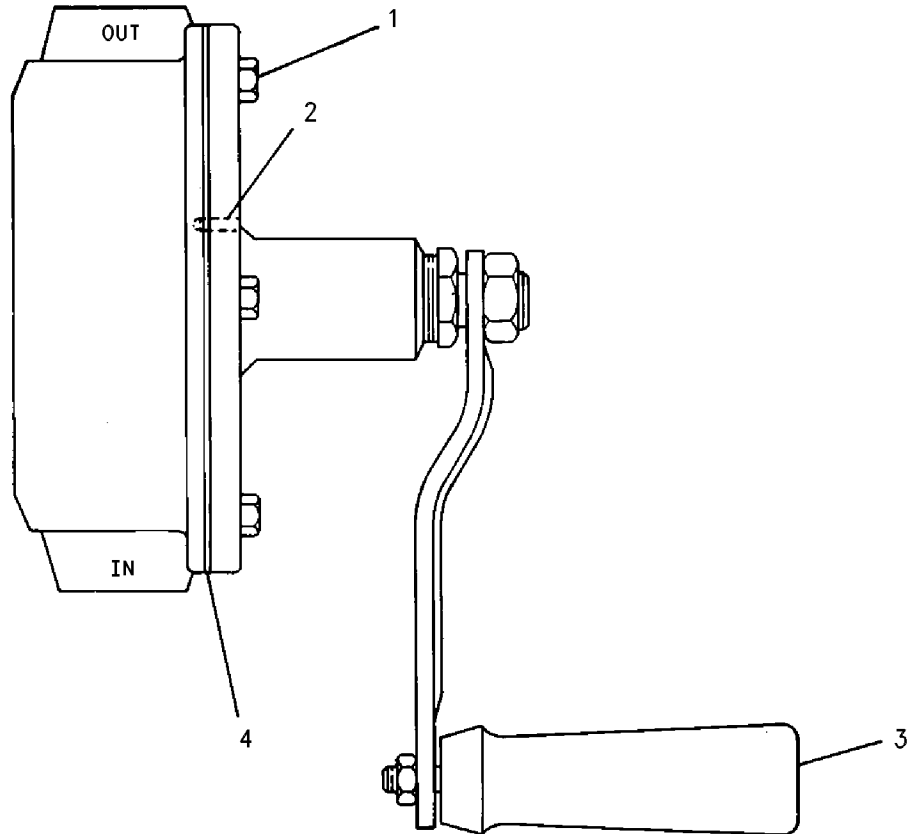
S/N: ZBA1-UP

PART OF 229-8349, 7W-9704 PUMP GP-SUMP
AN ATTACHMENT

SMCS-1324

i02656698

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	1	2	3	4	5	6 (PRODUCT LEVEL)	SEE PAGE
	1	1	2A-0762	6	BOLT (1/4-20X0.625- IN)						
	2	1	3N-3297	2	PIN-TAPERED						
	3	1	5N-6255	1	HANDLE AS						
B	4	1	3N-3299	1	GASKET SET (INCLUDES 4 GASKETS)						
					AVAILABLE REPAIR KIT(S) :						
			3N-3300	1	KIT-PUMP (SUMP)						
					(INCLUDES VANE , SPRING , PACKING , NUT & GASKET)						
B-USE AS REQUIRED											



GRAPHIC #1

<END>

g00621010

LUBRICATION SYSTEM

7W-9704 PUMP GP - SUMP

S/N: ZBA1-UP

AN ATTACHMENT

SMCS-1324

i01496567

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	5N-6237	1	PUMP GP-SUMP	230
	2	1	5N-6236	1	BRACKET	
	3	1	7X-2501	4	BOLT (1/4-20X1.25-IN)	
	4	1	8T-4205	8	WASHER-HARD (7.2X14.5X2-MM THK)	
	5	1	5N-6235	1	PLATE	
	6	1	5P-2566	2	BOLT (1/2-13X1.5-IN)	
	7	1	8T-4223	8	WASHER-HARD (13.5X25.5X3-MM THK)	
	8	1	6V-8188	4	NUT (1/2-13-THD)	
	9	1	8T-8919	2	BOLT (1/2-13X1.75-IN)	
	10	1	7X-7731	1	PLUG-PIPE	
	11	1	3B-7265	1	NIPPLE-PIPE	
	12	1	1K-6937	1	ELBOW-PIPE	
C	13	1	0L-0701	1	NUT (1-1/2-12-THD)	
	14	1	5F-6371	1	CONNECTOR	
	15	1	003-9163	1	ELBOW	
C	16	1	4P-5242	1	PICKUP AS-OIL	
C	17	1	1U-4738	1	WASHER (39.3X60X6-MM THK)	
C	18	1	4J-0521	1	SEAL-O-RING	

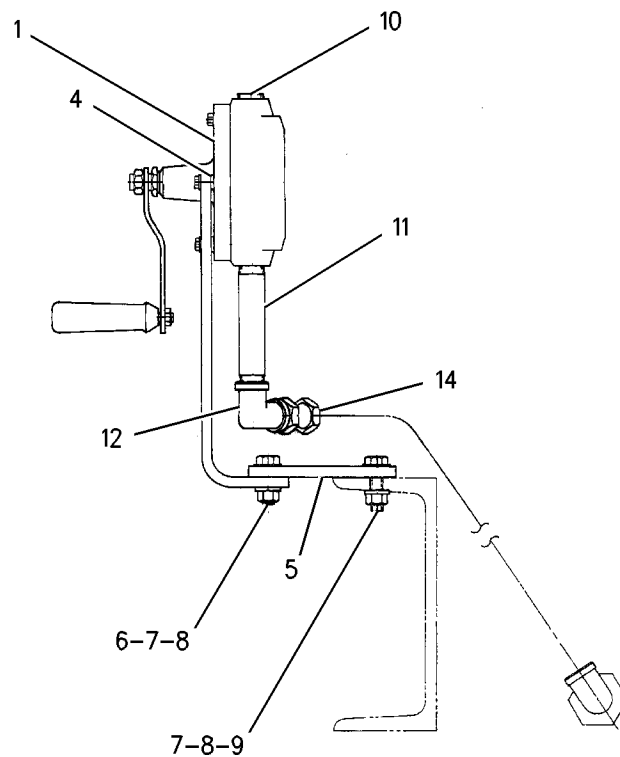
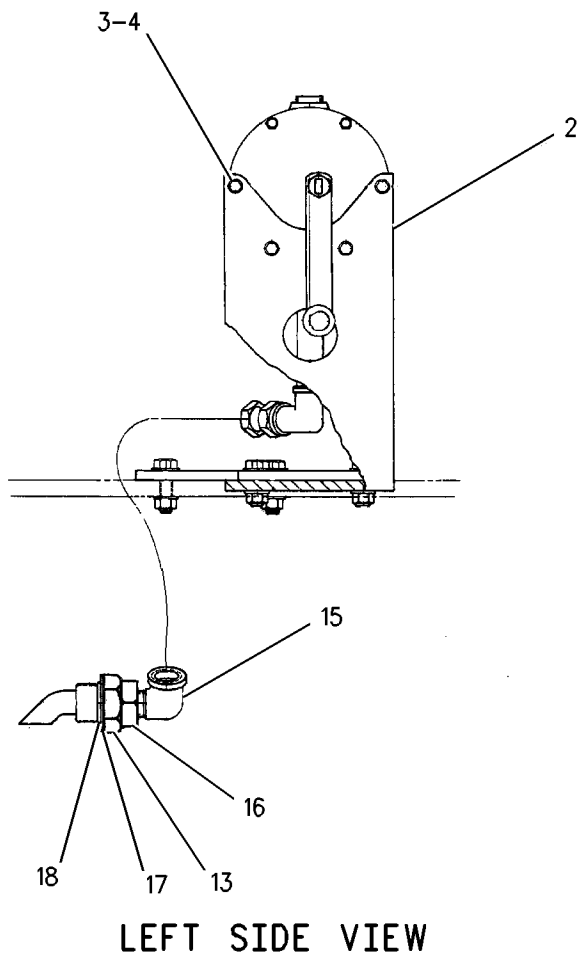
C- CHANGE FROM PREVIOUS TYPE

Y- SEPARATE ILLUSTRATION

LUBRICATION SYSTEM

7W-9704 PUMP GP - SUMP (contd.)

i01496567



GRAPHIC #1

<END>

g00776889

LUBRICATION SYSTEM

229-8349 PUMP GP - SUMP

S/N: ZBA1-UP

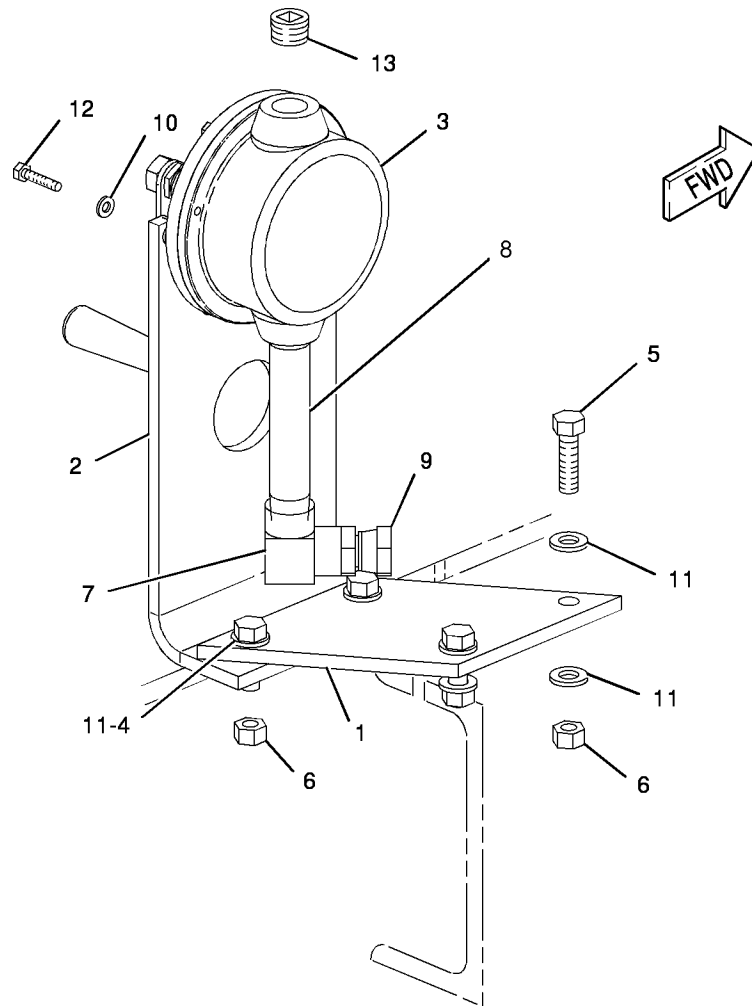
FOR USE WITH INDUSTRIAL RAILS
AN ATTACHMENT

SMCS-1324

i02220779

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	5N-6235	1	PLATE	
	2	1	5N-6236	1	BRACKET	
Y	3	1	5N-6237	1	PUMP GP - SUMP	230
	4	1	0S-1585	2	BOLT (1/2-13X1.5-IN)	
	5	1	0S-1587	2	BOLT (1/2-13X1.75-IN)	
	6	1	1F-7958	4	NUT-FULL (1/2-13-THD)	
	7	1	1K-6937	1	ELBOW-PIPE	
	8	1	3B-7265	1	NIPPLE-PIPE	
	9	1	5F-6371	1	CONNECTOR	
	10	1	5P-0537	8	WASHER-HARD (7.2X14.5X2-MM THK)	
	11	1	5P-8245	8	WASHER-HARD (13.5X25.5X3-MM THK)	
	12	1	7B-2742	4	BOLT (1/4-20X1.25-IN)	
	13	1	7X-7731	1	PLUG-PIPE	

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01007359

LUBRICATION SYSTEM

5N-4659 REGULATOR GP-OIL LEVEL

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1334

i02775326

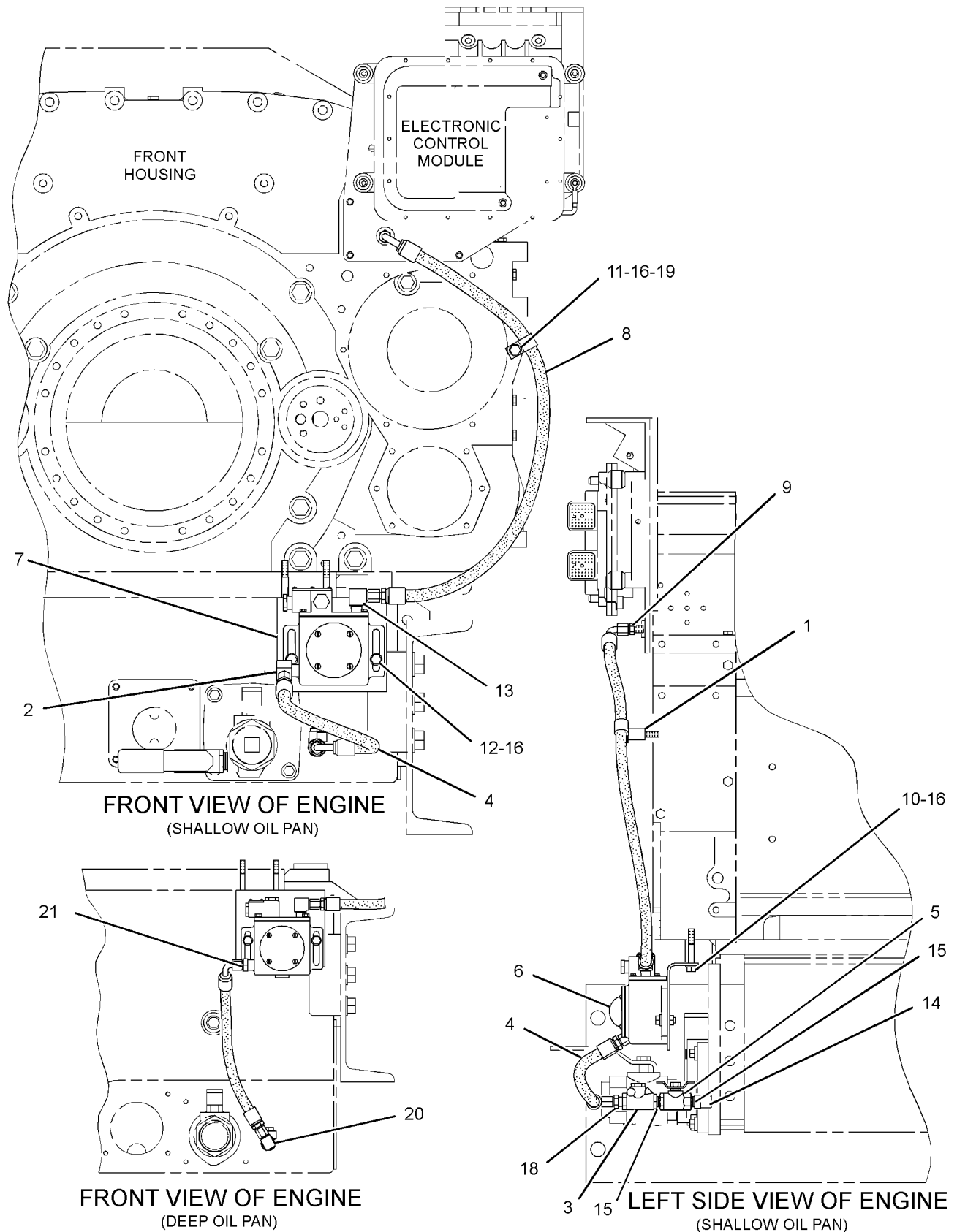
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	1	1	3L-6008	1	SPACER (10.5X19X28.6-MM THK)						
C	2	1	7D-8793	1	ELBOW-FLARED						
	3	1	7W-4979	1	VALVE GP (CHECK)						
CI	4	1	113-9001	1	HOSE AS						
	5	1	169-7326	1	VALVE-BALL (SHUTOFF, OIL)						
C	6	1	213-6133	1	REGULATOR AS (OIL LEVEL)						
C	7	1	214-3091	1	BRACKET AS						
		1	1F-0750	2	NUT-WELD (3/8-16-THD)						
CI	8	1	216-8359	1	HOSE AS						
C	9	1	032-1267	1	CONNECTOR						
	10	1	0L-1143	2	BOLT (3/8-16X2.5-IN)						
C	11	1	0L-2070	1	BOLT (3/8-16X2.25-IN)						
	12	1	0S-1594	2	BOLT (3/8-16X1-IN)						
C	13	1	2N-8037	1	ELBOW						
	14	1	3B-7255	1	BUSHING-REDUCING						
	15	1	3B-7741	2	FITTING						
C	16	1	5M-2894	5	WASHER-HARD (10.2X18.5X2.5-MM THK)						
C	18	1	8L-3282	1	CONNECTOR						
C	19	1	8M-2773	1	CLIP						
BC	20	1	6K-9194	1	ELBOW-FLARED						
B	21	1	7D-5363	1	CONNECTOR						

B-USE AS REQUIRED
C-CHANGE FROM PREVIOUS TYPE
I-REFER TO HYDRAULIC INFORMATION SYSTEM

LUBRICATION SYSTEM

5N-4659 REGULATOR GP-OIL LEVEL (contd.)

i02775326



GRAPHIC #1

<END>

g01292552

LUBRICATION SYSTEM

216-8347 REGULATOR GP-OIL LEVEL

S/N: ZBA1-UP

FOR USE WITH 2-SIDED FRONT HOUSING
AN ATTACHMENT

SMCS-1334

i02089038

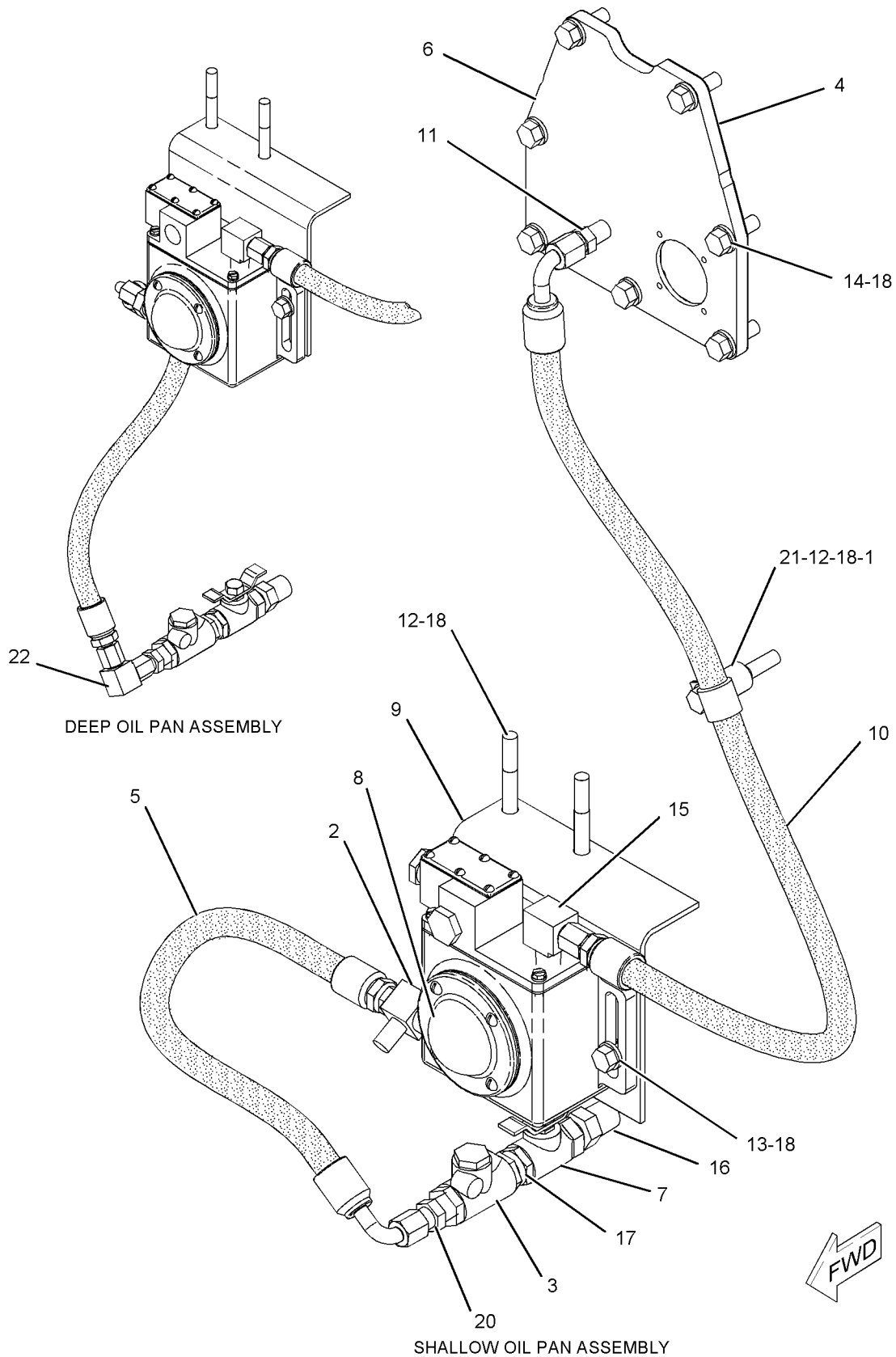
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3L-6008	1	SPACER (10.5X19X28.6-MM THK)						
	2	1	7D-8793	1	ELBOW-FLARED						
	3	1	7W-4979	1	VALVE GP (CHECK)						
	4	1	8N-9885	1	GASKET-COVER						
I	5	1	113-9001	1	HOSE AS						
	6	1	138-1957	1	COVER						
	7	1	169-7326	1	VALVE-BALL (SHUTOFF, OIL)						
	8	1	213-6133	1	REGULATOR AS (OIL LEVEL)						
	9	1	214-3091	1	BRACKET AS						
		1	1F-0750	2	NUT-WELD (3/8-16-THD)						
I	10	1	216-8359	1	HOSE AS						
	11	1	032-1267	1	CONNECTOR						
C	12	1	0L-1143	3	BOLT (3/8-16X2.5-IN)						
	13	1	0S-1594	2	BOLT (3/8-16X1-IN)						
	14	1	1A-2029	7	BOLT (3/8-16X1.125-IN)						
	15	1	2N-8037	1	ELBOW						
	16	1	3B-7255	1	BUSHING-REDUCING						
	17	1	3B-7741	2	FITTING						
C	18	1	5M-2894	12	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	20	1	8L-3282	1	CONNECTOR						
	21	1	8M-2773	1	CLIP						
B	22	1	6K-9194	1	ELBOW-FLARED						

B-USE AS REQUIRED
C-CHANGE FROM PREVIOUS TYPE
I-REFER TO HYDRAULIC INFORMATION SYSTEM

LUBRICATION SYSTEM

216-8347 REGULATOR GP-OIL LEVEL (contd.)

i02089038



GRAPHIC #1

g01065408

LUBRICATION SYSTEM

7W-3816 VALVE GP-FLUID CONTROL-DUPLEX OIL

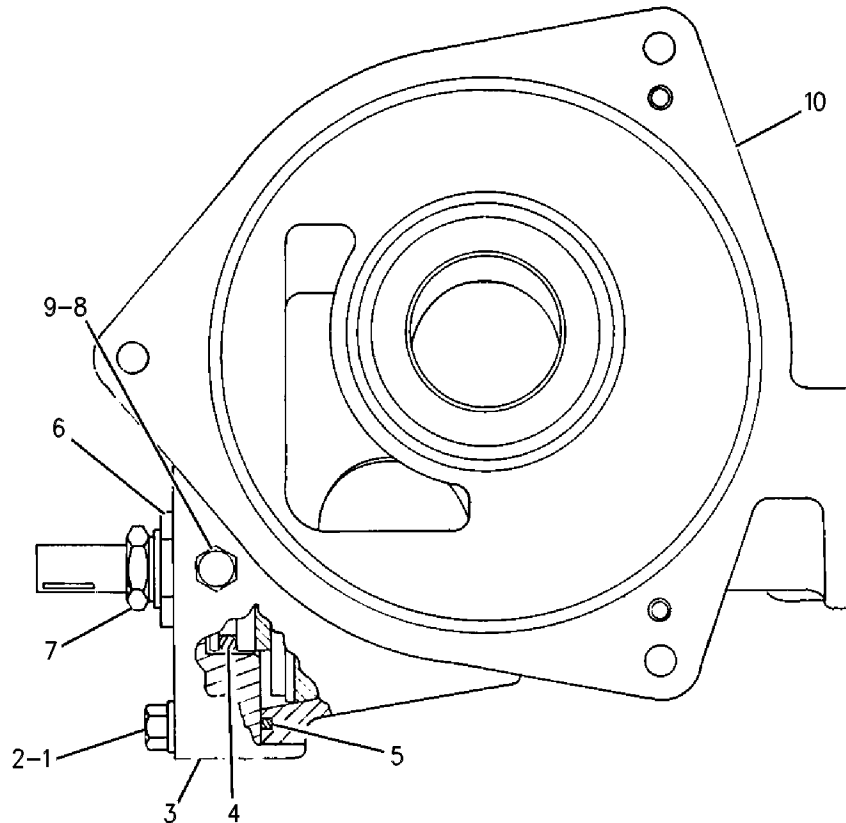
S/N: ZBA1-UP

PART OF 134-0975, 4W-9968 FILTER GP-ENGINE OIL
AN ATTACHMENT

SMCS-7560

i02640558

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	0S-1571	2	BOLT (3/8-16X1.75-IN)						
	2	1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	3	1	2W-0013	1	COVER AS						
		1	7S-2245	1	DOWEL						
		1	3H-2617	1	PIN-SPRING						
	4	1	9M-2610	1	SEAL-O-RING						
	5	1	5D-5957	1	SEAL-O-RING						
	6	1	3B-7329	1	NUT (1-14-THD)						
	7	1	5H-7225	1	NUT-RETAINER (1-11/16-THD)						
	8	1	9S-4182	1	PLUG-O RING						
	9	1	6V-5048	1	SEAL-O-RING						
	10	1	2W-9210	1	VALVE AS-OIL (DUPLEX)						
		1	4H-6996	1	PIN-SPRING						
		1	7N-2043	3	DOWEL						



GRAPHIC #1

<END>

g00623922

LUBRICATION SYSTEM

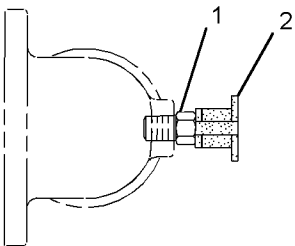
147-3738 VALVE GP-FLUID SAMPLING-OIL

S/N: ZBA1-UP
AN ATTACHMENT

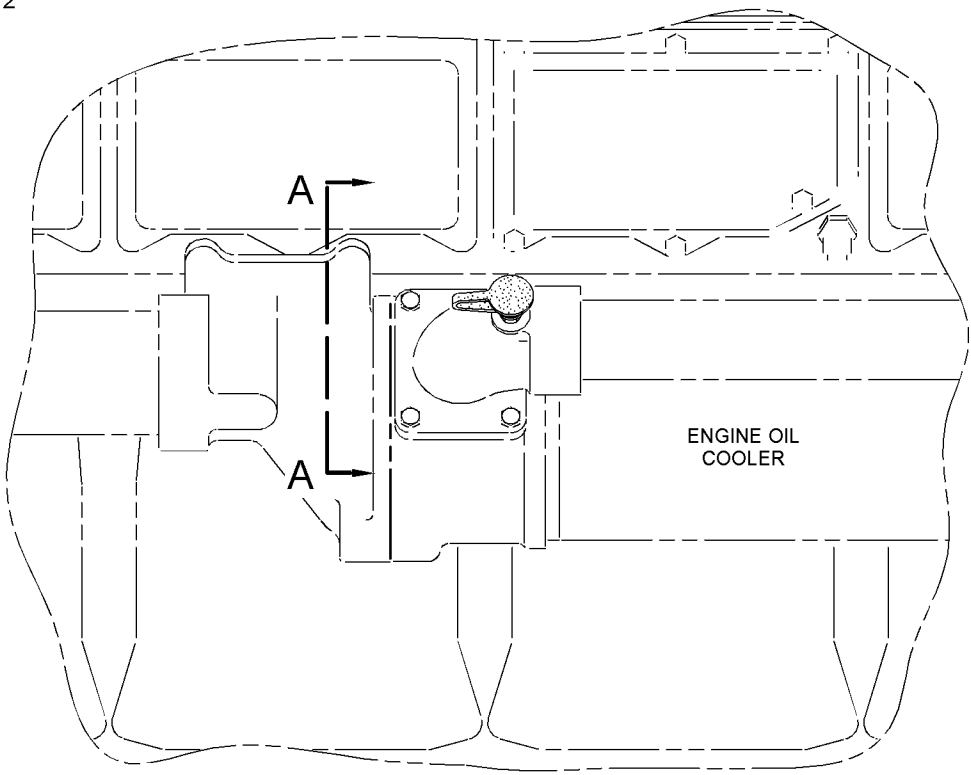
SMCS-7542

i02537914

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	7X-3387	1	VALVE AS-FLUID SAMPLING (OIL COOLER)	
	2	1	8C-3445	1	CAP-DUST	



VIEW A-A



RIGHT SIDE VIEW OF ENGINE

GRAPHIC #1

<END>

g01284511

COOLING SYSTEM

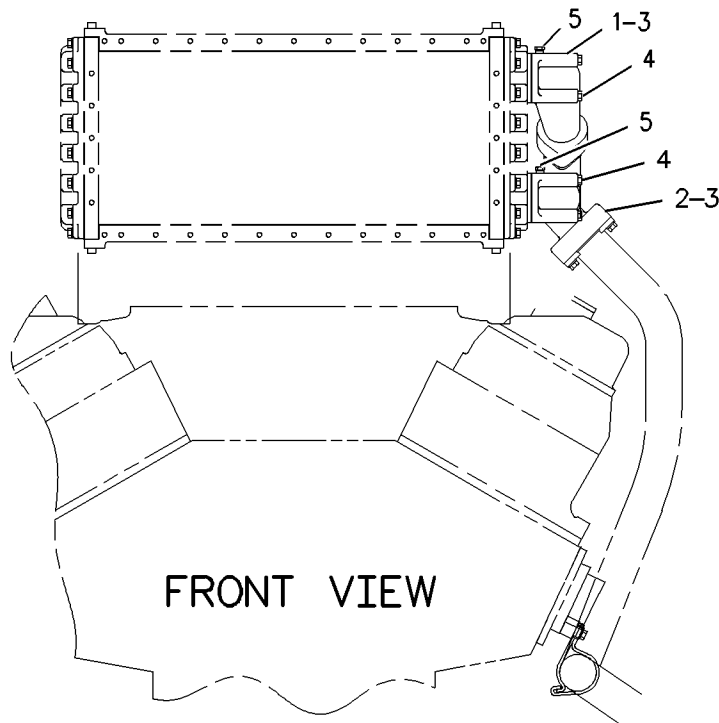
4P-3531 CONNECTION GP-WATER-AFTERCOOLER

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1380

i02220684

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4P-0332	1	ELBOW						
	2	1	4P-0333	1	ELBOW						
	3	1	4P-0334	2	GASKET-ELBOW						
	4	1	OS-1608	8	BOLT (3/8-16X3.75-IN)						
	5	1	8T-6765	2	PLUG-PIPE						



GRAPHIC #1

<END>

g00987747

COOLING SYSTEM

4P - 7072 CONNECTION GP-WATER-OUTLET, LH

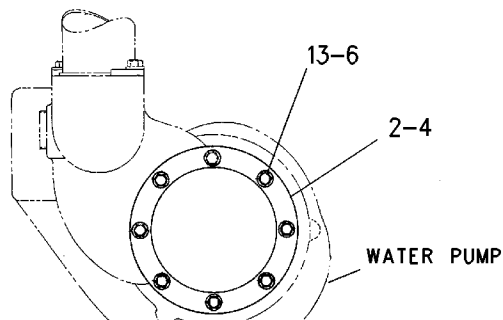
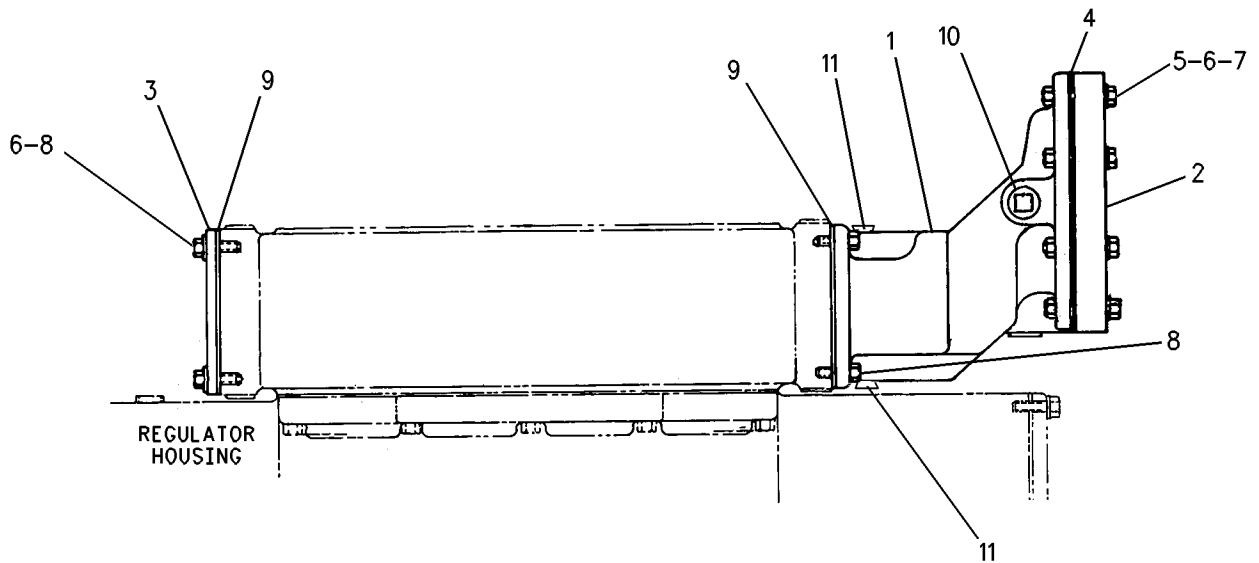
S/N: ZBA1-UP

AN ATTACHMENT

SMCS-1380

i02155557

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1W-2639	1	ADAPTER-EXCHANGER						
	2	1	7N-7009	2	FLANGE						
	3	1	7E-6017	1	COVER						
	4	1	1S-5772	2	GASKET						
	5	1	0S-1590	8	BOLT (3/8-16X2-IN)						
	6	1	5M-2894	20	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	7	1	9S-8752	8	NUT-FULL (3/8-16-THD)						
	8	1	0S-1594	8	BOLT (3/8-16X1-IN)						
	9	1	7E-6016	2	GASKET						
	10	1	8T-6762	3	PLUG-PIPE						
	11	1	8T-6758	2	PLUG-PIPE						
	13	1	0S-1591	8	BOLT (3/8-16X1.5-IN)						



FRONT VIEW

GRAPHIC #1

<END>

g00988218

COOLING SYSTEM

7W-6372 CONNECTION GP-WATER-OUTLET

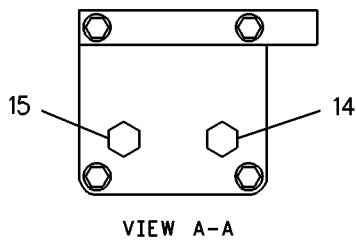
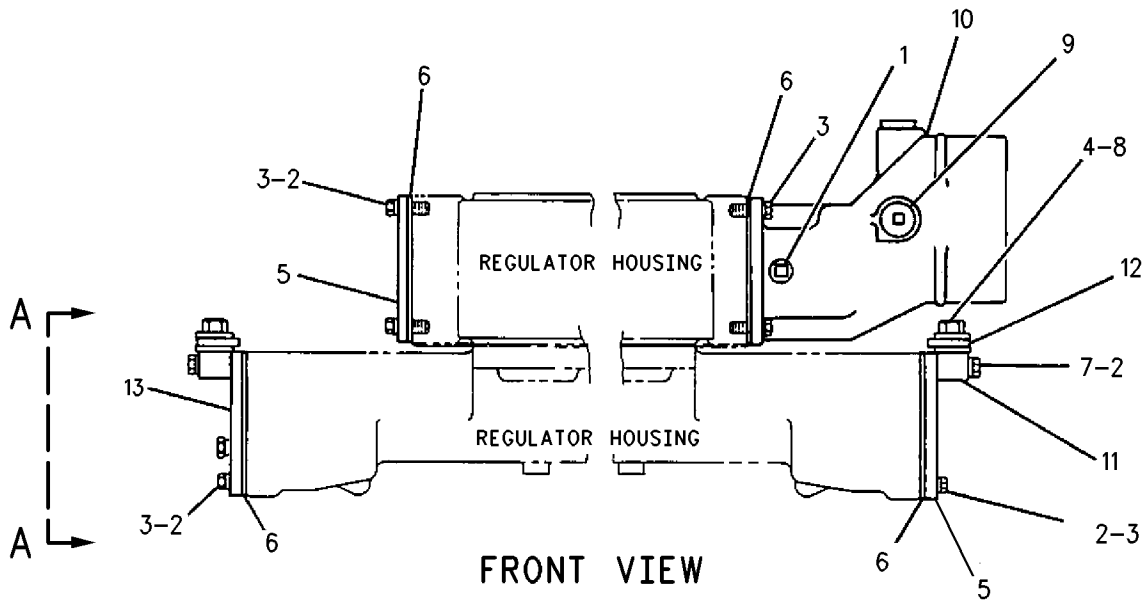
S/N: ZBA1-UP

CANNOT BE USED WITH SPIN-ON FUEL FILTERS

SMCS-1380

i02220734

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-6758	2	PLUG-PIPE						
	2	1	5M-2894	12	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	3	1	0S-1594	12	BOLT (3/8-16X1-IN)						
	4	1	0S-1585	2	BOLT (1/2-13X1.5-IN)						
	5	1	7E-6017	2	COVER						
	6	1	7E-6016	4	GASKET						
	7	1	0S-1590	4	BOLT (3/8-16X2-IN)						
	8	1	5P-1076	4	WASHER-HARD (13.5X30X4-MM THK)						
	9	1	8T-6762	3	PLUG-PIPE						
	10	1	7N-6560	1	ADAPTER-CONNECTOR						
	11	1	2W-4334	2	BAR						
	12	1	7E-6334	2	PLATE						
	13	1	119-6294	1	COVER						
	14	1	7W-6492	1	PLUG-PIPE						
	15	1	3E-7430	1	PLUG-PIPE						



GRAPHIC #1

<END>

g00715443

COOLING SYSTEM

8N-8993 CONNECTION GP-WATER-INLET, LH

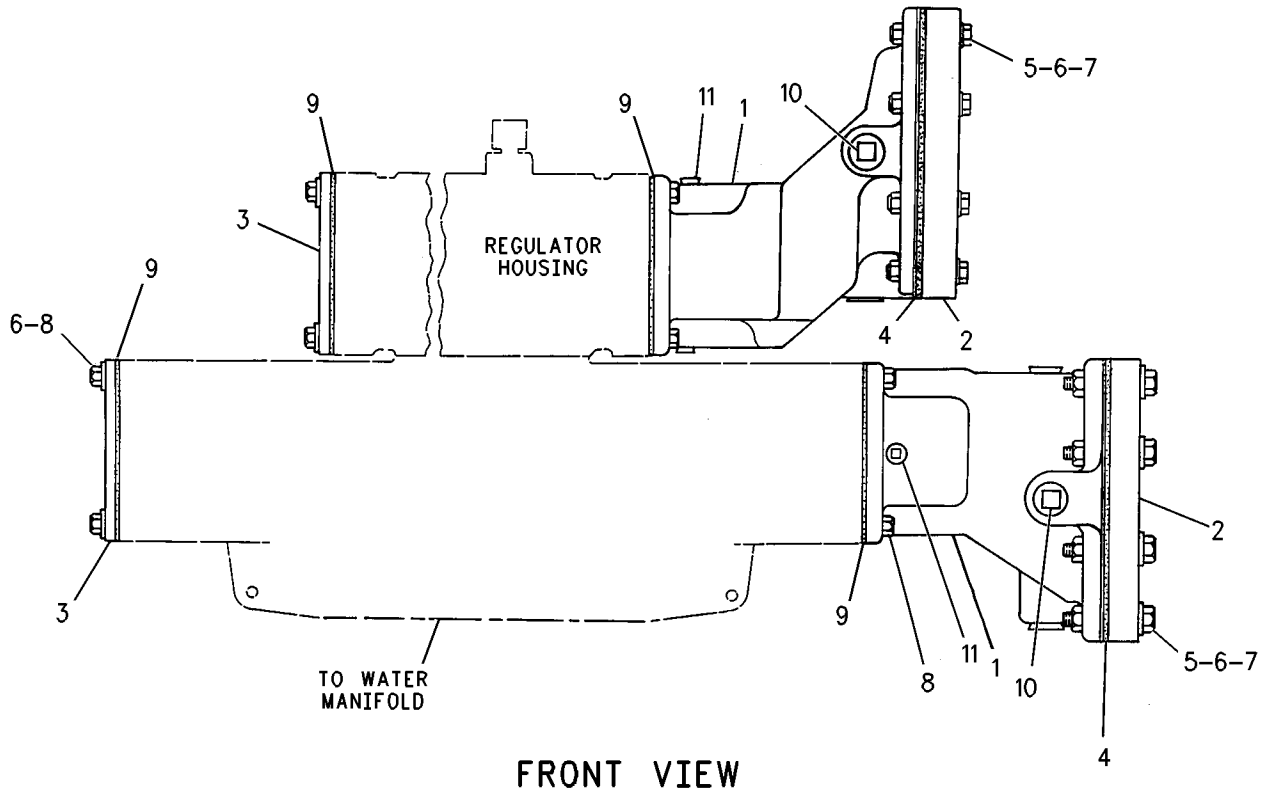
S/N: ZBA1-UP

PART OF 4P-4333 TANK GP-EXPANSION
AN ATTACHMENT

SMCS-1380

i02356688

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1W-2639	2	ADAPTER-EXCHANGER						
	2	1	7N-7009	2	FLANGE						
	3	1	7E-6017	2	COVER						
	4	1	1S-5772	2	GASKET						
	5	1	0S-1590	16	BOLT (3/8-16X2-IN)						
	6	1	5M-2894	24	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	7	1	9S-8752	16	NUT-FULL (3/8-16-THD)						
	8	1	0S-1594	16	BOLT (3/8-16X1-IN)						
	9	1	7E-6016	4	GASKET						
	10	1	8T-6762	6	PLUG-PIPE						
	11	1	8T-6758	4	PLUG-PIPE						



GRAPHIC #1

<END>

g00863463

COOLING SYSTEM

9Y-8179 CONNECTION GP-WATER-INLET, OUTLET

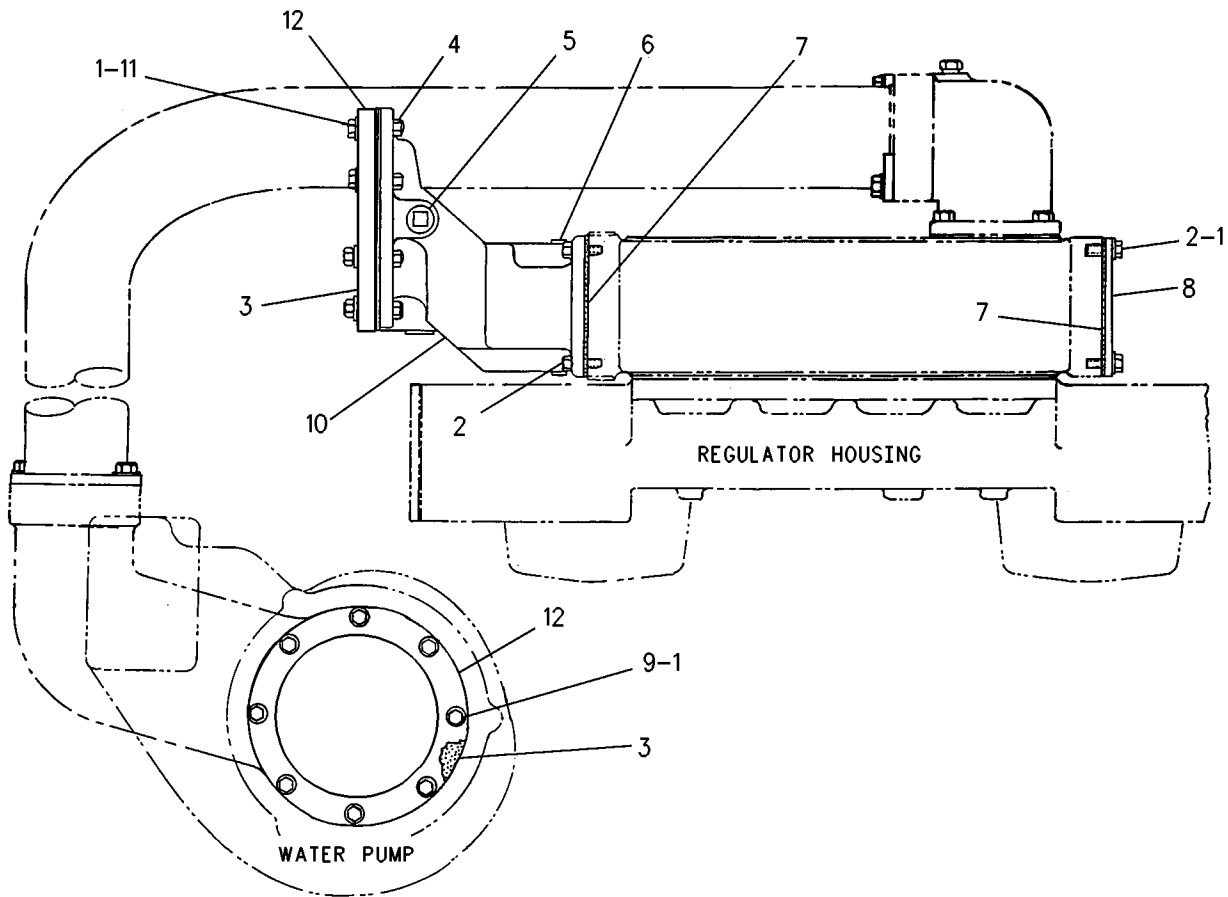
S/N: ZBA1-UP

CANNOT BE USED WITH 2-CIRCUIT AND 3-CIRCUIT HIGH TEMPERATURE WATER CONVERSION AR
AN ATTACHMENT

SMCS-1380

i02220744

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5M-2894	20	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	2	1	0S-1594	8	BOLT (3/8-16X1-IN)						
	3	1	1S-5772	2	GASKET						
	4	1	9S-8752	8	NUT-FULL (3/8-16-THD)						
	5	1	8T-6762	3	PLUG-PIPE						
	6	1	8T-6758	2	PLUG-PIPE						
	7	1	7E-6016	2	GASKET						
	8	1	7E-6017	1	COVER						
	9	1	0S-1591	8	BOLT (3/8-16X1.5-IN)						
	10	1	1W-2639	1	ADAPTER-EXCHANGER						
	11	1	0S-1590	8	BOLT (3/8-16X2-IN)						
	12	1	7N-7009	2	FLANGE						



FRONT VIEW

GRAPHIC #1

<END>

g00918321

COOLING SYSTEM

120-3951 CONNECTION GP-WATER

S/N: ZBA1-UP

PART OF 120-4107, 120-6124, 129-8220 CONVERSION AR
AN ATTACHMENT

SMCS-1380

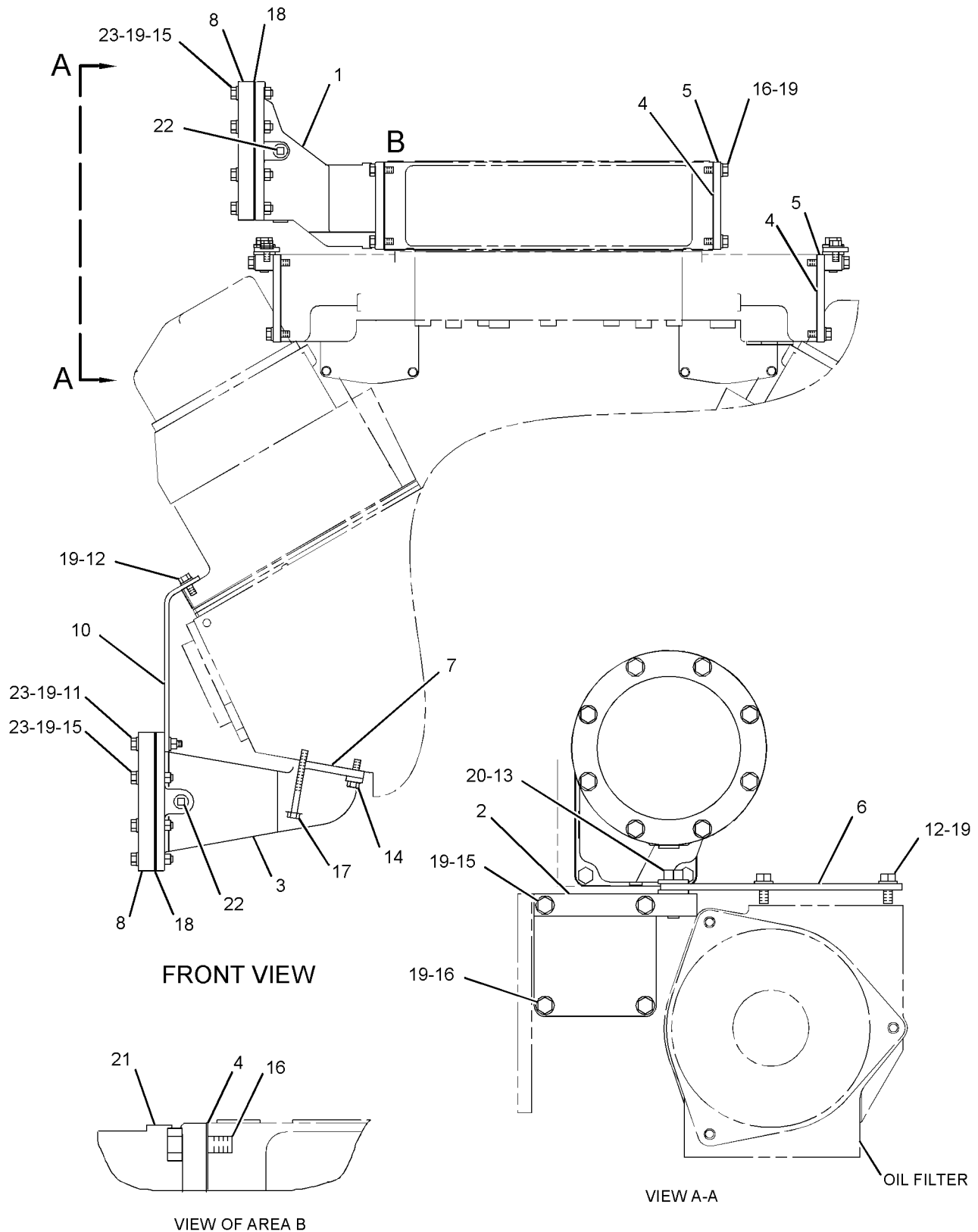
i02409749

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1W-2639	1	ADAPTER-EXCHANGER						
	2	1	2W-4334	2	BAR						
	3	1	7E-0017	1	ELBOW						
	4	1	7E-6016	4	GASKET						
	5	1	7E-6017	3	COVER						
	6	1	7E-6334	2	PLATE						
	7	1	7N-4945	1	GASKET						
	8	1	7N-7009	2	FLANGE						
	10	1	120-3955	1	BRACKET						
	11	1	0L-1143	2	BOLT (3/8-16X2.5-IN)						
	12	1	0L-1351	6	BOLT (3/8-16X0.875-IN)						
	13	1	0S-1585	2	BOLT (1/2-13X1.5-IN)						
	14	1	0S-1588	2	BOLT (3/8-16X1.25-IN)						
	15	1	0S-1590	18	BOLT (3/8-16X2-IN)						
	16	1	0S-1594	12	BOLT (3/8-16X1-IN)						
	17	1	0T-0065	2	BOLT (3/8-16X3.5-IN)						
	18	1	1S-5772	2	GASKET						
	19	1	5M-2894	36	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	20	1	5P-1076	4	WASHER-HARD (13.5X30X4-MM THK)						
	21	1	8T-6758	2	PLUG-PIPE						
	22	1	8T-6762	5	PLUG-PIPE						
	23	1	9S-8752	16	NUT-FULL (3/8-16-THD)						

COOLING SYSTEM

120-3951 CONNECTION GP-WATER (contd.)

i02409749



GRAPHIC #1

<END>

g01241884

COOLING SYSTEM

4P-9087 CONVERSION GP

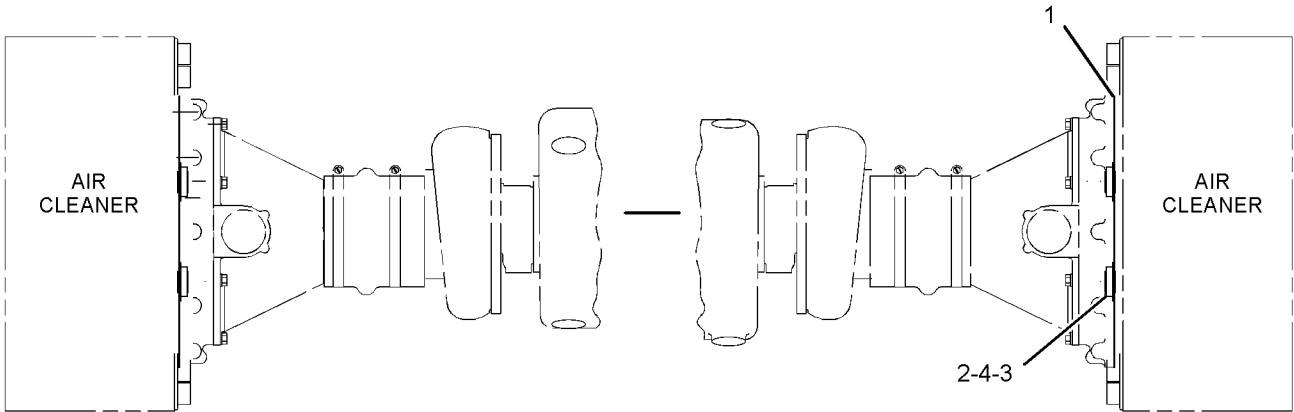
S/N: ZBA1-UP

REQUIRES LOW PRESSURE GAS LANDFILL ENGINE
AN ATTACHMENT

SMCS-1000

i02808806

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
B	1	1	4P-6719	2	GASKET						
	2	1	7E-1569	8	WASHER (9.9X31.81X1.3-MM THK)						
	3	1	7E-1581	4	JET-GAS						
	4	1	157-8048	4	VALVE-GAS						
B-USE AS REQUIRED											



GRAPHIC #1

<END>

g01401739

COOLING SYSTEM

7E-4825 CONVERSION GP

S/N: ZBA1-UP

REQUIRES HIGH PRESSURE GAS LANDFILL ENGINE
AN ATTACHMENT

SMCS-1000

i00930228

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	4W-9725	1	GASKET						
	7W-4149	1	GASKET						
	7E-1581	2	JET - GAS						
	139-4178	2	VALVE - GAS						
<END>									

COOLING SYSTEM

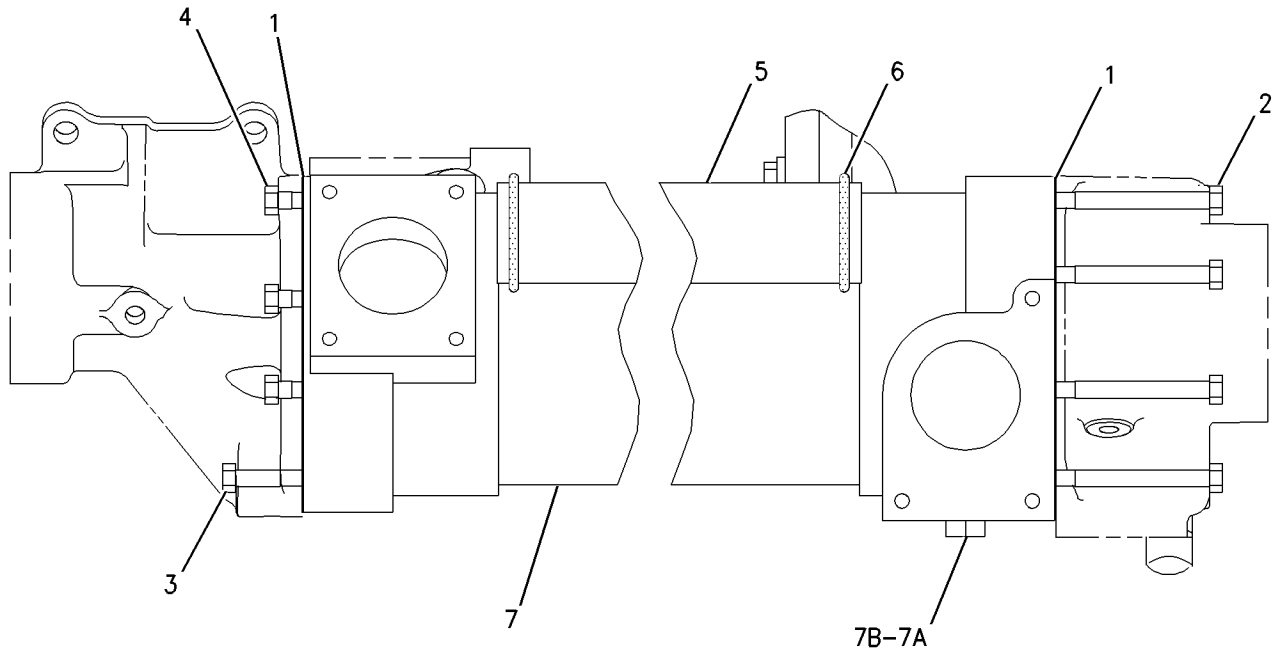
4W-5891 COOLER GP-ENGINE OIL

S/N: ZBA1-UP

SMCS-1378

i02046622

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	247-3796	2	GASKET						
	2	1	8S-9191	8	BOLT (3/8-16X4-IN)						
	3	1	0S-1590	2	BOLT (3/8-16X2-IN)						
	4	1	1A-2029	6	BOLT (3/8-16X1.125-IN)						
	5	1	7W-1930	1	TUBE						
	6	1	109-2332	2	SEAL-O-RING						
R	7	1	4W-5405	1	CORE GP-OIL COOLER						
	7A	1	9S-4185	1	PLUG-O RING						
	7B	1	8L-2786	1	SEAL-O-RING						
R-REMFG PART MAY BE AVAILABLE											



GRAPHIC #1

<END>

g00838163

COOLING SYSTEM

256 - 3649 COOLER GP - ENGINE OIL

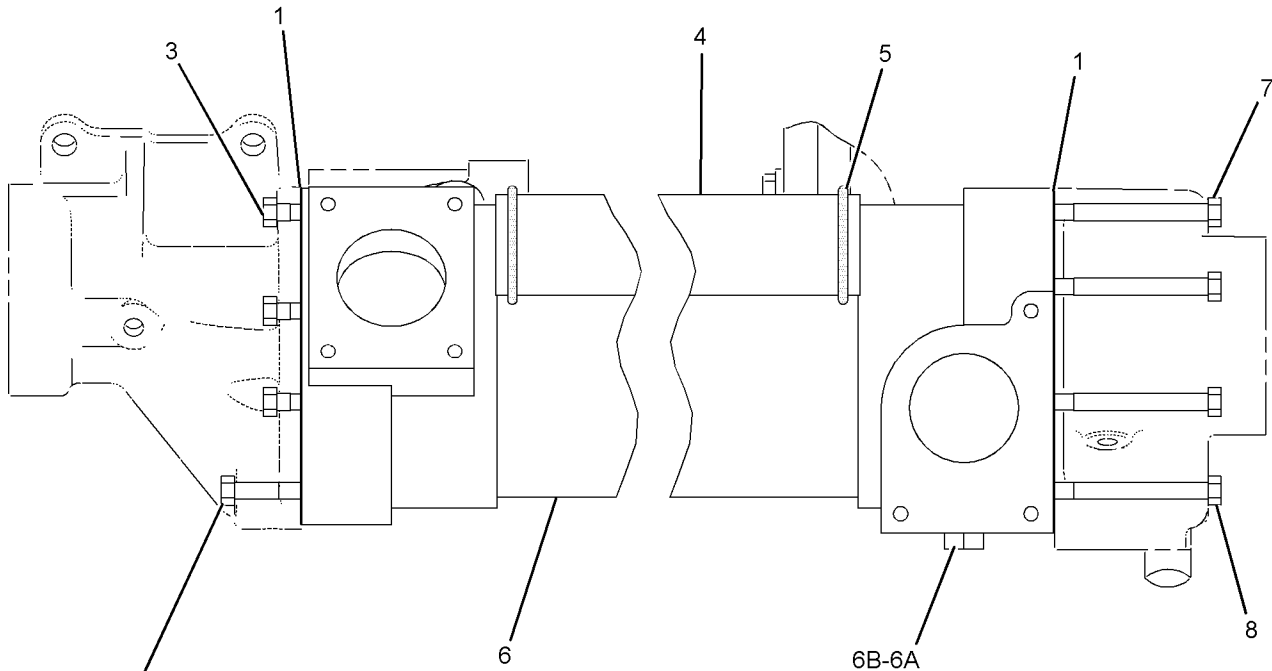
S/N: ZBA1-UP

SMCS-1378

i02156410

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	247-3796	2	GASKET						
	2	1	0S-1590	2	BOLT (3/8-16X2-IN)						
	3	1	1A-2029	6	BOLT (3/8-16X1.125-IN)						
	4	1	7W-1930	1	TUBE						
	5	1	109-2332	2	SEAL-O-RING						
R	6	1	4W-5405	1	CORE GP-OIL COOLER						
	6A	1	9S-4185	1	PLUG-O RING						
	6B	1	8L-2786	1	SEAL-O-RING						
	7	1	8S-9191	7	BOLT (3/8-16X4-IN)						
	8	1	1A-5183	1	BOLT (3/8-16X4.75-IN)						

R-REMFG PART MAY BE AVAILABLE



GRAPHIC #1

<END>

g01095715

COOLING SYSTEM

7W-5639 FAN GP-BLOWER

S/N: ZBA1-UP

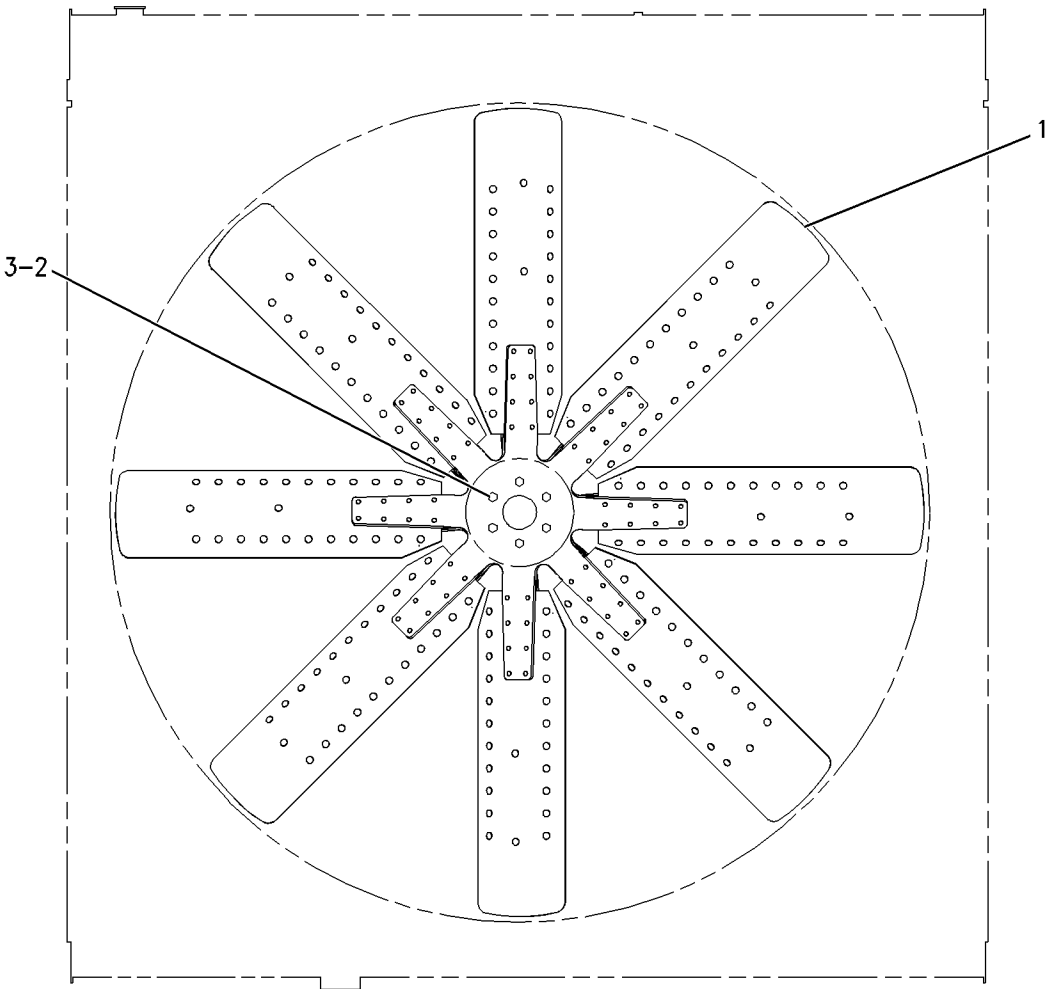
1829-MM DIAMETER. STANDARD ROTATION

FOR USE WITH ENGINE MOUNTED FAN DRIVE AND FOLDED CORE RADIATOR
AN ATTACHMENT

SMCS-1356, 1360

i02233252

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	115-1783	1	SPIDER AS-FAN (8-BLADE)						
	2	1	8T-4835	6	BOLT (1/2-13X2-IN)						
	3	1	8T-4223	6	WASHER-HARD (13.5X25.5X3-MM THK)						



GRAPHIC #1

<END>

g00651053

COOLING SYSTEM

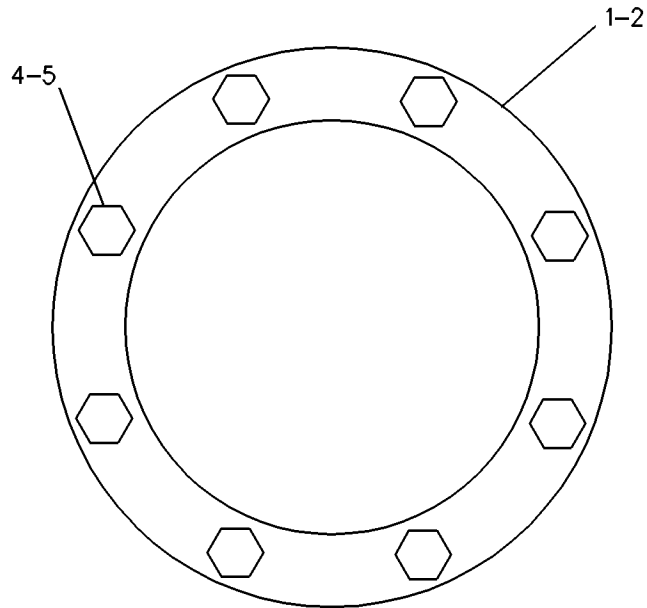
6I - 0999 FLANGE GP - COOLANT LINES

S/N: ZBA1-UP
AN ATTACHMENT

SMCS - 1380

i02220706

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1S-5772	1	GASKET						
	2	1	7N-7009	1	FLANGE						
	4	1	0S-1591	8	BOLT (3/8-16X1.5-IN)						
	5	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)						



GRAPHIC #1

<END>

g00779046

COOLING SYSTEM

270-3930 HOUSING & REGULATOR GP

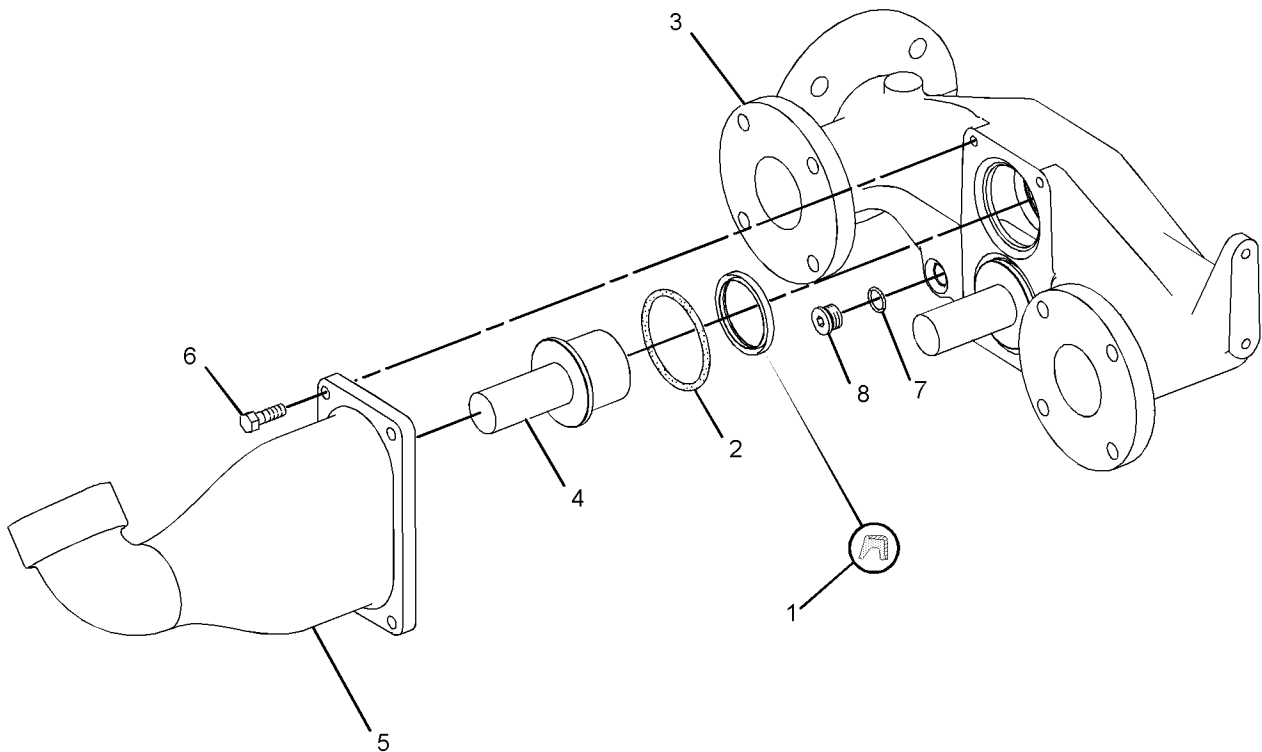
S/N: ZBA205-UP

PART OF 270-3898 REGULATOR GP-TEMPERATURE

SMCS-1355, 1393

i02834168

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3S-9643	2	SEAL-LIP TYPE (WATER TEMPERATURE REGULATOR)						
	2	1	6V-1454	2	SEAL-O-RING						
	3	1	214-0728	1	HOUSING						
	4	1	219-3306	2	REGULATOR-WATER TEMPERATURE (55-DEG C)						
	5	1	264-3073	1	ADAPTER						
	6	1	1A-2029	4	BOLT (3/8-16X1.125-IN)						
	7	1	3K-0360	2	SEAL-O-RING						
	8	1	9S-8005	2	PLUG-O-RING						



GRAPHIC #1

<END>

g01217654

COOLING SYSTEM

283-3438 HOUSING & REGULATOR GP

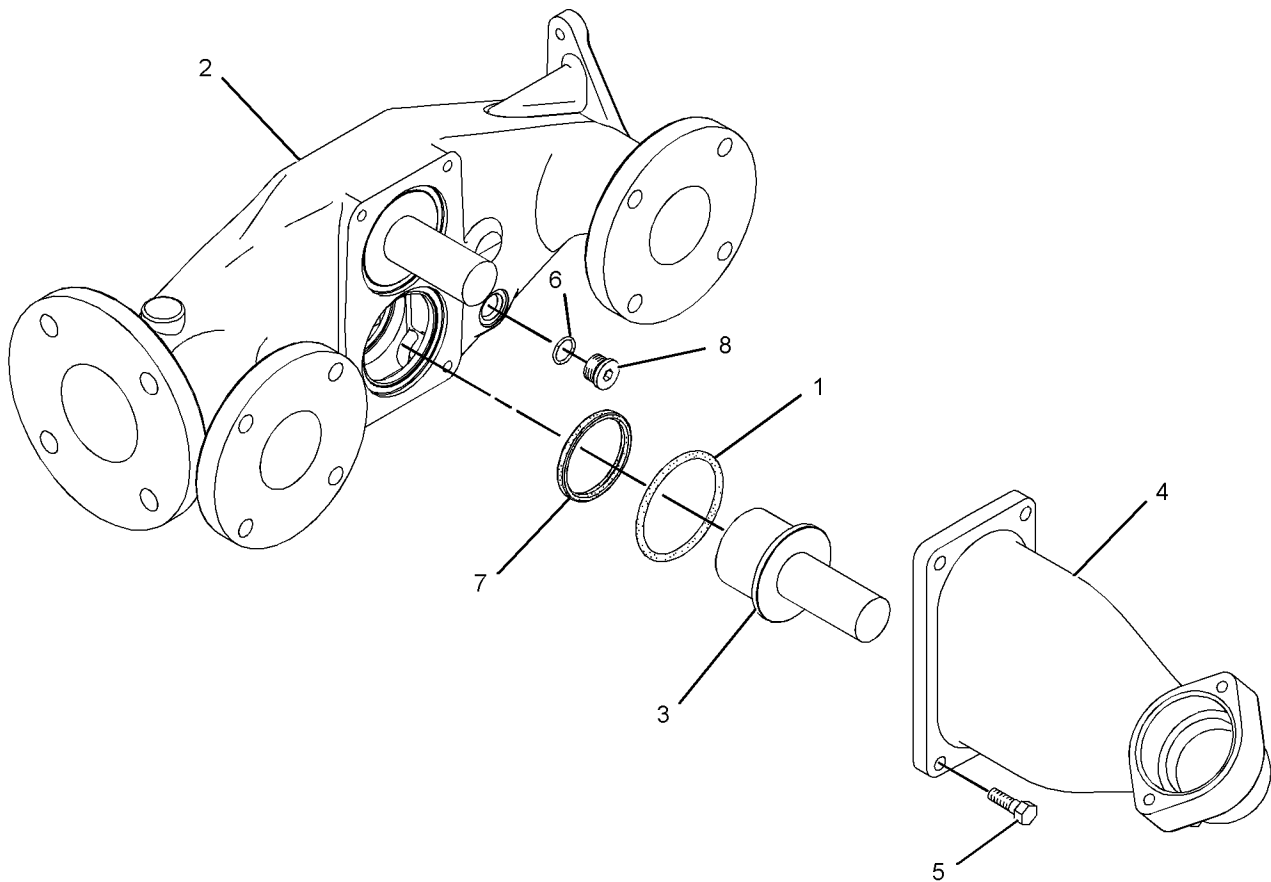
S/N: ZBA330-UP

PART OF 120-4107 CONVERSION AR
AN ATTACHMENT

SMCS-1355, 1393

i02869312

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6V-1454	2	SEAL-O-RING						
	2	1	214-0728	1	HOUSING						
	3	1	6I-4953	2	REGULATOR-WATER TEMPERATURE (37-DEG C)						
	4	1	264-3073	1	ADAPTER						
	5	1	1A-2029	4	BOLT (3/8-16X1.125-IN)						
	6	1	3K-0360	2	SEAL-O-RING						
	7	1	3S-9643	2	SEAL-LIP TYPE (WATER TEMPERATURE REGULATOR)						
	8	1	9S-8005	2	PLUG-O-RING						



GRAPHIC #1

<END>

g01211920

COOLING SYSTEM

284-0628 HOUSING & REGULATOR GP

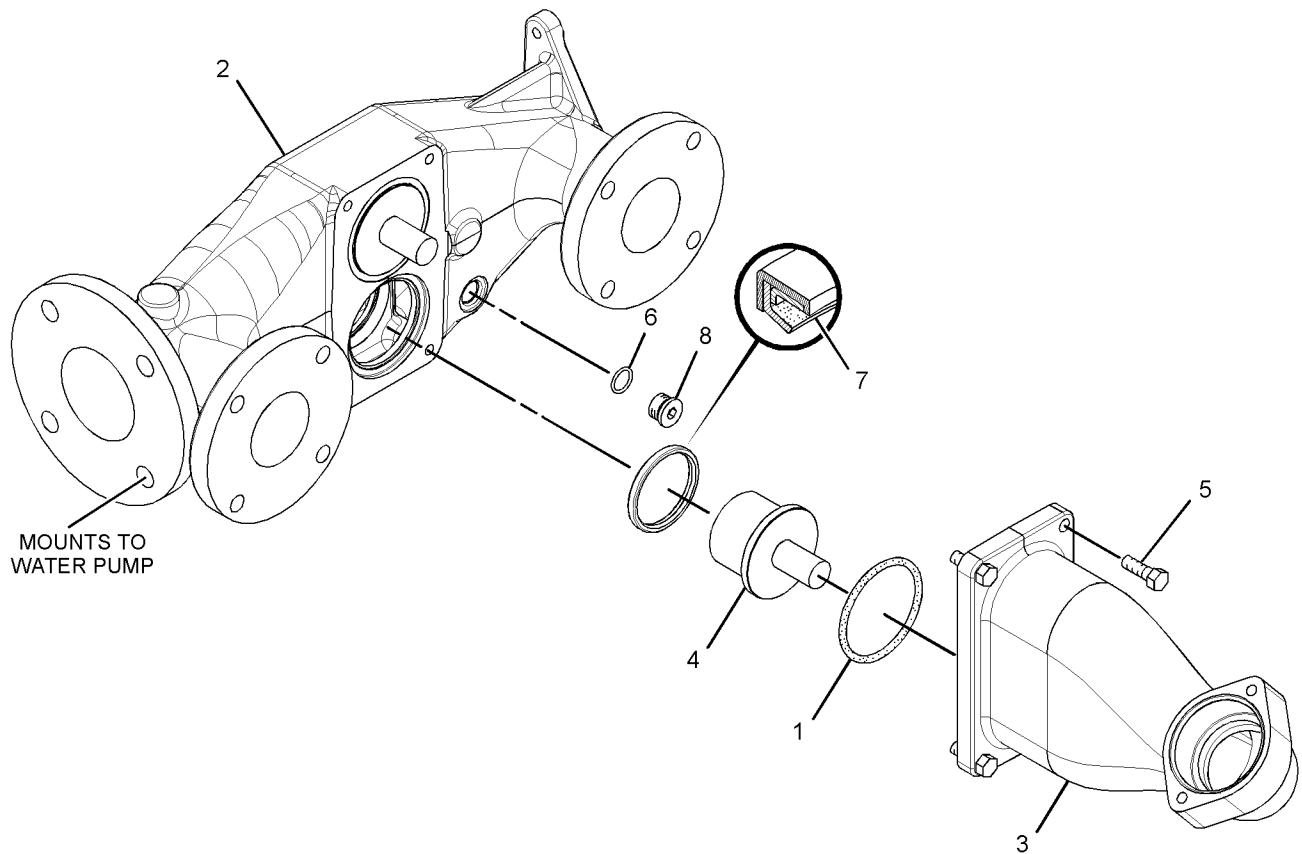
S/N: ZBA472-UP

PART OF 284-0627 REGULATOR GP-TEMPERATURE

SMCS-1355, 1393

i02869321

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6V-1454	2	SEAL-O-RING						
	2	1	214-0728	1	HOUSING						
	3	1	264-3073	1	ADAPTER						
	4	1	283-7776	2	REGULATOR-WATER TEMPERATURE (47-DEG C)						
	5	1	1A-2029	4	BOLT (3/8-16X1.125-IN)						
	6	1	3K-0360	2	SEAL-O-RING						
	7	1	3S-9643	2	SEAL-LIP TYPE (WATER TEMPERATURE REGULATOR)						
	8	1	9S-8005	2	PLUG-O-RING						



GRAPHIC #1

<END>

g01343495

COOLING SYSTEM

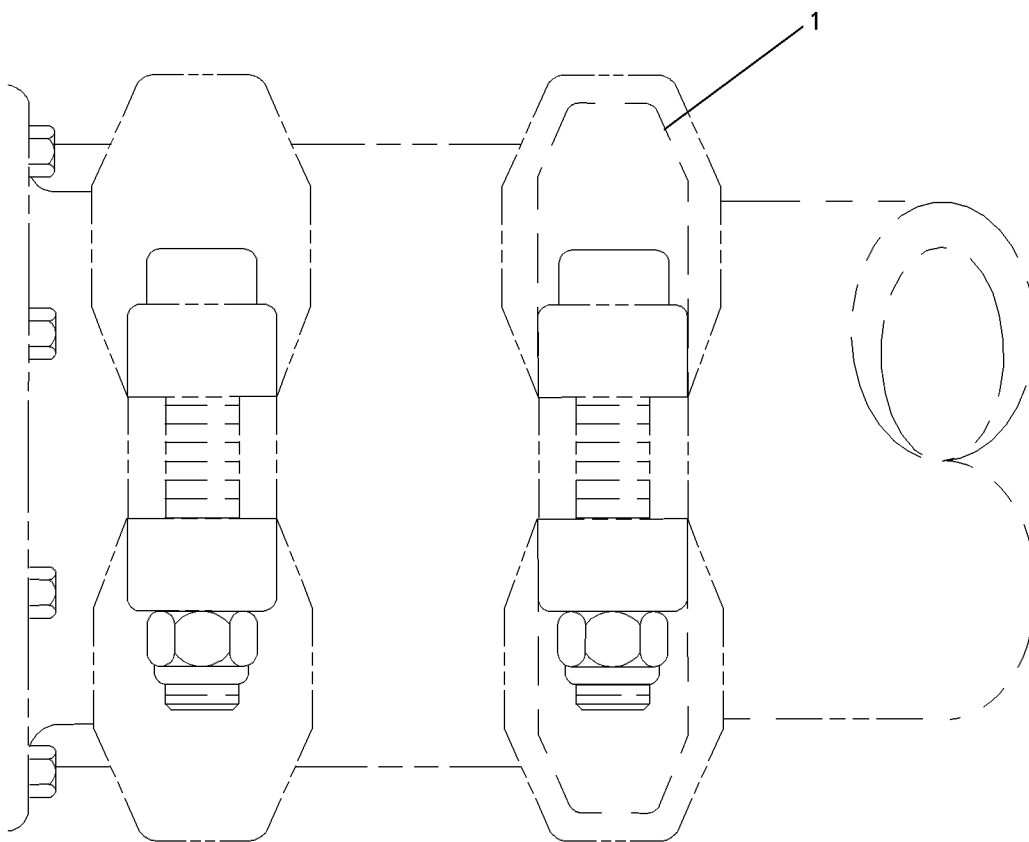
5P-9130 JOINT AS-TUBE

S/N: ZBA1-UP
141.3-MM ID (5.56-IN)
AN ATTACHMENT

SMCS-1380

i02220704

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9X-7540	2	SEAL						



GRAPHIC #1

<END>

g00621096

COOLING SYSTEM

2W-1441 LINES GP-AUXILIARY FRESH WATER

S/N: ZBA1-UP

SMCS-1380

i02629183

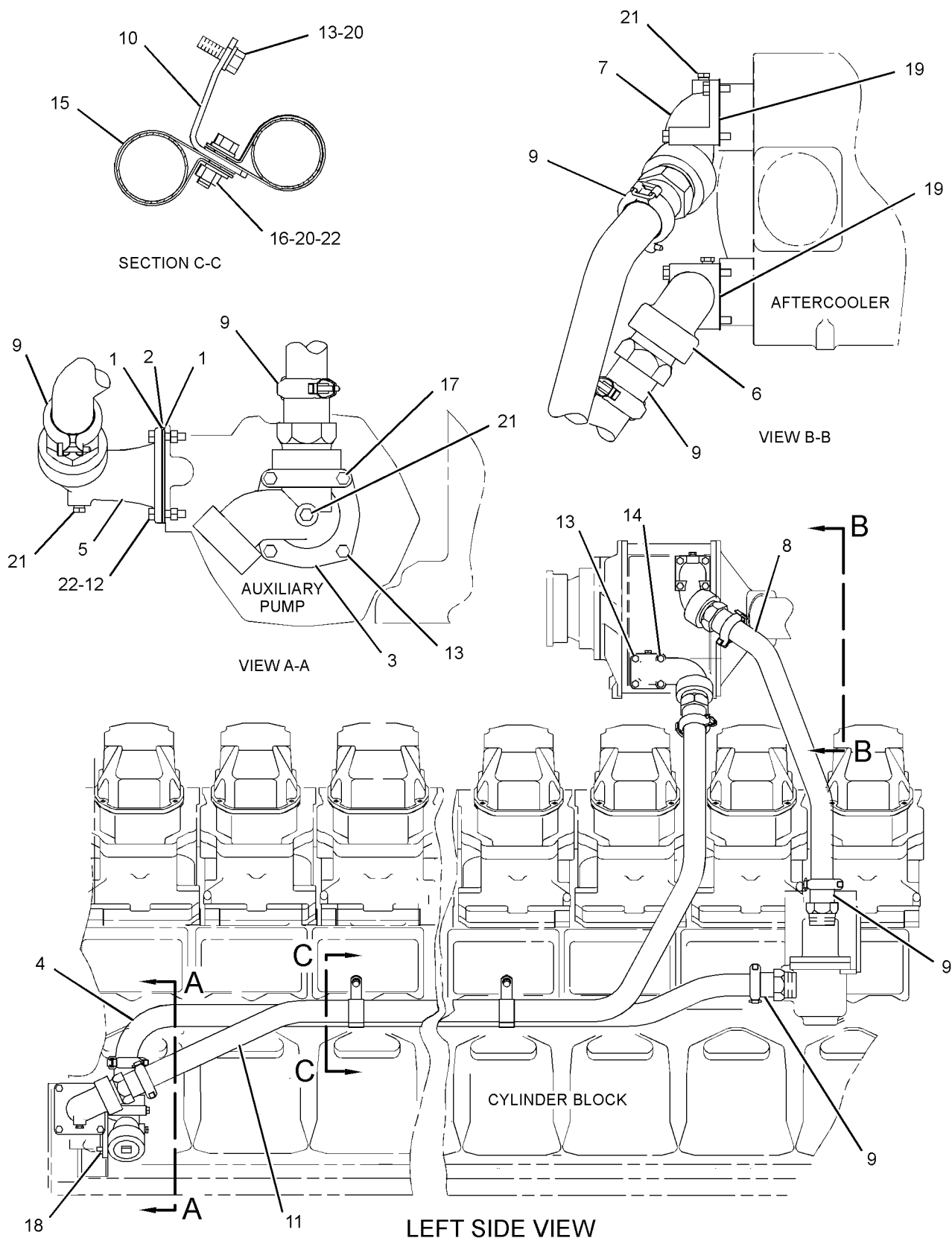
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3P-6061	2	GASKET						
	2	1	5N-0408	1	PLATE-ORIFICE						
	3	1	7W-1446	1	ELBOW						
	4	1	7W-3131	1	TUBE						
	5	1	7W-3297	1	ELBOW						
	6	1	7W-3448	1	ELBOW						
	7	1	7W-7387	1	ELBOW						
	8	1	7W-7388	1	TUBE						
	9	1	8T-2657	6	JOINT AS-TUBE						
					(EACH INCLUDES)						
		1	9X-7529	1	SEAL						
C	10	1	9Y-3108	2	BRACKET						
	11	1	284-2771	1	TUBE						
	12	1	0S-1591	4	BOLT (3/8-16X1.5-IN)						
C	13	1	0S-1594	8	BOLT (3/8-16X1-IN)						
	14	1	0S-1619	4	BOLT (3/8-16X3-IN)						
	15	1	130-3374	4	CLIP						
	16	1	0S-1588	2	BOLT (3/8-16X1.25-IN)						
	17	1	1A-5964	2	BOLT (3/8-16X4.5-IN)						
	18	1	4F-7387	1	SEAL-O-RING						
	19	1	5G-1442	2	GASKET						
C	20	1	5M-2894	6	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	21	1	8T-6765	4	PLUG-PIPE						
	22	1	9S-8752	6	NUT-FULL (3/8-16-THD)						

C- CHANGE FROM PREVIOUS TYPE

COOLING SYSTEM

2W-1441 LINES GP-AUXILIARY FRESH WATER (contd.)

i02629183



GRAPHIC #1

<END>

g01341200

COOLING SYSTEM

4P-3530 LINES GP-AUXILIARY FRESH WATER

S/N: ZBA1-UP

AN ATTACHMENT

SMCS-1380

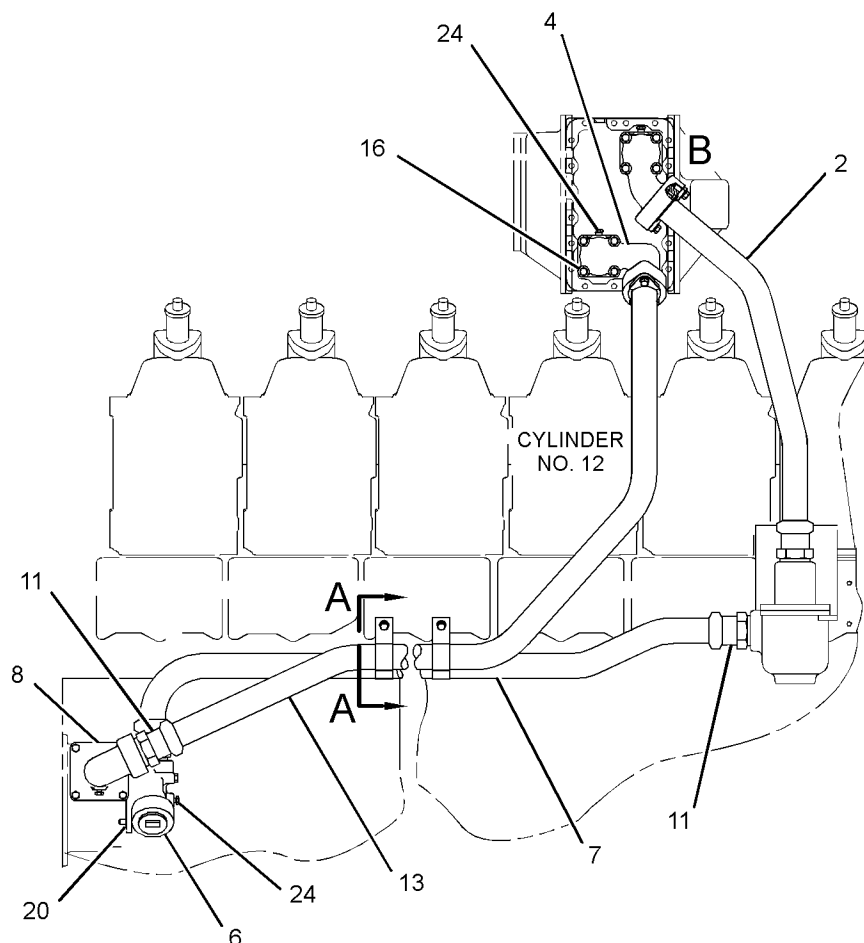
i02490867

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3P-6061	2	GASKET						
	2	1	4P-3525	1	TUBE-OUTLET						
	3	1	5N-0408	1	PLATE-ORIFICE						
	4	1	7E-8234	1	ELBOW						
	5	1	7E-8248	1	ELBOW-OUTLET						
	6	1	7W-1446	1	ELBOW						
	7	1	7W-3131	1	TUBE						
	8	1	7W-3297	1	ELBOW						
	9	1	8N-0450	4	RETAINER						
	10	1	8N-0453	2	RING-RETAINING						
	11	1	8T-2657	4	JOINT AS-TUBE						
					(EACH INCLUDES)						
		1	9X-7529	1	SEAL						
	12	1	9Y-3108	2	BRACKET						
	13	1	284-2769	1	TUBE						
	14	1	0S-1591	4	BOLT (3/8-16X1.5-IN)						
	15	1	0S-1594	8	BOLT (3/8-16X1-IN)						
	16	1	0S-1608	8	BOLT (3/8-16X3.75-IN)						
	17	1	130-3374	4	CLIP						
	18	1	1A-2029	2	BOLT (3/8-16X1.125-IN)						
	19	1	1A-5964	2	BOLT (3/8-16X4.5-IN)						
	20	1	4F-7387	1	SEAL-O-RING						
	21	1	4P-0334	2	GASKET-ELBOW						
	22	1	5K-5959	2	SEAL-O-RING						
	23	1	5M-2894	10	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	24	1	8T-6765	4	PLUG-PIPE						
	25	1	9S-8752	6	NUT-FULL (3/8-16-THD)						

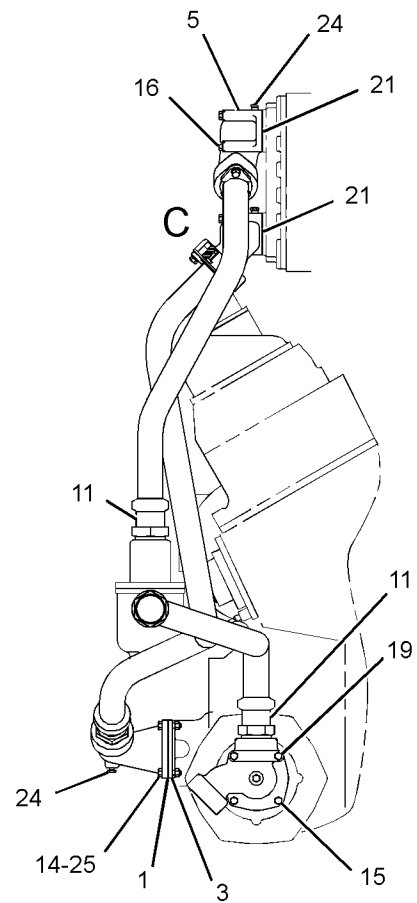
COOLING SYSTEM

4P-3530 LINES GP-AUXILIARY FRESH WATER (contd.)

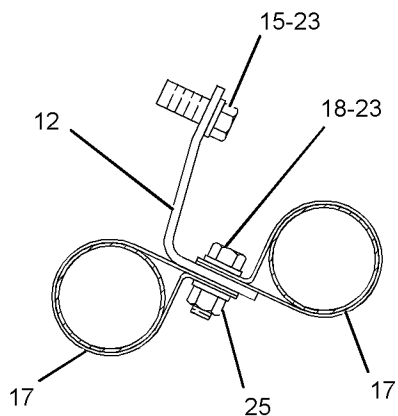
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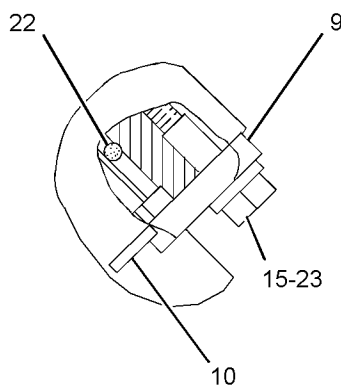
LEFT SIDE VIEW



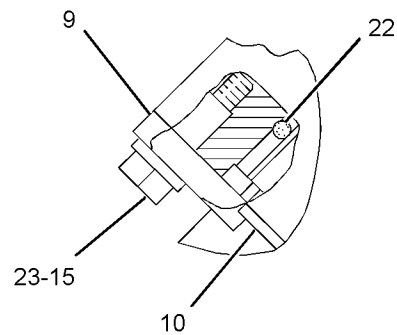
REAR VIEW



SECTION A-A



VIEW OF AREA B



VIEW OF AREA C

GRAPHIC #1

<END>

g01245281

COOLING SYSTEM

121 - 7539 LINES GP - AUXILIARY FRESH WATER

S/N: ZBA1-UP

AN ATTACHMENT

SMCS - 1380

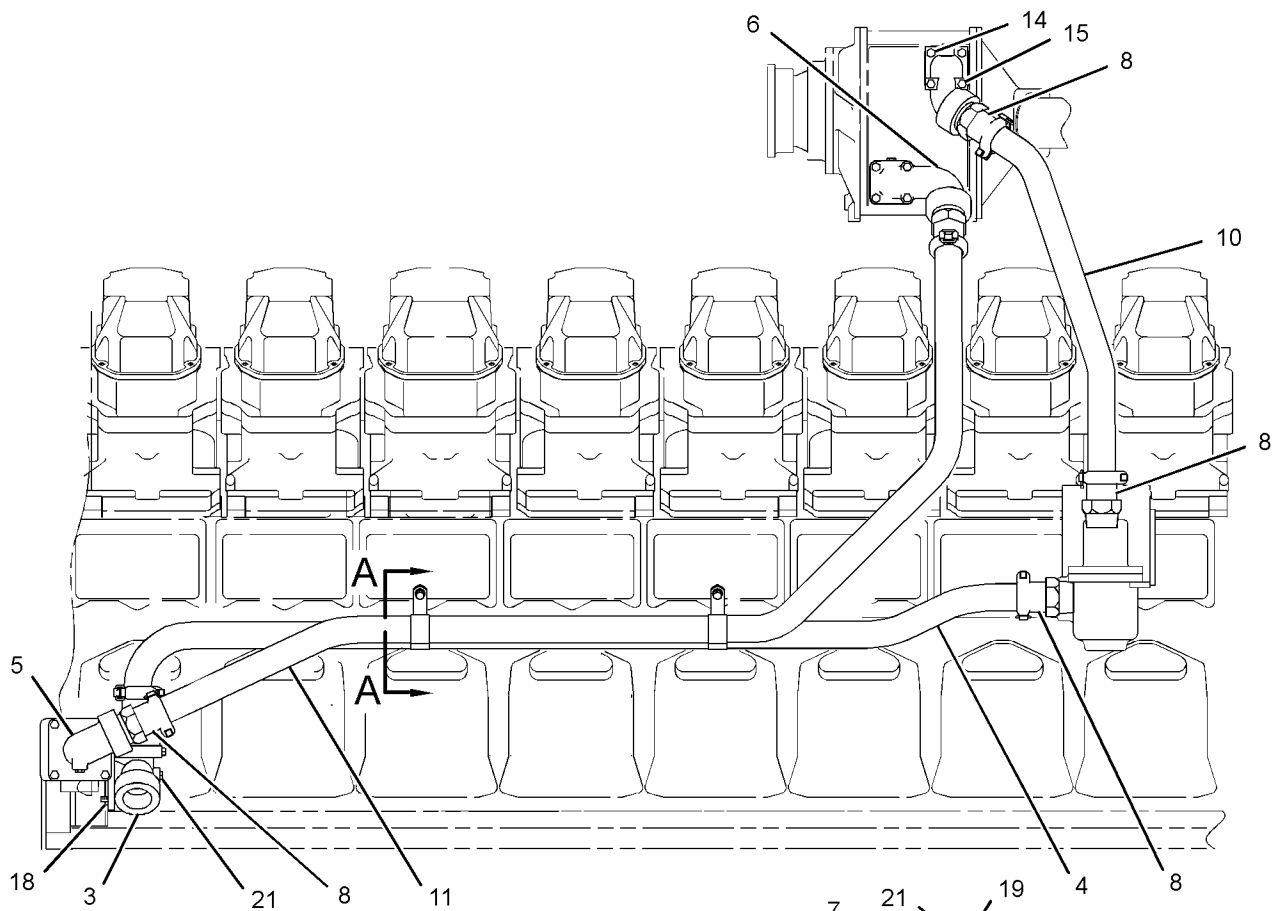
i02565972

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3P - 6061	2	GASKET						
	2	1	5N - 0408	1	PLATE - ORIFICE						
	3	1	7W - 1446	1	ELBOW						
	4	1	7W - 3131	1	TUBE						
	5	1	7W - 3297	1	ELBOW						
	6	1	7W - 3448	1	ELBOW						
	7	1	7W - 7387	1	ELBOW						
	8	1	8T - 2657	6	JOINT AS - TUBE						
					(EACH INCLUDES)						
		1	9X - 7529	1	SEAL						
	9	1	9Y - 3108	2	BRACKET						
	10	1	121 - 7537	1	TUBE						
	11	1	284 - 2760	1	TUBE						
	12	1	0S - 1588	2	BOLT (3/8 - 16X1.25 - IN)						
	13	1	0S - 1591	4	BOLT (3/8 - 16X1.5 - IN)						
	14	1	0S - 1594	8	BOLT (3/8 - 16X1 - IN)						
	15	1	0S - 1619	4	BOLT (3/8 - 16X3 - IN)						
	16	1	130 - 3374	4	CLIP						
	17	1	1A - 5964	2	BOLT (3/8 - 16X4.5 - IN)						
	18	1	4F - 7387	1	SEAL - O - RING						
	19	1	5G - 1442	2	GASKET						
	20	1	5M - 2894	6	WASHER - HARD (10.2X18.5X2.5 - MM THK)						
	21	1	8T - 6765	4	PLUG - PIPE						
	22	1	9S - 8752	6	NUT - FULL (3/8 - 16 - THD)						

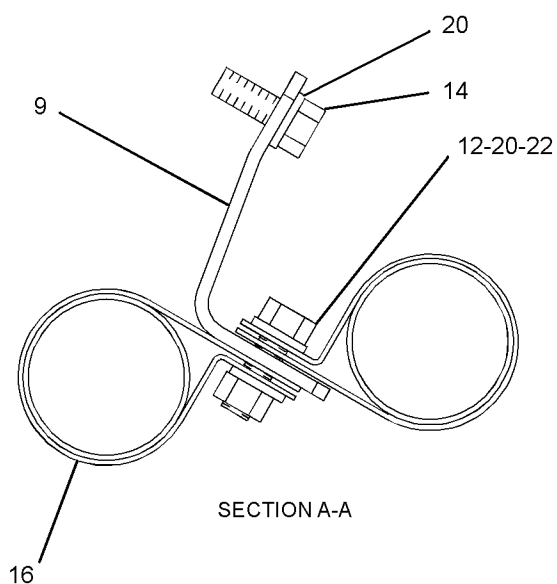
COOLING SYSTEM

121-7539 LINES GP-AUXILIARY FRESH WATER (contd.)

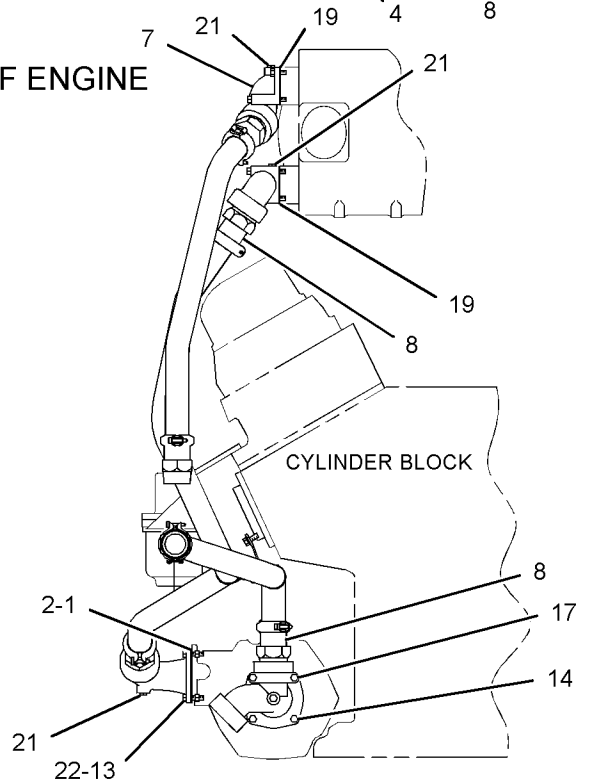
i02565972



LEFT SIDE VIEW OF ENGINE



SECTION A-A



REAR VIEW OF ENGINE

GRAPHIC #1

<END>

g01334929

COOLING SYSTEM

183-7603 LINES GP-AUXILIARY FRESH WATER

S/N: ZBA1-UP

2-STAGE

SMCS-1380

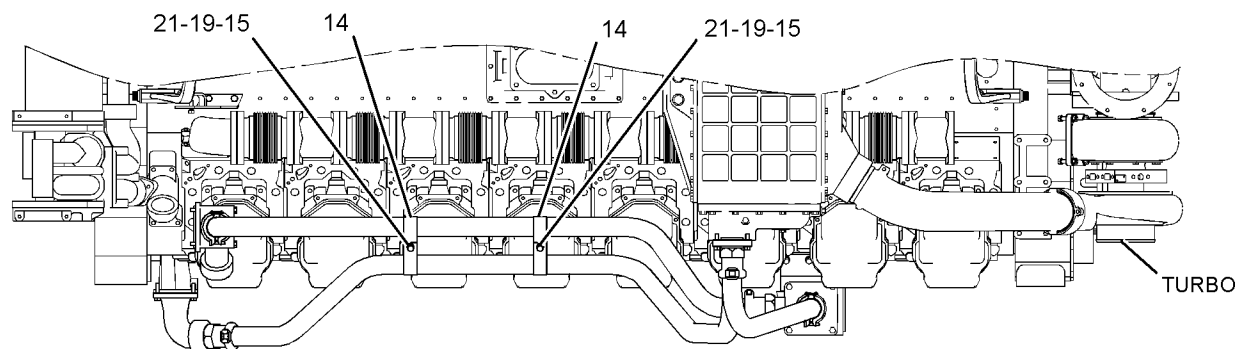
i02491602

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3P-6061	2	GASKET						
	2	1	4N-1418	2	GASKET-RADIATOR INLET						
	3	1	5N-0408	1	PLATE-ORIFICE						
	4	1	7W-1446	1	ELBOW						
	5	1	7W-3297	1	ELBOW						
	6	1	8T-2657	6	JOINT AS-TUBE						
					(EACH INCLUDES)						
		1	9X-7529	1	SEAL						
	7	1	9Y-3108	2	BRACKET						
	8	1	114-5278	1	TUBE						
	9	1	183-7607	1	TUBE						
	10	1	183-9579	2	PLATE						
	11	1	284-2764	1	TUBE						
	12	1	0S-1591	4	BOLT (3/8-16X1.5-IN)						
	13	1	0S-1594	4	BOLT (3/8-16X1-IN)						
	14	1	130-3374	4	CLIP						
	15	1	1A-2029	2	BOLT (3/8-16X1.125-IN)						
	16	1	1A-5964	2	BOLT (3/8-16X4.5-IN)						
	17	1	3B-1915	8	BOLT (3/8-16X1.375-IN)						
	18	1	4F-7387	1	SEAL-O-RING						
	19	1	5M-2894	14	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	20	1	8T-6765	2	PLUG-PIPE						
	21	1	9S-8752	6	NUT-FULL (3/8-16-THD)						
	22	1	9X-6138	1	PLUG-PIPE						

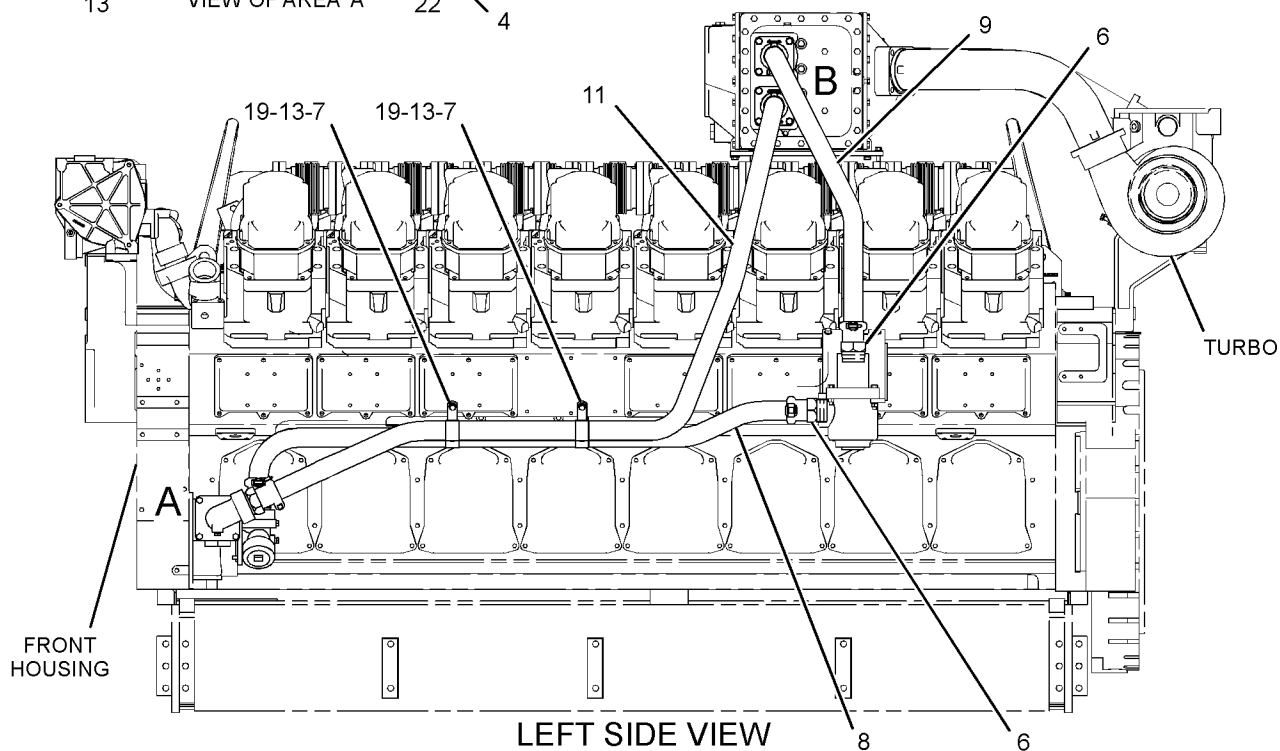
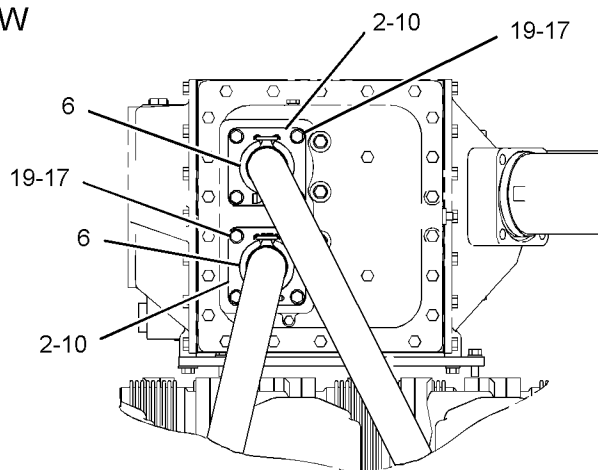
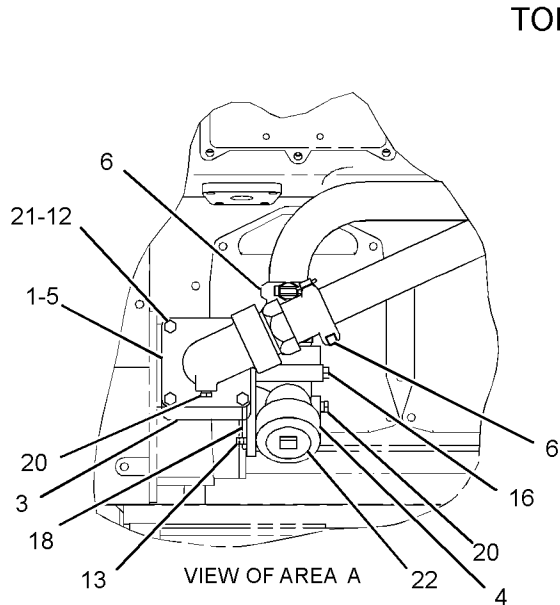
COOLING SYSTEM

183-7603 LINES GP-AUXILIARY FRESH WATER (contd.)

i02491602



TOP VIEW



GRAPHIC #1

<END>

g01247361

COOLING SYSTEM

1N-4421 LINES GP-WATER-LOWER

S/N: ZBA1-UP
ALSO AN ATTACHMENT
TYPE 1

SMCS-1355, 1380, 1393

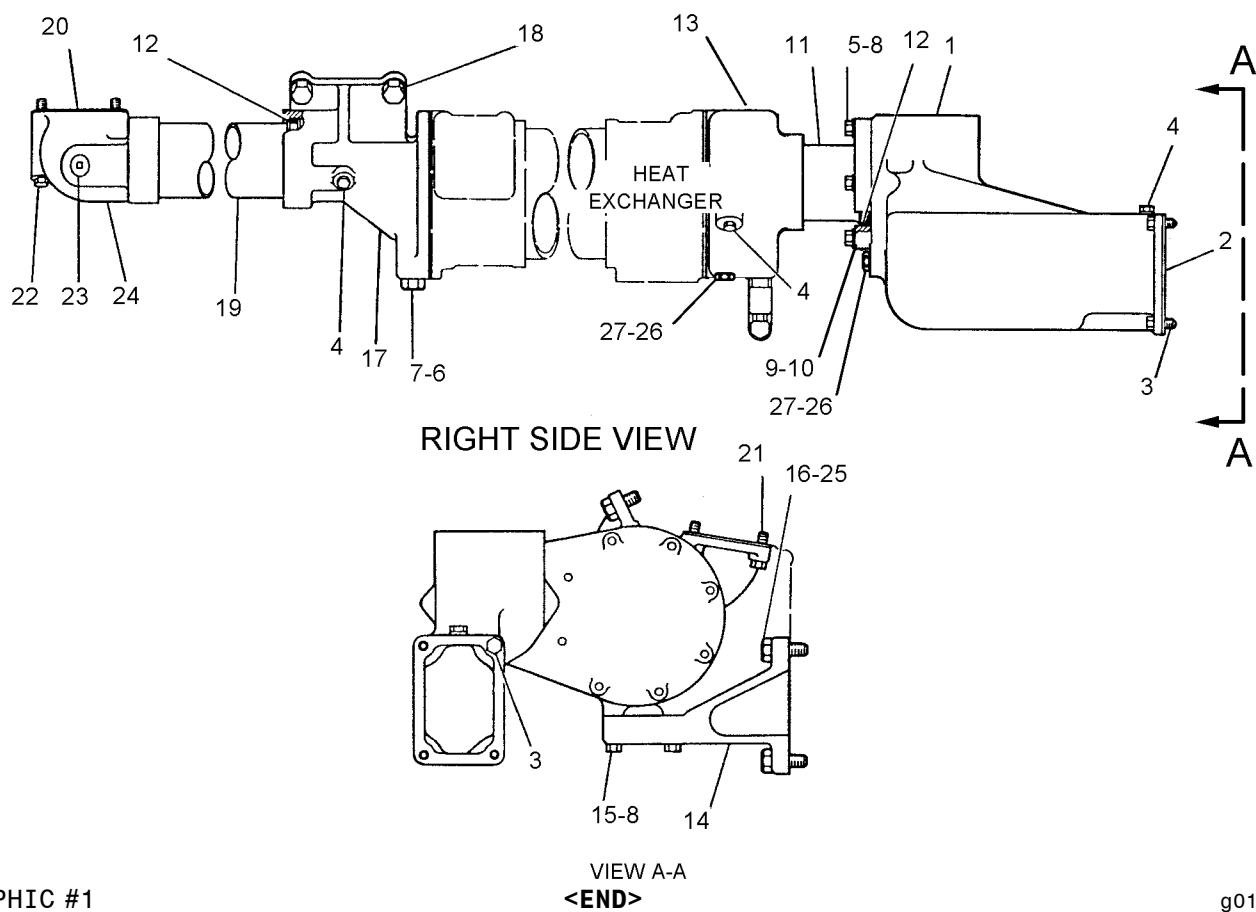
i02232129

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	1	1	120-7421	1	ADAPTER						
	2	1	7N-4932	1	GASKET						
C	3	1	0S-1594	4	BOLT (3/8-16X1-IN)						
	4	1	8T-6765	3	PLUG-PIPE						
	5	1	2A-4639	4	BOLT (3/8-16X1.625-IN)						
	6	1	4B-8407	1	GASKET-COPPER						
	7	1	9M-4202	1	PLUG-DRAIN (WATER LINE, LOWER)						
C	8	1	5M-2894	6	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	9	1	8N-0386	1	FLANGE						
	10	1	4N-1320	1	GASKET						
	11	1	8N-7641	1	TUBE						
C	12	1	6V-5066	4	SEAL-O-RING						
	13	1	7N-4939	1	BONNET-OIL COOLER						
	14	1	7N-4940	1	BRACKET						
	15	1	0S-1571	2	BOLT (3/8-16X1.75-IN)						
	16	1	0S-1585	2	BOLT (1/2-13X1.5-IN)						
	17	1	7N-4941	1	BONNET-OIL COOLER						
	18	1	0S-1595	2	BOLT (1/2-13X1.25-IN)						
	19	1	7N-9045	1	TUBE						
	20	1	7N-4945	1	GASKET						
	21	1	0S-1588	2	BOLT (3/8-16X1.25-IN)						
	22	1	0T-0065	2	BOLT (3/8-16X3.5-IN)						
	23	1	8T-6761	1	PLUG-PIPE						
	24	1	7N-4944	1	ELBOW						
	25	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
	26	1	9S-4185	2	PLUG-O-RING						
	27	1	6V-6609	2	SEAL-O-RING						
C- CHANGE FROM PREVIOUS TYPE											

COOLING SYSTEM

1N-4421 LINES GP-WATER (contd.)

i02232129



GRAPHIC #1

g01101279

COOLING SYSTEM

1N-4421 LINES GP-WATER-LOWER

S/N: ZBA1-UP
ALSO AN ATTACHMENT
TYPE 2

SMCS-1355, 1380, 1393

i02865891

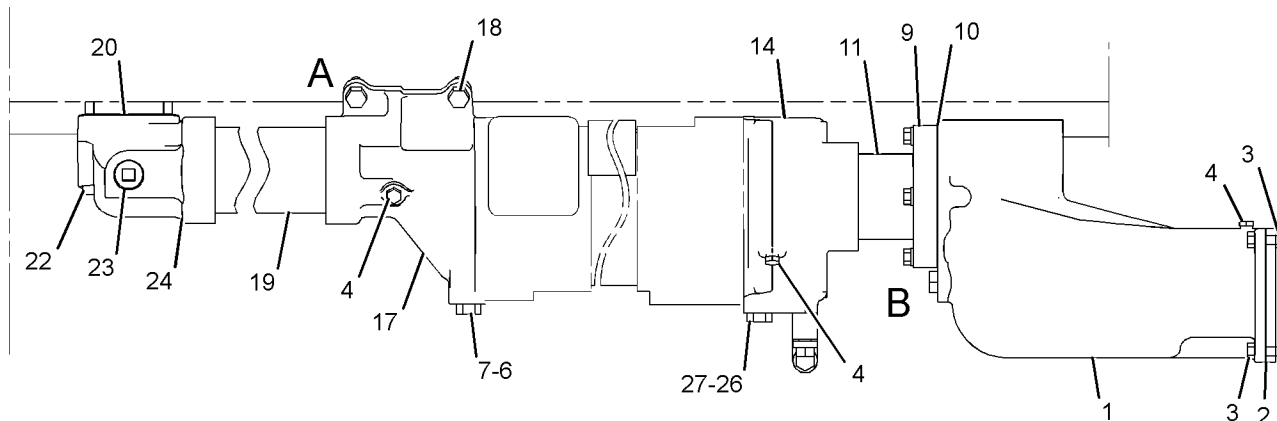
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	120-7421	1	ADAPTER						
	2	1	7N-4932	1	GASKET						
	3	1	0S-1594	4	BOLT (3/8-16X1-IN)						
	4	1	8T-6765	3	PLUG-PIPE						
	5	1	2A-4639	4	BOLT (3/8-16X1.625-IN)						
	6	1	4B-8407	1	GASKET-COPPER						
	7	1	9M-4202	1	PLUG-DRAIN (WATER LINE, LOWER)						
C	8	1	5M-2894	4	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	9	1	8N-0386	1	FLANGE						
	10	1	4N-1320	1	GASKET						
	11	1	8N-7641	1	TUBE						
	12	1	6V-5066	4	SEAL-O-RING						
C	13	1	8B-9725	2	BOSS						
C	14	1	278-0539	1	HOUSING-OIL COOLER						
C	15	1	278-0540	1	BRACKET						
	16	1	0S-1585	2	BOLT (1/2-13X1.5-IN)						
	17	1	7N-4941	1	BONNET-OIL COOLER						
	18	1	0S-1595	2	BOLT (1/2-13X1.25-IN)						
	19	1	7N-9045	1	TUBE						
	20	1	7N-4945	1	GASKET						
	21	1	0S-1588	2	BOLT (3/8-16X1.25-IN)						
	22	1	0T-0065	2	BOLT (3/8-16X3.5-IN)						
	23	1	8T-6761	1	PLUG-PIPE						
	24	1	7N-4944	1	ELBOW						
	25	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
	26	1	9S-4185	2	PLUG-O-RING						
	27	1	6V-6609	2	SEAL-O-RING						
C	28	1	9X-8873	2	BOLT (1/2-13X2.25-IN)						

C- CHANGE FROM PREVIOUS TYPE

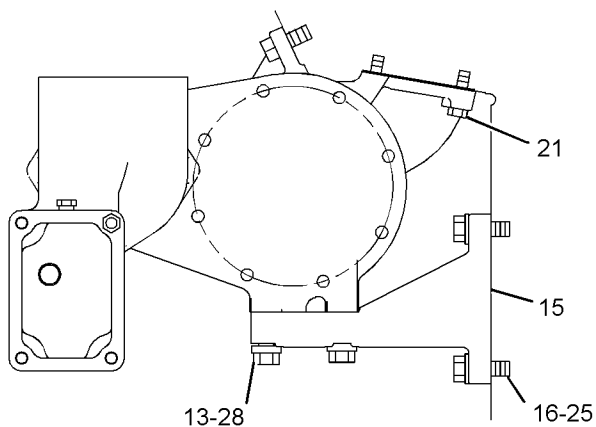
COOLING SYSTEM

1N-4421 LINES GP-WATER (contd.)

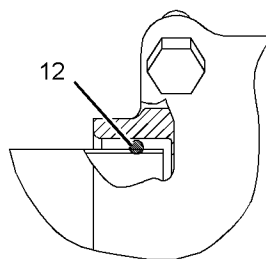
i02865891



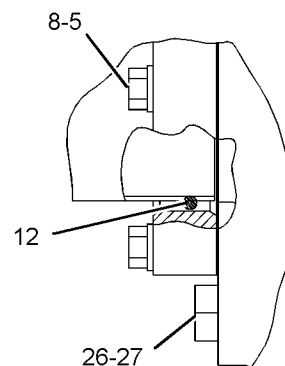
RIGHT SIDE VIEW OF ENGINE



FRONT VIEW OF ENGINE



VIEW OF AREA A



VIEW OF AREA B

GRAPHIC #1

<END>

g01427602

COOLING SYSTEM

2W-1437 LINES GP-WATER-UPPER

S/N: ZBA1-UP

PART OF 4P-4333 TANK GP-EXPANSION
AN ATTACHMENT

SMCS-1355, 1380, 1393

i02378436

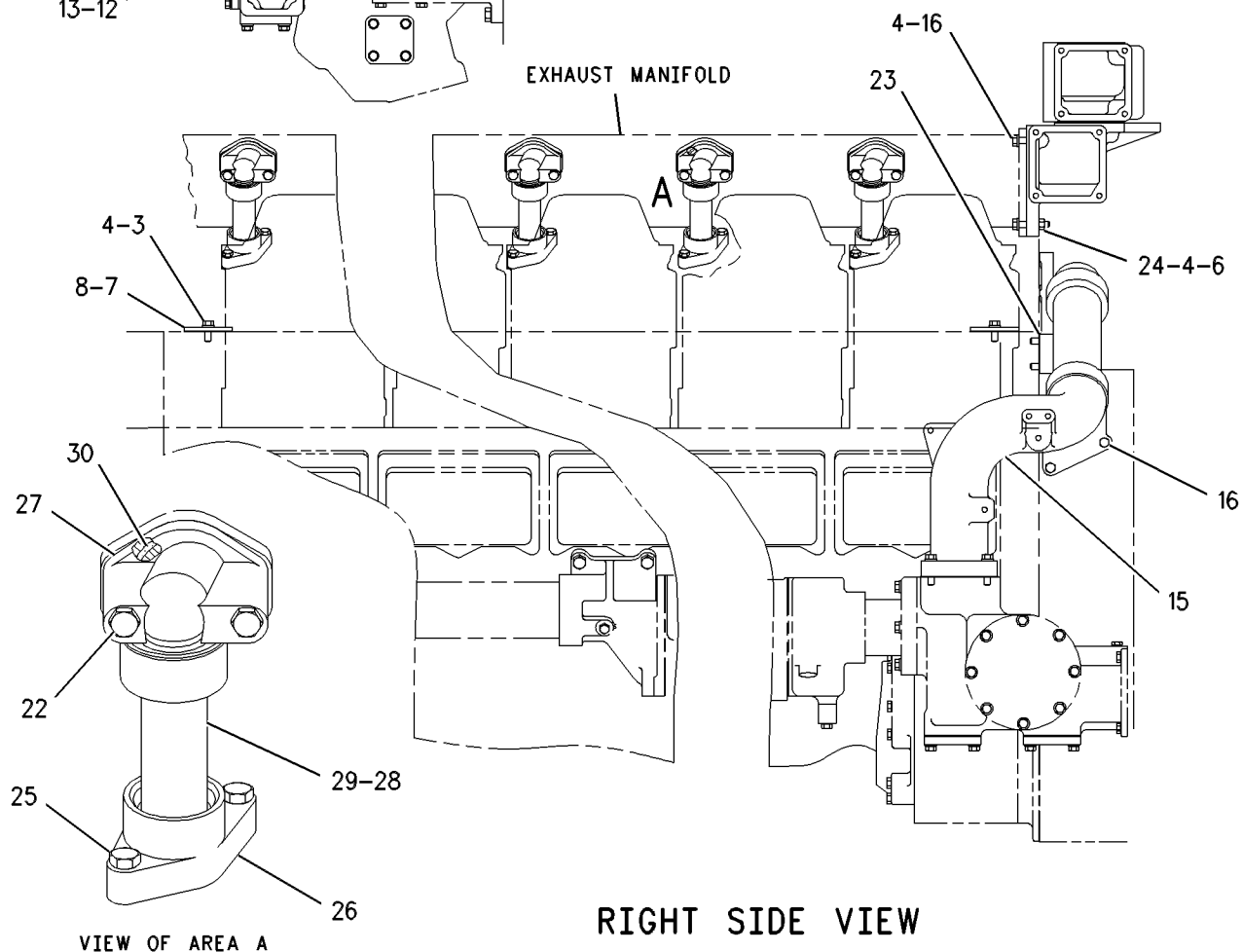
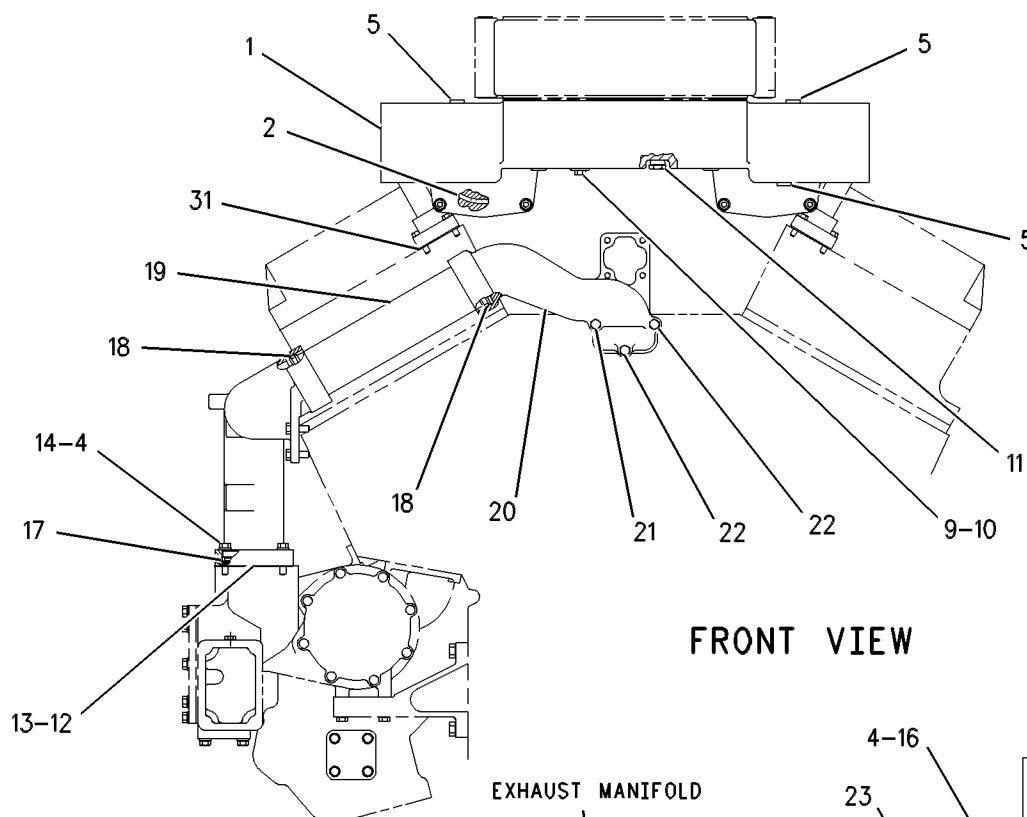
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8N-9623	1	HOUSING-REGULATOR						
	2	1	6V-6809	2	SEAL-O-RING						
C	3	1	0S-1594	4	BOLT (3/8-16X1-IN)						
	4	1	5M-2894	16	WASHER-HARD (10.2X18.5X2.5-MM THK)						
C	5	1	8T-6762	3	PLUG-PIPE						
	6	1	0S-1590	4	BOLT (3/8-16X2-IN)						
	7	1	6H-6698	2	COVER						
	8	1	230-1072	2	GASKET						
	9	1	9S-4182	1	PLUG-O-RING						
	10	1	6V-9027	1	SEAL-O-RING						
C	11	1	7W-6492	1	PLUG-PIPE						
	12	1	4N-1320	1	GASKET						
	13	1	8N-0386	1	FLANGE						
	14	1	2A-4639	4	BOLT (3/8-16X1.625-IN)						
	15	1	1N-4087	1	ELBOW						
	16	1	1A-2029	6	BOLT (3/8-16X1.125-IN)						
	17	1	6V-5066	1	SEAL-O-RING						
	18	1	6V-1454	2	SEAL-O-RING						
	19	1	8N-1989	1	TUBE						
	20	1	7W-0900	1	ELBOW						
	21	1	0T-0055	1	BOLT (3/8-16X4.25-IN)						
C	22	1	0S-1619	34	BOLT (3/8-16X3-IN)						
	23	1	7N-3368	1	GASKET						
	24	1	9S-8752	4	NUT-FULL (3/8-16-THD)						
	25	1	1B-7182	32	BOLT (5/16-18X1.25-IN)						
C	26	1	7E-8890	16	COLLAR						
C	27	1	7E-8888	16	ELBOW						
C	28	1	7E-8889	16	TUBE						
C	29	1	5P-7204	32	SEAL-O-RING						
C	30	1	6V-9769	16	SEAL-O-RING						
	31	1	179-2960	16	SEAL-INTEGRAL						

C- CHANGE FROM PREVIOUS TYPE

COOLING SYSTEM

2W-1437 LINES GP-WATER (contd.)

i02378436



GRAPHIC #1

<END>

g00596059

COOLING SYSTEM

4P-8354 LINES GP-WATER-UPPER

S/N: ZBA1-UP

SMCS-1355, 1380, 1393

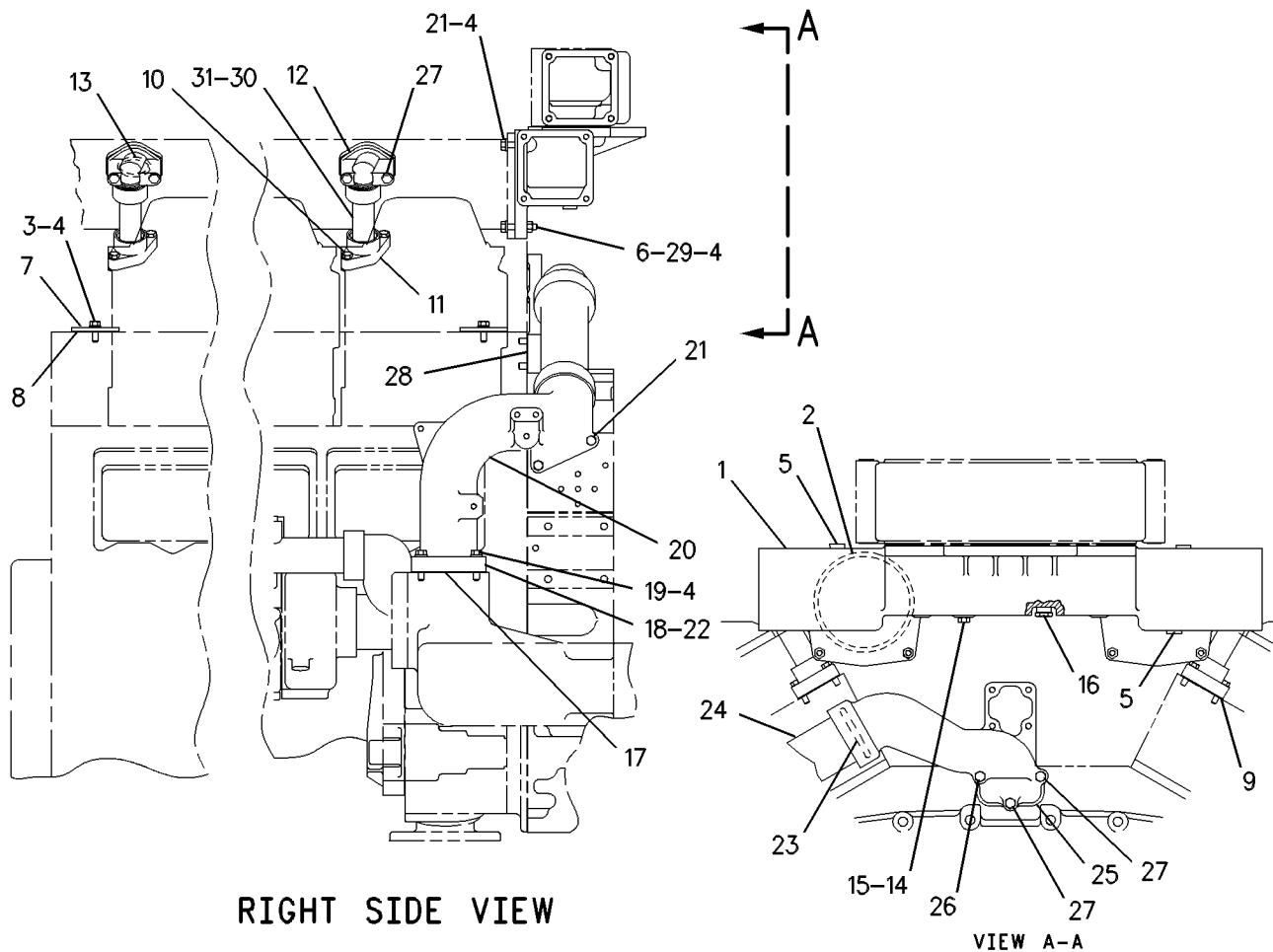
i02340761

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9Y-8540	1	HOUSING-REGULATOR						
	2	1	6V-6809	2	SEAL-O-RING						
	3	1	0S-1594	4	BOLT (3/8-16X1-IN)						
	4	1	5M-2894	16	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	5	1	8T-6762	3	PLUG-PIPE						
	6	1	0S-1590	4	BOLT (3/8-16X2-IN)						
	7	1	6H-6698	2	COVER						
	8	1	230-1072	2	GASKET						
	9	1	179-2960	16	SEAL-INTEGRAL						
	10	1	1B-7182	32	BOLT (5/16-18X1.25-IN)						
	11	1	7E-8890	16	COLLAR						
	12	1	7E-8888	16	ELBOW						
	13	1	6V-9769	16	SEAL-O-RING						
	14	1	9S-4182	1	PLUG-O-RING						
	15	1	6V-9027	1	SEAL-O-RING						
	16	1	7W-6492	1	PLUG-PIPE						
	17	1	4N-1320	1	GASKET						
	18	1	8N-0386	1	FLANGE						
	19	1	2A-4639	4	BOLT (3/8-16X1.625-IN)						
	20	1	1N-4087	1	ELBOW						
	21	1	1A-2029	6	BOLT (3/8-16X1.125-IN)						
	22	1	6V-5066	1	SEAL-O-RING						
	23	1	6V-1454	2	SEAL-O-RING						
	24	1	8N-1989	1	TUBE						
	25	1	7W-0900	1	ELBOW						
	26	1	0T-0055	1	BOLT (3/8-16X4.25-IN)						
	27	1	0S-1619	34	BOLT (3/8-16X3-IN)						
	28	1	7N-3368	1	GASKET						
	29	1	9S-8752	4	NUT-FULL (3/8-16-THD)						
	30	1	7E-8889	16	TUBE						
	31	1	5P-7204	32	SEAL-O-RING						

COOLING SYSTEM

4P-8354 LINES GP-WATER (contd.)

i02340761



RIGHT SIDE VIEW

VIEW A-A

GRAPHIC #1

<END>

g00596203

COOLING SYSTEM

4P-8789 LINES GP-WATER-UPPER

S/N: ZBA1-UP

SMCS-1355, 1380, 1393

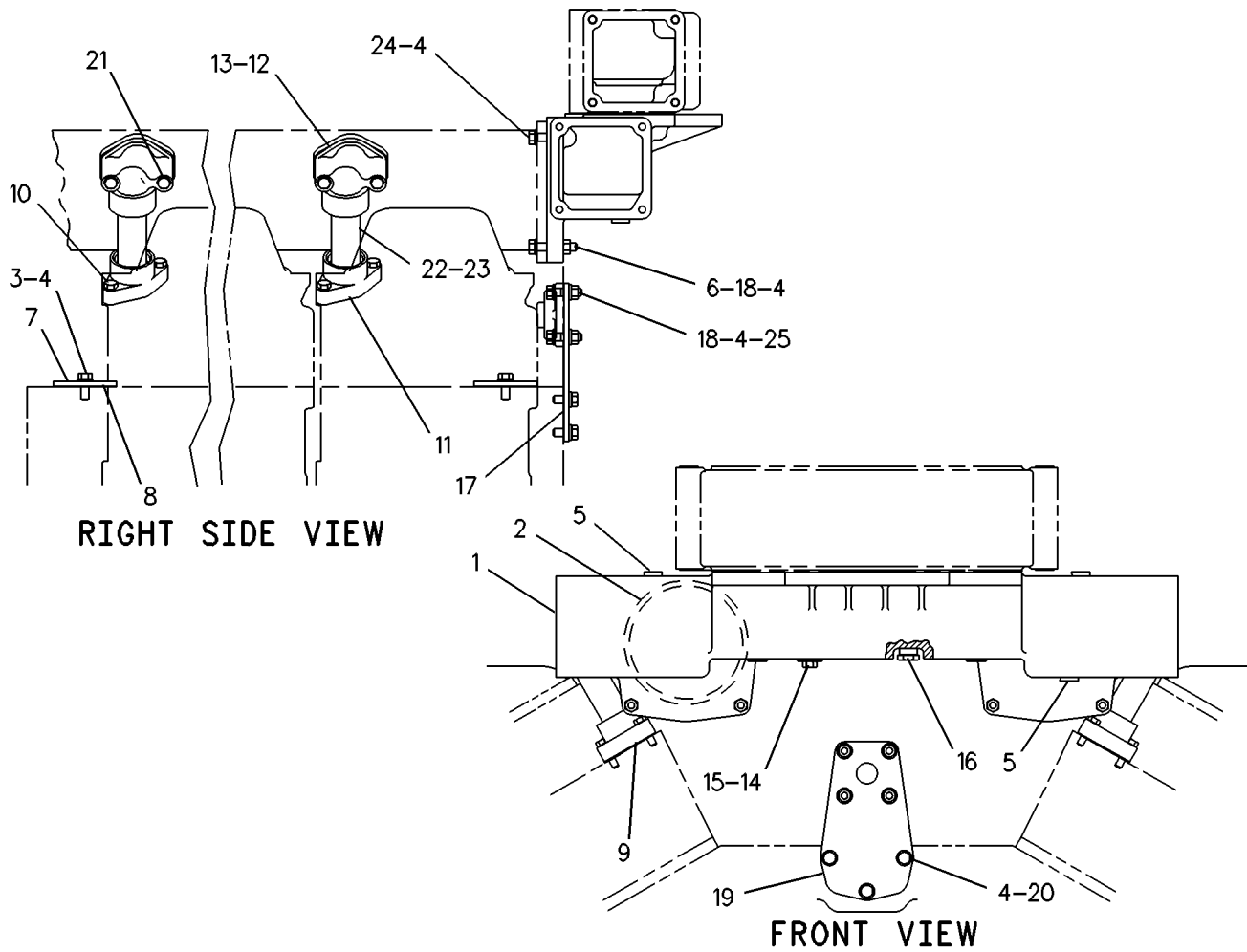
i02379300

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9Y-8540	1	HOUSING-REGULATOR						
	2	1	6V-6809	2	SEAL-O-RING						
	3	1	0S-1594	4	BOLT (3/8-16X1-IN)						
	4	1	5M-2894	19	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	5	1	8T-6762	3	PLUG-PIPE						
	6	1	0S-1590	4	BOLT (3/8-16X2-IN)						
	7	1	6H-6698	2	COVER						
	8	1	230-1072	2	GASKET						
	9	1	179-2960	16	SEAL-INTEGRAL						
	10	1	1B-7182	32	BOLT (5/16-18X1.25-IN)						
	11	1	7E-8890	16	COLLAR						
	12	1	7E-8888	16	ELBOW						
	13	1	6V-9769	16	SEAL-O-RING						
	14	1	9S-4182	1	PLUG-O-RING						
	15	1	6V-9027	1	SEAL-O-RING						
	16	1	7W-6492	1	PLUG-PIPE						
	17	1	7N-3368	1	GASKET						
	18	1	9S-8752	8	NUT-FULL (3/8-16-THD)						
	19	1	9Y-7763	1	SUPPORT						
	20	1	0L-1351	3	BOLT (3/8-16X0.875-IN)						
	21	1	0S-1619	32	BOLT (3/8-16X3-IN)						
	22	1	7E-8889	16	TUBE						
	23	1	5P-7204	32	SEAL-O-RING						
	24	1	1A-2029	4	BOLT (3/8-16X1.125-IN)						
	25	1	3B-1915	4	BOLT (3/8-16X1.375-IN)						

COOLING SYSTEM

4P-8789 LINES GP-WATER (contd.)

i02379300



GRAPHIC #1

<END>

g00230983

COOLING SYSTEM

4W-5771 LINES GP-WATER-TURBOCHARGER EXHAUST

S/N: ZBA1-UP

TYPE 1

SMCS-1355, 1380, 1393

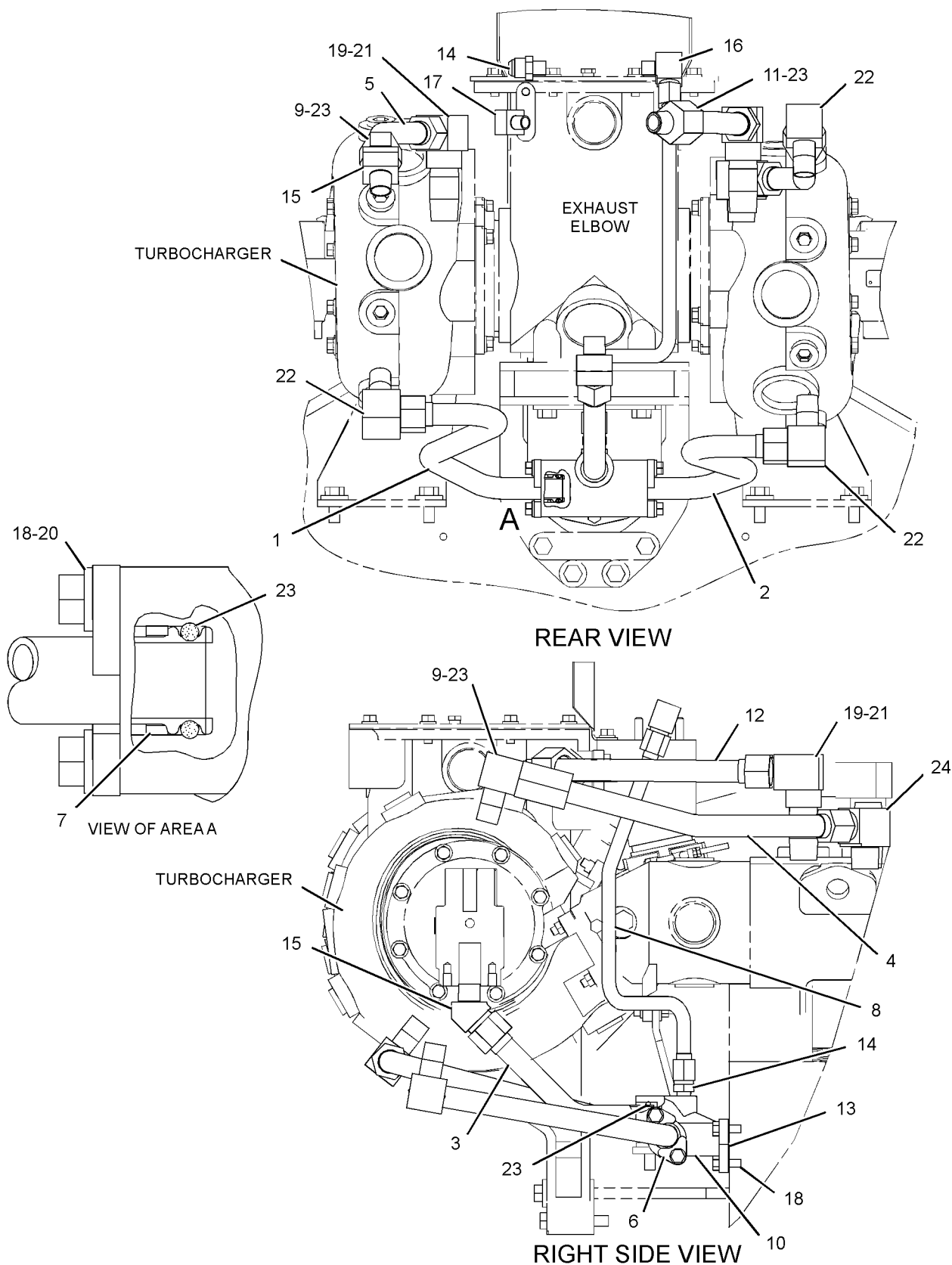
i02834002

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-7963	1	TUBE AS						
	2	1	2W-7964	1	TUBE AS						
	3	1	2W-7977	1	TUBE AS						
	4	1	4P-5924	1	TUBE AS						
	5	1	4P-5925	1	TUBE AS						
	6	1	4W-2109	4	RETAINER						
	7	1	4W-2110	2	RING-RETAINING						
	8	1	7C-3917	1	TUBE AS						
	9	1	7E-1282	2	COUPLING						
	10	1	7E-6761	1	HOUSING						
	11	1	7E-6762	1	FITTING						
	12	1	7E-6764	1	TUBE AS						
	13	1	7N-3368	1	GASKET						
	14	1	001-7004	2	FITTING-FLARED						
	15	1	001-7042	2	ELBOW						
	16	1	006-2325	1	ELBOW-FLARED						
	17	1	090-3000	1	ELBOW-FLARED						
	18	1	0S-1594	7	BOLT (3/8-16X1-IN)						
	19	1	3N-3893	2	ELBOW-FLARED						
	20	1	5M-2894	4	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	21	1	6B-8129	2	NIPPLE-PIPE						
	22	1	6V-8649	3	ELBOW-FLARED						
	23	1	7L-4773	6	SEAL-O-RING						
	24	1	9S-7296	1	ELBOW-FLARED						

COOLING SYSTEM

4W-5771 LINES GP-WATER (contd.)

i02834002



GRAPHIC #1

<END>

g01321847

COOLING SYSTEM

4W-5771 LINES GP-WATER-TURBOCHARGER EXHAUST

S/N: ZBA1-UP

TYPE 2

SMCS-1355, 1380, 1393

i02834003

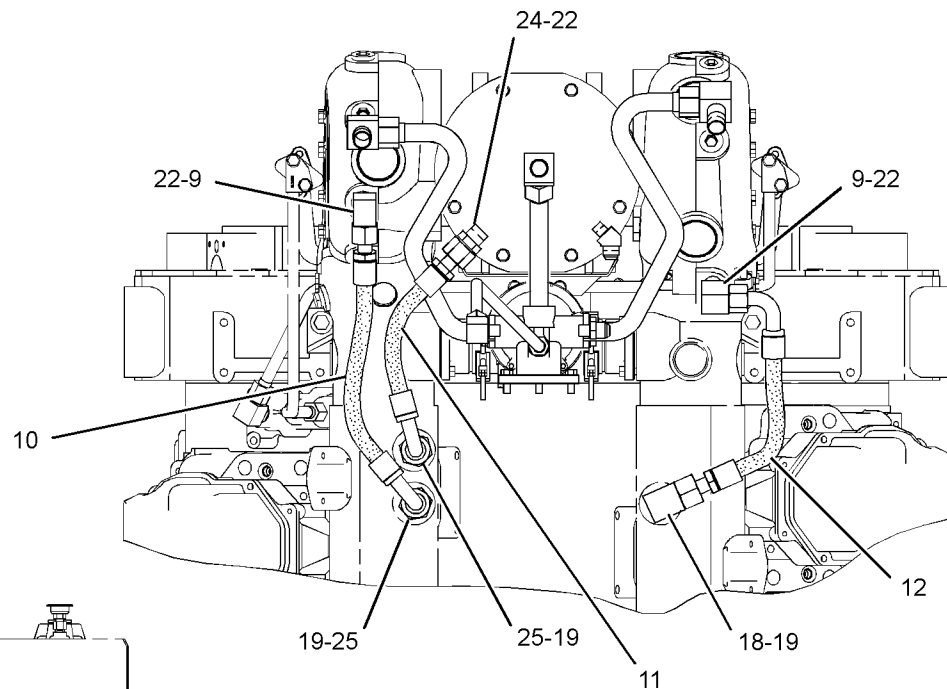
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-7963	1	TUBE AS						
	2	1	2W-7964	1	TUBE AS						
	3	1	2W-7977	1	TUBE AS						
	4	1	4W-2109	4	RETAINER						
	5	1	4W-2110	2	RING-RETAINING						
	6	1	7C-3917	1	TUBE AS						
	7	1	7E-6761	1	HOUSING						
	8	1	7N-3368	1	GASKET						
C	9	1	9X-2398	2	ELBOW						
C	10	1	293-5522	1	HOSE AS						
C	11	1	293-5523	1	HOSE AS						
C	12	1	293-5524	1	HOSE AS						
	13	1	001-7004	2	FITTING-FLARED						
C	14	1	001-7042	1	ELBOW						
	15	1	006-2325	1	ELBOW-FLARED						
	16	1	090-3000	1	ELBOW-FLARED						
	17	1	0S-1594	7	BOLT (3/8-16X1-IN)						
C	18	1	131-4863	1	ELBOW						
C	19	1	5K-9090	3	SEAL-O-RING						
	20	1	5M-2894	4	WASHER-HARD (10.2X18.5X2.5-MM THK)						
C	21	1	6V-8649	2	ELBOW-FLARED						
C	22	1	6V-9746	3	SEAL-O-RING						
C	23	1	7L-4773	3	SEAL-O-RING						
C	24	1	8C-6874	1	CONNECTOR						
C	25	1	8C-6875	2	CONNECTOR						

C- CHANGE FROM PREVIOUS TYPE

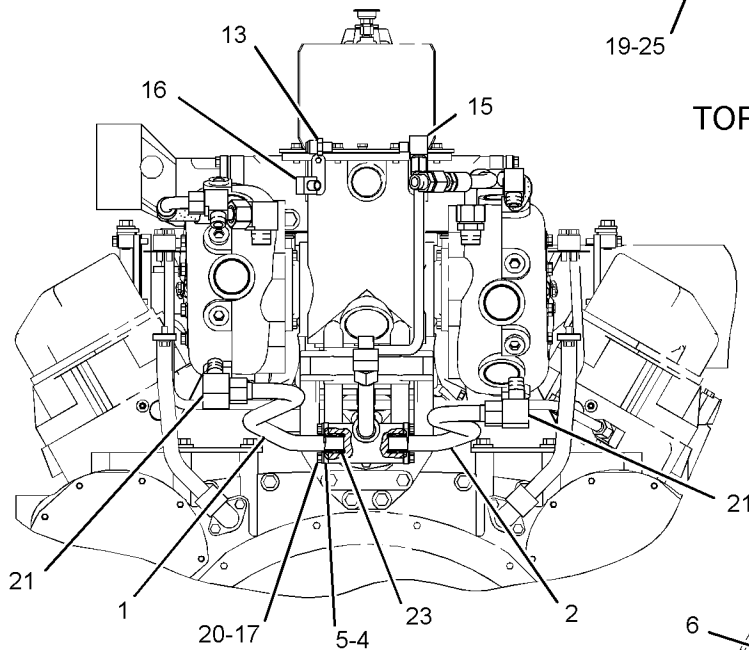
COOLING SYSTEM

4W-5771 LINES GP-WATER (contd.)

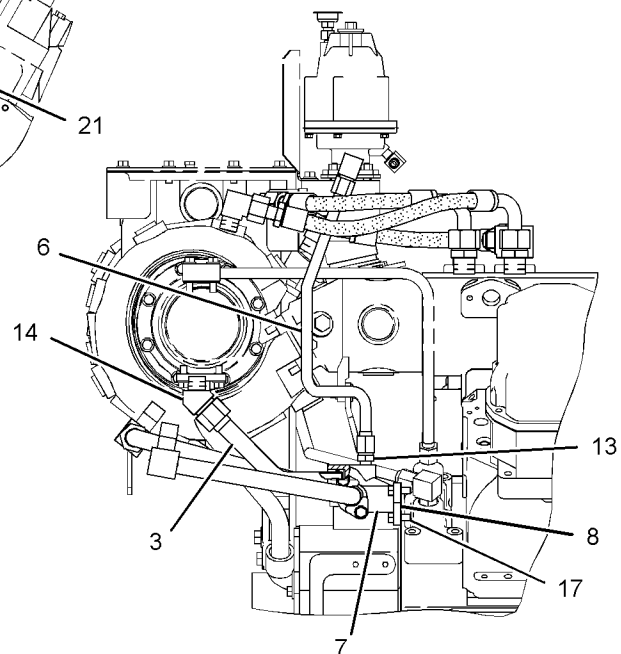
i02834003



TOP VIEW OF ENGINE



REAR VIEW OF ENGINE



RIGHT SIDE VIEW OF ENGINE

GRAPHIC #1

<END>

g01372334

COOLING SYSTEM

7E-0008 LINES GP-WATER-OIL COOLER

S/N: ZBA1-UP

PART OF 120-6124, 129-8220 CONVERSION AR
AN ATTACHMENT

TYPE 1

SMCS-1355, 1380, 1393

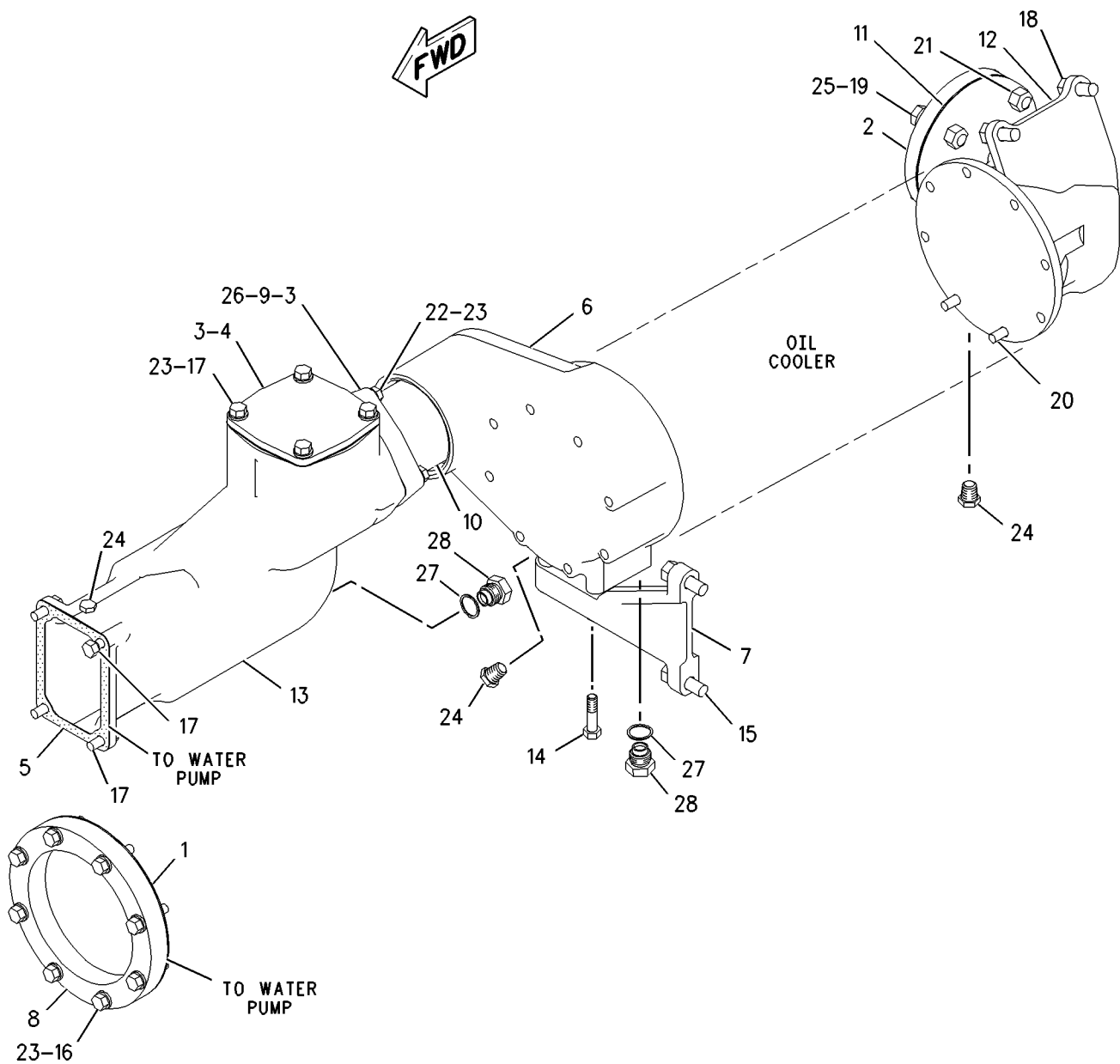
i02719168

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1S-5772	1	GASKET						
	2	1	2W-5225	1	FLANGE						
	3	1	4N-1320	2	GASKET						
	4	1	115-7848	1	PLATE-COVER						
	5	1	7N-4932	1	GASKET						
	6	1	7N-4939	1	BONNET-OIL COOLER						
	7	1	7N-4940	1	BRACKET						
	8	1	7N-7009	1	FLANGE						
	9	1	8N-0386	1	FLANGE						
	10	1	8N-7641	1	TUBE						
	11	1	9Y-6893	1	GASKET						
	12	1	9Y-6895	1	ADAPTER-OIL COOLER						
	13	1	120-7421	1	ADAPTER						
	14	1	0S-1571	2	BOLT (3/8-16X1.75-IN)						
	15	1	0S-1585	2	BOLT (1/2-13X1.5-IN)						
	16	1	0S-1591	8	BOLT (3/8-16X1.5-IN)						
	17	1	0S-1594	8	BOLT (3/8-16X1-IN)						
	18	1	0S-1595	2	BOLT (1/2-13X1.25-IN)						
	19	1	1A-1460	4	BOLT (1/2-13X2-IN)						
	20	1	1A-2029	2	BOLT (3/8-16X1.125-IN)						
	21	1	1F-7958	4	NUT-FULL (1/2-13-THD)						
	22	1	2A-4639	4	BOLT (3/8-16X1.625-IN)						
	23	1	5M-2894	16	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	24	1	8T-6765	3	PLUG-PIPE						
	25	1	5P-8245	4	WASHER-HARD (13.5X25.5X3-MM THK)						
	26	1	6V-5066	2	SEAL-O-RING						
	27	1	6V-6609	2	SEAL-O-RING						
	28	1	9S-4185	2	PLUG-O-RING						

COOLING SYSTEM

7E-0008 LINES GP-WATER (contd.)

i02719168



GRAPHIC #1

<END>

g00858976

COOLING SYSTEM

7E-0008 LINES GP-WATER-OIL COOLER

S/N: ZBA1-UP

PART OF 120-6124, 129-8220 CONVERSION AR
AN ATTACHMENT

TYPE 2

SMCS-1355, 1380, 1393

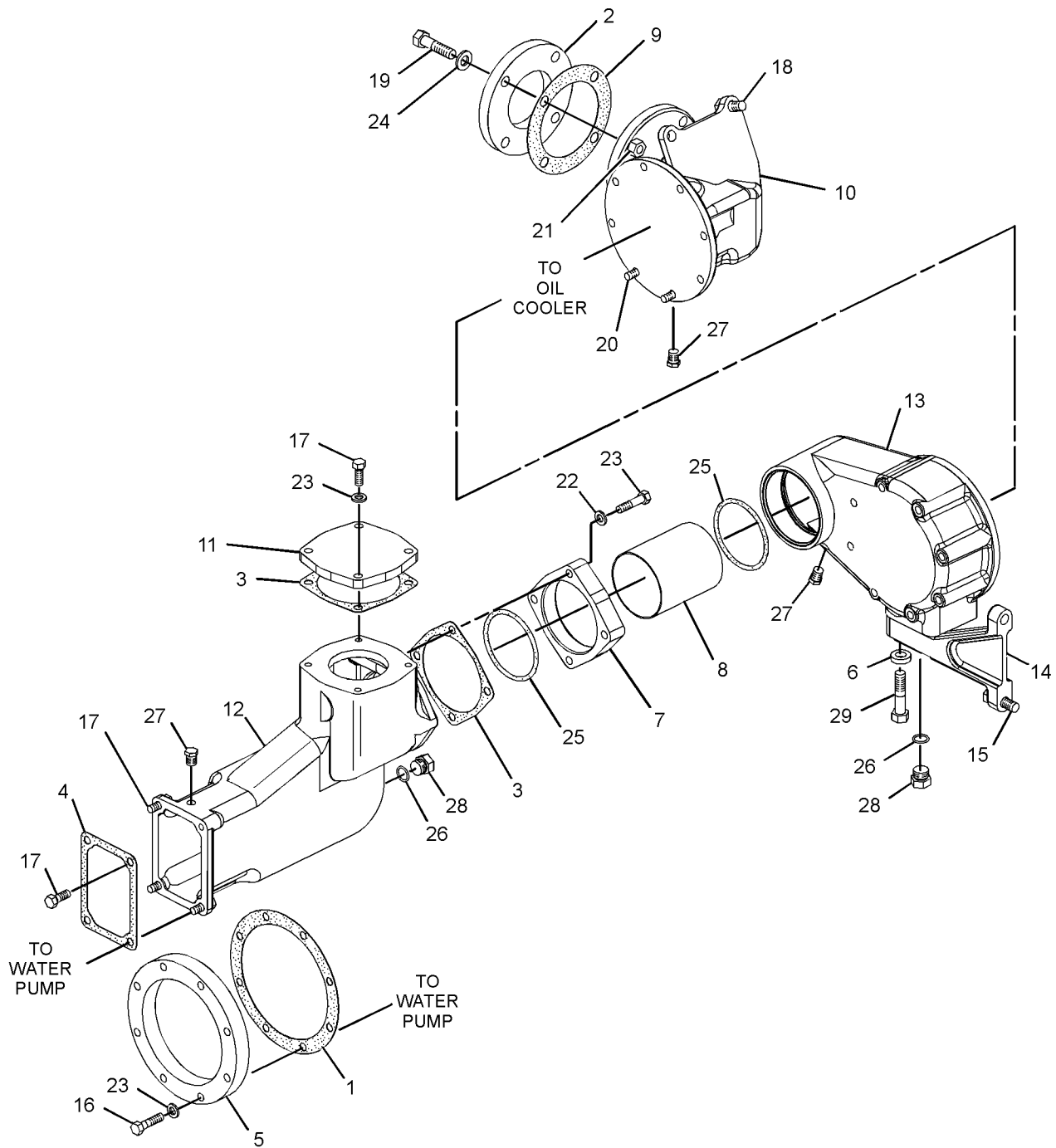
i02834012

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1S-5772	1	GASKET						
	2	1	2W-5225	1	FLANGE						
	3	1	4N-1320	2	GASKET						
	4	1	7N-4932	1	GASKET						
	5	1	7N-7009	1	FLANGE						
C	6	1	8B-9725	2	BOSS						
	7	1	8N-0386	1	FLANGE						
	8	1	8N-7641	1	TUBE						
	9	1	9Y-6893	1	GASKET						
	10	1	9Y-6895	1	ADAPTER-OIL COOLER						
	11	1	115-7848	1	PLATE-COVER						
	12	1	120-7421	1	ADAPTER						
C	13	1	278-0539	1	HOUSING-OIL COOLER						
C	14	1	278-0540	1	BRACKET						
	15	1	0S-1585	2	BOLT (1/2-13X1.5-IN)						
	16	1	0S-1591	8	BOLT (3/8-16X1.5-IN)						
	17	1	0S-1594	8	BOLT (3/8-16X1-IN)						
	18	1	0S-1595	2	BOLT (1/2-13X1.25-IN)						
	19	1	1A-1460	4	BOLT (1/2-13X2-IN)						
	20	1	1A-2029	2	BOLT (3/8-16X1.125-IN)						
	21	1	1F-7958	4	NUT-FULL (1/2-13-THD)						
	22	1	2A-4639	4	BOLT (3/8-16X1.625-IN)						
	23	1	5M-2894	16	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	24	1	5P-8245	4	WASHER-HARD (13.5X25.5X3-MM THK)						
	25	1	6V-5066	2	SEAL-O-RING						
	26	1	6V-6609	2	SEAL-O-RING						
	27	1	8T-6765	3	PLUG-PIPE						
	28	1	9S-4185	2	PLUG-O-RING						
C	29	1	9X-8873	2	BOLT (1/2-13X2.25-IN)						
C- CHANGE FROM PREVIOUS TYPE											

COOLING SYSTEM

7E-0008 LINES GP-WATER (contd.)

i02834012



GRAPHIC #1

<END>

g01374392

COOLING SYSTEM

7E-3375 LINES GP-WATER-OIL COOLER

S/N: ZBA1-329

PART OF 120-4107 CONVERSION AR
AN ATTACHMENT

SMCS-1355, 1380, 1393

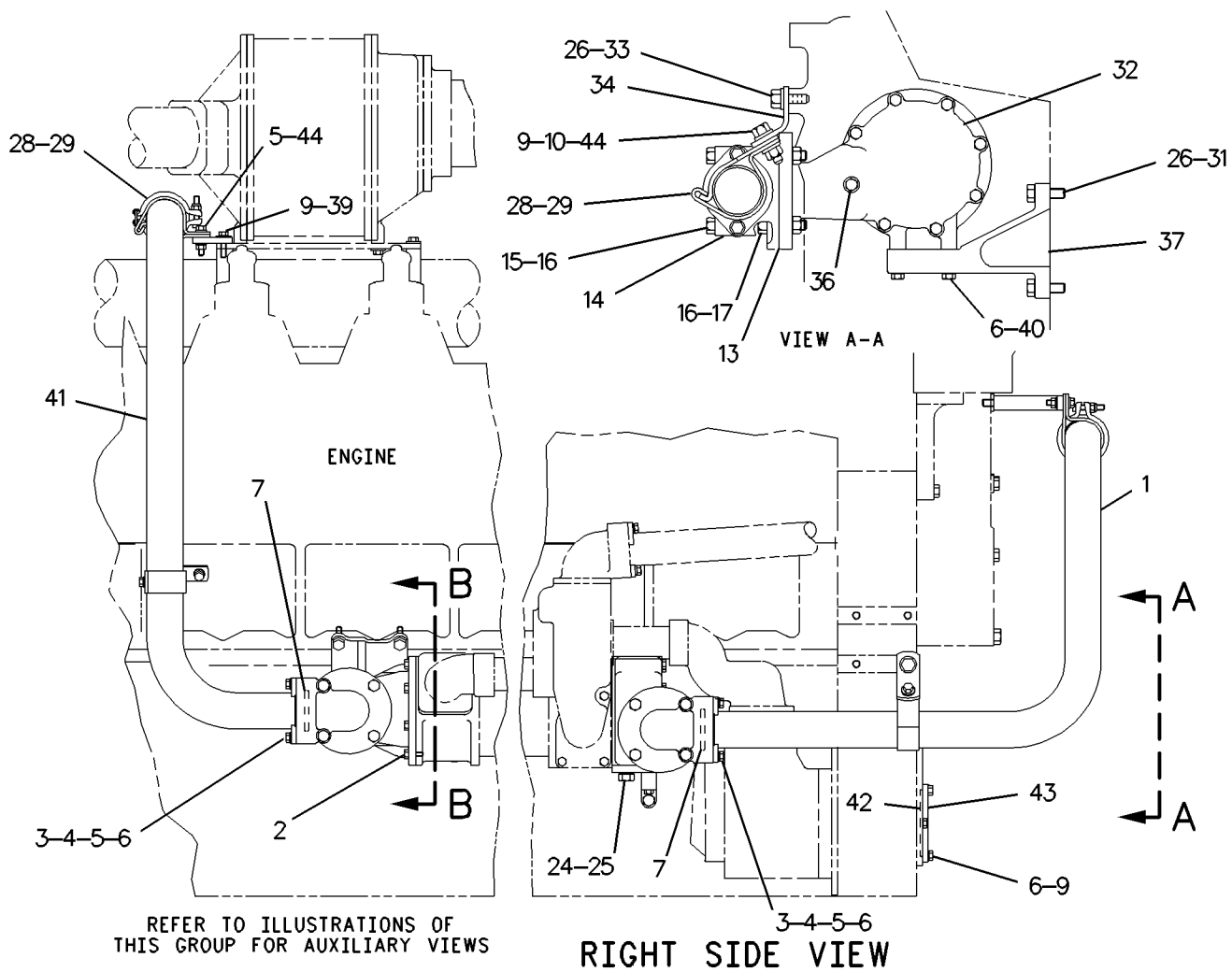
i01174224

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	7E-3378	1	TUBE	
	2	1	1A-2029	2	BOLT (3/8-16X1.125-IN)	
	3	1,2	4W-0531	6	RETAINER	
	4	1,2	4W-0530	3	RING-RETAINING	
	5	1,2	0S-1594	8	BOLT (3/8-16X1-IN)	
	6	1,2	5M-2894	12	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	7	1,2	8T-1919	3	SEAL-O-RING	
	8	2	9Y-6896	1	BRACKET	
	9	1,2	0S-1591	8	BOLT (3/8-16X1.5-IN)	
	10	1,2	9S-8752	5	NUT-FULL (3/8-16-THD)	
	11	2	9Y-6895	1	ADAPTER-OIL COOLER	
	12	2	0S-1595	4	BOLT (1/2-13X1.25-IN)	
	13	1,2	9Y-6893	2	GASKET	
	14	1,2	9Y-6887	2	ELBOW-OIL COOLER	
	15	1,2	8S-9089	4	BOLT (1/2-13X4.5-IN)	
	16	1,2	1F-7958	8	NUT-FULL (1/2-13-THD)	
	17	1,2	1A-1460	4	BOLT (1/2-13X2-IN)	
	18	2	8T-6765	2	PLUG-PIPE	
	19	2	8S-9092	4	BOLT (5/8-11X2.25-IN)	
	20	2	4K-0367	4	NUT-FULL (5/8-11-THD)	
	21	2	9Y-8264	1	ELBOW (INLET)	
	22	2	7E-3470	1	BRACKET	
	23	2	7E-3379	1	TUBE AS	
	24	1	9M-4202	1	PLUG-DRAIN	
	25	1	4B-8407	1	GASKET-COPPER	
	26	1,2	5P-8245	6	WASHER-HARD (13.5X25.5X3-MM THK)	
	27	2	9S-9635	1	JOINT AS-TUBE	
		2	9X-7523	2	SEAL	
	28	1,2	6V-1582	6	CLIP (TAB)	
	29	1,2	6V-1581	6	CLIP (SLOT)	
	30	2	9Y-6890	1	BRACKET	
	31	1	0S-1585	2	BOLT (1/2-13X1.5-IN)	
	32	1	9Y-6894	1	ADAPTER-OIL COOLER	
	33	1,2	6H-1717	2	BOLT (1/2-13X1.125-IN)	
	34	1	7E-3377	1	BRACKET	
	35	2	2A-4639	2	BOLT (3/8-16X1.625-IN)	
	36	1	1A-5183	1	BOLT (3/8-16X4.75-IN)	
	37	1	7N-4940	1	BRACKET	
	38	2	9Y-8069	1	GASKET	
	39	1	9Y-6897	1	BRACKET	
	40	1	0S-1571	2	BOLT (3/8-16X1.75-IN)	
	41	1	9Y-6888	1	TUBE	
	42	1	5H-6734	1	SEAL-O-RING	
	43	1	7E-3376	1	COVER	
	44	1,2	9L-9132	12	WASHER (10.2X25.5X2.5-MM THK)	

COOLING SYSTEM

7E-3375 LINES GP-WATER (contd.)

i01174224



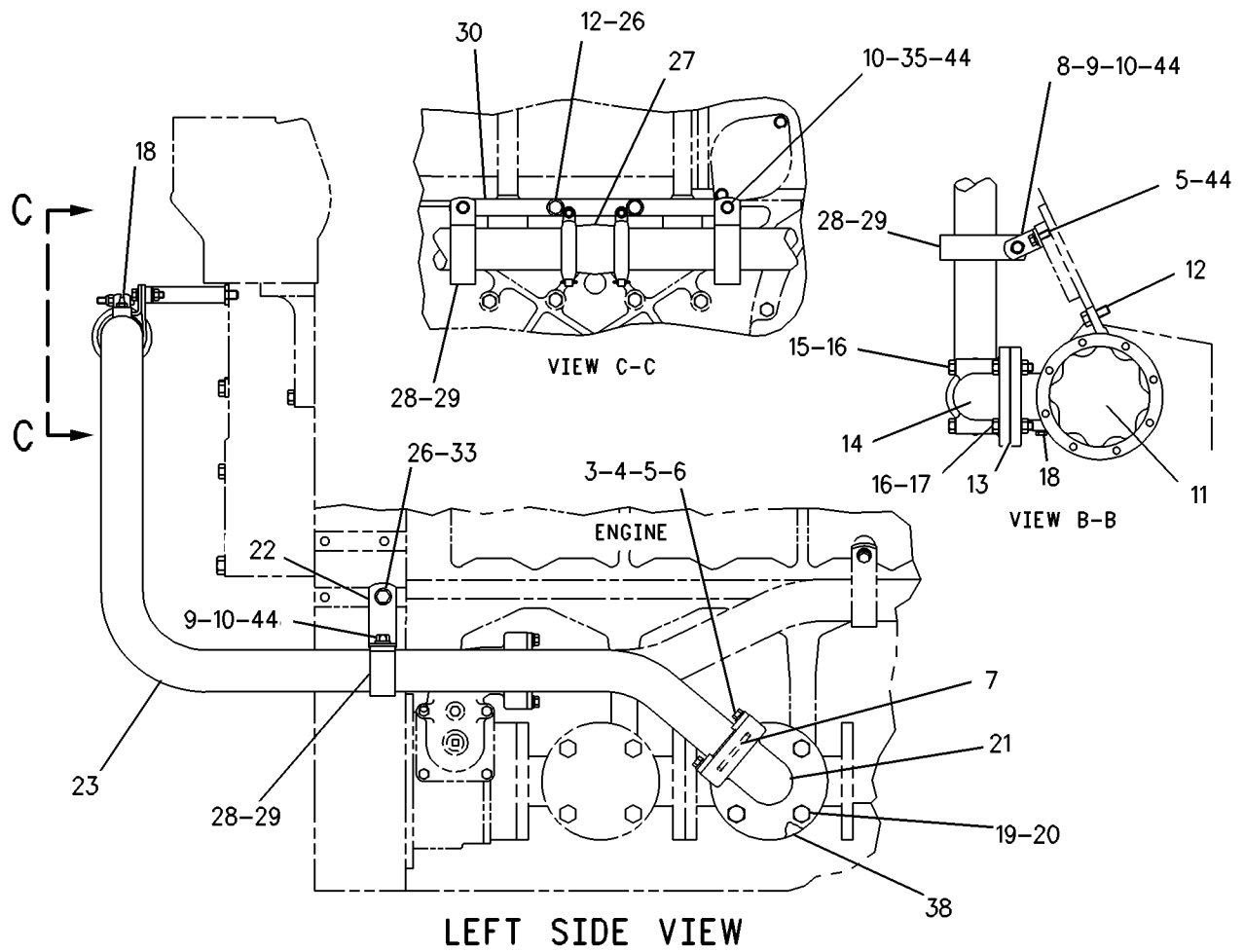
GRAPHIC #1

g00627274

COOLING SYSTEM

7E-3375 LINES GP-WATER (contd.)

i01174224



GRAPHIC #2

<END>

g00627273

COOLING SYSTEM

7E-3887 LINES GP-WATER-UPPER

S/N: ZBA1-UP

PART OF 120-4107, 120-6124 CONVERSION AR
AN ATTACHMENT

SMCS-1355, 1380, 1393

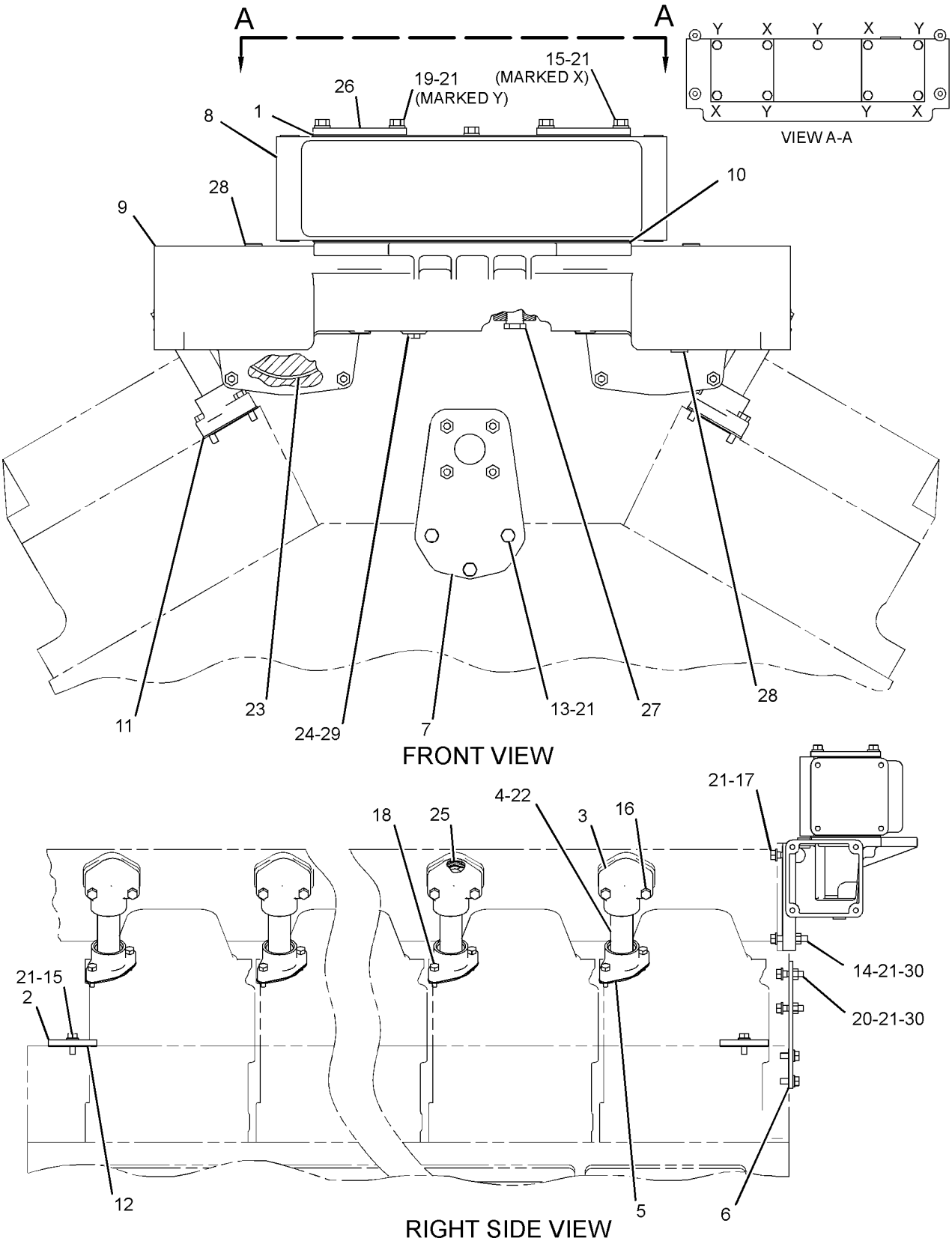
i02834019

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2N-0931	2	GASKET						
	2	1	6H-6698	2	COVER						
	3	1	7E-8888	16	ELBOW						
	4	1	7E-8889	16	TUBE						
	5	1	7E-8890	16	COLLAR						
	6	1	7N-3368	1	GASKET						
	7	1	9Y-7763	1	SUPPORT						
	8	1	9Y-8539	1	HOUSING-REGULATOR						
	9	1	9Y-8540	1	HOUSING-REGULATOR						
	10	1	153-1810	1	SEAL-INTEGRAL						
	11	1	179-2960	16	SEAL-INTEGRAL						
	12	1	230-1072	2	GASKET						
	13	1	0L-1351	3	BOLT (3/8-16X0.875-IN)						
	14	1	0S-1590	4	BOLT (3/8-16X2-IN)						
	15	1	0S-1594	8	BOLT (3/8-16X1-IN)						
	16	1	0S-1619	32	BOLT (3/8-16X3-IN)						
	17	1	1A-2029	4	BOLT (3/8-16X1.125-IN)						
	18	1	1B-7182	32	BOLT (5/16-18X1.25-IN)						
	19	1	1D-4706	5	BOLT (3/8-16X6-IN)						
	20	1	3B-1915	4	BOLT (3/8-16X1.375-IN)						
	21	1	5M-2894	28	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	22	1	5P-7204	32	SEAL-O-RING						
	23	1	6V-6809	2	SEAL-O-RING						
	24	1	6V-9027	1	SEAL-O-RING						
	25	1	6V-9769	16	SEAL-O-RING						
	26	1	7N-4928	2	COVER						
	27	1	7W-6492	1	PLUG-PIPE						
	28	1	8T-6762	3	PLUG-PIPE						
	29	1	9S-4182	1	PLUG-O-RING						
	30	1	9S-8752	8	NUT-FULL (3/8-16-THD)						

COOLING SYSTEM

7E-3887 LINES GP-WATER (contd.)

i02834019



GRAPHIC #1

<END>

g01167754

COOLING SYSTEM

7E-4804 LINES GP-WATER-OIL COOLER

S/N: ZBA1-303

SMCS-1355, 1380, 1393

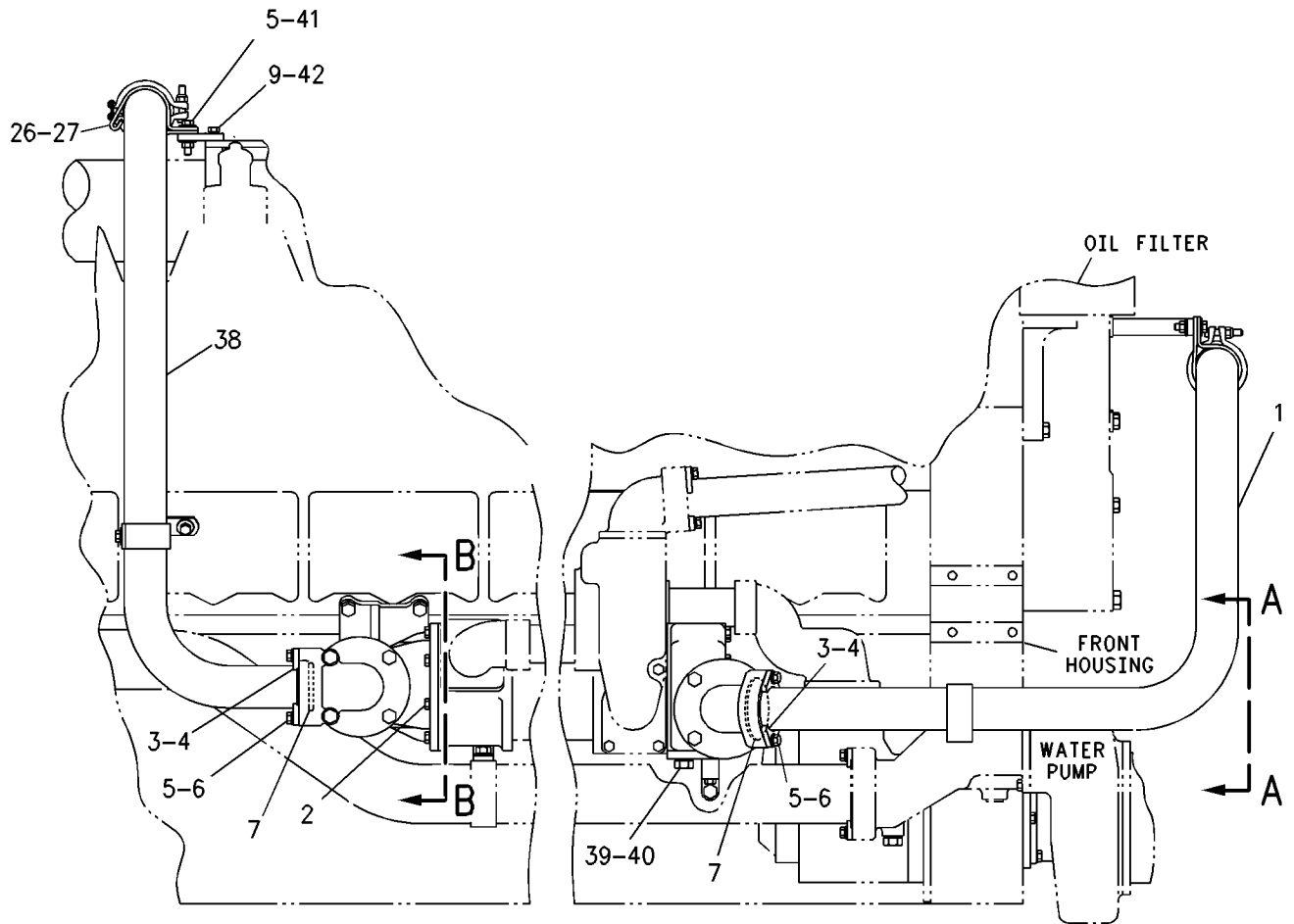
i01176400

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9Y-6889	1	TUBE						
	2	1	1A-2029	2	BOLT (3/8-16X1.125-IN)						
	3	1,2	4W-0531	6	RETAINER						
	4	1,2	4W-0530	3	RING-RETAINING						
	5	1,2	0S-1594	9	BOLT (3/8-16X1-IN)						
	6	1,2	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	7	1,2	8T-1919	3	SEAL-O-RING						
	8	2	9Y-6896	1	BRACKET						
	9	1,2	0S-1591	2	BOLT (3/8-16X1.5-IN)						
	10	1,2	9S-8752	5	NUT-FULL (3/8-16-THD)						
	11	2	9Y-6895	1	ADAPTER-OIL COOLER						
	12	2	0S-1595	4	BOLT (1/2-13X1.25-IN)						
	13	1,2	9Y-6893	2	GASKET						
	14	2	9Y-6887	1	ELBOW-OIL COOLER						
	15	2	8S-9089	2	BOLT (1/2-13X4.5-IN)						
	16	1,2	1F-7958	8	NUT-FULL (1/2-13-THD)						
	17	1,2	1A-1460	6	BOLT (1/2-13X2-IN)						
	18	2	8T-6765	2	PLUG-PIPE						
	19	2	8S-9092	4	BOLT (5/8-11X2.25-IN)						
	20	2	4K-0367	4	NUT-FULL (5/8-11-THD)						
	21	2	9Y-8264	1	ELBOW (INLET)						
	22	2	5F-4899	1	BOLT (3/8-16X5.5-IN)						
	23	2	7E-3379	2	TUBE AS						
	24	1,2	5P-8245	4	WASHER-HARD (13.5X25.5X3-MM THK)						
	25	2	9S-9635	1	JOINT AS-TUBE						
		2	9X-7523	2	SEAL						
	26	1,2	6V-1582	6	CLIP (TAB)						
	27	1,2	6V-1581	6	CLIP (SLOT)						
	28	2	9Y-6890	1	BRACKET						
	29	1	0S-1585	2	BOLT (1/2-13X1.5-IN)						
	30	1	9Y-6894	1	ADAPTER-OIL COOLER						
	31	1	9Y-6892	1	ELBOW-OIL COOLER						
	32	1	0L-1351	1	BOLT (3/8-16X0.875-IN)						
	33	1	9Y-6891	1	BRACKET						
	34	1	1A-5183	1	BOLT (3/8-16X4.75-IN)						
	35	1	7N-4940	1	BRACKET						
	36	2	9Y-8069	1	GASKET						
	37	1	0S-1571	3	BOLT (3/8-16X1.75-IN)						
	38	1	9Y-6888	1	TUBE						
	39	1	9M-4202	1	PLUG-DRAIN						
	40	1	4B-8407	1	GASKET-COPPER						
	41	1,2	9L-9132	12	WASHER (10.2X25.5X2.5-MM THK)						
	42	1	9Y-6897	1	BRACKET						
	43	2	2A-4639	2	BOLT (3/8-16X1.625-IN)						
	44	2	1B-4971	1	SPACER (0.406X1X1-IN THK)						

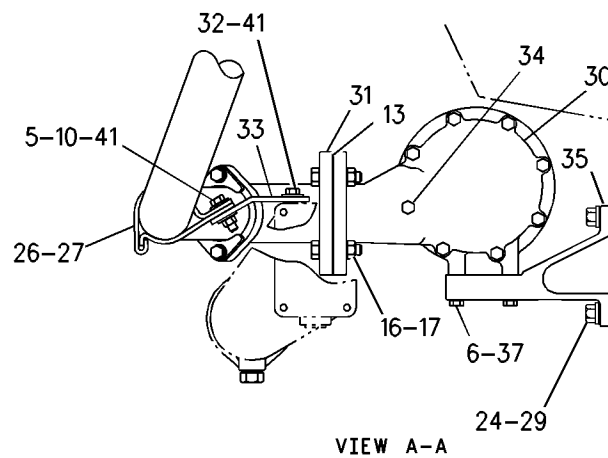
COOLING SYSTEM

7E-4804 LINES GP-WATER (contd.)

i01176400



RIGHT SIDE VIEW



REFER TO ALL ILLUSTRATIONS OF THIS GROUP FOR AUXILIARY VIEWS

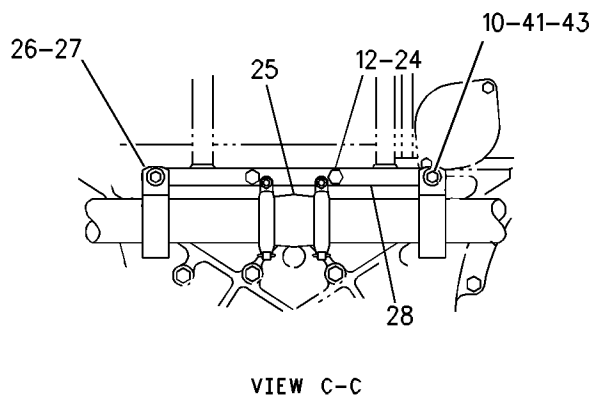
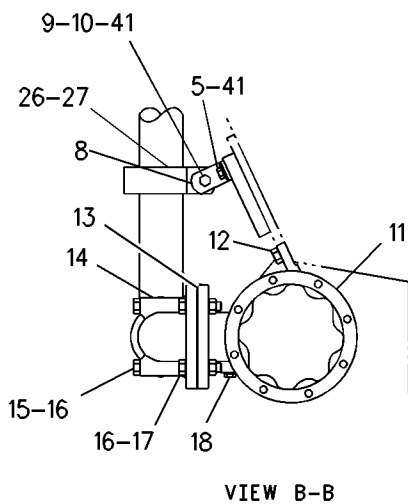
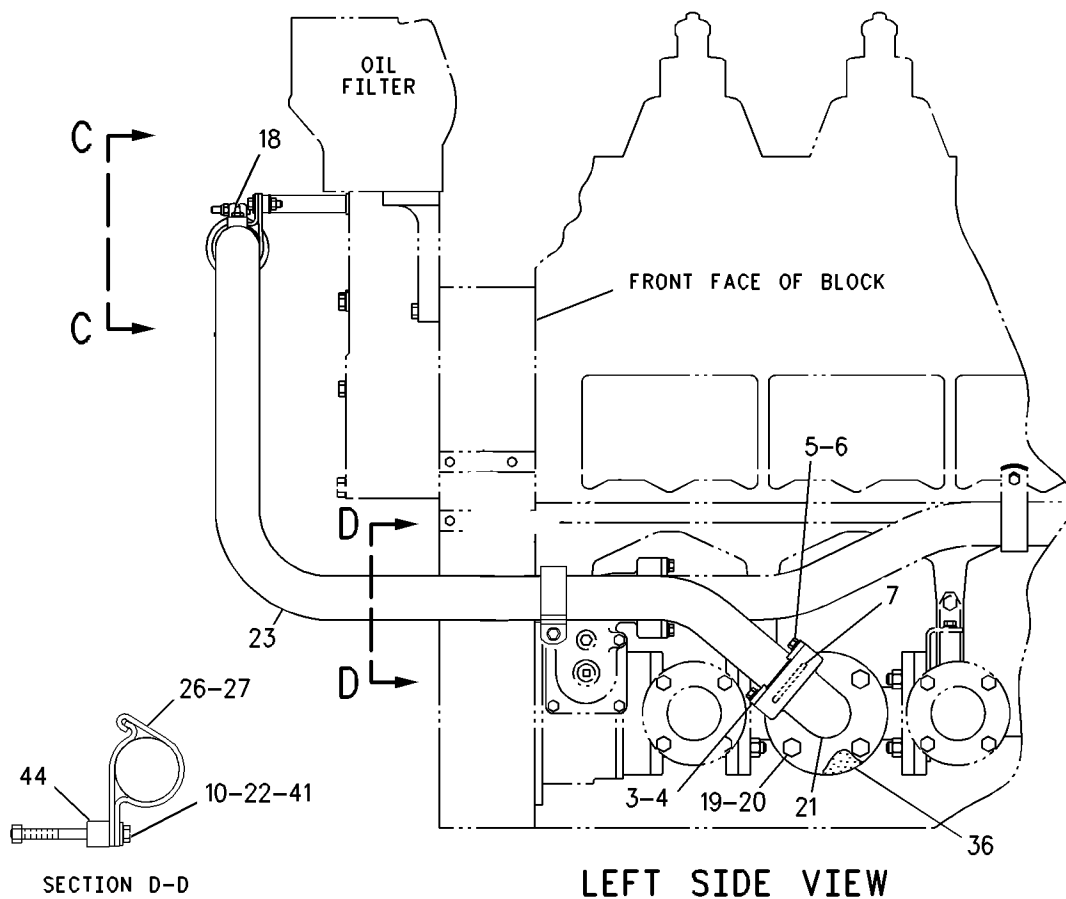
GRAPHIC #1

g00629645

COOLING SYSTEM

7E-4804 LINES GP-WATER (contd.)

i01176400



GRAPHIC #2

<END>

g00629644

COOLING SYSTEM

7E-4804 LINES GP-WATER-OIL COOLER

S/N: ZBA1-UP

SMCS-1355, 1380, 1393

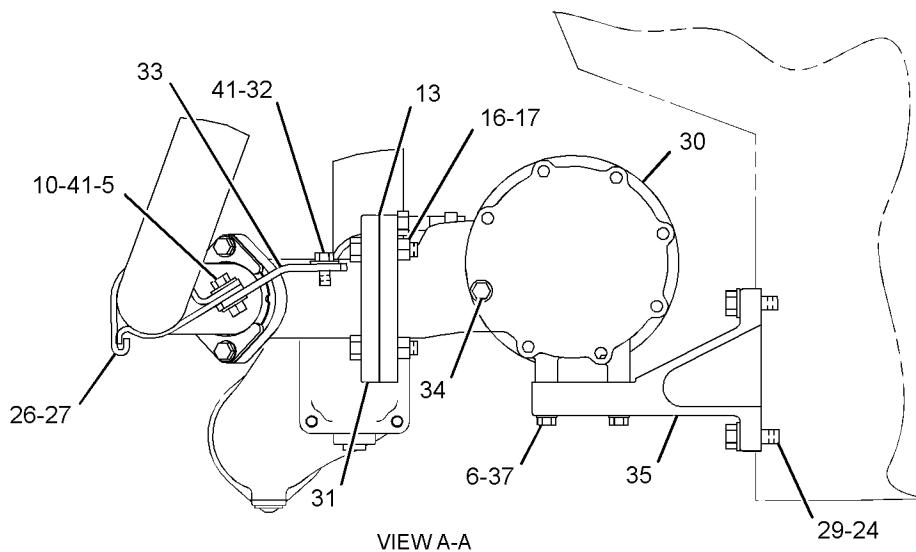
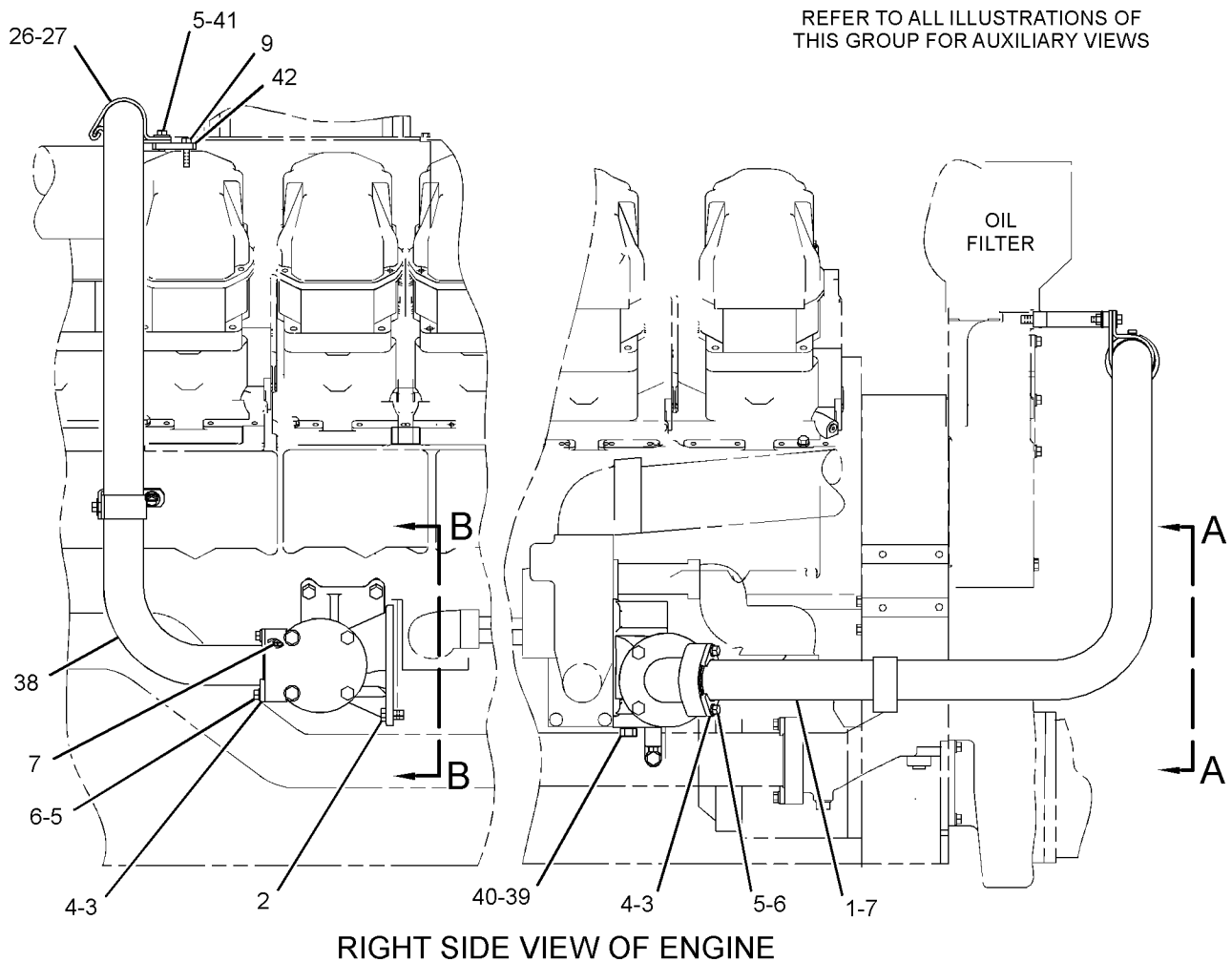
i02635688

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9Y-6889	1	TUBE						
	2	1	1A-2029	2	BOLT (3/8-16X1.125-IN)						
	3	1,2	4W-0531	6	RETAINER						
	4	1,2	4W-0530	3	RING-RETAINING						
	5	1,2	0S-1594	9	BOLT (3/8-16X1-IN)						
	6	1,2	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	7	1,2	8T-1919	3	SEAL-O-RING						
	8	2	9Y-6896	1	BRACKET						
	9	1,2	0S-1591	2	BOLT (3/8-16X1.5-IN)						
	10	1,2	9S-8752	5	NUT-FULL (3/8-16-THD)						
	11	2	9Y-6895	1	ADAPTER-OIL COOLER						
	12	2	0S-1595	4	BOLT (1/2-13X1.25-IN)						
	13	1,2	9Y-6893	2	GASKET						
	14	2	9Y-6887	1	ELBOW-OIL COOLER						
	15	2	8S-9089	2	BOLT (1/2-13X4.5-IN)						
	16	1,2	1F-7958	8	NUT-FULL (1/2-13-THD)						
	17	1,2	1A-1460	6	BOLT (1/2-13X2-IN)						
	18	2	8T-6765	2	PLUG-PIPE						
	22	2	5F-4899	1	BOLT (3/8-16X5.5-IN)						
	23	2	7E-3379	1	TUBE AS						
	24	1,2	5P-8245	4	WASHER-HARD (13.5X25.5X3-MM THK)						
	25	2	9S-9635	1	JOINT AS-TUBE						
		2	9X-7523	2	SEAL						
	26	1,2	6V-1582	6	CLIP (TAB)						
	27	1,2	6V-1581	6	CLIP (SLOT)						
	28	2	9Y-6890	1	BRACKET						
	29	1	0S-1585	2	BOLT (1/2-13X1.5-IN)						
	30	1	9Y-6894	1	ADAPTER-OIL COOLER						
	31	1	9Y-6892	1	ELBOW-OIL COOLER						
	32	1	0L-1351	1	BOLT (3/8-16X0.875-IN)						
	33	1	9Y-6891	1	BRACKET						
	34	1	1A-5183	1	BOLT (3/8-16X4.75-IN)						
	35	1	7N-4940	1	BRACKET						
	37	1	0S-1571	2	BOLT (3/8-16X1.75-IN)						
	38	1	9Y-6888	1	TUBE						
	39	1	9M-4202	1	PLUG-DRAIN (OIL COOLER)						
	40	1	4B-8407	1	GASKET-COPPER						
	41	1,2	9L-9132	12	WASHER (10.2X25.5X2.5-MM THK)						
	42	1	9Y-6897	1	BRACKET						
	43	2	2A-4639	2	BOLT (3/8-16X1.625-IN)						
	44	2	1B-4971	1	SPACER (0.406X1X1-IN THK)						

COOLING SYSTEM

7E-4804 LINES GP-WATER (contd.)

i02635688



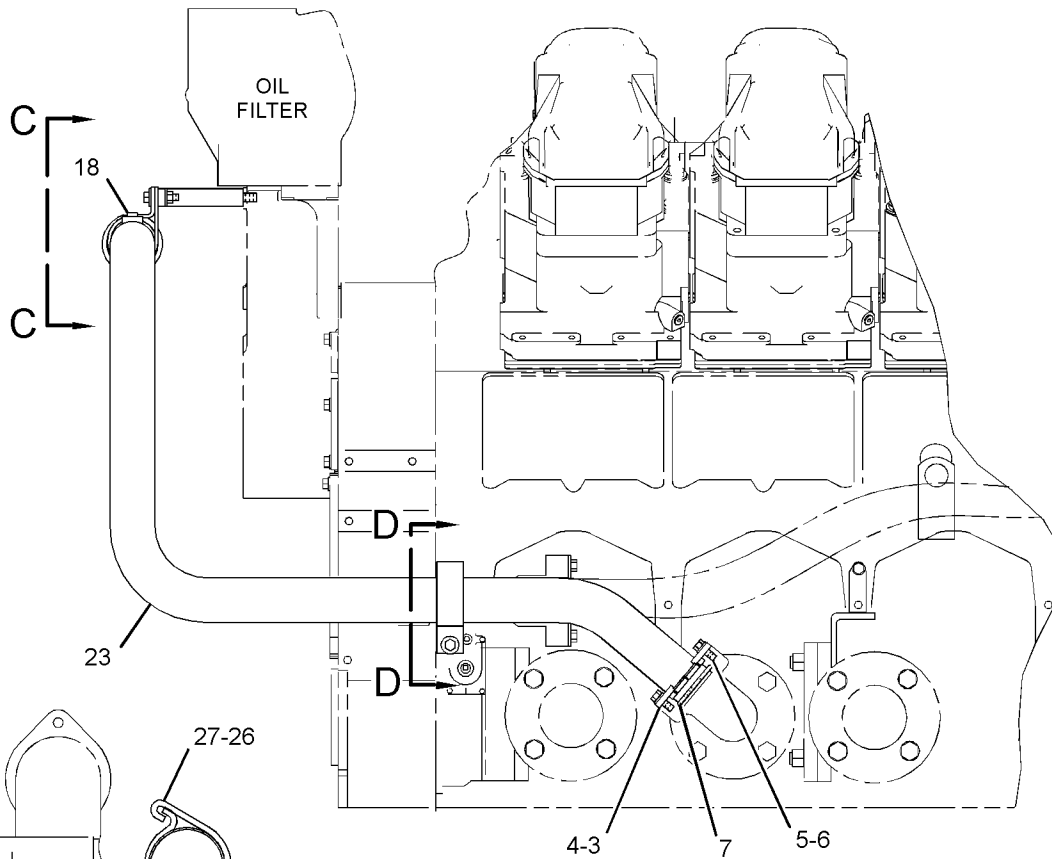
GRAPHIC #1

g01375494

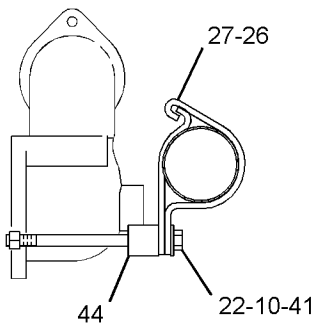
COOLING SYSTEM

7E-4804 LINES GP-WATER (contd.)

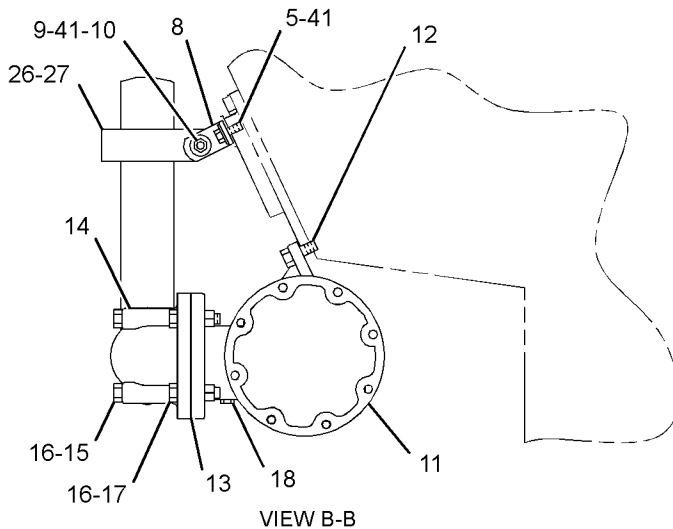
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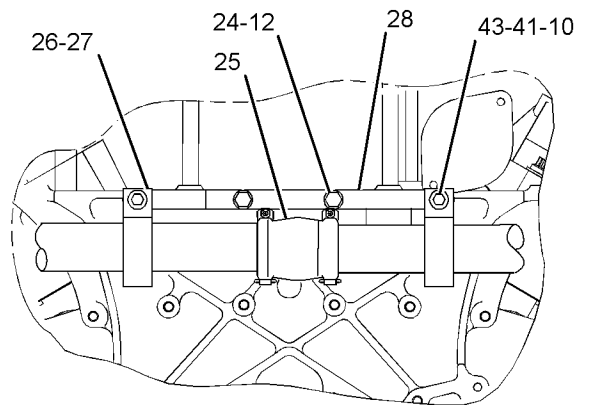
LEFT SIDE VIEW OF ENGINE



SECTION D-D



VIEW B-B



VIEW C-C

GRAPHIC #2

<END>

g01375495

COOLING SYSTEM

7E-6767 LINES GP-WATER-TURBOCHARGER & EXHAUST ELBOW

S/N: ZBA1-UP

TYPE 1

SMCS-1355, 1380, 1393

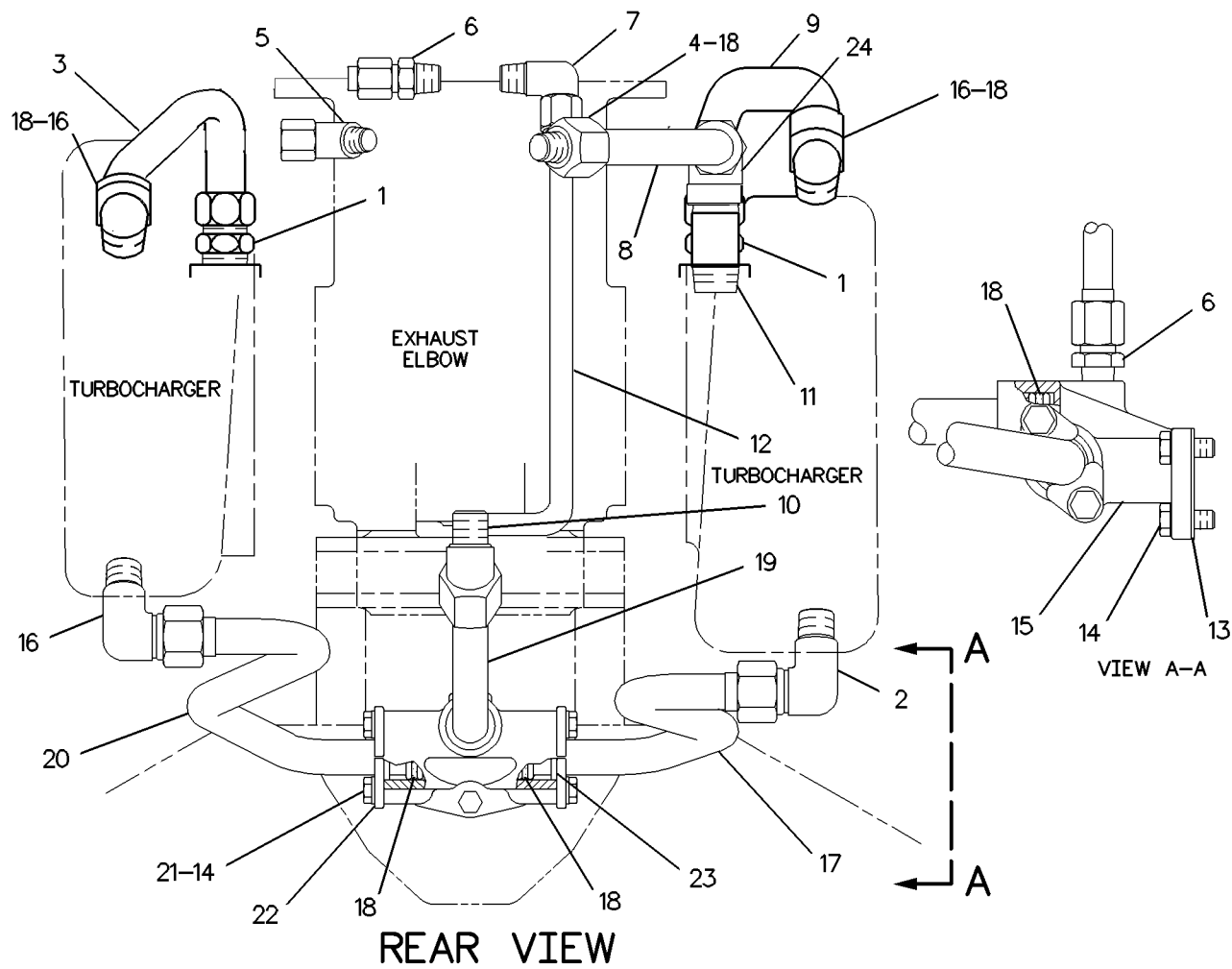
i02834032

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	009-4440	2	CONNECTOR						
	2	1	9S-7296	2	ELBOW-FLARED						
	3	1	7E-6765	1	TUBE AS						
	4	1	7E-6762	1	FITTING						
	5	1	090-3000	1	ELBOW-FLARED						
	6	1	001-7004	2	FITTING-FLARED						
	7	1	006-2325	1	ELBOW-FLARED						
	8	1	7E-6764	1	TUBE AS						
	9	1	7E-6766	1	TUBE AS						
	10	1	001-7042	2	ELBOW						
	11	1	6B-8129	1	NIPPLE-PIPE						
	12	1	7C-3917	1	TUBE AS						
	13	1	7N-3368	1	GASKET						
	14	1	0S-1594	7	BOLT (3/8-16X1-IN)						
	15	1	7E-6761	1	HOUSING						
	16	1	7E-7552	2	FITTING						
	17	1	2W-7964	1	TUBE AS						
	18	1	7L-4773	6	SEAL-O-RING						
	19	1	2W-7977	1	TUBE AS						
	20	1	2W-7963	1	TUBE AS						
	21	1	5M-2894	4	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	22	1	4W-2109	4	RETAINER						
	23	1	4W-2110	2	RING-RETAINING						
	24	1	3N-3893	2	ELBOW-FLARED						

COOLING SYSTEM

7E-6767 LINES GP-WATER (contd.)

i02834032



GRAPHIC #1

<END>

g00272952

COOLING SYSTEM

7E-6767 LINES GP-WATER-TURBOCHARGER & EXHAUST ELBOW

S/N: ZBA1-UP

TYPE 2

SMCS-1355, 1380, 1393

i02834034

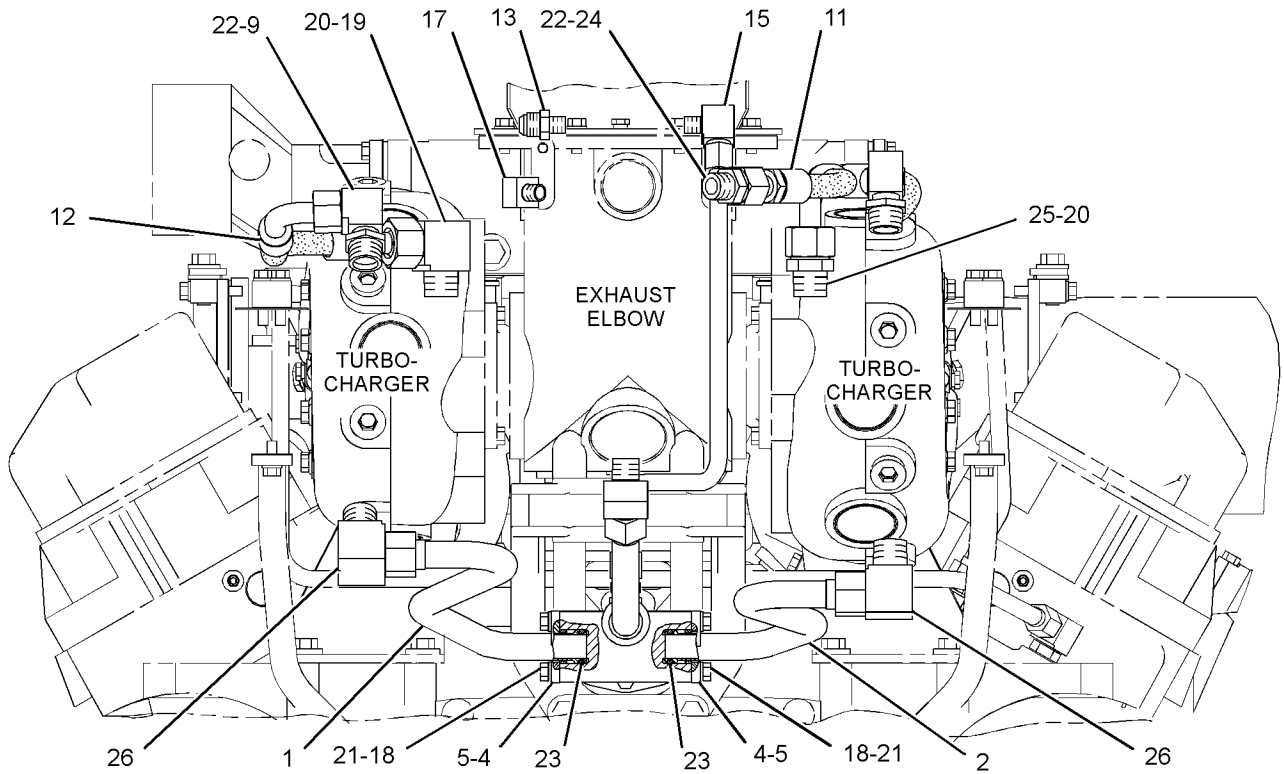
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	2W-7963	1	TUBE AS	
	2	1	2W-7964	1	TUBE AS	
	3	1	2W-7977	1	TUBE AS	
	4	1	4W-2109	4	RETAINER	
	5	1	4W-2110	2	RING-RETAINING	
	6	1	7C-3917	1	TUBE AS	
	7	1	7E-6761	1	HOUSING	
	8	1	7N-3368	1	GASKET	
C	9	1	9X-2398	2	ELBOW	
C	10	1	293-5522	1	HOSE AS	
C	11	1	293-5523	1	HOSE AS	
C	12	1	293-5524	1	HOSE AS	
	13	1	001-7004	2	FITTING-FLARED	
	14	1	001-7042	1	ELBOW	
	15	1	006-2325	1	ELBOW-FLARED	
C	16	1	011-7219	2	BUSHING-PIPE	
	17	1	090-3000	1	ELBOW-FLARED	
	18	1	0S-1594	7	BOLT (3/8-16X1-IN)	
C	19	1	131-4863	1	ELBOW	
C	20	1	5K-9090	3	SEAL-O-RING	
	21	1	5M-2894	4	WASHER-HARD (10.2X18.5X2.5-MM THK)	
C	22	1	6V-9746	3	SEAL-O-RING	
C	23	1	7L-4773	3	SEAL-O-RING	
C	24	1	8C-6874	1	CONNECTOR	
C	25	1	8C-6875	2	CONNECTOR	
C	26	1	9S-7296	2	ELBOW-FLARED	

C- CHANGE FROM PREVIOUS TYPE

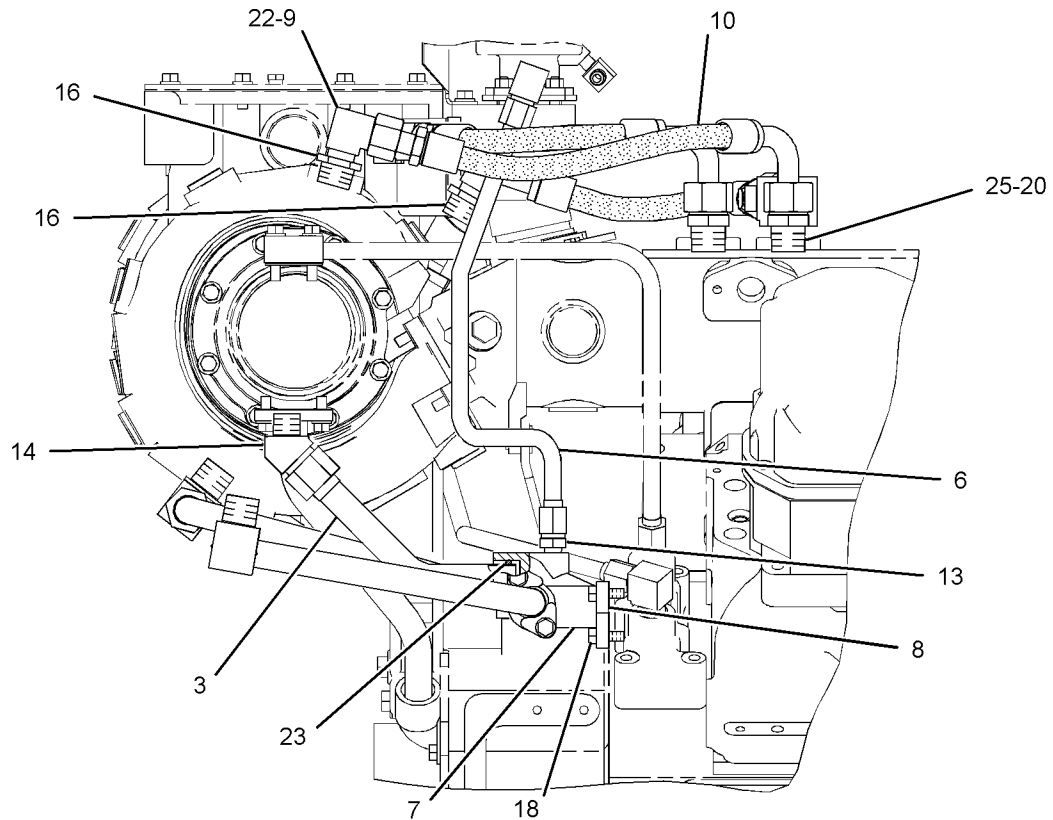
COOLING SYSTEM

7E-6767 LINES GP-WATER (contd.)

i02834034



REAR VIEW OF ENGINE



RIGHT SIDE VIEW OF ENGINE

<END>

GRAPHIC #1

g01367469

COOLING SYSTEM

9Y-3193 LINES GP-WATER-AFTERCOOLER

S/N: ZBA1-UP

PART OF 120-4107 CONVERSION AR
ALSO AN ATTACHMENT

SMCS-1355, 1380, 1393

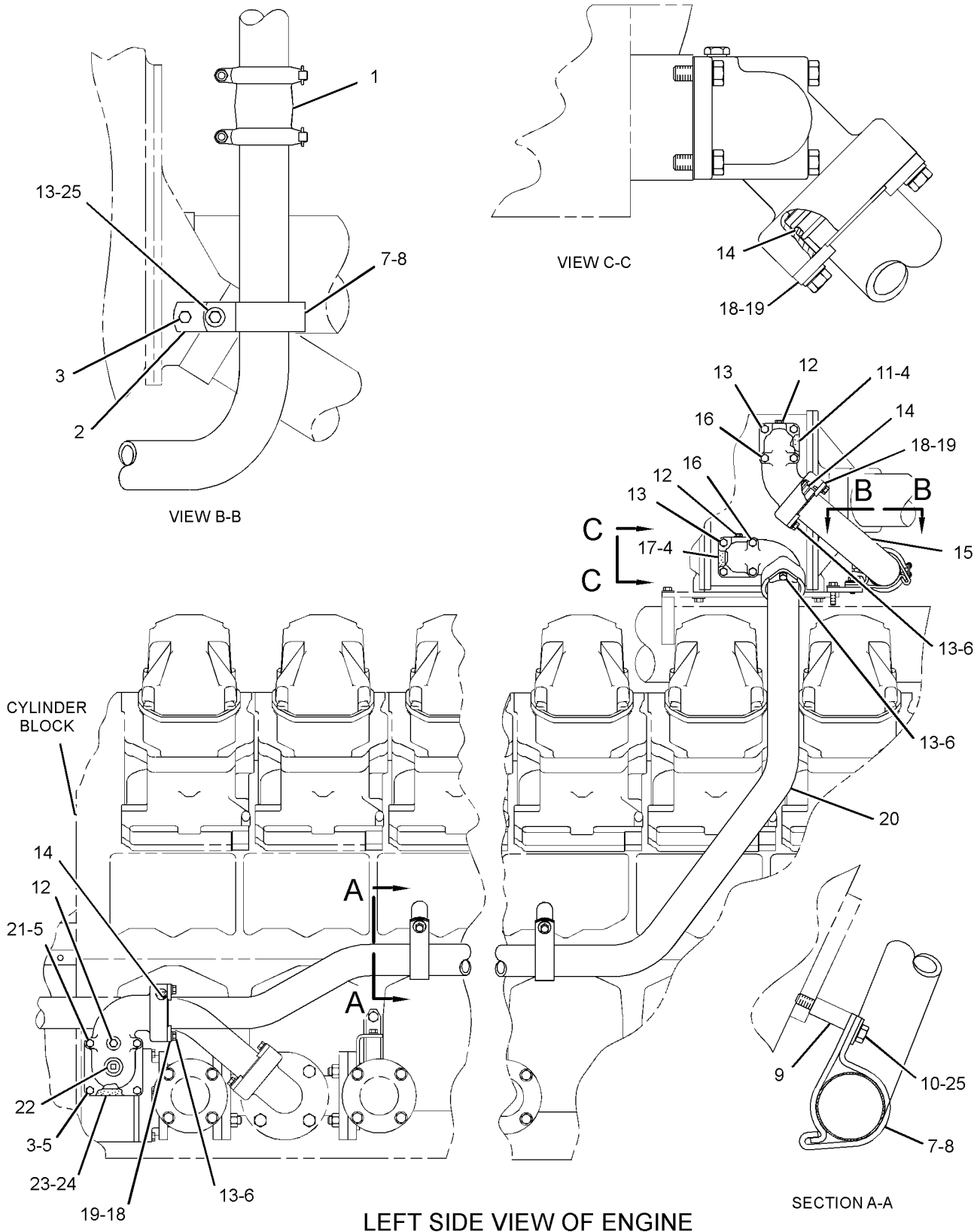
i02771413

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9S-9635	1	JOINT AS-TUBE						
		1	9X-7523	2	SEAL						
	2	1	9Y-6897	1	BRACKET						
	3	1	0S-1591	3	BOLT (3/8-16X1.5-IN)						
	4	1	5G-1442	2	GASKET						
	5	1	9S-8752	4	NUT-FULL (3/8-16-THD)						
	6	1	5M-2894	6	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	7	1	6V-1582	3	CLIP (TAB)						
	8	1	6V-1581	3	CLIP (SLOT)						
	9	1	7C-9560	2	SPACER (10.5X25X51-MM THK)						
	10	1	0L-1352	2	BOLT (3/8-16X3.25-IN)						
	11	1	9Y-8283	1	ELBOW (OUTLET)						
	12	1	8T-6765	3	PLUG-PIPE						
	13	1	0S-1594	11	BOLT (3/8-16X1-IN)						
	14	1	8T-1919	3	SEAL-O-RING						
	15	1	9Y-8284	1	TUBE						
	16	1	0T-0065	4	BOLT (3/8-16X3.5-IN)						
	17	1	9Y-8282	1	ELBOW (INLET)						
	18	1	4W-0530	3	RING-RETAINING						
	19	1	4W-0531	6	RETAINER						
	20	1	290-1360	1	TUBE						
	21	1	0T-0055	2	BOLT (3/8-16X4.25-IN)						
	22	1	8T-6762	1	PLUG-PIPE						
	23	1	9Y-8263	1	ELBOW						
	24	1	3P-6061	1	GASKET						
	25	1	9L-9132	3	WASHER (10.2X25.5X2.5-MM THK)						

COOLING SYSTEM

9Y-3193 LINES GP-WATER (contd.)

i02771413



GRAPHIC #1

<END>

g01393375

COOLING SYSTEM

9Y-5801 LINES GP-WATER-LOWER

S/N: ZBA1-UP

SMCS-1355, 1380, 1393

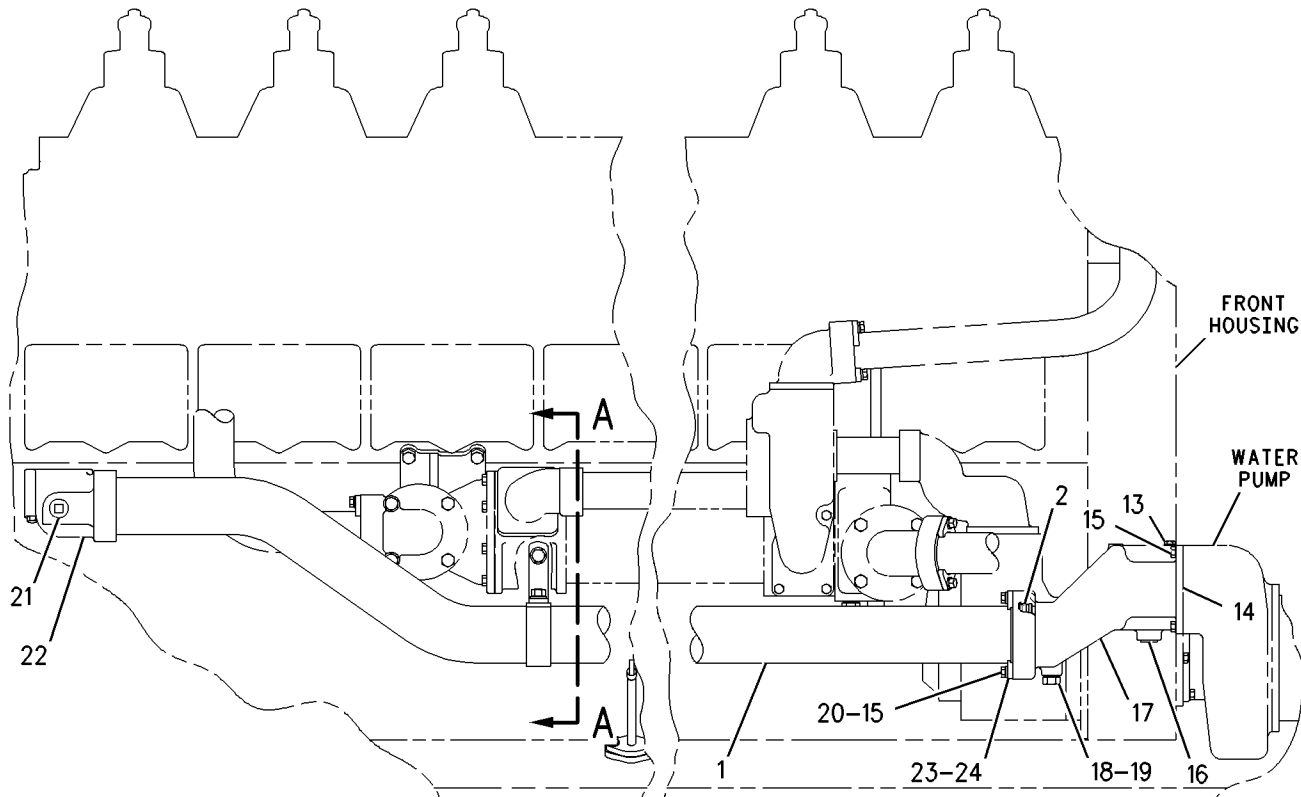
i01559834

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9Y-6885	1	TUBE						
	2	1	6V-5066	2	SEAL-O-RING						
	3	1	7N-4945	1	GASKET						
	4	1	0S-1588	2	BOLT (3/8-16X1.25-IN)						
	5	1	0T-0065	2	BOLT (3/8-16X3.5-IN)						
	6	1	0S-1595	1	BOLT (1/2-13X1.25-IN)						
	7	1	5P-8245	3	WASHER-HARD (13.5X25.5X3-MM THK)						
	8	1	9Y-6886	1	BRACKET						
	9	1	0S-1585	1	BOLT (1/2-13X1.5-IN)						
	10	1	1F-7958	1	NUT-FULL (1/2-13-THD)						
	11	1	6V-4356	1	CLIP (SLOT)						
	12	1	6V-4357	1	CLIP (TAB)						
	13	1	8T-6765	1	PLUG-PIPE						
	14	1	7N-4932	1	GASKET						
	15	1	0S-1594	6	BOLT (3/8-16X1-IN)						
	16	1	8T-6762	1	PLUG-PIPE						
	17	1	9Y-6884	1	ELBOW-WATER PUMP						
	18	1	9M-4202	1	PLUG-DRAIN						
	19	1	4B-8407	1	GASKET-COPPER						
	20	1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	21	1	8T-6761	1	PLUG-PIPE						
	22	1	7N-4944	1	ELBOW						
	23	1	8N-3639	2	RETAINER						
	24	1	8N-3640	1	RING-RETAINING						

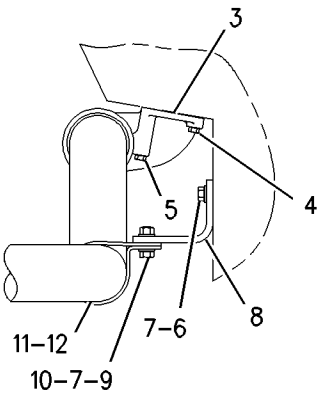
COOLING SYSTEM

9Y-5801 LINES GP-WATER (contd.)

i01559834



RIGHT SIDE VIEW



SECTION A-A

GRAPHIC #1

<END>

g00810712

COOLING SYSTEM

9Y-9185 LINES GP-WATER-BYPASS

S/N: ZBA1-UP

SMCS-1355, 1380, 1393

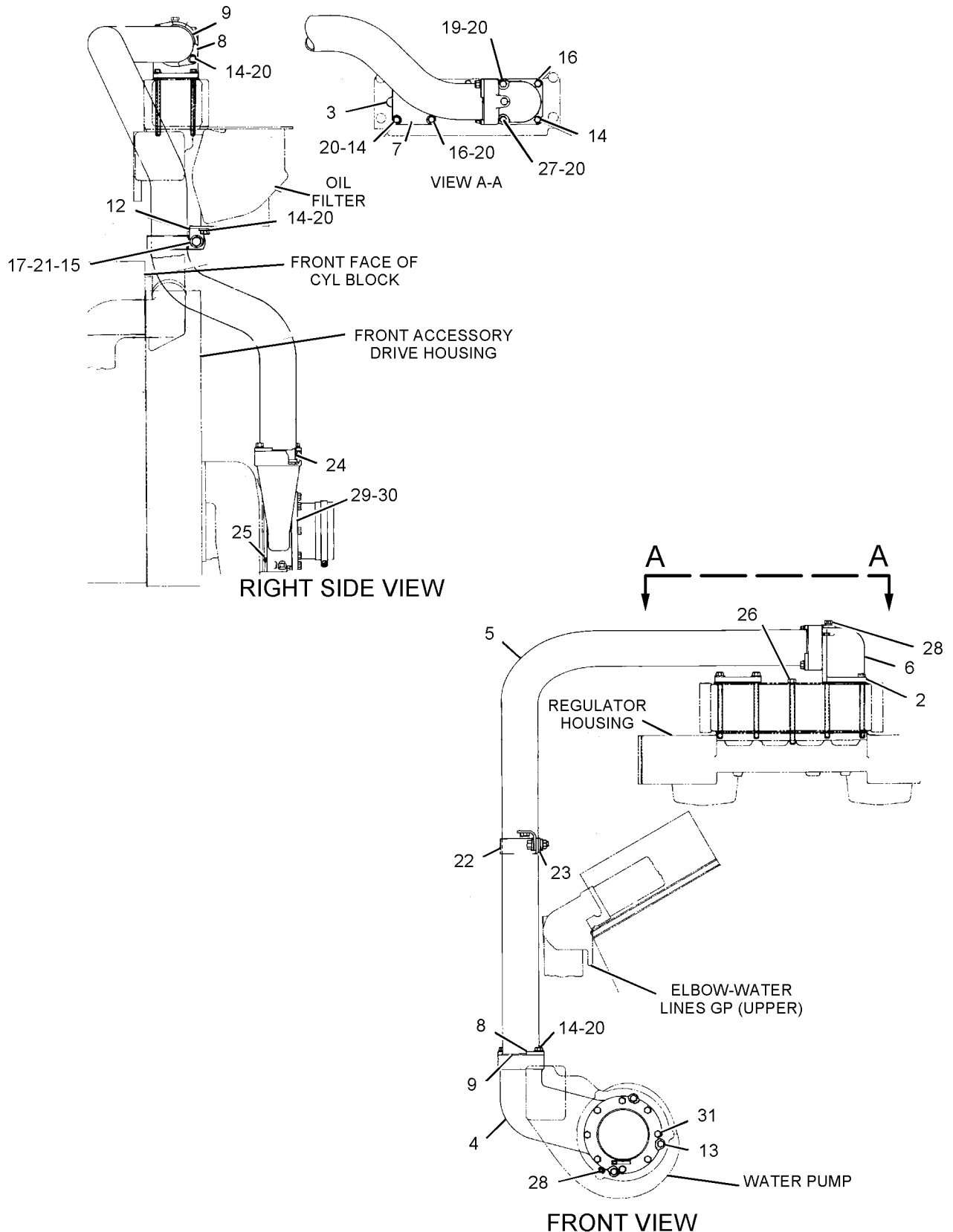
i02065192

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	2	1	2N-0931	1	GASKET						
	3	1	4W-3100	1	GASKET						
	4	1	7C-3043	1	ELBOW						
	5	1	7E-9075	1	TUBE						
	6	1	7E-9584	1	ELBOW						
	7	1	7N-4928	1	COVER						
	8	1	8N-3639	4	RETAINER						
	9	1	8N-3640	2	RING-RETAINING						
	12	1	110-4341	1	BRACKET						
	13	1	0L-1143	3	BOLT (3/8-16X2.5-IN)						
	14	1	0S-1594	8	BOLT (3/8-16X1-IN)						
	15	1	0S-1595	1	BOLT (1/2-13X1.25-IN)						
	16	1	1D-4706	3	BOLT (3/8-16X6-IN)						
	17	1	1F-7958	1	NUT-FULL (1/2-13-THD)						
	19	1	5B-2638	1	BOLT (3/8-16X5.25-IN)						
	20	1	5M-2894	11	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	21	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
	22	1	6V-4356	1	CLIP (SLOT)						
	23	1	6V-4357	1	CLIP (TAB)						
	24	1	6V-5066	2	SEAL-O-RING						
	25	1	6V-6809	1	SEAL-O-RING						
	26	1	7F-3425	1	BOLT (3/8-16X5.75-IN)						
	27	1	7L-7524	1	BOLT (3/8-16X10.25-IN)						
	28	1	8T-6765	2	PLUG-PIPE						
	29	1	1S-5772	1	GASKET						
	30	1	8N-6432	1	ADAPTER						
	31	1	0S-1594	8	BOLT (3/8-16X1-IN)						

COOLING SYSTEM

9Y-9185 LINES GP -WATER (contd.)

i02065192



GRAPHIC #1

<END>

g01063053

COOLING SYSTEM

121 - 7534 LINES GP-WATER-UPPER

S/N: ZBA1-UP

SMCS-1355, 1380, 1393

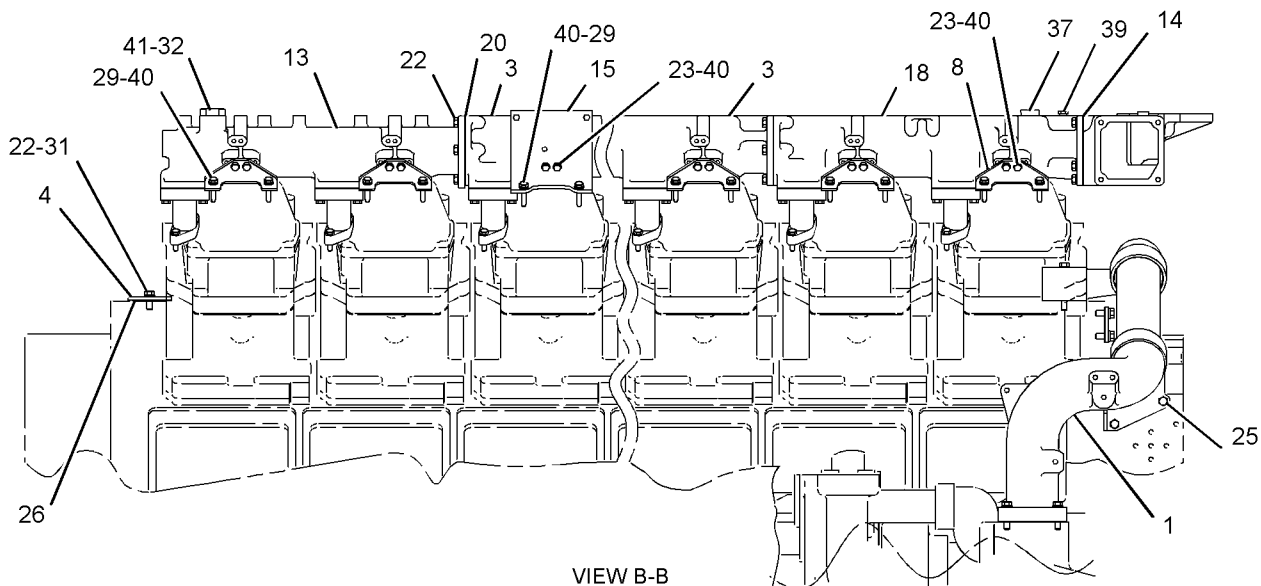
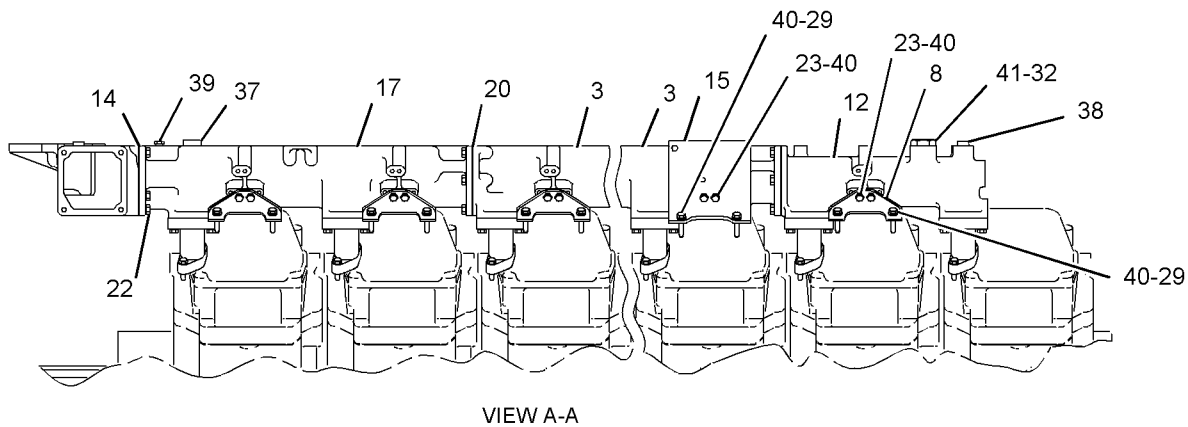
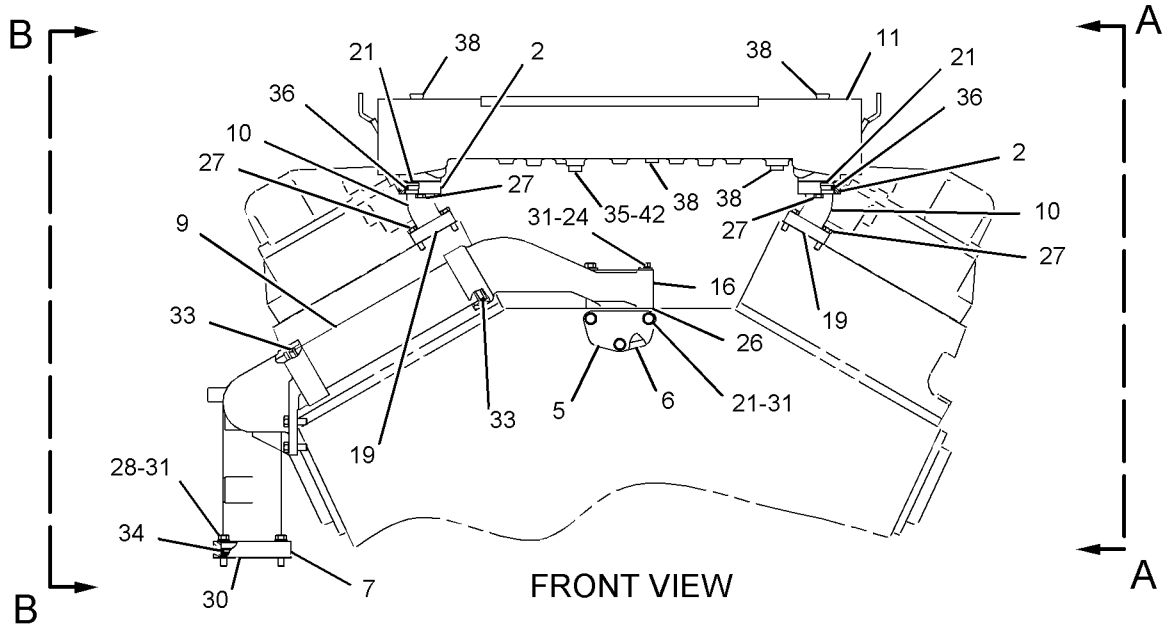
i02834071

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1N-4087	1	ELBOW						
	2	1	2W-3146	16	FLANGE						
	3	1	4P-3897	4	MANIFOLD (INTERMEDIATE)						
	4	1	6H-6698	1	COVER						
	5	1	7N-3297	1	COVER						
	6	1	7N-3368	1	GASKET						
	7	1	8N-0386	1	FLANGE						
	8	1	8N-1268	13	BRACKET						
	9	1	8N-1989	1	TUBE						
	10	1	8N-7639	16	ELBOW						
	11	1	9Y-4090	1	HOUSING-REGULATOR						
	12	1	111-8276	1	MANIFOLD (REAR, LH)						
	13	1	111-8277	1	MANIFOLD (REAR, RH)						
	14	1	122-8856	2	GASKET						
	15	1	136-6216	2	BRACKET						
	16	1	141-9285	1	ELBOW						
	17	1	154-1616	1	MANIFOLD (FRONT, LH)						
	18	1	154-1617	1	MANIFOLD (FRONT, RH)						
	19	1	179-2960	16	SEAL-INTEGRAL						
	20	1	198-6067	6	SEAL-INTEGRAL						
	21	1	204-9598	16	SEAL-INTEGRAL						
	22	1	0S-1594	37	BOLT (3/8-16X1-IN)						
	23	1	0S-1618	30	BOLT (5/16-18X1-IN)						
	24	1	0S-1619	2	BOLT (3/8-16X3-IN)						
	25	1	1A-2029	2	BOLT (3/8-16X1.125-IN)						
	26	1	230-1072	2	GASKET						
	27	1	1B-7182	64	BOLT (5/16-18X1.25-IN)						
	28	1	2A-4639	4	BOLT (3/8-16X1.625-IN)						
	29	1	2B-2695	30	BOLT (5/16-18X0.875-IN)						
	30	1	4N-1320	1	GASKET						
	31	1	5M-2894	11	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	32	1	5P-7701	2	SEAL-O-RING						
	33	1	6V-1454	2	SEAL-O-RING						
	34	1	6V-5066	1	SEAL-O-RING						
	35	1	6V-9027	1	SEAL-O-RING						
	36	1	6V-9769	16	SEAL-O-RING						
	37	1	8T-6761	2	PLUG-PIPE						
	38	1	8T-6762	5	PLUG-PIPE						
	39	1	8T-6765	2	PLUG-PIPE						
	40	1	9M-1974	60	WASHER-HARD (8.8X16X2-MM THK)						
	41	1	9S-4181	2	PLUG-O-RING						
	42	1	9S-4182	1	PLUG-O-RING						

COOLING SYSTEM

121-7534 LINES GP-WATER (contd.)

i02834071



GRAPHIC #1

<END>

g01058560

COOLING SYSTEM

121-7727 LINES GP-WATER-TURBOCHARGER

S/N: ZBA1-UP

SMCS-1355, 1380, 1393

i02834103

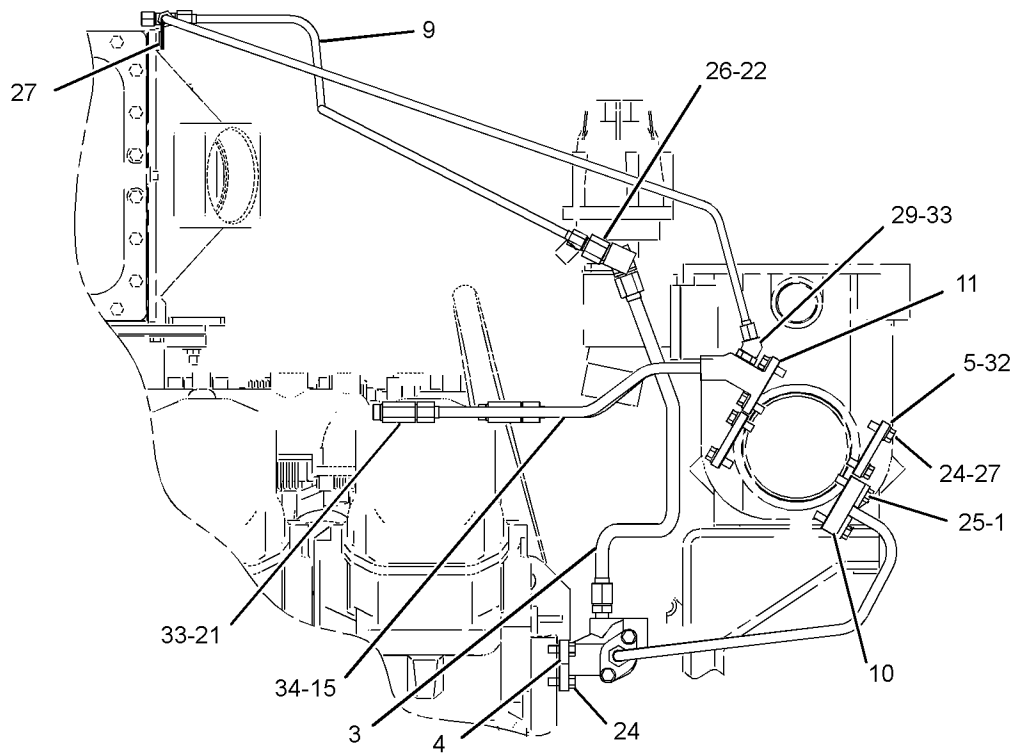
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					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2M-3881	4	LUG						
	2	2	6S-2231	1	CROSS-FLARED						
	3	1	7C-3917	1	TUBE AS						
	4	1	7N-3368	1	GASKET						
	5	1	7N-7878	4	PLATE-COVER						
	6	2	8S-4950	1	CAP						
	7	1	116-2392	1	TUBE AS						
	8	1	127-3464	2	ADAPTER						
	9	1	140-9411	1	TUBE AS						
	10	1	180-5044	2	COVER						
	11	1	180-5561	2	JUNCTION BLOCK						
	12	1	180-6172	1	TUBE AS						
	13	1	180-6173	1	TUBE AS						
	14	2	180-6174	1	TUBE AS						
	15	1	180-6175	1	TUBE AS						
	16	1	180-6176	1	TUBE AS						
	17	1	180-6177	1	TUBE AS						
C	18	1	200-8776	1	HOUSING AS						
		1	3S-8313	1	PLUG-CUP						
		1	7E-6761	1	HOUSING						
	19	1	001-7004	2	FITTING-FLARED						
	20	1	006-2325	1	ELBOW-FLARED						
	21	1	030-8110	2	FITTING-O-RING						
	22	1	030-8145	1	REDUCER-FLARED						
	23	1	061-9463	2	CONNECTOR (FLARED)						
	24	1	0S-1594	19	BOLT (3/8-16X1-IN)						
	25	1	2A-4639	4	BOLT (3/8-16X1.625-IN)						
	26	1	5H-0275	1	NUT-FITTING (7/8-14-THD)						
	27	1	5M-2894	18	WASHER-HARD (10.2X18.5X2.5-MM THK)						
C	28	1	250-1496	1	ELBOW (90-DEG)						
	29	1	7D-9984	2	ELBOW						
	30	1	7H-7055	2	CLIP (3/8 HOLE)						
C	31	1	7L-4773	2	SEAL-O-RING						
	32	1	241-3283	8	GASKET						
	33	1	8L-2786	4	SEAL-O-RING						
	34	1,2	247-0708	4	SEAL-O-RING						

C- CHANGE FROM PREVIOUS TYPE

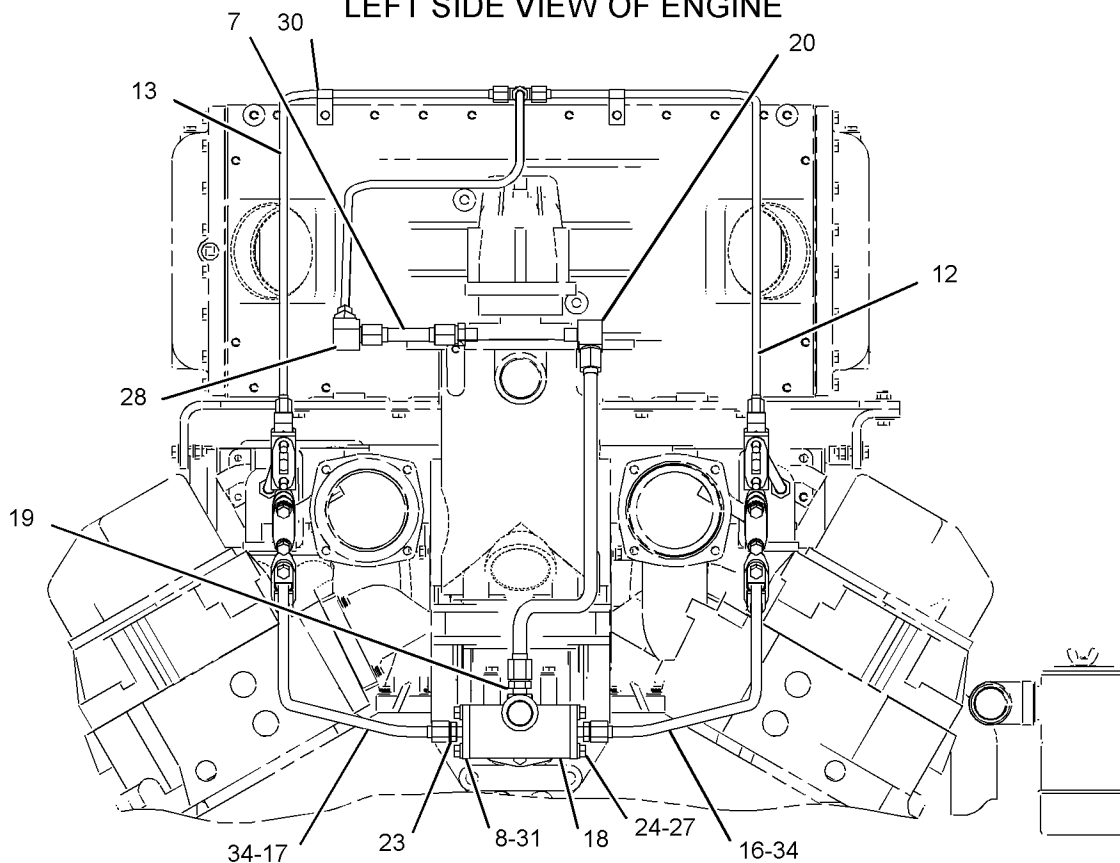
COOLING SYSTEM

121-7727 LINES GP-WATER (contd.)

i02834103



LEFT SIDE VIEW OF ENGINE



REAR VIEW OF ENGINE

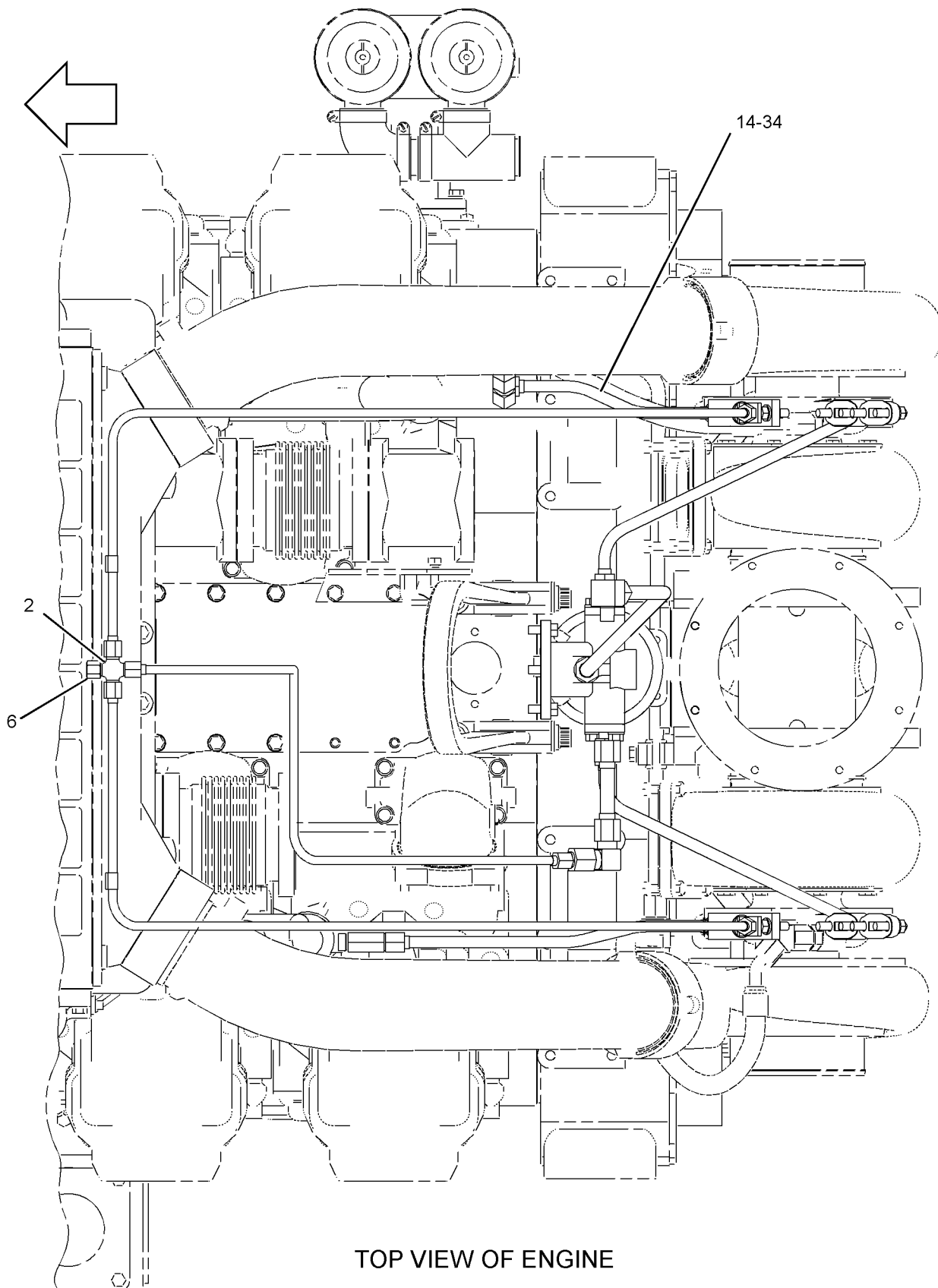
GRAPHIC #1

g01383114

COOLING SYSTEM

121-7727 LINES GP-WATER (contd.)

i02834103



TOP VIEW OF ENGINE

GRAPHIC #2

<END>

g01383128

COOLING SYSTEM

128-7361 LINES GP-WATER-UPPER

S/N: ZBA1-UP

PART OF 129-8218 TANK GP-EXPANSION
AN ATTACHMENT

SMCS-1355, 1380, 1393

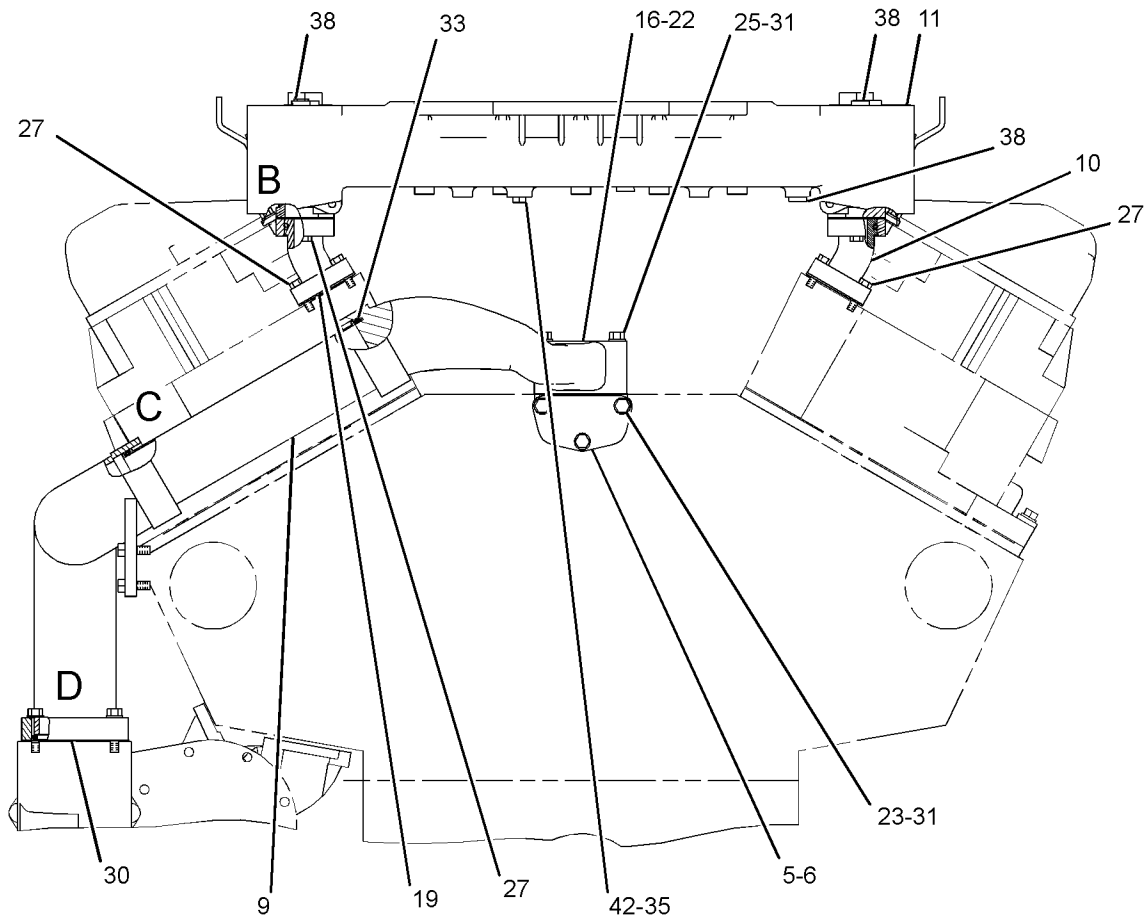
i02834110

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	2	1N-4087	1	ELBOW						
	2	1	2W-3146	16	FLANGE						
	3	2	4P-3897	4	MANIFOLD (INTERMEDIATE)						
	4	2	6H-6698	1	COVER						
	5	1	7N-3297	1	COVER						
	6	1	7N-3368	1	GASKET						
	7	1	8N-0386	1	FLANGE						
	8	2	8N-1268	13	BRACKET						
	9	1	8N-1989	1	TUBE						
	10	1	8N-7639	16	ELBOW						
	11	1	8N-9624	1	HOUSING-REGULATOR						
	12	2	111-8276	1	MANIFOLD (REAR, LH)						
	13	2	111-8277	1	MANIFOLD (REAR, RH)						
	14	2	122-8856	2	GASKET						
	15	2	136-6216	2	BRACKET						
	16	1	141-9285	1	ELBOW						
	17	2	154-1616	1	MANIFOLD (FRONT, LH)						
	18	2	154-1617	1	MANIFOLD (FRONT, RH)						
	19	1	179-2960	16	SEAL-INTEGRAL						
	20	2	198-6067	6	SEAL-INTEGRAL						
	21	1	204-9598	16	SEAL-INTEGRAL						
	22	1	230-1072	2	GASKET						
	23	1,2	0S-1594	37	BOLT (3/8-16X1-IN)						
	24	2	0S-1618	30	BOLT (5/16-18X1-IN)						
	25	1	0S-1619	2	BOLT (3/8-16X3-IN)						
	26	2	1A-2029	2	BOLT (3/8-16X1.125-IN)						
	27	1	1B-7182	64	BOLT (5/16-18X1.25-IN)						
	28	1	2A-4639	4	BOLT (3/8-16X1.625-IN)						
	29	2	2B-2695	30	BOLT (5/16-18X0.875-IN)						
	30	1	4N-1320	1	GASKET						
	31	1,2	5M-2894	11	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	32	2	5P-7701	2	SEAL-O-RING						
	33	1	6V-1454	2	SEAL-O-RING						
	34	1	6V-5066	1	SEAL-O-RING						
	35	1	6V-9027	1	SEAL-O-RING						
	36	1	6V-9769	16	SEAL-O-RING						
	37	2	8T-6761	2	PLUG-PIPE						
	38	1,2	8T-6762	5	PLUG-PIPE						
	39	2	8T-6765	2	PLUG-PIPE						
	40	2	9M-1974	60	WASHER-HARD (8.8X16X2-MM THK)						
	41	2	9S-4181	2	PLUG-O-RING						
	42	1	9S-4182	1	PLUG-O-RING						

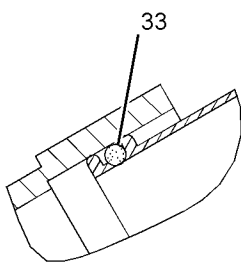
COOLING SYSTEM

128-7361 LINES GP-WATER (contd.)

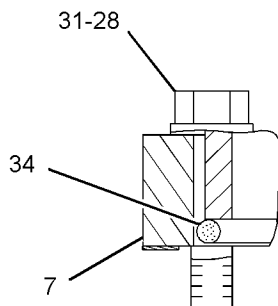
i02834110



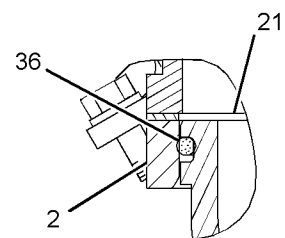
FRONT VIEW OF ENGINE



VIEW OF AREA C



VIEW OF AREA D



VIEW OF AREA B

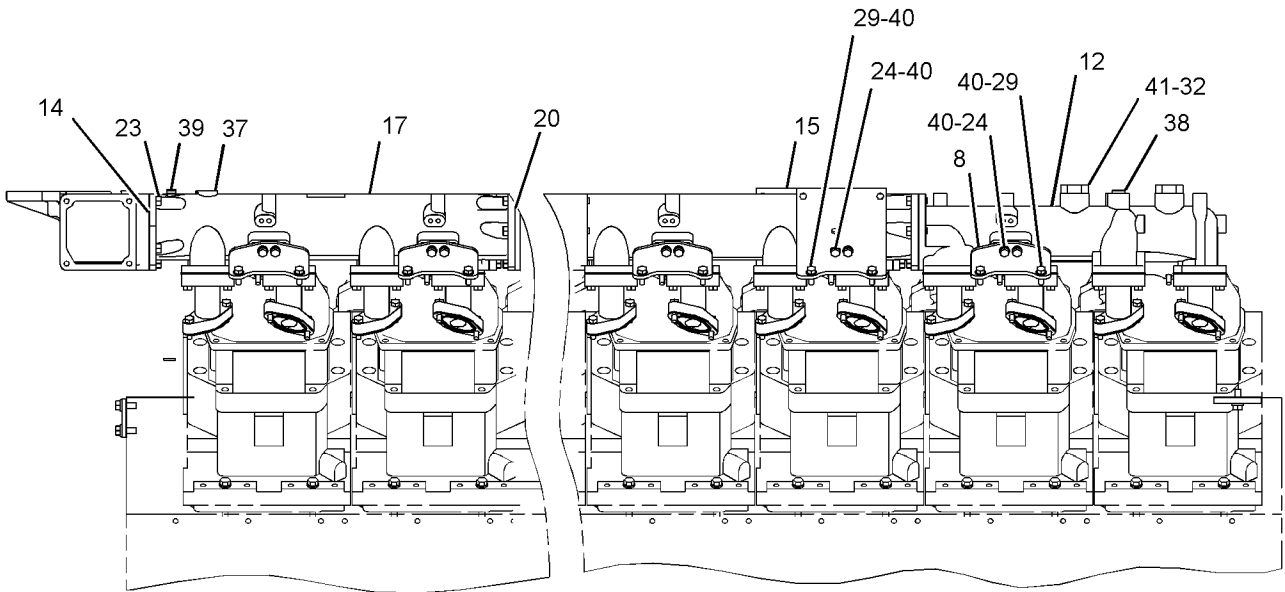
GRAPHIC #1

g01254459

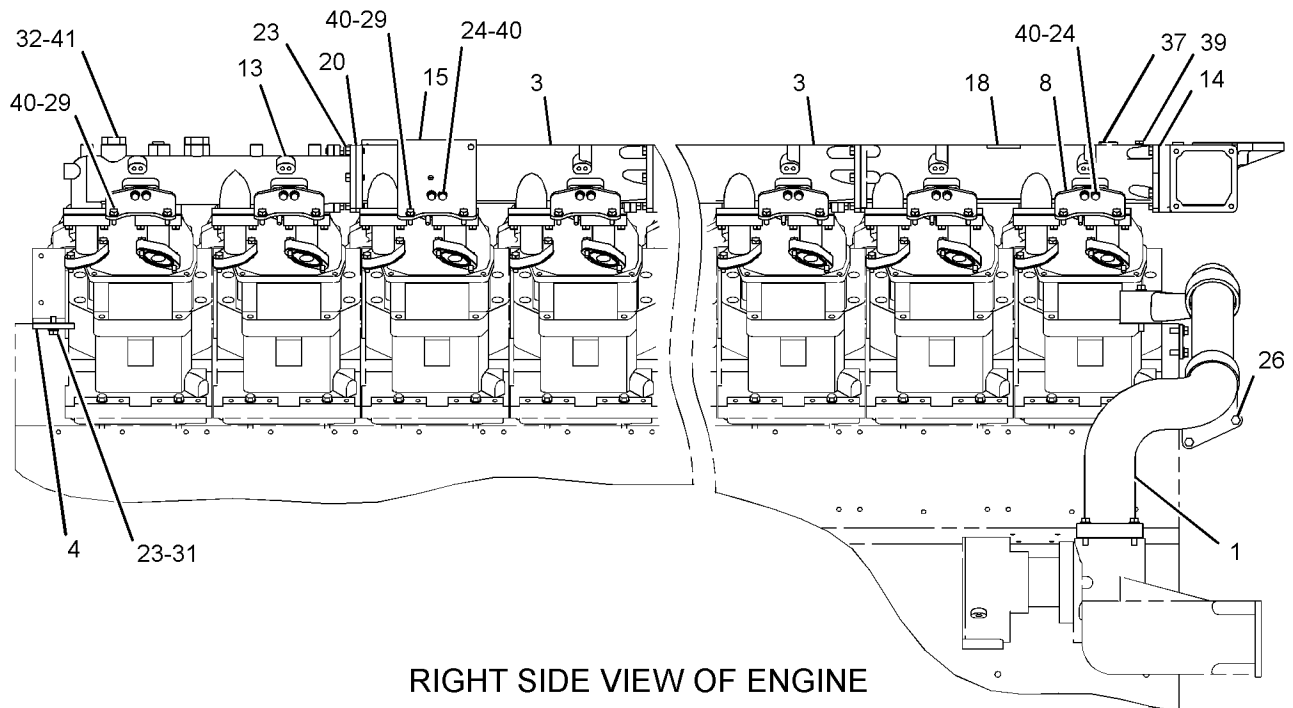
COOLING SYSTEM

128-7361 LINES GP-WATER (contd.)

i02834110



LEFT SIDE VIEW OF ENGINE



RIGHT SIDE VIEW OF ENGINE

GRAPHIC #2

<END>

g01254460

COOLING SYSTEM

129-8217 LINES GP-WATER-UPPER

S/N: ZBA1-UP

PART OF 129-8220 CONVERSION AR
AN ATTACHMENT

SMCS-1355, 1380, 1393

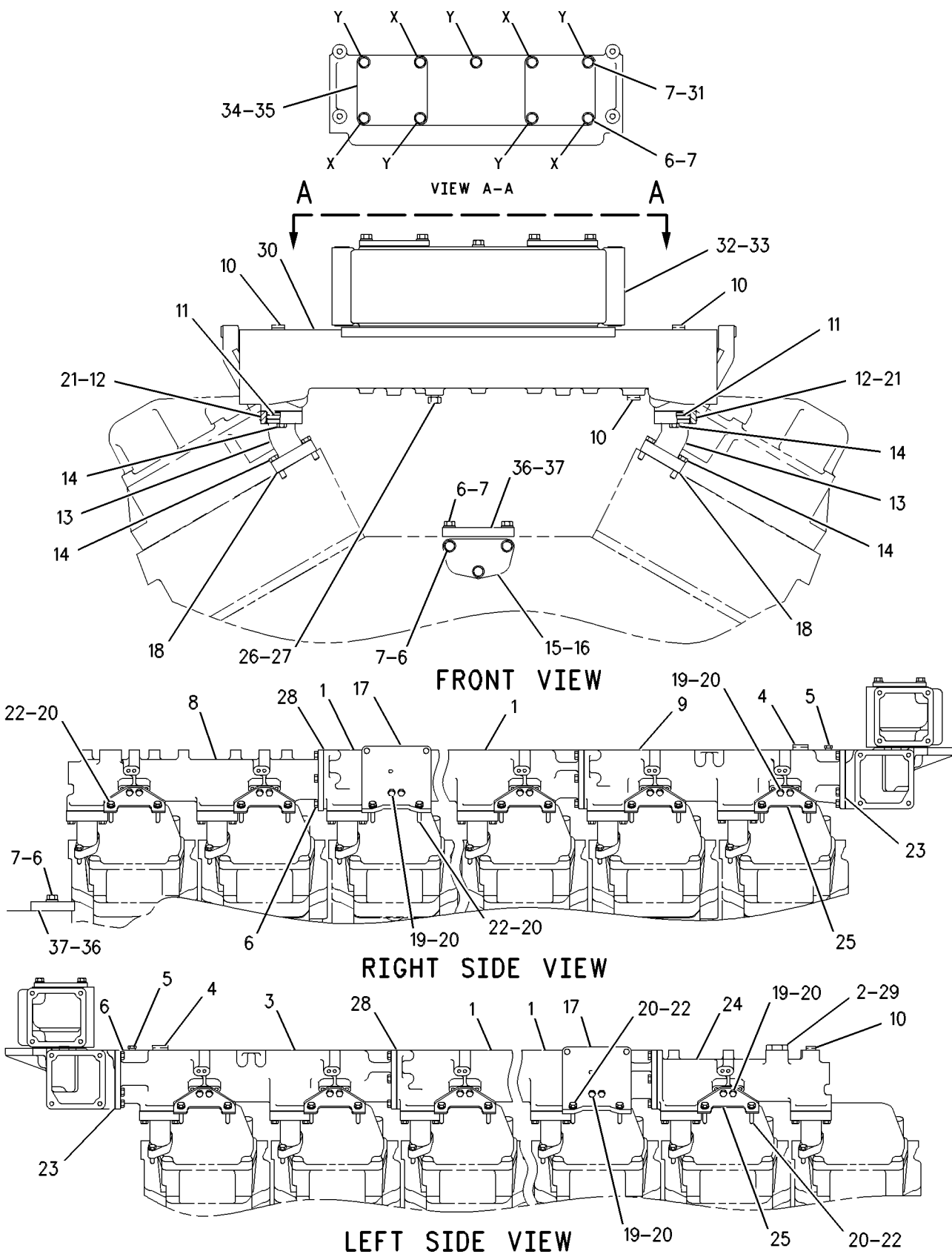
i02834112

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	4P-3897	4	MANIFOLD (INTERMEDIATE)	
	2	1	9S-4181	1	PLUG-O-RING	
	3	1	154-1616	1	MANIFOLD (FRONT, LH)	
	4	1	8T-6761	2	PLUG-PIPE	
	5	1	8T-6765	2	PLUG-PIPE	
	6	1	0S-1594	43	BOLT (3/8-16X1-IN)	
	7	1	5M-2894	16	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	8	1	111-8277	1	MANIFOLD (REAR, RH)	
	9	1	154-1617	1	MANIFOLD (FRONT, RH)	
	10	1	8T-6762	4	PLUG-PIPE	
	11	1	6V-9769	16	SEAL-O-RING	
	12	1	2W-3146	16	FLANGE	
	13	1	8N-7639	16	ELBOW	
	14	1	1B-7182	64	BOLT (5/16-18X1.25-IN)	
	15	1	7N-3297	1	COVER	
	16	1	7N-3368	1	GASKET	
	17	1	136-6216	2	BRACKET	
	18	1	179-2960	16	SEAL-INTEGRAL	
	19	1	0S-1618	30	BOLT (5/16-18X1-IN)	
	20	1	9M-1974	60	WASHER-HARD (8.8X16X2-MM THK)	
	21	1	204-9598	16	SEAL-INTEGRAL	
	22	1	2B-2695	30	BOLT (5/16-18X0.875-IN)	
	23	1	122-8856	2	GASKET	
	24	1	111-8276	1	MANIFOLD (REAR, LH)	
	25	1	8N-1268	13	BRACKET	
	26	1	9S-4182	1	PLUG-O-RING	
	27	1	6V-9027	1	SEAL-O-RING	
	28	1	198-6067	6	SEAL-INTEGRAL	
	29	1	5P-7701	1	SEAL-O-RING	
	30	1	9Y-4090	1	HOUSING-REGULATOR	
	31	1	1D-4706	5	BOLT (3/8-16X6-IN)	
	32	1	9Y-8539	1	HOUSING-REGULATOR	
	33	1	153-1810	1	SEAL-INTEGRAL	
	34	1	2N-0931	2	GASKET	
	35	1	7N-4928	2	COVER	
	36	1	6H-6698	2	COVER	
	37	1	230-1072	2	GASKET	

COOLING SYSTEM

129-8217 LINES GP-WATER (contd.)

i02834112



GRAPHIC #1

<END>

g00597842

COOLING SYSTEM

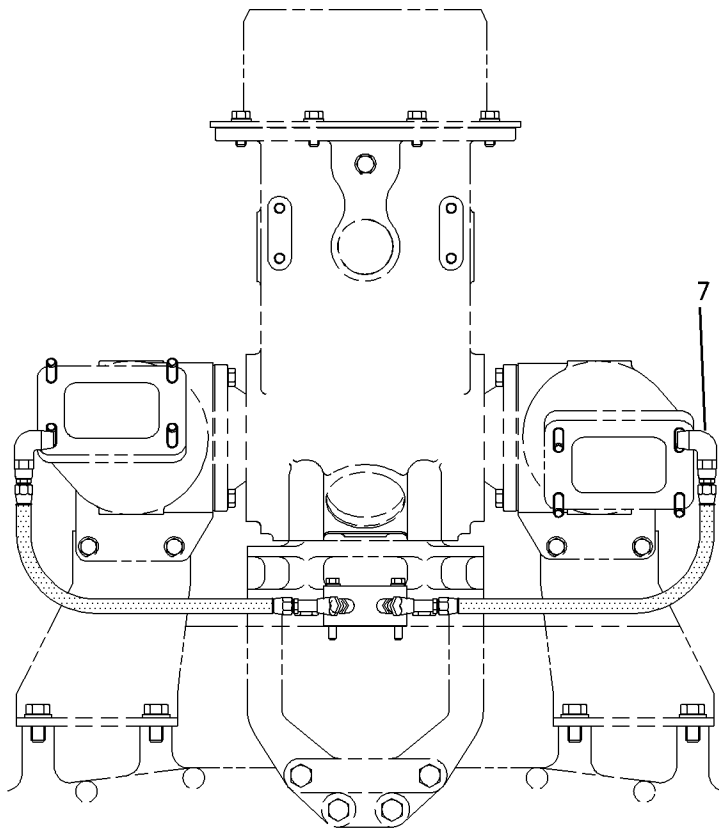
133-3689 LINES GP-WATER-MANIFOLD

S/N: ZBA1-UP
AN ATTACHMENT

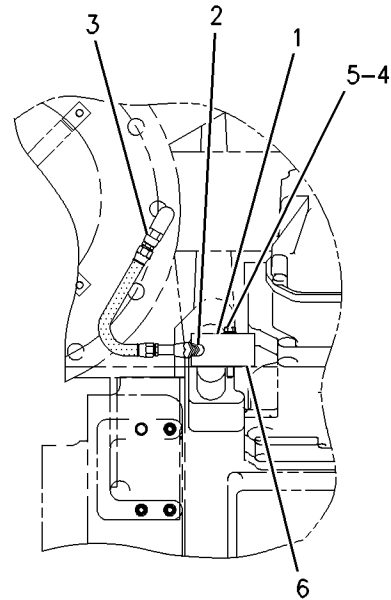
SMCS-1355, 1380, 1393

i02220764

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	133-1775	1	HOUSING						
	2	1	9M-6522	2	CONNECTOR						
	3	1	184-3229	2	HOSE AS						
	4	1	0T-0573	2	BOLT (3/8-16X2.75-IN)						
	5	1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	6	1	009-2062	1	SEAL-O-RING						
	7	1	032-1269	2	ELBOW						



REAR VIEW



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g00749295

COOLING SYSTEM

167-6848 LINES GP-WATER-AFTERCOOLER, JACKET WATER S/N: ZBA1-471

SMCS-1355, 1380, 1393

i02834125

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	230-1072	2	GASKET						
	2	3	1B-4971	3	SPACER (0.406X1X1-IN THK)						
	3	2	2W-3146	16	FLANGE						
	4	3	3P-6061	1	GASKET						
	5	3	4B-8407	2	GASKET-COPPER						
	6	2	4P-3897	4	MANIFOLD (INTERMEDIATE)						
	7	3	4W-0530	4	RING-RETAINING						
	8	3	4W-0531	8	RETAINER						
	9	1	6H-6698	2	COVER						
	10	2,3	6V-1581	8	CLIP (SLOT)						
	11	2,3	6V-1582	8	CLIP (TAB)						
	12	3	6V-4356	1	CLIP (SLOT)						
	13	3	6V-4357	1	CLIP (TAB)						
	14	1	7E-3379	1	TUBE AS						
	15	1	7N-3297	1	COVER						
	16	1	7N-3368	1	GASKET						
	17	3	7N-4932	1	GASKET						
	18	3	7N-4940	1	BRACKET						
	19	3	7N-4944	1	ELBOW						
	20	3	7N-4945	1	GASKET						
	21	2	8N-1268	13	BRACKET						
	22	3	8N-3639	2	RETAINER						
	23	3	8N-3640	1	RING-RETAINING						
	24	2	8N-7639	16	ELBOW						
	25	1	8T-6766	1	PLUG-PIPE						
	26	3	9M-4202	2	PLUG-DRAIN (OIL COOLER)						
C	27	1,3	9S-9635	3	JOINT AS-TUBE						
					(EACH INCLUDES)						
		1,3	9X-7523	2	SEAL						
	28	2	9Y-4090	1	HOUSING-REGULATOR						
	29	3	9Y-6884	1	ELBOW-WATER PUMP						
	30	1	9Y-6885	1	TUBE						
	31	3	9Y-6886	1	BRACKET						
	32	3	9Y-6887	1	ELBOW-OIL COOLER						
	33	1	9Y-6889	1	TUBE						
	34	1	9Y-6890	1	BRACKET						
	35	3	9Y-6891	1	BRACKET						
	36	3	9Y-6892	1	ELBOW-OIL COOLER						
	37	3	9Y-6893	2	GASKET						
	38	3	9Y-6894	1	ADAPTER-OIL COOLER						
	39	3	9Y-6895	1	ADAPTER-OIL COOLER						
	40	3	9Y-8069	1	GASKET						
	41	3	9Y-8263	1	ELBOW						
	42	3	9Y-8264	1	ELBOW (INLET)						
	43	2	111-8276	1	MANIFOLD (REAR, LH)						
	44	2	111-8277	1	MANIFOLD (REAR, RH)						
	45	2	122-8856	2	GASKET						
	46	2	136-6216	2	BRACKET						
	47	2	153-9963	4	RING						
	48	2	154-1616	1	MANIFOLD (FRONT, LH)						
	49	2	154-1617	1	MANIFOLD (FRONT, RH)						
	50	3	157-1435	8	CLAMP						
	51	3	157-1437	4	BRACKET						
	52	1	179-2960	16	SEAL-INTEGRAL						
C	53	3	197-3100	2	TUBE						
	54	2	198-6067	6	SEAL-INTEGRAL						
	55	2	204-9598	16	SEAL-INTEGRAL						

COOLING SYSTEM

167-6848 LINES GP-WATER (contd.)

i02834125

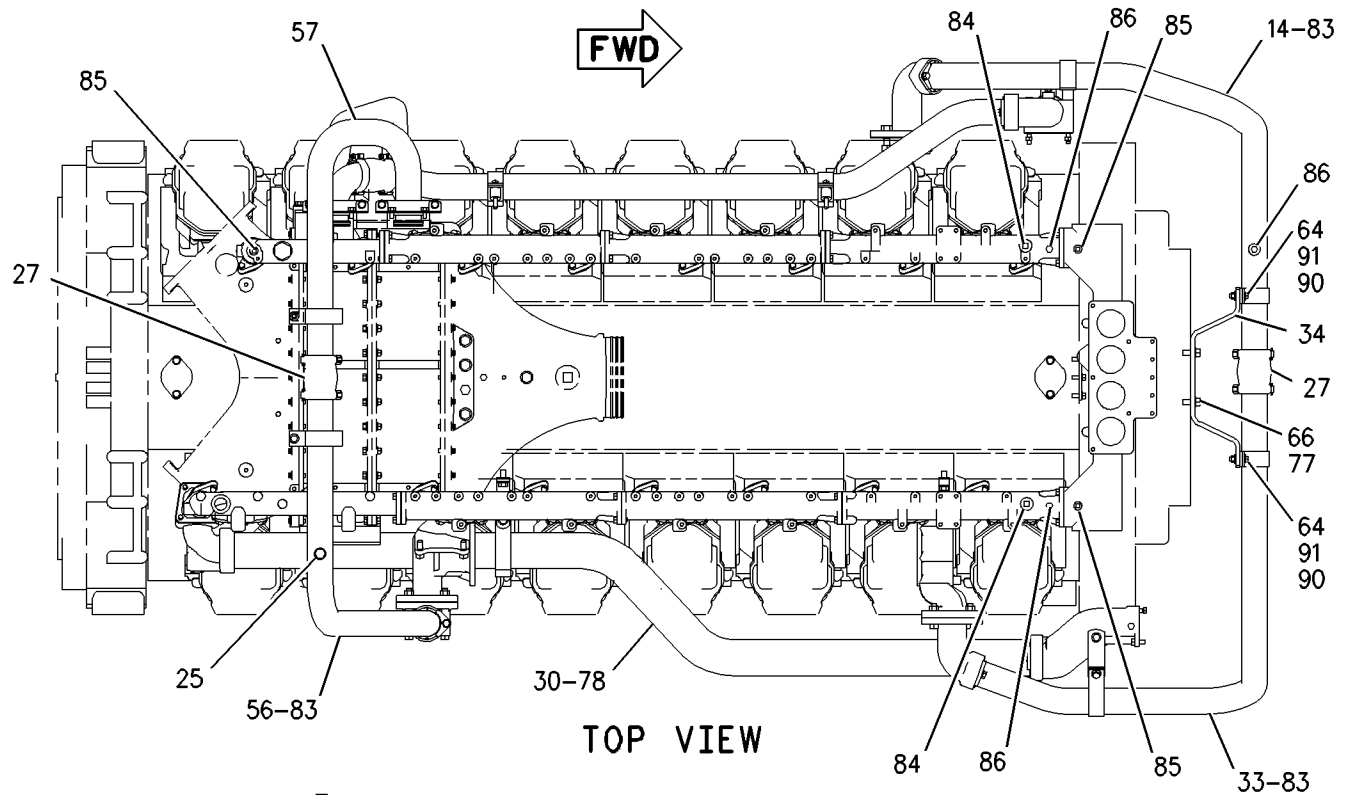
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	56	1	205-7928	1	TUBE AS						
C	57	1	221-7853	1	TUBE						
C	58	2	221-7855	1	TUBE						
	59	3	0L-1143	2	BOLT (3/8-16X2.5-IN)						
	60	3	0S-0509	8	BOLT (3/8-16X0.75-IN)						
	61	3	0S-1571	2	BOLT (3/8-16X1.75-IN)						
	62	3	0S-1585	3	BOLT (1/2-13X1.5-IN)						
	63	3	0S-1588	2	BOLT (3/8-16X1.25-IN)						
	64	1,3	0S-1591	5	BOLT (3/8-16X1.5-IN)						
	65	1,2,3	0S-1594	64	BOLT (3/8-16X1-IN)						
	66	1,3	0S-1595	5	BOLT (1/2-13X1.25-IN)						
	67	2	0S-1618	30	BOLT (5/16-18X1-IN)						
	68	3	0T-0055	1	BOLT (3/8-16X4.25-IN)						
	69	3	0T-0065	2	BOLT (3/8-16X3.5-IN)						
	70	3	1A-1460	6	BOLT (1/2-13X2-IN)						
	71	2	1B-7182	64	BOLT (5/16-18X1.25-IN)						
	72	3	1F-7958	9	NUT-FULL (1/2-13-THD)						
	73	2	2B-2695	30	BOLT (5/16-18X0.875-IN)						
	74	3	4K-0367	4	NUT-FULL (5/8-11-THD)						
	75	3	5F-4899	1	BOLT (3/8-16X5.5-IN)						
	76	1,3	5M-2894	35	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	77	1,3	5P-8245	7	WASHER-HARD (13.5X25.5X3-MM THK)						
	78	1	6V-5066	2	SEAL-O-RING						
	79	1	6V-6609	1	SEAL-O-RING						
	80	2	6V-9027	1	SEAL-O-RING						
	81	2	6V-9769	16	SEAL-O-RING						
	82	3	8S-9089	2	BOLT (1/2-13X4.5-IN)						
	83	1,2	8T-1919	8	SEAL-O-RING						
	84	1,3	8T-6761	3	PLUG-PIPE						
	85	1,2,3	8T-6762	7	PLUG-PIPE						
	86	1,3	8T-6765	6	PLUG-PIPE						
	87	2	9M-1974	60	WASHER-HARD (8.8X16X2-MM THK)						
	88	2	9S-4182	1	PLUG-O-RING						
	89	1	9S-4185	1	PLUG-O-RING						
	90	1,3	9S-8752	15	NUT-FULL (3/8-16-THD)						
	91	1,3	9X-6458	20	WASHER-HARD (10.2X22.5X3-MM THK)						
	92	3	9X-8881	4	BOLT (5/8-11X2.25-IN)						

C- CHANGE FROM PREVIOUS TYPE

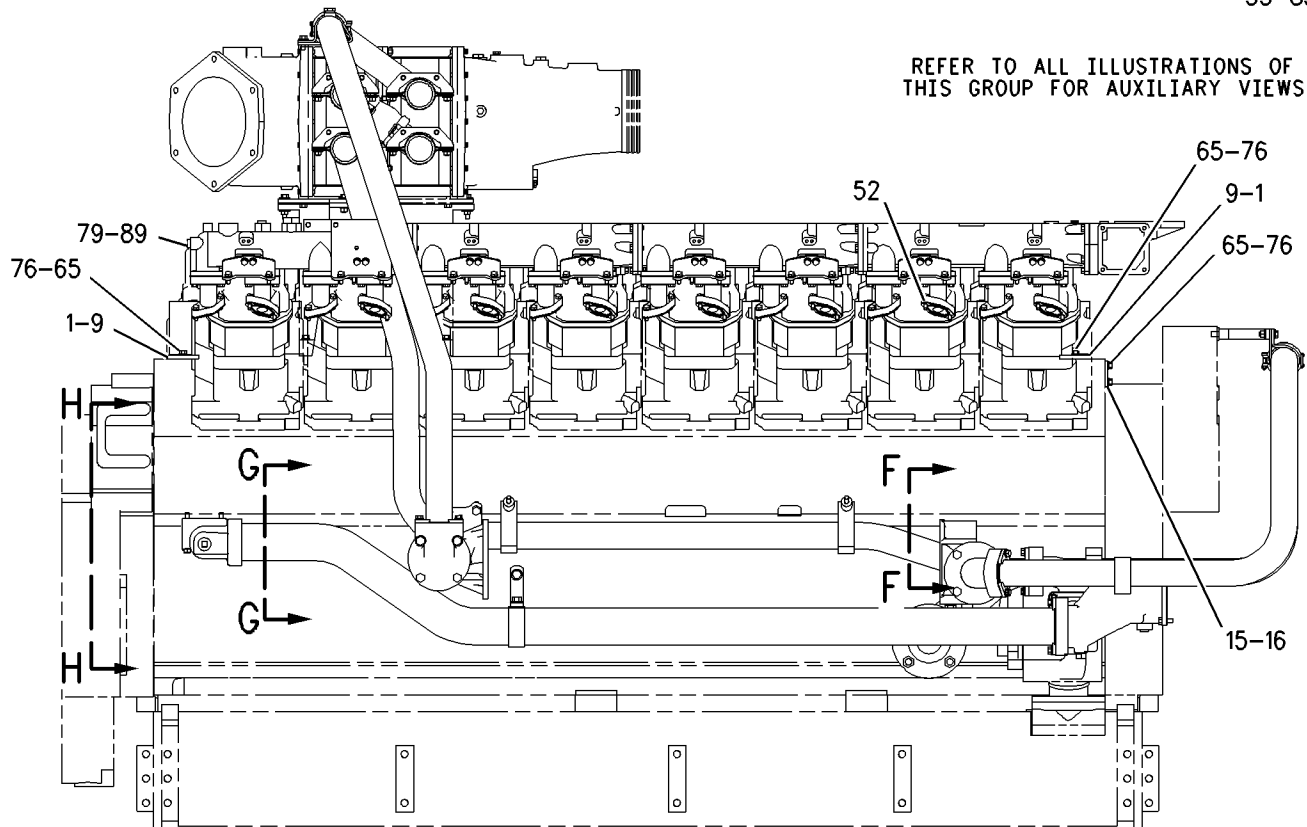
COOLING SYSTEM

167-6848 LINES GP-WATER (contd.)

i02834125



REFER TO ALL ILLUSTRATIONS OF THIS GROUP FOR AUXILIARY VIEWS



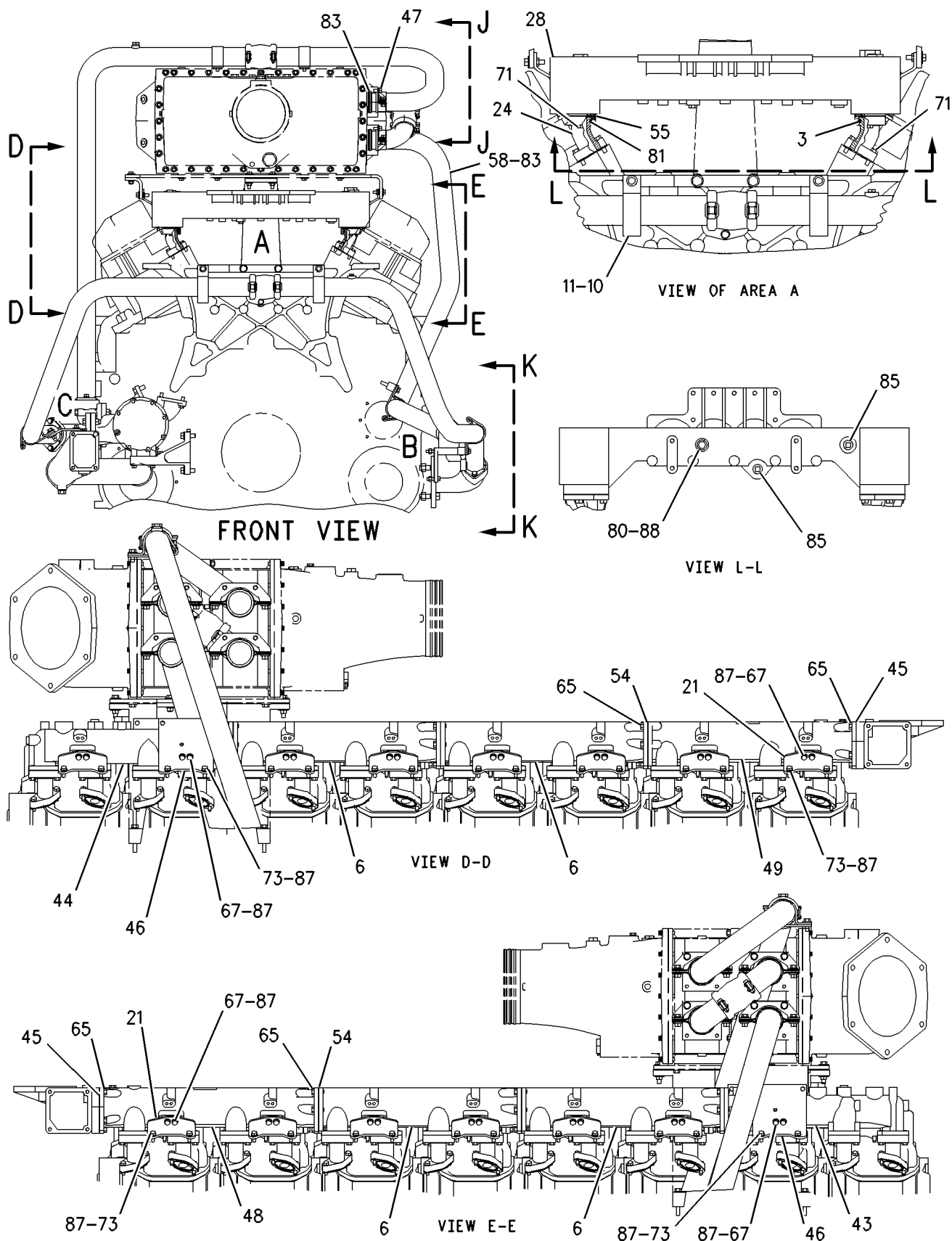
GRAPHIC #1

g00956208

COOLING SYSTEM

167-6848 LINES GP-WATER (contd.)

i02834125



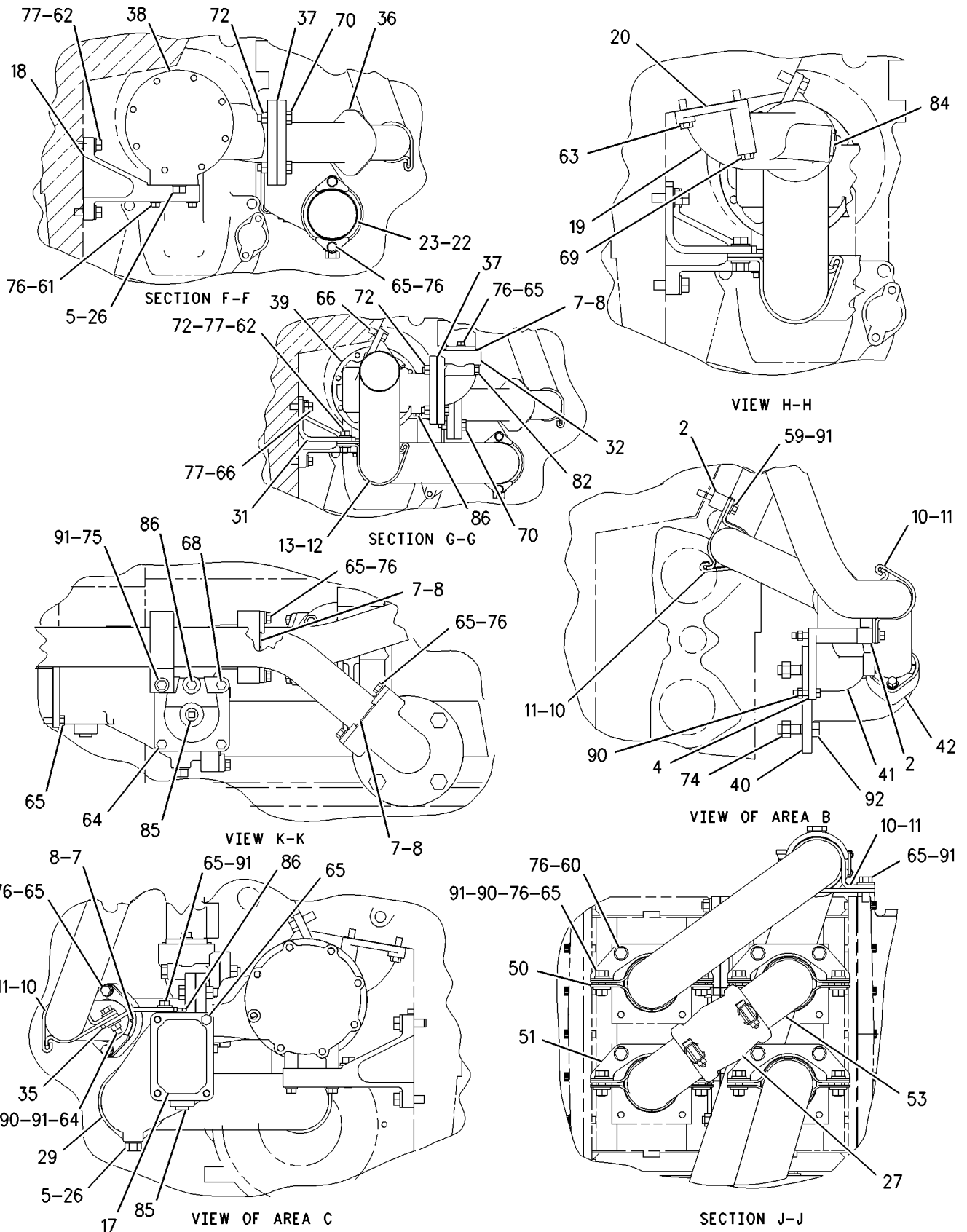
GRAPHIC #2

g00956185

COOLING SYSTEM

167-6848 LINES GP-WATER (contd.)

i02834125



GRAPHIC #3

<END>

g00956186

COOLING SYSTEM

167-9212 LINES GP-WATER-AFTERCOOLER, JACKET WATER

S/N: ZBA1-288

SMCS-1355, 1380, 1393

i02379304

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	230-1072	2	GASKET						
	2	3	1B-4971	2	SPACER (0.406X1X1-IN THK)						
	3	2	2W-3146	16	FLANGE						
	4	3	3P-6061	1	GASKET						
	5	3	4B-8407	2	GASKET-COPPER						
	6	4	4P-3897	4	MANIFOLD (INTERMEDIATE)						
	7	3	4W-0530	4	RING-RETAINING						
	8	3	4W-0531	8	RETAINER						
	9	1	6H-6698	2	COVER						
	10	2,3,4	6V-1581	7	CLIP (SLOT)						
	11	2,3,4	6V-1582	7	CLIP (TAB)						
	12	3	6V-4356	1	CLIP (SLOT)						
	13	3	6V-4357	1	CLIP (TAB)						
	14	2	7E-3379	1	TUBE AS						
	15	1	7N-3368	1	GASKET						
	16	3	7N-4932	1	GASKET						
	17	3	7N-4940	1	BRACKET						
	18	4	7N-4944	1	ELBOW						
	19	4	7N-4945	1	GASKET						
	20	4	8N-1268	13	BRACKET						
	21	3	8N-3639	2	RETAINER						
	22	3	8N-3640	1	RING-RETAINING						
	23	2	8N-7639	16	ELBOW						
	24	3	9M-4202	2	PLUG-DRAIN						
C	25	2,3	9S-9635	3	JOINT AS-TUBE						
					(EACH INCLUDES)						
		2,3	9X-7523	2	SEAL						
	26	2	9Y-4090	1	HOUSING-REGULATOR						
	27	3	9Y-6884	1	ELBOW-WATER PUMP						
	28	2	9Y-6885	1	TUBE						
	29	3	9Y-6886	1	BRACKET						
	30	3	9Y-6887	1	ELBOW-OIL COOLER						
	31	2	9Y-6889	1	TUBE						
	32	2	9Y-6890	1	BRACKET						
	33	3	9Y-6891	1	BRACKET						
	34	3	9Y-6892	1	ELBOW-OIL COOLER						
	35	3	9Y-6893	2	GASKET						
	36	3	9Y-6894	1	ADAPTER-OIL COOLER						
	37	3	9Y-6895	1	ADAPTER-OIL COOLER						
C	38	2	9Y-6897	2	BRACKET						
	39	1	9Y-7763	1	SUPPORT						
	41	3	9Y-8263	1	ELBOW						
	43	1	111-8276	1	MANIFOLD (REAR, LH)						
	44	4	111-8277	1	MANIFOLD (REAR, RH)						
	45	4	122-8856	2	GASKET						
	46	2	204-9598	16	SEAL-INTEGRAL						
	47	4	136-6216	2	BRACKET						
	48	3	153-9963	4	RING						
	49	1	154-1616	1	MANIFOLD (FRONT, LH)						
	50	4	154-1617	1	MANIFOLD (FRONT, RH)						
	51	3	157-1435	8	CLAMP						
	52	3	157-1437	8	BRACKET						
	53	4	179-2960	16	SEAL-INTEGRAL						
C	54	2	197-3099	1	TUBE						
C	55	3	197-3100	2	TUBE						
	56	4	198-6067	6	SEAL-INTEGRAL						
C	57	2	202-3170	1	TUBE						

COOLING SYSTEM

167-9212 LINES GP-WATER (contd.)

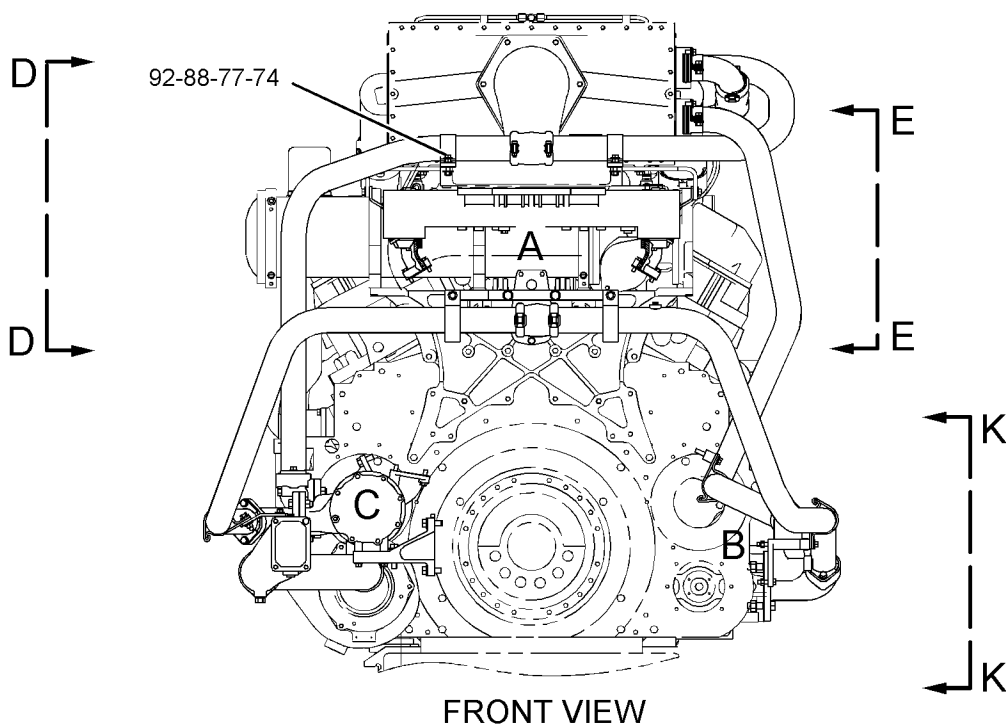
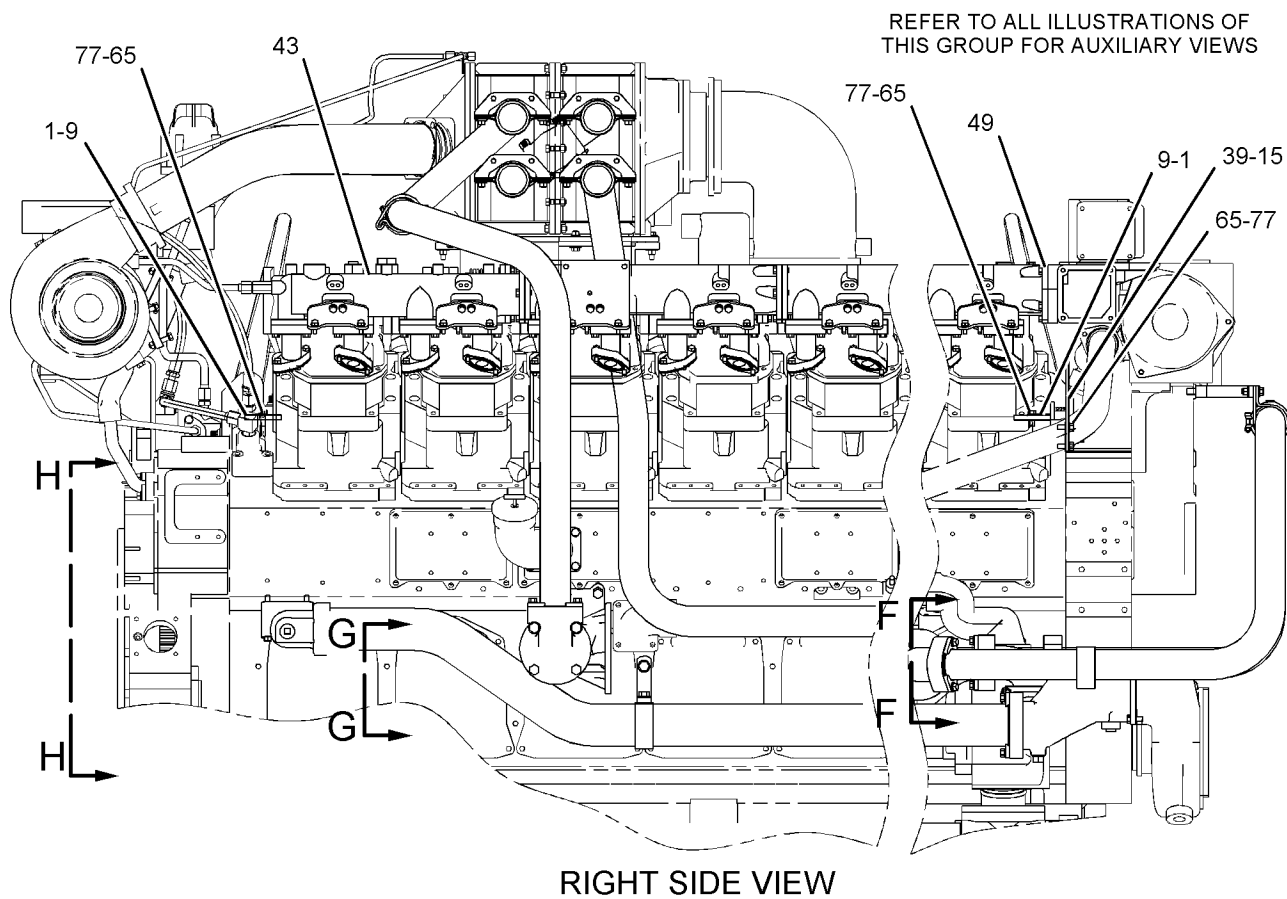
i02379304

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
C	58	2	202-9946	1	TUBE	
	59	3	0L-1143	1	BOLT (3/8-16X2.5-IN)	
	60	3	0S-0509	16	BOLT (3/8-16X0.75-IN)	
C	61	3	0S-1571	2	BOLT (3/8-16X1.75-IN)	
	62	3	0S-1585	2	BOLT (1/2-13X1.5-IN)	
	63	4	0S-1588	2	BOLT (3/8-16X1.25-IN)	
C	64	2,3	0S-1591	5	BOLT (3/8-16X1.5-IN)	
	65	1,3,4	0S-1594	64	BOLT (3/8-16X1-IN)	
	66	2,3	0S-1595	5	BOLT (1/2-13X1.25-IN)	
C	67	4	0S-1618	30	BOLT (5/16-18X1-IN)	
	68	3	0T-0055	1	BOLT (3/8-16X4.25-IN)	
	69	4	0T-0065	2	BOLT (3/8-16X3.5-IN)	
C	70	3	1A-1460	7	BOLT (1/2-13X2-IN)	
	71	2	1B-7182	64	BOLT (5/16-18X1.25-IN)	
	72	3,4	1F-7958	9	NUT-FULL (1/2-13-THD)	
C	73	4	2B-2695	30	BOLT (5/16-18X0.875-IN)	
	74	1	3B-1915	2	BOLT (3/8-16X1.375-IN)	
	76	3	5F-4899	1	BOLT (3/8-16X5.5-IN)	
C	77	1,3	5M-2894	45	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	78	2	5P-7701	2	SEAL-O-RING	
	79	2,3	5P-8245	7	WASHER-HARD (13.5X25.5X3-MM THK)	
C	80	2	6V-5066	2	SEAL-O-RING	
	81	4	6V-9027	1	SEAL-O-RING	
	82	2	6V-9769	16	SEAL-O-RING	
C	83	3	8S-9089	2	BOLT (1/2-13X4.5-IN)	
	84	2,3	8T-1919	8	SEAL-O-RING	
	85	2,4	8T-6761	3	PLUG-PIPE	
C	86	2,3,4	8T-6762	7	PLUG-PIPE	
	87	2,3	8T-6765	6	PLUG-PIPE	
	88	1	9L-9132	2	WASHER (10.2X25.5X2.5-MM THK)	
C	89	4	9M-1974	60	WASHER-HARD (8.8X16X2-MM THK)	
	90	2	9S-4181	2	PLUG-O-RING	
	91	4	9S-4182	1	PLUG-O-RING	
C	92	1,2,3	9S-8752	17	NUT-FULL (3/8-16-THD)	
	93	2,3	9X-6458	19	WASHER-HARD (10.2X22.5X3-MM THK)	
	95	3	1A-5183	1	BOLT (3/8-16X4.75-IN)	
C- CHANGE FROM PREVIOUS TYPE						

COOLING SYSTEM

167-9212 LINES GP-WATER (contd.)

i02379304



GRAPHIC #1

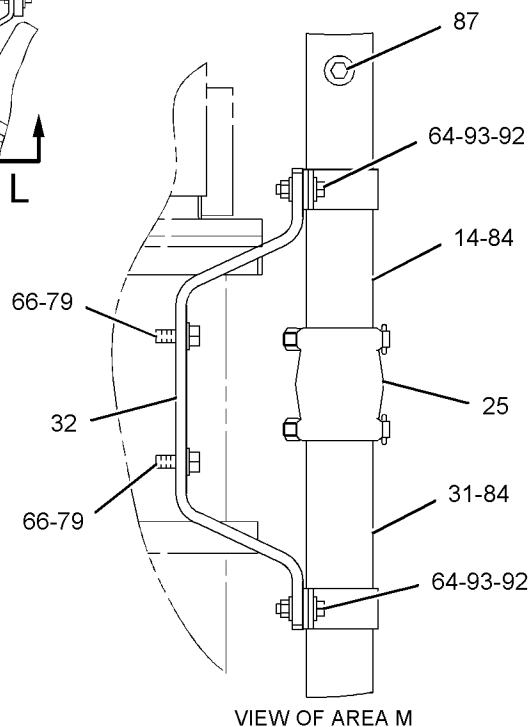
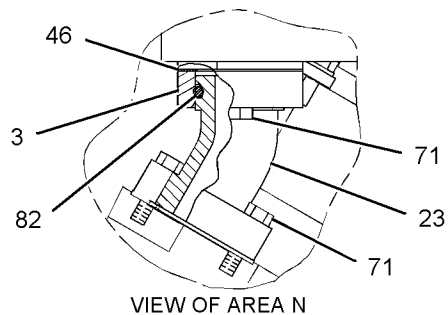
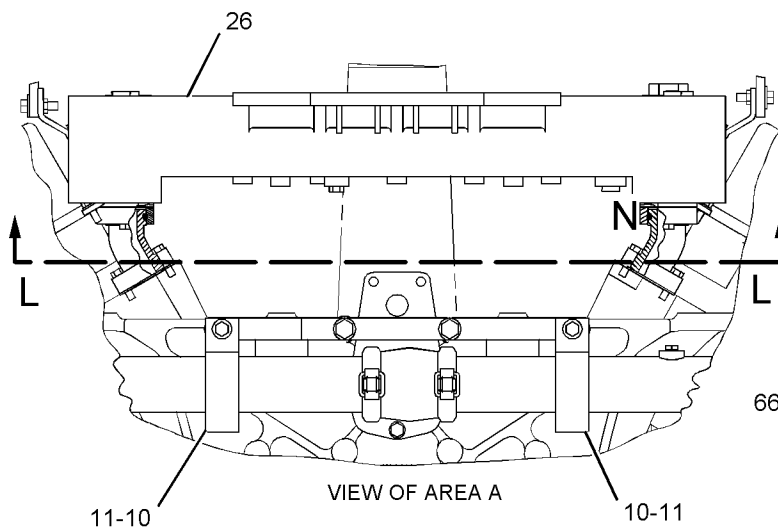
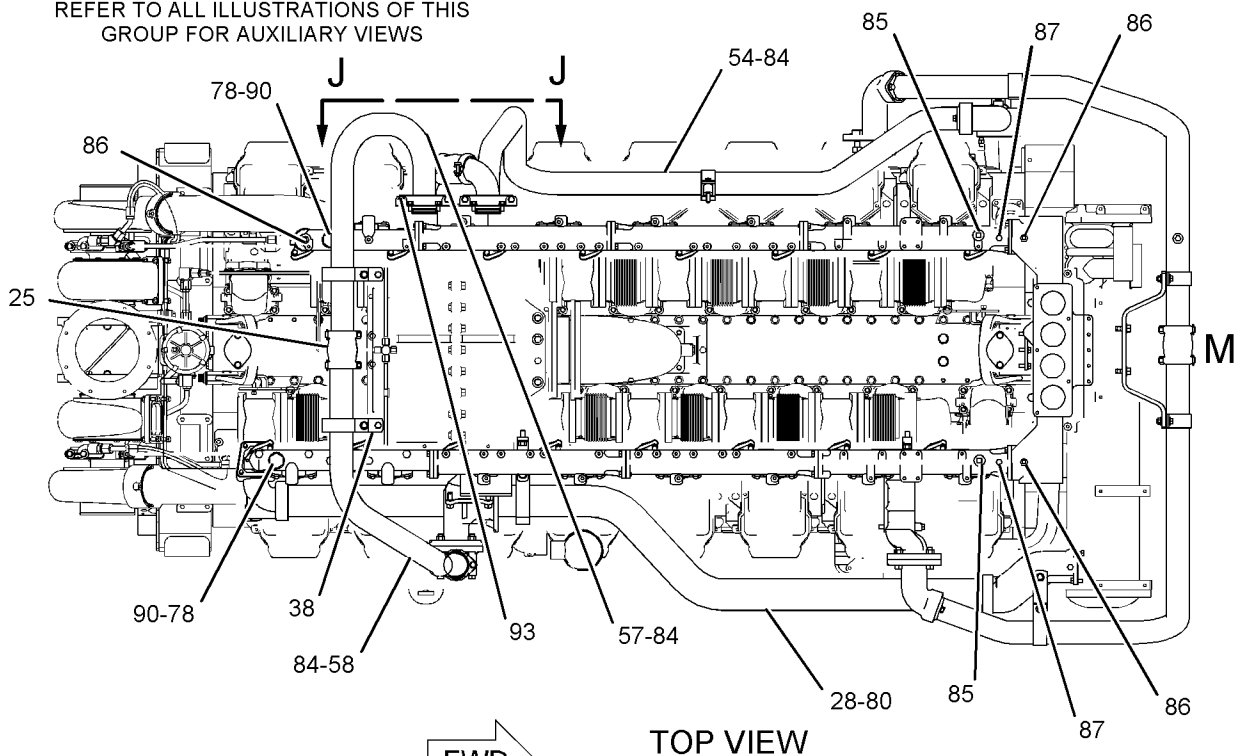
g01068111

COOLING SYSTEM

167-9212 LINES GP-WATER (contd.)

i02379304

REFER TO ALL ILLUSTRATIONS OF THIS GROUP FOR AUXILIARY VIEWS



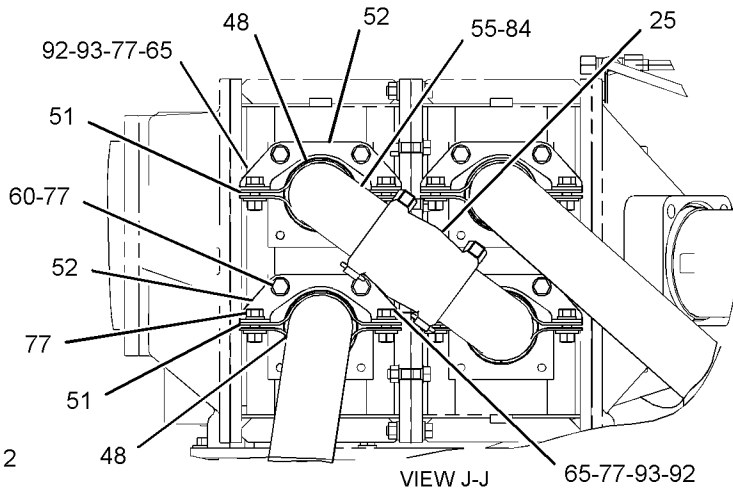
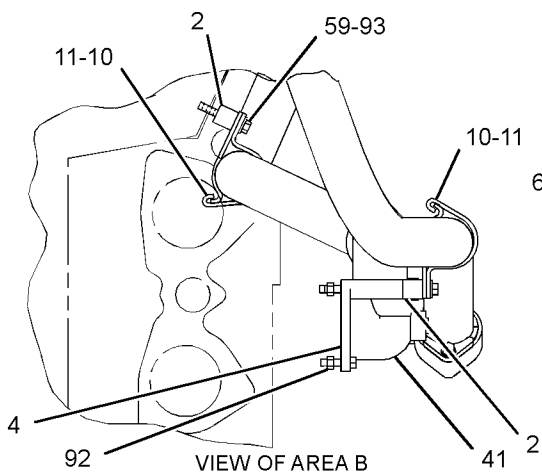
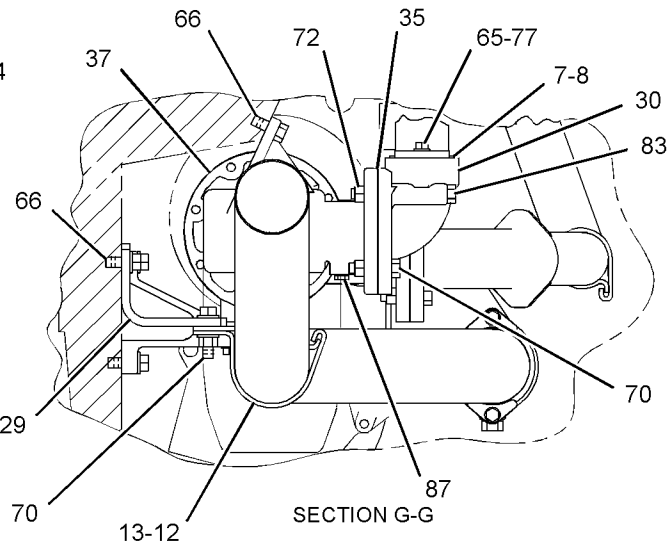
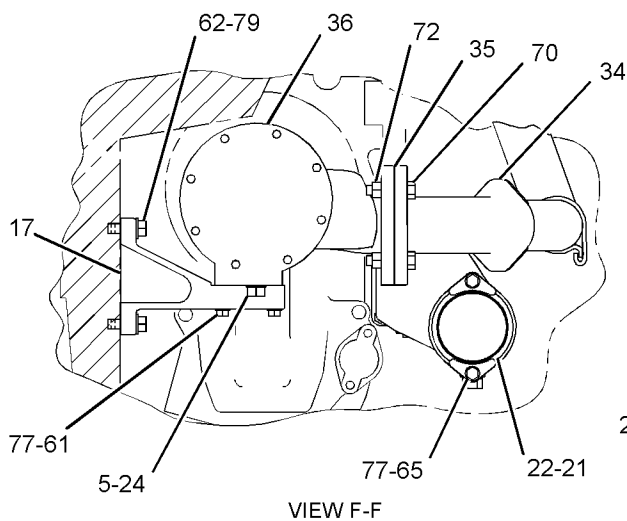
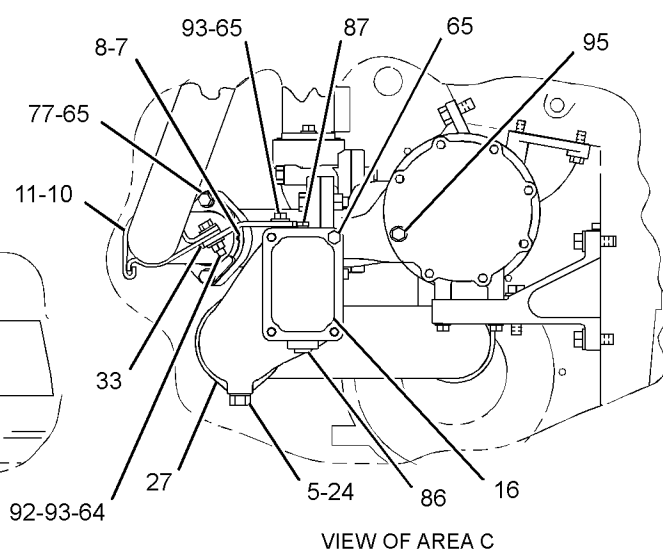
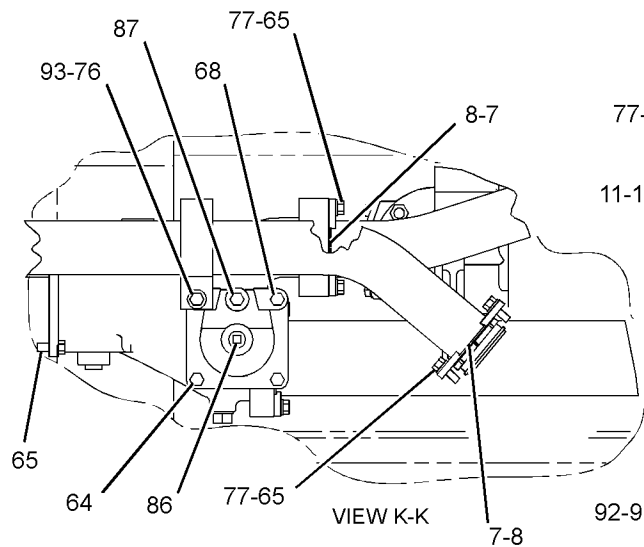
GRAPHIC #2

g01068059

COOLING SYSTEM

167-9212 LINES GP-WATER (contd.)

i02379304



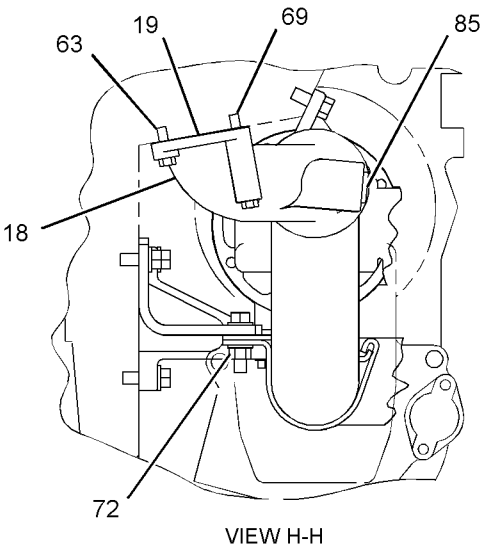
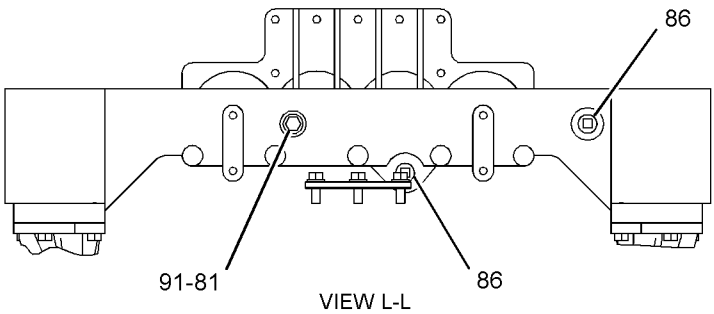
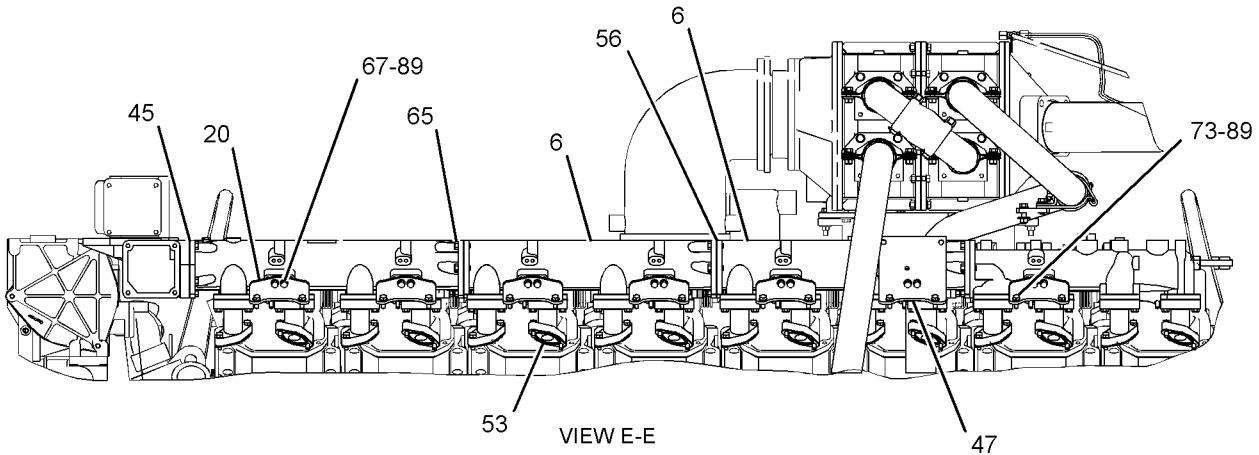
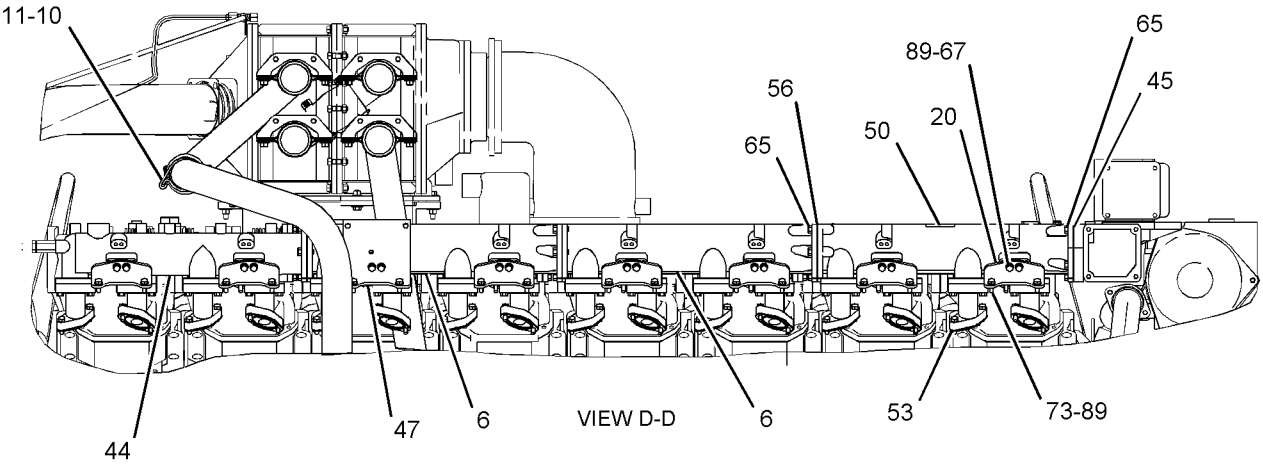
GRAPHIC #3

g01187977

COOLING SYSTEM

167-9212 LINES GP-WATER (contd.)

i02379304



GRAPHIC #4

<END>

g01068127

COOLING SYSTEM

174-0702 LINES GP-WATER-TURBOCHARGER

S/N: ZBA1-UP

SMCS-1355, 1380, 1393

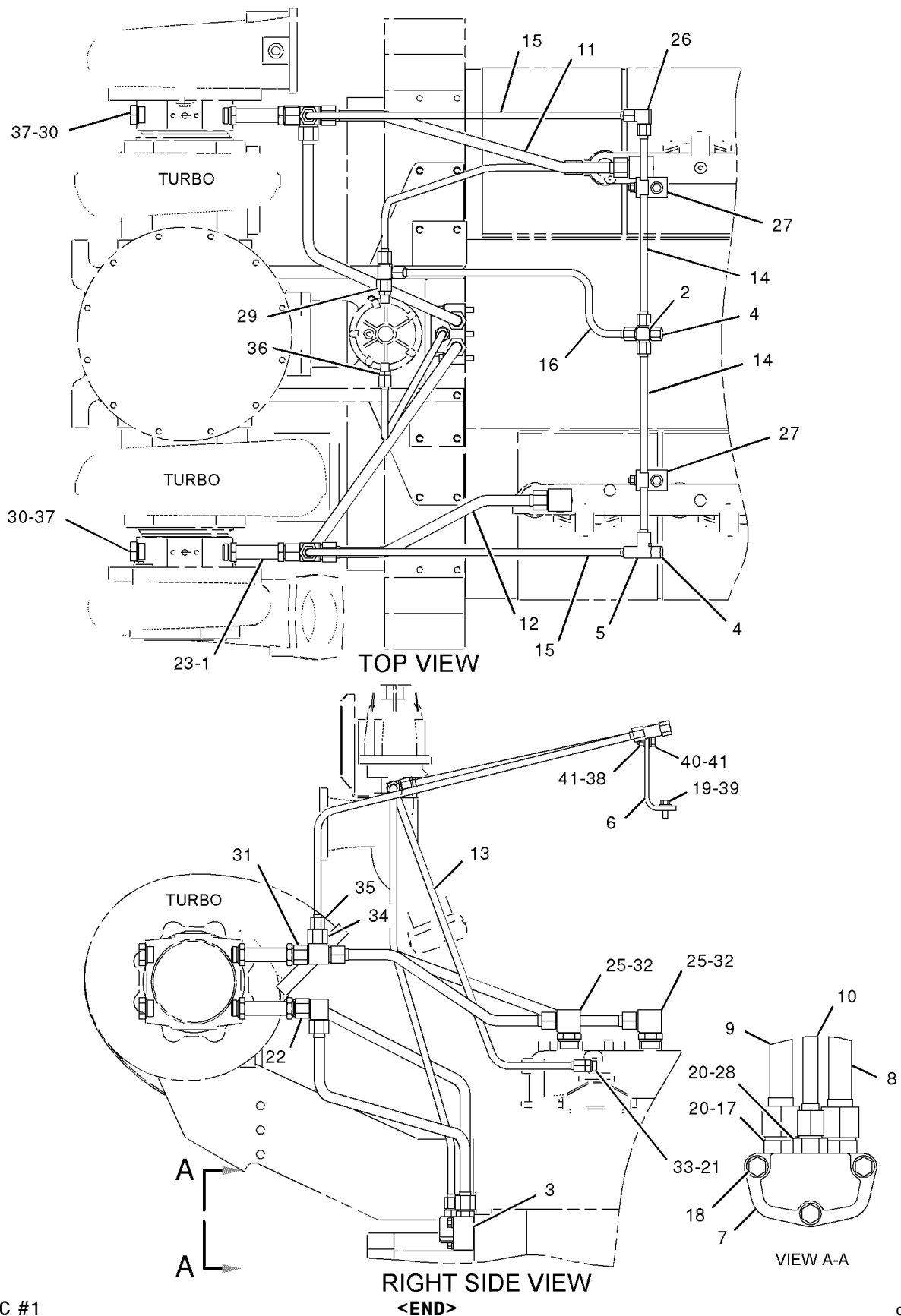
i01982665

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-1456	4	CONNECTOR						
	2	1	7J-6742	1	CROSS-FLARED						
	3	1	7N-3368	1	GASKET						
	4	1	8S-4951	2	CAP (FLARED)						
	5	1	032-1270	1	TEE						
	6	1	117-7515	2	BRACKET						
	7	1	144-2980	1	HOUSING						
	8	1	144-3988	1	TUBE AS						
	9	1	144-3989	1	TUBE AS						
	10	1	144-3990	1	TUBE AS						
	11	1	144-3991	1	TUBE AS						
	12	1	144-3992	1	TUBE AS						
	13	1	144-3993	1	TUBE AS						
	14	1	173-9906	2	TUBE AS						
	15	1	173-9907	2	TUBE AS						
	16	1	174-0704	1	TUBE AS						
	17	1	030-8196	2	CONNECTOR						
	18	1	0S-1590	3	BOLT (3/8-16X2-IN)						
	19	1	0S-1594	2	BOLT (3/8-16X1-IN)						
	20	1	2M-9780	3	SEAL-O-RING						
	21	1	3K-0360	1	SEAL-O-RING						
	22	1	3R-9704	2	ELBOW						
	23	1	4K-1388	4	SEAL-O-RING						
	25	1	5P-3466	2	ELBOW (FLARED)						
	26	1	5P-6399	1	ELBOW-FLARED						
	27	1	5P-9299	2	CLIP						
	28	1	6K-3607	1	CONNECTOR						
	29	1	6S-5693	1	TEE (SWIVEL)						
	30	1	6V-1903	4	SEAL-O-RING						
	31	1	7D-0978	2	TEE (SWIVEL)						
	32	1	7M-8485	2	SEAL-O-RING						
	33	1	8M-0505	1	CONNECTOR						
	34	1	8M-0744	2	NUT-FLARED (1-1/16-12-THD)						
	35	1	8M-0745	2	REDUCER-FLARED						
	36	1	8M-0755	2	CONNECTOR						
	37	1	9S-4188	4	PLUG						
	38	1	9S-8752	2	NUT-FULL (3/8-16-THD)						
	39	1	9X-6458	2	WASHER-HARD (10.2X22.5X3-MM THK)						
	40	1	0S-1594	2	BOLT (3/8-16X1-IN)						
	41	1	5M-2894	4	WASHER-HARD (10.2X18.5X2.5-MM THK)						

COOLING SYSTEM

174-0702 LINES GP-WATER (contd.)

i01982665



GRAPHIC #1

g01028123

COOLING SYSTEM

283-4387 LINES GP-WATER-OIL COOLER

S/N: ZBA330-UP

PART OF 120-4107 CONVERSION AR
AN ATTACHMENT

SMCS-1355, 1380, 1393

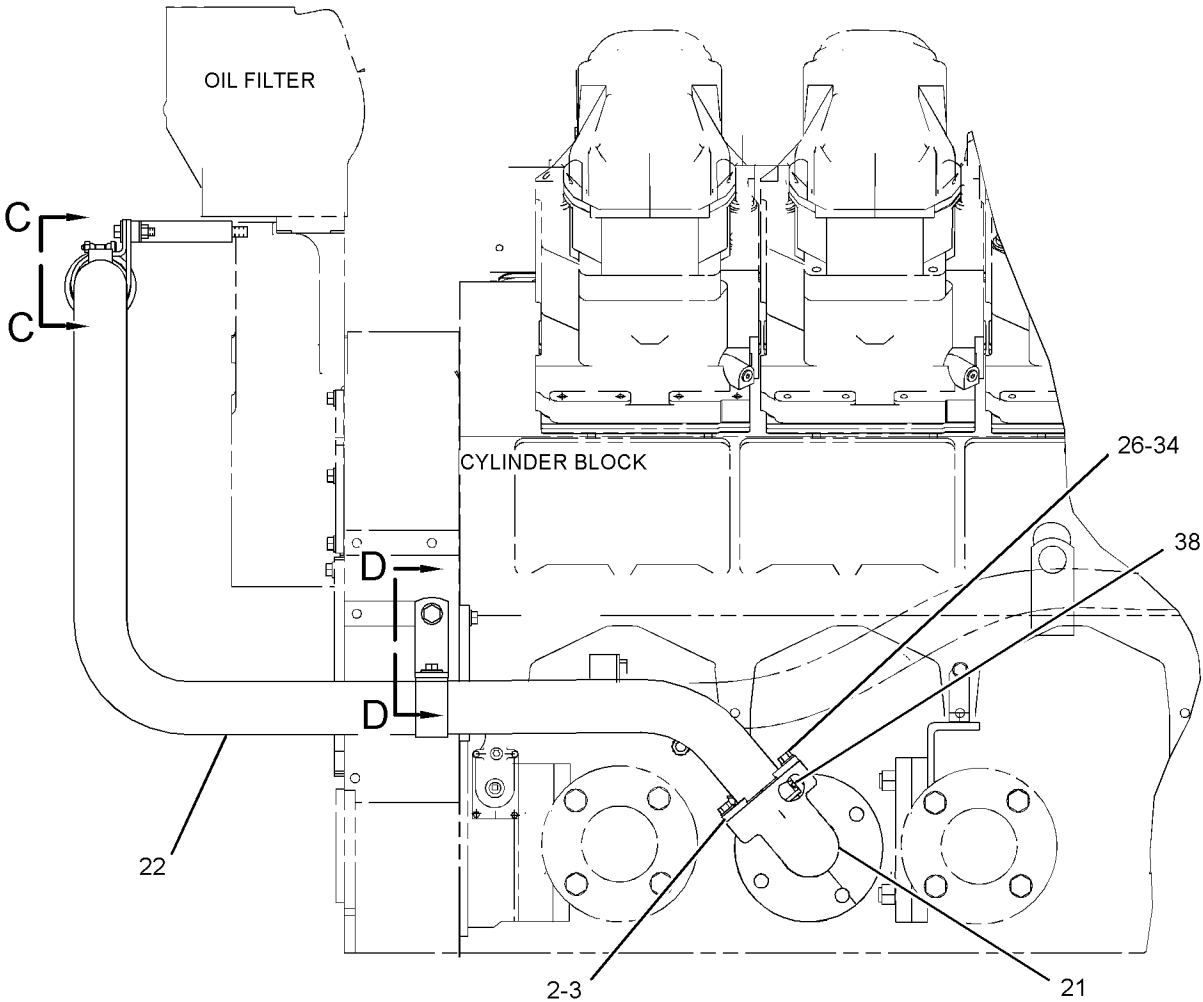
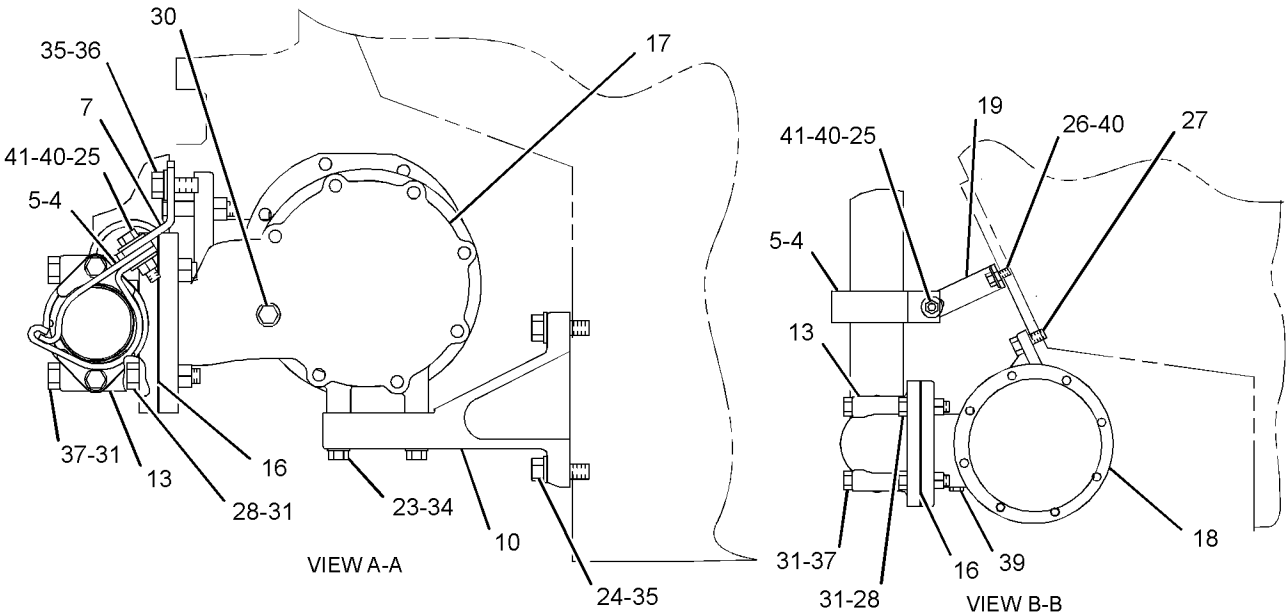
i02702192

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	2	4B-8407	1	GASKET-COPPER	
	2	1,2	4W-0530	3	RING-RETAINING	
	3	1,2	4W-0531	6	RETAINER	
	4	1,2	6V-1581	6	CLIP (SLOT)	
	5	1,2	6V-1582	6	CLIP (TAB)	
	6	2	7E-3376	1	COVER	
	7	1	7E-3377	1	BRACKET	
	8	2	7E-3378	1	TUBE	
	9	2	7E-3470	1	BRACKET	
	10	1	7N-4940	1	BRACKET	
	11	2	9M-4202	1	PLUG-DRAIN (OIL COOLER)	
	12	2	9S-9635	1	JOINT AS-TUBE	
		2	9X-7523	2	SEAL	
	13	1	9Y-6887	2	ELBOW-OIL COOLER	
	14	2	9Y-6888	1	TUBE	
	15	2	9Y-6890	1	BRACKET	
	16	1	9Y-6893	2	GASKET	
	17	1	9Y-6894	1	ADAPTER-OIL COOLER	
	18	1	9Y-6895	1	ADAPTER-OIL COOLER	
	19	1	9Y-6896	1	BRACKET	
	20	2	9Y-6897	1	BRACKET	
	21	1	9Y-8264	1	ELBOW (INLET)	
	22	1	283-1619	1	TUBE AS	
	23	1	0S-1571	2	BOLT (3/8-16X1.75-IN)	
	24	1	0S-1585	2	BOLT (1/2-13X1.5-IN)	
	25	1,2	0S-1591	8	BOLT (3/8-16X1.5-IN)	
	26	1,2	0S-1594	8	BOLT (3/8-16X1-IN)	
	27	1,2	0S-1595	4	BOLT (1/2-13X1.25-IN)	
	28	1	1A-1460	4	BOLT (1/2-13X2-IN)	
	29	2	1A-2029	2	BOLT (3/8-16X1.125-IN)	
	30	1	1A-5183	1	BOLT (3/8-16X4.75-IN)	
	31	1	1F-7958	8	NUT-FULL (1/2-13-THD)	
	32	2	2A-4639	2	BOLT (3/8-16X1.625-IN)	
	33	2	5H-6734	1	SEAL-O-RING	
	34	1,2	5M-2894	12	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	35	1,2	5P-8245	6	WASHER-HARD (13.5X25.5X3-MM THK)	
	36	1,2	6H-1717	2	BOLT (1/2-13X1.125-IN)	
	37	1	8S-9089	4	BOLT (1/2-13X4.5-IN)	
	38	1,2	8T-1919	3	SEAL-O-RING	
	39	1	8T-6765	2	PLUG-PIPE	
	40	1,2	9L-9132	12	WASHER (10.2X25.5X2.5-MM THK)	
	41	1,2	9S-8752	5	NUT-FULL (3/8-16-THD)	

COOLING SYSTEM

283-4387 LINES GP-WATER (contd.)

i02702192



REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS

LEFT SIDE VIEW OF ENGINE

GRAPHIC #1

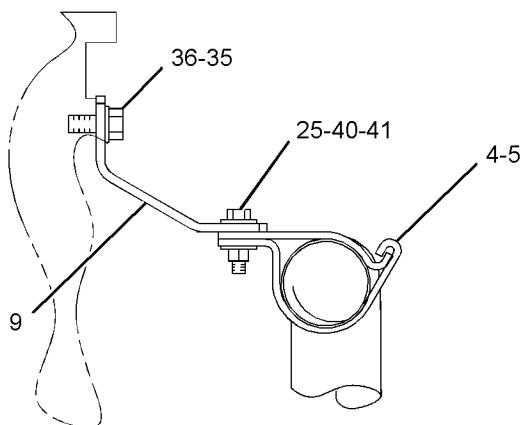
g01382341

COOLING SYSTEM

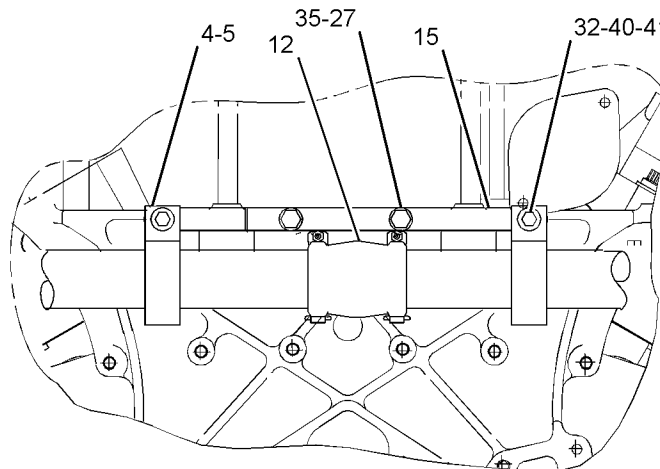
283 - 4387 LINES GP - WATER (contd.)

i02702192

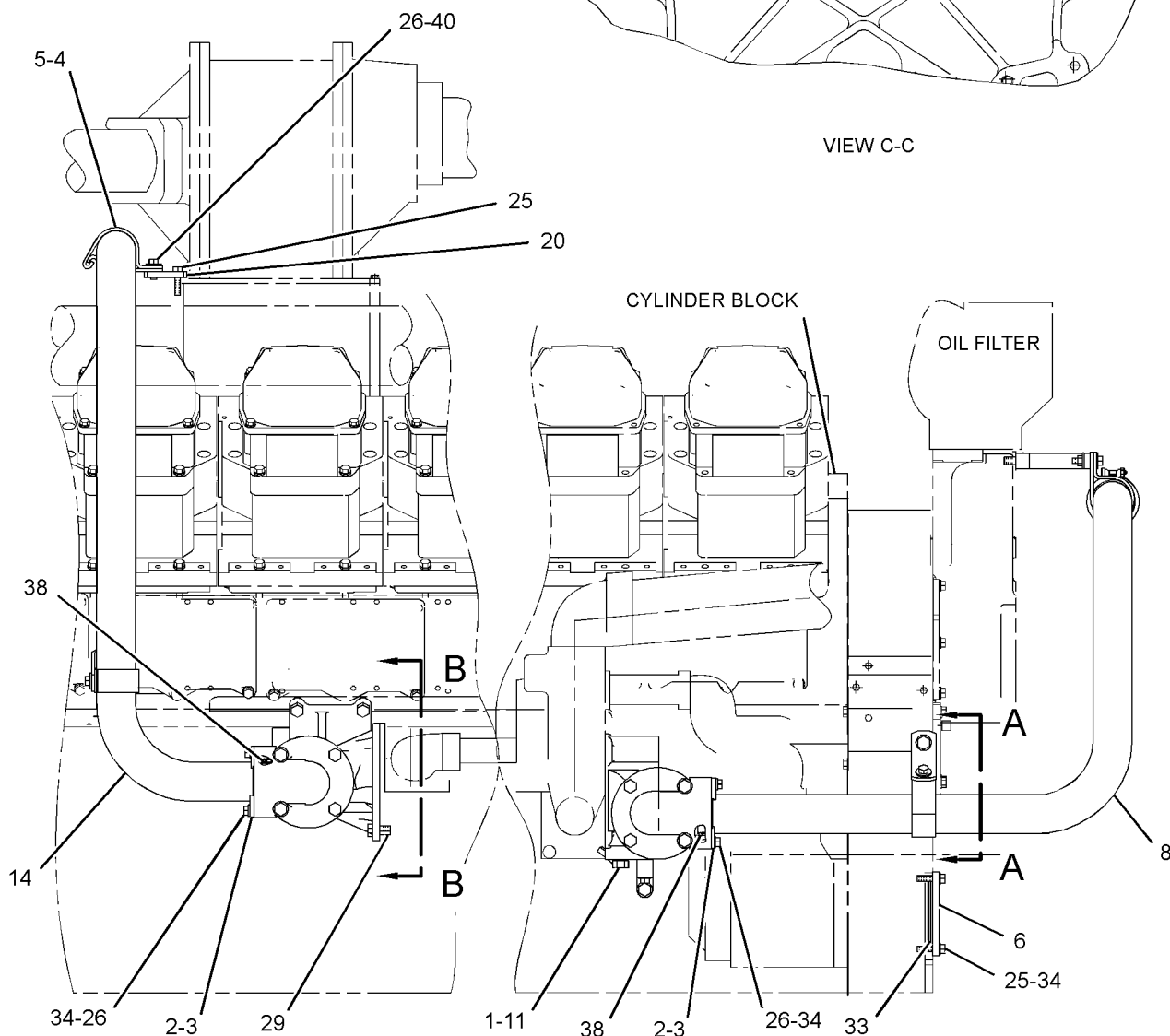
REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS



VIEW D-D



VIEW C-C



RIGHT SIDE VIEW OF ENGINE

<END>

GRAPHIC #2

g01382340

COOLING SYSTEM

283-4402 LINES GP-WATER-AFTERCOOLER, JACKET WATER

S/N: ZBA289-UP

SMCS-1355, 1380, 1393

i02801492

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	4	1B-4971	2	SPACER (0.406X1X1-IN THK)	
	2	2	2W-3146	16	FLANGE	
	3	4	3P-6061	1	GASKET	
	4	4	4B-8407	2	GASKET-COPPER	
	5	3	4P-3897	4	MANIFOLD (INTERMEDIATE)	
	6	4	4W-0530	4	RING-RETAINING	
	7	4	4W-0531	8	RETAINER	
	8	1	6H-6698	2	COVER	
	9	2,3,4	6V-1581	7	CLIP (SLOT)	
	10	2,3,4	6V-1582	7	CLIP (TAB)	
	11	4	6V-4356	1	CLIP (SLOT)	
	12	4	6V-4357	1	CLIP (TAB)	
	13	1	7N-3368	1	GASKET	
	14	4	7N-4932	1	GASKET	
	15	4	7N-4940	1	BRACKET	
	16	3	7N-4944	1	ELBOW	
	17	3	7N-4945	1	GASKET	
	18	3	8N-1268	13	BRACKET	
	19	4	8N-3639	2	RETAINER	
	20	4	8N-3640	1	RING-RETAINING	
	21	2	8N-7639	16	ELBOW	
	22	4	9M-4202	2	PLUG-DRAIN	
	23	1,4	9S-9635	3	JOINT AS-TUBE	
					(EACH INCLUDES)	
		1,4	9X-7523	2	SEAL	
	24	2	9Y-4090	1	HOUSING-REGULATOR	
	25	4	9Y-6884	1	ELBOW-WATER PUMP	
	26	1	9Y-6885	1	TUBE	
	27	4	9Y-6886	1	BRACKET	
	28	4	9Y-6887	1	ELBOW-OIL COOLER	
	29	1	9Y-6889	1	TUBE	
	30	1	9Y-6890	1	BRACKET	
	31	4	9Y-6891	1	BRACKET	
	32	4	9Y-6892	1	ELBOW-OIL COOLER	
	33	4	9Y-6893	2	GASKET	
	34	4	9Y-6894	1	ADAPTER-OIL COOLER	
	35	4	9Y-6895	1	ADAPTER-OIL COOLER	
	36	1	9Y-6897	2	BRACKET	
	37	1	9Y-7763	1	SUPPORT	
	38	4	9Y-8263	1	ELBOW	
	39	1	111-8276	1	MANIFOLD (REAR, LH)	
	40	3	111-8277	1	MANIFOLD (REAR, RH)	
	41	3	122-8856	2	GASKET	
	42	3	136-6216	2	BRACKET	
	43	4	153-9963	4	RING	
	44	1	154-1616	1	MANIFOLD (FRONT, LH)	
	45	3	154-1617	1	MANIFOLD (FRONT, RH)	
	46	4	157-1435	8	CLAMP	
	47	4	157-1437	8	BRACKET	
	48	3	179-2960	16	SEAL-INTEGRAL	
	49	1	197-3099	1	TUBE	
	50	4	197-3100	2	TUBE	
	51	3	198-6067	6	SEAL-INTEGRAL	
	52	1	202-3170	1	TUBE	
	53	1	202-9946	1	TUBE	
	54	2	204-9598	16	SEAL-INTEGRAL	
	55	1	230-1072	2	GASKET	

COOLING SYSTEM

283-4402 LINES GP-WATER (contd.)

i02801492

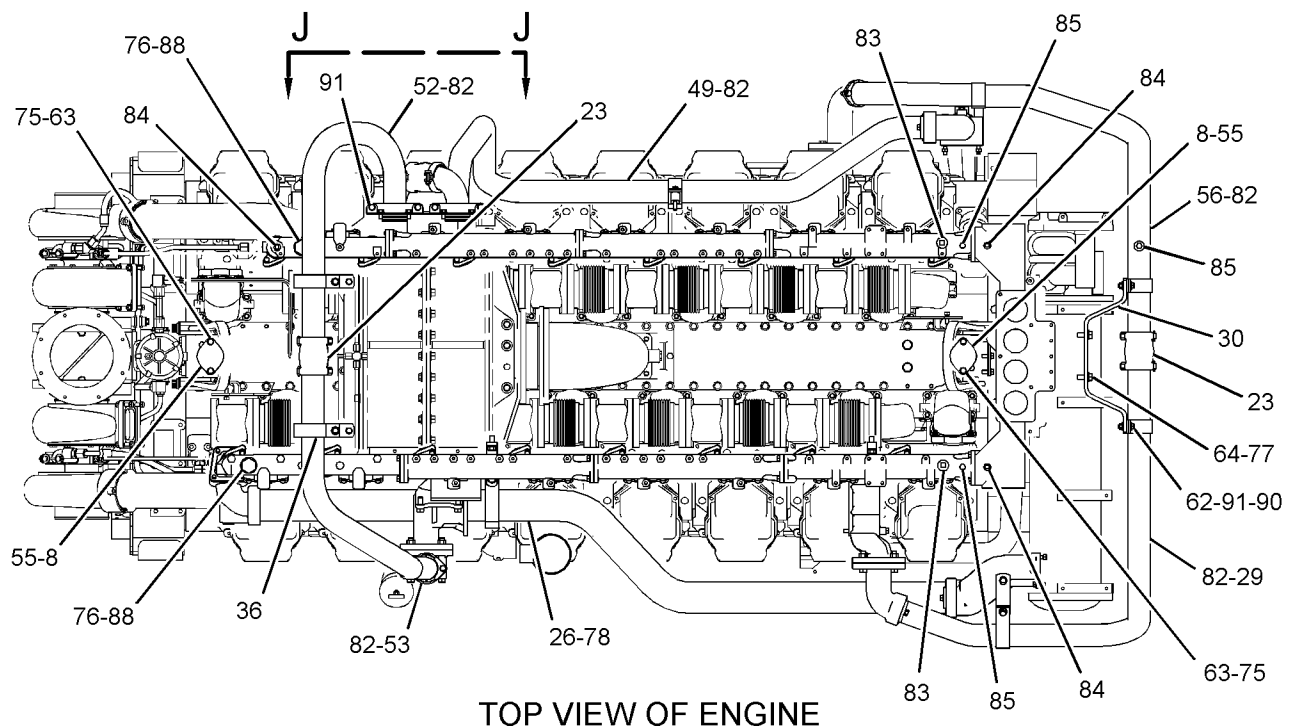
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	56	1	283-1619	1	TUBE AS						
	57	4	0L-1143	1	BOLT (3/8-16X2.5-IN)						
	58	4	0S-0509	16	BOLT (3/8-16X0.75-IN)						
	59	4	0S-1571	2	BOLT (3/8-16X1.75-IN)						
	60	4	0S-1585	2	BOLT (1/2-13X1.5-IN)						
	61	3	0S-1588	2	BOLT (3/8-16X1.25-IN)						
	62	1,4	0S-1591	5	BOLT (3/8-16X1.5-IN)						
	63	1,3,4	0S-1594	64	BOLT (3/8-16X1-IN)						
	64	1,4	0S-1595	5	BOLT (1/2-13X1.25-IN)						
	65	3	0S-1618	30	BOLT (5/16-18X1-IN)						
	66	4	0T-0055	1	BOLT (3/8-16X4.25-IN)						
	67	3	0T-0065	2	BOLT (3/8-16X3.5-IN)						
	68	4	1A-1460	7	BOLT (1/2-13X2-IN)						
	69	4	1A-5183	1	BOLT (3/8-16X4.75-IN)						
	70	2	1B-7182	64	BOLT (5/16-18X1.25-IN)						
	71	3,4	1F-7958	9	NUT-FULL (1/2-13-THD)						
	72	3	2B-2695	30	BOLT (5/16-18X0.875-IN)						
	73	2	3B-1915	2	BOLT (3/8-16X1.375-IN)						
	74	4	1D-4706	1	BOLT (3/8-16X6-IN)						
	75	1,2,4	5M-2894	45	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	76	1	5P-7701	2	SEAL-O-RING						
	77	1,4	5P-8245	7	WASHER-HARD (13.5X25.5X3-MM THK)						
	78	1	6V-5066	2	SEAL-O-RING						
	79	3	6V-9027	1	SEAL-O-RING						
	80	2	6V-9769	16	SEAL-O-RING						
	81	4	8S-9089	2	BOLT (1/2-13X4.5-IN)						
	82	1,4	8T-1919	8	SEAL-O-RING						
	83	1,3	8T-6761	3	PLUG-PIPE						
	84	1,3,4	8T-6762	7	PLUG-PIPE						
	85	1,4	8T-6765	6	PLUG-PIPE						
	86	2	9L-9132	2	WASHER (10.2X25.5X2.5-MM THK)						
	87	3	9M-1974	60	WASHER-HARD (8.8X16X2-MM THK)						
	88	1	9S-4181	2	PLUG-O-RING						
	89	3	9S-4182	1	PLUG-O-RING						
	90	1,2,4	9S-8752	17	NUT-FULL (3/8-16-THD)						
	91	1,4	9X-6458	19	WASHER-HARD (10.2X22.5X3-MM THK)						

COOLING SYSTEM

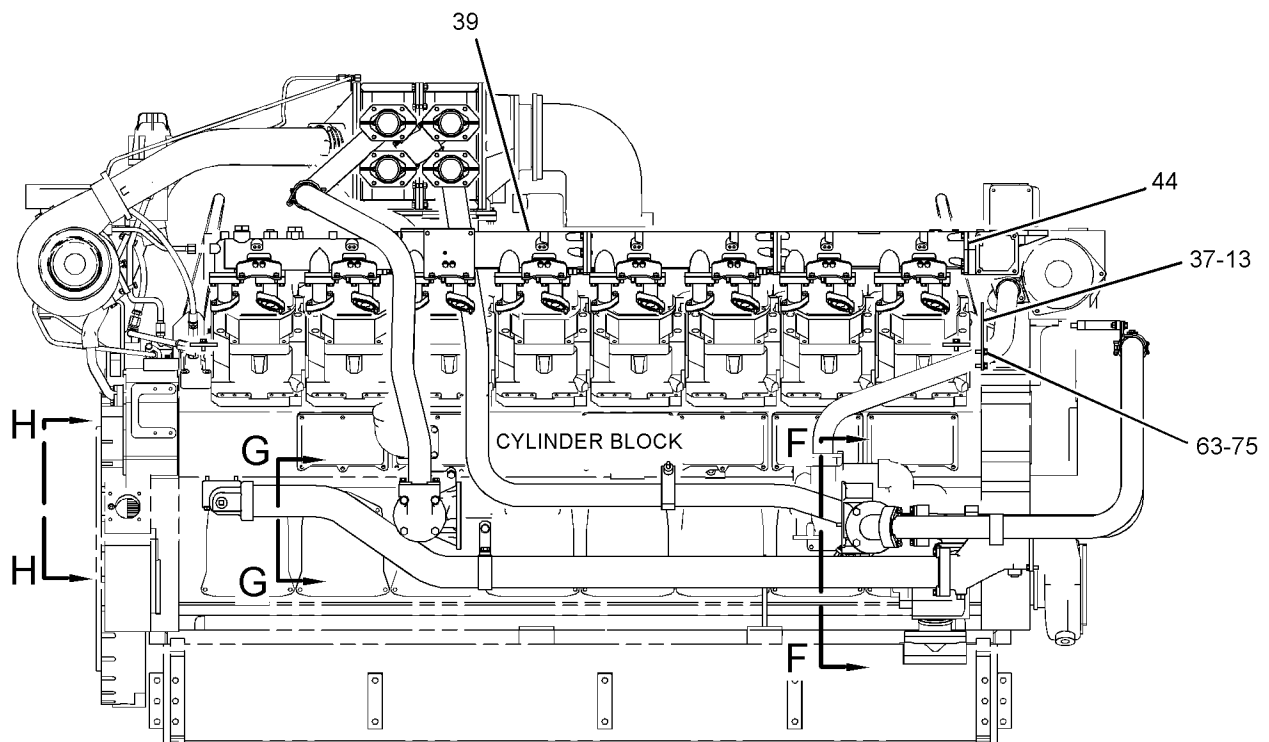
283-4402 LINES GP-WATER (contd.)

i02801492

REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS



TOP VIEW OF ENGINE



RIGHT SIDE VIEW OF ENGINE

GRAPHIC #1

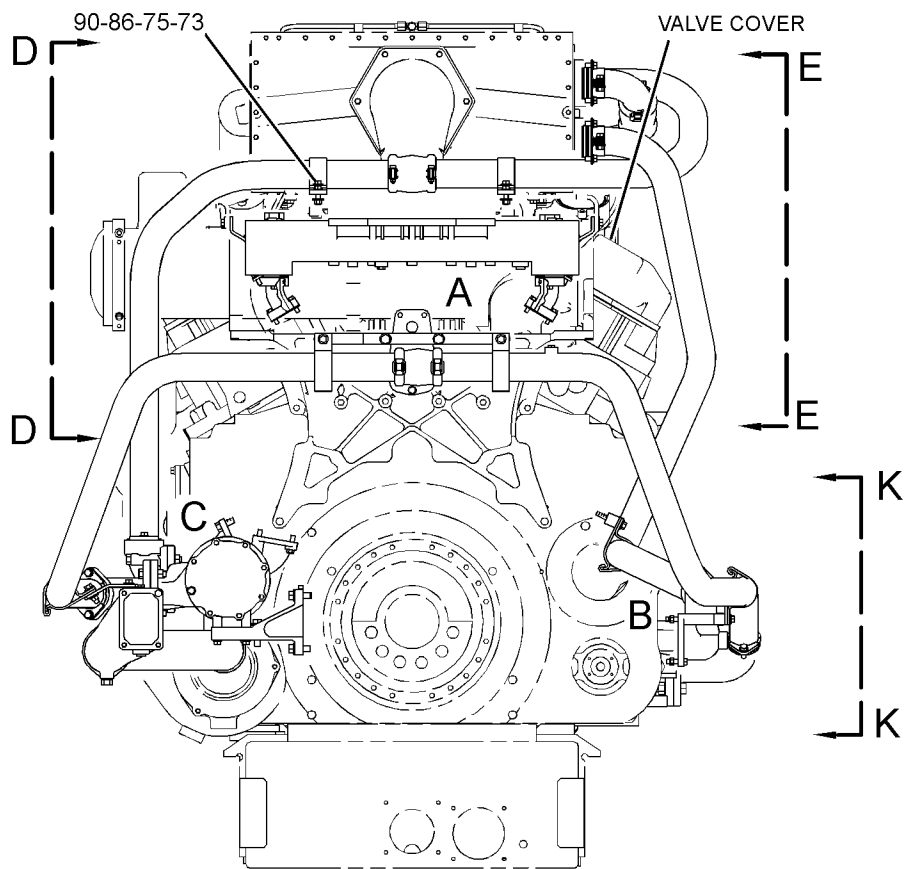
g01288027

COOLING SYSTEM

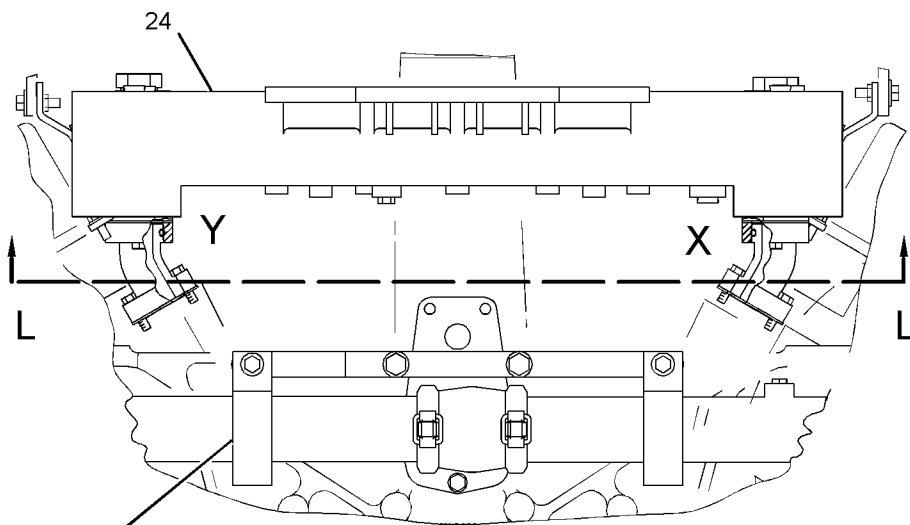
283-4402 LINES GP-WATER (contd.)

i02801492

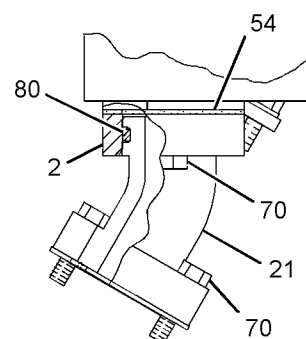
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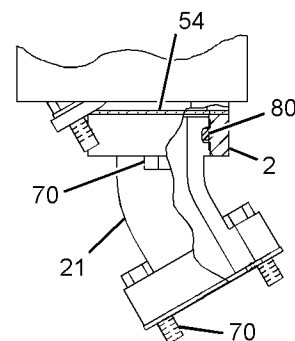
FRONT VIEW OF ENGINE



VIEW OF AREA A



VIEW OF AREA X



VIEW OF AREA Y

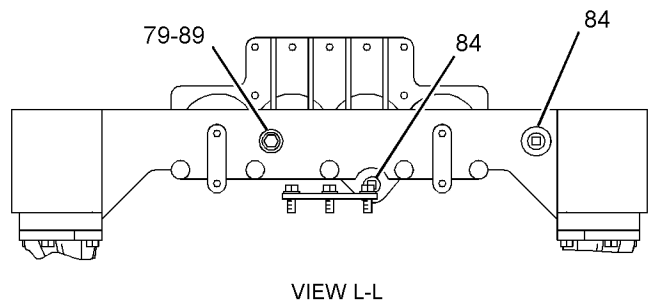
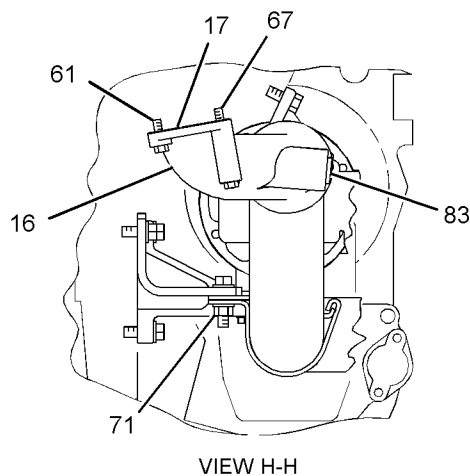
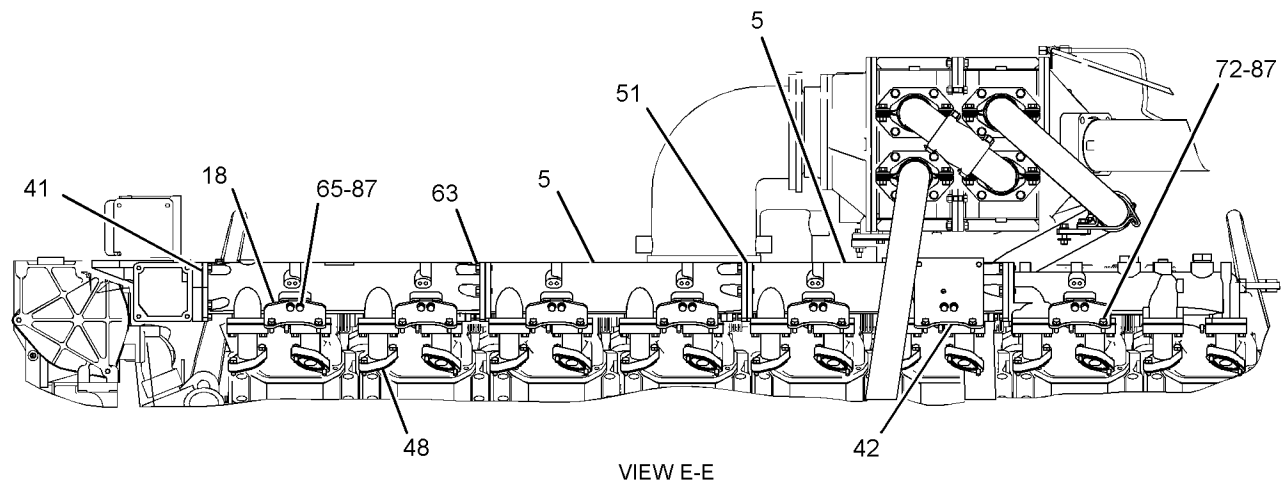
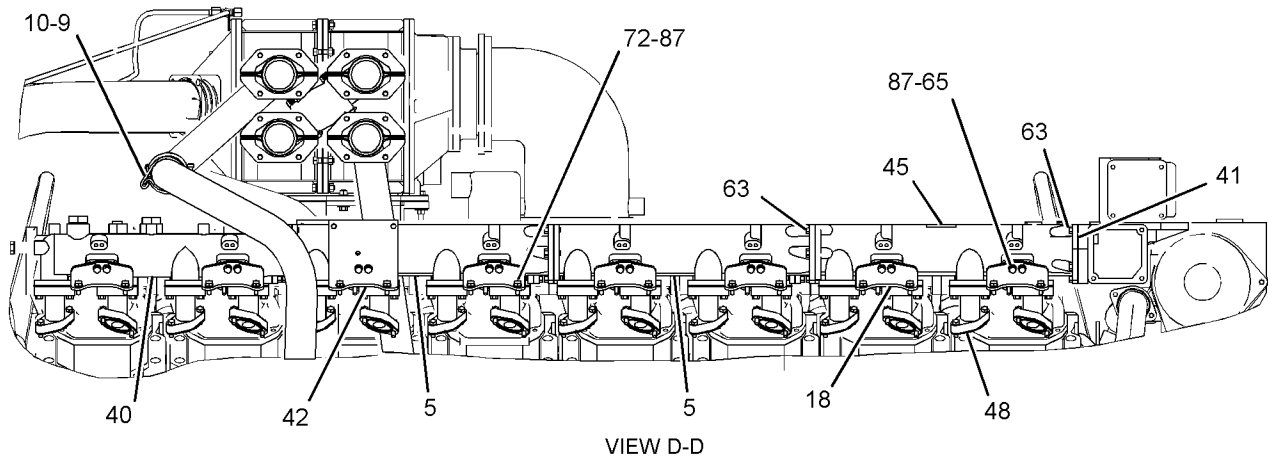
GRAPHIC #2

g01288047

COOLING SYSTEM

283-4402 LINES GP-WATER (contd.)

i02801492



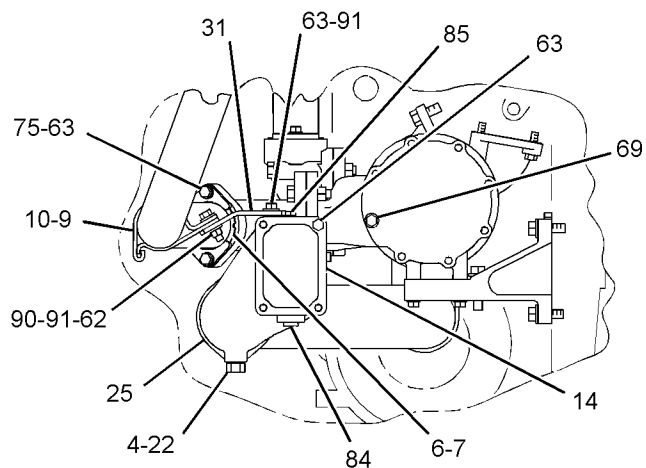
GRAPHIC #3

g01288028

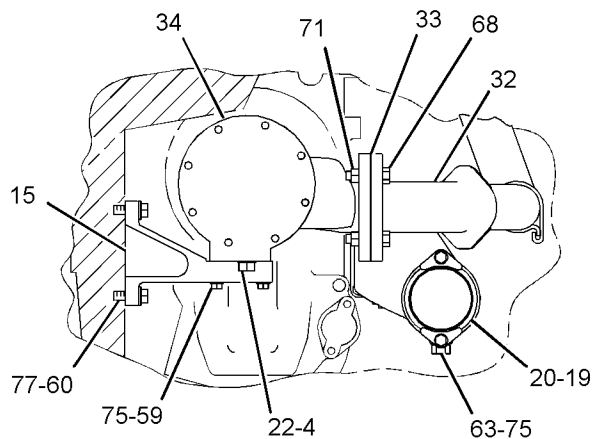
COOLING SYSTEM

283-4402 LINES GP-WATER (contd.)

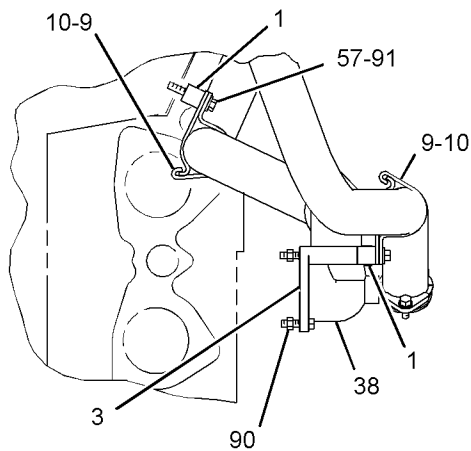
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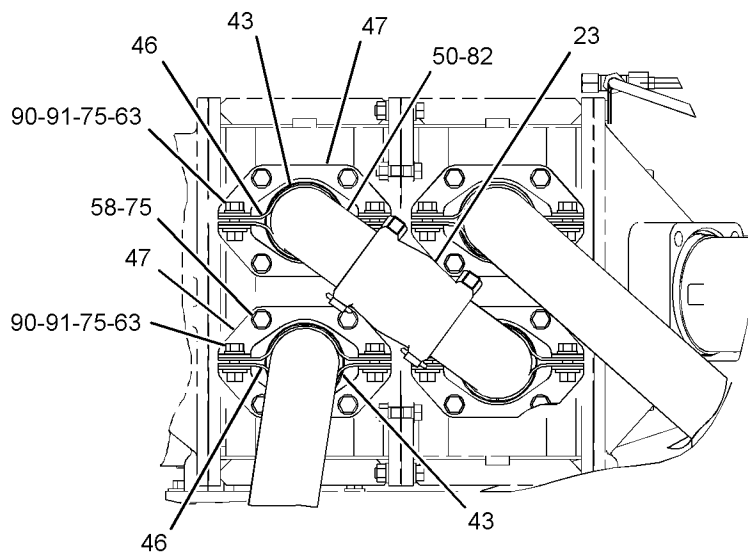
VIEW OF AREA C



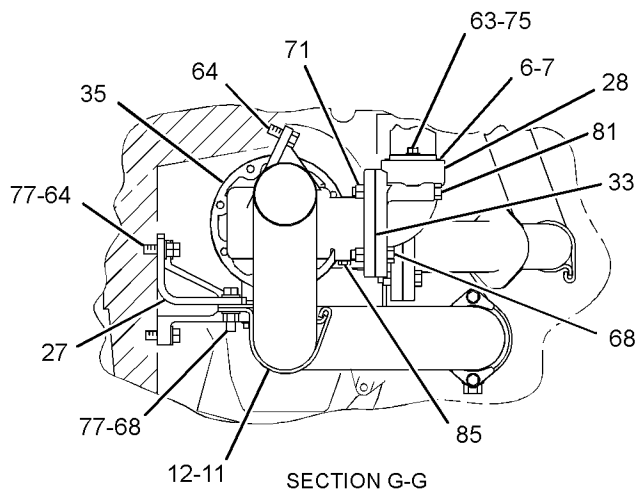
SECTION F-F



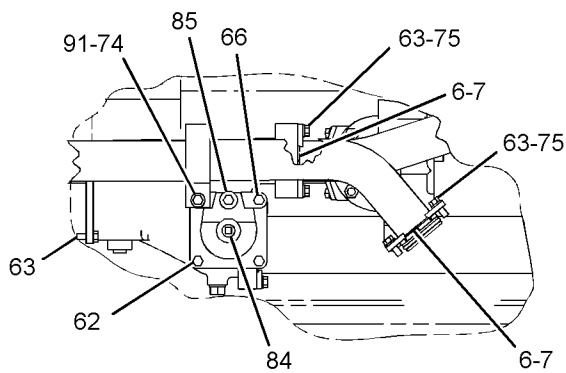
VIEW OF AREA B



VIEW J-J



SECTION G-G



VIEW K-K

GRAPHIC #4

<END>

g01288029

COOLING SYSTEM

283-5641 LINES GP-WATER-OIL COOLER

S/N: ZBA289-UP

SMCS-1355, 1380, 1393

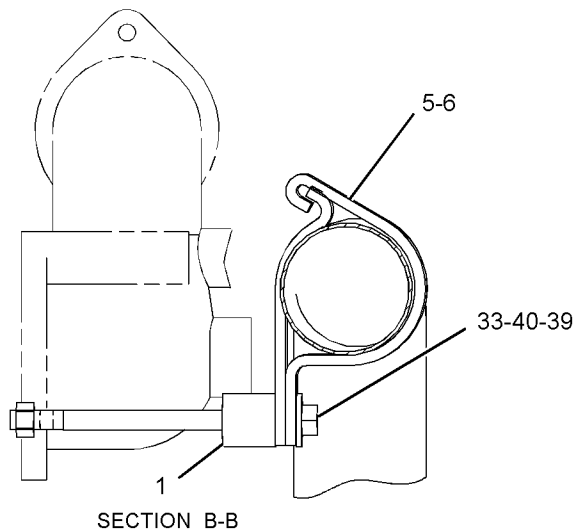
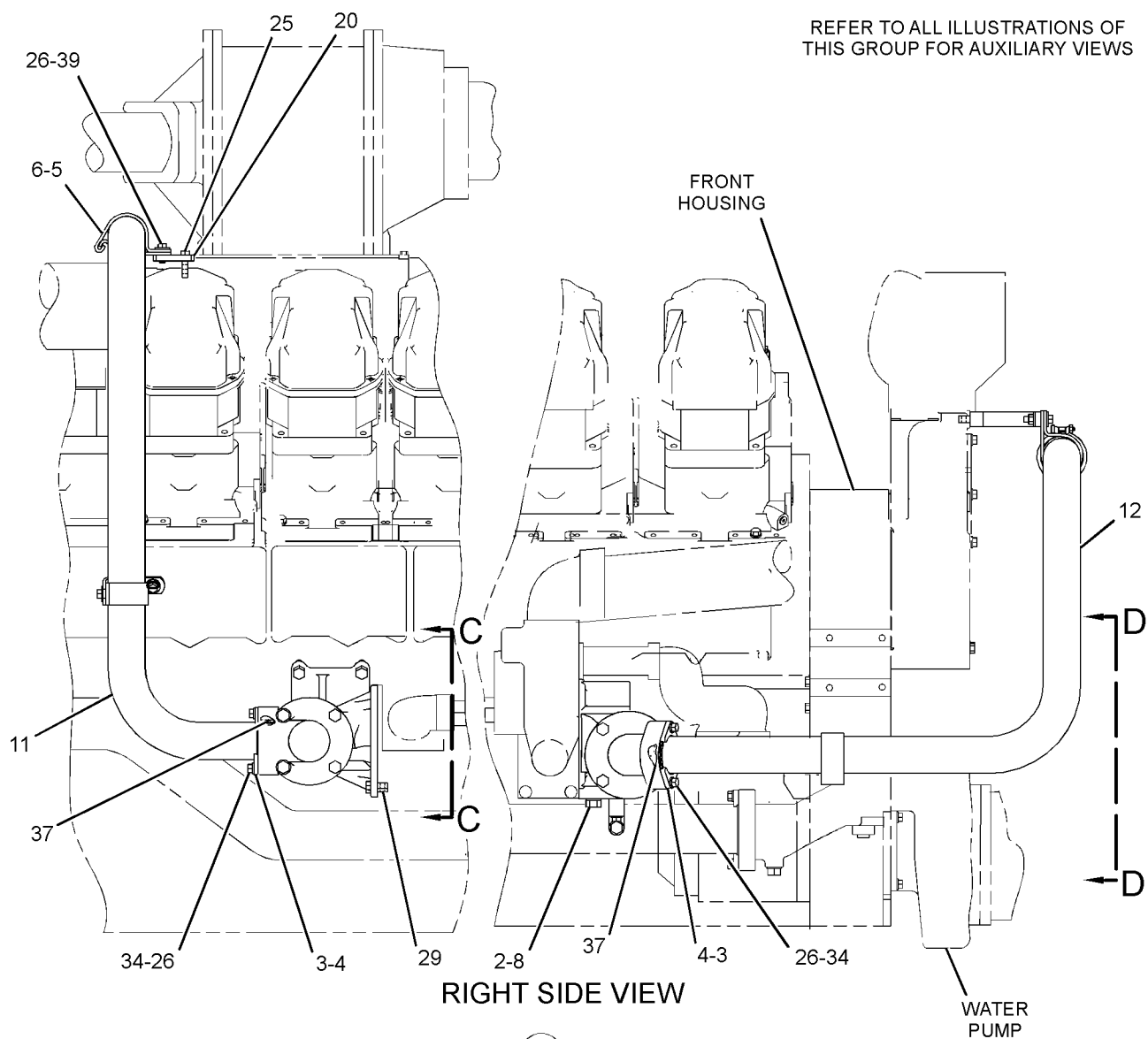
i02476383

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1B-4971	1	SPACER (0.406X1X1-IN THK)						
	2	1	4B-8407	1	GASKET-COPPER						
	3	1,2	4W-0530	3	RING-RETAINING						
	4	1,2	4W-0531	6	RETAINER						
	5	1,2,3	6V-1581	6	CLIP (SLOT)						
	6	1,2,3	6V-1582	6	CLIP (TAB)						
	7	3	7N-4940	1	BRACKET						
	8	1	9M-4202	1	PLUG-DRAIN						
	9	2	9S-9635	1	JOINT AS-TUBE						
		2	9X-7523	2	SEAL						
	10	3	9Y-6887	1	ELBOW-OIL COOLER						
	11	1	9Y-6888	1	TUBE						
	12	1	9Y-6889	1	TUBE						
	13	2	9Y-6890	1	BRACKET						
	14	3	9Y-6891	1	BRACKET						
	15	3	9Y-6892	1	ELBOW-OIL COOLER						
	16	3	9Y-6893	2	GASKET						
	17	3	9Y-6894	1	ADAPTER-OIL COOLER						
	18	3	9Y-6895	1	ADAPTER-OIL COOLER						
	19	3	9Y-6896	1	BRACKET						
	20	1	9Y-6897	1	BRACKET						
	21	2	283-1619	1	TUBE AS						
	22	3	0L-1351	1	BOLT (3/8-16X0.875-IN)						
	23	3	0S-1571	2	BOLT (3/8-16X1.75-IN)						
	24	3	0S-1585	2	BOLT (1/2-13X1.5-IN)						
	25	1,3	0S-1591	2	BOLT (3/8-16X1.5-IN)						
	26	1,2,3	0S-1594	9	BOLT (3/8-16X1-IN)						
	27	2,3	0S-1595	4	BOLT (1/2-13X1.25-IN)						
	28	3	1A-1460	6	BOLT (1/2-13X2-IN)						
	29	1	1A-2029	2	BOLT (3/8-16X1.125-IN)						
	30	3	1A-5183	1	BOLT (3/8-16X4.75-IN)						
	31	3	1F-7958	8	NUT-FULL (1/2-13-THD)						
	32	2	2A-4639	2	BOLT (3/8-16X1.625-IN)						
	33	1	5F-4899	1	BOLT (3/8-16X5.5-IN)						
	34	1,2,3	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	35	2,3	5P-8245	4	WASHER-HARD (13.5X25.5X3-MM THK)						
	36	3	8S-9089	2	BOLT (1/2-13X4.5-IN)						
	37	1,2	8T-1919	3	SEAL-O-RING						
	38	2,3	8T-6765	2	PLUG-PIPE						
	39	1,2,3	9L-9132	12	WASHER (10.2X25.5X2.5-MM THK)						
	40	1,2,3	9S-8752	5	NUT-FULL (3/8-16-THD)						

COOLING SYSTEM

283-5641 LINES GP-WATER (contd.)

i02476383



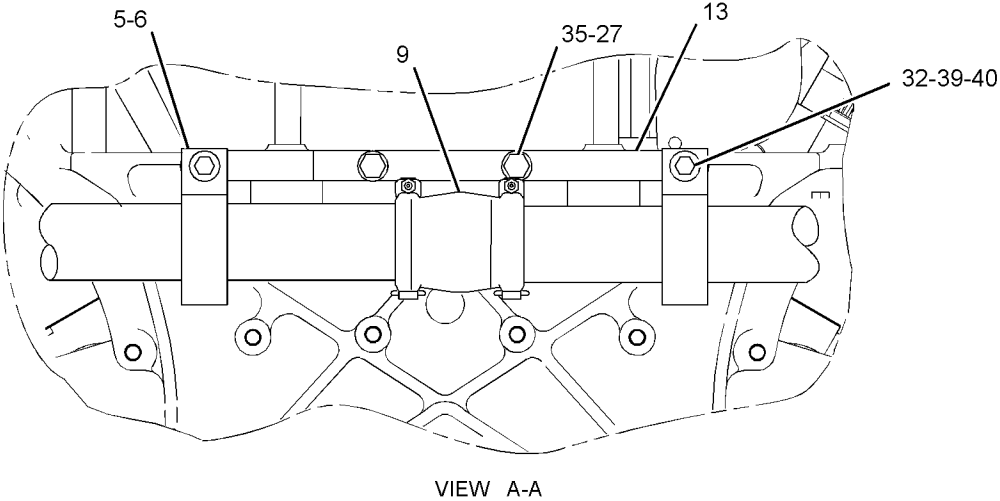
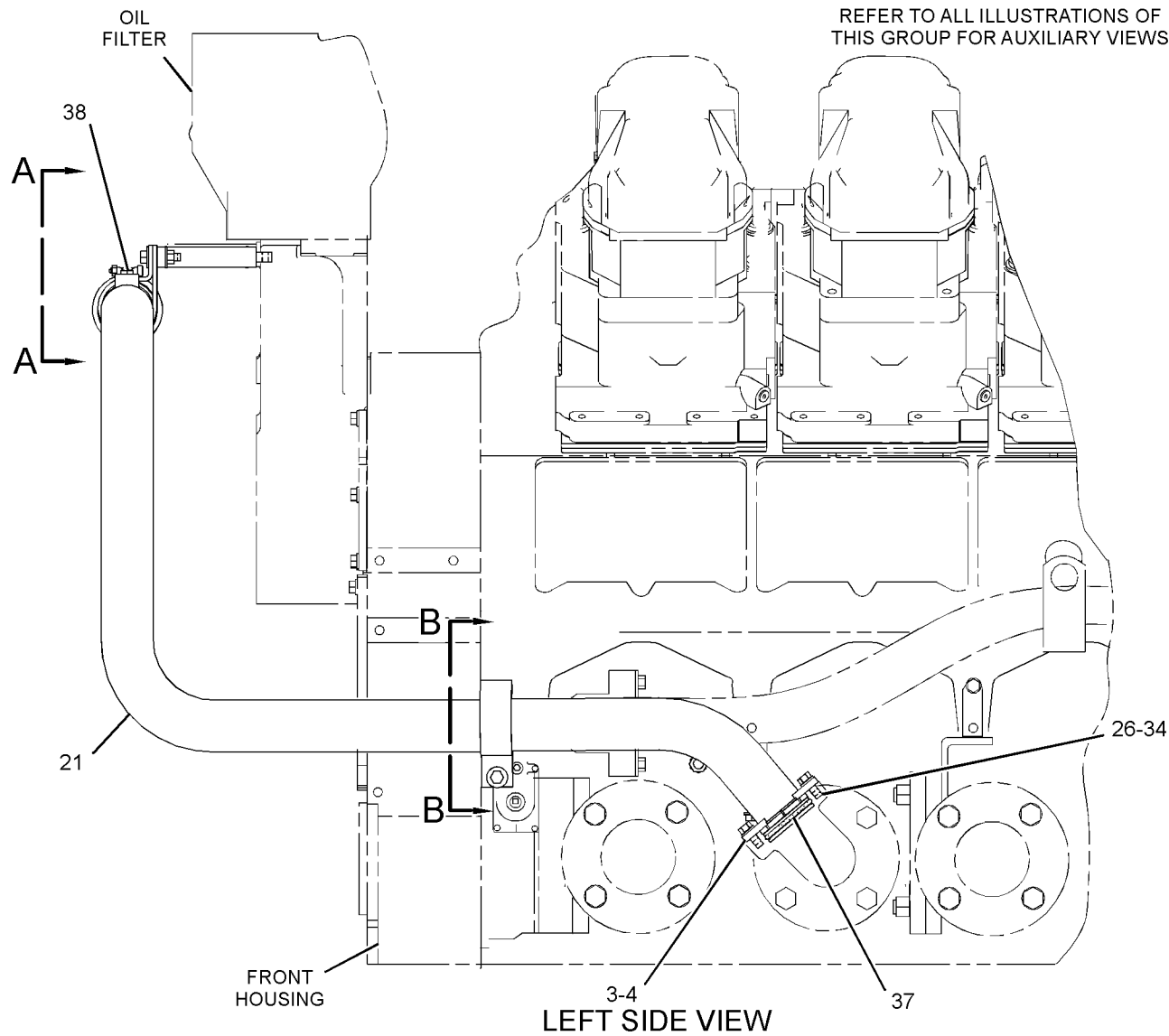
GRAPHIC #1

g01279401

COOLING SYSTEM

283-5641 LINES GP-WATER (contd.)

i02476383



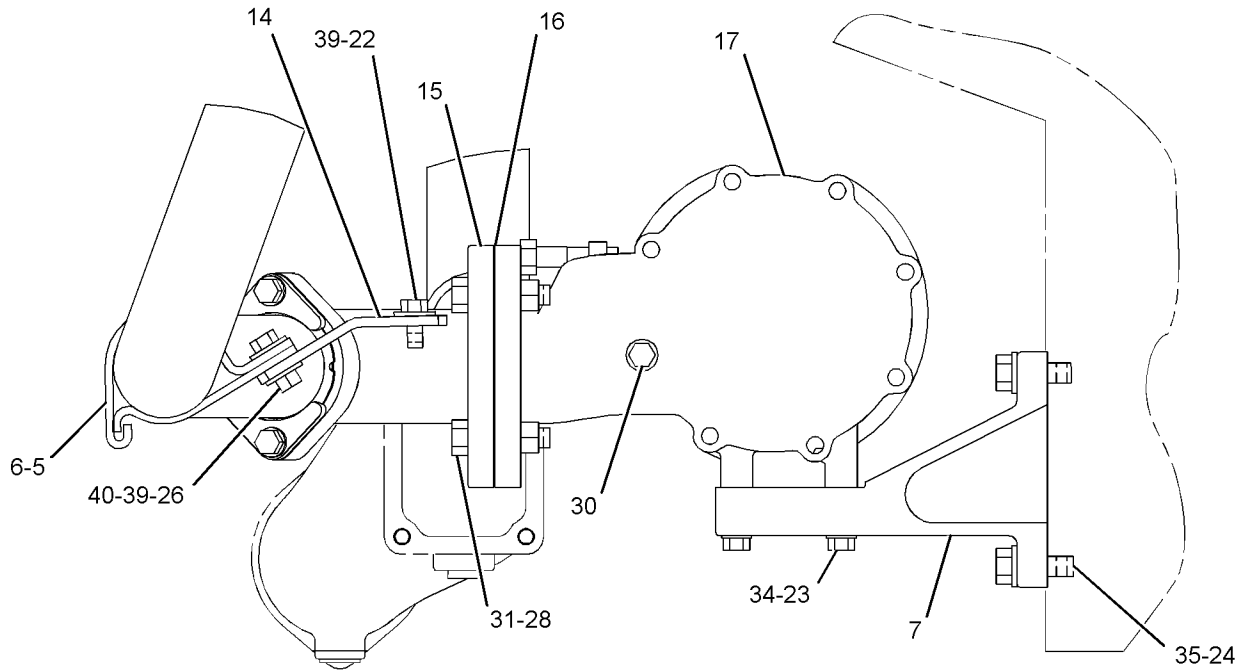
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g01279402

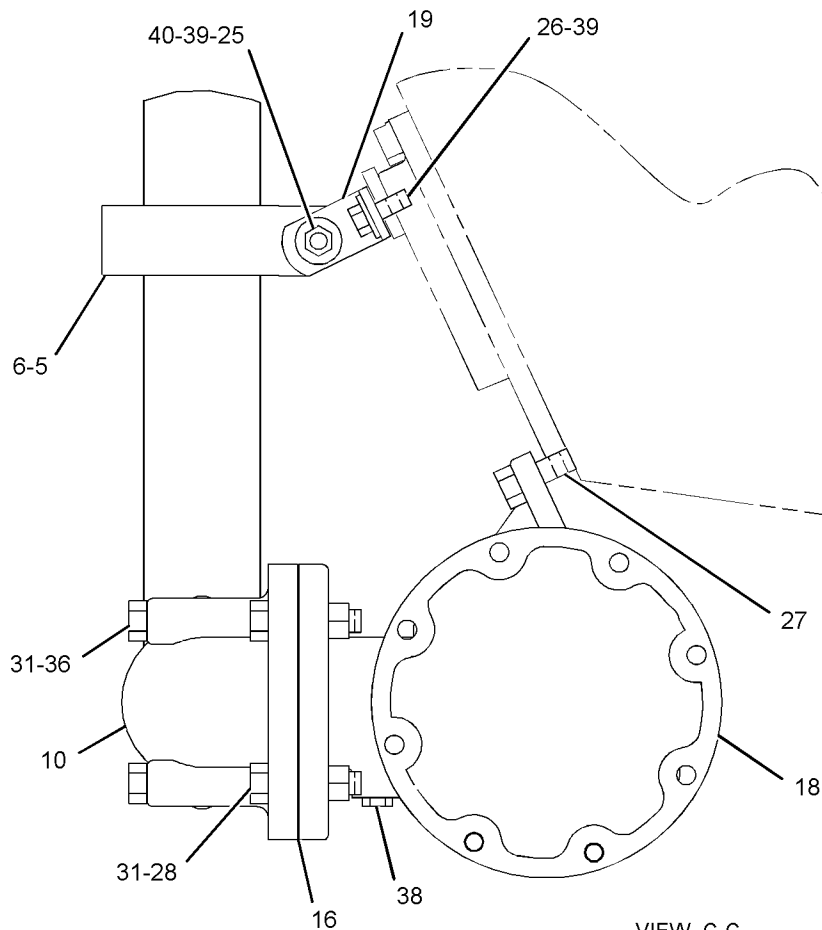
COOLING SYSTEM

283-5641 LINES GP-WATER (contd.)

i02476383



VIEW D-D



VIEW C-C

GRAPHIC #3

<END>

g01279448

COOLING SYSTEM

284-0626 LINES GP-WATER-AFTERCOOLER, JACKET WATER S/N: ZBA472-UP

SMCS-1355, 1380, 1393

i02810703

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	1B-4971	3	SPACER (0.406X1X1-IN THK)	
	2	2	2W-3146	16	FLANGE	
	3	1	3P-6061	1	GASKET	
	4	3, 4	4B-8407	2	GASKET-COPPER	
	5	4	4P-3897	4	MANIFOLD (INTERMEDIATE)	
	6	3, 4	4W-0530	4	RING-RETAINING	
	7	3, 4	4W-0531	8	RETAINER	
	8	3	6H-6698	2	COVER	
	9	1, 2, 4	6V-1581	8	CLIP (SLOT)	
	10	1, 2, 4	6V-1582	8	CLIP (TAB)	
	11	3	6V-4356	1	CLIP (SLOT)	
	12	3	6V-4357	1	CLIP (TAB)	
	13	3	7N-3297	1	COVER	
	14	3	7N-3368	1	GASKET	
	15	4	7N-4932	1	GASKET	
	16	3	7N-4940	1	BRACKET	
	17	3	7N-4944	1	ELBOW	
	18	3	7N-4945	1	GASKET	
	19	4	8N-1268	13	BRACKET	
	20	3	8N-3639	2	RETAINER	
	21	3	8N-3640	1	RING-RETAINING	
	22	2	8N-7639	16	ELBOW	
	23	2	8T-6766	1	PLUG-PIPE	
	24	3, 4	9M-4202	2	PLUG-DRAIN (OIL COOLER)	
	25	1, 2	9S-9635	3	JOINT AS-TUBE	
					(EACH INCLUDES)	
		1, 2	9X-7523	2	SEAL	
	26	2	9Y-4090	1	HOUSING-REGULATOR	
	27	4	9Y-6884	1	ELBOW-WATER PUMP	
	28	2	9Y-6885	1	TUBE	
	29	3	9Y-6886	1	BRACKET	
	30	3	9Y-6887	1	ELBOW-OIL COOLER	
	31	2	9Y-6889	1	TUBE	
	32	2	9Y-6890	1	BRACKET	
	33	4	9Y-6891	1	BRACKET	
	34	3	9Y-6892	1	ELBOW-OIL COOLER	
	35	3	9Y-6893	2	GASKET	
	36	3	9Y-6894	1	ADAPTER-OIL COOLER	
	37	3	9Y-6895	1	ADAPTER-OIL COOLER	
	38	1	9Y-8263	1	ELBOW	
	39	4	111-8276	1	MANIFOLD (REAR, LH)	
	40	4	111-8277	1	MANIFOLD (REAR, RH)	
	41	4	122-8856	2	GASKET	
	42	4	136-6216	2	BRACKET	
	43	1	153-9963	4	RING	
	44	4	154-1616	1	MANIFOLD (FRONT, LH)	
	45	4	154-1617	1	MANIFOLD (FRONT, RH)	
	46	1	157-1435	8	CLAMP	
	47	1	157-1437	8	BRACKET	
	48	3	179-2960	16	SEAL-INTEGRAL	
	49	1	197-3100	2	TUBE	
	50	4	198-6067	6	SEAL-INTEGRAL	
	51	2	204-9598	16	SEAL-INTEGRAL	
	52	2	205-7928	1	TUBE AS	
	53	2	221-7853	1	TUBE	
	54	1	221-7855	1	TUBE	
	55	3	230-1072	2	GASKET	

COOLING SYSTEM

284-0626 LINES GP-WATER (contd.)

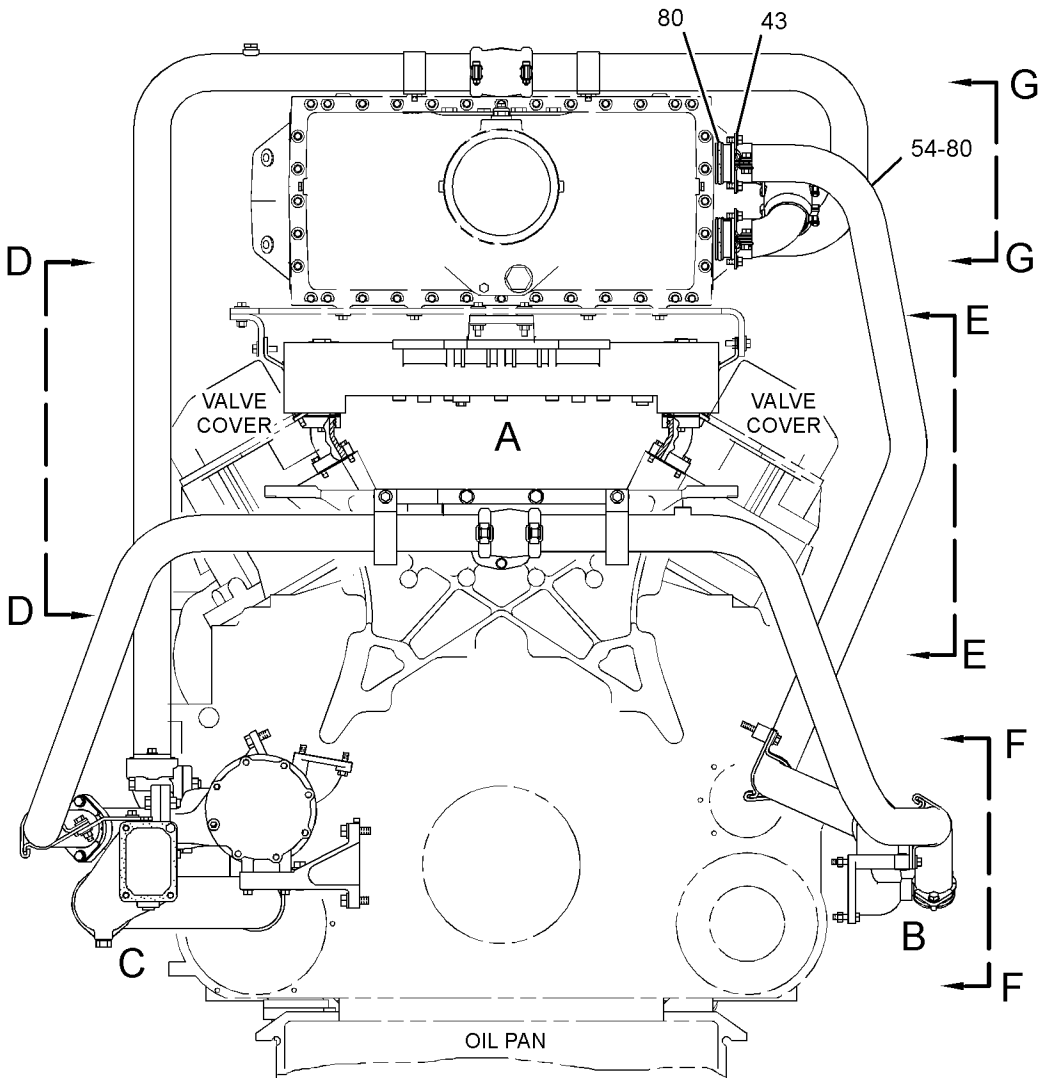
i02810703

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	56	2	283-1619	1	TUBE AS						
	57	1	0L-1143	2	BOLT (3/8-16X2.5-IN)						
	58	1	0S-0509	16	BOLT (3/8-16X0.75-IN)						
	59	3	0S-1571	2	BOLT (3/8-16X1.75-IN)						
	60	3	0S-1585	3	BOLT (1/2-13X1.5-IN)						
	61	3	0S-1588	2	BOLT (3/8-16X1.25-IN)						
	62	2,4	0S-1591	5	BOLT (3/8-16X1.5-IN)						
	63	1,3,4	0S-1594	64	BOLT (3/8-16X1-IN)						
	64	2,3	0S-1595	5	BOLT (1/2-13X1.25-IN)						
	65	4	0S-1618	30	BOLT (5/16-18X1-IN)						
	66	4	0T-0055	1	BOLT (3/8-16X4.25-IN)						
	67	3	0T-0065	2	BOLT (3/8-16X3.5-IN)						
	68	3	1A-1460	6	BOLT (1/2-13X2-IN)						
	69	2	1B-7182	64	BOLT (5/16-18X1.25-IN)						
	70	3	1F-7958	9	NUT-FULL (1/2-13-THD)						
	71	4	2B-2695	30	BOLT (5/16-18X0.875-IN)						
	72	4	1D-4706	1	BOLT (3/8-16X6-IN)						
	73	1,3,4	5M-2894	43	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	74	2,3	5P-8245	7	WASHER-HARD (13.5X25.5X3-MM THK)						
	75	2	6V-5066	2	SEAL-O-RING						
	76	4	6V-6609	1	SEAL-O-RING						
	77	2	6V-9027	1	SEAL-O-RING						
	78	2	6V-9769	16	SEAL-O-RING						
	79	3	8S-9089	2	BOLT (1/2-13X4.5-IN)						
	80	1,2,4	8T-1919	8	SEAL-O-RING						
	81	2,3	8T-6761	3	PLUG-PIPE						
	82	2,4	8T-6762	7	PLUG-PIPE						
	83	2,3,4	8T-6765	6	PLUG-PIPE						
	84	4	9M-1974	60	WASHER-HARD (8.8X16X2-MM THK)						
	85	2	9S-4182	1	PLUG-O-RING						
	86	4	9S-4185	1	PLUG-O-RING						
	87	1,2,4	9S-8752	15	NUT-FULL (3/8-16-THD)						
	88	1,2,4	9X-6458	20	WASHER-HARD (10.2X22.5X3-MM THK)						

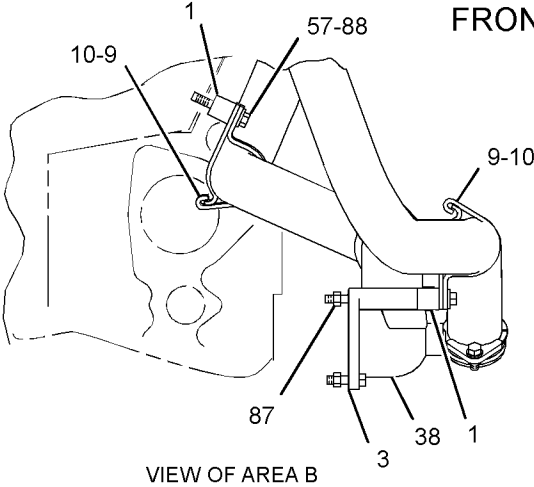
COOLING SYSTEM

284-0626 LINES GP-WATER (contd.)

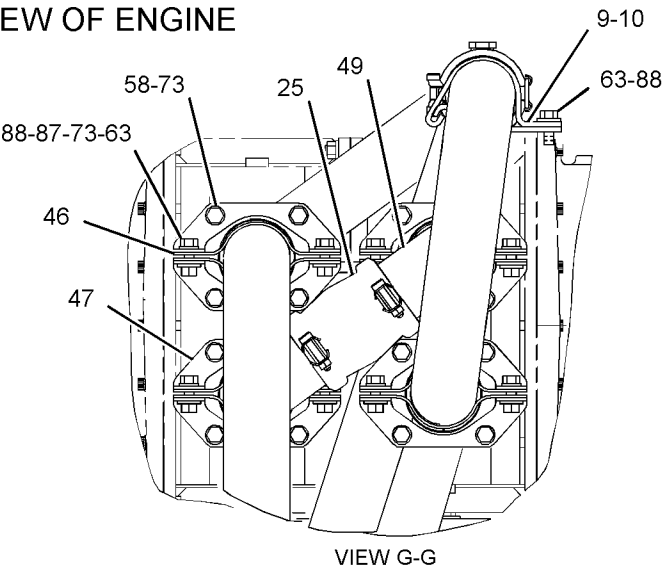
i02810703



FRONT VIEW OF ENGINE



VIEW OF AREA B



VIEW G-G

REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS.

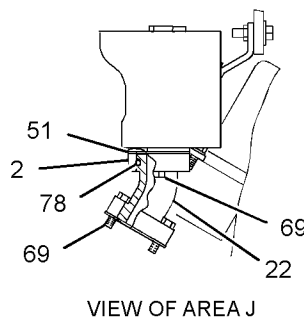
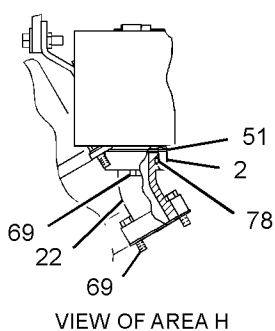
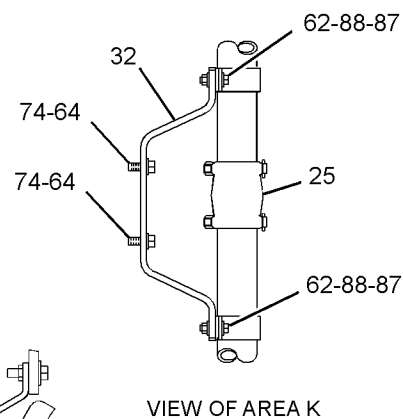
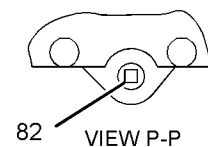
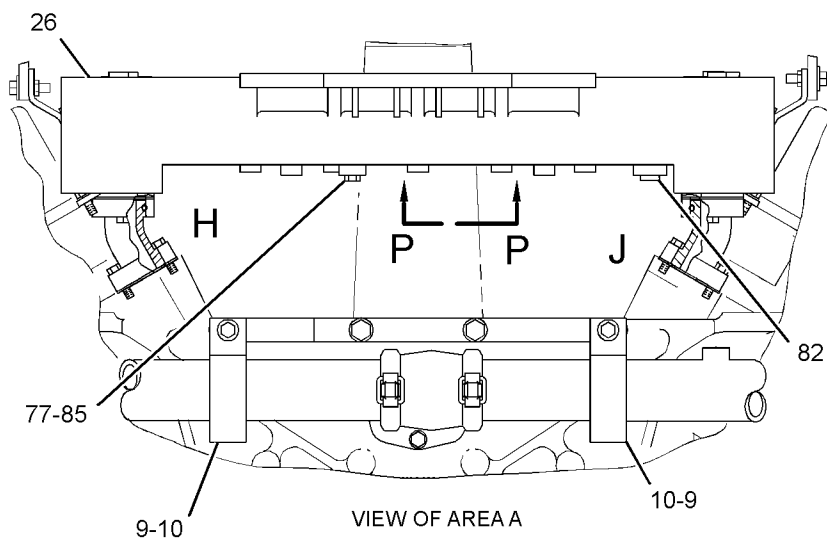
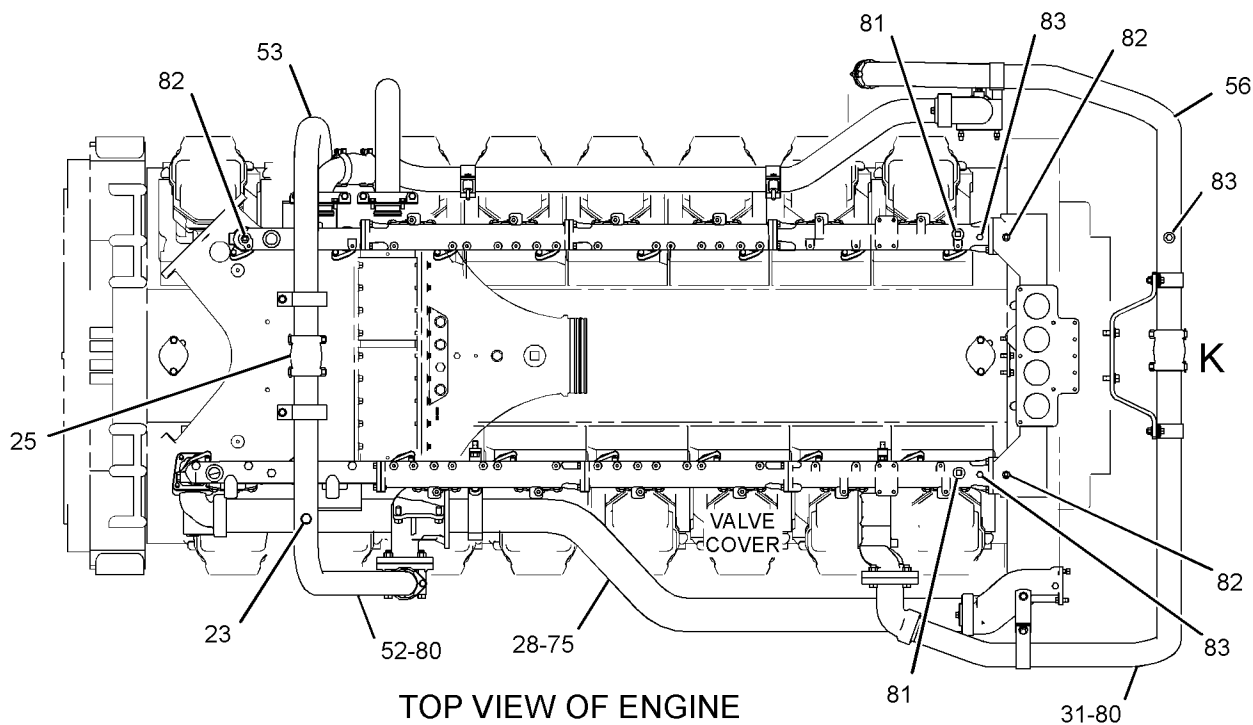
GRAPHIC #1

g01376507

COOLING SYSTEM

284-0626 LINES GP-WATER (contd.)

i02810703



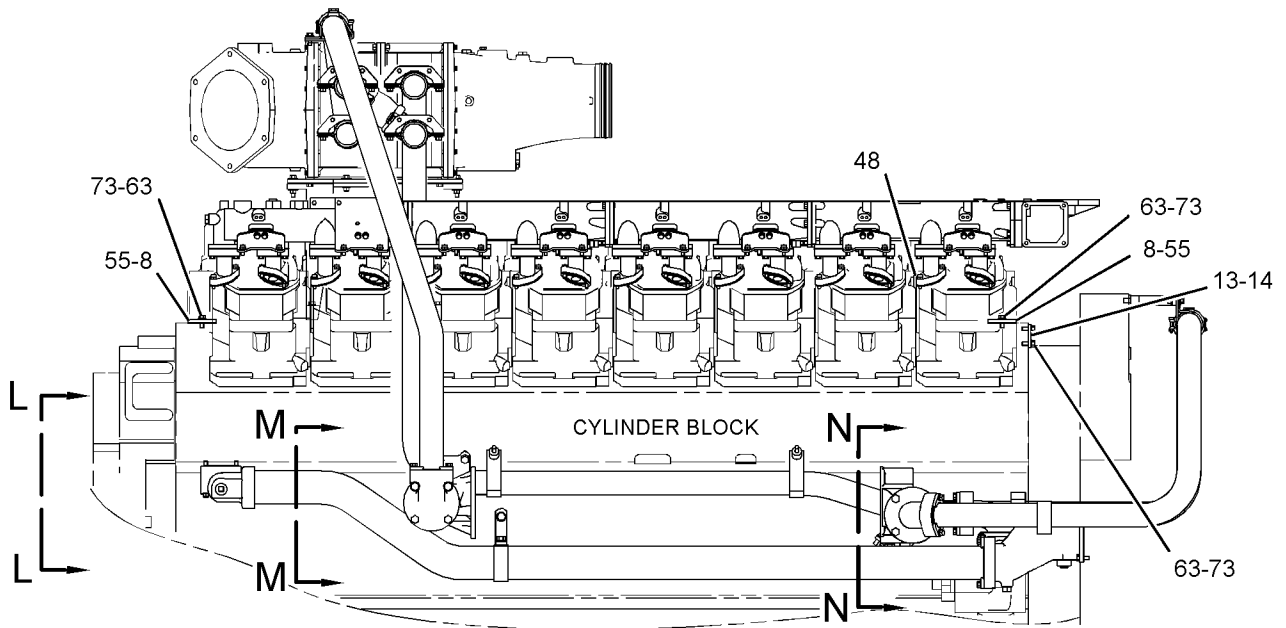
GRAPHIC #2

g01376515

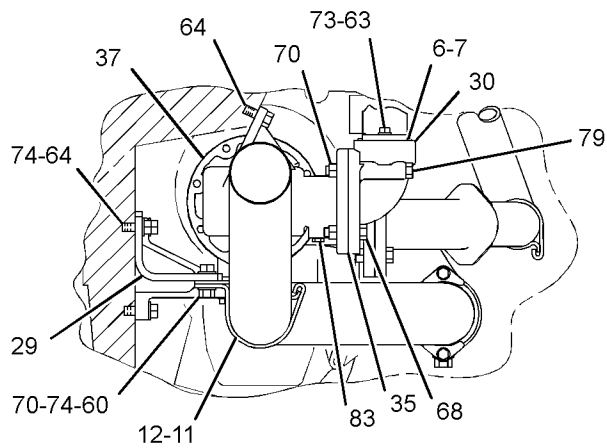
COOLING SYSTEM

284-0626 LINES GP-WATER (contd.)

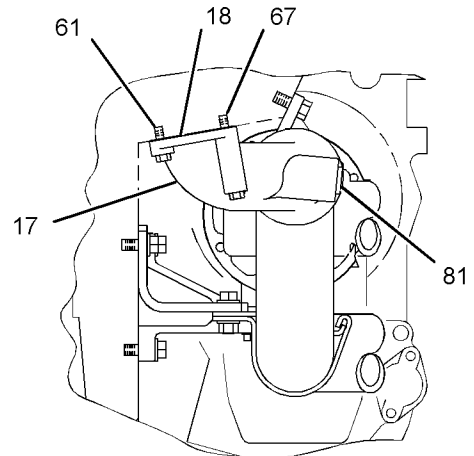
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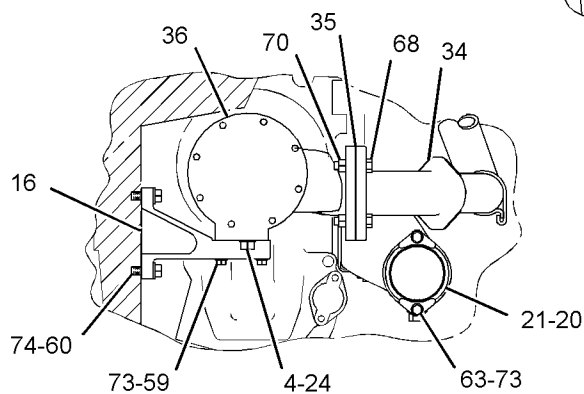
RIGHT SIDE VIEW OF ENGINE



SECTION M-M



VIEW L-L



SECTION N-N

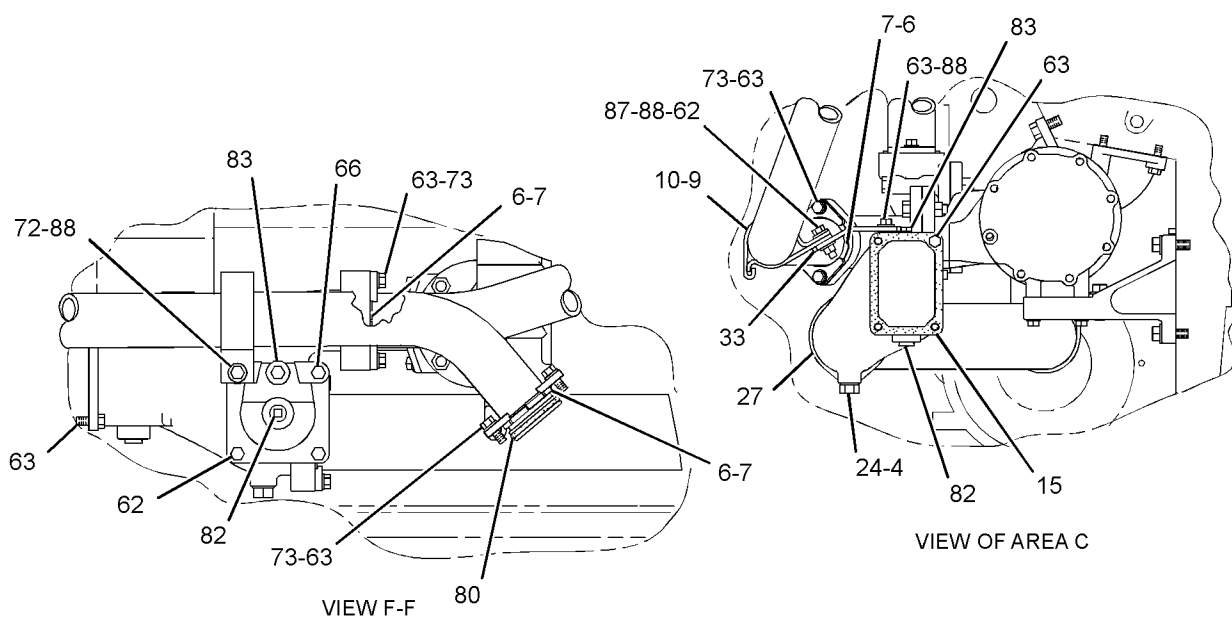
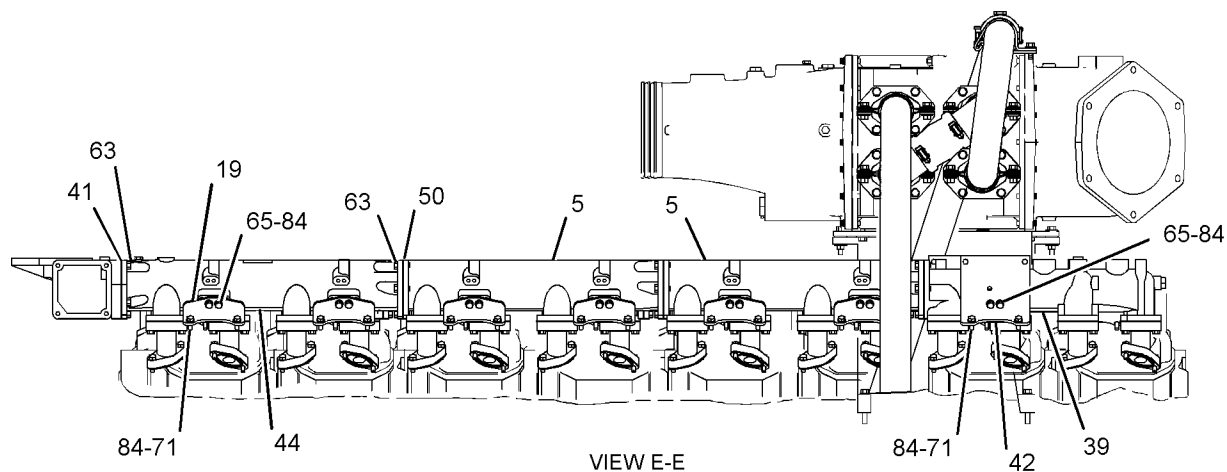
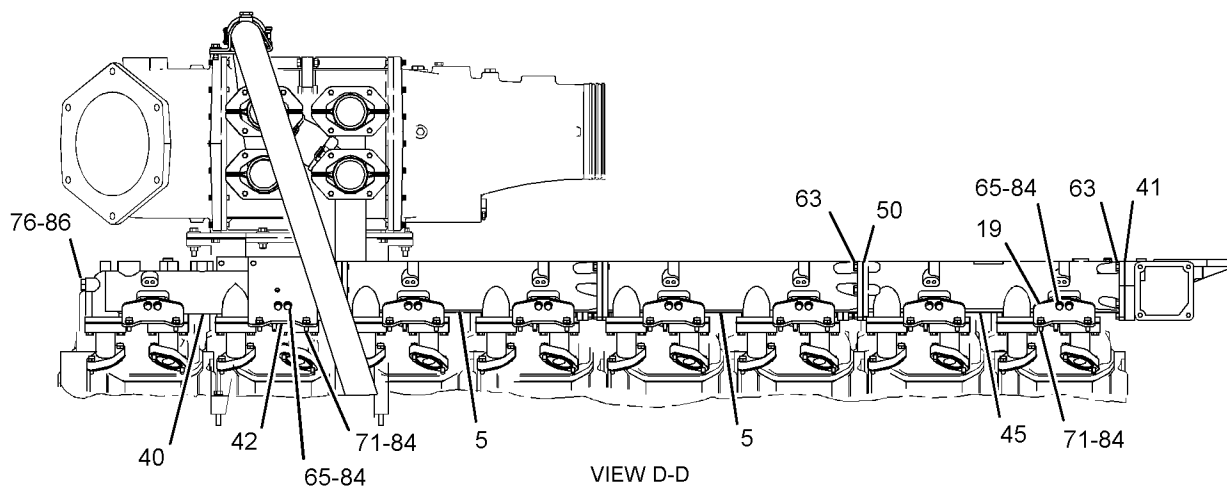
GRAPHIC #3

g01376510

COOLING SYSTEM

284-0626 LINES GP-WATER (contd.)

i02810703



GRAPHIC #4

<END>

g01376512

COOLING SYSTEM

1W-9554 PUMP GP-AUXILIARY WATER

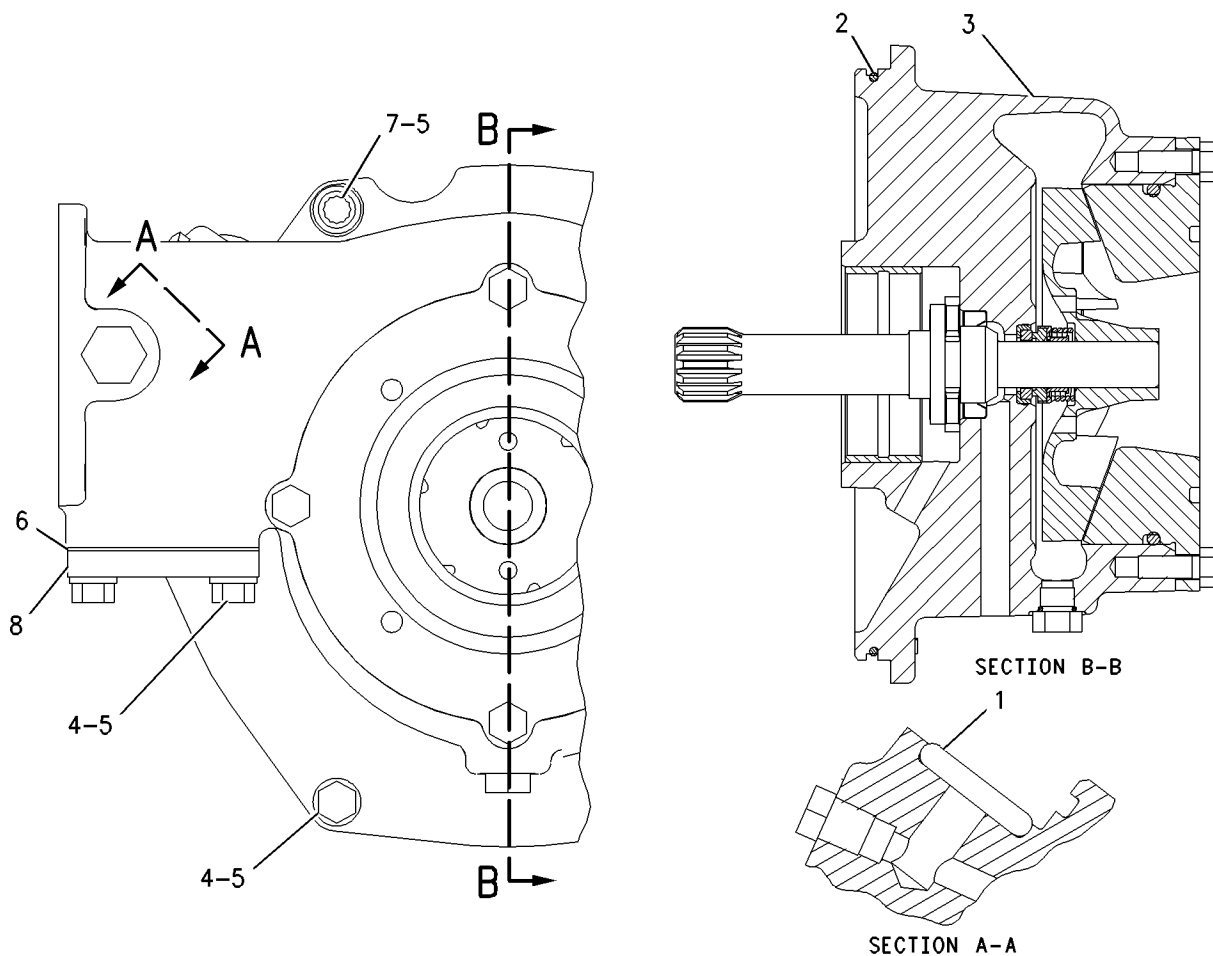
S/N: ZBA1-540

SMCS-1371

i02593761

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3B-8453	1	SEAL-O-RING						
	2	1	235-3546	1	SEAL-O-RING						
CYR	3	1	212-8169	1	PUMP GP-AUXILIARY WATER						353
	4	1	0S-1594	7	BOLT (3/8-16X1-IN)						
	5	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	6	1	5N-1940	1	GASKET						
	7	1	1T-0765	1	BOLT (3/8-16X1-IN)						
	8	1	5N-1939	1	COVER						

C-CHANGE FROM PREVIOUS TYPE
R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00922904

COOLING SYSTEM

1W-9554 PUMP GP-AUXILIARY WATER

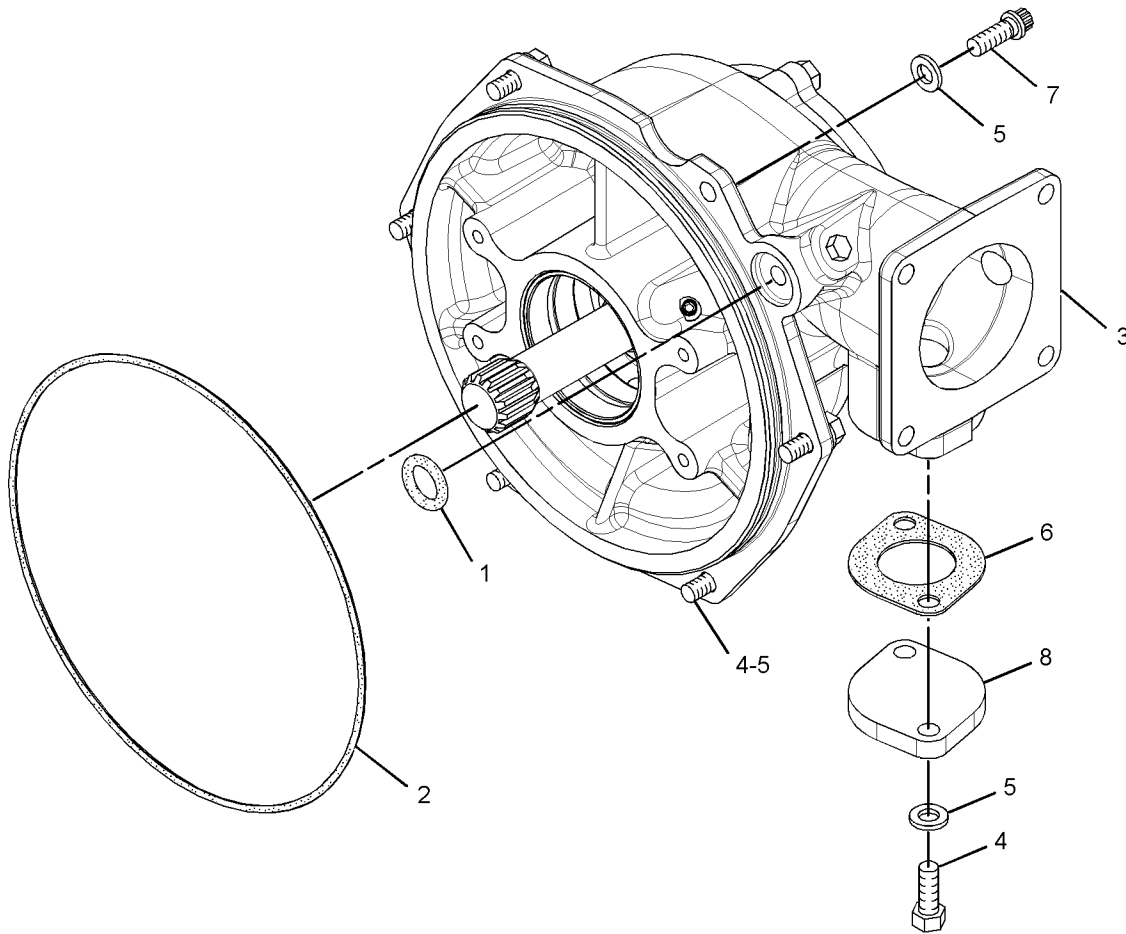
S/N: ZBA1-UP

SMCS-1371

i02690952

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	3B-8453	1	SEAL-O-RING	
	2	1	235-3546	1	SEAL-O-RING	
CYR	3	1	291-4313	1	PUMP GP-AUXILIARY WATER	357
	4	1	0S-1594	7	BOLT (3/8-16X1-IN)	
	5	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	6	1	5N-1940	1	GASKET	
	7	1	1T-0765	1	BOLT (3/8-16X1-IN)	
	8	1	5N-1939	1	COVER	

C-CHANGE FROM PREVIOUS TYPE
R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01356061

COOLING SYSTEM

9Y-8175 PUMP GP-AUXILIARY WATER

S/N: ZBA1-UP

PART OF 120-4107 CONVERSION AR

ALSO AN ATTACHMENT

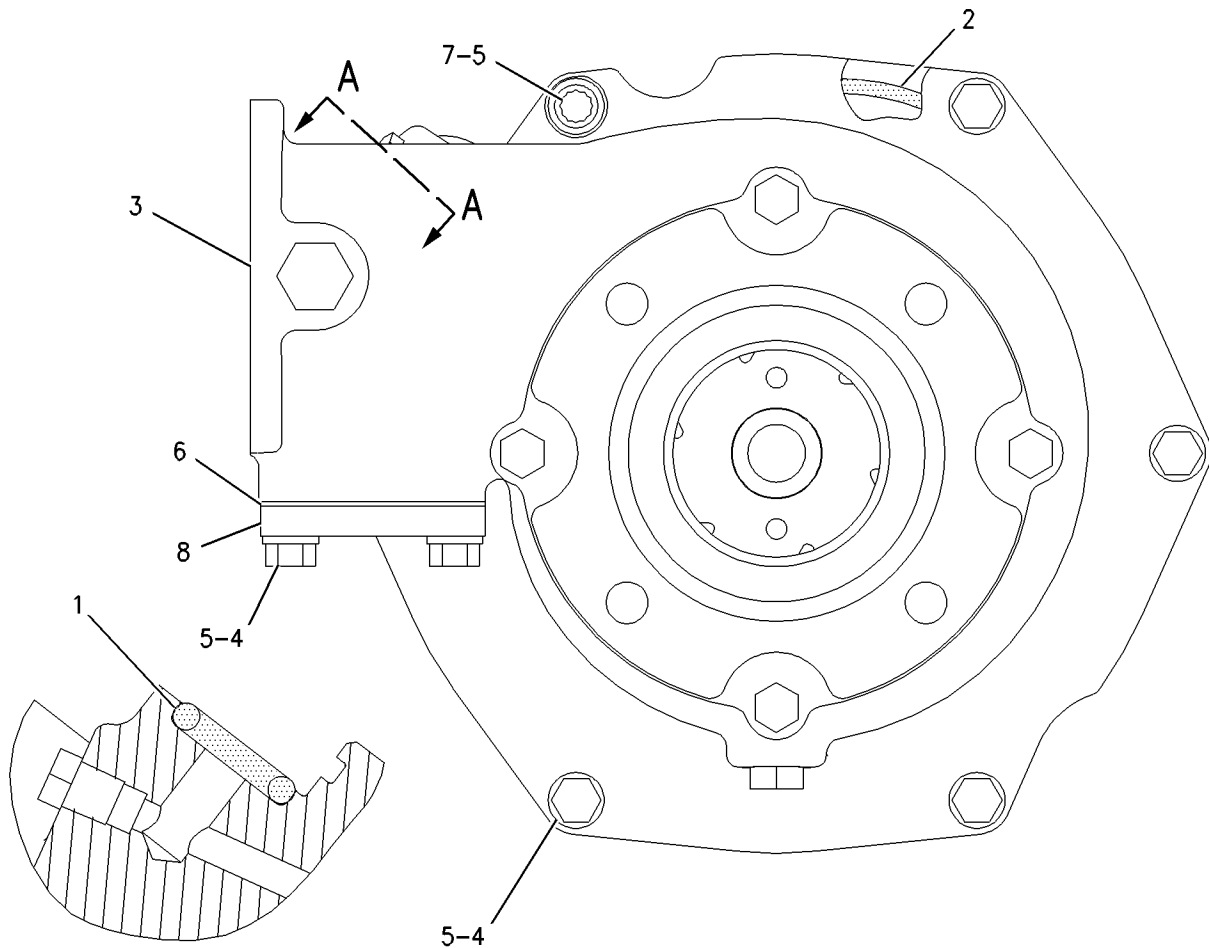
TYPE 1

SMCS-1371

i02593795

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	3B-8453	1	SEAL-O-RING	
	2	1	235-3546	1	SEAL-O-RING	
CYR	3	1	212-8166	1	PUMP GP-AUXILIARY WATER	351
	4	1	0S-1594	7	BOLT (3/8-16X1-IN)	
	5	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	6	1	5N-1940	1	GASKET	
	7	1	1T-0765	1	BOLT (3/8-16X1-IN)	
	8	1	5N-1939	1	COVER	

C- CHANGE FROM PREVIOUS TYPE
R- REMFG PART MAY BE AVAILABLE
Y- SEPARATE ILLUSTRATION



SECTION A-A

GRAPHIC #1

<END>

g00912687

COOLING SYSTEM

9Y-8175 PUMP GP-AUXILIARY WATER

S/N: ZBA1-UP

PART OF 120-4107 CONVERSION AR

ALSO AN ATTACHMENT

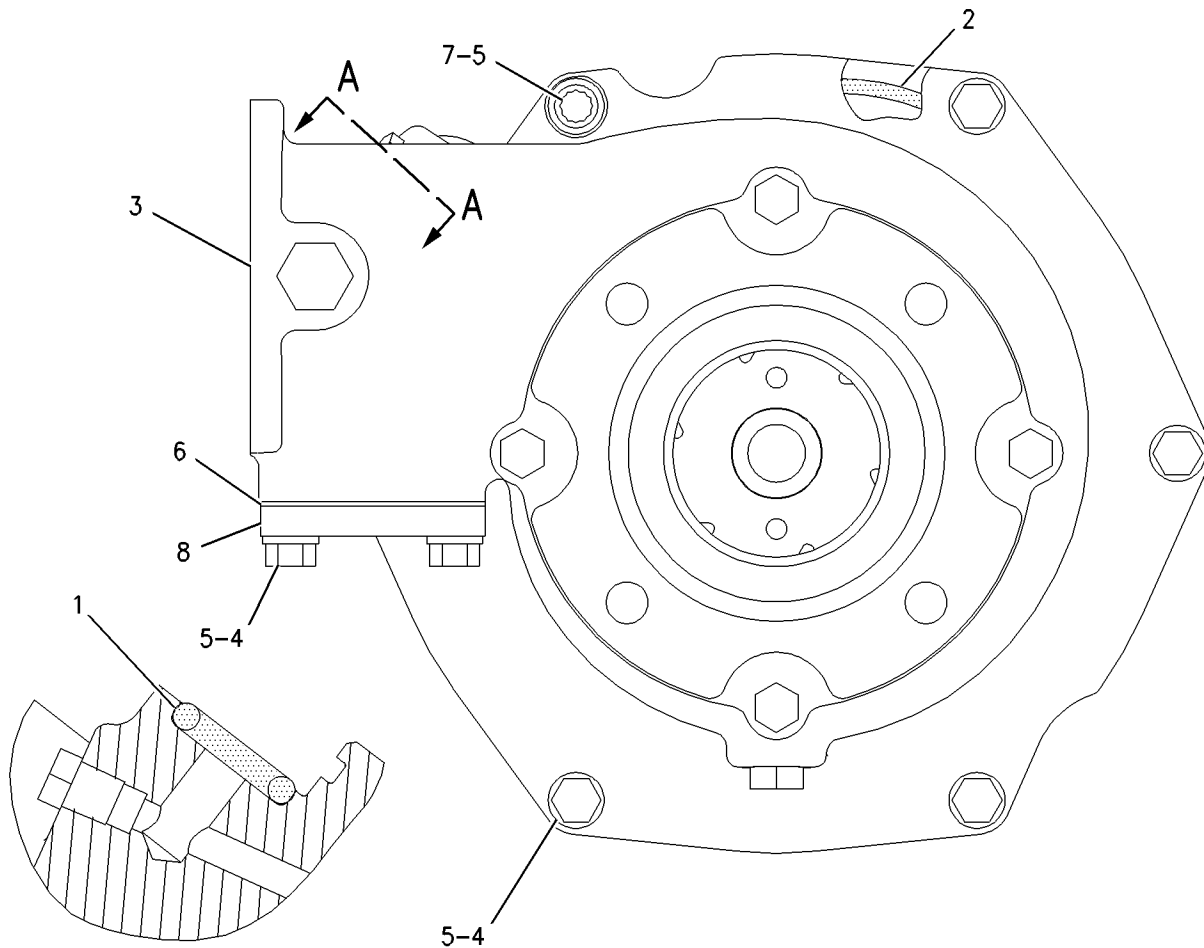
TYPE 2

SMCS-1371

i02640413

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	3B-8453	1	SEAL-O-RING	
	2	1	235-3546	1	SEAL-O-RING	
CYR	3	1	291-4311	1	PUMP GP-AUXILIARY WATER	355
	4	1	0S-1594	7	BOLT (3/8-16X1-IN)	
	5	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	6	1	5N-1940	1	GASKET	
	7	1	1T-0765	1	BOLT (3/8-16X1-IN)	
	8	1	5N-1939	1	COVER	

C- CHANGE FROM PREVIOUS TYPE
R- REMFG PART MAY BE AVAILABLE
Y- SEPARATE ILLUSTRATION



SECTION A-A

GRAPHIC #1

<END>

g00912687

COOLING SYSTEM

212-8166 PUMP GP-AUXILIARY WATER*R

S/N: ZBA1-UP

PART OF 9Y-8175 PUMP GP-AUXILIARY WATER
ALSO AN ATTACHMENT

SMCS-1371

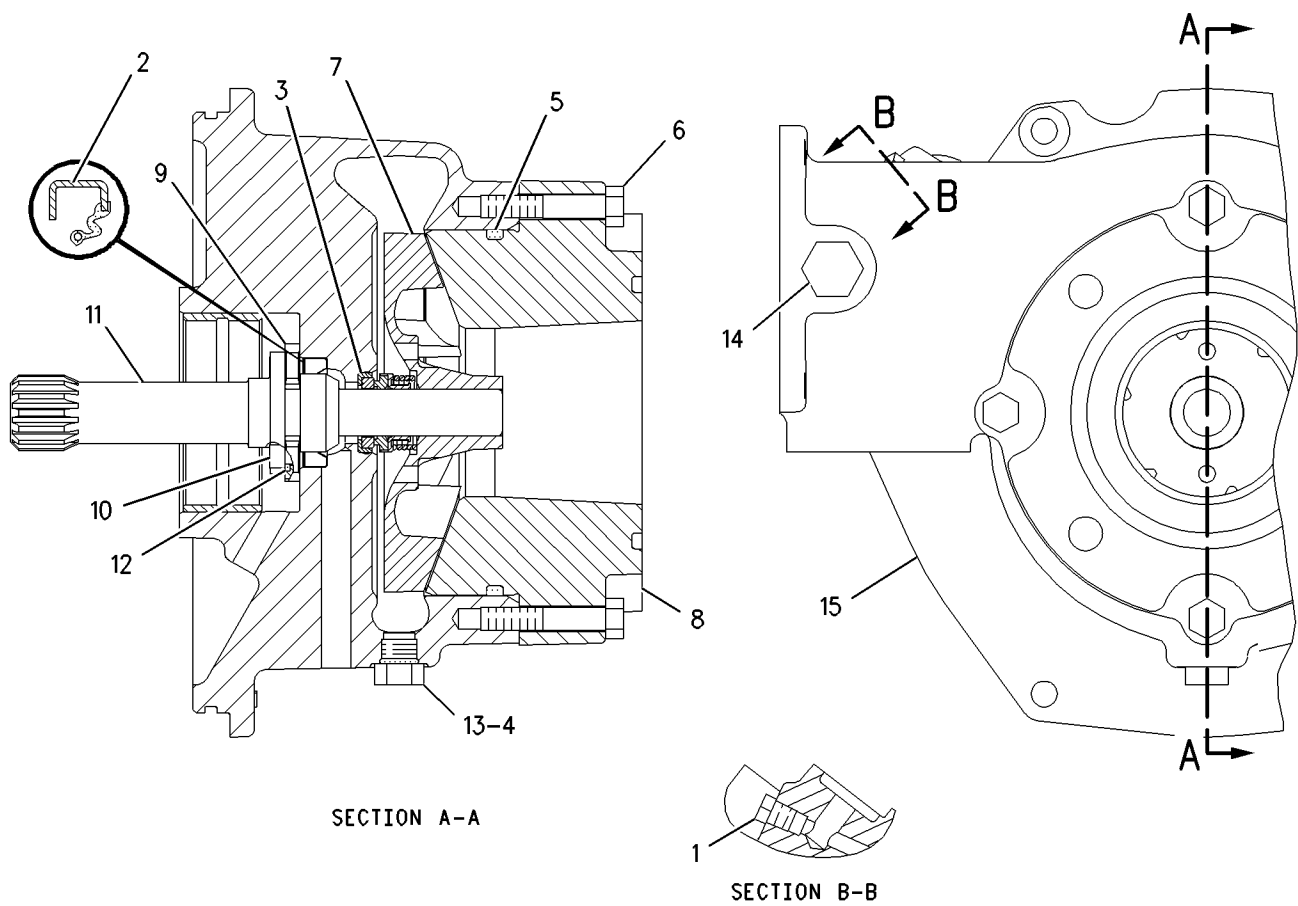
i02495263

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-6764	1	PLUG-PIPE						
J	2	1	9X-4594	1	SEAL-LIP TYPE						
J	3	1	262-4378	1	SEAL AS-WATER PUMP						
	4	1	3J-1907	1	SEAL-O-RING						
	5	1	9M-3786	1	SEAL-O-RING						
	6	1	0S-1590	4	BOLT (3/8-16X2-IN)						
J	7	1	212-8183	1	IMPELLER						
	8	1	9Y-8067	1	ADAPTER						
J	9	1	5N-4383	2	WASHER-THRUST						
J	10	1	8H-3128	4	BOLT-SOCKET HEAD (1/4-20X0.625-IN)						
J	11	1	212-8179	1	SHAFT						
BJ	12	1	8M-2933	4	SHIM-CARRIER (0.078-IN THK)						
	13	1	9S-4191	1	PLUG-O-RING						
	14	1	7W-6492	1	PLUG-PIPE						
	15	1	7E-9780	1	HOUSING AS						
J		1	127-5400	1	BEARING-SLEEVE						
AVAILABLE REPAIR KIT(S):											
J			221-9278		KIT-REBUILD (AUXILIARY WATER PUMP)						
B-USE AS REQUIRED											
J-KIT MARKED J INCLUDES PARTS MARKED J											

COOLING SYSTEM

212-8166 PUMP GP-AUXILIARY WATER (contd.)

i02495263



GRAPHIC #1

<END>

g00912893

COOLING SYSTEM

212-8169 PUMP GP-AUXILIARY WATER*R

S/N: ZBA1-540

PART OF 1W-9554 PUMP GP-AUXILIARY WATER

SMCS-1371

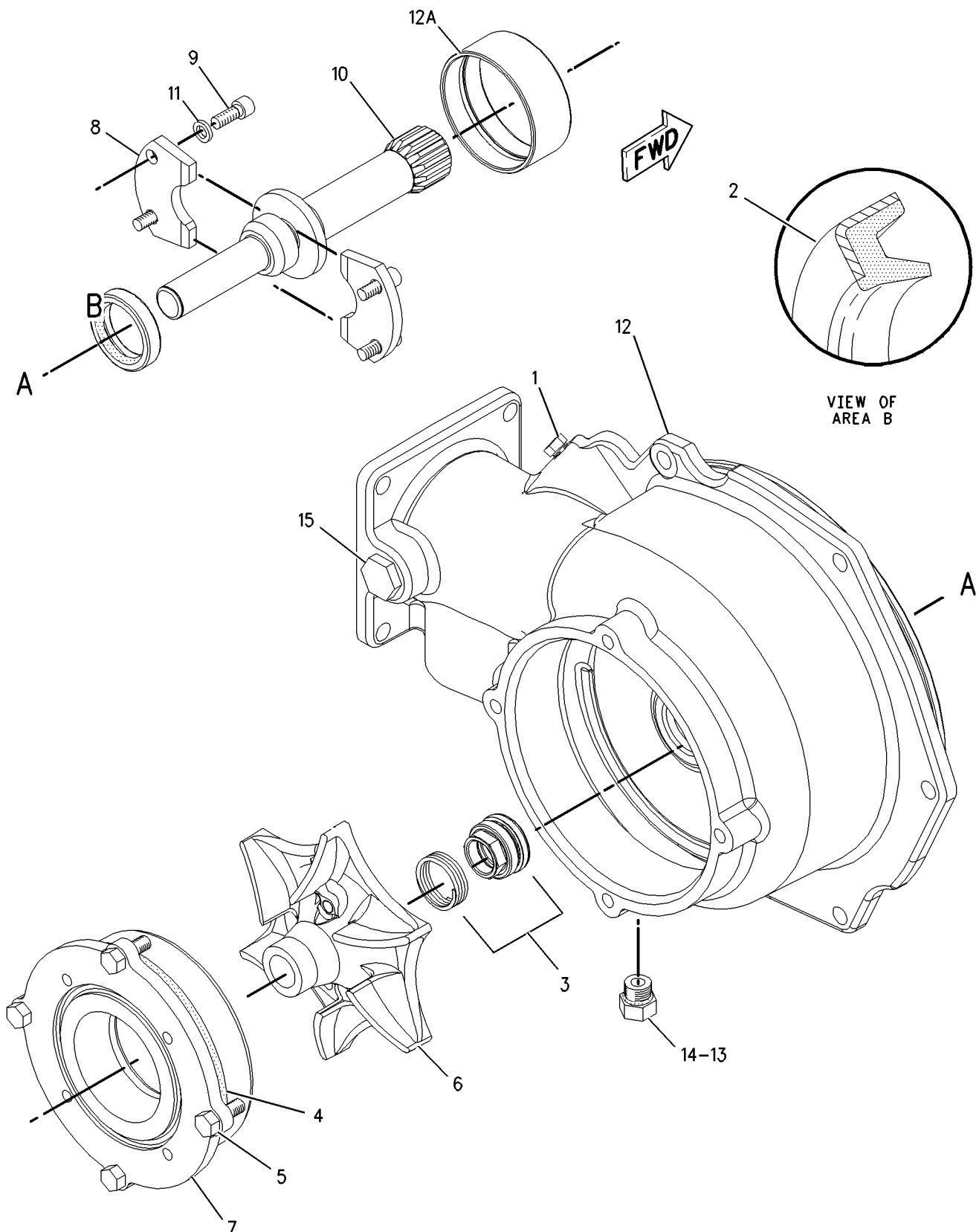
i02526945

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-6764	1	PLUG-PIPE						
	2	1	9X-4594	1	SEAL-LIP TYPE						
	3	1	262-4378	1	SEAL AS-WATER PUMP						
	4	1	9M-3786	1	SEAL-O-RING						
	5	1	0S-1594	4	BOLT (3/8-16X1-IN)						
	6	1	212-8183	1	IMPELLER						
	7	1	5N-2611	1	ADAPTER						
	8	1	5N-4383	2	WASHER-THRUST						
	9	1	8H-3128	4	BOLT-SOCKET HEAD (1/4-20X0.625-IN)						
	10	1	212-8179	1	SHAFT						
B	11	1	8M-2933	4	SHIM-CARRIER (0.078-IN THK)						
	12	1	7E-9780	1	HOUSING AS						
	12A	1	127-5400	1	BEARING-SLEEVE						
B	13	1	3J-1907	1	SEAL-O-RING						
B	14	1	9S-4191	1	PLUG-O-RING						
B	15	1	7W-6492	1	PLUG-PIPE						
B-USE AS REQUIRED											

COOLING SYSTEM

212-8169 PUMP GP-AUXILIARY WATER (contd.)

i02526945



GRAPHIC #1

<END>

g00931703

COOLING SYSTEM

291-4311 PUMP GP-AUXILIARY WATER*R

S/N: ZBA1-UP

PART OF 9Y-8175 PUMP GP-AUXILIARY WATER
ALSO AN ATTACHMENT

SMCS-1371

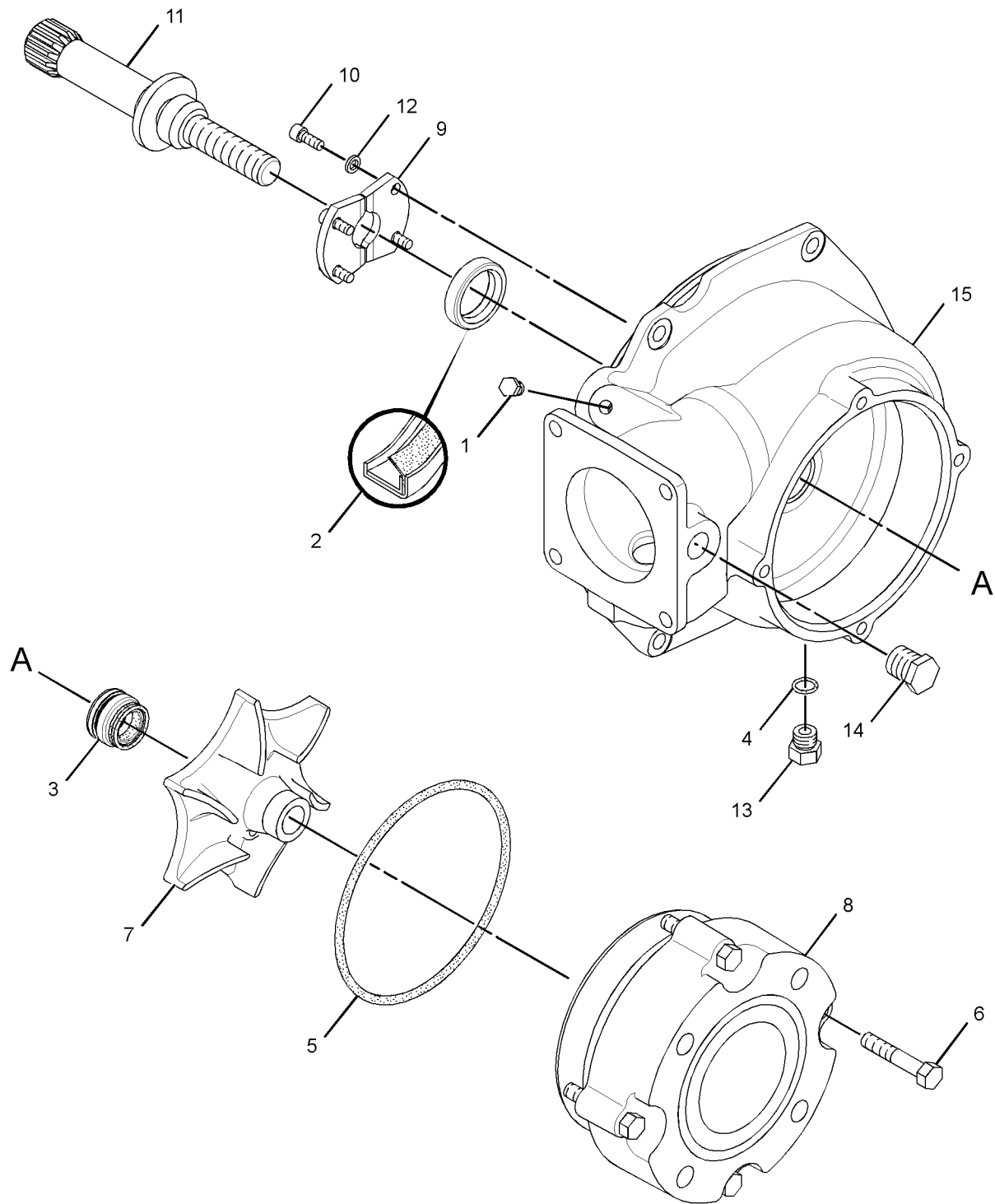
i02567068

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-6764	1	PLUG-PIPE						
	2	1	9X-4594	1	SEAL-LIP TYPE						
	3	1	262-4378	1	SEAL AS-WATER PUMP						
	4	1	3J-1907	1	SEAL-O-RING						
	5	1	9M-3786	1	SEAL-O-RING						
	6	1	0S-1590	4	BOLT (3/8-16X2-IN)						
	7	1	212-8183	1	IMPELLER						
	8	1	9Y-8067	1	ADAPTER						
	9	1	5N-4383	2	WASHER-THRUST						
	10	1	8H-3128	4	BOLT-SOCKET HEAD (1/4-20X0.625-IN)						
	11	1	212-8179	1	SHAFT (14-TEETH)						
	12	1	8M-2933	4	SHIM-CARRIER (0.078-IN THK)						
	13	1	9S-4191	1	PLUG-O-RING						
	14	1	7W-6492	1	PLUG-PIPE						
	15	1	291-4309	1	HOUSING AS						
		1	8T-6759	1	PLUG-PIPE						
		1	127-5400	1	BEARING-SLEEVE						

COOLING SYSTEM

291-4311 PUMP GP-AUXILIARY WATER (contd.)

i02567068



GRAPHIC #1

<END>

g01286255

COOLING SYSTEM

291-4313 PUMP GP-AUXILIARY WATER*R

S/N: ZBA541-UP

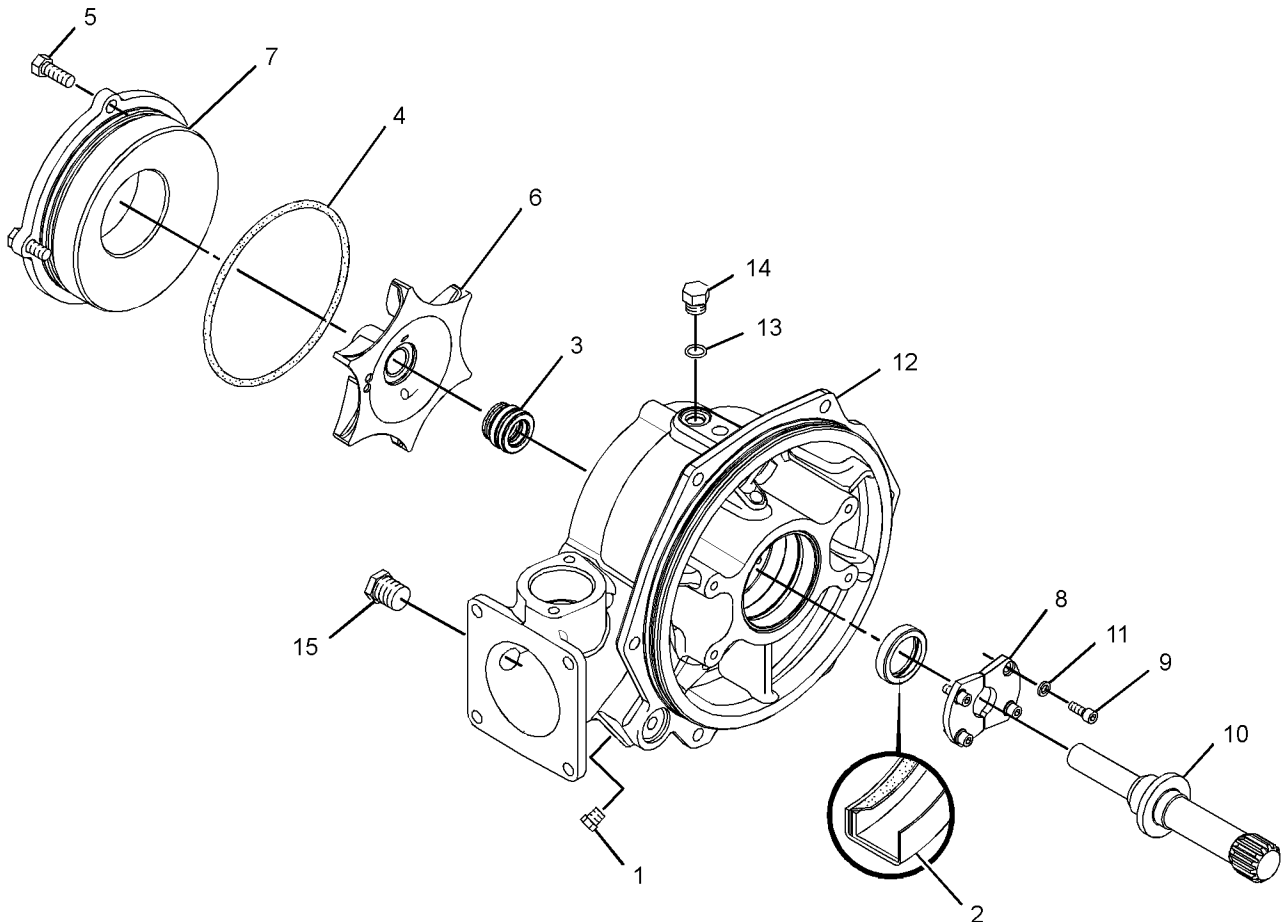
PART OF 1W-9554 PUMP GP-AUXILIARY WATER

SMCS-1371

i02663782

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-6764	1	PLUG-PIPE						
	2	1	9X-4594	1	SEAL-LIP TYPE						
	3	1	262-4378	1	SEAL AS-WATER PUMP						
	4	1	9M-3786	1	SEAL-O-RING						
	5	1	0S-1594	4	BOLT (3/8-16X1-IN)						
	6	1	212-8183	1	IMPELLER						
	7	1	5N-2611	1	ADAPTER						
	8	1	5N-4383	2	WASHER-THRUST						
	9	1	8H-3128	4	BOLT-SOCKET HEAD (1/4-20X0.625-IN)						
	10	1	212-8179	1	SHAFT						
	11	1	8M-2933	4	SHIM-CARRIER (0.078-IN THK)						
	12	1	291-4309	1	HOUSING AS						
		1	8T-6759	1	PLUG-PIPE						
		1	127-5400	1	BEARING-SLEEVE						
B	13	1	3J-1907	1	SEAL-O-RING						
B	14	1	9S-4191	1	PLUG-O-RING						
B	15	1	7W-6492	1	PLUG-PIPE						

B-USE AS REQUIRED



GRAPHIC #1

<END>

g01350536

COOLING SYSTEM

2W-9729 PUMP GP-WATER

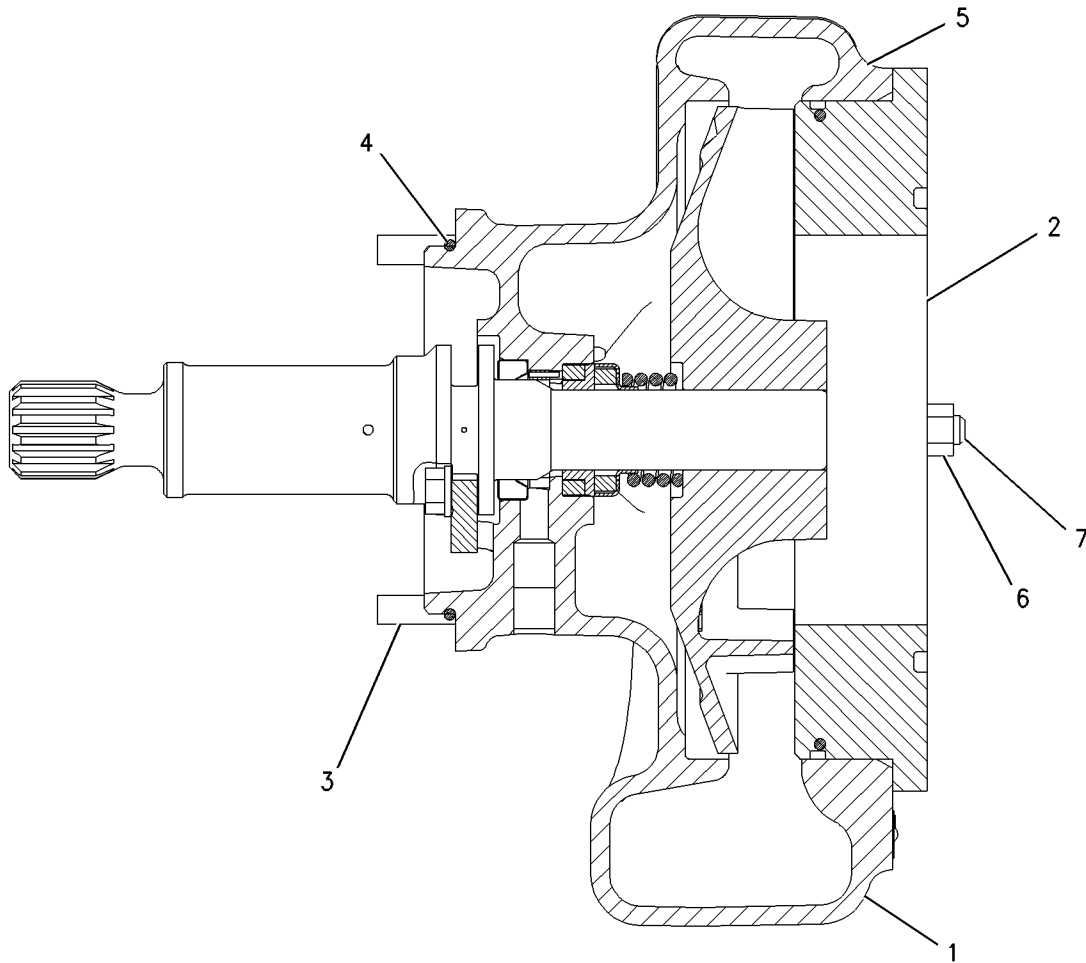
S/N: ZBA1-UP

SMCS-1361

i02220677

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
CYR	1	1	212-8177	1	PUMP GP-WATER						361
	2	1	8N-6423	1	COVER (WATER INLET)						
	3	1	3B-1915	4	BOLT (3/8-16X1.375-IN)						
	4	1	5H-6734	1	SEAL-O-RING						
	5	1	149-5462	1	SEAL-O-RING						
	6	1	9S-8752	3	NUT-FULL (3/8-16-THD)						
	7	1	9M-2151	3	STUD-TAPERLOCK (3/8-16X1.378-IN)						

C-CHANGE FROM PREVIOUS TYPE
R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00898448

COOLING SYSTEM

7E-0011 PUMP GP-WATER

S/N: ZBA1-UP

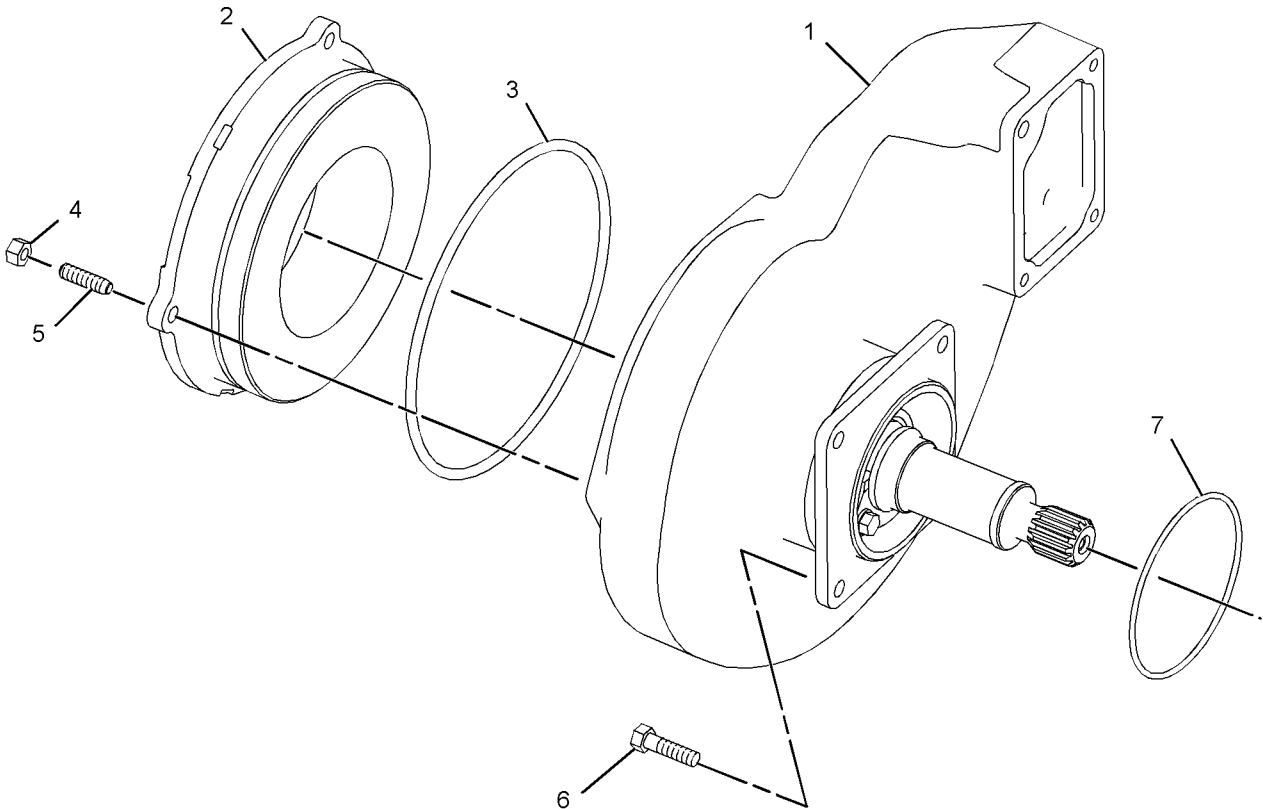
PART OF 120-6124, 129-8220 CONVERSION AR
AN ATTACHMENT

SMCS-1361

i02226415

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
CY	1	1	212-8173	1	PUMP GP-WATER						360
	2	1	7E-0014	1	COVER						
	3	1	149-5462	1	SEAL-O-RING						
	4	1	9S-8752	3	NUT-FULL (3/8-16-THD)						
	5	1	9M-2151	3	STUD-TAPERLOCK (3/8-16X1.378-IN)						
	6	1	3B-1915	4	BOLT (3/8-16X1.375-IN)						
	7	1	5H-6734	1	SEAL-O-RING						

C- CHANGE FROM PREVIOUS TYPE
Y- SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01123195

COOLING SYSTEM

212-8173 PUMP GP-WATER

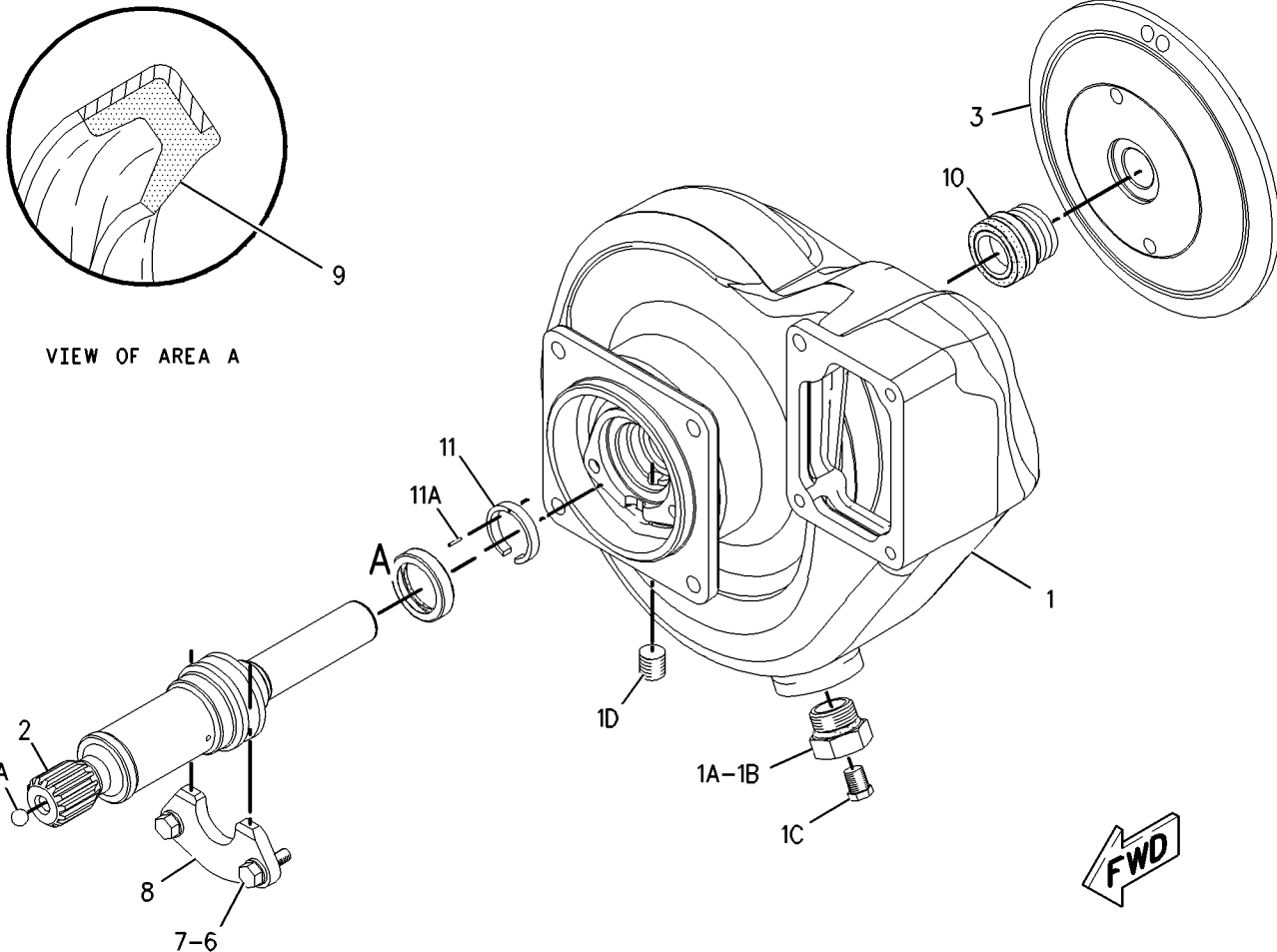
S/N: ZBA1-UP

PART OF 7E-0011 PUMP GP-WATER
AN ATTACHMENT

SMCS-1361

i02572846

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7N-4756	1	HOUSING AS-PUMP						
	1A	1	3D-2824	1	SEAL-O-RING						
	1B	1	7G-8478	1	ADAPTER						
	1C	1	8T-6765	1	PLUG-PIPE						
	1D	1	4N-5834	2	FILTER-BREATHER (WATER PUMP HOUSING)						
	2	1	212-8180	1	SHAFT						
	2A	1	4B-9782	1	BALL						
	3	1	212-8185	1	IMPELLER						
	6	1	0S-1618	2	BOLT (5/16-18X1-IN)						
	7	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						
	8	1	7N-4758	1	WASHER-THRUST						
	9	1	8C-5236	1	SEAL-LIP TYPE						
	10	1	166-4376	1	SEAL GP-WATER PUMP						
	11	1	166-4374	1	RING AS						
	11A	1	1L-5316	1	PIN-SPRING						



GRAPHIC #1

<END>

g00925238

COOLING SYSTEM

212-8177 PUMP GP-WATER*R

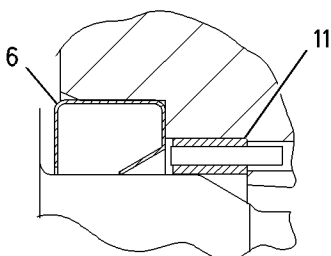
S/N: ZBA1-UP

PART OF 2W-9729 PUMP GP-WATER

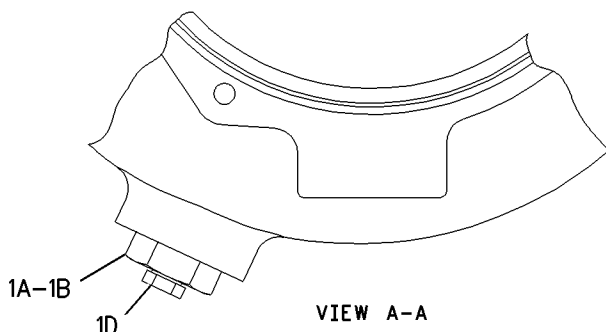
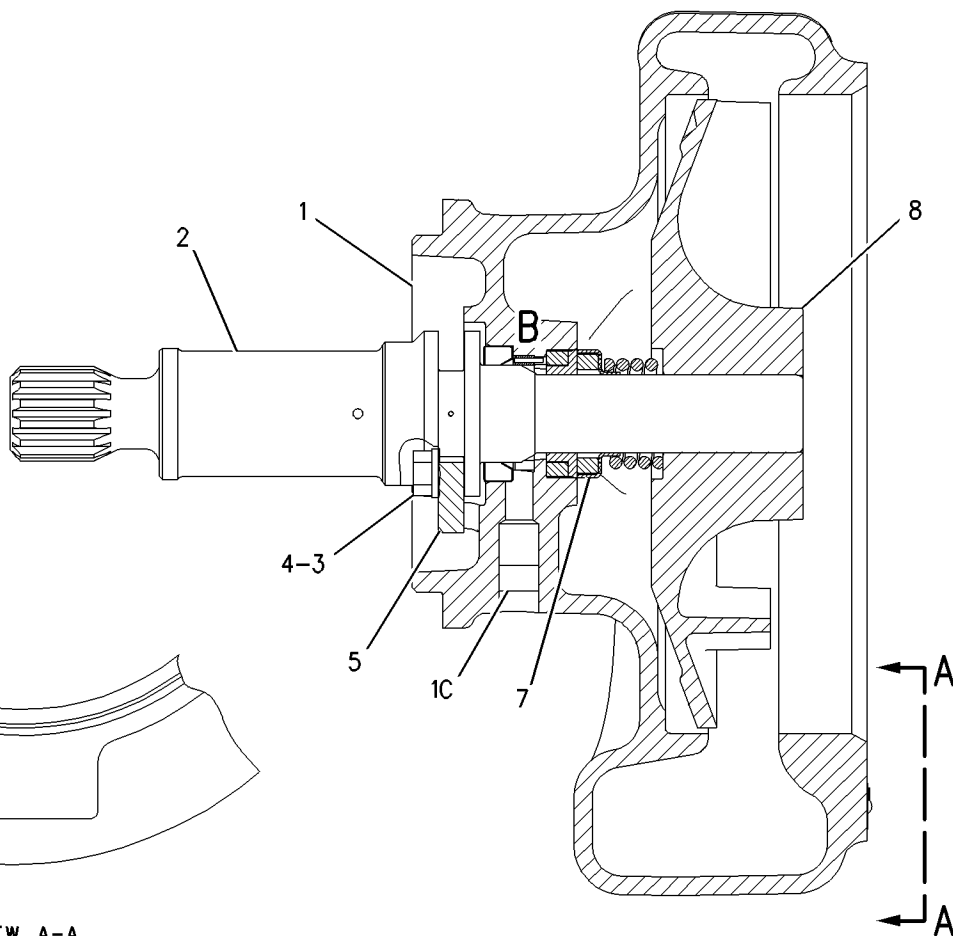
SMCS-1361

i02656735

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7N-4756	1	HOUSING AS-PUMP						
J	1A	1	3D-2824	1	SEAL-O-RING						
	1B	1	7G-8478	1	ADAPTER						
J	1C	1	4N-5834	2	FILTER-BREATHER (WATER PUMP HOUSING)						
	1D	1	8T-6765	1	PLUG-PIPE						
J	2	1	212-8180	1	SHAFT						
J		1	4B-9782	1	BALL						
J	3	1	0S-1618	2	BOLT (5/16-18X1-IN)						
J	4	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						
J	5	1	7N-4758	1	WASHER-THRUST						
J	6	1	8C-5236	1	SEAL-LIP TYPE						
J	7	1	166-4376	1	SEAL GP-WATER PUMP						
J	8	1	212-8184	1	IMPELLER						
J	11	1	166-4374	1	RING AS						
J		1	1L-5316	1	PIN-SPRING						
					AVAILABLE REPAIR KIT(S) :						
J			222-5152		KIT-REBUILD (WATER PUMP)						
J-KIT MARKED J INCLUDES PARTS MARKED J											



VIEW OF AREA B



VIEW A-A

GRAPHIC #1

<END>

g00898430

COOLING SYSTEM

7E-3783 REGULATOR GP-TEMPERATURE-AFTERCOOLER

S/N: ZBA1-329

PART OF 120-4107 CONVERSION AR
AN ATTACHMENT

SMCS-1355

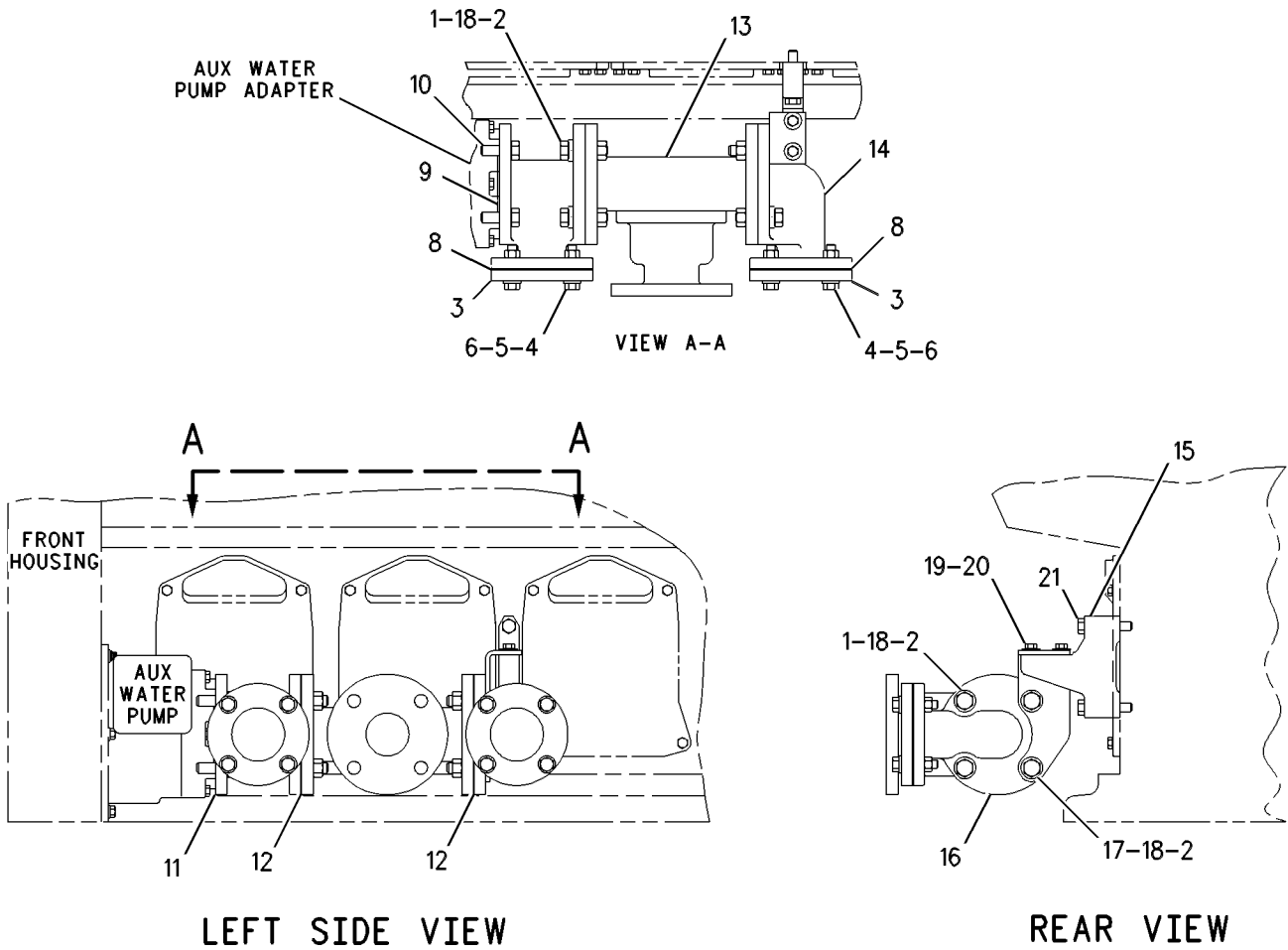
i01728616

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8S-9092	6	BOLT (5/8-11X2.25-IN)						
	2	1	4K-0367	8	NUT-FULL (5/8-11-THD)						
	3	1	2W-5225	2	FLANGE						
	4	1	2B-0947	8	BOLT (1/2-13X2.25-IN)						
	5	1	5P-8245	8	WASHER-HARD (13.5X25.5X3-MM THK)						
	6	1	1F-7958	8	NUT-FULL (1/2-13-THD)						
	8	1	9Y-6893	2	GASKET						
	9	1	4F-7387	1	SEAL-O-RING						
	10	1	5B-0841	4	BOLT (5/8-18X1.75-IN)						
	11	1	7E-3471	1	TEE-VALVE & PUMP						
	12	1	9Y-8069	2	GASKET						
Y	13	1	7E-4711	1	VALVE GP-THERMOSTATIC						385
	14	1	7E-3472	1	ELBOW (OUTLET)						
	15	1	1N-3872	1	SUPPORT						
	16	1	7E-3473	1	BRACKET						
	17	1	1A-8537	2	BOLT (5/8-11X2.75-IN)						
	18	1	5P-8247	16	WASHER-HARD (17X32X3.5-MM THK)						
	19	1	0L-1351	2	BOLT (3/8-16X0.875-IN)						
	20	1	9L-9132	2	WASHER (10.2X25.5X2.5-MM THK)						
	21	1	1A-5822	2	BOLT (1/2-13X2.75-IN)						
Y-SEPARATE ILLUSTRATION											

COOLING SYSTEM

7E-3783 REGULATOR GP-TEMPERATURE (contd.)

i01728616



GRAPHIC #1

<END>

g00593422

COOLING SYSTEM

7E-4802 REGULATOR GP-TEMPERATURE-AFTERCOOLER

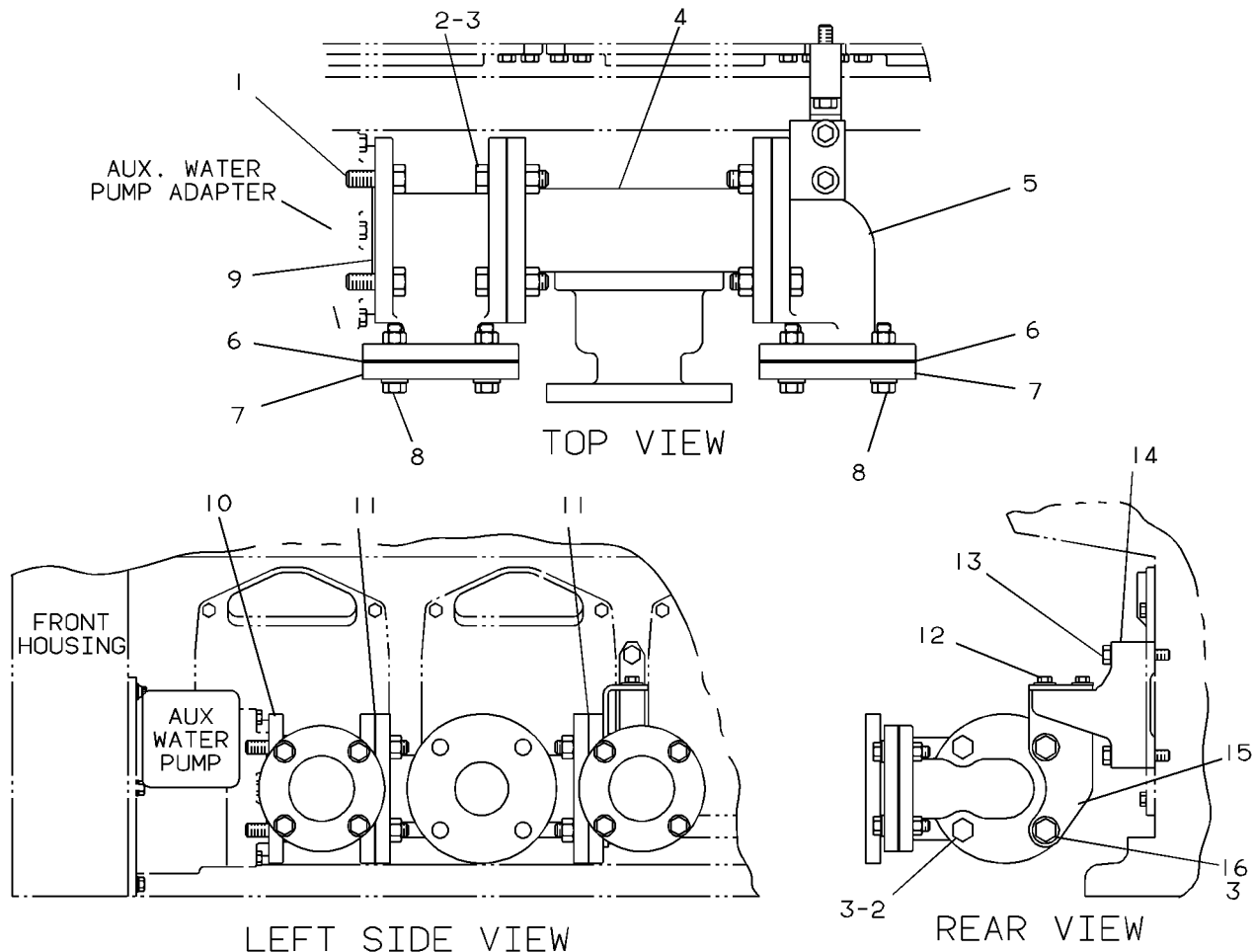
S/N: ZBA1-204

SMCS-1355

i00661576

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5B-0841	4	BOLT (5/8-18X1.75-IN)						
	2	1	8S-9092	6	BOLT (5/8-11X2.25-IN)						
	3	1	4K-0367	8	NUT-FULL (5/8-11-THD)						
Y	4	1	9Y-8070	1	VALVE GP-THERMOSTATIC						388
	5	1	7E-3472	1	ELBOW (OUTLET)						
	6	1	9Y-6893	2	GASKET						
	7	1	2W-5225	2	FLANGE						
	8	1	2B-0947	8	BOLT (1/2-13X2.25-IN)						
		1	5P-8245	8	WASHER-HARD (13.5X25.5X3-MM THK)						
		1	1D-4719	8	NUT-FULL (1/2-13-THD)						
	9	1	4F-7387	1	SEAL-O-RING						
	10	1	7E-3471	1	TEE-VALVE & PUMP						
	11	1	9Y-8069	2	GASKET						
	12	1	0L-1351	2	BOLT (3/8-16X0.875-IN)						
		1	9L-9132	2	WASHER (10.2X25.5X2.5-MM THK)						
	13	1	1A-5822	2	BOLT (1/2-13X2.75-IN)						
	14	1	1N-3872	1	SUPPORT						
	15	1	7E-3473	1	BRACKET						
	16	1	1A-8537	2	BOLT (5/8-11X2.75-IN)						
		1	5P-8247	2	WASHER-HARD (17X32X3.5-MM THK)						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00204127

COOLING SYSTEM

7E-4802 REGULATOR GP-TEMPERATURE-AFTERCOOLER

S/N: ZBA1-UP
ALSO AN ATTACHMENT

SMCS-1355

i02358714

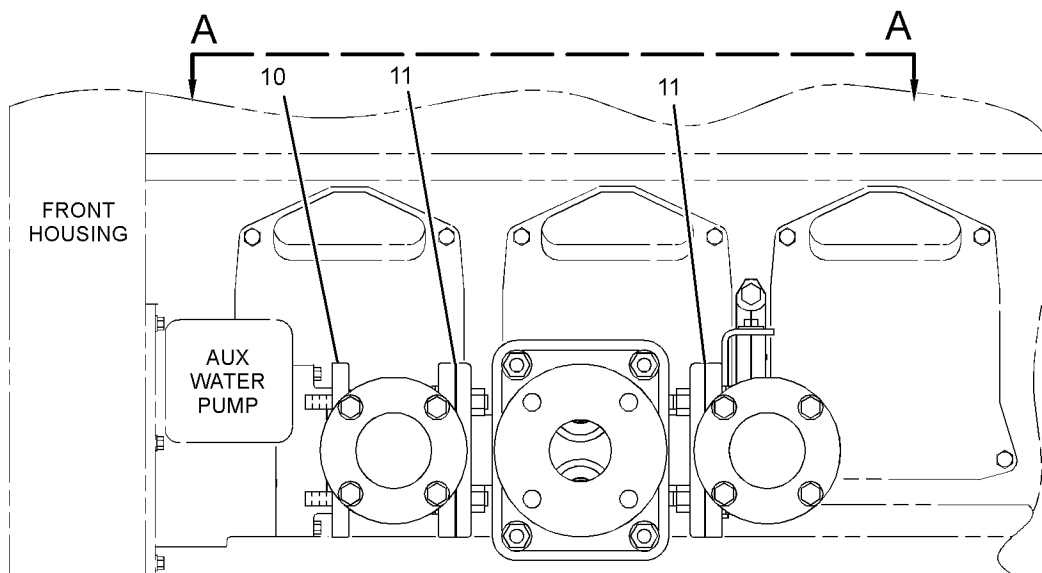
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8S-9092	6	BOLT (5/8-11X2.25-IN)						
	2	1	4K-0367	8	NUT-FULL (5/8-11-THD)						
	3	1	2W-5225	2	FLANGE						
	4	1	2B-0947	8	BOLT (1/2-13X2.25-IN)						
	5	1	5P-8245	8	WASHER-HARD (13.5X25.5X3-MM THK)						
	7	1	9Y-6893	2	GASKET						
	8	1	4F-7387	1	SEAL-O-RING						
	9	1	5B-0841	4	BOLT (5/8-18X1.75-IN)						
	10	1	7E-3471	1	TEE-VALVE & PUMP						
	11	1	9Y-8069	2	GASKET						
Y	12	1	170-7707	1	VALVE GP-THERMOSTATIC						391
	13	1	7E-3472	1	ELBOW (OUTLET)						
	14	1	1N-3872	1	SUPPORT						
	15	1	7E-3473	1	BRACKET						
	16	1	1A-8537	2	BOLT (5/8-11X2.75-IN)						
	17	1	5P-8247	16	WASHER-HARD (17X32X3.5-MM THK)						
	18	1	0L-1351	2	BOLT (3/8-16X0.875-IN)						
	19	1	9L-9132	2	WASHER (10.2X25.5X2.5-MM THK)						
	20	1	1A-5822	2	BOLT (1/2-13X2.75-IN)						
	21	1	1F-7958	8	NUT-FULL (1/2-13-THD)						

Y-SEPARATE ILLUSTRATION

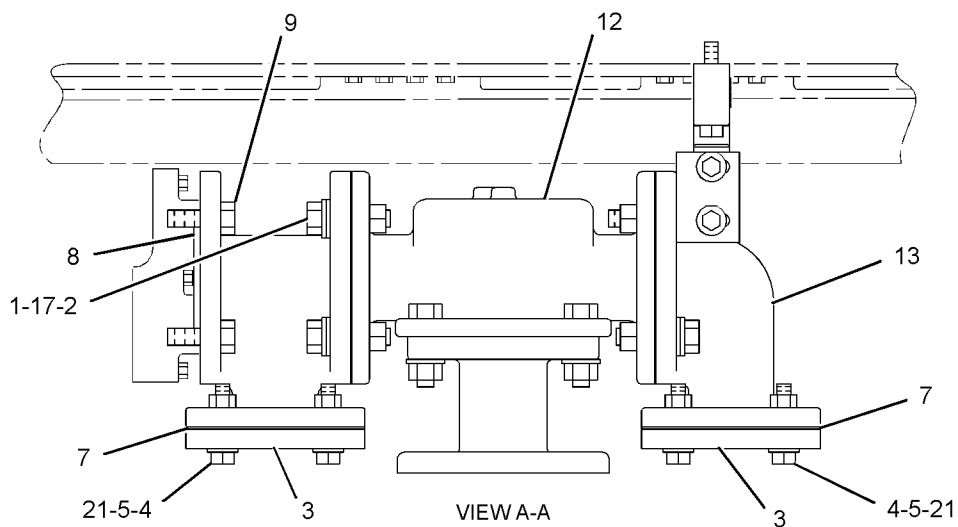
COOLING SYSTEM

7E-4802 REGULATOR GP-TEMPERATURE (contd.)

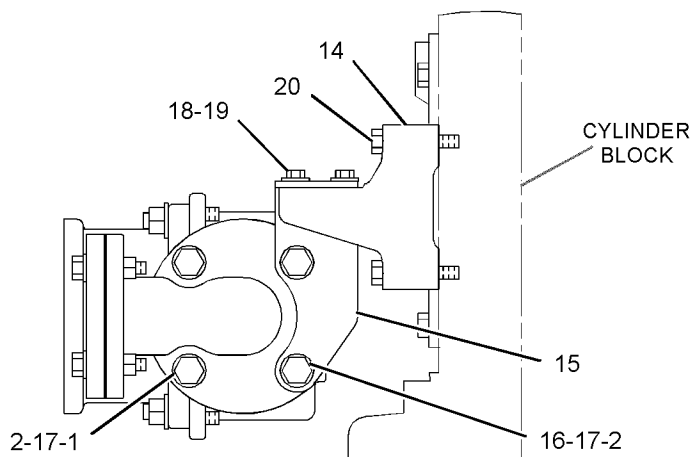
i02358714



LEFT SIDE VIEW



VIEW A-A



REAR VIEW

<END>

GRAPHIC #1

g01193972

COOLING SYSTEM

7W-1427 REGULATOR GP-TEMPERATURE

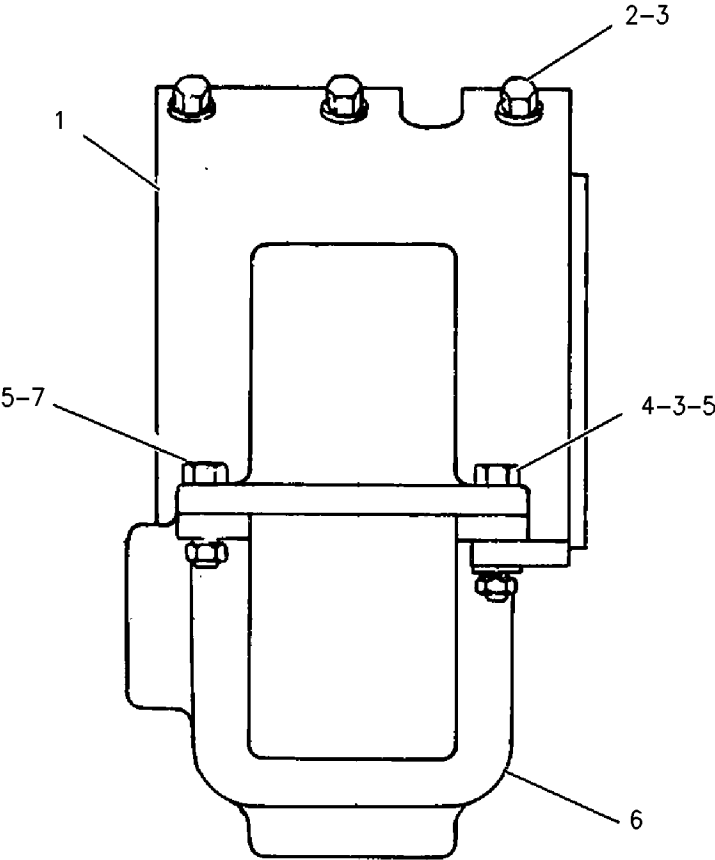
S/N: ZBA1-UP

SMCS-1355

i02220727

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7W-1493	1	SUPPORT AS-VALVE						
	2	1	OS-1594	3	BOLT (3/8-16X1-IN)						
	3	1	5M-2894	6	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	4	1	OL-2070	3	BOLT (3/8-16X2.25-IN)						
	5	1	9S-8752	4	NUT-FULL (3/8-16-THD)						
Y	6	1	7W-1497	1	VALVE GP-THERMOSTATIC						386
C	7	1	OS-1571	1	BOLT (3/8-16X1.75-IN)						

C-CHANGE FROM PREVIOUS TYPE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00741011

COOLING SYSTEM

8N-7643 REGULATOR GP-TEMPERATURE-INLET

S/N: ZBA1-UP

PART OF 129-8218, 4P-4333 TANK GP-EXPANSION
FOR USE WITH EXPANSION TANK AND STANDBY GENERATOR ENGINE
AN ATTACHMENT

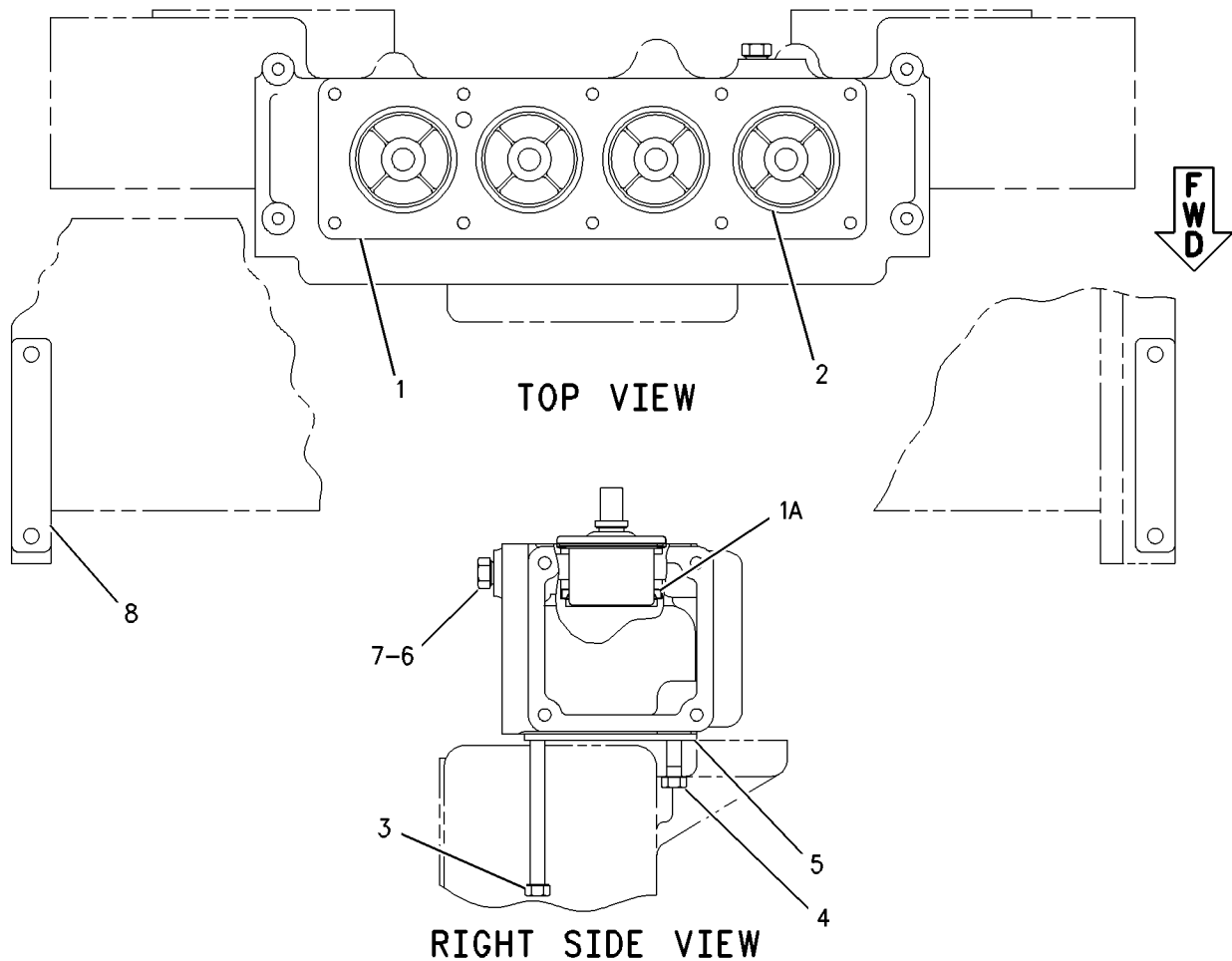
SMCS-1355

i02775352

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-6466	1	HOUSING AS-REGULATOR						
	1A	1	3S-9643	4	SEAL-LIP TYPE (WATER TEMPERATURE REGULATOR)						
C	2	1	6I-4950	4	REGULATOR-WATER TEMPERATURE (92-DEG C)						
	3	1	1A-5183	5	BOLT (3/8-16X4.75-IN)						
	4	1	0S-1588	5	BOLT (3/8-16X1.25-IN)						
	5	1	7N-4927	1	GASKET-HOUSING COVER						
C	6	1	9S-4182	1	PLUG-O-RING						
C	7	1	6V-9027	1	SEAL-O-RING						
BC	8	1	106-3512	2	PLATE						

B-USE AS REQUIRED

C-CHANGE FROM PREVIOUS TYPE



GRAPHIC #1

<END>

g00994923

COOLING SYSTEM

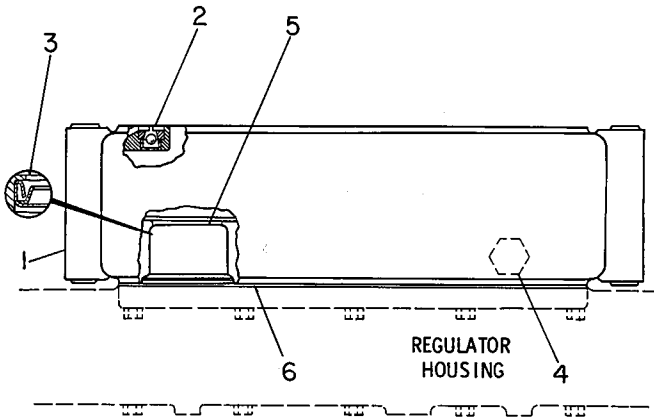
9Y-7035 REGULATOR GP-TEMPERATURE-OUTLET CONTROL

S/N: ZBA1-UP

SMCS-1355

i02230823

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9Y-9089	1	HOUSING AS-REGULATOR						
	2	1	4W-3108	1	VALVE AS-VENT LINE						
	3	1	3S-9643	4	SEAL-LIP TYPE (TEMPERATURE REGULATOR HOUSING)						
	4	1	7W-6492	1	PLUG-PIPE						
	5	1	142-9675	4	REGULATOR-WATER TEMPERATURE (120-DEG C)						
	6	1	153-1810	1	SEAL-INTEGRAL						



FRONT VIEW

GRAPHIC #1

<END>

g00205836

COOLING SYSTEM

9Y - 8724 REGULATOR GP - TEMPERATURE-ENGINE OIL

S/N: ZBA1-UP
FOR USE WITH LANDFILL
AN ATTACHMENT

SMCS - 1355

i02757987

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	7W-0371	1	REGULATOR-TEMPERATURE (104-DEG C) (ENGINE OIL)						
	6V-5051	1	SEAL-O-RING						
<END>									

COOLING SYSTEM

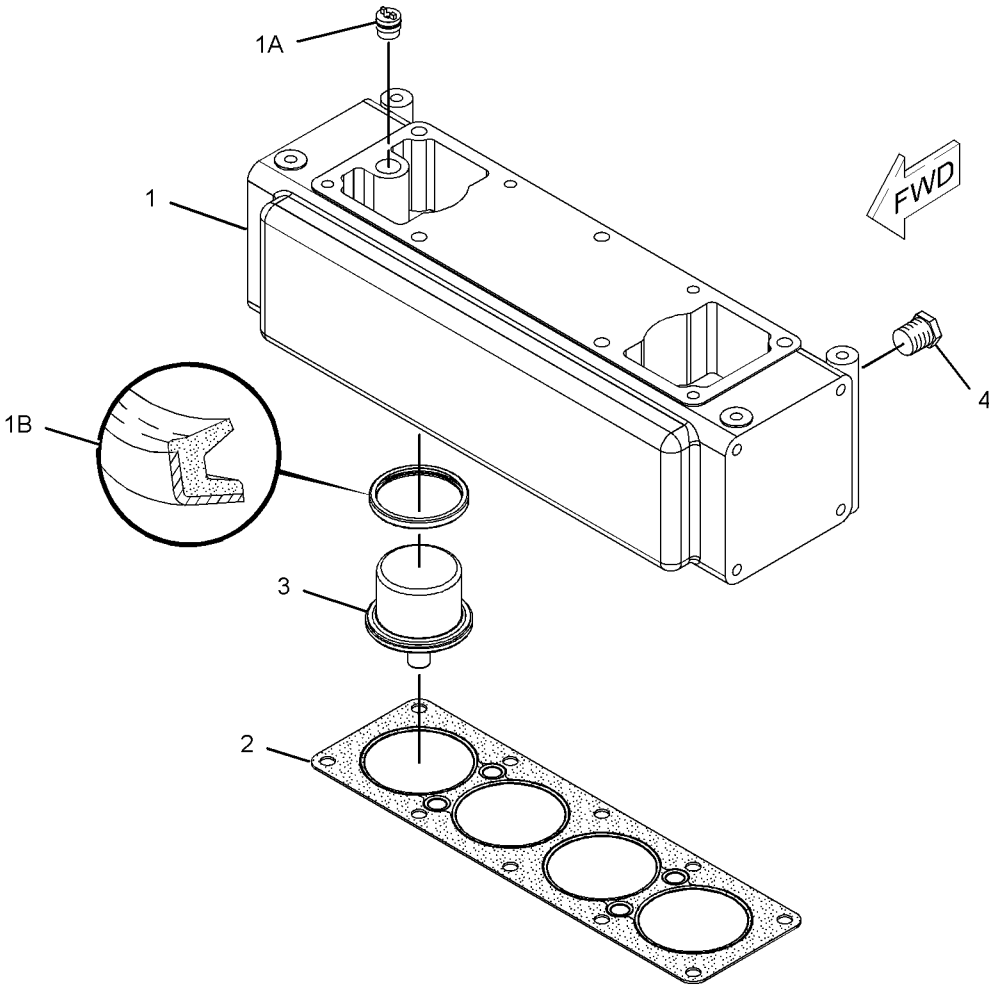
9Y-9090 REGULATOR GP-TEMPERATURE-OUTLET CONTROL

S/N: ZBA1-UP

SMCS-1355

i02776830

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9Y-9089	1	HOUSING AS-REGULATOR						
	1A	1	111-4374	1	VALVE AS-VENT LINE						
	1B	1	3S-9643	4	SEAL-LIP TYPE (WATER TEMPERATURE REGULATOR)						
	2	1	153-1810	1	SEAL-INTEGRAL						
	3	1	247-7133	4	REGULATOR-WATER TEMPERATURE (98-DEG C)						
	4	1	7W-6492	1	PLUG-PIPE						



GRAPHIC #1

<END>

g01119451

COOLING SYSTEM

151 - 6020 REGULATOR GP - TEMPERATURE-AFTERCOOLER

S/N: ZBA1-471

SMCS - 1355

i02358725

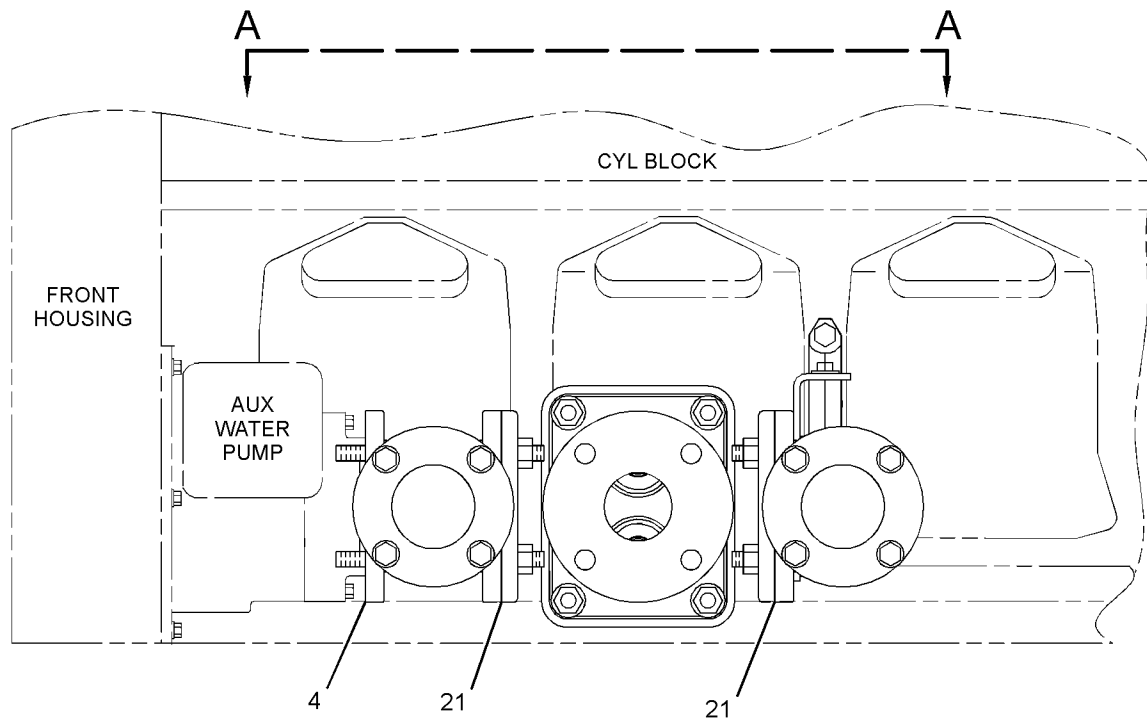
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1N-3872	1	SUPPORT						
	2	1	2W-5225	2	FLANGE						
	4	1	7E-3471	1	TEE - VALVE & PUMP						
	5	1	7E-3472	1	ELBOW (OUTLET)						
	6	1	7E-3473	1	BRACKET						
Y	7	1	151-6018	1	VALVE GP - THERMOSTATIC						390
	8	1	0L-1351	2	BOLT (3/8-16X0.875-IN)						
	9	1	1A-5822	2	BOLT (1/2-13X2.75-IN)						
	10	1	1A-8537	2	BOLT (5/8-11X2.75-IN)						
	11	1	1F-7958	8	NUT - FULL (1/2-13-THD)						
	12	1	2B-0947	8	BOLT (1/2-13X2.25-IN)						
	13	1	4F-7387	1	SEAL - O-RING						
	14	1	4K-0367	8	NUT - FULL (5/8-11-THD)						
	15	1	5B-0841	4	BOLT (5/8-18X1.75-IN)						
	16	1	5P-8245	8	WASHER - HARD (13.5X25.5X3-MM THK)						
	17	1	5P-8247	2	WASHER - HARD (17X32X3.5-MM THK)						
	18	1	8S-9092	6	BOLT (5/8-11X2.25-IN)						
	19	1	9L-9132	2	WASHER (10.2X25.5X2.5-MM THK)						
	20	1	9Y-6893	2	GASKET						
	21	1	9Y-8069	2	GASKET						

Y - SEPARATE ILLUSTRATION

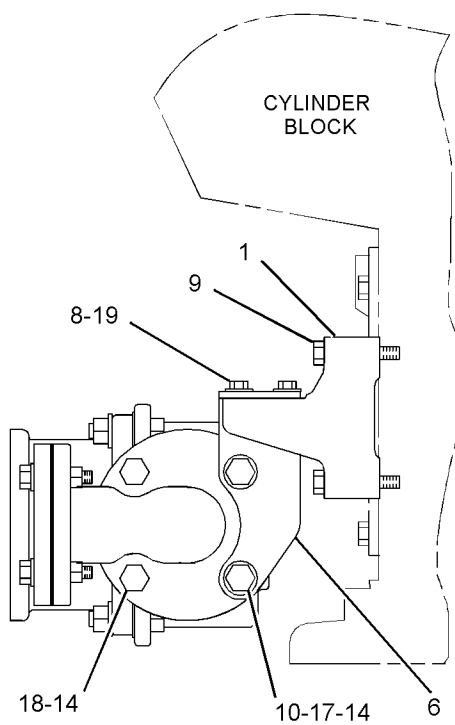
COOLING SYSTEM

151-6020 REGULATOR GP - TEMPERATURE (contd.)

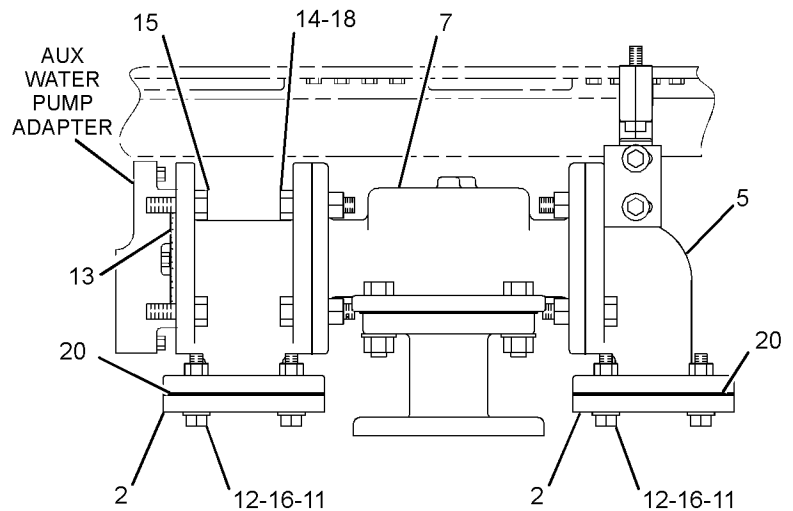
i02358725



LEFT SIDE VIEW OF ENGINE



REAR VIEW OF ENGINE



VIEW A-A

GRAPHIC #1

<END>

g01240608

COOLING SYSTEM

270-3898 REGULATOR GP - TEMPERATURE-AFTERCOOLER

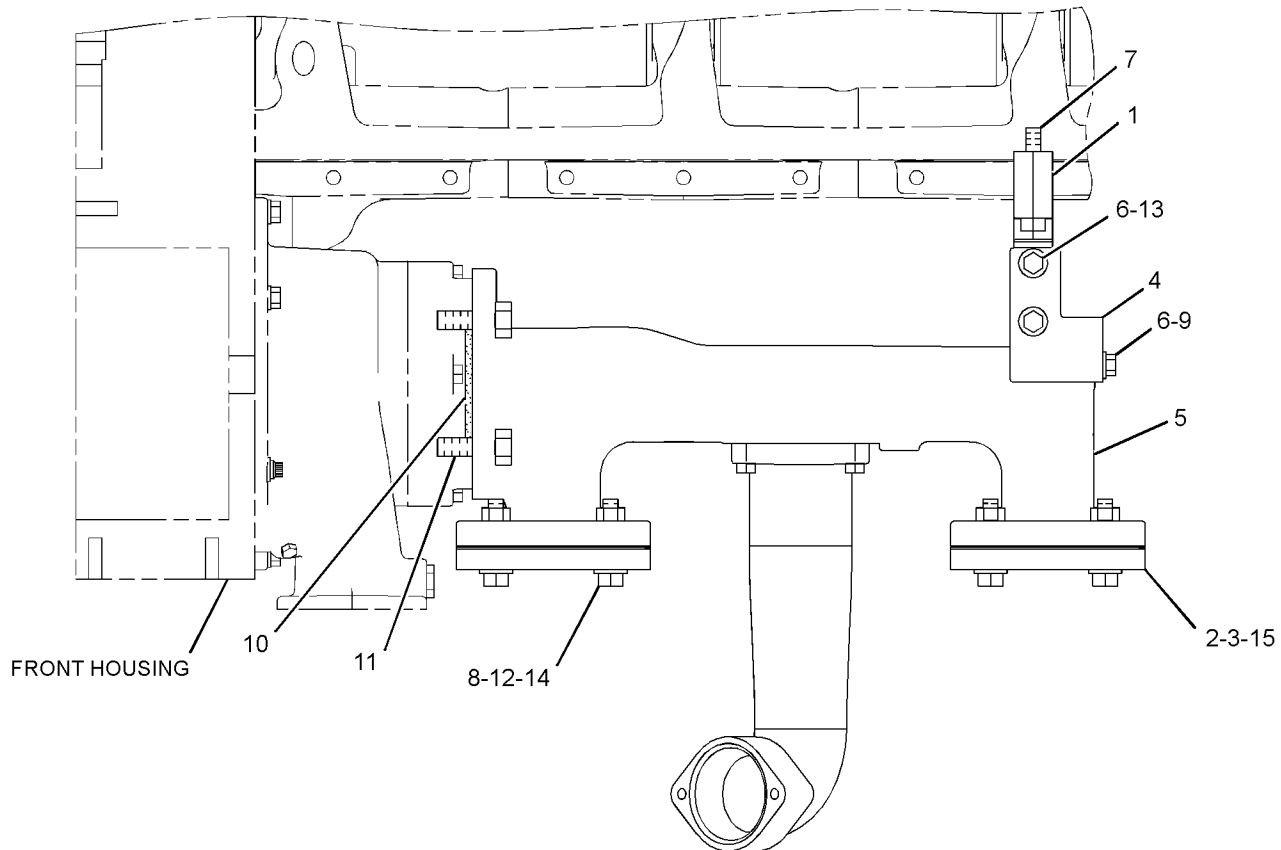
S/N: ZBA1-UP

SMCS-1355

i02402755

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1N-3872	1	SUPPORT						
	2	1	2W-5225	2	FLANGE						
	3	1	7E-0015	2	COVER						
	4	1	214-0731	1	BRACKET						
Y	5	1	270-3930	1	HOUSING & REGULATOR GP						253
	6	1	0L-1351	4	BOLT (3/8-16X0.875-IN)						
	7	1	1A-5822	2	BOLT (1/2-13X2.75-IN)						
	8	1	1F-7958	8	NUT-FULL (1/2-13-THD)						
	9	1	3V-3308	2	WASHER-HARD (10.2X20.5X2.5-MM THK)						
	10	1	4F-7387	1	SEAL-O-RING						
	11	1	5B-0841	4	BOLT (5/8-18X1.75-IN)						
	12	1	5P-8245	8	WASHER-HARD (13.5X25.5X3-MM THK)						
	13	1	9X-6458	2	WASHER-HARD (10.2X22.5X3-MM THK)						
	14	1	9X-8873	8	BOLT (1/2-13X2.25-IN)						
	15	1	9Y-6893	2	GASKET						

Y-SEPARATE ILLUSTRATION



TOP VIEW

GRAPHIC #1

<END>

g01241886

COOLING SYSTEM

284-0627 REGULATOR GP - TEMPERATURE-AFTERCOOLER

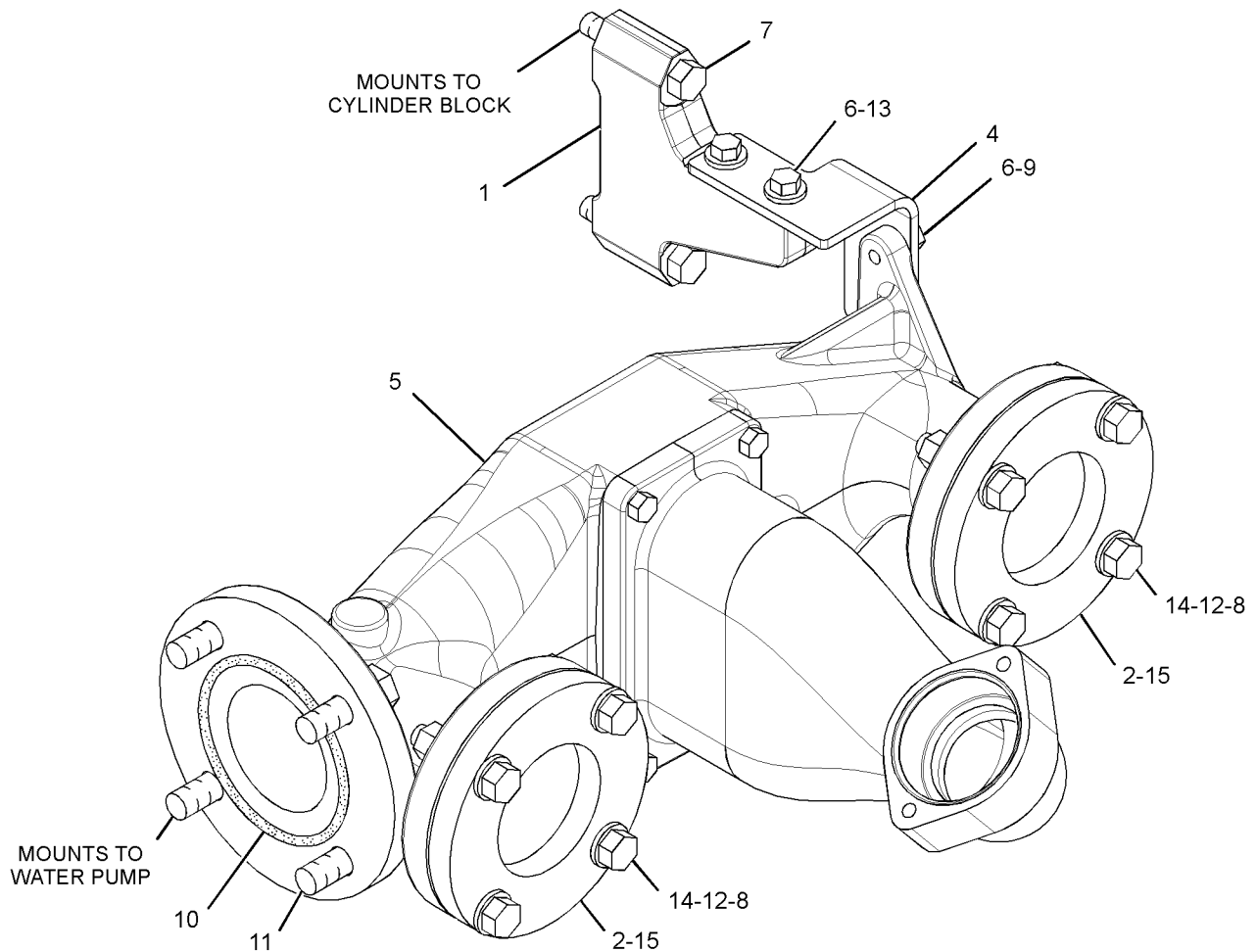
S/N: ZBA472-UP

SMCS-1355

i02660830

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1N-3872	1	SUPPORT						
	2	1	2W-5225	2	FLANGE						
	4	1	214-0731	1	BRACKET						
Y	5	1	284-0628	1	HOUSING & REGULATOR GP						255
	6	1	0L-1351	4	BOLT (3/8-16X0.875-IN)						
	7	1	1A-5822	2	BOLT (1/2-13X2.75-IN)						
	8	1	1F-7958	8	NUT-FULL (1/2-13-THD)						
	9	1	3V-3308	2	WASHER-HARD (10.2X20.5X2.5-MM THK)						
	10	1	4F-7387	1	SEAL-O-RING						
	11	1	5B-0841	4	BOLT (5/8-18X1.75-IN)						
	12	1	5P-8245	8	WASHER-HARD (13.5X25.5X3-MM THK)						
	13	1	9X-6458	2	WASHER-HARD (10.2X22.5X3-MM THK)						
	14	1	9X-8873	8	BOLT (1/2-13X2.25-IN)						
	15	1	9Y-6893	2	GASKET						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01343560

COOLING SYSTEM

7N-4885 SWITCH GP-COOLANT LEVEL

S/N: ZBA1-UP
FOR USE WITH EXPANSION TANK
AN ATTACHMENT

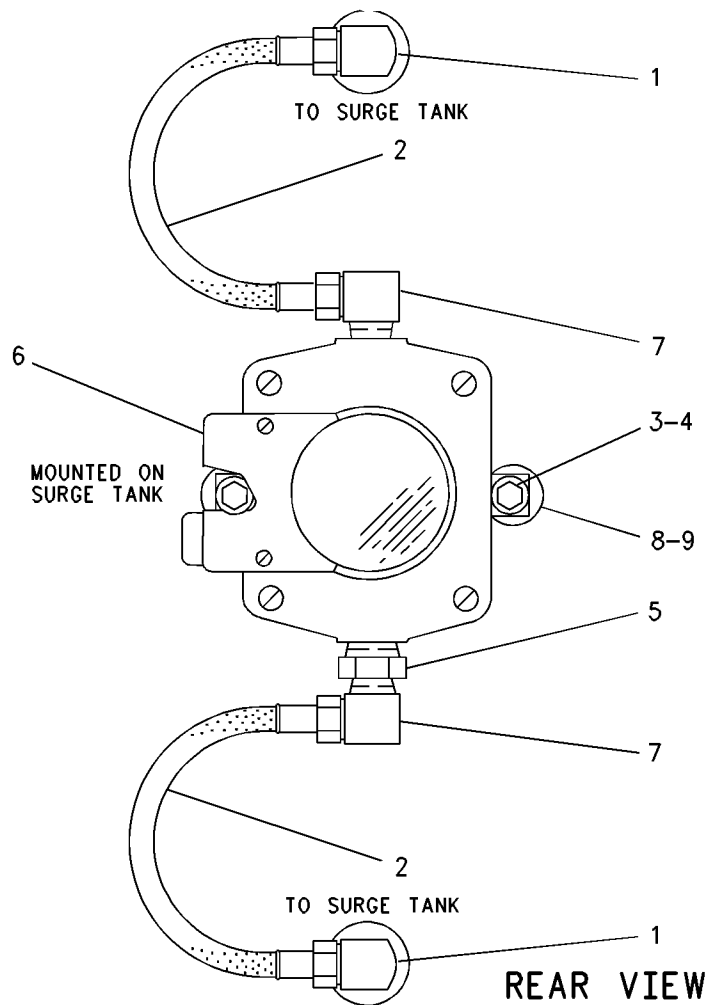
SMCS-7470

i02766298

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	1	1	6V-4245	2	ELBOW						
CI	2	1	3N-4622	2	HOSE AS						
C	3	1	2A-0762	2	BOLT (1/4-20X0.625-IN)						
	4	1	5P-0537	2	WASHER-HARD (7.2X14.5X2-MM THK)						
	5	1	6B-5072	1	BUSHING-REDUCING						
	6	1	2N-9768	1	SWITCH-LIQUID LEVEL (COOLANT)						
C	7	1	4R-8605	2	ELBOW						
C	8	1	7E-7731	2	MOUNT						
	9	1	6V-7646	2	WASHER-HARD (7.2X25X2-MM THK)						

C- CHANGE FROM PREVIOUS TYPE

I- REFER TO HYDRAULIC INFORMATION SYSTEM



GRAPHIC #1

<END>

g00899609

COOLING SYSTEM

4P-4333 TANK GP - EXPANSION

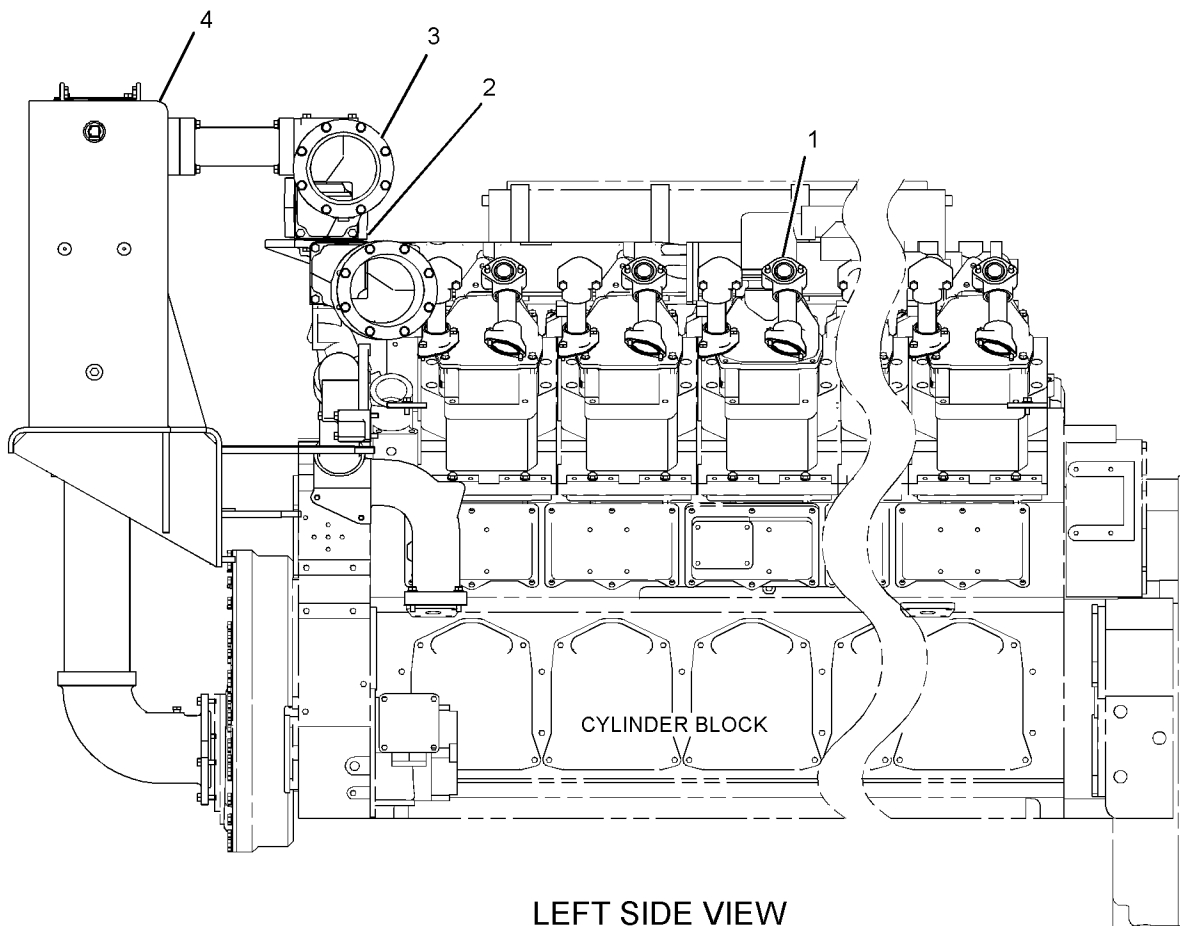
S/N: ZBA1-UP
WET EXHAUST MANIFOLD
AN ATTACHMENT

SMCS-1354

i02869507

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	2W-1437	1	LINES GP-WATER (UPPER)	269
Y	2	1	8N-7643	1	REGULATOR GP-TEMPERATURE (WATER)	368
Y	3	1	8N-8993	1	CONNECTION GP-WATER (INLET, LH)	243
CY	4	1	201-3425	1	TANK GP-EXPANSION	381

C- CHANGE FROM PREVIOUS TYPE
Y- SEPARATE ILLUSTRATION



LEFT SIDE VIEW

GRAPHIC #1

<END>

g01241366

COOLING SYSTEM

8N-7717 TANK GP-EXPANSION

S/N: ZBA1-UP

FOR USE WITH 8N-8993—PAGE 243, 8N-7643—PAGE 368
AN ATTACHMENT

SMCS-1354

i02853277

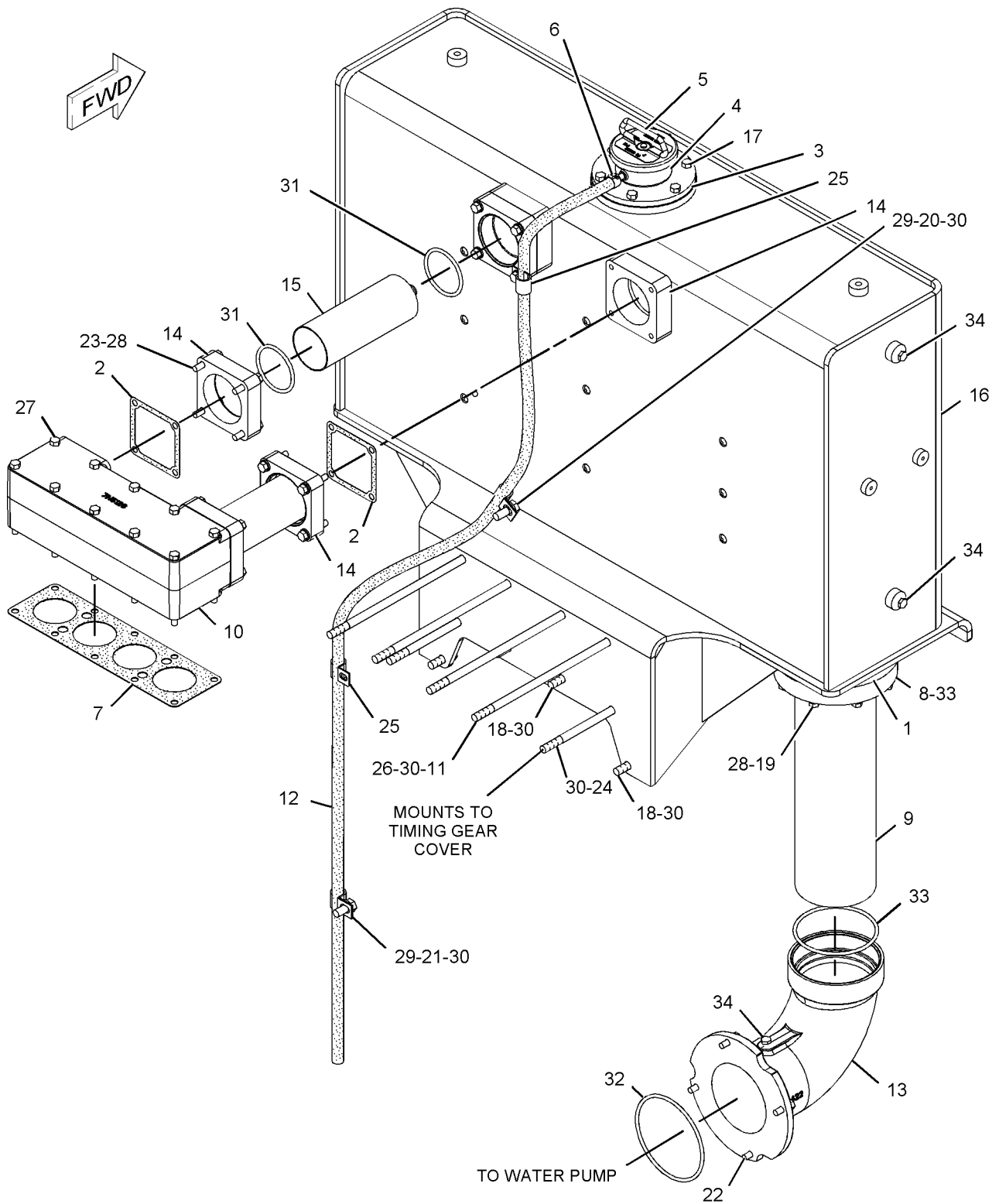
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	1S-5772	1	GASKET	
	2	1	2N-0931	4	GASKET	
	3	1	3H-5939	1	GASKET-HEAT EXCHANGER	
	4	1	3N-1341	1	ADAPTER AS-NECK	
	5	1	294-9052	1	CAP GP-COOLANT FILLER (EXPANSION TANK)	
		1	225-4256	1	FILM-WARNING (HOT FLUID UNDER PRESSURE, U.S.)	
	6	1	5D-1026	1	CLAMP-HOSE	
	7	1	7N-4927	1	GASKET-HOUSING COVER	
	8	1	7N-5120	1	FLANGE	
	9	1	7N-5123	1	TUBE	
	10	1	7N-5127	1	HOUSING AS	
		1	4W-3108	1	VALVE AS-VENT LINE	
	11	1	8B-9725	4	BOSS	
E	12	1	5P-0721		HOSE (193-CM)	
	13	1	8N-9422	1	ELBOW	
	14	1	8N-9609	4	FLANGE	
	15	1	8N-9706	2	TUBE	
C	16	1	245-2876	1	TANK AS-EXPANSION	
C	17	1	0L-1351	6	BOLT (3/8-16X0.875-IN)	
C	18	1	0S-1585	4	BOLT (1/2-13X1.5-IN)	
	19	1	0S-1590	8	BOLT (3/8-16X2-IN)	
	20	1	0S-1595	1	BOLT (1/2-13X1.25-IN)	
	21	1	0S-1621	1	BOLT (1/2-13X1-IN)	
	22	1	1A-2029	4	BOLT (3/8-16X1.125-IN)	
	23	1	1C-2251	16	BOLT (3/8-16X1.87-IN)	
	24	1	2A-1531	2	BOLT (1/2-13X6.5-IN)	
	25	1	3S-8664	2	CLIP	
	26	1	4M-2442	4	BOLT (1/2-13X12.32-IN)	
	27	1	5B-9603	10	BOLT (3/8-16X5-IN)	
C	28	1	5M-2894	24	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	29	1	5P-4295	2	CLIP	
C	30	1	5P-8245	12	WASHER-HARD (13.5X25.5X3-MM THK)	
	31	1	6V-1454	4	SEAL-O-RING	
	32	1	6V-6809	1	SEAL-O-RING	
	33	1	8T-2903	2	SEAL-O-RING	
	34	1	8T-6765	5	PLUG-PIPE	

C-CHANGE FROM PREVIOUS TYPE
E-ORDER BY THE CENTIMETER

COOLING SYSTEM

8N-7717 TANK GP-EXPANSION (contd.)

i02853277



COOLING SYSTEM

129-8218 TANK GP-EXPANSION

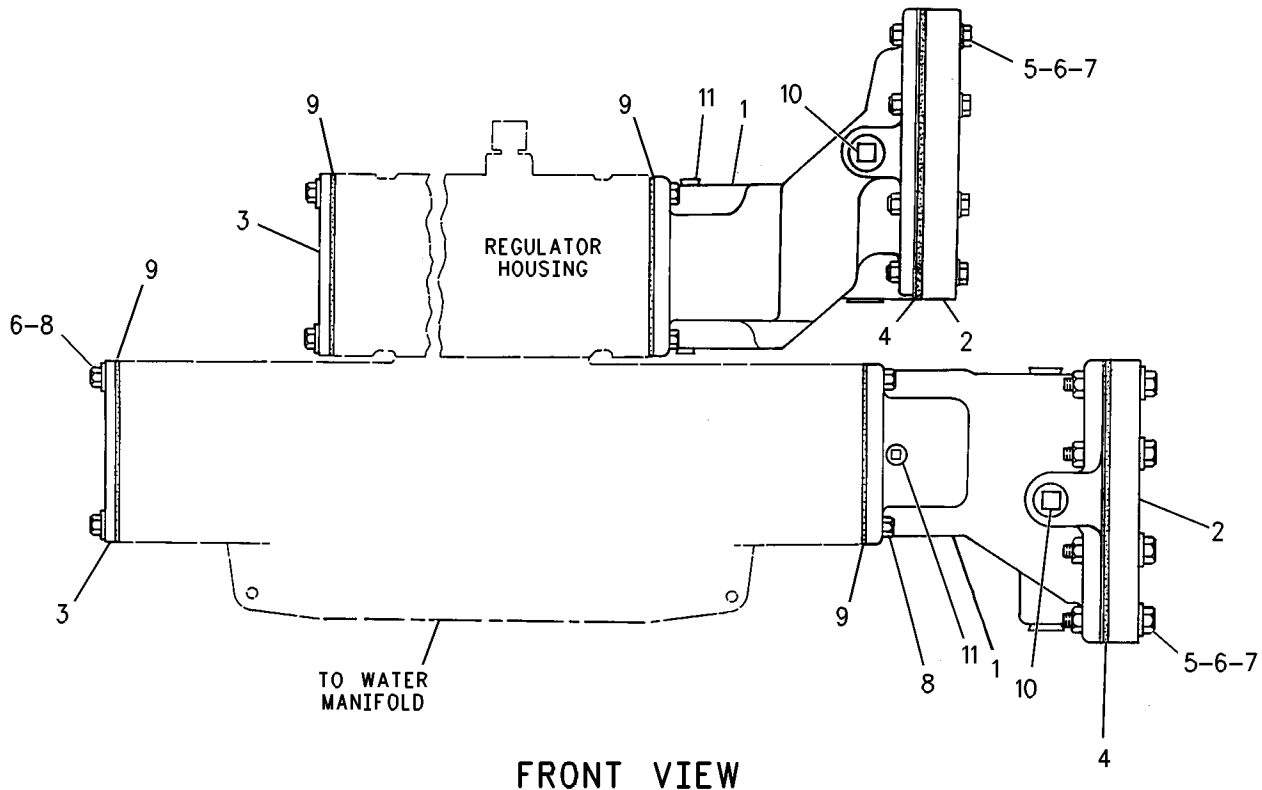
S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1354

i01749684

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
C	1	1	1W-2639	2	ADAPTER-EXCHANGER	
C	2	1	7N-7009	2	FLANGE	
C	3	1	7E-6017	2	COVER	
C	4	1	1S-5772	2	GASKET	
C	5	1	0S-1590	16	BOLT (3/8-16X2-IN)	
C	6	1	5M-2894	24	WASHER-HARD (10.2X18.5X2.5-MM THK)	
C	7	1	9S-8752	16	NUT-FULL (3/8-16-THD)	
C	8	1	0S-1594	16	BOLT (3/8-16X1-IN)	
C	9	1	7E-6016	4	GASKET	
C	10	1	8T-6762	6	PLUG-PIPE	
C	11	1	8T-6758	4	PLUG-PIPE	
FY			128-7361	1	LINES GP-WATER	309
FY			8N-7643	1	REGULATOR GP-TEMPERATURE (WATER)	368
FY			201-3425	1	TANK GP-EXPANSION	381

C- CHANGE FROM PREVIOUS TYPE
F- NOT SHOWN
Y- SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00863463

COOLING SYSTEM

201-3425 TANK GP-EXPANSION

S/N: ZBA1-UP

PART OF 129-8218, 4P-4333 TANK GP-EXPANSION
AN ATTACHMENT

SMCS-1354

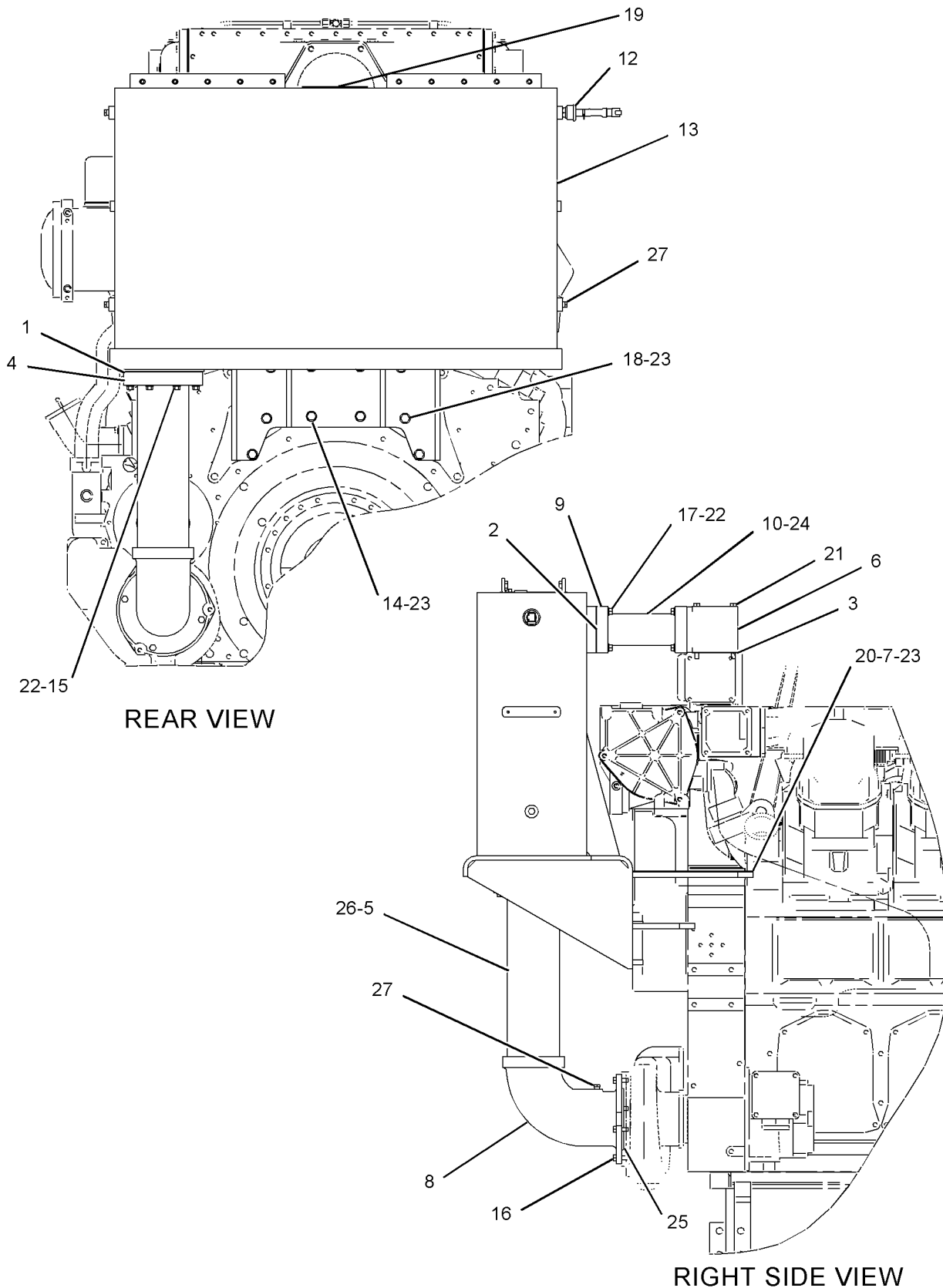
i02776832

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	1S-5772	1	GASKET	
	2	1	2N-0931	4	GASKET	
	3	1	7N-4927	1	GASKET-HOUSING COVER	
	4	1	7N-5120	1	FLANGE	
	5	1	7N-5123	1	TUBE	
	6	1	7N-5127	1	HOUSING AS	
		1	111-4374	1	VALVE AS-VENT LINE	
	7	1	8B-9725	4	BOSS	
	8	1	8N-9422	1	ELBOW	
	9	1	8N-9609	4	FLANGE	
	10	1	8N-9706	2	TUBE	
Y	12	1	143-8540	1	SENSOR GP-COOLANT LEVEL	822
	13	1	201-4828	1	TANK AS	
		1	2L-4522	6	SPACER (5 13/32-IN LG)	
		1	3N-5863	4	BOSS	
		1	172-2270	2	PLATE AS	
					(EACH INCLUDES)	
		1	8T-5912	10	NUT-WELD (3/8-16-THD)	
	14	1	0S-1585	4	BOLT (1/2-13X1.5-IN)	
	15	1	0S-1590	8	BOLT (3/8-16X2-IN)	
	16	1	1A-2029	4	BOLT (3/8-16X1.125-IN)	
	17	1	1C-2251	16	BOLT (3/8-16X1.87-IN)	
	18	1	2A-1531	2	BOLT (1/2-13X6.5-IN)	
	19	1	3H-5939	1	GASKET-HEAT EXCHANGER	
	20	1	4M-2442	4	BOLT (1/2-13X12.32-IN)	
	21	1	5B-9603	10	BOLT (3/8-16X5-IN)	
	22	1	5M-2894	24	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	23	1	5P-8245	10	WASHER-HARD (13.5X25.5X3-MM THK)	
	24	1	6V-1454	4	SEAL-O-RING	
	25	1	6V-6809	1	SEAL-O-RING	
	26	1	8T-2903	2	SEAL-O-RING	
	27	1	8T-6765	4	PLUG-PIPE	
Y-SEPARATE ILLUSTRATION						

COOLING SYSTEM

201-3425 TANK GP - EXPANSION (contd.)

i02776832



GRAPHIC #1

<END>

g01120118

COOLING SYSTEM

201-5872 TANK GP-WATER

S/N: ZBA1-UP

FOR USE WITH DRY MANIFOLD WITH EXPANSION TANK
AN ATTACHMENT

SMCS-1354, 1377

i02781665

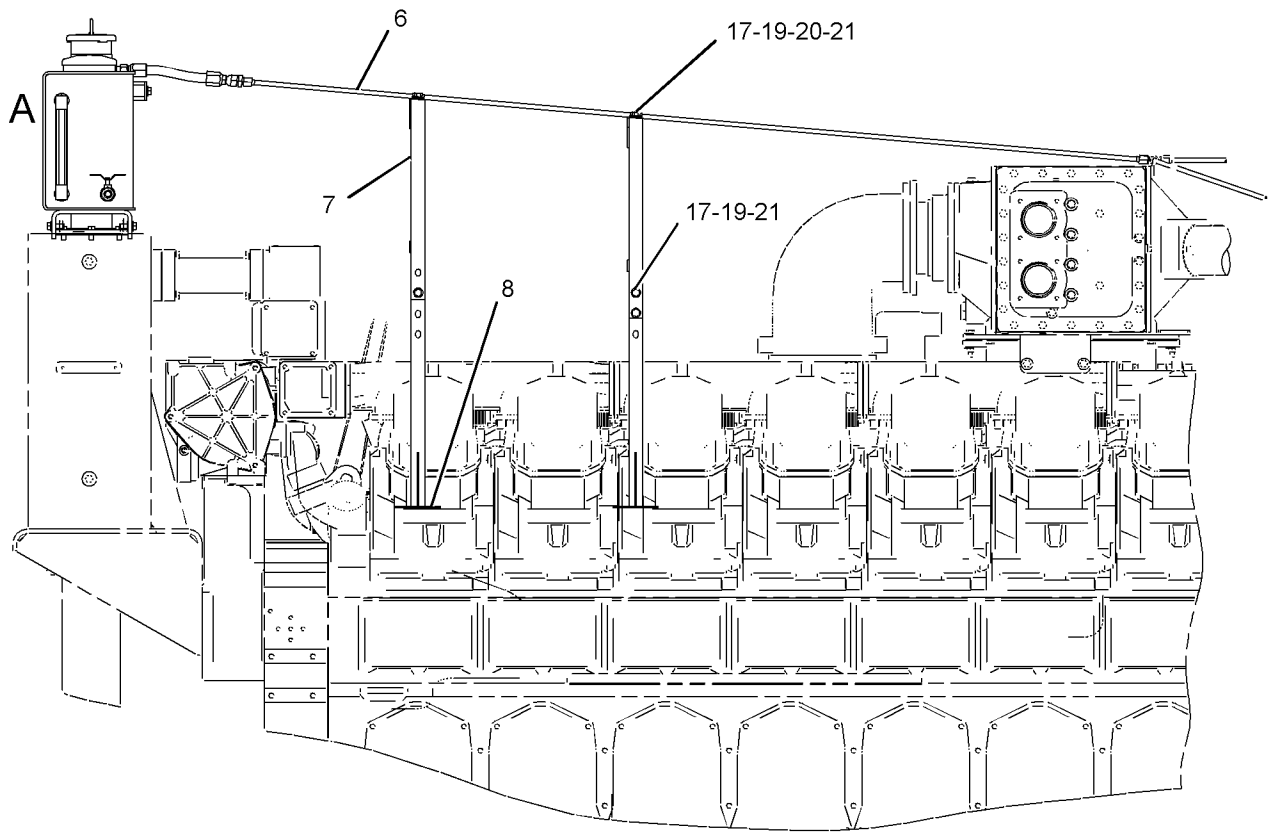
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3E-7445	2	CLAMP-HOSE						
	2	1	3H-5939	1	GASKET-HEAT EXCHANGER						
	3	1	6V-5016	1	VALVE-BALL						
I	4	1	9L-5141	1	HOSE AS						
	5	1	115-9128	1	CAP-RESERVOIR (7-PSI) (WATER TANK)						
	6	1	116-2389	1	TUBE AS						
	7	1	116-2396	2	SUPPORT AS						
	8	1	116-2399	4	SUPPORT AS						
	9	1	165-8372	1	TANK AS						
	9A	1	109-5862	1	CAP (WATER TANK)						
		1	3Y-7829	2	BOSS (3/8-16-THD)						
		1	7L-3092	2	BOSS (1/2-14-THD)						
	10	1	167-7471	1	TUBE						
	11	1	172-3937	1	PLATE						
	12	1	172-3943	1	TUBE AS						
	13	1	201-9573	1	HOSE						
	14	1	201-9638	1	GAUGE (WATER TANK LEVEL)						
	15	1	061-6737	1	UNION-FLARED						
	16	1	0L-1351	6	BOLT (3/8-16X0.875-IN)						
	17	1	0S-0509	11	BOLT (3/8-16X0.75-IN)						
	18	1	1A-2029	20	BOLT (3/8-16X1.125-IN)						
	19	1	3V-3308	39	WASHER-HARD (10.2X20.5X2.5-MM THK)						
	20	1	8S-8820	2	CLIP						
	21	1	9S-8752	8	NUT-FULL (3/8-16-THD)						

I-REFER TO HYDRAULIC INFORMATION SYSTEM

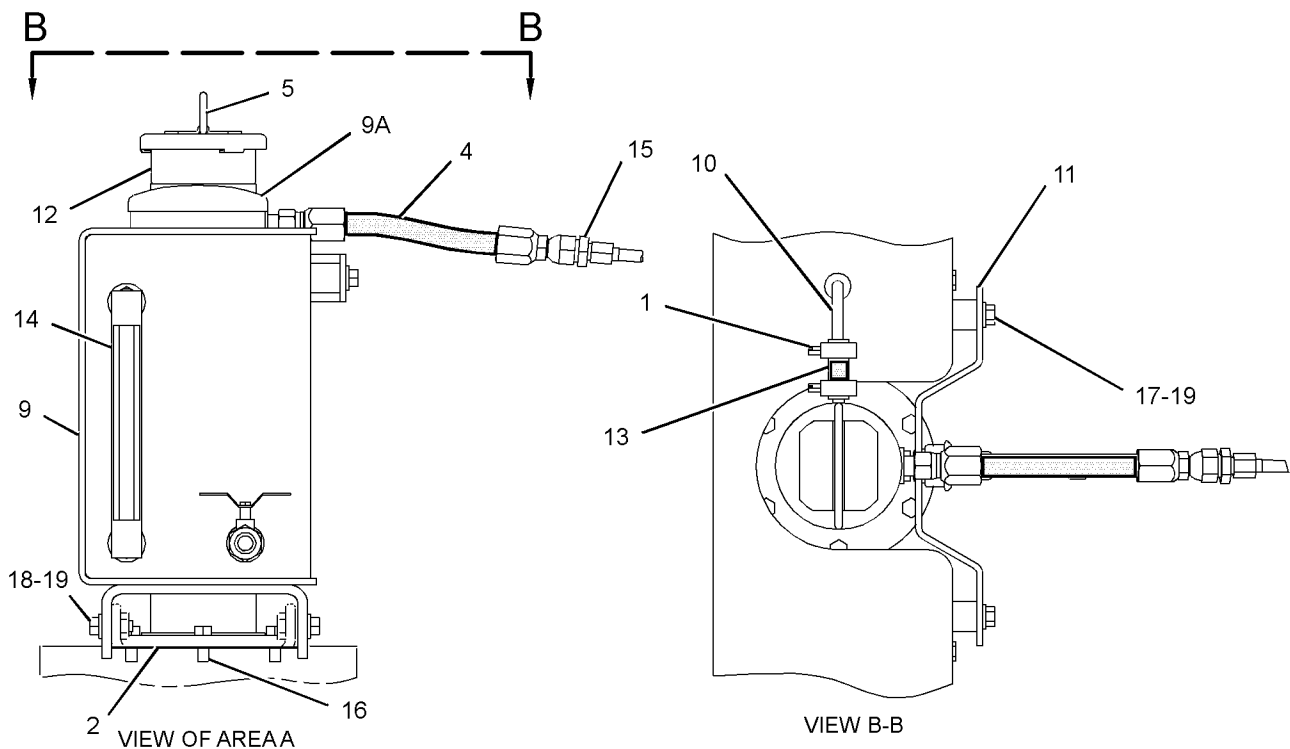
COOLING SYSTEM

201-5872 TANK GP - WATER (contd.)

i02781665



LEFT SIDE VIEW



GRAPHIC #1

<END>

g01257077

COOLING SYSTEM

7E-4711 VALVE GP-THERMOSTATIC

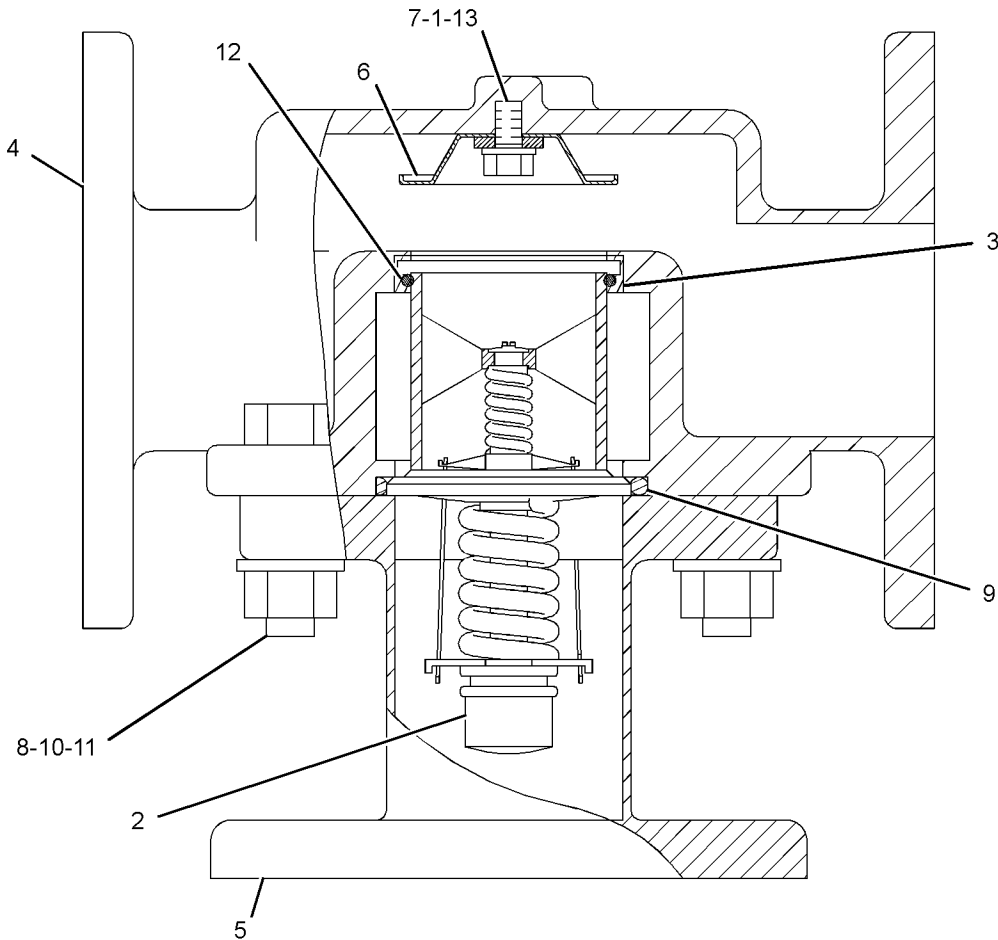
S/N: ZBA1-UP

PART OF 7E-3783 REGULATOR GP-TEMPERATURE
AN ATTACHMENT

SMCS-5074

i02369212

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1Y-0462	2	WASHER (0.328X0.81X0.125-IN THK)						
	2	1	4P-1505	2	REGULATOR-WATER TEMPERATURE (35-DEG C)						
	3	1	4P-1511	2	SLEEVE						
	4	1	4P-1523	1	HOUSING-UPPER						
	5	1	4P-1524	1	HOUSING-LOWER						
	6	1	4P-1525	2	SEAT						
	7	1	2H-3755	2	BOLT (5/16-18X0.43-IN)						
	8	1	5P-8247	4	WASHER-HARD (17X32X3.5-MM THK)						
	9	1	6V-1454	2	SEAL-O-RING (WATER TEMPERATURE REGULATOR)						
	10	1	7X-0347	4	BOLT (5/8-11X2.25-IN)						
	11	1	7X-0448	4	NUT (5/8-11-THD)						
	12	1	8T-1703	2	SEAL-O-RING						
	13	1	8T-4224	2	WASHER-HARD (8.8X16X2-MM THK)						



GRAPHIC #1

<END>

g01190113

COOLING SYSTEM

7W-1497 VALVE GP-THERMOSTATIC

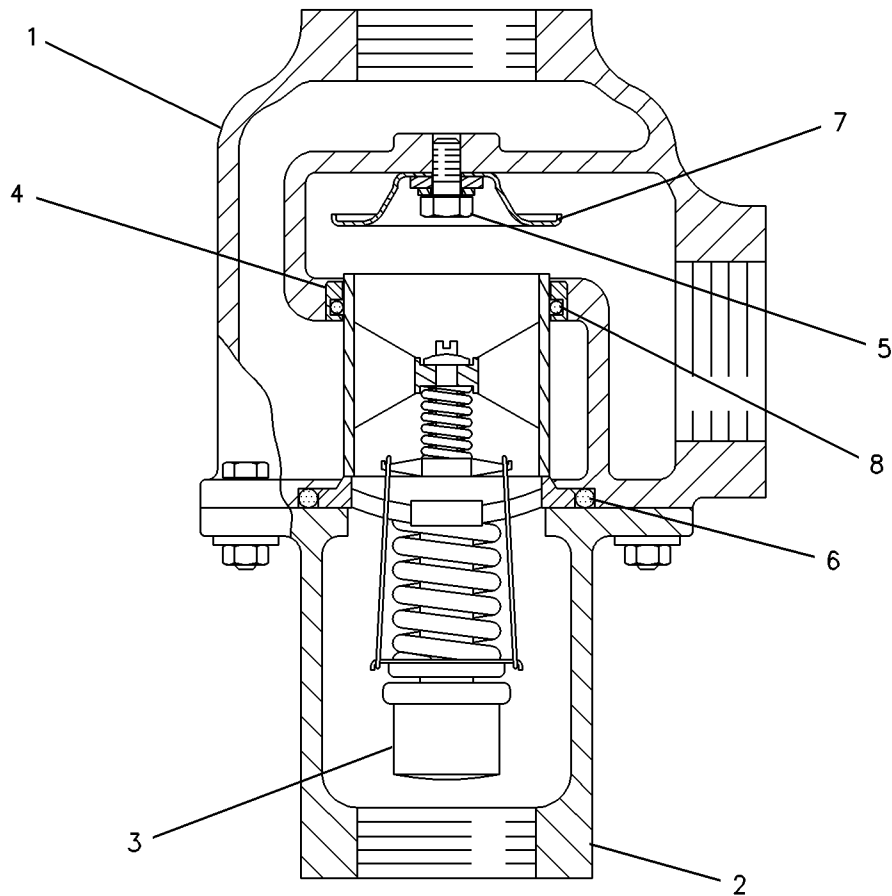
S/N: ZBA1-UP

PART OF 7W-1427 REGULATOR GP-TEMPERATURE

SMCS-5074

i02220728

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4P-1503	1	HOUSING-UPPER						
	2	1	4P-1504	1	HOUSING-LOWER						
	3	1	4P-1505	1	REGULATOR-WATER TEMPERATURE (35-DEG C)						
	4	1	4P-1511	1	SLEEVE						
	5	1	2H-3755	1	BOLT (5/16-18X0.43-IN)						
		1	8T-4224	1	WASHER-HARD (8.8X16X2-MM THK)						
		1	1Y-0462	1	WASHER (0.328X0.81X0.125-IN THK)						
	6	1	6V-1454	1	SEAL-O-RING						
	7	1	4P-1525	1	SEAT						
	8	1	8T-1703	1	SEAL-O-RING						



GRAPHIC #1

<END>

g00233563

COOLING SYSTEM

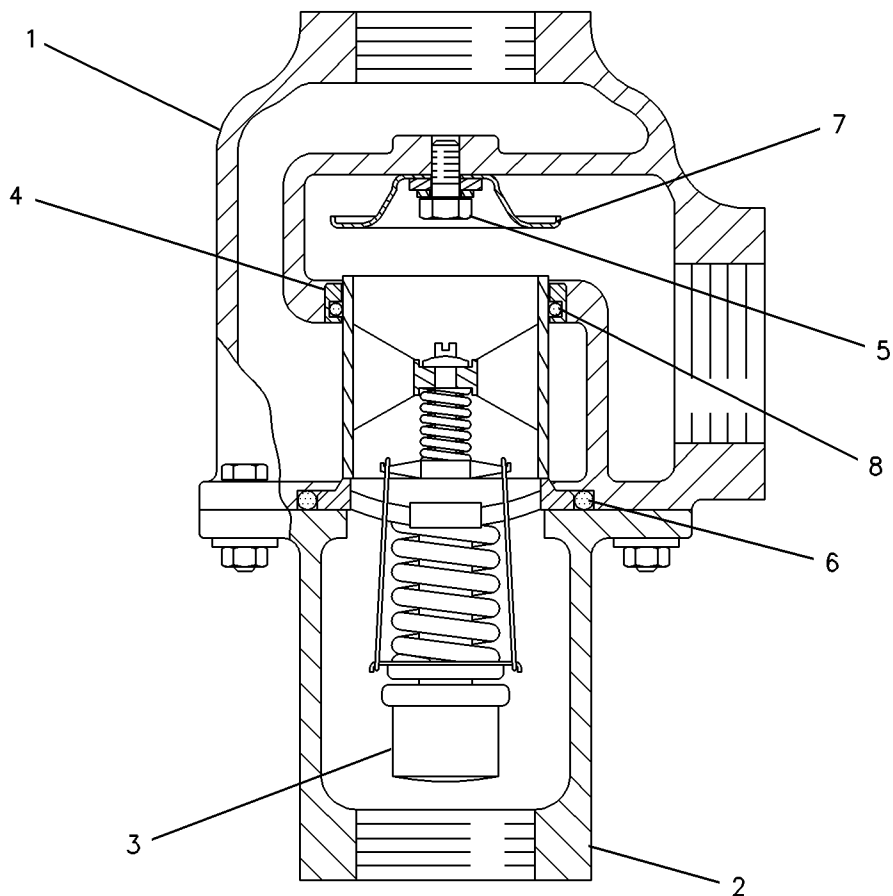
7W-6555 VALVE GP-THERMOSTATIC

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-5074

i02776850

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4P-1503	1	HOUSING-UPPER						
	2	1	4P-1504	1	HOUSING-LOWER						
	3	1	4P-1506	1	REGULATOR AS-WATER TEMPERATURE (60-DEG C)						
	4	1	4P-1511	1	SLEEVE						
	5	1	2H-3755	1	BOLT (5/16-18X0.43-IN)						
		1	8T-4224	1	WASHER-HARD (8.8X16X2-MM THK)						
		1	1Y-0462	1	WASHER (0.328X0.81X0.125-IN THK)						
	6	1	6V-1454	1	SEAL-O-RING						
	7	1	4P-1525	1	SEAT						
	8	1	8T-1703	1	SEAL-O-RING						



GRAPHIC #1

<END>

g00233563

COOLING SYSTEM

9Y-8070 VALVE GP-THERMOSTATIC

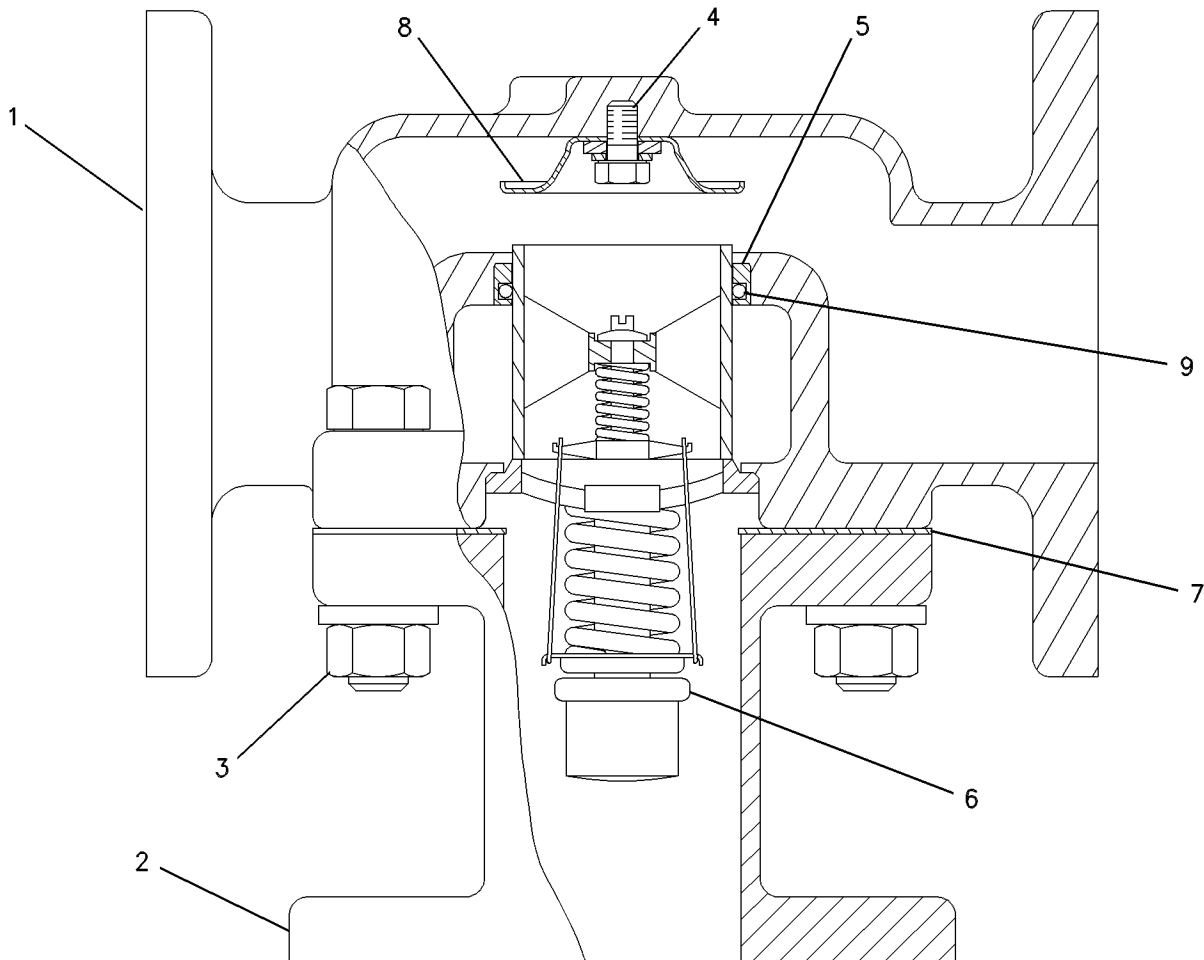
S/N: ZBA1-UP

PART OF 7E-4802 REGULATOR GP-TEMPERATURE

SMCS-5074

i02757489

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4P-1523	1	HOUSING-UPPER						
	2	1	4P-1524	1	HOUSING-LOWER						
	3	1	7X-0448	4	NUT (5/8-11-THD)						
		1	5P-8247	4	WASHER-HARD (17X32X3.5-MM THK)						
		1	7X-0347	4	BOLT (5/8-11X2.25-IN)						
4		1	2H-3755	2	BOLT (5/16-18X0.43-IN)						
		1	1Y-0462	2	WASHER (0.328X0.81X0.125-IN THK)						
		1	8T-4224	2	WASHER-HARD (8.8X16X2-MM THK)						
5		1	8T-1703	2	SEAL-O-RING						
6		1	4P-1506	2	REGULATOR AS-WATER TEMPERATURE (60-DEG C)						
7		1	6V-1454	2	SEAL-O-RING						
8		1	4P-1525	2	SEAT						
9		1	4P-1511	2	SLEEVE						



GRAPHIC #1

<END>

g00462641

COOLING SYSTEM

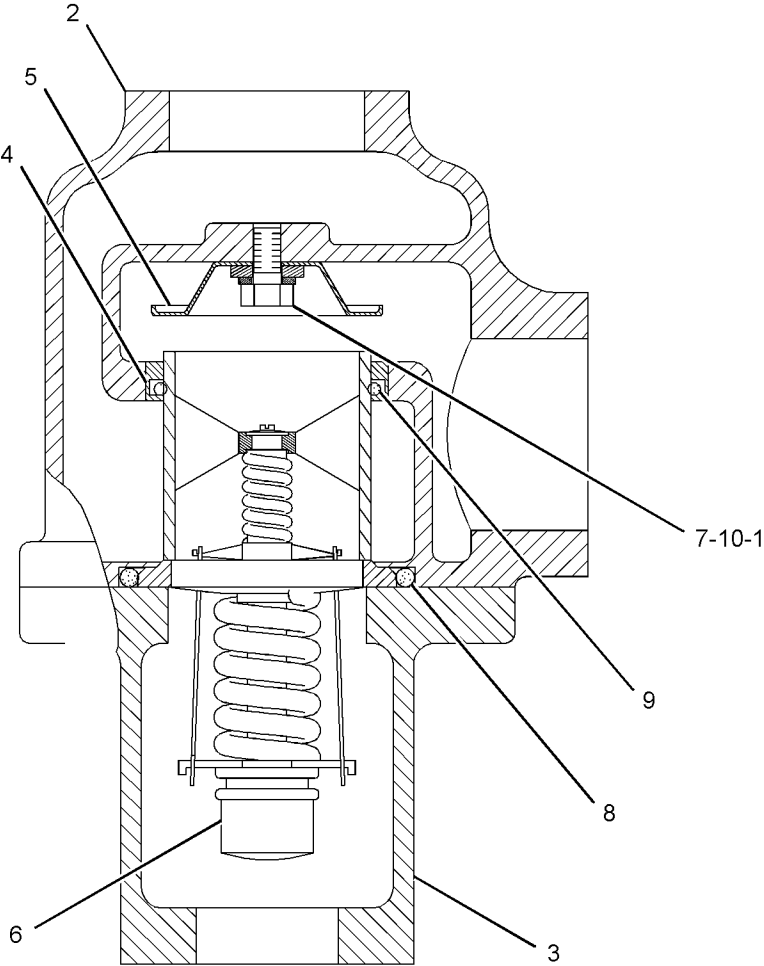
150-0372 VALVE GP - THERMOSTATIC

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-5074

i02370364

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1Y-0462	1	WASHER (0.328X0.81X0.125-IN THK)						
	2	1	4P-1503	1	HOUSING-UPPER						
	3	1	4P-1504	1	HOUSING-LOWER						
	4	1	4P-1511	1	SLEEVE						
	5	1	4P-1525	1	SEAT						
	6	1	151-6017	1	REGULATOR AS-WATER TEMPERATURE (110-DEG F)						
	7	1	2H-3755	1	BOLT (5/16-18X0.43-IN)						
	8	1	6V-1454	1	SEAL-O-RING						
	9	1	8T-1703	1	SEAL-O-RING						
	10	1	8T-4224	1	WASHER-HARD (8.8X16X2-MM THK)						



GRAPHIC #1

<END>

g01240639

COOLING SYSTEM

151-6018 VALVE GP-THERMOSTATIC

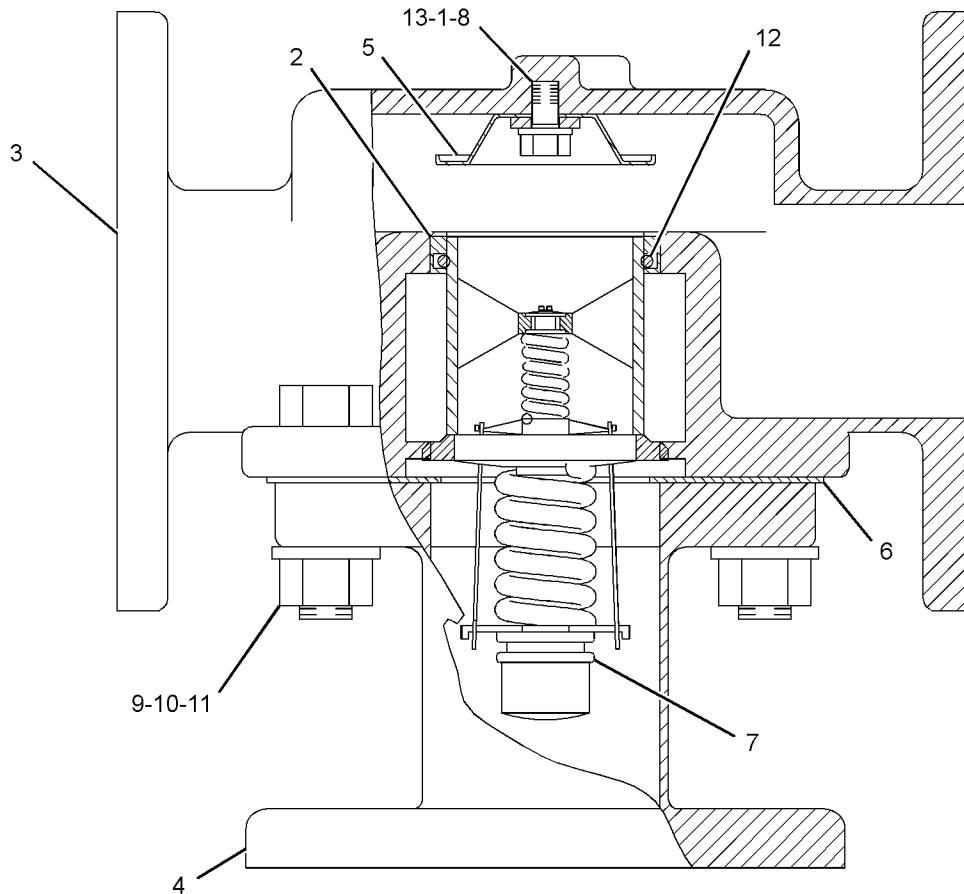
S/N: ZBA1-471

PART OF 151-6020 REGULATOR GP-TEMPERATURE

SMCS-5074

i02370677

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1Y-0462	2	WASHER (0.328X0.81X0.125-IN THK)						
	2	1	4P-1511	2	SLEEVE						
	3	1	4P-1523	1	HOUSING-UPPER						
	4	1	4P-1524	1	HOUSING-LOWER						
	5	1	4P-1525	2	SEAT						
	6	1	4P-1526	1	GASKET						
	7	1	151-6017	2	REGULATOR AS-WATER TEMPERATURE (110-DEG F)						
	8	1	2H-3755	2	BOLT (5/16-18X0.43-IN)						
	9	1	5P-8247	4	WASHER-HARD (17X32X3.5-MM THK)						
	10	1	7X-0347	4	BOLT (5/8-11X2.25-IN)						
	11	1	7X-0448	4	NUT (5/8-11-THD)						
	12	1	8T-1703	2	SEAL-O-RING						
	13	1	8T-4224	2	WASHER-HARD (8.8X16X2-MM THK)						



GRAPHIC #1

<END>

g01240481

COOLING SYSTEM

170-7707 VALVE GP-THERMOSTATIC

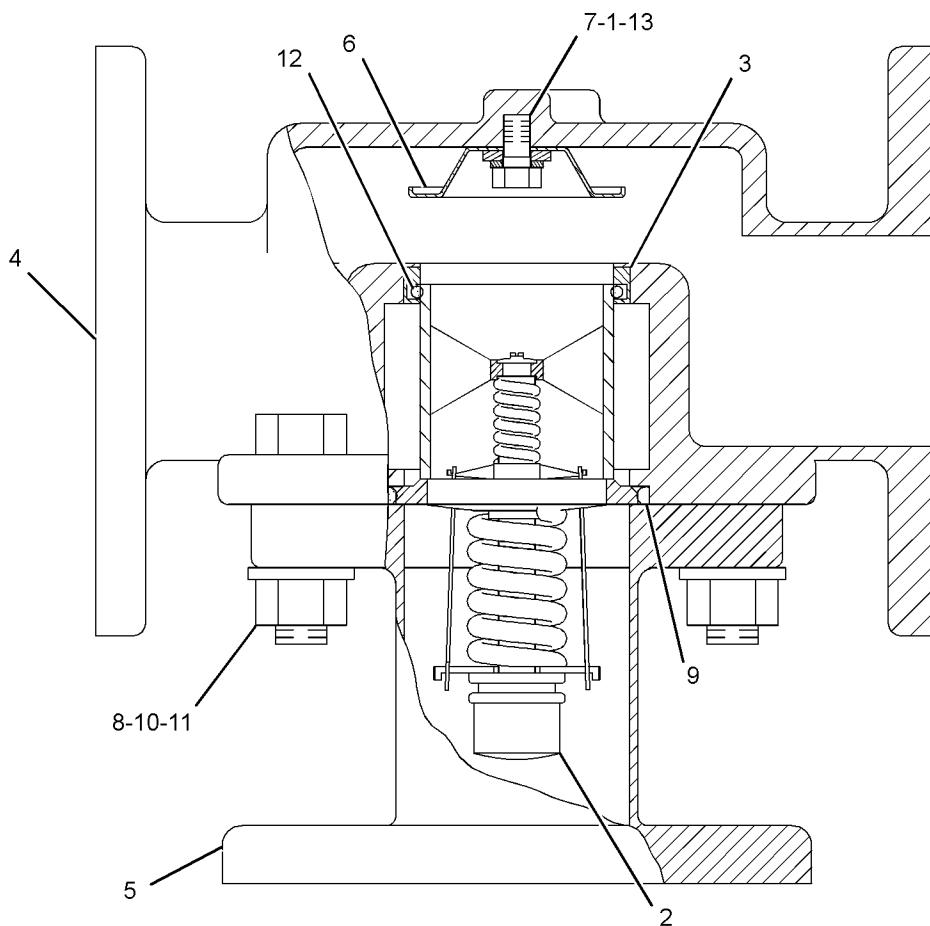
S/N: ZBA1-UP

PART OF 7E-4802 REGULATOR GP-TEMPERATURE
ALSO AN ATTACHMENT

SMCS-5074

i02768150

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1Y-0462	2	WASHER (0.328X0.81X0.125-IN THK)						
	2	1	4P-1506	2	REGULATOR AS-WATER TEMPERATURE (60-DEG C)						
	3	1	4P-1511	2	SLEEVE						
	4	1	4P-1523	1	HOUSING-UPPER						
	5	1	4P-1524	1	HOUSING-LOWER						
	6	1	4P-1525	2	SEAT						
	7	1	2H-3755	2	BOLT (5/16-18X0.43-IN)						
	8	1	5P-8247	4	WASHER-HARD (17X32X3.5-MM THK)						
	9	1	6V-1454	2	SEAL-O-RING						
	10	1	7X-0347	4	BOLT (5/8-11X2.25-IN)						
	11	1	7X-0448	4	NUT (5/8-11-THD)						
	12	1	8T-1703	2	SEAL-O-RING						
	13	1	8T-4224	2	WASHER-HARD (8.8X16X2-MM THK)						



GRAPHIC #1

<END>

g01241377

AIR INLET AND EXHAUST SYSTEM

9Y-3187 ACCUMULATOR GP - TURBOCHARGER-TURBOCHARGER OIL

S/N: ZBA1-UP

FOR USE WITH ENGINES EQUIPPED WITH AIR TO AIR AFTERCOOLER
AN ATTACHMENT

SMCS-1320

i02835195

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	2	1W-8129	4	SUPPORT	
	2	1	3K-5670	1	SPRING	
I	3	1	6S-5874	1	HOSE AS	
	4	1	9C-4433	1	STRAP	
	5	1	9C-4434	1	BRACKET AS	
	5A	1	9C-4453	1	BAR	
	6	1	9M-4594	1	SPACER (0.406X0.875X0.75-IN THK)	
	7	1	9Y-3188	1	ADAPTER-SUPPLY	
	8	1	9Y-3189	1	PLUG	
	9	2	9Y-3191	1	PLATE	
	10	2	9Y-3192	1	PLATE	
C	11	1	9Y-5312	1	PLATE	
	12	1	9Y-5587	1	ACCUMULATOR AS	
		1	5P-3779	1	TAG-NOTICE (CYLINDER PRESSURE)	
		1	9T-7347	1	KIT-SEAL (ACCUMULATOR)	
	13	1	068-3704	4	SPACER (0.459X0.625X1.188-IN THK)	
	14	1	250-1498	1	ELBOW AS	
		1	6V-4589	1	SEAL-O-RING	
		1	250-1497	1	ELBOW	
	15	1	061-9456	2	SEAL-O-RING	
	16	2	0L-1351	3	BOLT (3/8-16X0.875-IN)	
	17	1	0L-1352	4	BOLT (3/8-16X3.25-IN)	
	18	1	0S-1588	4	BOLT (3/8-16X1.25-IN)	
	19	1	0S-1591	1	BOLT (3/8-16X1.5-IN)	
C	20	1,2	0T-0573	12	BOLT (3/8-16X2.75-IN)	
	21	2	1D-4556	1	BOLT (7/16-14X2.75-IN)	
	22	1	1F-7958	2	NUT-FULL (1/2-13-THD)	
	23	2	1P-7625	1	ELBOW	
	24	1	2M-9780	2	SEAL-O-RING	
	25	1	3D-2824	1	SEAL-O-RING	
	26	2	3K-0360	1	SEAL-O-RING	
	27	1,2	3S-1546	1	NUT-FULL (7/16-14-THD)	
	28	2	4K-7502	3	BOLT (1/2-20X1.375-IN)	
	29	1	5F-6199	1	BALL	
C	30	1,2	5M-2894	16	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	31	2	5P-3903	1	ADAPTER-O-RING	
	32	2	5P-8244	2	WASHER-HARD (12X22.5X2.5-MM THK)	
	33	1,2	5P-8245	7	WASHER-HARD (13.5X25.5X3-MM THK)	
	34	2	6K-6307	1	SEAL-O-RING	
	35	1	7B-3235	2	BOLT (1/2-13X1.375-IN)	
	36	1	7M-8485	1	SEAL-O-RING	
C	37	1	8B-2026	4	SPACER (0.438X0.75X1.5-IN THK)	
	38	2	8S-9191	4	BOLT (3/8-16X4-IN)	
	39	1	8T-6762	1	PLUG-PIPE	
	40	1	9M-4584	2	CONNECTOR	
	41	1	9S-4183	1	PLUG-O-RING	
	42	1	9S-8752	8	NUT-FULL (3/8-16-THD)	

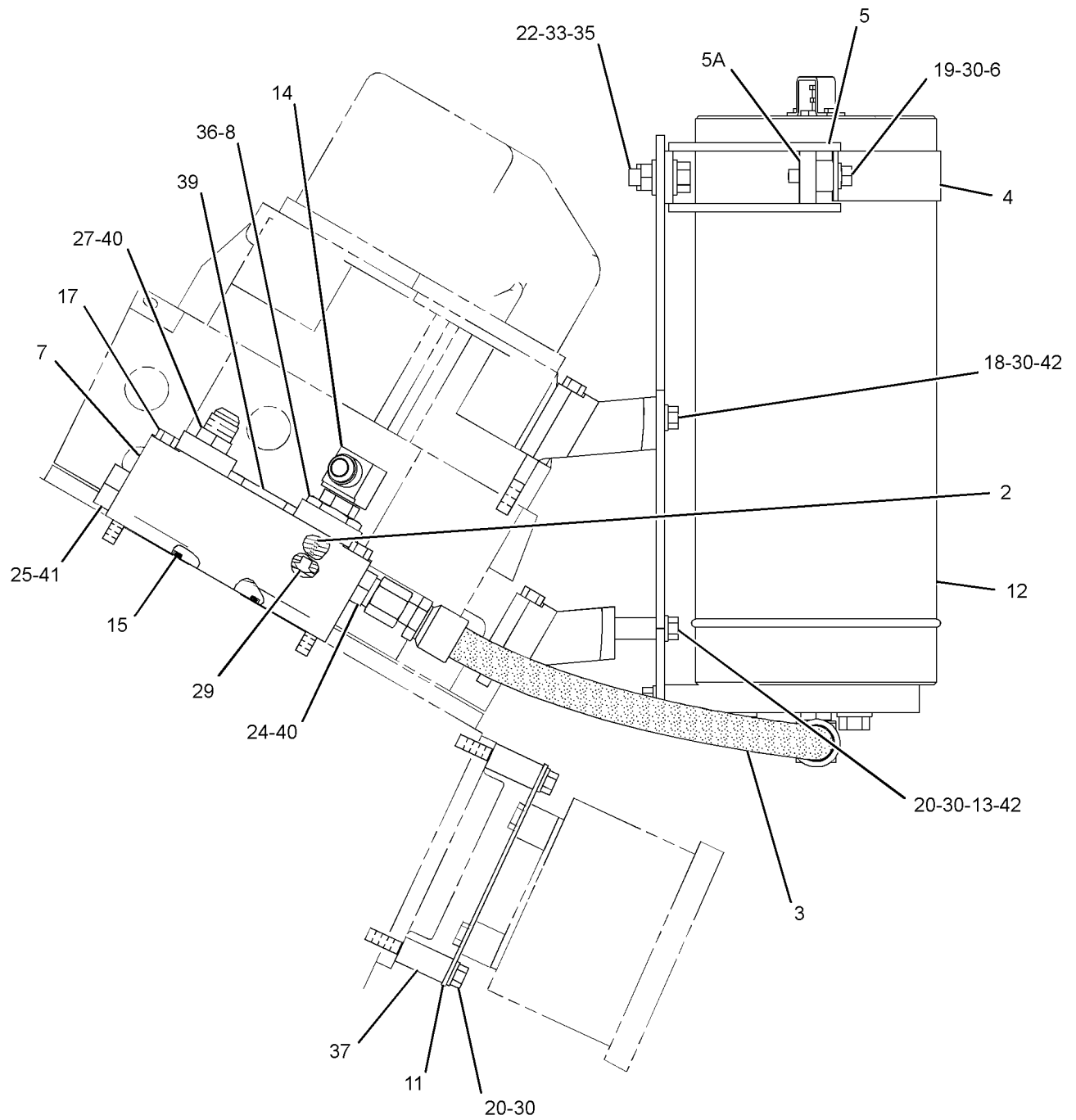
C- CHANGE FROM PREVIOUS TYPE

I- REFER TO HYDRAULIC INFORMATION SYSTEM

AIR INLET AND EXHAUST SYSTEM

9Y-3187 ACCUMULATOR GP - TURBOCHARGER (contd.)

i02835195



REAR VIEW OF ENGINE

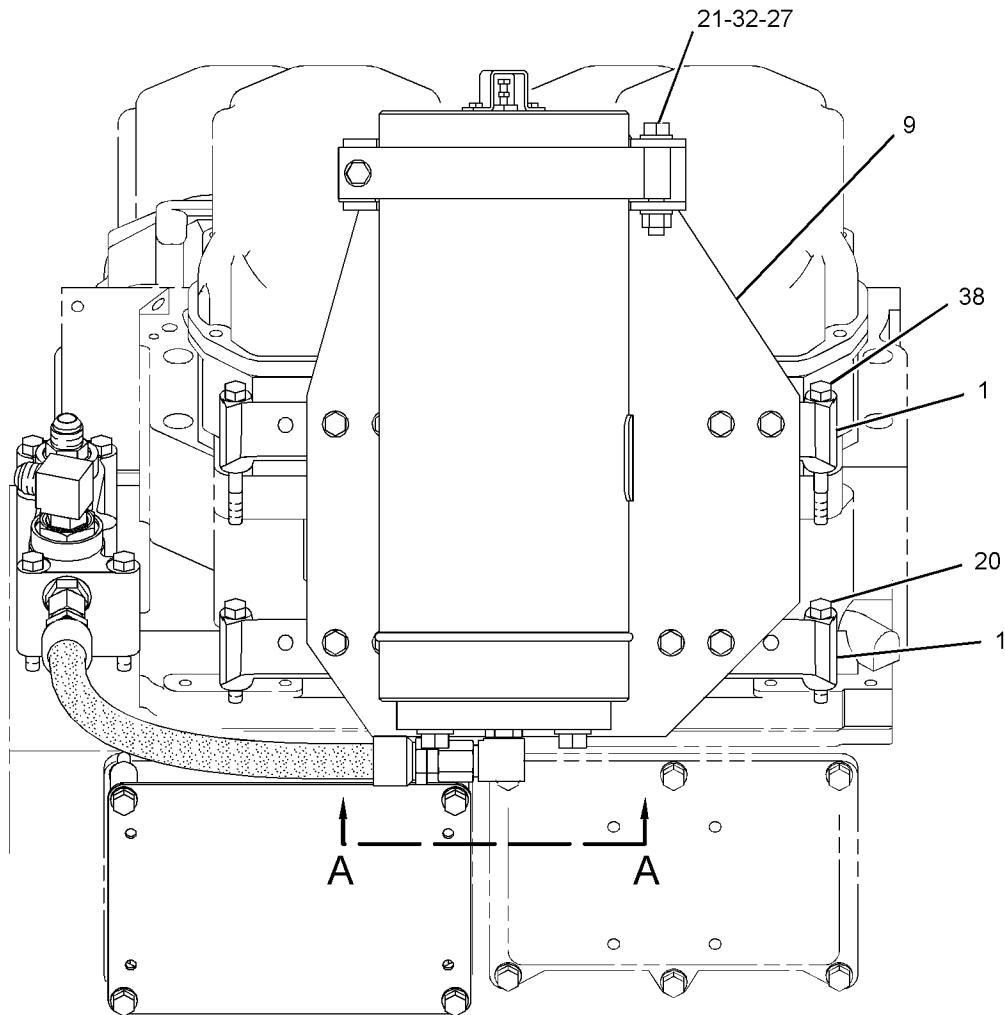
GRAPHIC #1

g01364234

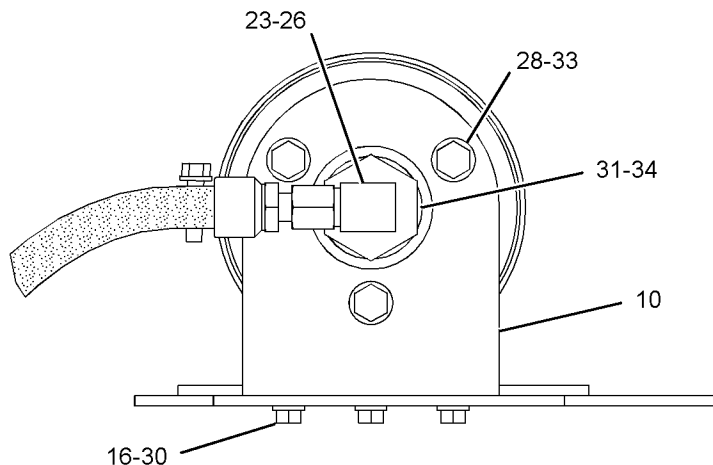
AIR INLET AND EXHAUST SYSTEM

9Y-3187 ACCUMULATOR GP - TURBOCHARGER (contd.)

i02835195



RIGHT SIDE VIEW OF ENGINE



VIEW A-A

<END>

GRAPHIC #2

g01364243

AIR INLET AND EXHAUST SYSTEM

5N-7823 ADAPTER GP-AIR CLEANER

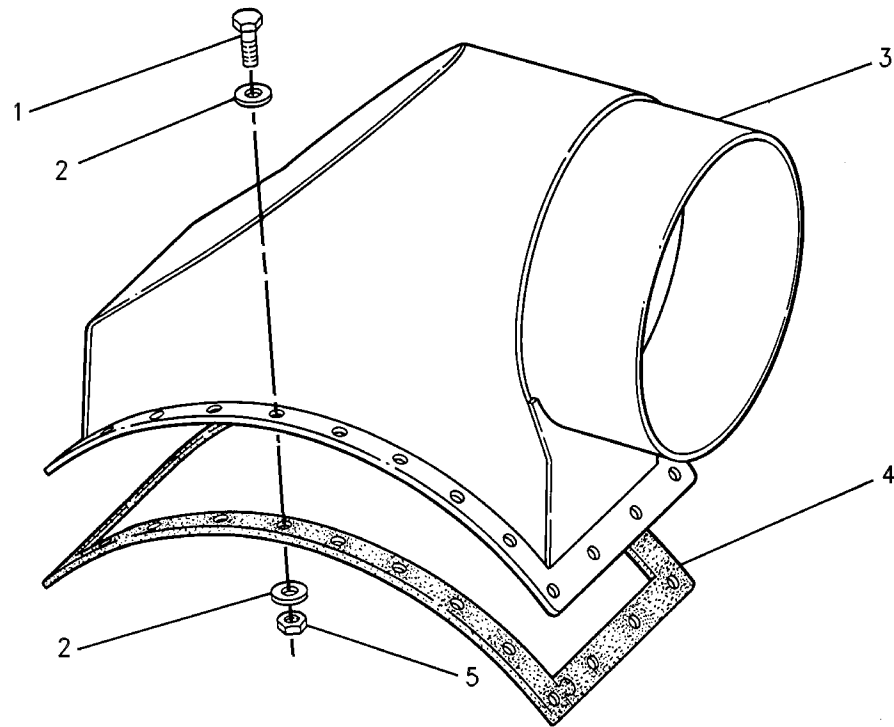
S/N: ZBA1-UP

FOR USE WITH 5N-7831-PAGE 511, RATED SPEED 2100-RPM ENGINE
AN ATTACHMENT

SMCS-1051

i02809104

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-9043	24	BOLT (5/16-18X0.875-IN)						
	2	1	8T-4224	48	WASHER-HARD (8.8X16X2-MM THK)						
	3	1	5N-7824	1	ADAPTER AS						
	4	1	5N-7830	1	GASKET						
	5	1	031-4155	24	LOCKNUT (5/16-18-THD)						



GRAPHIC #1

<END>

g00474156

AIR INLET AND EXHAUST SYSTEM

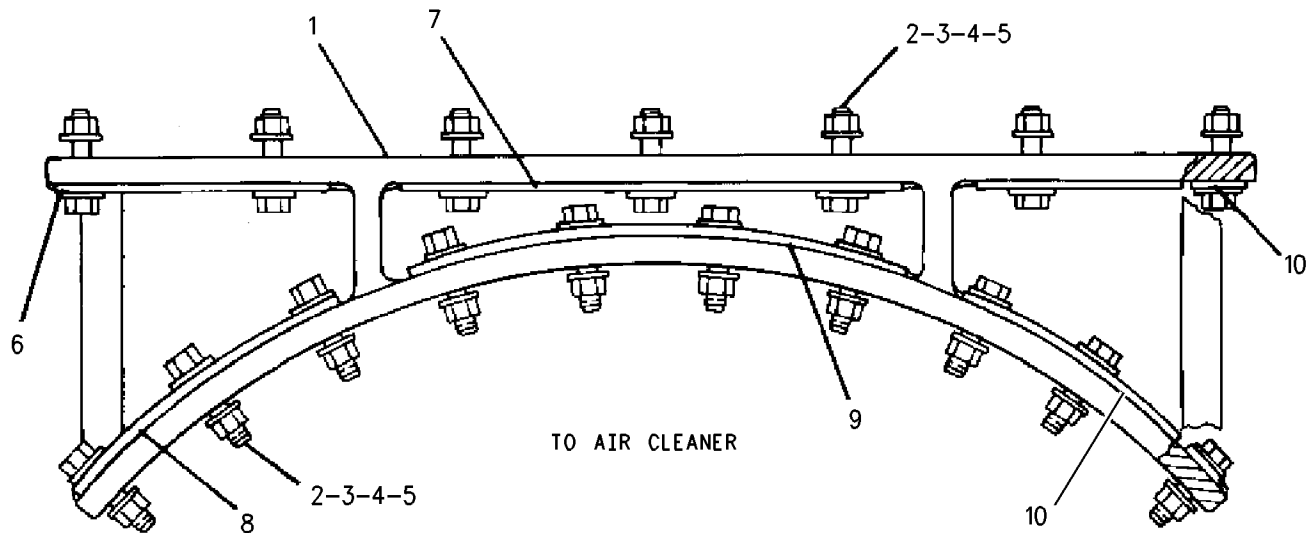
7N-8549 ADAPTER GP-AIR CLEANER

S/N: ZBA1-UP
FOR USE WITH 10-INCH AIR CLEANER
AN ATTACHMENT

SMCS-1051

i02220726

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7N-7416	2	ADAPTER-AIR CLEANER						
	2	1	4M-6425	84	BOLT (5/16-18X1-IN)						
	3	1	8T-4224	168	WASHER-HARD (8.8X16X2-MM THK)						
	4	1	7D-4493	84	TUBE						
	5	1	6V-8189	84	NUT (5/16-18-THD)						
	6	1	1W-0431	8	STRIP						
	7	1	1W-0432	4	STRIP						
	8	1	1W-0433	8	STRIP						
	9	1	1W-0434	4	STRIP						
	10	1	1W-0494	8	STRIP						



GRAPHIC #1

<END>

g00820859

AIR INLET AND EXHAUST SYSTEM

7W-9828 ADAPTER GP-AIR CLEANER

S/N: ZBA1-UP

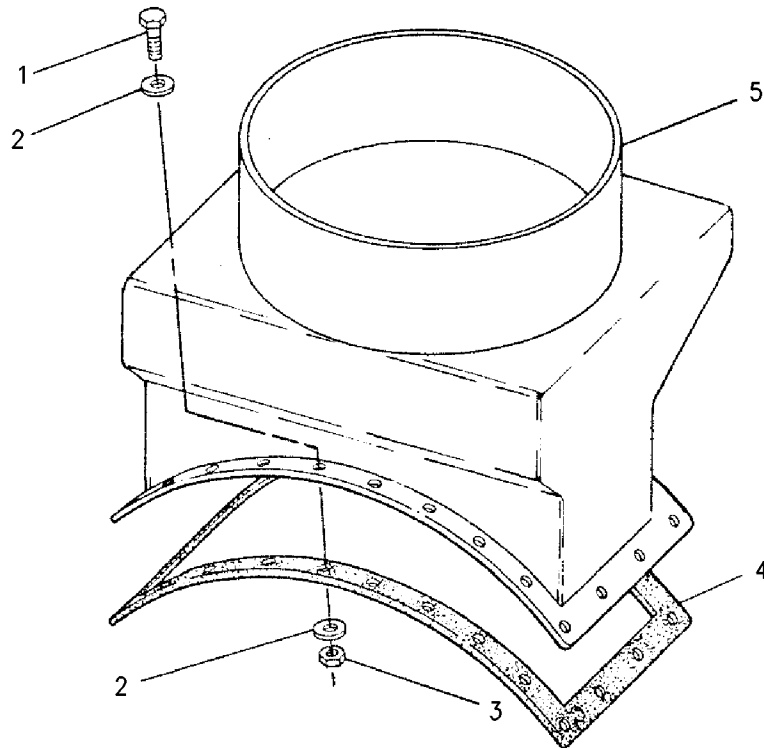
FOR USE WITH 12-INCH INNER DIAMETER DUCTING
AN ATTACHMENT

SMCS-1051

i02220736

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-9043	48	BOLT (5/16-18X0.875-IN)						
	2	1	8T-4224	96	WASHER-HARD (8.8X16X2-MM THK)						
	3	1	031-4155	48	LOCKNUT (5/16-18-THD)						
	4	1	5N-7830	2	GASKET						
	5	1	7W-9829	2	ADAPTER AS						

QUANTITIES SHOWN ARE THOSE REQUIRED FOR BOTH LH AND RH SIDES



GRAPHIC #1

<END>

g00826427

AIR INLET AND EXHAUST SYSTEM

121-7545 AFTERCOOLER GP-AIR

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1063

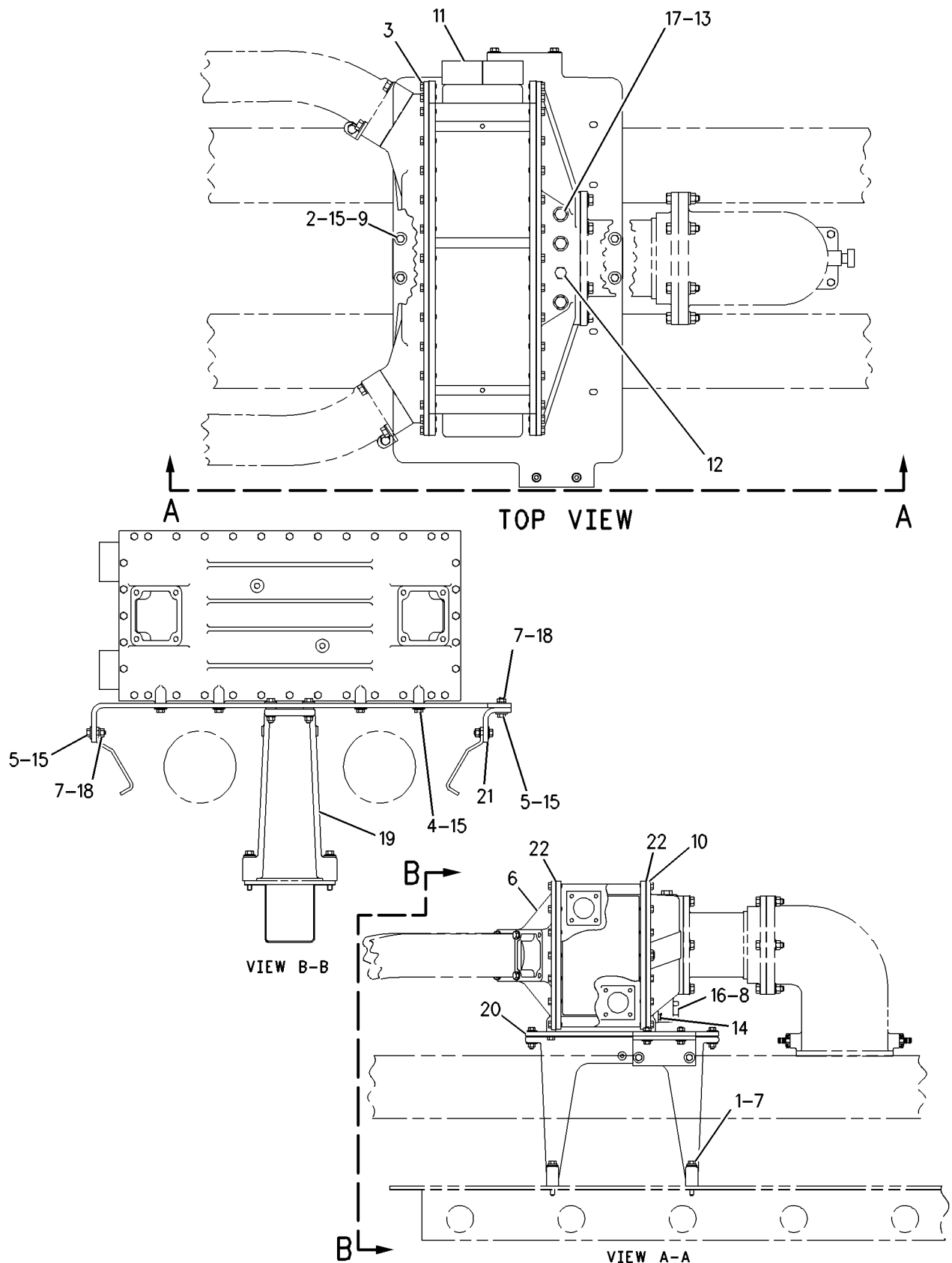
i02230834

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	0L-1143	4	BOLT (3/8-16X2.5-IN)						
	2	1	0S-1571	4	BOLT (3/8-16X1.75-IN)						
	3	1	0S-1594	72	BOLT (3/8-16X1-IN)						
	4	1	1A-2029	8	BOLT (3/8-16X1.125-IN)						
	5	1	3B-1915	6	BOLT (3/8-16X1.375-IN)						
	6	1	4W-9852	1	HOUSING-REAR						
	7	1	5M-2894	10	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	8	1	5P-7701	1	SEAL-O-RING						
	9	1	6V-8801	4	NUT (3/8-16-THD)						
	10	1	7E-1823	1	HOUSING-FRONT						
	11	1	7E-3568	1	CORE AS-AFTERCOOLER						
	12	1	7W-6492	1	PLUG-PIPE						
	13	1	8L-2786	3	SEAL-O-RING						
	14	1	8T-6765	1	PLUG-PIPE						
	15	1	9L-9132	18	WASHER (10.2X25.5X2.5-MM THK)						
	16	1	9S-4181	1	PLUG-O-RING						
	17	1	9S-4185	3	PLUG-O-RING						
	18	1	9S-8752	6	NUT-FULL (3/8-16-THD)						
	19	1	121-3339	1	SUPPORT						
	20	1	121-7543	1	PLATE						
	21	1	122-9785	1	BRACKET						
	22	1	152-5705	2	GASKET						

AIR INLET AND EXHAUST SYSTEM

121-7545 AFTERCOOLER GP-AIR (contd.)

i02230834



GRAPHIC #1

<END>

g00904947

AIR INLET AND EXHAUST SYSTEM

152-5454 AFTERCOOLER GP-AIR

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1063

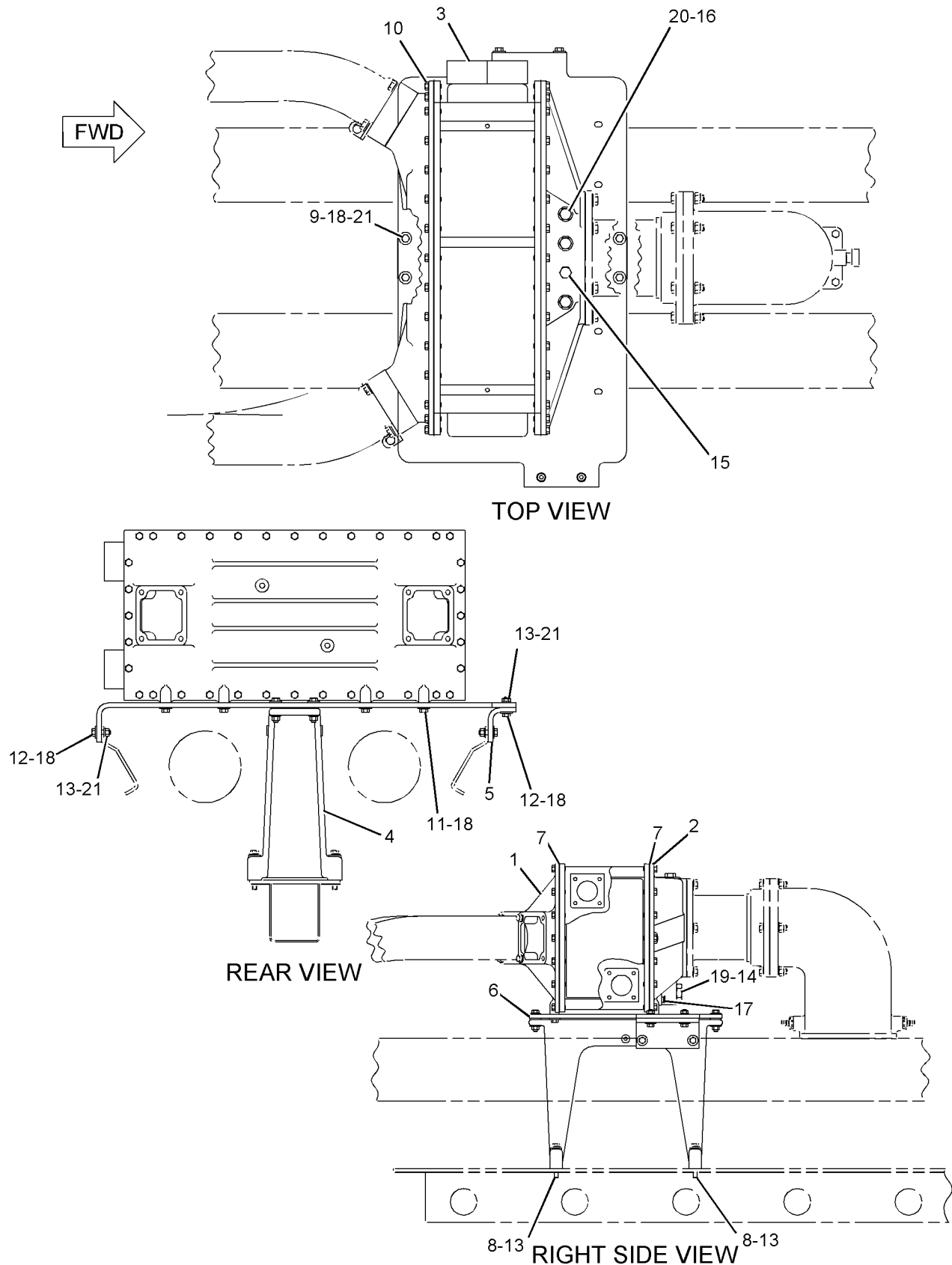
i02868475

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4W-9852	1	HOUSING-REAR						
	2	1	7E-1823	1	HOUSING-FRONT						
	3	1	115-1576	1	CORE AS-AFTERCOOLER						
	4	1	121-3339	1	SUPPORT						
	5	1	122-9785	1	BRACKET						
	6	1	151-8088	1	PLATE						
	7	1	152-5705	2	GASKET						
	8	1	0L-1143	4	BOLT (3/8-16X2.5-IN)						
	9	1	0S-1571	4	BOLT (3/8-16X1.75-IN)						
	10	1	0S-1594	72	BOLT (3/8-16X1-IN)						
	11	1	1A-2029	8	BOLT (3/8-16X1.125-IN)						
	12	1	3B-1915	6	BOLT (3/8-16X1.375-IN)						
	13	1	5M-2894	10	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	14	1	5P-7701	1	SEAL-O-RING						
	15	1	7W-6492	1	PLUG-PIPE						
	16	1	8L-2786	3	SEAL-O-RING						
	17	1	8T-6765	1	PLUG-PIPE						
	18	1	9L-9132	18	WASHER (10.2X25.5X2.5-MM THK)						
	19	1	9S-4181	1	PLUG-O-RING						
	20	1	9S-4185	3	PLUG-O-RING						
	21	1	9S-8752	10	NUT-FULL (3/8-16-THD)						

AIR INLET AND EXHAUST SYSTEM

152-5454 AFTERCOOLER GP-AIR (contd.)

i02868475



GRAPHIC #1

<END>

g01126018

AIR INLET AND EXHAUST SYSTEM

4P-5698 AFTERCOOLER GP-RAW WATER

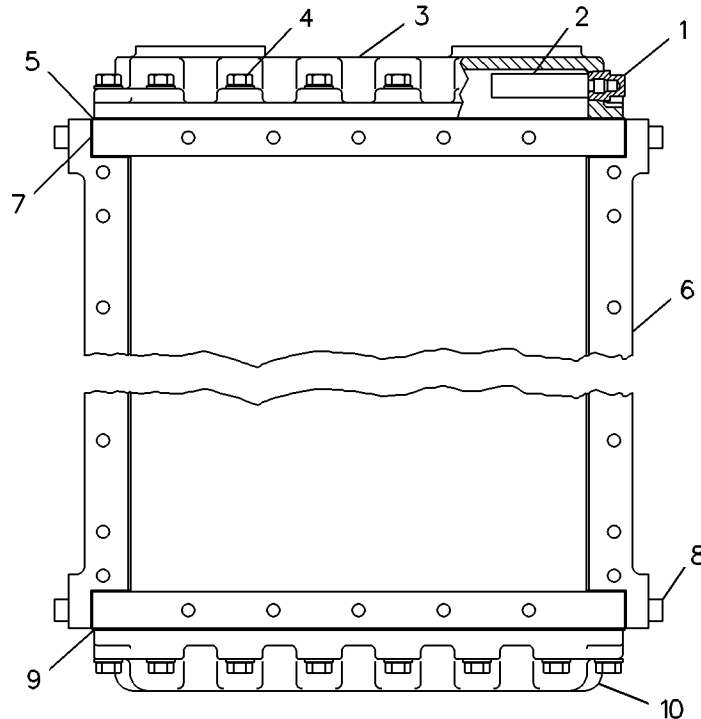
S/N: ZBA1-UP

PART OF 4P-7448 AFTERCOOLER GP-RAW WATER
AN ATTACHMENT

SMCS-1063

i02551526

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5B-9169	2	PLUG-DRAIN (AFTERCOOLER)						
	2	1	6L-2288	2	ROD-ZINC (AFTERCOOLER)						
	3	1	4P-0331	1	BONNET						
	4	1	0S-1588	40	BOLT (3/8-16X1.25-IN)						
		1	5M-2894	40	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	5	1	7W-5901	1	GASKET						
	6	1	7W-8315	1	CORE AS-AFTERCOOLER						
	7	1	7W-5902	4	GASKET						
	8	1	2D-4534	24	BOLT-SOCKET HEAD (3/8-16X1-IN)						
	9	1	7W-5900	1	GASKET						
	10	1	7W-5956	1	BONNET-WATER						



GRAPHIC #1

<END>

g00224984

AIR INLET AND EXHAUST SYSTEM

4P-7448 AFTERCOOLER GP - RAW WATER

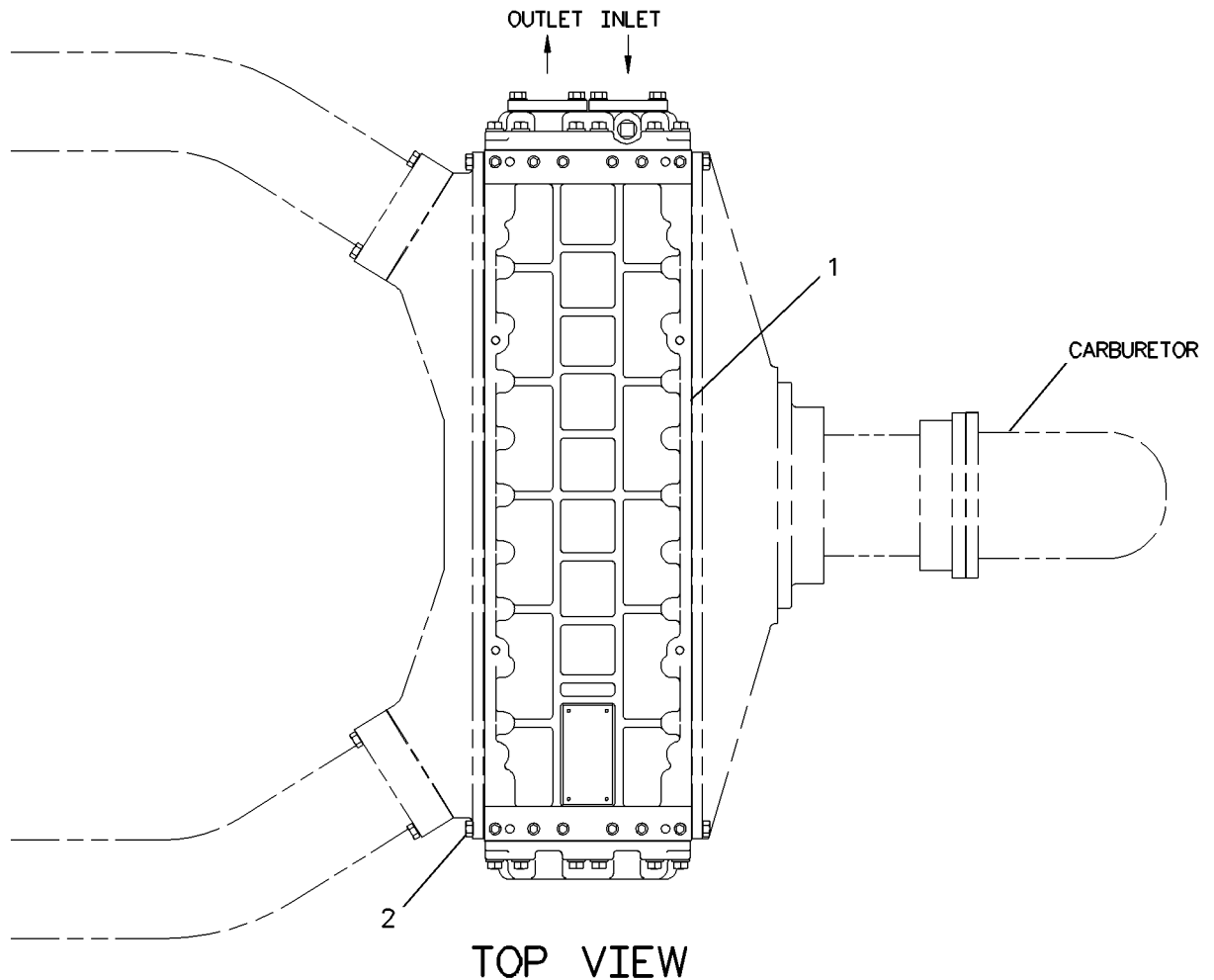
S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1063

i02220687

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	4P-5698	1	AFTERCOOLER GP - RAW WATER	402
	2	1	OS-1594	20	BOLT (3/8-16X1-IN)	

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00870571

AIR INLET AND EXHAUST SYSTEM

161-0526 AFTERCOOLER GP-RAW WATER

S/N: ZBA1-UP

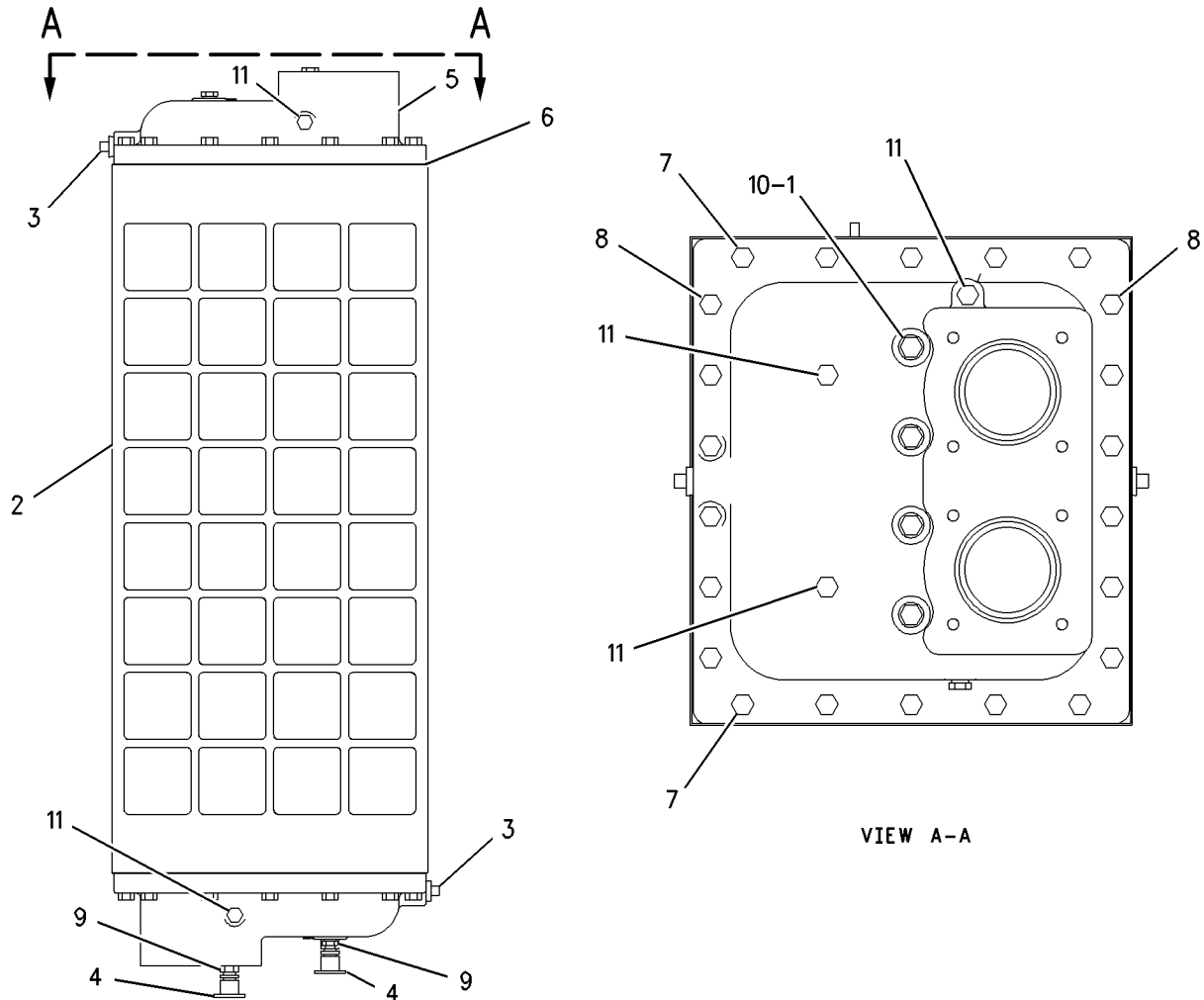
PART OF 168-3640 AFTERCOOLER GP-WATER

SMCS-1063

i02864711

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	5B-0213	8	BOLT (3/8-16X2.375-IN)	
	2	1	115-8164	1	CORE AS-AFTERCOOLER	
	3	1	115-8167	2	ROD-ZINC (AFTERCOOLER)	
	4	1	157-0670	2	CAP-DUST	
	5	1	169-0456	2	BONNET	
C	6	1	185-7724	2	GASKET	
	7	1	0L-2070	20	BOLT (3/8-16X2.25-IN)	
	8	1	0S-1588	24	BOLT (3/8-16X1.25-IN)	
	9	1	154-9025	2	VALVE-FLUID SAMPLING (COOLANT)	
	10	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)	
C	11	1	8T-6765	6	PLUG-PIPE	

C- CHANGE FROM PREVIOUS TYPE



g00825302

AIR INLET AND EXHAUST SYSTEM

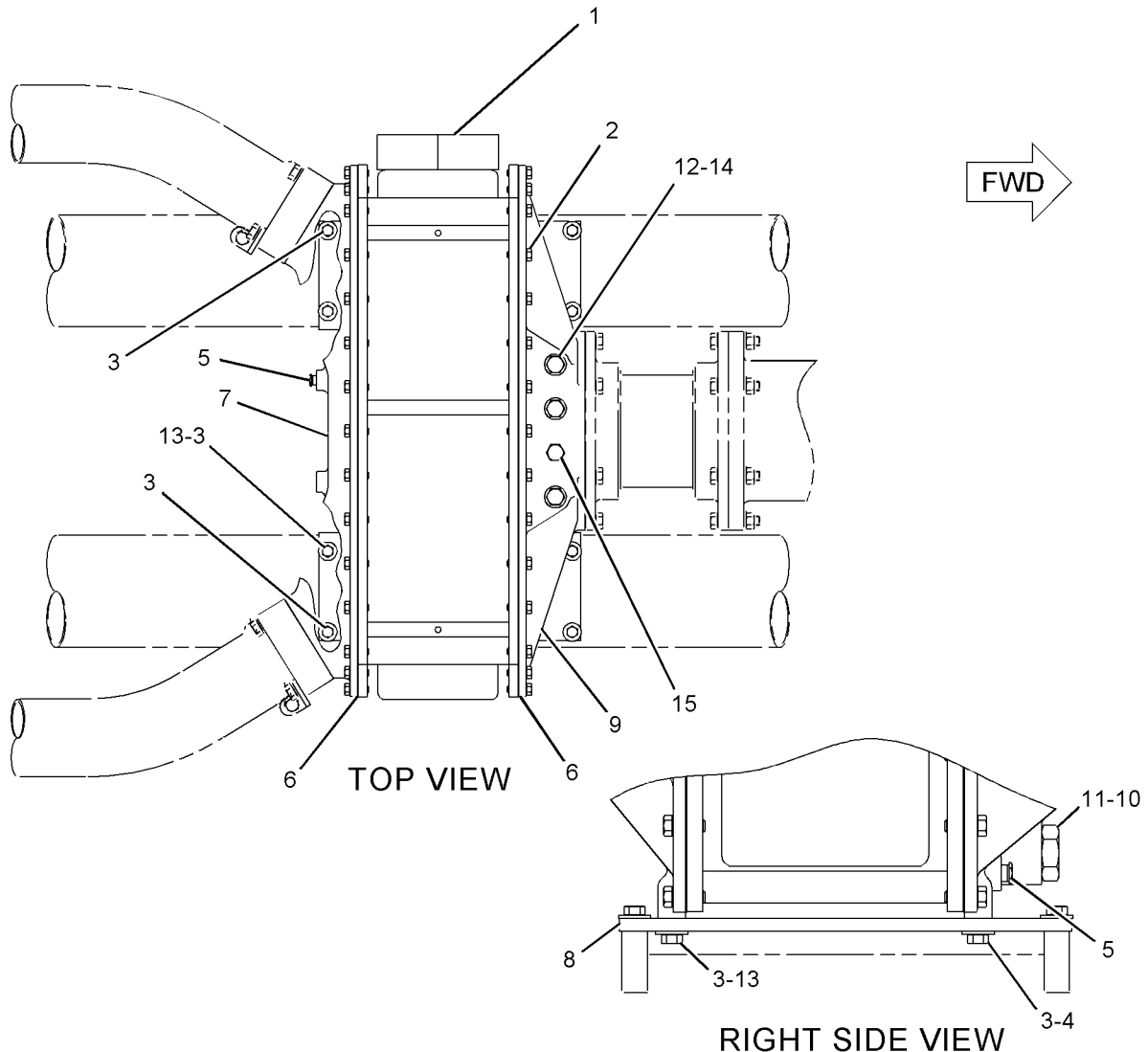
4P - 8950 AFTERCOOLER GP - TREATED WATER

S/N: ZBA1-UP

SMCS - 1063

i02230858

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-3568	1	CORE AS-AFTERCOOLER						
	2	1	0S-1594	72	BOLT (3/8-16X1-IN)						
	3	1	1A-2029	16	BOLT (3/8-16X1.125-IN)						
	4	1	9L-9132	4	WASHER (10.2X25.5X2.5-MM THK)						
	5	1	8T-6765	2	PLUG-PIPE						
	6	1	152-5705	2	GASKET						
	7	1	4W-9852	1	HOUSING-REAR						
	8	1	4W-6493	2	PLATE						
	9	1	7E-1823	1	HOUSING-FRONT						
	10	1	5P-7701	1	SEAL-O-RING						
	11	1	9S-4181	1	PLUG-O-RING						
	12	1	9S-4185	3	PLUG-O-RING						
	13	1	5M-2894	12	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	14	1	8L-2786	3	SEAL-O-RING						
	15	1	7W-6492	1	PLUG-PIPE						



GRAPHIC #1

<END>

g01123891

AIR INLET AND EXHAUST SYSTEM

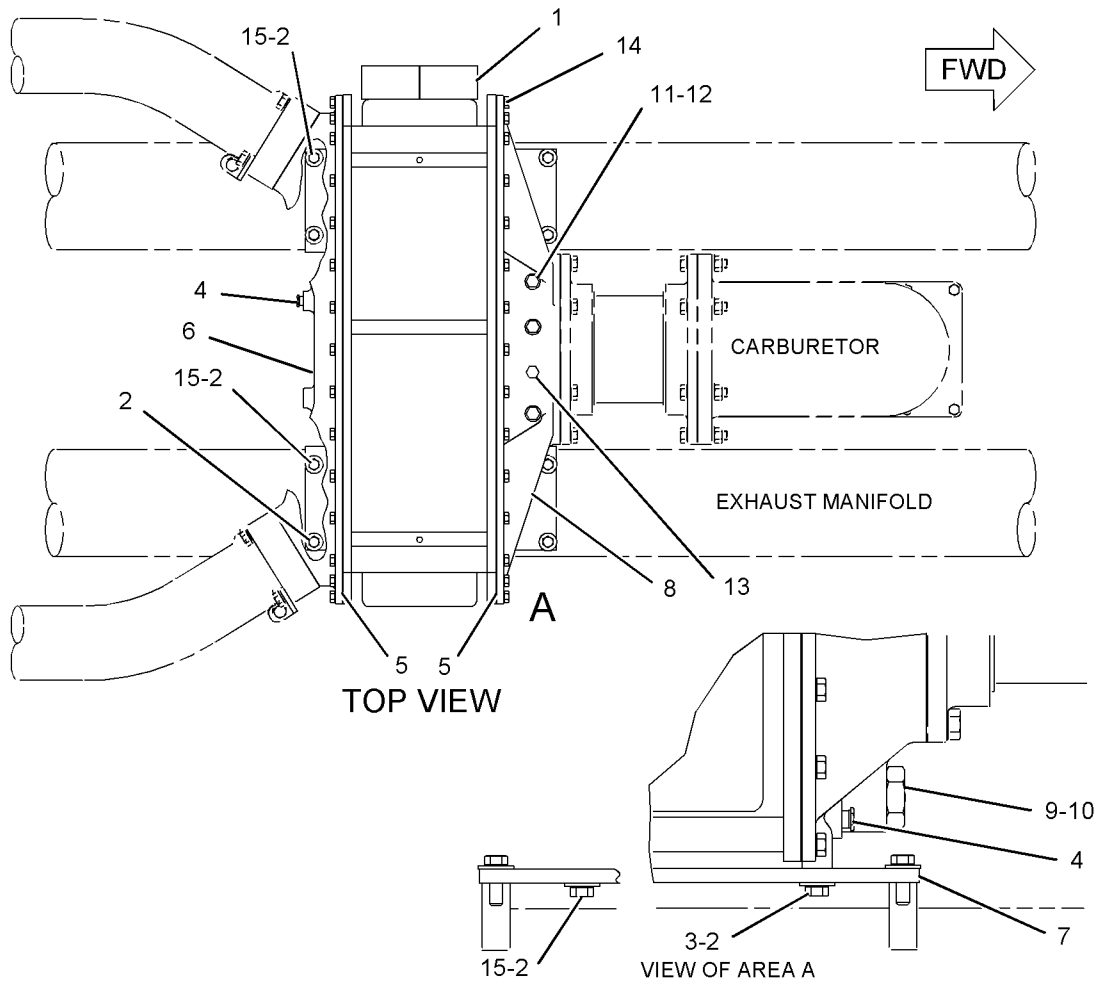
115-1577 AFTERCOOLER GP-TREATED WATER

S/N: ZBA1-UP
ALSO AN ATTACHMENT

SMCS-1063

i02230832

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	115-1576	1	CORE AS-AFTERCOOLER						
	2	1	1A-2029	16	BOLT (3/8-16X1.125-IN)						
	3	1	9L-9132	4	WASHER (10.2X25.5X2.5-MM THK)						
	4	1	8T-6765	2	PLUG-PIPE						
	5	1	152-5705	2	GASKET						
	6	1	4W-9852	1	HOUSING-REAR						
	7	1	4W-6493	2	PLATE						
	8	1	7E-1823	1	HOUSING-FRONT						
	9	1	9S-4181	1	PLUG-O-RING						
	10	1	5P-7701	1	SEAL-O-RING						
	11	1	9S-4185	3	PLUG-O-RING						
	12	1	8L-2786	3	SEAL-O-RING						
	13	1	7W-6492	1	PLUG-PIPE						
	14	1	0S-1594	72	BOLT (3/8-16X1-IN)						
	15	1	5M-2894	12	WASHER-HARD (10.2X18.5X2.5-MM THK)						



GRAPHIC #1

<END>

g01126022

AIR INLET AND EXHAUST SYSTEM

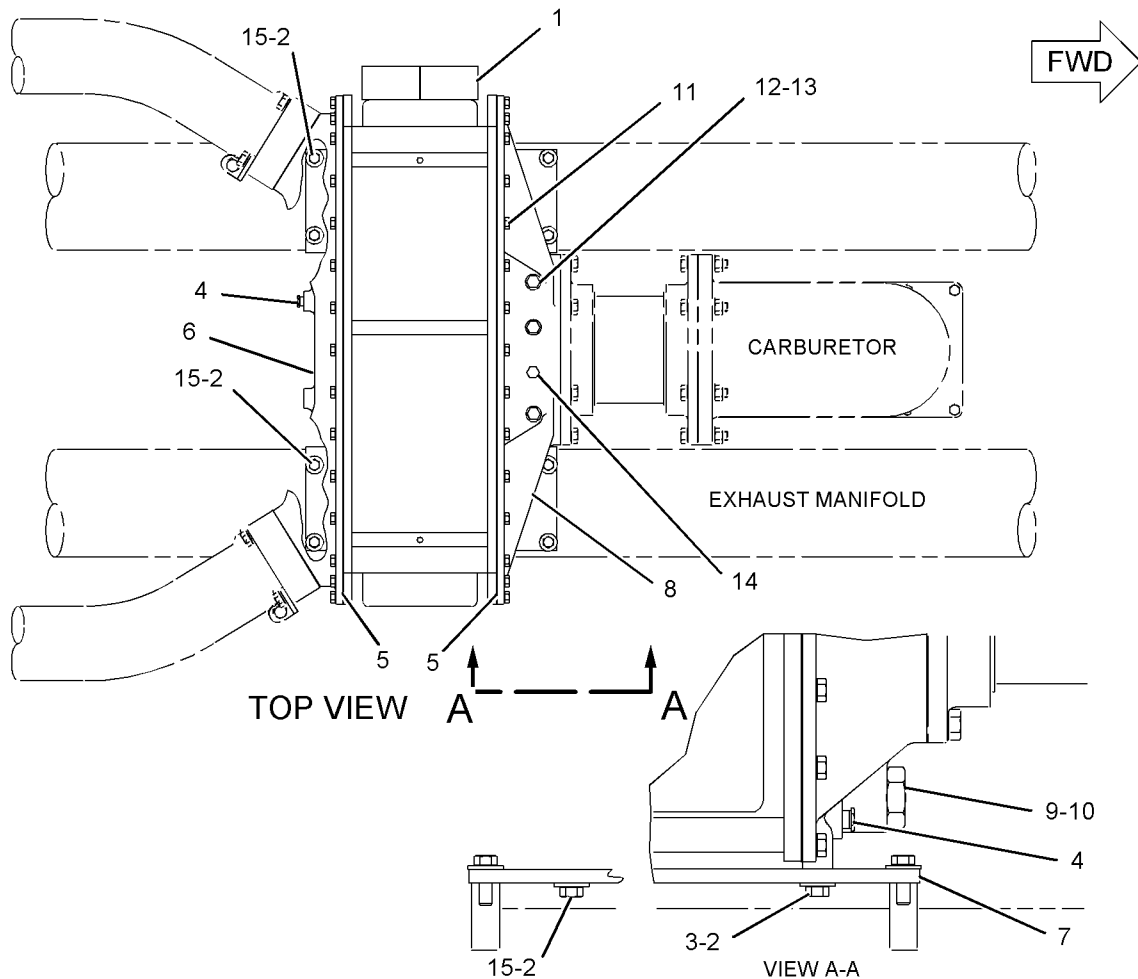
119-1660 AFTERCOOLER GP-TREATED WATER

S/N: ZBA1-UP

SMCS-1063

i02230833

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4P-7207	1	CORE AS-AFTERCOOLER						
	2	1	1A-2029	16	BOLT (3/8-16X1.125-IN)						
	3	1	9L-9132	4	WASHER (10.2X25.5X2.5-MM THK)						
	4	1	8T-6765	2	PLUG-PIPE						
	5	1	152-5705	2	GASKET						
	6	1	4W-9852	1	HOUSING-REAR						
	7	1	4W-6493	2	PLATE						
	8	1	7E-1823	1	HOUSING-FRONT						
	9	1	9S-4181	1	PLUG-O-RING						
	10	1	5P-7701	1	SEAL-O-RING						
	11	1	0S-1594	72	BOLT (3/8-16X1-IN)						
	12	1	9S-4185	3	PLUG-O-RING						
	13	1	8L-2786	3	SEAL-O-RING						
	14	1	7W-6492	1	PLUG-PIPE						
	15	1	5M-2894	12	WASHER-HARD (10.2X18.5X2.5-MM THK)						



GRAPHIC #1

<END>

g01126069

AIR INLET AND EXHAUST SYSTEM

168-3640 AFTERCOOLER GP-WATER

S/N: ZBA1-UP

SMCS-1063

i02006780

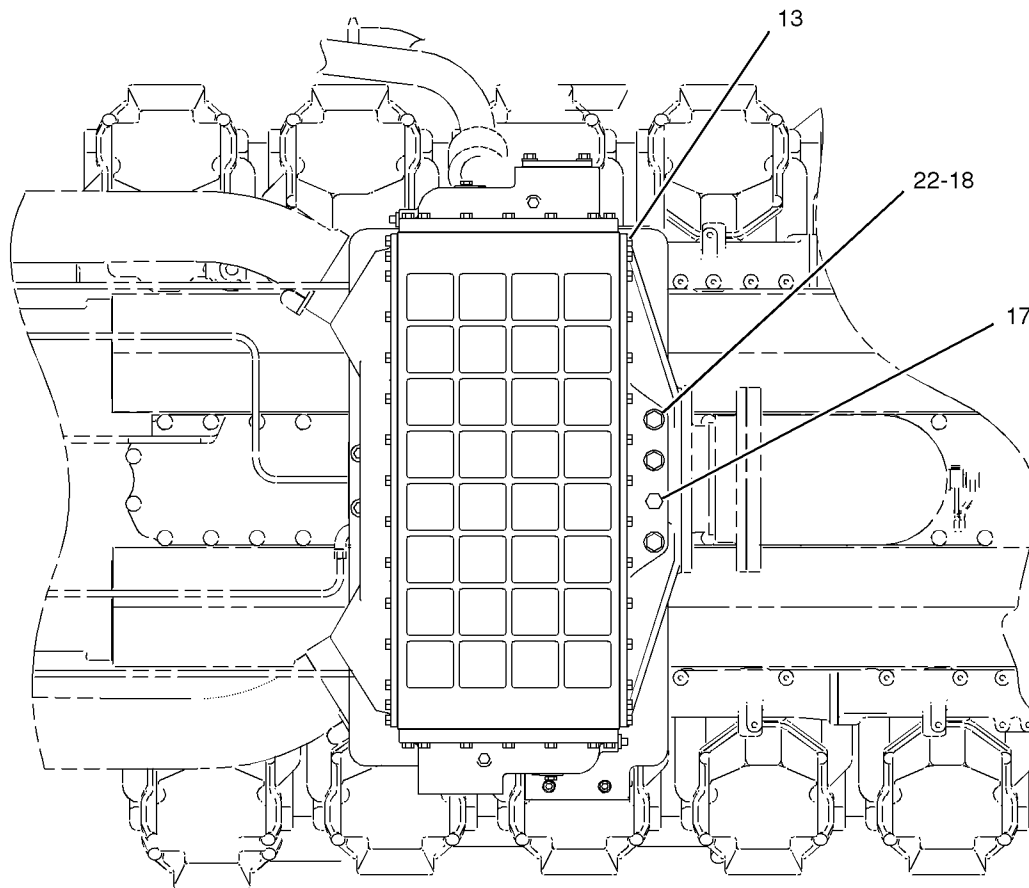
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	1	1	4N-1418	2	GASKET-RADIATOR INLET						404
	2	1	4W-9852	1	HOUSING-REAR						
	3	1	5P-7701	1	SEAL-O-RING						
	4	1	7E-1823	1	HOUSING-FRONT						
	5	1	121-3339	1	SUPPORT						
	6	1	121-7543	1	PLATE						
	7	1	122-9785	1	BRACKET						
	8	1	152-5705	2	GASKET						
Y	9	1	161-0526	1	AFTERCOOLER GP-RAW WATER						404
C	10	1	172-1249	2	PLATE						
	11	1	0L-1143	4	BOLT (3/8-16X2.5-IN)						
	12	1	0S-1590	4	BOLT (3/8-16X2-IN)						
C	13	1	0S-1594	80	BOLT (3/8-16X1-IN)						
	14	1	1A-2029	8	BOLT (3/8-16X1.125-IN)						
	15	1	3B-1915	6	BOLT (3/8-16X1.375-IN)						
	16	1	5M-2894	10	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	17	1	7W-6492	1	PLUG-PIPE						
	18	1	8L-2786	3	SEAL-O-RING						
	19	1	8T-6765	1	PLUG-PIPE						
	20	1	9L-9132	22	WASHER (10.2X25.5X2.5-MM THK)						
	21	1	9S-4181	1	PLUG-O-RING						
	22	1	9S-4185	3	PLUG-O-RING						
	23	1	9S-8752	10	NUT-FULL (3/8-16-THD)						
C	24	1	9X-6458	8	WASHER-HARD (10.2X22.5X3-MM THK)						

C- CHANGE FROM PREVIOUS TYPE
Y- SEPARATE ILLUSTRATION

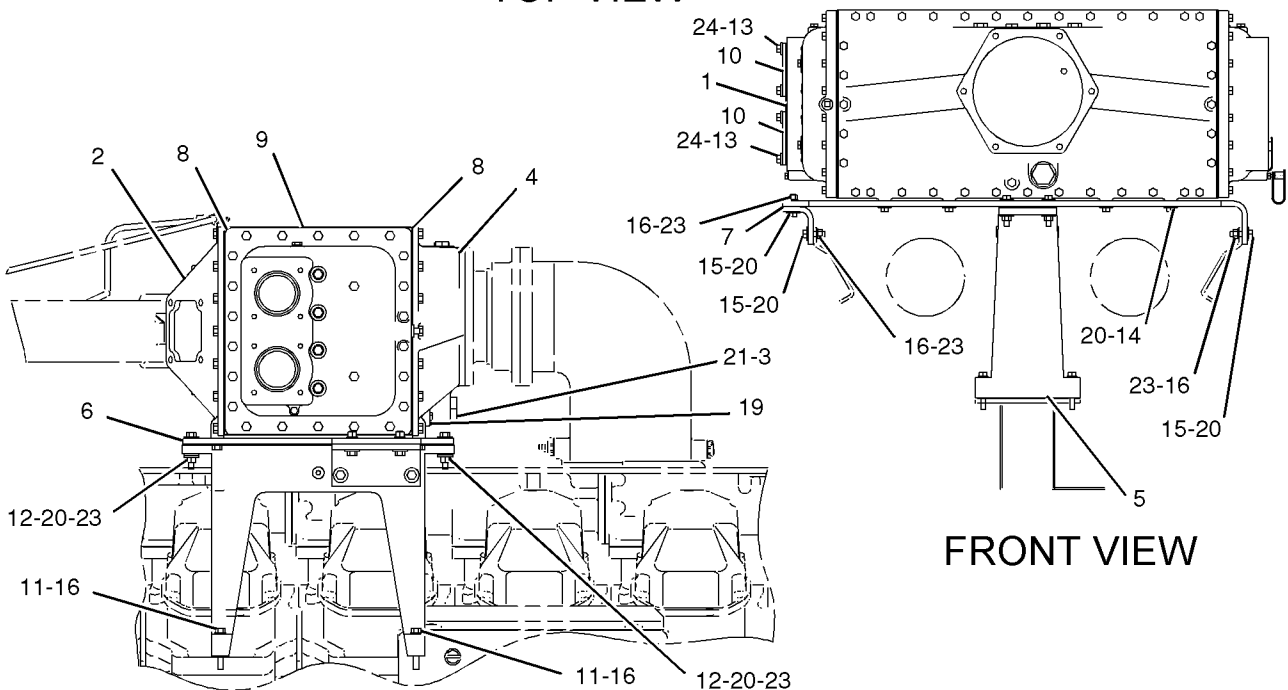
AIR INLET AND EXHAUST SYSTEM

168 - 3640 AFTERCOOLER GP - WATER (contd.)

i02006780



TOP VIEW



RIGHT SIDE VIEW

FRONT VIEW

GRAPHIC #1

<END>

g01038628

AIR INLET AND EXHAUST SYSTEM

197-8675 AFTERCOOLER GP-WATER

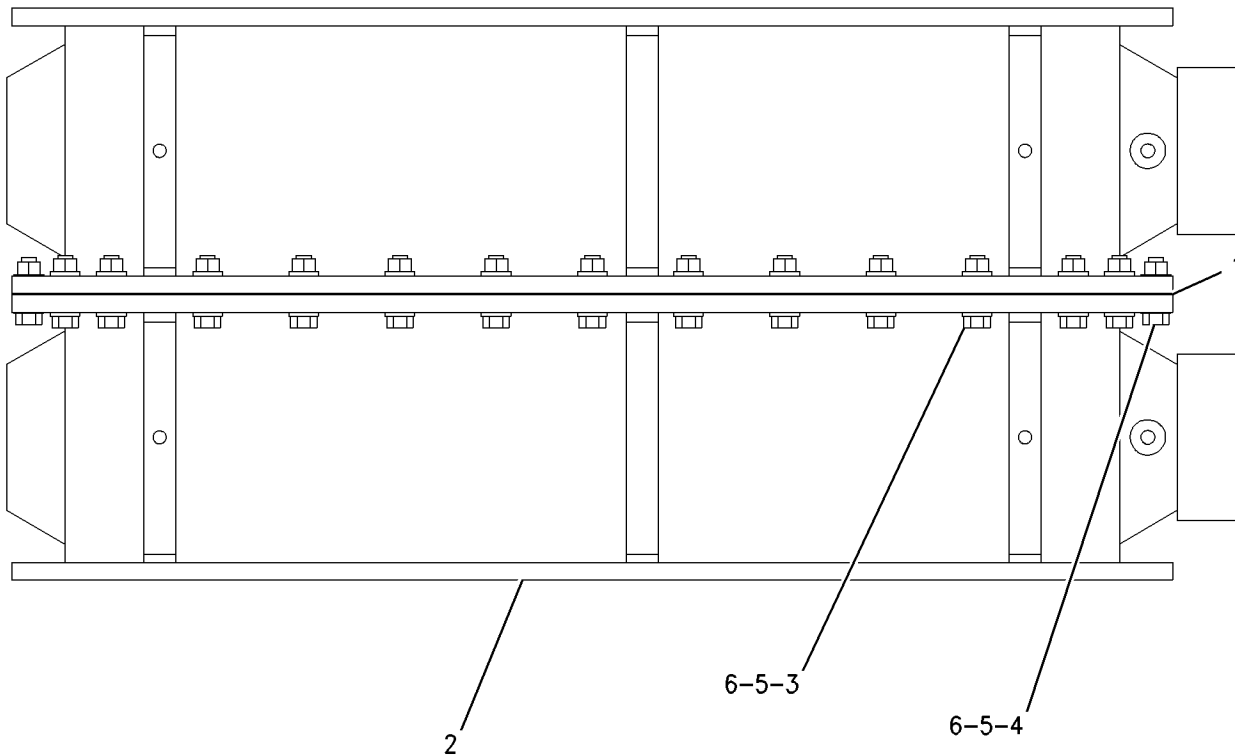
S/N: ZBA1-UP

PART OF 203-3174, 205-1889 AFTERCOOLER GP-WATER

SMCS-1063

i02864714

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	152-5705	1	GASKET						
	2	1	197-8674	2	CORE AS-AFTERCOOLER						
	3	1	0S-1591	26	BOLT (3/8-16X1.5-IN)						
	4	1	3B-1915	10	BOLT (3/8-16X1.375-IN)						
	5	1	5M-2894	72	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	6	1	9S-8752	36	NUT-FULL (3/8-16-THD)						



GRAPHIC #1

<END>

g00806443

AIR INLET AND EXHAUST SYSTEM

203-3174 AFTERCOOLER GP-WATER

S/N: ZBA1-UP

SMCS-1063

i02835209

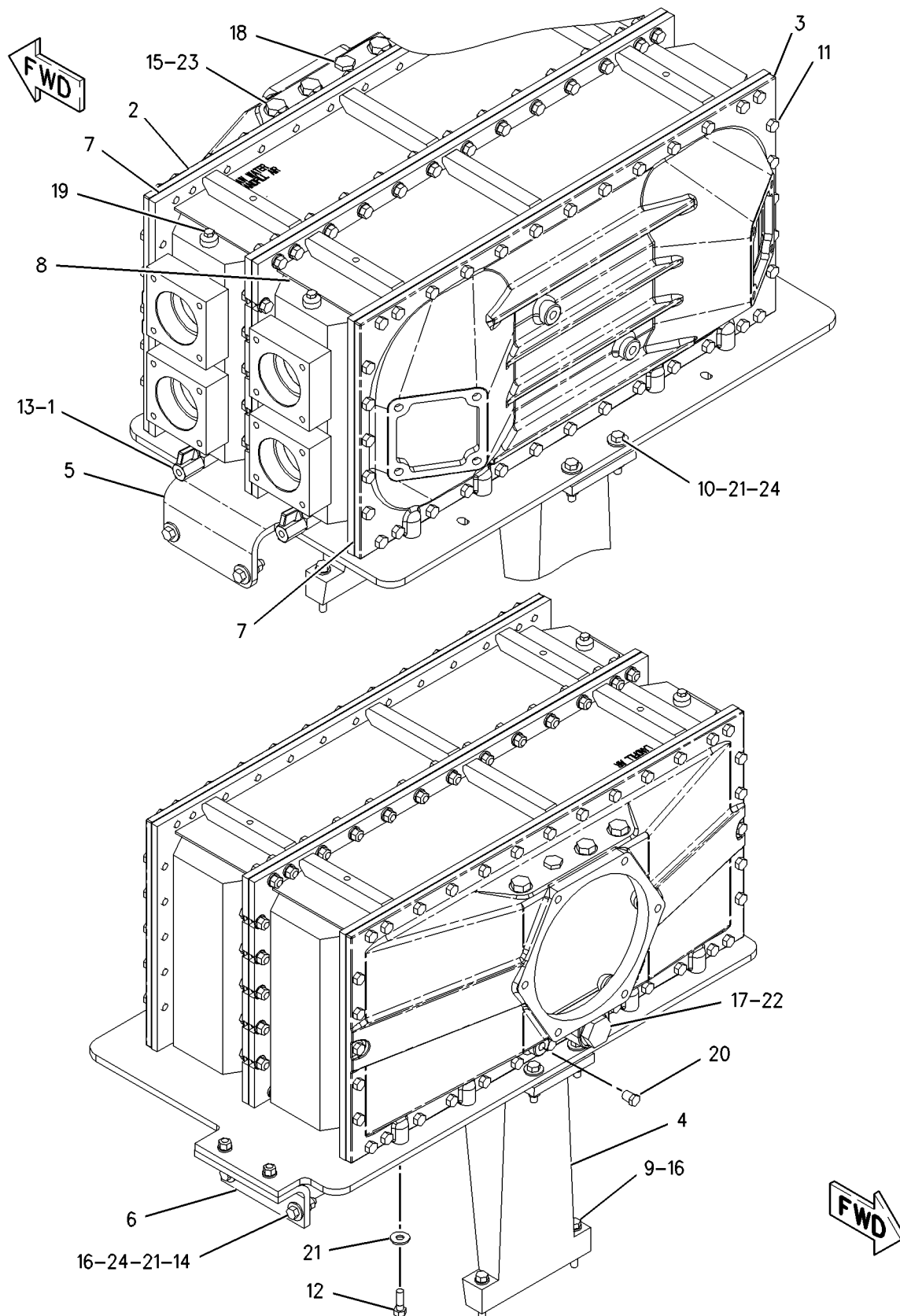
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3B-9067	2	COCK-DRAIN						
	2	1	4W-9852	1	HOUSING-REAR (AFTERCOOLER)						
	3	1	7E-1823	1	HOUSING-FRONT (AFTERCOOLER)						
	4	1	121-3339	1	SUPPORT						
	5	1	121-7543	1	PLATE						
	6	1	122-9785	1	BRACKET						
	7	1	152-5705	2	GASKET						
Y	8	1	197-8675	1	AFTERCOOLER GP-WATER						410
	9	1	0L-1143	4	BOLT (3/8-16X2.5-IN)						
	10	1	0S-1590	4	BOLT (3/8-16X2-IN)						
	11	1	0S-1594	72	BOLT (3/8-16X1-IN)						
	12	1	1A-2029	8	BOLT (3/8-16X1.125-IN)						
	13	1	2Y-5882	2	ELBOW						
	14	1	3B-1915	6	BOLT (3/8-16X1.375-IN)						
	15	1	8L-2786	3	SEAL-O-RING						
	16	1	5M-2894	10	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	17	1	5P-7701	1	SEAL-O-RING						
	18	1	7W-6492	1	PLUG-PIPE						
	19	1	8T-6764	2	PLUG-PIPE						
	20	1	8T-6765	1	PLUG-PIPE						
	21	1	9L-9132	18	WASHER (10.2X25.5X2.5-MM THK)						
	22	1	9S-4181	1	PLUG-O-RING						
	23	1	9S-4185	3	PLUG-O-RING						
	24	1	9S-8752	10	NUT-FULL (3/8-16-THD)						

Y-SEPARATE ILLUSTRATION

AIR INLET AND EXHAUST SYSTEM

203-3174 AFTERCOOLER GP-WATER (contd.)

i02835209



GRAPHIC #1

<END>

g00807035

AIR INLET AND EXHAUST SYSTEM

205 - 1889 AFTERCOOLER GP-WATER

S/N: ZBA1-UP

FOR USE WITH LANDFILL ENGINES WITH ABB TURBOS

SMCS - 1063

i02219501

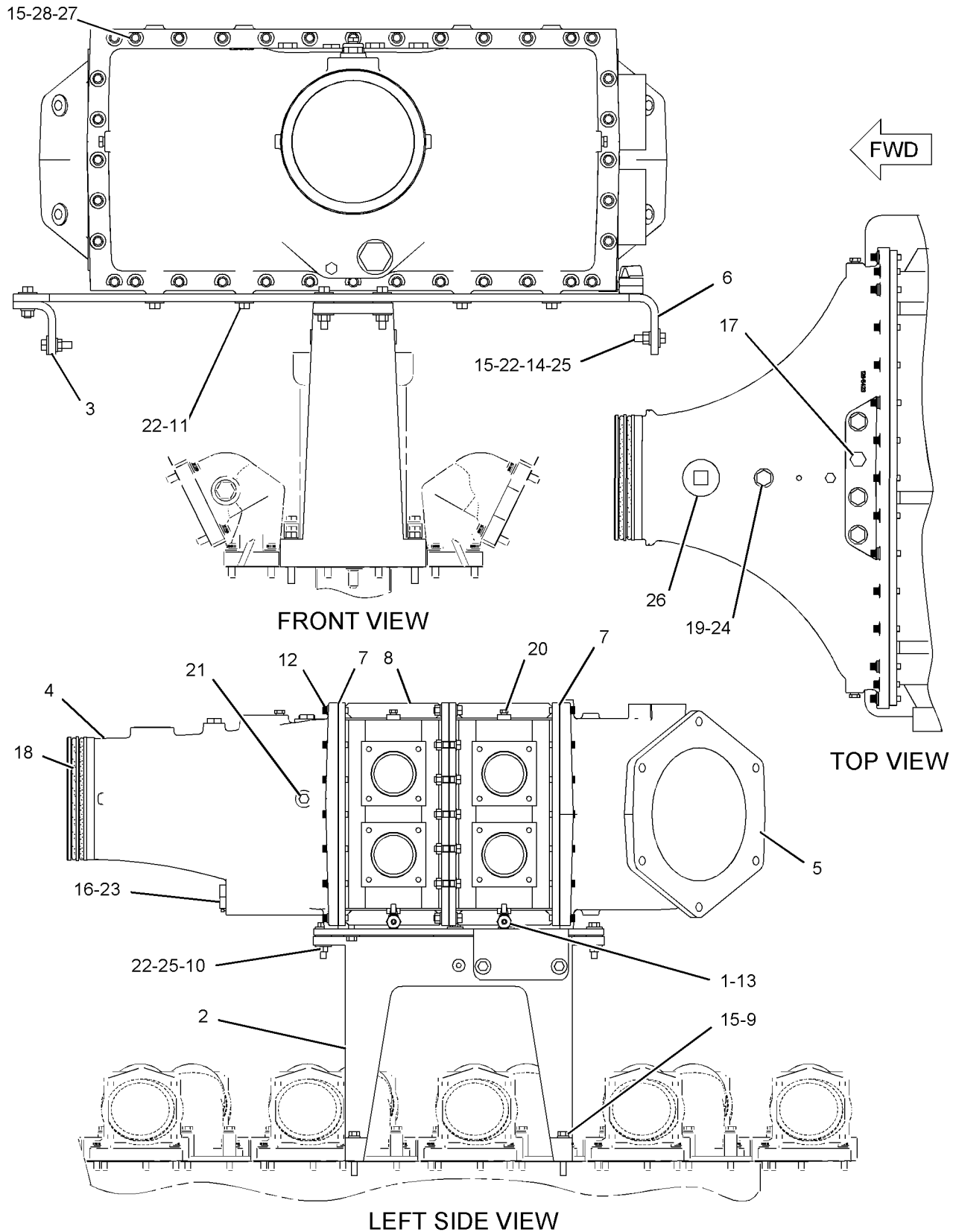
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3B-9067	2	COCK-DRAIN						
	2	1	121-3339	1	SUPPORT						
	3	1	122-9785	1	BRACKET						
	4	1	128-5423	1	HOUSING (AFTERCOOLER)						
	5	1	128-5424	1	HOUSING (AFTERCOOLER)						
	6	1	128-5425	1	PLATE						
	7	1	152-5705	2	GASKET						
Y	8	1	197-8675	1	AFTERCOOLER GP-WATER						410
	9	1	0L-1143	4	BOLT (3/8-16X2.5-IN)						
	10	1	0S-1590	4	BOLT (3/8-16X2-IN)						
	11	1	1A-2029	8	BOLT (3/8-16X1.125-IN)						
	12	1	1T-0720	64	BOLT-12 POINT HEAD (3/8-16X1.25-IN)						
	13	1	2Y-5882	2	ELBOW						
	14	1	3B-1915	6	BOLT (3/8-16X1.375-IN)						
	15	1	5M-2894	18	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	16	1	5P-7701	1	SEAL-O-RING						
	17	1	7W-6492	1	PLUG-PIPE						
	18	1	7X-4810	2	SEAL-O-RING						
	19	1	8L-2786	4	SEAL-O-RING						
	20	1	8T-6764	2	PLUG-PIPE						
	21	1	8T-6765	4	PLUG-PIPE						
	22	1	9L-9132	18	WASHER (10.2X25.5X2.5-MM THK)						
	23	1	9S-4181	1	PLUG-O-RING						
	24	1	9S-4185	4	PLUG-O-RING						
	25	1	9S-8752	10	NUT-FULL (3/8-16-THD)						
	26	1	9X-6138	1	PLUG-PIPE						
	27	1	7G-1239	8	SPACER (10.5X19X4.5-MM THK)						
	28	1	5P-0076	8	BOLT-12 POINT HEAD (3/8-16X1.5-IN)						

Y - SEPARATE ILLUSTRATION

AIR INLET AND EXHAUST SYSTEM

205 - 1889 AFTERCOOLER GP-WATER (contd.)

i02219501



GRAPHIC #1

<END>

g01135751

AIR INLET AND EXHAUST SYSTEM

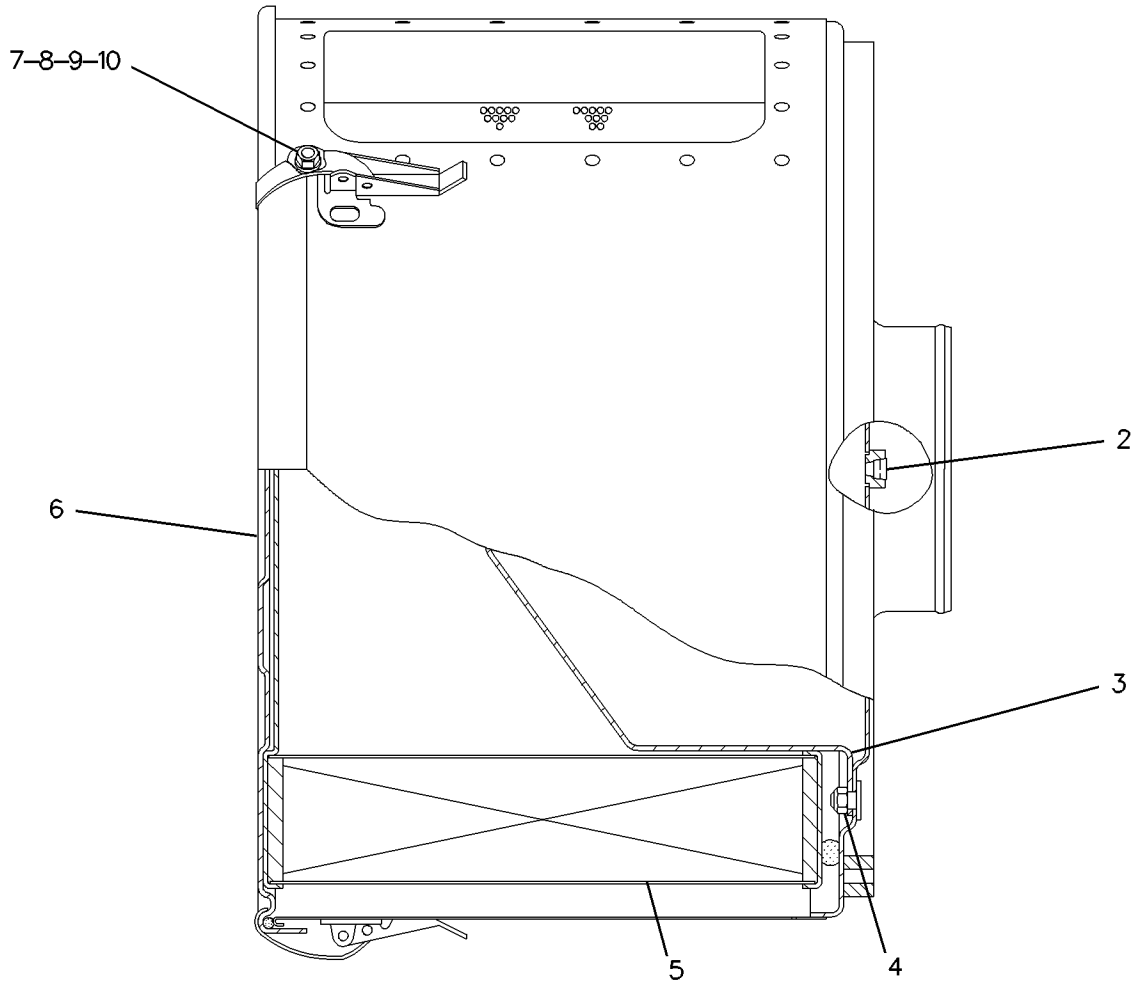
4P-0558 AIR CLEANER GP

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1051, 1054

i01971891

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	2	1	8T-6757	2	PLUG-PIPE						
	3	1	7W-0495	1	GUIDE AS						
	4	1	2K-4973	4	LOCKNUT (3/8-16-THD)						
	5	1	4P-0710	1	FILTER ELEMENT AS-AIR (PRIMARY)						
	6	1	8N-6534	1	COVER AS						
		1	8N-2559	1	GASKET						
	7	1	1B-7182	2	BOLT (5/16-18X1.25-IN)						
	8	1	7K-3215	2	SPACER (0.413X1X0.630-IN THK)						
	9	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						
	10	1	3S-2713	2	NUT-FULL (3/8-24-THD)						



GRAPHIC #1

<END>

g00756274

AIR INLET AND EXHAUST SYSTEM

4P-9088 AIR CLEANER GP

S/N: ZBA1-UP

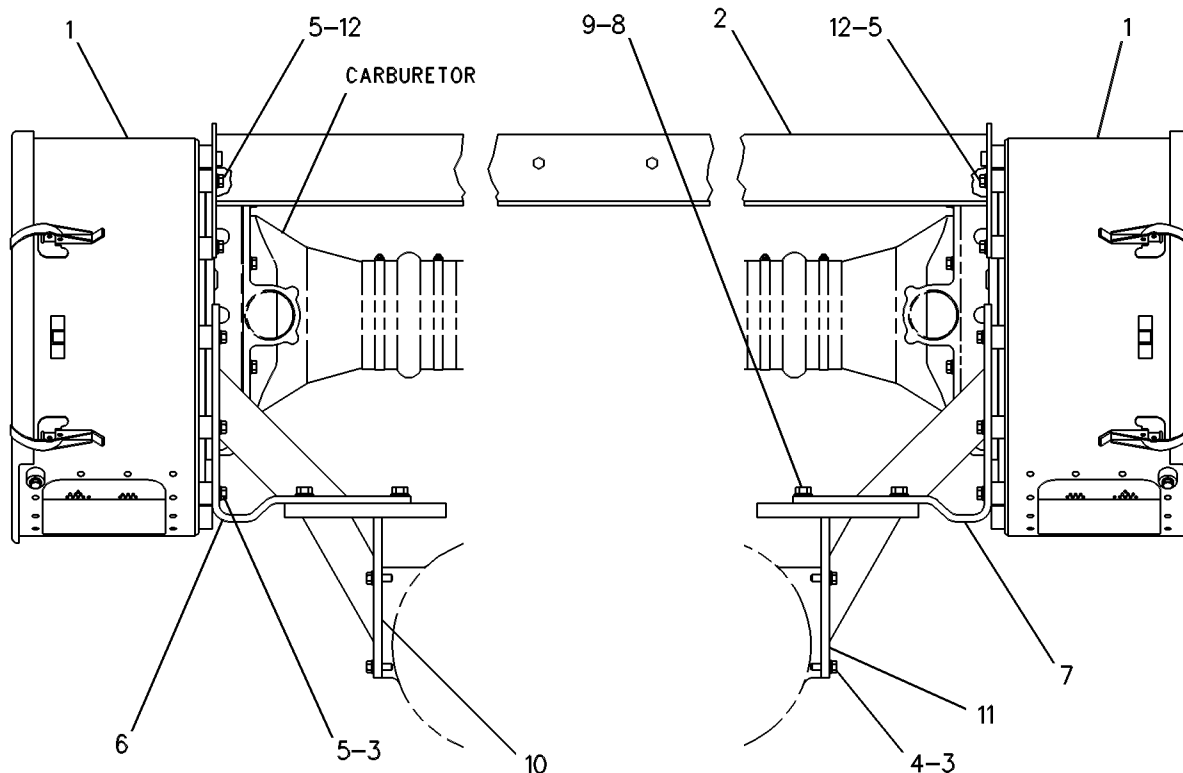
CANNOT BE USED WITH 1000-RPM OR 1500-RPM LOW PRESSURE GAS ENGINES
AN ATTACHMENT

SMCS-1051, 1054

i02220693

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	131-2183	2	AIR CLEANER GP	424
	2	1	4P-9093	1	SUPPORT AS	
	3	1	5M-2894	16	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	4	1	1A-2029	10	BOLT (3/8-16X1.125-IN)	
	5	1	0L-1351	10	BOLT (3/8-16X0.875-IN)	
	6	1	4P-9096	1	SUPPORT AS (LEFT)	
	7	1	4P-9097	1	SUPPORT AS (RIGHT)	
	8	1	0S-1595	8	BOLT (1/2-13X1.25-IN)	
	9	1	5P-8245	8	WASHER-HARD (13.5X25.5X3-MM THK)	
	10	1	4P-9094	1	SUPPORT AS	
	11	1	4P-9095	1	SUPPORT AS	
	12	1	3V-3308	4	WASHER-HARD (10.2X20.5X2.5-MM THK)	

Y-SEPARATE ILLUSTRATION



REAR VIEW

GRAPHIC #1

<END>

g00261729

AIR INLET AND EXHAUST SYSTEM

5N-7822 AIR CLEANER GP

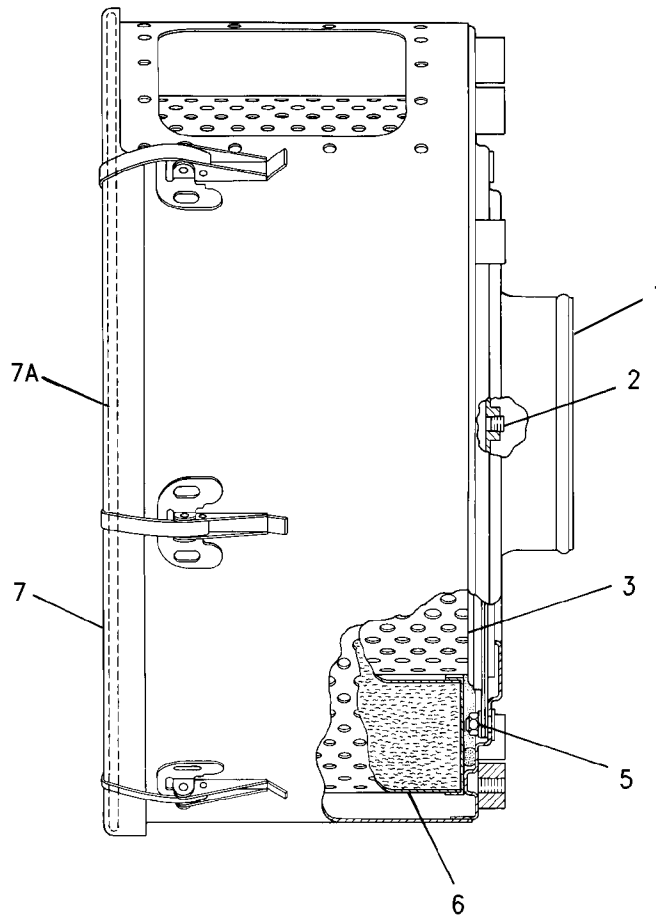
S/N: ZBA1-UP

PART OF 5N-7904 AIR CLEANER GP
AN ATTACHMENT

SMCS-1051, 1054

i02667693

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8N-2562	1	HOUSING AS-AIR CLEANER						
	2	1	8T-6757	2	PLUG-PIPE						
	3	1	8N-2556	1	FILTER ELEMENT AS-AIR (SECONDARY)						
	5	1	9S-8752	8	NUT-FULL (3/8-16-THD)						
	6	1	8N-6309	1	FILTER ELEMENT AS-AIR (PRIMARY)						
	7	1	8N-6534	1	COVER AS						
	7A	1	8N-2559	1	GASKET						



GRAPHIC #1

<END>

g00891410

AIR INLET AND EXHAUST SYSTEM

5N-7904 AIR CLEANER GP

S/N: ZBA1-UP

AN ATTACHMENT

SMCS-1051, 1054

i02220702

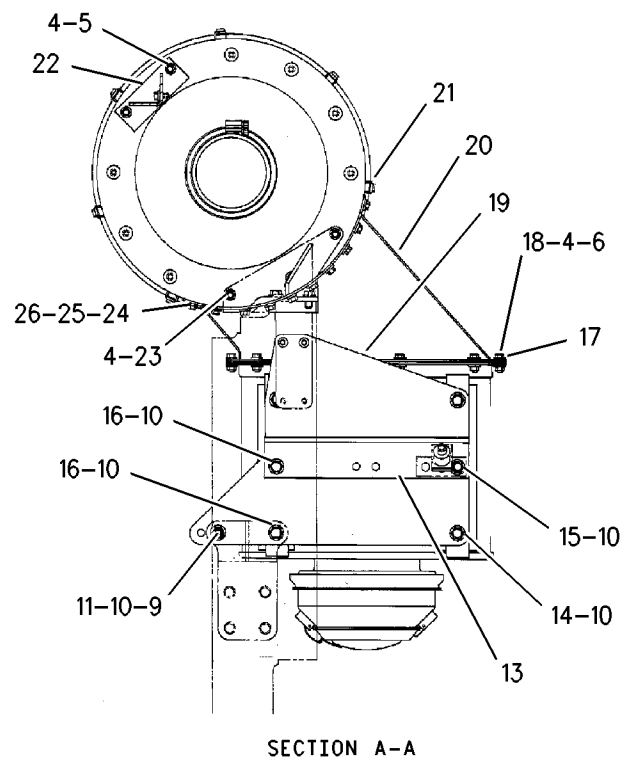
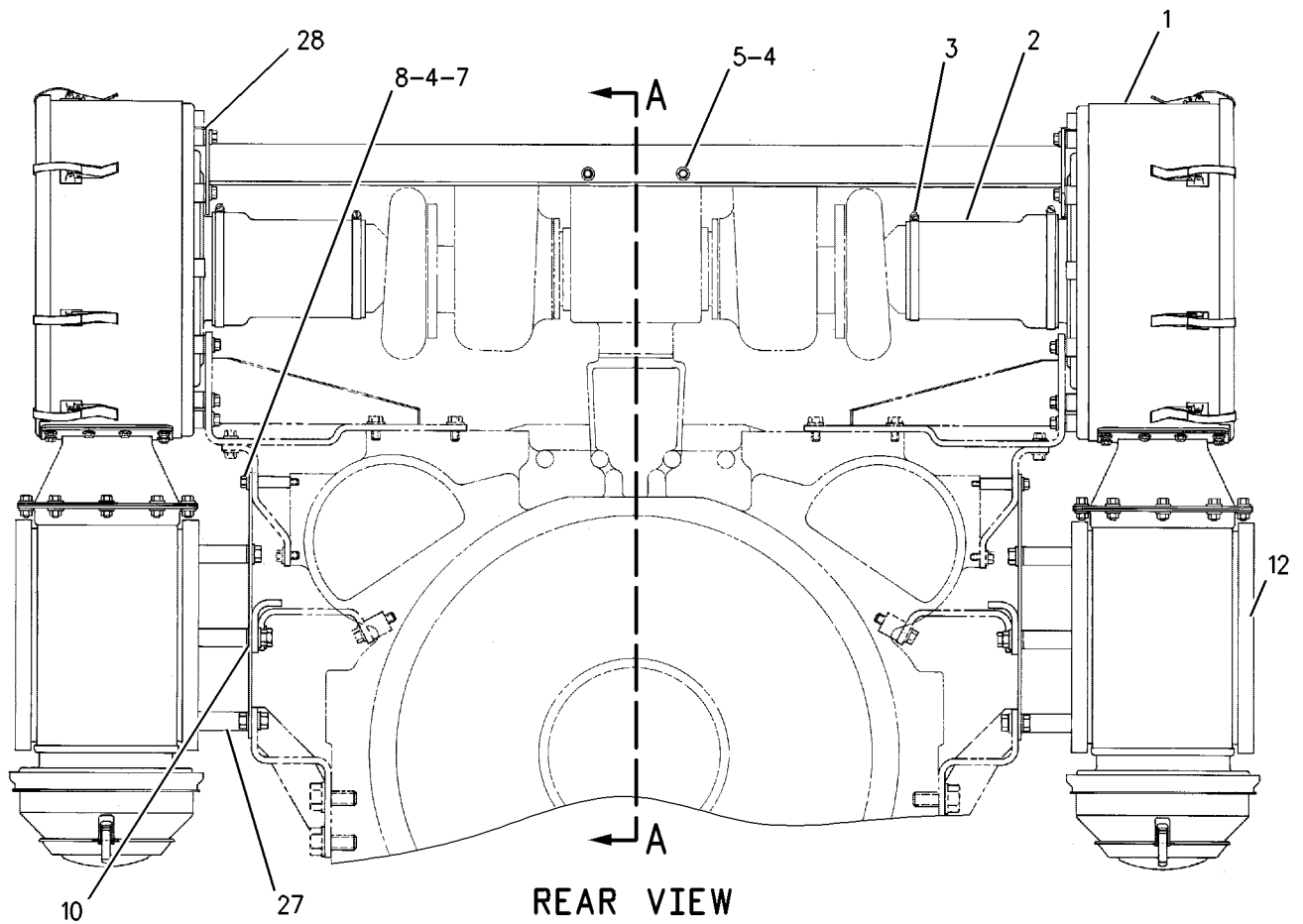
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	5N-7822	2	AIR CLEANER GP	417
	2	1	5N-7905	2	HOSE	
	3	1	5P-4869	4	CLAMP-HOSE	
	4	1	8T-4896	72	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	5	1	5S-7379	6	BOLT (3/8-16X0.875-IN)	
	6	1	6V-8801	28	NUT (3/8-16-THD)	
	7	1	8T-8915	4	BOLT (3/8-16X3.25-IN)	
	8	1	5N-7917	4	SPACER (10.74X17.14X54.4-MM THK)	
	9	1	7X-0344	2	BOLT (5/8-11X1.375-IN)	
B	10	1	8T-4122	16	WASHER-HARD (17X32X3.5-MM THK)	
	11	1	7X-0448	2	NUT (5/8-11-THD)	
Y	12	1	5N-7831	2	PRECLEANER GP	511
	13	1	5N-7915	2	ANGLE	
	14	1	201-7354	6	BOLT (5/8-11X2.5-IN)	
	15	1	8T-9396	2	BOLT (5/8-11X3.25-IN)	
	16	1	201-7355	4	BOLT (5/8-11X2.75-IN)	
	17	1	5N-7832	2	GASKET	
	18	1	4L-6454	28	BOLT (3/8-16X1-IN)	
	19	1	5N-7918	2	PLATE	
	20	1	5N-7920	2	ADAPTER AS	
	21	1	5N-7830	2	GASKET	
	22	1	5N-7906	1	SUPPORT AS	
	23	1	8T-2502	6	BOLT (3/8-16X1.125-IN)	
	24	1	8T-9043	48	BOLT (5/16-18X0.875-IN)	
	25	1	8T-4224	96	WASHER-HARD (8.8X16X2-MM THK)	
	26	1	031-4155	48	LOCKNUT (5/16-18-THD)	
	27	1	5N-7919	12	SPACER (18.85X26.67X33-MM THK)	
	28	1	8T-4896	20	WASHER-HARD (10.2X18.5X2.5-MM THK)	

B-USE AS REQUIRED
Y-SEPARATE ILLUSTRATION

AIR INLET AND EXHAUST SYSTEM

5N-7904 AIR CLEANER GP (contd.)

i02220702



GRAPHIC #1

<END>

g00857317

AIR INLET AND EXHAUST SYSTEM

7E-8228 AIR CLEANER GP

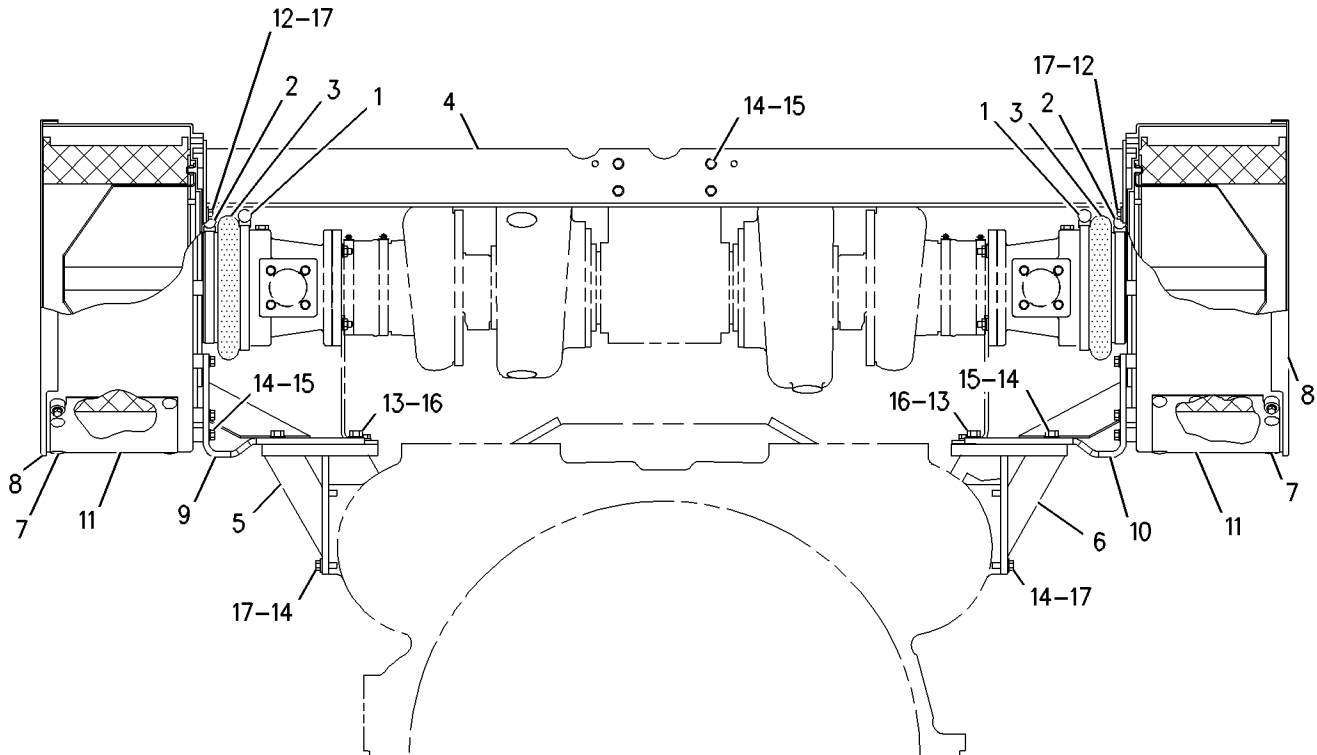
S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1051, 1054

i01876174

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	5P-0600	2	CLAMP-HOSE	
	2	1	5P-4869	2	CLAMP-HOSE	
	3	1	7E-8224	2	HOSE-REDUCER	
	4	1	7E-8225	1	SUPPORT AS	
	5	1	7E-8226	1	SUPPORT AS (LH)	
	6	1	7E-8227	1	SUPPORT AS (RH)	
	7	1	7W-5760	20	FASTENER	
Y	8	1	8N-3378	2	AIR CLEANER GP	421
	9	1	8N-8879	1	BRACKET AS	
	10	1	8N-8880	1	BRACKET AS	
	11	1	8N-9729	2	COVER-AIR CLEANER HOUSING	
	12	1	0L-1351	4	BOLT (3/8-16X0.875-IN)	
	13	1	0S-1595	6	BOLT (1/2-13X1.25-IN)	
	14	1	1A-2029	18	BOLT (3/8-16X1.125-IN)	
	15	1	5M-2894	10	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	16	1	5P-8245	6	WASHER-HARD (13.5X25.5X3-MM THK)	
	17	1	9X-6458	12	WASHER-HARD (10.2X22.5X3-MM THK)	

Y-SEPARATE ILLUSTRATION



REAR VIEW

GRAPHIC #1

<END>

g00954632

AIR INLET AND EXHAUST SYSTEM

8N-3378 AIR CLEANER GP

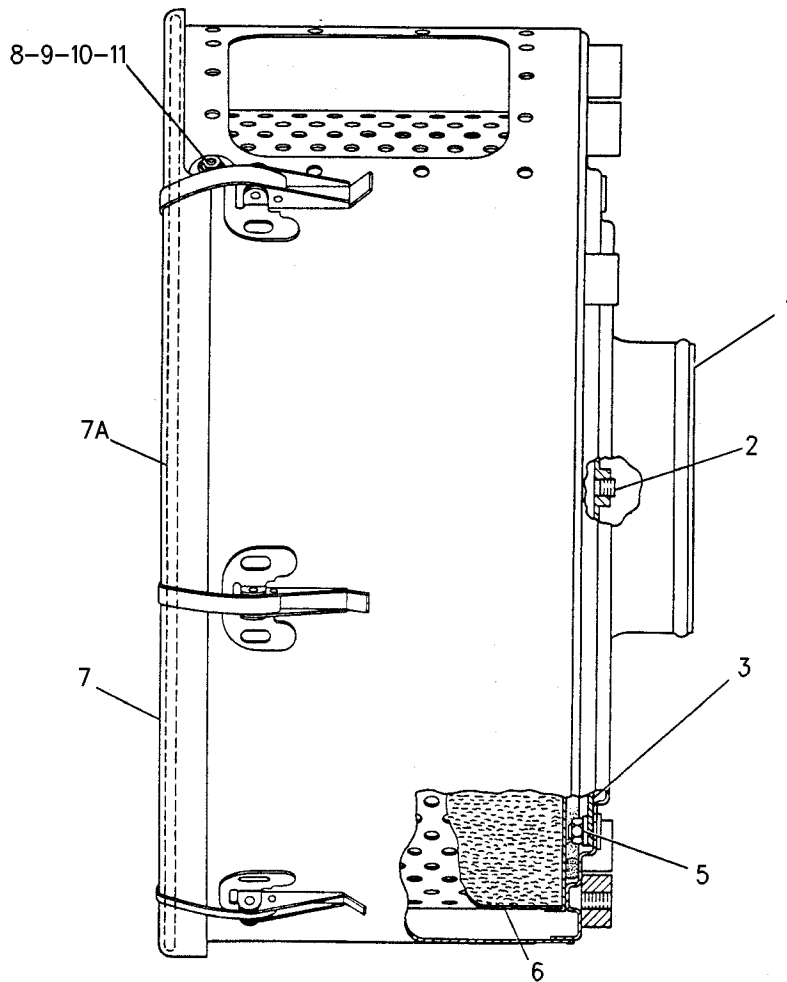
S/N: ZBA1-UP

PART OF 137-8721, 214-6134, 7E-8228, 9Y-0673 AIR CLEANER GP
AN ATTACHMENT

SMCS-1051, 1054

i02509709

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8N-2562	1	HOUSING AS-AIR CLEANER						
	2	1	8T-6757	2	PLUG-PIPE						
	3	1	7W-0495	1	GUIDE AS						
	5	1	2K-4973	4	LOCKNUT (3/8-16-THD)						
	6	1	8N-6309	1	FILTER ELEMENT AS-AIR (PRIMARY)						
	7	1	8N-6534	1	COVER AS						
	7A	1	8N-2559	1	GASKET						
	8	1	1B-7182	2	BOLT (5/16-18X1.25-IN)						
	9	1	7K-3215	2	SPACER (0.413X1X0.630-IN THK)						
	10	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						
	11	1	5S-0003	2	NUT (5/16-18-THD)						



GRAPHIC #1

<END>

g00896817

AIR INLET AND EXHAUST SYSTEM

9Y-0673 AIR CLEANER GP-INDUSTRIAL

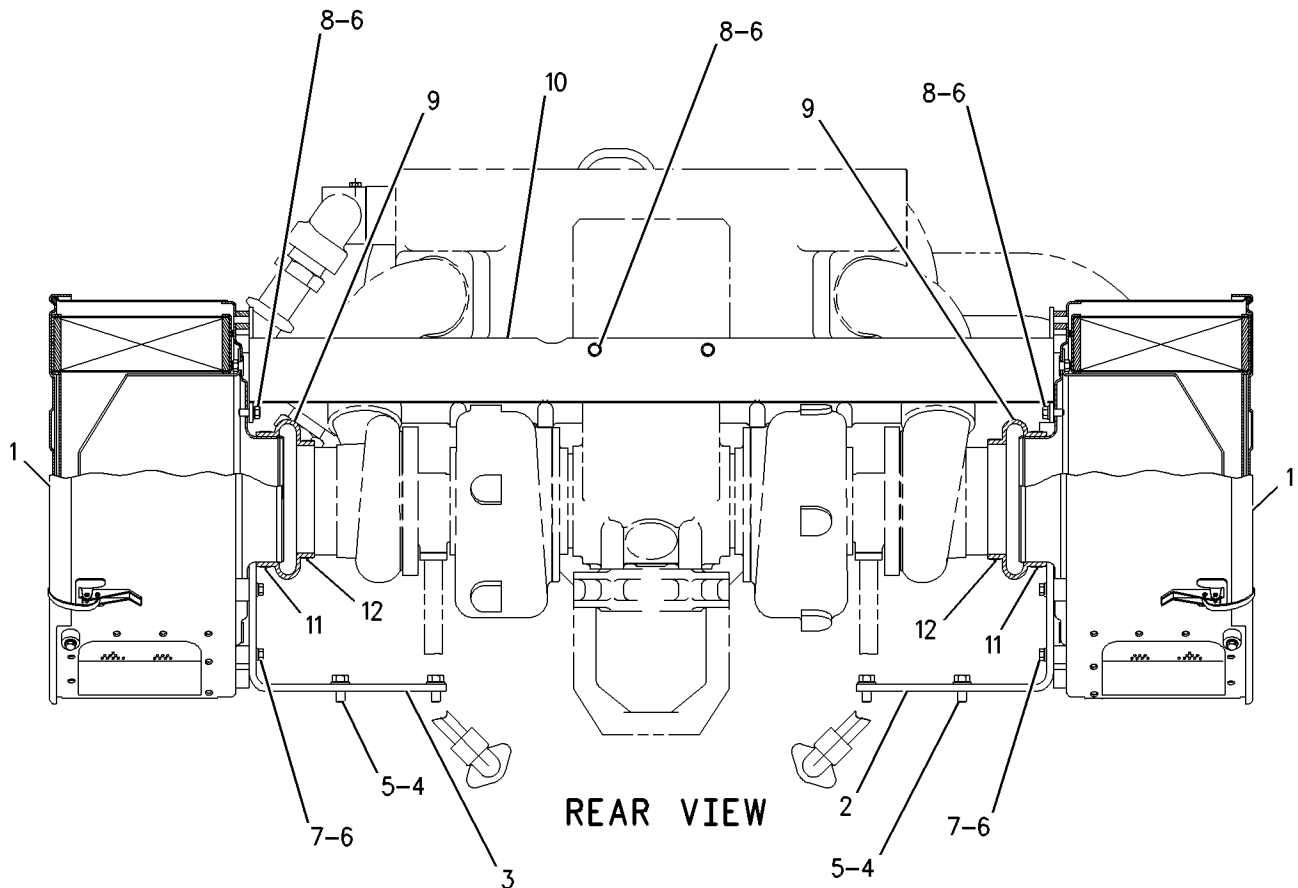
S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1051, 1054

i02220740

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	8N-3378	2	AIR CLEANER GP						421
	2	1	9Y-1705	1	BRACKET AS (RH)						
	3	1	9Y-1707	1	BRACKET AS (LH)						
	4	1	5P-8245	6	WASHER-HARD (13.5X25.5X3-MM THK)						
	5	1	6H-1717	6	BOLT (1/2-13X1.125-IN)						
	6	1	5M-2894	12	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	7	1	1A-2029	6	BOLT (3/8-16X1.125-IN)						
	8	1	0L-1351	6	BOLT (3/8-16X0.875-IN)						
	9	1	8N-5254	2	HOSE-REDUCER						
	10	1	9Y-1704	1	SUPPORT-AIR CLEANER						
	11	1	5P-4869	2	CLAMP-HOSE						
	12	1	5P-3860	2	CLAMP-HOSE						

Y-SEPARATE ILLUSTRATION



REAR VIEW

GRAPHIC #1

<END>

g00649616

AIR INLET AND EXHAUST SYSTEM

9Y-8829 AIR CLEANER GP

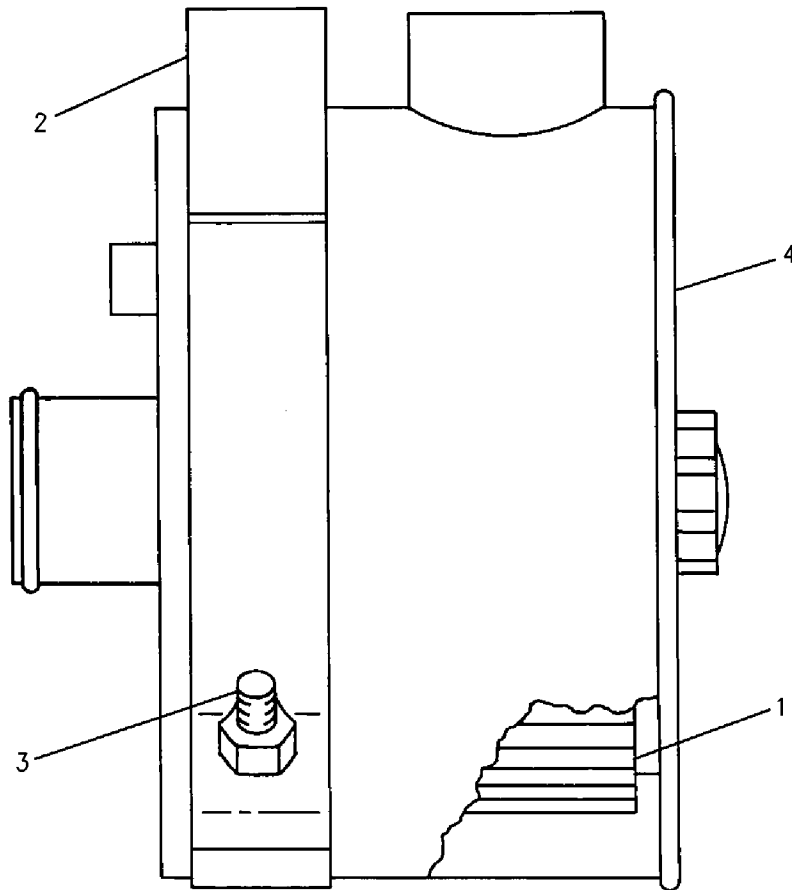
S/N: ZBA1-UP

PART OF 4P-8345 BREATHER GP

SMCS-1051, 1054

i02189071

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	2W-4246	1	FILTER ELEMENT AS-AIR (PRIMARY)	
	2	1	2W-5115	1	BRACKET AS	
	3	1	1A-9579	1	BOLT (5/16-18X1.5-IN)	
	4	1	9Y-8830	1	COVER AS	



GRAPHIC #1

<END>

g00726695

AIR INLET AND EXHAUST SYSTEM

131-2183 AIR CLEANER GP

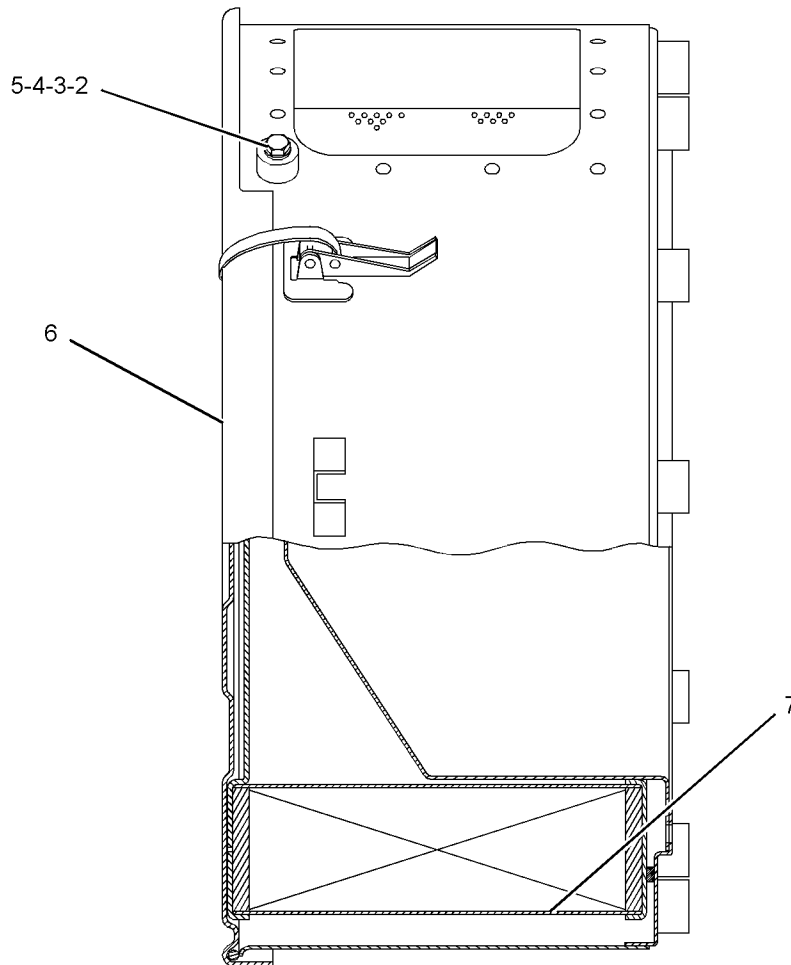
S/N: ZBA1-UP

PART OF 4P-9088 AIR CLEANER GP
AN ATTACHMENT

SMCS-1051, 1054

i02491434

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	2	1	1B-7182	2	BOLT (5/16-18X1.25-IN)						
	3	1	7K-3215	2	SPACER (0.413X1X0.630-IN THK)						
	4	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						
	5	1	5S-0003	2	NUT (5/16-18-THD)						
	6	1	8N-6534	1	COVER AS						
		1	8N-2559	1	GASKET						
	7	1	8N-6309	1	FILTER ELEMENT AS-AIR (PRIMARY)						



GRAPHIC #1

<END>

g01247735

AIR INLET AND EXHAUST SYSTEM

137-8721 AIR CLEANER GP

S/N: ZBA1-UP

AN ATTACHMENT

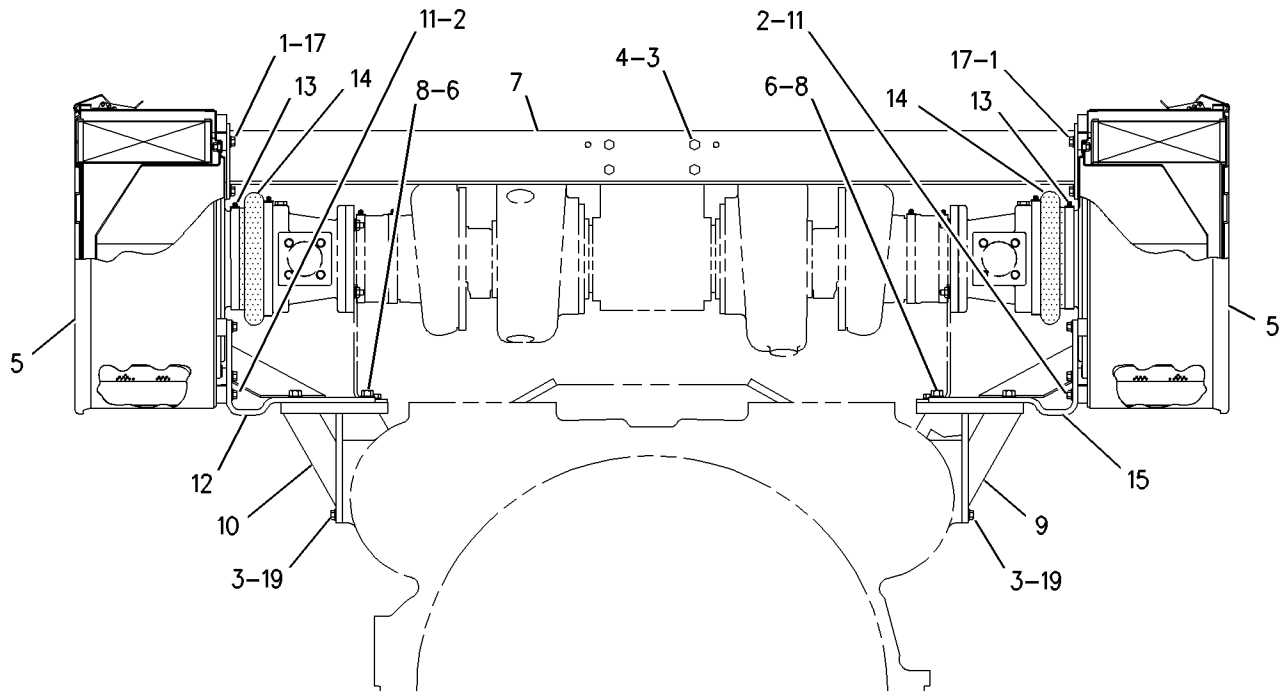
SMCS-1051, 1054

i01831606

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
B	1	1	0L-1351	4	BOLT (3/8-16X0.875-IN)	
B	2	1	5M-2894	6	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	3	1	1A-2029	12	BOLT (3/8-16X1.125-IN)	
	4	1	5M-2894	4	WASHER-HARD (10.2X18.5X2.5-MM THK)	
BY	5	1	8N-3378	2	AIR CLEANER GP	421
B	6	1	5P-8245	6	WASHER-HARD (13.5X25.5X3-MM THK)	
	7	1	7E-8225	1	SUPPORT AS	
	8	1	0S-1595	6	BOLT (1/2-13X1.25-IN)	
	9	1	7E-8226	1	SUPPORT AS	
	10	1	7E-8227	1	SUPPORT AS	
B	11	1	1A-2029	6	BOLT (3/8-16X1.125-IN)	
B	12	1	8N-8879	1	BRACKET AS	
B	13	1	5P-0600	2	CLAMP-HOSE	
B	14	1	7E-8224	2	HOSE-REDUCER	
B	15	1	8N-8880	1	BRACKET AS	
	17	1	9X-6458	4	WASHER-HARD (10.2X22.5X3-MM THK)	
	19	1	9X-6458	8	WASHER-HARD (10.2X22.5X3-MM THK)	

B-USE AS REQUIRED

Y-SEPARATE ILLUSTRATION



REAR VIEW

GRAPHIC #1

<END>

g00935588

AIR INLET AND EXHAUST SYSTEM

149-2248 AIR CLEANER GP

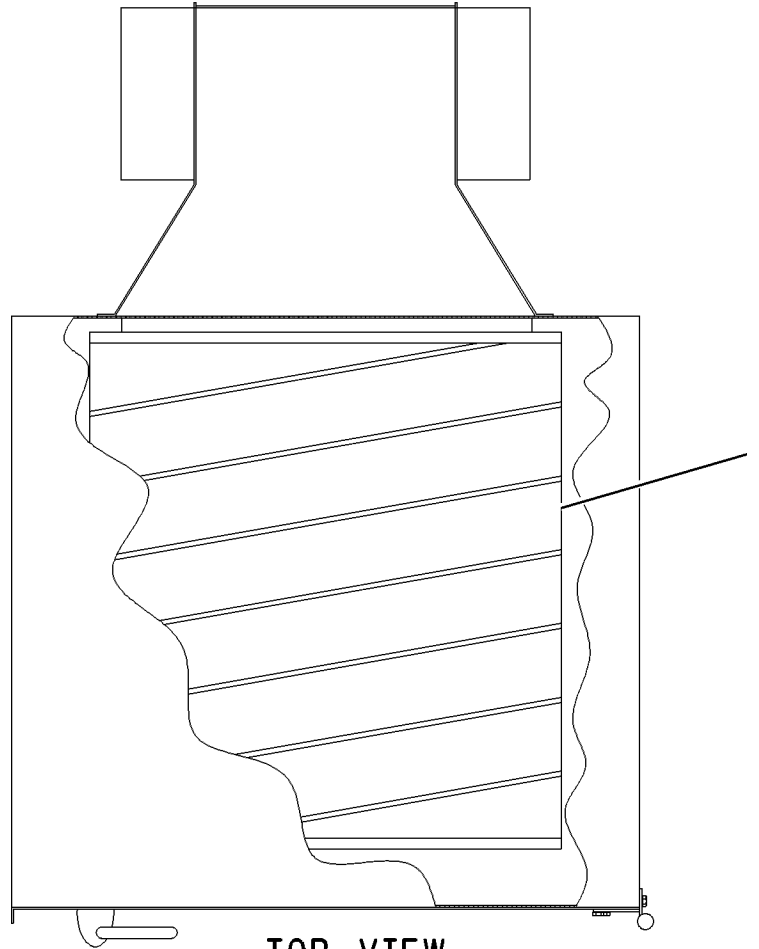
S/N: ZBA1-UP

PART OF 215-2785 AIR CLEANER GP
AN ATTACHMENT

SMCS-1051, 1054

i02230837

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	105-9741	1	FILTER ELEMENT AS-AIR (PRIMARY)						



TOP VIEW

GRAPHIC #1

<END>

g00527719

AIR INLET AND EXHAUST SYSTEM

214-6134 AIR CLEANER GP

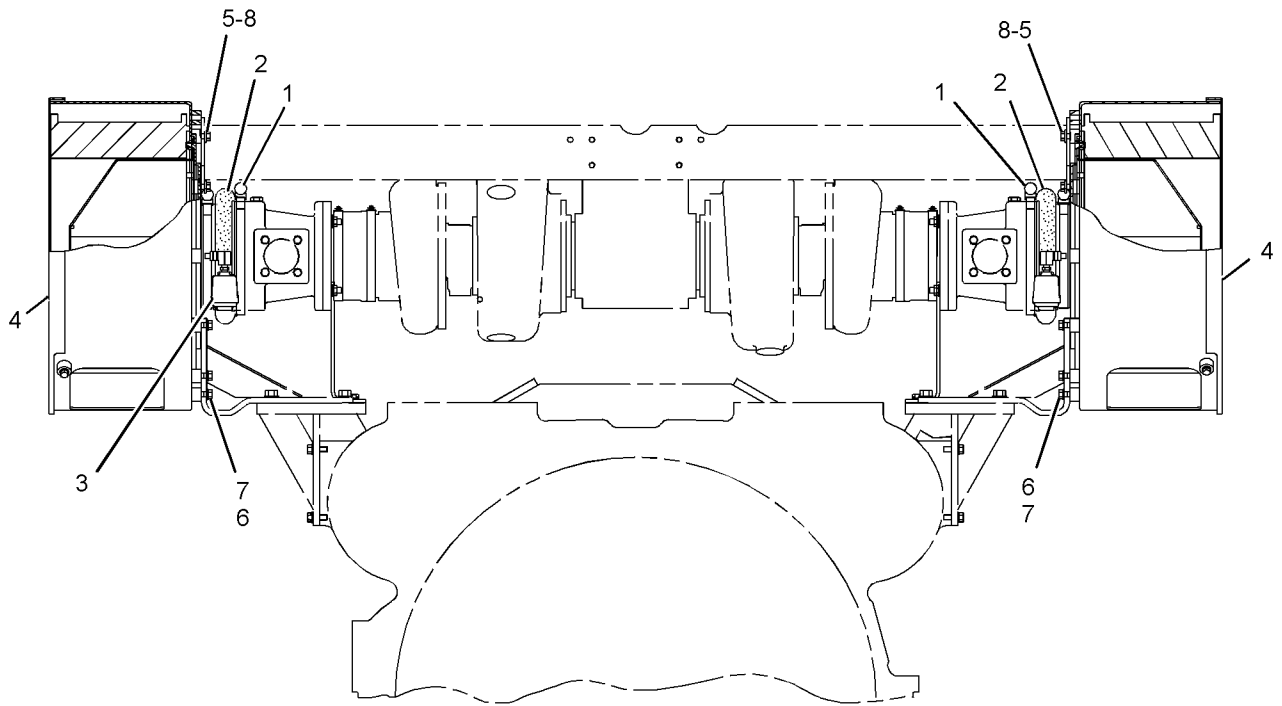
S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1051, 1054

i01858115

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-0600	2	CLAMP-HOSE						
	2	1	7E-8224	2	HOSE-REDUCER						
Y	3	1	7W-1678	1	INDICATOR GP-AIR FILTER CHANGE						464
Y	4	1	8N-3378	2	AIR CLEANER GP						421
	5	1	0L-1351	4	BOLT (3/8-16X0.875-IN)						
	6	1	1A-2029	6	BOLT (3/8-16X1.125-IN)						
	7	1	5M-2894	6	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	8	1	9X-6458	4	WASHER-HARD (10.2X22.5X3-MM THK)						

Y-SEPARATE ILLUSTRATION



REAR VIEW
<END>

GRAPHIC #1

g00947188

AIR INLET AND EXHAUST SYSTEM

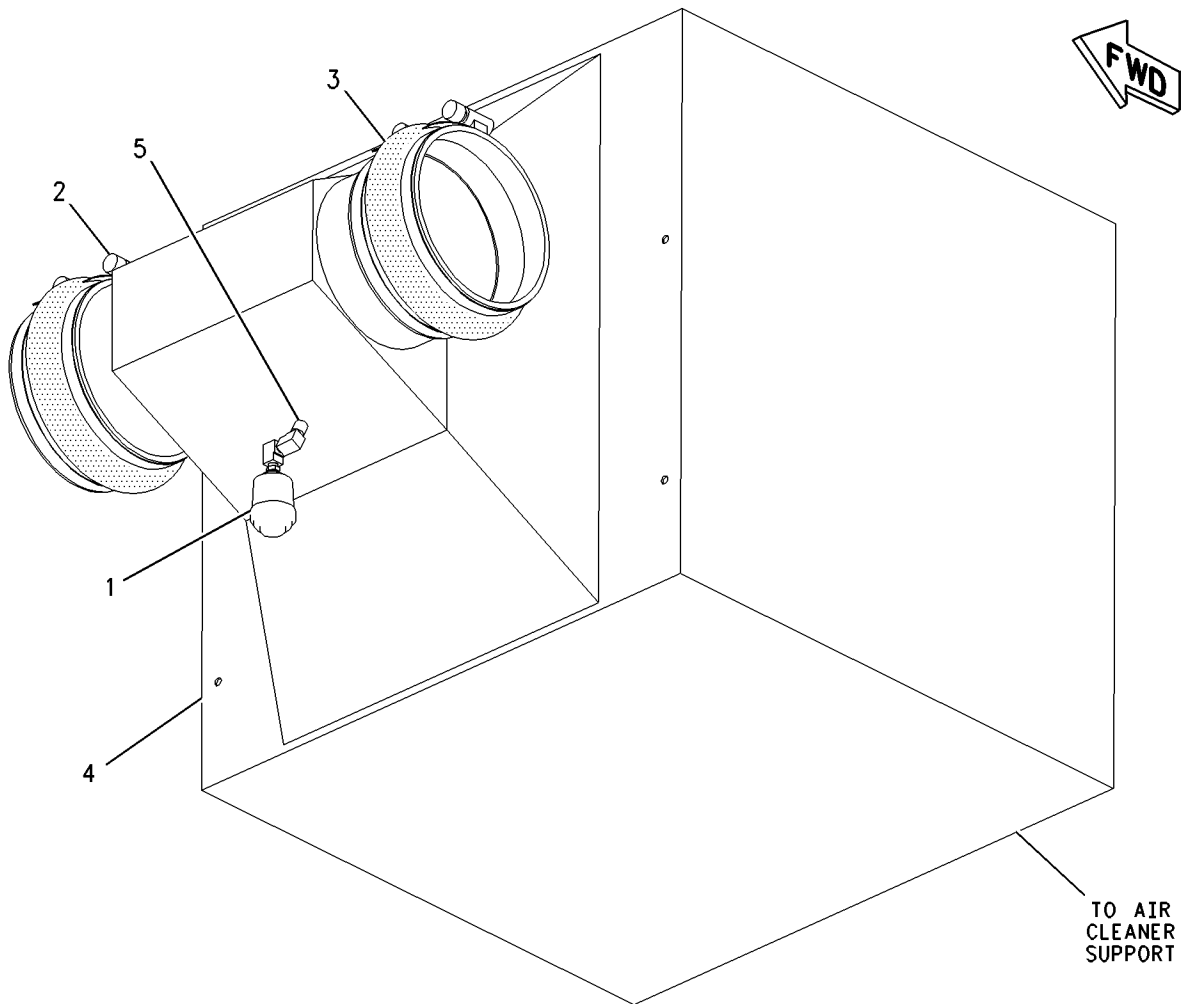
215-2785 AIR CLEANER GP

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1051, 1054

i02224396

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4W-5820	1	INDICATOR-AIR FILTER CHANGE						
	2	1	5P-0600	4	CLAMP-HOSE						
	3	1	8N-5991	2	HOSE						
Y	4	1	149-2248	1	AIR CLEANER GP						426
	5	1	3B-6552	2	ELBOW						
Y-SEPARATE ILLUSTRATION											



GRAPHIC #1

<END>

g00868207

AIR INLET AND EXHAUST SYSTEM

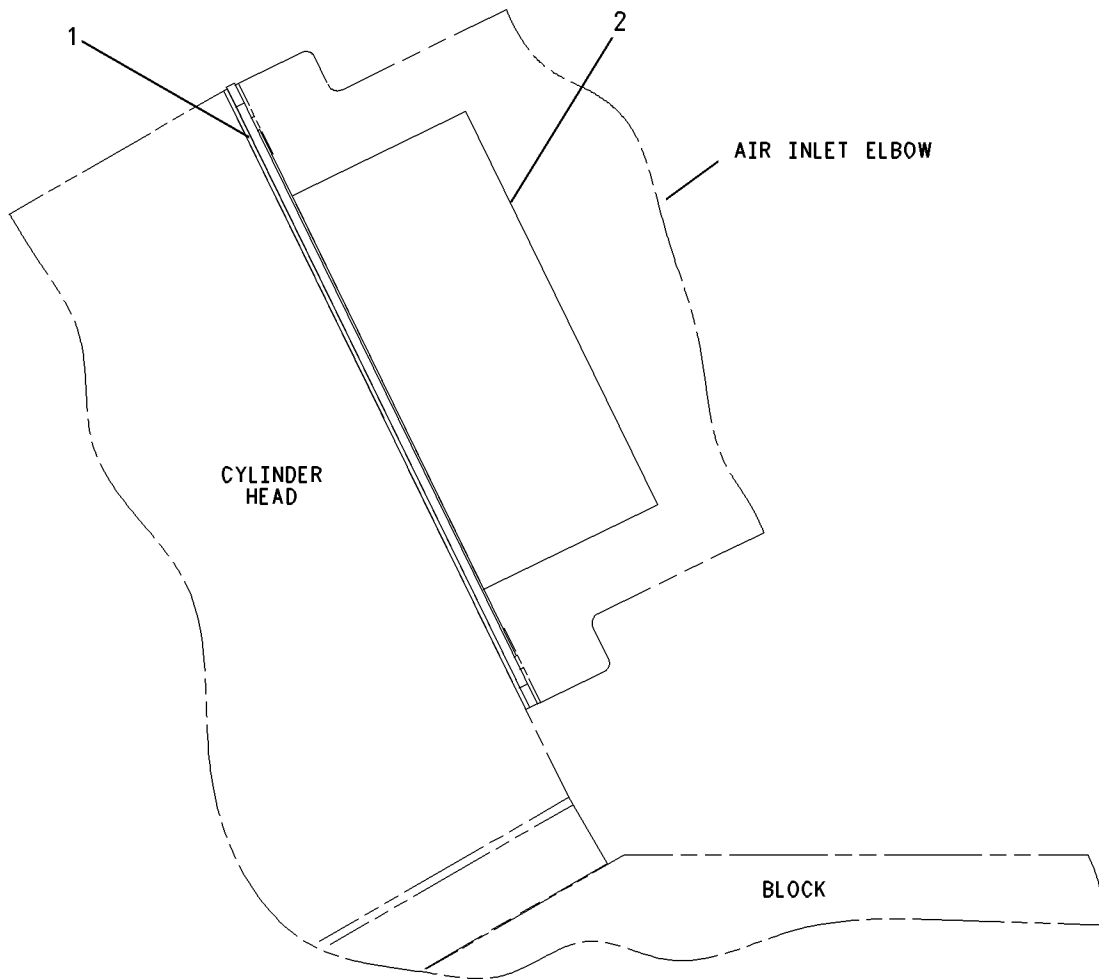
9Y-5313 ARRESTOR GP-FLAME

S/N: ZBA1-UP

SMCS-1092

i02224385

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	153-8455	1	GASKET-MANIFOLD						
	2	1	102-2674	1	ARRESTOR AS						



GRAPHIC #1

<END>

g00741297

AIR INLET AND EXHAUST SYSTEM

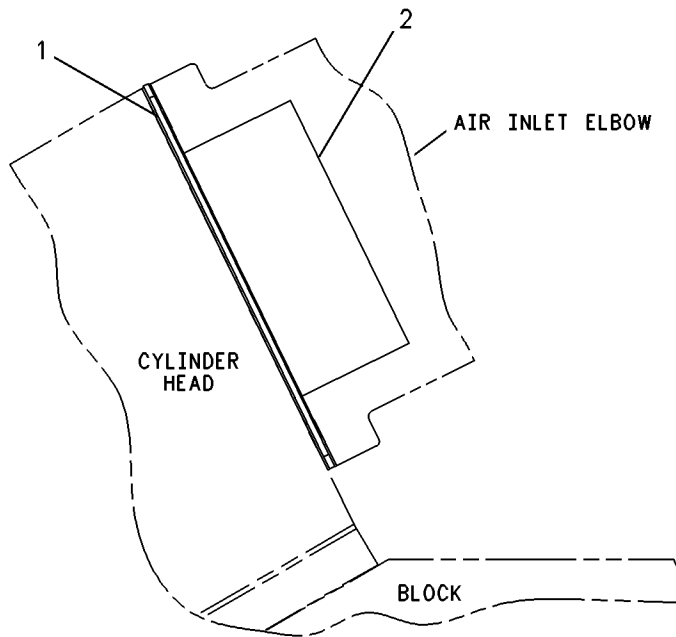
134-3805 ARRESTOR GP-FLAME

S/N: ZBA1-UP

SMCS-1092

i00890543

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	153-8455	1	GASKET-MANIFOLD						
	2	1	134-3806	1	ARRESTOR AS-FLAME						



GRAPHIC #1

<END>

g00231001

AIR INLET AND EXHAUST SYSTEM

4W-5947 BYPASS GP-EXHAUST

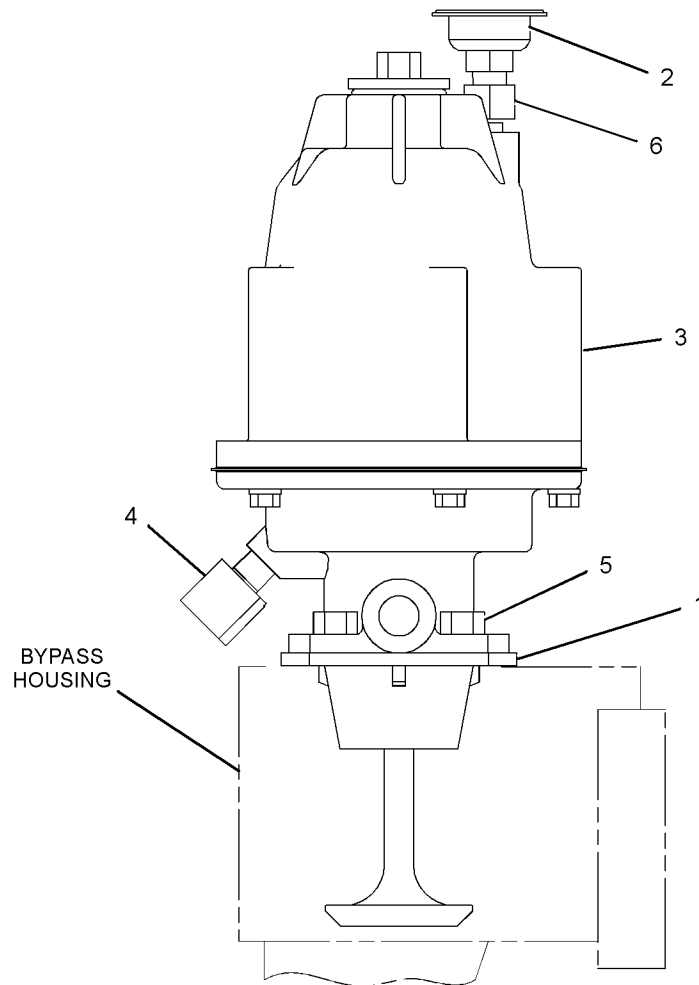
S/N: ZBA1-UP

SMCS-1057

i02408958

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-9710	1	GASKET						
	2	1	9G-5127	1	BREATHER (EXHAUST BYPASS)						
CY	3	1	146-0758	1	BYPASS GP-EXHAUST						432
	4	1	032-1268	1	ELBOW-FLARED						
	5	1	1B-5355	4	NUT-FULL (3/8-16-THD)						
	6	1	4H-0553	1	FITTING (SPECIAL)						

C-CHANGE FROM PREVIOUS TYPE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01253907

AIR INLET AND EXHAUST SYSTEM

146-0758 BYPASS GP - EXHAUST

S/N: ZBA1-UP

PART OF 165-4406, 4W-5947 BYPASS GP-EXHAUST

SMCS-1057

i02292823

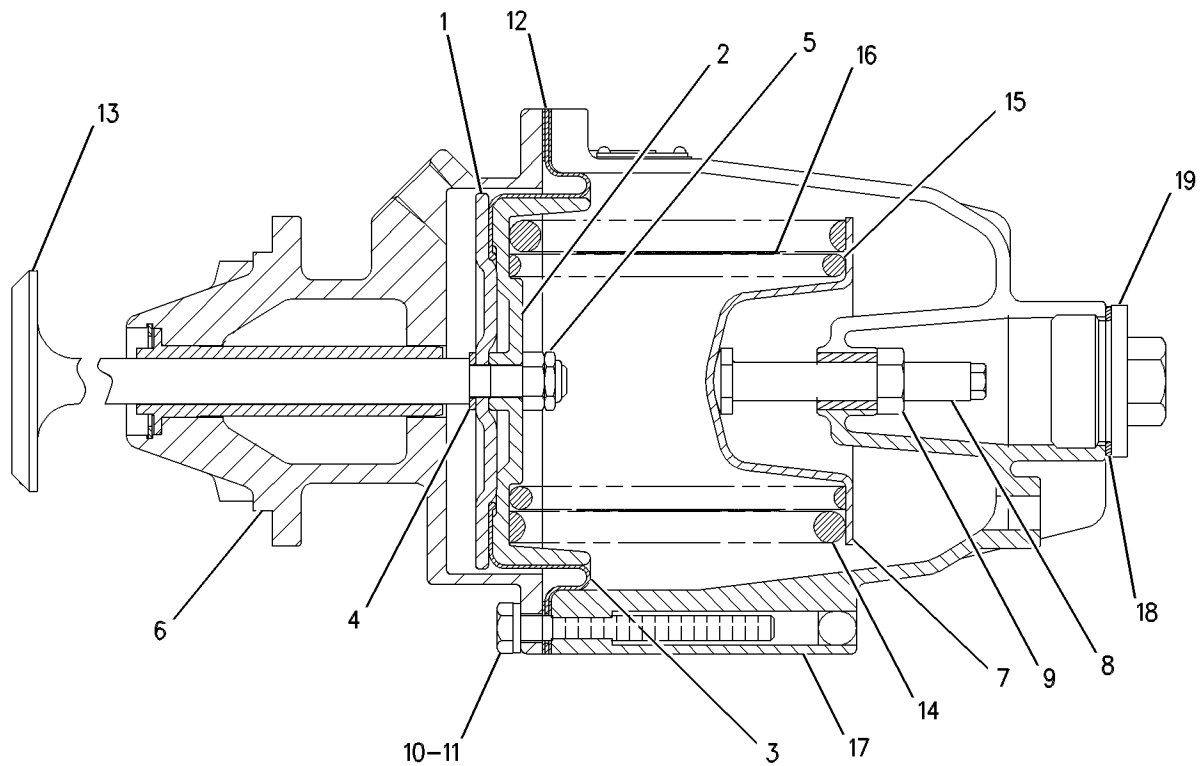
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7S-7814	1	PLATE-RETAINER						
	2	1	7S-7815	1	RETAINER-DIAPHRAGM						
	3	1	113-1572	1	DIAPHRAGM						
	4	1	1P-0659	1	WASHER (0.063-IN THK)						
	5	1	7S-7816	1	LOCKNUT						
	6	1	100-8019	1	BASE AS						
	7	1	4P-2443	1	RETAINER						
	8	1	146-0752	1	SETSCREW (3/8-16X3-IN)						
	9	1	1B-2578	1	NUT (3/8-16-THD)						
M	10	1	7C-9721	5	SCREW-MACHINE (1/4-20X2.5-IN)						
	11	1	3B-4504	5	LOCKWASHER						
	12	1	3S-5849	2	GASKET						
	13	1	4W-5224	1	VALVE						
	14	1	7E-4677	1	SPRING						
	15	1	7E-4676	1	SPRING						
	16	1	1P-9897	1	SLEEVE						
	17	1	146-0751	1	COVER AS						
	18	1	9X-7712	1	SEAL-O-RING						
	19	1	9S-4205	1	PLUG						

M-METRIC PART

AIR INLET AND EXHAUST SYSTEM

146-0758 BYPASS GP - EXHAUST (contd.)

i02292823



GRAPHIC #1

<END>

g00283309

AIR INLET AND EXHAUST SYSTEM

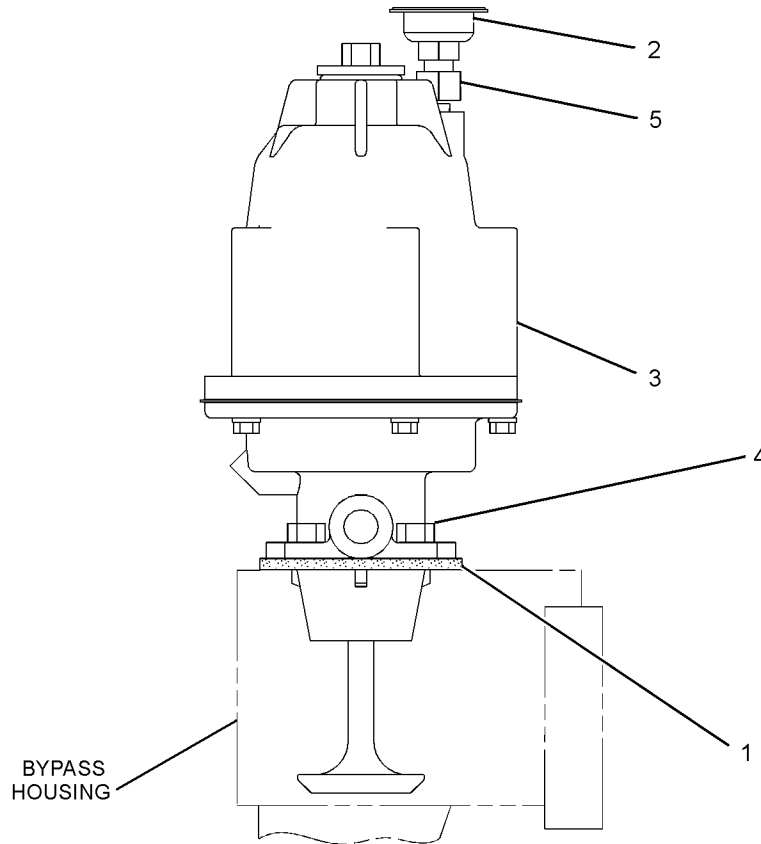
165-4406 BYPASS GP - EXHAUST

S/N: ZBA1-UP

SMCS-1057

i02408974

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-9710	1	GASKET						
	2	1	9G-5127	1	BREATHER (EXHAUST BYPASS)						
Y	3	1	146-0758	1	BYPASS GP-EXHAUST						432
	4	1	1B-5355	4	NUT-FULL (3/8-16-THD)						
	5	1	4H-0553	1	FITTING (SPECIAL)						
Y-SEPARATE ILLUSTRATION											



GRAPHIC #1

<END>

g01240498

AIR INLET AND EXHAUST SYSTEM

7C-2860 CARTRIDGE GP - TURBOCHARGER

S/N: ZBA1-UP

PART OF 6I-1723 TURBOCHARGER GP
AN ATTACHMENT

SMCS-1053

i02835213

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
J	1	1	1N-3411	1	LOCKNUT - TURBOCHARGER (7/16-20-THD)						
	2	1	1N-3505	1	SPACER - THRUST						
J	3	1	9M-8919	2	RING - SEAL						
	4	1	7W-2300	1	PLATE AS-BACKING						
		1	7W-0130	1	BEARING - THRUST						
		1	7W-0131	1	STUD - DRIVE						
J	5	1	1N-3557	1	RING - SEAL						
	6	1	4W-1224	1	HOUSING AS-BEARING						
		1	4M-6646	2	PIN - GROOVED						
J	7	1	4W-1222	1	RING - PISTON						
	8	1	4W-1329	1	SHROUD						
	9	1	4W-1223	1	SHAFT AS - TURBINE						
	10	1	7C-2863	1	WHEEL - COMPRESSOR						
J	11	1	1N-3712	1	BEARING - THRUST						
	12	1	1N-3365	1	COLLAR - THRUST						
	13	1	2J-3118	4	BOLT - LOCKING (3/8-16X1.25-IN)						
J	14	1	5P-7234	3	RING - RETAINING						
F		1	1W-4795	1	PLATE - IDENTIFICATION (TURBOCHARGER CARTRIDGE)						
					AVAILABLE REPAIR KIT(S) :						
			1N-3593	1	KIT - BEARING (TURBOCHARGER CARTRIDGE)						
J			7W-4874	1	KIT - CARTRIDGE (TURBOCHARGER)						
					(INCLUDES PARTS MARKED J)						

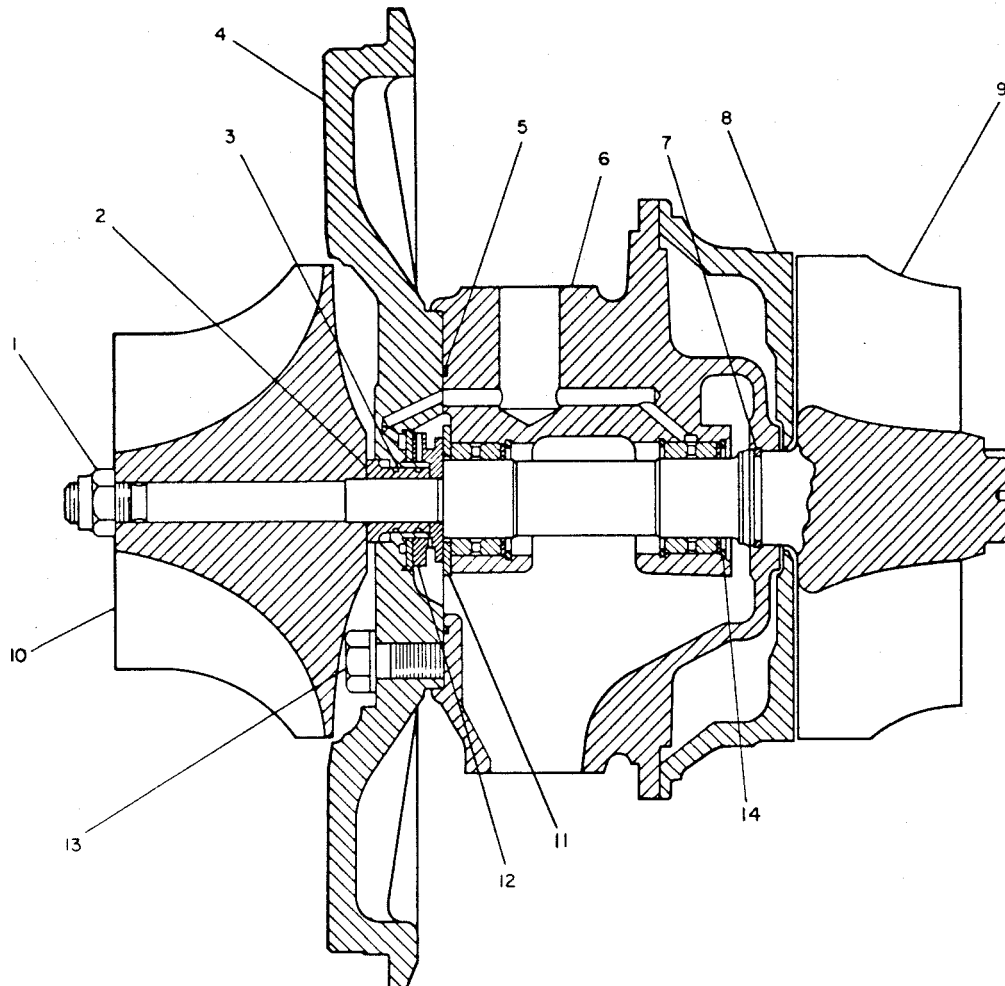
F - NOT SHOWN

J - KIT MARKED J INCLUDES PARTS MARKED J

AIR INLET AND EXHAUST SYSTEM

7C-2860 CARTRIDGE GP-TURBOCHARGER (contd.)

i02835213



GRAPHIC #1

<END>

g00184795

AIR INLET AND EXHAUST SYSTEM

100-4095 CARTRIDGE GP - TURBOCHARGER*R

S/N: ZBA1-UP

PART OF 102-0294, 102-0296 TURBOCHARGER GP
ALSO AN ATTACHMENT

SMCS-1053

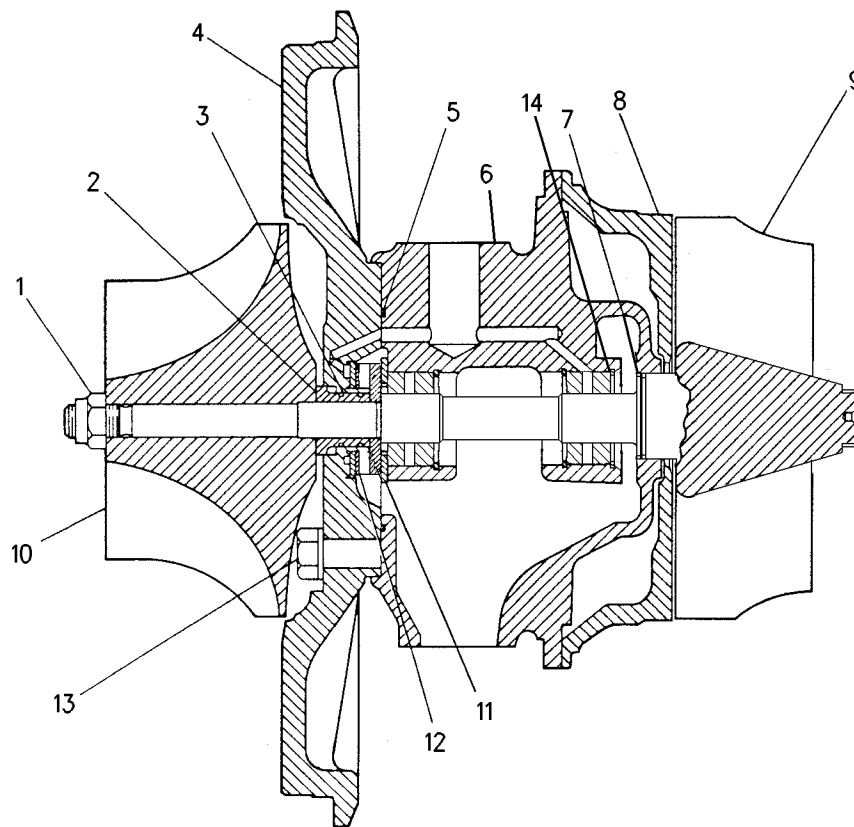
i02775771

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
J	1	1	1N-3411	1	LOCKNUT - TURBOCHARGER (7/16-20-THD)						
	2	1	1N-3505	1	SPACER - THRUST						
J	3	1	9M-8919	2	RING - SEAL						
	4	1	109-3481	1	PLATE AS-BACKING						
J	5	1	1N-3557	1	RING - SEAL						
	6	1	4W-1224	1	HOUSING AS-BEARING						
J		1	4M-6646	1	PIN-GROOVED						
	7	1	108-9340	1	RING - SEAL						
	8	1	4W-1329	1	SHROUD						
	9	1	4W-1223	1	SHAFT AS-TURBINE						
J	10	1	9Y-1493	1	WHEEL - COMPRESSOR						
	11	1	1N-3712	1	BEARING - THRUST						
	12	1	1N-3365	1	COLLAR - THRUST						
	13	1	2J-3118	4	BOLT-LOCKING (3/8-16X1.25-IN)						
J	14	1	5P-7234	3	RING-RETAINING						
					AVAILABLE REPAIR KIT(S) :						
				1N-3593	1	KIT-BEARING (TURBOCHARGER CARTRIDGE)					
					(INCLUDES BEARING KITS)						
J			108-9342	1	KIT-CARTRIDGE (TURBOCHARGER)						
J - KIT MARKED J INCLUDES PARTS MARKED J											

AIR INLET AND EXHAUST SYSTEM

100-4095 CARTRIDGE GP - TURBOCHARGER (contd.)

i02775771



GRAPHIC #1

<END>

g00705354

AIR INLET AND EXHAUST SYSTEM

107-8702 CARTRIDGE GP - TURBOCHARGER*R

S/N: ZBA1-UP

PART OF 102-0278 TURBOCHARGER GP
ALSO AN ATTACHMENT

SMCS-1053

i02799438

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1N-3365	1	COLLAR - THRUST						
J	2	1	1N-3411	1	LOCKNUT - TURBOCHARGER (7/16-20-THD)						
	3	1	1N-3505	1	SPACER - THRUST						
J	4	1	1N-3557	1	RING - SEAL						
J	5	1	1N-3712	1	BEARING - THRUST						
	6	1	4W-1223	1	SHAFT AS - TURBINE						
	7	1	4W-1224	1	HOUSING AS - BEARING						
		1	4M-6646	2	PIN - GROOVED						
	8	1	190-0388	1	SHROUD - WHEEL						
J	9	1	5P-7234	3	RING - RETAINING						
	10	1	7C-2863	1	WHEEL - COMPRESSOR						
J	11	1	9M-8919	2	RING - SEAL						
	12	1	108-9340	1	RING - SEAL						
	13	1	109-3481	1	PLATE AS - BACKING						
	14	1	2J-3118	4	BOLT - LOCKING (3/8-16X1.25-IN)						
					AVAILABLE REPAIR KIT(S):						
J			108-9342	1	KIT - CARTRIDGE (TURBOCHARGER)						
					(INCLUDES PARTS MARKED J AND SEAL - PISTON RING)						
			1N-3593	1	KIT - BEARING (TURBOCHARGER CARTRIDGE)						
					(STANDARD ID, STANDARD OD)						
A			4W-4832	1	KIT - BEARING (TURBOCHARGER CARTRIDGE)						
					(STD ID, 0.25-MM OVERSIZE OD)						
A			4W-4833	1	KIT - BEARING (TURBOCHARGER)						
					(0.25-MM UNDERSIZE ID, STD OD)						
A			4W-4834	1	KIT - BEARING (TURBOCHARGER)						
					(0.25-MM UNDERSIZE ID, 0.25-MM OVERSIZE OD)						

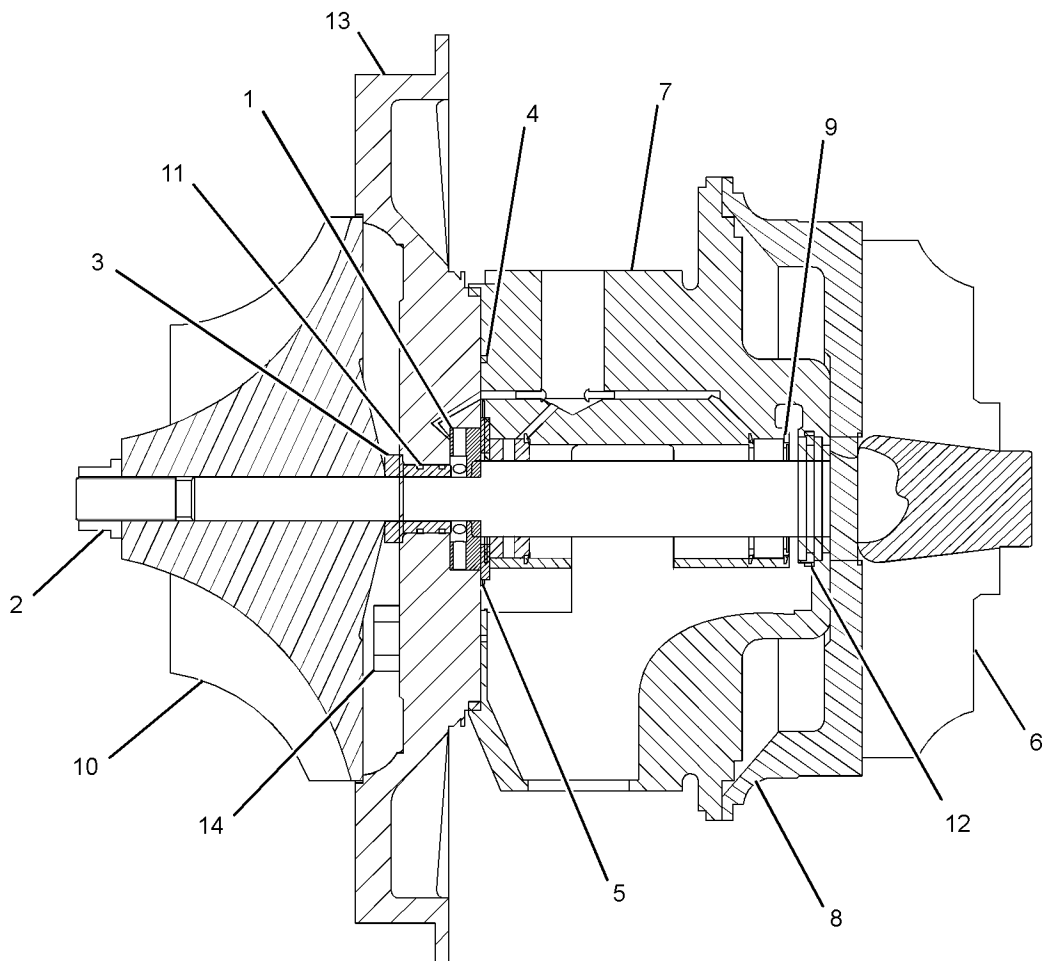
A - NOT PART OF THIS GROUP

J - KITS MARKED J INCLUDE PARTS MARKED J

AIR INLET AND EXHAUST SYSTEM

107-8702 CARTRIDGE GP - TURBOCHARGER (contd.)

i02799438



GRAPHIC #1

<END>

g01404772

AIR INLET AND EXHAUST SYSTEM

109-3856 CARTRIDGE GP-TURBOCHARGER*R

S/N: ZBA1-UP

PART OF 121-4666 TURBOCHARGER GP

SMCS-1053

i00659502

			PART NAME						SEE
NOTE	PART NUMBER	QTY	1	2	3	4	5	6 (PRODUCT LEVEL)	PAGE
			(INDIVIDUAL PARTS ARE NOT SERVICED SEPARATELY)						
			<END>						

AIR INLET AND EXHAUST SYSTEM

125-5379 CARTRIDGE GP - TURBOCHARGER*R

S/N: ZBA1-UP

PART OF 123-6478 TURBOCHARGER GP

SMCS-1053

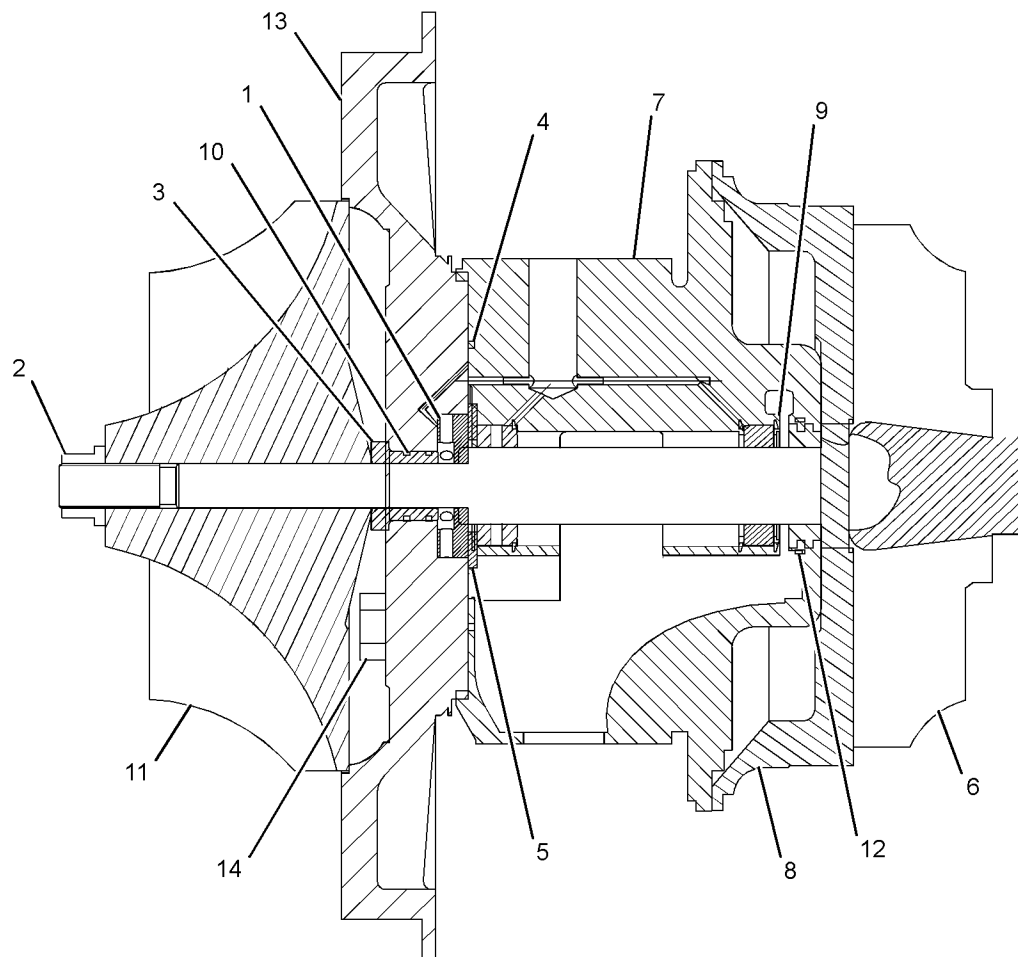
i02800988

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1N-3365	1	COLLAR-THRUST						
J	2	1	1N-3411	1	LOCKNUT-TURBOCHARGER (7/16-20-THD)						
	3	1	1N-3505	1	SPACER-THRUST						
J	4	1	1N-3557	1	RING-SEAL						
J	5	1	1N-3712	1	BEARING-THRUST						
	6	1	4W-1223	1	SHAFT AS-TURBINE						
	7	1	4W-1224	1	HOUSING AS-BEARING						
		1	4M-6646	2	PIN-GROOVED						
	8	1	190-0388	1	SHROUD-WHEEL						
J	9	1	5P-7234	3	RING-RETAINING						
J	10	1	9M-8919	2	RING-SEAL						
	11	1	106-9923	1	WHEEL-COMPRESSOR						
	12	1	108-9340	1	RING-SEAL						
	13	1	125-5378	1	BACKPLATE AS						
	14	1	2J-3118	4	BOLT-LOCKING (3/8-16X1.25-IN)						
					AVAILABLE REPAIR KIT(S):						
J			108-9342	1	KIT-CARTRIDGE (TURBOCHARGER)						
					(INCLUDES PARTS MARKED J AND SEAL PISTON RING)						
			1N-3593	1	KIT-BEARING (TURBOCHARGER CARTRIDGE)						
					(STANDARD ID, STANDARD OD)						
A			4W-4832	1	KIT-BEARING (TURBOCHARGER CARTRIDGE)						
					(STD ID, 0.25-MM OVERSIZE OD)						
A			4W-4833	1	KIT-BEARING (TURBOCHARGER)						
					(0.25-MM UNDERSIZE ID, STD OD)						
A			4W-4834	1	KIT-BEARING (TURBOCHARGER)						
					(0.25-MM UNDERSIZE ID, 0.25-MM OVERSIDE OD)						
A-NOT PART OF THIS GROUP											
J-KIT MARKED J INCLUDES PARTS MARKED J											

AIR INLET AND EXHAUST SYSTEM

125-5379 CARTRIDGE GP - TURBOCHARGER (contd.)

i02800988



GRAPHIC #1

<END>

g01404768

AIR INLET AND EXHAUST SYSTEM

173-1937 CARTRIDGE GP-TURBOCHARGER

S/N: ZBA1-UP

PART OF 207-5250 TURBOCHARGER GP
AN ATTACHMENT

SMCS-1053

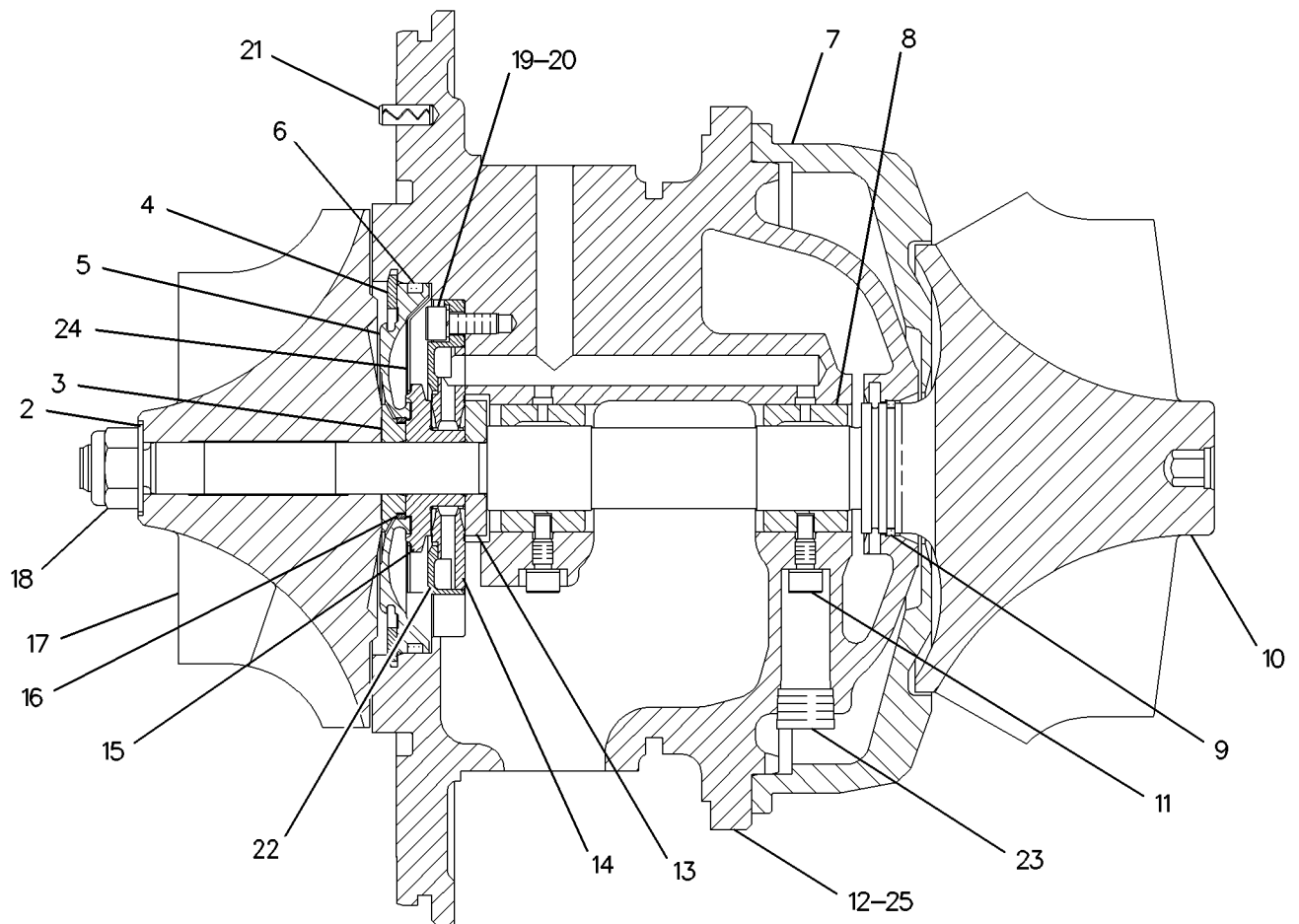
i02835216

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
J	2	1	2W-1940	1	WASHER-RETAINING						
	3	1	9Y-1676	1	RING (CARRIER SEAL)						
	4	1	3J-1577	1	RING-RETAINING (INTERNAL)						
	5	1	9Y-1677	1	COVER (THRUST BEARING)						
J	6	1	6V-6353	1	SEAL-O-RING						
	7	1	7E-0359	1	SHROUD (HEAT)						
J	8	1	9Y-1679	2	BEARING (JOURNAL)						
J	9	1	9Y-2053	1	RING (SEAL)						
	10	1	185-0091	1	SHAFT AS						
JM	11	1	9Y-2051	2	BOLT AS						
	12	1	133-3954	1	HOUSING-BEARING (WATERCOOLED)						
	13	1	9Y-1683	1	RING (THRUST)						
J	14	1	7E-0360	1	BEARING (THRUST)						
	15	1	9Y-1685	1	RING (FLINGER, THRUST)						
J	16	1	9Y-2052	1	RING (SEAL)						
	17	1	9Y-1687	1	WHEEL						
JM	18	1	2W-1268	1	LOCKNUT (M14X1.5-THD)						
M	19	1	6V-5683	3	BOLT (M6X1X16-MM)						
	20	1	6A-9204	3	LOCKWASHER						
	21	1	7X-0794	2	PIN (ROLL)						
	22	1	9Y-1690	1	RETAINER (THRUST BEARING)						
	23	1	7W-6534	1	PLUG-PIPE						
	24	1	9Y-3338	1	SHIELD (COMP SEAL)						
	25	1	7B-3028	4	SCREW-DRIVE (NO 4X3/16-IN)						
AVAILABLE REPAIR KIT(S) :											
J			7E-2747	1	KIT-REPAIR (TURBOCHARGER CARTRIDGE)						
J -KIT MARKED J SERVICES PARTS MARKED J M-METRIC PART											

AIR INLET AND EXHAUST SYSTEM

173-1937 CARTRIDGE GP - TURBOCHARGER (contd.)

i02835216



GRAPHIC #1

<END>

g00876346

AIR INLET AND EXHAUST SYSTEM

177-4166 CARTRIDGE GP - TURBOCHARGER

S/N: ZBA1-UP

PART OF 171-2326 TURBOCHARGER GP

SMCS-1053

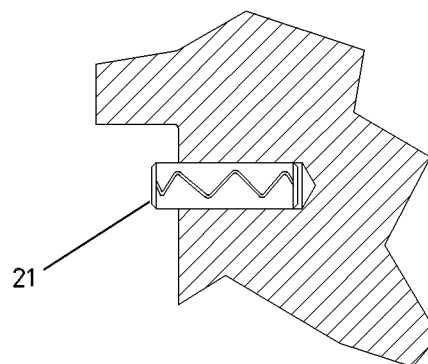
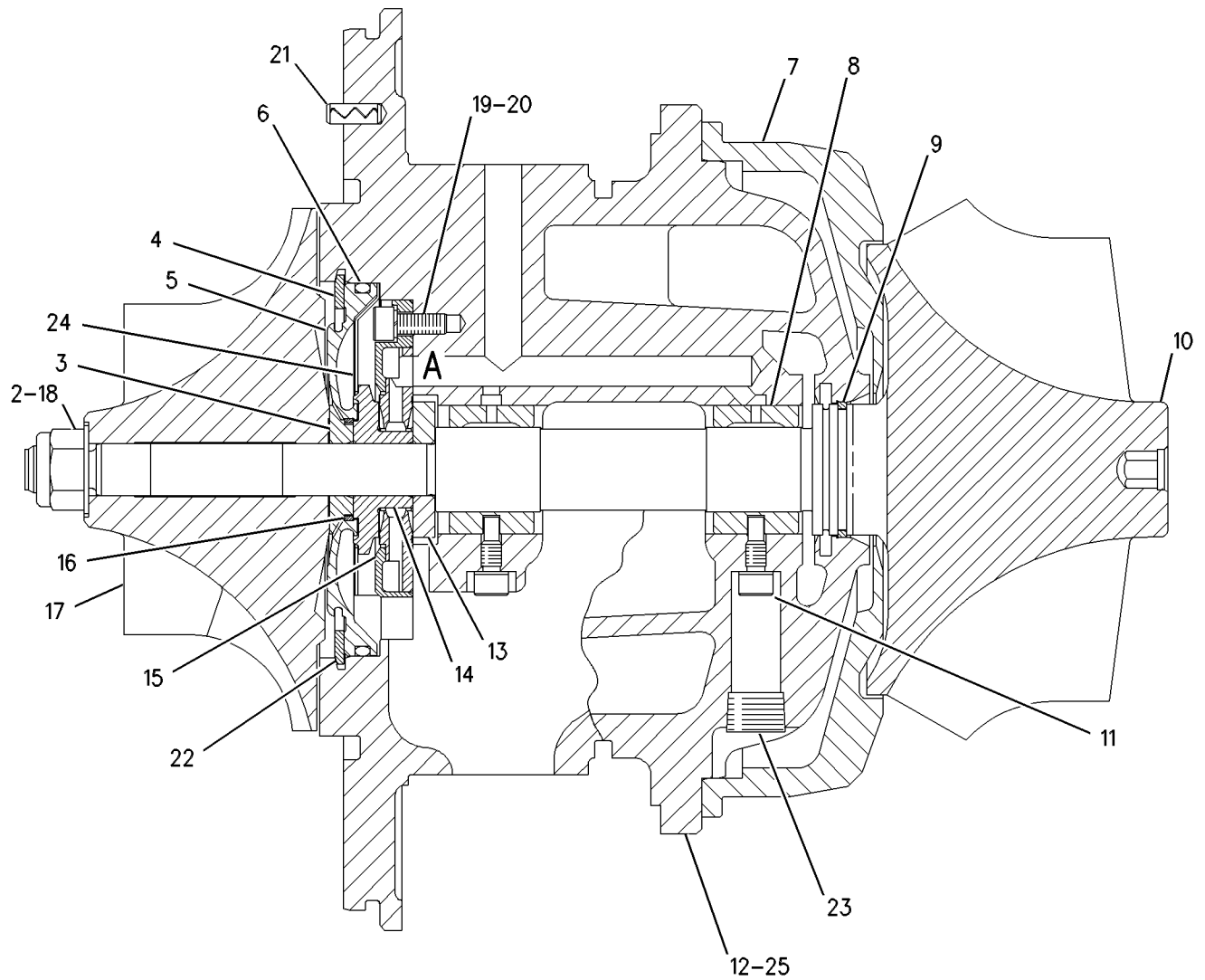
i02868480

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
J	2	1	2W-1940	1	WASHER-RETAINING						
	3	1	9Y-1676	1	RING (CARRIER SEAL)						
	4	1	3J-1577	1	RING-RETAINING (INTERNAL)						
	5	1	9Y-1677	1	COVER (THRUST BEARING)						
J	6	1	6V-6353	1	SEAL-O-RING						
	7	1	7E-0359	1	SHROUD (HEAT)						
J	8	1	9Y-1679	2	BEARING (JOURNAL)						
J	9	1	9Y-2053	1	RING (SEAL)						
	10	1	185-0091	1	SHAFT AS						
JM	11	1	9Y-2051	2	BOLT AS						
	12	1	174-4453	1	HOUSING-BEARING						
	13	1	9Y-1683	1	RING (THRUST)						
J	14	1	7E-0360	1	BEARING (THRUST)						
	15	1	9Y-1685	1	RING (FLINGER, THRUST)						
J	16	1	9Y-2052	1	RING (SEAL)						
	17	1	9Y-1687	1	WHEEL						
JM	18	1	2W-1268	1	LOCKNUT (M14X1.5-THD)						
M	19	1	6V-5683	3	BOLT (M6X1X16-MM)						
	20	1	6A-9204	3	LOCKWASHER						
	21	1	7X-0794	2	PIN (ROLL)						
	22	1	9Y-1690	1	RETAINER (THRUST BEARING)						
	23	1	7W-6534	1	PLUG-PIPE						
	24	1	9Y-3338	1	SHIELD (COMP SEAL)						
	25	1	7B-3028	4	SCREW-DRIVE (NO 4X3/16-IN)						
AVAILABLE REPAIR KIT(S) :											
J			7E-2747	1	KIT-REPAIR (TURBOCHARGER CARTRIDGE)						
(INCLUDES LOCKNUT , WASHER, SEAL-O-RING, BEARINGS, BOLT AS, AND RING SEALS)											
J-KIT MARKED J INCLUDES PARTS MARKED J											
M-METRIC PART											

AIR INLET AND EXHAUST SYSTEM

177-4166 CARTRIDGE GP - TURBOCHARGER (contd.)

i02868480



SECTION VIEW
OF AREA A

GRAPHIC #1

<END>

g00629373

AIR INLET AND EXHAUST SYSTEM

163-9388 COVER GP -AFTERCOOLER

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1063

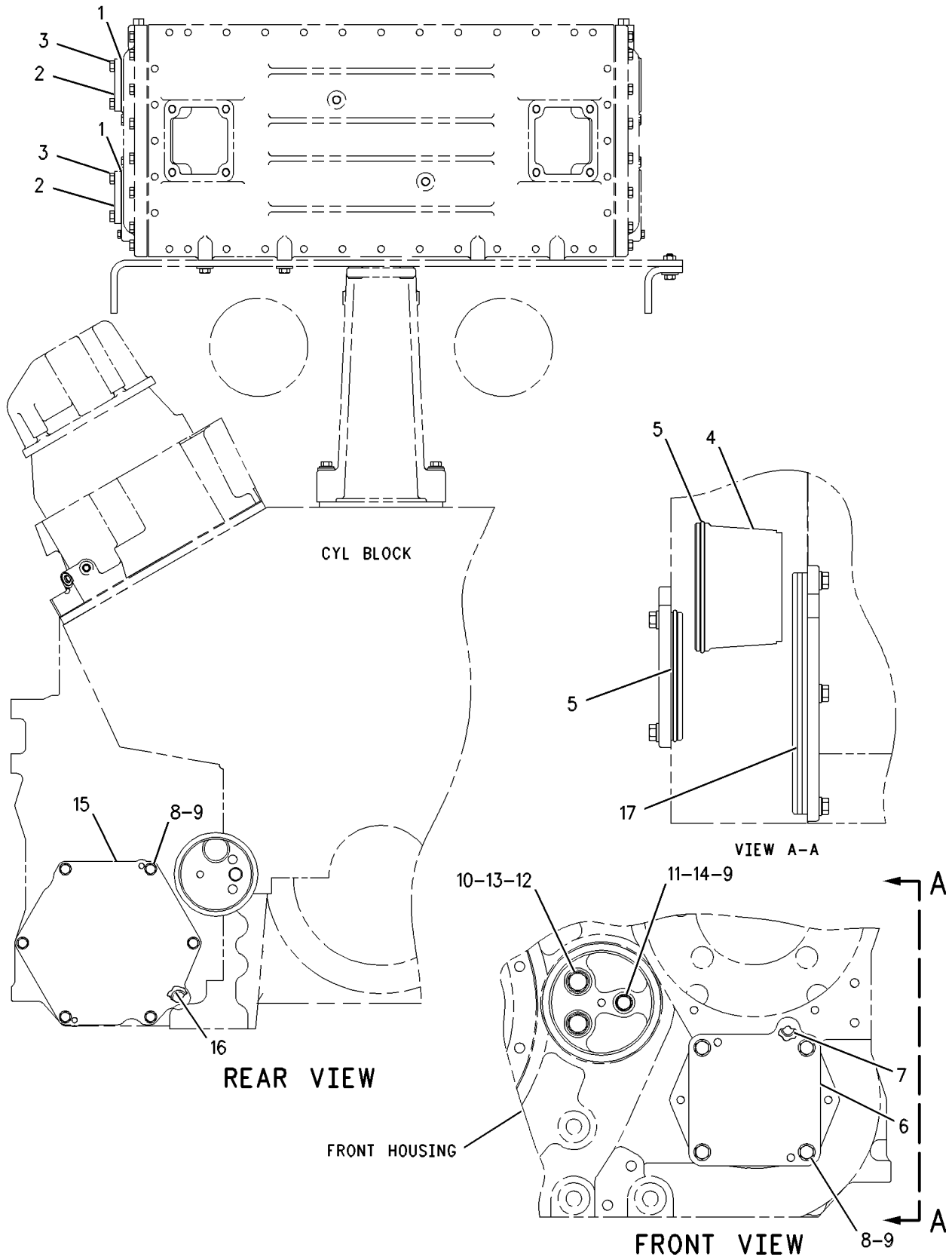
i02125600

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	4N-1418	2	GASKET-RADIATOR INLET	
	2	1	172-1249	2	PLATE	
	3	1	0S-1594	8	BOLT (3/8-16X1-IN)	
	4	1	8N-9658	1	PLUG	
	5	1	235-3548	2	SEAL-O-RING	
	6	1	7N-4952	1	COVER	
	7	1	5P-0840	1	SEAL-O-RING	
	8	1	1A-2029	10	BOLT (3/8-16X1.125-IN)	
	9	1	5M-2894	11	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	10	1	9X-8874	2	BOLT (1/2-13X3-IN)	
	11	1	1C-2251	1	BOLT (3/8-16X1.87-IN)	
	12	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)	
	13	1	5R-7137	2	WASHER-SEALING	
	14	1	5R-7136	1	WASHER-SEALING	
	15	1	7N-4951	1	COVER	
	16	1	6V-3348	1	SEAL-O-RING	
	17	1	235-3546	1	SEAL-O-RING	

AIR INLET AND EXHAUST SYSTEM

163-9388 COVER GP -AFTERCOOLER (contd.)

i02125600



GRAPHIC #1

<END>

g00553490

AIR INLET AND EXHAUST SYSTEM

8N-8487 ELBOW GP-EXHAUST

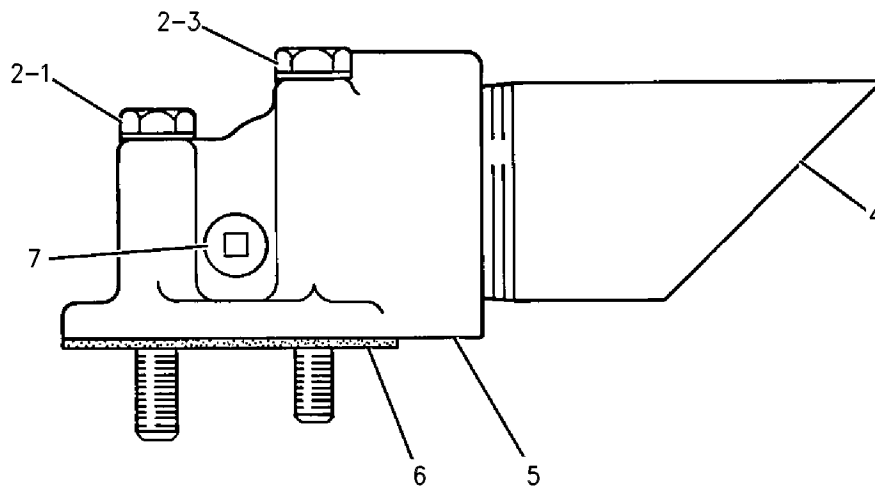
S/N: ZBA1-UP

FOR USE WITH AIR STARTING MOTOR
AN ATTACHMENT

SMCS-1061

i02220738

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1D-4566	2	BOLT (1/2-13X3.5-IN)						
	2	1	5P-8245	4	WASHER-HARD (13.5X25.5X3-MM THK)						
	3	1	1D-4569	2	BOLT (1/2-13X4.25-IN)						
	4	1	6N-4857	1	FITTING						
	5	1	8N-8447	1	ELBOW						
	6	1	8N-8452	1	GASKET						
	7	1	8T-6762	1	PLUG-PIPE						



GRAPHIC #1

<END>

g00625351

AIR INLET AND EXHAUST SYSTEM

5L - 6954 ELBOW - EXHAUST

S/N: ZBA1-UP

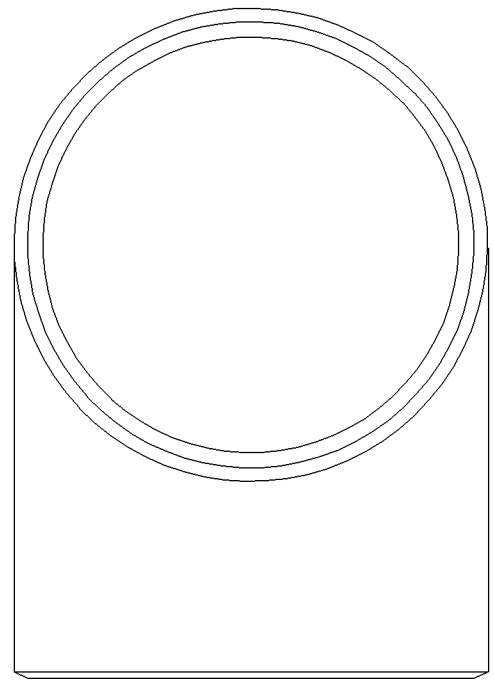
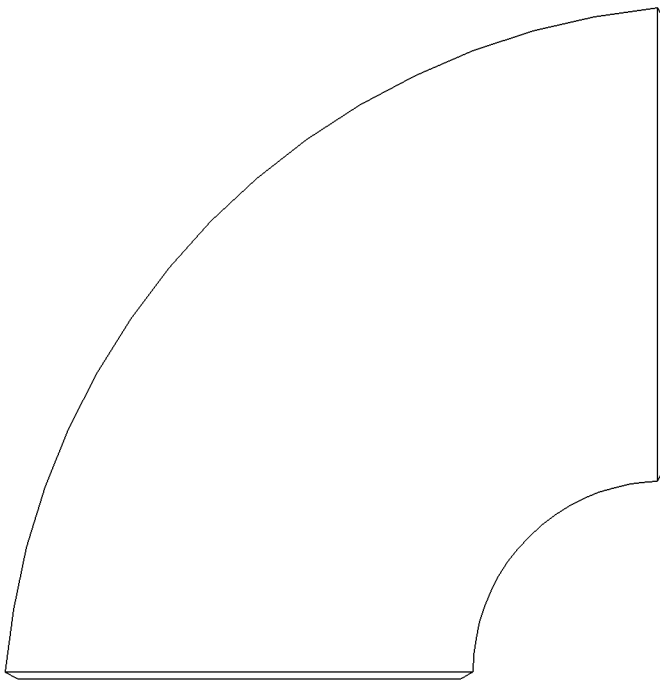
12-IN

AN ATTACHMENT

SMCS-1061

i01213269

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



GRAPHIC #1

<END>

g00648631

AIR INLET AND EXHAUST SYSTEM

5L-7520 ELBOW-EXHAUST

S/N: ZBA1-UP

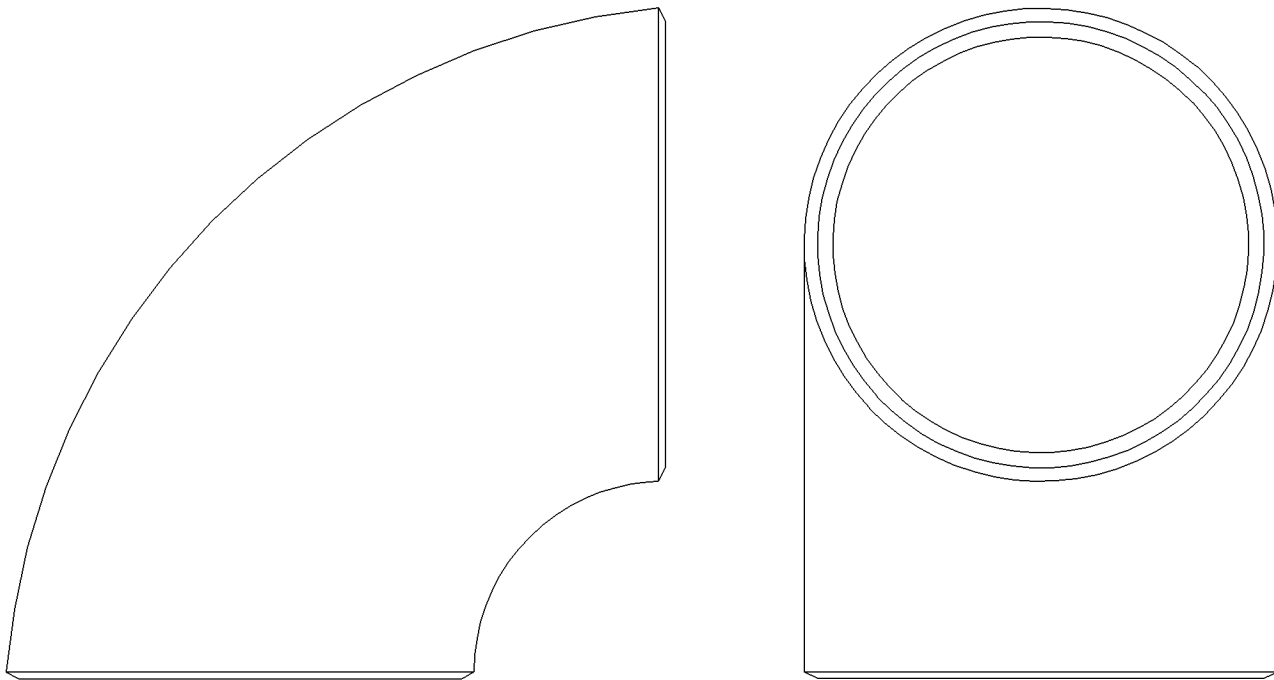
8-IN

AN ATTACHMENT

SMCS-1061

i01450469

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



GRAPHIC #1

<END>

g00648631

AIR INLET AND EXHAUST SYSTEM

5N-2458 ELBOW-EXHAUST

S/N: ZBA1-UP

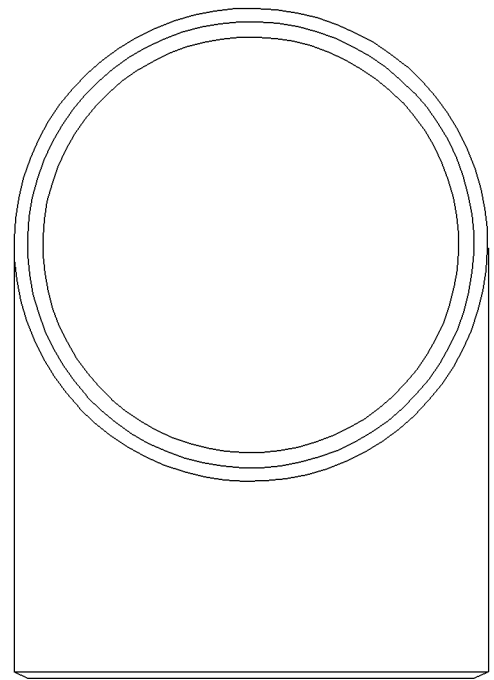
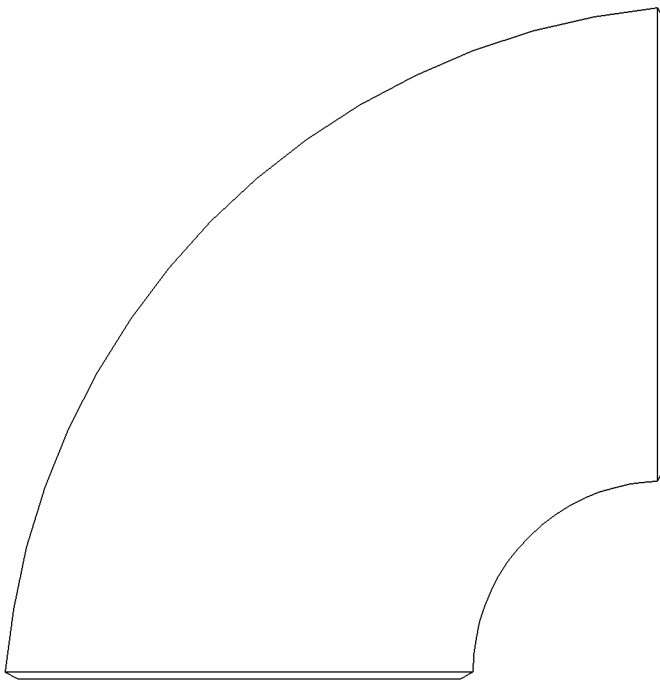
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AN ATTACHMENT

SMCS-1061

i02729077

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



GRAPHIC #1

<END>

g00648631

AIR INLET AND EXHAUST SYSTEM

5N-2457 FITTING GP-EXHAUST-FLEXIBLE

S/N: ZBA1-UP

203.2-MM

AN ATTACHMENT

SMCS-1061

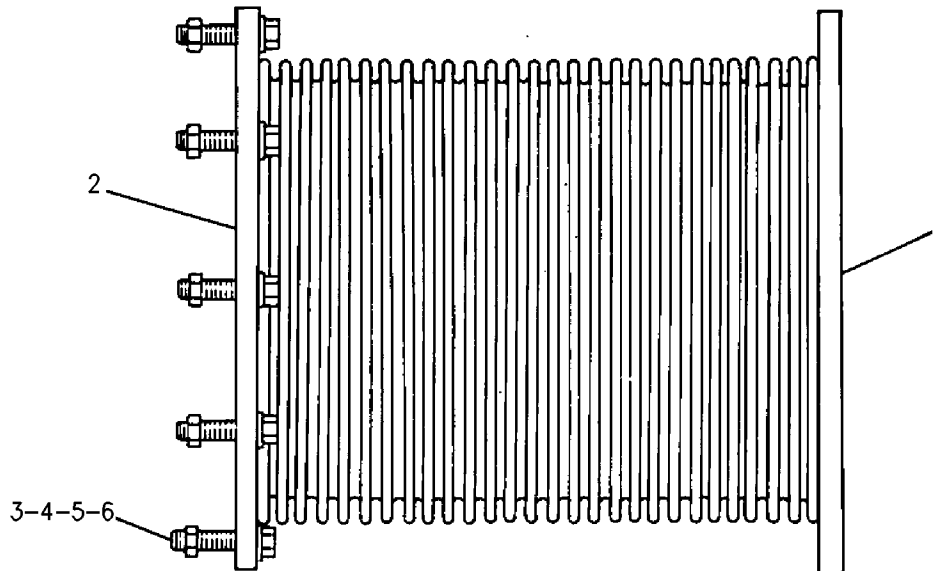
i02691220

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	214-6045	1	BELLOWS AS						
	2	1	245-3512	1	GASKET (EXHAUST)						
	3	1	3V-3308	8	WASHER-HARD (10.2X20.5X2.5-MM THK)						
BL	4	1	0S-1588	8	BOLT (3/8-16X1.25-IN)						
BJ	5	1	0S-1571	8	BOLT (3/8-16X1.75-IN)						
BJ	6	1	9S-8752	8	NUT-FULL (3/8-16-THD)						

B-USE AS REQUIRED

J- FOR USE WITH HOT EXHAUST

L- FOR USE WITH WATER COOLED EXHAUST



GRAPHIC #1

<END>

g00705439

AIR INLET AND EXHAUST SYSTEM

5N-9527 FITTING GP-EXHAUST-FLEXIBLE

S/N: ZBA1-UP

305-MM

FOR USE WITH WATERCOOLED, HOT EXHAUST STACKS
AN ATTACHMENT

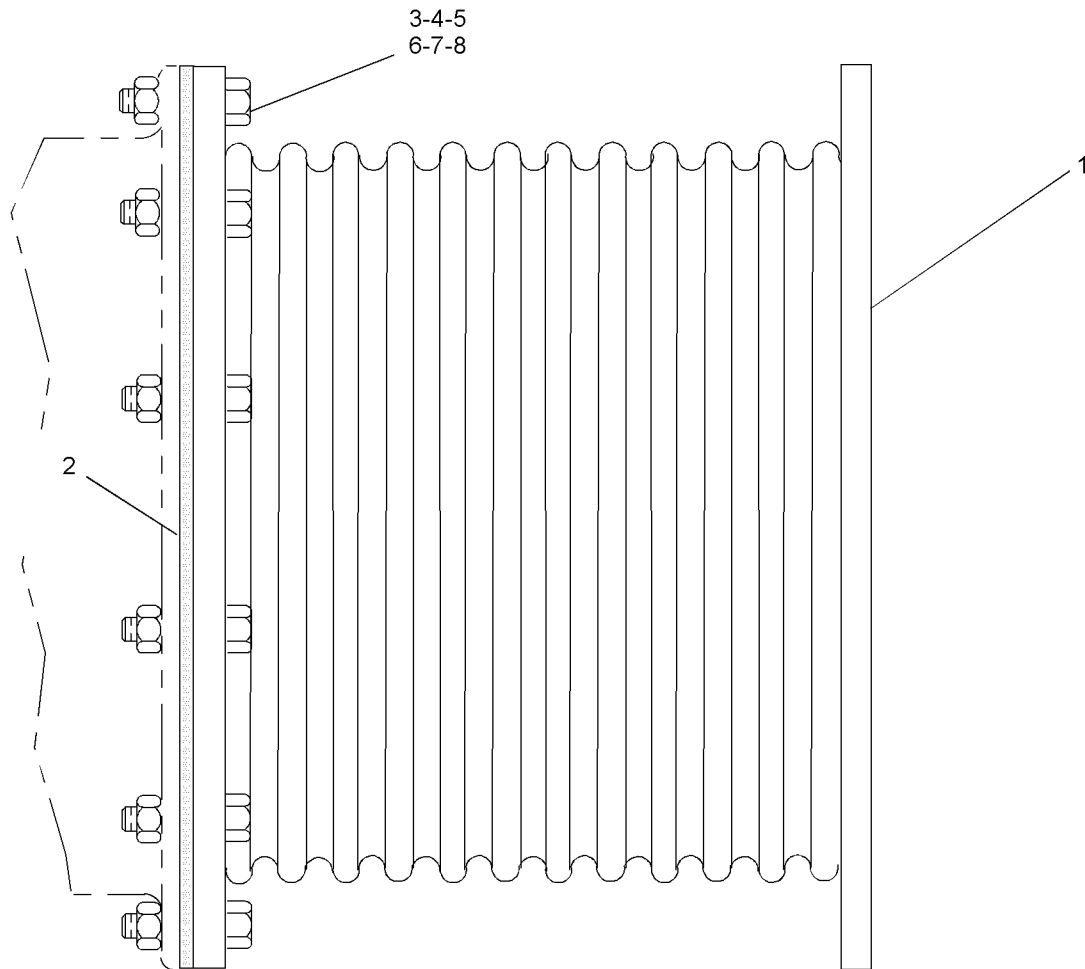
SMCS-1061

i02219329

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	207-1332	1	BELLOWS AS						
	2	1	2W-7873	1	GASKET-EXHAUST						
B	3	1	5L-4398	12	BOLT (1/2-13X2.25-IN)						
B	4	1	1B-5357	12	NUT-FULL (1/2-13-THD)						
B	5	1	5P-8245	24	WASHER-HARD (13.5X25.5X3-MM THK)						
BJ	6	1	0S-1571	12	BOLT (3/8-16X1.75-IN)						
BJ	7	1	1B-5355	12	NUT-FULL (3/8-16-THD)						
BJ	8	1	5M-2894	12	WASHER-HARD (10.2X18.5X2.5-MM THK)						

B-USE AS REQUIRED

J-FOR USE WITH 1W5532 ELBOW OR 7N6959 ADAPTER



GRAPHIC #1

<END>

g01109652

AIR INLET AND EXHAUST SYSTEM

7N-6967 FITTING GP-EXHAUST

S/N: ZBA1-UP

305-MM

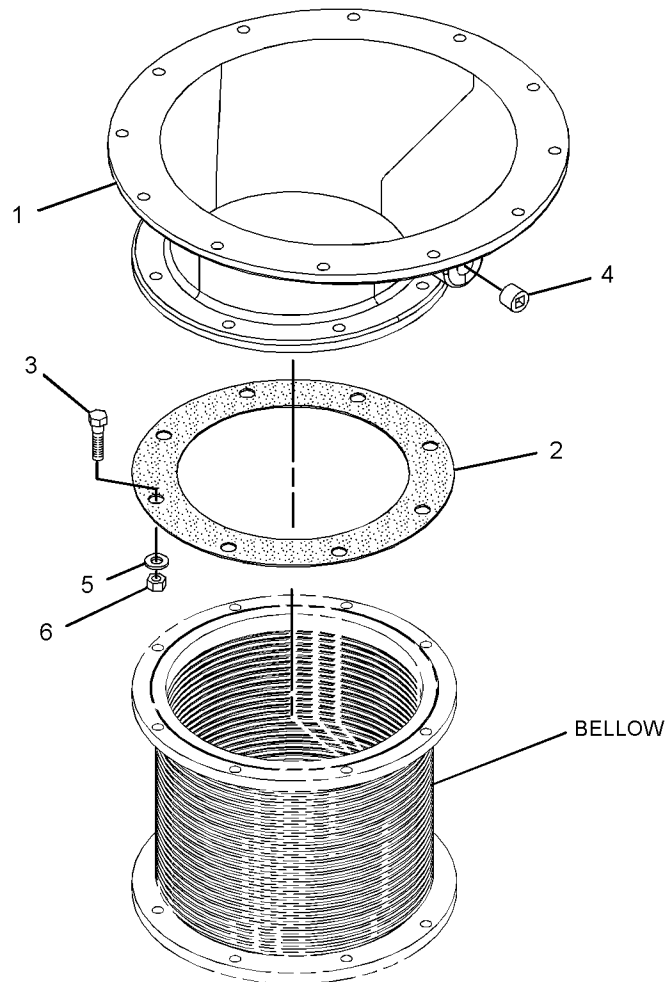
AN ATTACHMENT

SMCS-1061

i02691223

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7N-6959	1	ADAPTER						
	2	1	245-3512	1	GASKET (EXHAUST)						
B	3	1	0S-1591	8	BOLT (3/8-16X1.5-IN)						
	4	1	2B-0858	1	PLUG-PIPE						
B	5	1	3V-3308	8	WASHER-HARD (10.2X20.5X2.5-MM THK)						
	6	1	9S-8752	8	NUT-FULL (3/8-16-THD)						

B-USE AS REQUIRED



GRAPHIC #1

<END>

g01353098

AIR INLET AND EXHAUST SYSTEM

7N-6968 FITTING GP-EXHAUST

S/N: ZBA1-UP

254-MM

FOR USE WITH 7N-6962-PAGE 461

AN ATTACHMENT

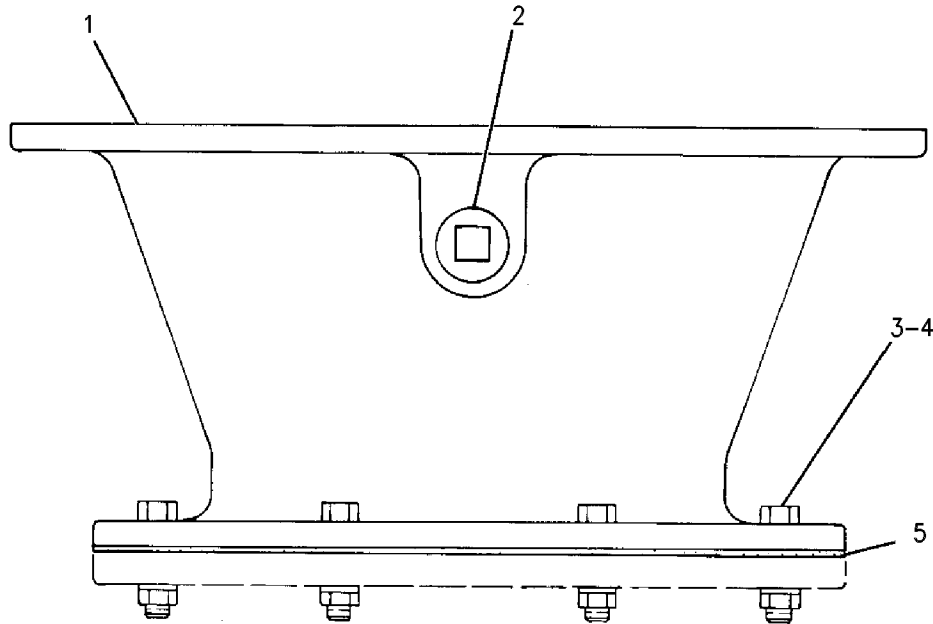
SMCS-1061

i02220724

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7N-5971	1	ADAPTER						
	2	1	2B-0858	1	PLUG-PIPE						
B	3	1	0S-1591	8	BOLT (3/8-16X1.5-IN)						
	4	1	9S-8752	8	NUT-FULL (3/8-16-THD)						
CB		1	3V-3308	8	WASHER-HARD (10.2X20.5X2.5-MM THK)						
	5	1	5L-3773	1	GASKET-EXHAUST ELBOW						

B-USE AS REQUIRED

C-CHANGE FROM PREVIOUS TYPE



GRAPHIC #1

<END>

g00622974

AIR INLET AND EXHAUST SYSTEM

2W-7866 FLANGE GP-EXHAUST

S/N: ZBA1-UP

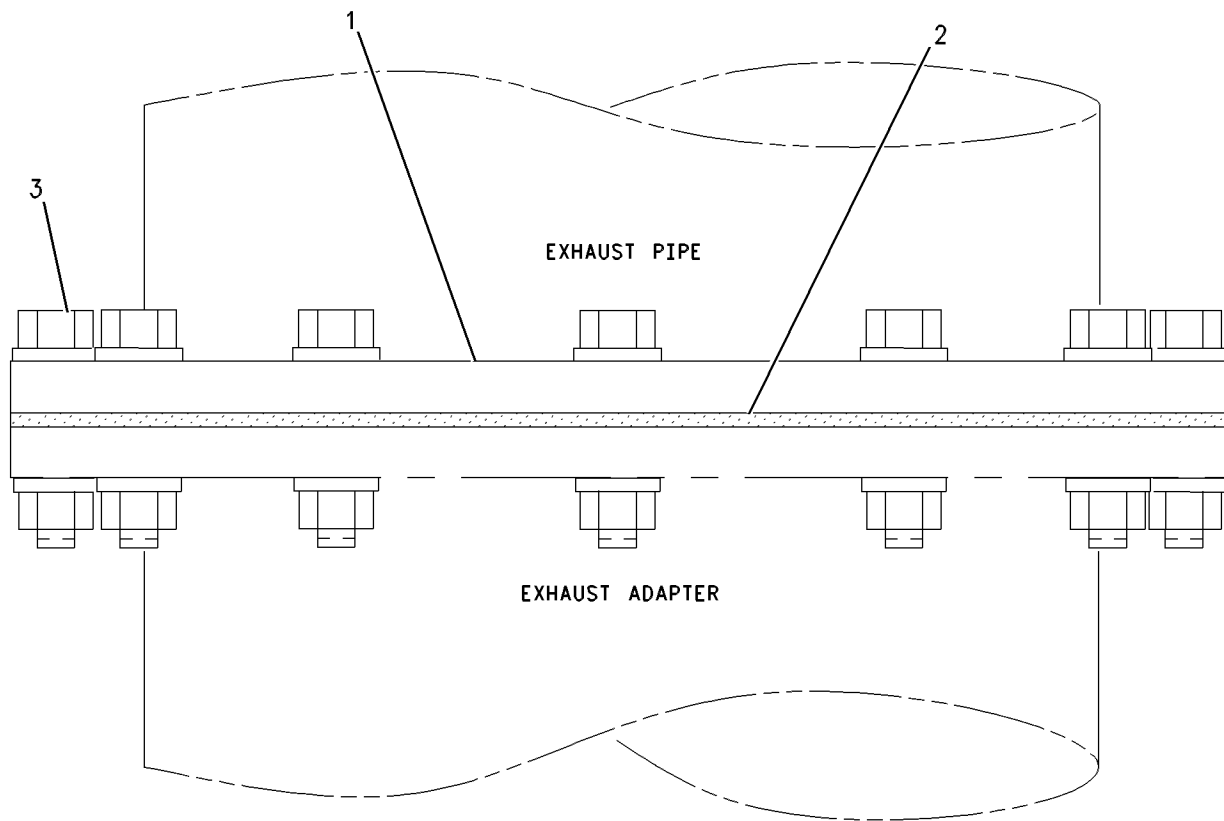
254-MM

AN ATTACHMENT

SMCS-1061

i02179546

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-7867	1	FLANGE-EXHAUST						
	2	1	2W-7868	1	GASKET-EXHAUST						
	3	1	5L-4398	12	BOLT (1/2-13X2.25-IN)						
		1	1B-5357	12	NUT-FULL (1/2-13-THD)						
		1	5P-8245	24	WASHER-HARD (13.5X25.5X3-MM THK)						



GRAPHIC #1

<END>

g00618627

AIR INLET AND EXHAUST SYSTEM

2W-7871 FLANGE GP-EXHAUST

S/N: ZBA1-UP

323.9-MM

AN ATTACHMENT

SMCS-1061

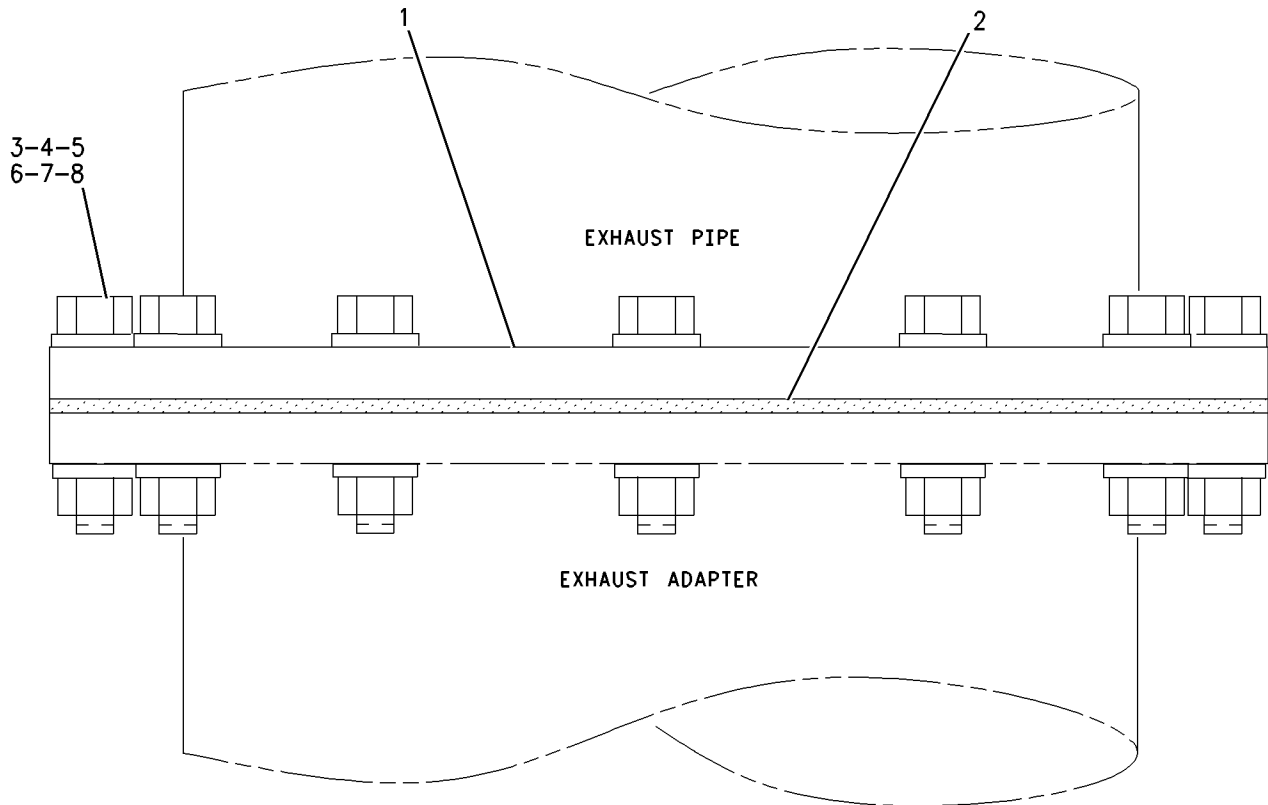
i02153824

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-7872	1	FLANGE-EXHAUST						
	2	1	2W-7873	1	GASKET-EXHAUST						
BL	3	1	5L-4398	12	BOLT (1/2-13X2.25-IN)						
BL	4	1	1B-5357	12	NUT-FULL (1/2-13-THD)						
BL	5	1	5P-8245	24	WASHER-HARD (13.5X25.5X3-MM THK)						
BJ	6	1	0S-1571	12	BOLT (3/8-16X1.75-IN)						
BJ	7	1	1B-5355	12	NUT-FULL (3/8-16-THD)						
BJ	8	1	9L-9132	24	WASHER (10.2X25.5X2.5-MM THK)						

B-USE AS REQUIRED

J-FOR USE WITH ENGINE EXHAUST ELBOW OR EXPANDER FITTING GP

L-FOR USE WITH FLEXIBLE FITTING GP OR MUFFLER GP



GRAPHIC #1

<END>

g00705447

AIR INLET AND EXHAUST SYSTEM

7N-6961 FLANGE GP-EXHAUST

S/N: ZBA1-UP

203-MM

AN ATTACHMENT

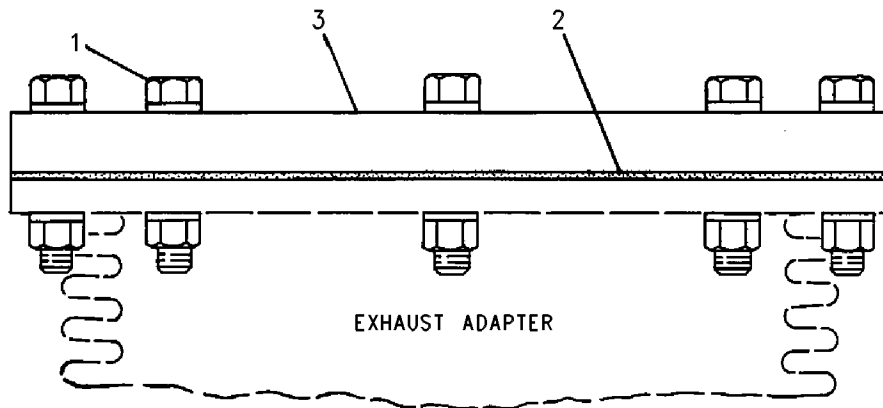
SMCS-1061

i02327546

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
B	1	1	0S-1590	8	BOLT (3/8-16X2-IN)						
		1	9S-8752	8	NUT-FULL (3/8-16-THD)						
BC		1	3V-3308	16	WASHER-HARD (10.2X20.5X2.5-MM THK)						
	2	1	5L-3773	1	GASKET-EXHAUST ELBOW						
	3	1	7N-6955	1	FLANGE						

B-USE AS REQUIRED

C-CHANGE FROM PREVIOUS TYPE



GRAPHIC #1

<END>

g00622100

AIR INLET AND EXHAUST SYSTEM

7N-6962 FLANGE GP-EXHAUST

S/N: ZBA1-UP

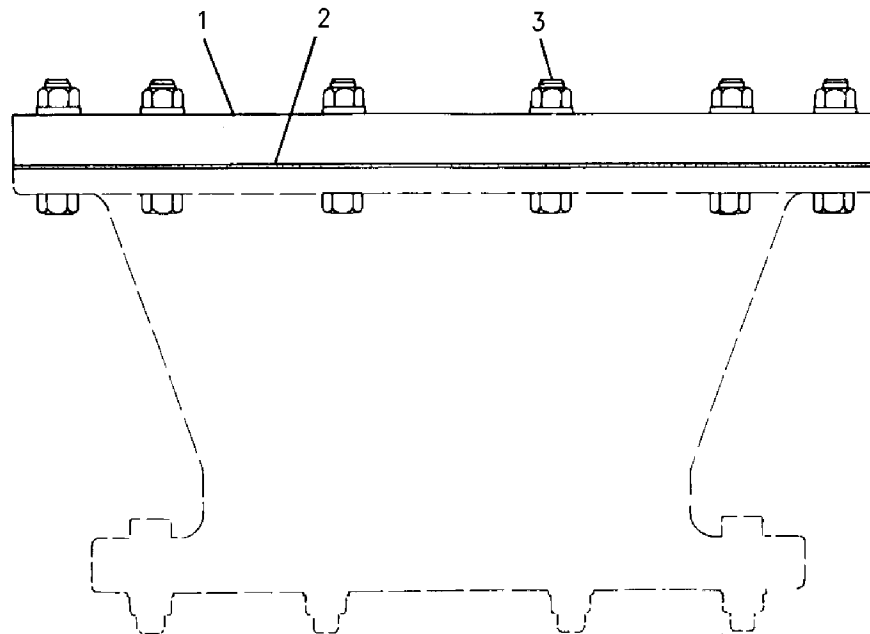
254-MM

AN ATTACHMENT

SMCS-1061

i02220722

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7N-6954	1	FLANGE						
	2	1	7N-6957	1	GASKET						
	3	1	0S-1571	12	BOLT (3/8-16X1.75-IN)						
		1	9S-8752	12	NUT-FULL (3/8-16-THD)						
		1	5M-2894	12	WASHER-HARD (10.2X18.5X2.5-MM THK)						



GRAPHIC #1

<END>

g00622145

AIR INLET AND EXHAUST SYSTEM

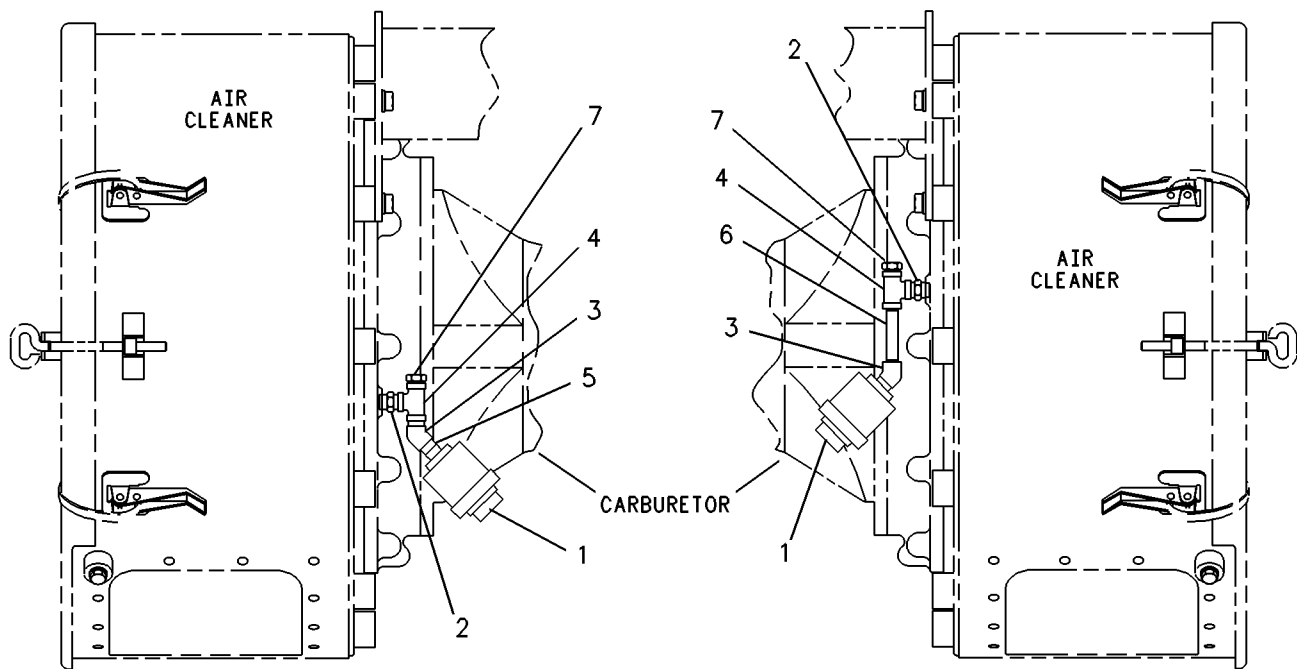
4P-9597 INDICATOR GP-AIR FILTER CHANGE

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-7452

i02211788

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4W-5820	2	INDICATOR-AIR FILTER CHANGE						
	2	1	5L-3233	2	FITTING						
	3	1	8L-5008	2	ELBOW-PIPE						
	4	1	5P-3741	2	TEE-PIPE						
	5	1	6V-2610	1	FITTING						
	6	1	3B-7285	1	NIPPLE-PIPE						
	7	1	8T-6764	2	PLUG-PIPE						



FRONT VIEW

GRAPHIC #1

<END>

g00228872

AIR INLET AND EXHAUST SYSTEM

7N-6782 INDICATOR GP-AIR FILTER CHANGE

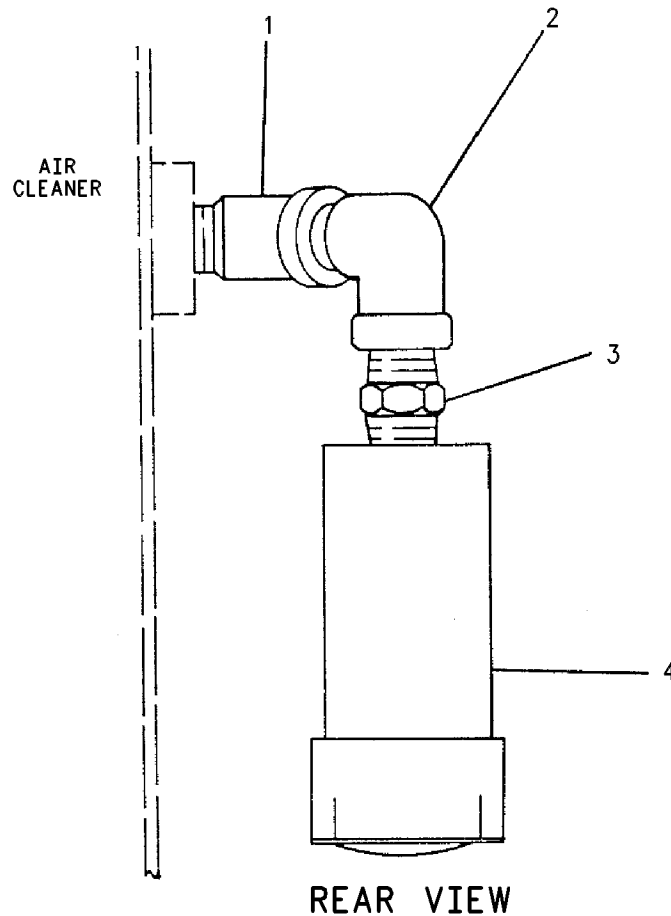
S/N: ZBA1-UP

CANNOT BE USED WITH PREMIUM INSTRUMENT PANEL
AN ATTACHMENT

SMCS-7452

i02230819

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8L-5008	2	ELBOW-PIPE						
	2	1	3B-6552	2	ELBOW						
	3	1	5L-3233	2	FITTING						
	4	1	6I-2933	2	INDICATOR GP-AIR FILTER CHANGE						



GRAPHIC #1

<END>

g00622080

AIR INLET AND EXHAUST SYSTEM

7W-1678 INDICATOR GP-AIR FILTER CHANGE

S/N: ZBA1-UP

PART OF 214-6134 AIR CLEANER GP

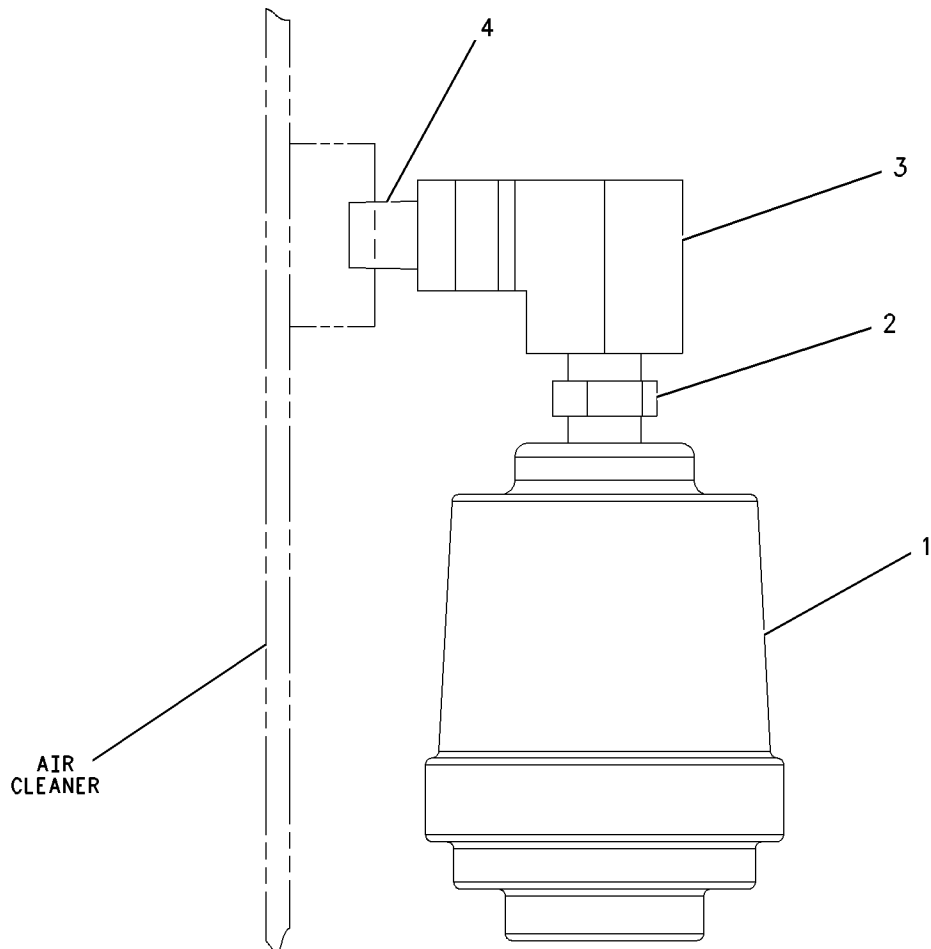
FOR USE WITH TURBOCHARGED AFTERCOOLED ENGINES

AN ATTACHMENT

SMCS-7452

i02139335

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4W-5820	2	INDICATOR-AIR FILTER CHANGE						
	2	1	5L-3233	2	FITTING						
	3	1	3B-6552	2	ELBOW						
	4	1	8L-5008	2	ELBOW-PIPE						



GRAPHIC #1

<END>

g00779785

AIR INLET AND EXHAUST SYSTEM

9Y-8220 INDICATOR GP-AIR FILTER CHANGE

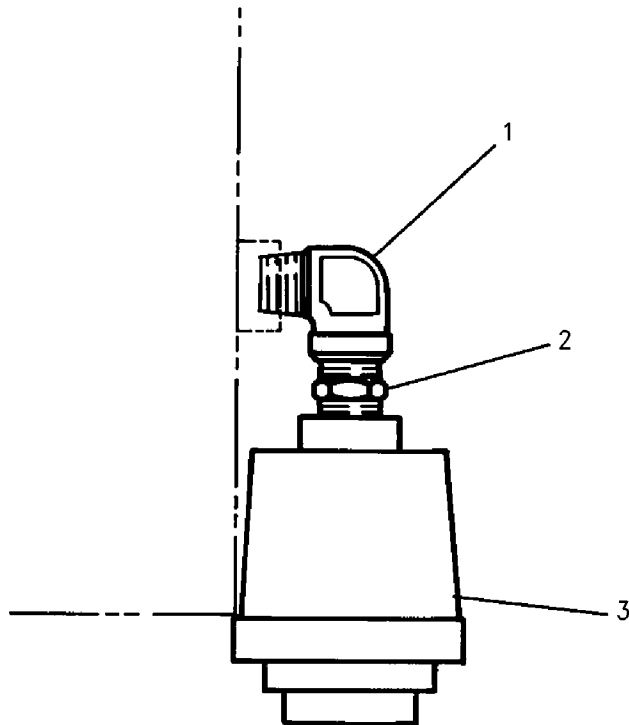
S/N: ZBA1-UP

PART OF 4P-8345 BREATHER GP

SMCS-7452

i02215969

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3B-6552	1	ELBOW						
	2	1	5L-3233	1	FITTING						
	3	1	9Y-8869	1	INDICATOR (AIR FILTER SERVICE)						



GRAPHIC #1

<END>

g00726510

AIR INLET AND EXHAUST SYSTEM

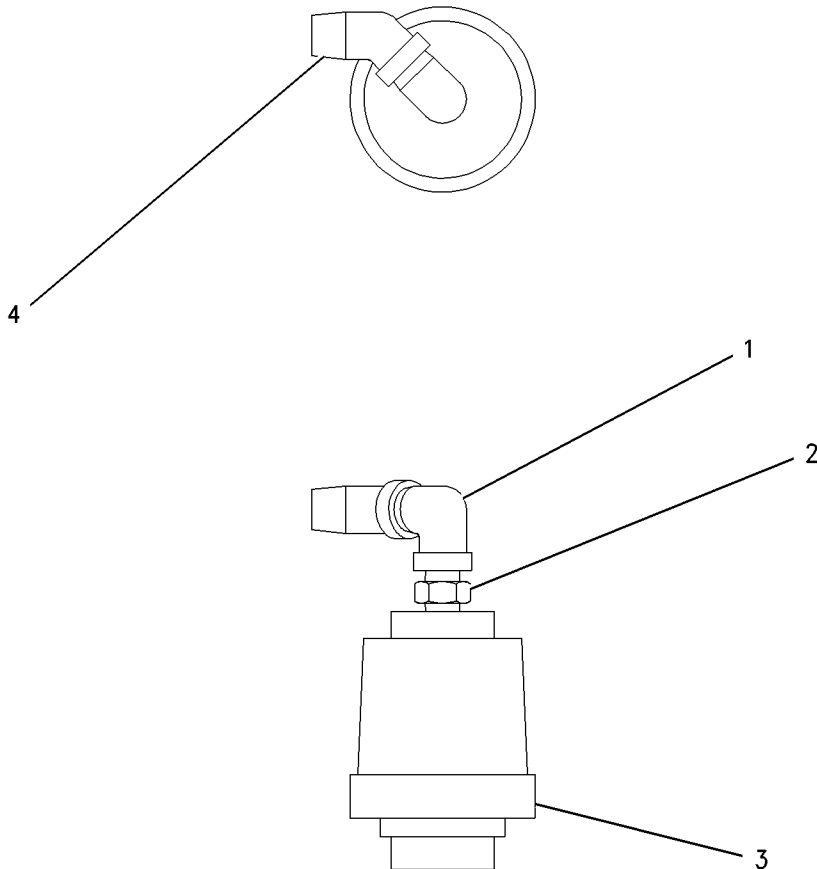
165 - 3976 INDICATOR GP-AIR FILTER CHANGE

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-7452

i02224394

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3B-6552	1	ELBOW						
	2	1	5L-3233	1	FITTING						
	3	1	4W-5820	1	INDICATOR-AIR FILTER CHANGE						
	4	1	8L-5008	1	ELBOW-PIPE						



GRAPHIC #1

<END>

g00646576

AIR INLET AND EXHAUST SYSTEM

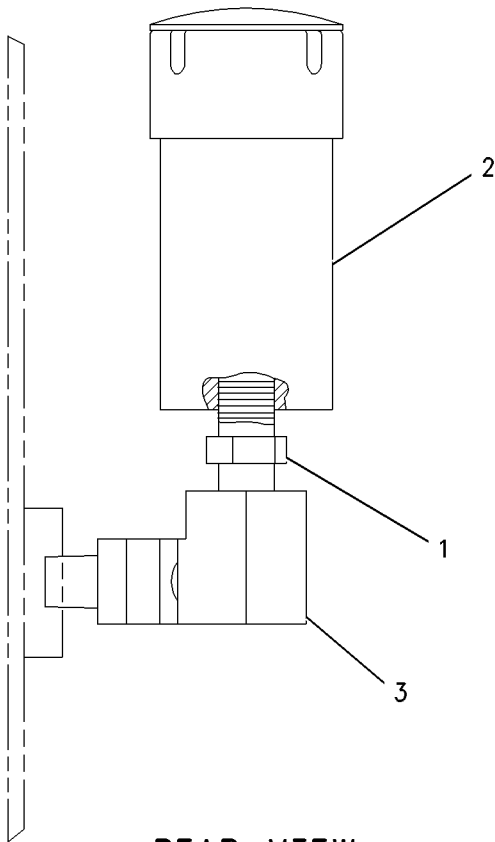
213-1412 INDICATOR GP-AIR FILTER CHANGE

S/N: ZBA1-UP
AN ATTACHMENT

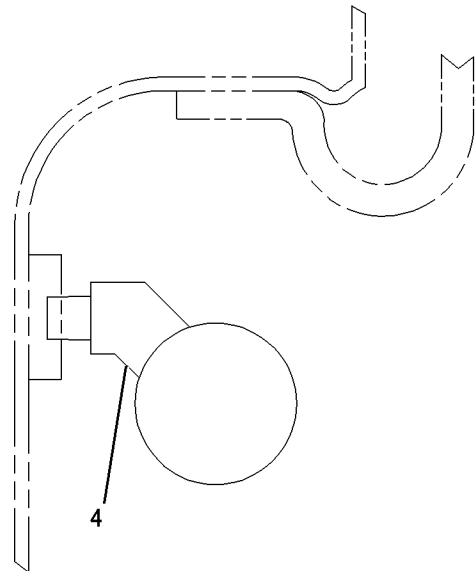
SMCS-7452

i02230845

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5L-3233	2	FITTING						
	2	1	6I-2933	2	INDICATOR GP-AIR FILTER CHANGE						
	3	1	3B-6552	2	ELBOW						
	4	1	8L-5008	2	ELBOW-PIPE						



REAR VIEW



TOP VIEW

GRAPHIC #1

<END>

g00833429

AIR INLET AND EXHAUST SYSTEM

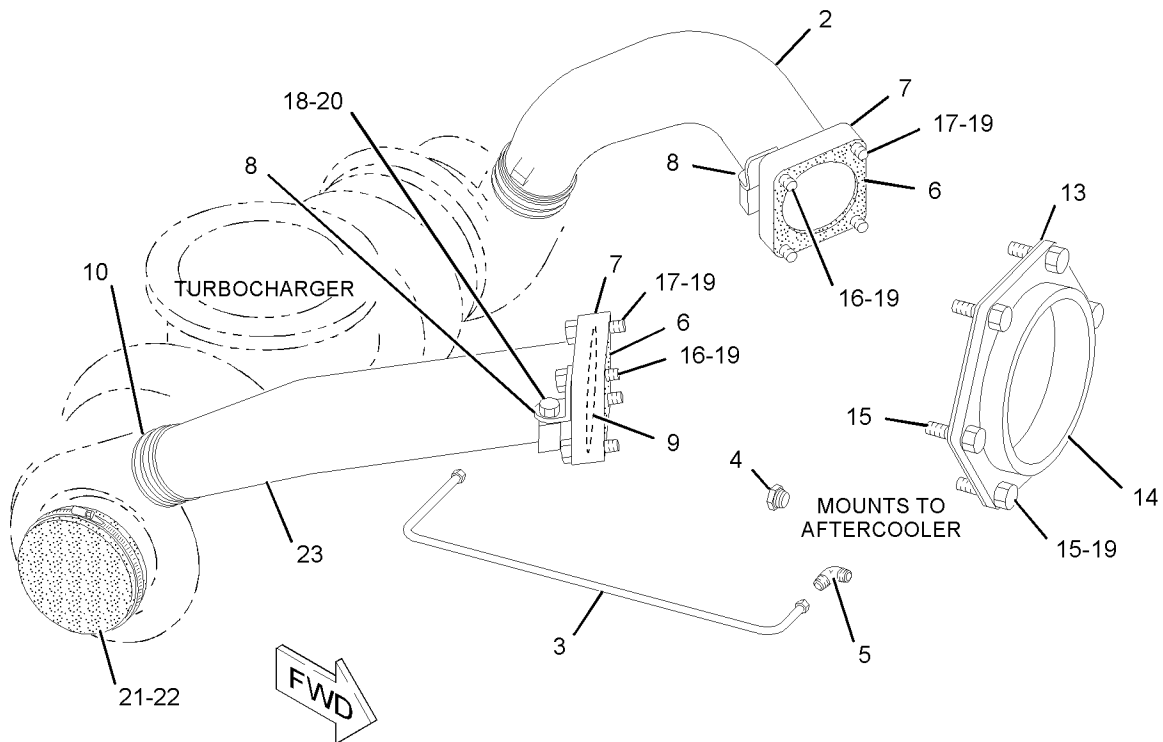
4W-5773 LINES GP-AFTERCOOLER AIR

S/N: ZBA1-UP

SMCS-1063, 1071

i02754101

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	2	1	2W-7962	1	PIPE-LH						
	3	1	2W-5708	1	TUBE AS						
	4	1	8T-6765	1	PLUG-PIPE						
	5	1	032-1268	1	ELBOW-FLARED						
	6	1	7L-4302	2	GASKET						
	7	1	2W-7111	2	FLANGE						
	8	1	4W-3851	2	BRACKET						
	9	1	6V-2695	4	SEAL-O-RING						
	10	1	5P-5700	4	SEAL-O-RING						
	13	1	4W-9725	1	GASKET						
	14	1	4W-9726	1	FLANGE						
	15	1	7B-3235	6	BOLT (1/2-13X1.375-IN)						
	16	1	1A-5822	2	BOLT (1/2-13X2.75-IN)						
	17	1	9S-1366	6	BOLT (1/2-13X2.5-IN)						
	18	1	1A-2029	2	BOLT (3/8-16X1.125-IN)						
	19	1	5P-8245	14	WASHER-HARD (13.5X25.5X3-MM THK)						
	20	1	9X-6458	2	WASHER-HARD (10.2X22.5X3-MM THK)						
	21	1	5N-4432	2	BOOT						
	22	1	5P-3860	2	CLAMP-HOSE						
	23	1	2W-7961	1	PIPE-RH						



GRAPHIC #1

<END>

g01123365

AIR INLET AND EXHAUST SYSTEM

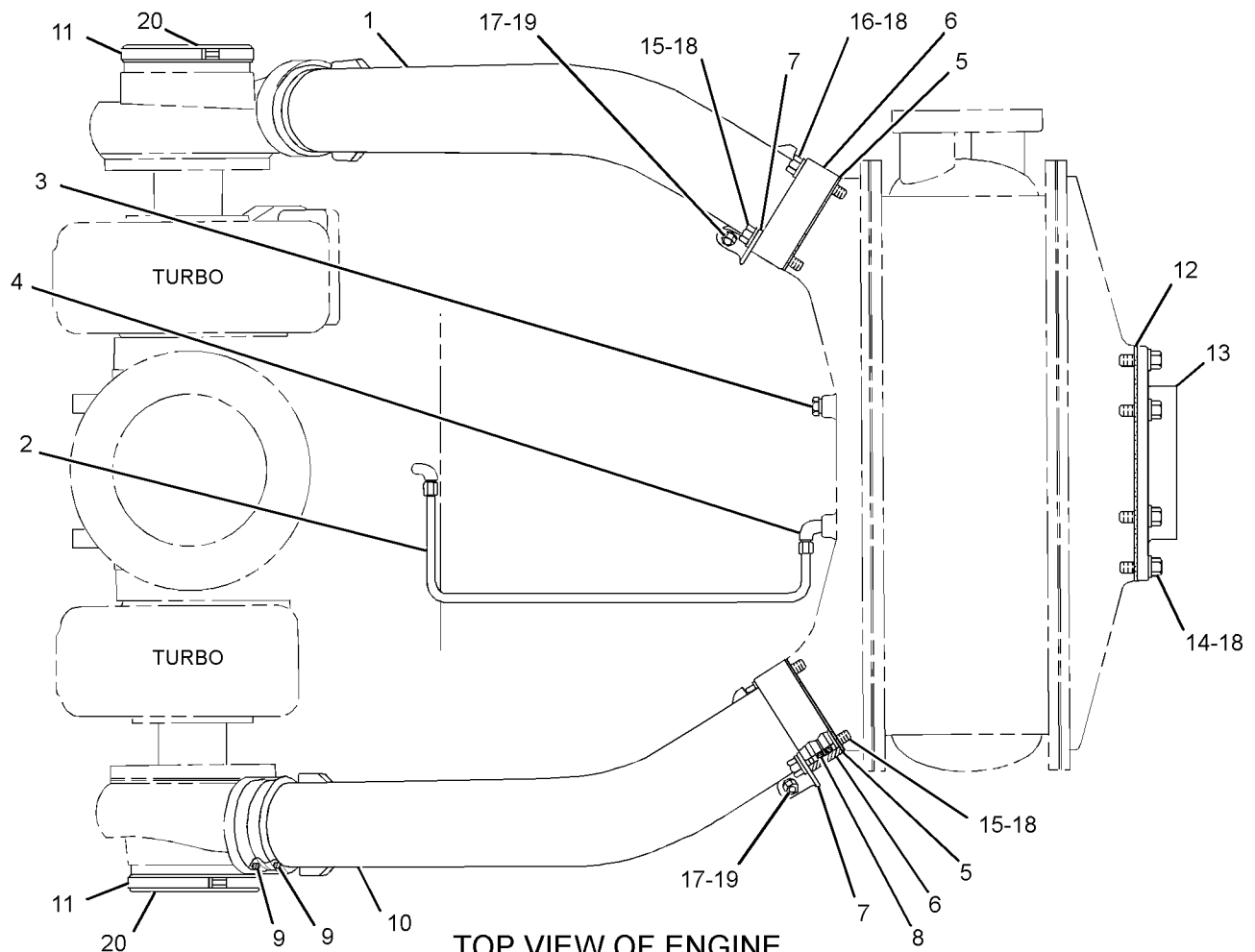
7E-6705 LINES GP-AFTERCOOLER AIR

S/N: ZBA1-UP

SMCS-1063, 1071

i02784997

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-6703	1	PIPE-LH						
	2	1	2W-5708	1	TUBE AS						
	3	1	8T-6765	1	PLUG-PIPE						
	4	1	032-1268	1	ELBOW-FLARED						
	5	1	7L-4302	2	GASKET						
	6	1	2W-7111	2	FLANGE						
	7	1	4W-3851	2	BRACKET						
	8	1	6V-2695	4	SEAL-O-RING						
	9	1	6V-3917	4	SEAL-O-RING						
	10	1	7E-6704	1	PIPE-RH						
	11	1	5P-3860	2	CLAMP-HOSE						
	12	1	4W-9725	1	GASKET						
	13	1	4W-9726	1	FLANGE						
	14	1	7B-3235	6	BOLT (1/2-13X1.375-IN)						
	15	1	1A-5822	2	BOLT (1/2-13X2.75-IN)						
	16	1	9S-1366	6	BOLT (1/2-13X2.5-IN)						
	17	1	1A-2029	2	BOLT (3/8-16X1.125-IN)						
	18	1	5P-8245	14	WASHER-HARD (13.5X25.5X3-MM THK)						
	19	1	9X-6458	2	WASHER-HARD (10.2X22.5X3-MM THK)						
	20	1	5N-4432	2	BOOT						



TOP VIEW OF ENGINE

<END>

GRAPHIC #1

g01391316

AIR INLET AND EXHAUST SYSTEM

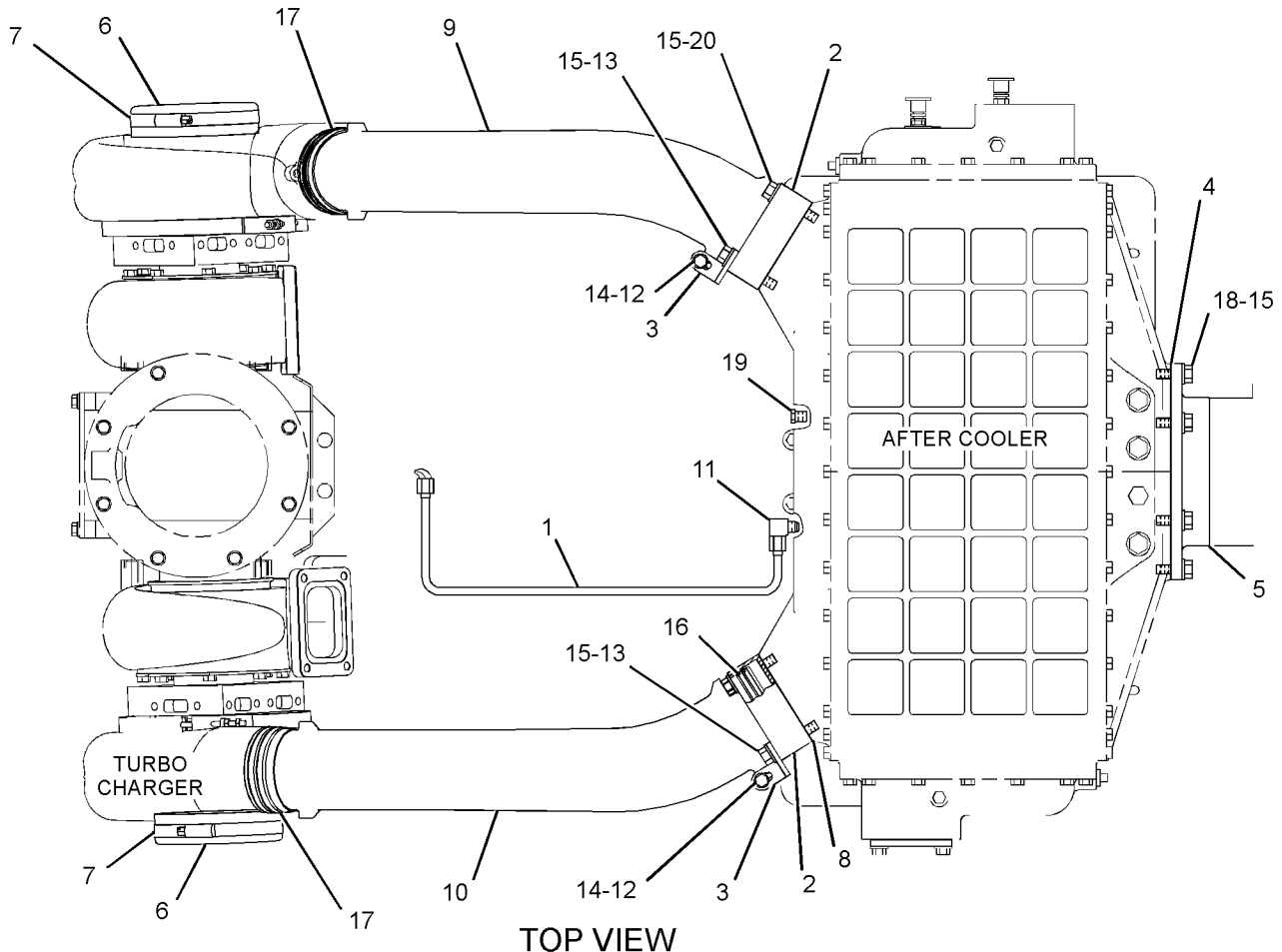
121-7535 LINES GP-AFTERCOOLER AIR

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1063, 1071

i02800998

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-5708	1	TUBE AS						
	2	1	2W-7111	2	FLANGE						
	3	1	4W-3851	2	BRACKET						
	4	1	4W-9725	1	GASKET						
	5	1	4W-9726	1	FLANGE						
	6	1	5N-4432	2	BOOT						
	7	1	5P-3860	2	CLAMP-HOSE						
	8	1	7L-4302	2	GASKET						
	9	1	121-3342	1	PIPE (LH)						
	10	1	168-8506	1	PIPE (RH)						
	11	1	032-1268	1	ELBOW-FLARED						
	12	1	1A-2029	2	BOLT (3/8-16X1.125-IN)						
	13	1	1A-5822	2	BOLT (1/2-13X2.75-IN)						
	14	1	9X-6458	2	WASHER-HARD (10.2X22.5X3-MM THK)						
	15	1	5P-8245	14	WASHER-HARD (13.5X25.5X3-MM THK)						
	16	1	6V-2695	4	SEAL-O-RING						
	17	1	6V-3917	4	SEAL-O-RING						
	18	1	7B-3235	6	BOLT (1/2-13X1.375-IN)						
	19	1	8T-6765	1	PLUG-PIPE						
	20	1	9S-1366	6	BOLT (1/2-13X2.5-IN)						



GRAPHIC #1

<END>

g01239569

AIR INLET AND EXHAUST SYSTEM

122-8347 LINES GP-AFTERCOOLER AIR

S/N: ZBA1-UP

SMCS-1063, 1071

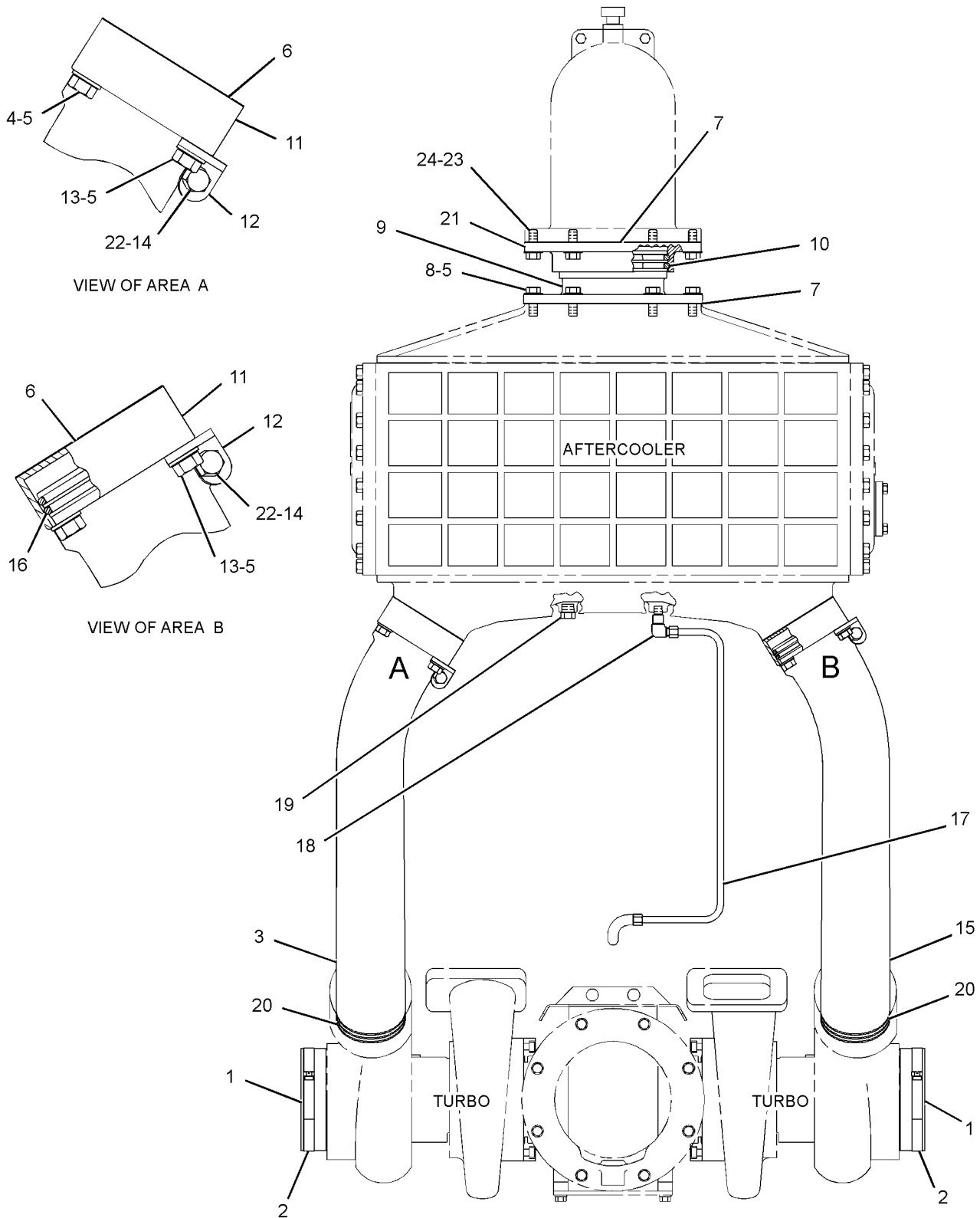
i02800205

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5N-4432	2	BOOT						
	2	1	5P-3860	2	CLAMP-HOSE						
	3	1	121-3342	1	PIPE (LH)						
	4	1	9S-1366	6	BOLT (1/2-13X2.5-IN)						
	5	1	5P-8245	14	WASHER-HARD (13.5X25.5X3-MM THK)						
	6	1	7L-4302	2	GASKET						
	7	1	4W-9725	2	GASKET						
	8	1	7B-3235	6	BOLT (1/2-13X1.375-IN)						
	9	1	114-5275	1	ADAPTER						
	10	1	5P-8862	2	SEAL-O-RING						
	11	1	2W-7111	2	FLANGE						
	12	1	4W-3851	2	BRACKET						
	13	1	1A-5822	2	BOLT (1/2-13X2.75-IN)						
	14	1	9X-6458	2	WASHER-HARD (10.2X22.5X3-MM THK)						
	15	1	168-8506	1	PIPE (RH)						
	16	1	6V-2695	4	SEAL-O-RING						
	17	1	2W-5708	1	TUBE AS						
	18	1	032-1268	1	ELBOW-FLARED						
	19	1	8T-6765	1	PLUG-PIPE						
	20	1	6V-3917	4	SEAL-O-RING						
	21	1	4W-9726	1	FLANGE						
	22	1	1A-2029	2	BOLT (3/8-16X1.125-IN)						
	23	1	5P-8245	6	WASHER-HARD (13.5X25.5X3-MM THK)						
	24	1	7B-3235	6	BOLT (1/2-13X1.375-IN)						

AIR INLET AND EXHAUST SYSTEM

122-8347 LINES GP-AFTERCOOLER AIR (contd.)

i02800205



TOP VIEW OF ENGINE

GRAPHIC #1

<END>

g01401258

AIR INLET AND EXHAUST SYSTEM

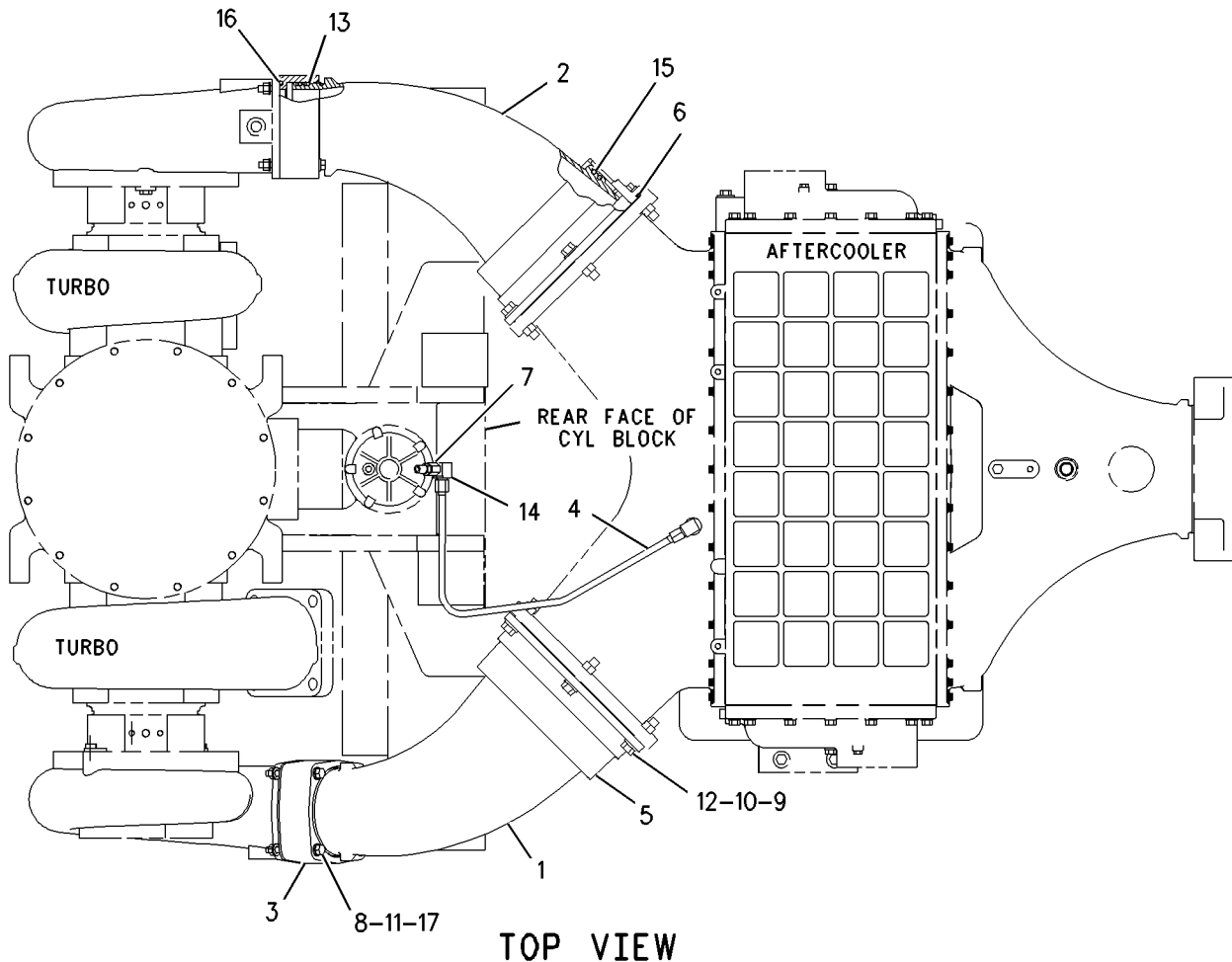
141-9842 LINES GP-AFTERCOOLER AIR

S/N: ZBA1-UP

SMCS-1063, 1071

i02224092

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	128-5428	1	PIPE						
	2	1	128-5429	1	PIPE						
	3	1	133-8472	2	FLANGE						
	4	1	144-4628	1	TUBE AS						
	5	1	153-4056	2	FLANGE						
	6	1	174-3357	2	SEAL-O-RING						
	7	1	032-1267	2	CONNECTOR						
	8	1	0S-1608	8	BOLT (3/8-16X3.75-IN)						
	9	1	1A-1460	12	BOLT (1/2-13X2-IN)						
	10	1	1F-7958	12	NUT-FULL (1/2-13-THD)						
	11	1	5M-2894	16	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	12	1	5P-8245	12	WASHER-HARD (13.5X25.5X3-MM THK)						
	13	1	5S-6760	4	SEAL-O-RING						
	14	1	6K-9194	2	ELBOW-FLARED						
	15	1	6V-3603	4	SEAL-O-RING						
	16	1	6V-4314	2	SEAL-O-RING						
	17	1	9S-8752	8	NUT-FULL (3/8-16-THD)						



GRAPHIC #1

<END>

g00667773

AIR INLET AND EXHAUST SYSTEM

203-7137 LINES GP-AFTERCOOLER AIR-AFTERCOOLER

S/N: ZBA1-UP

FOR USE WITH 2 STAGE, LANDFILL

SMCS-1063, 1071

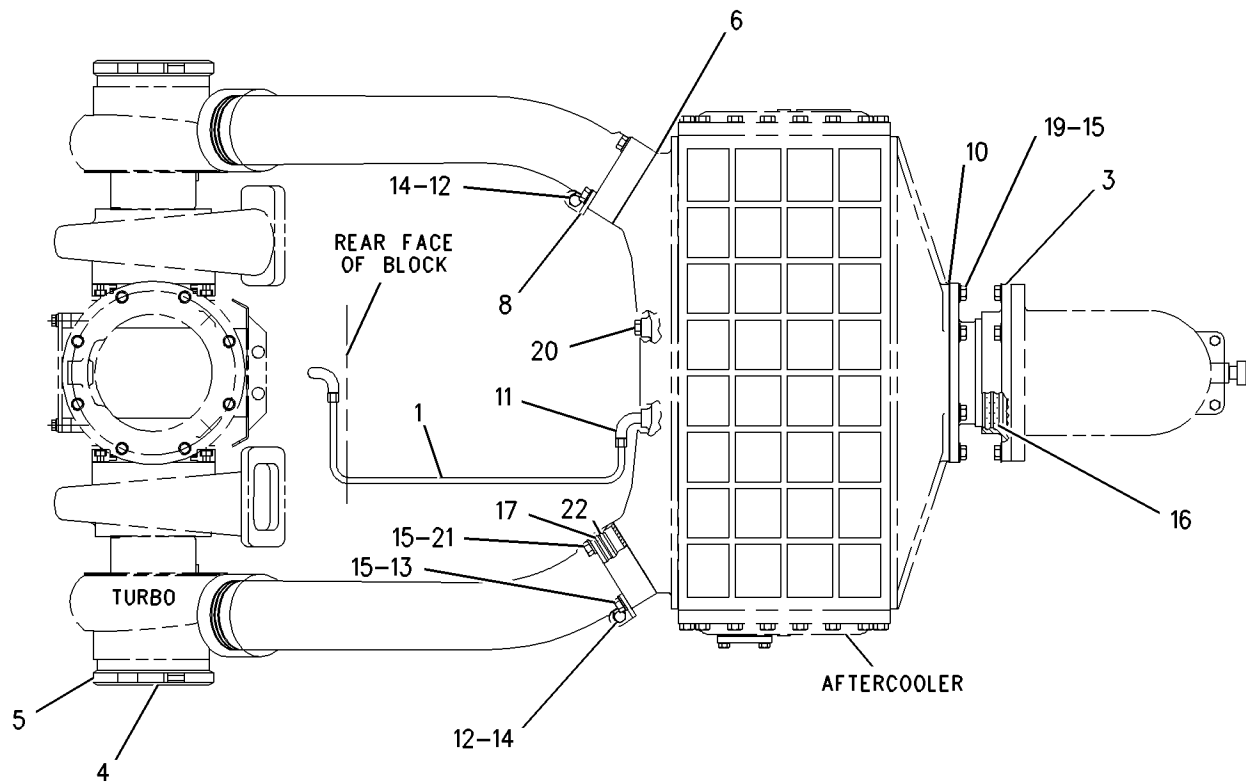
i02801493

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-5708	1	TUBE AS						
	2	1	4W-9725	2	GASKET						
	3	1	4W-9726	1	FLANGE						
	4	1	5N-4432	2	BOOT						
	5	1	5P-3860	2	CLAMP-HOSE						
	6	1	7L-4302	2	GASKET						
	7	1	121-3342	1	PIPE (LH)						
	8	1	156-6261	2	BRACKET						
	9	1	168-8506	1	PIPE (RH)						
	10	1	197-3306	1	ADAPTER						
	11	1	032-1268	1	ELBOW-FLARED						
	12	1	1A-2029	2	BOLT (3/8-16X1.125-IN)						
	13	1	1A-5822	2	BOLT (1/2-13X2.75-IN)						
	14	1	9X-6458	2	WASHER-HARD (10.2X22.5X3-MM THK)						
	15	1	5P-8245	20	WASHER-HARD (13.5X25.5X3-MM THK)						
	16	1	5P-8862	2	SEAL-O-RING						
	17	1	6V-2695	4	SEAL-O-RING						
	18	1	6V-3917	4	SEAL-O-RING						
	19	1	7B-3235	12	BOLT (1/2-13X1.375-IN)						
	20	1	8T-6765	1	PLUG-PIPE						
	21	1	9S-1366	6	BOLT (1/2-13X2.5-IN)						
	22	1	2W-7111	2	FLANGE						

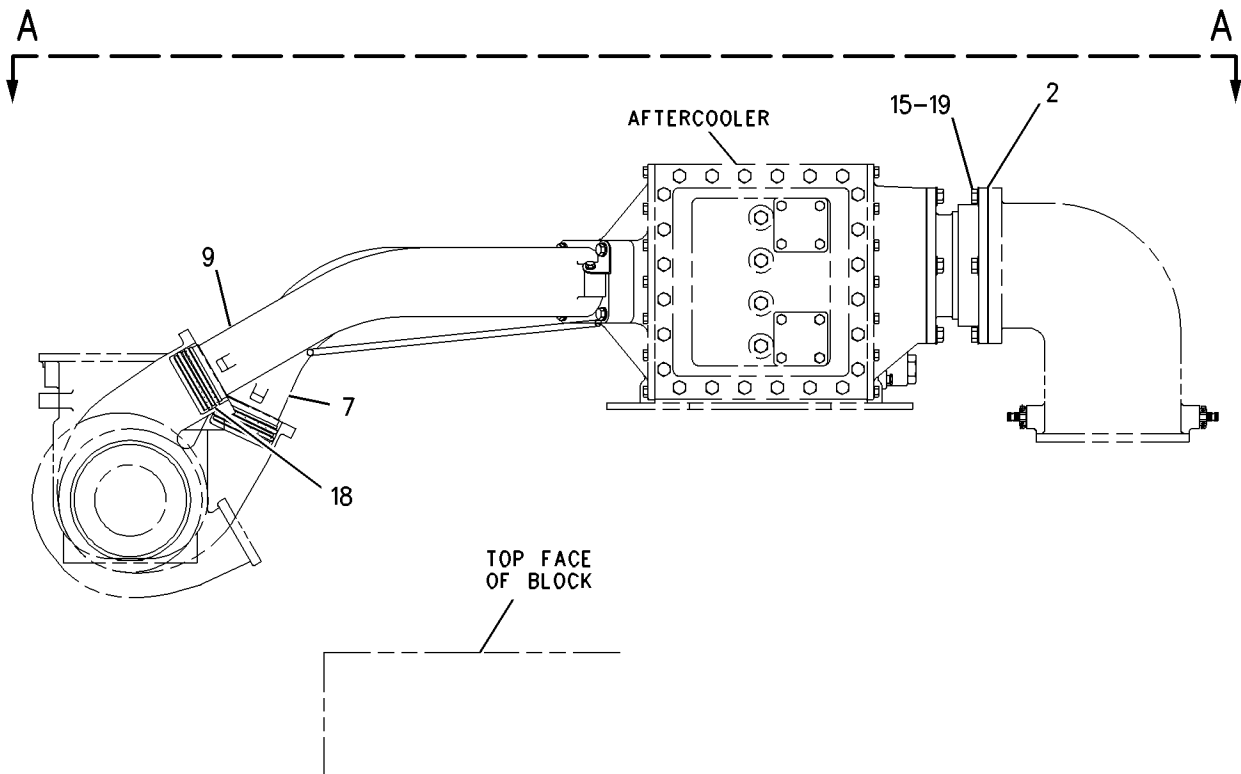
AIR INLET AND EXHAUST SYSTEM

203-7137 LINES GP-AFTERCOOLER AIR (contd.)

i02801493



VIEW A-A



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g00810664

AIR INLET AND EXHAUST SYSTEM

4P-8350 LINES GP-AIR-INLET MANIFOLD

S/N: ZBA1-UP

SMCS-1071

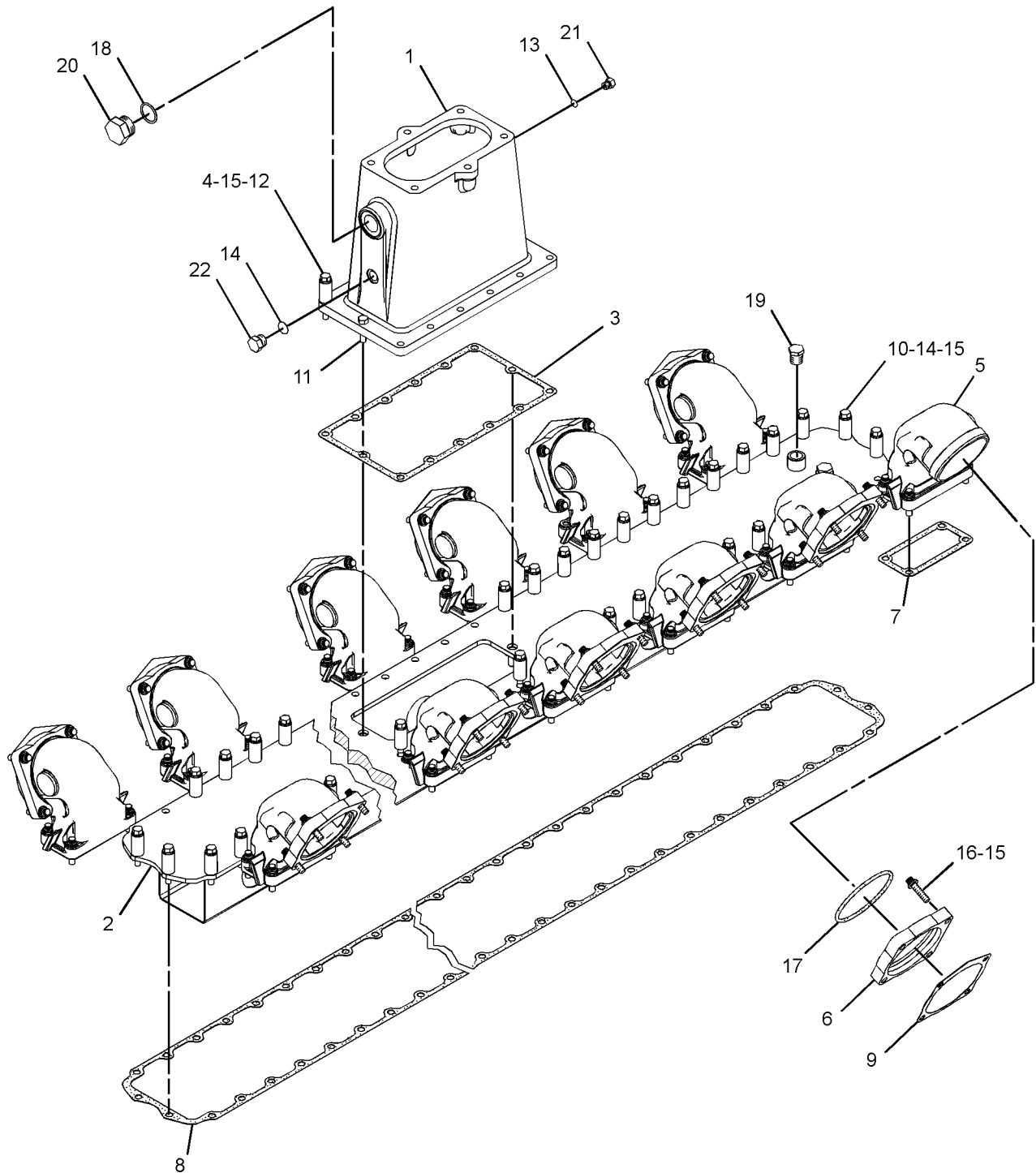
i02402143

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4P-8351	1	ADAPTER						
	2	1	4W-9722	1	PLATE AS						
		1	5M-9679	2	BOSS						
	3	1	4W-9723	1	GASKET						
	4	1	6W-6672	60	SPACER (10.5X20X38-MM THK)						
	5	1	7N-5079	16	ELBOW						
	6	1	7N-5085	16	FLANGE						
	7	1	7N-5089	16	GASKET						
	8	1	8N-0392	1	GASKET						
	9	1	153-8455	16	GASKET-MANIFOLD						
	10	1	0L-1143	48	BOLT (3/8-16X2.5-IN)						
	11	1	0S-1591	2	BOLT (3/8-16X1.5-IN)						
	12	1	0S-1619	12	BOLT (3/8-16X3-IN)						
	13	1	3J-7354	1	SEAL-O-RING						
	14	1	3K-0360	1	SEAL-O-RING						
	15	1	5M-2894	188	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	16	1	5P-0076	128	BOLT-12 POINT HEAD (3/8-16X1.5-IN)						
	17	1	6V-5504	16	SEAL-O-RING						
	18	1	7M-8485	1	SEAL-O-RING						
	19	1	7W-6492	2	PLUG-PIPE						
	20	1	9S-4181	1	PLUG-O-RING						
	21	1	9S-4182	1	PLUG-O-RING						
	22	1	9S-4185	1	PLUG-O-RING						

AIR INLET AND EXHAUST SYSTEM

4P-8350 LINES GP-AIR (contd.)

i02402143



GRAPHIC #1

<END>

g01261158

AIR INLET AND EXHAUST SYSTEM

5N-8354 LINES GP-AIR-PRELUBRICATION PUMP

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1071

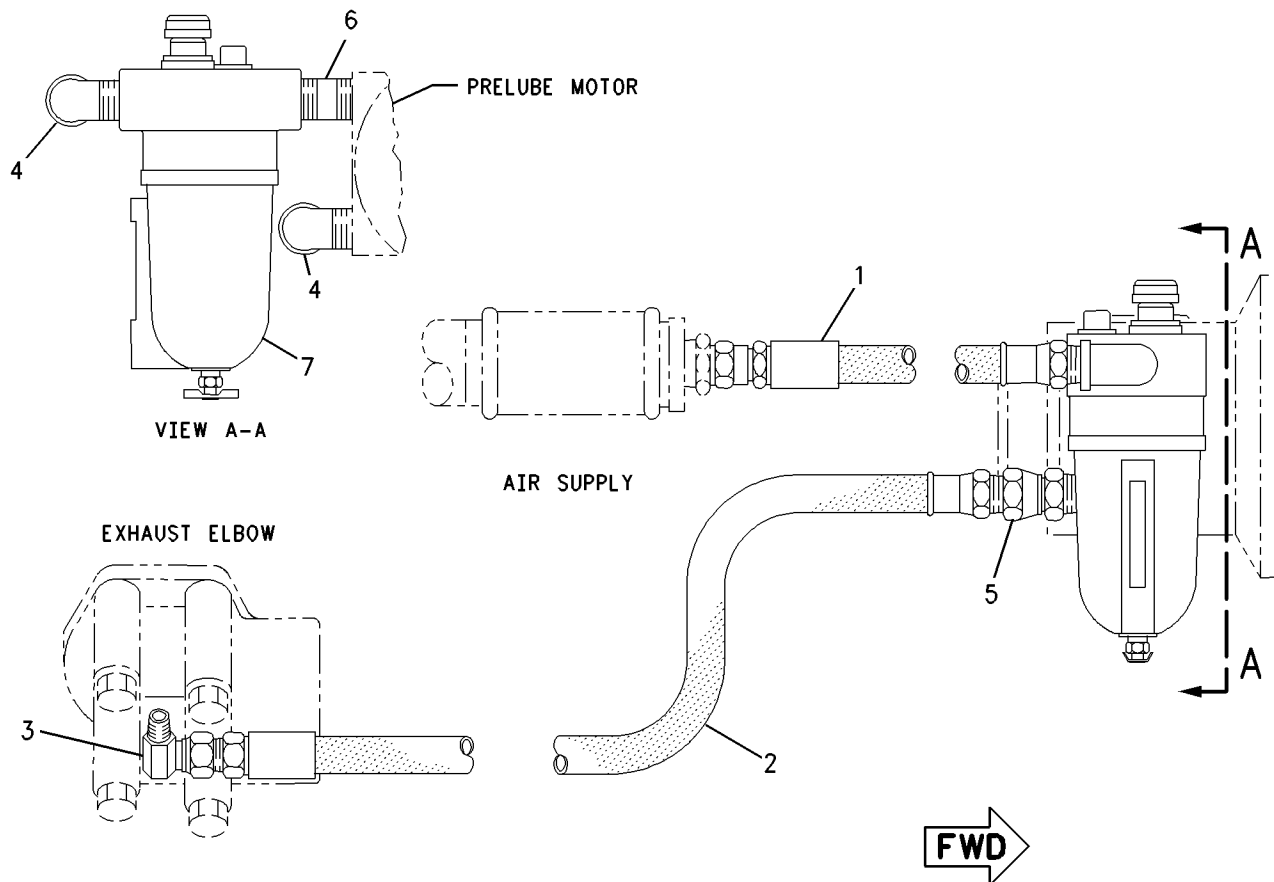
i01758934

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
I	1	1	5N-8353	1	HOSE AS						
I	2	1	5N-8352	1	HOSE AS						
	3	1	2H-3940	1	ELBOW						
	4	1	002-6453	2	ELBOW						
C	5	1	2H-9091	1	CONNECTOR-PIPE						
	6	1	3B-7272	1	NIPPLE-PIPE						
CY	7	1	7W-0522	1	LUBRICATOR GP-AIR MOTOR						788

C- CHANGE FROM PREVIOUS TYPE

I- REFER TO HYDRAULIC INFORMATION SYSTEM

Y- SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00899967

AIR INLET AND EXHAUST SYSTEM

6I-0670 LINES GP-AIR

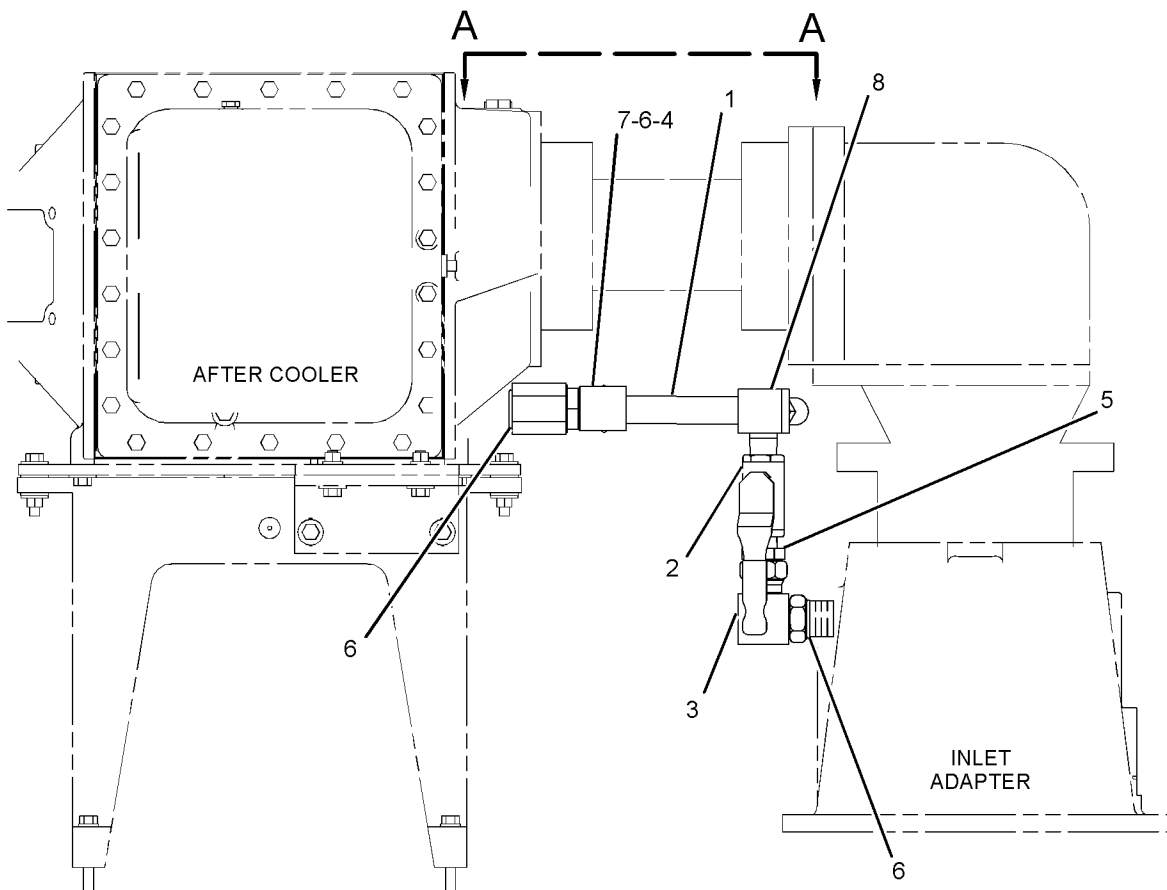
S/N: ZBA1-UP

FOR USE WITH LOW EMISSION LEAN BURN GENERATOR SET & INDUSTRIAL ENGINE. CANNOT BE
USED WITH COSA LOW PRESSURE GAS GENERATOR SET
AN ATTACHMENT

SMCS-1071

i02358711

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-0671	1	TUBE AS						
	2	1	8C-1358	1	VALVE-BALL						
	3	1	8K-6898	1	FITTING AS						
	4	1	030-7951	1	ELBOW-FLARED						
	5	1	030-8307	1	CONNECTOR						
	6	1	7M-8485	3	SEAL-O-RING						
	7	1	8C-3051	1	ADAPTER						
	8	1	9L-4007	1	ELBOW-FLARED						



FRONT VIEW

GRAPHIC #1

<END>

g01194106

AIR INLET AND EXHAUST SYSTEM

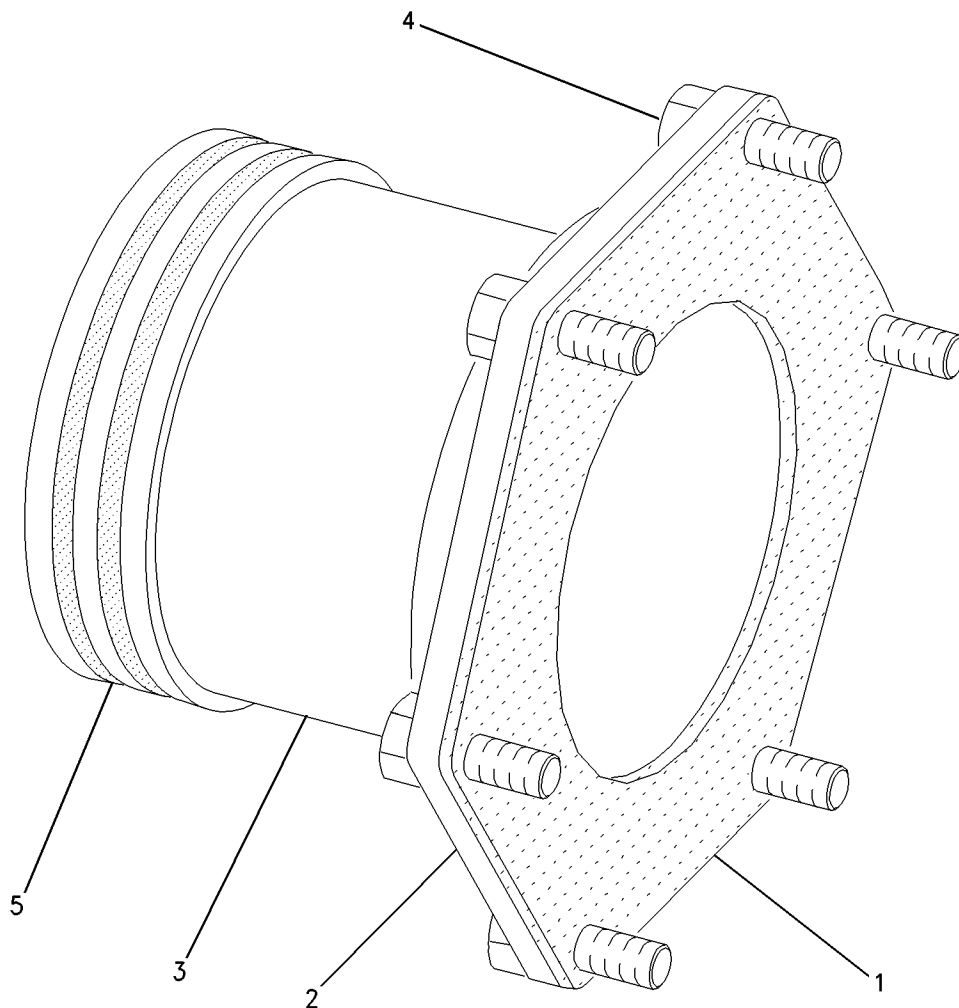
9Y-1223 LINES GP-AIR-CARBURETOR INLET

S/N: ZBA1-UP
ALSO AN ATTACHMENT

SMCS-1071

i02220741

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4W-9725	1	GASKET						
	2	1	4W-9726	1	FLANGE						
	3	1	7C-2653	1	COUPLING						
	4	1	0S-1585	6	BOLT (1/2-13X1.5-IN)						
		1	5P-8245	6	WASHER-HARD (13.5X25.5X3-MM THK)						
	5	1	5P-8862	4	SEAL-O-RING						



GRAPHIC #1

<END>

g00740965

AIR INLET AND EXHAUST SYSTEM

123-4848 LINES GP-AIR-INLET MANIFOLD

S/N: ZBA1-UP

SMCS-1071

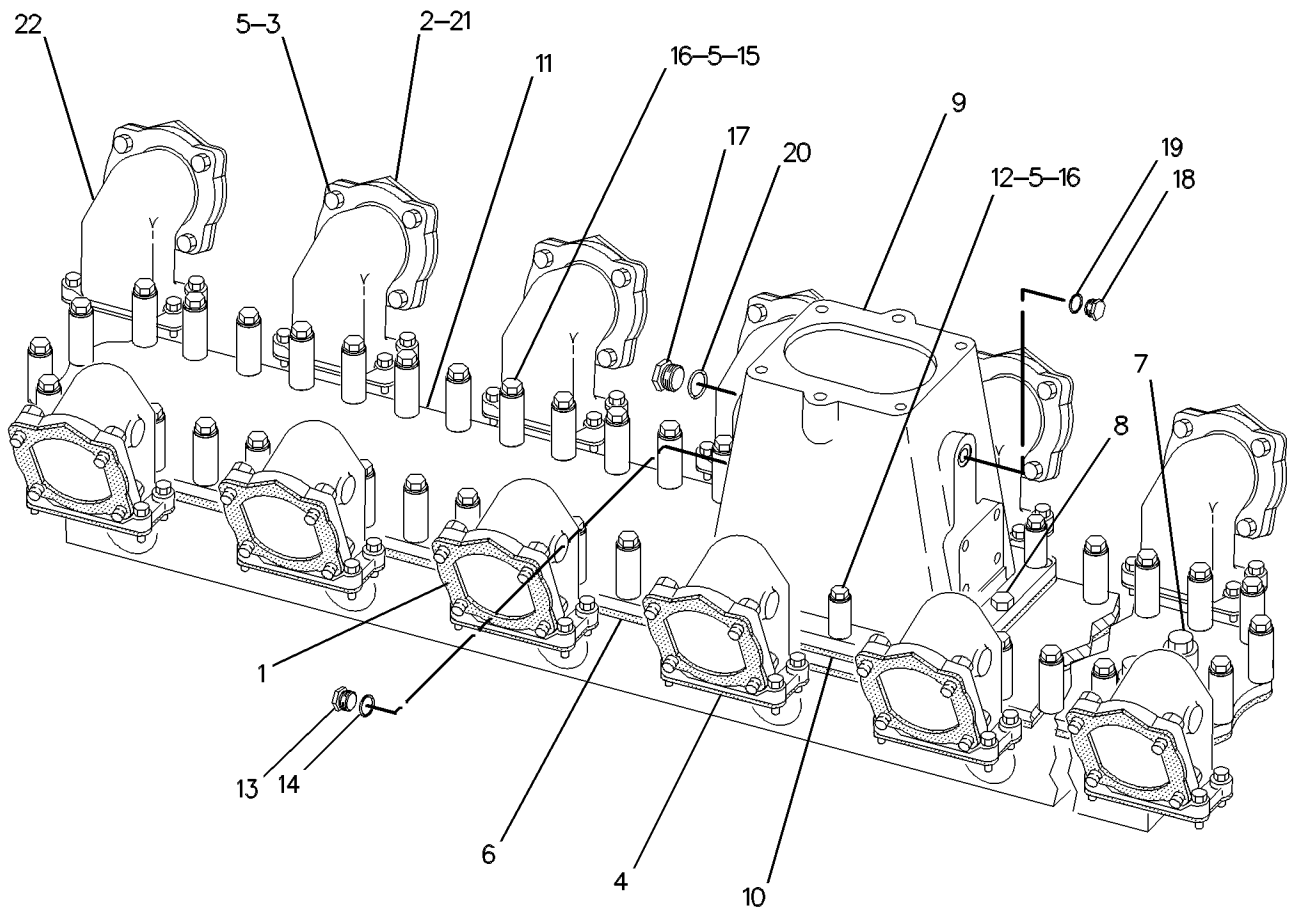
i01132048

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	153-8455	16	GASKET-MANIFOLD	
	2	1	7N-5085	16	FLANGE	
	3	1	5P-0076	128	BOLT-12 POINT HEAD (3/8-16X1.5-IN)	
	4	1	7N-5089	16	GASKET	
	5	1	5M-2894	188	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	6	1	8N-0392	1	GASKET	
	7	1	7W-6492	2	PLUG-PIPE	
	8	1	0S-1591	2	BOLT (3/8-16X1.5-IN)	
	9	1	4P-8351	1	ADAPTER	
	10	1	4W-9723	1	GASKET	
	11	1	4W-9722	1	PLATE AS	
		1	5M-9679	2	BOSS	
	12	1	0S-1619	12	BOLT (3/8-16X3-IN)	
	13	1	9S-4185	1	PLUG-O-RING	
	14	1	3K-0360	1	SEAL-O-RING	
	15	1	0L-1143	48	BOLT (3/8-16X2.5-IN)	
	16	1	6W-6672	56	SPACER (10.5X20X38-MM THK)	
	17	1	9S-4181	1	PLUG-O-RING	
	18	1	9S-4182	1	PLUG-O-RING	
	19	1	3J-7354	1	SEAL-O-RING	
	20	1	7M-8485	1	SEAL-O-RING	
	21	1	6V-5101	16	SEAL-O-RING	
	22	1	134-3804	16	ELBOW	

AIR INLET AND EXHAUST SYSTEM

123-4848 LINES GP-AIR (contd.)

i01132048



GRAPHIC #1

<END>

g00598739

AIR INLET AND EXHAUST SYSTEM

165-4089 LINES GP-AIR-TURBOCHARGER INLET

S/N: ZBA1-UP

AN ATTACHMENT

SMCS-1071

i01346518

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-3860	4	CLAMP-HOSE						
	2	1	9S-2592	2	HOSE						
	3	1	165-3819	1	TUBE AS (RH)						
	4	1	165-3820	2	TUBE AS						
	5	1	170-0590	1	TUBE AS (LH)						
C	6	1	183-2312	1	BRACKET AS						
C	7	1	183-2313	2	BRACKET						
C	8	1	4L-9337	8	BOLT (3/8-16X1.5-IN)						
C	9	1	5P-1075	16	WASHER-HARD (10.2X22.5X3-MM THK)						
C	10	1	5P-1076	4	WASHER-HARD (13.5X30X4-MM THK)						
CM	11	1	6V-4248	4	BOLT (M10X1.5X25-MM)						
	12	1	6V-5553	2	SEAL-O-RING						
	13	1	6V-5839	8	WASHER (11X21X2.5-MM THK)						
CM	14	1	6V-5842	4	BOLT (M10X1.5X40-MM)						
C	15	1	6V-8188	4	NUT (1/2-13-THD)						
C	16	1	6V-8801	8	NUT (3/8-16 THD)						
C	17	1	7X-0325	4	BOLT (1/2-13X2.5-IN)						
C	18	1	8T-6760	1	PLUG-PIPE						

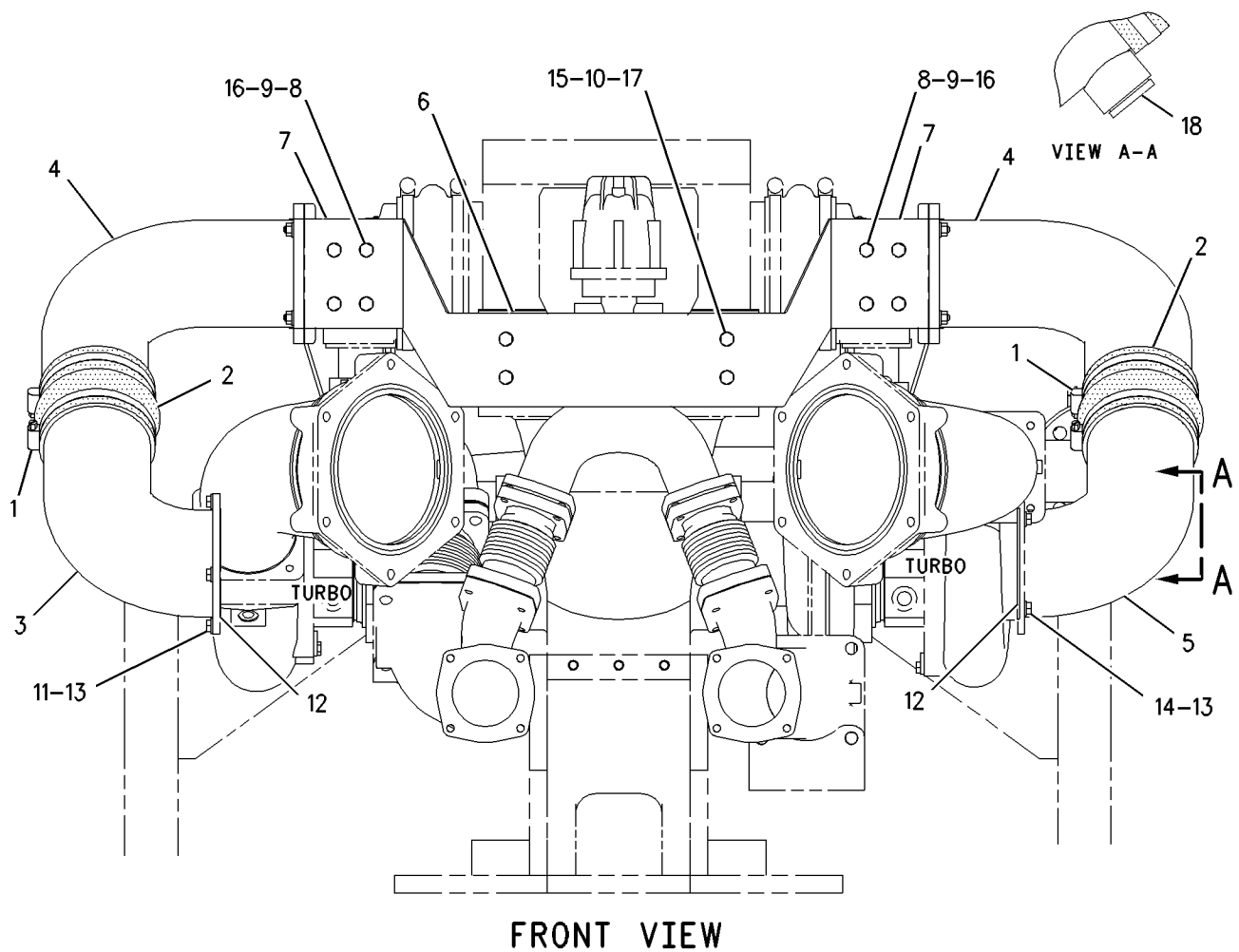
C- CHANGE FROM PREVIOUS TYPE

M- METRIC PART

AIR INLET AND EXHAUST SYSTEM

165-4089 LINES GP-AIR (contd.)

i01346518



GRAPHIC #1

<END>

g00713090

AIR INLET AND EXHAUST SYSTEM

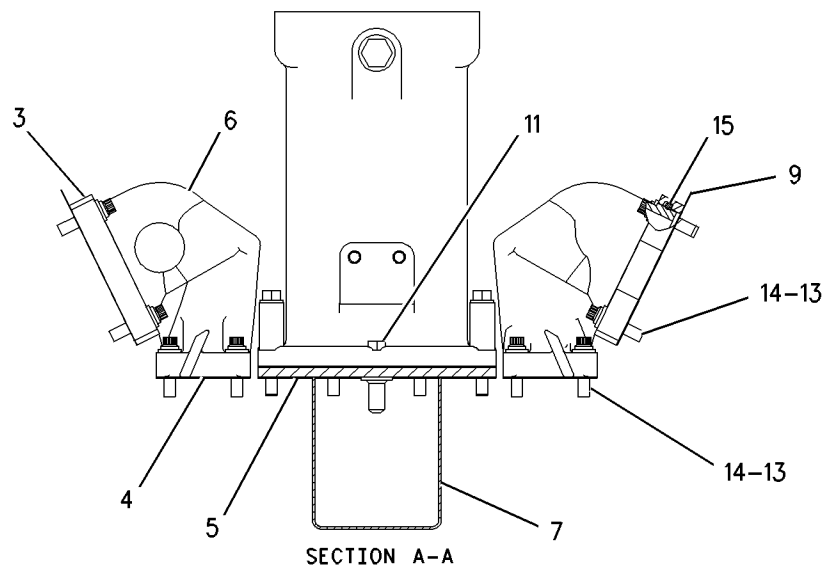
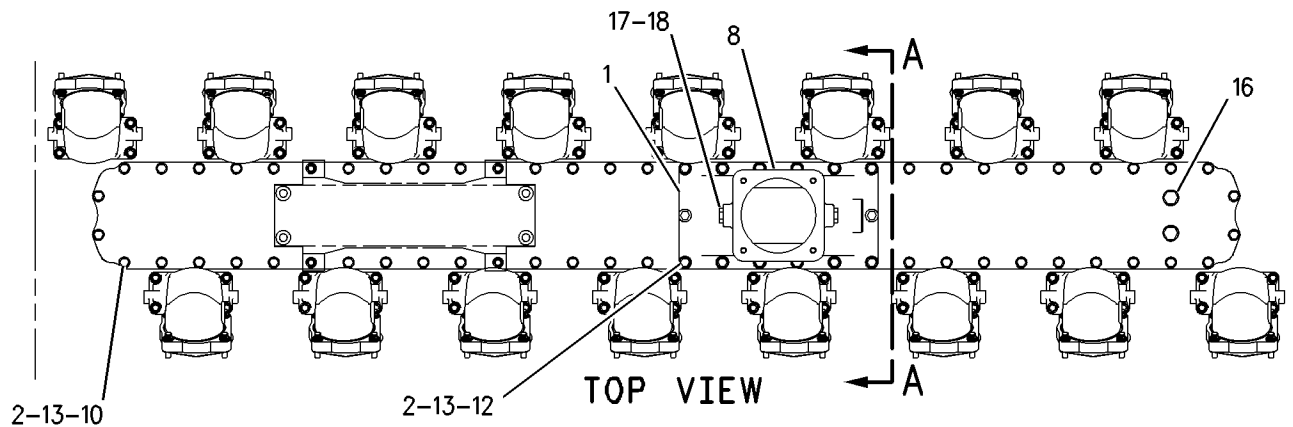
201-0863 LINES GP-AIR-INLET MANIFOLD

S/N: ZBA1-UP

SMCS-1071

i01623970

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4W-9723	1	GASKET						
	2	1	6W-6672	60	SPACER (10.5X20X38-MM THK)						
	3	1	7N-5085	16	FLANGE						
	4	1	7N-5089	16	GASKET						
	5	1	8N-0392	1	GASKET						
	6	1	134-3804	16	ELBOW						
	7	1	4W-9722	1	PLATE AS						
		1	5M-9679	2	BOSS						
	8	1	151-4941	1	ADAPTER						
	9	1	153-8455	16	GASKET-MANIFOLD						
	10	1	0L-1143	48	BOLT (3/8-16X2.5-IN)						
	11	1	0S-1591	2	BOLT (3/8-16X1.5-IN)						
	12	1	0S-1619	12	BOLT (3/8-16X3-IN)						
	13	1	5M-2894	188	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	14	1	5P-0076	128	BOLT-12 POINT HEAD (3/8-16X1.5-IN)						
	15	1	6V-5101	16	SEAL-O-RING						
	16	1	7W-6492	2	PLUG-PIPE						
	17	1	8L-2786	2	SEAL-O-RING						
	18	1	9S-4185	2	PLUG-O-RING						



GRAPHIC #1

<END>

g00783017

AIR INLET AND EXHAUST SYSTEM

205 - 7199 LINES GP-AIR-INLET MANIFOLD

S/N: ZBA1-UP

SMCS-1071

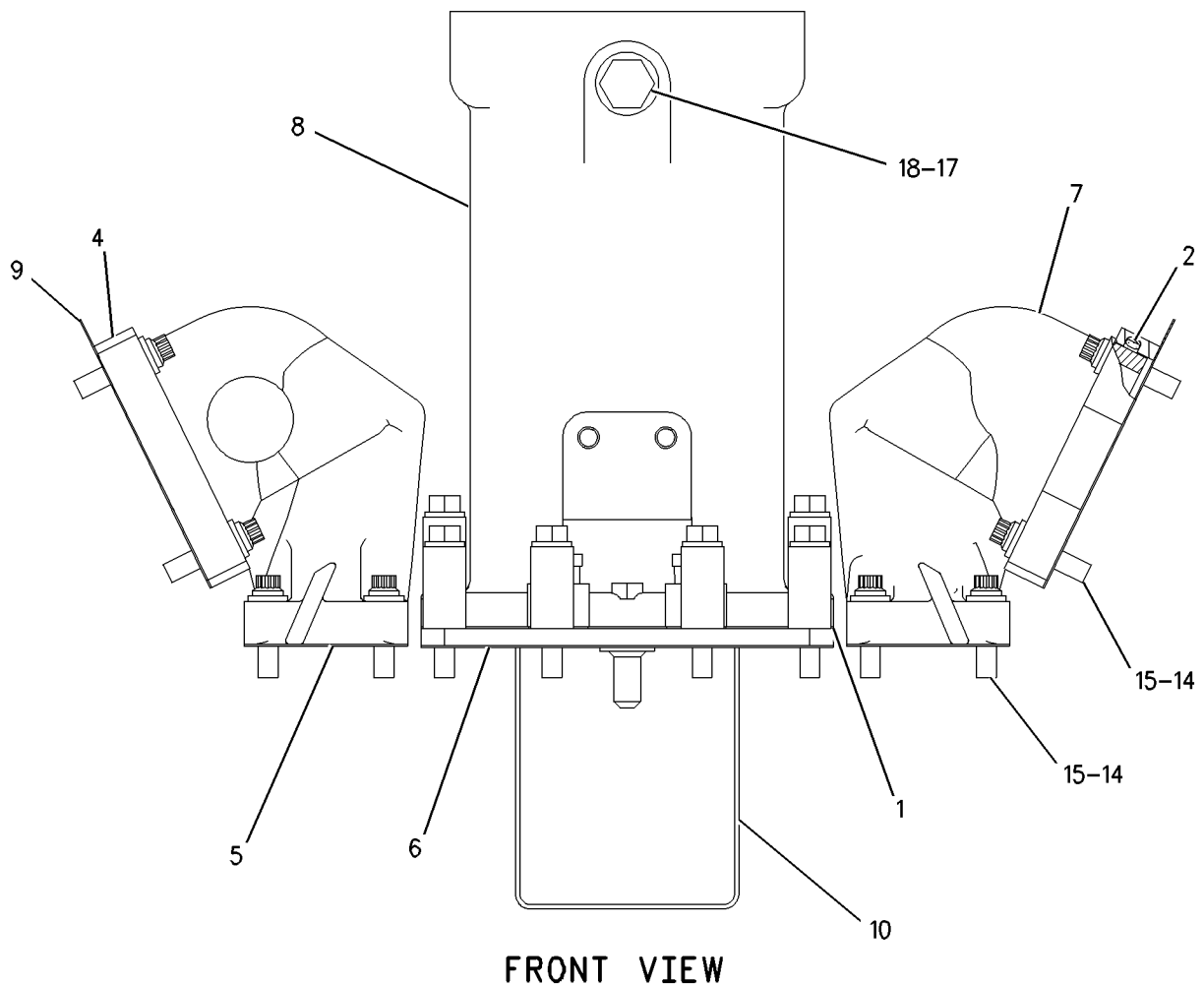
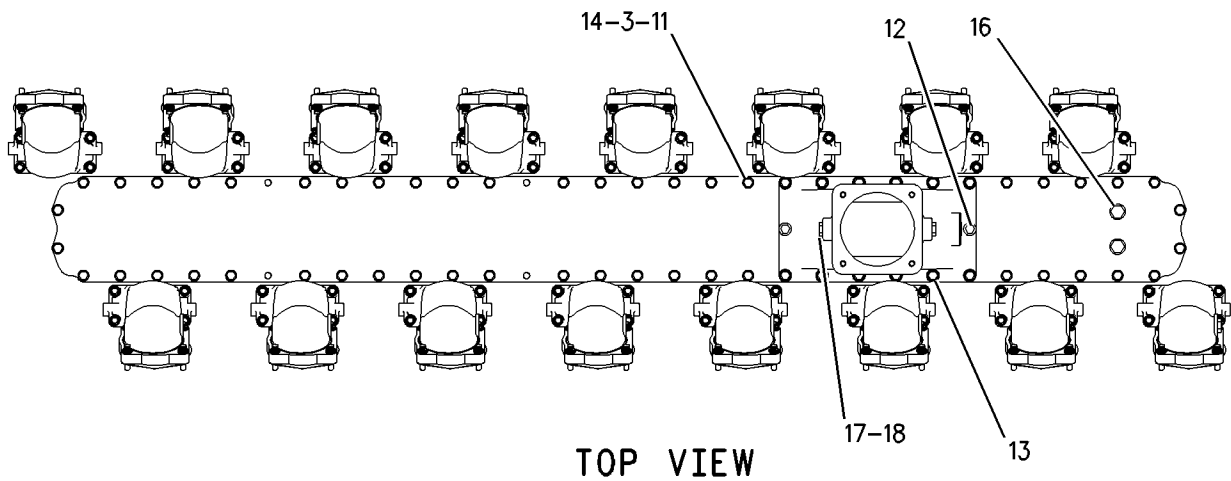
i01764086

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4W-9723	1	GASKET						
	2	1	6V-5101	16	SEAL-O-RING						
	3	1	6W-6672	60	SPACER (10.5X20X38-MM THK)						
	4	1	7N-5085	16	FLANGE						
	5	1	7N-5089	16	GASKET						
	6	1	8N-0392	1	GASKET						
	7	1	134-3804	16	ELBOW						
	8	1	151-4941	1	ADAPTER						
	9	1	153-8455	16	GASKET-MANIFOLD						
	10	1	191-0659	1	PLATE AS						
		1	5M-9679	2	BOSS						
	11	1	0L-1143	48	BOLT (3/8-16X2.5-IN)						
	12	1	0S-1591	2	BOLT (3/8-16X1.5-IN)						
	13	1	0S-1619	12	BOLT (3/8-16X3-IN)						
	14	1	5M-2894	188	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	15	1	5P-0076	128	BOLT-12 POINT HEAD (3/8-16X1.5-IN)						
	16	1	7W-6492	2	PLUG-PIPE						
	17	1	8L-2786	2	SEAL-O-RING						
	18	1	9S-4185	2	PLUG-O-RING						

AIR INLET AND EXHAUST SYSTEM

205-7199 LINES GP-AIR (contd.)

i01764086



GRAPHIC #1

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g00904022

AIR INLET AND EXHAUST SYSTEM

205 - 7263 LINES GP - AIR-THROTTLE TO AFTERCOOLER

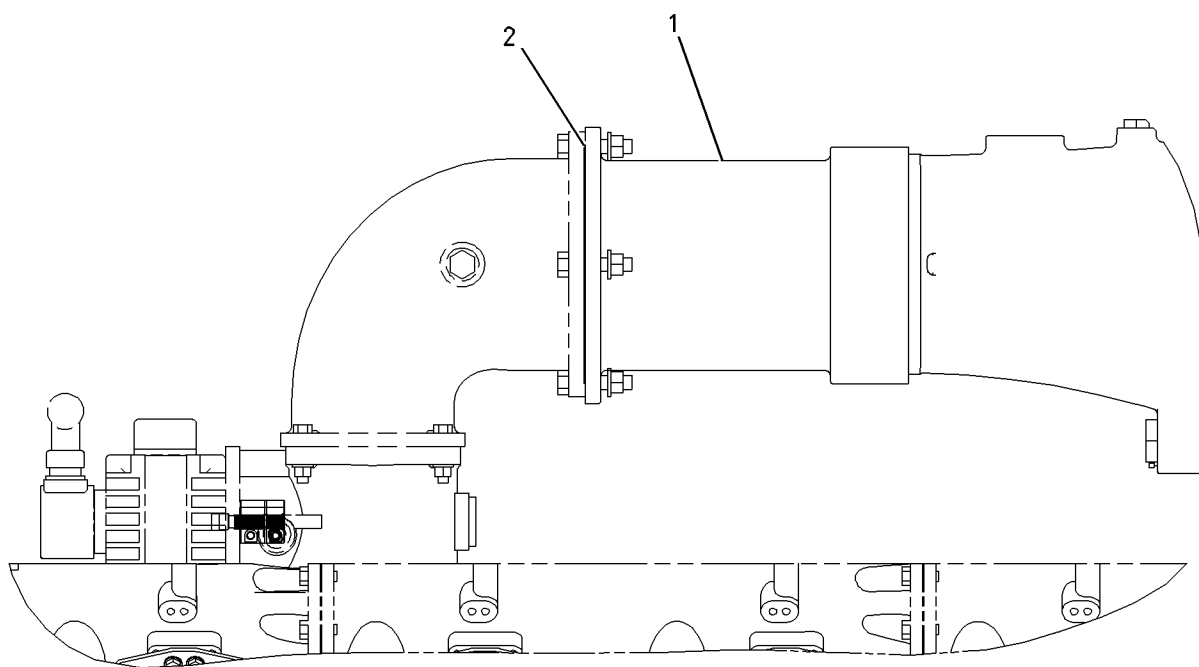
S/N: ZBA1-UP

FOR USE WITH 2 STAGE, LANDFILL

SMCS-1071

i01563556

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	205-7401	1	ADAPTER						
	2	1	177-6911	1	SEAL-O-RING						



LEFT SIDE VIEW

GRAPHIC #1

<END>

g00846101

AIR INLET AND EXHAUST SYSTEM

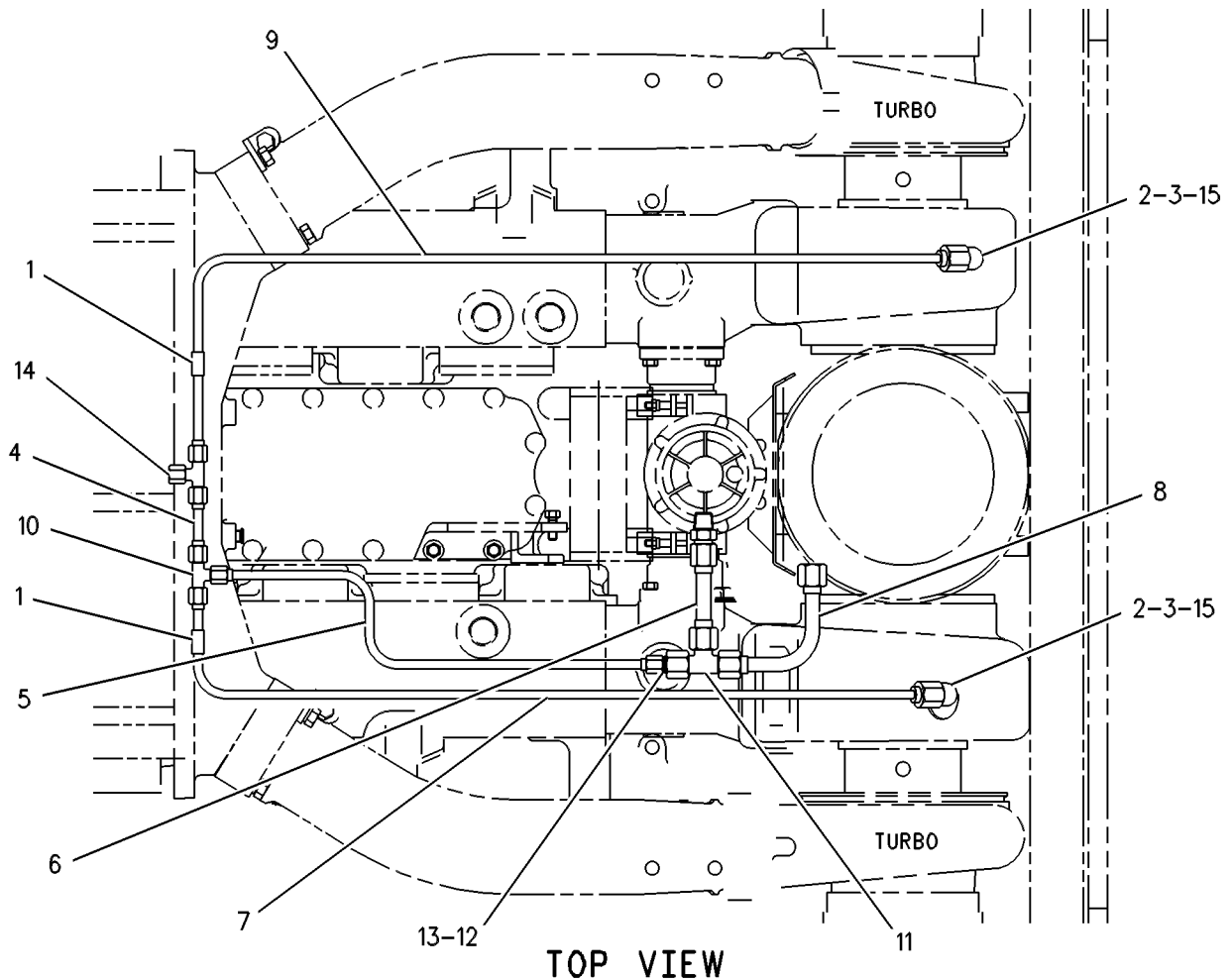
116-9850 LINES GP-TURBOCHARGER VENT

S/N: ZBA1-UP

SMCS-1052

i02220758

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7H-7055	2	CLIP						
	2	1	2N-8037	2	ELBOW						
	3	1	011-5224	2	BUSHING-REDUCING						
	4	1	116-2390	1	TUBE AS						
	5	1	116-2391	1	TUBE AS						
	6	1	116-2392	1	TUBE AS						
	7	1	116-2393	1	TUBE AS						
	8	1	116-2394	1	TUBE AS						
	9	1	116-2395	1	TUBE AS						
	10	1	4S-3652	2	TEE-UNION						
	11	1	003-8581	1	TEE-UNION						
	12	1	5H-0275	1	NUT-FITTING (7/8-14-THD)						
	13	1	030-8145	1	REDUCER-FLARED						
	14	1	8S-4950	1	CAP						
	15	1	6B-1628	2	BUSHING-REDUCING						



TOP VIEW

GRAPHIC #1

<END>

g00253160

AIR INLET AND EXHAUST SYSTEM

4W-5772 MANIFOLD GP - EXHAUST

S/N: ZBA1-UP

WATER COOLED

SMCS-1059

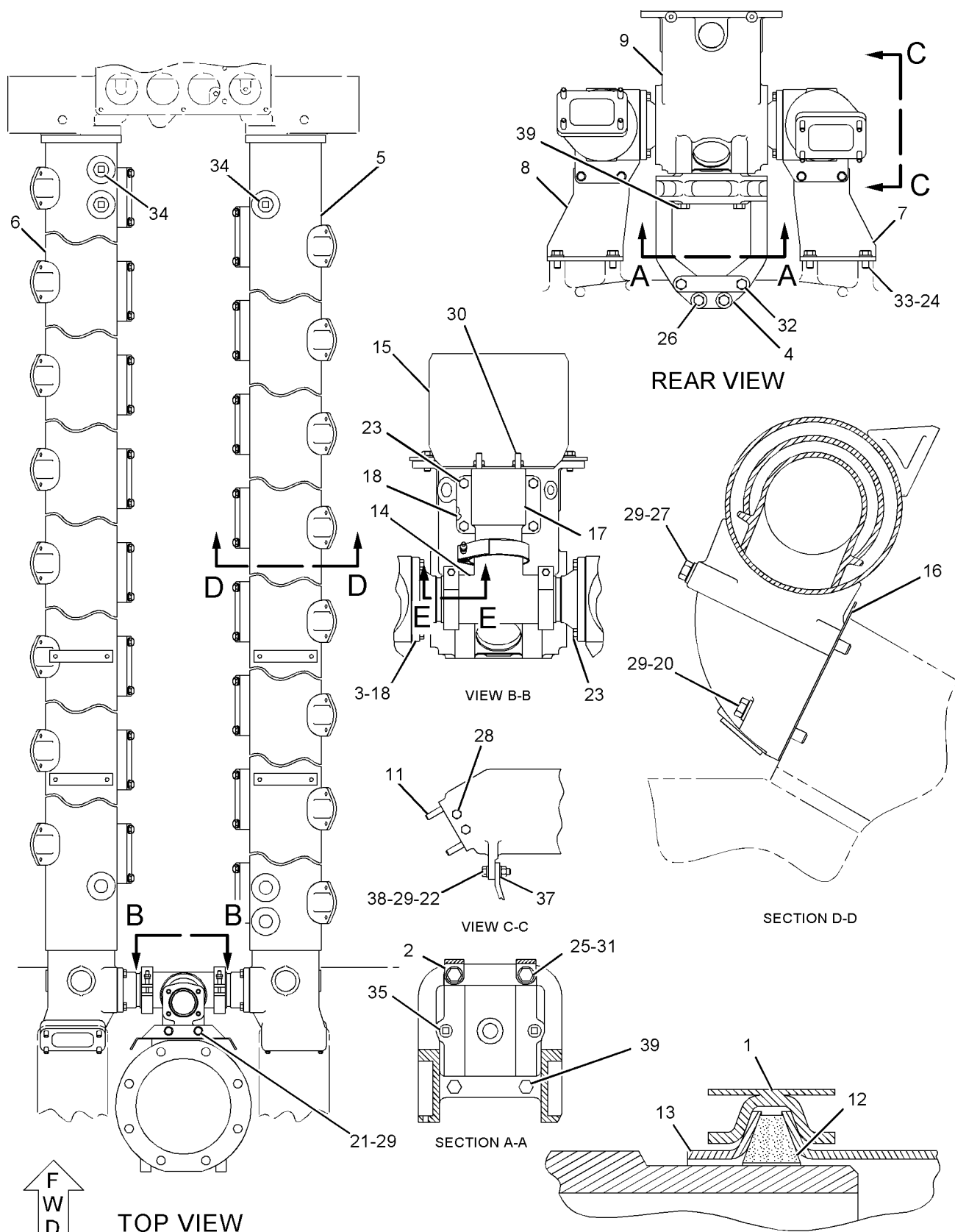
i02781681

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	1W-2430	3	CLAMP-V-BAND	
	2	1	1W-2860	2	BRACKET	
	3	1	2W-5713	2	ADAPTER	
	4	1	2W-5958	1	SUPPORT	
	5	1	4P-1457	1	MANIFOLD AS (WATERCOOLED) (RH)	
	6	1	4P-1458	1	MANIFOLD AS (WATERCOOLED) (LH)	
	7	1	4W-7273	1	BRACKET (RH)	
	8	1	4W-7274	1	BRACKET (LH)	
	9	1	4W-7283	1	ELBOW AS-EXHAUST	
		1	4F-5695	3	PLUG-CUP (SMALL)	
		1	0S-0519	2	PLUG-CUP (LARGE)	
	11	1	6L-8562	8	STUD-TAPERLOCK (3/8-16X1.77-IN)	
	12	1	7C-3920	3	SEAL-EXHAUST	
	13	1	7C-3921	3	RING-EXHAUST SEAL	
	14	1	7C-6239	1	TEE AS-EXHAUST	
	15	1	7E-2900	1	PLATE	
	16	1	7E-4127	16	GASKET	
	17	1	9Y-1568	1	HOUSING (WASTE-GATE)	
	18	1	12I-5736	3	GASKET (TURBOCHARGER)	
	20	1	0L-2070	32	BOLT (3/8-16X2.25-IN)	
	21	1	0S-0509	2	BOLT (3/8-16X0.75-IN)	
	22	1	0S-1591	4	BOLT (3/8-16X1.5-IN)	
	23	1	0S-1594	12	BOLT (3/8-16X1-IN)	
	24	1	0S-1595	4	BOLT (1/2-13X1.25-IN)	
	25	1	0V-0375	2	BOLT (1/2-13X3.25-IN)	
	26	1	1A-5822	2	BOLT (1/2-13X2.75-IN)	
	27	1	1D-4706	32	BOLT (3/8-16X6-IN)	
	28	1	3E-7428	4	PLUG-PIPE	
	29	1	5M-2894	70	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	30	1	5P-2603	4	STUD-TAPERLOCK	
	31	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)	
	32	1	6M-9613	2	BOLT (1/2-13X9-IN)	
	33	1	7D-1649	4	WASHER-HARD (13.5X32X5-MM THK)	
	34	1	8T-6761	3	PLUG-PIPE	
	35	1	8T-6762	2	PLUG-PIPE	
	37	1	9L-9132	4	WASHER (10.2X25.5X2.5-MM THK)	
	38	1	9S-8752	4	NUT-FULL (3/8-16-THD)	
	39	1	9X-8874	2	BOLT (1/2-13X3-IN)	

AIR INLET AND EXHAUST SYSTEM

4W-5772 MANIFOLD GP-EXHAUST (contd.)

i02781681



GRAPHIC #1

<END>

g01123282

AIR INLET AND EXHAUST SYSTEM

108-9652 MANIFOLD GP-EXHAUST

S/N: ZBA1-UP

SMCS-1059

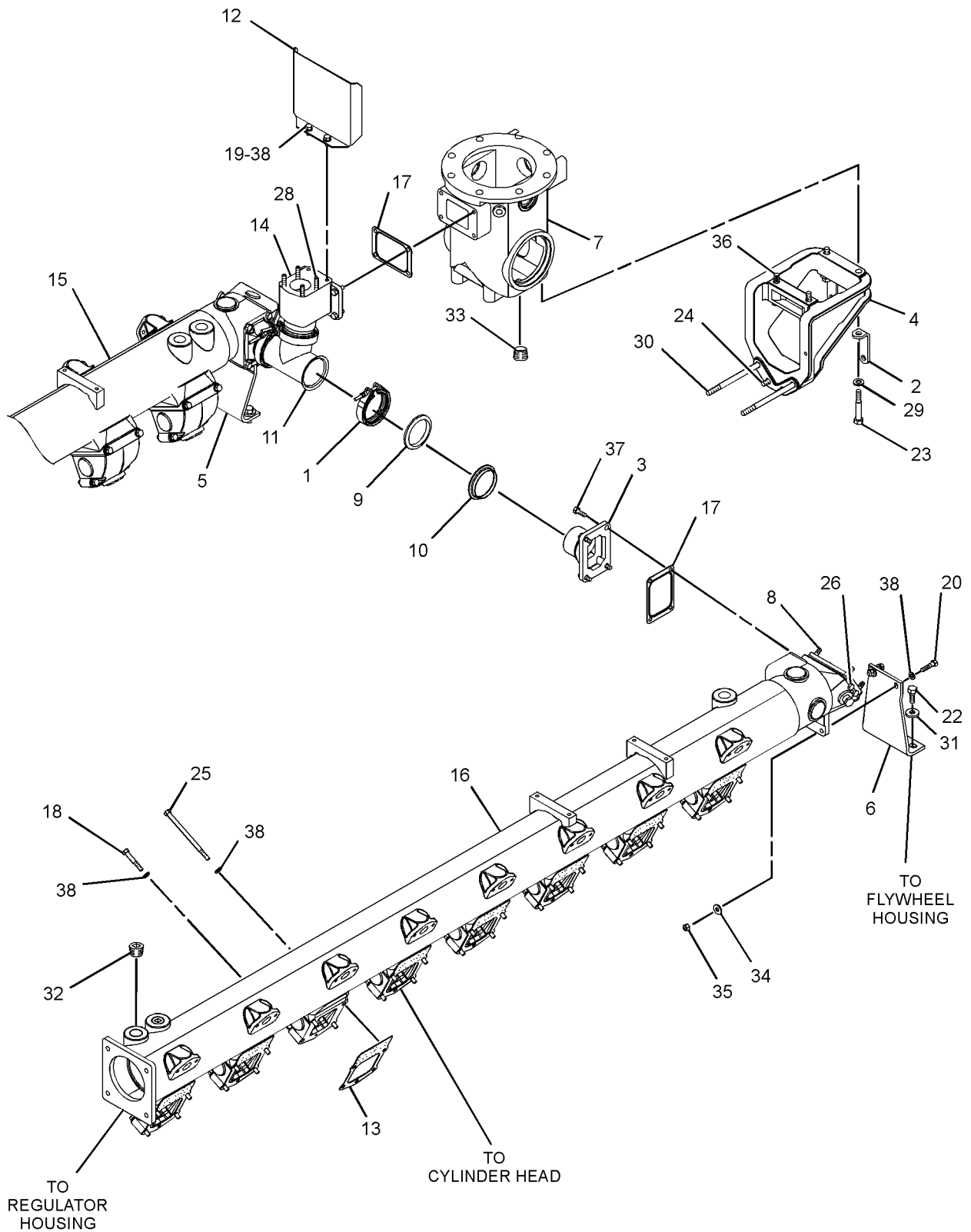
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NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1W-2430	3	CLAMP-V-BAND						
	2	1	1W-2860	2	BRACKET						
	3	1	2W-5713	2	ADAPTER						
	4	1	2W-5958	1	SUPPORT						
	5	1	4W-7273	1	BRACKET (RH)						
	6	1	4W-7274	1	BRACKET (LH)						
	7	1	4W-7283	1	ELBOW AS-EXHAUST						
		1	0S-0519	2	PLUG-CUP (SMALL)						
		1	4F-5695	3	PLUG-CUP (LARGE)						
	8	1	6L-8562	8	STUD-TAPERLOCK (3/8-16X1.77-IN)						
	9	1	7C-3920	3	SEAL-EXHAUST						
	10	1	7C-3921	3	RING-EXHAUST SEAL						
	11	1	7C-6239	1	TEE AS-EXHAUST						
	12	1	7E-2900	1	PLATE						
	13	1	7E-4127	16	GASKET						
	14	1	9Y-1568	1	HOUSING (WASTE-GATE)						
	15	1	108-6175	1	MANIFOLD AS						
		1	7W-6492		PLUG-PIPE						
	16	1	108-6176	1	MANIFOLD AS						
		1	7W-6492		PLUG-PIPE						
	17	1	121-5736	3	GASKET (TURBOCHARGER)						
	18	1	0L-2070	32	BOLT (3/8-16X2.25-IN)						
	19	1	0S-0509	2	BOLT (3/8-16X0.75-IN)						
	20	1	0S-1591	4	BOLT (3/8-16X1.5-IN)						
	22	1	0S-1595	4	BOLT (1/2-13X1.25-IN)						
	23	1	0V-0375	2	BOLT (1/2-13X3.25-IN)						
	24	1	1A-5822	2	BOLT (1/2-13X2.75-IN)						
	25	1	1D-4706	32	BOLT (3/8-16X6-IN)						
	26	1	3E-7428	4	PLUG-PIPE						
	28	1	5P-2603	4	STUD-TAPERLOCK						
	29	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
	30	1	6M-9613	2	BOLT (1/2-13X9-IN)						
	31	1	7D-1649	4	WASHER-HARD (13.5X32X5-MM THK)						
	32	1	8T-6761	3	PLUG-PIPE						
	33	1	8T-6762	2	PLUG-PIPE						
	34	1	9L-9132	4	WASHER (10.2X25.5X2.5-MM THK)						
	35	1	9S-8752	4	NUT-FULL (3/8-16-THD)						
	36	1	9X-8874	2	BOLT (1/2-13X3-IN)						
	37	1	0S-1594	12	BOLT (3/8-16X1-IN)						
	38	1	5M-2894	70	WASHER-HARD (10.2X18.5X2.5-MM THK)						

AIR INLET AND EXHAUST SYSTEM

108-9652 MANIFOLD GP-EXHAUST (contd.)

i02358717



GRAPHIC #1

<END>

g01239587

AIR INLET AND EXHAUST SYSTEM

138-6257 MANIFOLD GP-EXHAUST

S/N: ZBA1-UP

SMCS-1059

i02226193

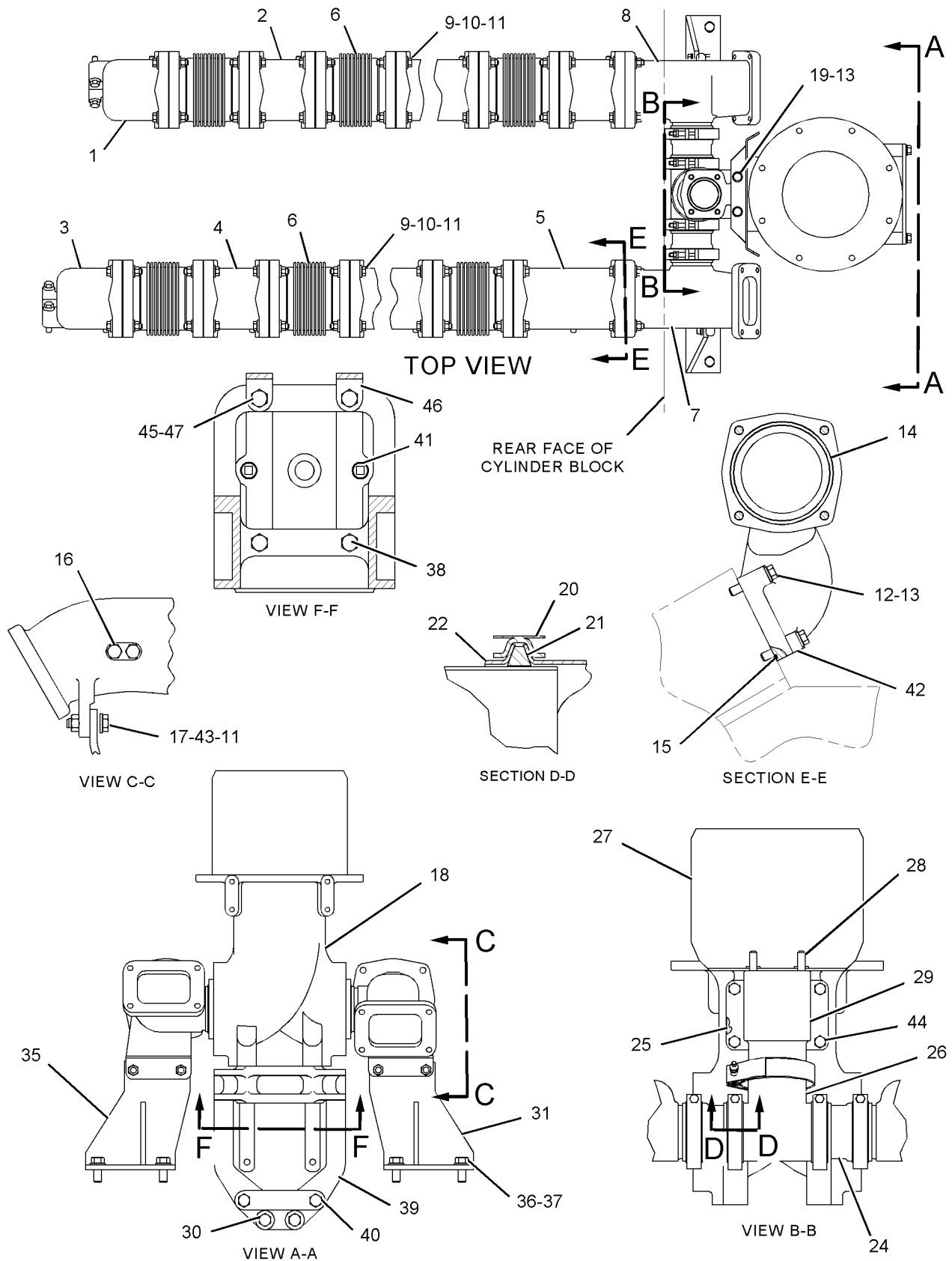
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					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	100-3145	1	MANIFOLD-EXHAUST (FRONT, RH)						
	2	1	100-3146	7	MANIFOLD-EXHAUST (INTERMEDIATE, RH)						
	3	1	100-3147	1	MANIFOLD-EXHAUST (FRONT, LH)						
	4	1	100-3148	6	MANIFOLD-EXHAUST (INTERMEDIATE, LH)						
	5	1	100-3149	1	MANIFOLD-EXHAUST (REAR, LH)						
C	6	1	207-1364	14	BELLOWS AS						
	7	1	137-4901	1	ELBOW-EXHAUST (LH)						
	8	1	137-4902	1	ELBOW-EXHAUST (RH)						
	9	1	7L-6443	120	BOLT-HIGH TEMPERATURE (3/8-16X2.25-IN)						
	10	1	110-8314	240	WASHER (10.3X18.3X2.66-MM THK)						
	11	1	3E-6916	124	NUT-FULL (3/8-16-THD)						
	12	1	9L-7373	64	BOLT-HIGH TEMPERATURE (3/8-16X2-IN)						
	13	1	5M-2894	66	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	14	1	229-5333	30	SEAL-EXHAUST						
C	15	1	229-5332	16	SEAL-EXHAUST						
C	16	1	168-3349	4	PLUG-PIPE						
	17	1	3B-1915	4	BOLT (3/8-16X1.375-IN)						
C	18	1	195-5218	1	ELBOW						
	19	1	0S-0509	2	BOLT (3/8-16X0.75-IN)						
	20	1	1W-2430	5	CLAMP-V-BAND						
	21	1	7C-3920	5	SEAL-EXHAUST						
	22	1	7C-3921	5	RING-EXHAUST SEAL						
	24	1	138-4408	2	ADAPTER						
	25	1	121-5736	1	GASKET (TURBOCHARGER)						
	26	1	121-7526	1	TEE AS						
	27	1	7E-2900	1	PLATE						
	28	1	5P-2603	4	STUD-TAPERLOCK						
	29	1	9Y-1568	1	HOUSING (WASTE-GATE)						
	30	1	1A-5822	2	BOLT (1/2-13X2.75-IN)						
	31	1	121-7527	1	BRACKET						
	35	1	121-7528	1	BRACKET						
	36	1	6H-1717	4	BOLT (1/2-13X1.125-IN)						
	37	1	5P-1076	4	WASHER-HARD (13.5X30X4-MM THK)						
C	38	1	9X-8874	2	BOLT (1/2-13X3-IN)						
	39	1	2W-5958	1	SUPPORT						
	40	1	6M-9613	2	BOLT (1/2-13X9-IN)						
	41	1	8T-6762	2	PLUG-PIPE						
	42	1	4P-7680	16	SPACER (10.5X22.5X15-MM THK)						
	43	1	9L-9132	4	WASHER (10.2X25.5X2.5-MM THK)						
	44	1	140-3047	4	BOLT (3/8-16X1.125-IN)						
C	45	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
C	46	1	1W-2860	2	BRACKET						
C	47	1	0V-0375	2	BOLT (1/2-13X3.25-IN)						

C- CHANGE FROM PREVIOUS TYPE

AIR INLET AND EXHAUST SYSTEM

138-6257 MANIFOLD GP-EXHAUST (contd.)

i02226193



GRAPHIC #1

<END>

g01075527

AIR INLET AND EXHAUST SYSTEM

157-5154 MANIFOLD GP - EXHAUST

S/N: ZBA1-UP

SMCS-1059

i02235896

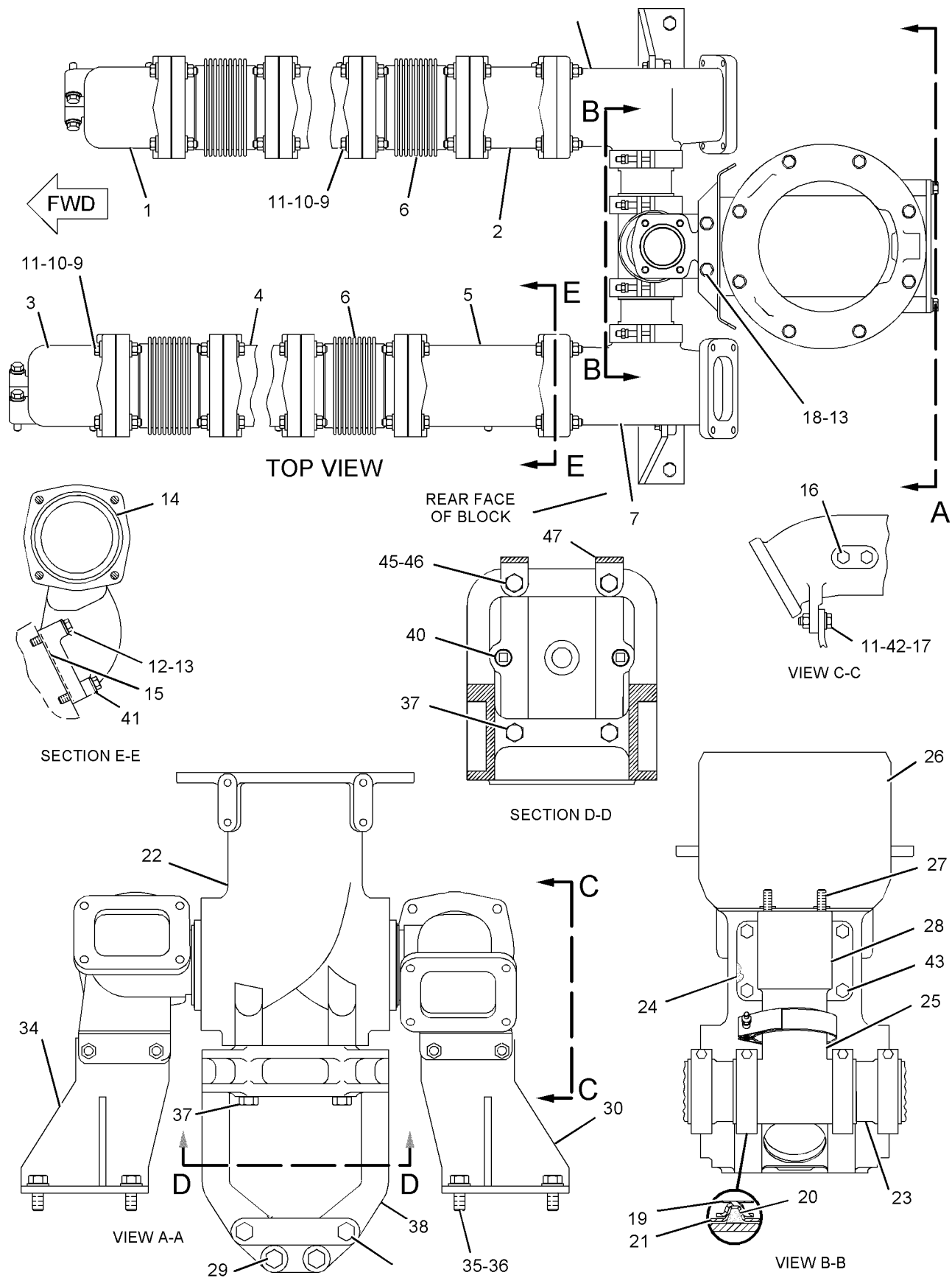
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	146-3041	1	MANIFOLD-EXHAUST (FRONT, RH)						
	2	1	146-3042	7	MANIFOLD-EXHAUST (INTERMEDIATE, RH)						
	3	1	146-3043	1	MANIFOLD-EXHAUST (FRONT, LH)						
	4	1	146-3044	6	MANIFOLD-EXHAUST (INTERMEDIATE, LH)						
	5	1	146-3045	1	MANIFOLD-EXHAUST (REAR, LH)						
	6	1	222-4701	14	BELLOWS AS						
	7	1	146-3049	1	ELBOW-EXHAUST (LH)						
	8	1	146-3050	1	ELBOW-EXHAUST (RH)						
	9	1	7L-6443	120	BOLT-HIGH TEMPERATURE (3/8-16X2.25-IN)						
	10	1	110-8314	240	WASHER (10.3X18.3X2.66-MM THK)						
	11	1	3E-6916	124	NUT-FULL (3/8-16-THD)						
	12	1	9L-7373	64	BOLT-HIGH TEMPERATURE (3/8-16X2-IN)						
	13	1	5M-2894	66	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	14	1	154-7477	30	SEAL						
	15	1	229-5332	16	SEAL-EXHAUST						
	16	1	168-3349	4	PLUG-PIPE						
	17	1	3B-1915	4	BOLT (3/8-16X1.375-IN)						
	18	1	0S-0509	2	BOLT (3/8-16X0.75-IN)						
	19	1	1W-2430	5	CLAMP-V-BAND						
					(EACH INCLUDES)						
		1	8T-0122	1	NUT-FULL (1/4-28-THD)						
	20	1	7C-3920	5	SEAL-EXHAUST						
	21	1	7C-3921	5	RING-EXHAUST SEAL						
C	22	1	195-5218	1	ELBOW						
	23	1	138-4408	2	ADAPTER						
	24	1	121-5736	1	GASKET (TURBOCHARGER)						
	25	1	121-7526	1	TEE AS						
	26	1	7E-2900	1	PLATE						
	27	1	5P-2603	4	STUD-TAPERLOCK						
	28	1	146-3051	1	HOUSING-EXHAUST						
	29	1	1A-5822	2	BOLT (1/2-13X2.75-IN)						
	30	1	121-7527	1	BRACKET						
	34	1	121-7528	1	BRACKET						
	35	1	6H-1717	4	BOLT (1/2-13X1.125-IN)						
	36	1	5P-1076	4	WASHER-HARD (13.5X30X4-MM THK)						
	37	1	9X-8874	2	BOLT (1/2-13X3-IN)						
	38	1	2W-5958	1	SUPPORT						
	39	1	6M-9613	2	BOLT (1/2-13X9-IN)						
	40	1	8T-6762	2	PLUG-PIPE						
	41	1	4P-7680	16	SPACER (10.5X22.5X15-MM THK)						
	42	1	9L-9132	4	WASHER (10.2X25.5X2.5-MM THK)						
	43	1	140-3047	4	BOLT (3/8-16X1.125-IN)						
	45	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
	46	1	0V-0375	2	BOLT (1/2-13X3.25-IN)						
	47	1	1W-2860	2	BRACKET						

C- CHANGE FROM PREVIOUS TYPE

AIR INLET AND EXHAUST SYSTEM

157-5154 MANIFOLD GP - EXHAUST (contd.)

i02235896



GRAPHIC #1

<END>

g01127694

AIR INLET AND EXHAUST SYSTEM

217-8178 MANIFOLD GP-EXHAUST

S/N: ZBA1-UP

SMCS-1059

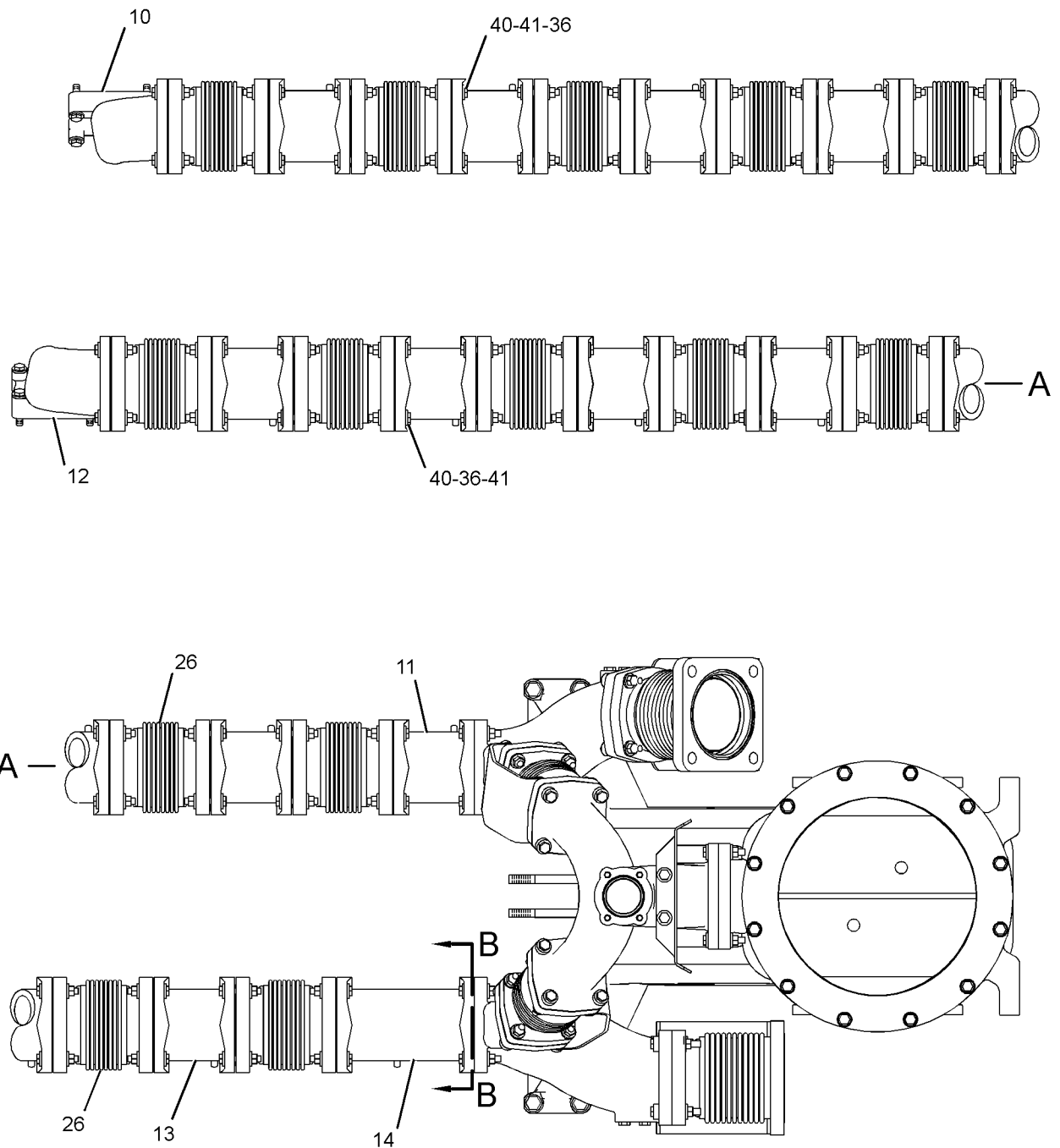
i02801379

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	3	1L-5081	12	SPACER (0.41X0.75X0.56-IN THK)						
	3	2	4P-7680	16	SPACER (10.5X22.5X15-MM THK)						
	4	3	5P-2603	4	STUD-TAPERLOCK						
	5	3	7E-2326	2	SEAL-RING						
	6	2	7E-2900	1	PLATE						
	7	3	100-8003	1	ELBOW-EXHAUST						
	8	3	107-7954	24	SPACER (10.2X22X8-MM THK)						
	9	3	109-1086	1	SPACER (18.5X29X6-MM THK)						
	10	1	146-3041	1	MANIFOLD-EXHAUST (FRONT, RH)						
	11	1	146-3042	7	MANIFOLD-EXHAUST (INTERMEDIATE, RH)						
	12	1	146-3043	1	MANIFOLD-EXHAUST (FRONT, LH)						
	13	1	146-3044	6	MANIFOLD-EXHAUST (INTERMEDIATE, LH)						
	14	1	146-3045	1	MANIFOLD-EXHAUST (REAR, LH)						
	15	2,3	154-7477	33	SEAL						
	16	3	165-1616	2	BRACKET						
	17	3	165-7662	1	ELBOW						
	18	3	165-7663	1	ELBOW						
	19	3	165-7666	1	HOUSING						
	20	3	165-7667	4	SEAL						
	21	3	166-3639	2	SEAL						
	22	3	166-6657	2	BRACKET						
	23	3	170-0125	1	ADAPTER						
	25	3	183-3913	1	SUPPORT (EXHAUST ELBOW)						
	26	1	222-4701	14	BELLOWS AS						
	27	3	222-4702	2	BELLOWS AS						
	28	3	222-4703	2	BELLOWS AS						
	29	2	229-5332	16	SEAL-EXHAUST						
	30	3	0S-0509	2	BOLT (3/8-16X0.75-IN)						
	31	3	0S-1573	4	BOLT (1/2-13X4-IN)						
	32	3	168-3349	4	PLUG-PIPE						
	33	2,3	1A-1460	13	BOLT (1/2-13X2-IN)						
	34	3	2M-0849	8	WASHER-HARD (13.5X25.5X5-MM THK)						
	35	3	3E-2331	1	PLUG						
	36	1,3	3E-6916	172	NUT-FULL (3/8-16-THD)						
	37	3	5P-2755	24	BOLT-HIGH TEMPERATURE (3/8-16X2.75-IN)						
	38	2,3	5P-8245	13	WASHER-HARD (13.5X25.5X3-MM THK)						
	39	2	6M-9613	2	BOLT (1/2-13X9-IN)						
	40	1,3	7L-6443	148	BOLT-HIGH TEMPERATURE (3/8-16X2.25-IN)						
	41	1,2,3	8C-8491	372	WASHER-HARD (10.2X22X3-MM THK)						
	43	2	9L-7373	64	BOLT-HIGH TEMPERATURE (3/8-16X2-IN)						
	44	2	9X-8874	2	BOLT (1/2-13X3-IN)						

AIR INLET AND EXHAUST SYSTEM

217-8178 MANIFOLD GP - EXHAUST (contd.)

i02801379



TOP VIEW OF ENGINE

REFER TO ALL ILLUSTRATIONS OF THIS GROUP FOR AUXILIARY VIEWS.

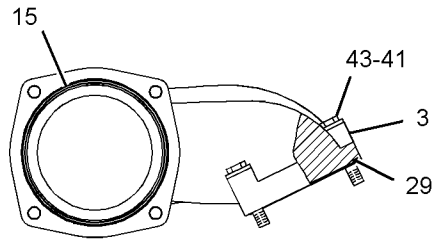
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g01401771

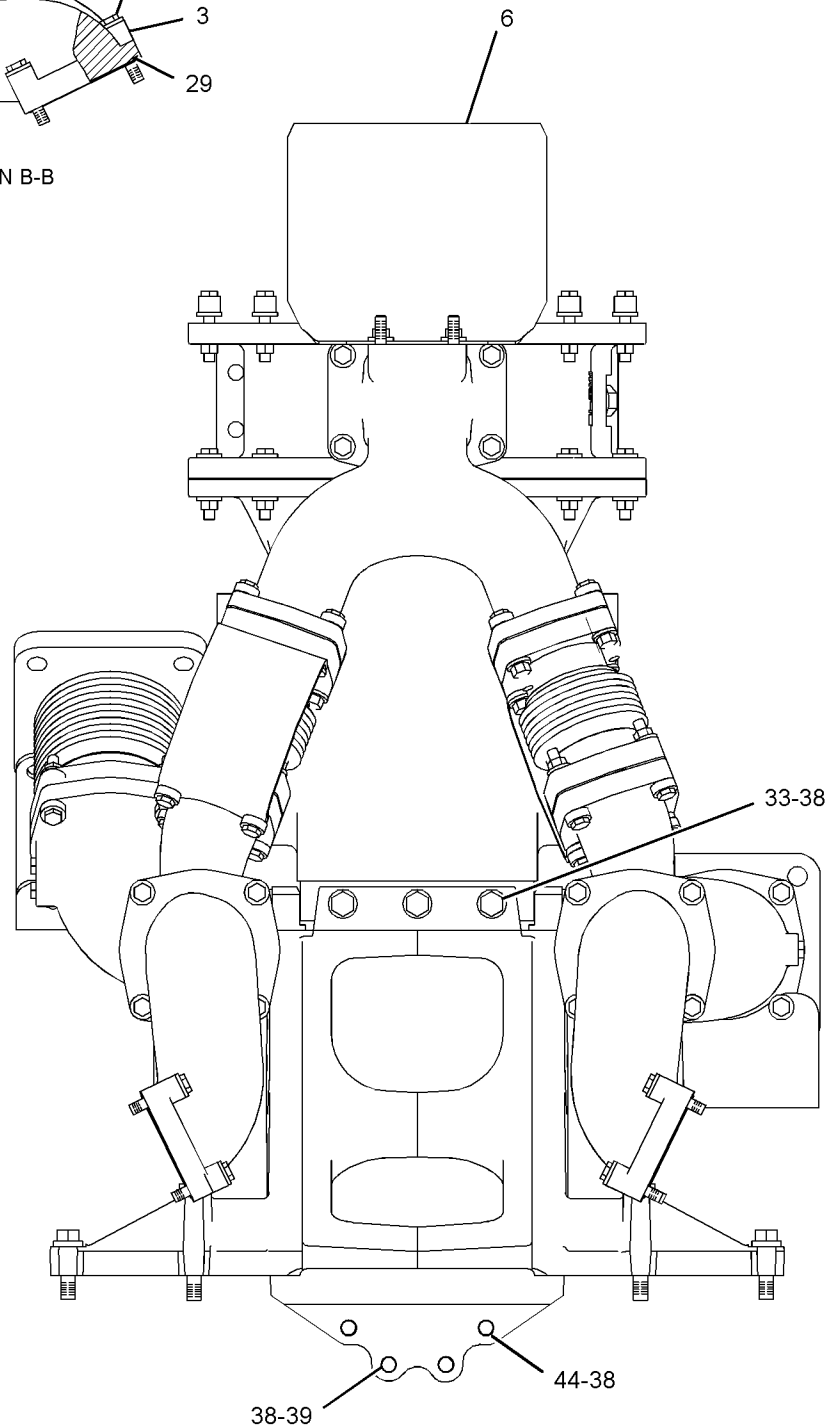
AIR INLET AND EXHAUST SYSTEM

217-8178 MANIFOLD GP - EXHAUST (contd.)

i02801379



SECTION B-B



FRONT VIEW OF ENGINE

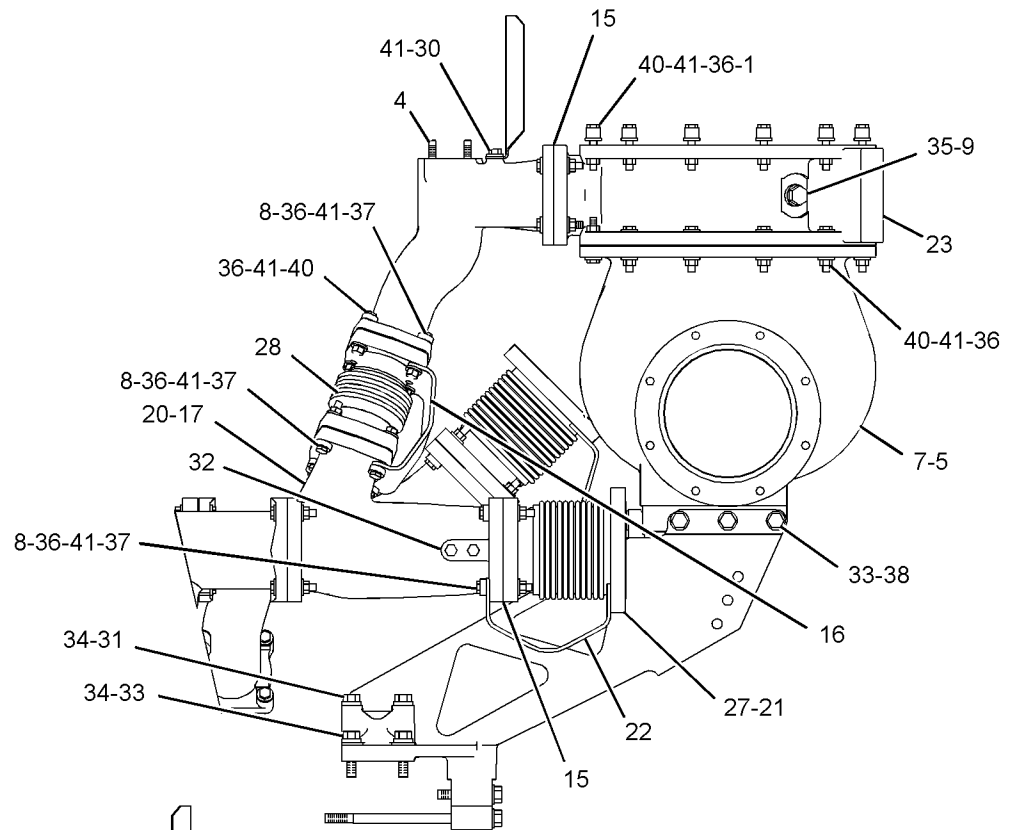
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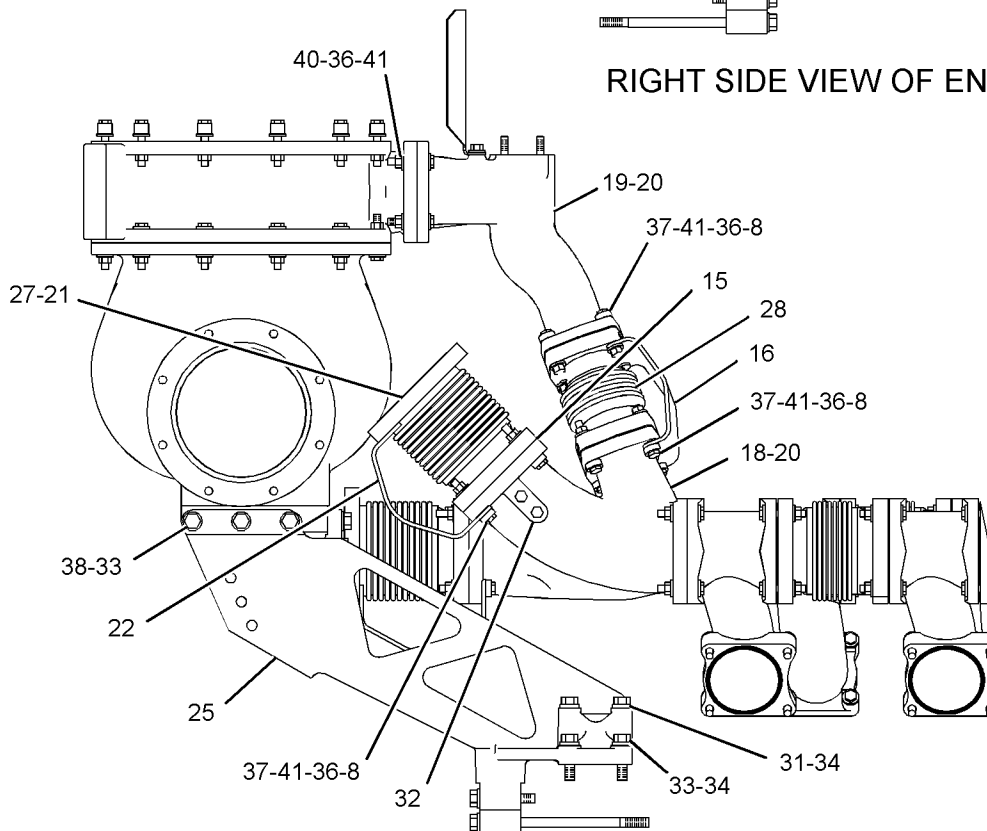
AIR INLET AND EXHAUST SYSTEM

217-8178 MANIFOLD GP - EXHAUST (contd.)

i02801379



RIGHT SIDE VIEW OF ENGINE



LEFT SIDE VIEW OF ENGINE

GRAPHIC #3

<END>

g01401801

AIR INLET AND EXHAUST SYSTEM

4W-6341 MOUNTING GP-AIR CLEANER

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1051

i02220700

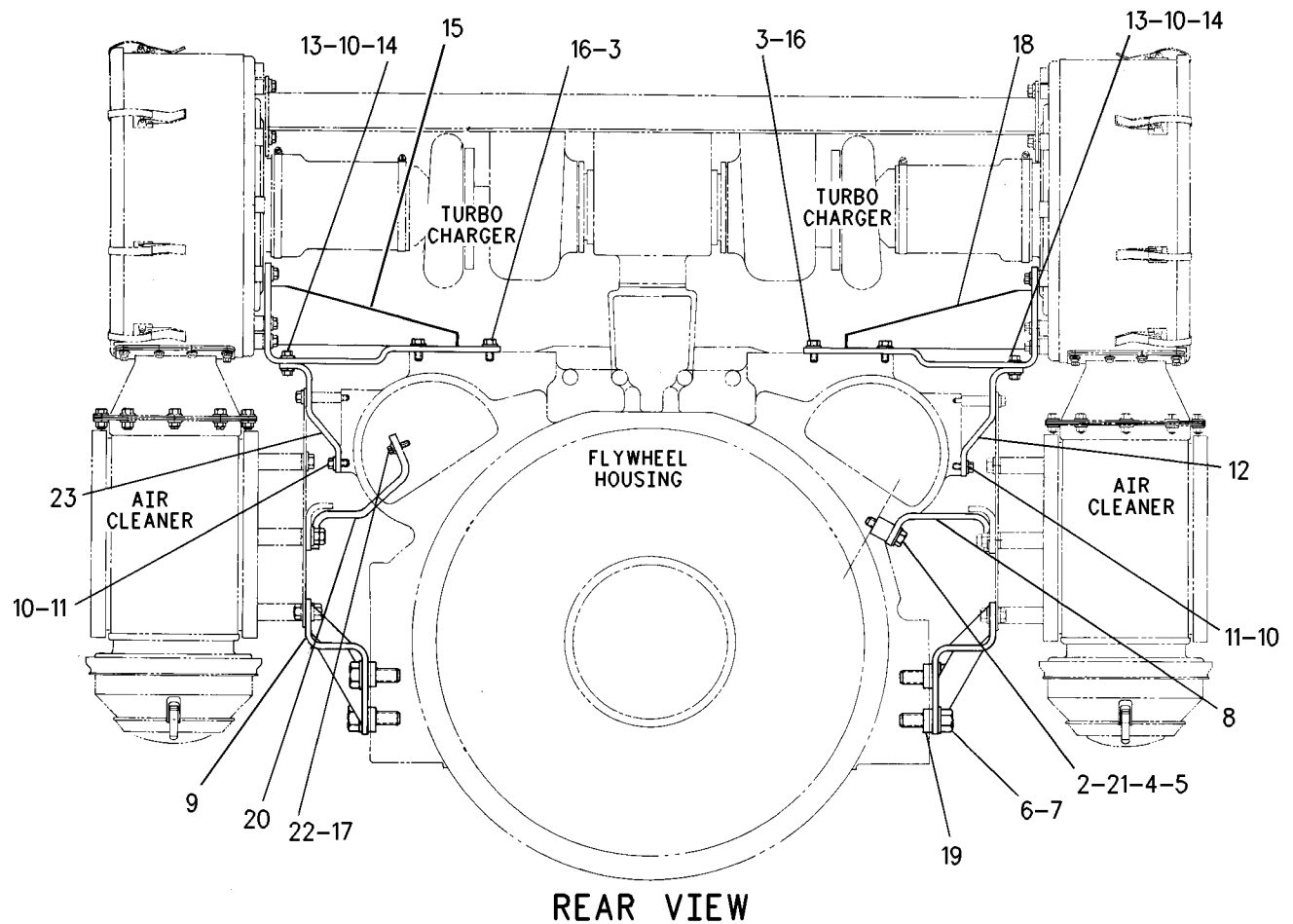
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	2	1	9S-1366	1	BOLT (1/2-13X2.5-IN)						
	3	1	5P-8245	6	WASHER-HARD (13.5X25.5X3-MM THK)						
B	4	1	7N-3674	1	BLOCK						
B	5	1	1K-4649	1	SPACER (0.516X1X1-IN THK)						
	6	1	6B-9194	4	BOLT (1-14X3-IN)						
	7	1	5P-8250	4	WASHER (28X49X5-MM THK)						
	8	1	7E-9762	1	BRACKET AS						
	9	1	7C-0799	2	BRACKET AS						
	10	1	5M-2894	10	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	11	1	1A-2029	4	BOLT (3/8-16X1.125-IN)						
	12	1	5N-7916	1	BRACKET						
	13	1	9S-8752	3	NUT-FULL (3/8-16-THD)						
	14	1	3B-1915	3	BOLT (3/8-16X1-3/8-IN)						
	15	1	5N-7910	1	BRACKET AS (LH)						
	16	1	6H-1717	6	BOLT (1/2-13X1.125-IN)						
	17	1	0S-1588	1	BOLT (3/8-16X1.25-IN)						
	18	1	5N-7908	1	BRACKET AS (RH)						
	19	1	8G-2077	4	SPACER (26X45X17.5-MM THK)						
	20	1	9Y-2942	1	BRACKET						
	21	1	5P-8245	1	WASHER-HARD (13.5X25.5X3-MM THK)						
	22	1	5M-2894	1	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	23	1	209-7017	1	BRACKET						

B-USE AS REQUIRED

AIR INLET AND EXHAUST SYSTEM

4W-6341 MOUNTING GP-AIR CLEANER (contd.)

i02220700



GRAPHIC #1

<END>

g00829530

AIR INLET AND EXHAUST SYSTEM

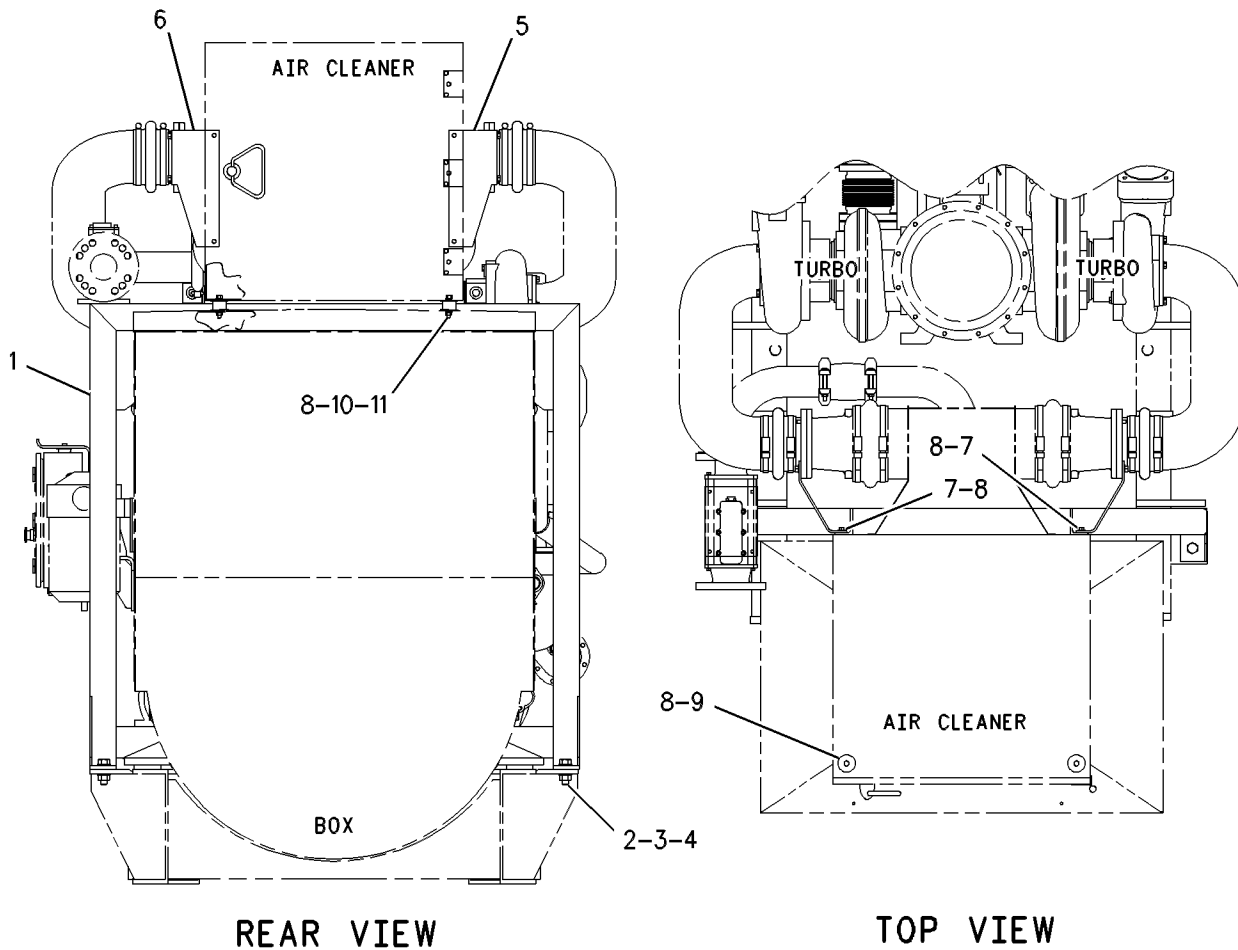
149-2268 MOUNTING GP-AIR CLEANER

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1051

i01014775

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	149-2254	1	BRACKET AS						
	2	1	1A-0458	2	BOLT (3/4-10X1.75-IN)						
	3	1	2J-3506	2	NUT-FULL (3/4-10-THD)						
	4	1	5P-8248	4	WASHER-HARD (20X36.5X3.5-MM THK)						
	5	1	149-2278	1	BRACKET						
	6	1	149-2279	1	BRACKET						
	7	1	1A-2029	4	BOLT (3/8-16X1.125-IN)						
	8	1	5M-2894	12	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	9	1	4P-0870	2	MOUNT-FLEXIBLE						
	10	1	9S-8752	2	NUT-FULL (3/8-16-THD)						
	11	1	0S-0509	2	BOLT (3/8-16X0.75-IN)						



GRAPHIC #1

<END>

g00527717

AIR INLET AND EXHAUST SYSTEM

206-7137 MOUNTING GP-AIR CLEANER

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1051

i02007290

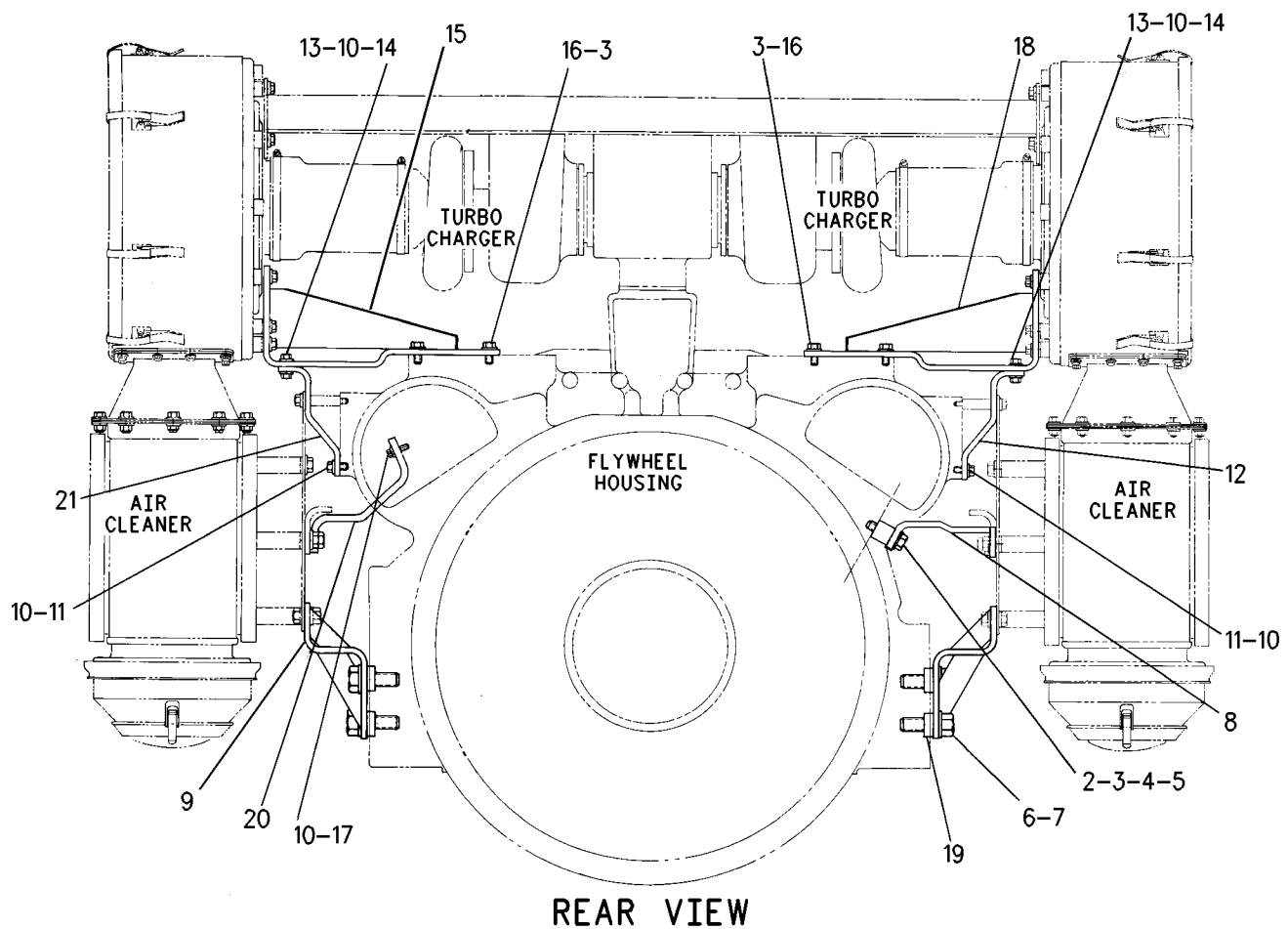
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	2	1	9S-1366	1	BOLT (1/2-13X2.5-IN)						
	3	1	5P-8245	7	WASHER-HARD (13.5X25.5X3-MM THK)						
B	4	1	7N-3674	1	BLOCK (MOUNTING)						
B	5	1	1K-4649	1	SPACER (0.516X1X1-IN THK)						
	6	1	6B-9194	4	BOLT (1-14X3-IN)						
	7	1	5P-8250	4	WASHER (28X49X5-MM THK)						
	8	1	7E-9762	1	BRACKET AS						
	9	1	7C-0799	2	BRACKET AS						
	10	1	5M-2894	11	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	11	1	1A-2029	4	BOLT (3/8-16X1.125-IN)						
	12	1	5N-7916	1	BRACKET						
	13	1	9S-8752	3	NUT-FULL (3/8-16-THD)						
	14	1	3B-1915	3	BOLT (3/8-16X1-3/8-IN)						
	15	1	5N-7910	1	BRACKET AS (LH)						
	16	1	6H-1717	6	BOLT (1/2-13X1.125-IN)						
	17	1	0S-1588	1	BOLT (3/8-16X1.25-IN)						
	18	1	5N-7908	1	BRACKET AS (RH)						
	19	1	8G-2077	4	SPACER (26X45X17.5-MM THK)						
	20	1	238-4745	1	BRACKET						
	21	1	209-7017	1	BRACKET						

B-USE AS REQUIRED

AIR INLET AND EXHAUST SYSTEM

206-7137 MOUNTING GP-AIR CLEANER (contd.)

i02007290



GRAPHIC #1

<END>

g00909410

AIR INLET AND EXHAUST SYSTEM

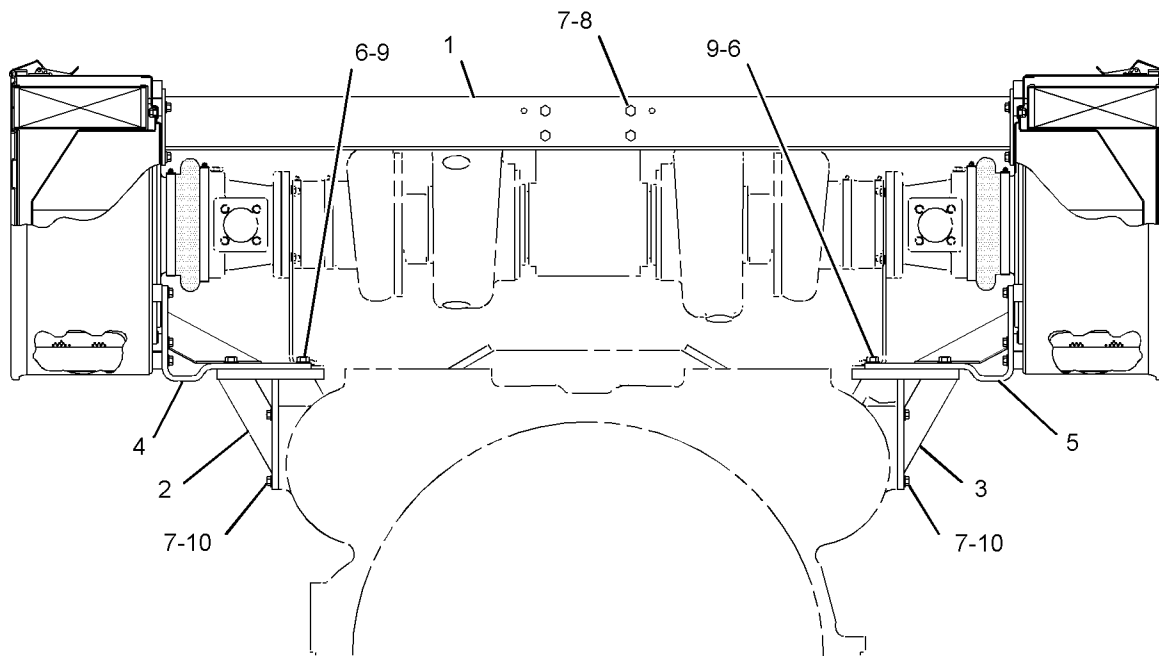
214-6133 MOUNTING GP-AIR CLEANER

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1051

i02064798

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-8225	1	SUPPORT AS						
	2	1	7E-8226	1	SUPPORT AS						
	3	1	7E-8227	1	SUPPORT AS						
	4	1	8N-8879	1	BRACKET AS						
	5	1	8N-8880	1	BRACKET AS						
	6	1	OS-1595	6	BOLT (1/2-13X1.25-IN)						
	7	1	1A-2029	12	BOLT (3/8-16X1.125-IN)						
	8	1	5M-2894	4	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	9	1	5P-8245	6	WASHER-HARD (13.5X25.5X3-MM THK)						
	10	1	9X-6458	8	WASHER-HARD (10.2X22.5X3-MM THK)						



GRAPHIC #1

REAR VIEW
<END>

g01058149

AIR INLET AND EXHAUST SYSTEM

2W-4075 MUFFLER

S/N: ZBA1-UP

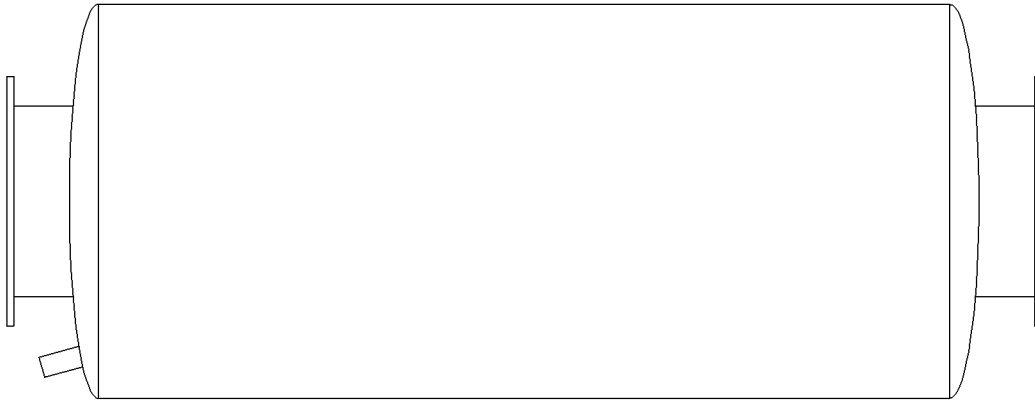
254-MM ID

AN ATTACHMENT

SMCS-1062

i01906756

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



GRAPHIC #1

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g00993159

AIR INLET AND EXHAUST SYSTEM

141-7047 MUFFLER

S/N: ZBA1-UP

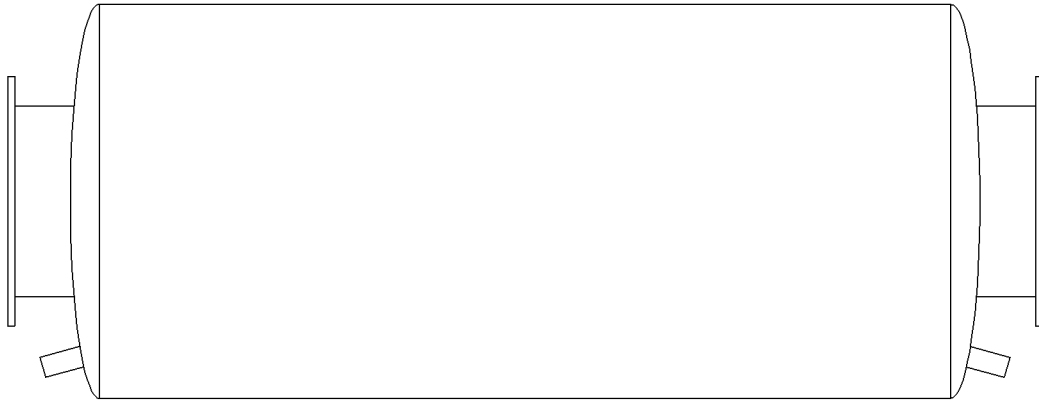
304.8-MM ID

AN ATTACHMENT

SMCS-1062

i01333885

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



GRAPHIC #1

<END>

g00705396

AIR INLET AND EXHAUST SYSTEM

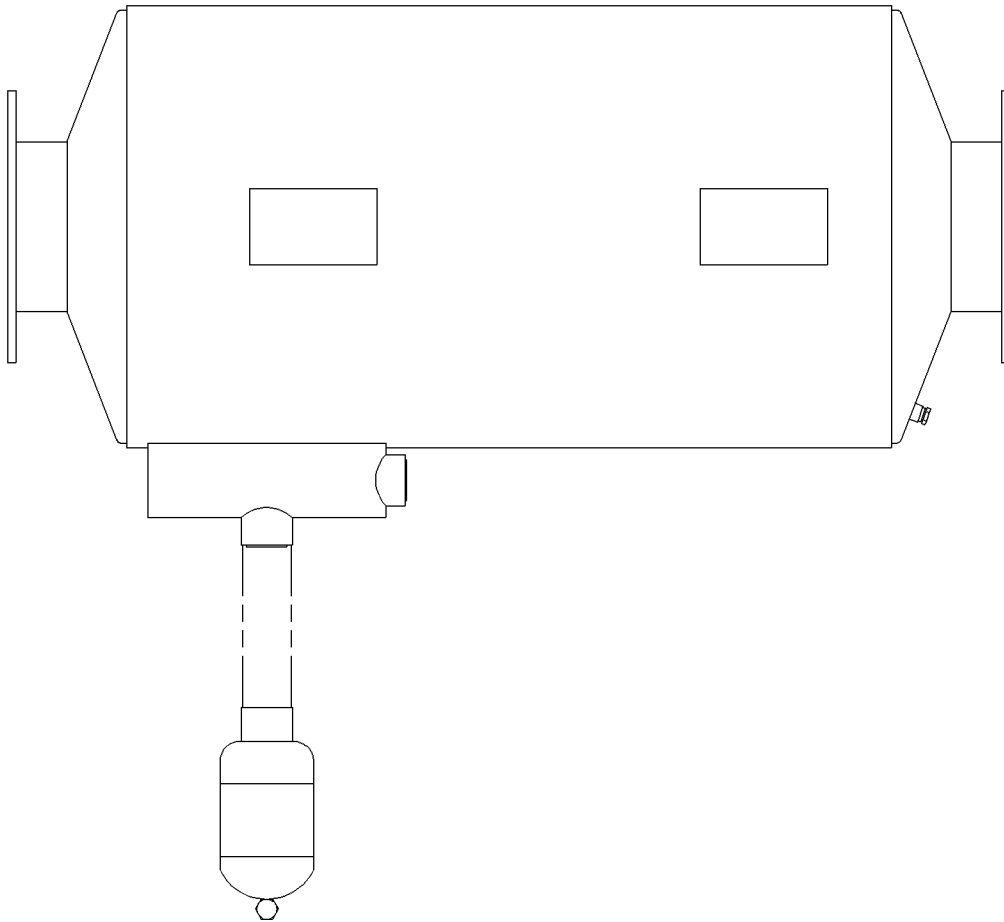
152-0596 MUFFLER GP-SPARK ARRESTOR

S/N: ZBA1-UP
254-MM (10-IN) ID
AN ATTACHMENT

SMCS-1062

i02729698

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



GRAPHIC #1

<END>

g00591584

AIR INLET AND EXHAUST SYSTEM

5N-7831 PRECLEANER GP-AIR CLEANER

S/N: ZBA1-UP

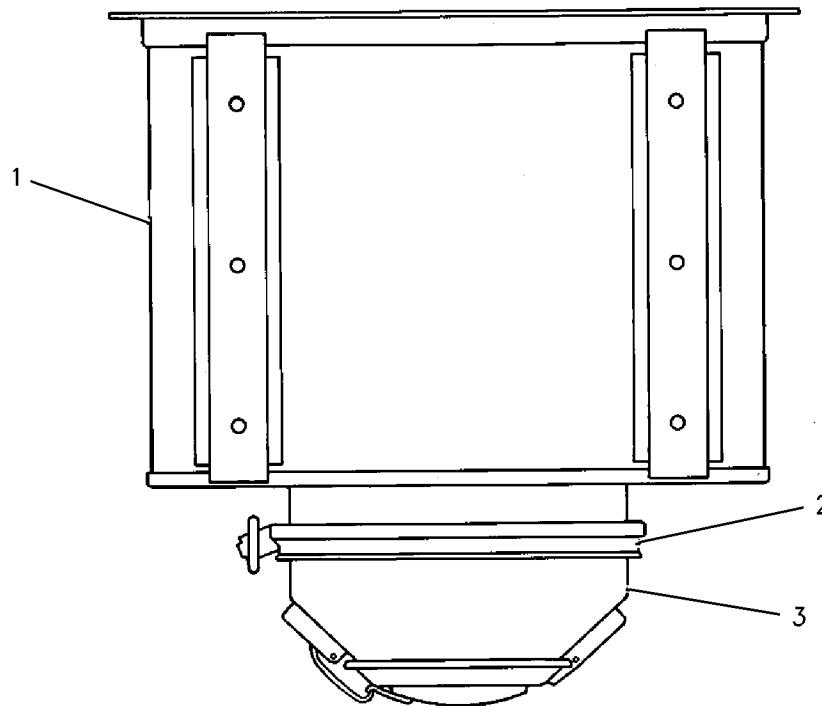
PART OF 5N-7904 AIR CLEANER GP

FOR USE WITH 5N-7823-PAGE 395. CANNOT BE USED WITH LIGHT DUTY AIR CLEANERS
AN ATTACHMENT

SMCS-1055

i01460162

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5N-7833	1	BODY AS						
	2	1	5N-7834	1	CLAMP AS						
		1	2M-0879	1	SEAL-O-RING						
	3	1	5N-7835	1	CUP AS						



GRAPHIC #1

<END>

g00763080

AIR INLET AND EXHAUST SYSTEM

201 - 1292 SHIELD GP - EXHAUST

S/N: ZBA1-UP
ALSO AN ATTACHMENT

SMCS-1067

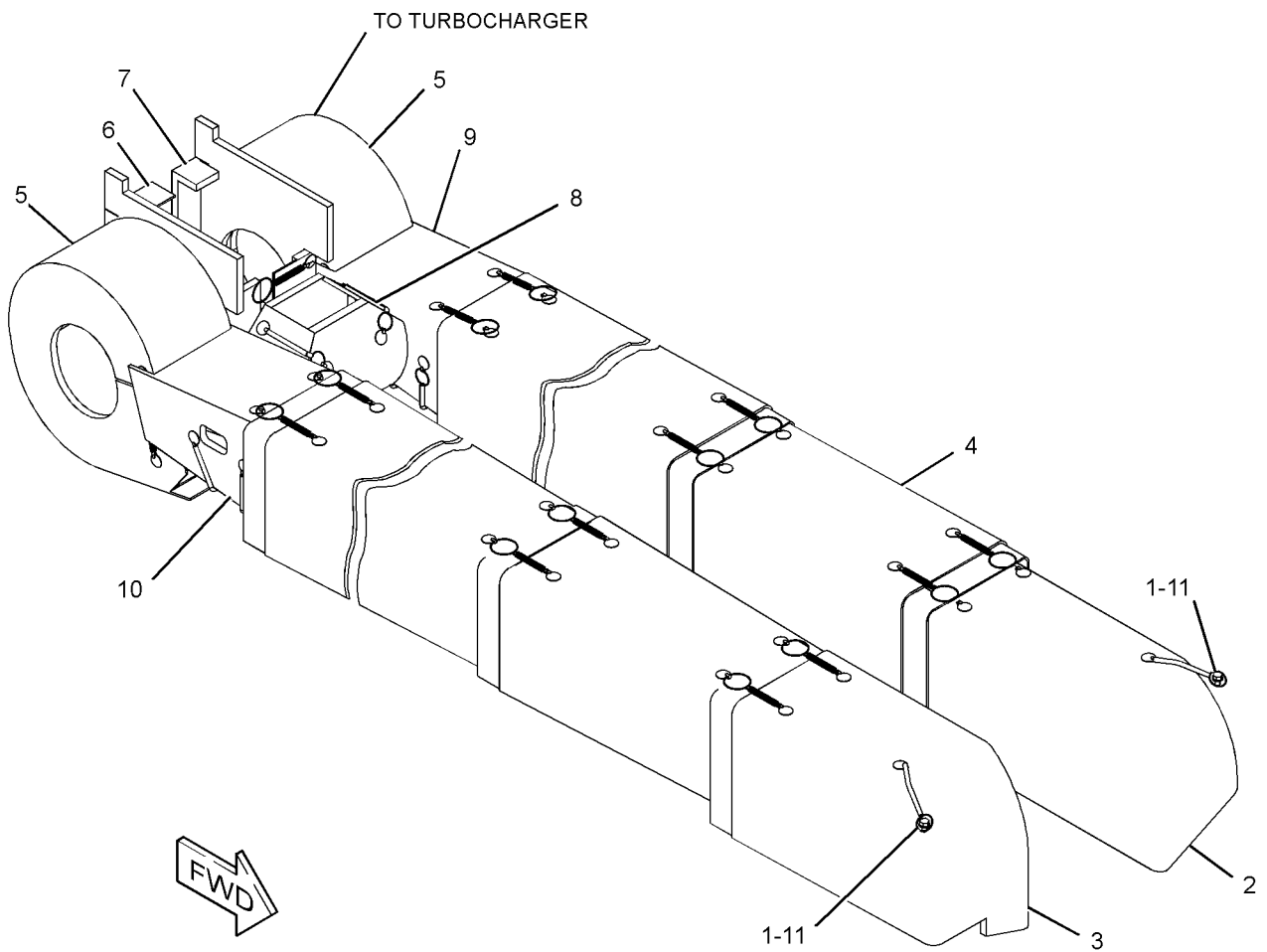
i02282286

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						
	2	1	237-6481	1	SHIELD AS						
		1	226-3939	1	SPRING						
	3	1	237-6482	1	SHIELD AS						
		1	226-3939	3	SPRING						
	4	1	237-6483	6	SHIELD AS						
					(EACH INCLUDES)						
		1	226-3939	2	SPRING						
	5	1	237-6484	2	SHIELD AS						
					(EACH INCLUDES)						
		1	226-3939	2	SPRING						
	6	1	237-6485	1	SHIELD AS-EXHAUST						
		1	226-3939	2	SPRING						
	7	1	237-6486	1	SHIELD AS-EXHAUST						
		1	226-3939	2	SPRING						
	8	1	237-6487	1	SHIELD AS						
		1	226-3939	2	SPRING						
	9	1	237-6488	1	SHIELD AS (TURBOCHARGER, LH)						
		1	226-3939	4	SPRING						
	10	1	237-6489	1	SHIELD AS (TURBOCHARGER, RH)						
		1	226-3939	4	SPRING						
	11	1	1C-0569	2	BOLT (5/16-18X0.5-IN)						

AIR INLET AND EXHAUST SYSTEM

201-1292 SHIELD GP-EXHAUST (contd.)

i02282286



GRAPHIC #1

<END>

g01200051

AIR INLET AND EXHAUST SYSTEM

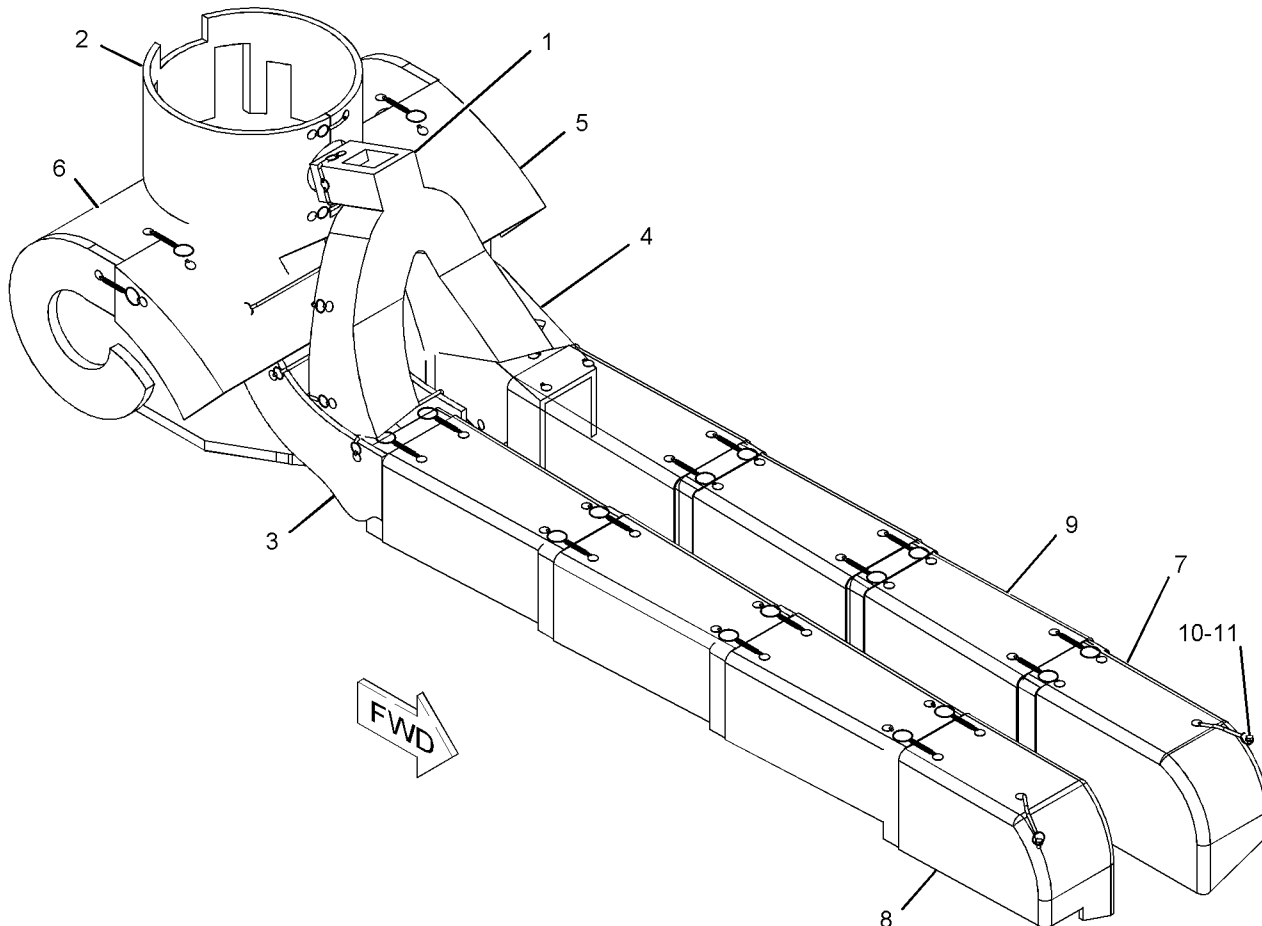
260 - 1398 SHIELD GP - EXHAUST

S/N: ZBA1-UP

SMCS - 1067

i02801377

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	222-9937	1	SHIELD AS						
		1	226-3939	8	SPRING (SHIELD)						
	2	1	222-9938	1	SHIELD AS						
		1	226-3939	2	SPRING (SHIELD)						
	3	1	222-9939	1	SHIELD AS						
		1	226-3939	4	SPRING (SHIELD)						
	4	1	222-9940	1	SHIELD AS						
		1	226-3939	5	SPRING (SHIELD)						
	5	1	222-9941	1	SHIELD AS						
	6	1	222-9942	1	SHIELD AS						
		1	226-3939	4	SPRING (SHIELD)						
	7	1	237-6481	1	SHIELD AS						
		1	226-3939	1	SPRING (SHIELD)						
	8	1	237-6482	1	SHIELD AS						
		1	226-3939	3	SPRING (SHIELD)						
	9	1	237-6483	6	SHIELD AS						
					(EACH INCLUDES)						
		1	226-3939	2	SPRING (SHIELD)						
	10	1	1C-0569	2	BOLT (5/16-18X0.5-IN)						
	11	1	3E-4352	2	WASHER-HARD (8.8X20.5X2.5-MM THK)						



GRAPHIC #1

<END>

g01119423

AIR INLET AND EXHAUST SYSTEM

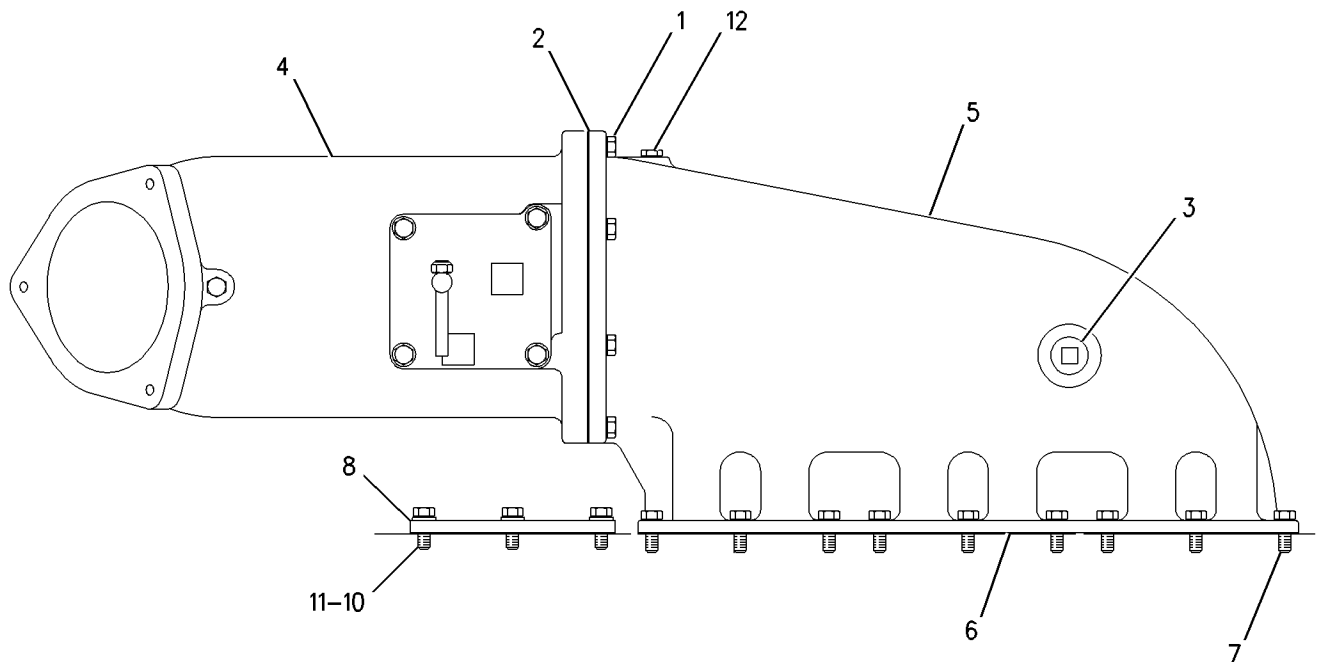
7C-5032 SHUTOFF GP-AIR

S/N: ZBA1-UP
24-VOLT TO 32-VOLT DC
AN ATTACHMENT

SMCS-1078

i02097996

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	0S-1591	8	BOLT (3/8-16X1.5-IN)	
	2	1	1W-7391	1	GASKET	
	3	1	8T-6761	2	PLUG-PIPE	
Y	4	1	144-8275	1	SHUTOFF GP-AIR	516
	5	1	2W-5213	1	HOUSING	
	6	1	1W-1251	4	GASKET	
	7	1	0S-1594	18	BOLT (3/8-16X1-IN)	
	8	1	1W-1250	1	COVER	
	10	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	11	1	1A-2029	8	BOLT (3/8-16X1.125-IN)	
	12	1	8T-6765	1	PLUG-PIPE	
FY			7W-6957	1	SOLENOID GP-SHUTOFF	860
F-NOT SHOWN						
Y-SEPARATE ILLUSTRATION						



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g00856531

AIR INLET AND EXHAUST SYSTEM

144-8275 SHUTOFF GP-AIR

S/N: ZBA1-UP

PART OF 7C-5032 SHUTOFF GP-AIR
AN ATTACHMENT

SMCS-1078

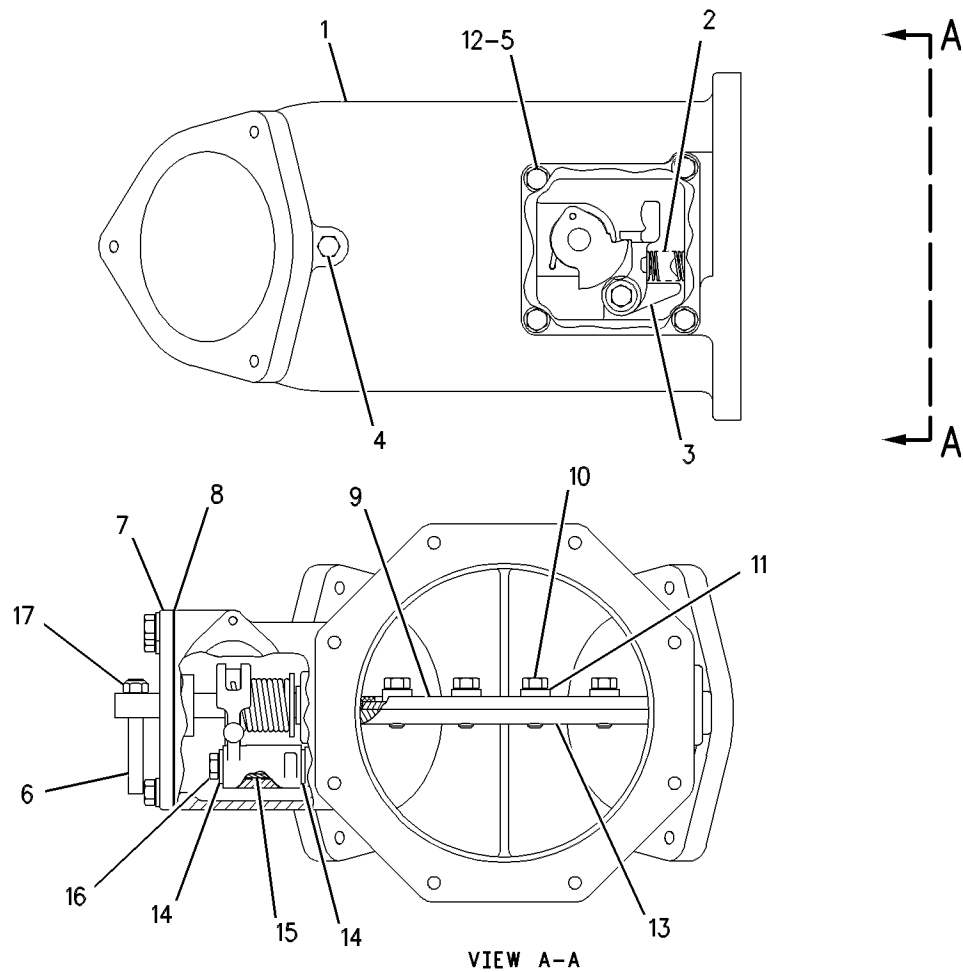
i02107074

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	144-8274	1	HOUSING AS						
		1	1W-8975	2	BUSHING-TERMINAL						
		1	3S-8313	1	PLUG-CUP						
		1	9H-0858	1	SEAL-LIP TYPE						
	2	1	4W-7959	1	SPRING						
	3	1	7E-2891	1	LEVER AS						
		1	1W-8974	2	BUSHING-TERMINAL						
	4	1	8T-6765	2	PLUG-PIPE						
	5	1	OS-1588	4	BOLT (3/8-16X1.25-IN)						
	6	1	5C-6819	1	ROD						
	7	1	133-9302	1	COVER AS						
		1	5G-0400	1	BEARING						
		1	5P-6859	1	SEAL-LIP TYPE						
	8	1	1W-8393	1	GASKET						
	9	1	2W-4880	1	PLATE AS						
	10	1	OS-1594	4	BOLT (3/8-16X1-IN)						
	11	1	8D-5898	4	SPACER (0.406X0.75X0.312-IN THK)						
	12	1	5M-2894	4	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	13	1	7E-2889	1	SHAFT AS						
		1	1H-9726	1	WASHER (0.656X1.62X0.12-IN)						
		1	4W-1954	1	SPRING						
		1	6N-0265	1	DOWEL						
	14	1	1T-0689	2	WASHER (9.93X22.22X2.54-MM THK)						
	15	1	1W-8378	1	SLEEVE						
	16	1	3H-6624	1	BOLT (3/8-16X3-IN)						
	17	1	2K-4973	1	LOCKNUT (3/8-16-THD)						

AIR INLET AND EXHAUST SYSTEM

144-8275 SHUTOFF GP-AIR (contd.)

i02107074



GRAPHIC #1

<END>

g00302481

AIR INLET AND EXHAUST SYSTEM

271-3830 SUPPORT GP - TURBOCHARGER

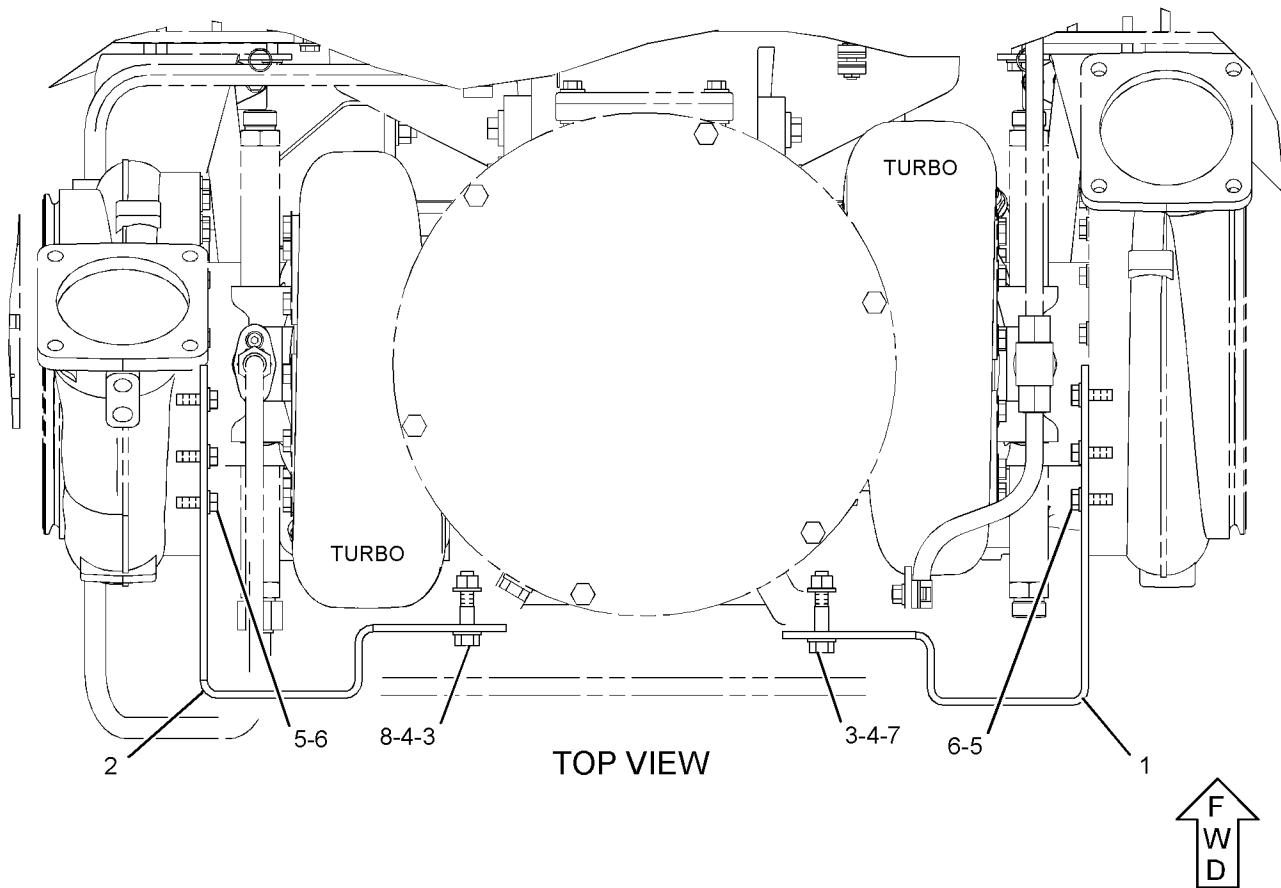
S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1052

i02357384

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	271-2347	1	BRACKET						
	2	1	271-2348	1	BRACKET						
	3	1	1F-7958	4	NUT-FULL (1/2-13-THD)						
	4	1	5P-8245	8	WASHER-HARD (13.5X25.5X3-MM THK)						
M	5	1	6V-1820	6	BOLT (M10X1.5X30-MM)						
	6	1	6V-5839	6	WASHER (11X21X2.5-MM THK)						
	7	1	9S-1366	2	BOLT (1/2-13X2.5-IN)						
	8	1	9X-8873	2	BOLT (1/2-13X2.25-IN)						

M-METRIC PART



GRAPHIC #1

<END>

g01194398

AIR INLET AND EXHAUST SYSTEM

4P-4606 TURBOCHARGER GP

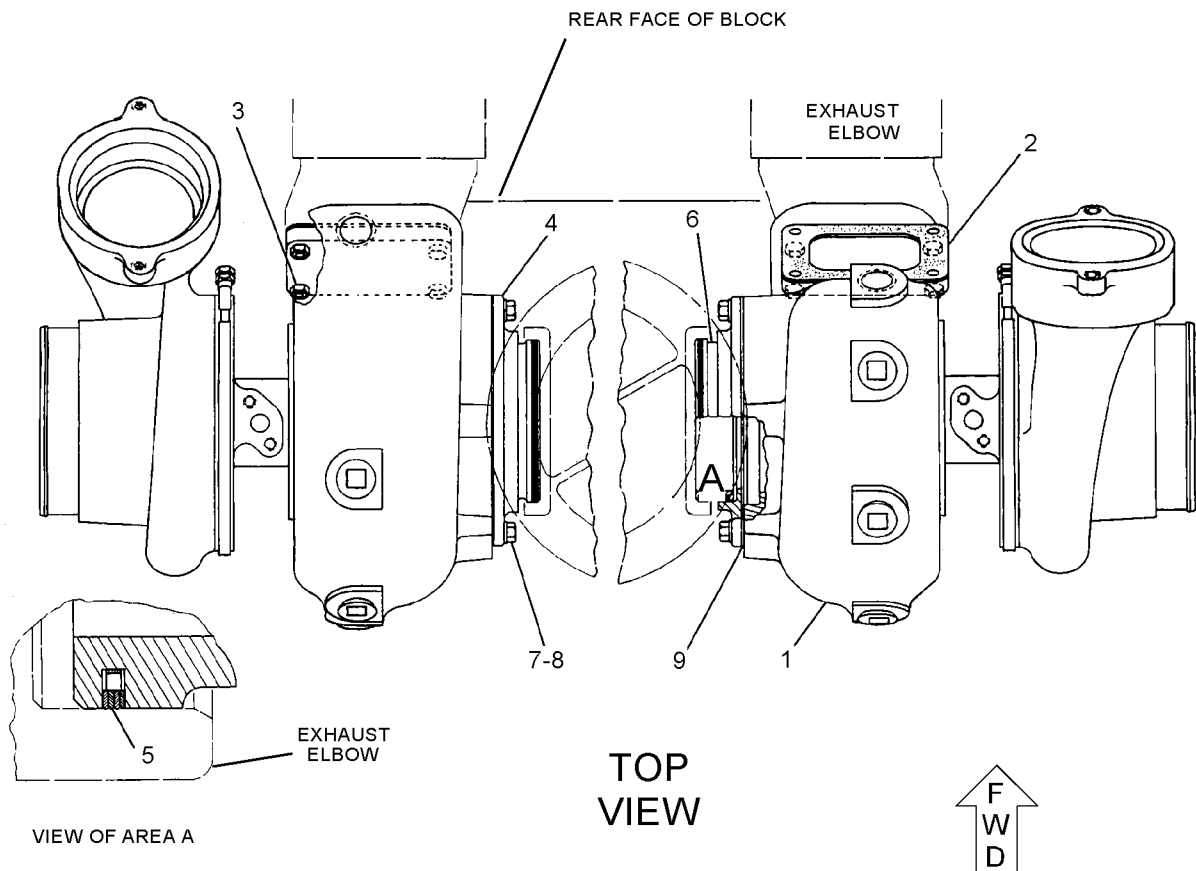
S/N: ZBA1-UP

SMCS-1052, 1053

i02230853

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
CY	1	1	257-2206	2	TURBOCHARGER GP						542
	2	1	121-5736	2	GASKET						
	3	1	168-7800	8	LOCKNUT (3/8-16-THD)						
	4	1	4W-1454	2	ADAPTER-EXHAUST						
	5	1	4W-1478	4	SEAL GP-EXHAUST						
	6	1	4W-1456	2	COUPLING-EXHAUST						
	7	1	0S-1594	8	BOLT (3/8-16X1-IN)						
	8	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	9	1	4W-2359	2	GASKET						

C- CHANGE FROM PREVIOUS TYPE
Y- SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01125787

AIR INLET AND EXHAUST SYSTEM

6I-1723 TURBOCHARGER GP

S/N: ZBA1-UP

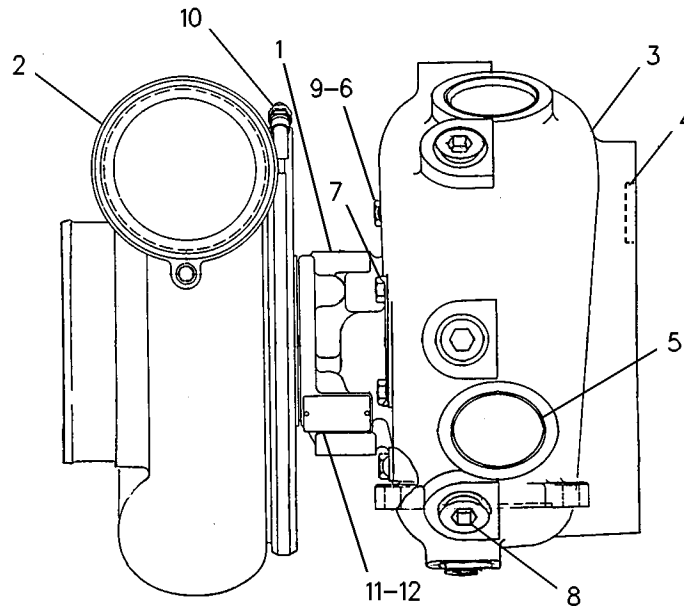
PART OF 6I-3959 TURBOCHARGER GP
AN ATTACHMENT

SMCS-1052, 1053

i00661307

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	7C-2860	1	CARTRIDGE GP-TURBOCHARGER	435
	2	1	7C-2862	1	HOUSING-COMPRESSOR	
	3	1	1W-7770	1	HOUSING AS-TURBINE	
	4	1	3B-0645	3	PLUG-CUP	
	5	1	4N-0932	4	PLUG-CUP	
	6	1	1N-3259	4	PLATE-LOCK	
	7	1	1N-3260	4	CLAMP	
	8	1	1B-5174	7	PLUG-PIPE	
	9	1	6V-2751	8	BOLT-HIGH TEMPERATURE (3/8-16X0.75-IN)	
	10	1	7W-2297	1	CLAMP AS (COMPRESSOR)	
		1	7M-9918	1	LOCKNUT (1/4-28-THD)	
	11	1	2F-0808	2	SCREW (NO 6X1/4-IN)	
	12	1	1W-4795	1	PLATE-IDENTIFICATION (TURBOCHARGER CARTRIDGE)	

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00229060

AIR INLET AND EXHAUST SYSTEM

6I-3959 TURBOCHARGER GP

S/N: ZBA1-UP

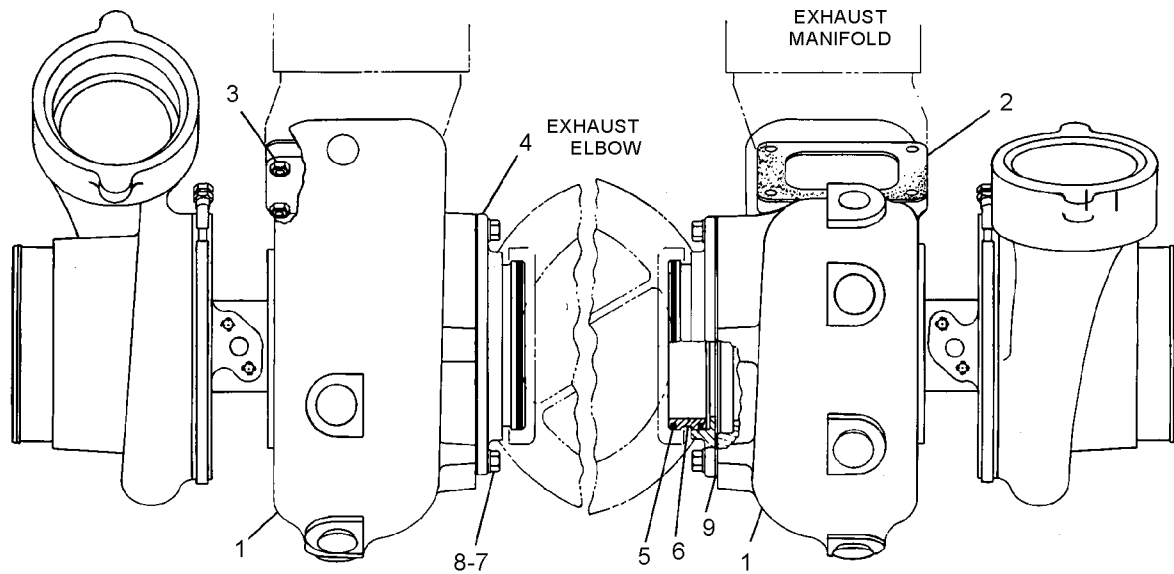
TYPE 1

SMCS-1052, 1053

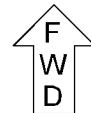
i02230860

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
CY	1	1	257-2205	2	TURBOCHARGER GP						541
	2	1	121-5736	2	GASKET						
	3	1	168-7800	8	LOCKNUT (3/8-16-THD)						
	4	1	4W-1454	2	ADAPTER-EXHAUST						
	5	1	4W-1478	4	SEAL GP-EXHAUST						
	6	1	4W-1456	2	COUPLING-EXHAUST						
	7	1	0S-1594	8	BOLT (3/8-16X1-IN)						
	8	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	9	1	4W-2359	2	GASKET						

C- CHANGE FROM PREVIOUS TYPE
Y- SEPARATE ILLUSTRATION



TOP VIEW



GRAPHIC #1

<END>

g01125808

AIR INLET AND EXHAUST SYSTEM

6I-3959 TURBOCHARGER GP

S/N: ZBA1-UP

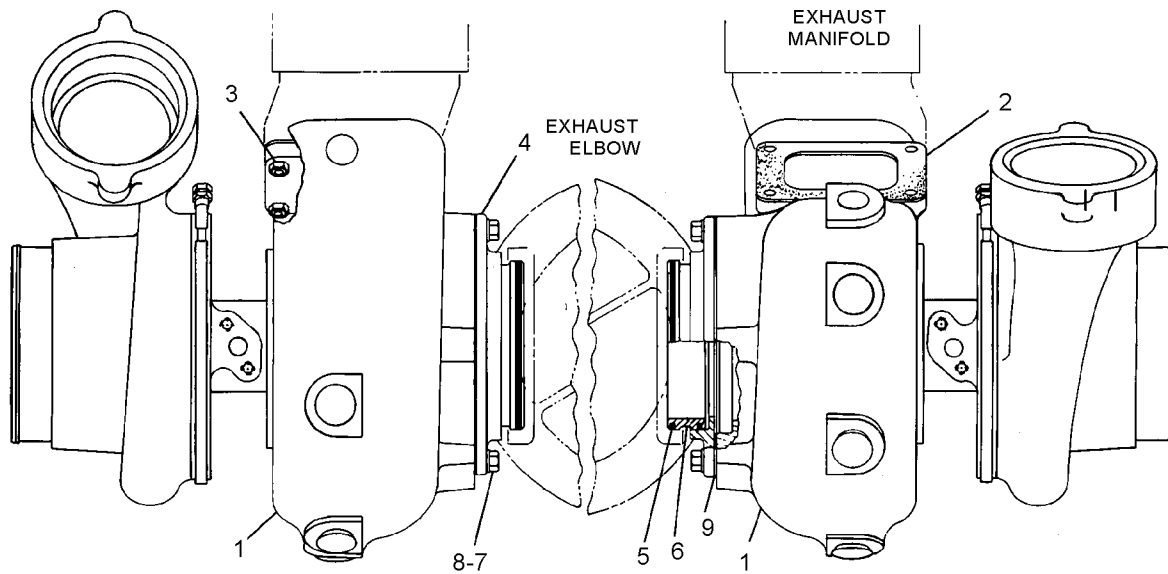
TYPE 2

SMCS-1052, 1053

i02300925

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
CY	1	1	102-0278	2	TURBOCHARGER GP	526
	2	1	121-5736	2	GASKET	
	3	1	168-7800	8	LOCKNUT (3/8-16-THD)	
	4	1	4W-1454	2	ADAPTER-EXHAUST	
	5	1	4W-1478	4	SEAL GP-EXHAUST	
	6	1	4W-1456	2	COUPLING-EXHAUST	
	7	1	0S-1594	8	BOLT (3/8-16X1-IN)	
	8	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	9	1	4W-2359	2	GASKET	

C- CHANGE FROM PREVIOUS TYPE
Y- SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01125808

AIR INLET AND EXHAUST SYSTEM

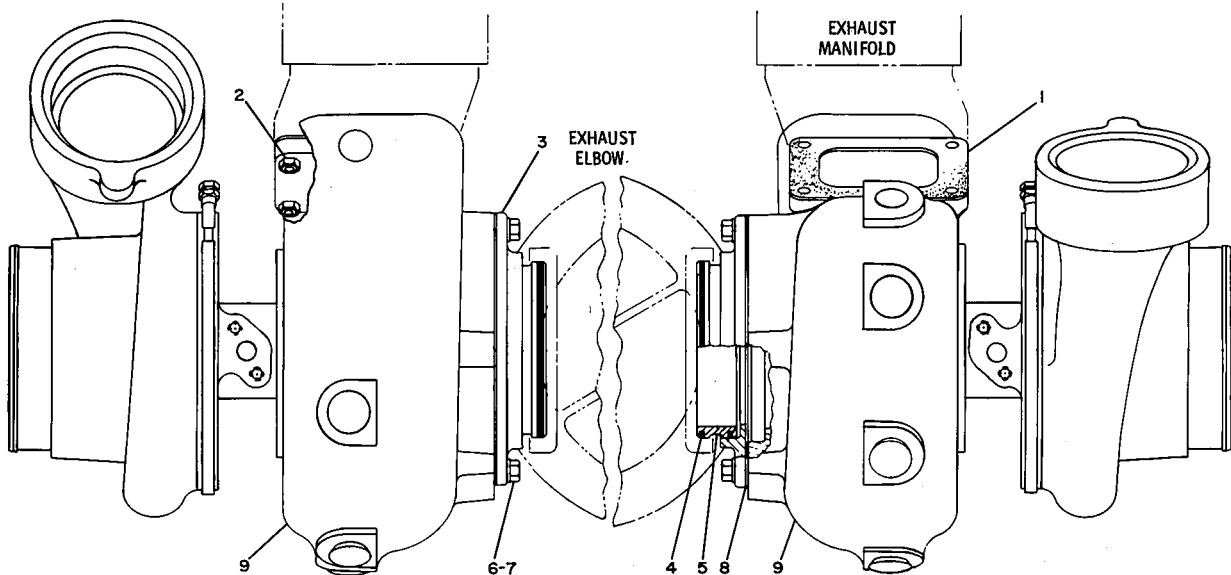
6I-3959 TURBOCHARGER GP

S/N: ZBA1-UP
AN ATTACHMENT
TYPE 3

SMCS-1052, 1053

i00661399

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	121-5736	1	GASKET - TURBOCHARGER						
	2	1	2N-2766	8	LOCKNUT (3/8-16 NPTF THD)						
	3	1	4W-1454	2	ADAPTER - EXHAUST						
	4	1	4W-1478	4	SEAL GP - EXHAUST						
	5	1	4W-1456	2	COUPLING - EXHAUST						
	6	1	0S-1594	8	BOLT (3/8-16X1IN)						
	7	1	5M-2894	8	WASHER (2.5MM THK)						
	8	1	4W-2359	2	GASKET - TURBOCHARGER						
Y	9	1	6I-1723	2	TURBOCHARGER GP						520
Y-SEPARATE ILLUSTRATION											



GRAPHIC #1

<END>

g00201308

AIR INLET AND EXHAUST SYSTEM

7E-6708 TURBOCHARGER GP

S/N: ZBA1-UP

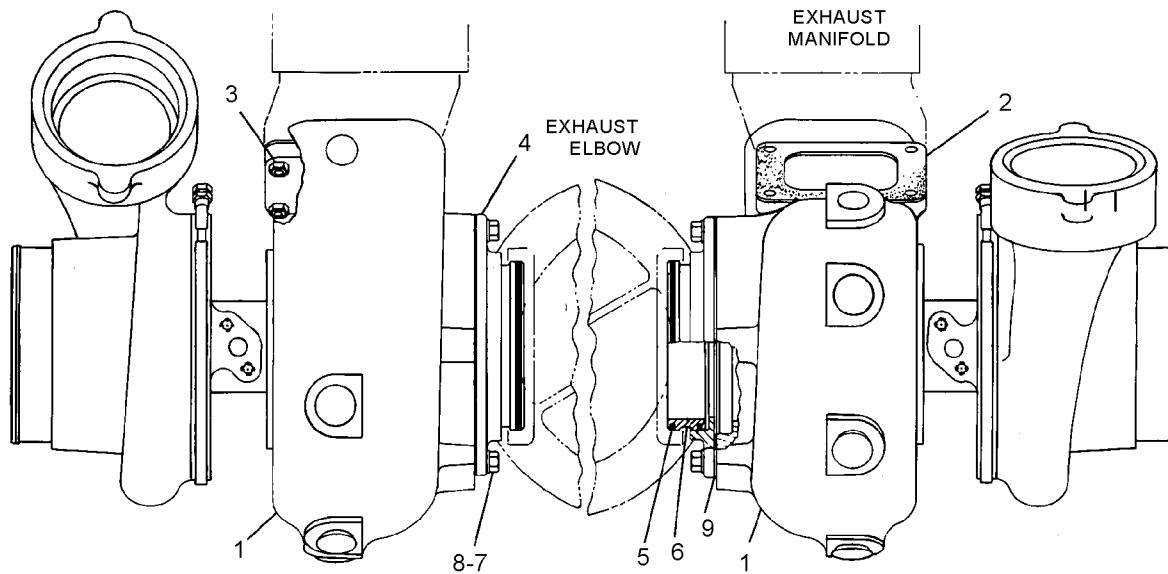
PART OF 112-5414 CONVERSION AR
ALSO AN ATTACHMENT

SMCS-1052, 1053

i02230861

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
CYR	1	1	102-0294	2	TURBOCHARGER GP	527
	2	1	121-5736	2	GASKET	
	3	1	168-7800	8	LOCKNUT (3/8-16-THD)	
	4	1	4W-1454	2	ADAPTER-EXHAUST	
	5	1	4W-1478	4	SEAL GP-EXHAUST	
	6	1	4W-1456	2	COUPLING-EXHAUST	
	7	1	0S-1594	8	BOLT (3/8-16X1-IN)	
	8	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	9	1	4W-2359	2	GASKET	

C- CHANGE FROM PREVIOUS TYPE
R- REMFG PART MAY BE AVAILABLE
Y- SEPARATE ILLUSTRATION



TOP VIEW

GRAPHIC #1

<END>

g01125808

AIR INLET AND EXHAUST SYSTEM

9Y-7034 TURBOCHARGER GP

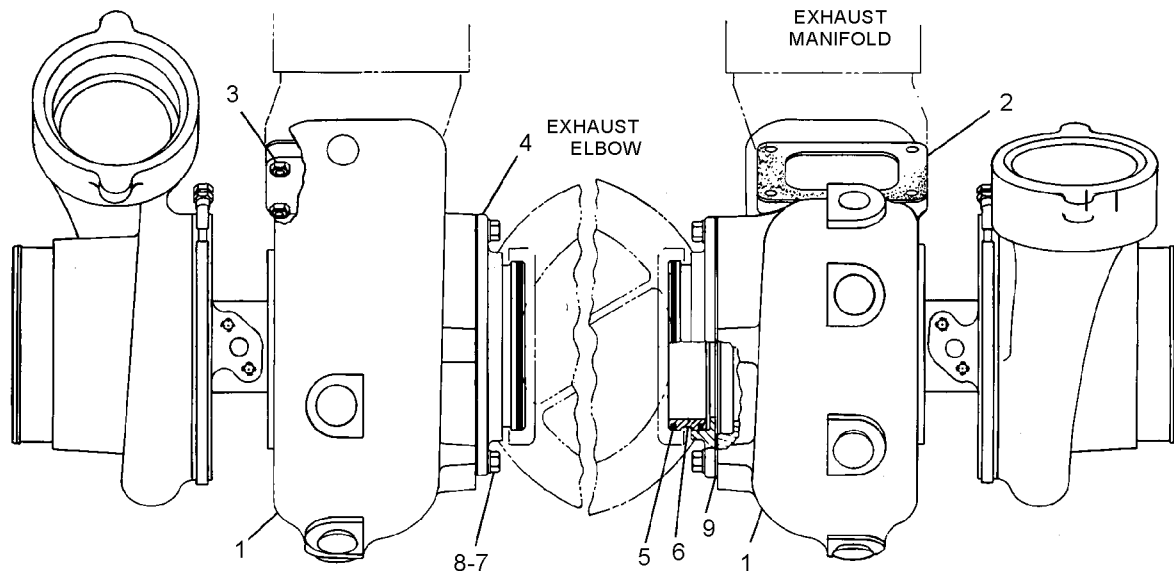
S/N: ZBA1-UP

SMCS-1052, 1053

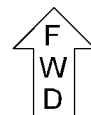
i02230822

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
CYR	1	1	121-4666	2	TURBOCHARGER GP						531
	2	1	121-5736	2	GASKET						
	3	1	168-7800	8	LOCKNUT (3/8-16-THD)						
	4	1	4W-1454	2	ADAPTER-EXHAUST						
	5	1	4W-1478	4	SEAL GP-EXHAUST						
	6	1	4W-1455	2	COUPLING-EXHAUST						
	7	1	0S-1594	8	BOLT (3/8-16X1-IN)						
	8	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	9	1	4W-2359	2	GASKET						

C- CHANGE FROM PREVIOUS TYPE
R- REMFG PART MAY BE AVAILABLE
Y- SEPARATE ILLUSTRATION



TOP VIEW



GRAPHIC #1

<END>

g01125808

AIR INLET AND EXHAUST SYSTEM

102-0278 TURBOCHARGER GP

S/N: ZBA1-UP

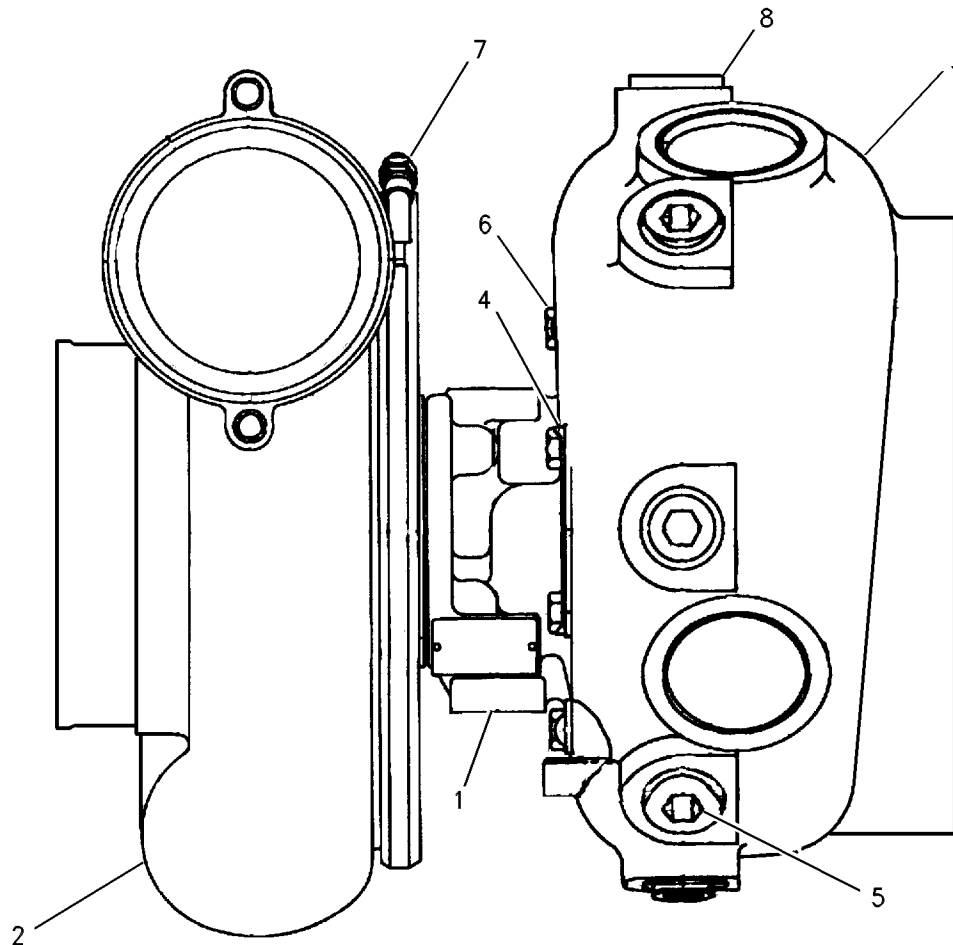
PART OF 6I-4412 CONVERSION AR-ENGINE, 6I-3959 TURBOCHARGER GP
ALSO AN ATTACHMENT

SMCS-1052, 1053

i02835409

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
CYR	1	1	107-8702	1	CARTRIDGE GP-TURBOCHARGER	439
	2	1	7C-2862	1	HOUSING-COMPRESSOR	
	3	1	1W-7770	1	HOUSING AS-TURBINE	
B		1	3B-0645	3	PLUG-CUP (STANDARD)	
B		1	3P-1896	3	PLUG-CUP (OPTIONAL)	
B		1	4N-0932	4	PLUG-CUP (STANDARD)	
B		1	100-6816	4	PLUG-CUP (OPTIONAL)	
	4	1	7E-8516	2	CLAMP (TURBINE)	
	5	1	7X-7731	6	PLUG-PIPE	
	6	1	6V-2751	8	BOLT-HIGH TEMPERATURE (3/8-16X0.75-IN)	
	7	1	7W-2297	1	CLAMP AS (COMPRESSOR)	
	8	1	8T-6761	1	PLUG-PIPE	

B-USE AS REQUIRED
C-CHANGE FROM PREVIOUS TYPE
R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00596090

AIR INLET AND EXHAUST SYSTEM

102-0294 TURBOCHARGER GP*R

S/N: ZBA1-UP

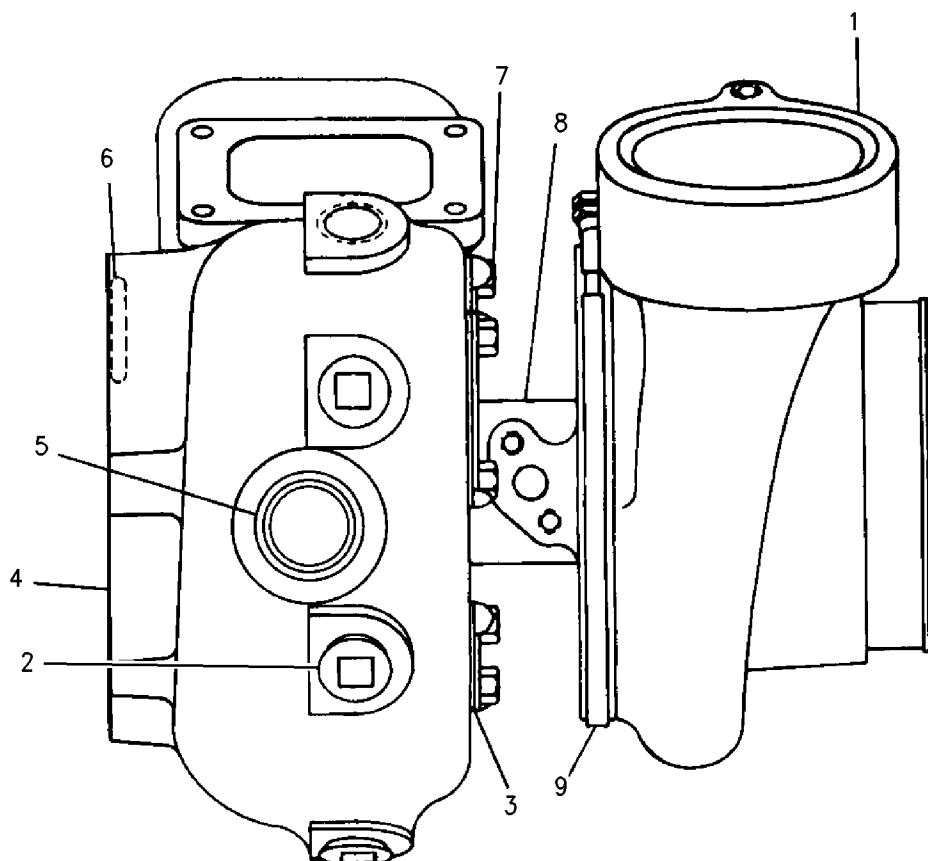
PART OF 7E-6708 TURBOCHARGER GP
ALSO AN ATTACHMENT

SMCS-1052, 1053

i01480319

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	7W-2299	1	HOUSING-COMPRESSOR	
	2	1	8T-6761	7	PLUG-PIPE	
	3	1	7E-8516	2	CLAMP	
	4	1	1W-7770	1	HOUSING AS-TURBINE	
	5	1	4N-0932	4	PLUG-CUP (STANDARD)	
					-OR-	
		1	100-6816	4	PLUG-CUP (ALTERNATE)	
	6	1	3B-0645	3	PLUG-CUP (STANDARD)	
					-OR-	
		1	3P-1896	3	PLUG-CUP (ALTERNATE)	
	7	1	6V-2751	8	BOLT-HIGH TEMPERATURE (3/8-16X0.75-IN)	
YR	8	1	100-4095	1	CARTRIDGE GP-TURBOCHARGER	437
	9	1	7W-2297	1	CLAMP AS (COMPRESSOR)	
		1	7M-9918	1	LOCKNUT (1/4-28-THD)	

R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00703333

AIR INLET AND EXHAUST SYSTEM

102-0296 TURBOCHARGER GP*R

S/N: ZBA1-UP

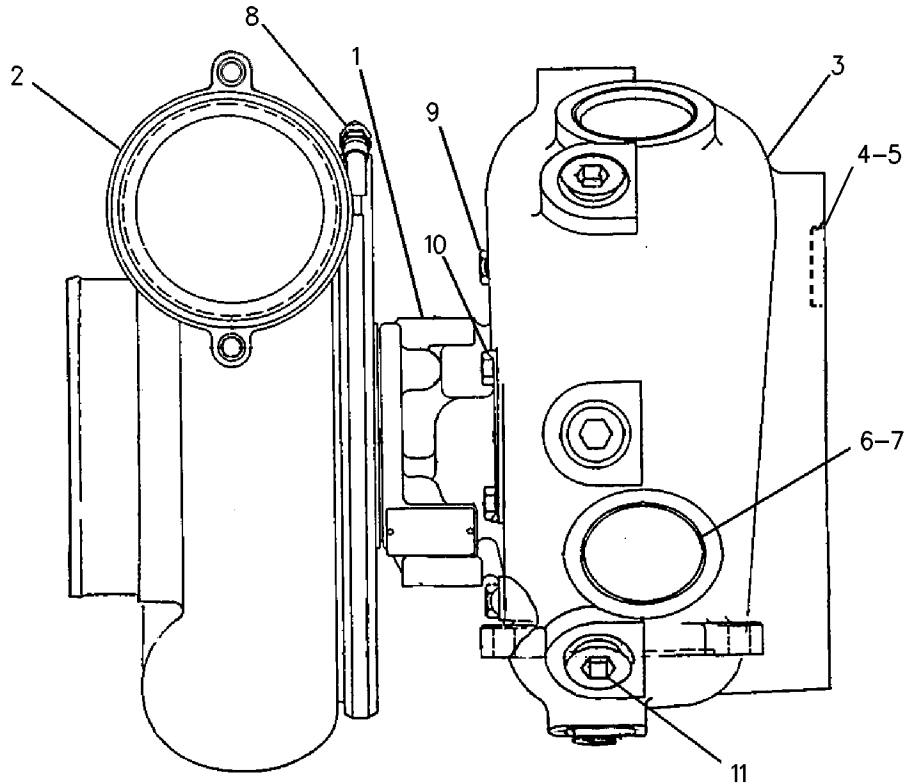
PART OF 113-1154 TURBOCHARGER GP

SMCS-1052, 1053

i02868483

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
YR	1	1	100-4095	1	CARTRIDGE GP-TURBOCHARGER						437
	2	1	7W-2299	1	HOUSING-COMPRESSOR						
	3	1	1W-0443	1	HOUSING AS-TURBINE						
	4	1	3B-0645	3	PLUG-CUP (STANDARD)						
	5	1	3P-1896	3	PLUG-CUP (OPTIONAL)						
	6	1	4N-0932	4	PLUG-CUP (STANDARD)						
	7	1	100-6816	4	PLUG-CUP (OPTIONAL)						
	8	1	7W-2297	1	CLAMP AS (COMPRESSOR)						
		1	7M-9918	1	LOCKNUT (1/4-28-THD)						
	9	1	6V-2751	8	BOLT-HIGH TEMPERATURE (3/8-16X0.75-IN)						
	10	1	7E-8516	2	CLAMP (TURBINE)						
	11	1	8T-6761	7	PLUG-PIPE						

R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00703009

AIR INLET AND EXHAUST SYSTEM

107-4654 TURBOCHARGER GP

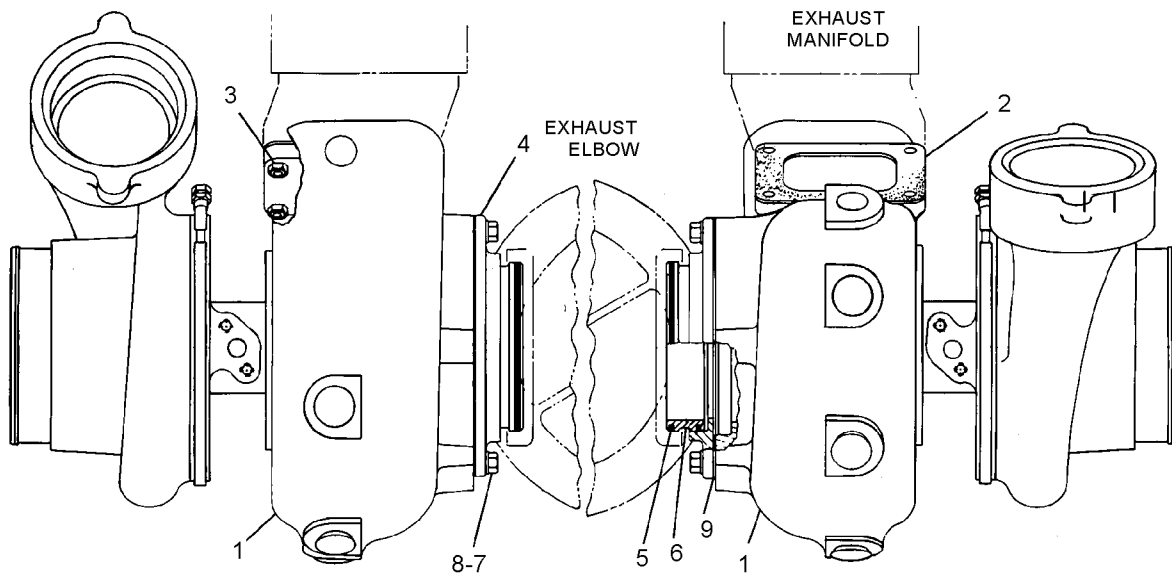
S/N: ZBA1-UP

SMCS-1052, 1053

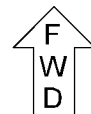
i02230826

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	123-6478	2	TURBOCHARGER GP						534
	2	1	121-5736	2	GASKET						
	3	1	168-7800	8	LOCKNUT (3/8-16-THD)						
	4	1	4W-1454	2	ADAPTER-EXHAUST						
	5	1	4W-1478	4	SEAL GP-EXHAUST						
	6	1	4W-1456	2	COUPLING-EXHAUST						
	7	1	0S-1594	8	BOLT (3/8-16X1-IN)						
	8	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	9	1	4W-2359	2	GASKET						

Y-SEPARATE ILLUSTRATION



TOP VIEW



GRAPHIC #1

<END>

g01125808

AIR INLET AND EXHAUST SYSTEM

113-1154 TURBOCHARGER GP

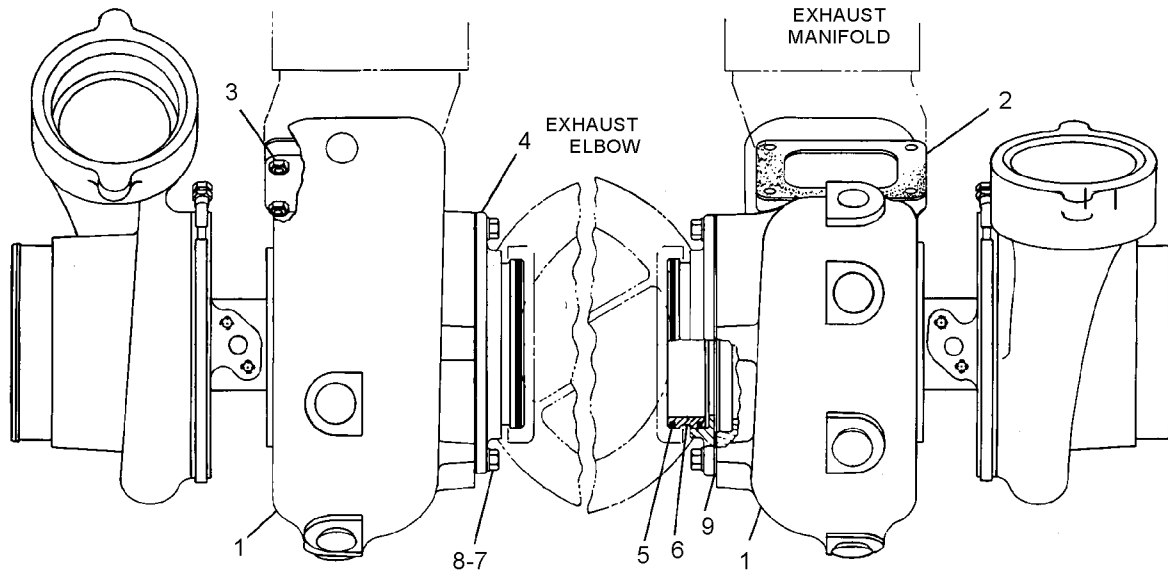
S/N: ZBA1-UP

SMCS-1052, 1053

i02230829

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
CYR	1	1	102-0296	2	TURBOCHARGER GP						528
	2	1	121-5736	2	GASKET						
	3	1	168-7800	8	LOCKNUT (3/8-16-THD)						
	4	1	4W-1454	2	ADAPTER-EXHAUST						
	5	1	4W-1478	4	SEAL GP-EXHAUST						
	6	1	4W-1456	2	COUPLING-EXHAUST						
	7	1	0S-1594	8	BOLT (3/8-16X1-IN)						
	8	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	9	1	4W-2359	2	GASKET						

C- CHANGE FROM PREVIOUS TYPE
R- REMFG PART MAY BE AVAILABLE
Y- SEPARATE ILLUSTRATION



TOP VIEW



GRAPHIC #1

<END>

g01125808

AIR INLET AND EXHAUST SYSTEM

121-4666 TURBOCHARGER GP*R

S/N: ZBA1-UP

PART OF 9Y-7034 TURBOCHARGER GP

SMCS-1052, 1053

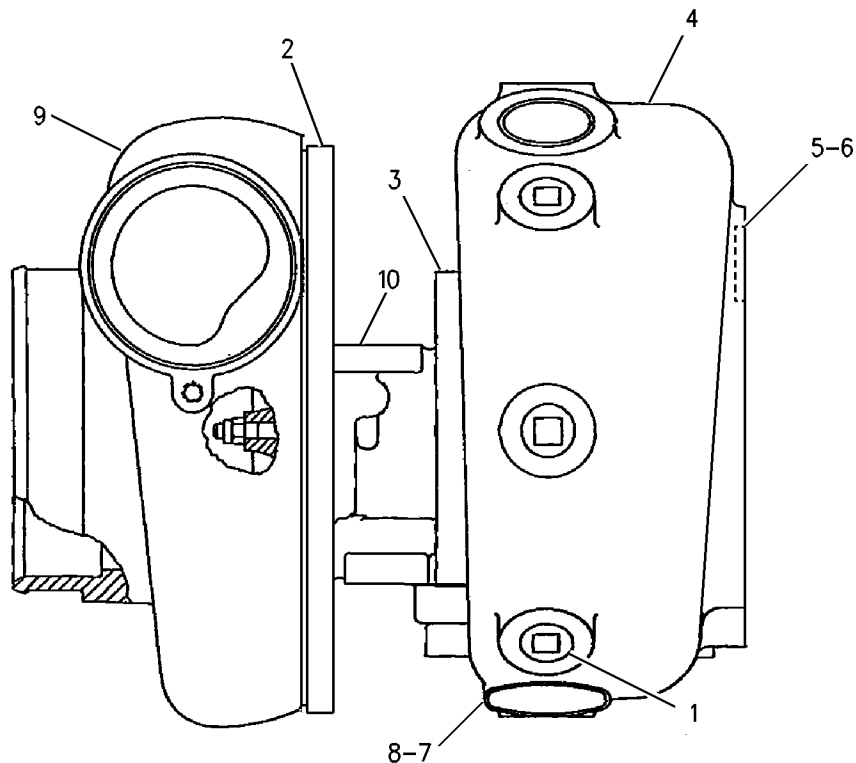
i01334449

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	1B-5174	7	PLUG-PIPE	
	2	1	1N-3279	1	CLAMP AS (COMPRESSOR)	
		1	7M-9918	1	LOCKNUT (1/4-28-THD)	
	3	1	9N-2038	1	CLAMP AS-TURBINE	
		1	7M-9918	1	LOCKNUT (1/4-28-THD)	
	4	1	7C-6708	1	HOUSING AS-TURBINE	
B	5	1	3B-0645	3	PLUG-CUP	
B	6	1	3P-1896	3	PLUG-CUP	
B	7	1	4N-0932	4	PLUG-CUP	
B	8	1	100-6816	4	PLUG-CUP	
	9	1	9Y-7012	1	HOUSING-COMPRESSOR	
YR	10	1	109-3856	1	CARTRIDGE GP-TURBOCHARGER	441

B-USE AS REQUIRED

R-REMFG PART MAY BE AVAILABLE

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00705696

AIR INLET AND EXHAUST SYSTEM

121-7549 TURBOCHARGER GP

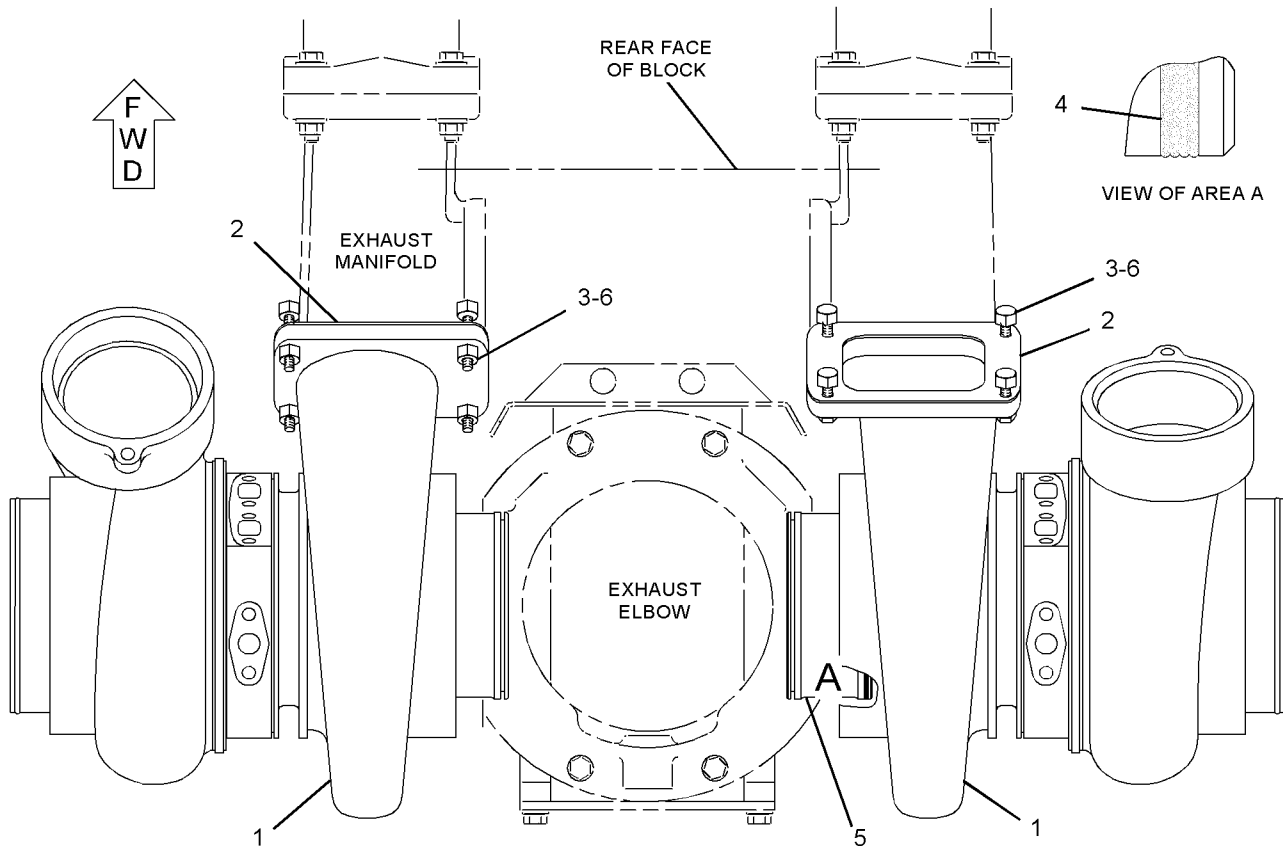
S/N: ZBA1-UP

SMCS-1052, 1053

i02230835

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	123-6476	2	TURBOCHARGER GP						533
	2	1	121-5736	2	GASKET						
	3	1	2N-2765	8	BOLT-HIGH TEMPERATURE (3/8-16X1.75-IN)						
	4	1	4W-1478	4	SEAL GP-EXHAUST						
	5	1	121-7529	2	COUPLING						
	6	1	168-7800	8	LOCKNUT (3/8-16-THD)						

Y-SEPARATE ILLUSTRATION



TOP VIEW

GRAPHIC #1

<END>

g01125897

AIR INLET AND EXHAUST SYSTEM

123-6476 TURBOCHARGER GP

S/N: ZBA1-UP

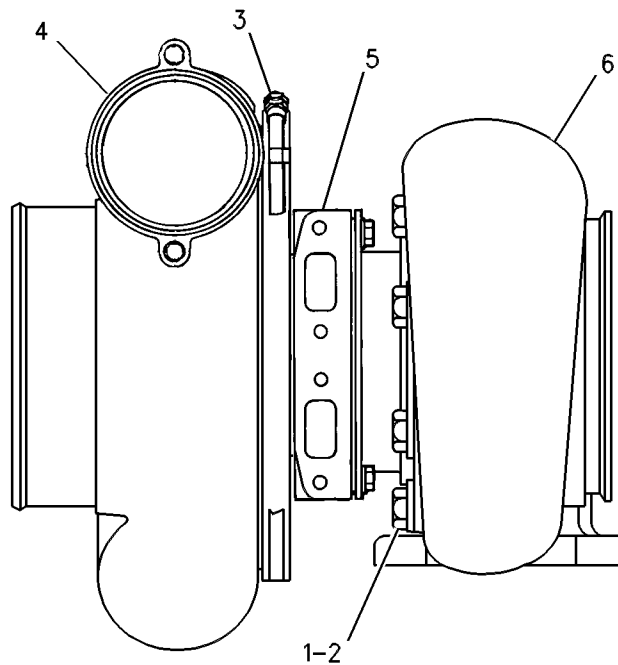
PART OF 121-7549 TURBOCHARGER GP

SMCS-1052, 1053

i01113231

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6V-2751	8	BOLT-HIGH TEMPERATURE						
	2	1	7E-8516	2	CLAMP (TURBINE)						
	3	1	7W-2297	1	CLAMP AS (COMPRESSOR)						
	4	1	7W-2299	1	HOUSING-COMPRESSOR						
R	5	1	102-0302	1	CARTRIDGE GP-TURBOCHARGER						
	6	1	123-6477	1	HOUSING-TURBINE						

R-REMFG PART MAY BE AVAILABLE



GRAPHIC #1

<END>

g00561508

AIR INLET AND EXHAUST SYSTEM

123-6478 TURBOCHARGER GP

S/N: ZBA1-UP

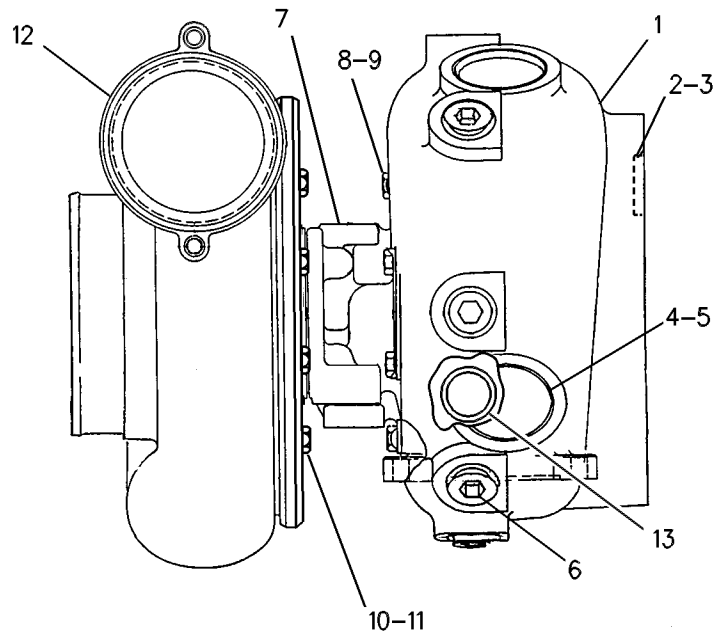
PART OF 107-4654 TURBOCHARGER GP

SMCS-1052, 1053

i02374472

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	1W-0443	1	HOUSING AS-TURBINE	
	2	1	3B-0645	3	PLUG-CUP	
	3	1	3P-1896	3	PLUG-CUP	
	4	1	4N-0932	4	PLUG-CUP	
	5	1	100-6816	4	PLUG-CUP	
	6	1	7X-7731	6	PLUG-PIPE	
YR	7	1	125-5379	1	CARTRIDGE GP-TURBOCHARGER	442
	8	1	3S-5126	8	BOLT-HIGH TEMPERATURE (3/8-16X0.625-IN)	
	9	1	7E-8516	2	CLAMP	
	10	1	125-5375	8	BOLT (3/8X16X1.75-IN)	
	11	1	125-5376	4	PLATE-CLAMP (COMPRESSOR)	
	12	1	245-8451	1	HOUSING AS-COMPRESSOR	
	13	1	8T-6761	1	PLUG-PIPE	

R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00569926

AIR INLET AND EXHAUST SYSTEM

167-7411 TURBOCHARGER GP

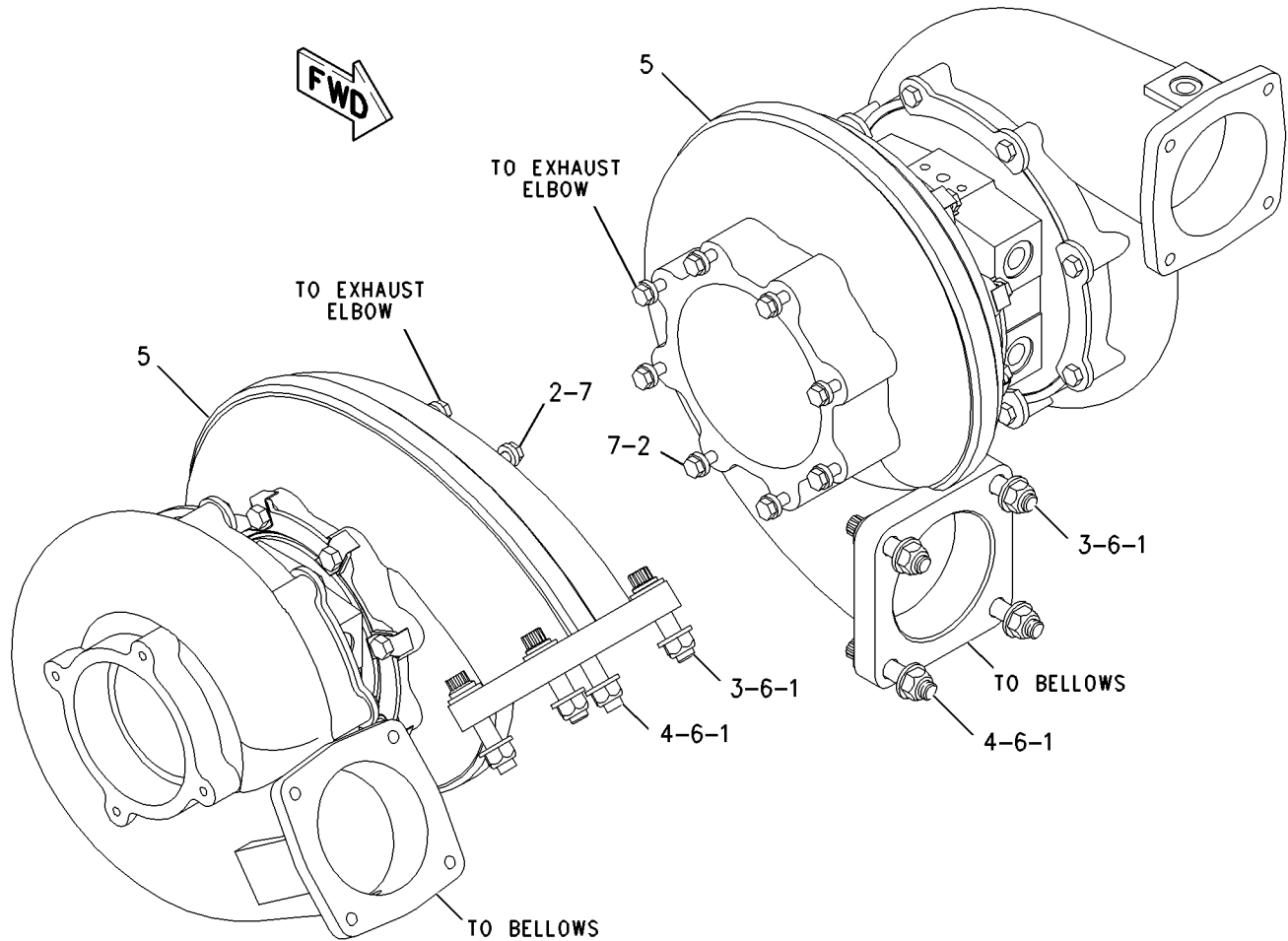
S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1052, 1053

i01678963

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	6V-4605	8	LOCKNUT (5/8-11THD)	
M	2	1	8C-8581	16	BOLT-HIGH TEMPERATURE (M10X1.5X30MM)	
	3	1	162-6466	4	BOLT-12 POINT HEAD (5/8-11X2.75IN)	
	4	1	168-2103	4	BOLT-12 POINT HEAD (5/8-11X3.0IN)	
Y	5	1	207-5250	2	TURBOCHARGER GP	539
	6	1	5P-8247	16	WASHER-HARD (17X32X3.5MM THK)	
	7	1	8T-7934	16	WASHER-HARD (11X21X5MM THK)	

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00877115

AIR INLET AND EXHAUST SYSTEM

171-2326 TURBOCHARGER GP

S/N: ZBA1-UP

MARINE

PART OF 217-3845 TURBOCHARGER GP
FOR USE WITH NI-RESIST TURBINE HOUSING

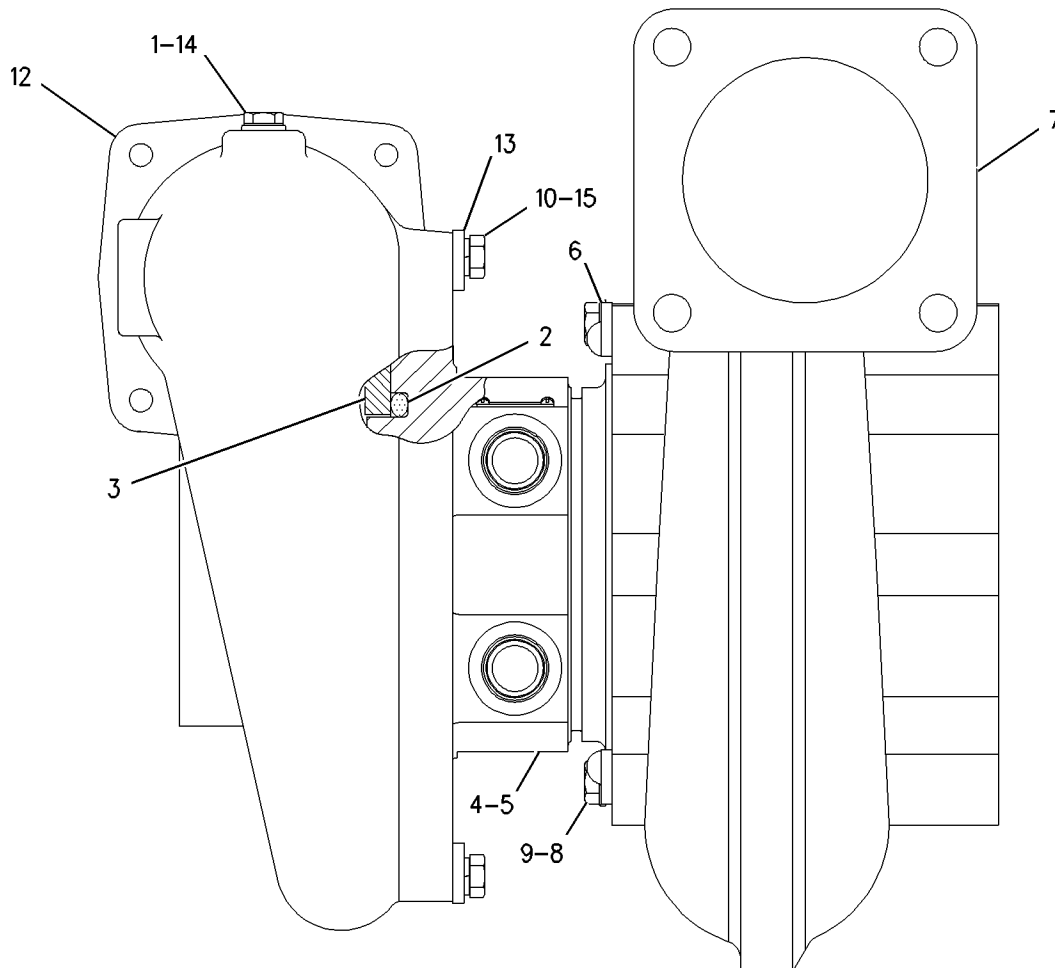
SMCS-1052, 1053

i01770745

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4W-9027	1	GASKET						
	2	1	6V-5055	1	SEAL-O-RING						
	3	1	9Y-1696	1	DIFFUSER						
	4	1	174-4454	1	SEAL-O-RING						
Y	5	1	177-4166	1	CARTRIDGE GP-TURBOCHARGER						446
	6	1	2W-1248	4	CLAMP						
	7	1	206-3901	1	HOUSING						
M	8	1	7X-0409	8	BOLT-HIGH TEMPERATURE (M10X1.5X20-MM)						
	9	1	9L-3899	8	LOCK						
M	10	1	6V-4248	8	BOLT (M10X1.5X25-MM)						
	12	1	9Y-1692	1	HOUSING-COMPRESSOR						
	13	1	9Y-1699	4	CLAMP						
	14	1	4W-9029	1	PLUG						
	15	1	7X-0796	8	LOCKWASHER						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00905266

AIR INLET AND EXHAUST SYSTEM

200-6456 TURBOCHARGER GP

S/N: ZBA1-UP

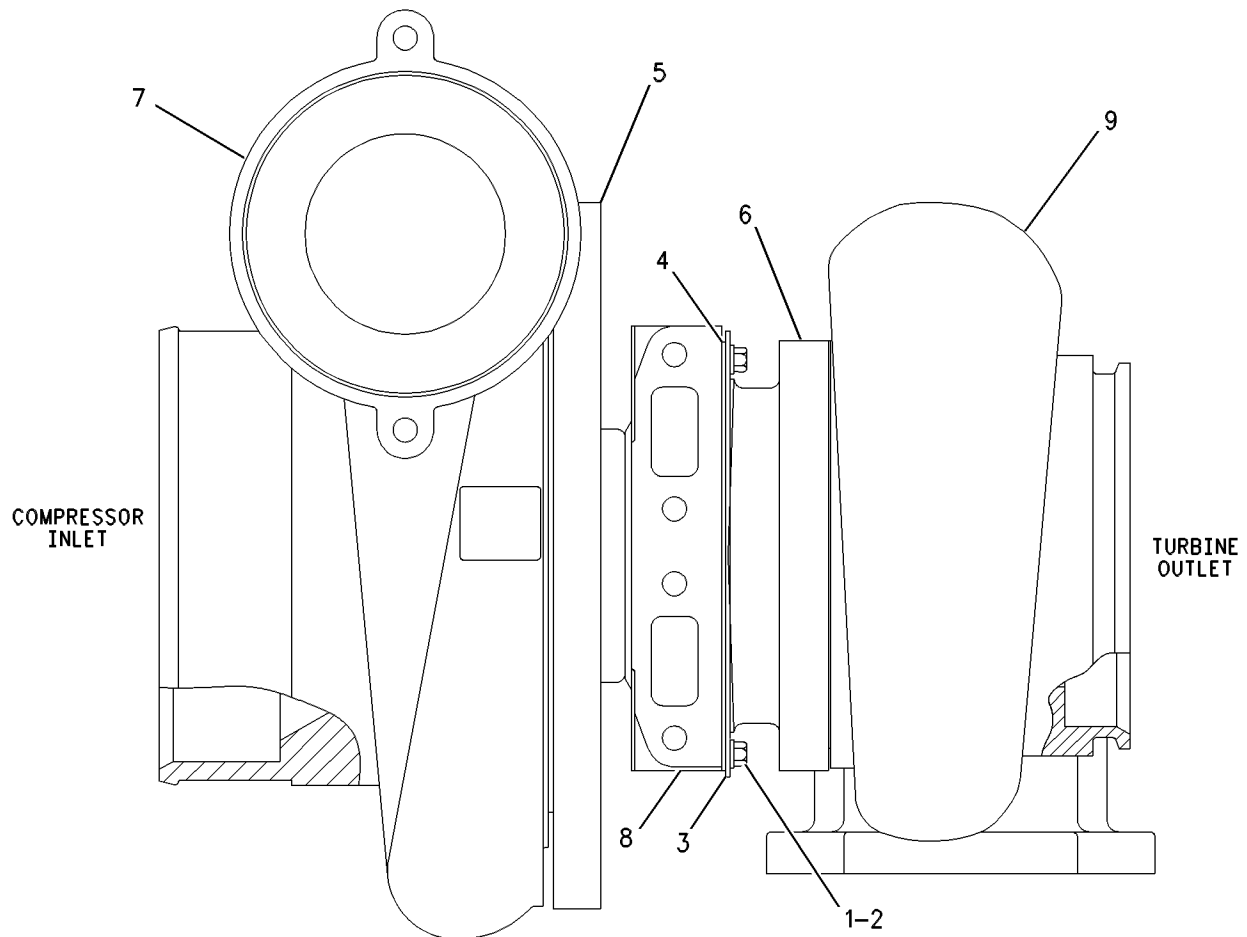
PART OF 201-6884 TURBOCHARGER GP

SMCS-1052, 1053

i02835777

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2A-0762	4	BOLT (1/4-20X0.625-IN)						
	2	1	5P-0537	4	WASHER-HARD (7.2X14.5X2-MM THK)						
	3	1	7N-7672	2	PLATE						
	4	1	7N-7673	2	PLATE						
	5	1	7W-2297	1	CLAMP AS (COMPRESSOR)						
		1	7M-9918	1	LOCKNUT (1/4-28-THD)						
	6	1	9N-2038	1	CLAMP AS-TURBINE						
		1	7M-9918	1	LOCKNUT (1/4-28-THD)						
	7	1	246-5826	1	COVER-COMPRESSOR						
R	8	1	146-9173	1	CARTRIDGE GP-TURBOCHARGER						
	9	1	200-6452	1	HOUSING (TURBINE)						

R-REMFG PART MAY BE AVAILABLE



GRAPHIC #1

<END>

g00535915

AIR INLET AND EXHAUST SYSTEM

201-6884 TURBOCHARGER GP

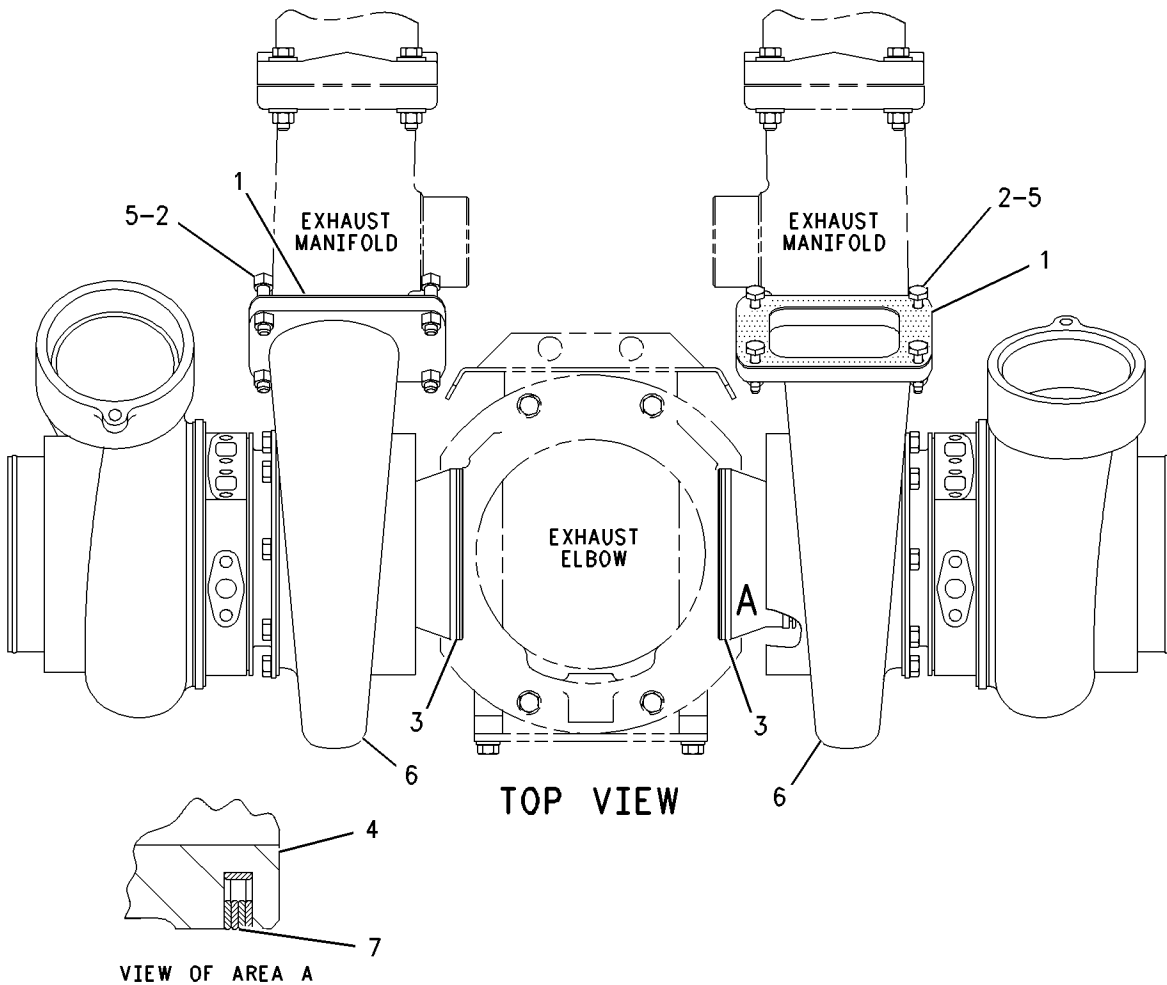
S/N: ZBA1-UP

SMCS-1052, 1053

i01820777

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	178-2439	2	SEAL AS						
	2	1	222-3674	8	BOLT (3/8-16X1.75 IN)						
	3	1	4W-1478	2	SEAL GP-EXHAUST						
	4	1	203-2439	2	COUPLING						
	5	1	222-3675	8	LOCKNUT						
Y	6	1	200-6456	2	TURBOCHARGER GP						537
	7	1	219-3234	2	SEAL GP-EXHAUST						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00882368

AIR INLET AND EXHAUST SYSTEM

207-5250 TURBOCHARGER GP

S/N: ZBA1-UP

PART OF 167-7411 TURBOCHARGER GP
AN ATTACHMENT

SMCS-1052, 1053

i01678983

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
M	6V-4248	8	BOLT (M10X1.5X25-MM)						
M	7X-0409	8	BOLT-HIGH TEMPERATURE (M10X1.5X20-MM)						
Y	173-1937	1	CARTRIDGE GP-TURBOCHARGER						444
	2W-1248	4	CLAMP (TURBINE HOUSING)						
	9Y-1699	4	CLAMP (COMPRESSOR HOUSING)						
	9Y-1698	1	DIFFUSER						
	4W-9027	1	GASKET						
	9Y-1692	1	HOUSING-COMPRESSOR						
	206-3901	1	HOUSING						
	9L-3899	8	LOCK						
	7X-0796	8	LOCKWASHER						
	4W-9029	1	PLUG						
	8H-3710	4	SCREW-TAPPING (6-32-THDX0.38-IN)						
	6V-5055	1	SEAL-O-RING						
	174-4454	1	SEAL-O-RING						
M-METRIC PART									
Y-SEPARATE ILLUSTRATION									

<END>

AIR INLET AND EXHAUST SYSTEM

217-3845 TURBOCHARGER GP

S/N: ZBA1-UP

ABB TURBOS

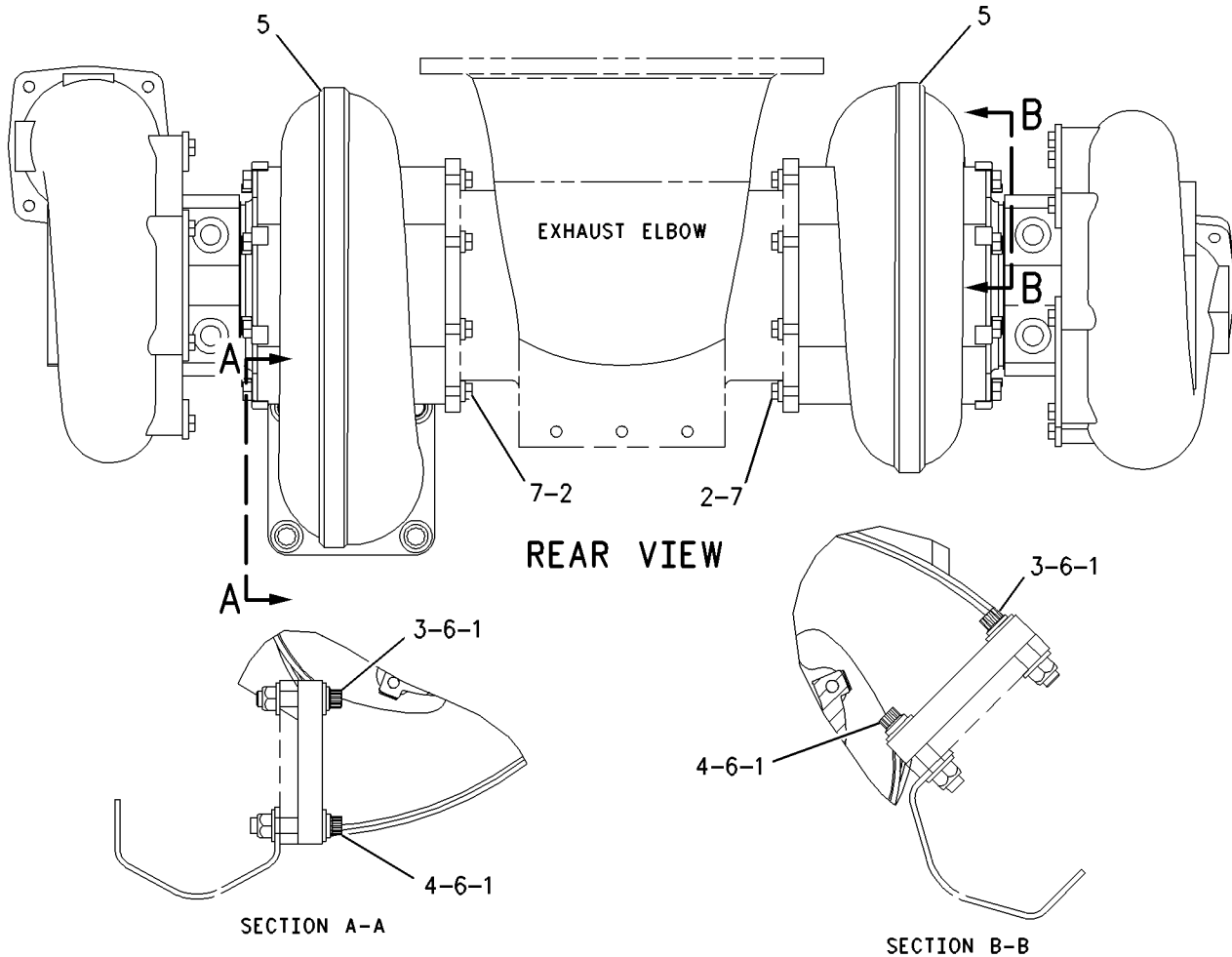
SMCS-1052, 1053

i01738947

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6V-4605	8	LOCKNUT (5/8-11THD)						
M	2	1	8C-8581	16	BOLT-HIGH TEMPERATURE (M10X1.5X30MM)						
	3	1	162-6466	4	BOLT-12 POINT HEAD (5/8-11X2.75IN)						
	4	1	168-2103	4	BOLT-12 POINT HEAD (5/8-11X3.0IN)						
Y	5	1	171-2326	2	TURBOCHARGER GP						536
	6	1	5P-8247	16	WASHER-HARD (17X32X3.5MM THK)						
	7	1	8T-7934	16	WASHER-HARD (11X21X5MM THK)						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00929288

AIR INLET AND EXHAUST SYSTEM

257-2205 TURBOCHARGER GP

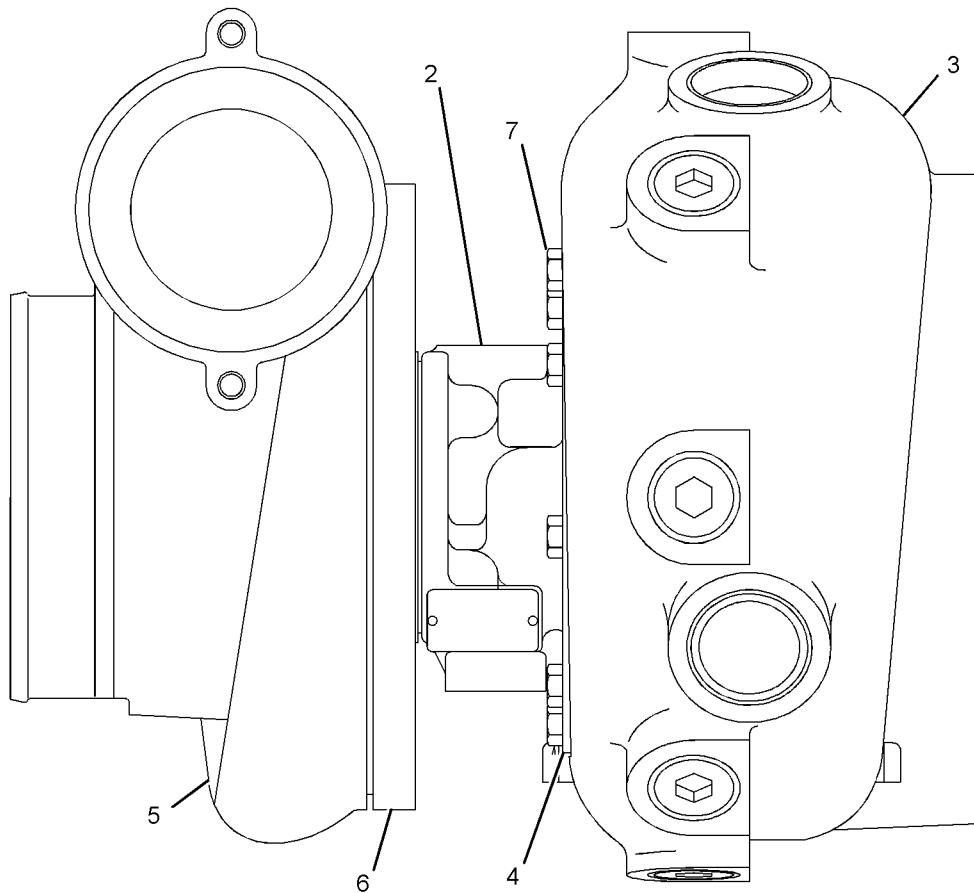
S/N: ZBA1-UP

PART OF 6I-3959 TURBOCHARGER GP

SMCS-1052, 1053

i02366368

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	2	1	257-4974	1	CARTRIDGE GP - TURBOCHARGER						
	3	1	1W-7770	1	HOUSING AS - TURBINE						
		1	100-6816	4	PLUG-CUP (ALT 60.32-MM OD)						
		1	3B-0645	3	PLUG-CUP (STD 31.75-MM OD)						
		1	3P-1896	3	PLUG-CUP (ALT 34.92-MM OD)						
		1	4N-0932	4	PLUG-CUP (STD 57.15-MM OD)						
	4	1	7E-8516	2	CLAMP						
	5	1	7C-2862	1	HOUSING-COMPRESSOR						
	6	1	7W-2297	1	CLAMP AS (COMPRESSOR)						
	7	1	6V-2751	8	BOLT-HIGH TEMPERATURE (3/8-16X0.75-IN)						



GRAPHIC #1

<END>

g01123734

AIR INLET AND EXHAUST SYSTEM

257-2206 TURBOCHARGER GP

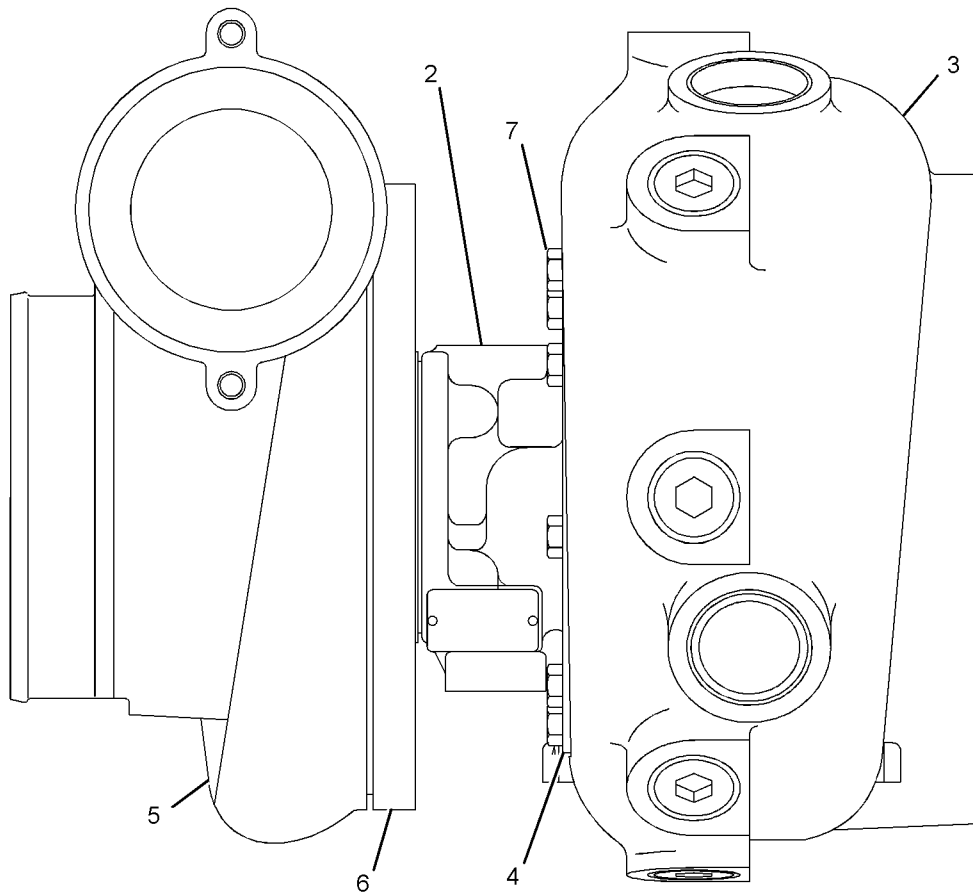
S/N: ZBA1-UP

PART OF 4P-4606 TURBOCHARGER GP

SMCS-1052, 1053

i02366369

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	2	1	257-4974	1	CARTRIDGE GP-TURBOCHARGER						
	3	1	4P-4605	1	HOUSING AS-TURBINE						
		1	3B-0645	3	PLUG-CUP (STD 31.75-MM OD)						
		1	3P-1896	3	PLUG-CUP (ALT 34.92-MM OD)						
		1	4N-0932	4	PLUG-CUP (STD 57.15-MM OD)						
		1	100-6816	4	PLUG-CUP (ALT 60.32-MM OD)						
	4	1	7E-8516	2	CLAMP						
	5	1	7C-2862	1	HOUSING-COMPRESSOR						
	6	1	7W-2297	1	CLAMP AS (COMPRESSOR)						
	7	1	6V-2751	8	BOLT-HIGH TEMPERATURE (3/8-16X0.75-IN)						



GRAPHIC #1

<END>

g01123734

AIR INLET AND EXHAUST SYSTEM

4W-5424 VALVE GP-AIR CONTROL

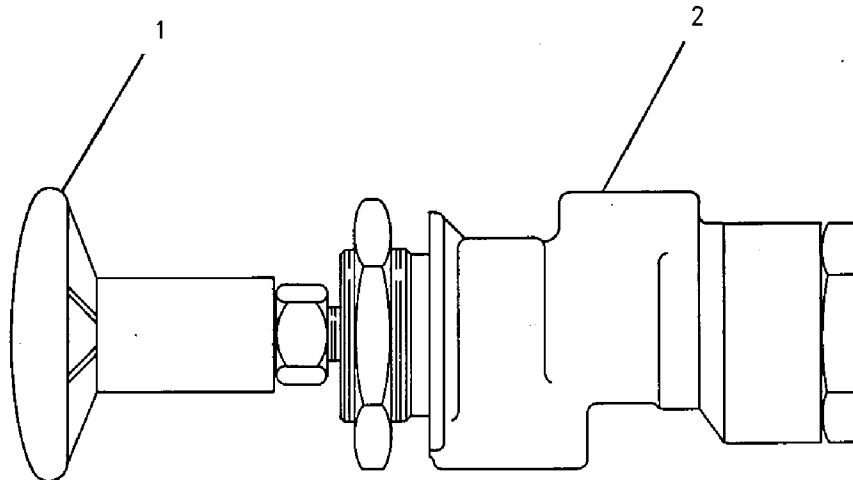
S/N: ZBA1-UP

PART OF 4W-7203, 4W-7209 CONTROL GP-AIR STARTING
AN ATTACHMENT

SMCS-1462

i01878808

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-0629	1	KNOB-ENGINE START						
	2	1	2W-6820	1	VALVE-CONTROL (AIR)						



GRAPHIC #1

<END>

g00741020

AIR INLET AND EXHAUST SYSTEM

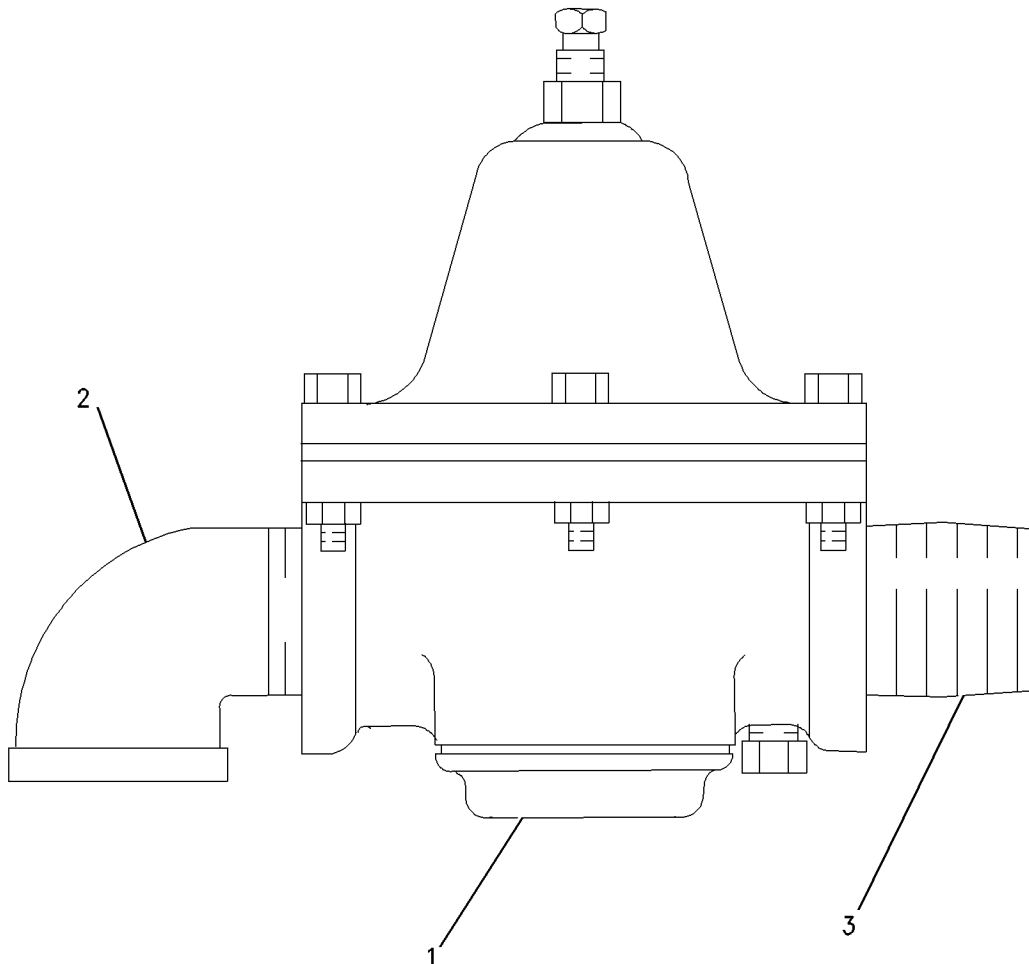
8N-8483 VALVE GP-AIR CONTROL-RH

S/N: ZBA1-UP
FOR USE WITH AIR START SYSTEM
AN ATTACHMENT

SMCS-1462

i01192123

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	1L -2073	1	VALVE GP -PRESSURE REDUCING	979
	2	1	5B-7666	1	ELBOW	
	3	1	3L -8993	1	NIPPLE - CLOSE	
Y-SEPARATE ILLUSTRATION						



GRAPHIC #1

<END>

g00637864

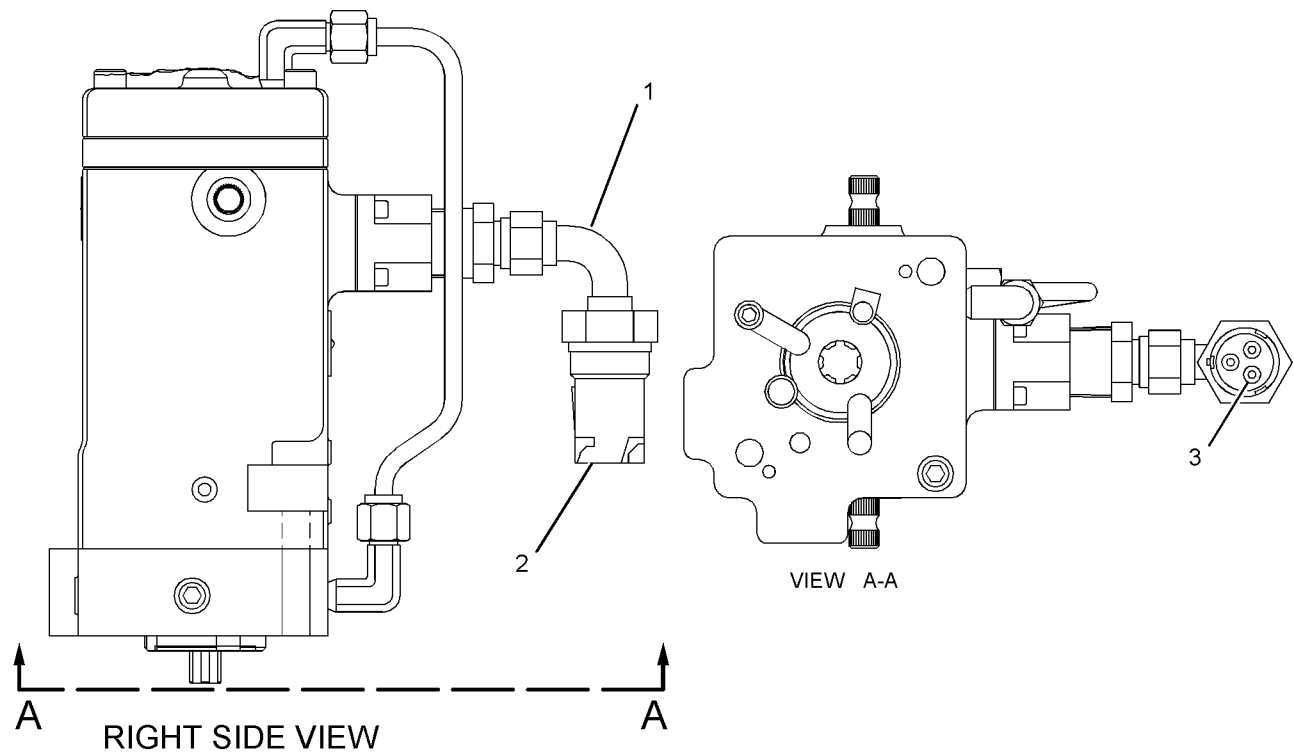
FUEL SYSTEM

118-7590 ACTUATOR AS*R
S/N: ZBA1-UP
PART OF 118-7591 GOVERNOR GP-ELECTRONIC
AN ATTACHMENT
TYPE 1

SMCS-1716

i02228264

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	109-8855	1	CONDUIT AS						
	2	1	8T-8732	1	RECEPTACLE (3-PIN)						
	3	1	186-3735	3	PIN-CONNECTOR (16-GA TO 18-GA)						



GRAPHIC #1

<END>

g01124653

FUEL SYSTEM

118-7590 ACTUATOR AS*R

S/N: ZBA1-UP

PART OF 108-4886 ACTUATOR GP-GOVERNOR, 107-4471 GOVERNOR GP-ELECTRIC, 118-7591

GOVERNOR GP-ELECTRONIC

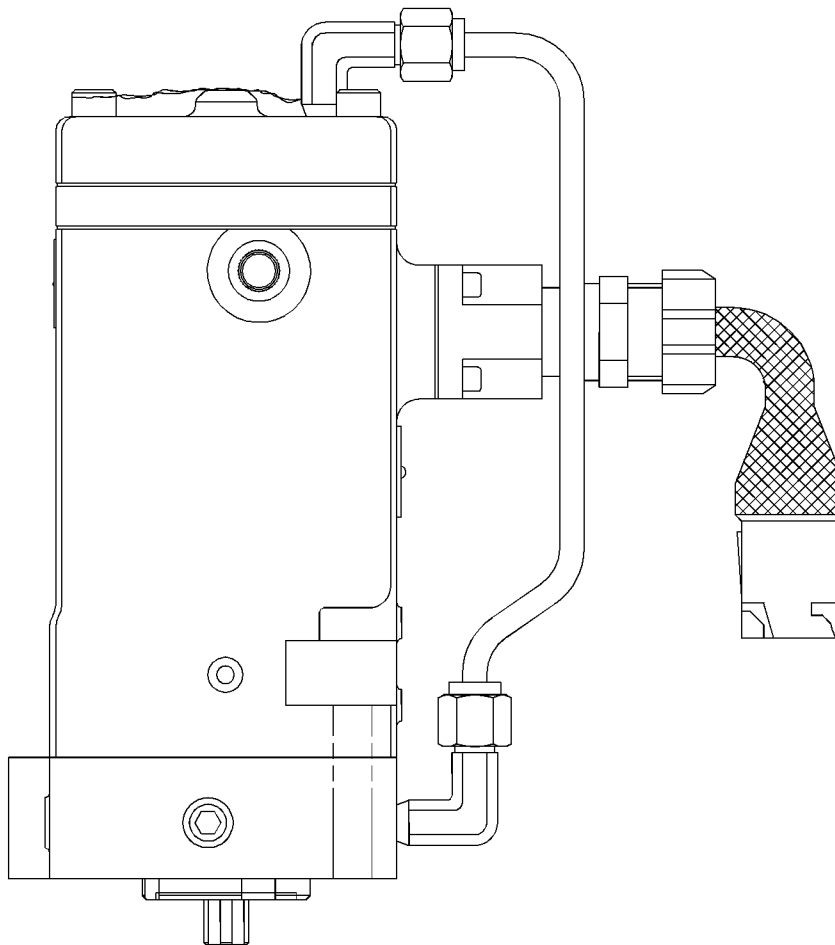
ALSO AN ATTACHMENT

TYPE 2

SMCS-1716

i02228385

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



GRAPHIC #1

<END>

g01124668

FUEL SYSTEM

1W-8887 ACTUATOR GP - GOVERNOR

S/N: ZBA1-UP

SMCS-1716

i00948731

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1W-2135	1	DRIVE GP -GOVERNOR						581
YR	143-6143	1	GOVERNOR GP						586
	2B-0858	1	PLUG-PIPE						
R- REMFG PART MAY BE AVAILABLE									
Y- SEPARATE ILLUSTRATION									

<END>

102-7506 ACTUATOR GP - FUEL RATIO

S/N: ZBA1-UP

PART OF 150-1233 CONTROL GP-FUEL RATIO

SMCS-1716

i00656544

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
			(INDIVIDUAL PARTS ARE NOT SERVICED SEPARATELY)						
			<END>						

108-4886 ACTUATOR GP - GOVERNOR

S/N: ZBA1-UP

SMCS-1716

i02758324

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
YR	118-7590	1	ACTUATOR AS						545
	8T-8729	3	PIN-CONNECTOR						
	8T-8732	1	RECEPTACLE (3-PIN)						
	109-8855	1	CONDUIT AS						
Y	9Y-5896	1	DRIVE GP-GOVERNOR						583
Y	8L-4171	1	SENSOR GP-SPEED (ENGINE)						834
	8T-6762	1	PLUG-PIPE						
	9X-6772	1	STRAP-CABLE						
	4B-4281	1	WASHER (16.8X33X2.5-MM THK)						

<END>

154-3855 ACTUATOR GP - GOVERNOR

S/N: ZBA1-UP

SMCS-1716

i02230840

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
R	118-7590	1	ACTUATOR AS						
	8T-8729	3	PIN-CONNECTOR						
	8T-8732	1	RECEPTACLE (3-PIN)						
	109-8855	1	CONDUIT AS						
Y	9Y-5896	1	DRIVE GP-GOVERNOR						583
	8T-6762	1	PLUG-PIPE						
Y	154-3856	1	WIRING GP-EIS						993

R- REMFG PART MAY BE AVAILABLE
Y- SEPARATE ILLUSTRATION

<END>

FUEL SYSTEM

178-4529 ACTUATOR GP - GOVERNOR

S/N: ZBA1-UP

PART OF 178-4530 ACTUATOR GP - GOVERNOR
AN ATTACHMENT

SMCS-1716

i02821992

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	9Y-5896	1	DRIVE GP -GOVERNOR						583
CY	8L-4171	1	SENSOR GP-SPEED (ENGINE)						834
R	118-7590	1	ACTUATOR AS						
	8T-8729	3	PIN-CONNECTOR						
	8T-8732	1	RECEPTACLE (3-PIN)						
	109-8855	1	CONDUIT AS						
	9X-6772	1	STRAP- CABLE						
C	4B-4281	1	WASHER (16.8X33X2.5-MM THK)						
C-CHANGE FROM PREVIOUS TYPE R-REMFG PART MAY BE AVAILABLE Y-SEPARATE ILLUSTRATION									

<END>

178-4530 ACTUATOR GP - GOVERNOR

S/N: ZBA1-UP

AN ATTACHMENT

SMCS-1716

i01252968

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	178-4529	1	ACTUATOR GP - GOVERNOR						548
Y	4P-5251	1	CONTROL GP - CARBURETOR						570
Y-SEPARATE ILLUSTRATION									

<END>

FUEL SYSTEM

100-7478 CARBURETOR AS

S/N: ZBA1-UP

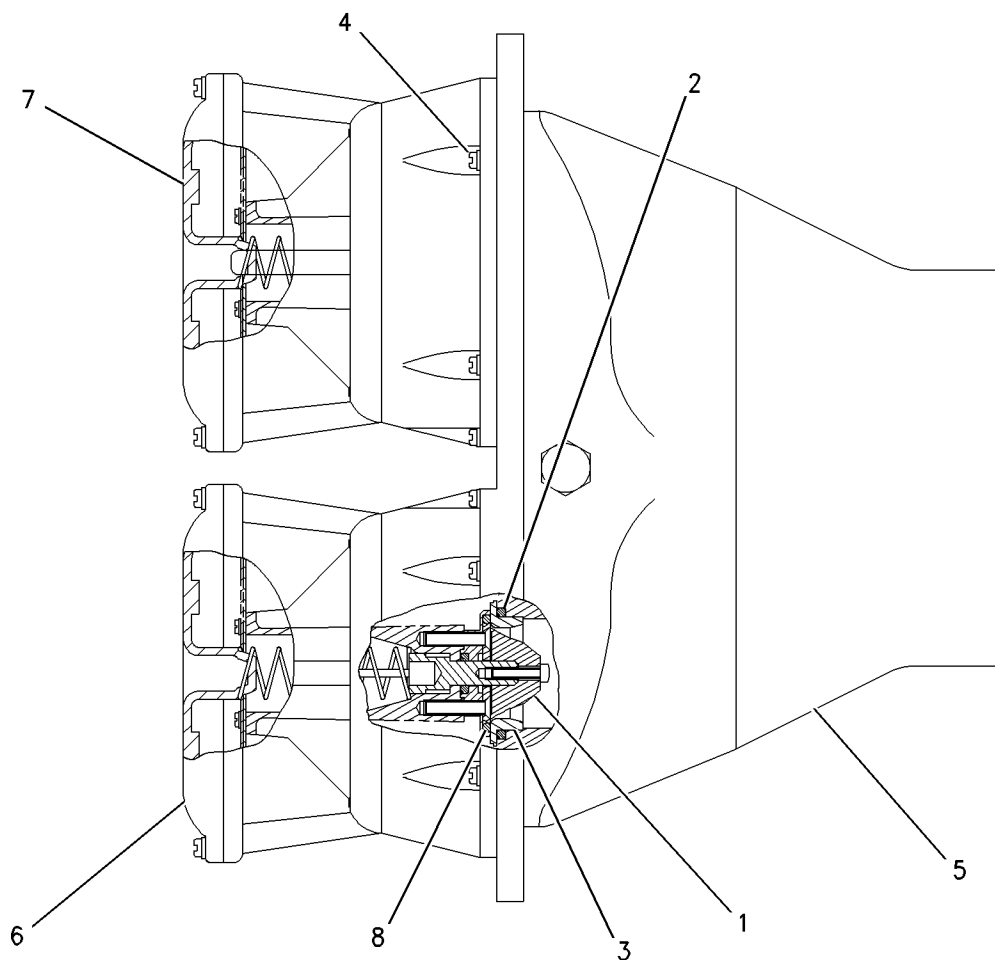
PART OF 4P-9091 CARBURETOR GP
ALSO AN ATTACHMENT

SMCS-1266

i02826585

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	6I-4617	2	VALVE-GAS	
	2	1	5P-1480	2	SEAL-O-RING	
	3	1	7E-1584	2	JET	
	4	1	092-4724	12	SCREW AS (12-24X15.9-MM)	
					(EACH INCLUDES)	
		1	3B-4503	1	LOCKWASHER	
	5	1	100-4339	1	BODY AS (LOW PRESSURE)	
Y	6	1	133-7592	1	VALVE GP-FUEL (UPDRAFT)	624
Y	7	1	7E-1598	1	VALVE GP-FUEL (VARIFUEL)	623
	8	1	061-7540	2	SEAL-O-RING	

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00793963

FUEL SYSTEM

241 - 6966 CARBURETOR AS

S/N: ZBA1-UP

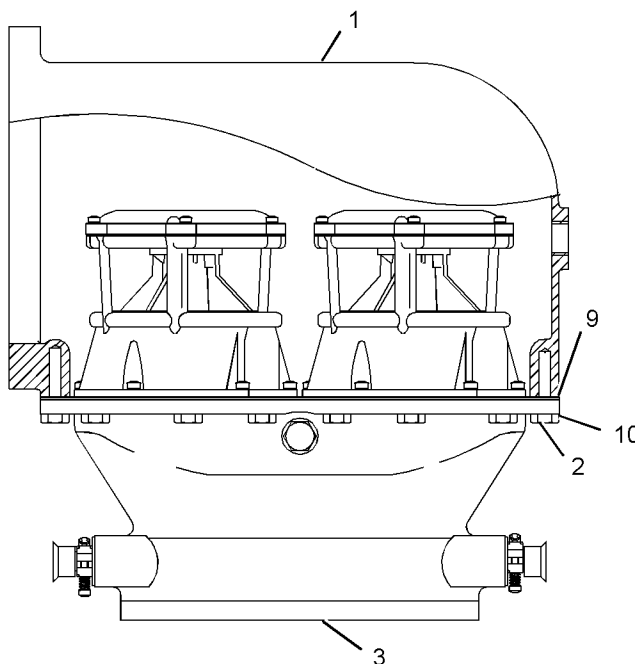
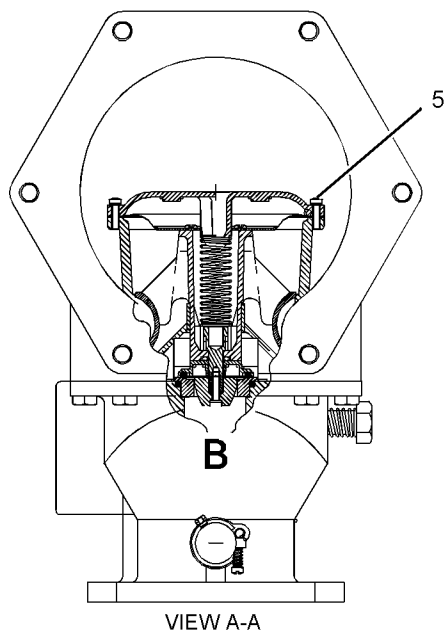
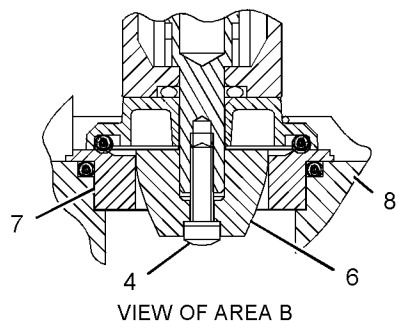
PART OF 9Y-3190 CARBURETOR GP

SMCS-1266

i02781693

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	7W-3774	1	ADAPTER AS	
	2	1	0S-1594	6	BOLT (3/8-16X1-IN)	
Y	3	1	240-8926	1	THROTTLE AS	618
	4	1	9B-7155	2	SCREW-MACHINE (10-24X0.75-IN)	
Y	5	1	7E-1598	2	VALVE GP-FUEL	623
	6	1	125-2119	2	VALVE-GAS (CARBURETOR)	
	7	1	7E-1582	2	JET-GAS	
	8	1	5P-1480	2	SEAL-O-RING	
	9	1	7W-4149	1	GASKET	
	10	1	5M-2894	6	WASHER-HARD (10.2X18.5X2.5-MM THK)	
AVAILABLE REPAIR KIT(S) :						
			7E-1558	1	KIT-HARDWARE (CARBURETOR)	
(INCLUDES SCREWS)						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01023800

FUEL SYSTEM

4P-9091 CARBURETOR GP

S/N: ZBA1-UP

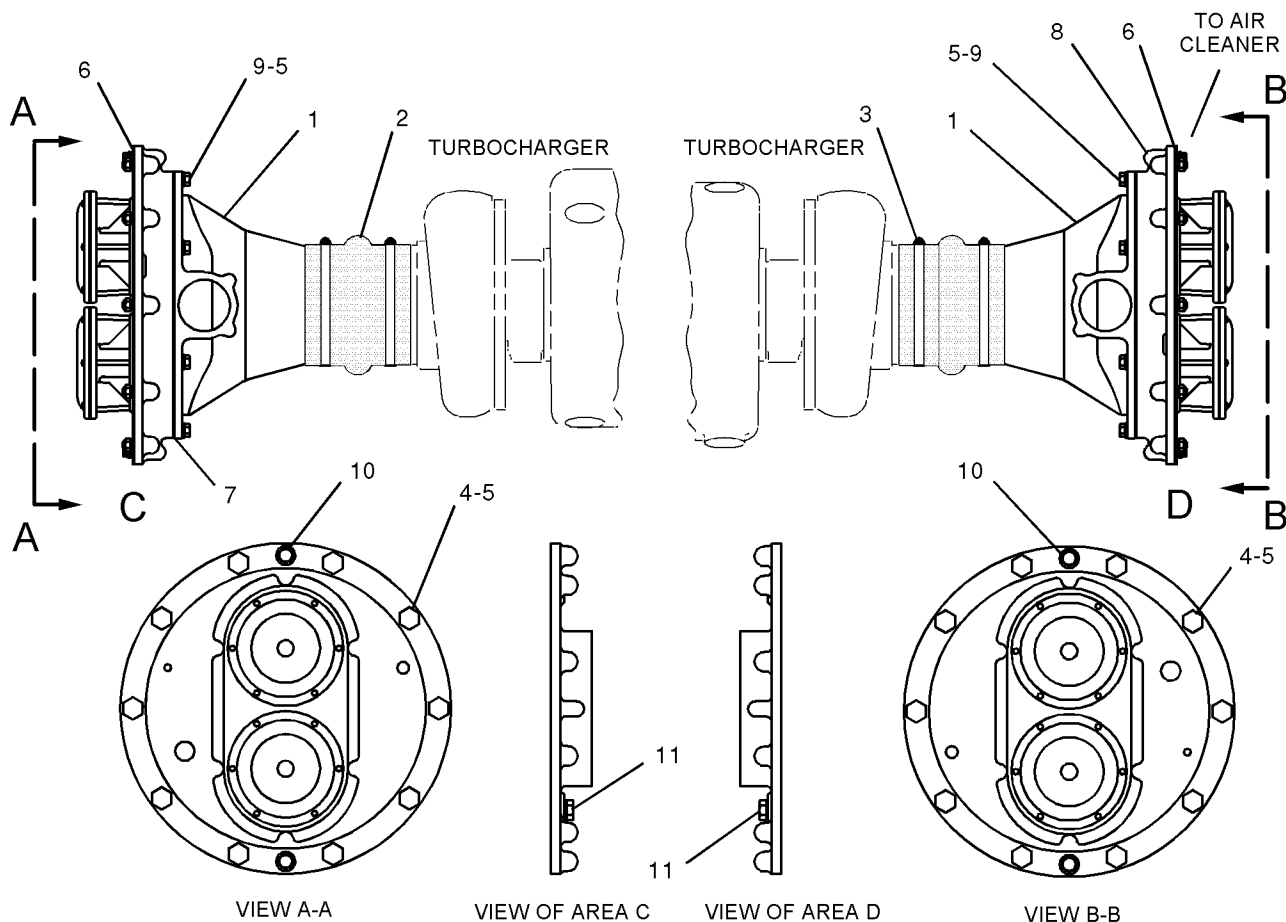
REQUIRES 4P-9088 AIR CLEANER, 4P-9090 REGULATOR AND 7E-9202 THROTTLE
ALSO AN ATTACHMENT

SMCS-1266

i02006746

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
Y	1	1	100-7478	2	CARBURETOR AS	549
	2	1	238-9848	2	HOSE	
	3	1	5P-3860	4	CLAMP-HOSE	
	4	1	0L-1351	20	BOLT (3/8-16X0.875-IN)	
	5	1	5M-2894	32	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	6	1	4P-6719	2	GASKET	
	7	1	7W-4149	2	GASKET	
	8	1	4P-6718	2	ADAPTER-AIR CLEANER	
	9	1	1A-2029	12	BOLT (3/8-16X1.125-IN)	
	10	1	1T-0822	4	BOLT-12 POINT HEAD (3/8-16X0.75-IN)	
	11	1	3E-7430	2	PLUG-PIPE	

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01038663

FUEL SYSTEM

9Y-3190 CARBURETOR GP

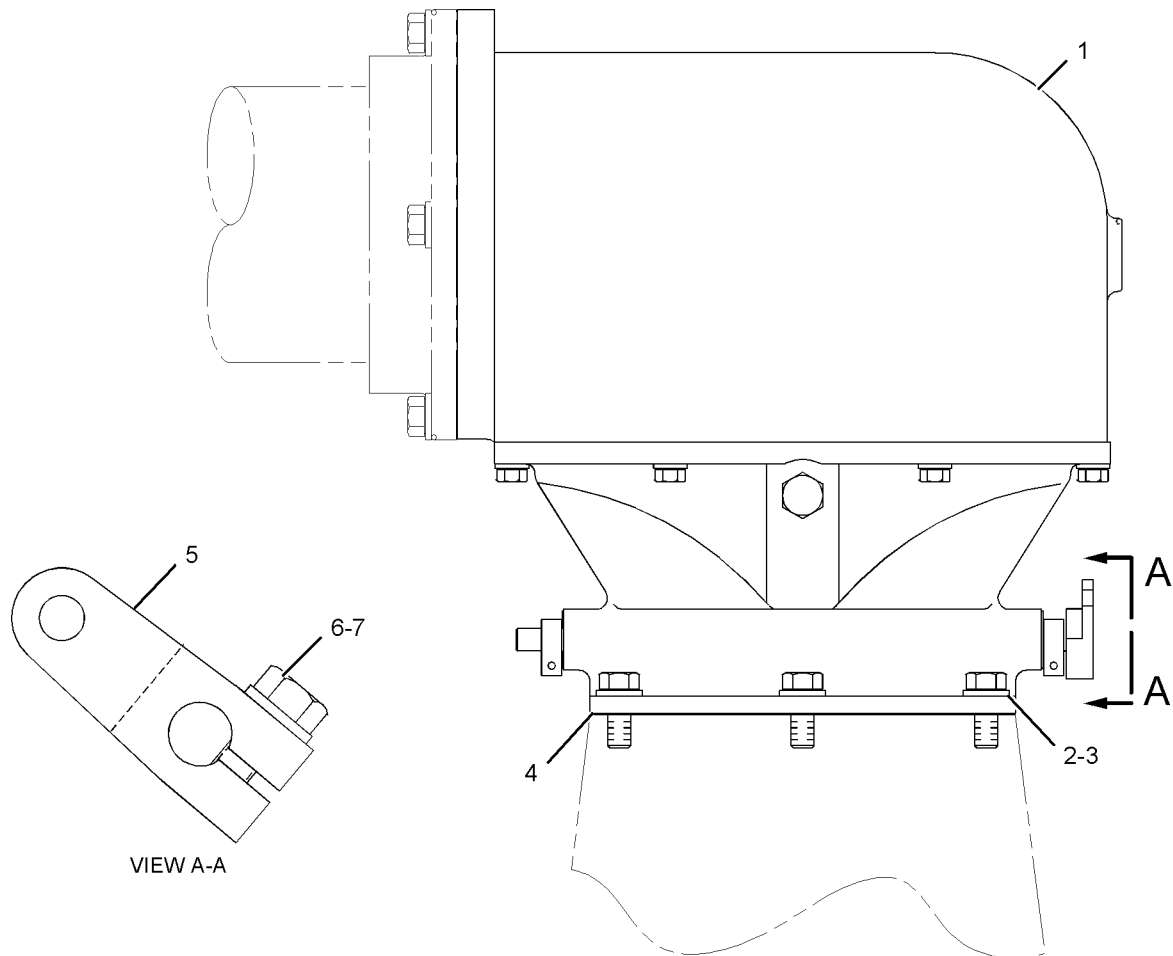
S/N: ZBA1-UP

SMCS-1266

i01964667

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
CY	1	1	241-6966	1	CARBURETOR AS	550
	2	1	7B-3235	6	BOLT (1/2-13X1.375-IN)	
	3	1	5P-8245	6	WASHER-HARD (13.5X25.5X3-MM THK)	
	4	1	4W-9765	1	GASKET	
	5	1	9Y-2635	1	LEVER-CARBURETOR	
	6	1	4B-3388	1	BOLT (5/16-18X1.125-IN)	
	7	1	9M-1974	1	WASHER-HARD (8.8X16X2-MM THK)	

C-CHANGE FROM PREVIOUS TYPE
Y-SEPARATE ILLUSTRATION



g01023795

FUEL SYSTEM

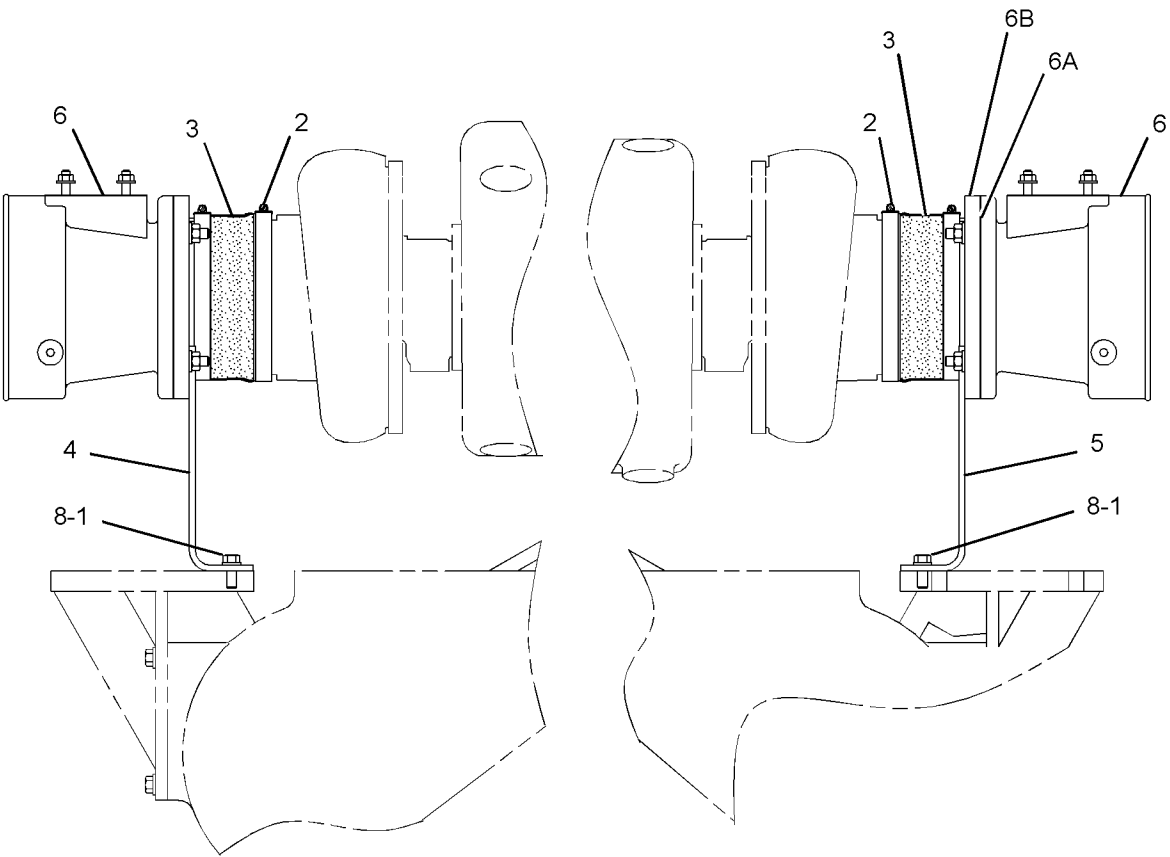
105 - 2258 CARBURETOR GP

S/N: ZBA1-UP

SMCS - 1266

i02409183

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9X - 6458	4	WASHER - HARD (10.2X22.5X3-MM THK)						
	2	1	5P - 3860	4	CLAMP - HOSE						
	3	1	7E - 8223	2	HOSE						
	4	1	7E - 8278	1	SUPPORT						
	5	1	7E - 8279	1	SUPPORT						
	6	1	105 - 2257	2	CARBURETOR GP						
					(EACH INCLUDES)						
	6A	1	107 - 8504	1	GASKET						
	6B	1	108 - 0357	1	FLANGE						
	8	1	0S - 1594	4	BOLT (3/8-16X1-IN)						



REAR VIEW

GRAPHIC #1

<END>

g01203907

FUEL SYSTEM

106-6498 CARBURETOR GP

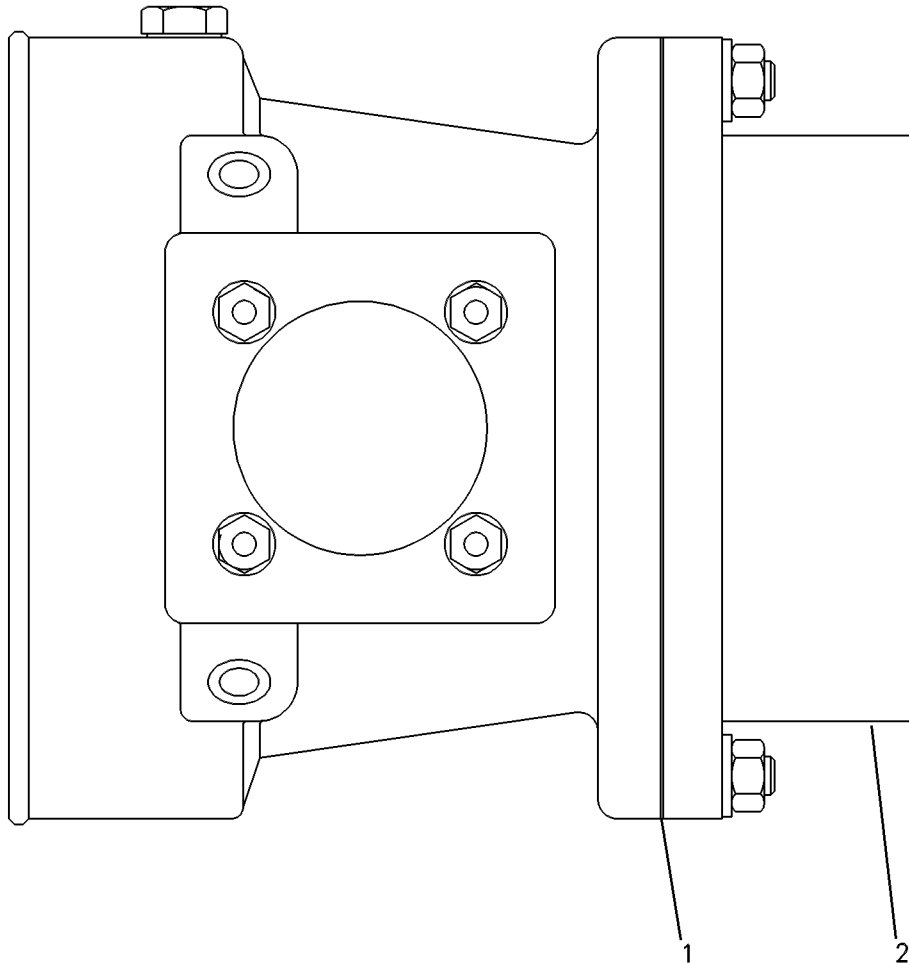
S/N: ZBA1-UP

PART OF 121-7725, 136-7411 CARBURETOR GP
ALSO AN ATTACHMENT

SMCS-1266

i00657343

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	1	1	107-8504	1	GASKET						
C	2	1	108-0357	1	FLANGE						
C-CHANGE FROM PREVIOUS TYPE											



GRAPHIC #1

<END>

g00252976

FUEL SYSTEM

121 - 7725 CARBURETOR GP

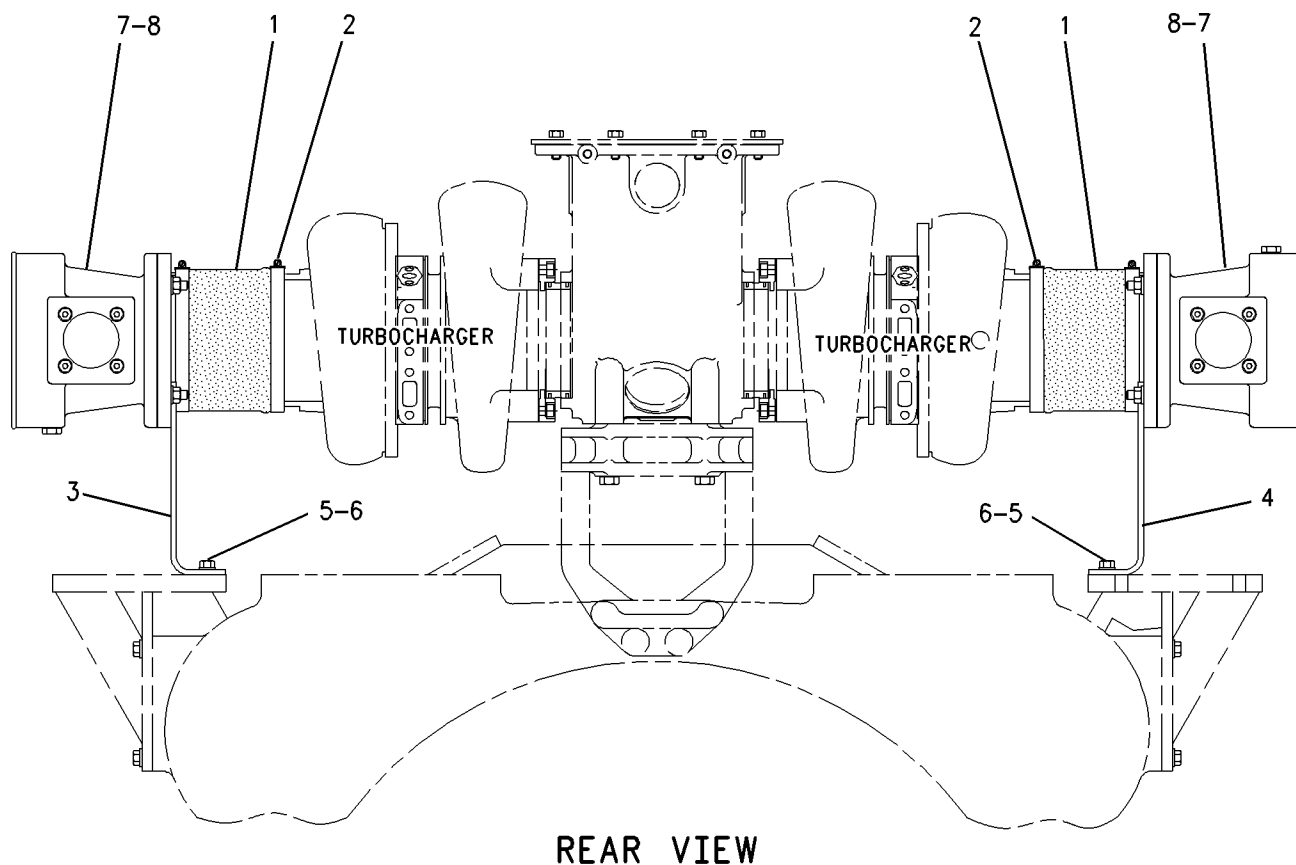
S/N: ZBA1-UP

SMCS-1266

i01454955

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9S-2592	2	HOSE - HUMP						
	2	1	5P-3860	4	CLAMP - HOSE						
	3	1	7E-8278	1	SUPPORT						
	4	1	7E-8279	1	SUPPORT						
	5	1	0S-1594	4	BOLT (3/8-16X1 IN)						
	6	1	9X-6458	4	WASHER-HARD (10.2X22.5X3MM THK)						
Y	7	1	106-6498	2	CARBURETOR GP						554
	8	1	106-7811	2	INSERT-CARBURETOR						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00764647

FUEL SYSTEM

136 - 7411 CARBURETOR GP

S/N: ZBA1-UP

HIGH BTU

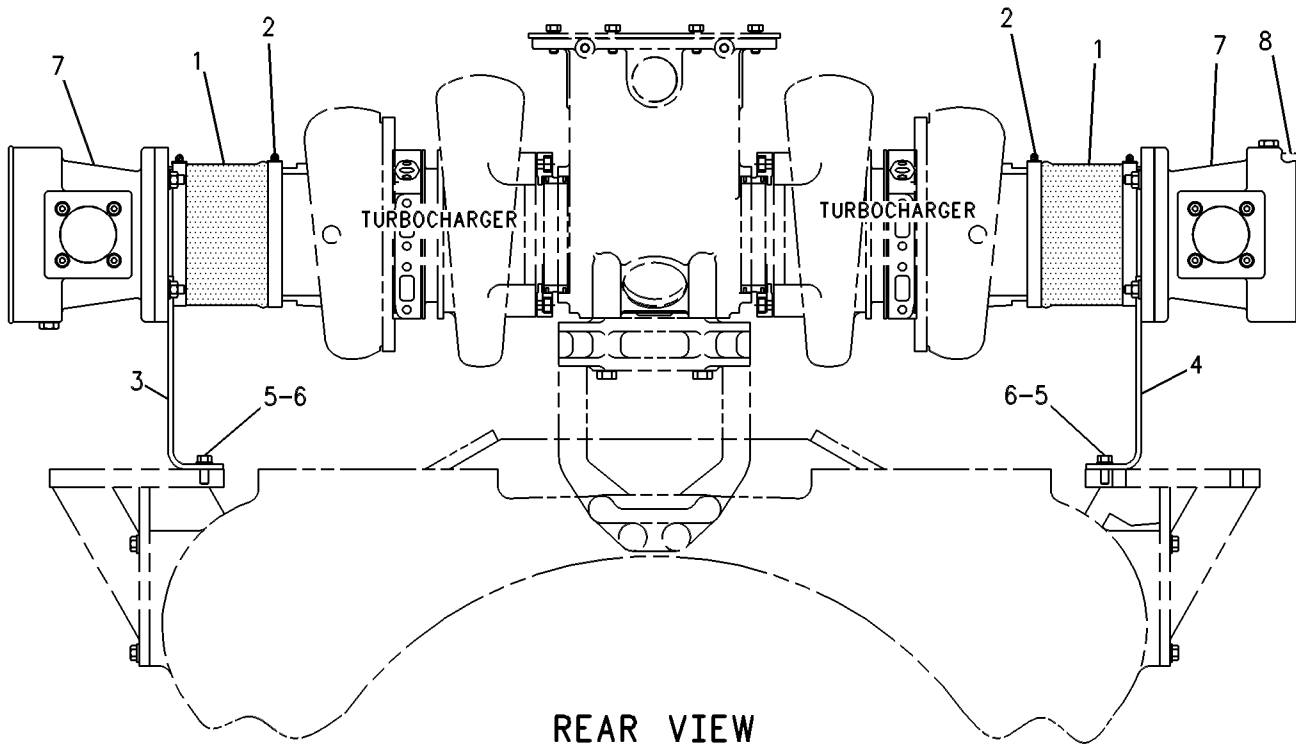
FOR USE WITH DRY MANIFOLD
AN ATTACHMENT

SMCS - 1266

i01460068

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9S-2592	2	HOSE - HUMP						
	2	1	5P-3860	4	CLAMP - HOSE						
	3	1	7E-8278	1	SUPPORT (LEFT HAND)						
	4	1	7E-8279	1	SUPPORT (RIGHT HAND)						
	5	1	0S-1594	4	BOLT (3/8-16X1 IN)						
	6	1	9X-6458	4	WASHER - HARD (10.2X22.5X3MM THK)						
Y	7	1	106-6498	2	CARBURETOR GP						554
	8	1	106-7808	2	INSERT - CARBURETOR						

Y - SEPARATE ILLUSTRATION



REAR VIEW

GRAPHIC #1

<END>

g00273269

FUEL SYSTEM

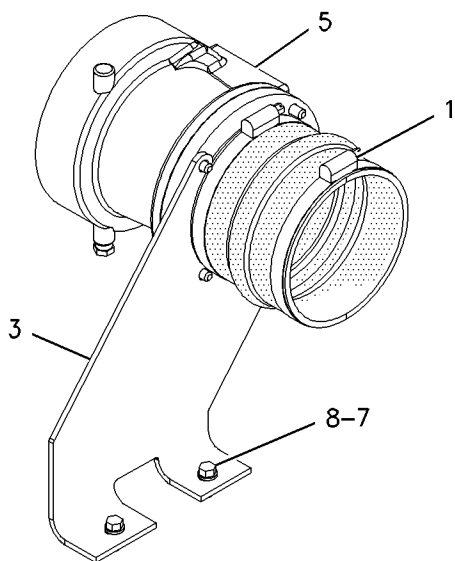
160 - 7741 CARBURETOR GP

S/N: ZBA1-UP

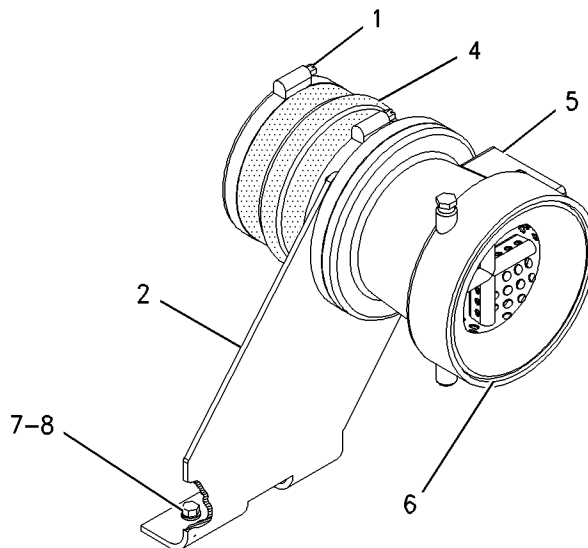
SMCS-1266

i01456497

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-3860	4	CLAMP-HOSE						
	2	1	7E-8278	1	SUPPORT						
	3	1	7E-8279	1	SUPPORT						
	4	1	9S-2592	2	HOSE-HUMP						
	5	1	105-2257	2	CARBURETOR GP						
					(EACH INCLUDES)						
		1	107-8504	1	GASKET						
		1	108-0357	1	FLANGE						
	6	1	136-8039	2	INSERT-CARBURETOR						
	7	1	0S-1594	4	BOLT (3/8-16X1 IN)						
	8	1	9X-6458	4	WASHER-HARD (10.2X22.5X3MM THK)						



VIED FROM UPPER
LEFT FRONT



GRAPHIC #1

<END>

g00761414

FUEL SYSTEM

170-0984 CARBURETOR GP

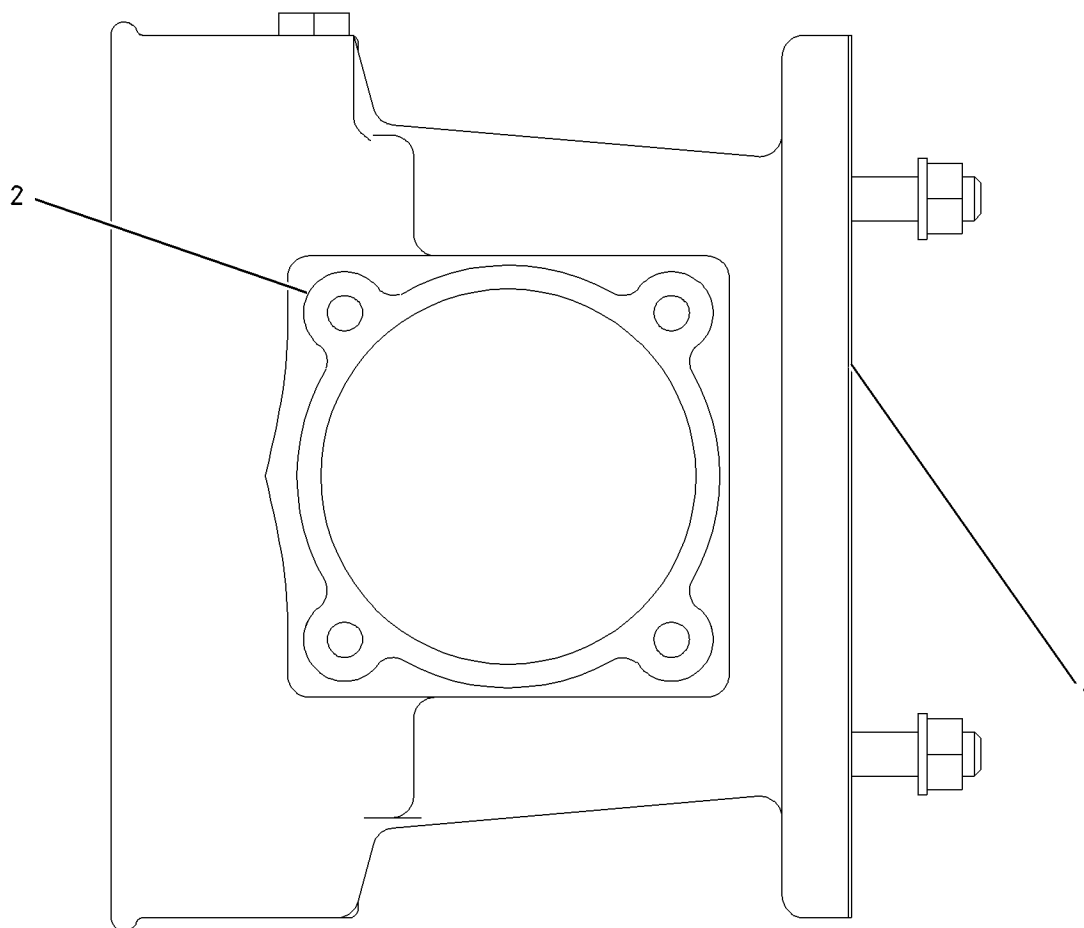
S/N: ZBA1-UP

PART OF 170-0985 CARBURETOR GP
ALSO AN ATTACHMENT

SMCS-1266

i01448373

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	107-8504	1	GASKET						
	2	1	184-5523	1	GASKET						



GRAPHIC #1

<END>

g00758366

FUEL SYSTEM

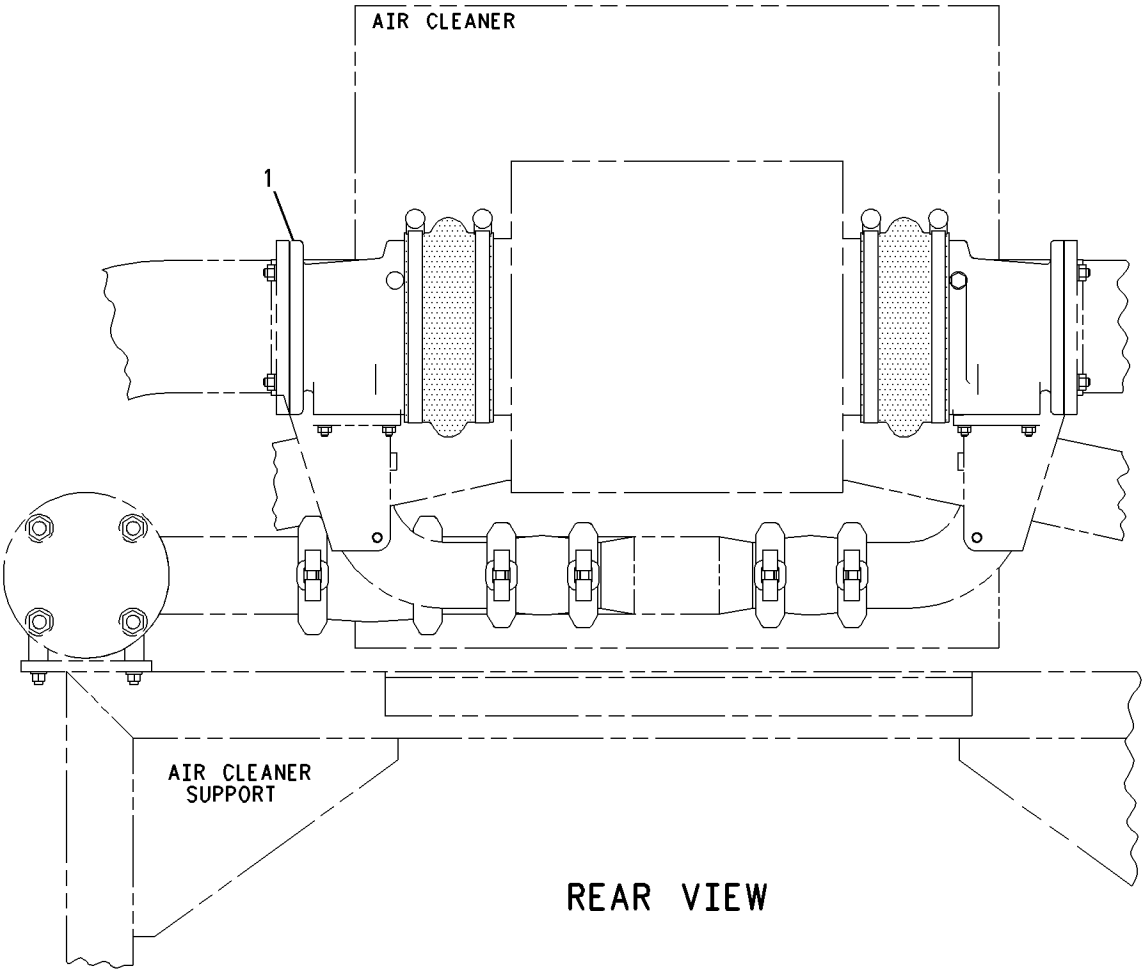
170-0985 CARBURETOR GP

S/N: ZBA1-UP
FOR USE WITH SINGLE REAR MOUNT AIR CLEANER
ALSO AN ATTACHMENT

SMCS-1266

i01654298

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	170-0984	2	CARBURETOR GP						558
Y-SEPARATE ILLUSTRATION											



GRAPHIC #1

<END>

g00862296

FUEL SYSTEM

211 - 1685 CARBURETOR GP

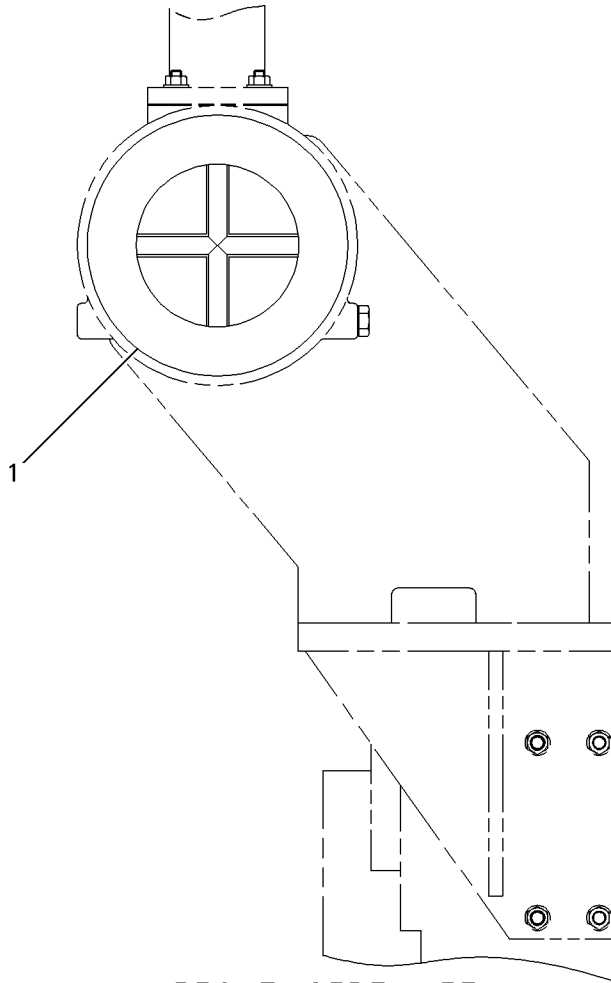
S/N: ZBA1-UP

FOR USE WITH DRY MANIFOLD ENGINES AND LOW BTU FUEL CARBS, 105-2258—PAGE 553
AN ATTACHMENT

SMCS-1266

i01698424

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	106-7943	2	INSERT - CARBURETOR						



RIGHT SIDE VIEW

<END>

GRAPHIC #1

g00891530

FUEL SYSTEM

211 - 1686 CARBURETOR GP

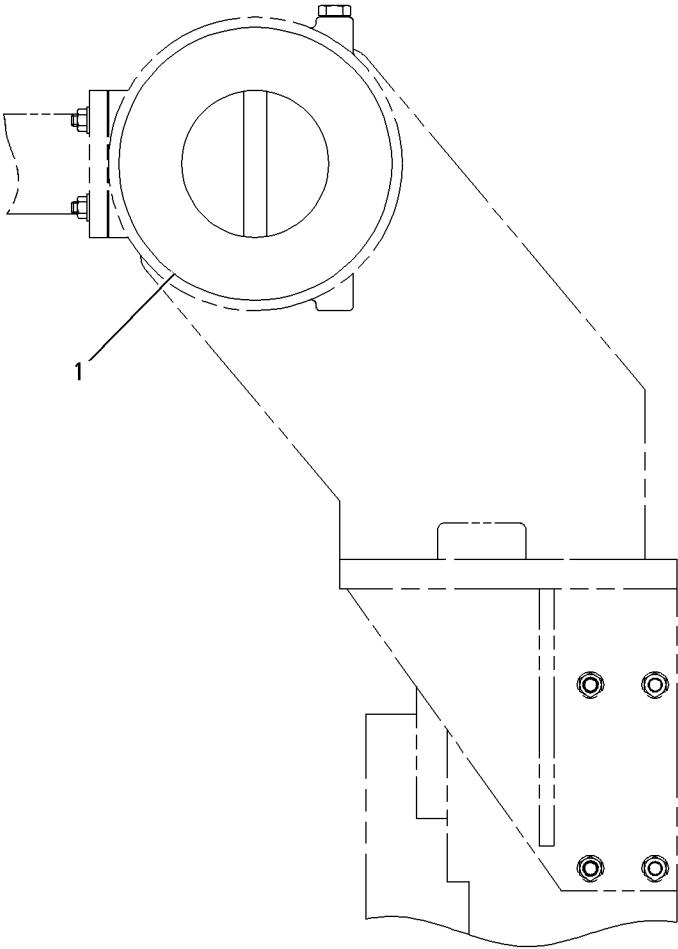
S/N: ZBA1-UP

FOR USE WITH HIGH BTU CARBURETORS, 136-7411—PAGE 556
AN ATTACHMENT

SMCS-1266

i01698435

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	106-7808	2	INSERT - CARBURETOR						



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g00891538

FUEL SYSTEM

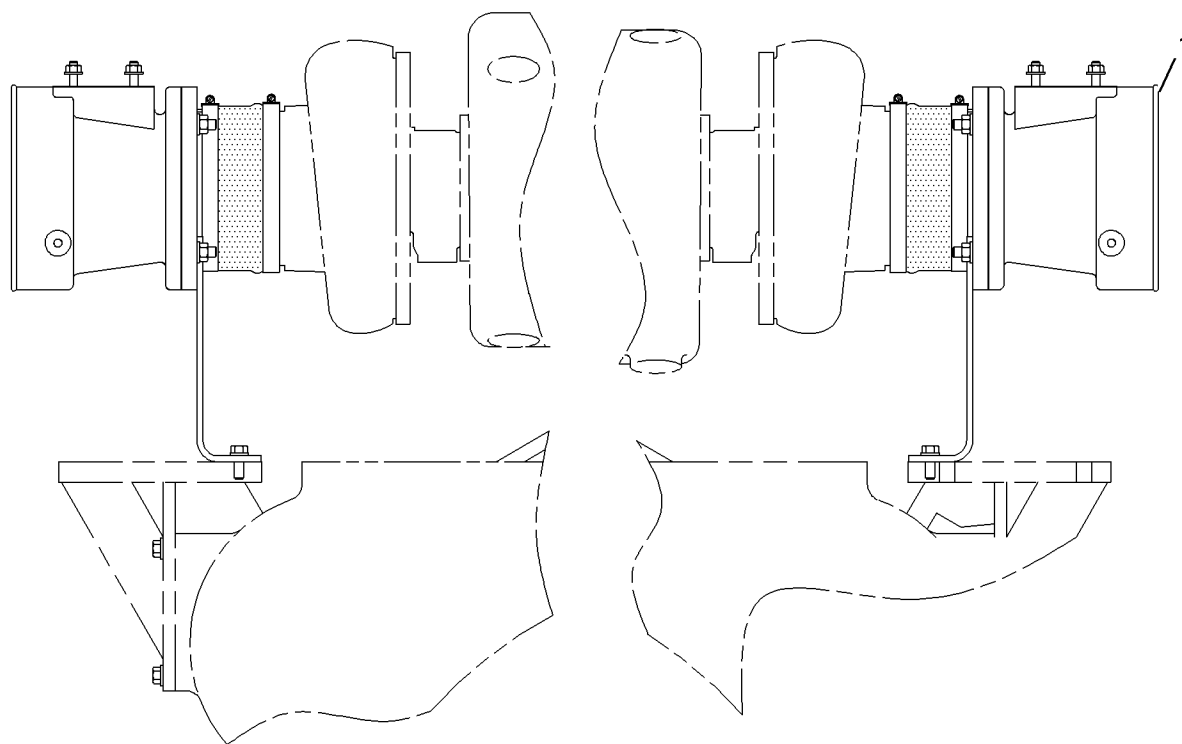
211 - 1689 CARBURETOR GP

S/N: ZBA1-UP
FOR USE WITH LANDFILL CARBURETOR
AN ATTACHMENT

SMCS - 1266

i01698463

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	106-7944	2	INSERT - CARBURETOR						



REAR VIEW

GRAPHIC #1

<END>

g00885971

FUEL SYSTEM

211 - 1690 CARBURETOR GP

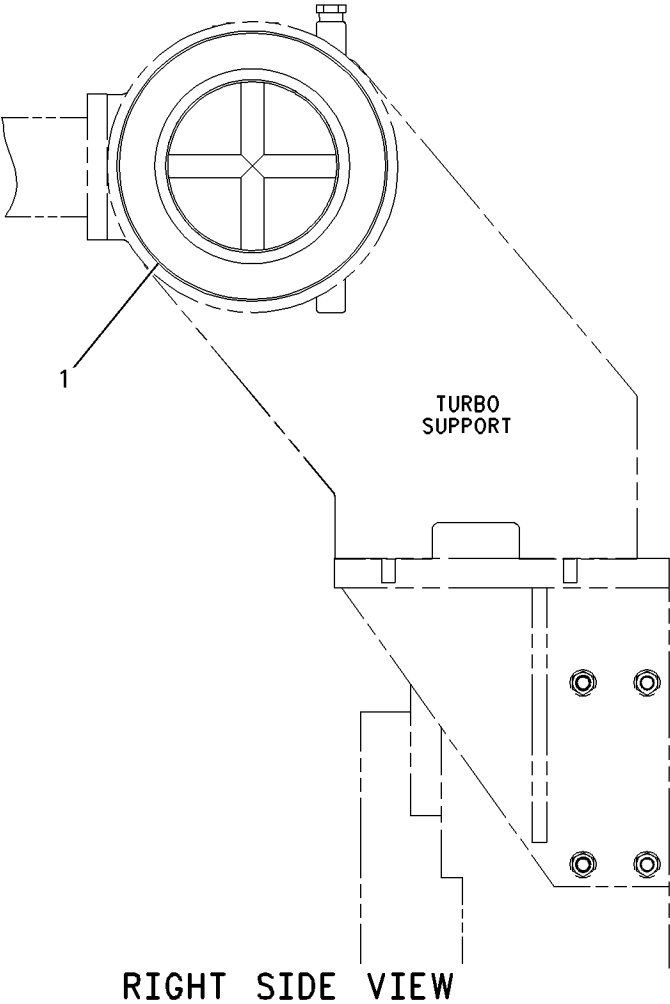
S/N: ZBA1-UP

FOR USE WITH 160-7741-PAGE 557
ALSO AN ATTACHMENT

SMCS - 1266

i01698464

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	136-8039	2	INSERT - CARBURETOR						



GRAPHIC #1

<END>

g00924722

FUEL SYSTEM

215 - 2784 CARBURETOR GP

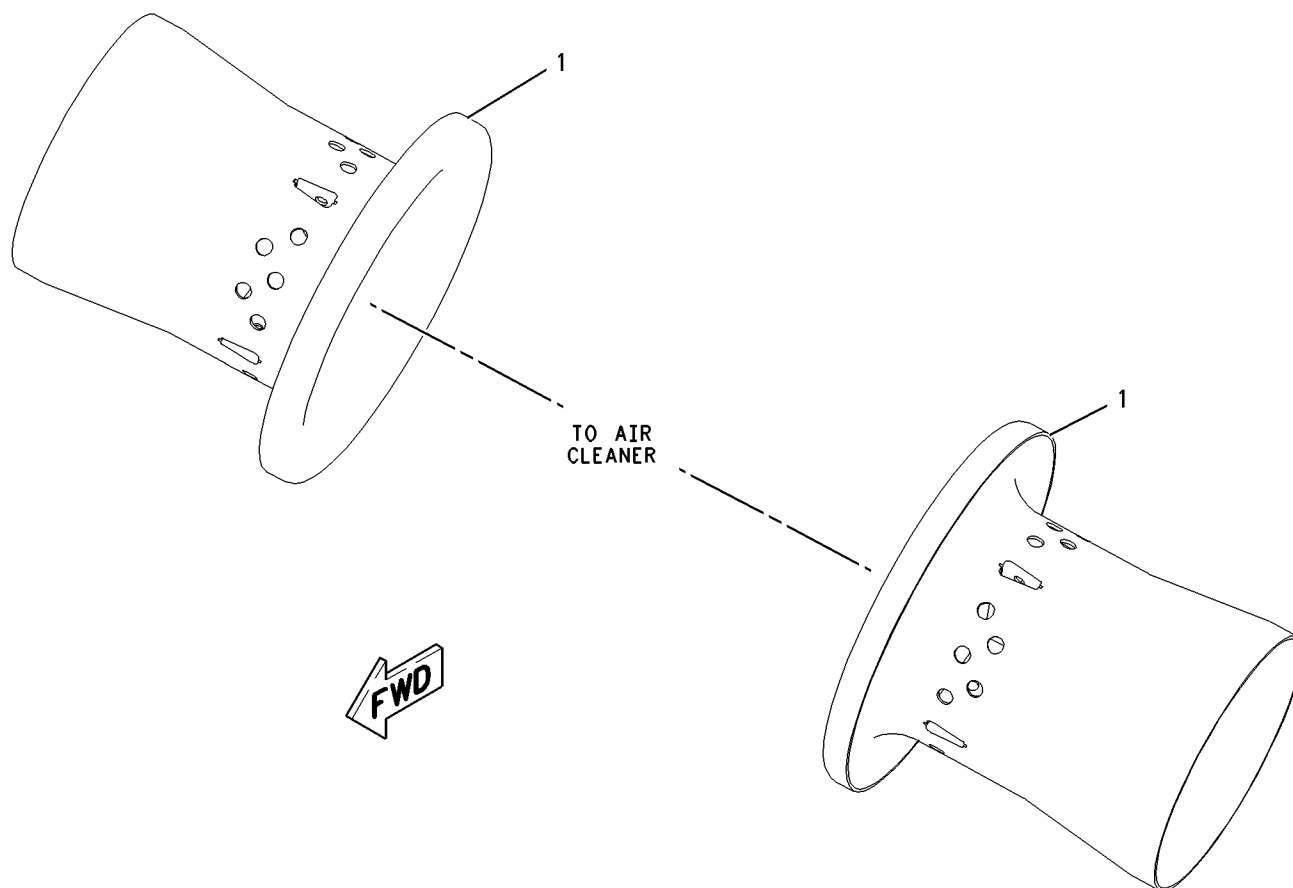
S/N: ZBA1-UP

FOR USE WITH LANDFILL UPRATE ENGINE
ALSO AN ATTACHMENT

SMCS-1266

i01654308

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	170-0989	2	INSERT - CARBURETOR						



GRAPHIC #1

<END>

g00868306

FUEL SYSTEM

131-5451 CONTROL AS-GOVERNOR-SPEED CONTROL

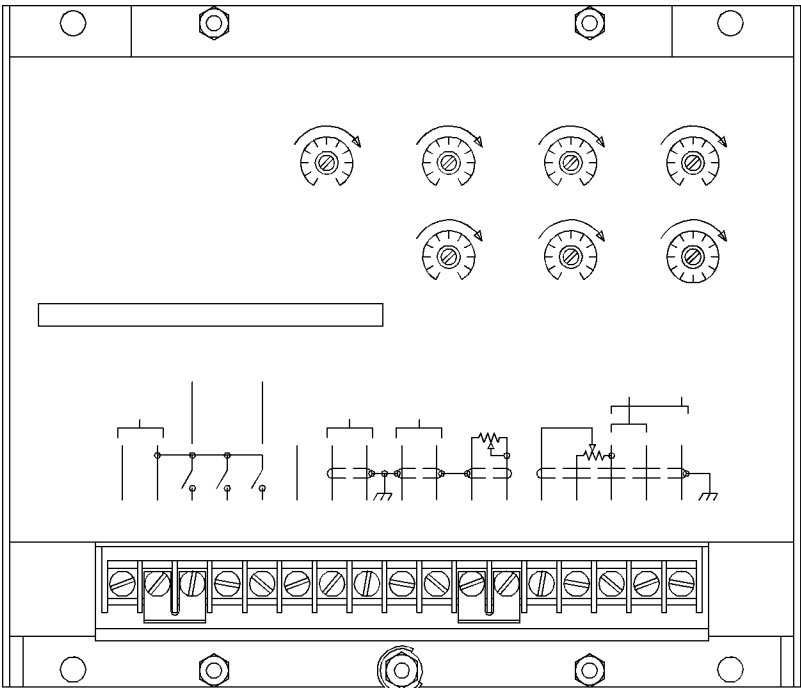
S/N: ZBA1-UP

PART OF 118-7591, 166-9270 GOVERNOR GP-ELECTRONIC, 4P-9566 PANEL GP-CONTROL
ALSO AN ATTACHMENT

SMCS-1264

i02078072

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)						



GRAPHIC #1

<END>

g01065917

FUEL SYSTEM

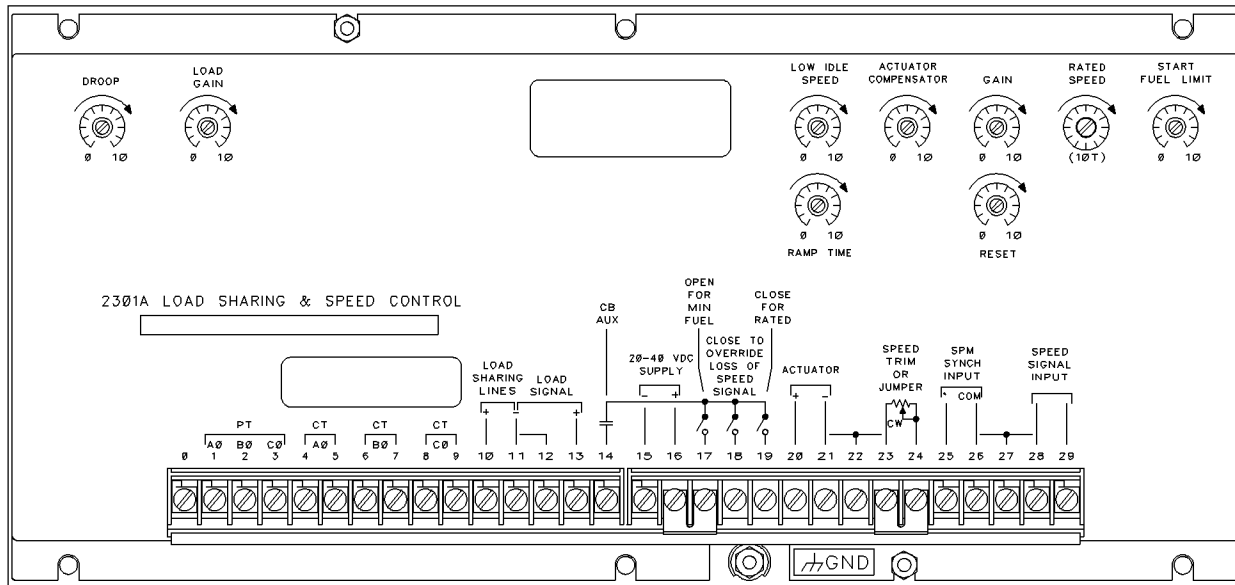
131 - 5452 CONTROL AS - GOVERNOR - SPEED CONTROL

S/N: ZBA1-UP
AN ATTACHMENT

SMCS - 1264

i01552852

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
					(NO SERVICED PARTS)						



GRAPHIC #1

<END>

g00737165

FUEL SYSTEM

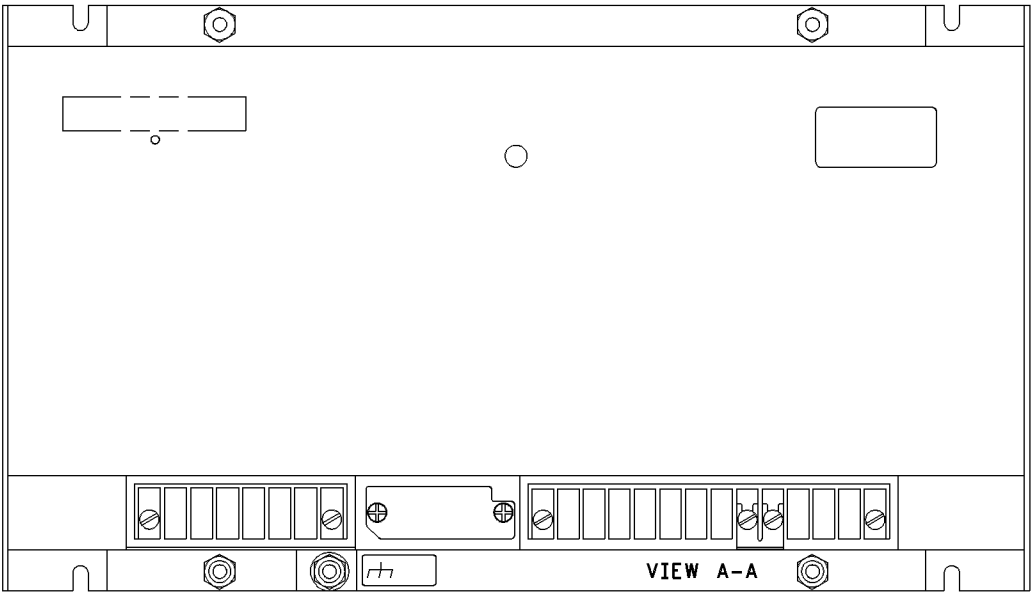
131-5457 CONTROL AS-GOVERNOR-SPEED CONTROL

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1264

i01502639

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



GRAPHIC #1

<END>

g00107247

FUEL SYSTEM

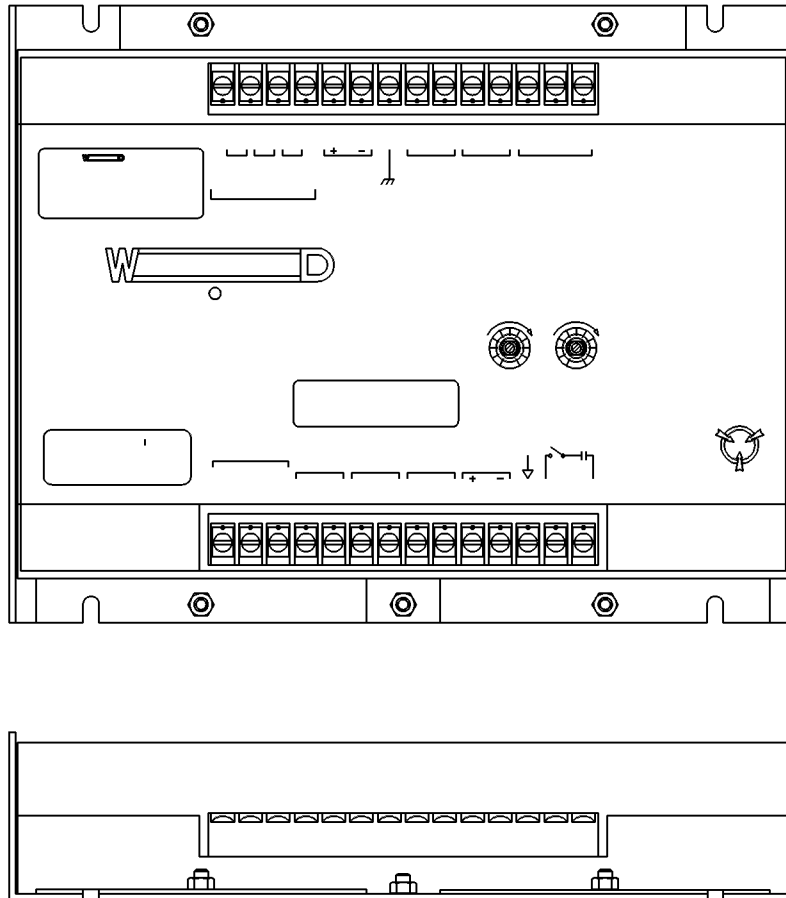
131-5567 CONTROL AS-GOVERNOR

S/N: ZBA1-UP
LOAD SHARE
AN ATTACHMENT

SMCS-1264

i01774529

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



GRAPHIC #1

<END>

g00272437

FUEL SYSTEM

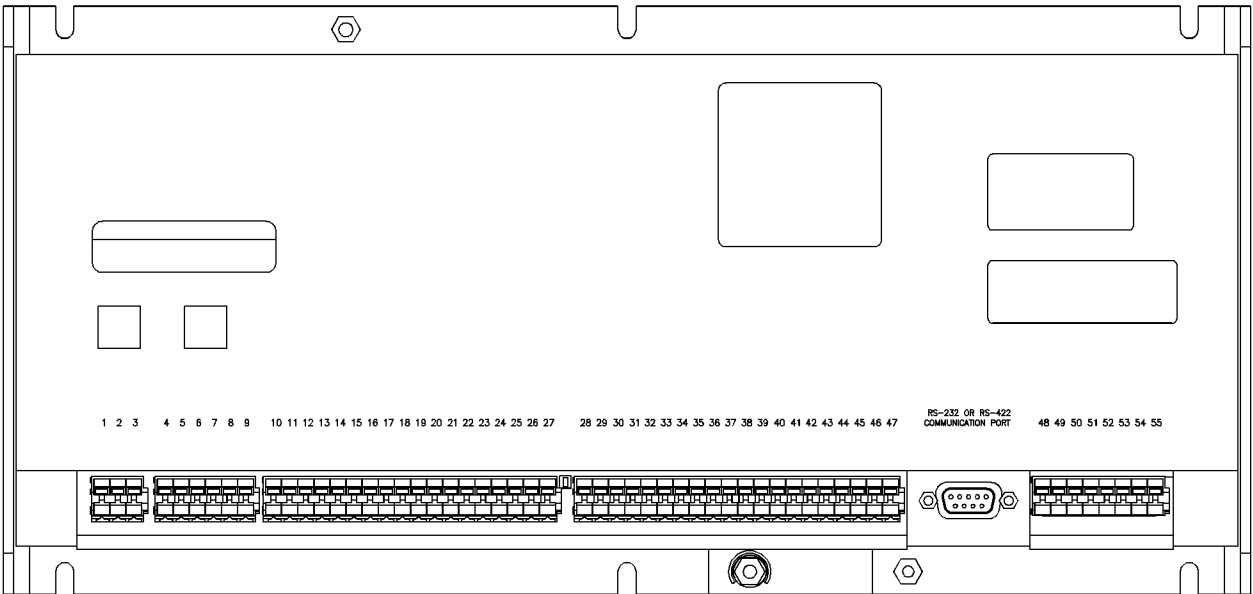
293 - 8356 CONTROL AS - GOVERNOR

S/N: ZBA1-UP
FOR USE WITH G3500, D3500, AND D3600 EPG ENGINE
AN ATTACHMENT

SMCS - 1264

i02613036

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



GRAPHIC #1

<END>

g01353551

FUEL SYSTEM

4P-5251 CONTROL GP-CARBURETOR

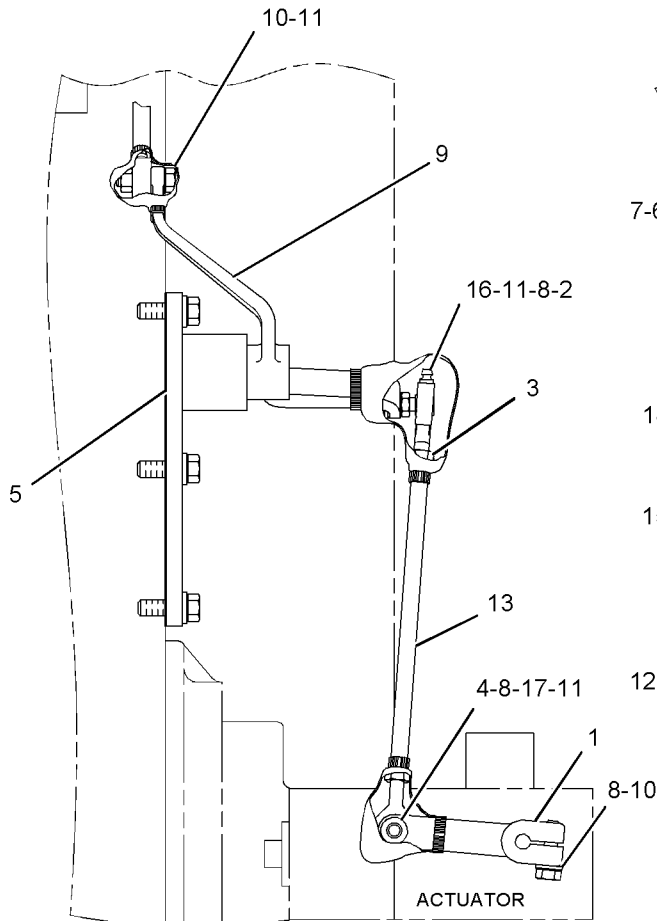
S/N: ZBA1-UP

PART OF 178-4530 ACTUATOR GP-GOVERNOR, 107-4471 GOVERNOR GP-ELECTRIC
AN ATTACHMENT

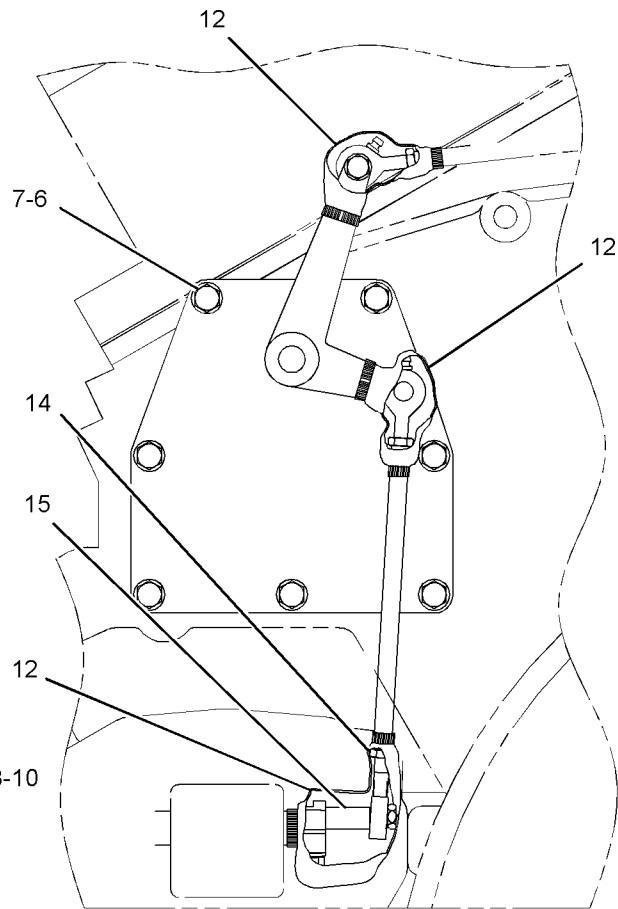
SMCS-1266

i02226408

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4P-0708	1	LEVER						
	2	1	1B-7182	1	BOLT (5/16-18X1.25-IN)						
	3	1	6V-8186	2	NUT-FULL (5/16-24-THD)						
	4	1	1D-4538	1	BOLT (5/16-18X2.25-IN)						
	5	1	8N-9885	1	GASKET-COVER						
	6	1	1A-2029	7	BOLT (3/8-16X1.125-IN)						
	7	1	5M-2894	7	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	8	1	9M-1974	5	WASHER-HARD (8.8X16X2-MM THK)						
	9	1	4W-4945	1	LEVER AS						
		1	4W-4944	1	LEVER-GOVERNOR						
	10	1	4B-3388	2	BOLT (5/16-18X1.125-IN)						
	11	1	5S-0003	3	NUT (5/16-18-THD)						
	12	1	114-9269	3	SLEEVE						
	13	1	119-5092	1	ROD						
	14	1	8L-4496	1	NUT-JAM (5/16-24 LH-THD)						
	15	1	8T-9658	1	SPACER (8.2X12.7X25.4-MM THK)						
	16	1	6V-8955	1	ROD END						
	17	1	6V-9163	1	ROD END (BEARING)						



LEFT SIDE VIEW



REAR VIEW

GRAPHIC #1

<END>

g01123293

FUEL SYSTEM

4P-6942 CONTROL GP-CARBURETOR

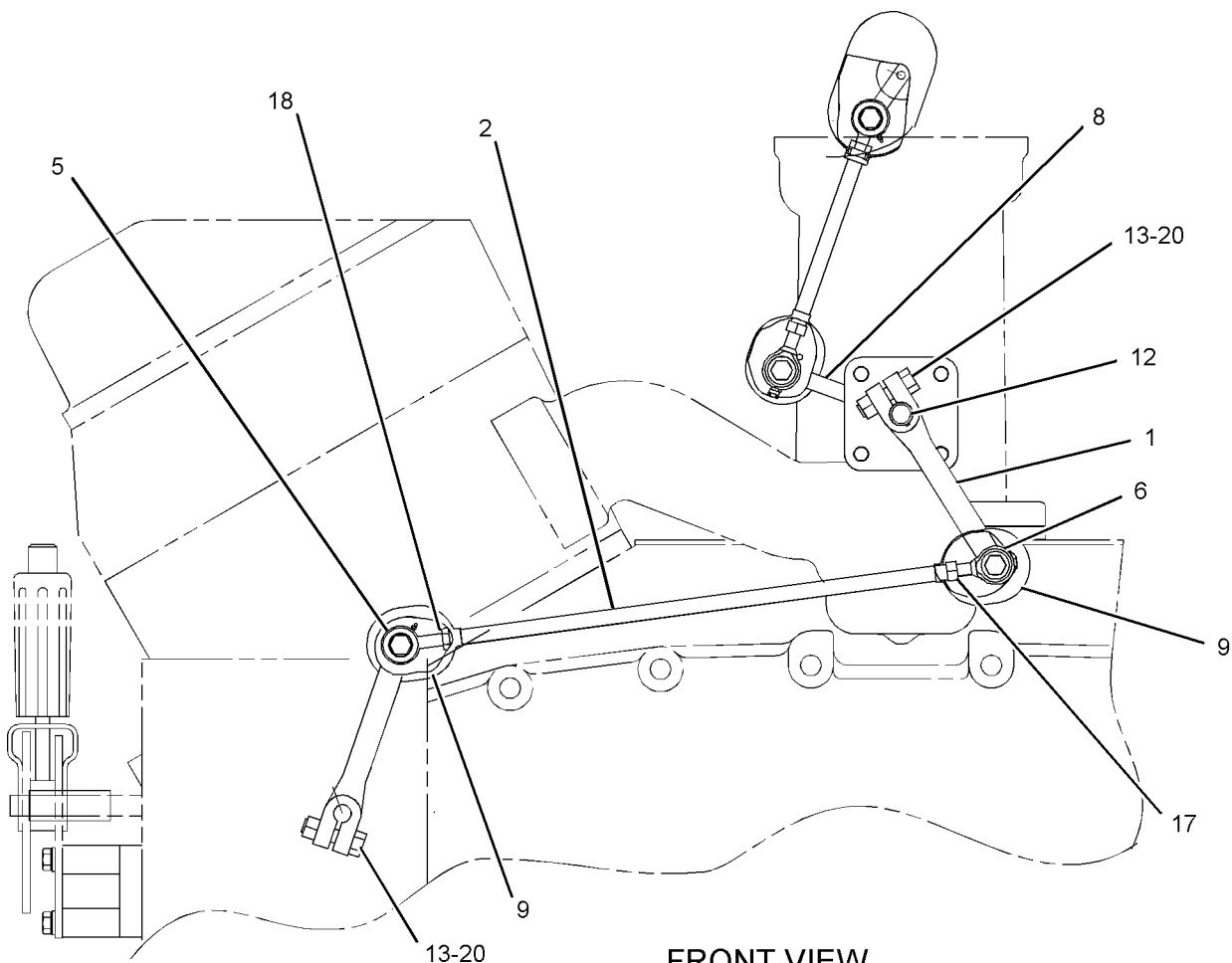
S/N: ZBA1-UP

SMCS-1266

i02074928

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-5404	1	LEVER						
	2	1	2W-5405	1	ROD						
	3	2	2W-5406	1	LEVER						
	4	2	5L-3291	2	BEARING AS-BALL						
C	5	1,2	6V-9163	2	ROD END (BEARING)						
C	6	1,2	7E-9748	2	ROD END (BEARING)						
	7	2	7W-0200	1	SHAFT						
	8	1	9Y-2636	1	LEVER						
C	9	1,2	114-9269	6	SLEEVE						
C	10	2	123-8680	1	ROD						
	11	2	1A-2029	8	BOLT (3/8-16X1.125-IN)						
	12	1	1B-8701	2	KEY-WOODRUFF						
	13	1,2	3B-1915	3	BOLT (3/8-16X1.375-IN)						
	14	2	4B-3388	4	BOLT (5/16-18X1.125-IN)						
	15	2	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	16	2	5S-0003	4	NUT (5/16-18-THD)						
C	17	1,2	6V-8186	2	NUT-FULL (5/16-24-THD)						
C	18	1,2	8L-4496	2	NUT-JAM (5/16-24 LH-THD)						
	19	2	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						
	20	1,2	9S-8752	3	NUT-FULL (3/8-16-THD)						

C- CHANGE FROM PREVIOUS TYPE



FRONT VIEW

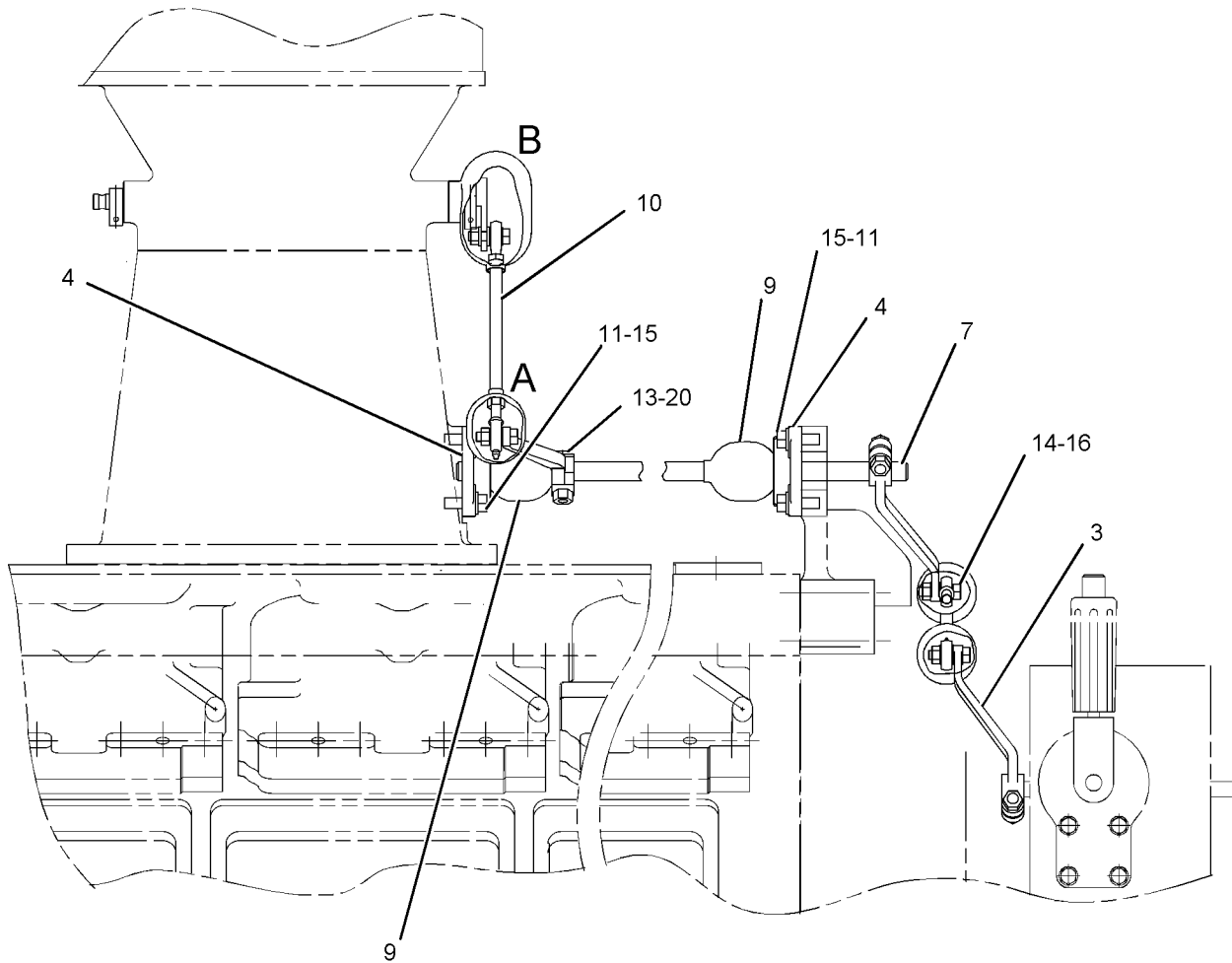
GRAPHIC #1

g01062350

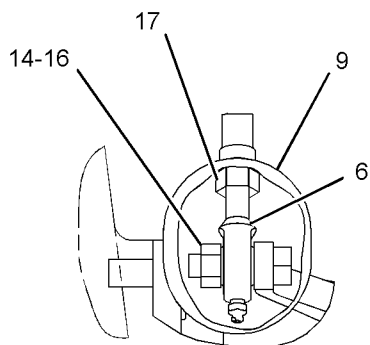
FUEL SYSTEM

4P-6942 CONTROL GP-CARBURETOR (contd.)

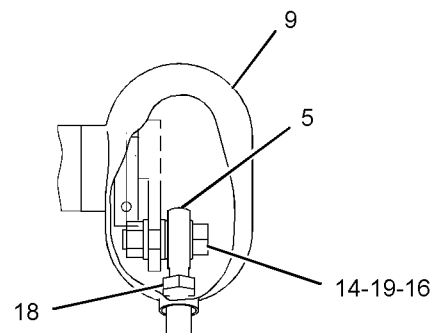
i02074928



RIGHT SIDE VIEW



VIEW OF AREA A



VIEW OF AREA B

GRAPHIC #2

<END>

g01061846

FUEL SYSTEM

4P-7316 CONTROL GP-CARBURETOR

S/N: ZBA1-UP

SMCS-1266

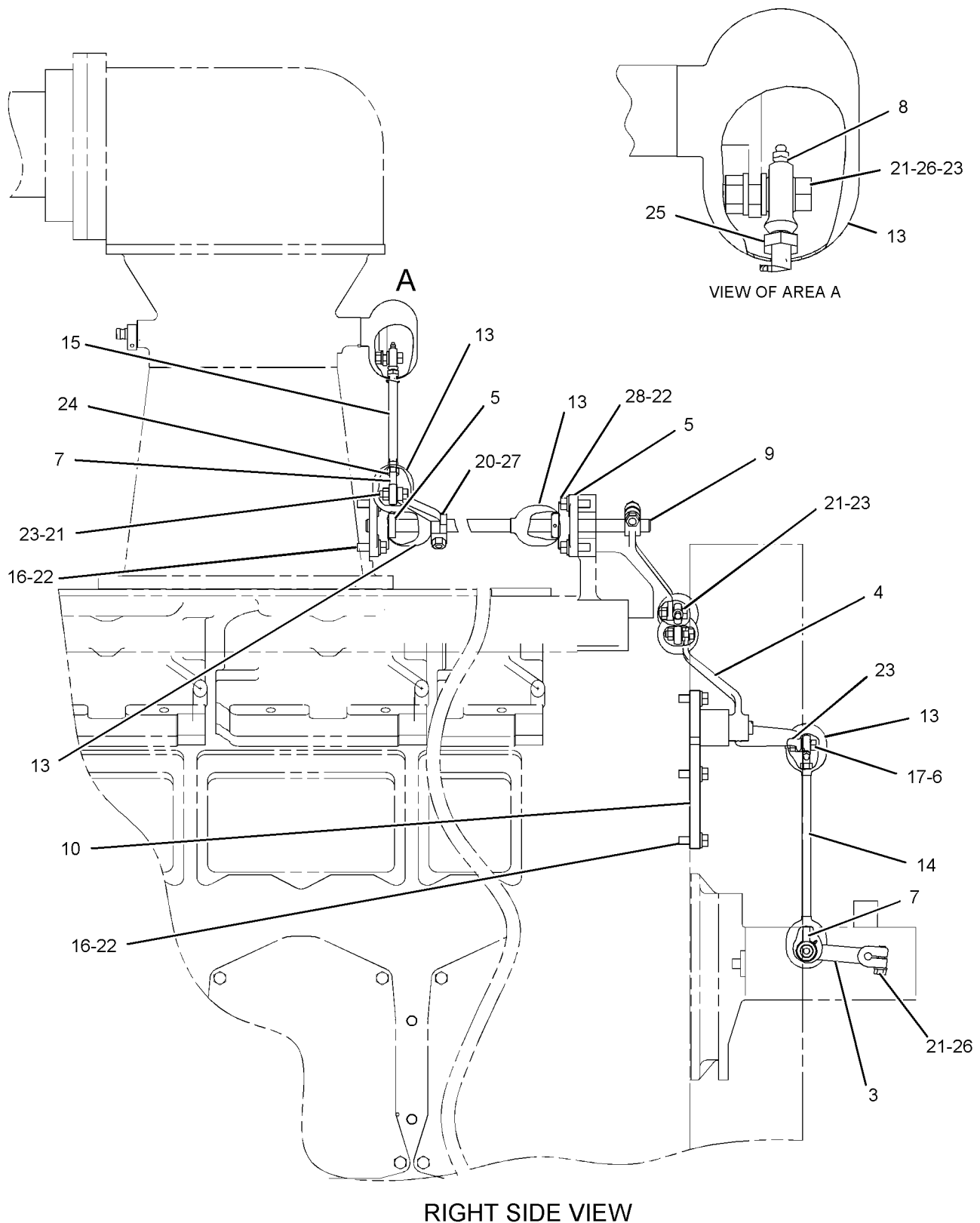
i02074929

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	2	2W-5404	1	LEVER						
	2	2	2W-5405	1	ROD						
	3	1	4P-0708	1	LEVER						
	4	1	4W-4945	1	LEVER AS						
	4A	2	6B-2730	1	BEARING AS						
	4B	2	4W-4946	1	COVER AS						
	5	1	5L-3291	2	BEARING AS-BALL						
	6	1	6V-8955	1	ROD END						
	7	1,2	6V-9163	3	ROD END (BEARING)						
	8	1,2	7E-9748	2	ROD END (BEARING)						
	9	1	7W-0200	1	SHAFT						
	10	1	8N-9885	1	GASKET-COVER						
	11	2	8T-9658	1	SPACER (8.2X12.7X25.4-MM THK)						
	12	2	9Y-2636	1	LEVER						
	13	1,2	114-9269	8	SLEEVE						
	14	1	119-5092	1	ROD						
	15	1	123-8680	1	ROD						
	16	1	1A-2029	11	BOLT (3/8-16X1.125-IN)						
	17	1	1B-7182	1	BOLT (5/16-18X1.25-IN)						
	18	2	1B-8701	2	KEY-WOODRUFF						
	19	2	1D-4538	1	BOLT (5/16-18X2.25-IN)						
	20	1,2	3B-1915	2	BOLT (3/8-16X1.375-IN)						
	21	1	4B-3388	5	BOLT (5/16-18X1.125-IN)						
	22	1	5M-2894	15	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	23	1,2	5S-0003	6	NUT (5/16-18-THD)						
	24	1,2	6V-8186	3	NUT-FULL (5/16-24-THD)						
	25	1,2	8L-4496	3	NUT-JAM (5/16-24 LH-THD) (NON-PLATED)						
	26	1,2	9M-1974	5	WASHER-HARD (8.8X16X2-MM THK)						
	27	1,2	9S-8752	2	NUT-FULL (3/8-16-THD)						
B	28	1	1A-2029	4	BOLT (3/8-16X1.125-IN)						
B-USE AS REQUIRED											

FUEL SYSTEM

4P-7316 CONTROL GP - CARBURETOR (contd.)

i02074929



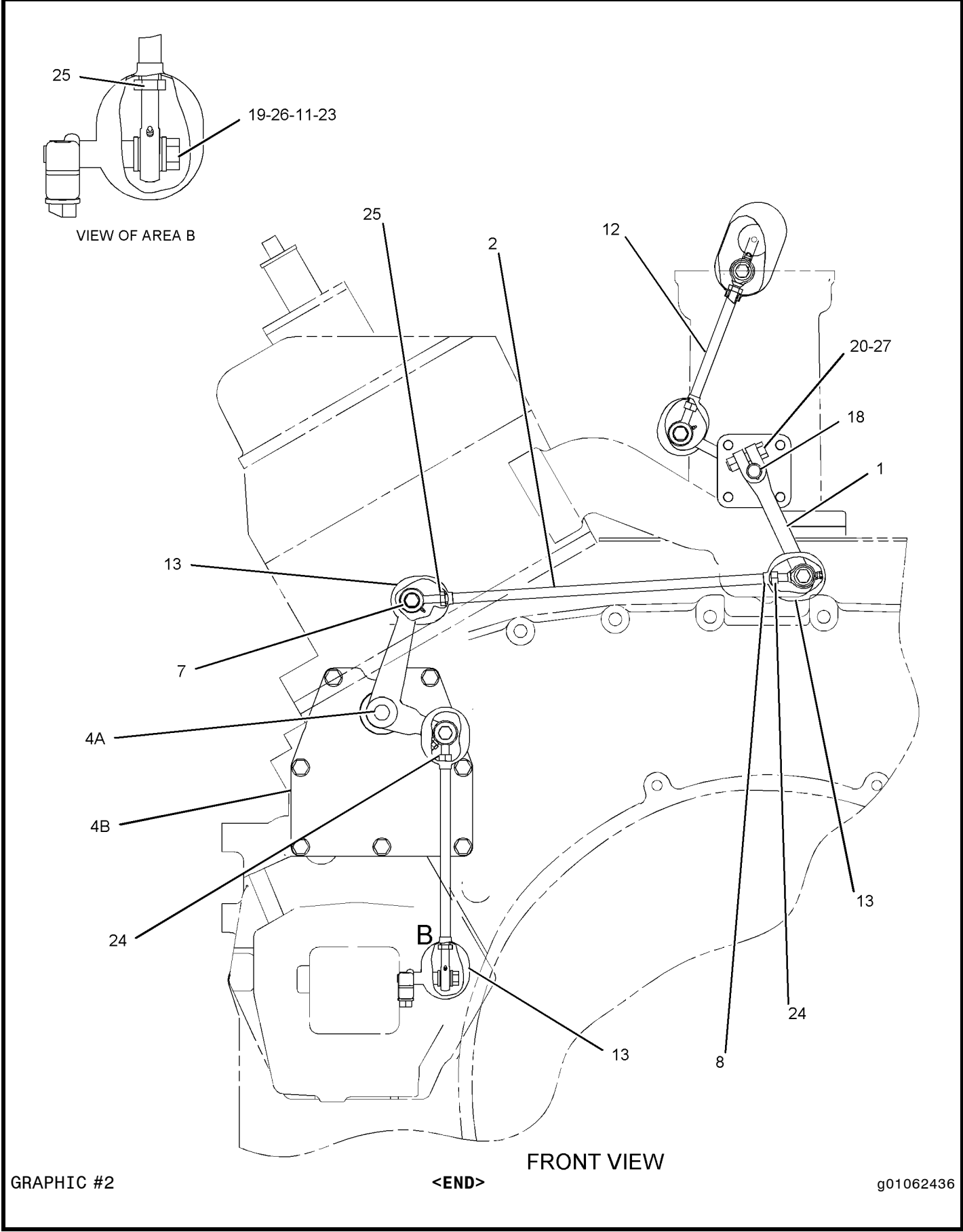
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g01062414

FUEL SYSTEM

4P-7316 CONTROL GP-CARBURETOR (contd.)	i02074929
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4P-7316 CONTROL GP-CARBURETOR (contd.)	i02074929
---	------------------



25

19-26-11-23

VIEW OF AREA B

25

2

12

20-27

18

1

13

7

4A

4B

24

B

13

8

24

13

FRONT VIEW

GRAPHIC #2

<END>

g01062436

25

19-26-11-23

VIEW OF AREA B

25

2

12

20-27

18

1

13

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4A

4B

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24

13

FRONT VIEW

GRAPHIC #2

<END>

g01062436

25

19-26-11-23

VIEW OF AREA B

25

2

12

20-27

18

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13

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4A

4B

24

B

13

8

24

13

FRONT VIEW

<END>

GRAPHIC #2

g01062436

25

19-26-11-23

VIEW OF AREA B

25

2

12

20-27

18

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4A

4B

24

B

13

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24

13

FRONT VIEW

GRAPHIC #2

<END>

g01062436

25

19-26-11-23

VIEW OF AREA B

25

2

12

20-27

18

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13

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4A

4B

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13

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24

13

FRONT VIEW

<END>

g01062436

FUEL SYSTEM

121 - 7548 CONTROL GP - CARBURETOR

S/N: ZBA1-UP

SMCS - 1266

i02064936

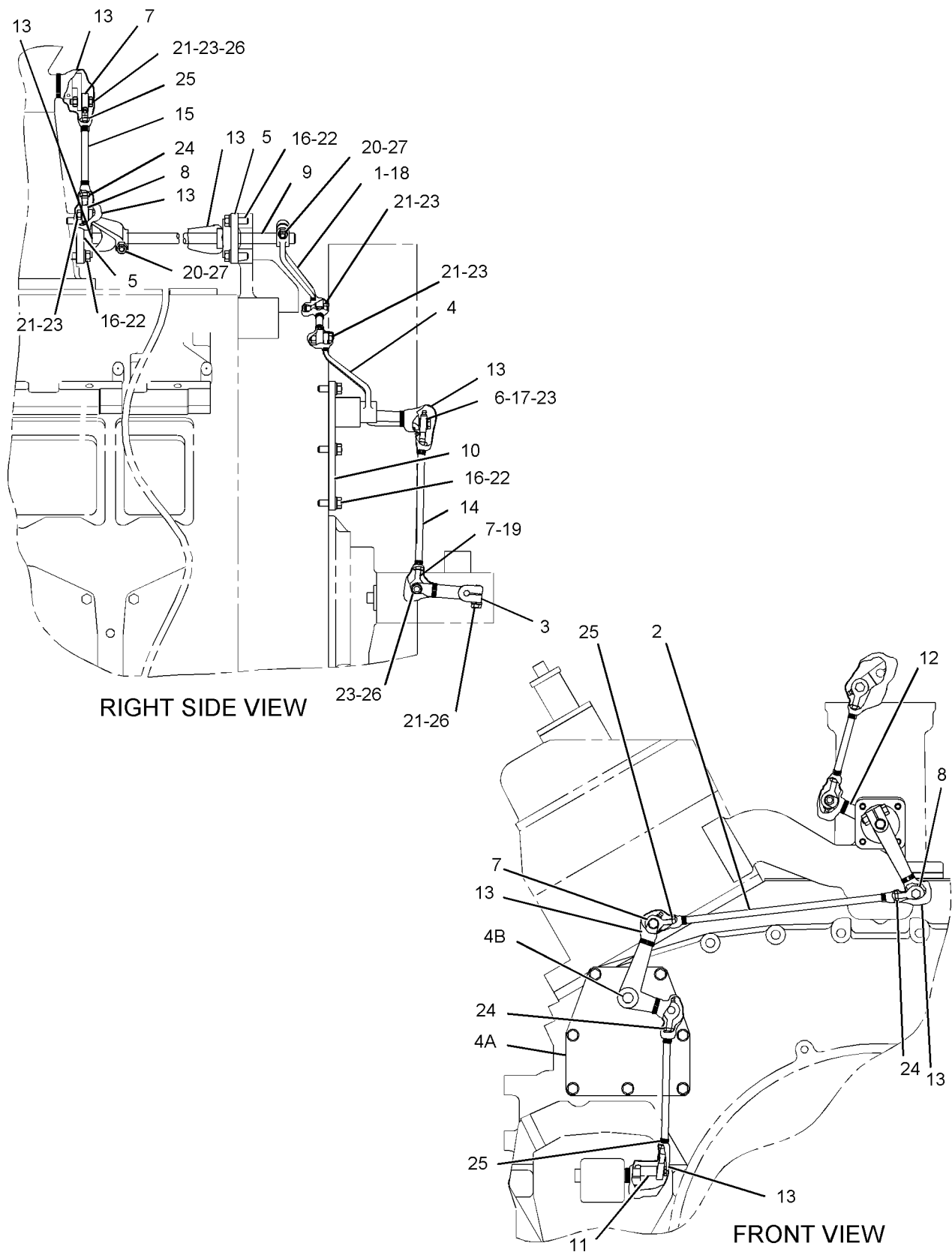
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					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-5404	1	LEVER						
	2	1	2W-5405	1	ROD						
	3	1	4P-0708	1	LEVER						
	4	1	4W-4945	1	LEVER AS						
	4A	1	4W-4946	1	COVER AS						
	4B	1	6B-2730	1	BEARING AS						
	5	1	5L-3291	2	BEARING AS-BALL						
	6	1	6V-8955	1	ROD END						
	7	1	6V-9163	3	ROD END (BEARING)						
	8	1	7E-9748	2	ROD END (BEARING)						
	9	1	7W-0200	1	SHAFT						
	10	1	8N-9885	1	GASKET-COVER						
	11	1	8T-9658	1	SPACER (8.2X12.7X25.4-MM THK)						
	12	1	9Y-2636	1	LEVER						
	13	1	114-9269	8	SLEEVE						
	14	1	119-5092	1	ROD						
	15	1	119-5093	1	ROD						
B	16	1	1A-2029	15	BOLT (3/8-16X1.125-IN)						
	17	1	1B-7182	1	BOLT (5/16-18X1.25-IN)						
	18	1	1B-8701	2	KEY-WOODRUFF						
	19	1	1D-4538	1	BOLT (5/16-18X2.25-IN)						
	20	1	3B-1915	2	BOLT (3/8-16X1.375-IN)						
	21	1	4B-3388	5	BOLT (5/16-18X1.125-IN)						
	22	1	5M-2894	15	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	23	1	5S-0003	6	NUT (5/16-18-THD)						
	24	1	6V-8186	3	NUT-FULL (5/16-24-THD)						
	25	1	8L-4496	3	NUT-JAM (5/16-24 LH-THD)						
	26	1	9M-1974	5	WASHER-HARD (8.8X16X2-MM THK)						
	27	1	9S-8752	2	NUT-FULL (3/8-16-THD)						

B-USE AS REQUIRED

FUEL SYSTEM

121-7548 CONTROL GP-CARBURETOR (contd.)

i02064936



RIGHT SIDE VIEW

FRONT VIEW

GRAPHIC #1

<END>

g01066677

FUEL SYSTEM

150-1233 CONTROL GP-FUEL RATIO

S/N: ZBA1-UP

SMCS-1278

i01176862

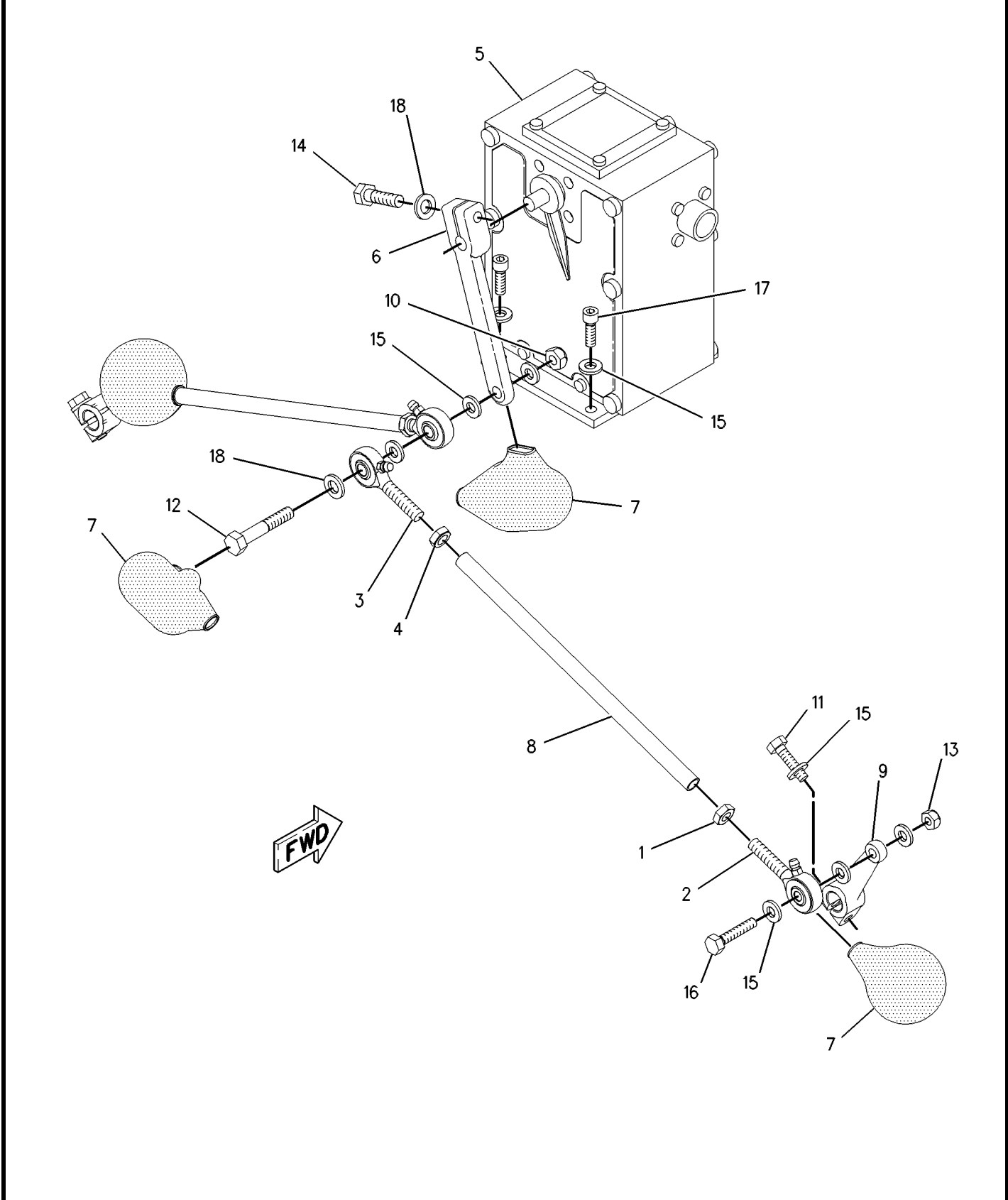
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					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1A-8285	2	NUT-JAM (5/16-24-THD)						
	2	1	6L-3353	2	ROD END-BEARING						
	3	1	6V-9163	2	ROD END (BEARING)						
	4	1	8L-4496	2	NUT-JAM (5/16-24 LH-THD)						
Y	5	1	102-7506	1	ACTUATOR GP-GOVERNOR						547
	6	1	108-4889	1	LEVER						
	7	1	114-9269	4	SLEEVE						
	8	1	150-1234	2	ROD-CARBURETOR CONTROL						
	9	1	150-7242	2	LEVER-THROTTLE						
	10	1	031-4155	1	LOCKNUT (5/16-18-THD)						
	11	1	0S-1616	2	BOLT (1/4-20X1-IN)						
	12	1	1B-9575	1	BOLT (5/16-18X1.56-IN)						
	13	1	2D-6235	2	LOCKNUT (1/4-20-THD)						
	14	1	4B-3388	1	BOLT (5/16-18X1.125-IN)						
	15	1	5P-0537	15	WASHER-HARD (7.2X14.5X2-MM THK)						
	16	1	7B-2742	2	BOLT (1/4-20X1.25-IN)						
	17	1	8H-3127	4	BOLT (1/4-20X0.75-IN)						
	18	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						

Y-SEPARATE ILLUSTRATION

FUEL SYSTEM

150-1233 CONTROL GP-FUEL RATIO (contd.) i01176862

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GRAPHIC #1 <END> g00635332

GRAPHIC #1 <END> g00635332

GRAPHIC #1 <END> g00635332

FUEL SYSTEM

6I-4413 CONVERSION GP-GAS

S/N: ZBA1-UP

PART OF 6I-4412 CONVERSION AR-ENGINE
AN ATTACHMENT

SMCS-1250

i00661410

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	4W-9725	1	GASKET						
	7W-4149	1	GASKET						
	6I-4414	2	JET - PROPANE						
	6I-4415	2	VALVE - PROPANE						
<END>									

FUEL SYSTEM

1W-2135 DRIVE GP-GOVERNOR

S/N: ZBA1-UP

PART OF 1W-8887 ACTUATOR GP-GOVERNOR

SMCS-1288

i02171409

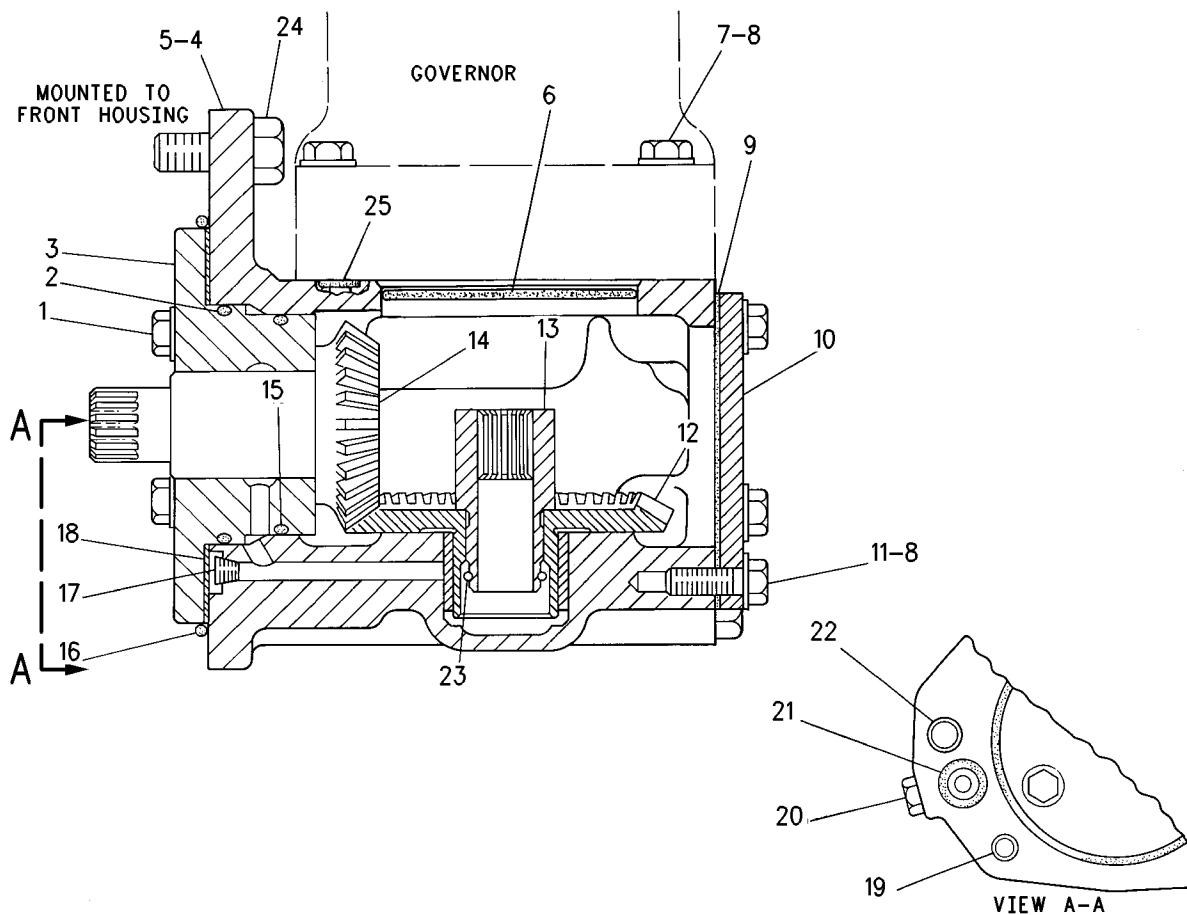
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2B-2695	4	BOLT (5/16-18X0.875-IN)						
		1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)						
	2	1	6J-2244	1	SEAL-O-RING						
	3	1	7N-5700	1	ADAPTER						
	4	1	1W-2133	1	HOUSING AS-DRIVE						
		1	1W-9379	1	BEARING-SLEEVE						
	5	1	1T-0550	2	PIN-SPRING						
	6	1	8C-5197	1	SEAL-O-RING						
	7	1	OL-2070	4	BOLT (3/8-16X2.25-IN)						
	8	1	5M-2894	9	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	9	1	7N-5695	1	GASKET						
	10	1	7N-5696	1	COVER						
	11	1	OS-1594	5	BOLT (3/8-16X1-IN)						
	12	1	1N-3409	1	GEAR-BEVEL (42-TEETH)						
	13	1	8N-9392	1	COUPLING-GOVERNOR DRIVE						
	14	1	7N-5701	1	PINION-GOVERNOR DRIVE						
	15	1	061-9457	1	SEAL-O-RING						
	16	1	6V-8260	1	SEAL-O-RING						
	17	1	8T-6757	3	PLUG-PIPE						
B	18	1	7N-5694	1	SHIM (0.8-MM THK)						
	19	1	1A-7669	2	BOLT (1/2-13X7-IN)						
	20	1	9S-4182	2	PLUG-O RING						
		1	6V-5048	2	SEAL-O-RING						
	21	1	6V-3348	2	SEAL-O-RING						
	22	1	1D-4588	2	BOLT (5/8-11X4.25-IN)						
	23	1	4H-8158	1	RING-RETAINING						
	24	1	OS-1621	2	BOLT (1/2-13X1-IN)						
	25	1	3P-0647	4	SEAL-O-RING						

B-USE AS REQUIRED

FUEL SYSTEM

1W-2135 DRIVE GP-GOVERNOR (contd.)

i02171409



GRAPHIC #1

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g00705547

FUEL SYSTEM

9Y-5896 DRIVE GP-GOVERNOR

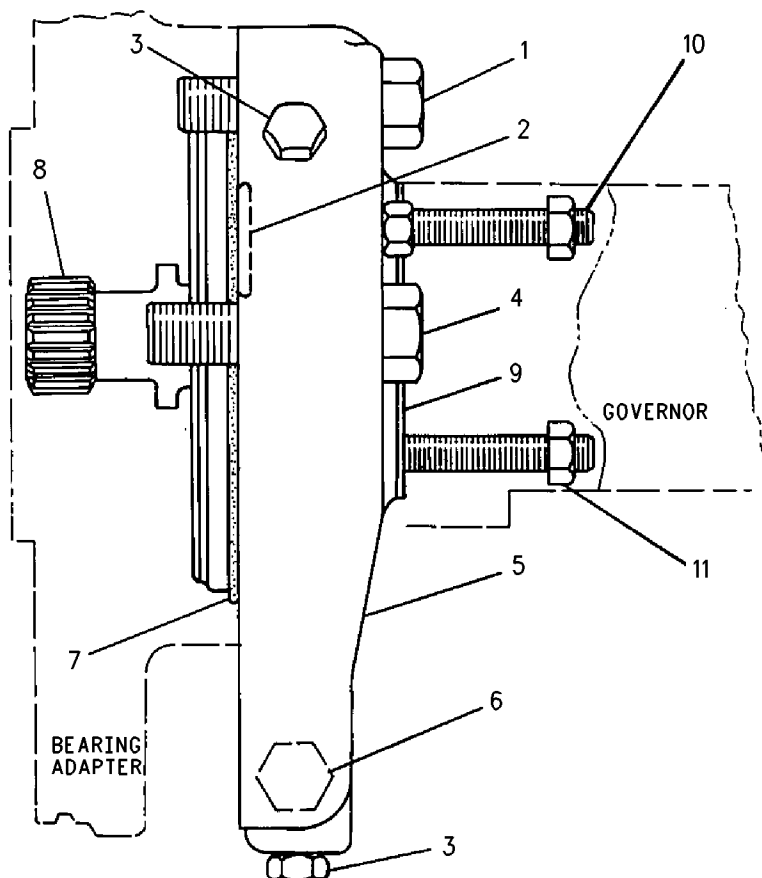
S/N: ZBA1-UP

PART OF 108-4886, 154-3855, 178-4529 ACTUATOR GP-GOVERNOR, 107-4471 GOVERNOR
GP-ELECTRIC, 118-7591 GOVERNOR GP-ELECTRONIC
ALSO AN ATTACHMENT

SMCS-1288

i01469494

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1A-1460	2	BOLT (1/2-13X2-IN)						
	2	1	6V-3348	1	SEAL-O-RING						
	3	1	1N-5999	3	PLUG						
		1	7J-0204	3	SEAL-O-RING						
	4	1	0S-1625	2	BOLT (5/8-11X2.5-IN)						
	5	1	7N-8736	1	HOUSING AS-MOUNTING						
		1	4K-8603	2	PLUG-CUP						
	6	1	3K-8460	1	PLUG						
		1	1J-9671	1	SEAL-O-RING						
	7	1	6V-8260	1	SEAL-O-RING						
	8	1	7N-9739	1	COUPLING-ACTUATOR DRIVE						
	9	1	6N-2645	1	GASKET						
	10	1	6L-9888	2	STUD-TAPERLOCK (5/16-18X2.60-IN)						
	11	1	5S-0003	2	NUT (5/16-18-THD)						



GRAPHIC #1

<END>

g00741494

FUEL SYSTEM

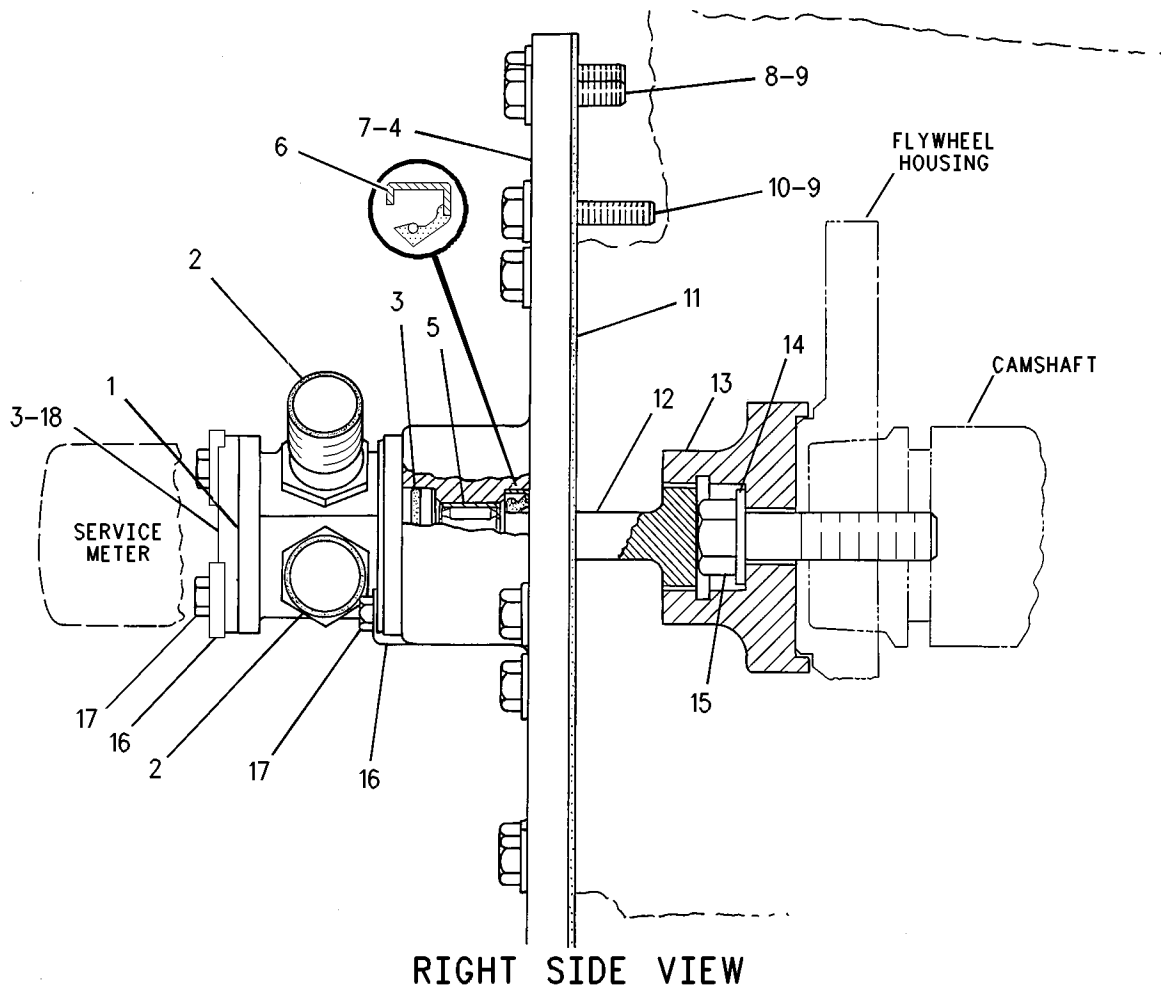
4W-5267 DRIVE GP - TACHOMETER

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-7487

i02220697

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4W-2493	1	ADAPTER AS-DRIVE						
	2	1	7H-9899	2	SEAL						
	3	1	4M-8303	2	SEAL-O-RING						
	4	1	1N-3126	1	COVER AS-CAMSHAFT DRIVE						
	5	1	1F-4622	1	BEARING AS-NEEDLE						
	6	1	4S-7756	1	SEAL-LIP TYPE						
	7	1	5M-4987	2	DOWEL						
	8	1	1A-2029	8	BOLT (3/8-16X1.125-IN)						
	9	1	5M-2894	10	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	10	1	0S-1591	2	BOLT (3/8-16X1.5-IN)						
	11	1	7N-4320	1	GASKET						
	12	1	4W-4589	1	SHAFT-TACHOMETER DRIVE						
	13	1	4W-4587	1	ADAPTER-TACHOMETER DRIVE						
	14	1	5P-8248	1	WASHER-HARD (20X36.5X3.5-MM THK)						
	15	1	9X-8887	1	BOLT (3/4-10X3-IN)						
	16	1	9S-0211	4	CLAMP-METER						
	17	1	0S-1615	4	BOLT (1/4-20X0.75-IN)						
	18	1	7N-4076	1	COVER						



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g00901625

FUEL SYSTEM

4P-4717 FILTER GP-FUEL

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1261

i00077421

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	4P-4720	1	ELEMENT-GAS FILTER						
<END>									

FUEL SYSTEM

143-6143 GOVERNOR GP*R

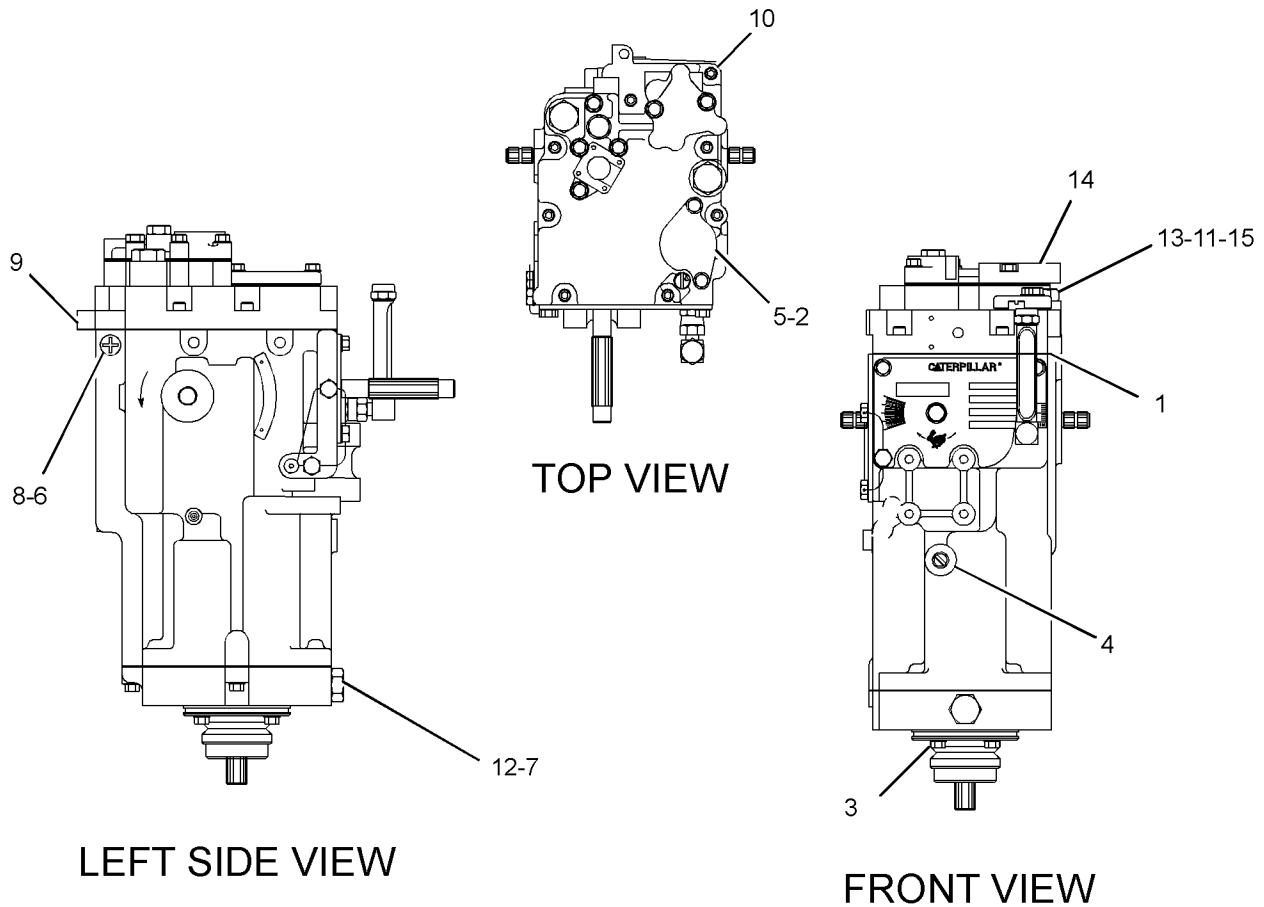
S/N: ZBA1-UP

PART OF 1W-8887 ACTUATOR GP-GOVERNOR

SMCS-1264, 1908

i02401322

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1W-9780	1	GASKET						
	2	1	1W-9782	1	GASKET-SHUTOFF						
	3	1	2W-0138	43	SCREW-FORMING (1/4-20X1-IN)						
	4	1	2W-0224	1	SEAL-O-RING						
	5	1	2W-0776	1	COVER-SHUTDOWN						
	6	1	5P-7812	1	SEAL-O-RING						
	7	1	6V-5048	1	SEAL-O-RING						
	8	1	7C-3018	1	ORIFICE-GOVERNOR						
	9	1	7W-5315	1	COVER-GOVERNOR TOP						
	10	1	8H-0707	9	BOLT (1/4-20X1-IN)						
	11	1	8L-2786	1	SEAL-O-RING						
	12	1	9S-4182	1	PLUG-O RING						
	13	1	171-5286	1	BREATHER (GOVERNOR)						
	14	1	9Y-3044	1	COVER-SPEED SETTING						
	15	1	5P-1838	1	ADAPTER						



GRAPHIC #1

<END>

g01199439

FUEL SYSTEM

107-4471 GOVERNOR GP - ELECTRIC

S/N: ZBA1-UP
AN ATTACHMENT

SMCS - 1908

i02822011

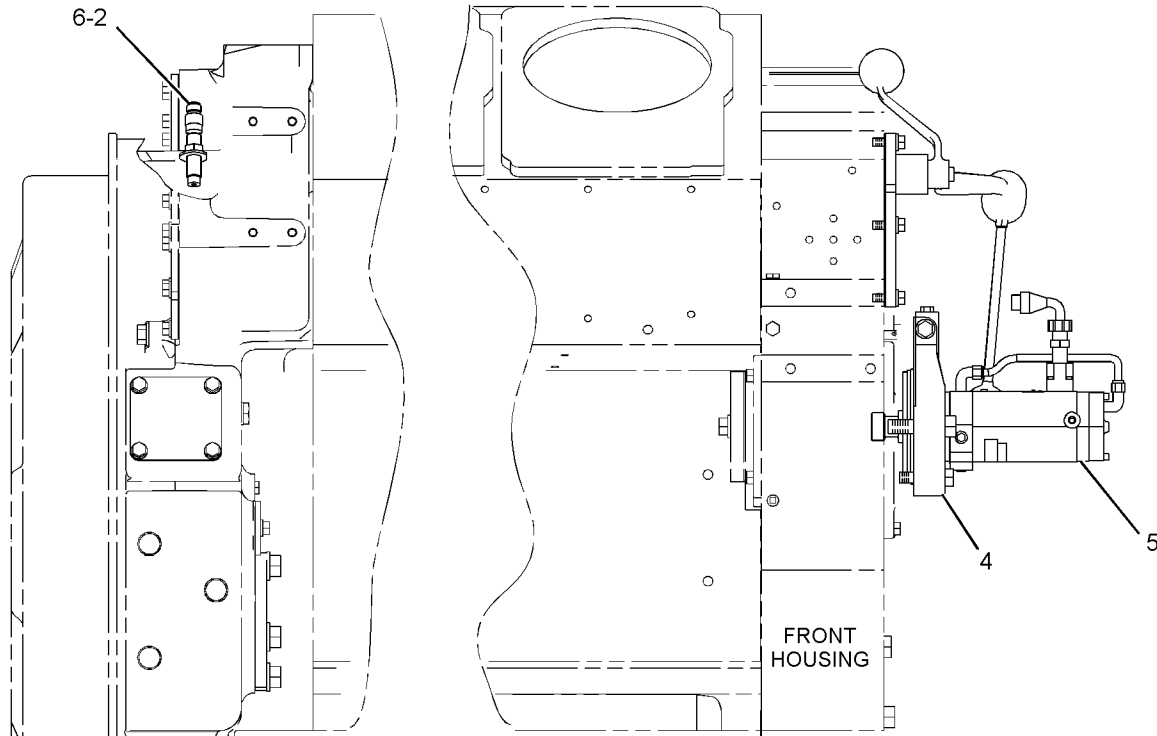
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					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	4P-5251	1	CONTROL GP-CARBURETOR	570
CY	2	1	8L-4171	1	SENSOR GP-SPEED (ENGINE)	834
	3	1	8T-6762	1	PLUG-PIPE	
Y	4	1	9Y-5896	1	DRIVE GP-GOVERNOR	583
CYR	5	1	118-7590	1	ACTUATOR AS	545
	6	1	4B-4281	1	WASHER (16.8X33X2.5-MM THK)	

C- CHANGE FROM PREVIOUS TYPE
R- REMFG PART MAY BE AVAILABLE
Y- SEPARATE ILLUSTRATION

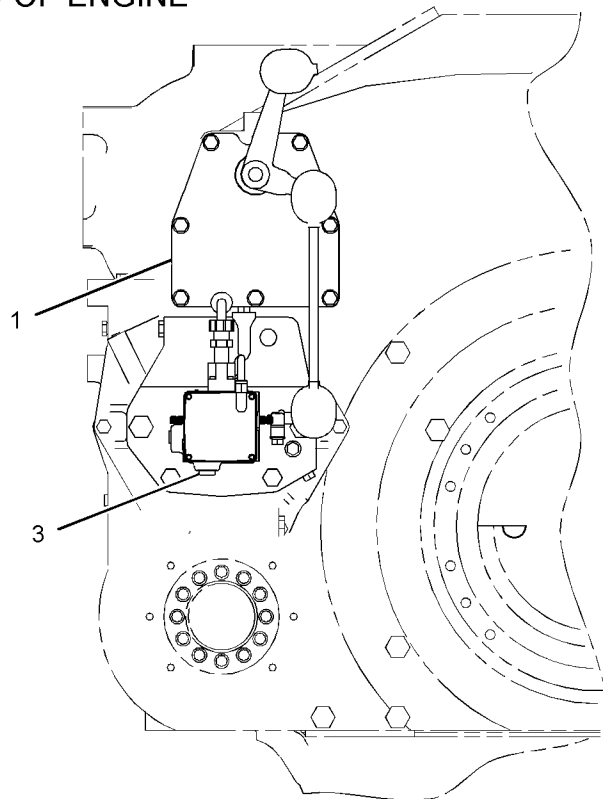
FUEL SYSTEM

107-4471 GOVERNOR GP-ELECTRIC (contd.)

i02822011



RIGHT SIDE VIEW OF ENGINE



FRONT VIEW OF ENGINE

GRAPHIC #1

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g01398677

FUEL SYSTEM

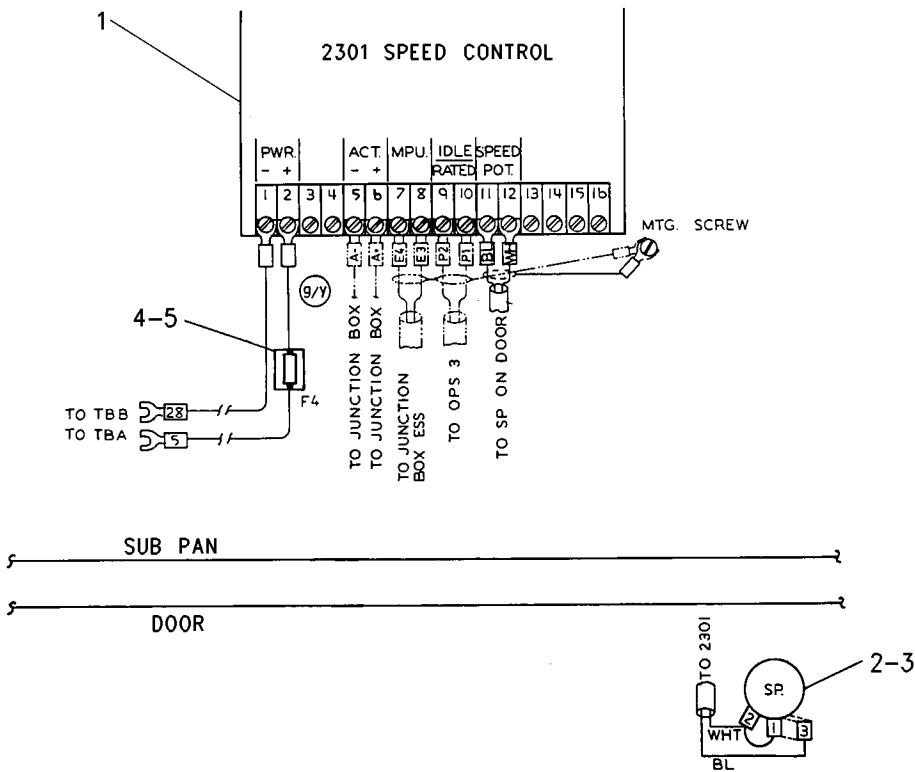
4W-8180 GOVERNOR GP-ELECTRONIC

S/N: 5TA1035-UP; 5YA1175-UP; 5ZA755-UP; 6AA2900-UP; 6PA2600-UP
AN ATTACHMENT

SMCS-1908

i02173109

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	131-5453	1	CONTROL AS-GOVERNOR						
	2	1	4W-5971	1	POTENTIOMETER (ENGINE SPEED CONTROL)						
	3	1	4W-5972	1	KNOB (ENGINE SPEED CONTROL)						
	4	1	7T-0037	1	FUSE (0.75-AMPERE)						
	5	1	4W-8790	1	BLOCK-FUSE						



GRAPHIC #1

<END>

g00737455

FUEL SYSTEM

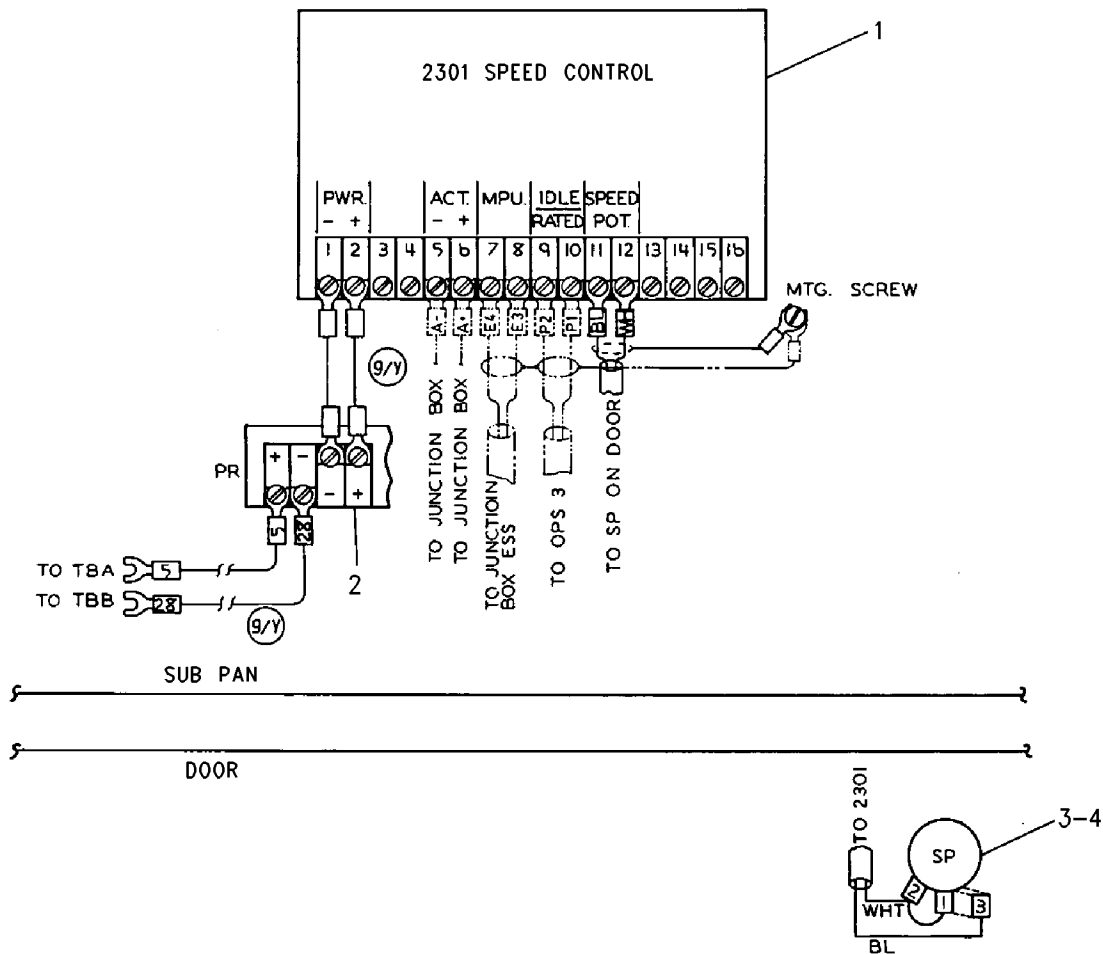
4W-8185 GOVERNOR GP-ELECTRONIC

S/N: 5TA1035-UP; 5YA1175-UP; 5ZA755-UP; 6AA2900-UP; 6PA2600-UP
WITH PREREGULATOR
AN ATTACHMENT

SMCS-1908

i02155740

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	131-5453	1	CONTROL AS-GOVERNOR						
	2	1	4W-5391	1	BOX AS-GOVERNOR PREREGULATOR						
	3	1	4W-5971	1	POTENTIOMETER (ENGINE SPEED CONTROL)						
	4	1	4W-5972	1	KNOB (ENGINE SPEED CONTROL)						



GRAPHIC #1

<END>

g00737460

FUEL SYSTEM

118-7591 GOVERNOR GP-ELECTRONIC

S/N: ZBA1-UP
ALSO AN ATTACHMENT

SMCS-1908

i02822156

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
YR	118-7590	1	ACTUATOR AS						545
Y	131-5451	1	CONTROL AS-GOVERNOR						565
Y	9Y-5896	1	DRIVE GP-GOVERNOR						583
	8T-6762	1	PLUG-PIPE						
Y	8L-4171	4	SENSOR GP-SPEED (ENGINE)						834
R-REMFG PART MAY BE AVAILABLE Y-SEPARATE ILLUSTRATION									

<END>

138-1973 GOVERNOR GP-ELECTRONIC

S/N: 2DM1838-UP
INSTALLED IN CONTROL BOX
AN ATTACHMENT

SMCS-1908

i02235425

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	131-5453	1	CONTROL AS-GOVERNOR						
	126-3103	1	HARNESS AS-PANEL (GOVERNOR) (EMCP II)						
	4W-5972	1	KNOB						
	5H-6555	4	LOCKWASHER						
	127-9068	1	POTENTIOMETER (100-OHM, 2-WATT) (GOVERNOR)						
	2N-3473	4	SCREW-MACHINE (6-32X11.11-MM)						
	7C-4550	1	SEAL						
	4B-5324	4	WASHER (3.9X9.6X1.2-MM THK)						

<END>

166-9270 GOVERNOR GP-ELECTRONIC

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1908

i02758332

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	131-5451	1	CONTROL AS-GOVERNOR						565
	4W-8790	1	BLOCK-FUSE						
	7E-7845	1	FILM-INFORMATION (FUSE) (0.75-AMPERE)						
	7T-0037	1	FUSE (0.75-AMPERE)						
	166-9274	1	HARNESS AS-WIRING (GOVERNOR)						
	4W-5972	1	KNOB						
	127-9068	1	POTENTIOMETER (100-OHM, 2-WATT) (ENGINE SPEED)						
	7C-4550	1	SEAL						
	5L-5840	1	WASHER (9.25X16.92X1.83-MM THK) (SEALING)						

Y-SEPARATE ILLUSTRATION

<END>

FUEL SYSTEM

170-0986 LINES GP-FUEL

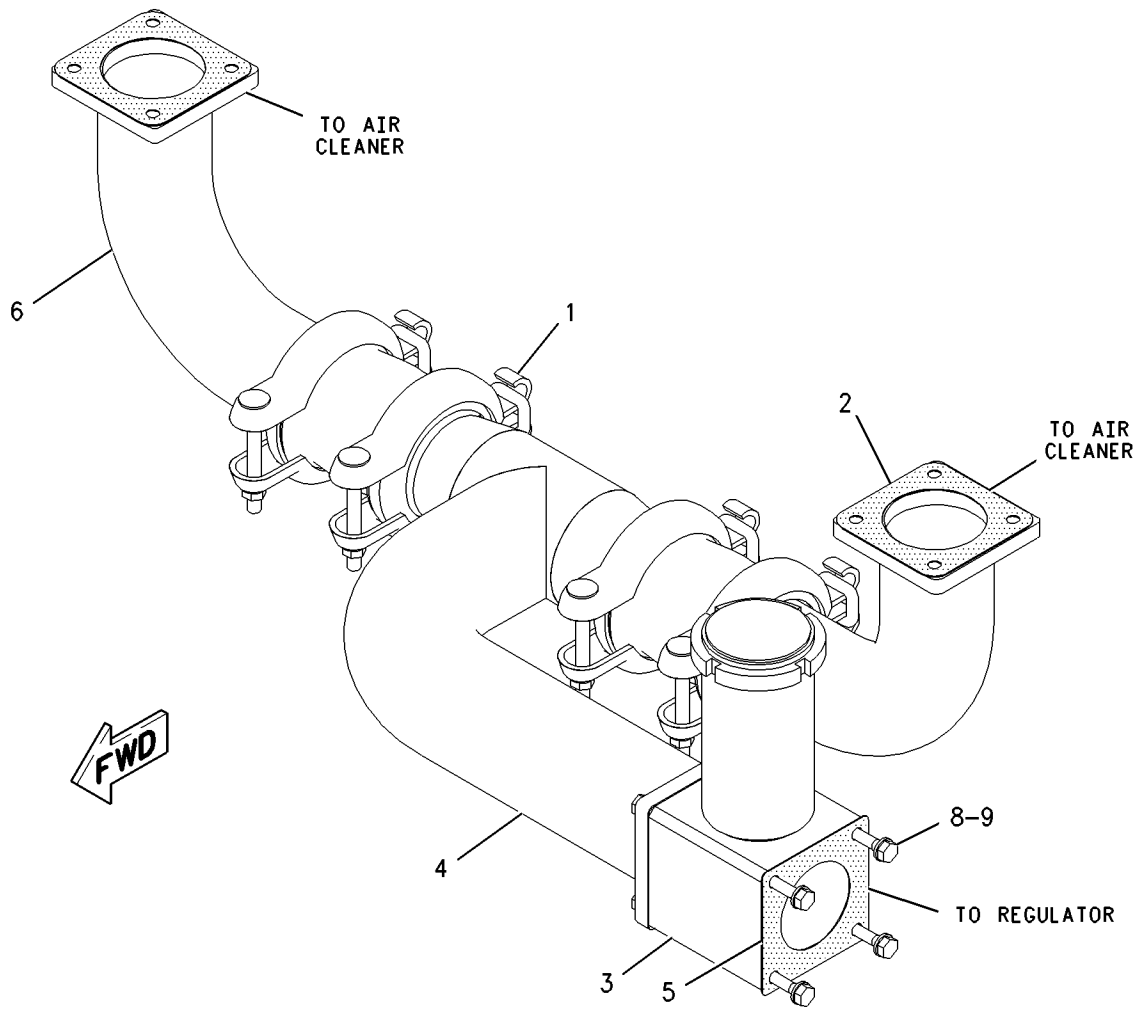
S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1274

i01982663

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7L-3201	2	JOINT AS-TUBE						
					(EACH INCLUDES)						
		1	8L-8585	2	SEAL						
	2	1	105-8180	2	GASKET						
C	3	1	145-9464	1	VALVE AS						
	4	1	170-0987	1	TUBE AS						
C	5	1	174-0028	2	GASKET						
	6	1	188-4008	2	TUBE AS						
CM	8	1	6V-2317	8	BOLT (M8X1.25X30-MM)						
C	9	1	9M-1974	8	WASHER-HARD (8.8X16X2-MM THK)						

C- CHANGE FROM PREVIOUS TYPE
M- METRIC PART



GRAPHIC #1

<END>

g00877734

FUEL SYSTEM

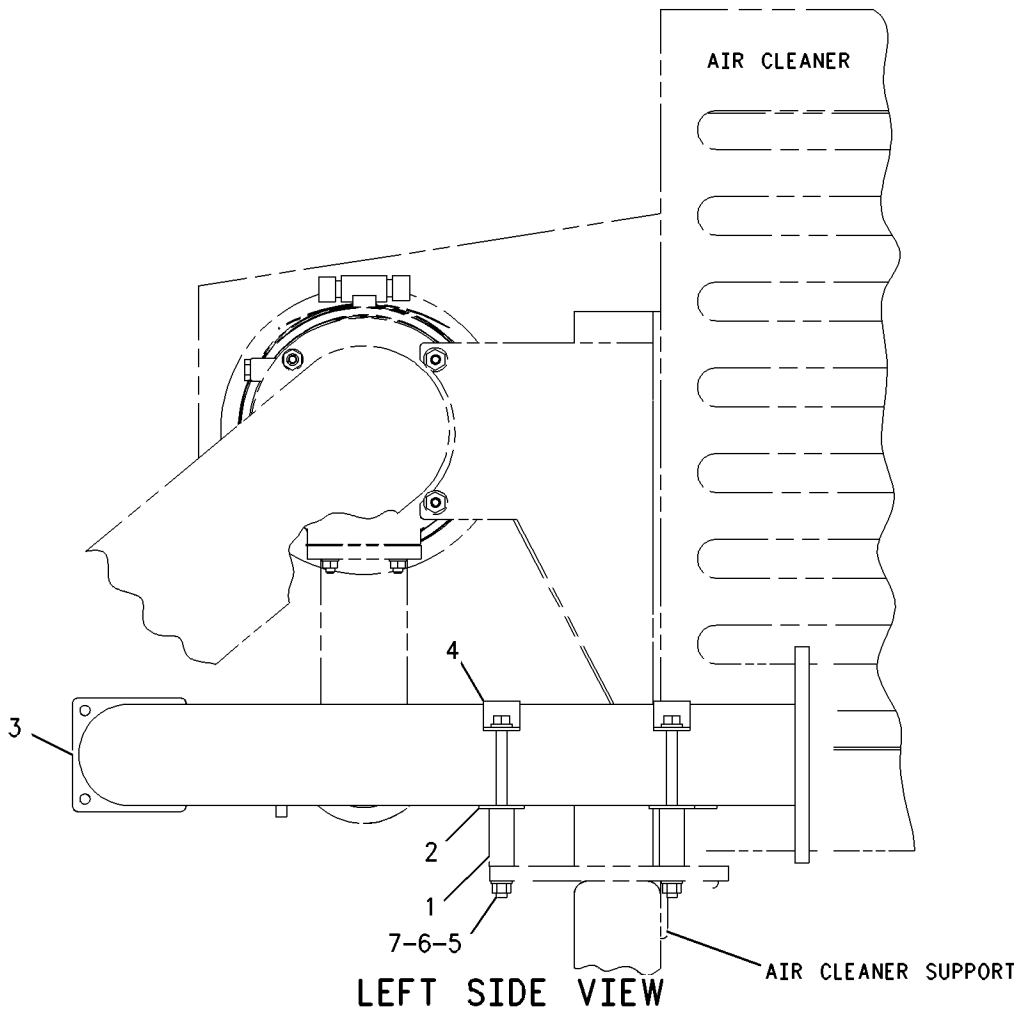
215-2581 LINES GP-FUEL

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1274

i01682324

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4W-4065	4	SPACER (10.5X22X50.8-MM THK)						
	2	1	9W-3671	2	PLATE						
	3	1	170-0988	1	TUBE AS						
	4	1	170-0990	2	CLAMP						
	5	1	1D-4706	4	BOLT (3/8-16X6-IN)						
	6	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	7	1	9S-8752	4	NUT-FULL (3/8-16-THD)						



GRAPHIC #1

<END>

g00899178

FUEL SYSTEM

132-5543 LINES GP-GAS

S/N: ZBA1-UP

SMCS-1274

i02800859

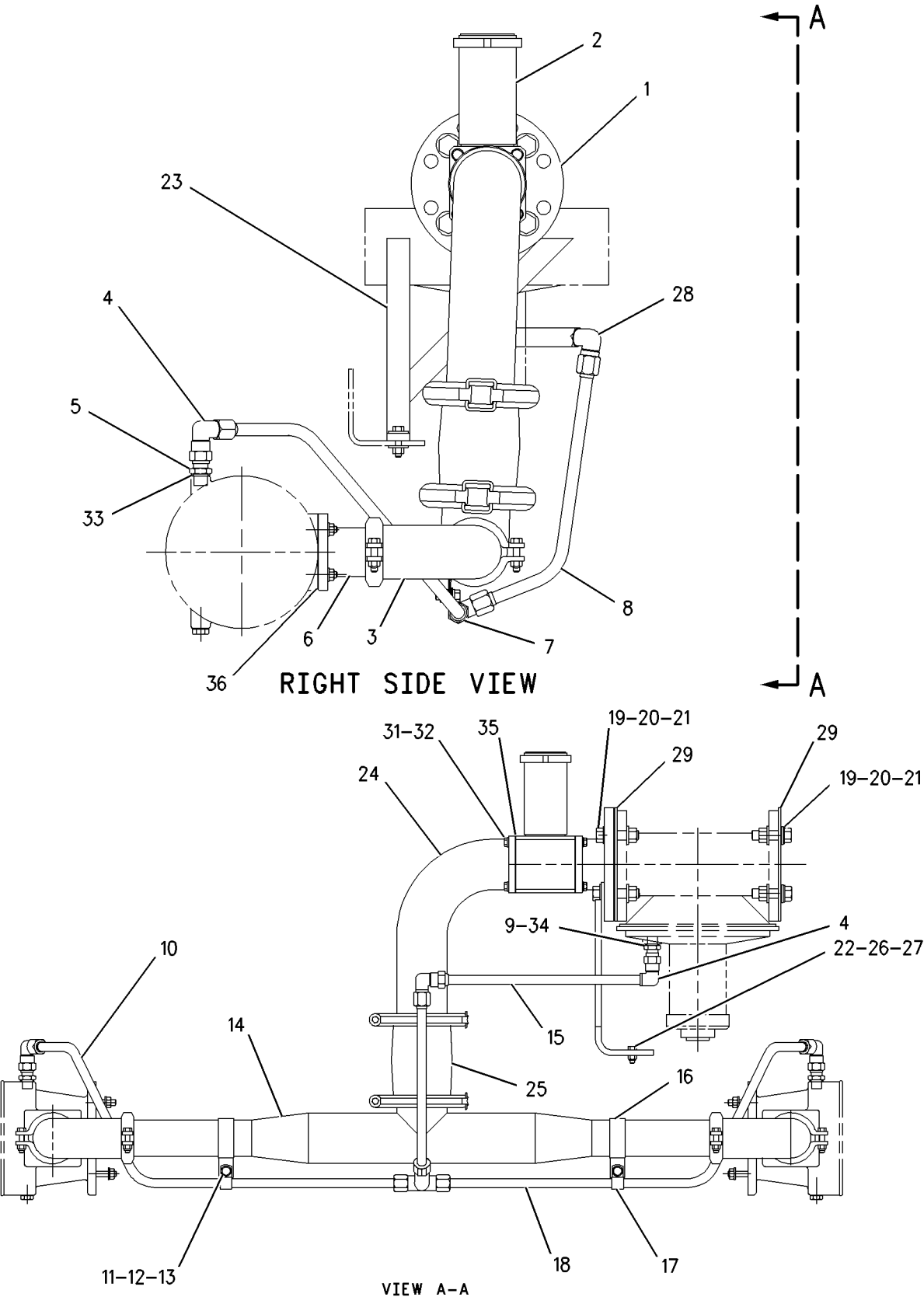
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-8240	1	PIPE AS						
	2	1	145-9464	1	VALVE AS						
	3	1	8C-5098	2	JOINT AS-TUBE						
					(EACH INCLUDES)						
		1	3N-2730	2	SEAL						
	4	1	030-7972	3	ELBOW						
	5	1	174-0030	2	FITTING-FLARED						
	6	1	7E-8239	2	TUBE AS						
	7	1	003-8581	1	TEE-UNION						
	8	1	7E-8238	1	TUBE AS						
	9	1	6V-3526	1	FITTING-FLARED						
	10	1	7E-8236	1	TUBE AS						
	11	1	0S-1594	2	BOLT (3/8-16X1-IN)						
	12	1	5M-2894	4	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	13	1	9S-8752	2	NUT-FULL (3/8-16-THD)						
	14	1	7E-8241	1	TUBE AS						
	15	1	132-5545	1	TUBE AS						
	16	1	3P-9847	2	CLIP						
	17	1	9M-8406	2	CLIP						
	18	1	7E-8237	1	TUBE AS						
	19	1	0S-1625	8	BOLT (5/8-11X2.5-IN)						
	20	1	5P-8247	16	WASHER-HARD (17X32X3.5-MM THK)						
	21	1	4K-0367	8	NUT-FULL (5/8-11-THD)						
	22	1	0S-1585	1	BOLT (1/2-13X1.5-IN)						
	23	1	132-5542	1	BRACKET AS						
	24	1	132-5544	1	TUBE						
	25	1	3N-2451	1	JOINT AS-TUBE						
		1	9X-7537	2	SEAL						
	26	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
	27	1	1F-7958	1	NUT-FULL (1/2-13-THD)						
	28	1	250-1496	1	ELBOW						
	29	1	7E-8235	2	GASKET						
M	31	1	6V-2317	8	BOLT (M8X1.25X30-MM)						
	32	1	9M-1974	8	WASHER-HARD (8.8X16X2-MM THK)						
	33	1	6V-0406	2	SEAL-BONDED						
	34	1	6V-0407	1	SEAL-BONDED						
	35	1	174-0028	2	GASKET						
	36	1	107-8505	2	GASKET						

M-METRIC PART

FUEL SYSTEM

132-5543 LINES GP-GAS (contd.)

i02800859



GRAPHIC #1

<END>

g00671079

FUEL SYSTEM

150-1232 LINES GP-GAS

S/N: ZBA1-UP

SMCS-1274

i02093016

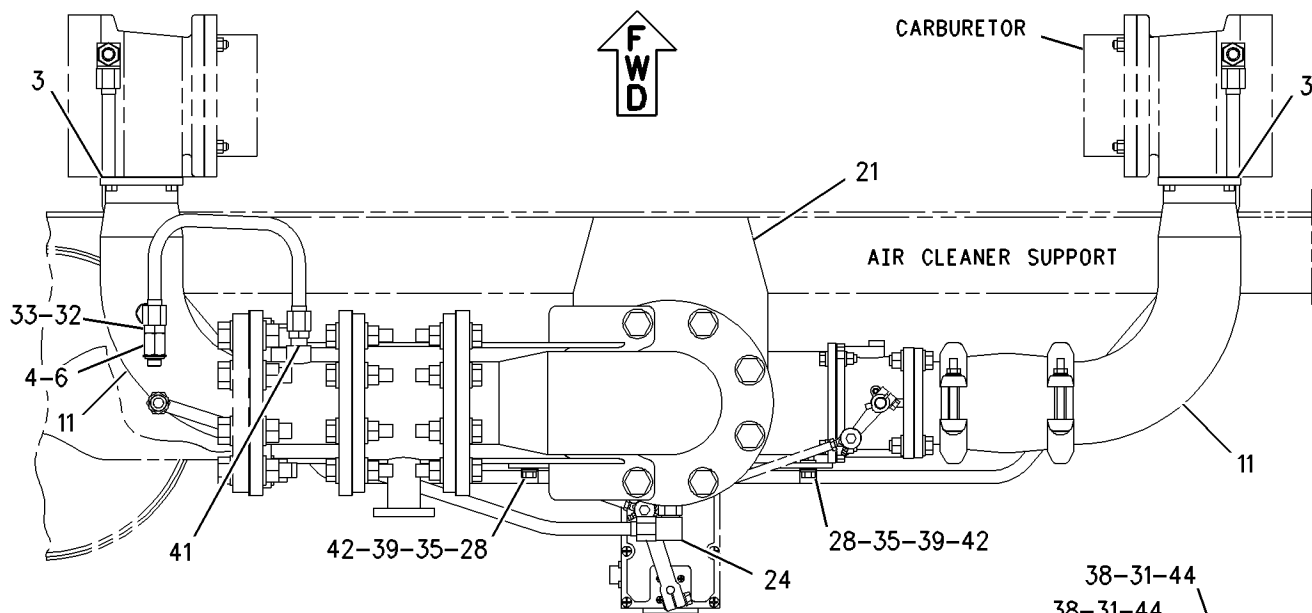
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	4S-0405	2	JOINT AS-TUBE	
					(EACH INCLUDES)	
		1	9X-7538	2	SEAL	
	2	1	4W-7992	2	GASKET	
	3	1	5L-1150	2	GASKET	
	4	1	6V-0406	3	SEAL-BONDED	
Y	5	1	7E-1585	2	THROTTLE AS	617
	6	1	8T-7912	1	ADAPTER	
	7	1	003-8581	1	TEE-UNION	
	8	1	150-1235	2	GASKET	
	9	1	150-1236	1	TUBE AS	
	10	1	150-1237	2	TUBE AS	
	11	1	150-1238	2	TUBE AS	
	12	1	155-6706	1	GASKET	
	13	1	155-6707	2	GASKET	
	14	1	157-2154	1	VALVE-BUTTERFLY	
	15	1	166-1998	1	TUBE AS	
	16	1	166-2234	1	TUBE AS	
	17	1	166-2886	1	TUBE AS	
	18	1	166-2887	1	TUBE AS	
	19	1	166-2888	1	TUBE AS	
	20	1	166-3413	1	TUBE AS	
	21	1	174-7923	1	BRACKET AS	
	22	1	174-7924	1	BRACKET AS	
	23	1	174-0030	2	FITTING-FLARED	
	24	1	030-7972	3	ELBOW	
	25	1	0S-1587	8	BOLT (1/2-13X1.75-IN)	
	26	1	0S-1588	4	BOLT (3/8-16X1.25-IN)	
	27	1	0S-1591	8	BOLT (3/8-16X1.5-IN)	
	28	1	0S-1594	2	BOLT (3/8-16X1-IN)	
	29	1	1A-8063	2	BOLT (3/4-10X2.5-IN)	
	30	1	1F-7958	8	NUT-FULL (1/2-13-THD)	
	31	1	2J-3506	8	NUT-FULL (3/4-10-THD)	
	32	1	2P-7636	1	CONNECTOR	
	33	1	3K-0360	1	SEAL-O-RING	
	34	1	4K-0367	16	NUT-FULL (5/8-11-THD)	
	35	1	5M-2894	24	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	36	1	5P-8245	16	WASHER-HARD (13.5X25.5X3-MM THK)	
	37	1	5P-8247	32	WASHER-HARD (17X32X3.5-MM THK)	
	38	1	5P-8248	16	WASHER-HARD (20X36.5X3.5-MM THK)	
	39	1	6K-8178	2	CLIP	
	40	1	7W-6492	3	PLUG-PIPE	
	41	1	9M-6522	2	CONNECTOR	
	42	1	9S-8752	10	NUT-FULL (3/8-16-THD)	
	43	1	9X-8883	16	BOLT (5/8-11X2.75-IN)	
	44	1	9X-8886	4	BOLT (3/4-10X2.75-IN)	
	45	1	9X-8887	2	BOLT (3/4-10X3-IN)	

Y-SEPARATE ILLUSTRATION

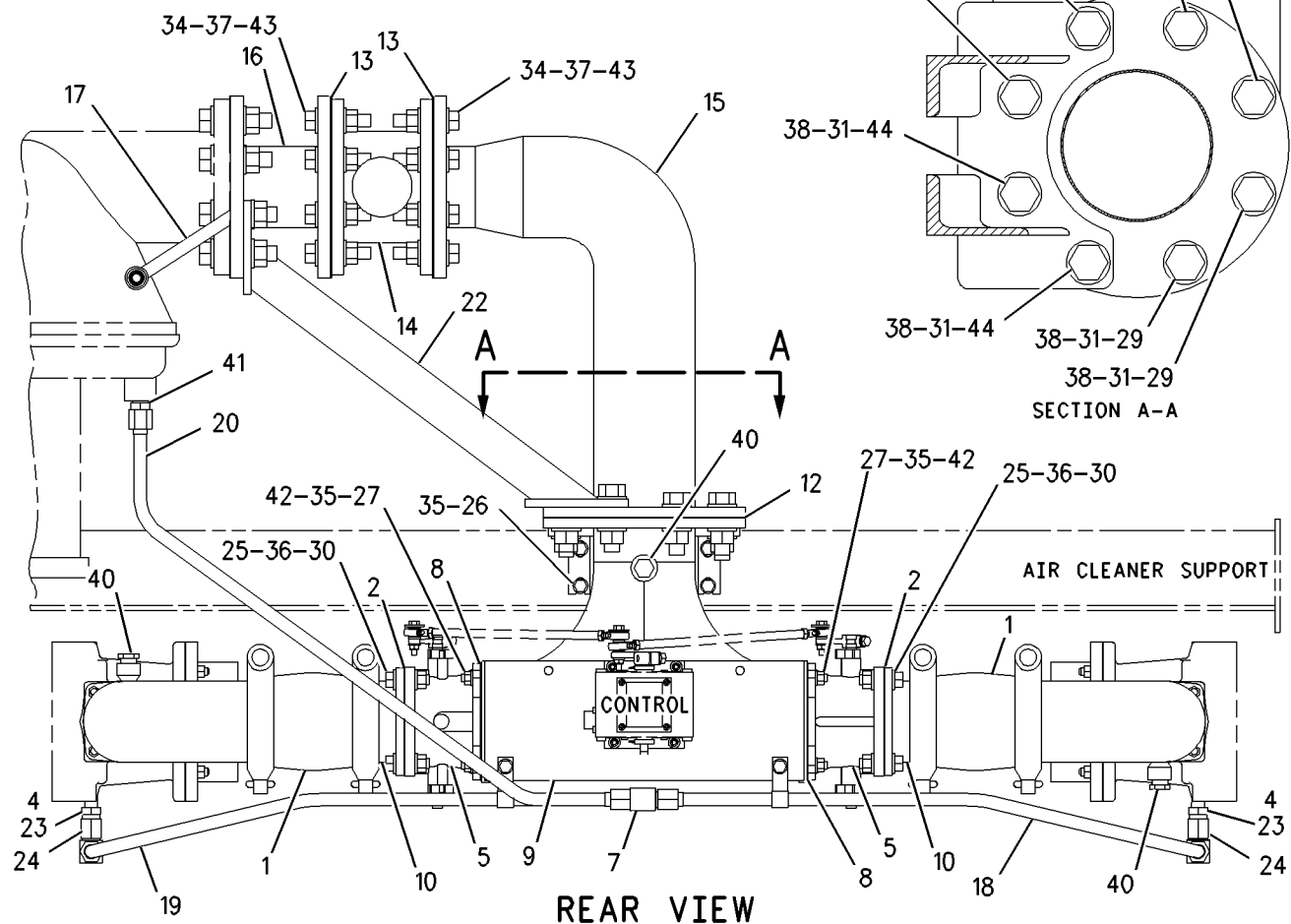
FUEL SYSTEM

150-1232 LINES GP-GAS (contd.)

i02093016



TOP VIEW



REAR VIEW

SECTION A-A

GRAPHIC #1

<END>

g01005066

FUEL SYSTEM

184-1574 LINES GP-GAS

S/N: ZBA1-UP

SMCS-1274

i02224498

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3K-0360	1	SEAL-O-RING						
	2	1	6V-0406	3	SEAL-BONDED						
	3	1	7E-0436	2	GASKET						
	4	1	7L-3201	2	JOINT AS-TUBE						
					(EACH INCLUDES)						
		1	8L-8585	2	SEAL						
	5	1	8T-7912	1	ADAPTER						
	6	1	003-8581	1	TEE-UNION						
	7	1	110-9247	1	SCREW-ADJUSTMENT						
	8	1	110-9249	1	TUBE AS						
	9	1	110-9250	2	GASKET						
	10	1	110-9252	1	TUBE AS						
	11	1	110-9254	1	TUBE AS						
	12	1	110-9259	1	TUBE AS						
	13	1	110-9261	1	TUBE AS						
	15	1	174-0030	2	FITTING-FLARED						
	16	1	183-7902	2	TUBE AS						
	17	1	183-9136	1	BRACKET AS						
	18	1	185-0901	1	TUBE AS						
	19	1	189-4385	1	BRACKET						
	20	1	030-7972	3	ELBOW						
	21	1	0S-1588	2	BOLT (3/8-16X1.25-IN)						
	22	1	0S-1591	2	BOLT (3/8-16X1.5-IN)						
	23	1	0S-1594	2	BOLT (3/8-16X1-IN)						
	24	1	1A-9579	8	BOLT (5/16-18X1.5-IN)						
	26	1	1B-2886	2	BOLT (1/2-13X3.75-IN)						
	27	1	1B-4367	8	BOLT (5/8-11X3-IN)						
	28	1	2P-7636	1	CONNECTOR						
	29	1	4K-0367	12	NUT-FULL (5/8-11-THD)						
	30	1	5M-2894	4	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	31	1	5P-8247	24	WASHER-HARD (17X32X3.5-MM THK)						
	32	1	5S-0003	8	NUT (5/16-18-THD)						
	33	1	6K-8178	2	CLIP						
	34	1	7D-1649	2	WASHER-HARD (13.5X32X5-MM THK)						
	35	1	9L-9132	6	WASHER (10.2X25.5X2.5-MM THK)						
	36	1	9M-1974	8	WASHER-HARD (8.8X16X2-MM THK)						
	37	1	9M-6522	2	CONNECTOR						
	38	1	9S-8752	6	NUT-FULL (3/8-16-THD)						
	39	1	9X-6458	2	WASHER-HARD (10.2X22.5X3-MM THK)						
	40	1	9X-8882	4	BOLT (5/8-11X2.5-IN)						

FUEL SYSTEM

184 - 1574 LINES GP - GAS (contd.) i02224498

The drawing consists of two views of a fuel system. The top view is the 'LEFT SIDE VIEW', showing a carburetor on the left, a regulator on the right, and various fuel lines and fittings. A 'FWD' arrow points left. The bottom view is the 'REAR VIEW', showing the rear of the carburetor and regulator assembly with fuel lines extending outwards. Components are labeled with numbers: 3, 7, 3, 12-9, 27-31-29, 29-31-40, 9, 24-36-32, 37, 30-38, 21-39, 23-35, 19, 33, 22-38-35, 18, 20, 37, 6, 17, 26-34, 15-2, 4, 1-28, 2-5, 11, 4, 16, 13, 10, 8.

LEFT SIDE VIEW

REAR VIEW

GRAPHIC #1 <END> g01122069

i02224498



CARBURETOR

REGULATOR

LEFT SIDE VIEW

REAR VIEW

g01122069

FUEL SYSTEM

7E-3407 REGULATOR AS-GAS PRESSURE

S/N: ZBA1-UP

PART OF 7E-3404 REGULATOR GP-GAS PRESSURE

SMCS-1270

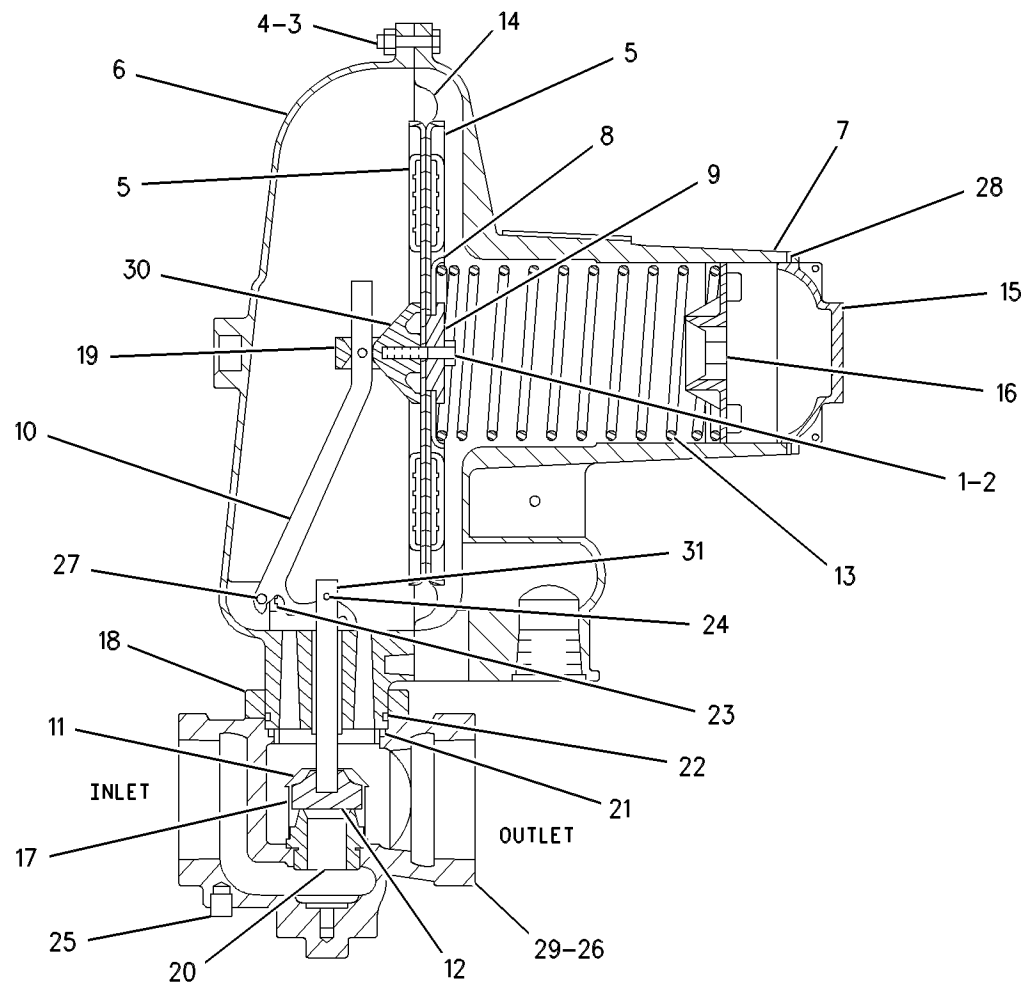
i02235893

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3B-4505	1	LOCKWASHER						
	2	1	4M-6425	1	BOLT (5/16-18X1-IN)						
	3	1	6V-8185	12	NUT (1/4-20-THD)						
	4	1	8T-8908	12	BOLT (1/4-20X1-IN)						
	5	1	123-3952	2	PLATE-DIAPHRAGM						
	6	1	123-3953	1	CASE-DIAPHRAGM						
	7	1	123-3954	1	CASE-DIAPHRAGM						
	8	1	123-3958	1	GUIDE-SPRING						
	9	1	123-3963	1	PLATE-DIAPHRAGM						
	10	1	123-3966	1	LEVER-VALVE						
	11	1	123-3967	1	RING-DEFLECTOR						
	12	1	123-3968	1	SEAT-VALVE						
	13	1	123-3969	1	SPRING						
	14	1	123-3970	1	DIAPHRAGM						
	15	1	123-3972	1	CAP-SEAL						
	16	1	123-3973	1	SCREW-ADJUSTMENT						
	17	1	123-3974	1	RING-LOAD						
	18	1	123-3975	1	PLATE-RETAINER						
	19	1	123-3977	1	PLATE-DIAPHRAGM						
	20	1	123-3978	1	ORIFICE						
	21	1	123-5958	1	GASKET-STEPPED						
	22	1	123-5959	1	RING-SNAP						
	23	1	123-5963	1	SCREW (5/16-18X0.5-IN)						
	24	1	123-5965	1	PIN-ROLL						
	25	1	123-5967	1	PLUG-PIPE						
	26	1	123-5972	2	SCREW (5/16-18X0.5-IN)						
	27	1	123-5973	1	PIN-LINKAGE						
	28	1	123-5974	1	SEAL-O-RING						
	29	1	123-5976	1	BODY-VALVE						
	30	1	124-4129	1	GASKET-DIAPHRAGM						
	31	1	173-4548	1	STEM-VALVE						

FUEL SYSTEM

7E-3407 REGULATOR AS-GAS PRESSURE (contd.)

i02235893



GRAPHIC #1

<END>

g00586881

FUEL SYSTEM

2W-5710 REGULATOR GP - GAS PRESSURE

S/N: ZBA1-UP

LANDFILL

SMCS-1270

i01512168

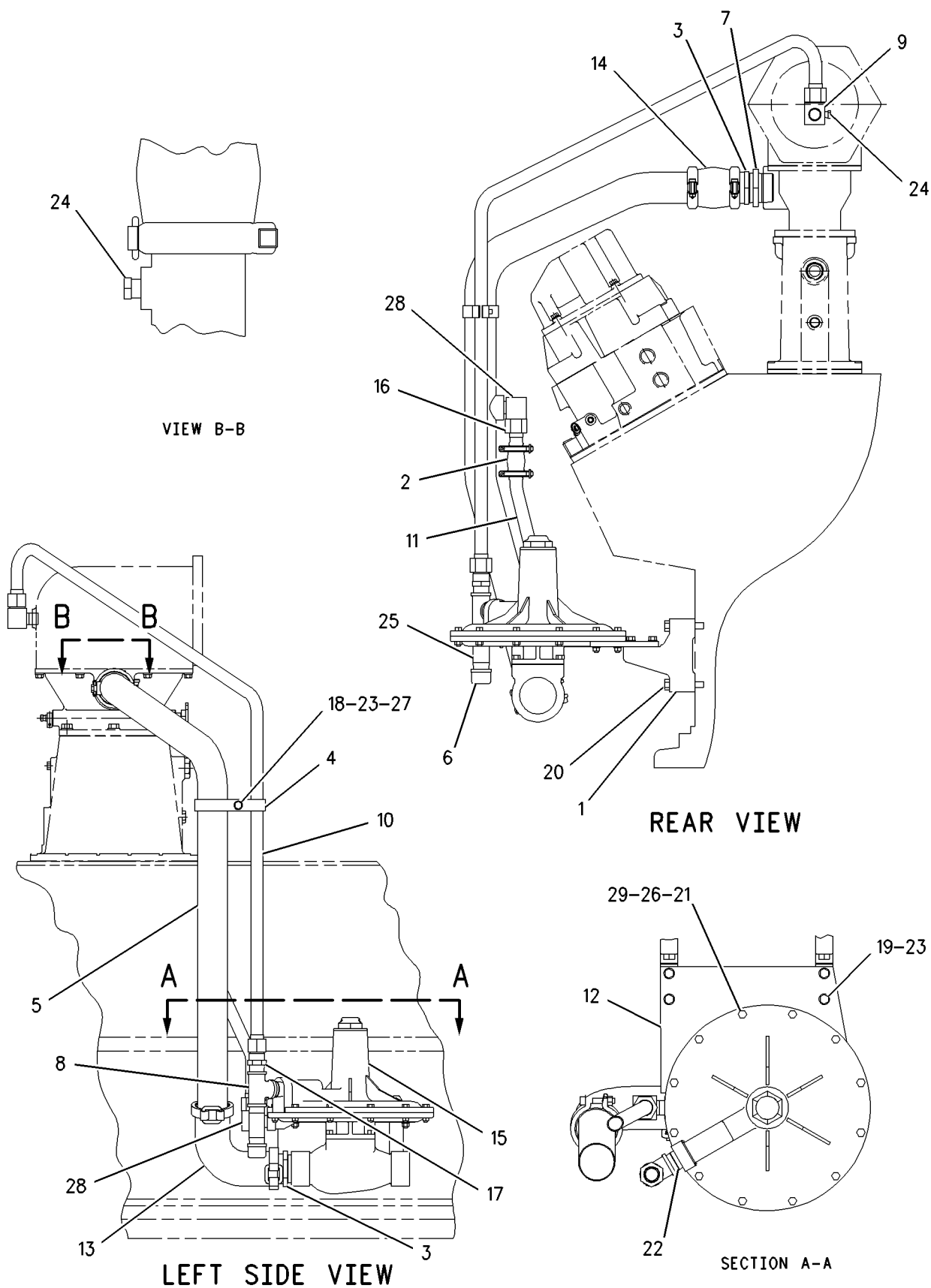
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	1N-3872	2	SUPPORT	
	2	1	2S-7070	1	JOINT AS-TUBE	
		1	9S-2082	2	SEAL (0.343-IN ID)	
	3	1	2W-5709	2	ADAPTER	
	4	1	2W-5711	2	CLAMP	
	5	1	2W-5714	1	TUBE AS	
	6	1	3B-6486	1	CAP-PIPE	
	7	1	3N-9409	1	BUSHING-TERMINAL	
	8	1	4B-7770	1	TEE	
	9	1	6V-1760	1	ELBOW-FLARED	
	10	1	7C-6238	1	TUBE AS	
	11	1	7C-6240	1	TUBE AS	
	12	1	7W-3371	1	PLATE	
	13	1	8C-5098	1	JOINT AS-TUBE	
		1	3N-2730	2	SEAL	
	14	1	9S-9635	1	JOINT AS-TUBE	
		1	9X-7532	2	SEAL	
CY	15	1	100-8227	1	REGULATOR GP-GAS PRESSURE	609
	16	1	176-2949	1	TUBE AS	
	17	1	009-4440	1	CONNECTOR	
	18	1	0S-1588	1	BOLT (3/8-16X1.25-IN)	
	19	1	0S-1594	4	BOLT (3/8-16X1-IN)	
	20	1	1A-5822	4	BOLT (1/2-13X2.75-IN)	
	21	1	1B-9575	5	BOLT (5/16-18X1.56-IN)	
	22	1	3B-7749	1	FITTING (NIPPLE)	
	23	1	5M-2894	6	WASHER-HARD (10.2X18.5X2.5-MM THK)	
	24	1	8T-6765	2	PLUG-PIPE	
	25	1	6B-3156	1	NIPPLE-PIPE	
	26	1	6V-8189	5	NUT (5/16-18-THD)	
	27	1	6V-8801	1	NUT (3/8-16-THD)	
	28	1	9L-4007	2	ELBOW-FLARED	
	29	1	9M-1974	5	WASHER-HARD (8.8X16X2-MM THK)	

C- CHANGE FROM PREVIOUS TYPE
Y- SEPARATE ILLUSTRATION

FUEL SYSTEM

2W-5710 REGULATOR GP-GAS PRESSURE (contd.)

i01512168



GRAPHIC #1

<END>

g00784787

FUEL SYSTEM

4P-9090 REGULATOR GP-GAS PRESSURE

S/N: ZBA1-UP
ALSO AN ATTACHMENT

SMCS-1270

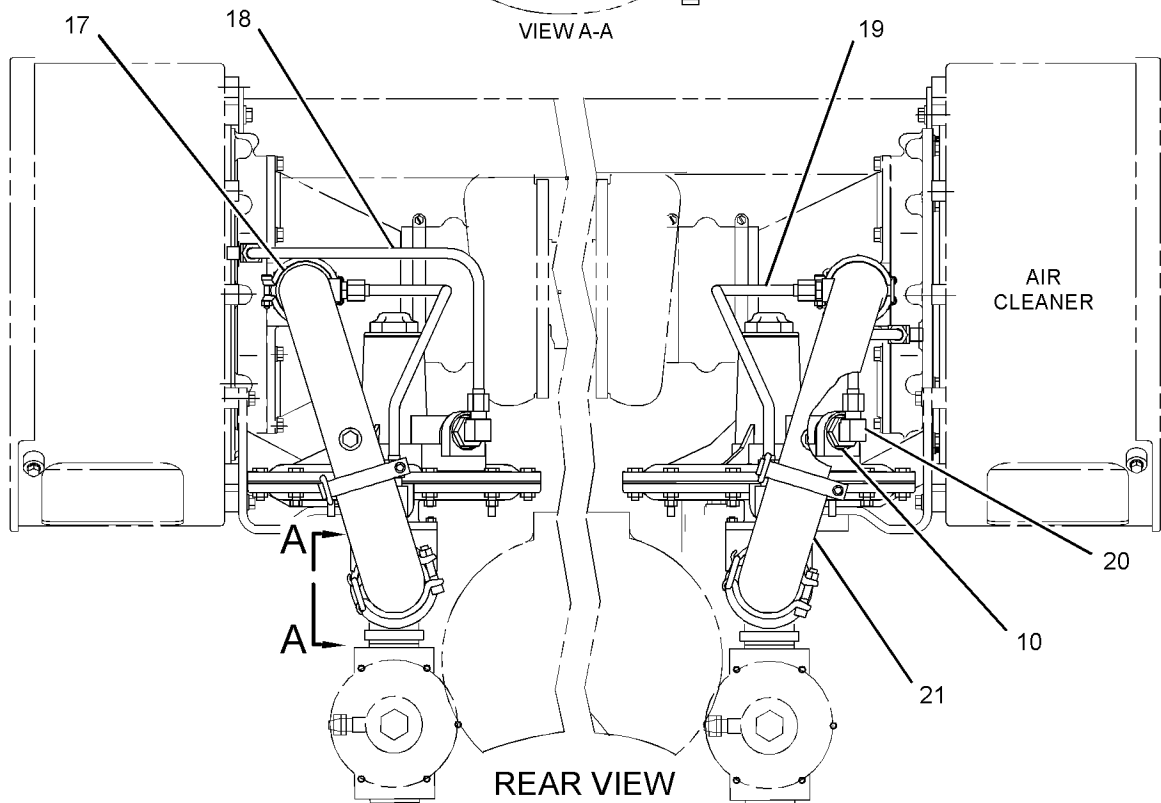
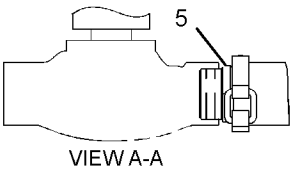
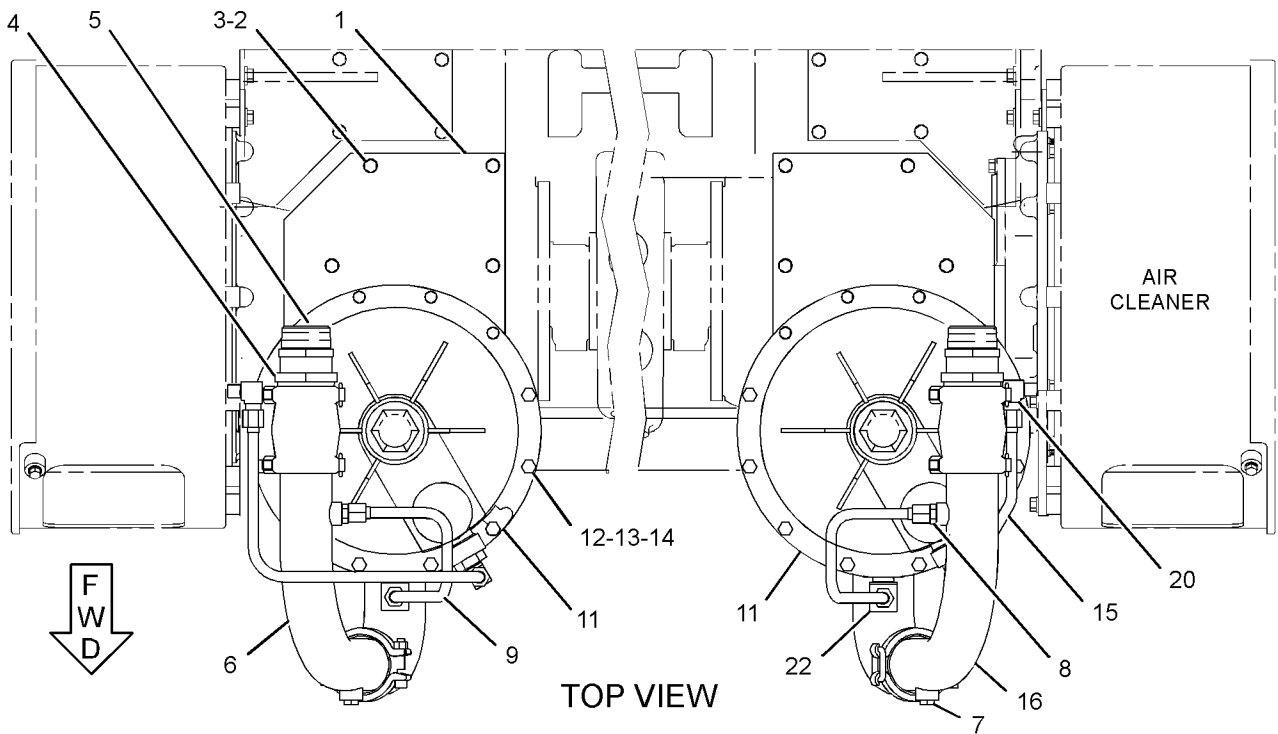
i02764657

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4P-9092	2	PLATE						
	2	1	0S-1588	8	BOLT (3/8-16X1.25-IN)						
	3	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	4	1	3N-9409	2	BUSHING-TERMINAL						
	5	1	2W-5709	4	ADAPTER						
	6	1	4P-9327	1	TUBE AS						
	7	1	8T-6767	2	PLUG-PIPE						
	8	1	8M-0755	2	CONNECTOR						
	9	1	4P-9098	1	TUBE AS						
	10	1	6B-1628	2	BUSHING-REDUCING						
Y	11	1	100-8227	2	REGULATOR GP-GAS PRESSURE						609
	12	1	1B-9575	8	BOLT (5/16-18X1.56-IN)						
	13	1	5S-0003	8	NUT (5/16-18-THD)						
	14	1	9M-1974	8	WASHER-HARD (8.8X16X2-MM THK)						
	15	1	4P-9099	1	TUBE AS						
	16	1	4P-9101	1	TUBE AS						
	17	1	9S-9635	2	JOINT AS-TUBE						
					(EACH INCLUDES)						
		1	9X-7523	2	SEAL						
	18	1	4P-9102	1	TUBE AS						
	19	1	4P-9100	1	TUBE AS						
	20	1	7L-7262	4	ELBOW-FLARED						
	21	1	8C-5098	2	JOINT AS-TUBE						
					(EACH INCLUDES)						
		1	3N-2730	2	SEAL						
	22	1	052-0741	2	ELBOW						
Y-SEPARATE ILLUSTRATION											

FUEL SYSTEM

4P-9090 REGULATOR GP-GAS PRESSURE (contd.)

i02764657



GRAPHIC #1

<END>

g01383925

FUEL SYSTEM

7E - 3404 REGULATOR GP - GAS PRESSURE

S/N: ZBA1-UP

SMCS - 1270

i02221423

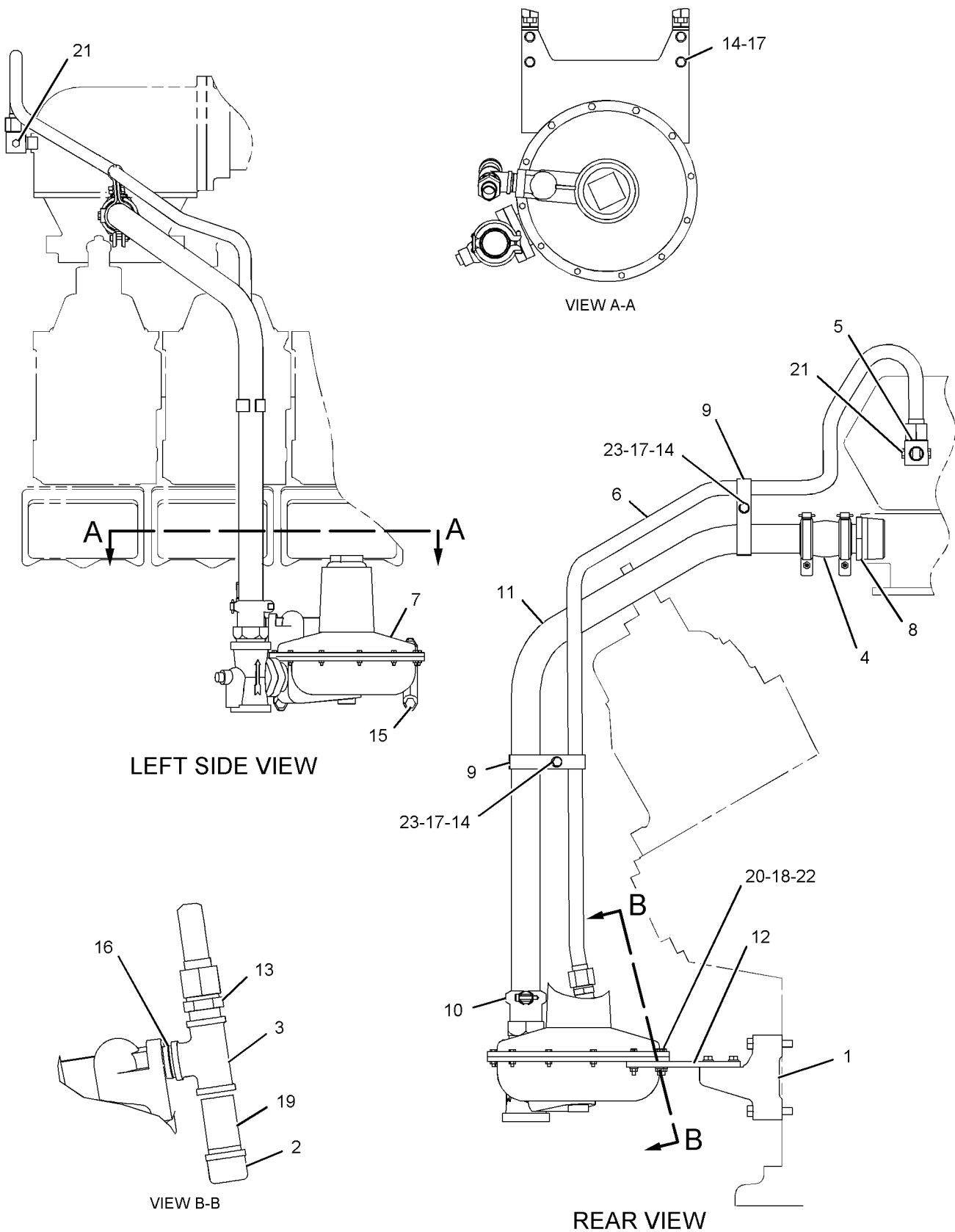
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1N-3872	2	SUPPORT						
	2	1	3B-6486	1	CAP-PIPE						
	3	1	4B-7770	1	TEE						
	4	1	6L-2849	1	JOINT AS-TUBE						
		1	2N-8198	2	SEAL						
	5	1	6V-1760	1	ELBOW-FLARED						
	6	1	7E-3405	1	TUBE AS						
Y	7	1	7E-3407	1	REGULATOR AS-GAS PRESSURE						600
	8	1	7W-1898	1	ADAPTER						
	9	1	8D-8414	4	CLAMP						
	10	1	8T-2657	1	JOINT AS-TUBE						
		1	2N-8198	1	SEAL						
	11	1	9Y-3016	1	TUBE AS						
	12	1	105-9266	1	PLATE						
	13	1	009-4440	1	CONNECTOR						
	14	1	0S-1594	6	BOLT (3/8-16X1-IN)						
	15	1	1A-5822	4	BOLT (1/2-13X2.75-IN)						
	16	1	3B-7749	1	FITTING (NIPPLE)						
	17	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	18	1	5P-0537	4	WASHER-HARD (7.2X14.5X2-MM THK)						
	19	1	6B-3156	1	NIPPLE-PIPE						
	20	1	7B-8167	4	BOLT (1/4-20X1.625-IN)						
	21	1	8T-6765	3	PLUG-PIPE						
	22	1	9S-8750	4	NUT-FULL (1/4-20-THD)						
	23	1	9S-8752	2	NUT-FULL (3/8-16-THD)						

Y-SEPARATE ILLUSTRATION

FUEL SYSTEM

7E-3404 REGULATOR GP-GAS PRESSURE (contd.)

i02221423



GRAPHIC #1

<END>

g01123005

FUEL SYSTEM

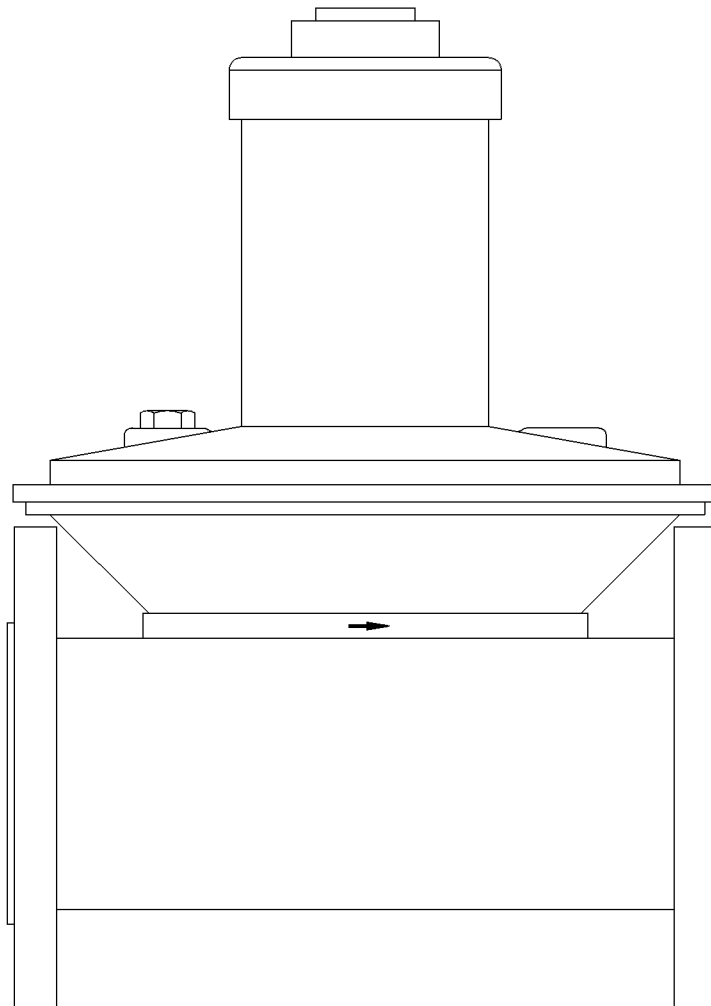
7E-8190 REGULATOR GP-GAS PRESSURE

S/N: ZBA1-UP

SMCS-1270

i02230732

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
					AVAILABLE REPAIR KIT(S):						
			174-5801	1	KIT-REPAIR (65-MM REGULATOR)						
					(KIT INCLUDES DIAPHRAGMS, PLATES, O-RING, REVISION LABEL AND REPAIR INSTRUCTIONS.)						



GRAPHIC #1

<END>

g00644920

FUEL SYSTEM

100-8227 REGULATOR GP - GAS PRESSURE

S/N: ZBA1-UP

PART OF 2W-5710, 4P-9090 REGULATOR GP - GAS PRESSURE
ALSO AN ATTACHMENT

SMCS-1270

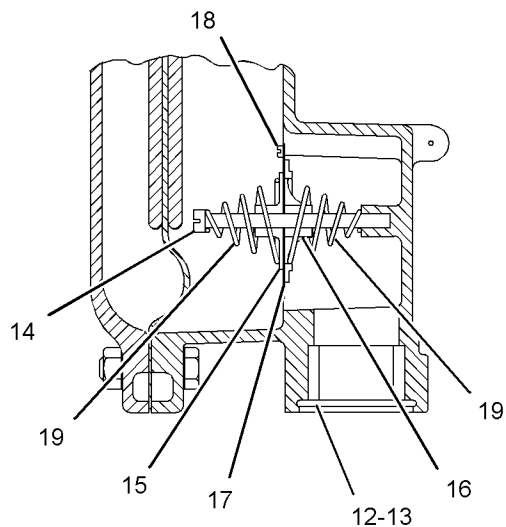
i02407367

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4P-3684	2	WASHER						
	2	1	4P-3686	1	DIAPHRAGM						
	3	1	4P-3687	1	DIAPHRAGM						
	4	1	4P-3688	1	VALVE GP-GAS CONTROL (SHUTOFF)						
	5	1	4P-3689	1	ORIFICE						
	6	1	4P-3937	1	BUSHING						
	7	1	7W-5521	1	CAP (GAS PRESSURE REGULATOR)						
	8	1	133-5184	1	BODY-VALVE						
	9	1	133-5186	2	SEAL-O-RING						
	10	1	133-5187	1	SEAL-O-RING						
	11	1	133-5188	1	SEAL-O-RING						
	12	1	133-5190	1	SCREEN						
	13	1	133-5191	1	RING-SNAP						
	14	1	133-5231	1	STEM-FLAPPER						
	15	1	133-5232	1	PLATE-FLAPPER						
	16	1	133-5233	1	PLATE-FLAPPER						
	17	1	133-5234	1	ORIFICE						
	18	1	133-5235	3	SCREW						
	19	1	133-5236	2	SPRING						
	20	1	133-5237	1	CASE-SPRING						
	21	1	133-5238	2	PLATE-DIAPHRAGM						
	22	1	133-5239	1	SCREW-ADJUSTMENT						
	23	1	133-5240	1	STEM-VALVE						
	24	1	133-5241	1	SPRING						
	25	1	133-5242	12	NUT						
	26	1	133-5243	12	SCREW						
	27	1	133-5244	1	NUT						
	28	1	133-5245	1	PLATE-DIAPHRAGM						
	29	1	133-5246	1	NUT						
	30	1	133-5247	1	WASHER-HARD						
	31	1	133-5248	1	PIN-ROLL						
	32	1	133-5249	1	RETAINER						
	33	1	133-5251	1	GASKET						
	34	1	133-5252	1	WASHER-SPRING						
	35	1	133-5253	1	BEARING						
	36	1	133-5255	1	SCREW						
	37	1	133-5256	1	SEAT-VALVE						
	38	1	133-5257	1	PLATE-DIAPHRAGM						
	39	1	133-5258	2	WASHER						
	40	1	133-5259	1	DISC						
	41	1	133-5260	1	SLEEVE-STEM						
	42	1	133-5261	4	STUD						
	43	1	133-5262	4	NUT						
	44	1	133-5265	1	CAGE						
	45	1	133-5266	1	CASE-DIAPHRAM						

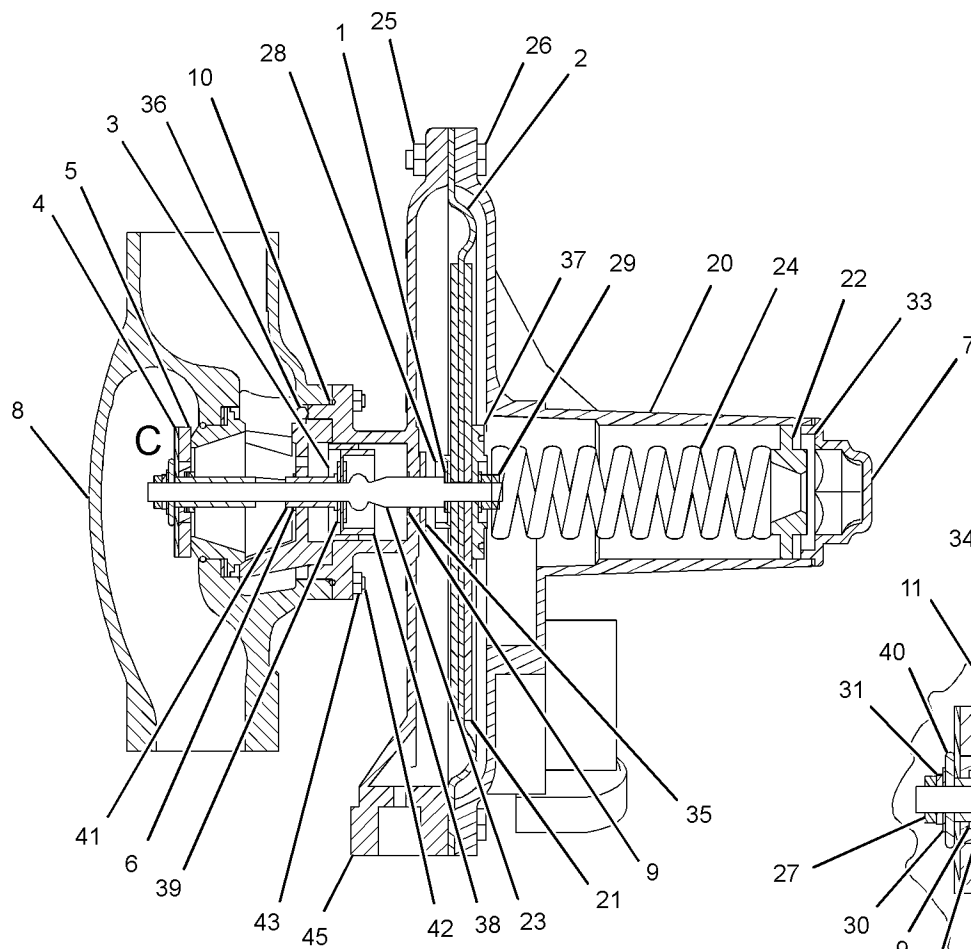
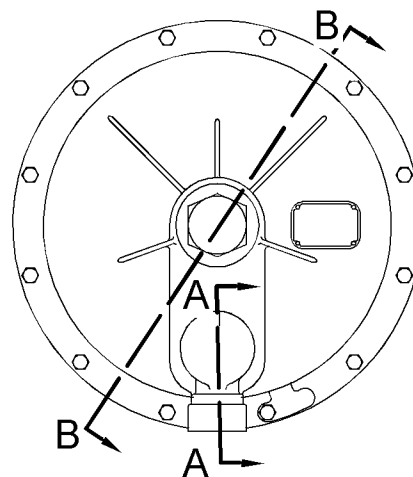
FUEL SYSTEM

100-8227 REGULATOR GP - GAS PRESSURE (contd.)

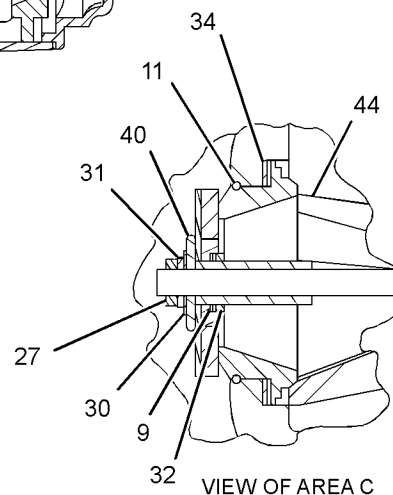
i02407367



SECTION A-A



SECTION B-B



VIEW OF AREA C

GRAPHIC #1

<END>

g01240961

FUEL SYSTEM

150-1791 REGULATOR GP - GAS PRESSURE

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1270

i01134286

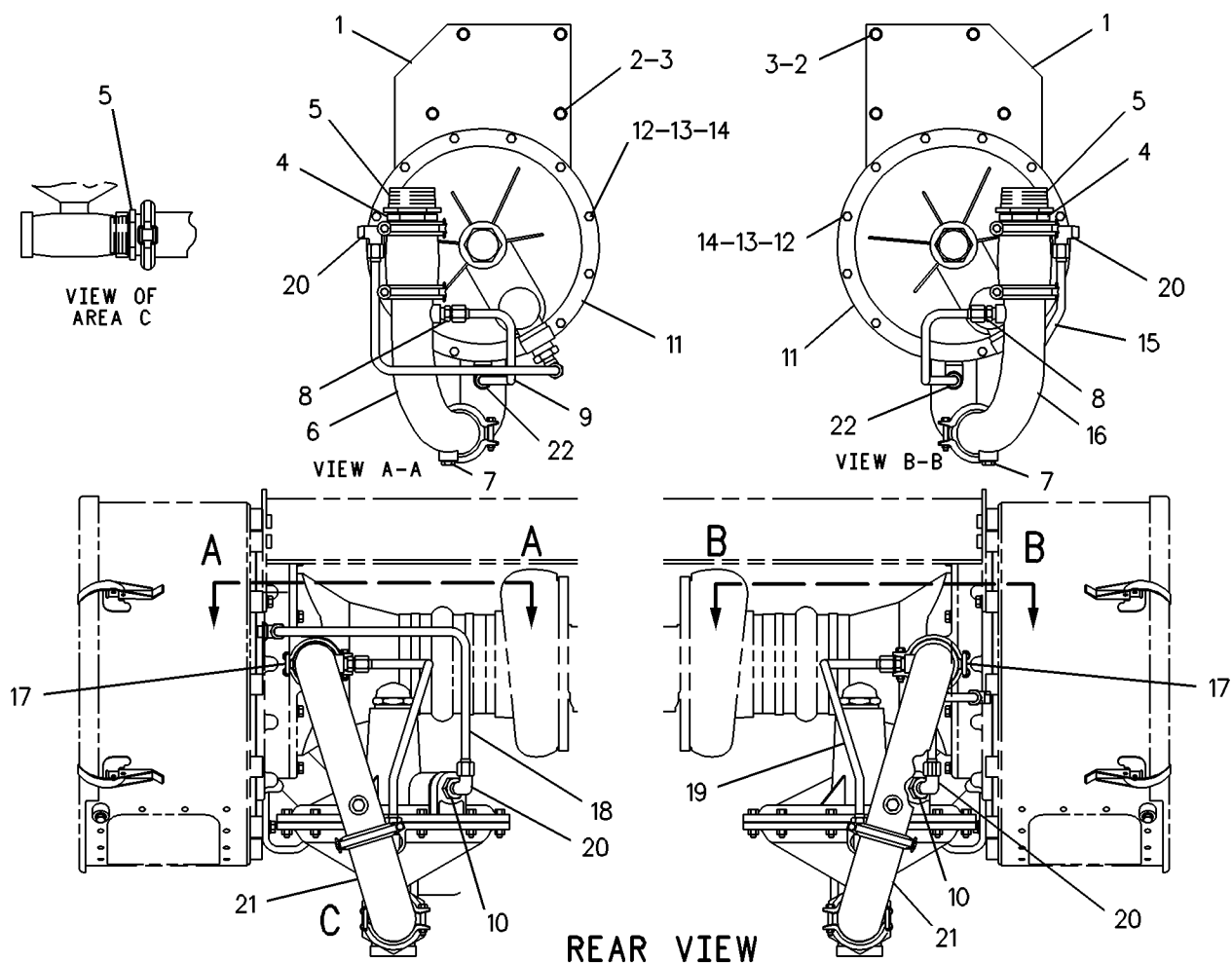
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4P-9092	2	PLATE						
	2	1	0S-1588	8	BOLT (3/8-16X1.25-IN)						
	3	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	4	1	3N-9409	2	BUSHING-TERMINAL						
	5	1	2W-5709	4	ADAPTER						
	6	1	4P-9327	1	TUBE AS						
	7	1	8T-6767	2	PLUG-PIPE						
	8	1	8M-0755	2	CONNECTOR						
	9	1	4P-9098	1	TUBE AS						
	10	1	6B-1628	2	BUSHING-REDUCING						
Y	11	1	150-1792	2	REGULATOR GP-GAS PRESSURE						613
	12	1	1B-9575	8	BOLT (5/16-18X1.56-IN)						
	13	1	5S-0003	8	NUT (5/16-18-THD)						
	14	1	9M-1974	8	WASHER-HARD (8.8X16X2-MM THK)						
	15	1	4P-9099	1	TUBE AS						
	16	1	4P-9101	1	TUBE AS						
	17	1	9S-9635	2	JOINT AS-TUBE						
	18	1	4P-9102	1	TUBE AS						
	19	1	4P-9100	1	TUBE AS						
	20	1	7L-7262	4	ELBOW-FLARED						
	21	1	8C-5098	2	JOINT AS-TUBE						
					(EACH INCLUDES)						
		1	3N-2730	2	SEAL						
	22	1	052-0741	2	ELBOW						

Y-SEPARATE ILLUSTRATION

FUEL SYSTEM

150-1791 REGULATOR GP - GAS PRESSURE (contd.)

i01134286



GRAPHIC #1

<END>

g00228964

FUEL SYSTEM

150-1792 REGULATOR GP-GAS PRESSURE

S/N: ZBA1-UP

PART OF 150-1791 REGULATOR GP-GAS PRESSURE
AN ATTACHMENT

SMCS-1270

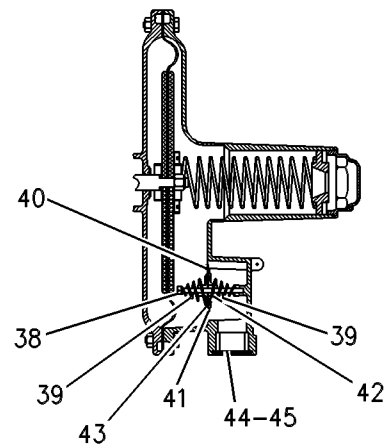
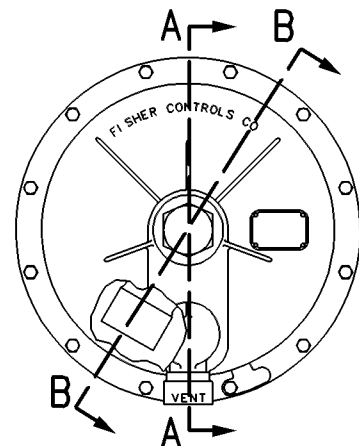
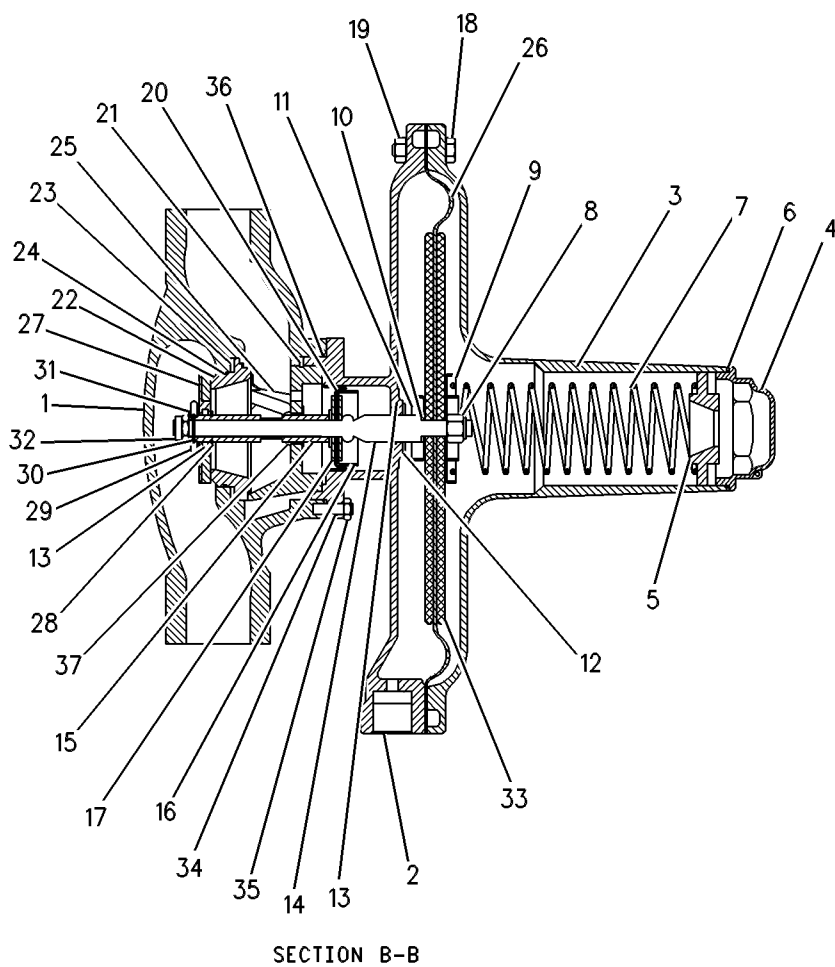
i02231171

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	133-5184	1	BODY-VALVE (GAS PRESSURE REGULATOR)						
	2	1	133-5266	1	CASE-DIAPHRAM						
	3	1	133-5237	1	CASE-SPRING						
	4	1	7W-5521	1	CAP (GAS PRESSURE REGULATOR)						
	5	1	133-5239	1	SCREW-ADJUSTMENT						
	6	1	133-5251	1	GASKET						
	7	1	133-5183	1	SPRING						
	8	1	133-5246	1	NUT						
	9	1	133-5256	1	SEAT-VALVE						
	10	1	4P-3684	2	WASHER						
	11	1	133-5245	1	PLATE-DIAPHRAGM						
	12	1	133-5253	1	BEARING						
	13	1	150-1793	2	SEAL-O-RING						
	14	1	133-5240	1	STEM-VALVE						
	15	1	133-5260	1	SLEEVE-STEM						
	16	1	133-5257	1	PLATE-DIAPHRAGM						
	17	1	133-5258	2	WASHER						
	18	1	133-5243	12	SCREW						
	19	1	133-5242	12	NUT						
	20	1	4P-3687	1	DIAPHRAGM						
	21	1	133-5255	1	SCREW						
	22	1	4P-3689	1	ORIFICE						
	23	1	133-5252	1	WASHER-SPRING						
	24	1	133-5188	1	SEAL-O-RING						
	25	1	133-5265	1	CAGE						
	26	1	4P-3686	1	DIAPHRAGM						
	27	1	4P-3688	1	VALVE GP-GAS CONTROL						
	28	1	133-5249	1	RETAINER						
	29	1	133-5259	1	DISC						
	30	1	133-5248	1	PIN-ROLL						
	31	1	133-5247	1	WASHER-HARD						
	32	1	133-5244	1	NUT						
	33	1	133-5238	2	PLATE-DIAPHRAGM						
	34	1	133-5261	4	STUD						
	35	1	133-5262	4	NUT						
	36	1	133-5187	1	SEAL-O-RING						
	37	1	4P-3937	1	BUSHING						
	38	1	133-5231	1	STEM-FLAPPER						
	39	1	133-5236	2	SPRING						
	40	1	133-5235	3	SCREW						
	41	1	133-5234	1	ORIFICE						
	42	1	133-5233	1	PLATE-FLAPPER						
	43	1	133-5232	1	PLATE-FLAPPER						
	44	1	133-5190	1	SCREEN						
	45	1	133-5191	1	RING-SNAP						

FUEL SYSTEM

150 - 1792 REGULATOR GP - GAS PRESSURE (contd.)

i02231171



GRAPHIC #1

<END>

g00272887

FUEL SYSTEM

160-7740 REGULATOR GP-GAS PRESSURE

S/N: ZBA1-UP

SMCS-1270

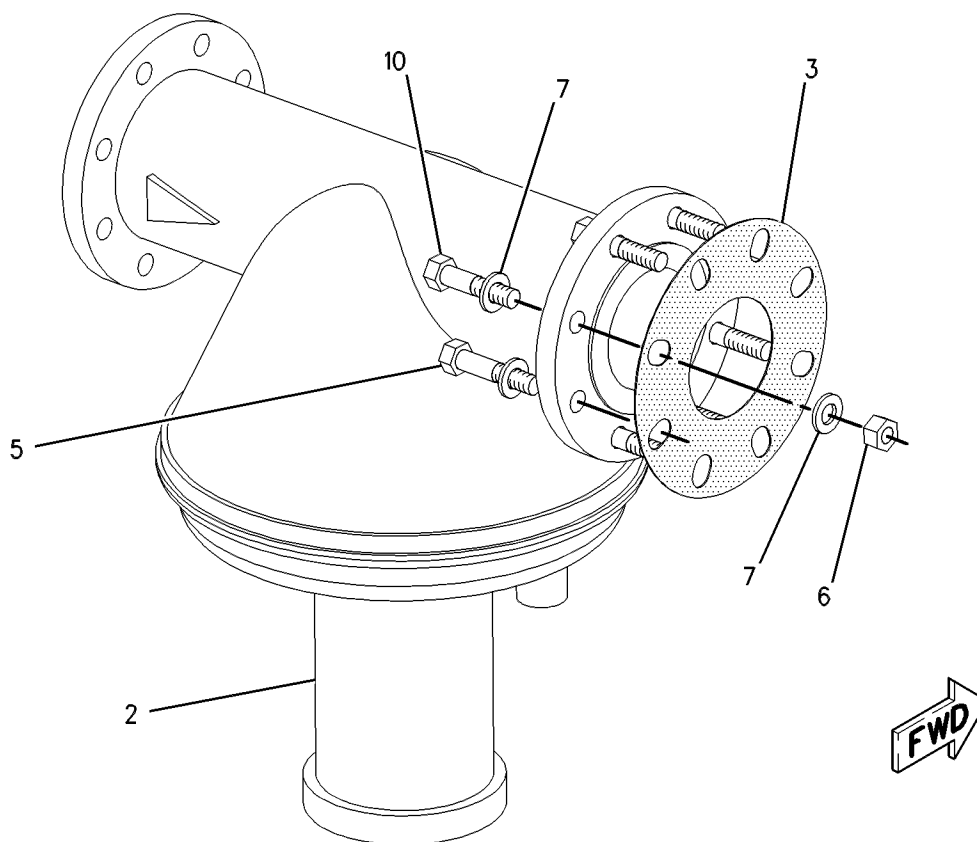
i02318458

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
J	2	1	110-7872	1	REGULATOR GP-GAS PRESSURE						
	3	1	155-6707	1	GASKET						
	5	1	1B-4367	4	BOLT (5/8-11X3-IN)						
	6	1	4K-0367	8	NUT-FULL (5/8-11-THD)						
	7	1	5P-8247	16	WASHER-HARD (17X32X3.5-MM THK)						
	10	1	9X-8883	4	BOLT (5/8-11X2.75-IN)						

AVAILABLE REPAIR KIT(S) :

J	174-5802	1	KIT-REPAIR
(INCLUDES DIAPHRAGM, SEAL, PLATE AS, SPRING, SCREW-ADJUSTING, COVER, AND SPINDLE)			

J-KIT MARKED J AVAILABLE FOR PART MARKED J



GRAPHIC #1

<END>

g00639781

FUEL SYSTEM

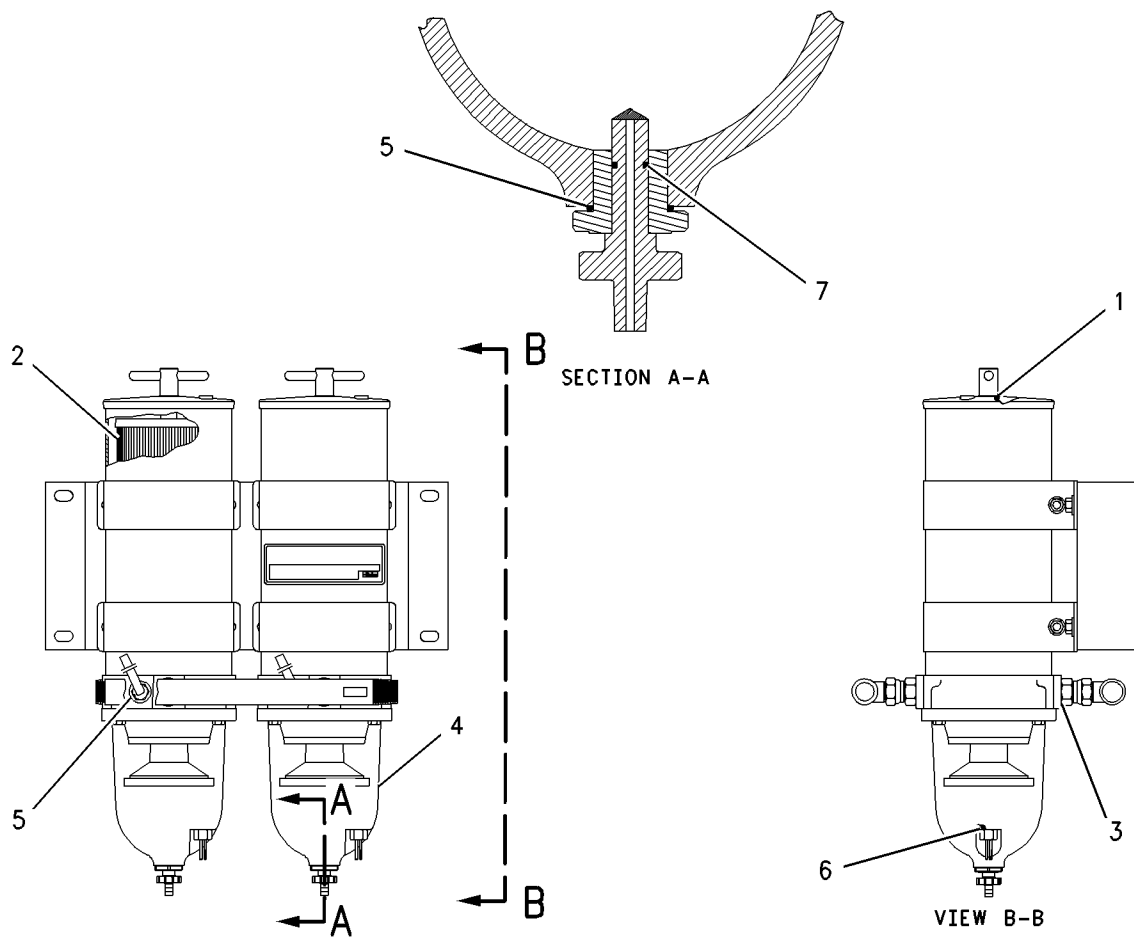
233-7973 SEPARATOR GP-WATER-PRIMARY FUEL FILTER

S/N: ZBA1-UP
AN ATTACHMENT

SMCS-1263

i02623792

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3J-1907	2	SEAL-O-RING						
	2	1	134-6307	2	FILTER ELEMENT AS-FUEL (WATER SEPARATOR) (WATER SEPARATOR)						
	3	1	4P-7383	6	GASKET						
	4	1	4P-7381	2	BOWL AS						
	5	1	2M-9780	4	SEAL-O-RING						
	6	1	1J-9671	2	SEAL-O-RING						
	7	1	4J-5477	2	SEAL-O-RING						



GRAPHIC #1

<END>

g00894701

FUEL SYSTEM

7E-1585 THROTTLE AS

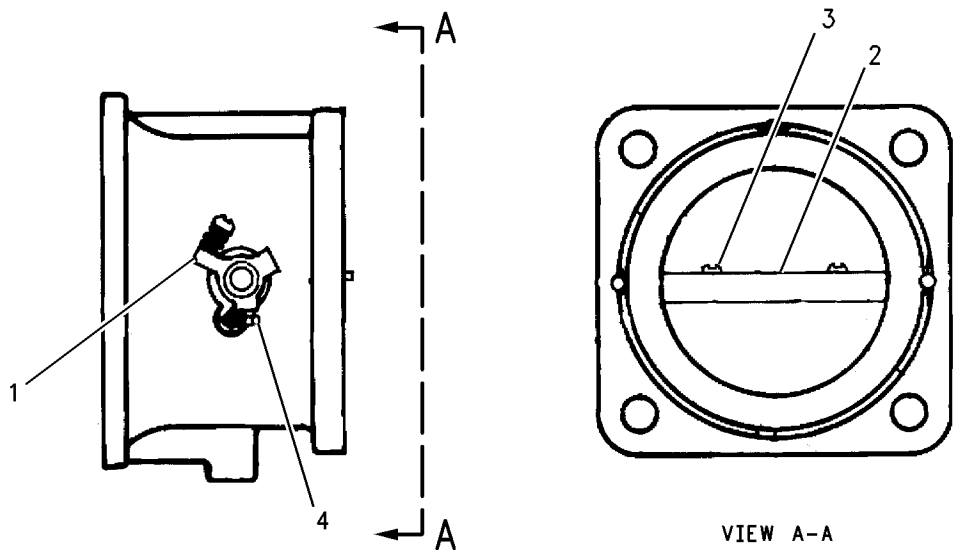
S/N: ZBA1-UP

PART OF 150-1232 LINES GP-GAS

SMCS-1264, 1269

i02776921

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-1565	2	LEVER AS-STOP						
	2	1	7W-4281	1	DISC						
	3	1	8C-8515	2	SCREW (10-32X9.52-MM)						
	4	1	6L-5296	2	SCREW-PIN (10-32X0.75-IN)						
					AVAILABLE REPAIR KIT(S):						
					7E-1552						
					KIT-SHAFT & BEARING (THROTTLE)						
					(INCLUDES SHAFT, BEARINGS & SEALS)						



GRAPHIC #1

<END>

g00930198

FUEL SYSTEM

240-8926 THROTTLE AS

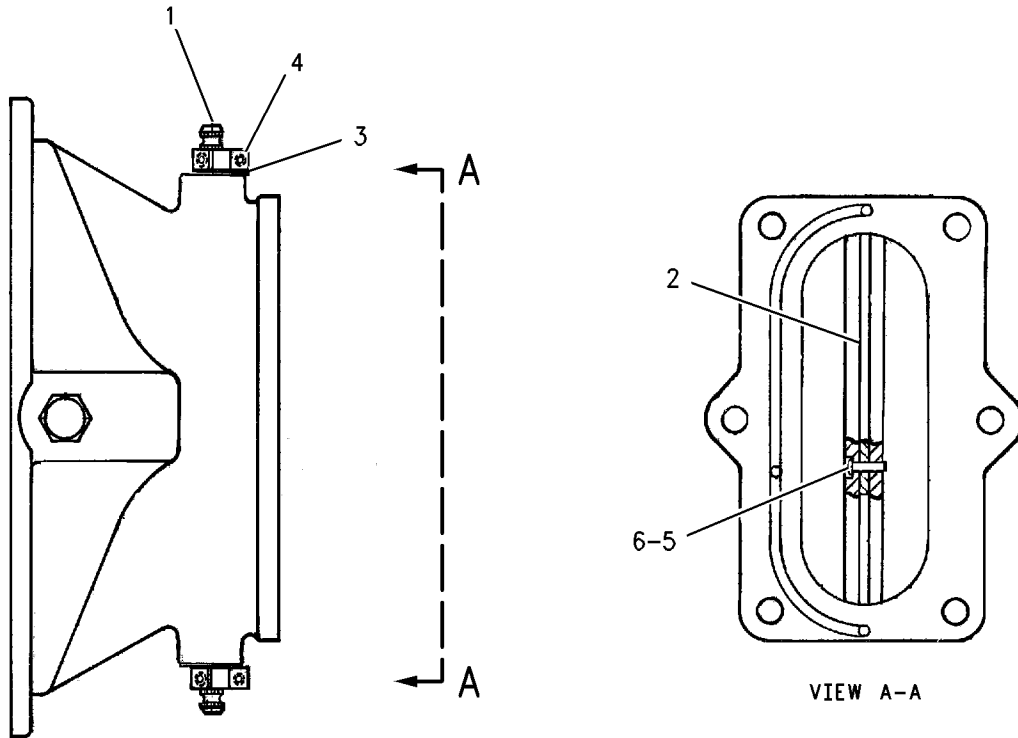
S/N: ZBA1-UP

PART OF 241-6966 CARBURETOR AS

SMCS-1264, 1269

i02781702

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-1565	2	LEVER AS-STOP						
	2	1	7E-1561	1	FLY						
	3	1	7E-1576	2	WASHER (12.78X31.75X0.76-MM THK)						
	4	1	6L-5296	2	SCREW-PIN (10-32X0.75-IN)						
	5	1	030-1193	4	SCREW-MACHINE (10-32X19.05-MM)						
	6	1	3B-4502	4	LOCKWASHER						
					AVAILABLE REPAIR KIT(S):						
					236-7516 KIT-GOVERNOR SHAFT (THROTTLE)						
					(INCLUDES SHAFT, SCREW WITH LOCKWASHER AND CAP-SHAFT END)						
					241-6479 KIT-REPAIR (THROTTLE)						
					(INCLUDES BEARING-INNER, BEARING-OUTER AND SEAL)						



GRAPHIC #1

<END>

g00894327

FUEL SYSTEM

241-6968 THROTTLE AS

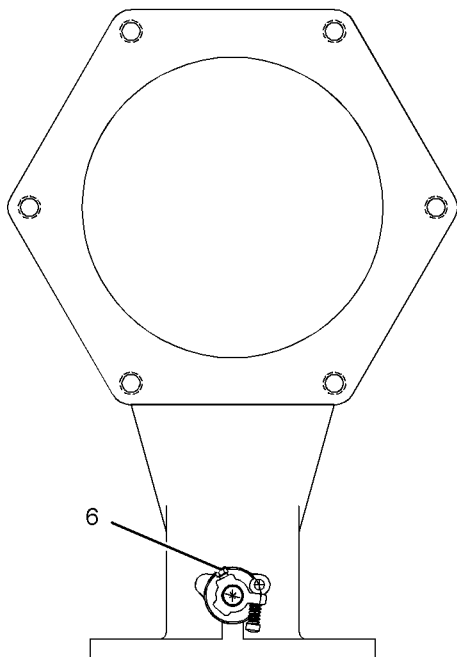
S/N: ZBA1-UP

PART OF 121-7551, 7E-9202 THROTTLE GP
ALSO AN ATTACHMENT

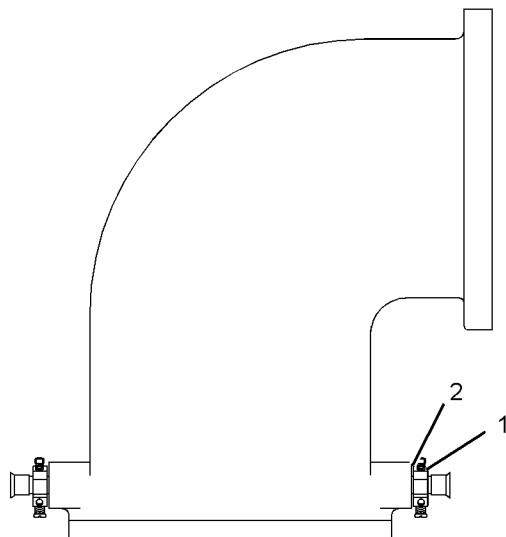
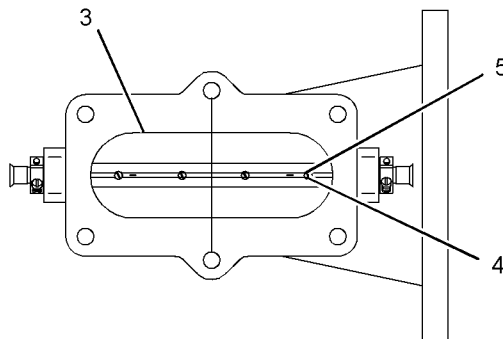
SMCS-1264, 1269

i02781703

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-1565	2	LEVER AS-STOP						
	2	1	7E-1576	2	WASHER (12.78X31.75X0.76-MM THK)						
	3	1	7E-1561	1	FLY						
	4	1	030-1193	4	SCREW-MACHINE (10-32X19.05-MM)						
	5	1	3B-4502	4	LOCKWASHER						
	6	1	6L-5296	2	SCREW-PIN (10-32X0.75-IN)						
AVAILABLE REPAIR KIT(S):											
			236-7516	1	KIT-GOVERNOR SHAFT (THROTTLE)						
					(INCLUDES SCREWS AND LOCKWASHERS)						
			241-6479	1	KIT-REPAIR (THROTTLE)						
					(INCLUDES BEARINGS AND SEALS)						



GRAPHIC #1



<END>

g01023769

FUEL SYSTEM

7E-9202 THROTTLE GP

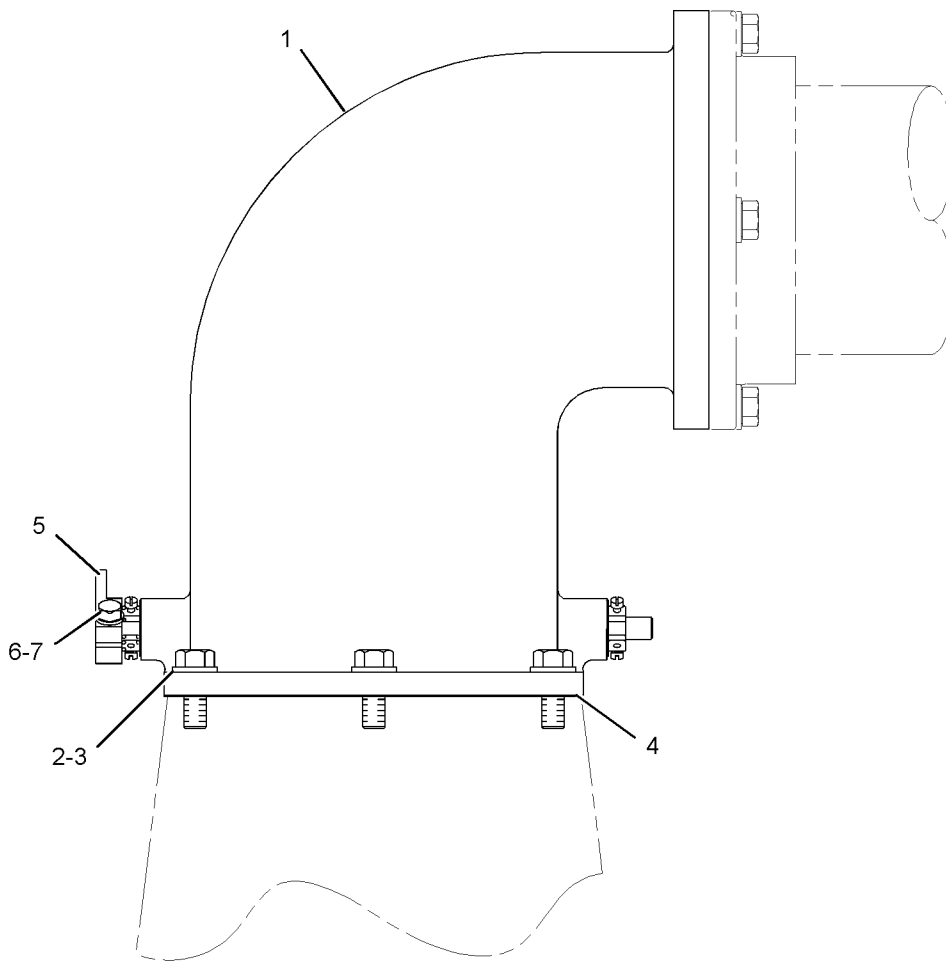
S/N: ZBA1-UP
ALSO AN ATTACHMENT

SMCS-1265

i02220719

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
CY	1	1	241-6968	1	THROTTLE AS						619
	2	1	7B-3235	6	BOLT (1/2-13X1.375-IN)						
	3	1	5P-8245	6	WASHER-HARD (13.5X25.5X3-MM THK)						
	4	1	4W-9765	1	GASKET						
	5	1	9Y-2635	1	LEVER-CARBURETOR						
	6	1	4B-3388	1	BOLT (5/16-18X1.125-IN)						
	7	1	9M-1974	1	WASHER-HARD (8.8X16X2-MM THK)						

C- CHANGE FROM PREVIOUS TYPE
Y- SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01023768

FUEL SYSTEM

121-7551 THROTTLE GP

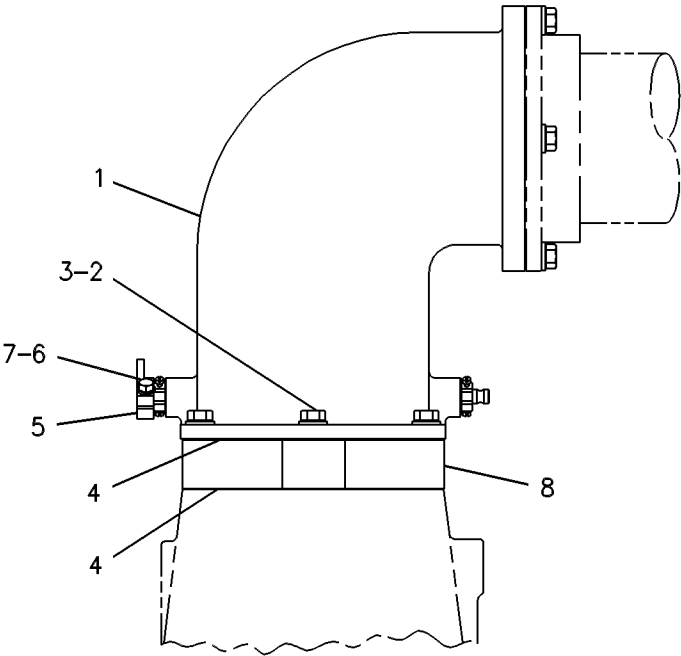
S/N: ZBA1-UP

SMCS-1265

i01964737

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	241-6968	1	THROTTLE AS	619
	2	1	9X-8874	6	BOLT (1/2-13X3-IN)	
	3	1	5P-8245	6	WASHER-HARD (13.5X25.5X3-MM THK)	
	4	1	4W-9765	2	GASKET	
	5	1	9Y-2635	1	LEVER-CARBURETOR	
	6	1	4B-3388	1	BOLT (5/16-18X1.125-IN)	
	7	1	9M-1974	1	WASHER-HARD (8.8X16X2-MM THK)	
	8	1	121-7550	1	ADAPTER	

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00253113

FUEL SYSTEM

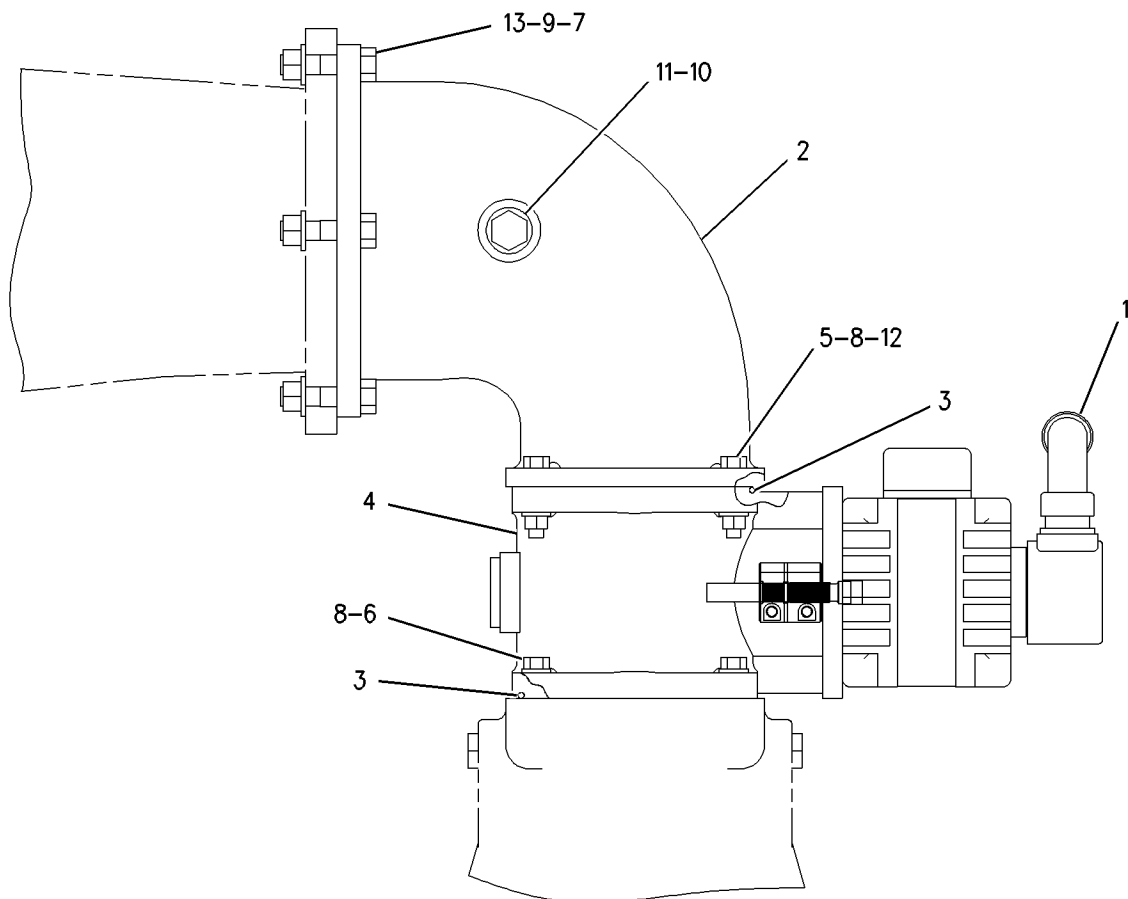
201-0860 THROTTLE GP

S/N: ZBA1-UP

SMCS-1265

i01857962

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3E-1802	1	PLUG AS-CONNECTOR						
	2	1	151-6454	1	ELBOW						
	3	1	165-8368	2	SEAL-O-RING						
	4	1	201-0859	1	THROTTLE AS						
	5	1	0S-1571	4	BOLT (3/8-16X1.75-IN)						
	6	1	0S-1591	4	BOLT (3/8-16X1.5-IN)						
	7	1	1F-7958	6	NUT-FULL (1/2-13-THD)						
	8	1	5M-2894	8	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	9	1	5P-8245	6	WASHER-HARD (13.5X25.5X3-MM THK)						
	10	1	8L-2786	2	SEAL-O-RING						
	11	1	9S-4185	2	PLUG-O RING						
	12	1	9S-8752	4	NUT-FULL (3/8-16-THD)						
	13	1	1A-1460	6	BOLT (1/2-13X2-IN)						



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g00947081

FUEL SYSTEM

7E - 1598 VALVE GP - FUEL

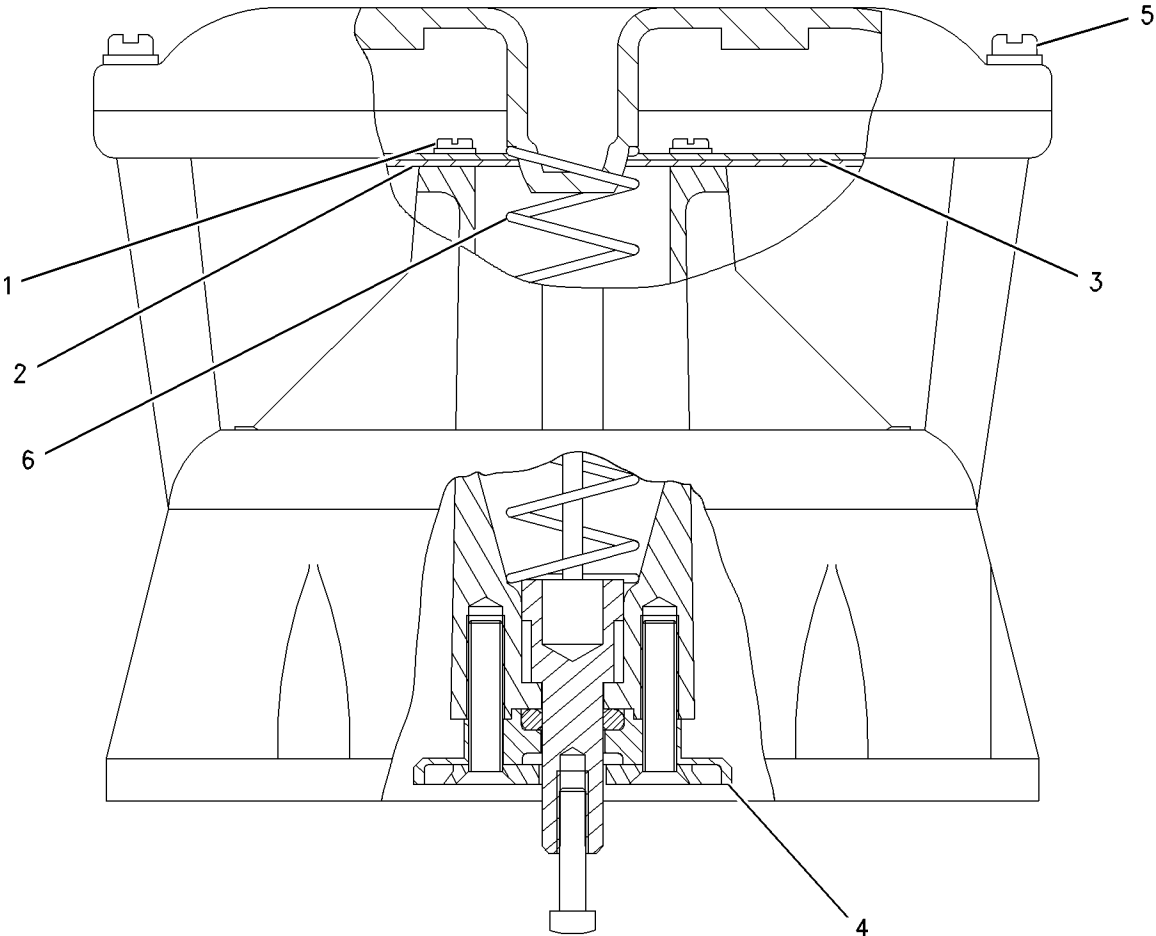
S/N: ZBA1-UP

PART OF 100-7478, 241-6966 CARBURETOR AS
ALSO AN ATTACHMENT

SMCS-1254, 1714, 5086

i01837315

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6L-7159	4	SCREW-MACHINE (8-32X0.313-IN)						
	2	1	7W-4286	1	DIAPHRAGM						
	3	1	125-1329	1	PLATE						
	4	1	125-1330	1	PISTON						
	5	1	1H-2204	6	SCREW AS-MACHINE (10-24X.625-IN)						
	6	1	7W-4287	1	SPRING						



GRAPHIC #1

<END>

g00938568

FUEL SYSTEM

133-7592 VALVE GP-FUEL

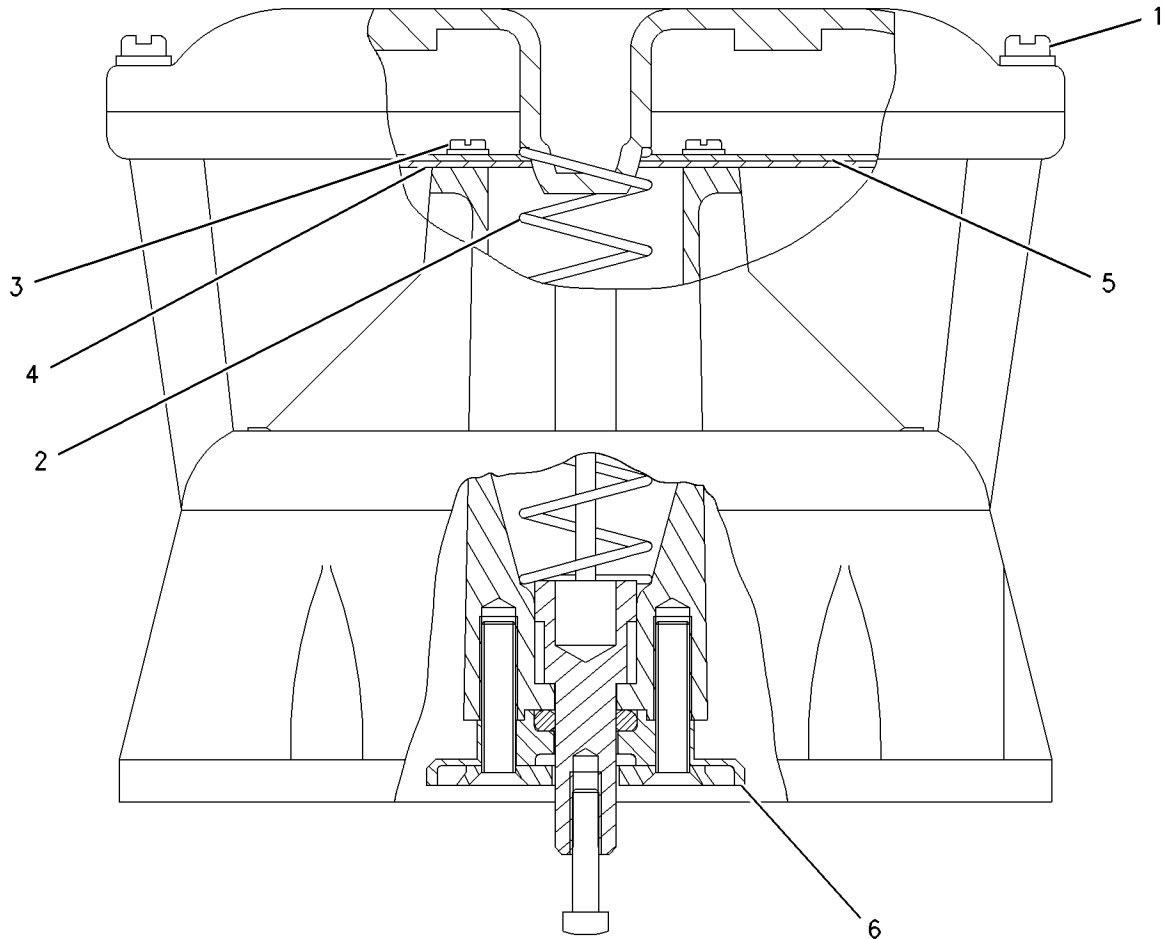
S/N: ZBA1-UP

PART OF 100-7478 CARBURETOR AS
ALSO AN ATTACHMENT

SMCS-1254, 1714, 5086

i02820027

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
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	1	1	1H-2204	6	SCREW AS-MACHINE (10-24X0.625-IN)						
	2	1	4P-1418	1	SPRING (CARBURETOR UPDRAFT)						
	3	1	6L-7159	4	SCREW-MACHINE (8-32X0.313-IN)						
	4	1	7W-4286	1	DIAPHRAGM						
	5	1	125-1329	1	PLATE						
	6	1	125-1330	1	PISTON						
		1	156-7363	1	WASHER-PRECISION (9.63X38.1X0.813-MM THK)						



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