



Parts Manual

C7.1 Industrial Engine

G9R1-Up (Engine)

Product and Dealer Information

Note: For product identification plate locations, see the section “Product Identification Information” in the Operation and Maintenance Manual.

Delivery Date: _____

Product Information

Model: _____

Product Identification Number: _____

Engine Serial Number: _____

Transmission Serial Number: _____

Generator Serial Number: _____

Attachment Serial Numbers: _____

Attachment Information: _____

Customer Equipment Number: _____

Dealer Equipment Number: _____

Dealer Information

Name: _____ Branch: _____

Address: _____

	<u>Dealer Contact</u>	<u>Phone Number</u>	<u>Hours</u>
Sales:	_____	_____	_____
Parts:	_____	_____	_____
Service:	_____	_____	_____

MEMORANDA

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GENERAL INFORMATION

1. ENGINE IDENTIFICATION

Cat 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.

Cat 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.

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 Cat replacement parts are available from Cat dealers throughout the world. Their parts inventories are up to date and include all parts normally required to protect your investment in Cat Engines. 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. An Engine Arrangement is an example of an information element. 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.

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 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.

GENERAL INFORMATION

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. 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.

15. <END>

This symbol indicates the end of an information element.

NOTE:

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

REPAIR ALTERNATIVES

REMANUFACTURED COMPONENTS

As an option when making repairs consider Cat Remanufactured Components. Components that are available through the Cat 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

Cat 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 Cat 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				
FILTER	356-9627	1	AIR CLEANER GP	181
FILTER ELEMENT-AIR (PRIMARY)	289-2348	1	AIR CLEANER GP	182
BASIC ENGINE				
BELT (DRIVE FAN)	298-5873	1	DRIVE GP-FAN	69
BELT-SERPENTINE	283-1171	1	DRIVE GP-FAN	67
	287-6842	1	DRIVE GP-FAN	72
	293-5248	1	DRIVE GP-FAN	70
	350-8742	1	DRIVE GP-FAN	63
	365-2985	1	DRIVE GP-FAN	65
BELT-SERPENTINE (FAN PULLEY)	298-5872	1	DRIVE GP-FAN	71
CAP AS (FILLER)	369-3869	1	COVER GP-VALVE MECHANISM	49
CAP AS-FILLER (ENGINE OIL)	359-1310	1	COVER GP-VALVE MECHANISM	47
CAP-BREATHER (VALVE MECHANISM)	380-9615	1	COVER GP-VALVE MECHANISM	47
		1	COVER GP-VALVE MECHANISM	48
		1	COVER GP-VALVE MECHANISM	49
GASKET	291-6524	1	HOUSING GP-FRONT	92
GASKET-COVER	226-8766	1	HOUSING GP-FRONT	94
		1	HOUSING GP-FRONT	101
	277-3012	1	HOUSING GP-FRONT	92
		1	HOUSING GP-FRONT	94
GASKET-OIL PAN	351-4749	1	PAN GP-OIL	109
SEAL (VALVE COVER)	124-0506	1	COVER GP-VALVE MECHANISM	47
COOLING SYSTEM				
CONNECTION AS (INCLUDES TEMPERATURE REGULATOR)	367-1817	1	CONNECTION GP-WATER	156
GASKET	225-7944	2	COOLER GP-ENGINE OIL	163
		2	COOLER GP-ENGINE OIL	164
		2	COOLER GP-ENGINE OIL	167
		2	COOLER GP-ENGINE OIL	169
	277-2500	1	COOLER AS-OIL	159
		1	COOLER GP-ENGINE OIL	162
	277-2538	2	COOLER GP-ENGINE OIL	167
		1	COOLER GP-ENGINE OIL	169
	281-7040	1	COOLER GP-ENGINE OIL	162
		1	COOLER GP-ENGINE OIL	165
GASKET (ENGINE OIL FILTER BASE)	225-7944	2	COOLER GP-ENGINE OIL	165
GASKET (HOUSING)	277-2500	1	COOLER GP-ENGINE OIL	165
GASKET-FILTER	277-2526	1	COOLER GP-ENGINE OIL	168
GASKET-WATER REGULATOR	281-8744	1	CONNECTION GP-WATER	156
		1	CONNECTION GP-WATER	158
GASKET-WATER REGULATOR (TEMPERATURE)	281-8744	1	CONNECTION GP-WATER	157
HOSE-WATER	293-8080	1	RADIATOR GP	177
		1	RADIATOR GP	178

MAINTENANCE PARTS

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	303-6191	1	RADIATOR GP	177
		1	RADIATOR GP	178
		1	RADIATOR GP	179
		1	RADIATOR GP	180
REGULATOR AS-WATER TEMPERATURE (INCLUDES CONNECTOR)	417-7782	1	CONNECTION GP-WATER	157
SCREEN AS	442-5177	1	RADIATOR GP	179
ELECTRICAL AND STARTING SYSTEM				
GLOW PLUG	299-6953	6	STARTING AID GP	240
GLOW PLUG (12-VOLT)	361-9874	6	STARTING AID GP	241
GLOW PLUG (24-VOLT)	361-9875	6	STARTING AID GP	242
FUEL SYSTEM				
FILTER AS-WATER SEP & FUEL	416-7740	1	FILTER GP-FUEL	203
	439-5037	1	FILTER GP-WATER SEP & FUEL	213
FILTER ELEMENT-FUEL	360-8960	1	FILTER GP-FUEL	198
LUBRICATION SYSTEM				
CAP AS-FILLER (ENGINE OIL)	359-1309	1	FILLER GP-ENGINE OIL	135
CAP AS-OIL FILLER	369-3867	1	FILLER GP-ENGINE OIL	138
CAP AS-OIL FILLER (ENGINE)	369-3867	1	FILLER GP-ENGINE OIL	137
CAP-OIL FILLER (ENGINE)	130-9888	1	FILLER GP-ENGINE OIL	136
		1	FILLER GP-ENGINE OIL	141
		1	FILLER GP-ENGINE OIL	142
FILTER-ENGINE OIL	462-1171	1	FILTER GP-ENGINE OIL	144
FILTER-FUMES DISPOSAL	273-5711	1	FILLER GP-ENGINE OIL	139
GASKET	278-0017	1	FILLER GP-ENGINE OIL	137
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ENGINE ARRANGEMENT

455-4836 CONFIGURATION AR

SMCS-1000

i05962713

NOTE	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
Y	451-8385	1	CYLINDER BLOCK GP-SHORT	56
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Y - SEPARATE ILLUSTRATION

<END>

455-9421 CONFIGURATION AR

SMCS-1000

i05962716

NOTE	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
Y	451-8385	1	CYLINDER BLOCK GP-SHORT	56
Y	452-6582	1	CYLINDER HEAD GP	59
Y	449-5818	1	ENGINE AR-PRIMARY	13

Y - SEPARATE ILLUSTRATION

<END>

462-0854 ENGINE AR-COMPLETE

SMCS-1000

i05845509

NOTE	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
Y	451-8385	1	CYLINDER BLOCK GP-SHORT	56
Y	452-6582	1	CYLINDER HEAD GP	59
Y	461-4657	1	ENGINE AR-PRIMARY	27

Y - SEPARATE ILLUSTRATION

<END>

462-3105 ENGINE AR-COMPLETE

SMCS-1000

i05849433

NOTE	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
Y	451-8385	1	CYLINDER BLOCK GP-SHORT	56
Y	452-6582	1	CYLINDER HEAD GP	59
Y	461-4661	1	ENGINE AR-PRIMARY	28

Y - SEPARATE ILLUSTRATION

<END>

462-6732 ENGINE AR-COMPLETE

SMCS-1000

i05849434

NOTE	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
Y	451-8385	1	CYLINDER BLOCK GP-SHORT	56
Y	452-6582	1	CYLINDER HEAD GP	59
Y	461-4645	1	ENGINE AR-PRIMARY	22

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

462-8110 CONFIGURATION AR

SMCS-1000

i06102488

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	451-8385	1	CYLINDER BLOCK GP-SHORT	56
Y	452-6582	1	CYLINDER HEAD GP	59
Y	461-4651	1	ENGINE AR-PRIMARY	24

Y - SEPARATE ILLUSTRATION

<END>

462-8972 ENGINE AR-COMPLETE

SMCS-1000

i05849435

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	451-8385	1	CYLINDER BLOCK GP-SHORT	56
Y	452-6582	1	CYLINDER HEAD GP	59
Y	461-4653	1	ENGINE AR-PRIMARY	26

Y - SEPARATE ILLUSTRATION

<END>

464-9337 ENGINE AR-COMPLETE

SMCS-1000

i05962737

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	451-8385	1	CYLINDER BLOCK GP-SHORT	56
Y	452-6582	1	CYLINDER HEAD GP	59
Y	449-0783	1	ENGINE AR-PRIMARY	11

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

440-8198 ENGINE AR-PRIMARY

168 BRAKE KW (225 BHP) AT 2200 RPM

FIELD REPLACEMENT ORDER 451-1222-PAGE: 55, 452-6584-PAGE: 60

SMCS-1000

i05836390

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	377-0721	1	ALTERNATOR GP-CHARGING	231
			-OR-	
Y	440-6724	1	ALTERNATOR GP-CHARGING	234
Y	391-9611	1	BELT TENSIONER GP	40
			-OR-	
Y	375-4479	1	BELT TENSIONER GP	37
Y	379-6637	1	BRACKET GP-MOUNTING	41
Y	392-0632	1	BREATHER GP	131
Y	396-2617	1	CAMSHAFT GP	43
Y	390-5132	1	CLAMP-BAND	184
Y	373-3606	1	CONNECTION GP-WATER	156
Y	371-2536	1	CONTROL GP-ELECTRONIC	235
Y	378-8280	1	COOLER GP-ENGINE OIL	167
Y	389-3348	1	COVER GP-VALVE MECHANISM	50
Y	371-2477	1	CRANKSHAFT GP	51
Y	390-0854	1	CYLINDER BLOCK GP	54
Y	385-2572	1	CYLINDER HEAD GP	58
Y	378-8166	1	DRAIN GP-OIL	134
Y	375-3937	1	DRIVE GP-FAN	64
Y	379-6626	1	FILLER GP-ENGINE OIL	135
Y	346-0220	1	FILTER GP-ENGINE OIL	144
Y	426-3292	1	FILTER GP-FUEL	204
			-OR-	
Y	453-7163	1	FILTER GP-FUEL	212
Y	441-1215	1	FILTER GP-FUEL	207
Y	426-3290	1	FILTER GP-FUEL	203
Y	345-8961	1	FLYWHEEL GP	78
Y	439-3378	1	GAUGE GP-OIL LEVEL (DIPSTICK) (ENGINE)	146
Y	380-2587	1	HOUSING GP-FLYWHEEL	85
Y	375-4645	1	HOUSING GP-FRONT	92
Y	375-4606	1	HOUSING GP-FRONT	91
Y	416-8908	1	INJECTOR GP-FUEL	216
Y	371-2478	1	JET GP-PISTON COOLING	102
Y	371-2735	1	LIFTING GP-ENGINE	103
Y	426-3310	1	LINES GP-FUEL INJECTION	224
			-OR-	
Y	448-0935	1	FILTER GP-FUEL	209
Y	393-7694	1	MANIFOLD GP-EXHAUST	188
Y	391-5523	1	MANIFOLD GP-INLET	191
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL	238
Y	371-2544	1	PAN GP-OIL	109
Y	369-7304	1	PISTON & ROD GP	115
Y	378-8167	1	PLATE & FILM GP	263
Y	346-2908	1	PLUG GP-ENGINE	118
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE	122
Y	371-2555	1	PULLEY GP-CRANKSHAFT	124
Y	346-0737	1	PUMP GP-ENGINE OIL	152
Y	391-4811	1	PUMP GP-FUEL INJECTION	226
Y	372-2297	1	PUMP GP-WATER	175
Y	394-9639	1	RAIL GP-FUEL	227
Y	371-2480	1	ROCKER ARM GP	128
Y	395-0110	1	SENSOR GP-ENGINE	239
Y	395-0114	1	STARTING AID GP	242
Y	458-3684	1	STARTING MOTOR GP-ELECTRIC	249
Y	416-6968	1	TURBOCHARGER GP	193
Y	371-2745	1	VALVE GP-FLUID SAMPLING	154
Y	424-5516	1	WIRING GP-ENGINE	252
	448-4768	1	ELECTRONICS GP	

ENGINE ARRANGEMENT

440-8198 ENGINE AR-PRIMARY (contd.)

i05836390

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y - SEPARATE ILLUSTRATION									
<END>									

ENGINE ARRANGEMENT

445-2586 ENGINE AR-PRIMARY

186 BRAKE KW (249 BHP) AT 2200 RPM

OPTIONAL FIELD REPLACEMENT ORDER 451-1222-PAGE: 55, 452-6584-PAGE: 60

SMCS-1000

i05971691

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	377-0721	1	ALTERNATOR GP-CHARGING						231
Y	371-2693	1	BELT TENSIONER GP						36
Y	425-0196	1	BREATHING GP						132
Y	396-2617	1	CAMSHAFT GP						43
Y	373-3607	1	CONNECTION GP-WATER						157
Y	371-2536	1	CONTROL GP-ELECTRONIC						235
Y	378-8280	1	COOLER GP-ENGINE OIL						167
Y	389-3346	1	COVER GP-VALVE MECHANISM						48
Y	374-6300	1	CRANKSHAFT GP						52
Y	390-0854	1	CYLINDER BLOCK GP						54
Y	385-2572	1	CYLINDER HEAD GP						58
Y	391-5560	1	DRIVE GP-FAN						67
Y	371-2694	1	EXTENSION GP-FAN						73
Y	390-3737	1	FILLER GP-ENGINE OIL						136
Y	425-0197	1	FILLER GP-ENGINE OIL						139
Y	346-0220	1	FILTER GP-ENGINE OIL						144
Y	426-3292	1	FILTER GP-FUEL						204
			-OR-						
Y	453-7163	1	FILTER GP-FUEL						212
Y	441-1215	1	FILTER GP-FUEL						207
Y	377-0692	1	FLYWHEEL GP						80
Y	439-3432	1	GAUGE GP-OIL LEVEL (DIPSTICK)						149
Y	393-3369	1	HOUSING GP-FLYWHEEL						86
Y	371-2725	1	HOUSING GP-FRONT						90
Y	416-8908	1	INJECTOR GP-FUEL						216
Y	371-2478	1	JET GP-PISTON COOLING						102
Y	416-2470	1	LIFTING GP-ENGINE						105
Y	426-3310	1	LINES GP-FUEL INJECTION						224
Y	416-7808	1	MANIFOLD GP-EXHAUST						189
Y	391-5523	1	MANIFOLD GP-INLET						191
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL						238
Y	375-4499	1	PAN GP-OIL						110
Y	369-7304	1	PISTON & ROD GP						115
Y	378-8167	1	PLATE & FILM GP						263
Y	346-2908	1	PLUG GP-ENGINE						118
Y	440-0026	1	PLUG GP-OIL FILTER MOUNTING						151
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE						122
Y	379-6629	1	PULLEY GP-CRANKSHAFT						125
Y	346-0737	1	PUMP GP-ENGINE OIL						152
			-OR-						
Y	462-6685	1	PUMP GP-ENGINE OIL						153
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	395-0114	1	STARTING AID GP						242
Y	385-8000	1	STARTING MOTOR GP-ELECTRIC						246
Y	371-2719	1	SUPPORT GP-POWER TAKE-OFF						130
Y	431-6516	1	TURBOCHARGER GP						196
Y	424-5516	1	WIRING GP-ENGINE						252
	464-1142	1	ELECTRONICS GP-ENGINE						

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

445-2599 ENGINE AR-PRIMARY

186 BRAKE KW (249 BHP) AT 2200 RPM

SMCS-1000

i05584511

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	374-7094	1	AIR COMPRESSOR GP						34
Y	377-0721	1	ALTERNATOR GP-CHARGING						231
Y	391-9611	1	BELT TENSIONER GP						40
Y	392-0632	1	BREATHER GP						131
Y	396-2617	1	CAMSHAFT GP						43
Y	373-3607	1	CONNECTION GP-WATER						157
Y	371-2536	1	CONTROL GP-ELECTRONIC						235
Y	378-8280	1	COOLER GP-ENGINE OIL						167
Y	389-3346	1	COVER GP-VALVE MECHANISM						48
Y	374-6300	1	CRANKSHAFT GP						52
Y	390-0854	1	CYLINDER BLOCK GP						54
Y	385-2572	1	CYLINDER HEAD GP						58
Y	378-8166	1	DRAIN GP-OIL						134
Y	379-0957	1	DRIVE GP-FAN						65
Y	390-5132	1	CLAMP-BAND						184
Y	415-1646	1	FILLER GP-ENGINE OIL						137
Y	415-5625	1	FILM GP						261
Y	346-0220	1	FILTER GP-ENGINE OIL						144
Y	426-3292	1	FILTER GP-FUEL						204
Y	398-7221	1	FILTER GP-FUEL						199
Y	441-1222	1	FILTER GP-FUEL						208
Y	345-8901	1	FLYWHEEL GP						76
Y	345-8838	1	HOUSING GP-FLYWHEEL						82
Y	371-2716	1	HOUSING GP-FRONT						89
Y	416-8908	1	INJECTOR GP-FUEL						216
Y	371-2478	1	JET GP-PISTON COOLING						102
Y	371-2740	1	LIFTING GP-ENGINE						104
Y	393-7694	1	MANIFOLD GP-EXHAUST						188
Y	378-8582	1	MANIFOLD GP-INLET						190
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL						238
Y	378-0593	1	PAN GP-OIL						112
Y	439-3377	1	PAN GP-OIL						114
Y	369-7304	1	PISTON & ROD GP						115
Y	378-8167	1	PLATE & FILM GP						263
Y	374-9295	1	PLUG GP-CYLINDER BLOCK						117
Y	346-2908	1	PLUG GP-ENGINE						118
Y	327-0675	1	PLUG GP-FLYWHEEL HOUSING						119
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE						122
Y	371-2554	1	PULLEY GP-CRANKSHAFT						123
Y	346-0737	1	PUMP GP-ENGINE OIL						152
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	395-0114	1	STARTING AID GP						242
Y	392-2020	1	STARTING MOTOR GP-ELECTRIC						247
Y	423-8803	1	FILM GP						262
Y	416-6969	1	TURBOCHARGER GP						194
Y	371-2745	1	VALVE GP-FLUID SAMPLING						154
Y	395-0113	1	WIRING GP-ENGINE						250
	440-1796	1	ELECTRONICS GP-ENGINE RATINGS						

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

445-8905 ENGINE AR-PRIMARY

205 BRAKE KW (275 BHP) AT 2200 RPM

FIELD REPLACEMENT ORDER 451-1222-PAGE: 55, 452-6584-PAGE: 60

SMCS-1000

i05989849

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	374-7094	1	AIR COMPRESSOR GP	34
Y	385-8001	1	ALTERNATOR GP-CHARGING	232
Y	379-5585	1	BELT TENSIONER GP	38
			-OR-	
Y	375-4479	1	BELT TENSIONER GP	37
Y	392-0632	1	BREATHER GP	131
Y	396-2617	1	CAMSHAFT GP	43
Y	390-5130	1	CLAMP-BAND	183
Y	346-2911	1	CONNECTION GP-HEATER	155
			-OR-	
Y	448-9710	1	MOUNTING GP-ACCESSORY MODULE	258
Y	373-3607	1	CONNECTION GP-WATER	157
			-OR-	
Y	373-3606	1	CONNECTION GP-WATER	156
Y	371-2536	1	CONTROL GP-ELECTRONIC	235
Y	443-3790	1	COOLER GP-ENGINE OIL	169
Y	389-3348	1	COVER GP-VALVE MECHANISM	50
Y	371-2477	1	CRANKSHAFT GP	51
Y	390-0854	1	CYLINDER BLOCK GP	54
Y	385-2572	1	CYLINDER HEAD GP	58
Y	378-8166	1	DRAIN GP-OIL	134
Y	374-7093	1	DRIVE GP-FAN	63
Y	379-6626	1	FILLER GP-ENGINE OIL	135
			-OR-	
Y	438-5978	1	FILLER GP-ENGINE OIL	140
Y	415-5625	1	FILM GP	261
Y	426-3296	1	FILTER GP-FUEL	205
			-OR-	
Y	453-7163	1	FILTER GP-FUEL	212
Y	441-1215	1	FILTER GP-FUEL	207
Y	398-7221	1	FILTER GP-FUEL	199
Y	437-2723	1	FLYWHEEL GP	81
			-OR-	
Y	377-0692	1	FLYWHEEL GP	80
Y	439-3378	1	GAUGE GP-OIL LEVEL (DIPSTICK)	146
			-OR-	
Y	375-8851	1	GAUGE GP-OIL LEVEL (DIPSTICK)	145
Y	437-2721	1	HOUSING GP-FLYWHEEL	88
			-OR-	
Y	393-3369	1	HOUSING GP-FLYWHEEL	86
Y	375-5838	1	HOUSING GP-FRONT	94
Y	378-0630	1	HOUSING GP-FRONT	96
Y	416-8908	1	INJECTOR GP-FUEL	216
Y	371-2478	1	JET GP-PISTON COOLING	102
Y	416-2470	1	LIFTING GP-ENGINE	105
			-OR-	
Y	371-2735	1	LIFTING GP-ENGINE	103
Y	393-7694	1	MANIFOLD GP-EXHAUST	188
Y	391-5523	1	MANIFOLD GP-INLET	191
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL	238
Y	346-1510	1	MOUNTING GP-ENGINE	106
Y	371-2544	1	PAN GP-OIL	109
Y	369-7304	1	PISTON & ROD GP	115
Y	378-8167	1	PLATE & FILM GP	263
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE	122
Y	371-2555	1	PULLEY GP-CRANKSHAFT	124
Y	462-6685	1	PUMP GP-ENGINE OIL	153
			-OR-	
Y	346-0737	1	PUMP GP-ENGINE OIL	152

ENGINE ARRANGEMENT

445-8905 ENGINE AR-PRIMARY (contd.)

i05989849

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	395-0114	1	STARTING AID GP						242
Y	371-2541	1	STARTING MOTOR GP-ELECTRIC						243
Y	416-6968	1	TURBOCHARGER GP						193
			-OR-						
Y	416-6969	1	TURBOCHARGER GP						194
Y	424-5516	1	WIRING GP-ENGINE						252
	447-7816	1	ELECTRONICS GP-ENGINE						

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

446-1005 ENGINE AR-PRIMARY

205 BRAKE KW (274 BHP) AT 1800 RPM

OPTIONAL FIELD REPLACEMENT ORDER 451-1222-PAGE: 55, 452-6584-PAGE: 60

SMCS-1000

i05934120

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	450-4794	1	ACCESSORY GP-ENGINE						33
Y	392-2023	1	ALTERNATOR GP-CHARGING						233
Y	379-5585	1	BELT TENSIONER GP						38
Y	425-0196	1	BREATHER GP						132
Y	396-2617	1	CAMSHAFT GP						43
Y	390-5130	1	CLAMP-BAND						183
Y	373-3607	1	CONNECTION GP-WATER						157
Y	371-2536	1	CONTROL GP-ELECTRONIC						235
Y	378-8280	1	COOLER GP-ENGINE OIL						167
Y	389-3347	1	COVER GP-VALVE MECHANISM						49
Y	374-6300	1	CRANKSHAFT GP						52
Y	390-0854	1	CYLINDER BLOCK GP						54
Y	385-2572	1	CYLINDER HEAD GP						58
Y	392-6911	1	DRIVE GP-FAN						69
Y	375-8320	1	EXTENSION GP-FAN						74
Y	378-0627	1	FAN GP						172
Y	425-0197	1	FILLER GP-ENGINE OIL						139
Y	438-5978	1	FILLER GP-ENGINE OIL						140
Y	415-5625	1	FILM GP						261
Y	423-8803	1	FILM GP						262
Y	346-0220	1	FILTER GP-ENGINE OIL						144
Y	426-3292	1	FILTER GP-FUEL						204
Y	398-7221	1	FILTER GP-FUEL						199
Y	345-8901	1	FLYWHEEL GP						76
Y	439-3431	1	GAUGE GP-OIL LEVEL (DIPSTICK) (ENGINE)						148
Y	345-8839	1	HOUSING GP-FLYWHEEL						83
Y	375-4645	1	HOUSING GP-FRONT						92
Y	448-2107	1	HOUSING GP-FRONT						100
Y	416-8908	1	INJECTOR GP-FUEL						216
Y	371-2478	1	JET GP-PISTON COOLING						102
Y	371-2735	1	LIFTING GP-ENGINE						103
Y	393-7694	1	MANIFOLD GP-EXHAUST						188
Y	391-5523	1	MANIFOLD GP-INLET						191
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL						238
Y	374-7090	1	MOUNTING GP-REFRIGERANT COMPR						108
Y	378-0593	1	PAN GP-OIL						112
Y	369-7304	1	PISTON & ROD GP						115
Y	378-8167	1	PLATE & FILM GP						263
Y	332-9106	1	PLUG GP-FLYWHEEL HOUSING						120
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE						122
Y	371-2554	1	PULLEY GP-CRANKSHAFT						123
Y	346-0737	1	PUMP GP-ENGINE OIL						152
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	380-9279	1	STARTING AID GP						241
Y	415-4870	1	STARTING MOTOR GP-ELECTRIC						248
Y	416-6969	1	TURBOCHARGER GP						194
Y	371-2745	1	VALVE GP-FLUID SAMPLING						154
Y	424-5516	1	WIRING GP-ENGINE						252
	447-7816	1	ELECTRONICS GP-ENGINE						
	441-1218	1	FILTER GP-FUEL						

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

446-7567 ENGINE AR-PRIMARY

168 BRAKE (225 BHP) AT 2200 RPM

SMCS-1000

i05584509

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	374-7094	1	AIR COMPRESSOR GP						34
Y	377-0721	1	ALTERNATOR GP-CHARGING						231
Y	391-9611	1	BELT TENSIONER GP						40
Y	392-0632	1	BREATHER GP						131
Y	396-2617	1	CAMSHAFT GP						43
Y	373-3607	1	CONNECTION GP-WATER						157
Y	371-2536	1	CONTROL GP-ELECTRONIC						235
Y	378-8280	1	COOLER GP-ENGINE OIL						167
Y	389-3346	1	COVER GP-VALVE MECHANISM						48
Y	374-6300	1	CRANKSHAFT GP						52
Y	390-0854	1	CYLINDER BLOCK GP						54
Y	385-2572	1	CYLINDER HEAD GP						58
Y	378-8166	1	DRAIN GP-OIL						134
Y	379-0957	1	DRIVE GP-FAN						65
Y	390-5132	1	CLAMP-BAND						184
Y	415-1646	1	FILLER GP-ENGINE OIL						137
Y	415-5625	1	FILM GP						261
Y	346-0220	1	FILTER GP-ENGINE OIL						144
Y	426-3292	1	FILTER GP-FUEL						204
Y	398-7221	1	FILTER GP-FUEL						199
Y	441-1222	1	FILTER GP-FUEL						208
Y	345-8901	1	FLYWHEEL GP						76
Y	345-8838	1	HOUSING GP-FLYWHEEL						82
Y	371-2716	1	HOUSING GP-FRONT						89
Y	416-8908	1	INJECTOR GP-FUEL						216
Y	371-2478	1	JET GP-PISTON COOLING						102
Y	371-2740	1	LIFTING GP-ENGINE						104
Y	393-7694	1	MANIFOLD GP-EXHAUST						188
Y	378-8582	1	MANIFOLD GP-INLET						190
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL						238
Y	378-0593	1	PAN GP-OIL						112
Y	439-3377	1	PAN GP-OIL						114
Y	369-7304	1	PISTON & ROD GP						115
Y	378-8167	1	PLATE & FILM GP						263
Y	374-9295	1	PLUG GP-CYLINDER BLOCK						117
Y	346-2908	1	PLUG GP-ENGINE						118
Y	327-0675	1	PLUG GP-FLYWHEEL HOUSING						119
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE						122
Y	371-2554	1	PULLEY GP-CRANKSHAFT						123
Y	346-0737	1	PUMP GP-ENGINE OIL						152
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	395-0114	1	STARTING AID GP						242
Y	392-2020	1	STARTING MOTOR GP-ELECTRIC						247
Y	423-8803	1	FILM GP						262
Y	416-6969	1	TURBOCHARGER GP						194
Y	371-2745	1	VALVE GP-FLUID SAMPLING						154
Y	395-0113	1	WIRING GP-ENGINE						250
	448-4768	1	ELECTRONICS GP						

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

449-0783 ENGINE AR-PRIMARY

151 BRAKE KW (203 BHP) AT 2200 RPM

OPTIONAL FIELD REPLACEMENT ORDER 451-1222-PAGE: 55, 452-6584-PAGE: 60

PART OF 464-9337 ENGINE AR-COMPLETE

SMCS-1000

i06022716

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	375-5006	1	AIR CLEANER GP						181
			-OR-						
Y	467-1940	1	AIR CLEANER GP						182
Y	377-0720	1	ALTERNATOR GP-CHARGING						230
Y	371-2693	1	BELT TENSIONER GP						36
Y	425-0196	1	BREATHING GP						132
			-OR-						
Y	392-0632	1	BREATHING GP						131
Y	396-2615	1	CAMSHAFT GP						42
Y	373-3607	1	CONNECTION GP-WATER						157
Y	371-2536	1	CONTROL GP-ELECTRONIC						235
Y	346-0097	1	COOLER GP-ENGINE OIL						164
Y	389-3348	1	COVER GP-VALVE MECHANISM						50
Y	374-6300	1	CRANKSHAFT GP						52
Y	390-0854	1	CYLINDER BLOCK GP						54
Y	385-2572	1	CYLINDER HEAD GP						58
Y	371-2742	1	DRAIN GP-ENGINE OIL						62
Y	393-2180	1	DRIVE GP-FAN						70
Y	375-8320	1	EXTENSION GP-FAN						74
Y	452-3651	1	FAN GP						173
Y	390-3737	1	FILLER GP-ENGINE OIL						136
			-OR-						
Y	448-0944	1	FILLER GP-ENGINE OIL						142
Y	425-0197	1	FILLER GP-ENGINE OIL						139
Y	415-5625	1	FILM GP						261
Y	423-8803	1	FILM GP						262
Y	390-0060	1	FILM GP						260
Y	346-0220	1	FILTER GP-ENGINE OIL						144
Y	398-7221	1	FILTER GP-FUEL						199
			-OR-						
Y	426-3310	1	LINES GP-FUEL INJECTION						224
Y	441-1215	1	FILTER GP-FUEL						207
Y	453-7163	1	FILTER GP-FUEL						212
Y	346-0769	1	FLANGE GP-EXHAUST						185
Y	345-8961	1	FLYWHEEL GP						78
Y	439-3432	1	GAUGE GP-OIL LEVEL (DIPSTICK) (ENGINE)						149
Y	345-8839	1	HOUSING GP-FLYWHEEL						83
Y	375-4606	1	HOUSING GP-FRONT						91
Y	375-4645	1	HOUSING GP-FRONT						92
Y	371-2483	1	INJECTOR GP-FUEL						214
Y	371-2478	1	JET GP-PISTON COOLING						102
Y	416-2470	1	LIFTING GP-ENGINE						105
Y	416-7808	1	MANIFOLD GP-EXHAUST						189
Y	391-5523	1	MANIFOLD GP-INLET						191
Y	373-5023	1	MOUNTING GP-ACCESSORY MODULE						258
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL						238
Y	375-4499	1	PAN GP-OIL						110
Y	374-6301	1	PISTON & ROD GP						116
Y	346-2908	1	PLUG GP-ENGINE						118
Y	440-0026	1	PLUG GP-OIL FILTER MOUNTING						151
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE						122
Y	379-6629	1	PULLEY GP-CRANKSHAFT						125
Y	346-0737	1	PUMP GP-ENGINE OIL						152
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	456-4299	1	RADIATOR GP						180
			-OR-						
Y	456-4296	1	RADIATOR GP						179

ENGINE ARRANGEMENT

449-0783 ENGINE AR-PRIMARY (contd.)

i06022716

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	380-9279	1	STARTING AID GP						241
Y	415-4870	1	STARTING MOTOR GP-ELECTRIC						248
Y	375-5002	1	TURBOCHARGER GP						192
Y	424-5516	1	WIRING GP-ENGINE						252
	453-1370	1	ELECTRONICS GP-ENGINE						

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

449-5818 ENGINE AR-PRIMARY

186 BRAKE KW (249 BHP) AT 2200 RPM

OPTIONAL FIELD REPLACEMENT ORDER 451-1222-PAGE: 55, 452-6584-PAGE: 60

PART OF 455-9421 ENGINE AR-COMPLETE

SMCS-1000

i05959317

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	377-0721	1	ALTERNATOR GP-CHARGING						231
Y	371-2693	1	BELT TENSIONER GP						36
Y	392-0632	1	BREATHER GP						131
Y	396-2617	1	CAMSHAFT GP						43
Y	373-3607	1	CONNECTION GP-WATER						157
Y	371-2536	1	CONTROL GP-ELECTRONIC						235
Y	378-8283	1	COOLER GP-ENGINE OIL						168
Y	389-3347	1	COVER GP-VALVE MECHANISM						49
Y	374-6300	1	CRANKSHAFT GP						52
Y	390-0854	1	CYLINDER BLOCK GP						54
Y	385-2572	1	CYLINDER HEAD GP						58
Y	371-2742	1	DRAIN GP-ENGINE OIL						62
Y	415-3083	1	DRIVE GP-FAN						72
Y	375-8320	1	EXTENSION GP-FAN						74
Y	378-0627	1	FAN GP						172
Y	452-0776	1	FILLER GP-OIL						143
Y	415-5625	1	FILM GP						261
Y	346-0220	1	FILTER GP-ENGINE OIL						144
Y	426-3292	1	FILTER GP-FUEL						204
			-OR-						
Y	453-7163	1	FILTER GP-FUEL						212
Y	441-1215	1	FILTER GP-FUEL						207
Y	437-2723	1	FLYWHEEL GP						81
Y	439-3432	1	GAUGE GP-OIL LEVEL (DIPSTICK) (ENGINE)						149
Y	437-2721	1	HOUSING GP-FLYWHEEL						88
Y	375-5838	1	HOUSING GP-FRONT						94
Y	416-8908	1	INJECTOR GP-FUEL						216
Y	371-2478	1	JET GP-PISTON COOLING						102
Y	371-2735	1	LIFTING GP-ENGINE						103
Y	426-3310	1	LINES GP-FUEL INJECTION						224
Y	393-7694	1	MANIFOLD GP-EXHAUST						188
Y	391-5523	1	MANIFOLD GP-INLET						191
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL						238
Y	375-4499	1	PAN GP-OIL						110
Y	369-7304	1	PISTON & ROD GP						115
Y	378-8167	1	PLATE & FILM GP						263
Y	346-2908	1	PLUG GP-ENGINE						118
Y	440-0026	1	PLUG GP-OIL FILTER MOUNTING						151
Y	378-0629	1	COVER GP-ACCESSORY DRIVE						46
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE						122
Y	379-6629	1	PULLEY GP-CRANKSHAFT						125
Y	346-0737	1	PUMP GP-ENGINE OIL						152
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	395-0114	1	STARTING AID GP						242
Y	371-2541	1	STARTING MOTOR GP-ELECTRIC						243
Y	416-6969	1	TURBOCHARGER GP						194
Y	424-5516	1	WIRING GP-ENGINE						252
	440-1796	1	ELECTRONICS GP-ENGINE RATINGS						

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

450-7535 ENGINE AR-PRIMARY

205 BRAKE KW (275 BHP) AT 2200 RPM

OPTIONAL FIELD REPLACEMENT ORDER 451-1222-PAGE: 55, 452-6584-PAGE: 60

SMCS-1000

i06002280

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	377-0721	1	ALTERNATOR GP-CHARGING						231
Y	371-2692	1	BELT TENSIONER GP						35
Y	392-0632	1	BREATHING GP						131
Y	396-2617	1	CAMSHAFT GP						43
Y	373-3607	1	CONNECTION GP-WATER						157
Y	371-2536	1	CONTROL GP-ELECTRONIC						235
Y	378-8276	1	COOLER GP-ENGINE OIL						165
Y	389-3346	1	COVER GP-VALVE MECHANISM						48
Y	374-6300	1	CRANKSHAFT GP						52
Y	390-0854	1	CYLINDER BLOCK GP						54
Y	385-2572	1	CYLINDER HEAD GP						58
Y	380-2602	1	DRIVE GP-FAN						66
Y	393-9542	1	EXTENSION GP-FAN						75
Y	415-1646	1	FILLER GP-ENGINE OIL						137
Y	426-3292	1	FILTER GP-FUEL						204
			-OR-						
Y	453-7163	1	FILTER GP-FUEL						212
Y	345-9037	1	FLYWHEEL GP						79
Y	393-3369	1	HOUSING GP-FLYWHEEL						86
Y	371-2716	1	HOUSING GP-FRONT						89
Y	416-8908	1	INJECTOR GP-FUEL						216
Y	371-2478	1	JET GP-PISTON COOLING						102
Y	371-2735	1	LIFTING GP-ENGINE						103
Y	426-3310	1	LINES GP-FUEL INJECTION						224
Y	416-7808	1	MANIFOLD GP-EXHAUST						189
Y	391-5523	1	MANIFOLD GP-INLET						191
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL						238
Y	378-0593	1	PAN GP-OIL						112
Y	439-3377	1	PAN GP-OIL						114
Y	369-7304	1	PISTON & ROD GP						115
Y	378-8167	1	PLATE & FILM GP						263
Y	374-9295	1	PLUG GP-CYLINDER BLOCK						117
Y	346-2908	1	PLUG GP-ENGINE						118
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE						122
Y	371-2554	1	PULLEY GP-CRANKSHAFT						123
Y	346-0737	1	PUMP GP-ENGINE OIL						152
			-OR-						
Y	462-6685	1	PUMP GP-ENGINE OIL						153
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	395-0114	1	STARTING AID GP						242
Y	385-8000	1	STARTING MOTOR GP-ELECTRIC						246
Y	448-9777	1	TURBOCHARGER GP						197
Y	371-2745	1	VALVE GP-FLUID SAMPLING						154
Y	424-5516	1	WIRING GP-ENGINE						252
	447-7816	1	ELECTRONICS GP-ENGINE						

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

451-5272 ENGINE AR-PRIMARY

168 BRAKE KW (225 BHP) AT 2200 RPM

SMCS-1000

i05584505

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	392-2023	1	ALTERNATOR GP-CHARGING						233
Y	375-4479	1	BELT TENSIONER GP						37
Y	379-6637	1	BRACKET GP-MOUNTING						41
Y	392-0632	1	BREATHER GP						131
Y	396-2617	1	CAMSHAFT GP						43
Y	346-2911	1	CONNECTION GP-HEATER						155
Y	378-8581	1	CONNECTION GP-WATER						158
Y	371-2536	1	CONTROL GP-ELECTRONIC						235
Y	378-8280	1	COOLER GP-ENGINE OIL						167
Y	389-3347	1	COVER GP-VALVE MECHANISM						49
Y	374-6300	1	CRANKSHAFT GP						52
Y	390-0854	1	CYLINDER BLOCK GP						54
Y	385-2572	1	CYLINDER HEAD GP						58
Y	378-8166	1	DRAIN GP-OIL						134
Y	375-3937	1	DRIVE GP-FAN						64
Y	390-5130	1	CLAMP-BAND						183
Y	438-5978	1	FILLER GP-ENGINE OIL						140
Y	415-5625	1	FILM GP						261
Y	346-0220	1	FILTER GP-ENGINE OIL						144
Y	426-3296	1	FILTER GP-FUEL						205
Y	441-1215	1	FILTER GP-FUEL						207
Y	448-0935	1	FILTER GP-FUEL						209
Y	345-8901	1	FLYWHEEL GP						76
Y	439-3430	1	GAUGE GP-OIL LEVEL (DIPSTICK)						147
Y	345-8838	1	HOUSING GP-FLYWHEEL						82
Y	375-5838	1	HOUSING GP-FRONT						94
Y	416-8908	1	INJECTOR GP-FUEL						216
Y	371-2478	1	JET GP-PISTON COOLING						102
Y	416-2470	1	LIFTING GP-ENGINE						105
Y	393-7694	1	MANIFOLD GP-EXHAUST						188
Y	378-8582	1	MANIFOLD GP-INLET						190
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL						238
Y	378-0594	1	PAN GP-OIL						113
Y	369-7304	1	PISTON & ROD GP						115
Y	378-8167	1	PLATE & FILM GP						263
Y	346-1478	1	PLUG GP-FLYWHEEL HOUSING						121
Y	440-0026	1	PLUG GP-OIL FILTER MOUNTING						151
Y	378-0629	1	COVER GP-ACCESSORY DRIVE						46
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE						122
Y	371-2554	1	PULLEY GP-CRANKSHAFT						123
Y	346-0737	1	PUMP GP-ENGINE OIL						152
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	380-9279	1	STARTING AID GP						241
Y	415-4870	1	STARTING MOTOR GP-ELECTRIC						248
Y	423-8803	1	FILM GP						262
Y	416-6969	1	TURBOCHARGER GP						194
Y	424-5516	1	WIRING GP-ENGINE						252
	448-4768	1	ELECTRONICS GP						

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

453-7804 ENGINE AR-PRIMARY

168 BRAKE KW (225 BHP) AT 2200 RPM

FIELD REPLACEMENT ORDER 451-1222-PAGE: 55, 452-6584-PAGE: 60

PART OF 455-4836 ENGINE AR-COMPLETE

SMCS-1000

i05906414

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	448-2106	1	FITTING GP-WATER LINES						174
Y	374-7094	1	AIR COMPRESSOR GP						34
Y	440-6724	1	ALTERNATOR GP-CHARGING						234
Y	379-5585	1	BELT TENSIONER GP						38
Y	392-0632	1	BREATHER GP						131
Y	396-2617	1	CAMSHAFT GP						43
Y	390-5130	1	CLAMP-BAND						183
Y	378-8581	1	CONNECTION GP-WATER						158
Y	371-2536	1	CONTROL GP-ELECTRONIC						235
Y	378-8280	1	COOLER GP-ENGINE OIL						167
Y	389-3348	1	COVER GP-VALVE MECHANISM						50
Y	374-6300	1	CRANKSHAFT GP						52
Y	390-0854	1	CYLINDER BLOCK GP						54
Y	385-2572	1	CYLINDER HEAD GP						58
Y	393-2183	1	DRIVE GP-FAN						71
Y	371-2694	1	EXTENSION GP-FAN						73
Y	438-5978	1	FILLER GP-ENGINE OIL						140
Y	415-5625	1	FILM GP						261
Y	346-0220	1	FILTER GP-ENGINE OIL						144
Y	398-7221	1	FILTER GP-FUEL						199
Y	426-3296	1	FILTER GP-FUEL						205
Y	441-1215	1	FILTER GP-FUEL						207
Y	437-2720	1	HOUSING GP-FLYWHEEL						87
Y	375-4645	1	HOUSING GP-FRONT						92
Y	378-0632	1	HOUSING GP-FRONT						98
Y	416-8908	1	INJECTOR GP-FUEL						216
Y	371-2478	1	JET GP-PISTON COOLING						102
Y	416-2470	1	LIFTING GP-ENGINE						105
Y	393-7694	1	MANIFOLD GP-EXHAUST						188
Y	378-8582	1	MANIFOLD GP-INLET						190
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL						238
Y	378-0593	1	PAN GP-OIL						112
Y	439-3377	1	PAN GP-OIL						114
Y	369-7304	1	PISTON & ROD GP						115
Y	378-8167	1	PLATE & FILM GP						263
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE						122
Y	379-6629	1	PULLEY GP-CRANKSHAFT						125
Y	346-0737	1	PUMP GP-ENGINE OIL						152
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	371-2733	1	STARTING AID GP						240
Y	378-0590	1	STARTING MOTOR GP-ELECTRIC						245
Y	416-6968	1	TURBOCHARGER GP						193
Y	371-2745	1	VALVE GP-FLUID SAMPLING						154
Y	424-5516	1	WIRING GP-ENGINE						252
	448-4768	1	ELECTRONICS GP						

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

454-3965 ENGINE AR-PRIMARY

205 BRAKE (275 BHP) AT 2200RPM

SMCS - 1000

i05712351

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	377-0721	1	ALTERNATOR GP-CHARGING						231
Y	371-2693	1	BELT TENSIONER GP						36
Y	392-0632	1	BREATHER GP						131
Y	396-2617	1	CAMSHAFT GP						43
Y	373-3607	1	CONNECTION GP-WATER						157
Y	371-2536	1	CONTROL GP-ELECTRONIC						235
Y	378-8283	1	COOLER GP-ENGINE OIL						168
Y	389-3347	1	COVER GP-VALVE MECHANISM						49
Y	374-6300	1	CRANKSHAFT GP						52
Y	390-0854	1	CYLINDER BLOCK GP						54
Y	385-2572	1	CYLINDER HEAD GP						58
Y	371-2742	1	DRAIN GP-ENGINE OIL						62
Y	392-0468	1	DRIVE GP-FAN						68
Y	371-2694	1	EXTENSION GP-FAN						73
Y	419-6603	1	FILLER GP-ENGINE OIL						138
Y	415-5625	1	FILM GP						261
Y	346-0220	1	FILTER GP-ENGINE OIL						144
Y	426-3292	1	FILTER GP-FUEL						204
Y	441-1215	1	FILTER GP-FUEL						207
Y	377-0692	1	FLYWHEEL GP						80
Y	393-3369	1	HOUSING GP-FLYWHEEL						86
Y	371-2716	1	HOUSING GP-FRONT						89
Y	416-8908	1	INJECTOR GP-FUEL						216
Y	371-2478	1	JET GP-PISTON COOLING						102
Y	371-2735	1	LIFTING GP-ENGINE						103
Y	426-3310	1	LINES GP-FUEL INJECTION						224
Y	416-7808	1	MANIFOLD GP-EXHAUST						189
Y	391-5523	1	MANIFOLD GP-INLET						191
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL						238
Y	378-0593	1	PAN GP-OIL						112
Y	439-3431	1	GAUGE GP-OIL LEVEL (DIPSTICK)						148
Y	369-7304	1	PISTON & ROD GP						115
Y	378-8167	1	PLATE & FILM GP						263
Y	374-9295	1	PLUG GP-CYLINDER BLOCK						117
Y	346-2908	1	PLUG GP-ENGINE						118
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE						122
Y	379-6629	1	PULLEY GP-CRANKSHAFT						125
Y	346-0737	1	PUMP GP-ENGINE OIL						152
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	395-0114	1	STARTING AID GP						242
Y	371-2541	1	STARTING MOTOR GP-ELECTRIC						243
Y	448-9777	1	TURBOCHARGER GP						197
Y	371-2745	1	VALVE GP-FLUID SAMPLING						154
Y	424-5516	1	WIRING GP-ENGINE						252
	449-3320	1	ELECTRONICS GP-ENGINE						

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

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

455-9383 ENGINE AR-PRIMARY

186 BRAKE KW (249BHP) AT 2200 RPM

FIELD REPLACEMENT ORDER 451-1222-PAGE: 55, 452-6584-PAGE: 60

SMCS-1000

i06009129

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	375-5006	1	AIR CLEANER GP						181
			-OR-						
Y	467-1940	1	AIR CLEANER GP						182
Y	377-0721	1	ALTERNATOR GP-CHARGING						231
Y	371-2693	1	BELT TENSIONER GP						36
Y	392-0632	1	BREATHING GP						131
Y	396-2617	1	CAMSHAFT GP						43
Y	373-3607	1	CONNECTION GP-WATER						157
Y	371-2536	1	CONTROL GP-ELECTRONIC						235
Y	378-8280	1	COOLER GP-ENGINE OIL						167
Y	389-3346	1	COVER GP-VALVE MECHANISM						48
Y	374-6300	1	CRANKSHAFT GP						52
Y	390-0854	1	CYLINDER BLOCK GP						54
Y	385-2572	1	CYLINDER HEAD GP						58
Y	393-2180	1	DRIVE GP-FAN						70
Y	375-8320	1	EXTENSION GP-FAN						74
Y	375-4574	1	FAN GP						171
Y	390-3737	1	FILLER GP-ENGINE OIL						136
Y	415-5625	1	FILM GP						261
Y	346-0220	1	FILTER GP-ENGINE OIL						144
Y	426-3296	1	FILTER GP-FUEL						205
			-OR-						
Y	453-7163	1	FILTER GP-FUEL						212
Y	441-1215	1	FILTER GP-FUEL						207
Y	448-0935	1	FILTER GP-FUEL						209
Y	346-0769	1	FLANGE GP-EXHAUST						185
Y	345-9037	1	FLYWHEEL GP						79
Y	439-3432	1	GAUGE GP-OIL LEVEL (DIPSTICK)						149
Y	357-1915	1	HOUSING GP-FLYWHEEL						84
Y	378-0630	1	HOUSING GP-FRONT						96
Y	448-9719	1	HOUSING GP-FRONT						101
Y	416-8908	1	INJECTOR GP-FUEL						216
Y	371-2478	1	JET GP-PISTON COOLING						102
Y	416-2470	1	LIFTING GP-ENGINE						105
Y	416-7808	1	MANIFOLD GP-EXHAUST						189
Y	391-5523	1	MANIFOLD GP-INLET						191
Y	346-1512	1	MOUNTING GP-ACCESSORY MODULE						256
Y	448-9710	1	MOUNTING GP-ACCESSORY MODULE						258
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL						238
Y	375-4499	1	PAN GP-OIL						110
Y	369-7304	1	PISTON & ROD GP						115
Y	378-8167	1	PLATE & FILM GP						263
Y	440-0026	1	PLUG GP-OIL FILTER MOUNTING						151
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE						122
Y	379-6629	1	PULLEY GP-CRANKSHAFT						125
Y	346-0737	1	PUMP GP-ENGINE OIL						152
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	452-5153	1	RADIATOR GP						177
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	395-0114	1	STARTING AID GP						242
Y	378-0590	1	STARTING MOTOR GP-ELECTRIC						245
Y	416-6971	1	TURBOCHARGER GP						195
Y	424-5516	1	WIRING GP-ENGINE						252
	440-1796	1	ELECTRONICS GP-ENGINE RATINGS						

ENGINE ARRANGEMENT

455-9383 ENGINE AR-PRIMARY (contd.) i06009129

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

ENGINE ARRANGEMENT

456-7962 ENGINE AR-PRIMARY

SMCS-1000

i05946441

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	375-5006	1	AIR CLEANER GP						181
			-OR-						
Y	467-1940	1	AIR CLEANER GP						182
Y	377-0721	1	ALTERNATOR GP-CHARGING						231
Y	371-2693	1	BELT TENSIONER GP						36
Y	425-0196	1	BREATHER GP						132
Y	396-2617	1	CAMSHAFT GP						43
Y	390-5132	1	CLAMP-BAND						184
			-OR-						
Y	346-0769	1	FLANGE GP-EXHAUST						185
Y	373-3607	1	CONNECTION GP-WATER						157
Y	371-2536	1	CONTROL GP-ELECTRONIC						235
Y	378-8276	1	COOLER GP-ENGINE OIL						165
Y	389-3346	1	COVER GP-VALVE MECHANISM						48
Y	374-6300	1	CRANKSHAFT GP						52
Y	390-0854	1	CYLINDER BLOCK GP						54
Y	385-2572	1	CYLINDER HEAD GP						58
Y	393-2180	1	DRIVE GP-FAN						70
Y	375-8320	1	EXTENSION GP-FAN						74
Y	375-4574	1	FAN GP						171
Y	390-3737	1	FILLER GP-ENGINE OIL						136
Y	425-0197	1	FILLER GP-ENGINE OIL						139
Y	415-5625	1	FILM GP						261
Y	346-0220	1	FILTER GP-ENGINE OIL						144
Y	441-1215	1	FILTER GP-FUEL						207
Y	426-3292	1	FILTER GP-FUEL						204
			-OR-						
Y	453-7163	1	FILTER GP-FUEL						212
Y	345-9037	1	FLYWHEEL GP						79
Y	439-3432	1	GAUGE GP-OIL LEVEL (DIPSTICK)						149
Y	393-3369	1	HOUSING GP-FLYWHEEL						86
Y	375-5838	1	HOUSING GP-FRONT						94
Y	416-8908	1	INJECTOR GP-FUEL						216
Y	371-2478	1	JET GP-PISTON COOLING						102
Y	416-2470	1	LIFTING GP-ENGINE						105
Y	426-3310	1	LINES GP-FUEL INJECTION						224
Y	416-7808	1	MANIFOLD GP-EXHAUST						189
Y	391-5523	1	MANIFOLD GP-INLET						191
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL						238
Y	375-4499	1	PAN GP-OIL						110
Y	369-7304	1	PISTON & ROD GP						115
Y	378-8167	1	PLATE & FILM GP						263
Y	346-2908	1	PLUG GP-ENGINE						118
Y	440-0026	1	PLUG GP-OIL FILTER MOUNTING						151
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE						122
Y	379-6629	1	PULLEY GP-CRANKSHAFT						125
Y	346-0737	1	PUMP GP-ENGINE OIL						152
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	452-5153	1	RADIATOR GP						177
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	395-0114	1	STARTING AID GP						242
Y	385-8000	1	STARTING MOTOR GP-ELECTRIC						246
Y	371-2719	1	SUPPORT GP-POWER TAKE-OFF						130
Y	416-6971	1	TURBOCHARGER GP						195
Y	424-5516	1	WIRING GP-ENGINE						252
	448-4768	1	ELECTRONICS GP						
	376-6464	1	PLATE GP						

ENGINE ARRANGEMENT

456-7962 ENGINE AR-PRIMARY (contd.)

i05946441

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y - SEPARATE ILLUSTRATION									
<END>									

ENGINE ARRANGEMENT

461-4645 ENGINE AR-PRIMARY

151 BRAKE KW (202 BHP) AT 2200 RPM

FIELD REPLACEMENT ORDER 451-1222-PAGE: 55, 452-6584-PAGE: 60

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i06101184

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	375-5006	1	AIR CLEANER GP						181
			-OR-						
Y	467-1940	1	AIR CLEANER GP						182
Y	377-0720	1	ALTERNATOR GP-CHARGING						230
Y	371-2693	1	BELT TENSIONER GP						36
Y	425-0196	1	BREATHING GP						132
Y	396-2615	1	CAMSHAFT GP						42
Y	373-3607	1	CONNECTION GP-WATER						157
Y	371-2536	1	CONTROL GP-ELECTRONIC						235
Y	346-0091	1	COOLER GP-ENGINE OIL						163
Y	389-3346	1	COVER GP-VALVE MECHANISM						48
Y	374-6300	1	CRANKSHAFT GP						52
Y	390-0854	1	CYLINDER BLOCK GP						54
Y	385-2572	1	CYLINDER HEAD GP						58
Y	393-2180	1	DRIVE GP-FAN						70
Y	375-8320	1	EXTENSION GP-FAN						74
Y	454-5203	1	FAN AS						170
Y	390-3737	1	FILLER GP-ENGINE OIL						136
Y	425-0197	1	FILLER GP-ENGINE OIL						139
Y	415-5625	1	FILM GP						261
Y	423-8803	1	FILM GP						262
Y	346-0220	1	FILTER GP-ENGINE OIL						144
Y	441-1215	1	FILTER GP-FUEL						207
Y	453-7163	1	FILTER GP-FUEL						212
Y	346-0769	1	FLANGE GP-EXHAUST						185
Y	345-8902	1	FLYWHEEL GP						77
Y	439-3432	1	GAUGE GP-OIL LEVEL (DIPSTICK)						149
Y	345-8838	1	HOUSING GP-FLYWHEEL						82
Y	375-5838	1	HOUSING GP-FRONT						94
Y	371-2483	1	INJECTOR GP-FUEL						214
Y	371-2478	1	JET GP-PISTON COOLING						102
Y	416-2470	1	LIFTING GP-ENGINE						105
Y	426-3310	1	LINES GP-FUEL INJECTION						224
Y	416-7808	1	MANIFOLD GP-EXHAUST						189
Y	391-5523	1	MANIFOLD GP-INLET						191
Y	346-1528	1	MOUNTING GP-ACCESSORY MODULE						257
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL						238
Y	375-4499	1	PAN GP-OIL						110
Y	374-6301	1	PISTON & ROD GP						116
Y	378-8167	1	PLATE & FILM GP						263
Y	346-2908	1	PLUG GP-ENGINE						118
Y	440-0026	1	PLUG GP-OIL FILTER MOUNTING						151
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE						122
Y	379-6629	1	PULLEY GP-CRANKSHAFT						125
Y	346-0737	1	PUMP GP-ENGINE OIL						152
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	454-6966	1	RADIATOR GP						178
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	380-9279	1	STARTING AID GP						241
Y	415-4870	1	STARTING MOTOR GP-ELECTRIC						248
Y	371-2719	1	SUPPORT GP-POWER TAKE-OFF						130
Y	375-5002	1	TURBOCHARGER GP						192
Y	424-5516	1	WIRING GP-ENGINE						252
	453-1370	1	ELECTRONICS GP-ENGINE						

ENGINE ARRANGEMENT

461-4645 ENGINE AR-PRIMARY (contd.)

i06101184

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y - SEPARATE ILLUSTRATION									
<END>									

ENGINE ARRANGEMENT

461-4651 ENGINE AR-PRIMARY

PART OF 462-8110 ENGINE AR-COMPLETE

SMCS-1000

i06102745

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	375-5006	1	AIR CLEANER GP						181
			-OR-						
Y	467-1940	1	AIR CLEANER GP						182
Y	377-0720	1	ALTERNATOR GP-CHARGING						230
Y	371-2693	1	BELT TENSIONER GP						36
Y	425-0196	1	BREATHING GP						132
Y	396-2617	1	CAMSHAFT GP						43
Y	373-3607	1	CONNECTION GP-WATER						157
Y	371-2536	1	CONTROL GP-ELECTRONIC						235
Y	378-8276	1	COOLER GP-ENGINE OIL						165
Y	389-3346	1	COVER GP-VALVE MECHANISM						48
Y	374-6300	1	CRANKSHAFT GP						52
Y	390-0854	1	CYLINDER BLOCK GP						54
Y	385-2572	1	CYLINDER HEAD GP						58
Y	393-2180	1	DRIVE GP-FAN						70
Y	375-8320	1	EXTENSION GP-FAN						74
Y	454-5203	1	FAN AS						170
			-OR-						
Y	378-0627	1	FAN GP						172
Y	390-3737	1	FILLER GP-ENGINE OIL						136
Y	425-0197	1	FILLER GP-ENGINE OIL						139
Y	415-5625	1	FILM GP						261
Y	423-8803	1	FILM GP						262
Y	346-0220	1	FILTER GP-ENGINE OIL						144
Y	441-1215	1	FILTER GP-FUEL						207
Y	453-7163	1	FILTER GP-FUEL						212
Y	346-0769	1	FLANGE GP-EXHAUST						185
Y	345-8902	1	FLYWHEEL GP						77
Y	439-3432	1	GAUGE GP-OIL LEVEL (DIPSTICK)						149
Y	345-8838	1	HOUSING GP-FLYWHEEL						82
Y	375-5838	1	HOUSING GP-FRONT						94
Y	416-8908	1	INJECTOR GP-FUEL						216
Y	371-2478	1	JET GP-PISTON COOLING						102
Y	416-2470	1	LIFTING GP-ENGINE						105
Y	426-3310	1	LINES GP-FUEL INJECTION						224
Y	416-7808	1	MANIFOLD GP-EXHAUST						189
Y	391-5523	1	MANIFOLD GP-INLET						191
Y	346-1528	1	MOUNTING GP-ACCESSORY MODULE						257
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL						238
Y	375-4499	1	PAN GP-OIL						110
Y	369-7304	1	PISTON & ROD GP						115
Y	378-8167	1	PLATE & FILM GP						263
Y	346-2908	1	PLUG GP-ENGINE						118
Y	440-0026	1	PLUG GP-OIL FILTER MOUNTING						151
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE						122
Y	379-6629	1	PULLEY GP-CRANKSHAFT						125
Y	346-0737	1	PUMP GP-ENGINE OIL						152
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	454-6966	1	RADIATOR GP						178
			-OR-						
Y	452-5153	1	RADIATOR GP						177
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	380-9279	1	STARTING AID GP						241
Y	415-4870	1	STARTING MOTOR GP-ELECTRIC						248
Y	371-2719	1	SUPPORT GP-POWER TAKE-OFF						130
Y	416-6971	1	TURBOCHARGER GP						195
Y	424-5516	1	WIRING GP-ENGINE						252

ENGINE ARRANGEMENT

461-4651 ENGINE AR-PRIMARY (contd.)

i06102745

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	448-4768	1	ELECTRONICS GP						
	376-6464	1	PLATE GP						
Y - SEPARATE ILLUSTRATION									

<END>

ENGINE ARRANGEMENT

461-4653 ENGINE AR-PRIMARY

168 BRAKE KW (225 BHP) AT 2200 RPM

FIELD REPLACEMENT ORDER 451-1222-PAGE: 55, 452-6584-PAGE: 60

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i06022477

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	375-5006	1	AIR CLEANER GP						181
Y	377-0720	1	ALTERNATOR GP-CHARGING						230
Y	371-2693	1	BELT TENSIONER GP						36
Y	425-0196	1	BREATHER GP						132
Y	396-2617	1	CAMSHAFT GP						43
Y	373-3607	1	CONNECTION GP-WATER						157
Y	371-2536	1	CONTROL GP-ELECTRONIC						235
Y	378-8276	1	COOLER GP-ENGINE OIL						165
Y	389-3346	1	COVER GP-VALVE MECHANISM						48
Y	374-6300	1	CRANKSHAFT GP						52
Y	390-0854	1	CYLINDER BLOCK GP						54
Y	385-2572	1	CYLINDER HEAD GP						58
Y	393-2180	1	DRIVE GP-FAN						70
Y	375-8320	1	EXTENSION GP-FAN						74
Y	454-5203	1	FAN AS						170
Y	390-3737	1	FILLER GP-ENGINE OIL						136
Y	425-0197	1	FILLER GP-ENGINE OIL						139
Y	415-5625	1	FILM GP						261
Y	423-8803	1	FILM GP						262
Y	346-0220	1	FILTER GP-ENGINE OIL						144
Y	441-1215	1	FILTER GP-FUEL						207
Y	453-7163	1	FILTER GP-FUEL						212
Y	346-0769	1	FLANGE GP-EXHAUST						185
Y	345-9037	1	FLYWHEEL GP						79
Y	439-3432	1	GAUGE GP-OIL LEVEL (DIPSTICK)						149
Y	393-3369	1	HOUSING GP-FLYWHEEL						86
Y	375-5838	1	HOUSING GP-FRONT						94
Y	416-8908	1	INJECTOR GP-FUEL						216
Y	371-2478	1	JET GP-PISTON COOLING						102
Y	416-2470	1	LIFTING GP-ENGINE						105
Y	426-3310	1	LINES GP-FUEL INJECTION						224
Y	416-7808	1	MANIFOLD GP-EXHAUST						189
Y	391-5523	1	MANIFOLD GP-INLET						191
Y	346-1512	1	MOUNTING GP-ACCESSORY MODULE						256
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL						238
Y	375-4499	1	PAN GP-OIL						110
Y	369-7304	1	PISTON & ROD GP						115
Y	378-8167	1	PLATE & FILM GP						263
Y	346-2908	1	PLUG GP-ENGINE						118
Y	440-0026	1	PLUG GP-OIL FILTER MOUNTING						151
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE						122
Y	379-6629	1	PULLEY GP-CRANKSHAFT						125
Y	346-0737	1	PUMP GP-ENGINE OIL						152
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	454-6966	1	RADIATOR GP						178
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	380-9279	1	STARTING AID GP						241
Y	378-0589	1	STARTING MOTOR GP-ELECTRIC						244
Y	371-2719	1	SUPPORT GP-POWER TAKE-OFF						130
Y	416-6971	1	TURBOCHARGER GP						195
Y	424-5516	1	WIRING GP-ENGINE						252
	448-4768	1	ELECTRONICS GP						

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

461-4657 ENGINE AR-PRIMARY

186 BRAKE KW (249 BHP) AT 2200 RPM

FIELD REPLACEMENT ORDER 451-1222-PAGE: 55, 452-6584-PAGE: 60

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i06022503

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	375-5006	1	AIR CLEANER GP						181
Y	377-0721	1	ALTERNATOR GP-CHARGING						231
Y	371-2693	1	BELT TENSIONER GP						36
Y	425-0196	1	BREATHER GP						132
Y	396-2617	1	CAMSHAFT GP						43
Y	373-3607	1	CONNECTION GP-WATER						157
Y	371-2536	1	CONTROL GP-ELECTRONIC						235
Y	378-8276	1	COOLER GP-ENGINE OIL						165
Y	389-3346	1	COVER GP-VALVE MECHANISM						48
Y	374-6300	1	CRANKSHAFT GP						52
Y	390-0854	1	CYLINDER BLOCK GP						54
Y	385-2572	1	CYLINDER HEAD GP						58
Y	393-2180	1	DRIVE GP-FAN						70
Y	375-8320	1	EXTENSION GP-FAN						74
Y	454-5203	1	FAN AS						170
Y	390-3737	1	FILLER GP-ENGINE OIL						136
Y	425-0197	1	FILLER GP-ENGINE OIL						139
Y	415-5625	1	FILM GP						261
Y	346-0220	1	FILTER GP-ENGINE OIL						144
Y	441-1215	1	FILTER GP-FUEL						207
Y	453-7163	1	FILTER GP-FUEL						212
Y	346-0769	1	FLANGE GP-EXHAUST						185
Y	345-9037	1	FLYWHEEL GP						79
Y	439-3432	1	GAUGE GP-OIL LEVEL (DIPSTICK)						149
Y	393-3369	1	HOUSING GP-FLYWHEEL						86
Y	375-5838	1	HOUSING GP-FRONT						94
Y	416-8908	1	INJECTOR GP-FUEL						216
Y	371-2478	1	JET GP-PISTON COOLING						102
Y	416-2470	1	LIFTING GP-ENGINE						105
Y	426-3310	1	LINES GP-FUEL INJECTION						224
Y	416-7808	1	MANIFOLD GP-EXHAUST						189
Y	391-5523	1	MANIFOLD GP-INLET						191
Y	346-1512	1	MOUNTING GP-ACCESSORY MODULE						256
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL						238
Y	375-4499	1	PAN GP-OIL						110
Y	369-7304	1	PISTON & ROD GP						115
Y	378-8167	1	PLATE & FILM GP						263
Y	346-2908	1	PLUG GP-ENGINE						118
Y	440-0026	1	PLUG GP-OIL FILTER MOUNTING						151
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE						122
Y	379-6629	1	PULLEY GP-CRANKSHAFT						125
Y	346-0737	1	PUMP GP-ENGINE OIL						152
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	454-6966	1	RADIATOR GP						178
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	395-0114	1	STARTING AID GP						242
Y	385-8000	1	STARTING MOTOR GP-ELECTRIC						246
Y	371-2719	1	SUPPORT GP-POWER TAKE-OFF						130
Y	416-6971	1	TURBOCHARGER GP						195
Y	424-5516	1	WIRING GP-ENGINE						252
	440-1796	1	ELECTRONICS GP-ENGINE RATINGS						

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

461-4661 ENGINE AR-PRIMARY

205 BRAKE KW (275 BHP) AT 2200 RPM

FIELD REPLACEMENT ORDER 451-1222-PAGE: 55, 452-6584-PAGE: 60

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i06022513

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	375-5006	1	AIR CLEANER GP						181
Y	377-0721	1	ALTERNATOR GP-CHARGING						231
Y	371-2693	1	BELT TENSIONER GP						36
Y	425-0196	1	BREATHER GP						132
Y	396-2617	1	CAMSHAFT GP						43
Y	373-3607	1	CONNECTION GP-WATER						157
Y	371-2536	1	CONTROL GP-ELECTRONIC						235
Y	378-8276	1	COOLER GP-ENGINE OIL						165
Y	389-3346	1	COVER GP-VALVE MECHANISM						48
Y	374-6300	1	CRANKSHAFT GP						52
Y	390-0854	1	CYLINDER BLOCK GP						54
Y	385-2572	1	CYLINDER HEAD GP						58
Y	393-2180	1	DRIVE GP-FAN						70
Y	375-8320	1	EXTENSION GP-FAN						74
Y	454-5203	1	FAN AS						170
Y	390-3737	1	FILLER GP-ENGINE OIL						136
Y	425-0197	1	FILLER GP-ENGINE OIL						139
Y	415-5625	1	FILM GP						261
Y	346-0220	1	FILTER GP-ENGINE OIL						144
Y	441-1215	1	FILTER GP-FUEL						207
Y	453-7163	1	FILTER GP-FUEL						212
Y	346-0769	1	FLANGE GP-EXHAUST						185
Y	437-2723	1	FLYWHEEL GP						81
Y	439-3432	1	GAUGE GP-OIL LEVEL (DIPSTICK)						149
Y	437-2721	1	HOUSING GP-FLYWHEEL						88
Y	375-5838	1	HOUSING GP-FRONT						94
Y	416-8908	1	INJECTOR GP-FUEL						216
Y	371-2478	1	JET GP-PISTON COOLING						102
Y	416-2470	1	LIFTING GP-ENGINE						105
Y	426-3310	1	LINES GP-FUEL INJECTION						224
Y	416-7808	1	MANIFOLD GP-EXHAUST						189
Y	391-5523	1	MANIFOLD GP-INLET						191
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL						238
Y	458-2242	1	MOUNTING GP-ENGINE						107
Y	375-4499	1	PAN GP-OIL						110
Y	369-7304	1	PISTON & ROD GP						115
Y	378-8167	1	PLATE & FILM GP						263
Y	346-2908	1	PLUG GP-ENGINE						118
Y	440-0026	1	PLUG GP-OIL FILTER MOUNTING						151
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE						122
Y	379-6629	1	PULLEY GP-CRANKSHAFT						125
Y	346-0737	1	PUMP GP-ENGINE OIL						152
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	454-6966	1	RADIATOR GP						178
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	395-0114	1	STARTING AID GP						242
Y	385-8000	1	STARTING MOTOR GP-ELECTRIC						246
Y	371-2719	1	SUPPORT GP-POWER TAKE-OFF						130
Y	416-6971	1	TURBOCHARGER GP						195
Y	424-5516	1	WIRING GP-ENGINE						252
	449-3320	1	ELECTRONICS GP-ENGINE						

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

461-4662 ENGINE AR-PRIMARY

PART OF 462-9442 GENERAL AR

SMCS-1000

i06102735

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	375-5006	1	AIR CLEANER GP						181
			-OR-						
Y	467-1940	1	AIR CLEANER GP						182
Y	377-0720	1	ALTERNATOR GP-CHARGING						230
Y	371-2693	1	BELT TENSIONER GP						36
Y	425-0196	1	BREATHING GP						132
Y	396-2617	1	CAMSHAFT GP						43
Y	373-3607	1	CONNECTION GP-WATER						157
Y	371-2536	1	CONTROL GP-ELECTRONIC						235
Y	378-8276	1	COOLER GP-ENGINE OIL						165
Y	389-3346	1	COVER GP-VALVE MECHANISM						48
Y	374-6300	1	CRANKSHAFT GP						52
Y	390-0854	1	CYLINDER BLOCK GP						54
Y	385-2572	1	CYLINDER HEAD GP						58
Y	393-2180	1	DRIVE GP-FAN						70
Y	375-8320	1	EXTENSION GP-FAN						74
Y	454-5203	1	FAN AS						170
			-OR-						
Y	378-0627	1	FAN GP						172
Y	390-3737	1	FILLER GP-ENGINE OIL						136
Y	425-0197	1	FILLER GP-ENGINE OIL						139
Y	415-5625	1	FILM GP						261
Y	423-8803	1	FILM GP						262
Y	346-0220	1	FILTER GP-ENGINE OIL						144
Y	441-1215	1	FILTER GP-FUEL						207
Y	453-7163	1	FILTER GP-FUEL						212
Y	346-0769	1	FLANGE GP-EXHAUST						185
Y	437-2723	1	FLYWHEEL GP						81
Y	439-3432	1	GAUGE GP-OIL LEVEL (DIPSTICK)						149
Y	437-2721	1	HOUSING GP-FLYWHEEL						88
Y	375-5838	1	HOUSING GP-FRONT						94
Y	416-8908	1	INJECTOR GP-FUEL						216
Y	371-2478	1	JET GP-PISTON COOLING						102
Y	416-2470	1	LIFTING GP-ENGINE						105
Y	426-3310	1	LINES GP-FUEL INJECTION						224
Y	416-7808	1	MANIFOLD GP-EXHAUST						189
Y	391-5523	1	MANIFOLD GP-INLET						191
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL						238
Y	458-2242	1	MOUNTING GP-ENGINE						107
Y	375-4499	1	PAN GP-OIL						110
Y	369-7304	1	PISTON & ROD GP						115
Y	378-8167	1	PLATE & FILM GP						263
Y	346-2908	1	PLUG GP-ENGINE						118
Y	440-0026	1	PLUG GP-OIL FILTER MOUNTING						151
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE						122
Y	379-6629	1	PULLEY GP-CRANKSHAFT						125
Y	346-0737	1	PUMP GP-ENGINE OIL						152
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	454-6966	1	RADIATOR GP						178
			-OR-						
Y	452-5153	1	RADIATOR GP						177
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	380-9279	1	STARTING AID GP						241
Y	378-0589	1	STARTING MOTOR GP-ELECTRIC						244
Y	371-2719	1	SUPPORT GP-POWER TAKE-OFF						130
Y	416-6971	1	TURBOCHARGER GP						195
Y	424-5516	1	WIRING GP-ENGINE						252

ENGINE ARRANGEMENT

461-4662 ENGINE AR-PRIMARY (contd.)

i06102735

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	440-1796	1	ELECTRONICS GP-ENGINE RATINGS						
	376-6464	1	PLATE GP						
Y - SEPARATE ILLUSTRATION									

<END>

ENGINE ARRANGEMENT

461-5454 ENGINE AR-PRIMARY

168 BRAKE KW (225 BHP) AT 2200 RPM

OPTIONAL FIELD REPLACEMENT ORDER 451-1222-PAGE: 55, 452-6584-PAGE: 60

SMCS-1000

i05933993

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	385-8001	1	ALTERNATOR GP-CHARGING						232
Y	391-9610	1	BELT TENSIONER GP						39
Y	425-0196	1	BREATHER GP						132
Y	396-2617	1	CAMSHAFT GP						43
Y	390-5130	1	CLAMP-BAND						183
Y	378-8581	1	CONNECTION GP-WATER						158
Y	371-2536	1	CONTROL GP-ELECTRONIC						235
Y	378-8280	1	COOLER GP-ENGINE OIL						167
Y	389-3348	1	COVER GP-VALVE MECHANISM						50
Y	374-6300	1	CRANKSHAFT GP						52
Y	390-0854	1	CYLINDER BLOCK GP						54
Y	385-2572	1	CYLINDER HEAD GP						58
Y	438-5983	1	FILLER GP-ENGINE OIL						141
Y	425-0197	1	FILLER GP-ENGINE OIL						139
Y	346-0220	1	FILTER GP-ENGINE OIL						144
Y	441-1215	1	FILTER GP-FUEL						207
Y	453-7163	1	FILTER GP-FUEL						212
Y	345-8901	1	FLYWHEEL GP						76
Y	439-3432	1	GAUGE GP-OIL LEVEL (DIPSTICK) (ENGINE)						149
Y	345-8839	1	HOUSING GP-FLYWHEEL						83
Y	375-5838	1	HOUSING GP-FRONT						94
Y	416-8908	1	INJECTOR GP-FUEL						216
Y	371-2478	1	JET GP-PISTON COOLING						102
Y	416-2470	1	LIFTING GP-ENGINE						105
Y	426-3310	1	LINES GP-FUEL INJECTION						224
Y	393-7694	1	MANIFOLD GP-EXHAUST						188
Y	391-5523	1	MANIFOLD GP-INLET						191
Y	395-0112	1	MOUNTING GP-ELECTRONIC CONTROL						238
Y	375-4499	1	PAN GP-OIL						110
Y	369-7304	1	PISTON & ROD GP						115
Y	378-8167	1	PLATE & FILM GP						263
Y	380-1084	1	PLUG AS						259
Y	346-2908	1	PLUG GP-ENGINE						118
Y	440-0026	1	PLUG GP-OIL FILTER MOUNTING						151
Y	378-0629	1	COVER GP-ACCESSORY DRIVE						46
Y	375-0098	1	PULLEY GP-AUXILIARY DRIVE						122
Y	379-6629	1	PULLEY GP-CRANKSHAFT						125
Y	346-0737	1	PUMP GP-ENGINE OIL						152
Y	391-4811	1	PUMP GP-FUEL INJECTION						226
Y	372-2297	1	PUMP GP-WATER						175
Y	394-9639	1	RAIL GP-FUEL						227
Y	371-2480	1	ROCKER ARM GP						128
Y	395-0110	1	SENSOR GP-ENGINE						239
Y	395-0114	1	STARTING AID GP						242
Y	392-2020	1	STARTING MOTOR GP-ELECTRIC						247
Y	416-6969	1	TURBOCHARGER GP						194
Y	424-5516	1	WIRING GP-ENGINE						252
	448-4768	1	ELECTRONICS GP						

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

462-9442 CONFIGURATION AR

SMCS-1000, 4450

i06102730

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	451-8385	1	CYLINDER BLOCK GP-SHORT	56
Y	452-6582	1	CYLINDER HEAD GP	59
Y	461-4662	1	ENGINE AR-PRIMARY	29

Y - SEPARATE ILLUSTRATION

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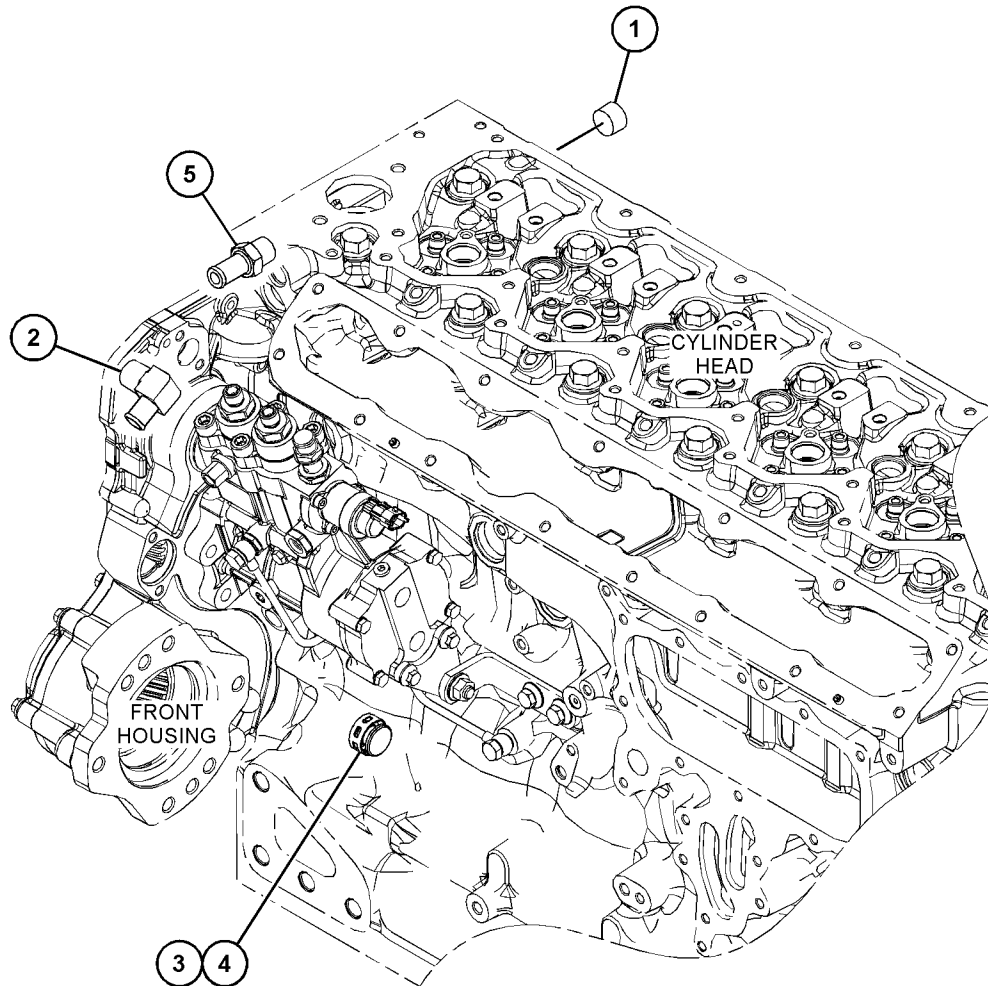
BASIC ENGINE

450-4794 ACCESSORY GP-ENGINE

SMCS-1358, 1405, 1802

i05726970

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	067-6823	1	PLUG						
	2	1	9X-3959	1	ELBOW						
	3	1	293-4774	1	CLIP						
	4	1	293-4780	1	PLUG						
	5	1	7W-4669	1	ADAPTER						



GRAPHIC #1

<END>

g03665558

BASIC ENGINE

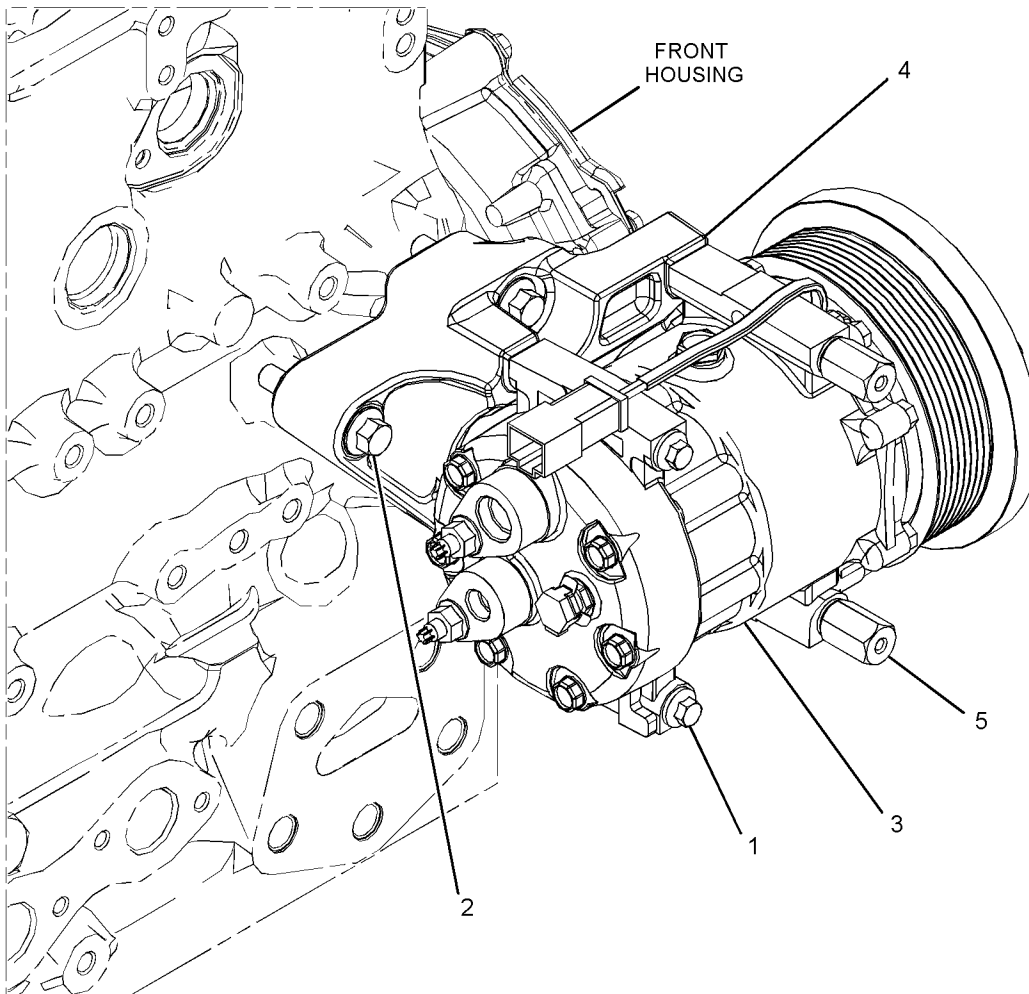
374-7094 AIR COMPRESSOR GP

SMCS-1803

i05582392

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	127-3361	2	BOLT (M8X1.25X95-MM)						
	2	1	101-7178	3	BOLT (M10X1.5X55-MM)						
Y	3	1	320-1291	1	COMPRESSOR GP-REFRIGERANT						45
	4	1	330-1725	1	BRACKET AS						
		1	161-9820	2	PIN						
	5	1	346-2999	2	BOLT (M8X1.25X16.6-MM)						

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

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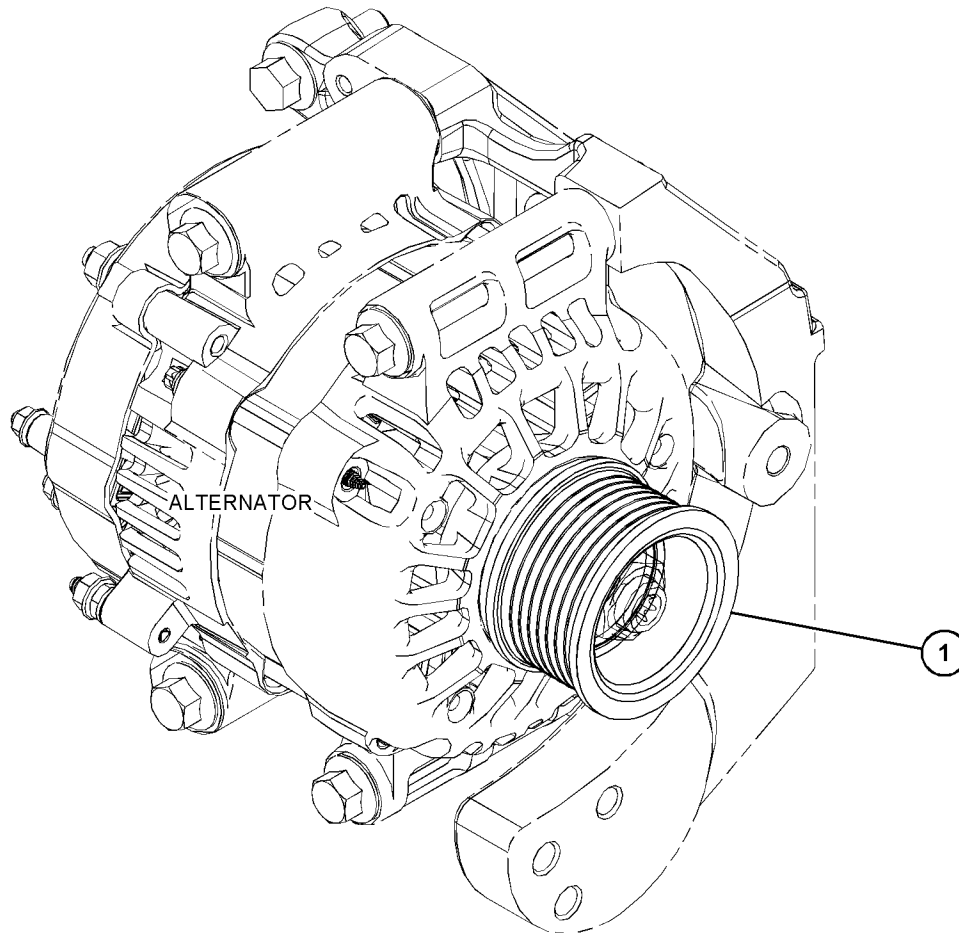
BASIC ENGINE

371-2692 BELT TENSIONER GP

SMCS-1358

i05722435

NOTE	REF	GRAPHIC	PART NUMBER	QTY	PART NAME						SEE PAGE
	NO	REF			1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	321-6131	1	PULLEY (8-GROOVE) (ALTERNATOR)						



GRAPHIC #1

<END>

g03650264

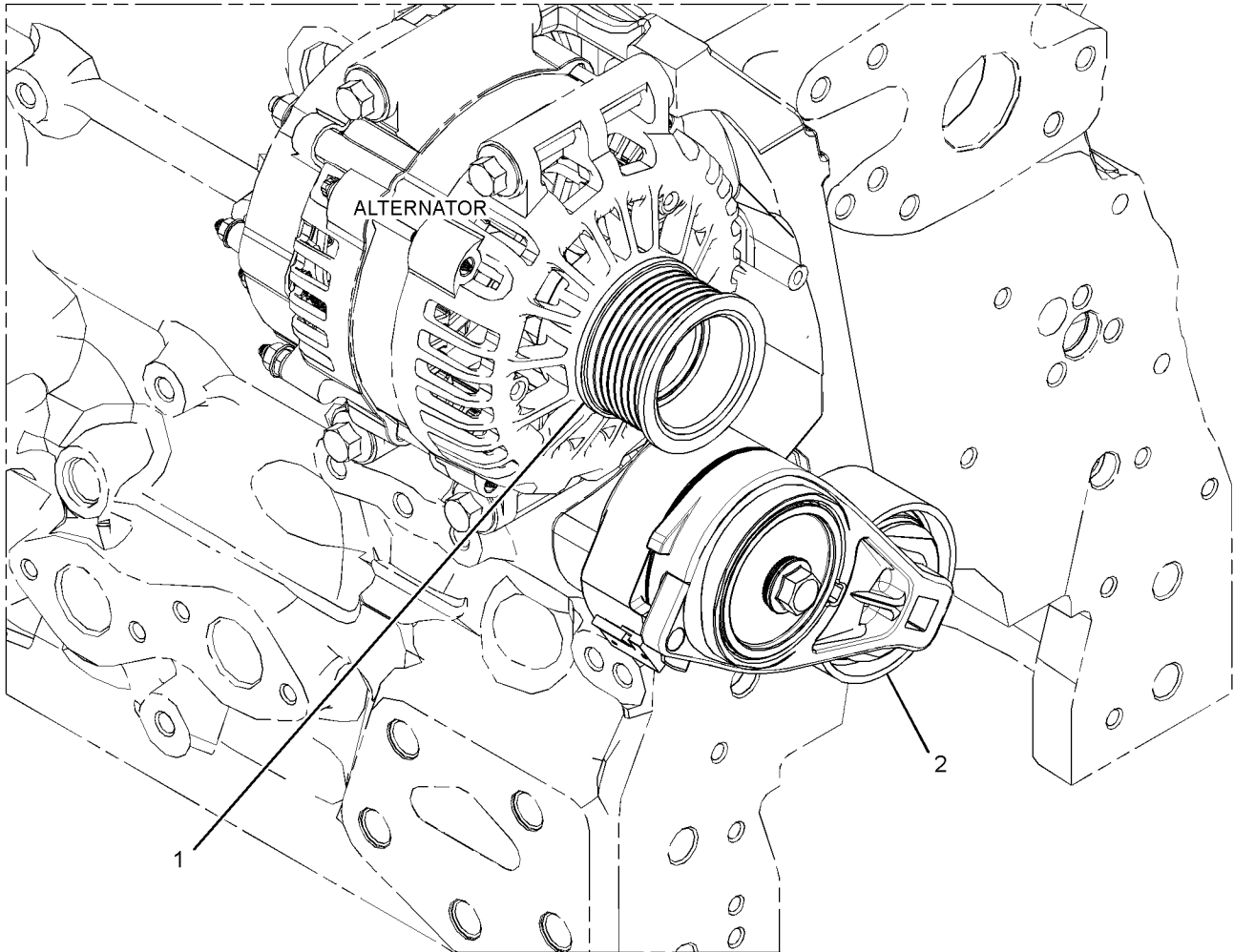
BASIC ENGINE

371-2693 BELT TENSIONER GP

SMCS-1358

i05723852

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	321-6131	1	PULLEY (8-GROOVE)						
	2	1	377-9082	1	BELT TENSIONER						



GRAPHIC #1

<END>

g02736725

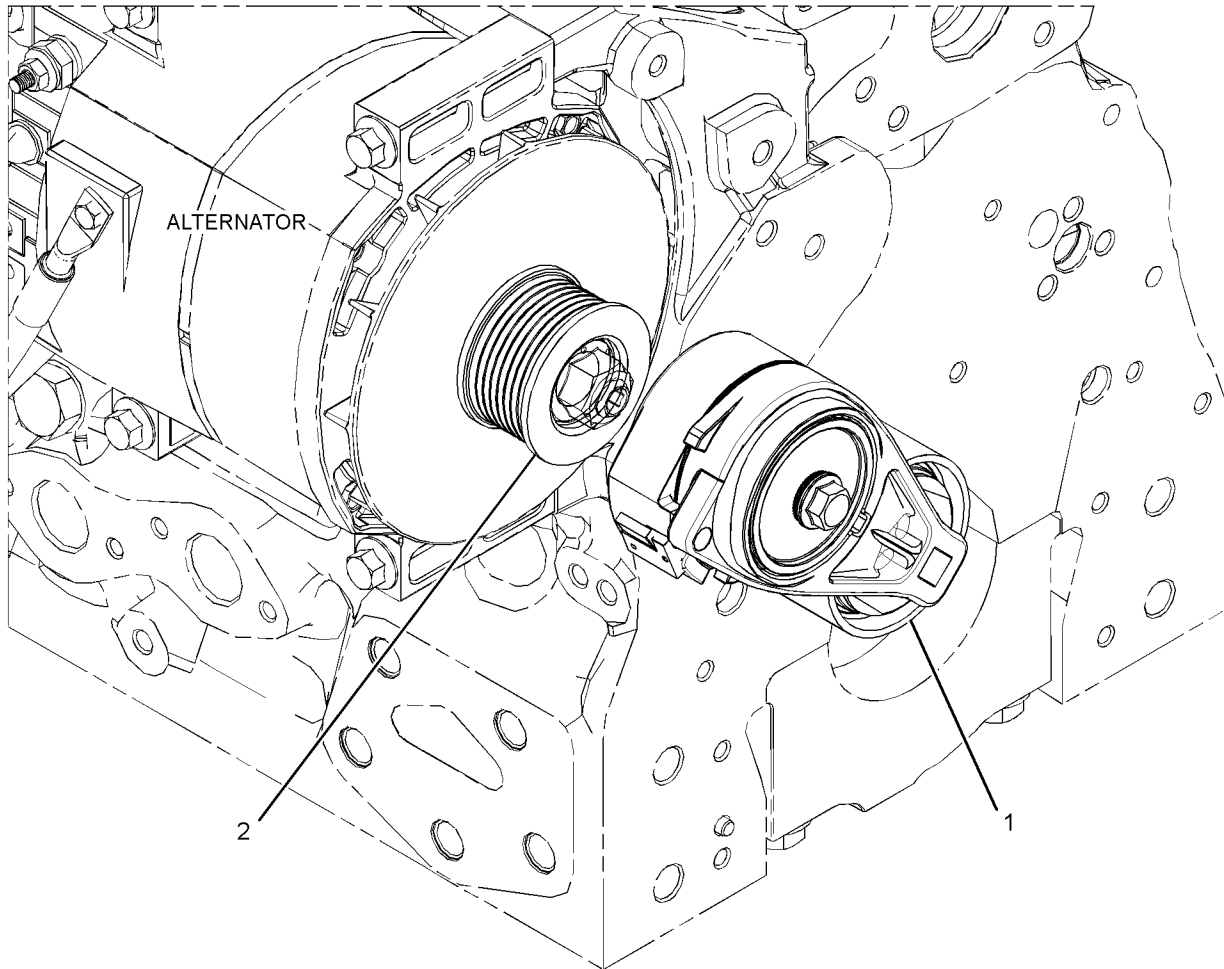
BASIC ENGINE

375-4479 BELT TENSIONER GP

SMCS-1358

i05582479

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	369-1255	1	TENSIONER						
	2	1	337-6324	1	PULLEY						



GRAPHIC #1

<END>

g02406802

BASIC ENGINE

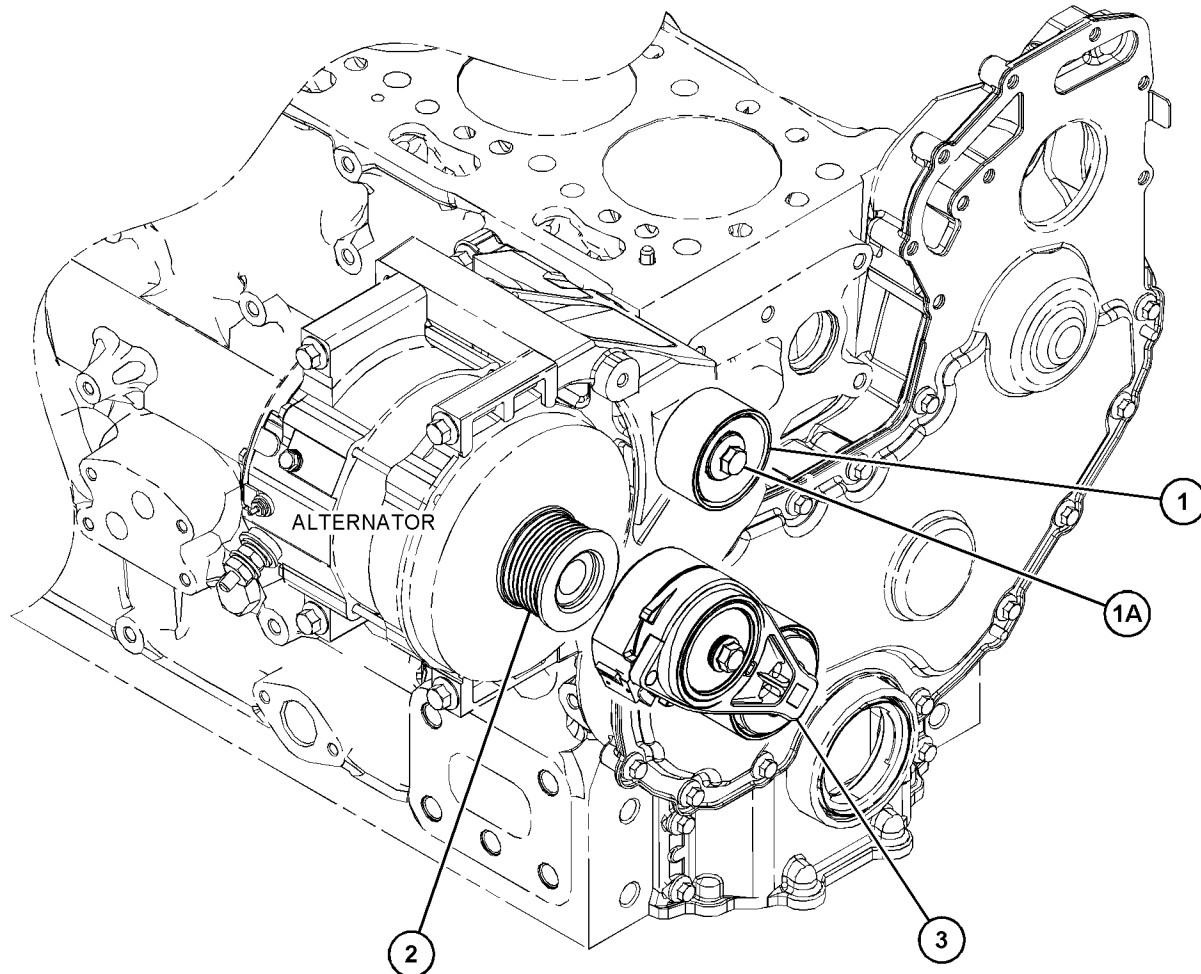
379-5585 BELT TENSIONER GP

SMCS-1358

i05718191

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	261-0428	1	PULLEY AS-IDLER						
M	1A	1	307-2242	1	BOLT (M10X1.5X45-MM)						
	2	1	337-6324	1	PULLEY						
	3	1	369-1255	1	TENSIONER						

M - METRIC PART



GRAPHIC #1

<END>

g03650318

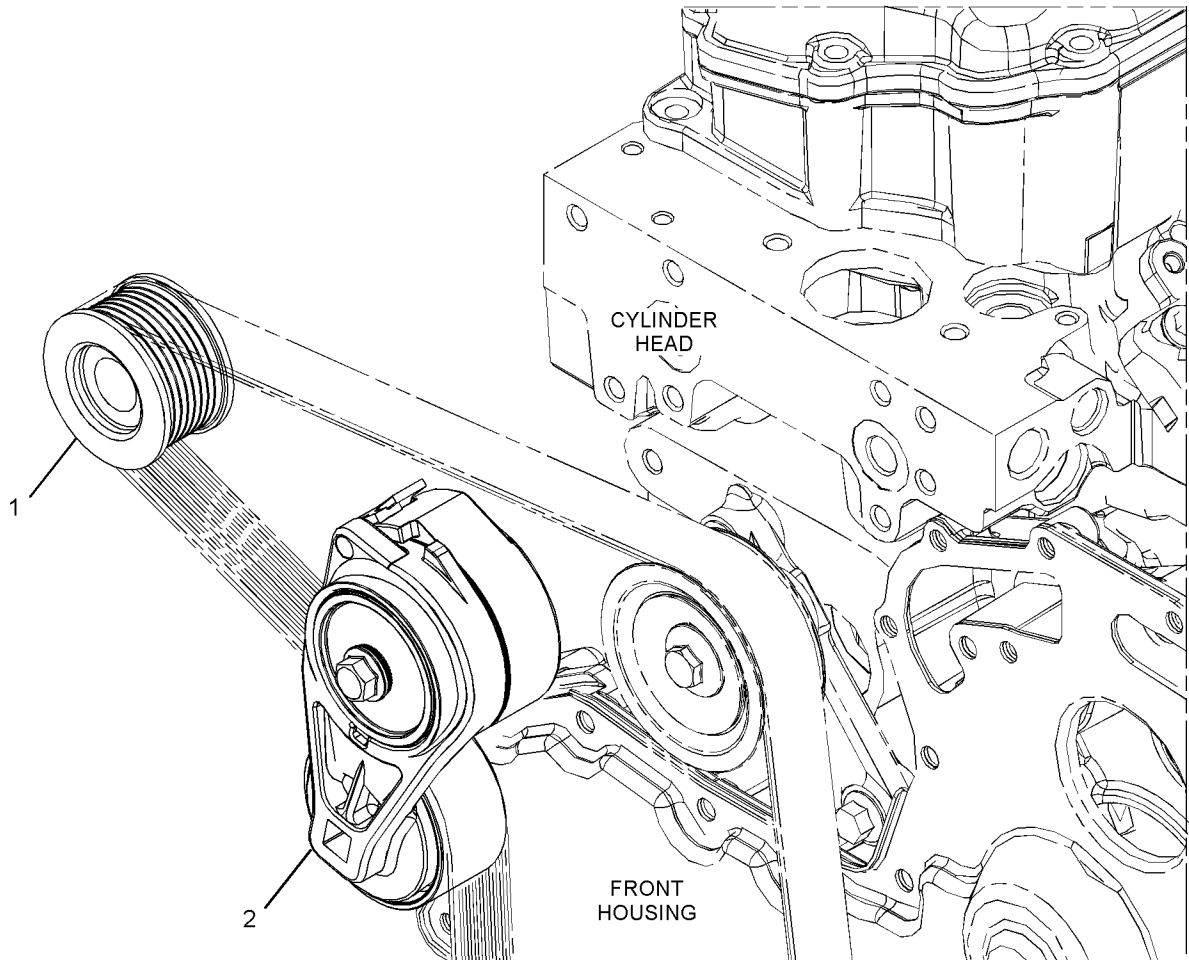
BASIC ENGINE

391-9610 BELT TENSIONER GP

SMCS-1358

i05934026

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	337-6324	1	PULLEY (8-GROOVE)						
	2	1	377-9082	1	BELT TENSIONER						



GRAPHIC #1

<END>

g03380685

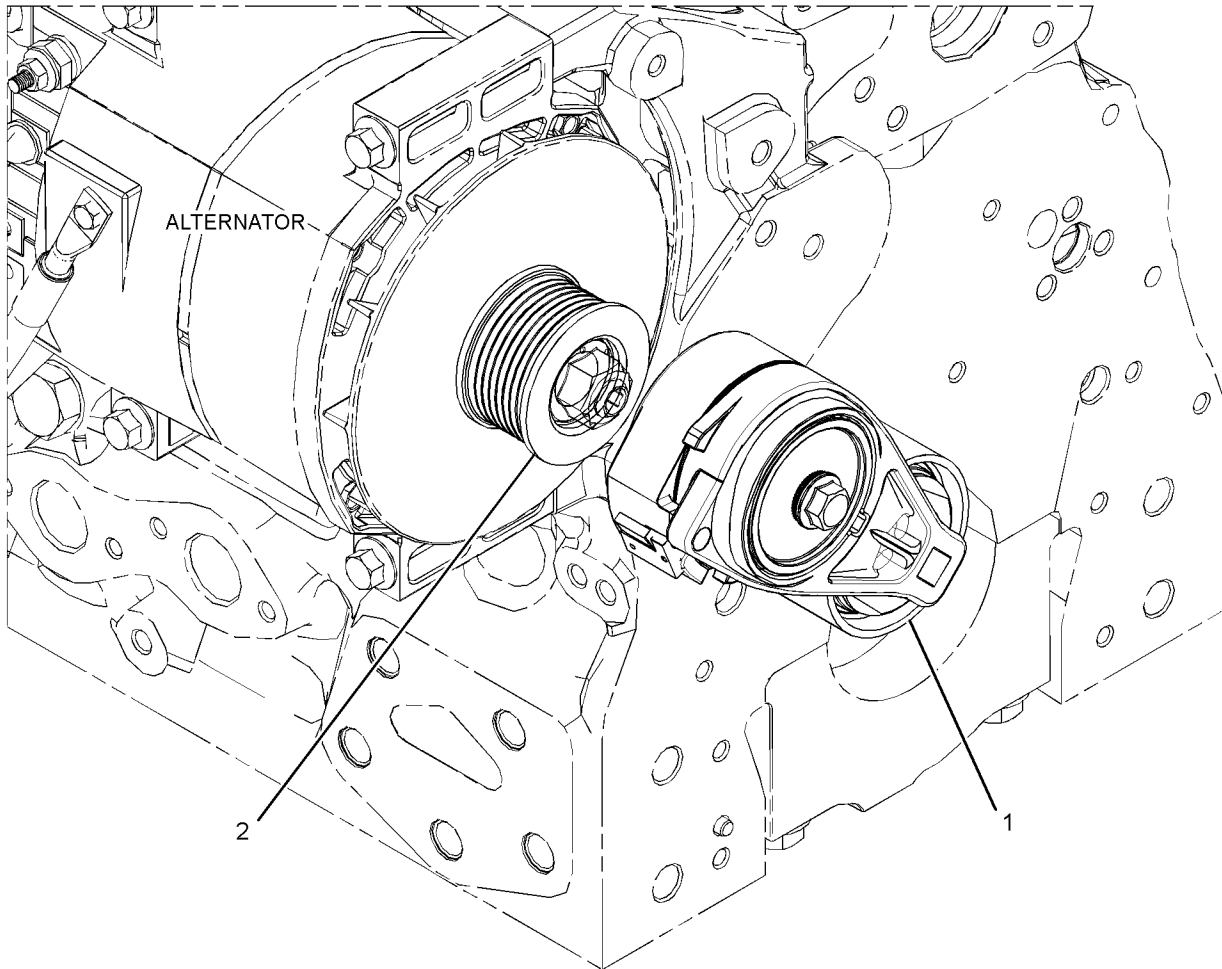
BASIC ENGINE

391-9611 BELT TENSIONER GP

SMCS-1358

i05711989

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	369-1255	1	TENSIONER						
	2	1	321-6131	1	PULLEY (8-GROOVE)						



GRAPHIC #1

<END>

g02406802

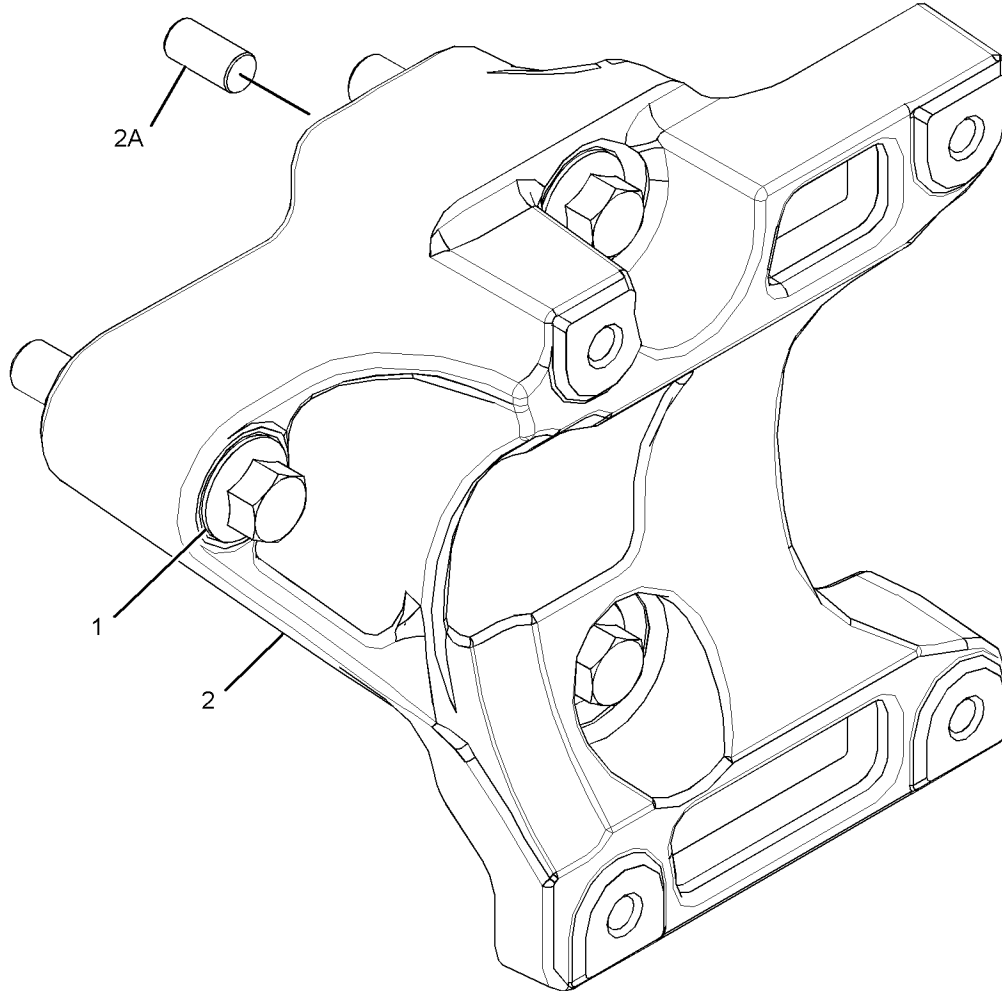
BASIC ENGINE

379-6637 BRACKET GP-MOUNTING

SMCS-1317

i05582481

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	101-7178	3	BOLT (M10X1.5X55-MM)						
	2	1	330-1725	1	BRACKET AS						
	2A	1	161-9820	2	PIN						



GRAPHIC #1

<END>

g02392976

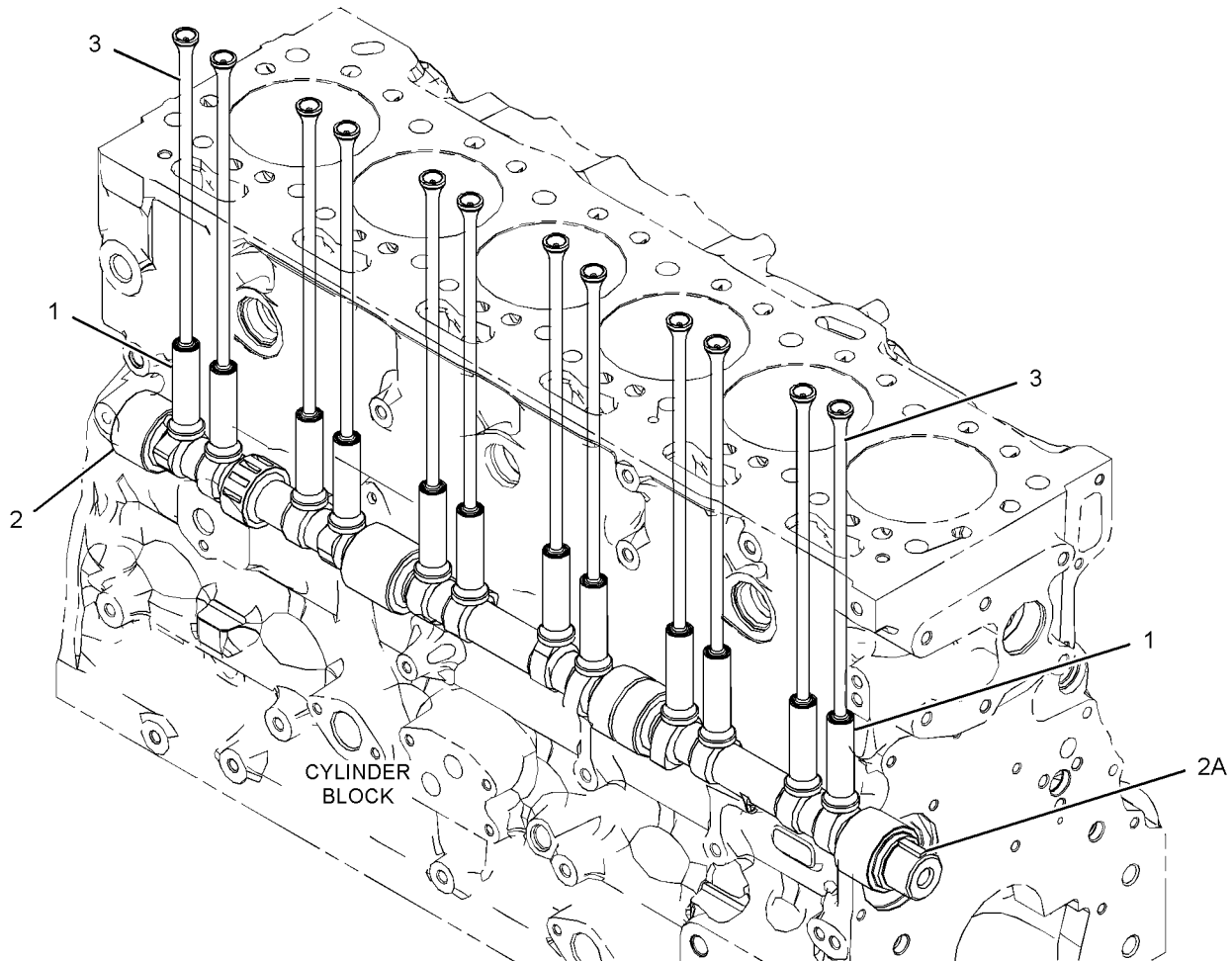
BASIC ENGINE

396-2615 CAMSHAFT GP

SMCS-1210

i05859642

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	278-5125	12	TAPPET						
	2	1	396-8795	1	CAMSHAFT GP						
	2A	1	067-6135	1	KEY-WOODRUFF						
	3	1	319-8426	12	PUSHROD						



GRAPHIC #1

<END>

g03380150

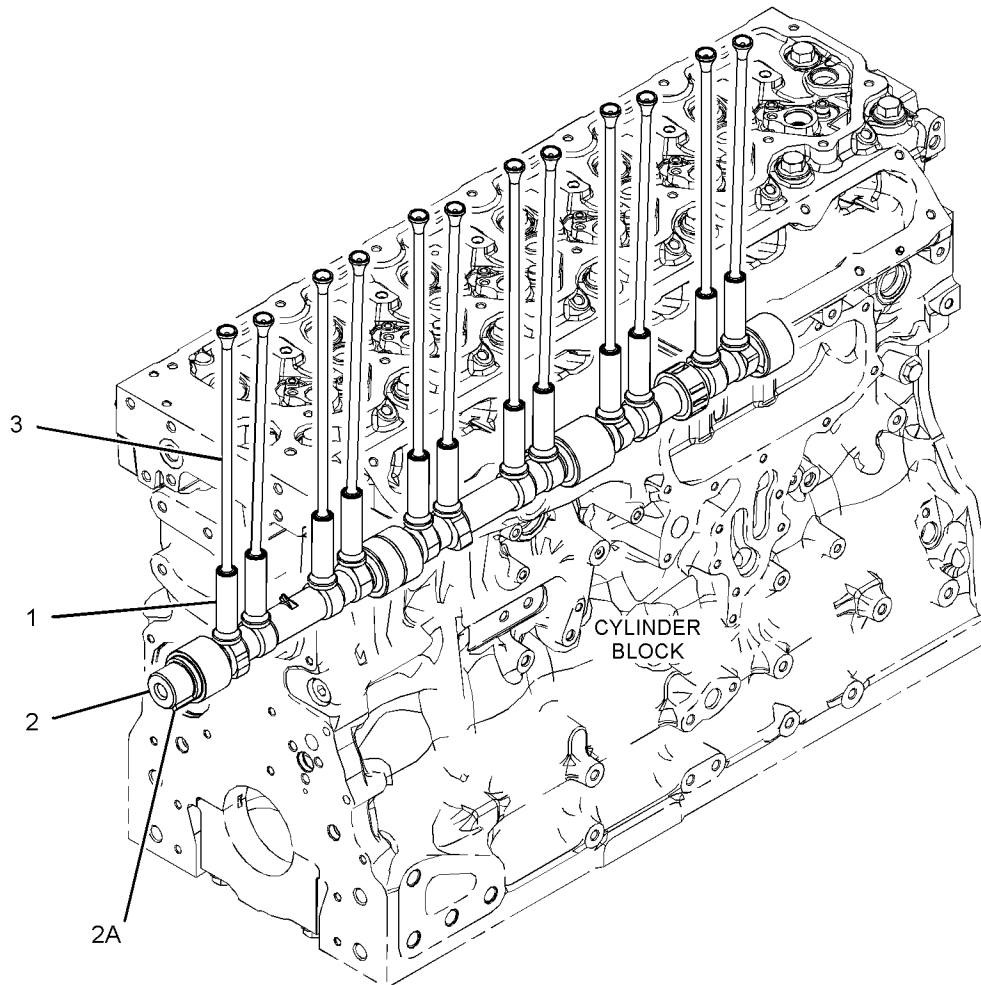
BASIC ENGINE

396-2617 CAMSHAFT GP

SMCS-1210

i05723840

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	278-5125	12	TAPPET						
	2	1	395-1802	1	CAMSHAFT GP						
	2A	1	067-6135	1	KEY-WOODRUFF						
	3	1	319-8426	12	PUSHROD						



GRAPHIC #1

<END>

g03533087

BASIC ENGINE

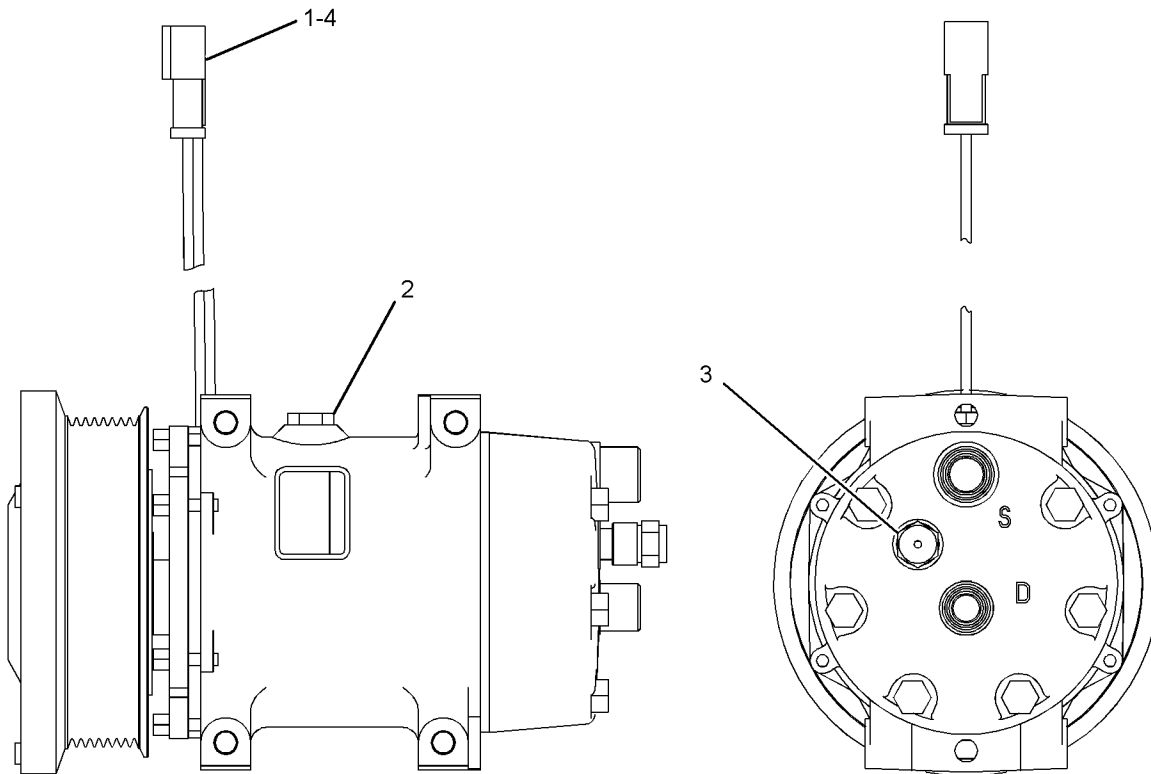
178-9570 COMPRESSOR GP-REFRIGERANT

PART OF 374-7090 MOUNTING GP-REFRIGERANT COMPR

SMCS-1802

i05727156

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	102-8802	1	KIT-RECEPTACLE (2-PIN)						
					(INCLUDES RECEPTACLE AS & WEDGE)						
	2	1	7T-4532	1	PLUG AS						
	3	1	314-4018	1	VALVE AS-PRESSURE RELIEF (REFRIGERANT COMPRESSOR)						
	4	1	180-9339	2	PIN-CONNECTOR (14-GA TO 18-GA)						



GRAPHIC #1

<END>

g02749997

BASIC ENGINE

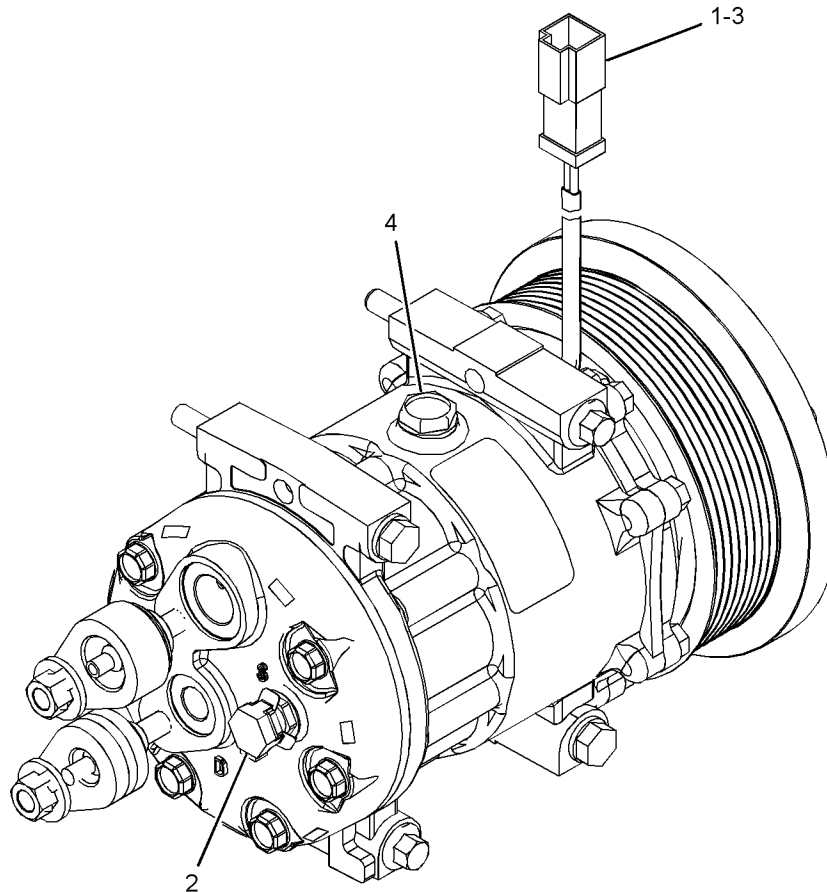
320-1291 COMPRESSOR GP-REFRIGERANT

PART OF 374-7094 AIR COMPRESSOR GP

SMCS-1802

i05826352

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	102-8802	1	KIT-RECEPTACLE (2-PIN) (INCLUDES RECEPTACLE AS & WEDGE)						
	2	1	314-4018	1	VALVE AS-PRESSURE RELIEF (REFRIGERANT COMPRESSOR)						
	3	1	126-1767	2	PIN-CONNECTOR (14-GA TO 16-GA)						
	4	1	7T-4532	1	PLUG AS						



GRAPHIC #1

<END>

g02214255

BASIC ENGINE

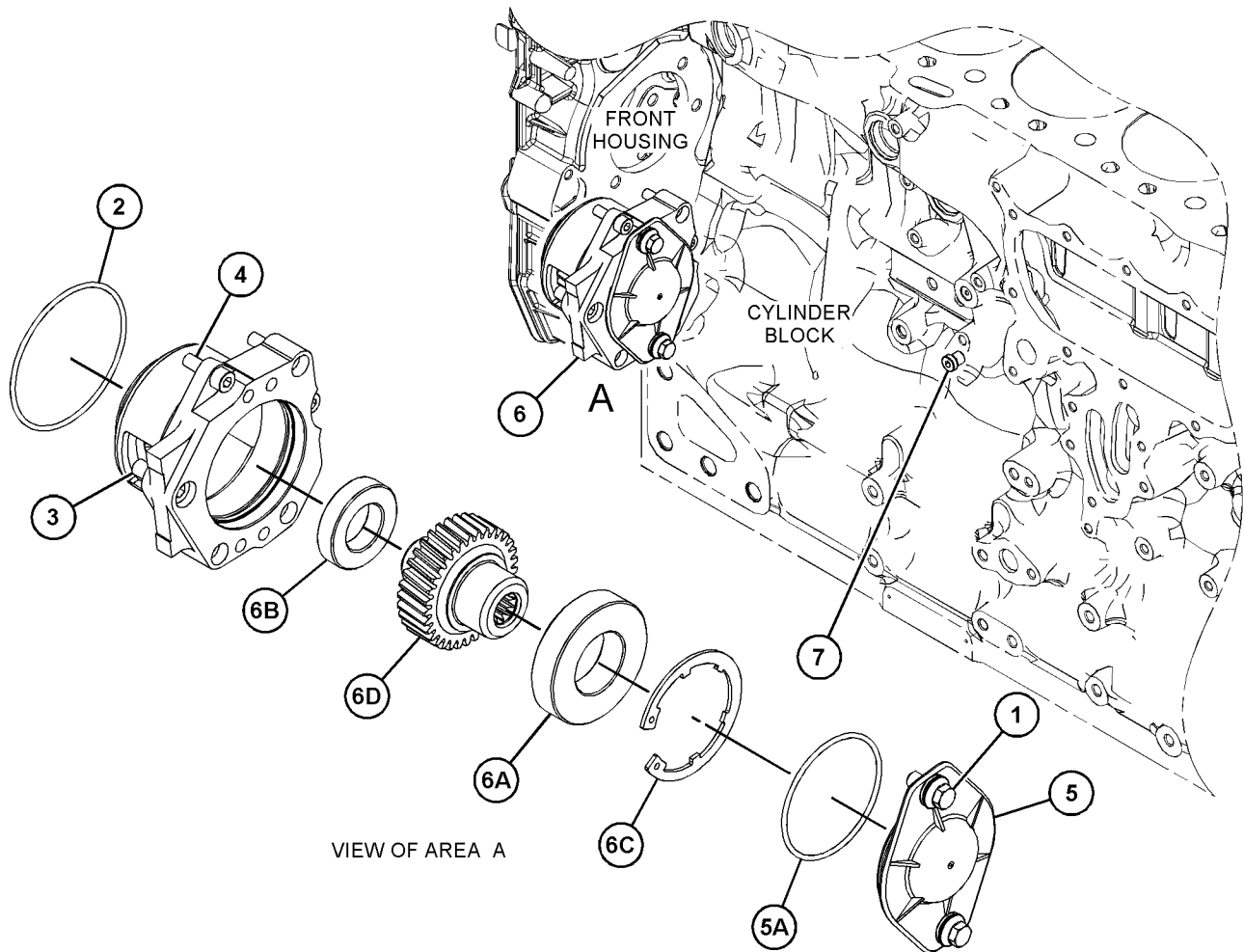
378-0629 COVER GP-ACCESSORY DRIVE SAEA AAT SPLINE

SMCS-1207

i05733303

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
M	1	1	100-4830	2	BOLT (M10X1.5X20-MM)	
	2	1	102-2073	1	SEAL-O-RING	
M	3	1	102-2078	1	BOLT (M10X1.5X25-MM)	
	4	1	126-3212	5	BOLT (M8X1.25X25-MM)	
	5	1	198-8262	1	COVER AS	
	5A	1	198-8263	1	SEAL-O-RING	
	6	1	222-8625	1	ADAPTER AS	
	6A	1	6H-3957	1	BALL BEARING	
	6B	1	102-2075	1	BEARING	
	6C	1	102-2076	1	CLIP	
	6D	1	217-7877	1	GEAR (33-TEETH)	
	7	1	277-4223	1	PLUG	

M - METRIC PART



GRAPHIC #1

<END>

g03658957

BASIC ENGINE

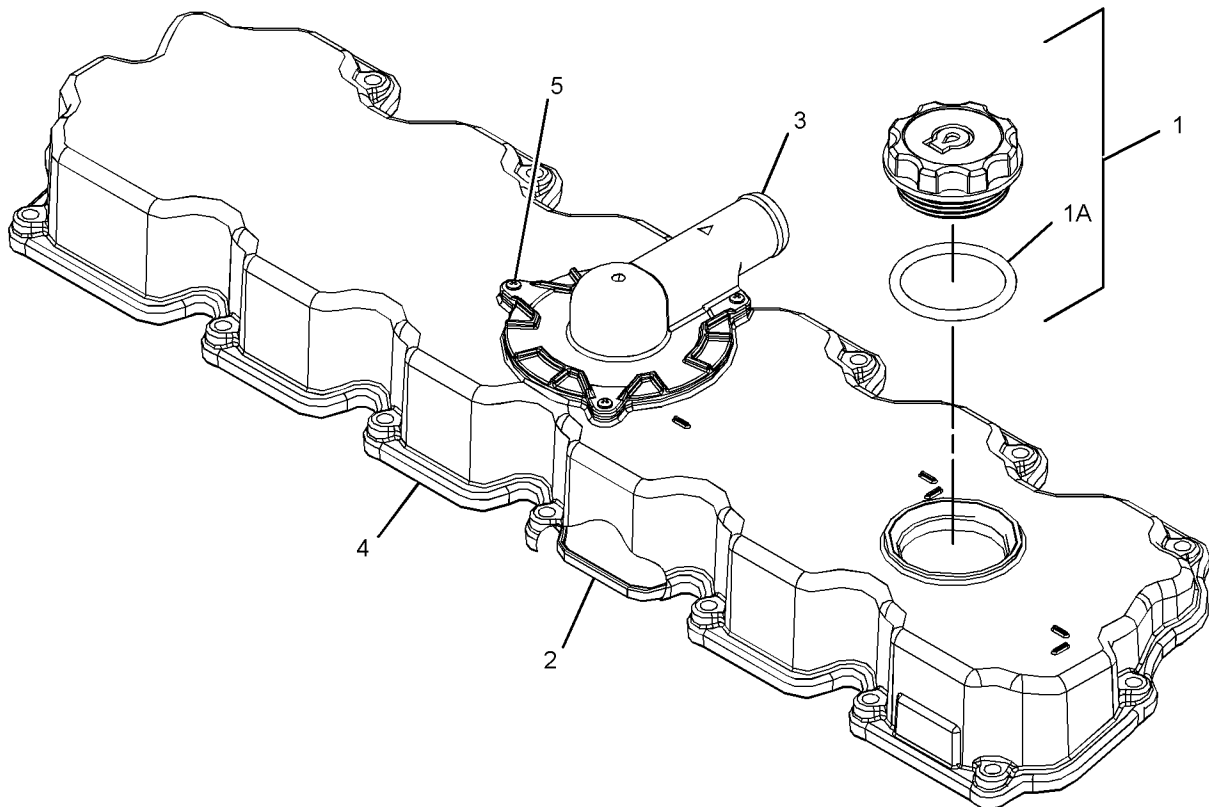
383-1386 COVER GP-VALVE MECHANISM

PART OF 389-3348 COVER GP-VALVE MECHANISM

SMCS-1107

i05717992

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	359-1310	1	CAP AS-FILLER (ENGINE OIL)						
	1A	1	124-0506	1	SEAL (VALVE COVER)						
	2	1	376-4761	1	SEAL						
	3	1	380-9615	1	CAP-BREATHER (VALVE MECHANISM)						
	4	1	383-1387	1	COVER-VALVE MECHANISM						
	5	1	195-9245	3	SCREW (M4X0.7X10-MM)						



GRAPHIC #1

<END>

g03481796

BASIC ENGINE

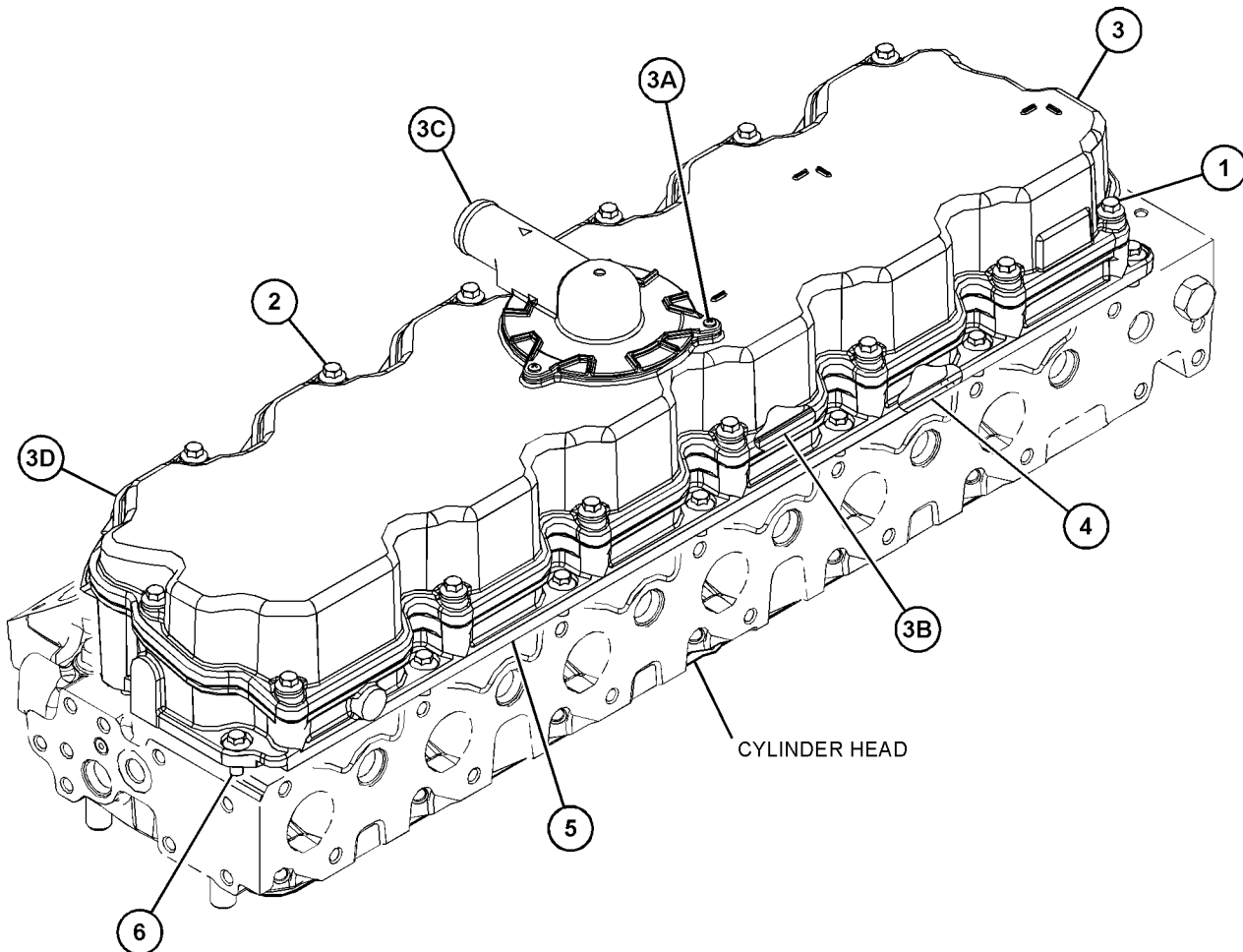
389-3346 COVER GP-VALVE MECHANISM

SMCS-1107

i05954915

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	101-3895	9	BOLT (M8X1.25X35-MM)						
	2	1	103-5705	6	BOLT (M8X1.25X110-MM)						
	3	1	383-1382	1	COVER GP-VALVE MECHANISM						
	3A	1	195-9245	3	SCREW (M4X0.7X10-MM)						
	3B	1	376-4761	1	SEAL						
	3C	1	380-9615	1	CAP-BREATHER (VALVE MECHANISM)						
	3D	1	383-1383	1	COVER-VALVE MECHANISM						
	4	1	388-0536	1	GASKET						
	5	1	461-3440	1	COVER-BASE						
M	6	1	6I-0217	14	BOLT (M8X1.25X20-MM)						

M - METRIC PART



GRAPHIC #1

<END>

g03741084

BASIC ENGINE

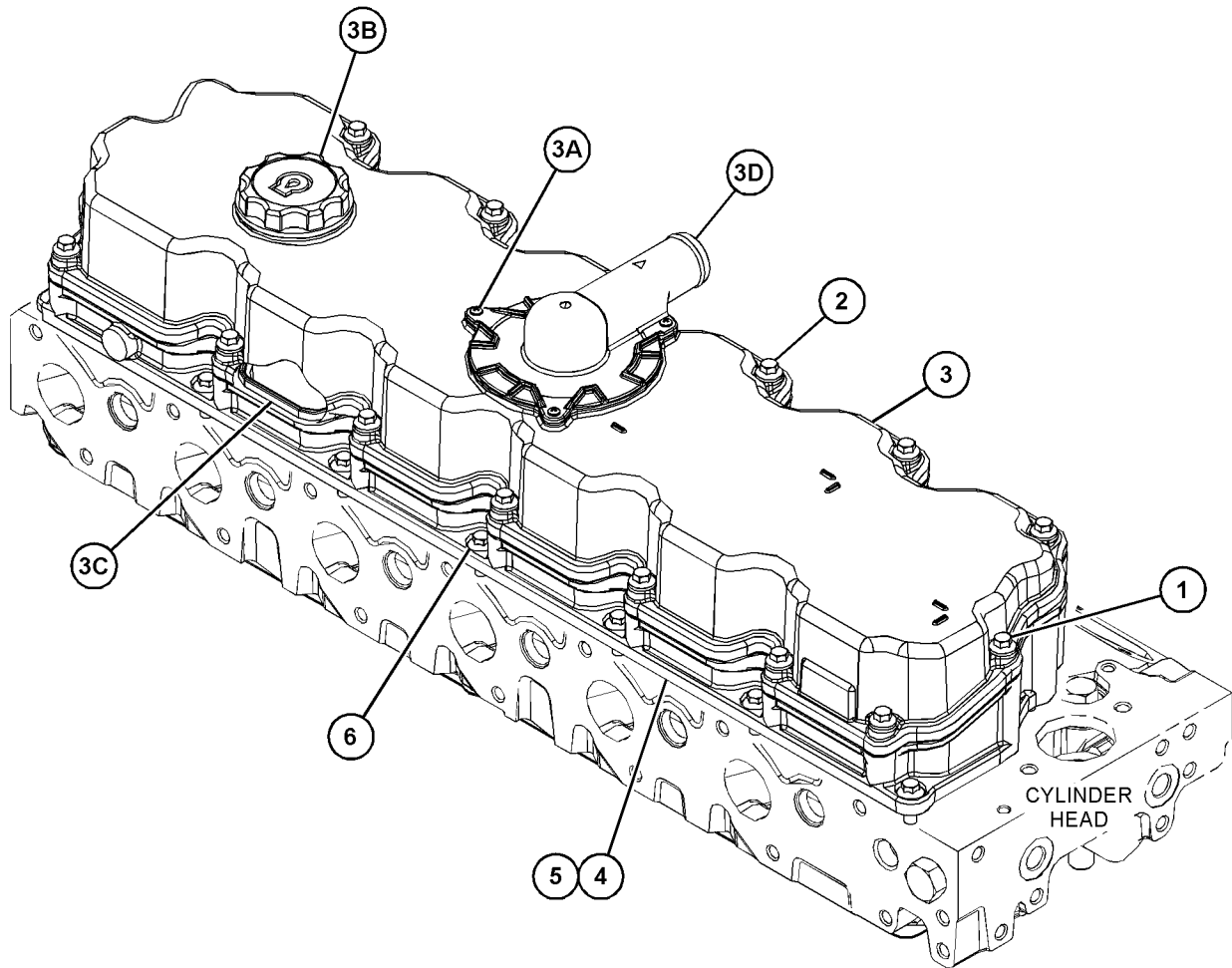
389-3347 COVER GP-VALVE MECHANISM

SMCS-1107

i05954919

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	101-3895	9	BOLT (M8X1.25X35-MM)						
	2	1	103-5705	6	BOLT (M8X1.25X110-MM)						
	3	1	383-1384	1	COVER GP-VALVE MECHANISM						
	3A	1	195-9245	3	SCREW (M4X0.7X10-MM)						
	3B	1	369-3869	1	CAP AS (FILLER)						
		1	357-0147	1	FILM-IDENTIFICATION (OIL FILL, READ OMM)						
	3C	1	376-4761	1	SEAL						
	3D	1	380-9615	1	CAP-BREATHER (VALVE MECHANISM)						
	4	1	461-3440	1	COVER-BASE						
	5	1	388-0536	1	GASKET						
M	6	1	6I-0217	14	BOLT (M8X1.25X20-MM)						

M - METRIC PART



GRAPHIC #1

<END>

g03647124

BASIC ENGINE

389-3348 COVER GP-VALVE MECHANISM

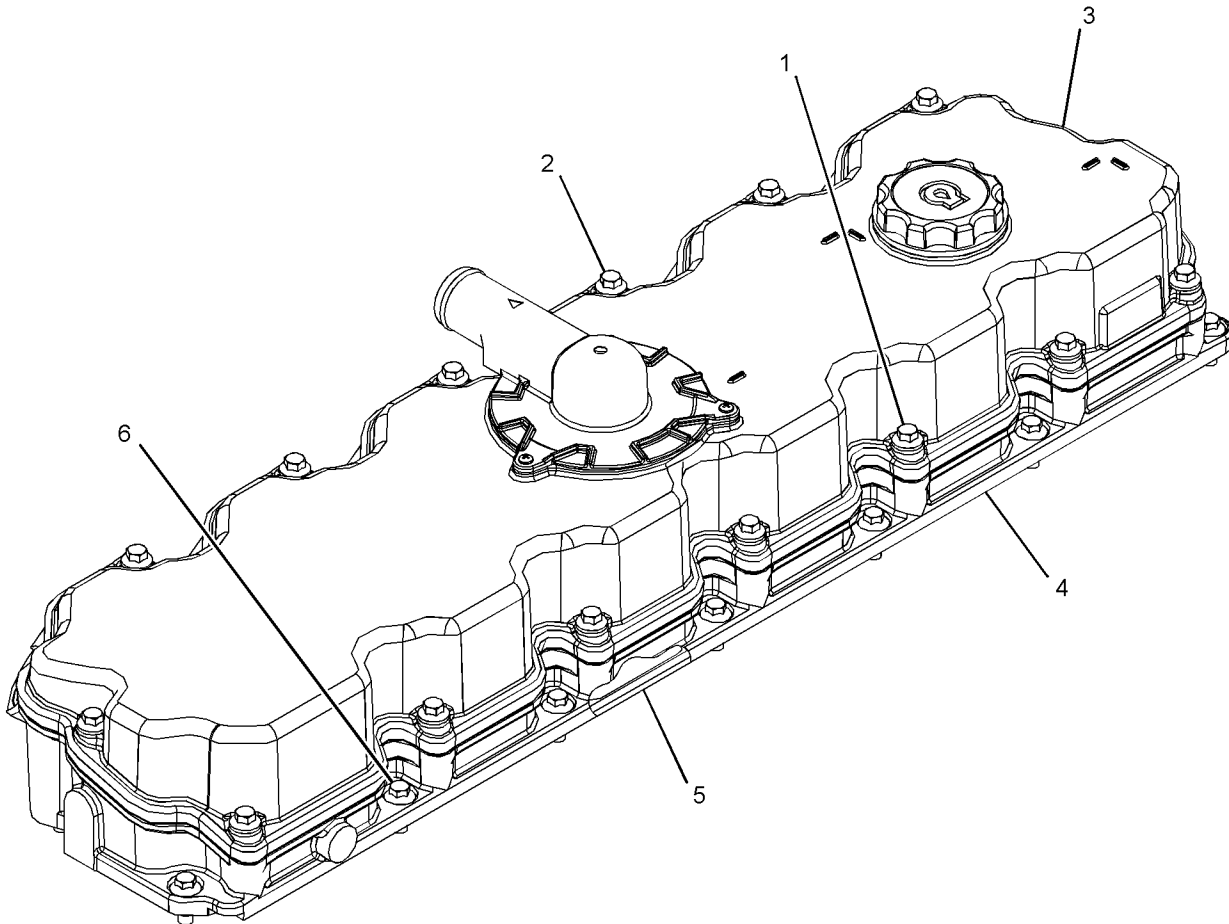
SMCS-1107

i05933175

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	101-3895	9	BOLT (M8X1.25X35-MM)						
	2	1	103-5705	6	BOLT (M8X1.25X110-MM)						
Y	3	1	383-1386	1	COVER GP-VALVE MECHANISM						47
	4	1	461-3440	1	COVER-BASE						
	5	1	388-0536	1	GASKET						
M	6	1	6I-0217	14	BOLT (M8X1.25X20-MM)						

M - METRIC PART

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03481658

BASIC ENGINE

371-2477 CRANKSHAFT GP

SMCS-1202

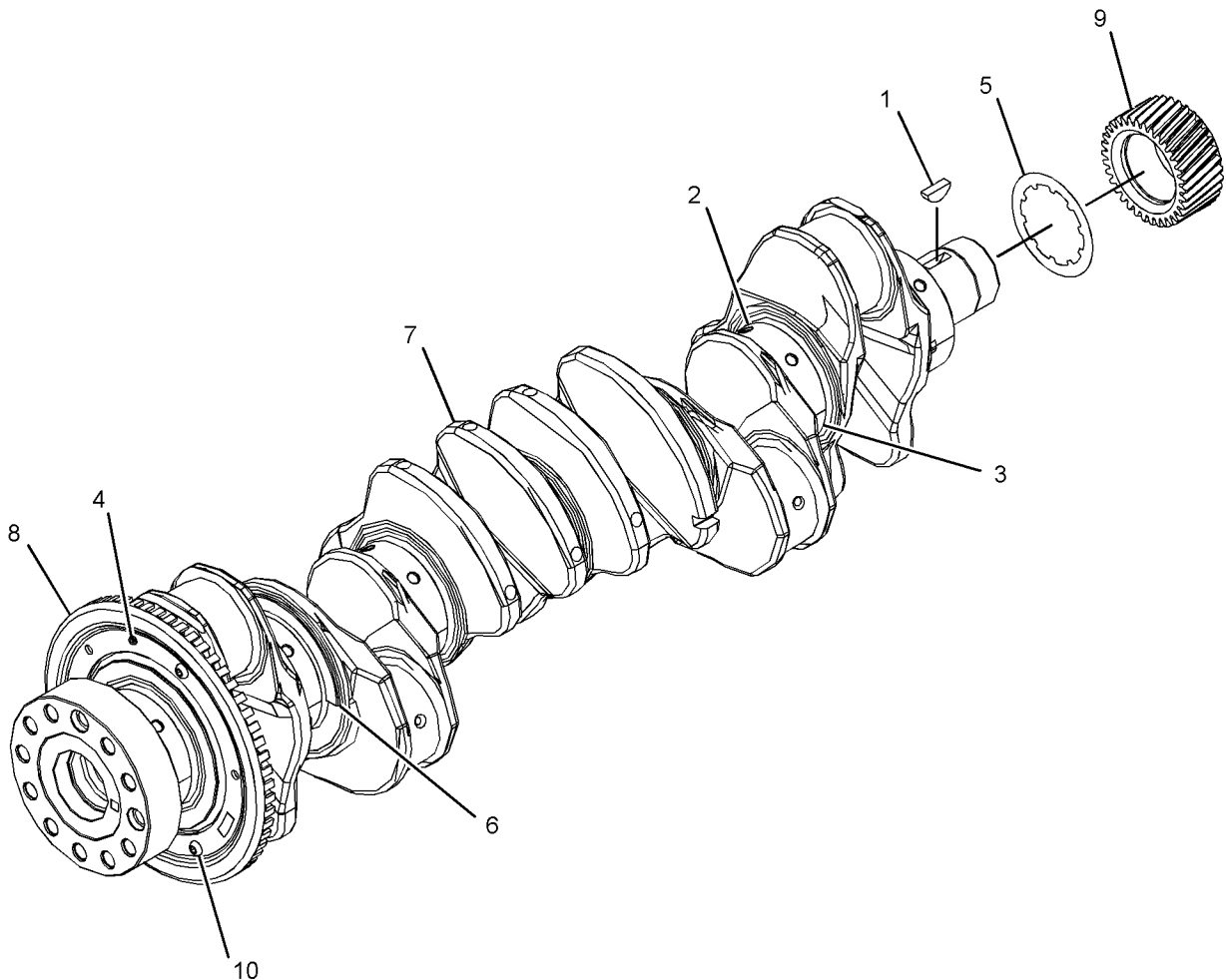
i05584329

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	067-6135	1	KEY-WOODRUFF						
L	2	1	317-5485	7	BEARING						
L	3	1	317-5486	7	BEARING						
	4	1	339-8780	1	DOWEL						
	5	1	342-6508	1	SHIM (0.1-MM THK)						
J	6	1	363-0559	2	WASHER-THRUST						
	7	1	376-4074	1	CRANKSHAFT						
	8	1	376-4078	1	DISC-TIMING						
	9	1	276-7391	1	GEAR (34-TEETH)						
	10	1	276-7394	3	BOLT						

AVAILABLE REPAIR KIT(S):

L	360-1978	1	KIT-BEARING (CRANKSHAFT)
J	364-5145	1	KIT-WASHER (CRANKSHAFT)

J - KIT MARKED J SERVICES PART MARKED J
L - KIT MARKED L SERVICES PART MARKED L



GRAPHIC #1

<END>

g03482898

BASIC ENGINE

374-6300 CRANKSHAFT GP PART OF 451-1222 CYLINDER BLOCK GP-SHORT

SMCS-1202

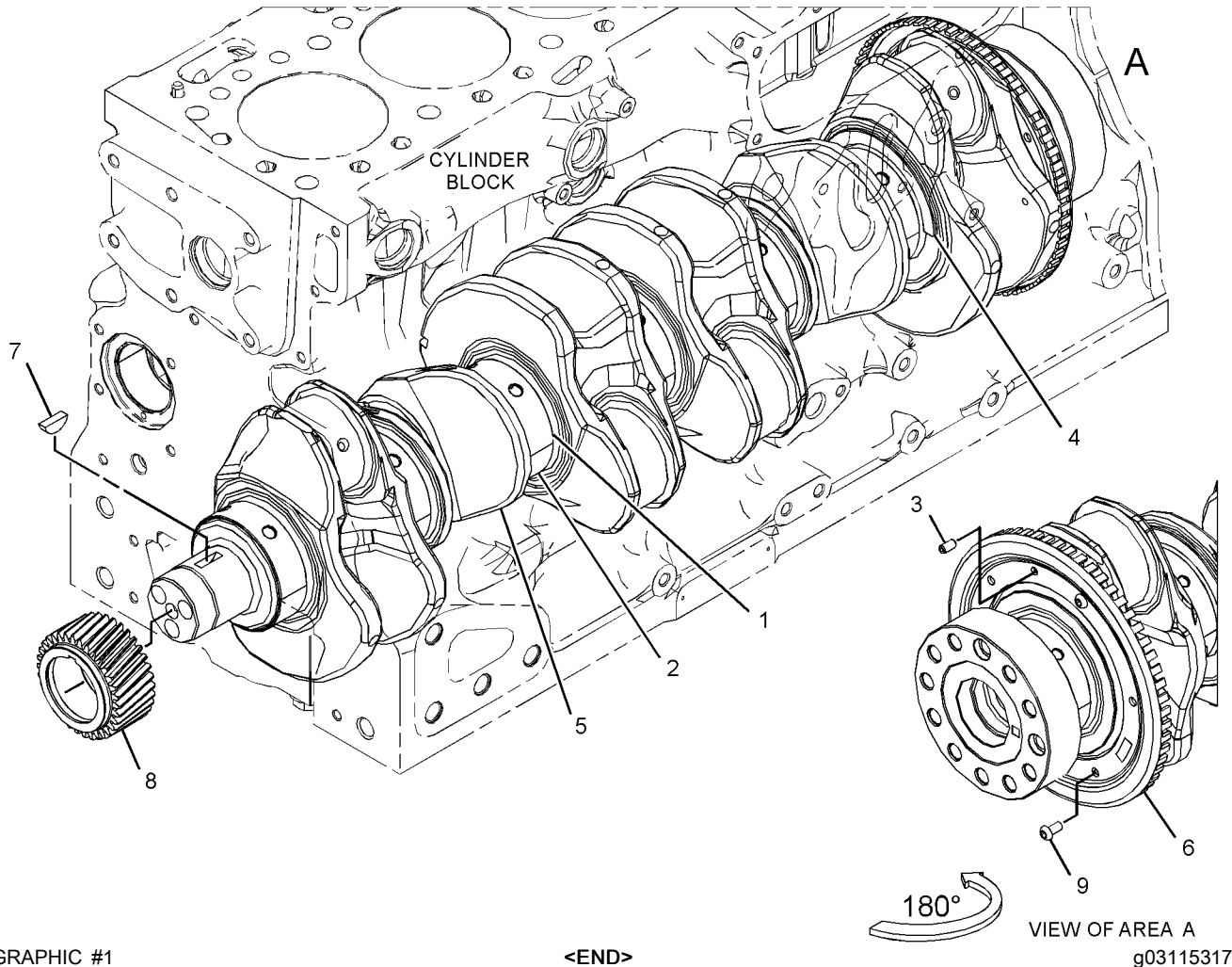
i05723796

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
P	1	1	317-5485	7	BEARING						
P	2	1	317-5486	7	BEARING						
	3	1	339-8780	1	DOWEL						
J	4	1	363-0559	2	WASHER-THRUST						
	5	1	376-4074	1	CRANKSHAFT						
	6	1	376-4078	1	DISC-TIMING						
	7	1	067-6135	1	KEY-WOODRUFF						
	8	1	276-7391	1	GEAR (34-TEETH)						
	9	1	276-7394	3	SCREW (M6X1XX12-MM)						

AVAILABLE REPAIR KIT(S) :

P			360-1978	1	KIT-BEARING (INCLUDES BEARINGS)					
J			364-5145	1	KIT-WASHER (STANDARD) (INCLUDES WASHERS)					

J - KIT MARKED J SERVICES PART MARKED J
P - KIT MARKED P SERVICES PARTS MARKED P



BASIC ENGINE

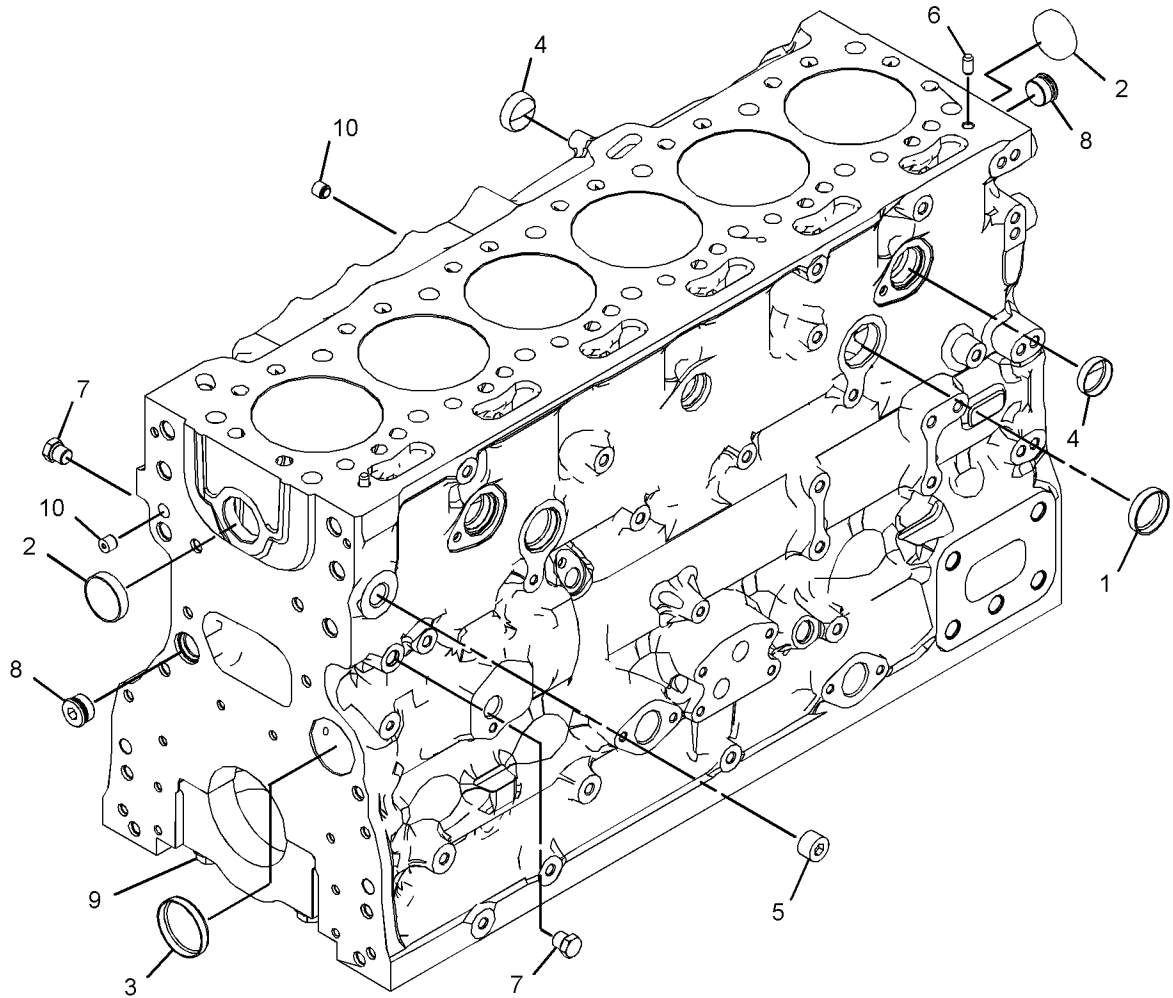
383-3581 CYLINDER BLOCK AS

PART OF 390-0854 CYLINDER BLOCK GP

SMCS-1201

i05580670

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	232-7597	4	PLUG						
	2	1	276-5602	2	PLUG-CORE						
	3	1	232-7596	1	PLUG						
	4	1	067-6043	7	PLUG-SIDE						
	5	1	067-6823	1	PLUG						
	6	1	185-0884	2	DOWEL						
	7	1	225-8858	2	PLUG						
	8	1	232-7599	2	PLUG						
	9	1	276-5600	14	BOLT-SPECIAL (BEARING CAP)						
	10	1	331-6835	2	PLUG-SEALING						



GRAPHIC #1

<END>

g03351937

BASIC ENGINE

390-0854 CYLINDER BLOCK GP

PART OF 451-1222 CYLINDER BLOCK GP-SHORT

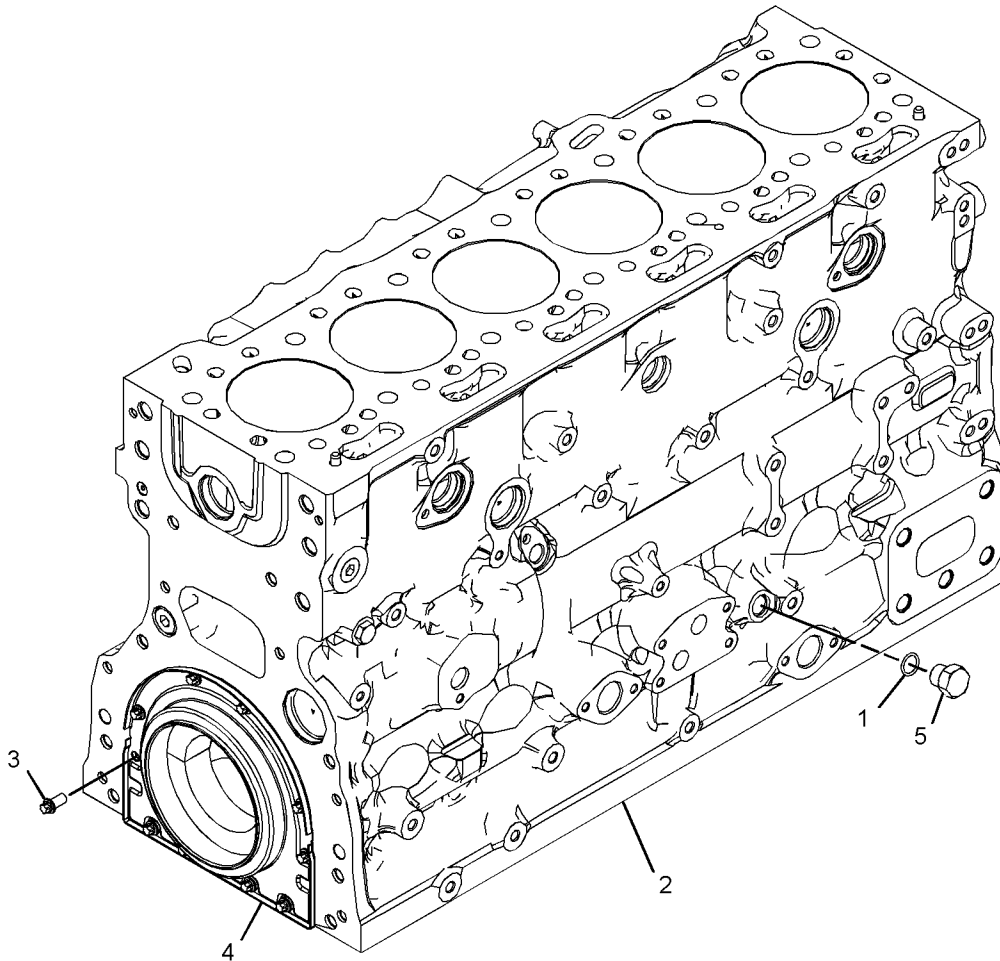
SMCS-1201

i05723795

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	276-5603	1	SEAL-O-RING						
Y	2	1	383-3581	1	CYLINDER BLOCK AS						53
M	3	1	209-9219	10	BOLT (M8X1.25X16-MM)						
	4	1	232-7449	1	HOUSING AS						
	5	1	232-1322	1	PLUG						

M - METRIC PART

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03384924

BASIC ENGINE

451-1222 CYLINDER BLOCK GP-SHORT

FIELD REPLACEMENT FOR 440-8198-PAGE: 3: FOR 461-4657-PAGE: 27: FOR 445-8905-PAGE: 7:
 FOR 461-4661-PAGE: 28: FOR 461-4645-PAGE: 22: FOR 461-4653-PAGE: 26: FOR 455-9383-
 PAGE: 18: FOR 453-7804-PAGE: 16: FOR 461-5454-PAGE: 31: FOR 446-1005-PAGE: 9: FOR
 449-0783-PAGE: 11: FOR 449-5818-PAGE: 13: FOR 450-7535-PAGE: 14: FOR 445-2586-PAGE: 5
 PART OF 451-8385 CYLINDER BLOCK GP-SHORT

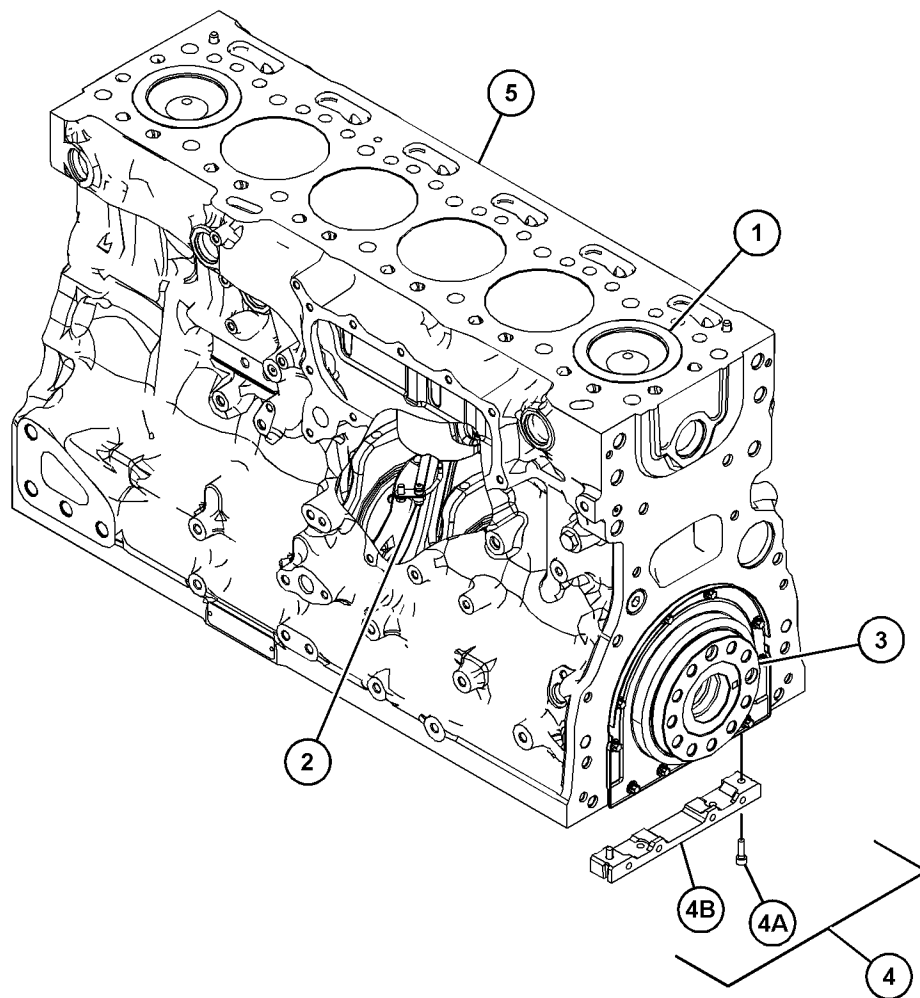
SMCS-1200

i05936111

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	369-7304	1	PISTON & ROD GP						115
Y	2	1	371-2478	1	JET GP-PISTON COOLING						102
Y	3	1	374-6300	1	CRANKSHAFT GP						52
	4	1	451-8317	1	PAN GP-OIL						
M	4A	1	8T-0269	2	BOLT-SOCKET HEAD (M6X1X20-MM)						
	4B	1	230-8094	1	BRIDGE						
Y	5	1	390-0854	1	CYLINDER BLOCK GP						54

M - METRIC PART

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03733390

BASIC ENGINE

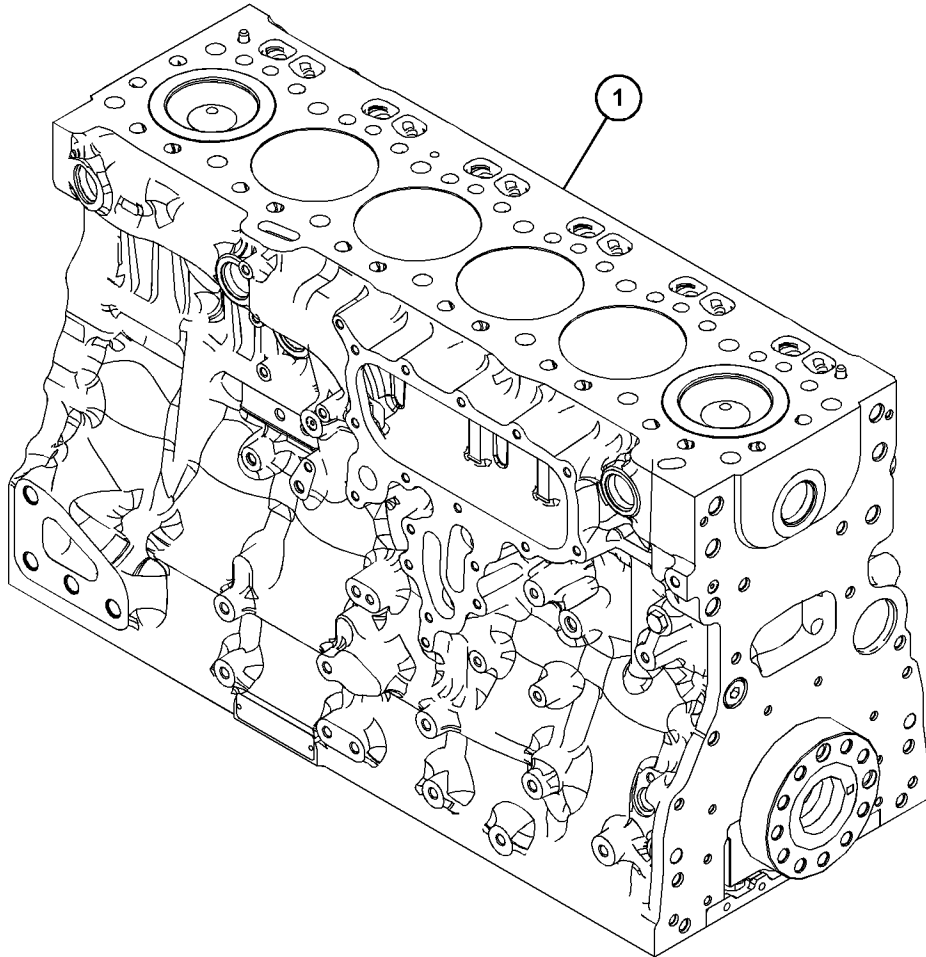
451-8385 CYLINDER BLOCK GP-SHORT

PART OF 455-4836, 455-9421, 462-8110, 464-9337 ENGINE AR-COMPLETE, 462-9442 GENERAL
AR

SMCS-1200

i05846147

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	451-1222	1	CYLINDER	BLOCK	GP-SHORT				55
Y - SEPARATE ILLUSTRATION											



GRAPHIC #1

<END>

g03697536

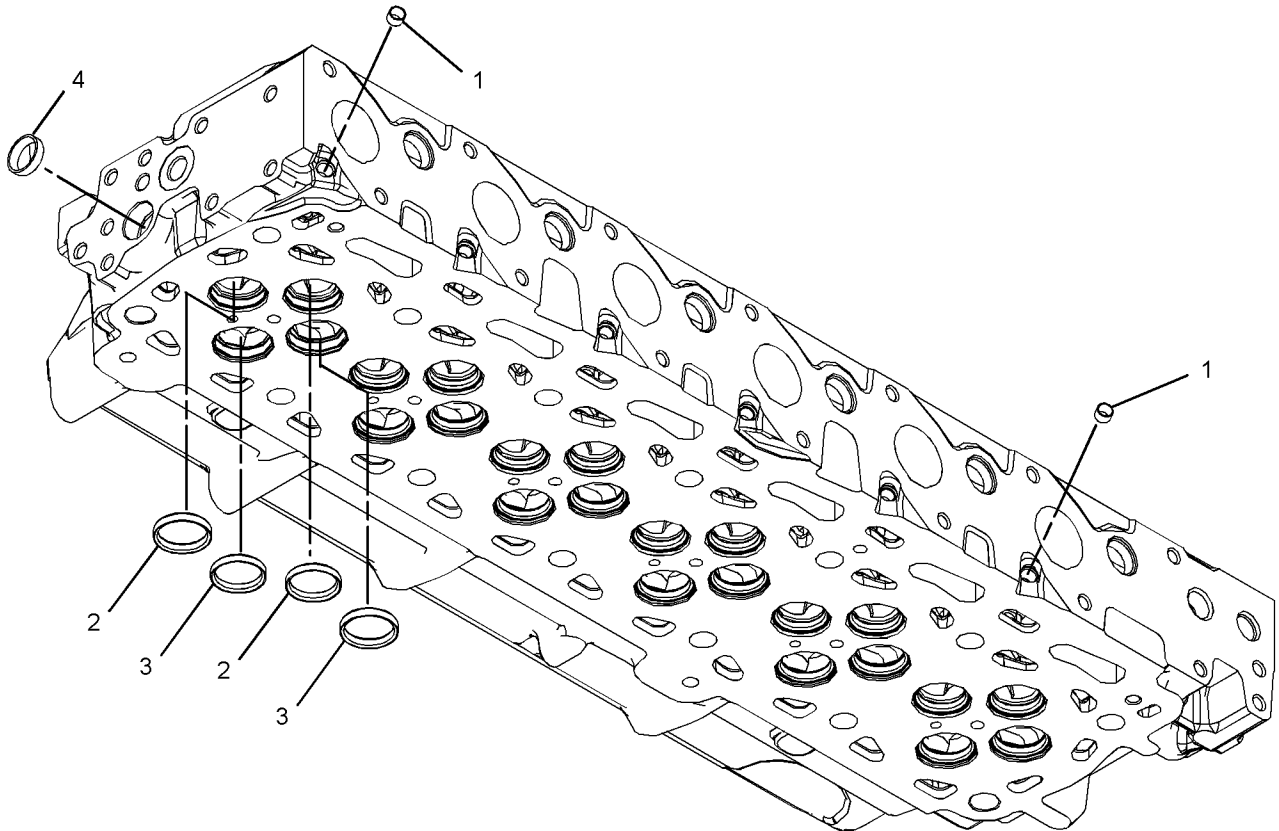
BASIC ENGINE

384-5313 CYLINDER HEAD AS PART OF 385-2572, 452-6586 CYLINDER HEAD GP

SMCS-1100, 1101

i05580673

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	276-8116	6	PLUG-CORE						
	2	1	377-0400	12	INSERT-VALVE SEAT (EXHAUST)						
	3	1	377-0399	12	INSERT-VALVE SEAT (INTAKE)						
	4	1	276-8117	13	PLUG-CORE						



GRAPHIC #1

<END>

g03379426

BASIC ENGINE

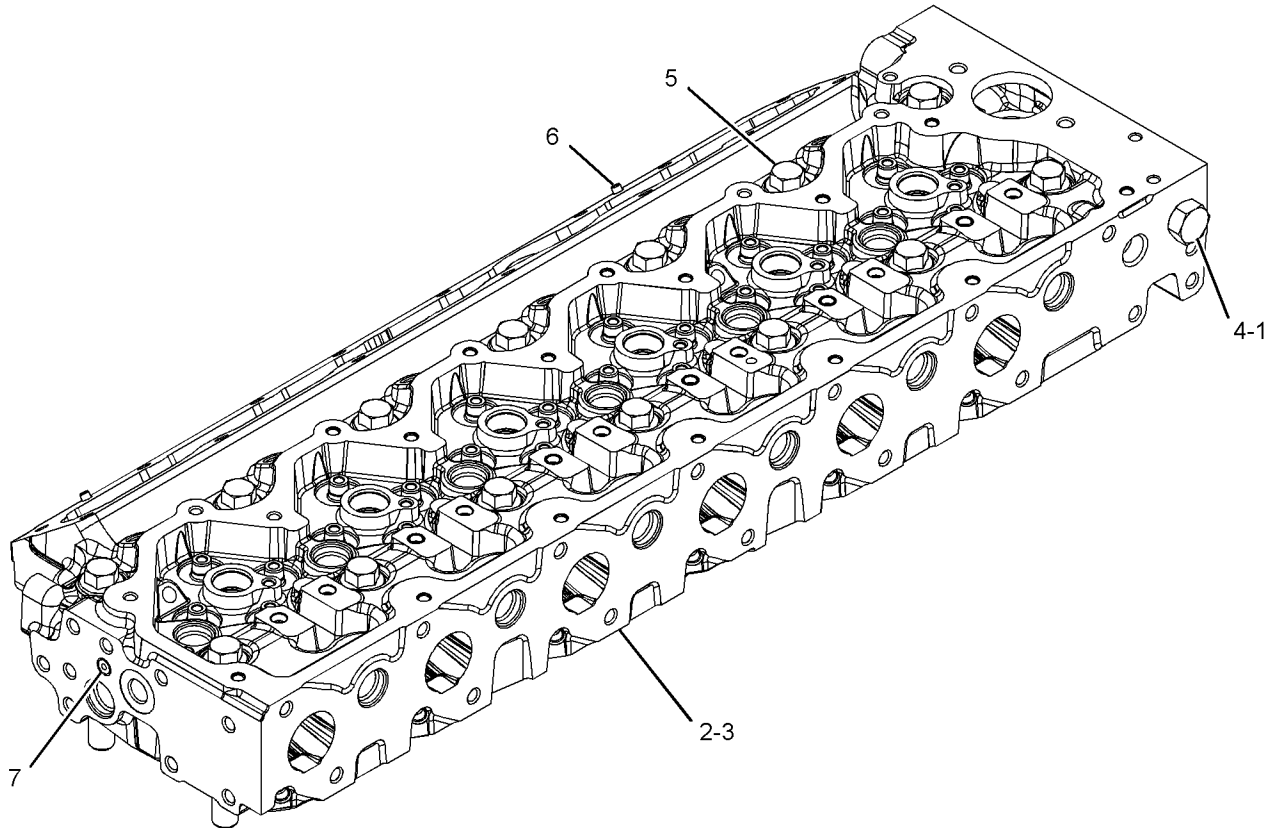
385-2572 CYLINDER HEAD GP

SMCS-1100

i05723837

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	199-9751	1	SEAL-O-RING						
Y	2	1	384-5313	1	CYLINDER HEAD AS						57
	3	1	388-4707	1	GASKET-CYLINDER HEAD						
	4	1	232-1322	1	PLUG						
	5	1	276-8134	14	BOLT-SPECIAL (CYLINDER HEAD)						
	6	1	277-4302	2	DOWEL						
	7	1	295-6661	1	PLUG						

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03379427

BASIC ENGINE

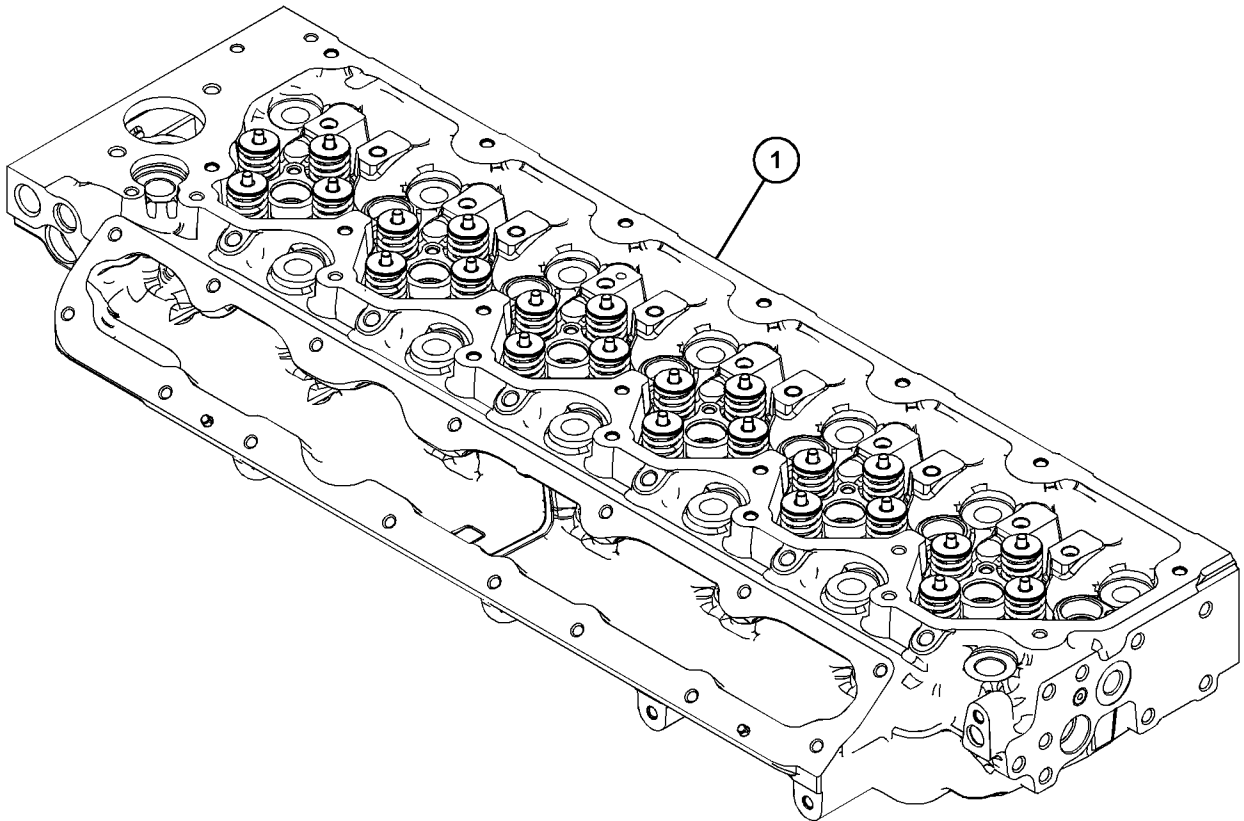
452-6582 CYLINDER HEAD GP

PART OF 455-4836, 455-9421, 462-8110, 464-9337 ENGINE AR-COMplete, 462-9442 GENERAL AR

SMCS-1100

i05846149

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	452-6584	1	CYLINDER HEAD GP (SHORT)						60
Y - SEPARATE ILLUSTRATION											



GRAPHIC #1

<END>

g03697902

BASIC ENGINE

452-6584 CYLINDER HEAD GP

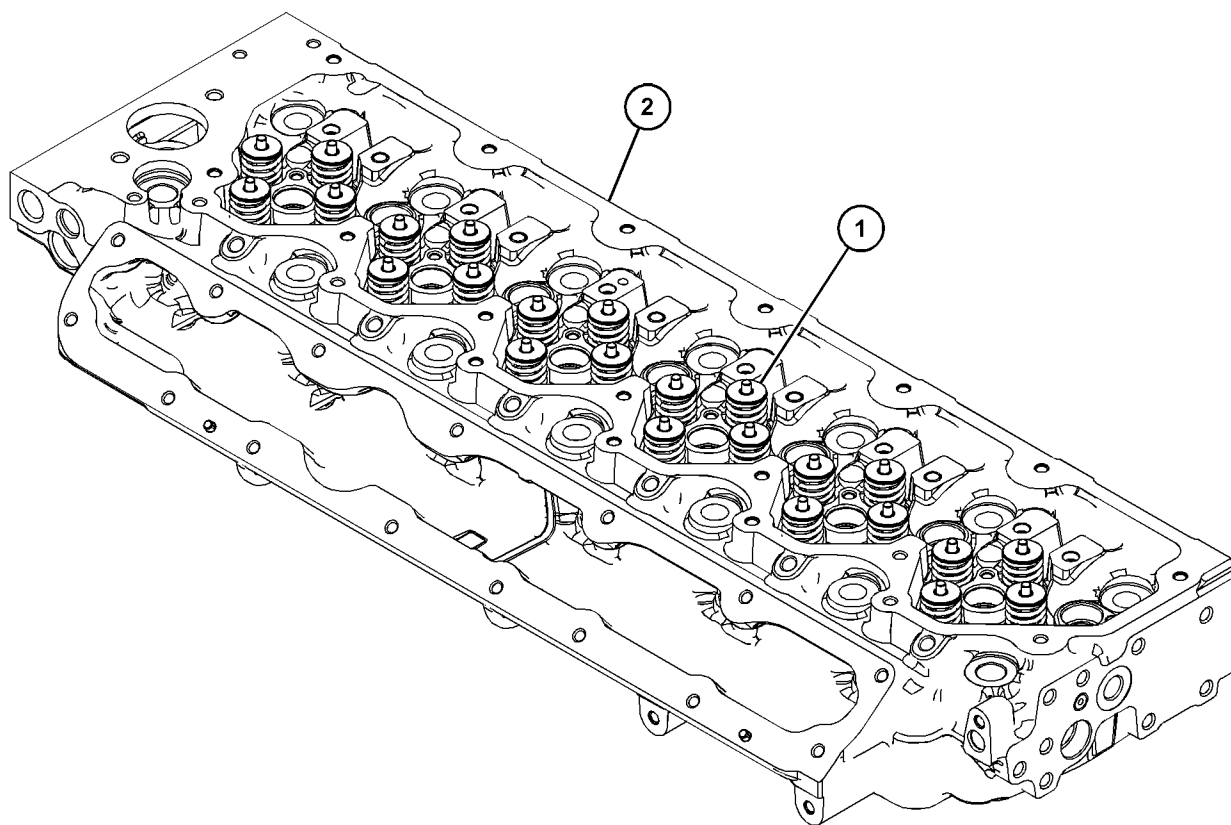
FIELD REPLACEMENT FOR 440-8198-PAGE: 3: FOR 461-4657-PAGE: 27: FOR 445-8905-PAGE: 7:
FOR 461-4661-PAGE: 28: FOR 461-4645-PAGE: 22: FOR 461-4653-PAGE: 26: FOR 455-9383-
PAGE: 18: FOR 453-7804-PAGE: 16: FOR 461-5454-PAGE: 31: FOR 446-1005-PAGE: 9: FOR
449-0783-PAGE: 11: FOR 449-5818-PAGE: 13: FOR 450-7535-PAGE: 14: FOR 445-2586-PAGE: 5
PART OF 452-6582 CYLINDER HEAD GP

SMCS-1100

i05785722

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	452-6585	1	ROCKER ARM GP	129
Y	2	1	452-6586	1	CYLINDER HEAD GP	61

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03674499

BASIC ENGINE

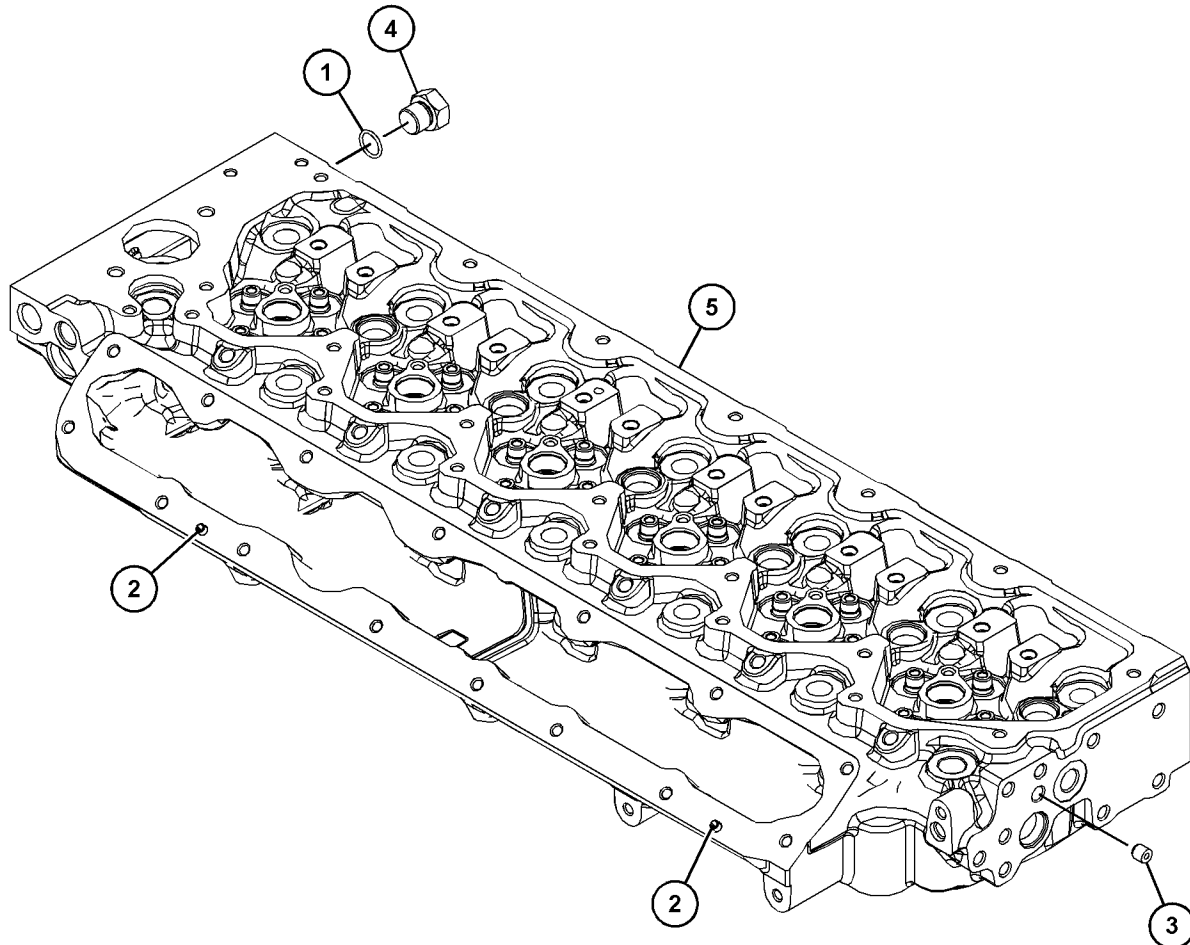
452-6586 CYLINDER HEAD GP

PART OF 452-6584 CYLINDER HEAD GP

SMCS-1100

i05883715

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	199-9751	1	SEAL-O-RING	
	2	1	277-4302	2	DOWEL	
	3	1	295-6661	1	PLUG	
	4	1	232-1322	1	PLUG	
Y	5	1	384-5313	1	CYLINDER HEAD AS	57
Y - SEPARATE ILLUSTRATION						



GRAPHIC #1

<END>

g03714865

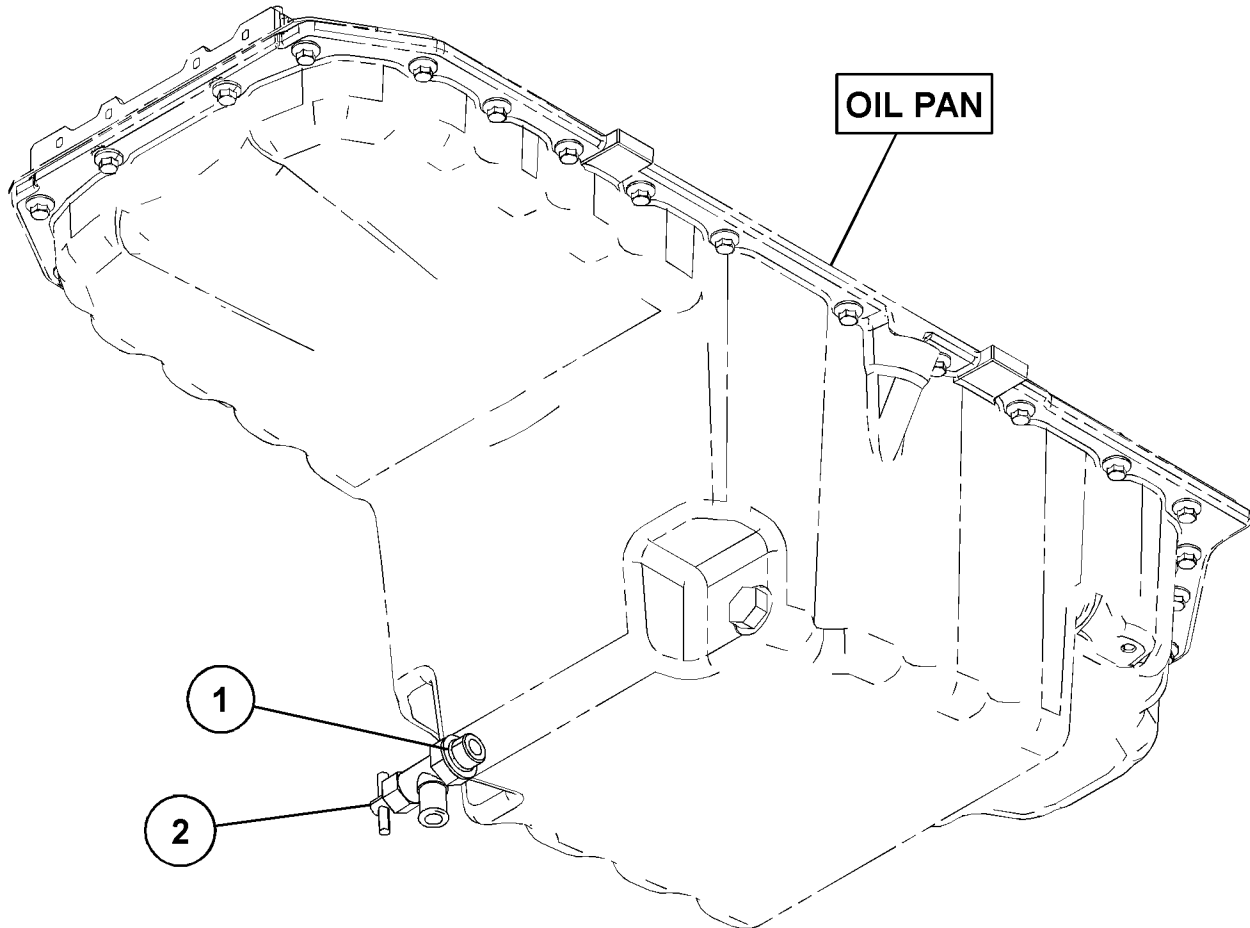
BASIC ENGINE

371-2742 DRAIN GP-ENGINE OIL

SMCS-1302

i05712374

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-7238	1	VALVE-SHUTOFF						



GRAPHIC #1

<END>

g03171685

BASIC ENGINE

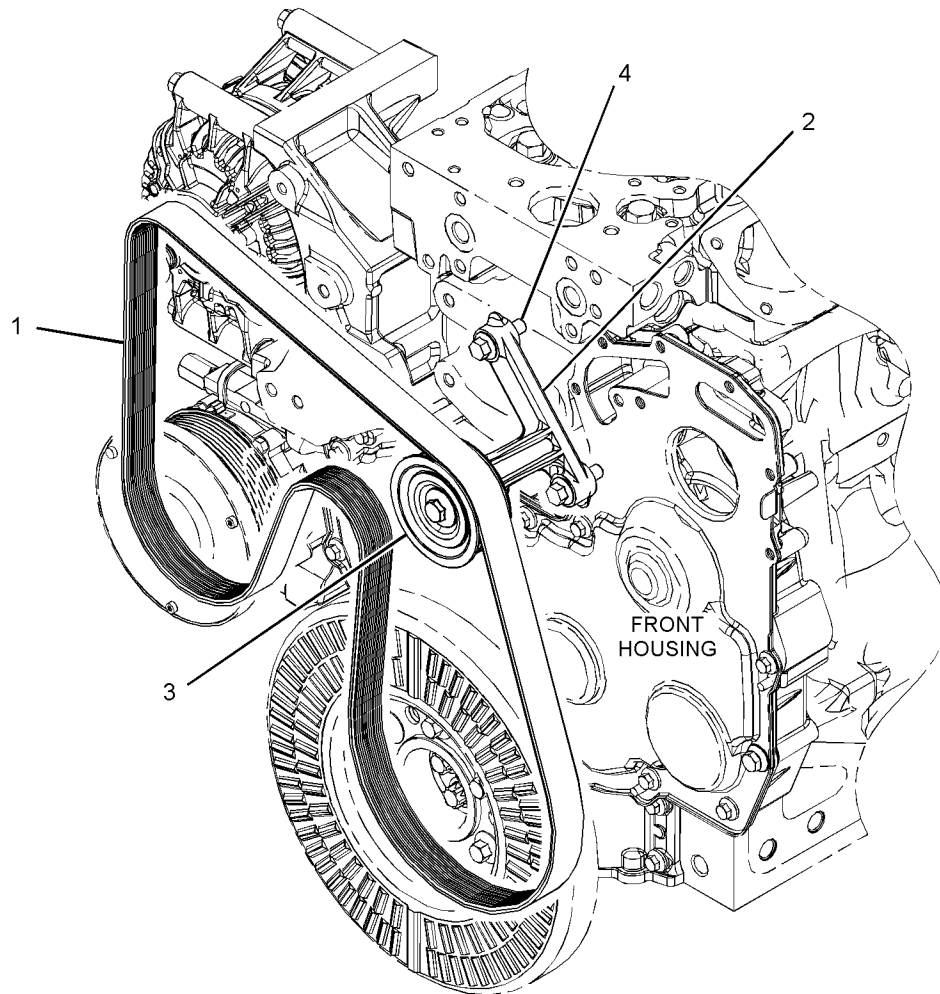
374-7093 DRIVE GP-FAN

SMCS-1359

i05990357

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	350-8742	1	BELT-SERPENTINE						
	2	1	371-8298	1	BRACKET						
	3	1	377-9255	1	PULLEY AS (8-GROOVE)						
M	4	1	111-0859	2	BOLT (M10X1.5X35-MM)						

M - METRIC PART



GRAPHIC #1

<END>

g03457836

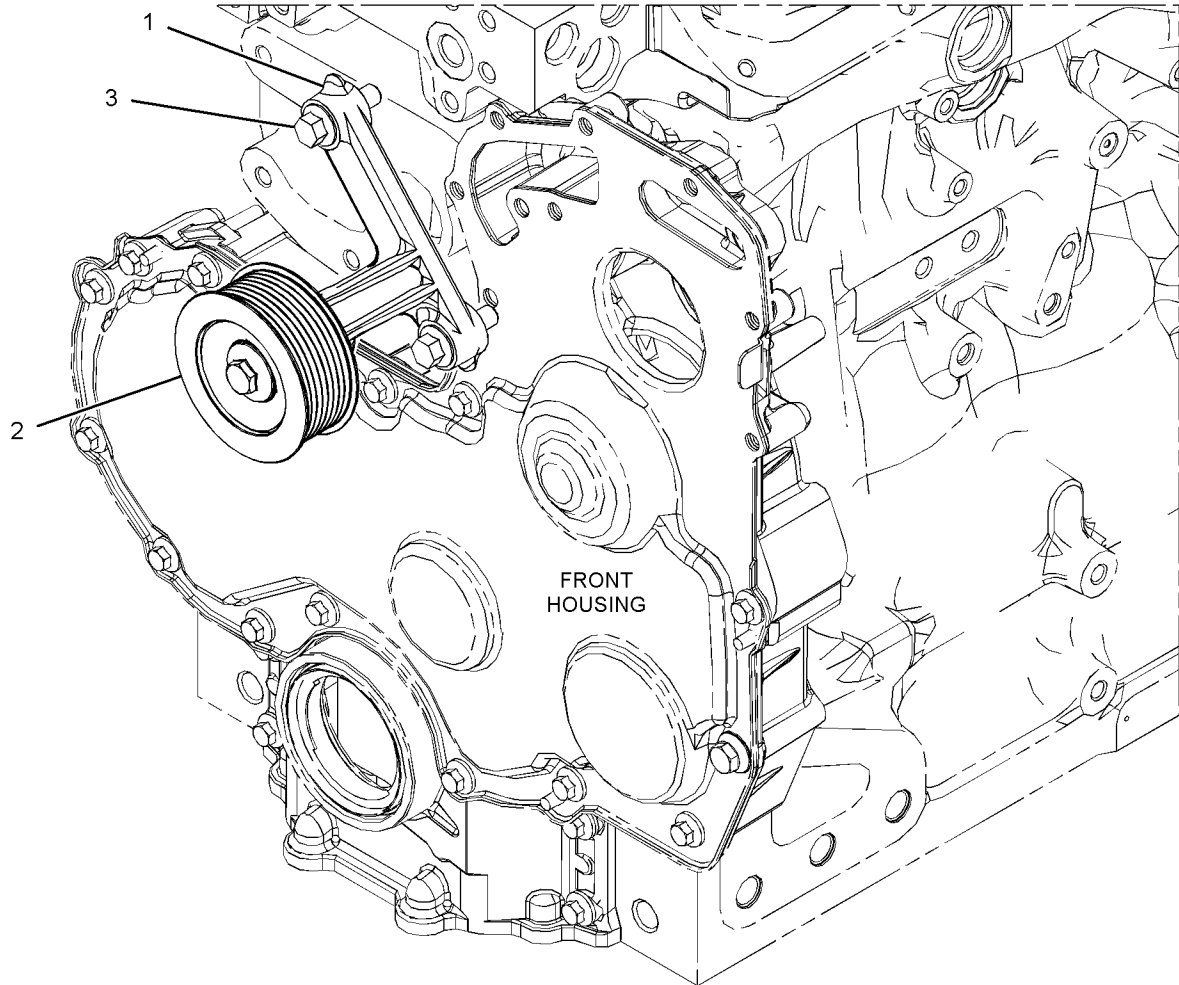
BASIC ENGINE

375-3937 DRIVE GP-FAN

SMCS-1359

i05582483

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	371-8298	1	BRACKET						
	2	1	377-9255	1	PULLEY (8-GROOVE)						
	3	1	111-0859	2	BOLT (M10X1.5X35-MM)						



GRAPHIC #1

<END>

g03108922

BASIC ENGINE

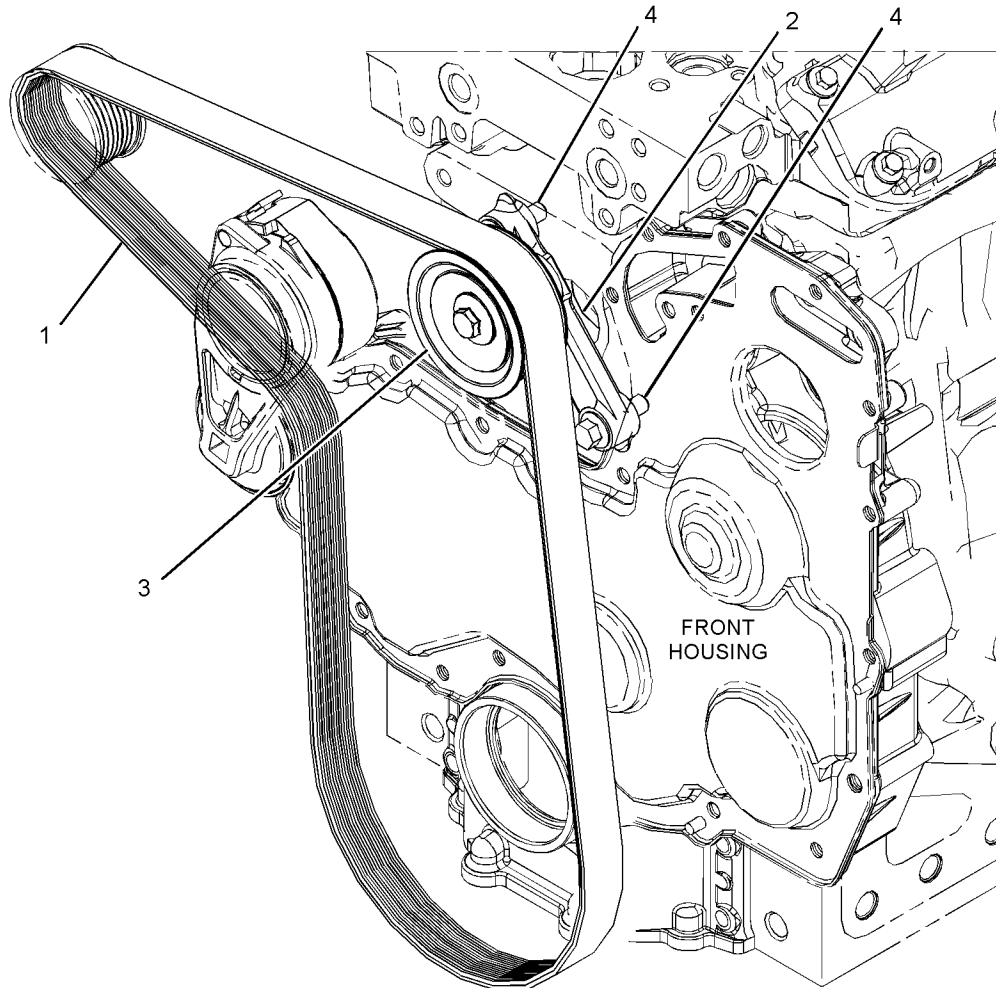
379-0957 DRIVE GP-FAN

SMCS-1359

i05712149

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	365-2985	1	BELT-SERPENTINE						
	2	1	371-8298	1	BRACKET						
	3	1	377-9255	1	PULLEY AS (8-GROOVE)						
		1	423-7576	1	BOLT (M10X1.5X50-MM)						
M	4	1	111-0859	2	BOLT (M10X1.5X35-MM)						

M - METRIC PART



GRAPHIC #1

<END>

g03380686

BASIC ENGINE

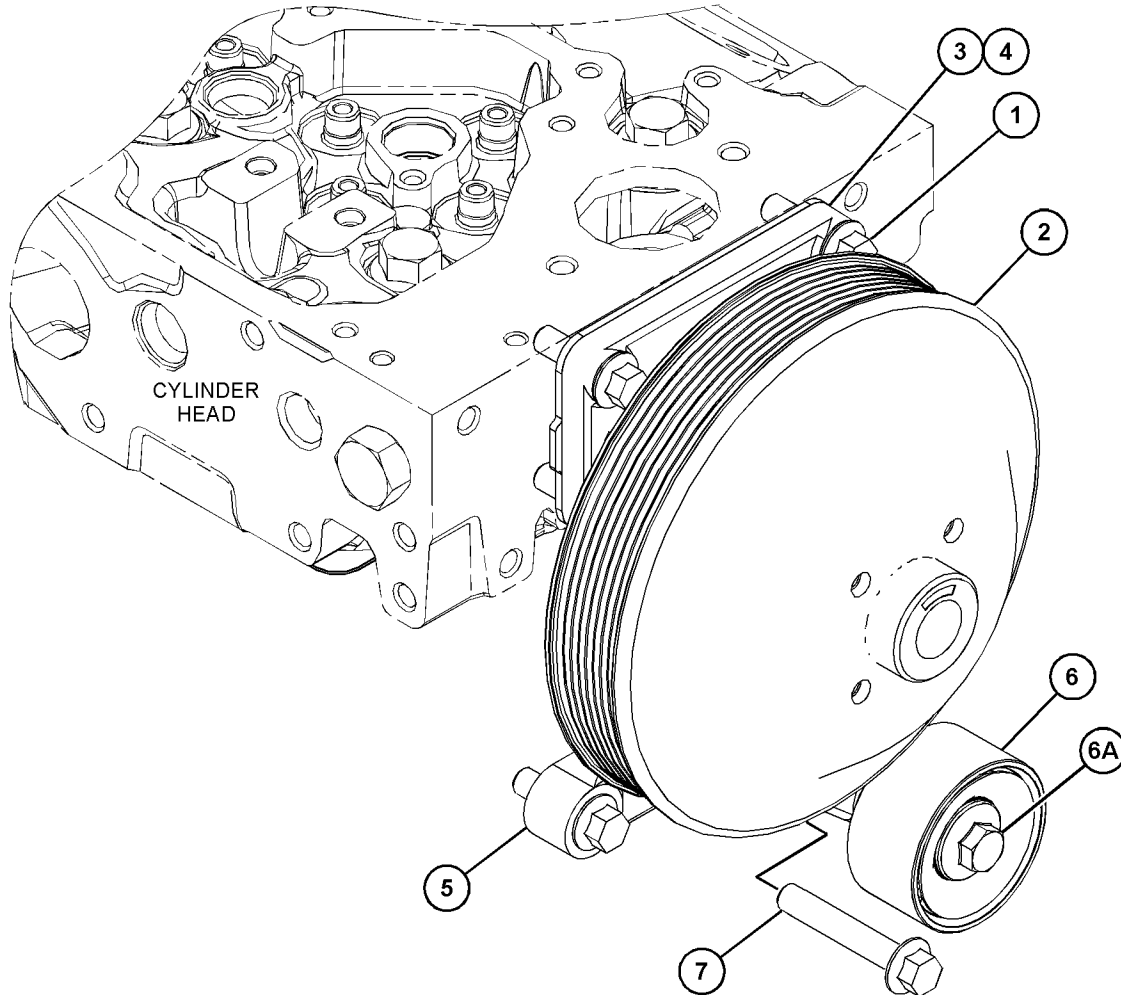
380-2602 DRIVE GP-FAN

SMCS-1359

i05755561

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	111-0859	5	BOLT (M10X1.5X35-MM)						
	2	1	261-4320	1	PULLEY (8-GROOVE)						
	3	1	326-1876	1	HOUSING-FAN DRIVE						
	4	1	318-1049	1	SPACER						
	5	1	288-2354	1	BRACKET						
	6	1	261-0428	1	PULLEY AS-IDLER						
M	6A	1	307-2242	1	BOLT (M10X1.5X45-MM)						
M	7	1	61-0650	1	BOLT (M10X1.5X65-MM)						

M - METRIC PART



GRAPHIC #1

<END>

g03664940

BASIC ENGINE

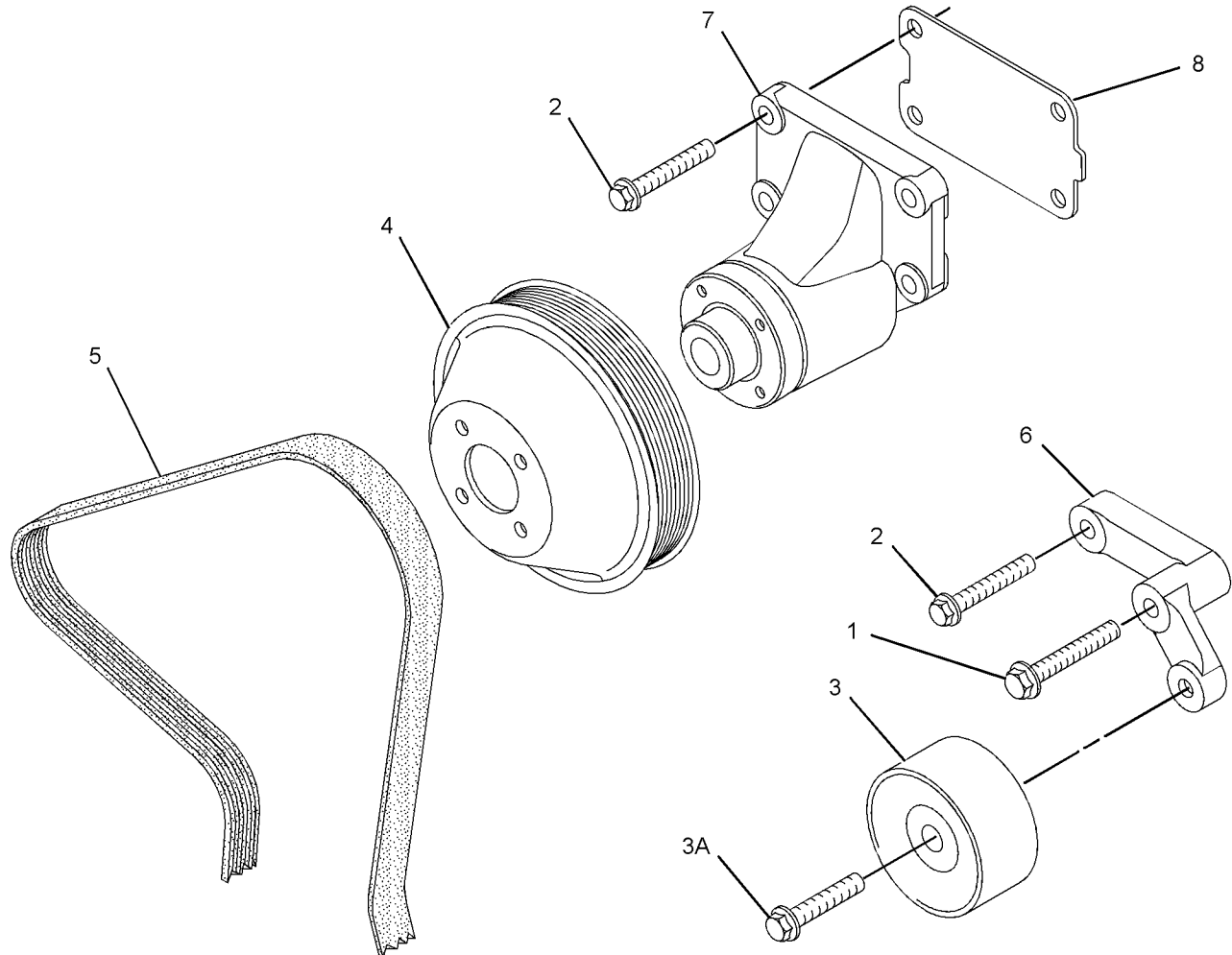
391-5560 DRIVE GP-FAN

SMCS-1359

i05580848

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0650	1	BOLT (M10X1.5X65-MM)						
M	2	1	111-0859	5	BOLT (M10X1.5X35-MM)						
	3	1	261-0428	1	PULLEY AS-IDLER						
M	3A	1	307-2242	1	BOLT (M10X1.5X45-MM)						
	4	1	261-4320	1	PULLEY (8-GROOVE)						
	5	1	283-1171	1	BELT-SERPENTINE						
	6	1	288-2354	1	BRACKET						
	7	1	326-1876	1	HOUSING-FAN DRIVE						
	8	1	318-1049	1	SPACER						

M - METRIC PART



GRAPHIC #1

<END>

g01400465

BASIC ENGINE

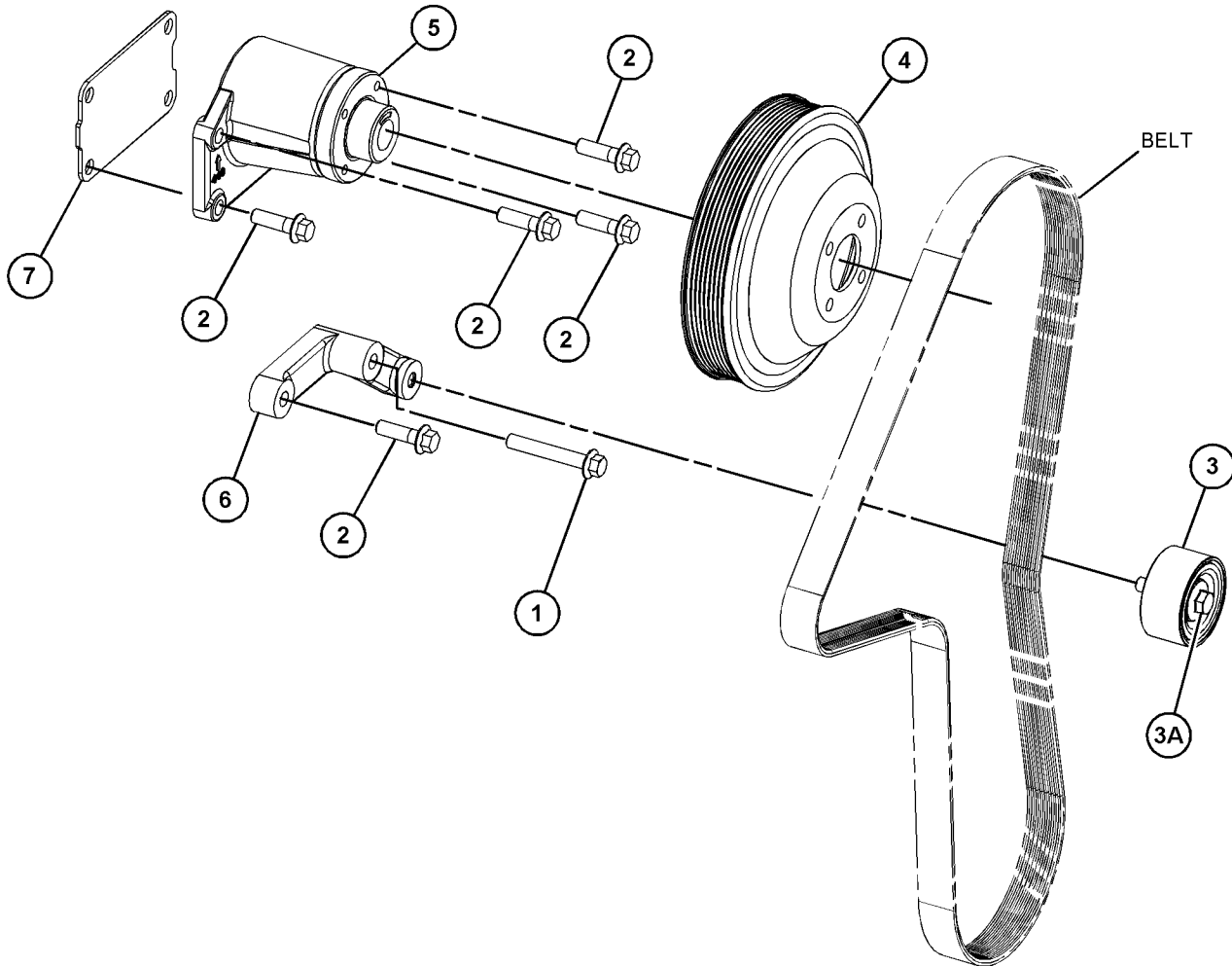
392-0468 DRIVE GP-FAN

SMCS-1359

i05714809

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0650	1	BOLT (M10X1.5X65-MM)						
M	2	1	111-0859	5	BOLT (M10X1.5X35-MM)						
	3	1	261-0428	1	PULLEY AS-IDLER						
M	3A	1	307-2242	1	BOLT (M10X1.5X45-MM)						
	4	1	261-4320	1	PULLEY (8-GROOVE)						
		1	382-7383	1	BELT						
	5	1	326-1879	1	HOUSING-FAN DRIVE						
	6	1	288-2354	1	BRACKET						
	7	1	318-1049	1	SPACER						

M - METRIC PART



GRAPHIC #1

<END>

g03651396

BASIC ENGINE

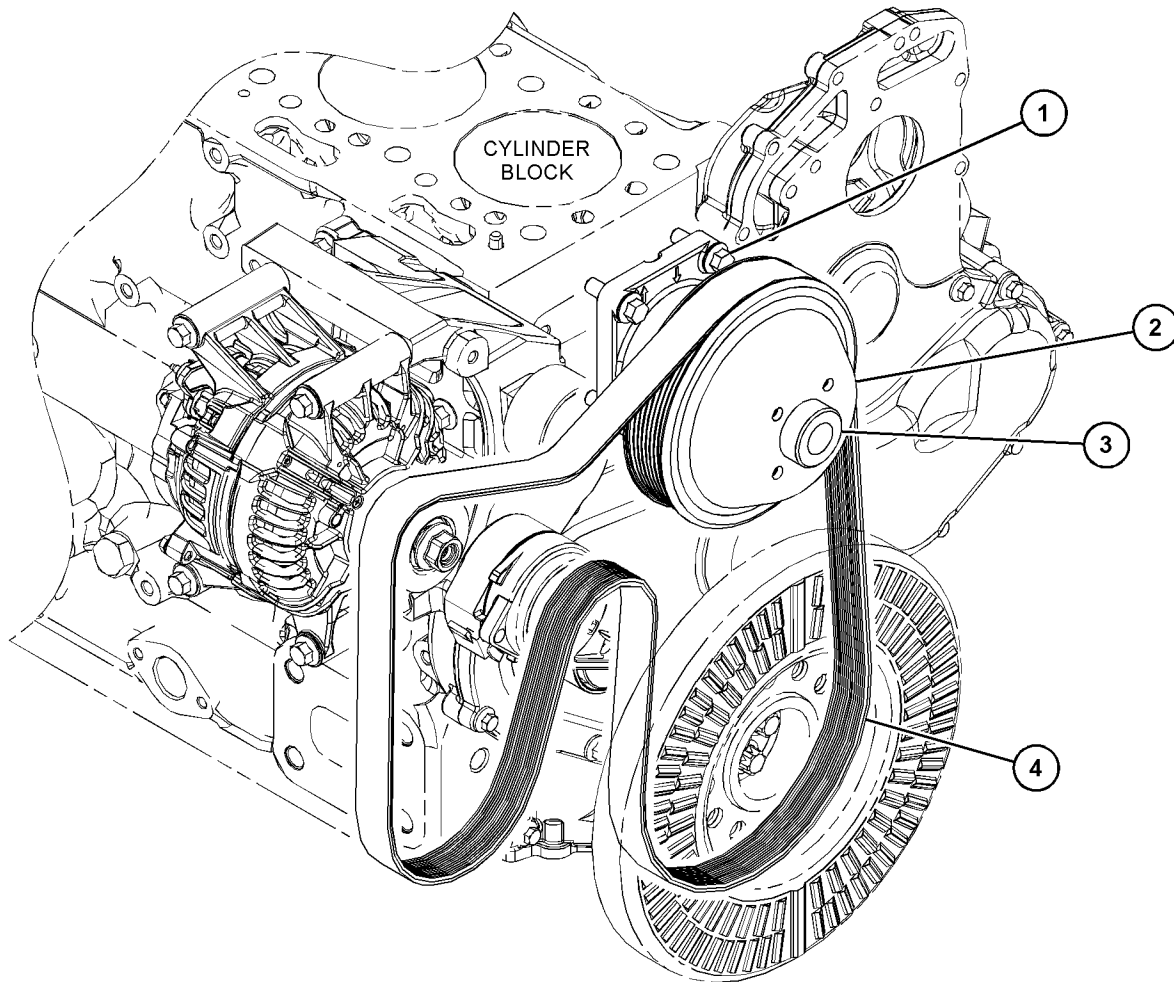
392-6911 DRIVE GP-FAN

SMCS-1359

i05726742

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	111-0859	4	BOLT (M10X1.5X35-MM)						
	2	1	283-4148	1	PULLEY (8-GROOVE)						
	3	1	289-8336	1	HOUSING AS						
	4	1	298-5873	1	BELT (DRIVE FAN)						

M - METRIC PART



GRAPHIC #1

<END>

g03665055

BASIC ENGINE

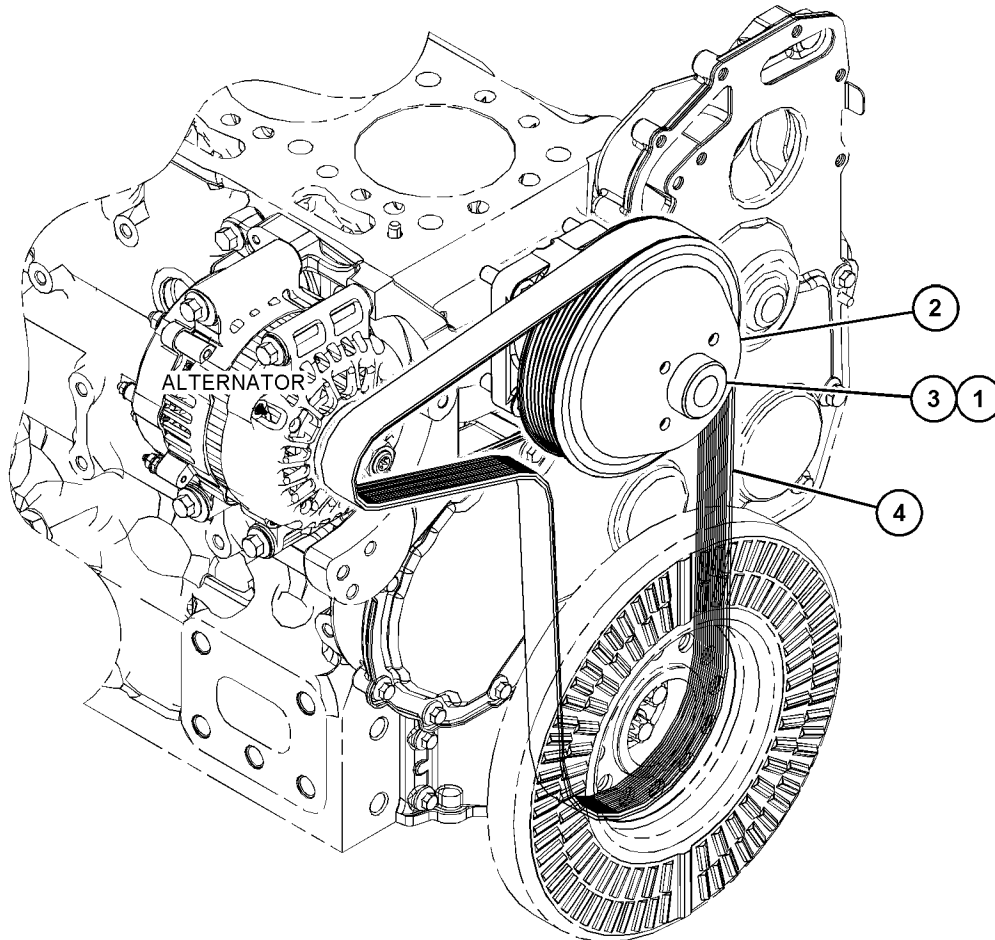
393-2180 DRIVE GP-FAN

SMCS-1359

i05847750

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
M	1	1	111-0859	4	BOLT (M10X1.5X35-MM)	
	2	1	283-4148	1	PULLEY (8-GROOVE)	
	3	1	289-8336	1	HOUSING AS	
	4	1	293-5248	1	BELT-SERPENTINE	

M - METRIC PART



GRAPHIC #1

<END>

g03696909

BASIC ENGINE

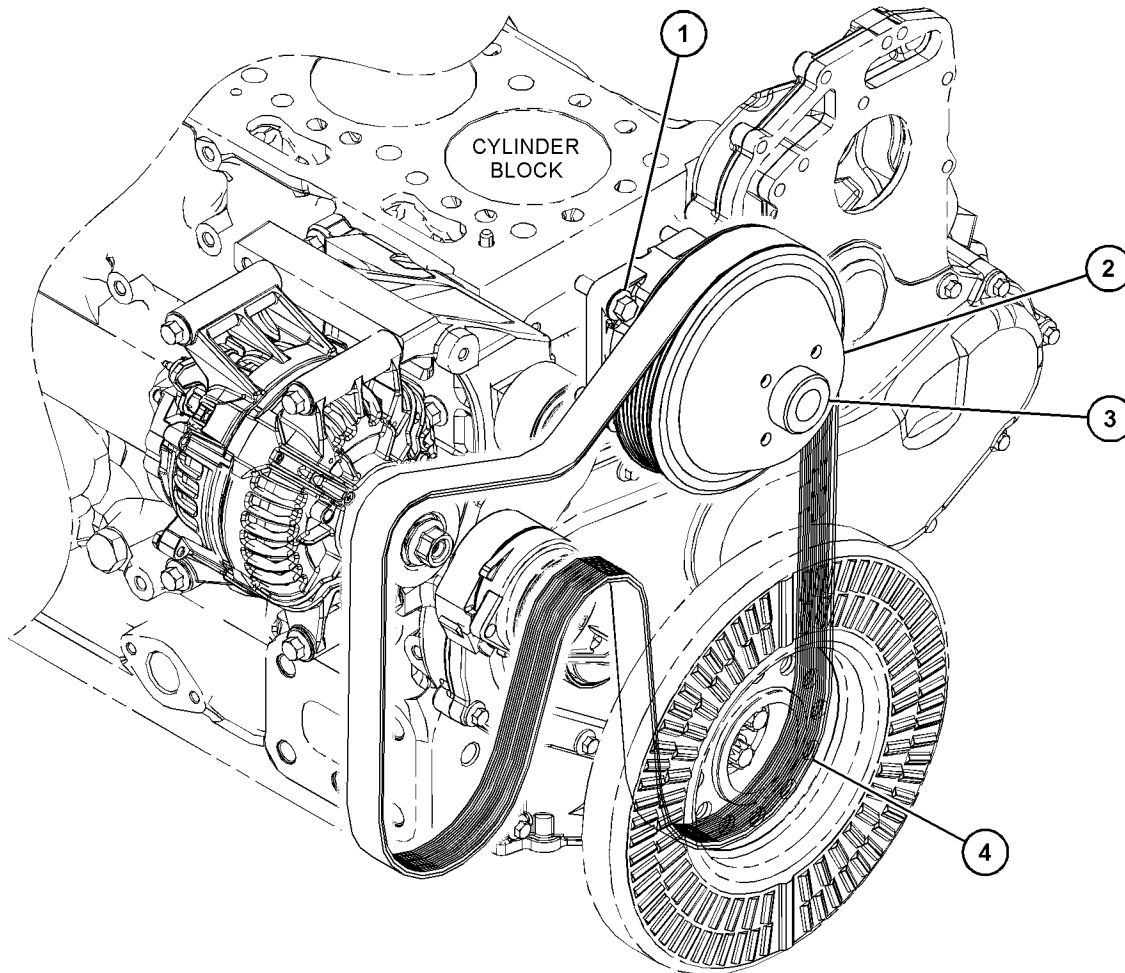
393-2183 DRIVE GP-FAN

SMCS-1359

i05906485

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	111-0859	4	BOLT (M10X1.5X35-MM)						
	2	1	283-4148	1	PULLEY (8-GROOVE)						
	3	1	289-8336	1	HOUSING AS						
	4	1	298-5872	1	BELT-SERPENTINE (FAN PULLEY)						

M - METRIC PART



GRAPHIC #1

<END>

g03737424

BASIC ENGINE

415-3083 DRIVE GP-FAN

SMCS-1359

i05957861

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
M	111-0859	4	BOLT (M10X1.5X35-MM)	
	284-1026	1	PULLEY (8-GROOVE)	
	287-6842	1	BELT-SERPENTINE	
	289-8336	1	HOUSING AS	
	347-8986	1	BELT	
M - METRIC PART				
<END>				

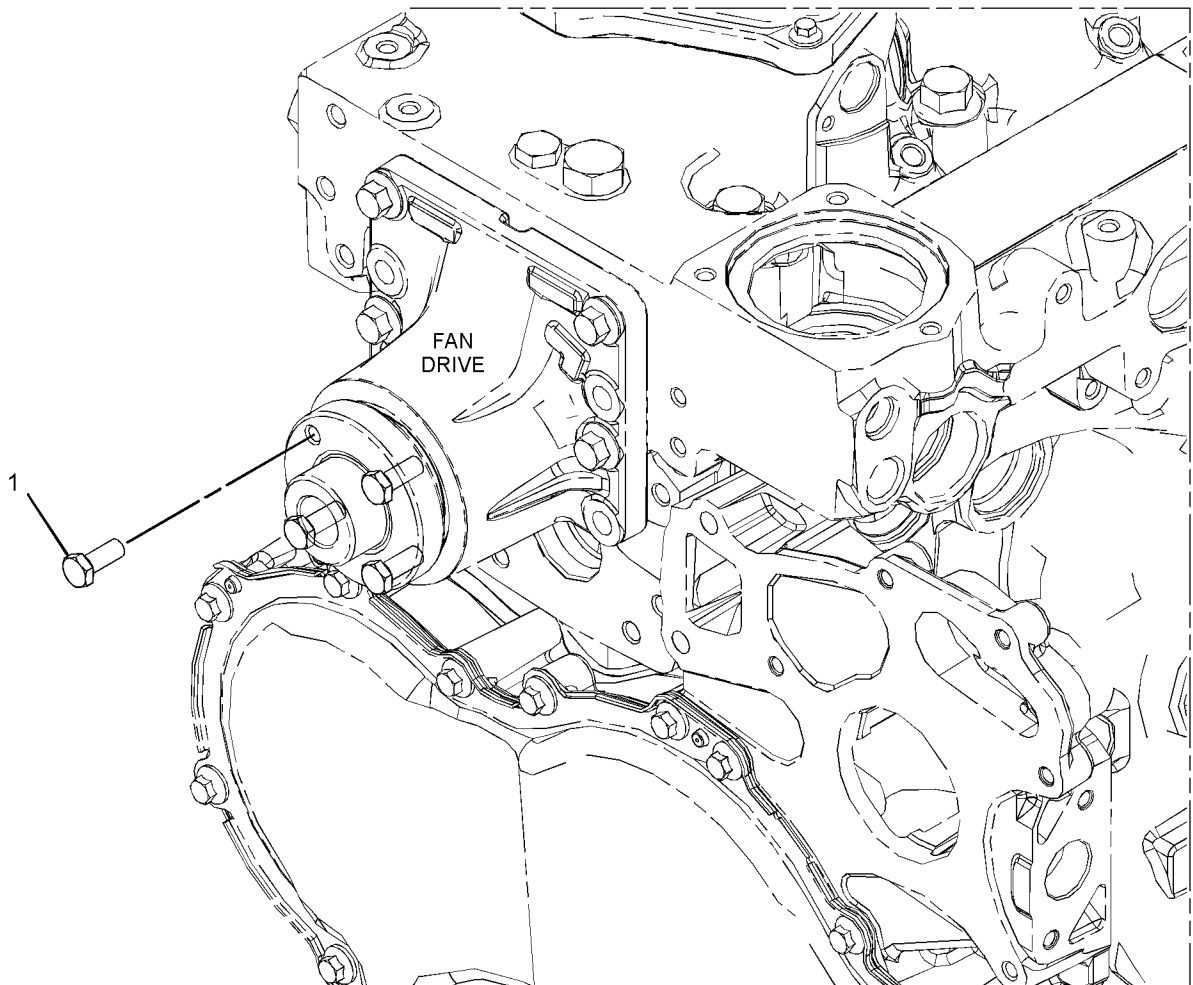
BASIC ENGINE

371-2694 EXTENSION GP-FAN

SMCS-1359

i05723851

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	179-7071	4	BOLT (M8X1.25X20-MM)						



GRAPHIC #1

<END>

g02564805

BASIC ENGINE

375-8320 EXTENSION GP-FAN

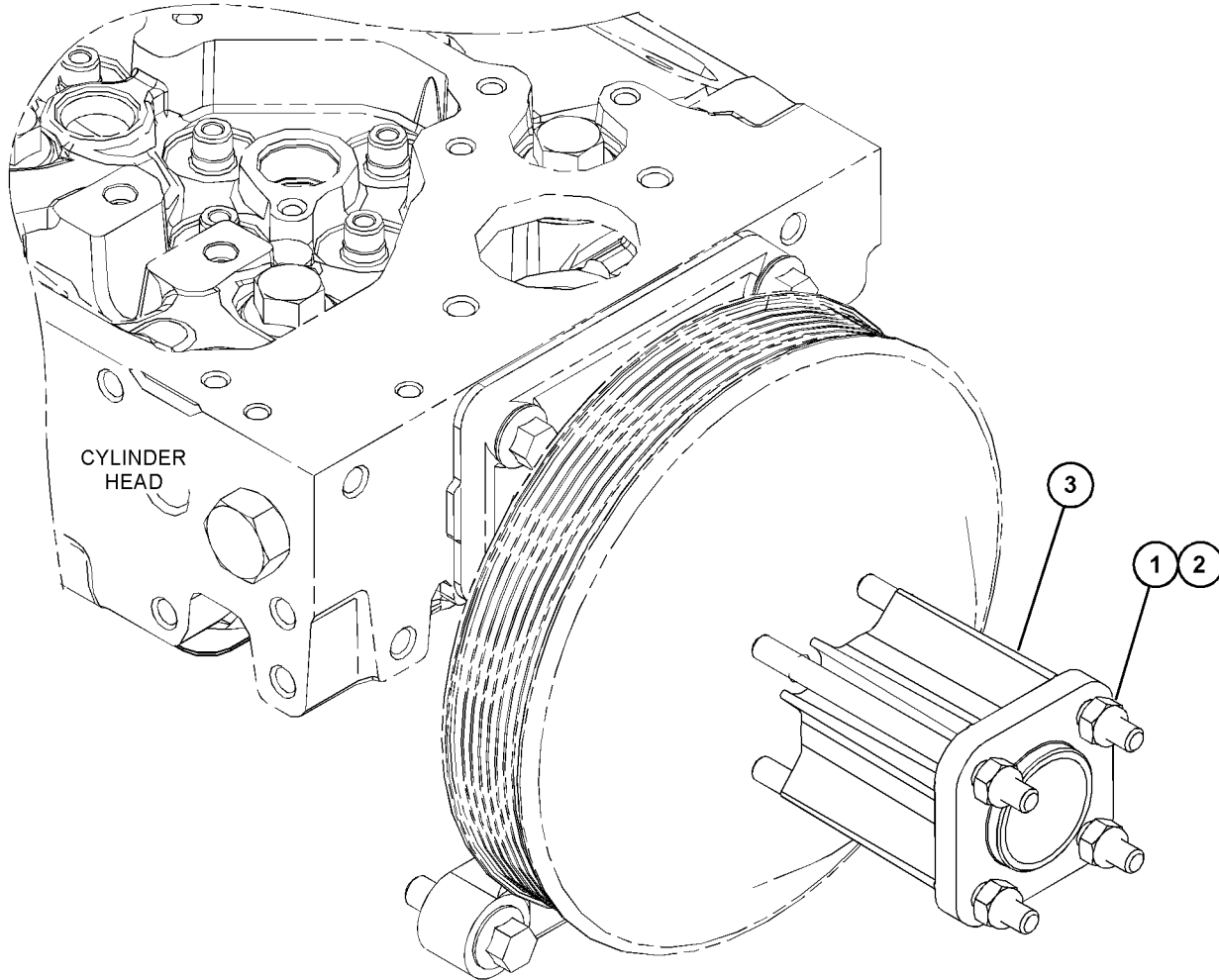
3" / 76.2 MM EXTENSION

SMCS-1359

i05727213

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-9189	4	LOCKNUT (M8X1.25-THD)						
	2	1	133-7668	4	STUD						
	3	1	133-7669	1	EXTENSION-FAN						

M - METRIC PART



GRAPHIC #1

<END>

g03666082

BASIC ENGINE

393-9542 EXTENSION GP-FAN

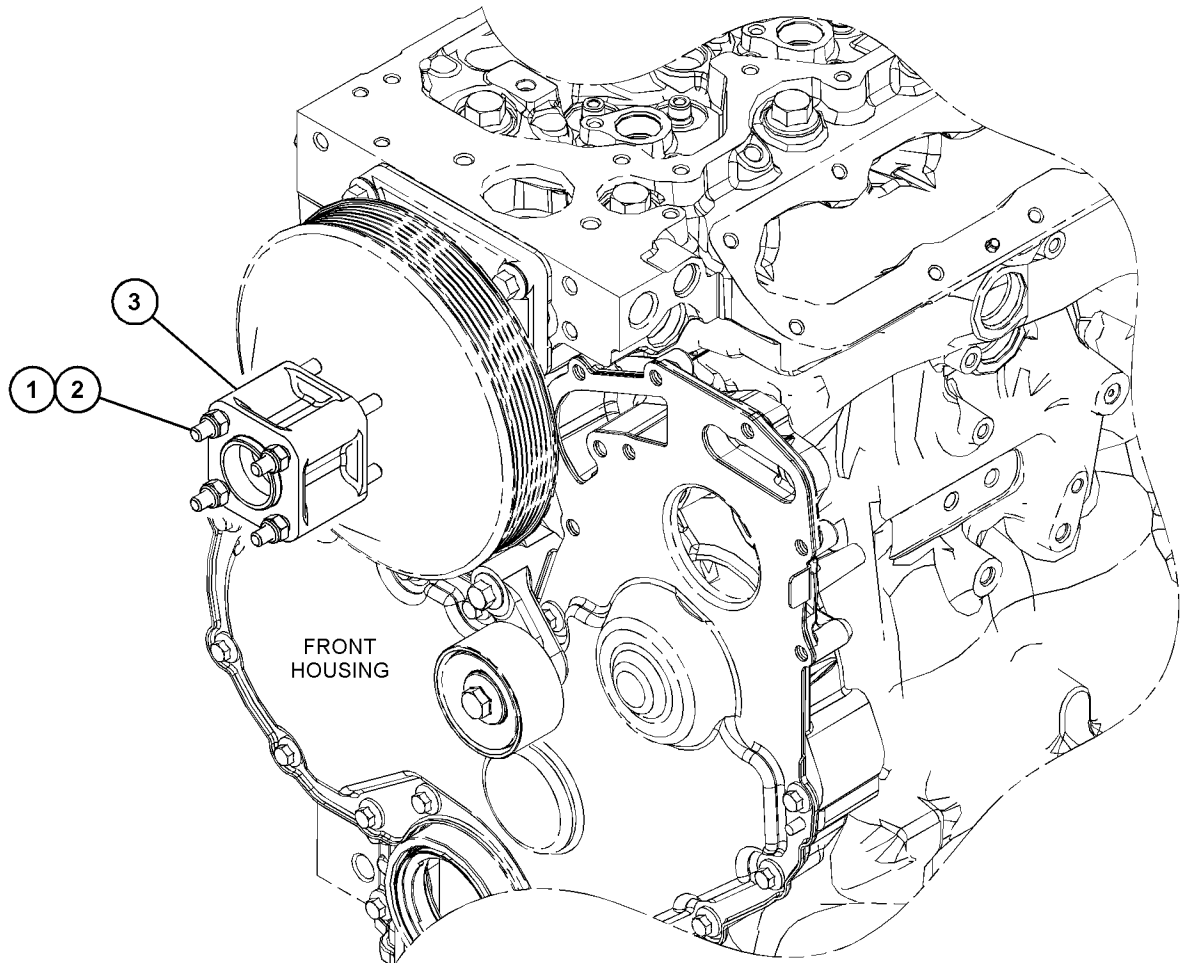
2' ' / 50.8MM . EXTENSION

SMCS-1359

i05723635

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-9189	4	LOCKNUT (M8X1.25-THD)						
	2	1	135-5417	4	STUD						
	3	1	9Y-1590	1	EXTENSION-FAN						

M - METRIC PART



GRAPHIC #1

<END>

g03646977

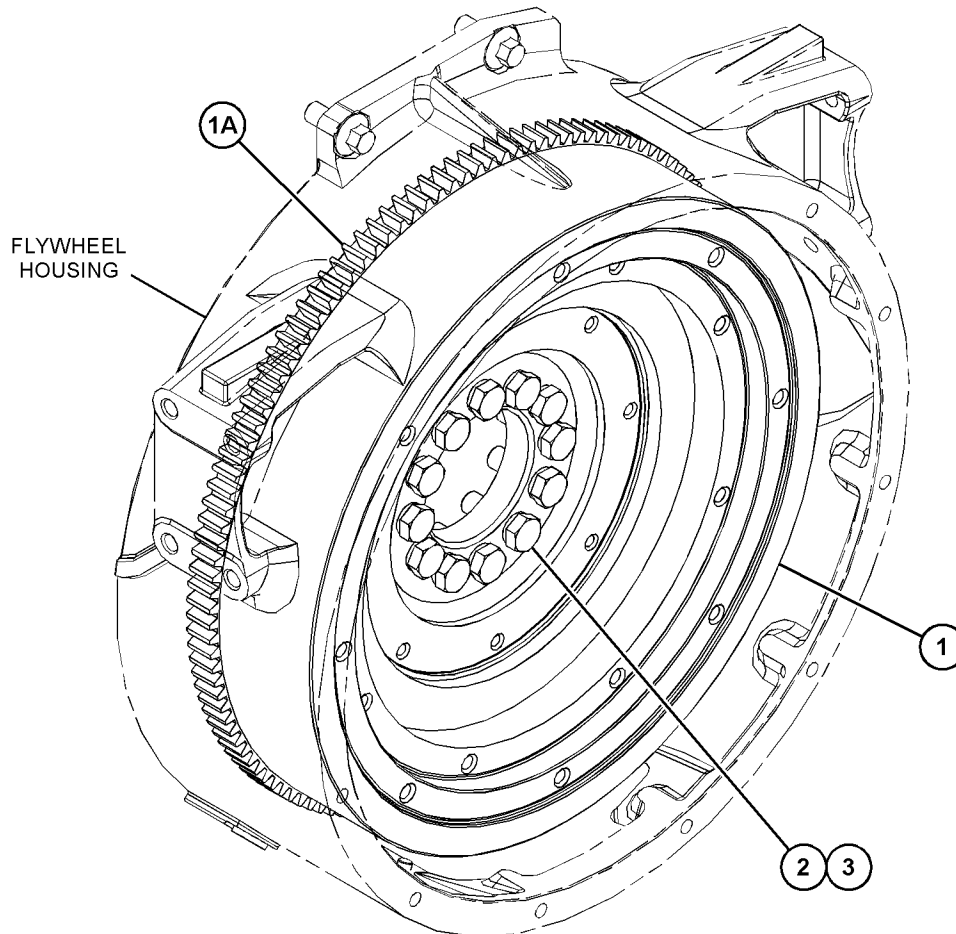
BASIC ENGINE

345-8901 FLYWHEEL GP

SMCS-1156

i05716452

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	103-6131	1	FLYWHEEL AS						
	1A	1	033-7687	1	RING-STARTING MOTOR (126-TEETH)						
	2	1	0S-1603	12	BOLT (1/2-20X1.5-IN)						
	3	1	145-4911	12	WASHER						



GRAPHIC #1

<END>

g03647217

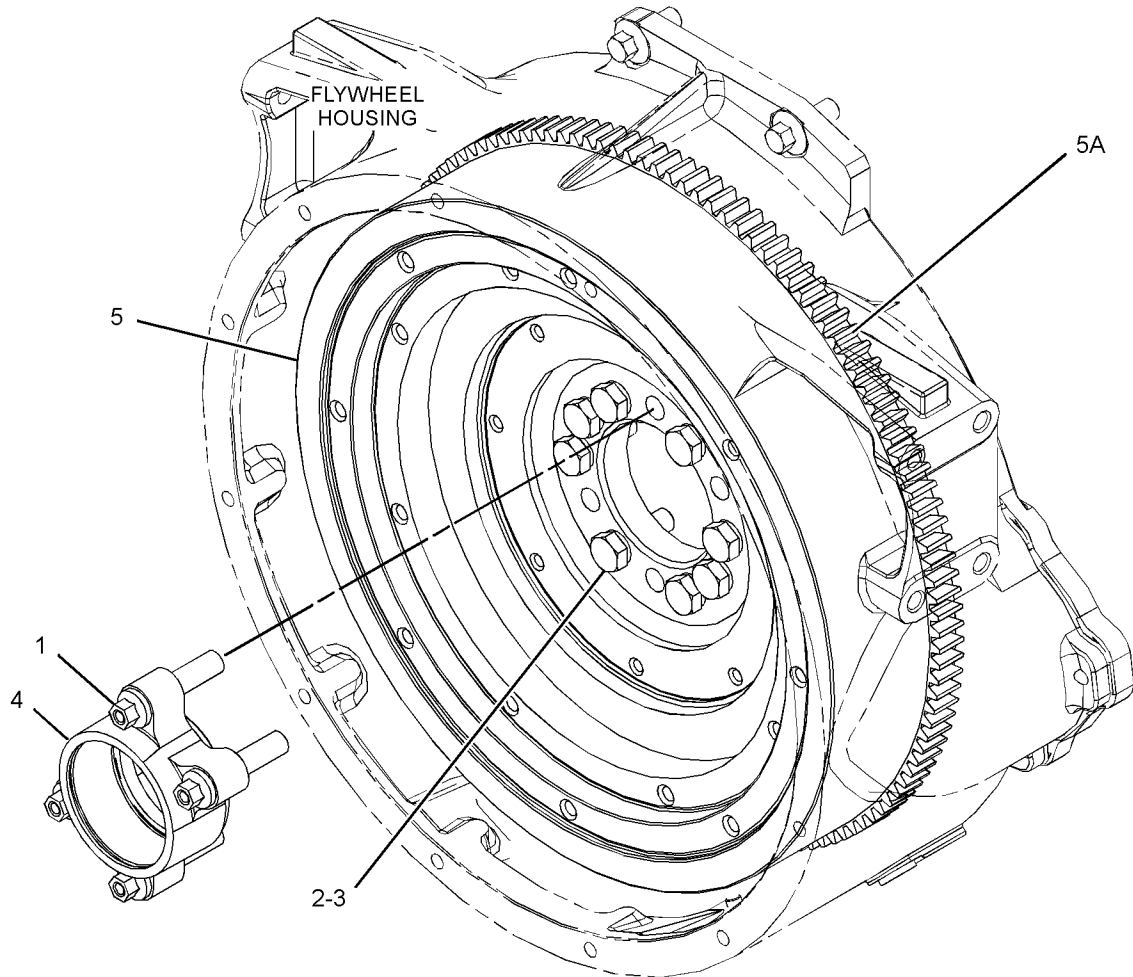
BASIC ENGINE

345-8902 FLYWHEEL GP

SMCS-1156

i05859651

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9V-3811	4	BOLT-12 POINT HEAD (1/2-20X2.25-IN)						
	2	1	0S-1603	8	BOLT (1/2-20X1.5-IN)						
	3	1	145-4911	8	WASHER						
	4	1	149-5599	1	HOUSING						
	5	1	103-6131	1	FLYWHEEL AS						
	5A	1	033-7687	1	RING-STARTING MOTOR (126-TEETH)						



GRAPHIC #1

<END>

g03310057

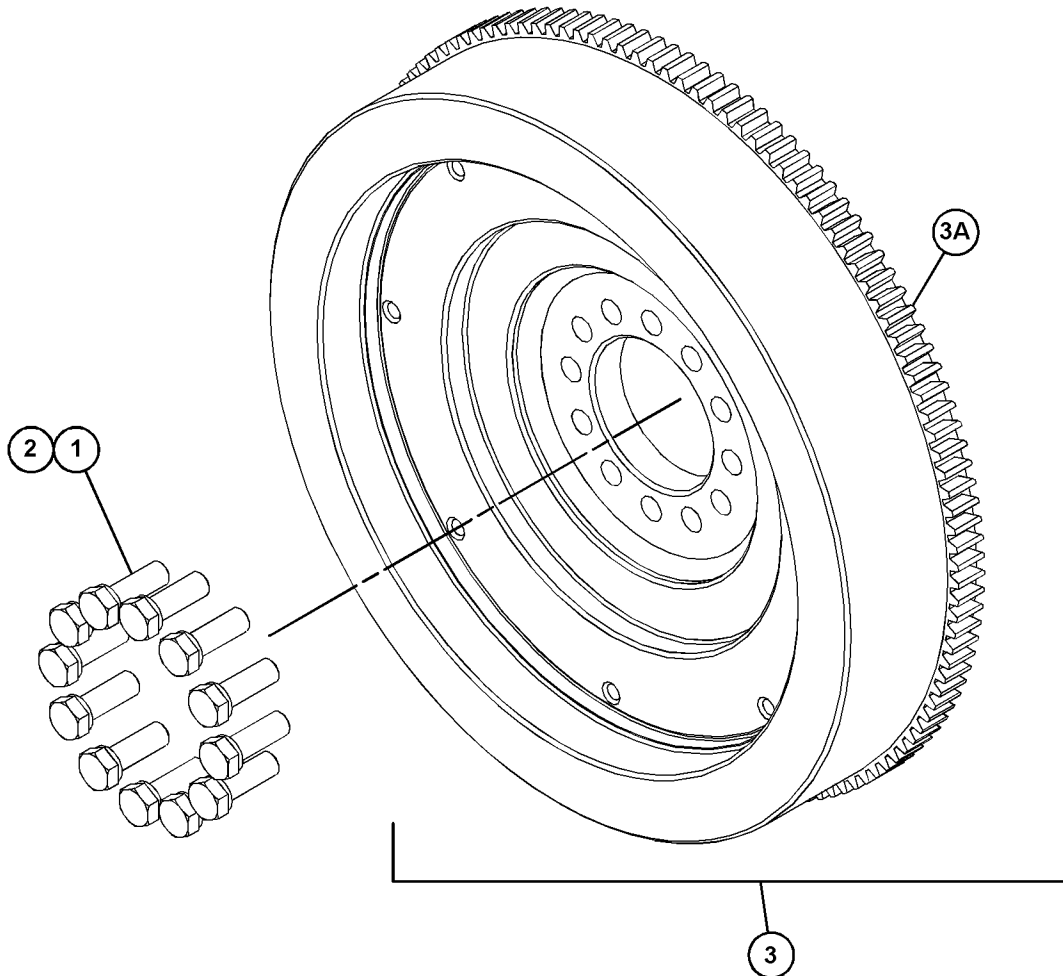
BASIC ENGINE

345-8961 FLYWHEEL GP

SMCS-1156

i05752988

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	0S-1603	12	BOLT (1/2-20X1.5-IN)						
	2	1	145-4911	12	WASHER						
	3	1	165-6689	1	FLYWHEEL AS						
	3A	1	033-7687	1	RING-STARTING MOTOR (126-TEETH)						



GRAPHIC #1

<END>

g03686845

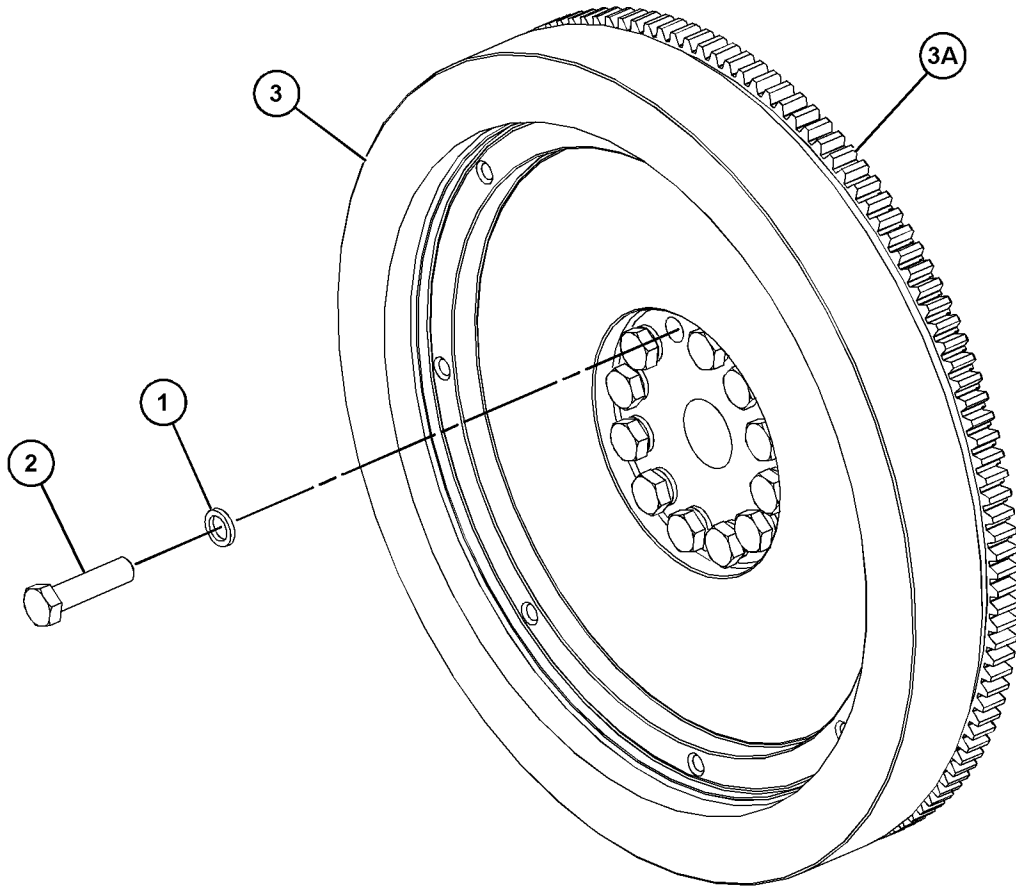
BASIC ENGINE

345-9037 FLYWHEEL GP

SMCS-1156

i05723633

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	145-4911	12	WASHER						
	2	1	279-9254	12	BOLT						
	3	1	308-3702	1	FLYWHEEL AS						
	3A	1	277-0588	1	GEAR-STARTING MOTOR RING (134-TEETH)						



GRAPHIC #1

<END>

g03651400

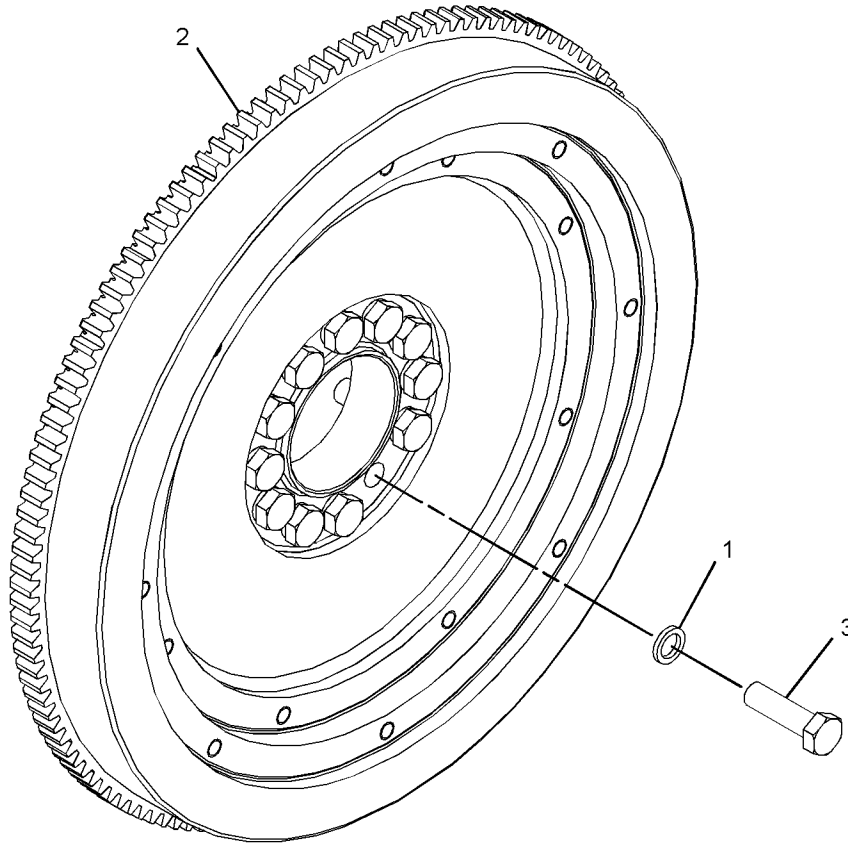
BASIC ENGINE

377-0692 FLYWHEEL GP

SMCS-1156

i05723736

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	145-4911	12	WASHER						
	2	1	361-7350	1	FLYWHEEL AS						
		1	277-0588	1	GEAR-STARTING MOTOR RING (134-TEETH)						
	3	1	321-7706	12	BOLT						



GRAPHIC #1

<END>

g03457476

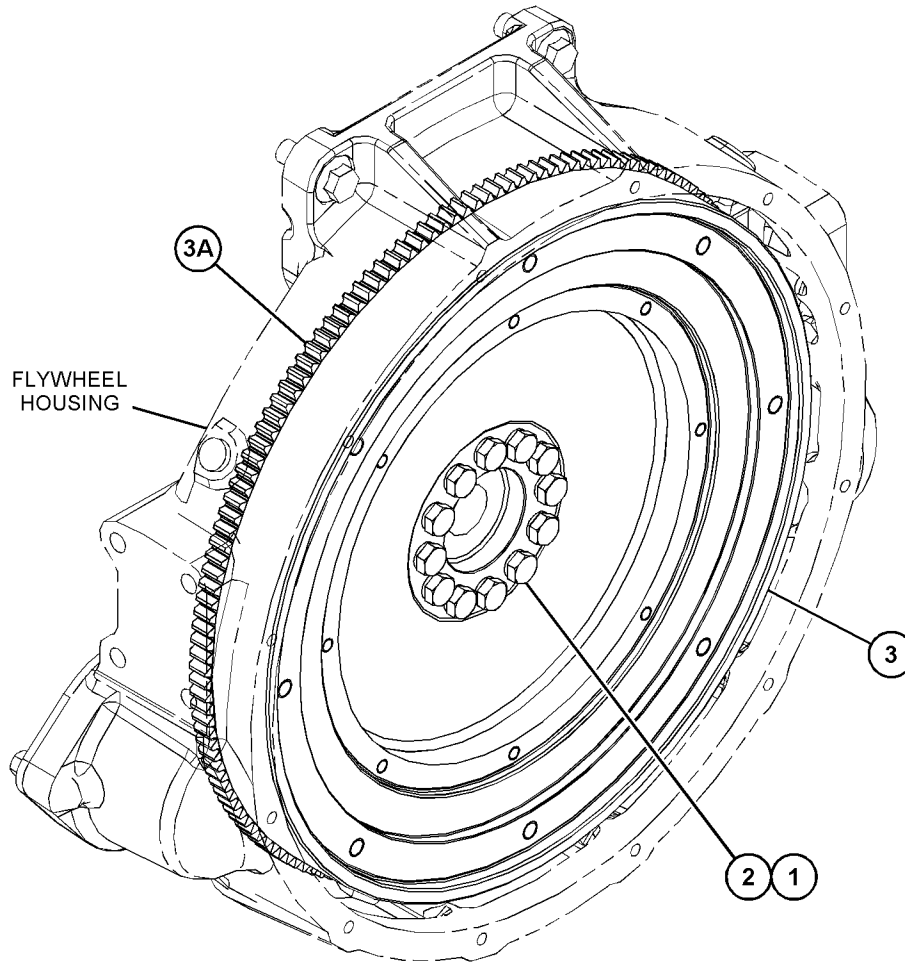
BASIC ENGINE

437-2723 FLYWHEEL GP

SMCS-1156

i05719017

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	145-4911	12	WASHER						
	2	1	279-9254	12	BOLT						
	3	1	356-3499	1	FLYWHEEL AS						
	3A	1	6I-2997	1	GEAR (156-TEETH)						



GRAPHIC #1

<END>

g03646445

BASIC ENGINE

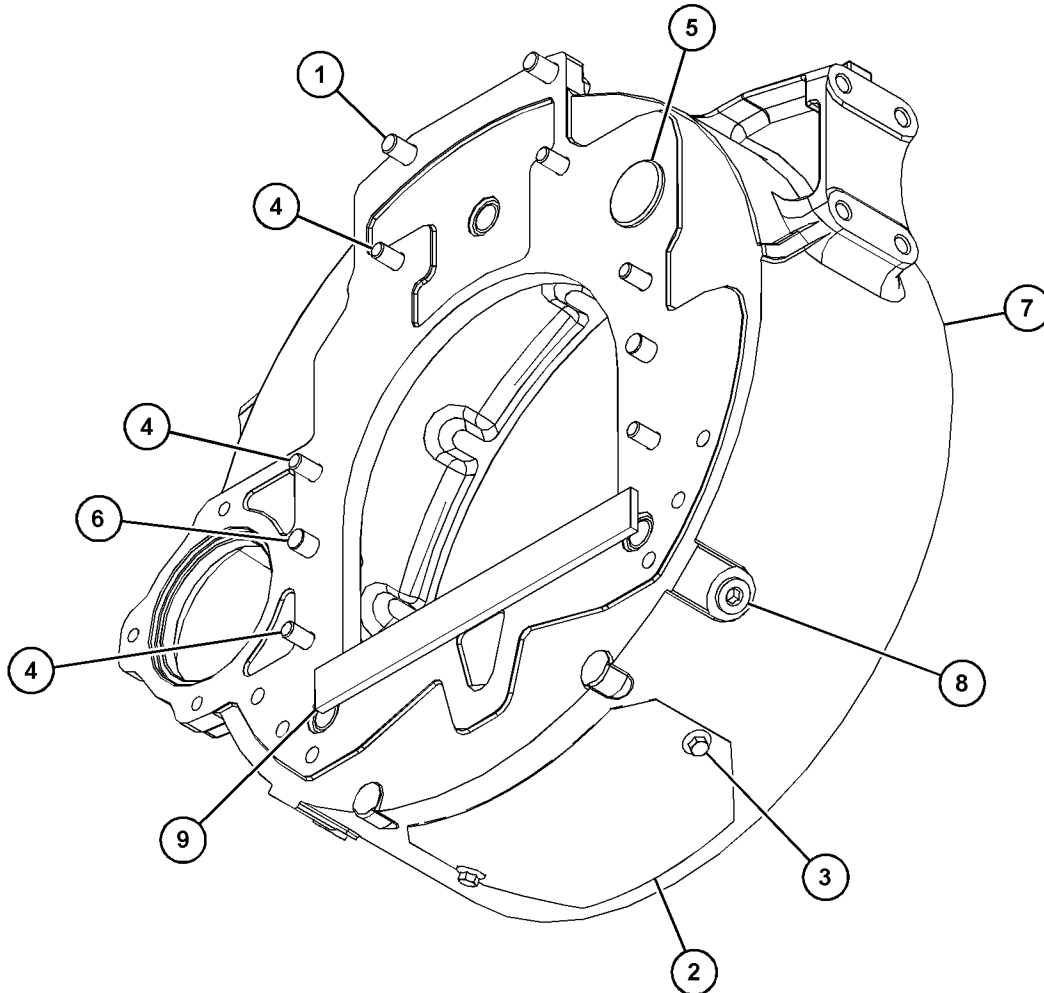
345-8838 HOUSING GP-FLYWHEEL

SMCS-1157

i05727425

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0423	2	BOLT (M12X1.75X30-MM)						
	2	1	7W-1176	1	PLATE-COVER						
	3	1	114-4363	2	BOLT (M8X1.25X12-MM)						
M	4	1	121-0883	6	BOLT (M10X1.5X30-MM)						
	5	1	199-3109	1	PLUG						
	6	1	287-8597	2	DOWEL						
	7	1	306-2332	1	HOUSING-FLYWHEEL						
	8	1	375-9272	2	PLUG						
	9	1	393-4006	1	GASKET						

M - METRIC PART



GRAPHIC #1

<END>

g03647626

BASIC ENGINE

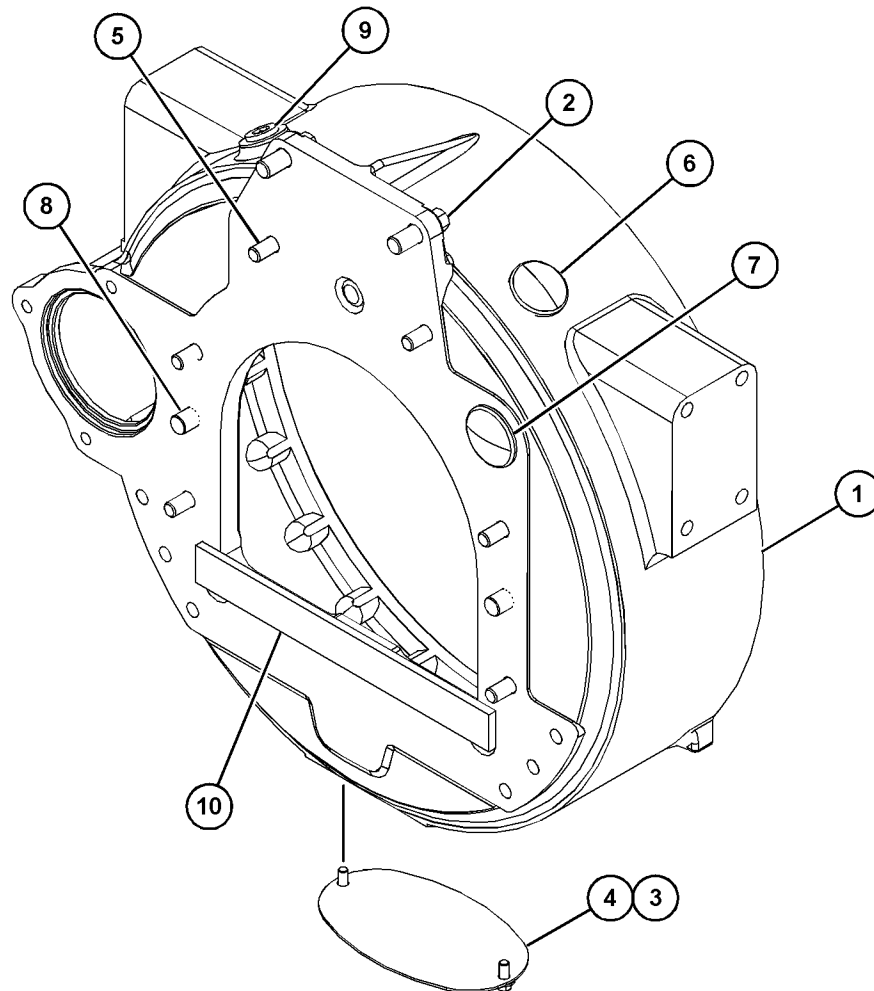
345-8839 HOUSING GP-FLYWHEEL

SMCS-1157

i05726732

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	281-6331	1	HOUSING-FLYWHEEL						
M	2	1	6I-0423	2	BOLT (M12X1.75X30-MM)						
M	3	1	6I-0631	2	BOLT (M6X1X12-MM)						
	4	1	102-1957	1	PLATE						
M	5	1	121-0883	6	BOLT (M10X1.5X30-MM)						
	6	1	199-3108	1	PLUG						
	7	1	199-3109	1	PLUG						
	8	1	287-8597	2	DOWEL						
	9	1	375-9272	1	PLUG						
	10	1	393-4006	1	GASKET						

M - METRIC PART



GRAPHIC #1

<END>

g03666105

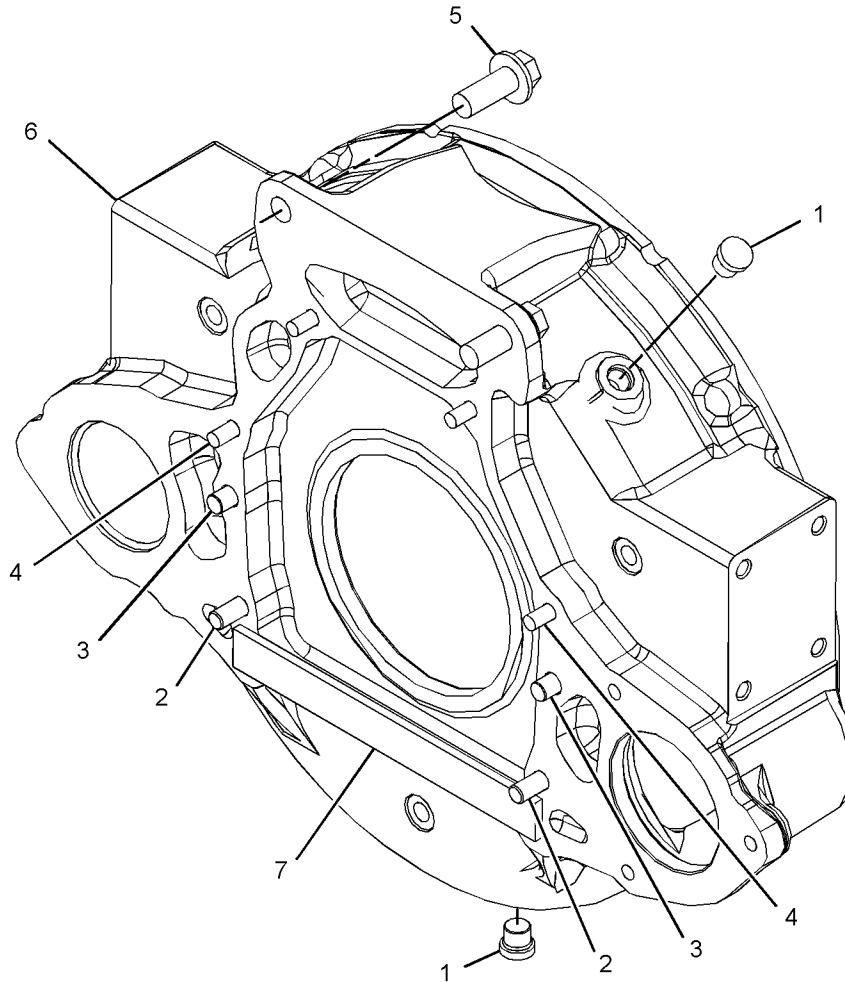
BASIC ENGINE

357-1915 HOUSING GP-FLYWHEEL

SMCS-1157

i06006129

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	277-0121	3	PLUG						
	2	1	283-4662	1	BOLT-FLANGE HEAD						
	3	1	287-8597	1	DOWEL						
	4	1	393-4006	1	GASKET						
	5	1	288-6975	2	BOLT (M16X2X40-MM)						
	6	1	357-1916	1	HOUSING-FLYWHEEL						
	7	1	393-4006	1	GASKET						



GRAPHIC #1

<END>

g03809373

BASIC ENGINE

380-2587 HOUSING GP-FLYWHEEL

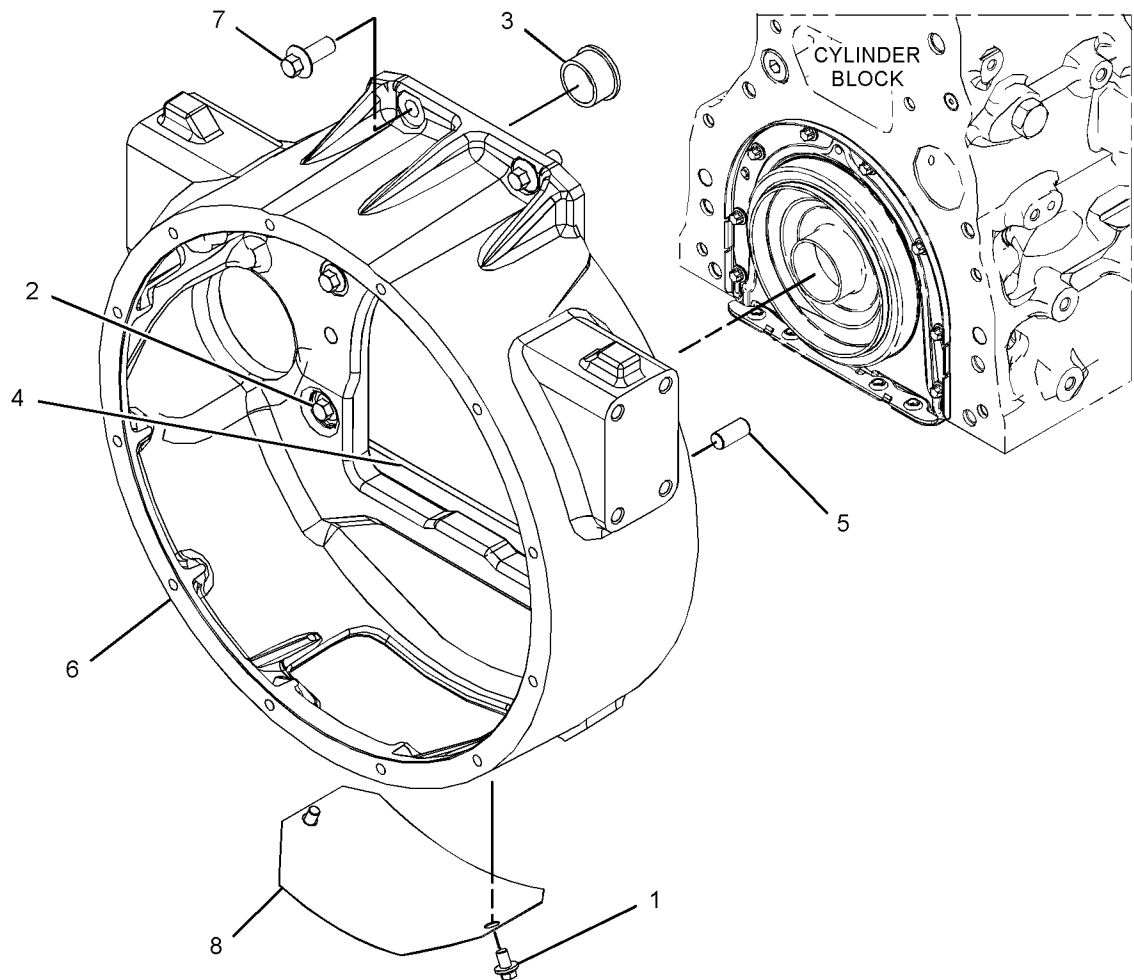
SAE3 LHS STARTER

SMCS-1157

i05752990

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	114-4363	2	BOLT (M8X1.25X12-MM)						
M	2	1	121-0883	6	BOLT (M10X1.5X30-MM)						
	3	1	199-3109	1	PLUG						
	4	1	393-4006	1	GASKET						
	5	1	287-8597	2	DOWEL						
	6	1	347-2151	1	HOUSING-FLYWHEEL						
M	7	1	6I-0423	2	BOLT (M12X1.75X30-MM)						
	8	1	7W-1176	1	PLATE-COVER						

M - METRIC PART



GRAPHIC #1

<END>

g03809404

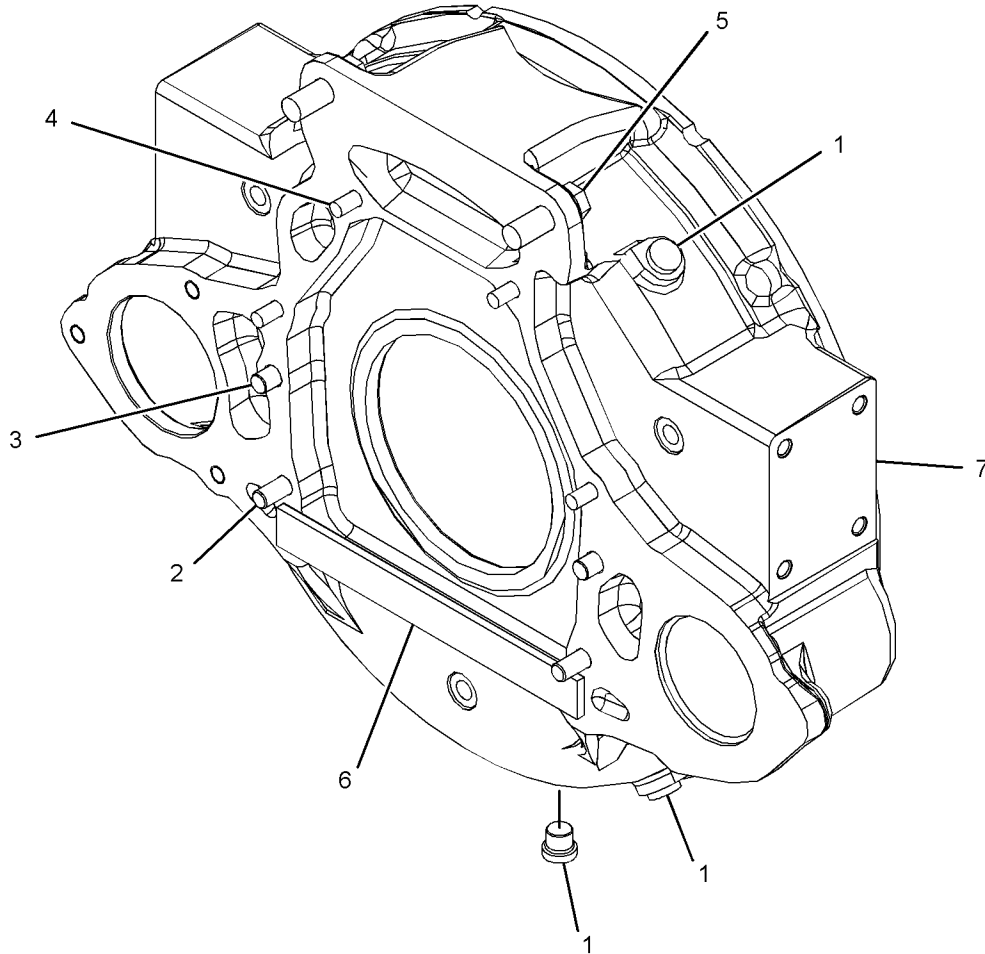
BASIC ENGINE

393-3369 HOUSING GP-FLYWHEEL

SMCS-1157

i06057532

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	354-8322	3	PLUG						
	2	1	283-4662	2	BOLT-FLANGE HEAD						
	3	1	287-8597	2	DOWEL						
	4	1	288-6974	4	BOLT						
	5	1	288-6975	2	BOLT (M16X2X40-MM)						
	6	1	393-4006	1	GASKET						
	7	1	393-4007	1	HOUSING-FLYWHEEL						



GRAPHIC #1

<END>

g03379656

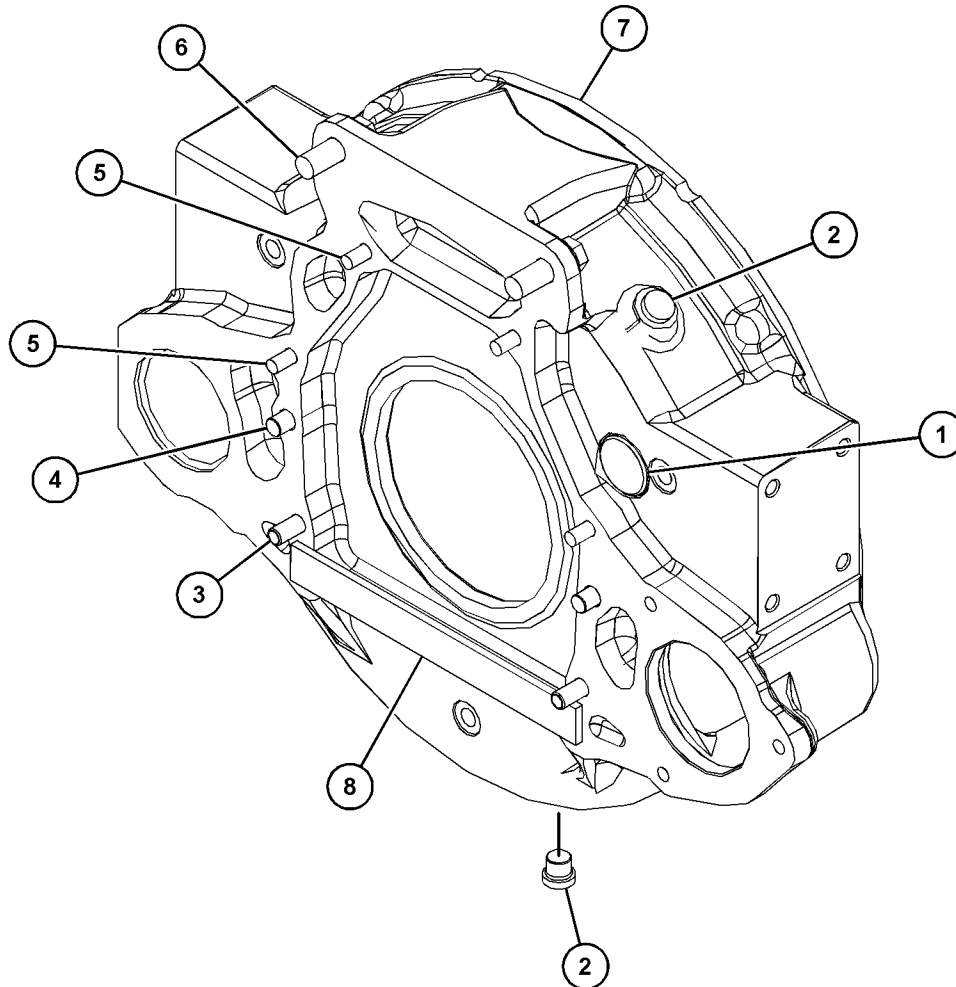
BASIC ENGINE

437-2720 HOUSING GP-FLYWHEEL

SMCS-1157

i05906486

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6	
	1	1	199-3109	1	PLUG						
	2	1	277-0121	2	PLUG						
	3	1	283-4662	2	BOLT - FLANGE HEAD						
	4	1	287-8597	2	DOWEL						
	5	1	288-6974	4	BOLT						
	6	1	288-6975	2	BOLT (M16X2X40-MM)						
	7	1	366-6596	1	HOUSING-FLYWHEEL						
	8	1	393-4006	1	GASKET						



GRAPHIC #1

<END>

g03737410

BASIC ENGINE

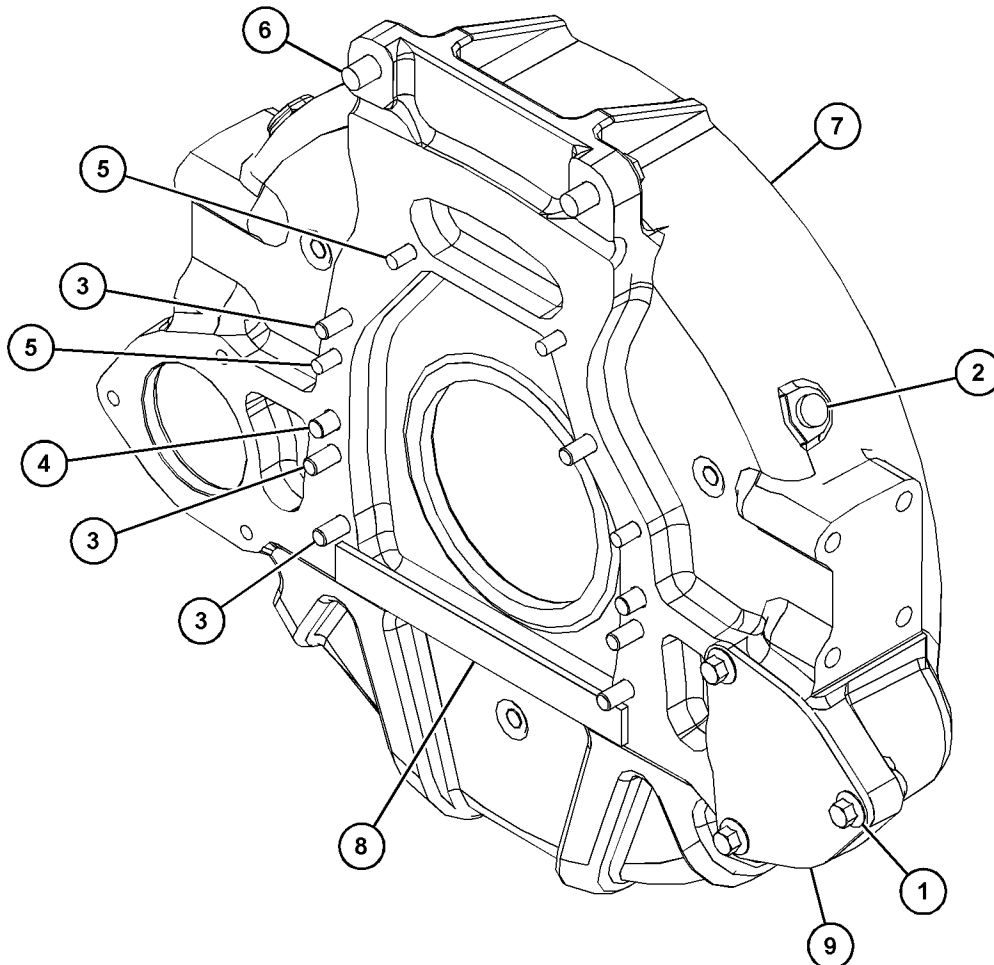
437-2721 HOUSING GP-FLYWHEEL RHS STARTER

SMCS-1157

i06105225

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	102-9941	3	BOLT (M12X1.75X25-MM)						
	2	1	277-0121	1	PLUG						
	3	1	283-4662	6	BOLT-FLANGE HEAD						
	4	1	287-8597	2	DOWEL						
	5	1	288-6974	4	BOLT						
	6	1	288-6975	2	BOLT (M16X2X40-MM)						
	7	1	351-7182	1	HOUSING-FLYWHEEL						
	8	1	393-4006	1	GASKET						
	9	1	277-0122	1	COVER						

M - METRIC PART



GRAPHIC #1

<END>

g03811670

BASIC ENGINE

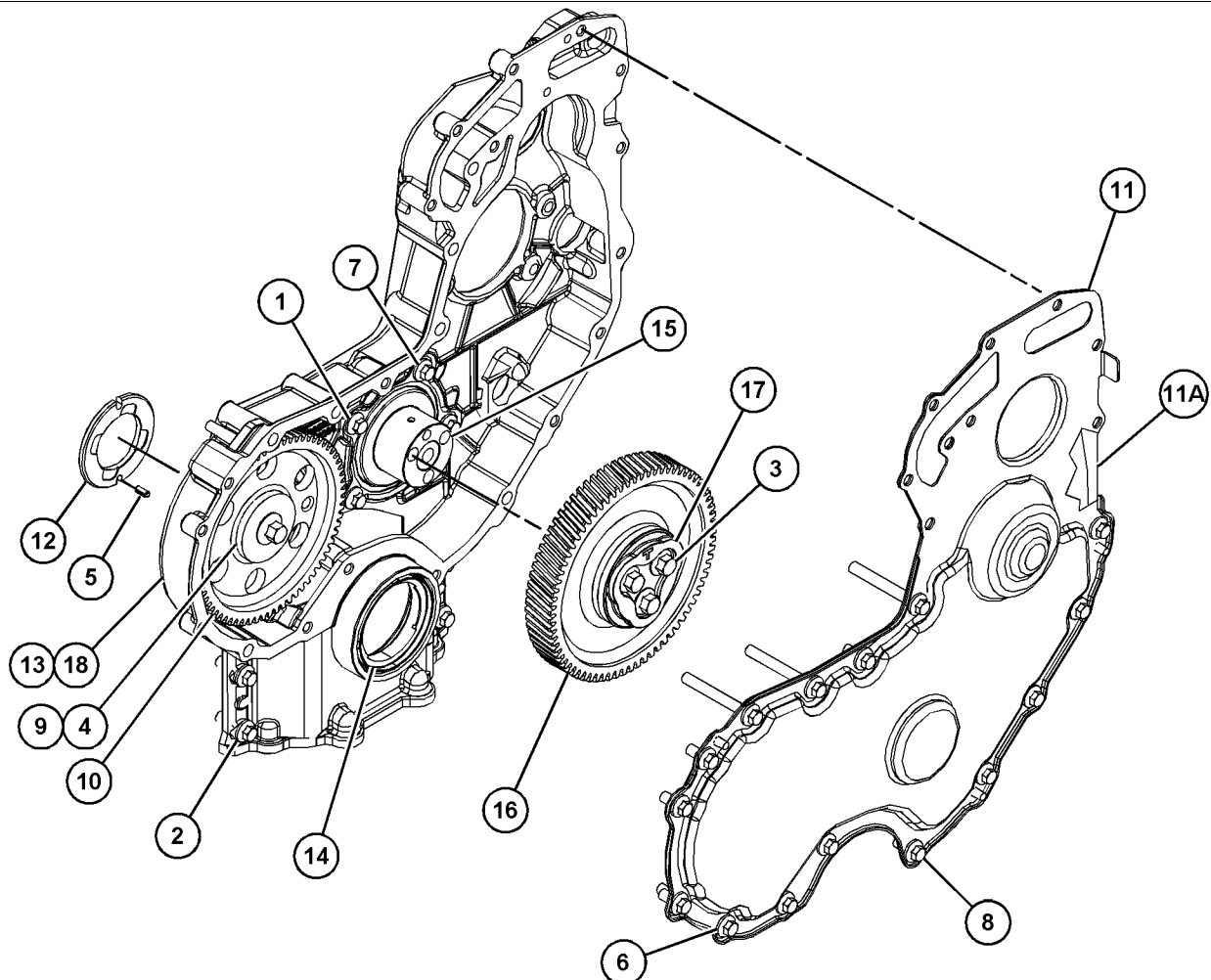
371-2716 HOUSING GP-FRONT

SMCS-1151, 1162, 1206

i05723790

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0217	6	BOLT (M8X1.25X20-MM)						
M	2	1	6I-0645	4	BOLT (M8X1.25X25-MM)						
M	3	1	6I-0650	3	BOLT (M10X1.5X65-MM)						
	4	1	7C-4616	1	BOLT (M12X1.75X45-MM)						
	5	1	067-6179	1	DOWEL						
M	6	1	100-3751	5	BOLT (M8X1.25X65-MM)						
M	7	1	101-3895	2	BOLT (M8X1.25X35-MM)						
M	8	1	124-3815	10	BOLT (M8X1.25X16-MM)						
	9	1	133-1011	1	WASHER						
	10	1	216-8634	1	GEAR-CAMSHAFT (68-TEETH)						
	11	1	232-3657	1	COVER AS-FRONT						
	11A	1	225-8287	1	GASKET						
	12	1	232-3666	1	WASHER-THRUST						
	13	1	277-3012	1	GASKET-COVER						
	14	1	277-3013	1	SEAL						
	15	1	324-0444	1	HUB-IDLER GEAR						
	16	1	346-0407	1	GEAR-IDLER						
	17	1	346-0408	1	PLATE						
	18	1	386-2112	1	CASE-GEAR						

M - METRIC PART



GRAPHIC #1

<END>

g03483004

BASIC ENGINE

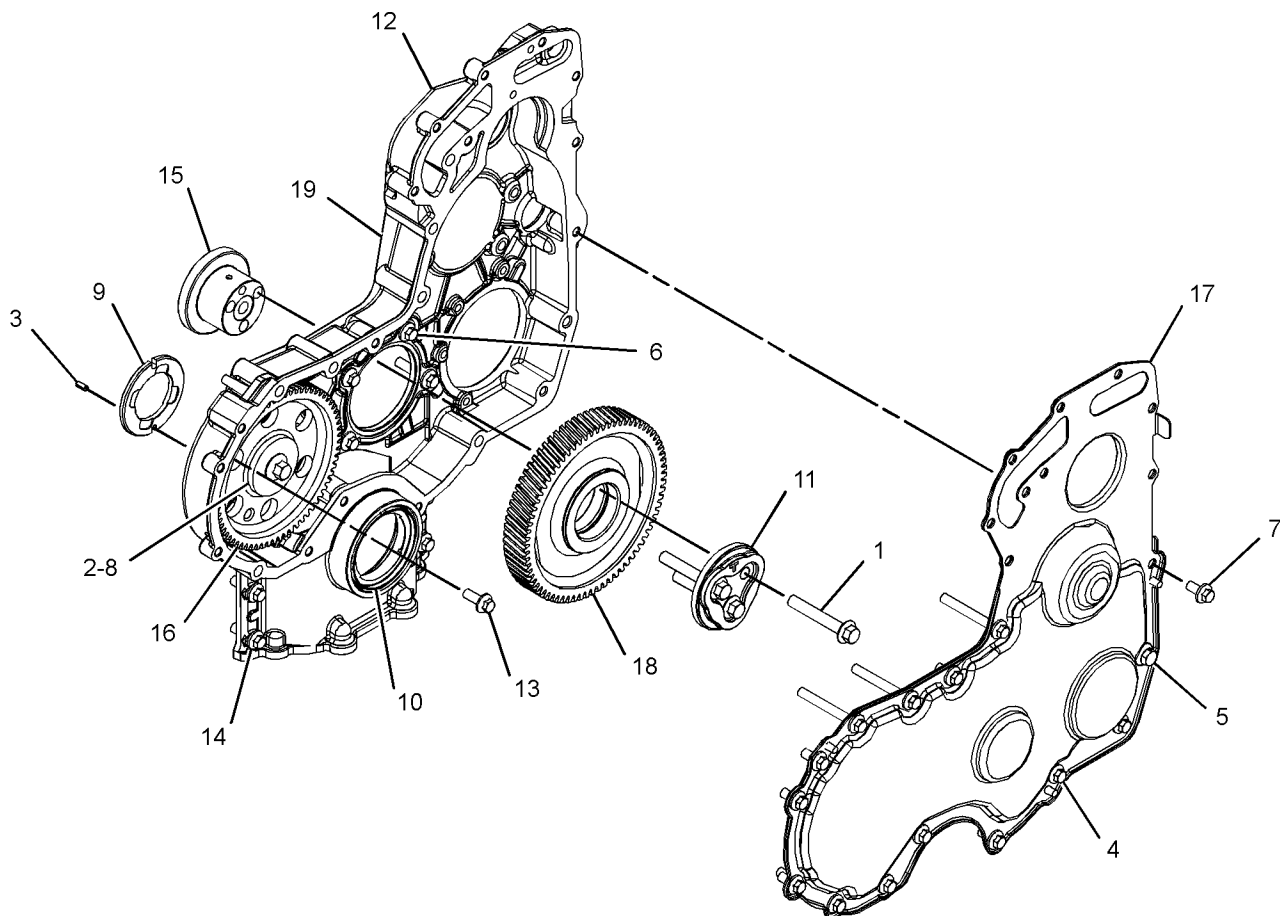
371-2725 HOUSING GP-FRONT

SMCS-1151, 1162, 1206

i05709610

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0650	3	BOLT (M10X1.5X65-MM)						
	2	1	7C-4616	1	BOLT (M12X1.75X45-MM)						
	3	1	067-6179	1	DOWEL						
M	4	1	100-3751	5	BOLT (M8X1.25X65-MM)						
M	5	1	100-4830	1	BOLT (M10X1.5X20-MM)						
M	6	1	101-3895	2	BOLT (M8X1.25X35-MM)						
M	7	1	124-3815	9	BOLT (M8X1.25X16-MM)						
	8	1	133-1011	1	WASHER						
	9	1	232-3666	1	WASHER-THRUST						
	10	1	277-3013	1	SEAL						
	11	1	346-0408	1	PLATE						
	12	1	443-9076	1	CASE-GEAR						
M	13	1	6I-0217	6	BOLT (M8X1.25X20-MM)						
M	14	1	6I-0645	4	BOLT (M8X1.25X25-MM)						
	15	1	324-0444	1	HUB-IDLER GEAR						
	16	1	216-8634	1	GEAR-CAMSHAFT (68-TEETH)						
	17	1	226-8767	1	COVER AS-FRONT						
		1	226-8766	1	GASKET-COVER						
	18	1	251-4336	1	GEAR AS-IDLER (73-TEETH)						
	19	1	277-3012	1	GASKET-COVER						

M - METRIC PART



GRAPHIC #1

<END>

g03378599

BASIC ENGINE

375-4606 HOUSING GP-FRONT

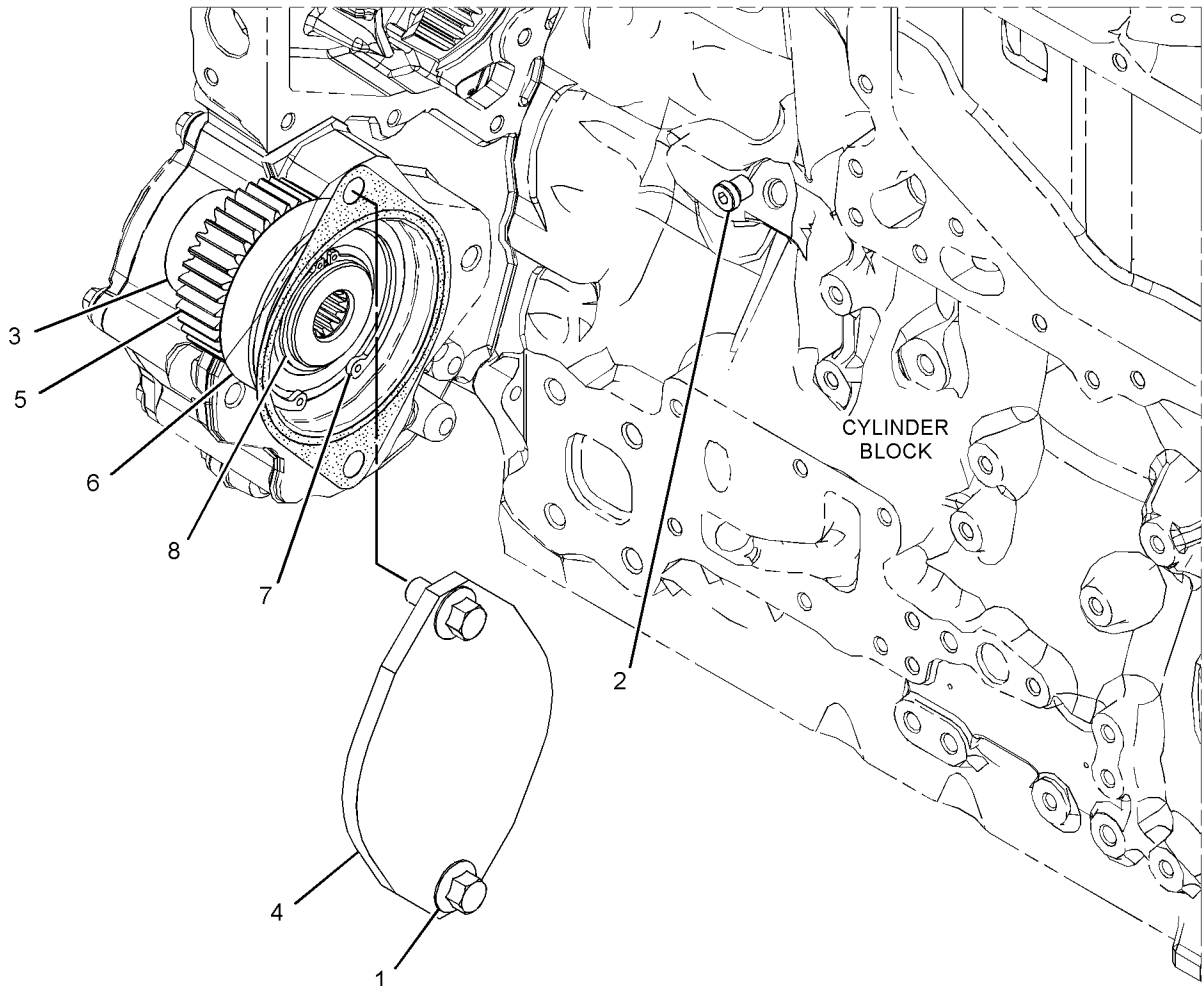
PTO

SMCS-1151, 1162, 1206

i05752989

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	102-9941	2	BOLT (M12X1.75X25-MM)						
	2	1	277-4223	1	PLUG						
	3	1	291-6526	1	BEARING-NEEDLE						
	4	1	369-6810	1	COVER GP						
	5	1	293-9737	1	GEAR (34-TEETH)						
	6	1	302-6780	1	BALL BEARING						
	7	1	291-6529	1	CLIP						
	8	1	291-6528	1	CLIP						

M - METRIC PART



GRAPHIC #1

<END>

g03670492

BASIC ENGINE

375-4645 HOUSING GP-FRONT

HD LHS PTO 280NM

SMCS-1151, 1162, 1206

i05726735

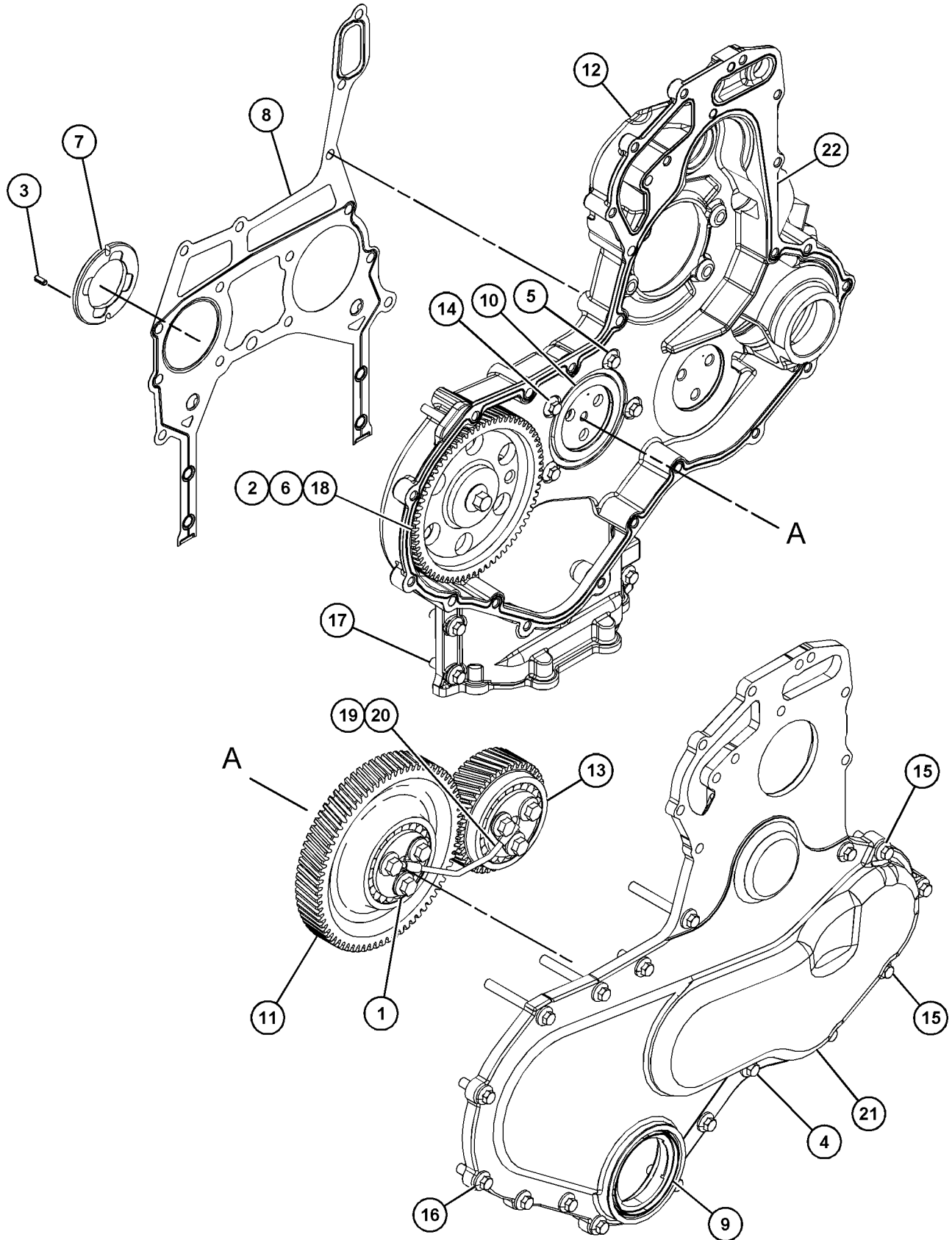
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0454	6	BOLT (M10X1.5X70-MM)						
	2	1	7C-4616	1	BOLT (M12X1.75X45-MM)						
	3	1	067-6179	1	DOWEL						
M	4	1	100-3751	5	BOLT (M8X1.25X65-MM)						
M	5	1	101-3895	2	BOLT (M8X1.25X35-MM)						
	6	1	133-1011	1	WASHER						
	7	1	232-3666	1	WASHER-THRUST						
	8	1	277-3012	1	GASKET-COVER						
	9	1	277-3013	1	SEAL						
	10	1	291-6517	1	PLATE						
	11	1	381-9252	1	GEAR-IDLER (73-TEETH)						
	12	1	416-1234	1	CASE-GEAR						
	13	1	418-7684	1	GEAR-IDLER (44-TEETH)						
M	14	1	6I-0217	6	BOLT (M8X1.25X20-MM)						
M	15	1	6I-0254	3	BOLT (M8X1.25X30-MM)						
M	16	1	6I-0260	9	BOLT (M8X1.25X25-MM)						
M	17	1	6I-0645	4	BOLT (M8X1.25X25-MM)						
	18	1	216-8634	1	GEAR-CAMSHAFT (68-TEETH)						
	19	1	291-6521	1	TUBE						
	20	1	291-6522	2	CLIP						
	21	1	291-6523	1	COVER-FRONT						
	22	1	291-6524	1	GASKET						

M - METRIC PART

BASIC ENGINE

375-4645 HOUSING GP-FRONT (contd.)

i05726735



GRAPHIC #1

<END>

g03664565

BASIC ENGINE

375-5838 HOUSING GP-FRONT

SMCS-1151, 1162, 1206

i05784316

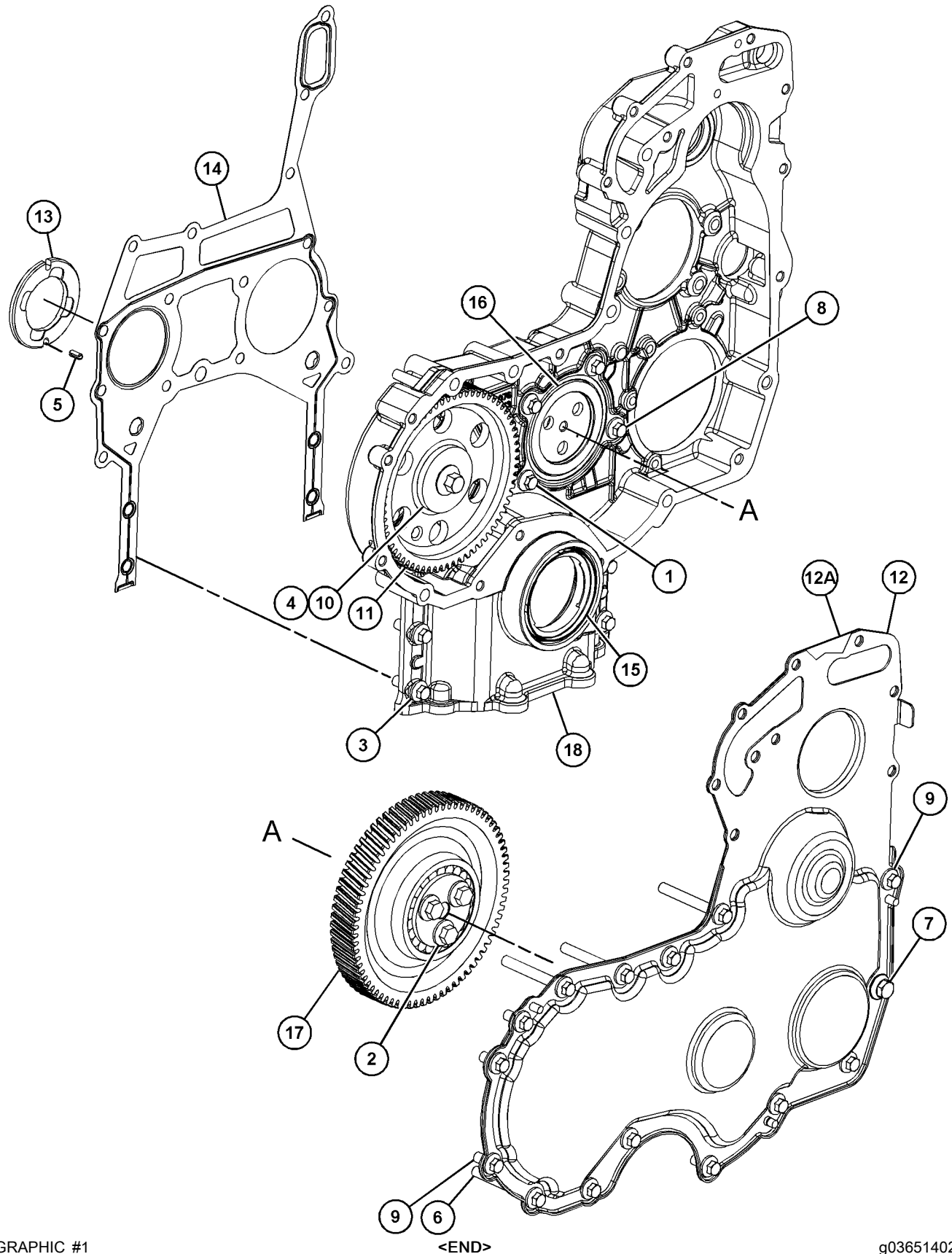
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0217	6	BOLT (M8X1.25X20-MM)						
M	2	1	6I-0454	3	BOLT (M10X1.5X70-MM)						
M	3	1	6I-0645	4	BOLT (M8X1.25X25-MM)						
	4	1	7C-4616	1	BOLT (M12X1.75X45-MM)						
	5	1	067-6179	1	DOWEL						
M	6	1	100-3751	5	BOLT (M8X1.25X65-MM)						
M	7	1	100-4830	1	BOLT (M10X1.5X20-MM)						
M	8	1	101-3895	2	BOLT (M8X1.25X35-MM)						
M	9	1	124-3815	9	BOLT (M8X1.25X16-MM)						
	10	1	133-1011	1	WASHER						
	11	1	216-8634	1	GEAR-CAMSHAFT (68-TEETH)						
	12	1	226-8767	1	COVER AS-FRONT						
	12A	1	226-8766	1	GASKET-COVER						
	13	1	232-3666	1	WASHER-THRUST						
	14	1	277-3012	1	GASKET-COVER						
	15	1	277-3013	1	SEAL						
	16	1	291-6517	1	PLATE						
	17	1	359-9431	1	GEAR-IDLER						
	18	1	443-9076	1	CASE-GEAR						

M - METRIC PART

BASIC ENGINE

375-5838 HOUSING GP-FRONT (contd.)

i05784316



GRAPHIC #1

<END>

g03651402

BASIC ENGINE

378-0630 HOUSING GP-FRONT

PTO

SMCS-1151, 1162, 1206

i05933142

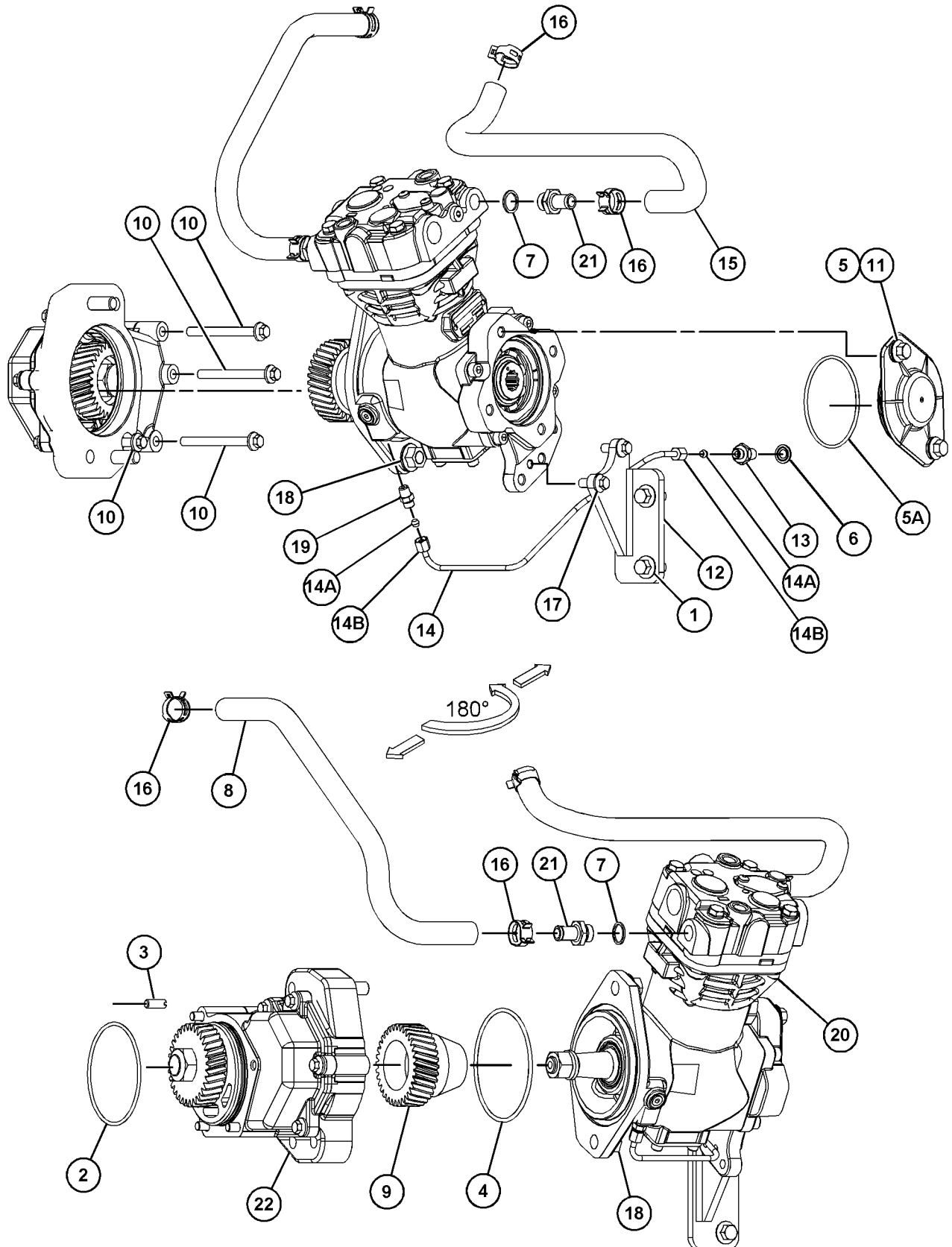
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-0302	2	BOLT (M10X1.5X25-MM)						
	2	1	102-2073	1	SEAL-O-RING						
	3	1	113-8076	1	PIN						
	4	1	126-3219	1	SEAL-O-RING						
	5	1	198-8262	1	COVER AS						
	5A	1	198-8263	1	SEAL-O-RING						
	6	1	214-3203	1	WASHER (SEALING)						
	7	1	247-4928	2	WASHER (16.5X20.5X1.6-MM THK)						
	8	1	259-2611	1	HOSE						
	9	1	259-2623	1	GEAR (34-TEETH)						
	10	1	273-3691	4	BOLT						
	11	1	293-1875	2	BOLT						
	12	1	293-1876	1	BRACKET						
	13	1	293-1878	1	CONNECTION						
	14	1	321-6120	1	LINES GP-FUEL INJECTION						
	14A	1	067-6265	2	FITTING-BRASS						
	14B	1	365-3308	2	NUT-COMPRESSION						
	15	1	259-2612	1	HOSE						
	16	1	331-6129	4	CLAMP						
M	17	1	6I-0217	2	BOLT (M8X1.25X20-MM)						
M	18	1	184-0983	2	NUT-HEX FLANGE (M12X1.75-THD)						
	19	1	035-8017	1	UNION						
	20	1	451-1179	1	COMPRESSOR						
	21	1	209-6825	2	ADAPTER						
	22	1	293-1877	1	ADAPTER						

M - METRIC PART

BASIC ENGINE

378-0630 HOUSING GP - FRONT (contd.)

i05933142



GRAPHIC #1

<END>

g03732312

BASIC ENGINE

378-0632 HOUSING GP-FRONT

SMCS-1151, 1162, 1206

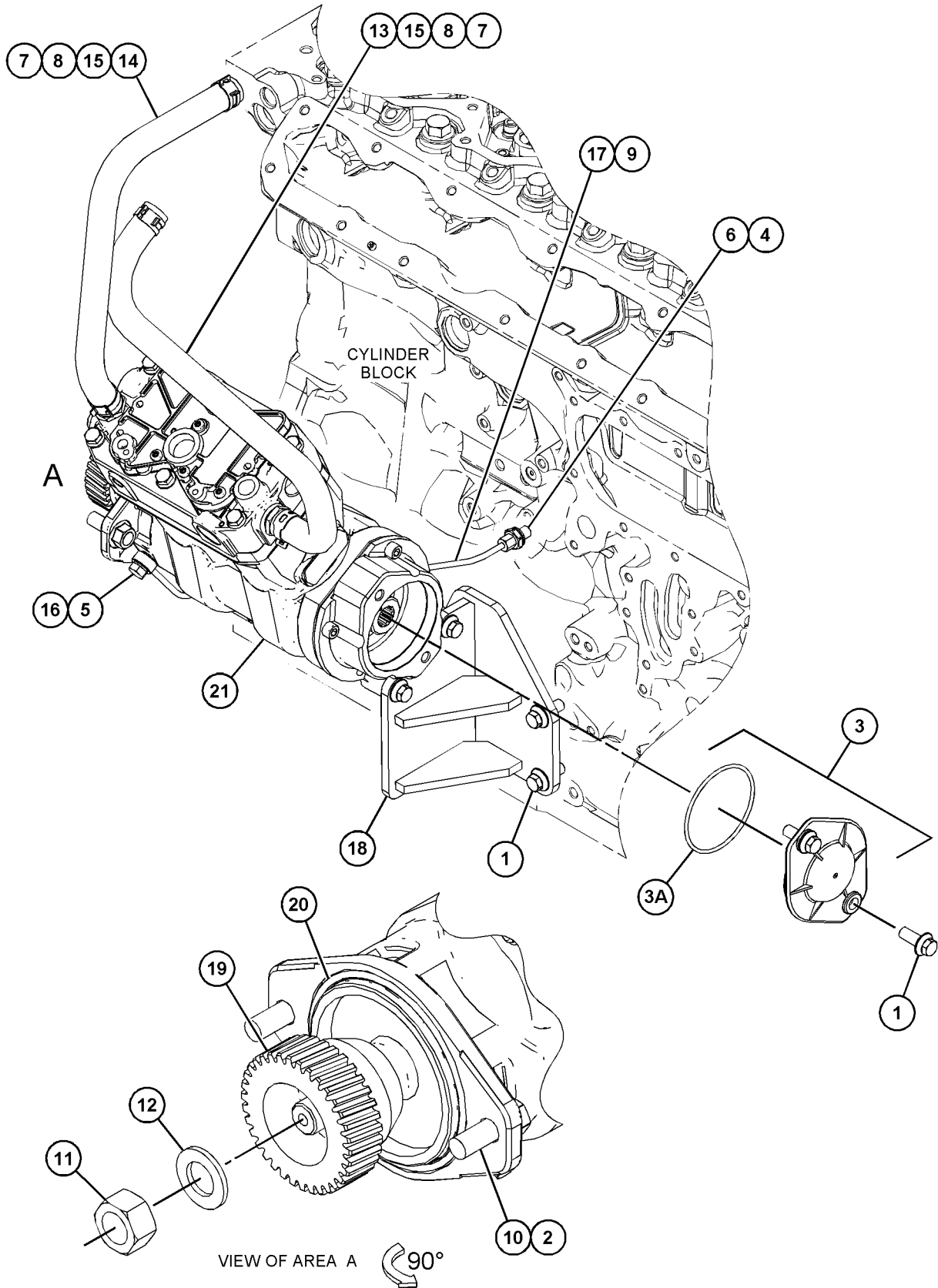
i05906484

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0654	8	BOLT (M10X1.5X25-MM)						
	2	1	195-2221	2	NUT (M12X1.75-THD)						
	3	1	198-8262	1	COVER AS						
	3A	1	198-8263	1	SEAL-O-RING						
	4	1	214-3203	1	WASHER (SEALING)						
	5	1	225-8524	1	BOLT-SPECIAL (BANJO)						
	6	1	293-1878	1	CONNECTION						
	7	1	293-4776	2	WASHER						
	8	1	294-9392	2	ADAPTER						
	9	1	294-9396	1	CLIP						
	10	1	317-6232	2	STUD						
	11	1	320-8384	1	NUT						
	12	1	320-8385	1	WASHER						
	13	1	375-9812	1	HOSE						
	14	1	375-9813	1	HOSE						
	15	1	381-5651	4	CLIP						
	16	1	246-4361	2	WASHER (10.5X14X1.5-MM THK)						
	17	1	296-1258	1	PIPE AS-OIL FEED						
	18	1	317-6163	1	BRACKET						
	19	1	320-8383	1	GEAR						
	20	1	321-5576	1	SEAL-O-RING						
	21	1	386-3798	1	COMPRESSOR-AIR						
M - METRIC PART											

BASIC ENGINE

378-0632 HOUSING GP-FRONT (contd.)

i05906484



GRAPHIC #1

<END>

g03739292

BASIC ENGINE

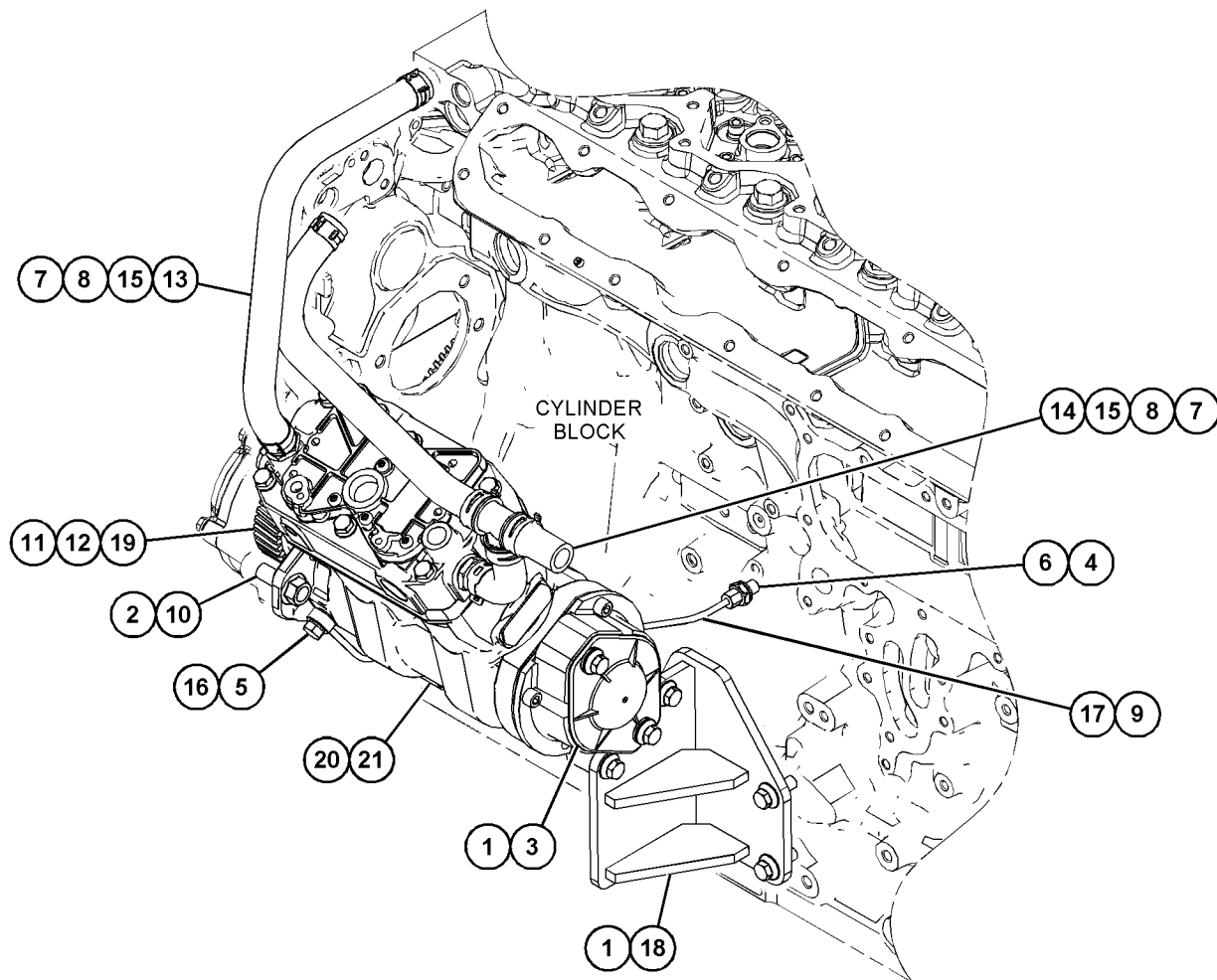
448-2107 HOUSING GP-FRONT

SMCS-1151, 1162, 1206

i05934119

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	61-0654	8	BOLT (M10X1.5X25-MM)						
	2	1	195-2221	2	NUT (M12X1.75-THD)						
	3	1	198-8262	1	COVER AS						
		1	198-8263	1	SEAL-O-RING						
	4	1	214-3203	1	WASHER (SEALING)						
	5	1	225-8524	1	BOLT-SPECIAL (BANJO)						
	6	1	293-1878	1	CONNECTION						
	7	1	293-4776	2	WASHER						
	8	1	294-9392	2	ADAPTER						
	9	1	294-9396	1	CLIP						
	10	1	317-6232	2	STUD						
	11	1	320-8384	1	NUT						
	12	1	320-8385	1	WASHER						
	13	1	375-9813	1	HOSE						
	14	1	375-9814	1	HOSE AS						
	15	1	381-5651	4	CLIP						
	16	1	246-4361	2	WASHER (10.5X14X1.5-MM THK)						
	17	1	296-1258	1	PIPE AS-OIL FEED						
		1	365-3308	1	NUT-COMPRESSION						
	18	1	317-6163	1	BRACKET						
	19	1	320-8383	1	GEAR						
	20	1	321-5576	1	SEAL-O-RING						
	21	1	386-3798	1	COMPRESSOR-AIR						

M - METRIC PART



GRAPHIC #1

<END>

g03787960

BASIC ENGINE

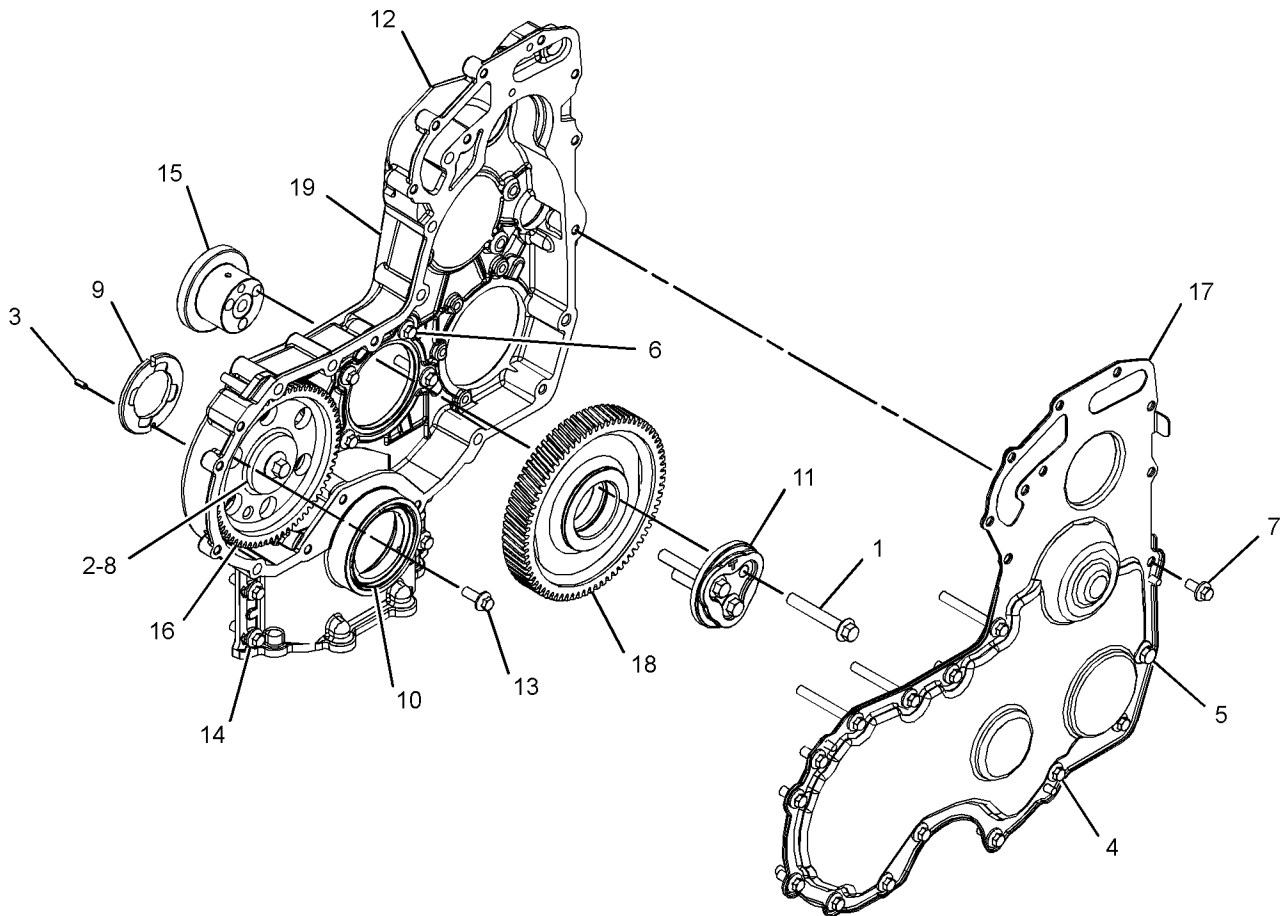
448-9719 HOUSING GP-FRONT

SMCS-1151, 1162, 1206

i06006131

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0650	3	BOLT (M10X1.5X65-MM)						
	2	1	7C-4616	1	BOLT (M12X1.75X45-MM)						
	3	1	067-6179	1	DOWEL						
M	4	1	100-3751	5	BOLT (M8X1.25X65-MM)						
	5	1	273-3690	1	BOLT						
M	6	1	101-3895	2	BOLT (M8X1.25X35-MM)						
M	7	1	124-3815	9	BOLT (M8X1.25X16-MM)						
	8	1	133-1011	1	WASHER						
	9	1	232-3666	1	WASHER-THRUST						
	10	1	277-3013	1	SEAL						
	11	1	346-0408	1	PLATE						
	12	1	443-9076	1	CASE-GEAR						
M	13	1	6I-0217	6	BOLT (M8X1.25X20-MM)						
M	14	1	6I-0645	4	BOLT (M8X1.25X25-MM)						
	15	1	324-0444	1	HUB-IDLER GEAR						
	16	1	216-8634	1	GEAR-CAMSHAFT (68-TEETH)						
	17	1	226-8767	1	COVER AS-FRONT						
		1	226-8766	1	GASKET-COVER						
	18	1	251-4336	1	GEAR AS-IDLER (73-TEETH)						
	19	1	277-3012	1	GASKET-COVER						

M - METRIC PART



GRAPHIC #1

<END>

g03378599

BASIC ENGINE

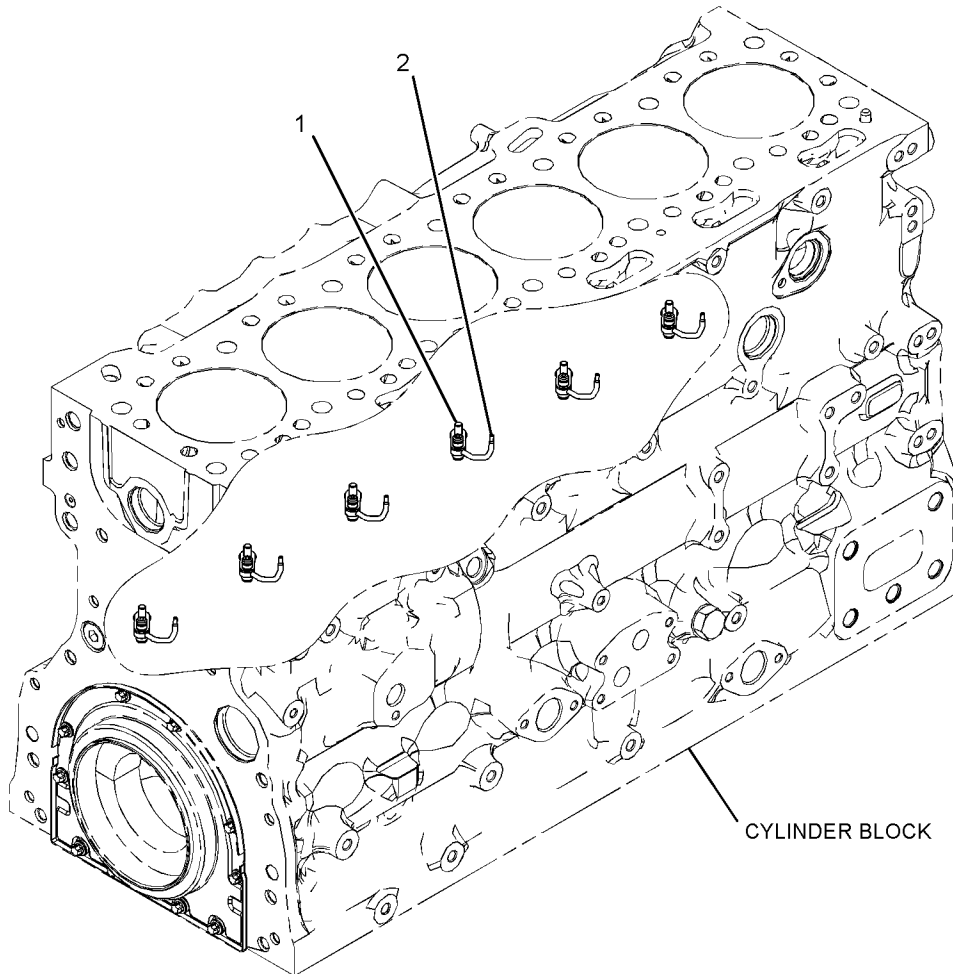
371-2478 JET GP-PISTON COOLING

PART OF 451-1222 CYLINDER BLOCK GP-SHORT

SMCS-1331

i05723748

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	100-4841	6	BOLT (M6X1X10-MM)						
	2	1	329-3796	6	TUBE AS-OIL JET						
M - METRIC PART											



GRAPHIC #1

<END>

g03378569

BASIC ENGINE

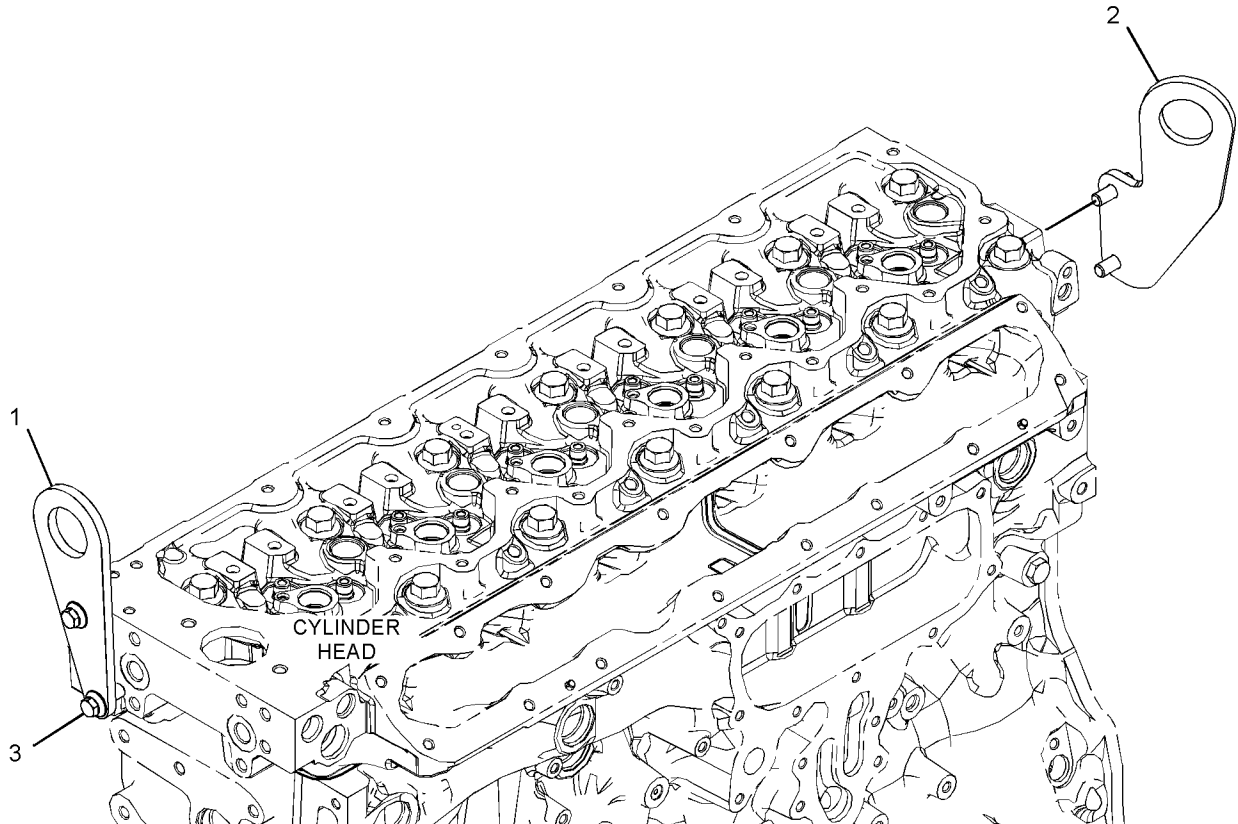
371-2735 LIFTING GP-ENGINE

SMCS-1122

i05723739

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	279-9651	1	PLATE-LIFTING						
	2	1	279-9652	1	PLATE-LIFTING						
M	3	1	6I-0654	4	BOLT (M10X1.5X25-MM)						

M - METRIC PART



GRAPHIC #1

<END>

g03098956

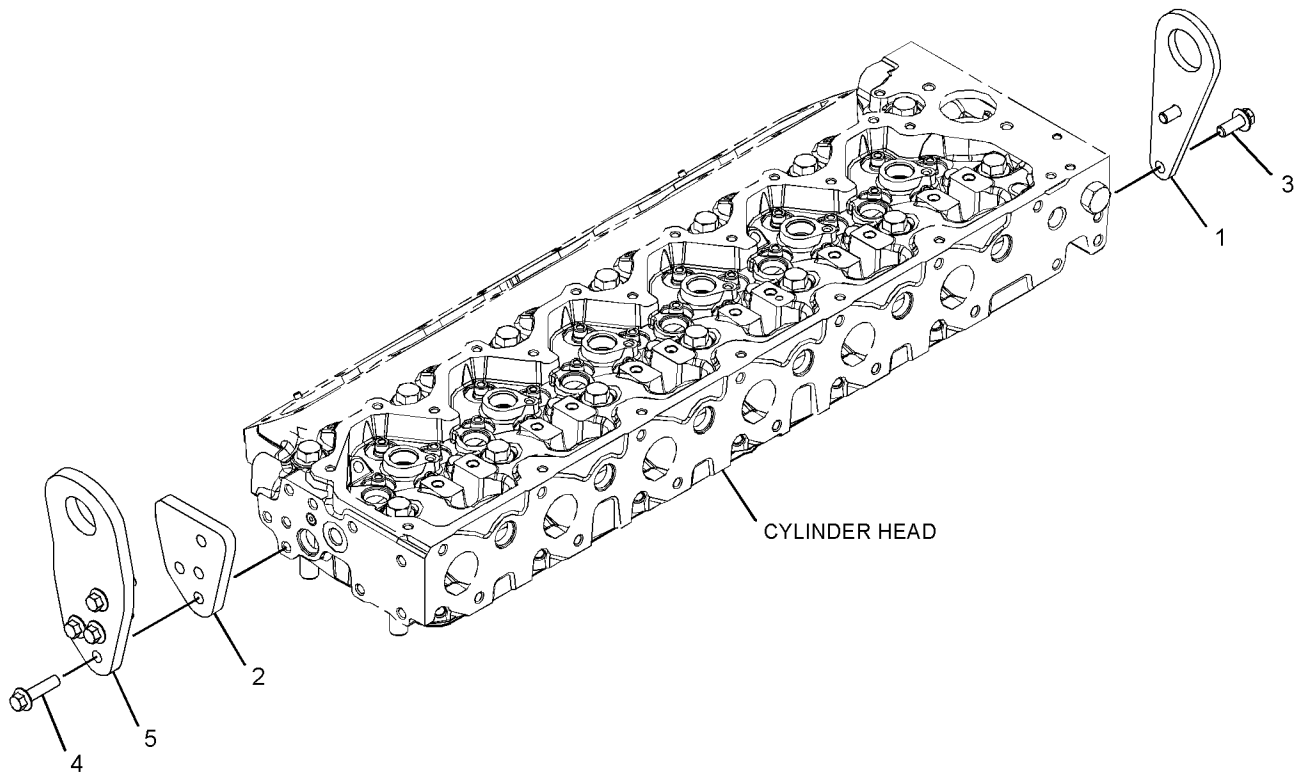
BASIC ENGINE

371-2740 LIFTING GP-ENGINE

SMCS-1122

i05582432

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	279-9651	1	PLATE-LIFTING	
	2	1	304-5062	1	BRACKET	
M	3	1	61-0654	2	BOLT (M10X1.5X25-MM)	
	4	1	123-2899	4	BOLT (M10X1.5X40-MM)	
	5	1	415-1604	1	BRACKET-LIFTING	
M - METRIC PART						



GRAPHIC #1

<END>

g03456846

BASIC ENGINE

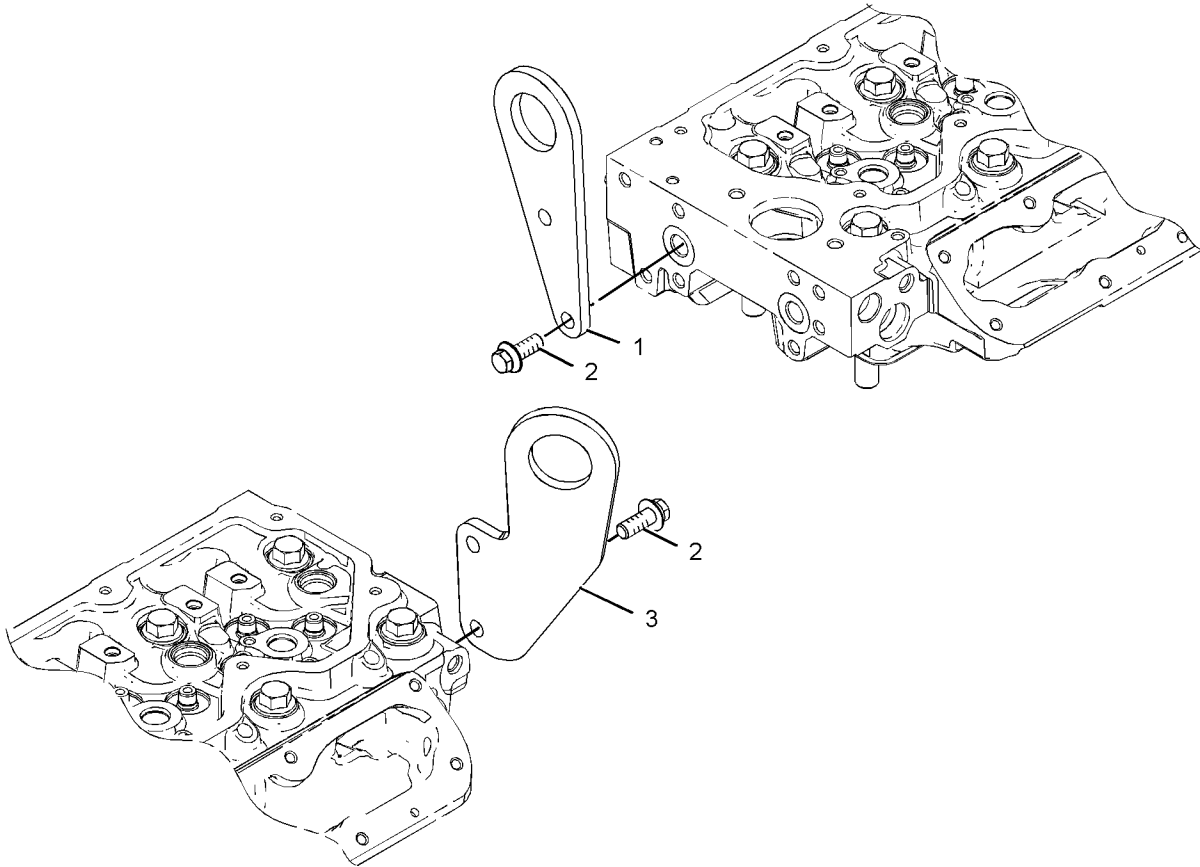
416-2470 LIFTING GP-ENGINE

SMCS-1122

i05581213

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	277-4444	1	PLATE-LIFTING						
M	2	1	6I-0654	4	BOLT (M10X1.5X25-MM)						
	3	1	277-4445	1	PLATE-LIFTING						

M - METRIC PART



GRAPHIC #1

<END>

g01195531

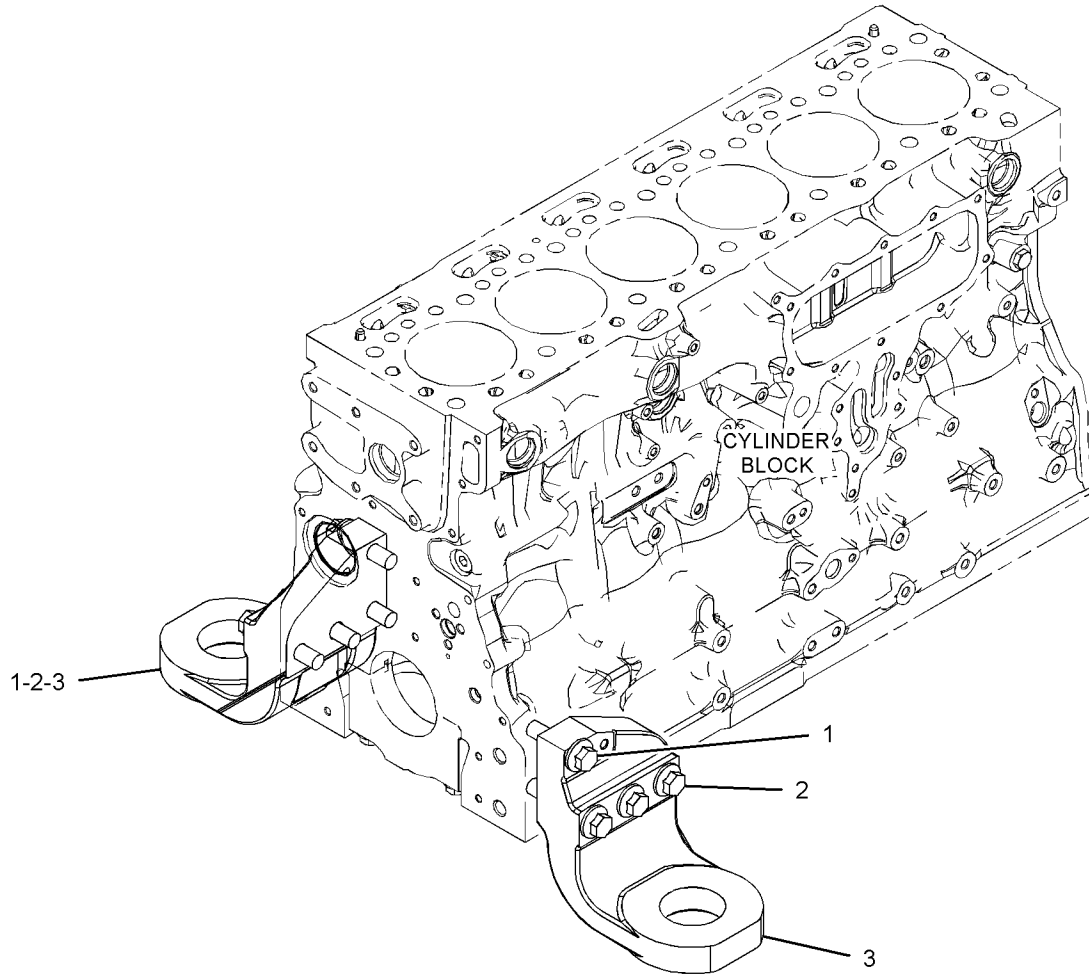
BASIC ENGINE

346-1510 MOUNTING GP-ENGINE

SMCS-1152, 1153, 1154

i05582991

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	283-8301	2	BOLT						
	2	1	283-8302	6	BOLT						
	3	1	277-4490	2	BRACKET-MOUNTING						



GRAPHIC #1

<END>

g03507641

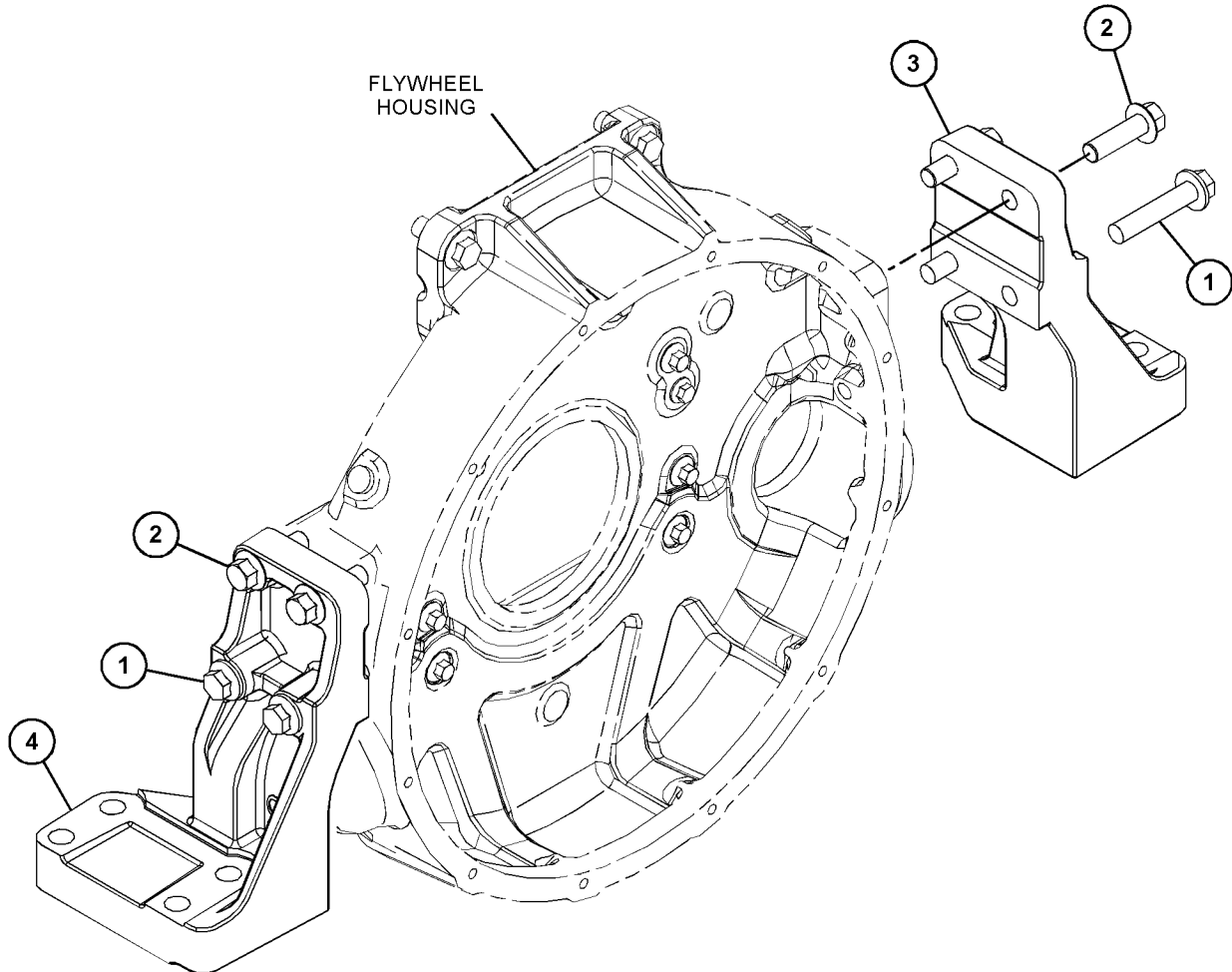
BASIC ENGINE

458-2242 MOUNTING GP-ENGINE

SMCS-1152, 1153, 1154

i05859574

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	283-8302	4	BOLT						
	2	1	360-2903	4	BOLT-FLANGE HEAD						
	3	1	365-5504	1	SUPPORT						
	4	1	365-5505	1	SUPPORT						



GRAPHIC #1

<END>

g03716137

BASIC ENGINE

374-7090 MOUNTING GP-REFRIGERANT COMPR

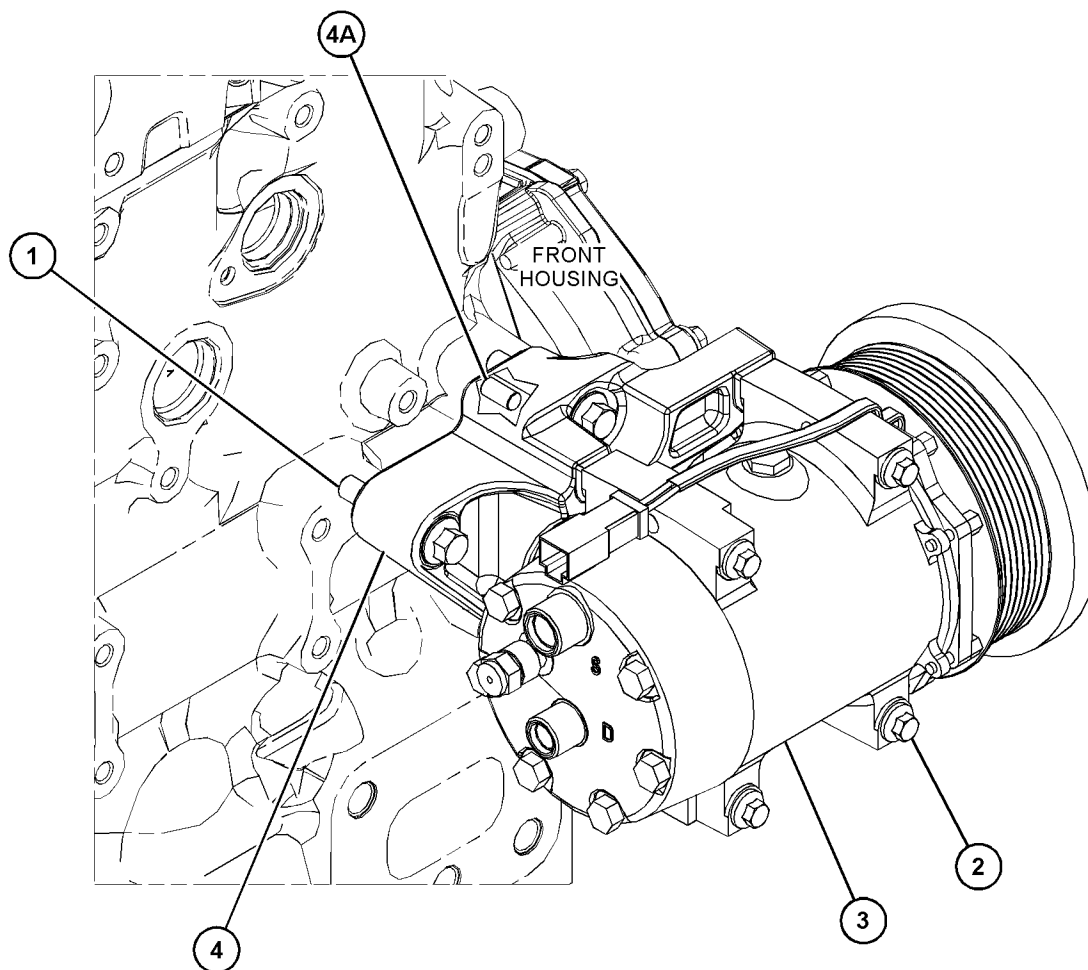
12 VOLT

SMCS-1802

i05727150

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	101-7178	3	BOLT (M10X1.5X55-MM)						
	2	1	127-3361	4	BOLT (M8X1.25X95-MM)						
Y	3	1	178-9570	1	COMPRESSOR GP-REFRIGERANT						44
	4	1	330-1725	1	BRACKET AS						
	4A	1	161-9820	2	PIN						

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03666102

BASIC ENGINE

371-2544 PAN GP-OIL

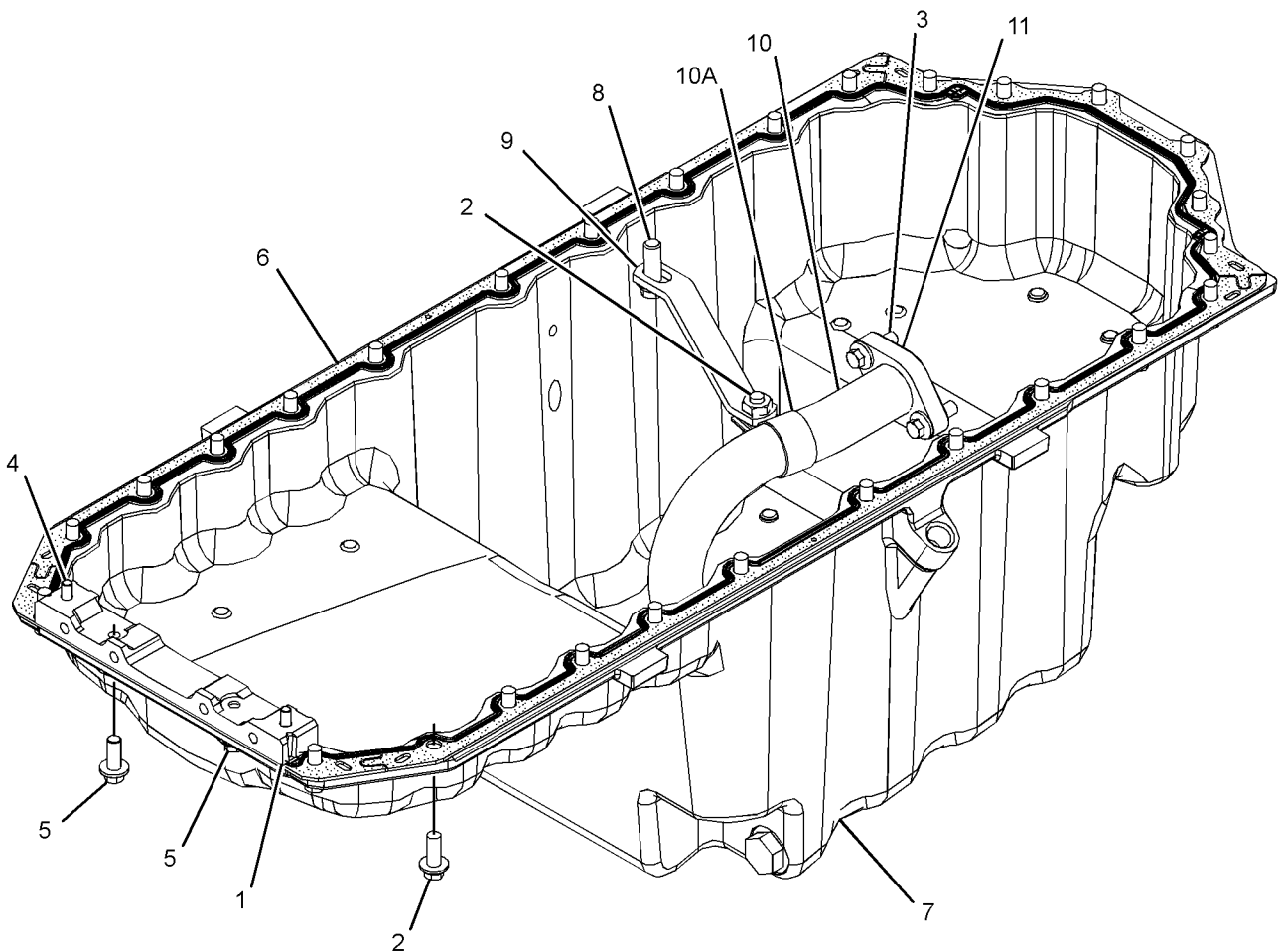
SMCS-1302

i05719290

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	230-8094	1	BRIDGE						
M	2	1	6I-0217	29	BOLT (M8X1.25X20-MM)						
M	3	1	6I-0260	2	BOLT (M8X1.25X25-MM)						
M	4	1	6I-0363	2	BOLT (M6X1X20-MM)						
	5	1	6I-0572	2	BOLT (M8X1.25X20-MM)						
	6	1	351-4749	1	GASKET-OIL PAN						
Y	7	1	377-4718	1	PAN GP-OIL						111
M	8	1	6I-0654	1	BOLT (M10X1.5X25-MM)						
	9	1	275-9897	1	BRACKET						
	10	1	280-1384	1	TUBE AS-OIL SUCTION						
	10A	1	236-5511	1	CLIP-PIPE						
	11	1	6I-4681	1	GASKET						

M - METRIC PART

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03110796

BASIC ENGINE

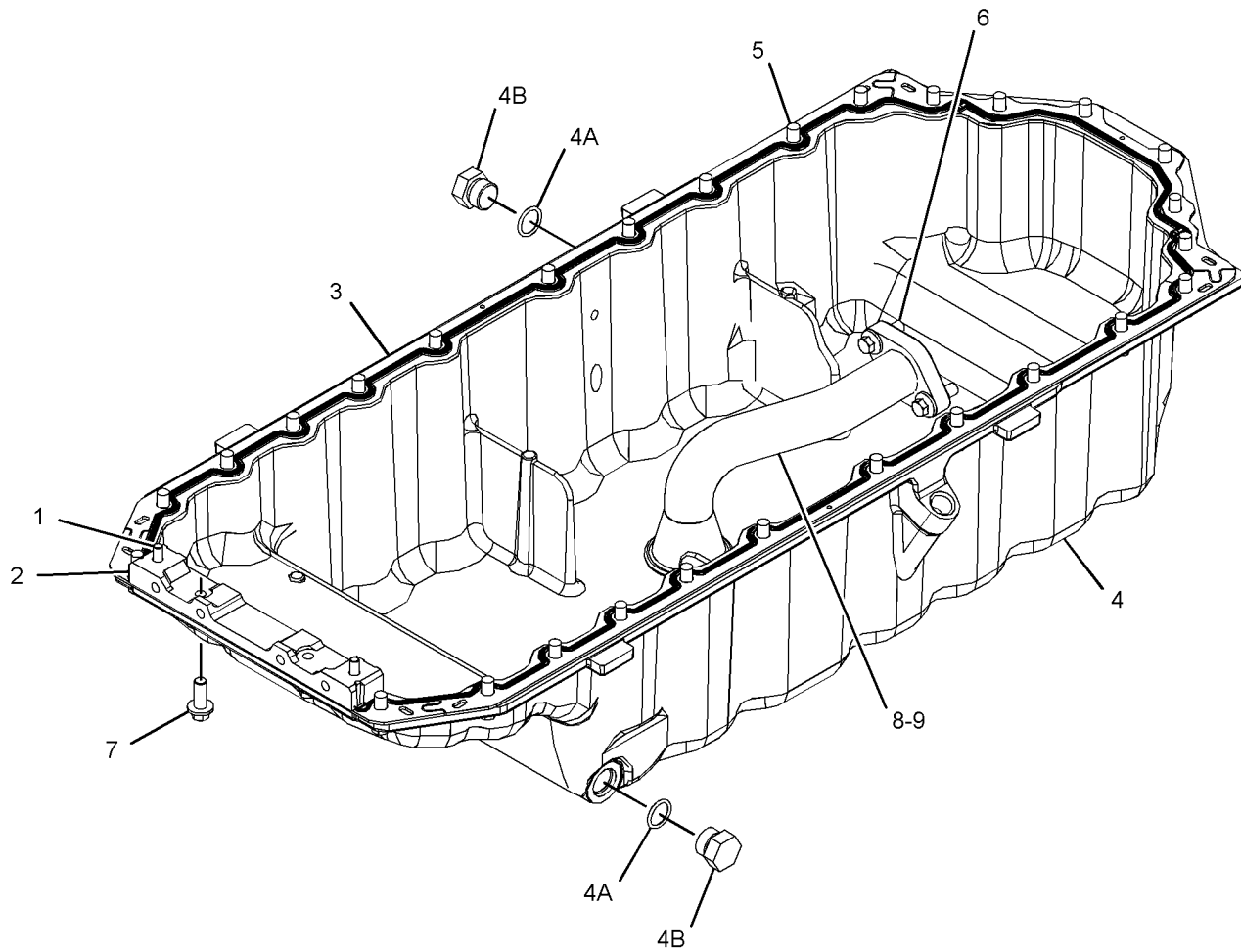
375-4499 PAN GP-OIL

SMCS-1302

i05586690

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0363	2	BOLT (M6X1X20-MM)						
	2	1	230-8094	1	BRIDGE						
	3	1	351-4749	1	GASKET-OIL PAN						
	4	1	354-8538	1	PAN AS-OIL						
	4A	1	8L-2786	2	SEAL-O-RING						
	4B	1	9S-4185	2	PLUG						
M	5	1	6I-0217	28	BOLT (M8X1.25X20-MM)						
M	6	1	6I-0260	2	BOLT (M8X1.25X25-MM)						
M	7	1	6I-0572	2	BOLT (M8X1.25X20-MM)						
	8	1	283-4302	1	TUBE-OIL SUCTION						
	9	1	6I-4681	1	GASKET						

M - METRIC PART



GRAPHIC #1

<END>

g03550002

BASIC ENGINE

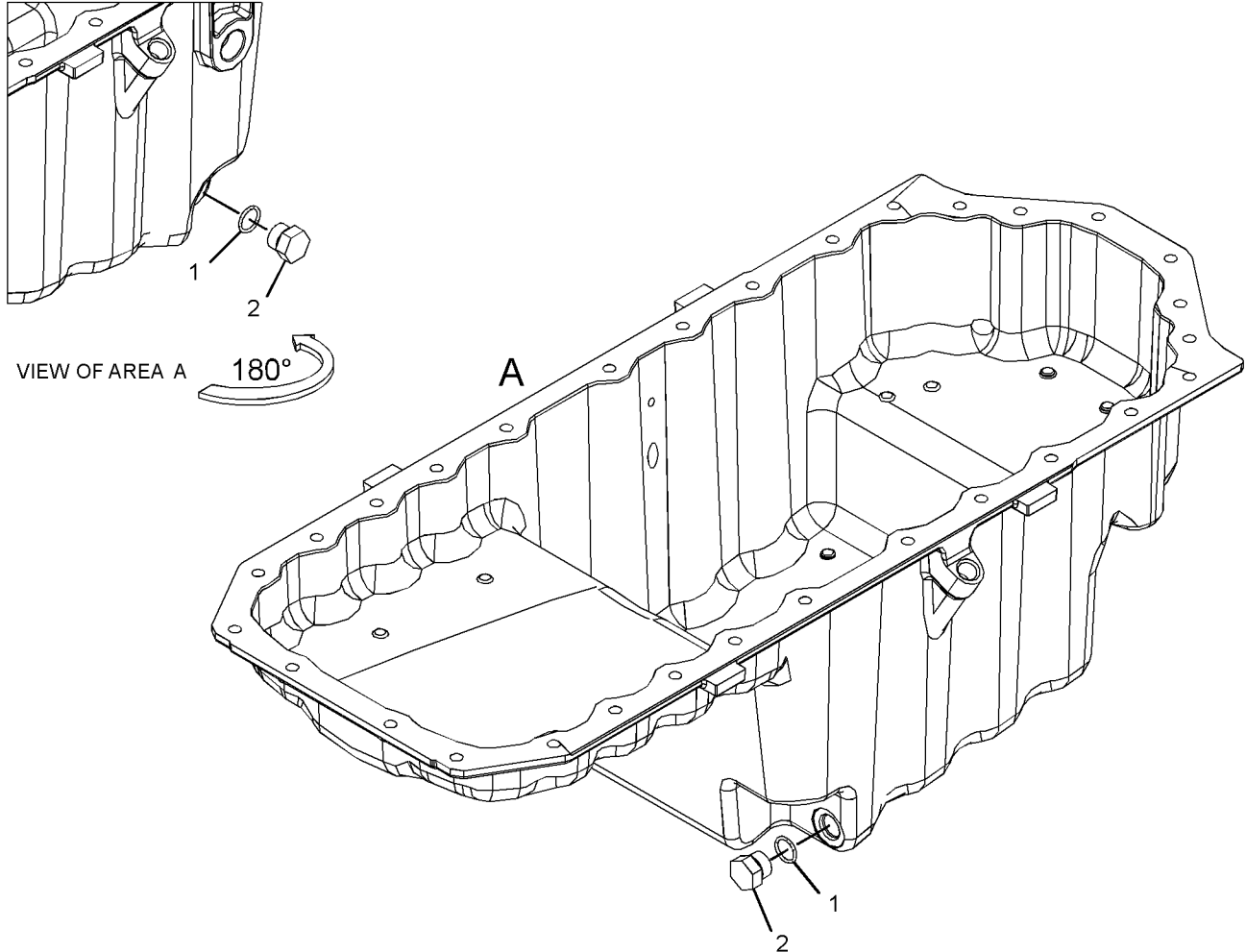
377-4718 PAN GP-OIL

PART OF 371-2544 PAN GP-OIL

SMCS-1302

i05719591

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8L-2786	2	SEAL-O-RING						
	2	1	9S-4185	2	PLUG-O-RING						



GRAPHIC #1

<END>

g03371776

BASIC ENGINE

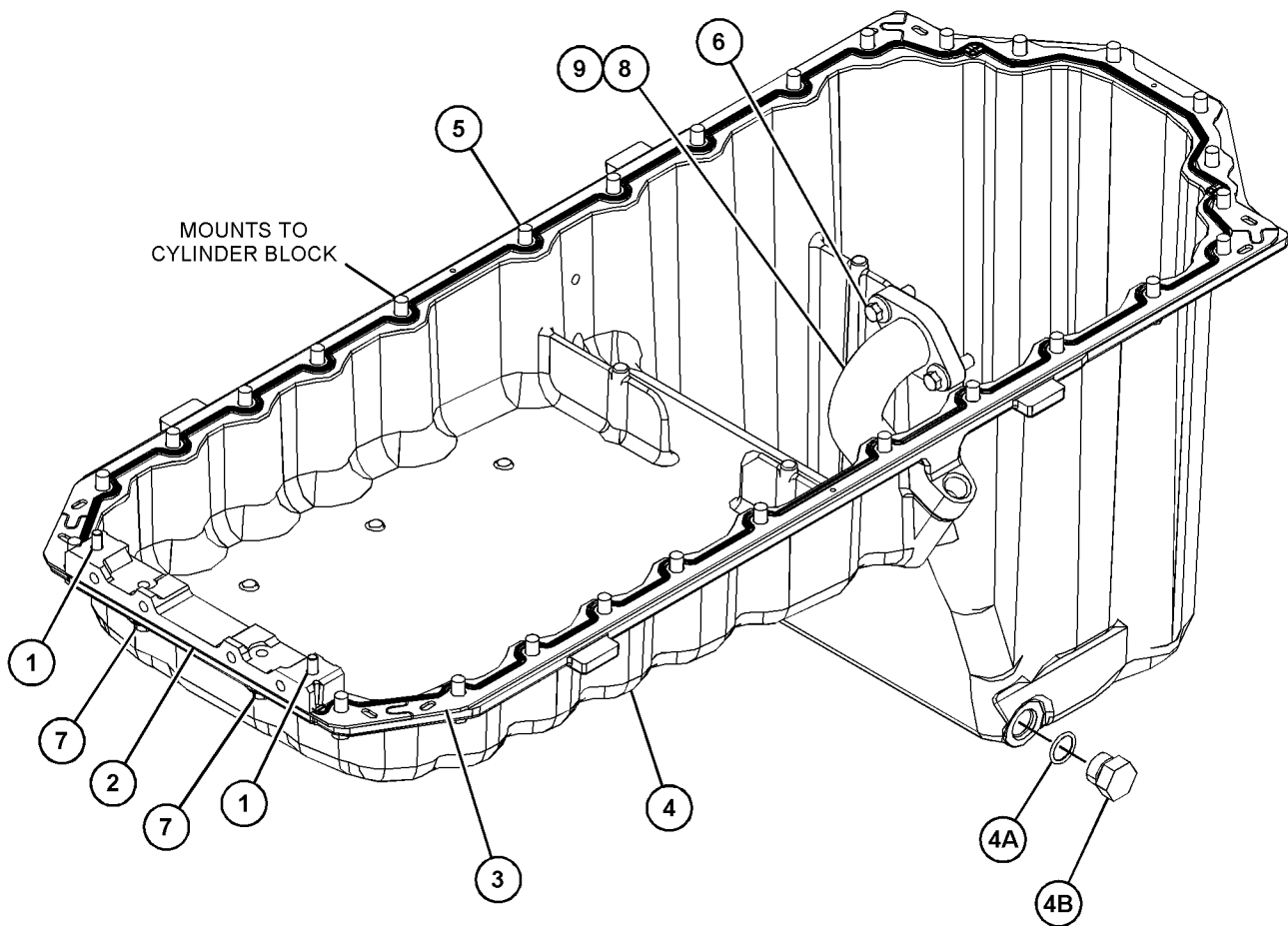
378-0593 PAN GP-OIL

SMCS-1302

i05723808

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0363	2	BOLT (M6X1X20-MM)						
	2	1	230-8094	1	BRIDGE						
	3	1	351-4749	1	GASKET-OIL PAN						
	4	1	366-7721	1	PAN AS-OIL						
	4A	1	8L-2786	2	SEAL-O-RING						
	4B	1	9S-4185	2	PLUG						
M	5	1	6I-0217	28	BOLT (M8X1.25X20-MM)						
M	6	1	6I-0260	2	BOLT (M8X1.25X25-MM)						
M	7	1	6I-0572	2	BOLT (M8X1.25X20-MM)						
	8	1	286-8817	1	TUBE-OIL SUCTION						
	9	1	6I-4681	1	GASKET						

M - METRIC PART



GRAPHIC #1

<END>

g03539340

BASIC ENGINE

378-0594 PAN GP-OIL

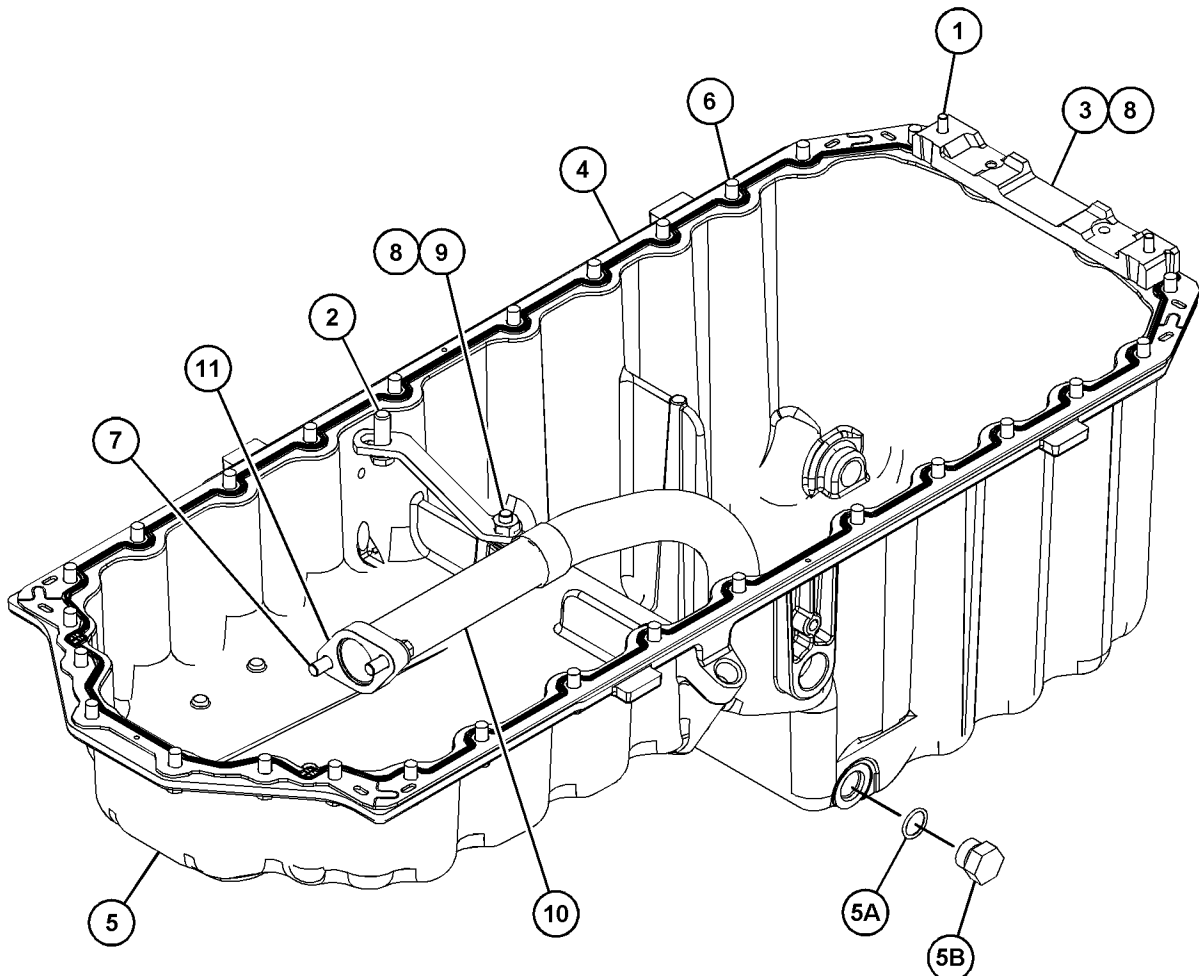
WITHOUT OIL LEVEL SENSOR

SMCS-1302

i05733235

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-0269	2	BOLT-SOCKET HEAD (M6X1X20-MM)						
M	2	1	6I-0654	1	BOLT (M10X1.5X25-MM)						
	3	1	230-8094	1	BRIDGE						
	4	1	351-4749	1	GASKET-OIL PAN						
	5	1	421-1859	1	PAN GP-OIL						
	5A	1	8L-2786	2	SEAL-O-RING						
	5B	1	9S-4185	2	PLUG						
M	6	1	6I-0217	28	BOLT (M8X1.25X20-MM)						
M	7	1	6I-0260	2	BOLT (M8X1.25X25-MM)						
M	8	1	6I-0572	3	BOLT (M8X1.25X20-MM)						
	9	1	275-9897	1	BRACKET						
	10	1	285-2991	1	TUBE AS-OIL SUCTION						
		1	236-5511	1	CLIP-PIPE						
	11	1	6I-4681	1	GASKET						

M - METRIC PART



GRAPHIC #1

<END>

g03650954

BASIC ENGINE

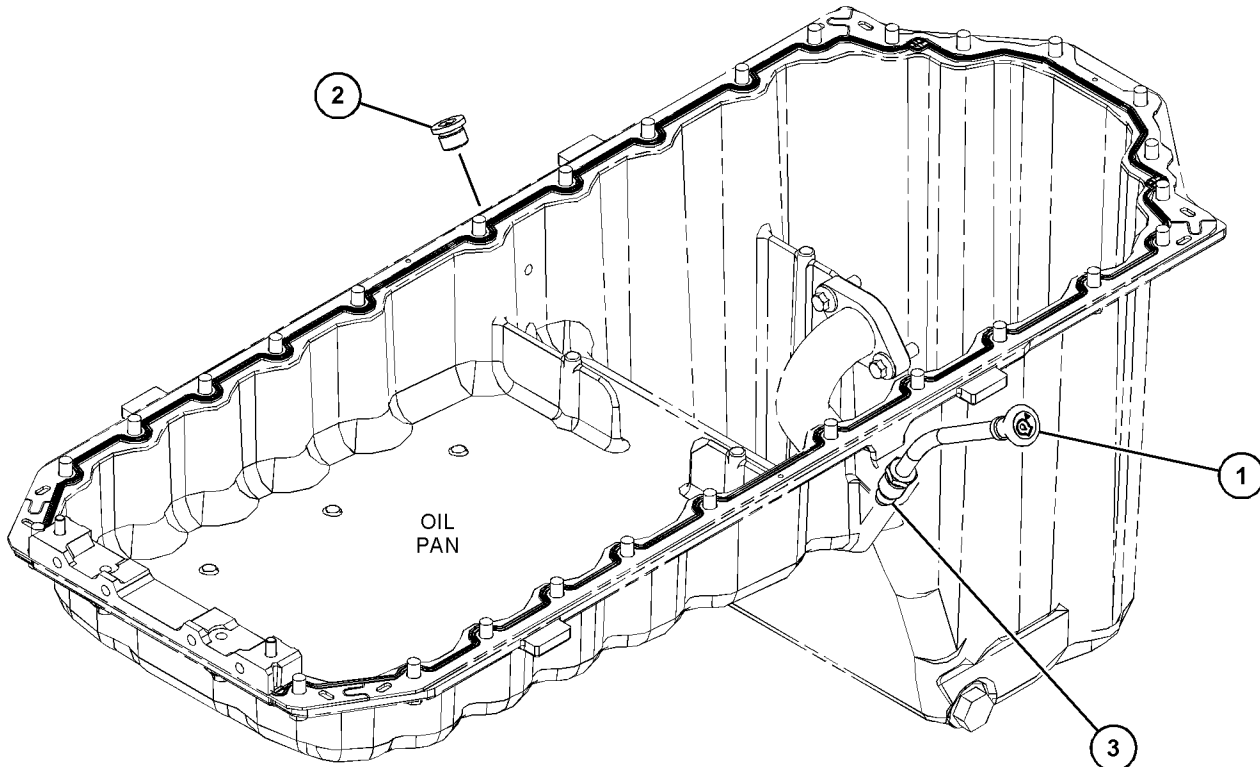
439-3377 PAN GP-OIL

GAUGE

SMCS-1302

i05716453

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	353-2635	1	GAUGE GP-OIL LEVEL (DIPSTICK) (ENGINE)						
		1	275-9891	2	SEAL-O-RING						
		1	228-7089	1	SEAL-O-RING						
2	1		354-8322	1	PLUG						
3	1		6I-1497	1	SEAL						



GRAPHIC #1

<END>

g03650676

BASIC ENGINE

369-7304 PISTON & ROD GP

PART OF 451-1222 CYLINDER BLOCK GP-SHORT

SMCS-1225

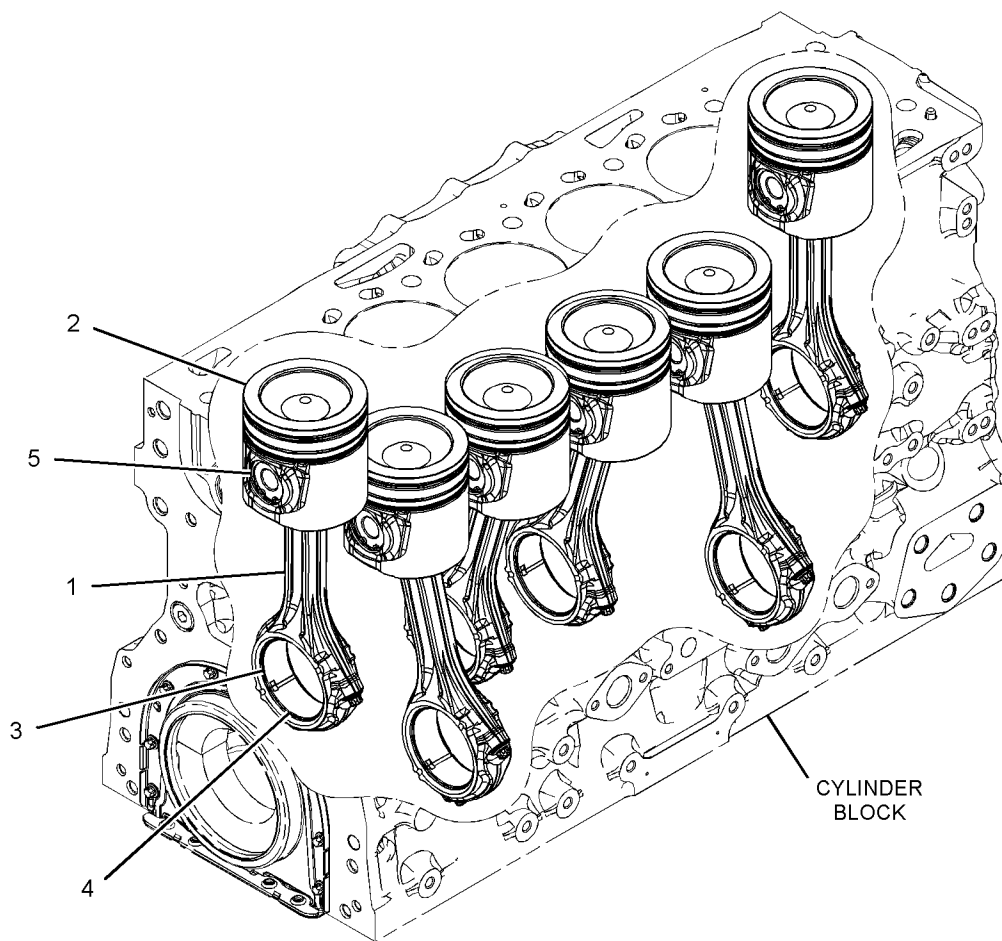
i05723749

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	331-0290	6	CONNECTING ROD GP						
	2	1	369-3186	6	PISTON GP						
J	3	1	317-5482	6	BEARING						
J	4	1	317-5483	6	BEARING						
	5	1	124-3536	12	RING-RETAINING						

AVAILABLE REPAIR KIT(S):

J	360-1564	1	KIT-BEARING (PISTON)							
---	----------	---	----------------------	--	--	--	--	--	--	--

J - KIT MARKED J SERVICES PART MARKED J



GRAPHIC #1

<END>

g03532656

BASIC ENGINE

374-6301 PISTON & ROD GP

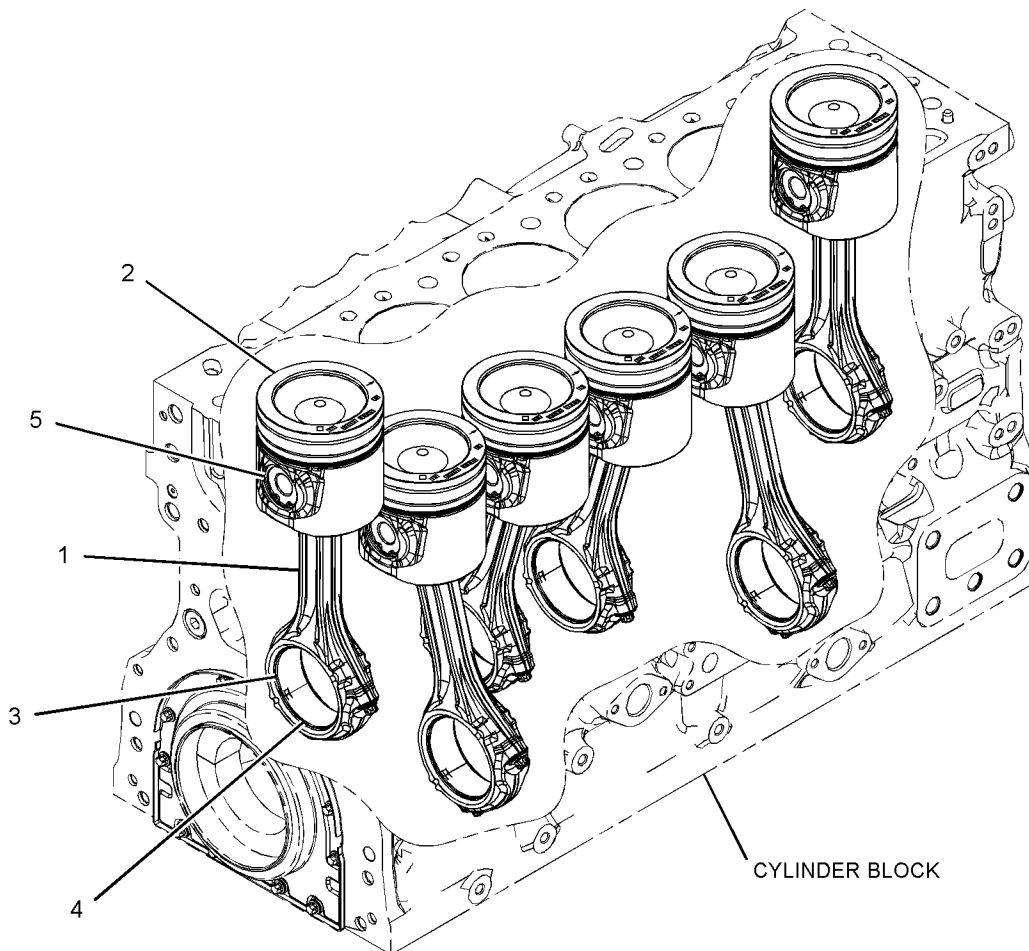
SMCS-1225

i05859664

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	331-0290	6	CONNECTING ROD GP						
					(EACH INCLUDES)						
		1	276-7478	1	BUSHING						
		1	323-9312	2	BOLT (M10X1X50-MM)						
	2	1	450-5996	6	PISTON GP						
J	3	1	317-5482	6	BEARING						
J	4	1	317-5483	6	BEARING						
L	5	1	124-3536	12	RING-RETAINING						
					AVAILABLE REPAIR KIT(S):						
J			360-1564	1	KIT-BEARING (PISTON)						
					(INCLUDES 6 UPPER HALF & 6 LOWER HALF BEARINGS)						
			443-9543	1	KIT-RING						
					(INCLUDES RINGS)						
L			444-2190	1	KIT-PISTON						
					(INCLUDES PISTON, RINGS, & PIN)						

J - KIT MARKED J SERVICES PART(S) MARKED J

L - KIT MARKED L SERVICES PART MARKED L



GRAPHIC #1

<END>

g03658318

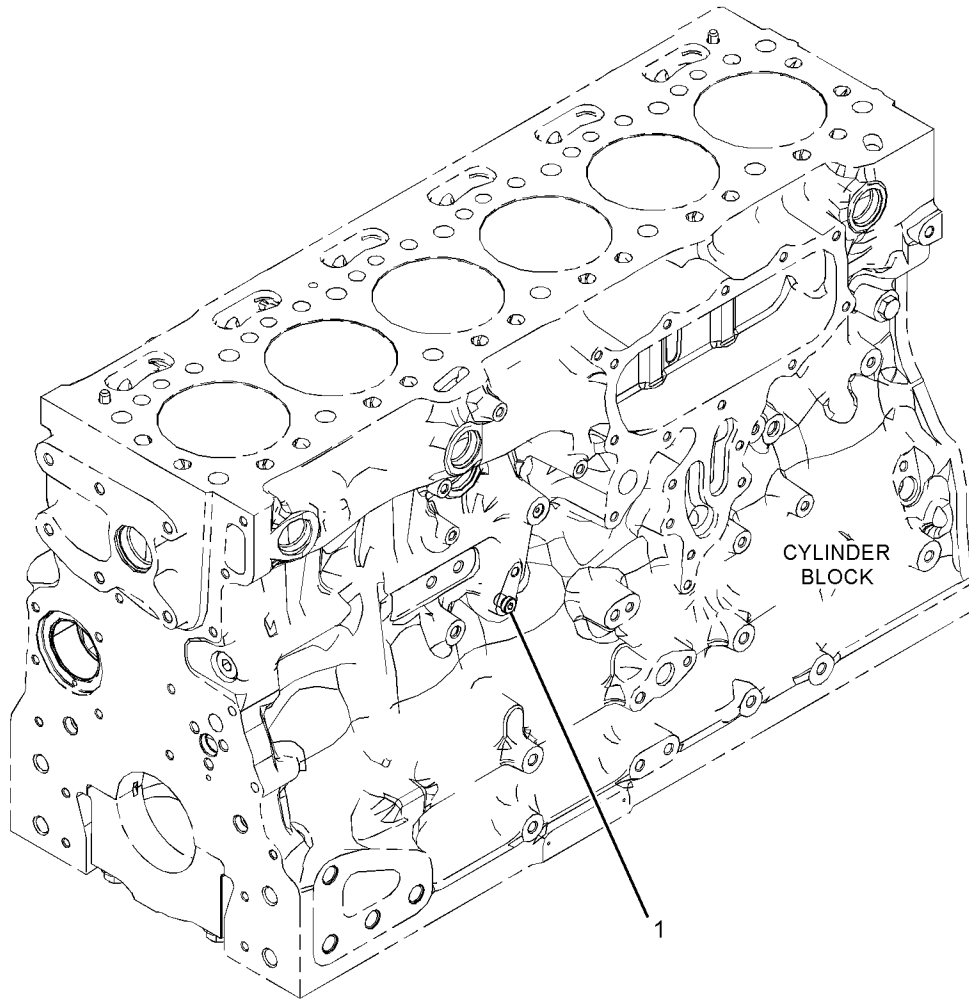
BASIC ENGINE

374-9295 PLUG GP-CYLINDER BLOCK

SMCS-1201

i05723807

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	277-4223	1	PLUG						



GRAPHIC #1

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g03483538

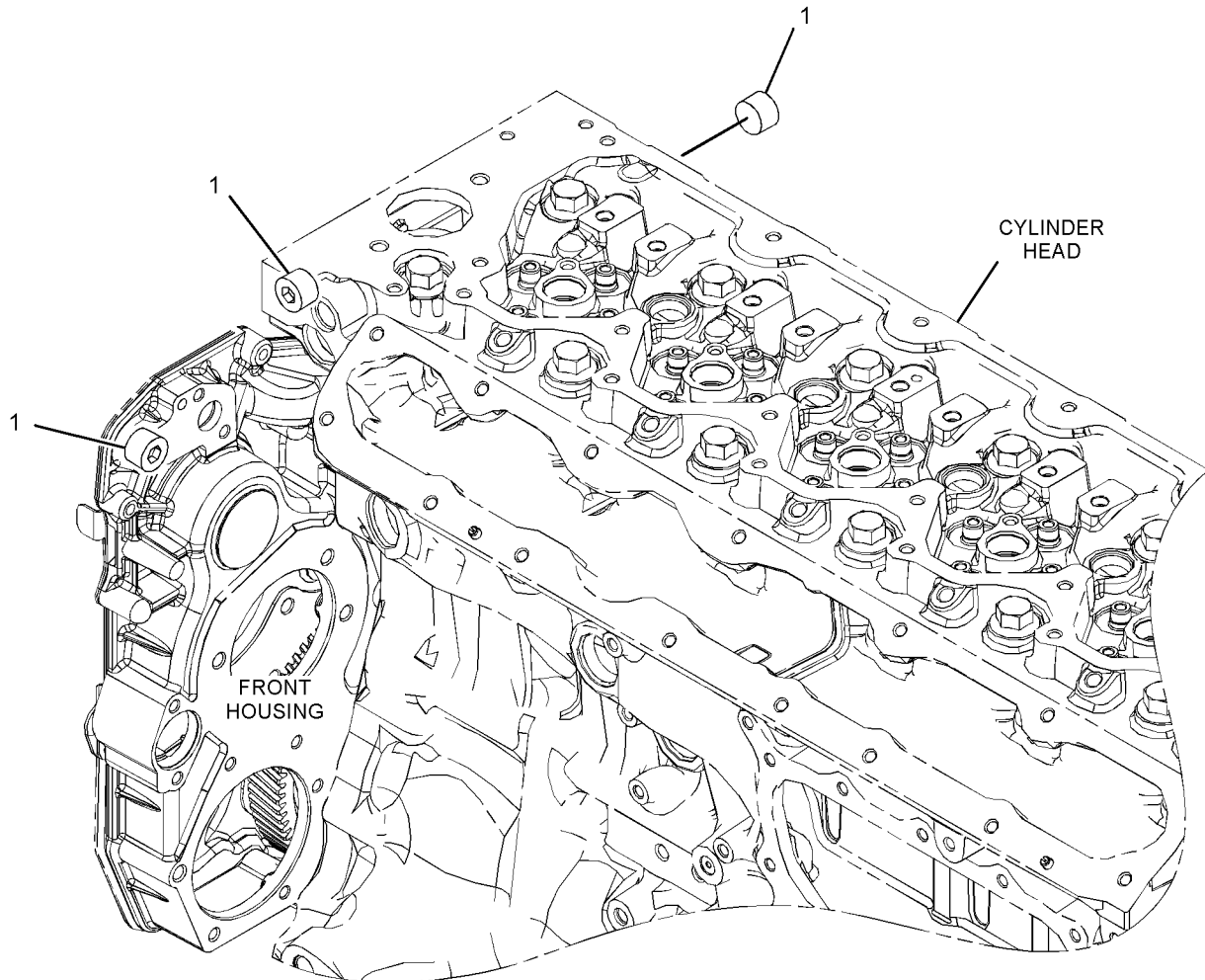
BASIC ENGINE

346-2908 PLUG GP-ENGINE

SMCS-1100, 1201

i05723850

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	067-6823	3	PLUG						



GRAPHIC #1

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g03380722

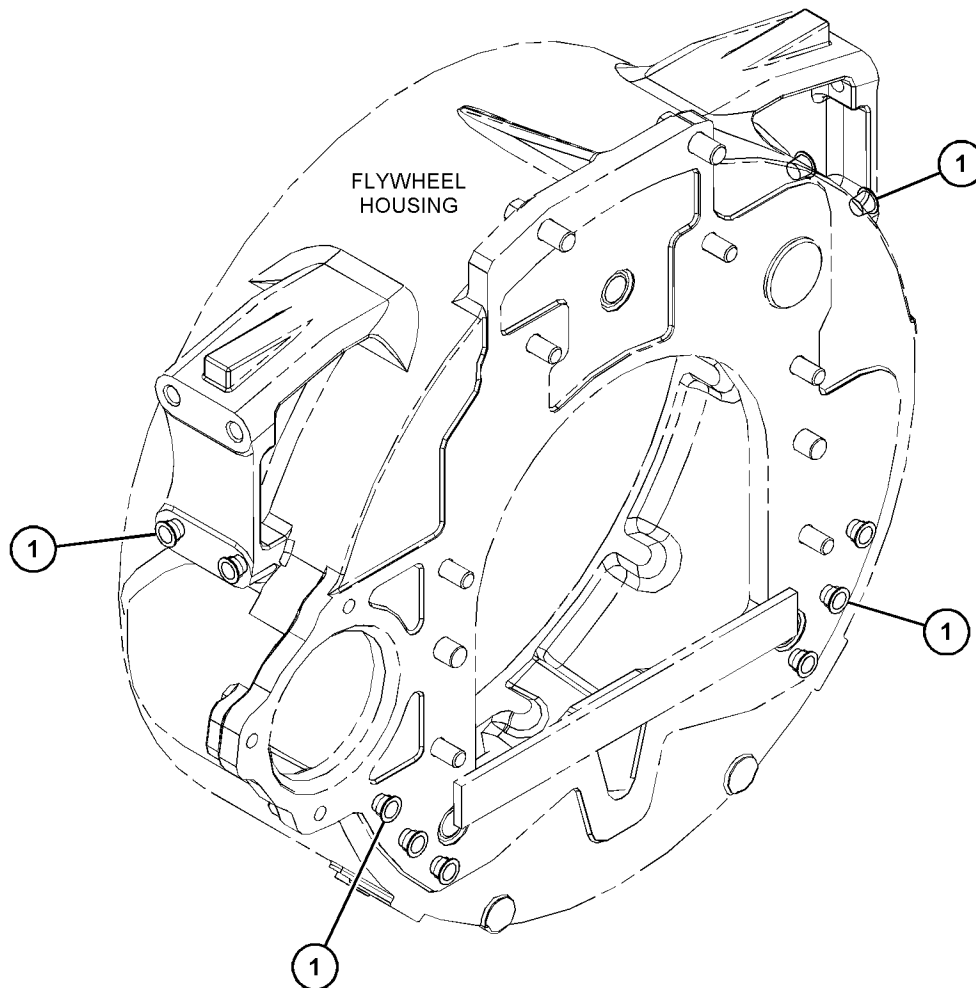
BASIC ENGINE

327-0675 PLUG GP-FLYWHEEL HOUSING

SMCS-1157

i05732833

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6H-3616	10	PLUG-PROTECTION						



GRAPHIC #1

<END>

g03651142

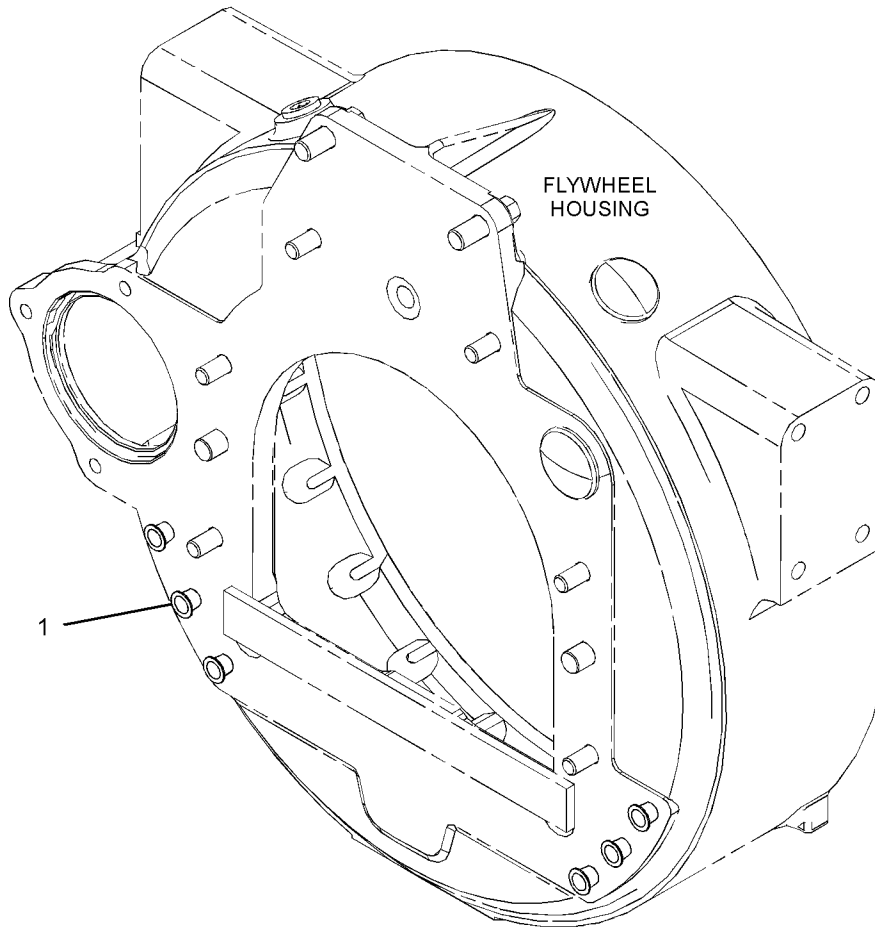
BASIC ENGINE

332-9106 PLUG GP-FLYWHEEL HOUSING

SMCS-1157

i05727029

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6H-3616	6	PLUG-PROTECTION						



GRAPHIC #1

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g03530065

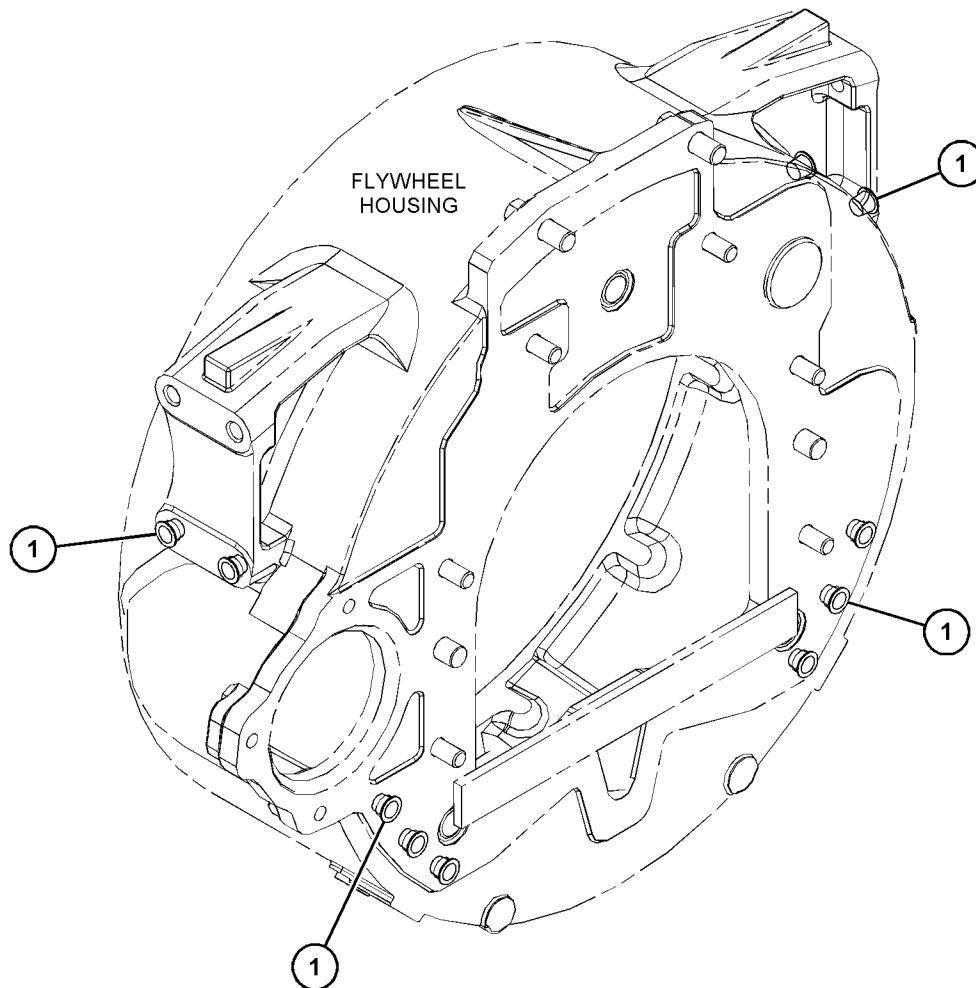
BASIC ENGINE

346-1478 PLUG GP-FLYWHEEL HOUSING

SMCS-1157

i05733302

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6H-3616	10	PLUG-PROTECTION						



GRAPHIC #1

<END>

g03651126

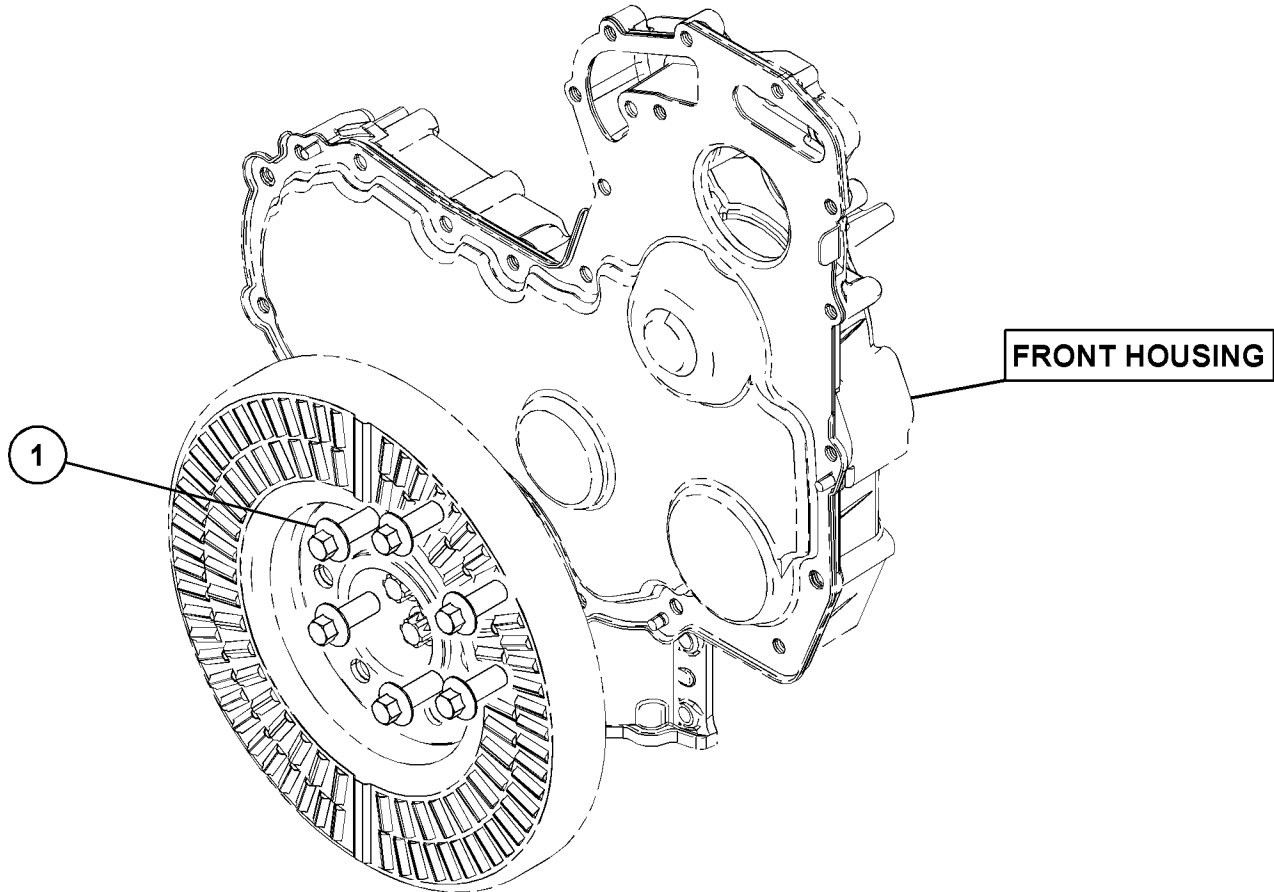
BASIC ENGINE

375-0098 PULLEY GP-AUXILIARY DRIVE

SMCS-1205, 1207

i05723735

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	274-1935	6	BOLT (M12X1.75X30-MM)						



GRAPHIC #1

<END>

g03172177

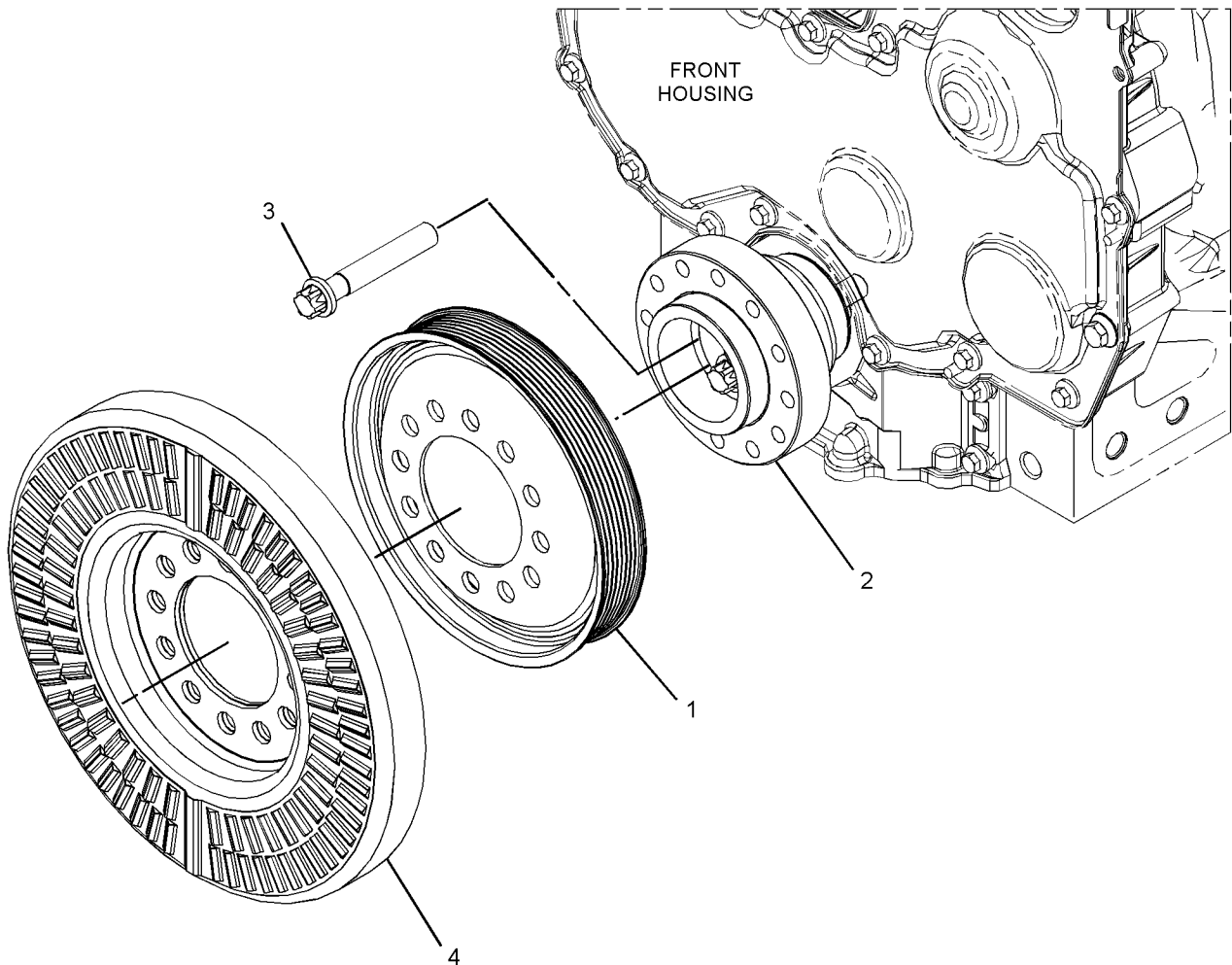
BASIC ENGINE

371-2554 PULLEY GP-CRANKSHAFT

SMCS-1205

i05582472

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	274-1931	1	PULLEY (8-GROOVE)						
	2	1	342-6502	1	ADAPTER						
	3	1	342-6510	3	BOLT-TORX (M14X1.5X70-MM)						
	4	1	351-1724	1	DAMPER						



g03110077

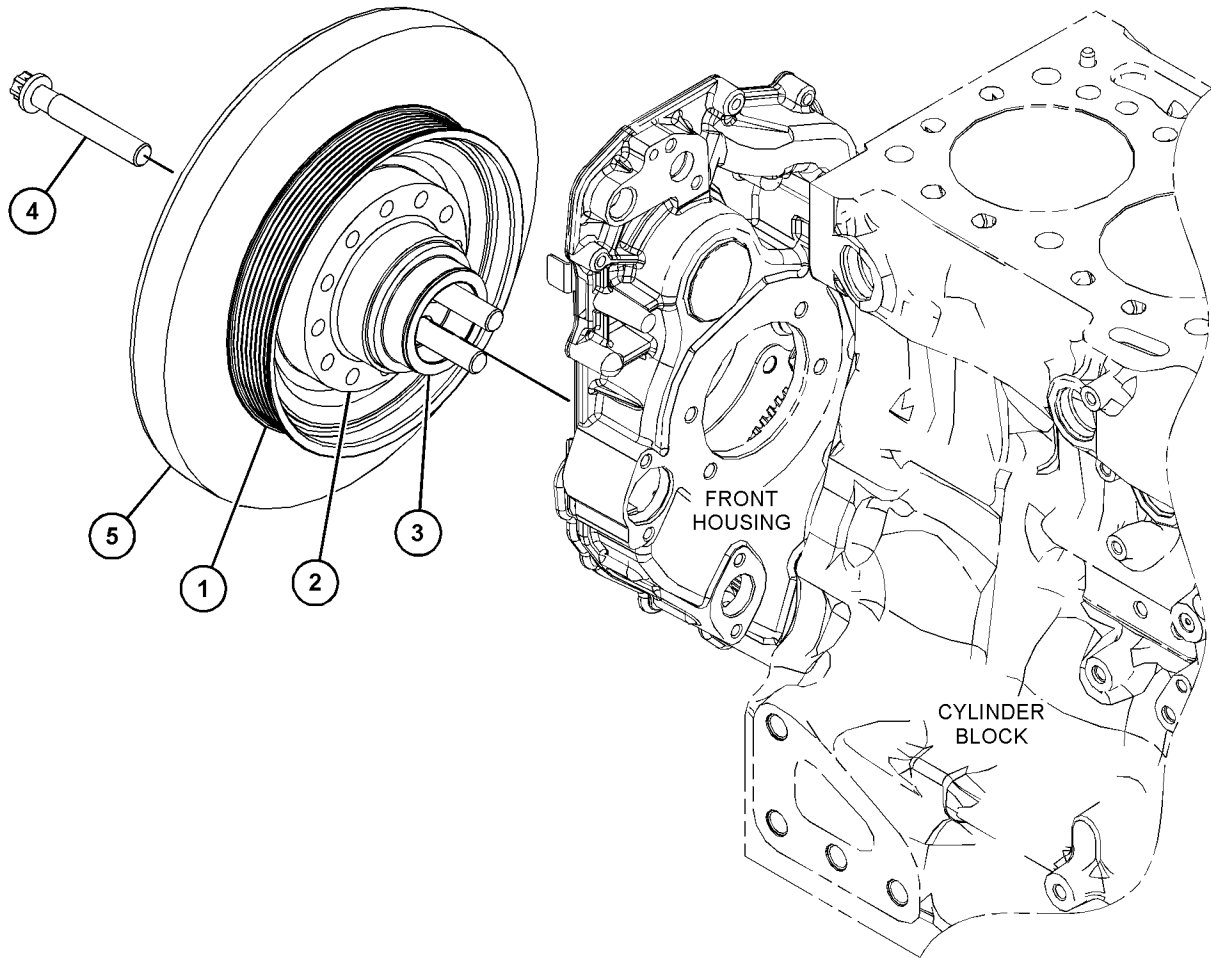
BASIC ENGINE

371-2555 PULLEY GP-CRANKSHAFT 200MM. 8 RIB AXPTO

SMCS-1205

i05719497

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	274-1931	1	PULLEY (8-GROOVE)						
	2	1	342-6502	1	ADAPTER						
	3	1	342-6507	1	SHIM (0.1-MM THK)						
	4	1	342-6510	3	BOLT-TORX (M14X1.5X70-MM)						
	5	1	351-1724	1	DAMPER						



GRAPHIC #1

<END>

g03651022

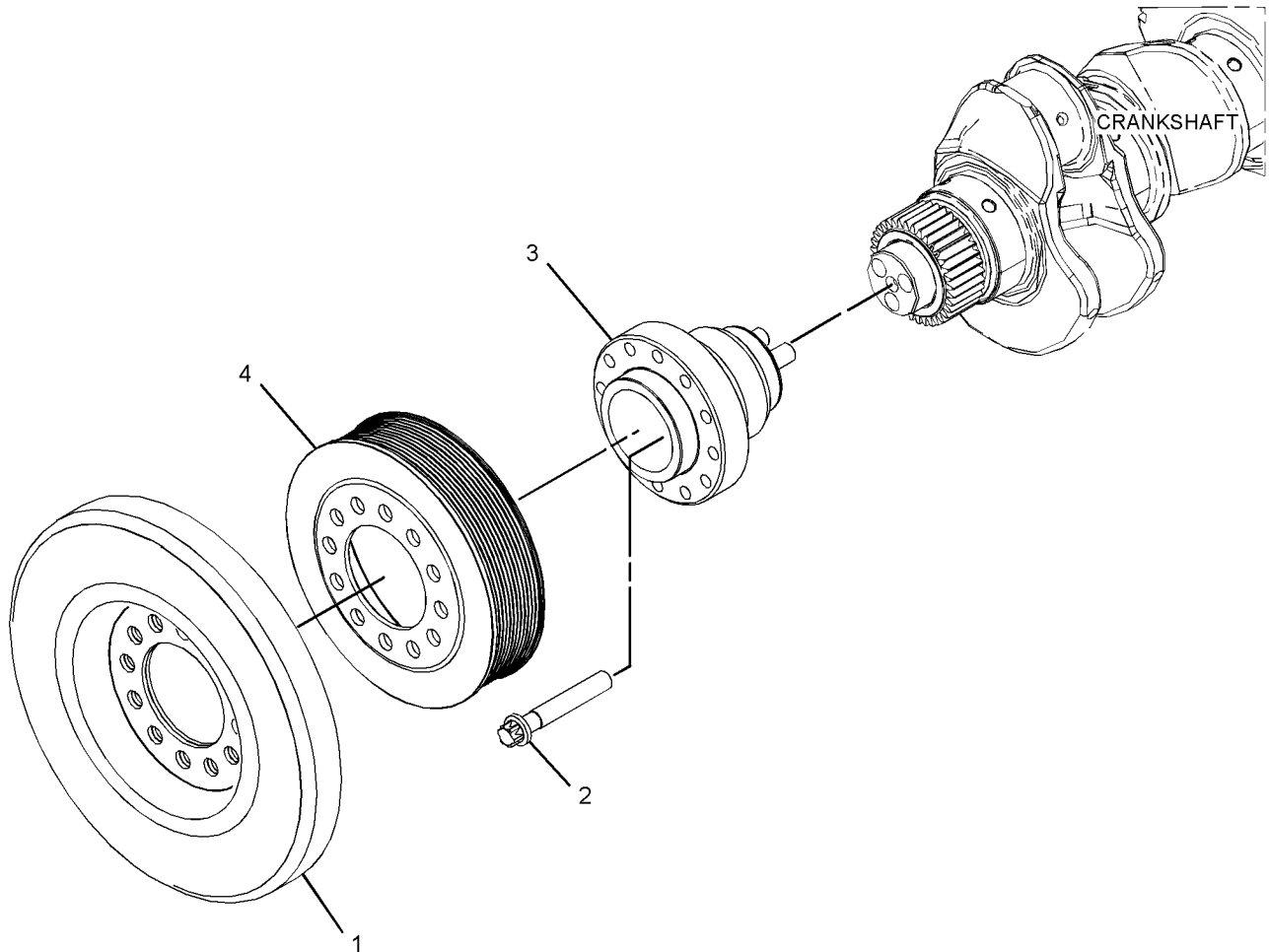
BASIC ENGINE

379-6629 PULLEY GP-CRANKSHAFT

SMCS-1205

i05723715

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	351-1724	1	DAMPER						
	2	1	342-6510	3	BOLT-TORX (M14X1.5X70-MM)						
	3	1	342-6502	1	ADAPTER						
	4	1	286-7848	1	PULLEY GP-ENGINE (8-GROOVE)						



GRAPHIC #1

<END>

g02723352

BASIC ENGINE

280-1911 ROCKER ARM GP

PART OF 371-2480 ROCKER ARM GP

SMCS-1123

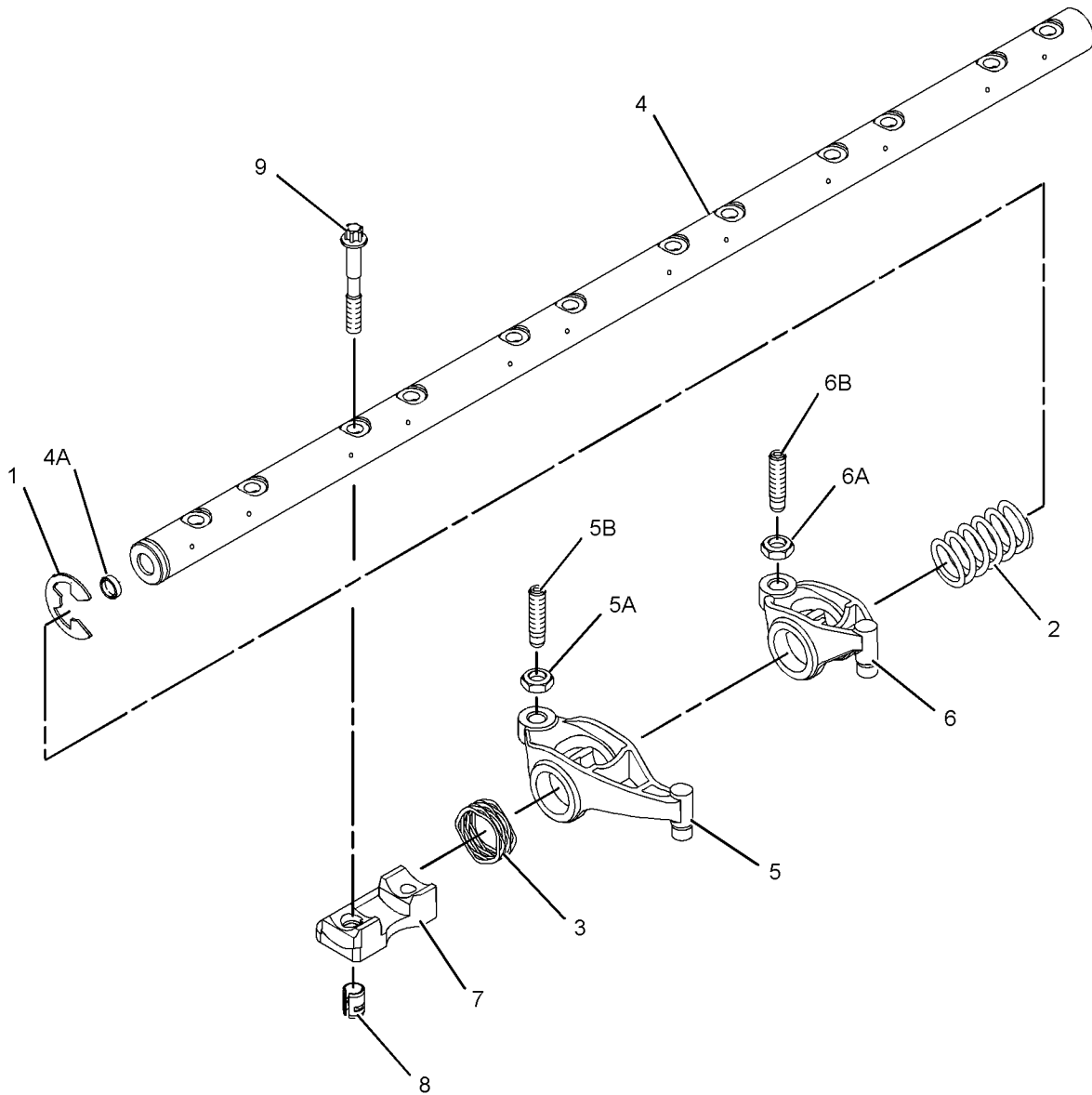
i05581254

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	276-9201	1	CLIP						
	2	1	276-9206	5	SPRING-SHAFT						
	3	1	276-9207	1	SPRING-SHAFT						
	4	1	277-5307	1	SHAFT AS-ROCKER ARM						
	4A	1	276-9200	1	PLUG-SHAFT END						
	5	1	278-5111	6	ROCKER ARM AS						
					(EACH INCLUDES)						
	5A	1	276-9230	1	NUT						
	5B	1	278-5113	1	ADJUSTING SCREW (TORX)						
	6	1	278-5112	6	ROCKER ARM AS						
					(EACH INCLUDES)						
	6A	1	276-9230	1	NUT						
	6B	1	278-5113	1	ADJUSTING SCREW (TORX)						
	7	1	280-1912	6	BRACKET						
	8	1	280-1913	6	RETAINER						
	9	1	280-1914	12	BOLT (M8X1.25X55-MM)						

BASIC ENGINE

280-1911 ROCKER ARM GP (contd.)

i05581254



GRAPHIC #1

<END>

g01235750

BASIC ENGINE

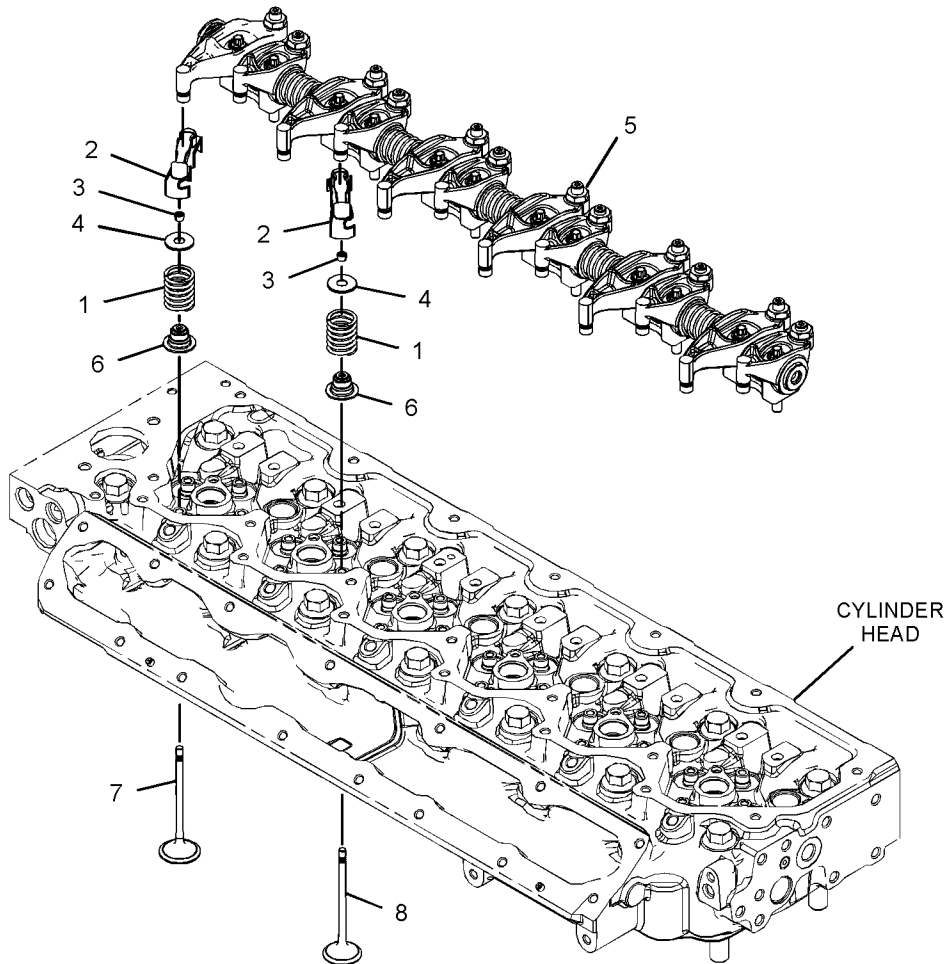
371-2480 ROCKER ARM GP

SMCS-1123

i05773124

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	436-0521	24	SPRING-VALVE						
	2	1	346-4709	12	BRIDGE GP-VALVE						
	3	1	276-8123	48	RETAINER						
	4	1	276-8133	24	CAP-VALVE						
Y	5	1	280-1911	1	ROCKER ARM GP						126
	6	1	299-5511	24	SEAL-VALVE STEM						
	7	1	309-6678	12	VALVE-INLET						
	8	1	339-9637	12	VALVE-EXHAUST						

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03103178

BASIC ENGINE

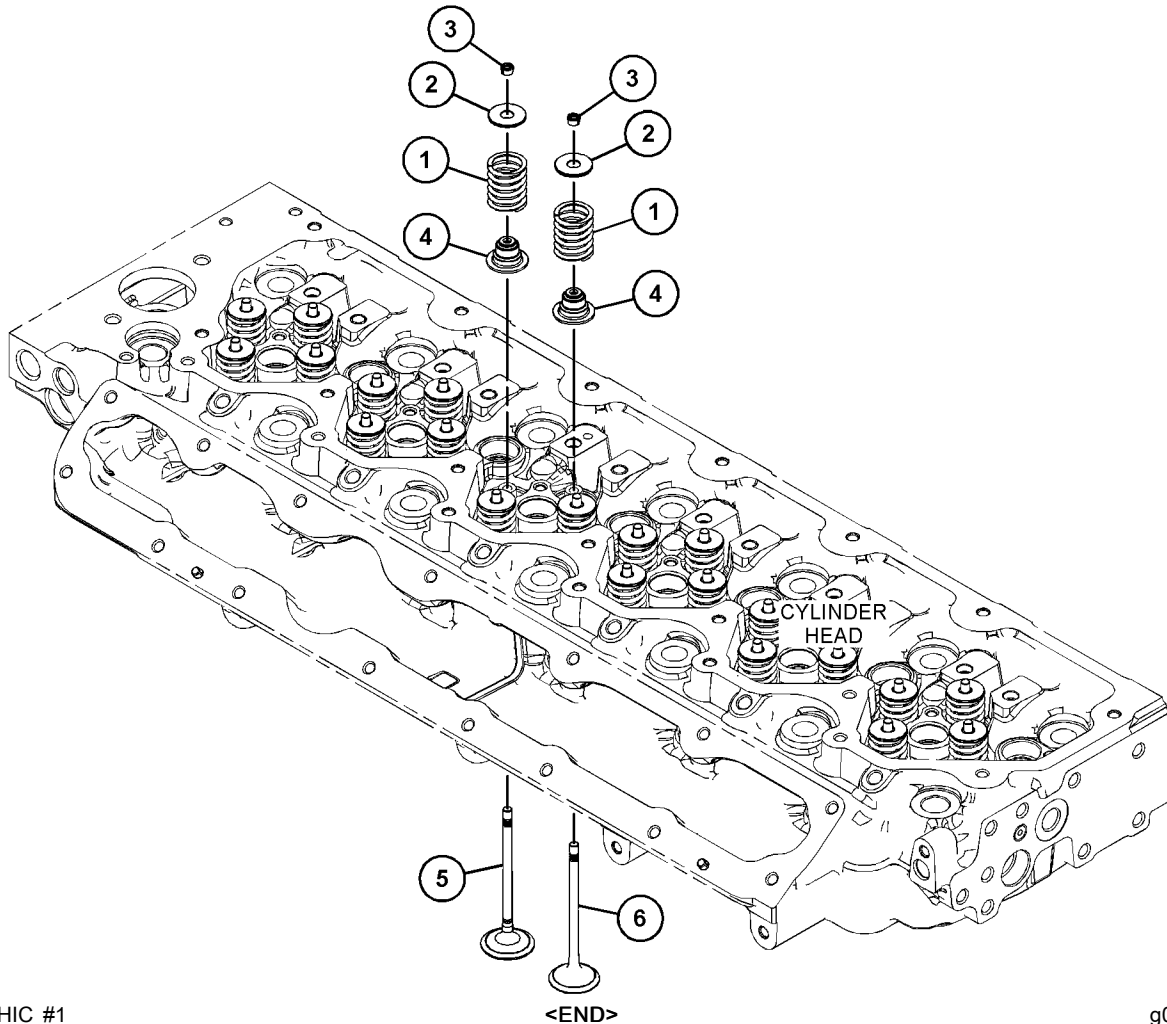
452-6585 ROCKER ARM GP

PART OF 452-6584 CYLINDER HEAD GP

SMCS-1123

i06041075

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6	
	1	1	436-0521	24	SPRING - VALVE						
	2	1	276-8133	24	CAP - VALVE						
	3	1	276-8123	48	RETAINER						
	4	1	299-5511	24	SEAL - VALVE STEM						
	5	1	309-6678	12	VALVE - INLET						
	6	1	339-9637	12	VALVE - EXHAUST						



BASIC ENGINE

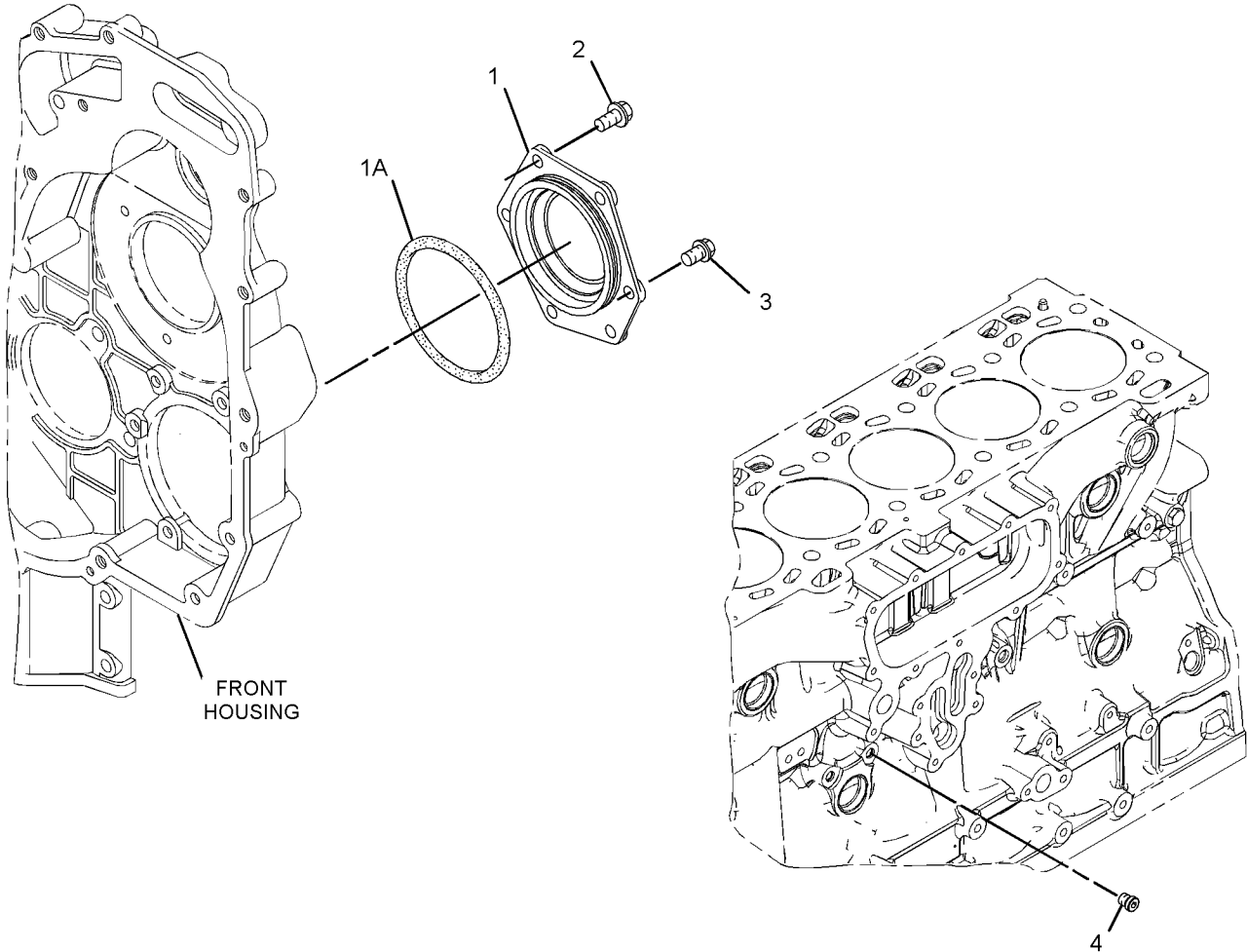
371-2719 SUPPORT GP-POWER TAKE-OFF

SMCS-1165

i05583092

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	329-7854	1	PLATE AS						
	1A	1	329-7856	1	SEAL-O-RING						
	2	1	111-8222	5	BOLT (M8X16-MM)						
M	3	1	100-4830	1	BOLT (M10X1.5X20-MM)						
	4	1	277-4223	1	PLUG						

M - METRIC PART



GRAPHIC #1

<END>

g01682857

LUBRICATION SYSTEM

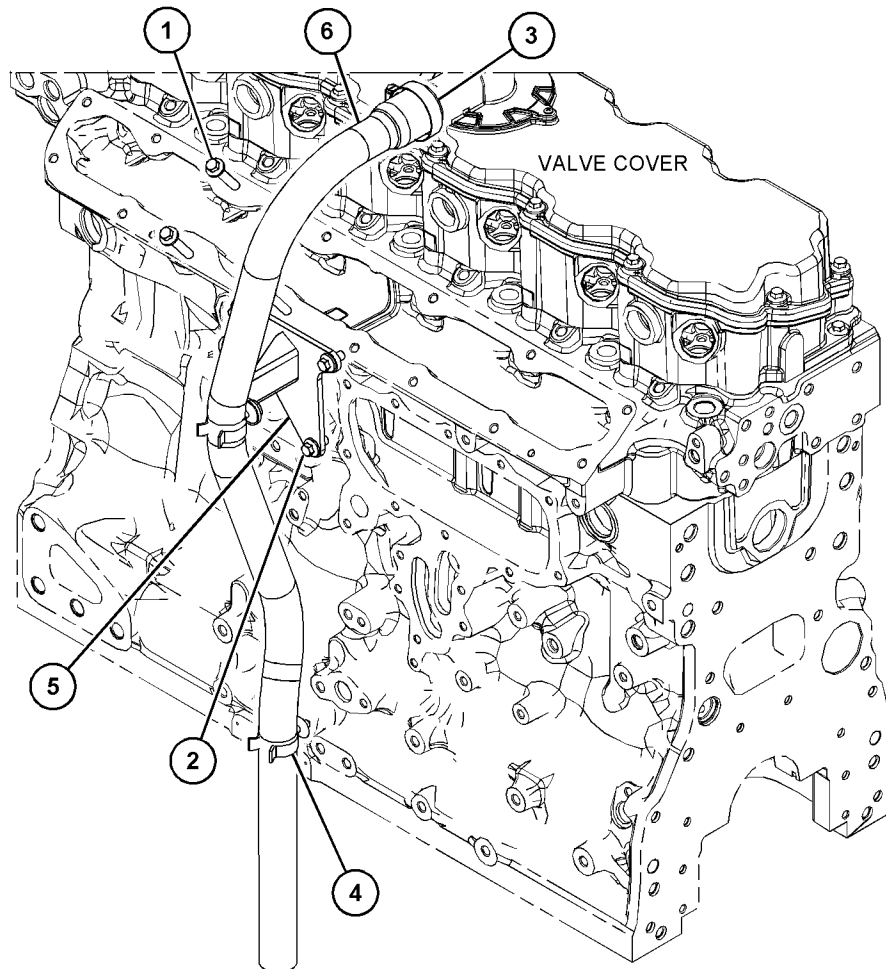
392-0632 BREATHER GP

SMCS-1317

i05723815

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	105-2740	3	BOLT						
M	2	1	124-3815	3	BOLT (M8X1.25X16-MM)						
	3	1	363-5813	1	CLAMP-HOSE						
	4	1	378-5311	2	CLIP-PIPE						
	5	1	389-1995	1	BRACKET AS						
	6	1	392-4097	1	HOSE						

M - METRIC PART



GRAPHIC #1

<END>

g03482913

LUBRICATION SYSTEM

425-0196 BREATHER GP

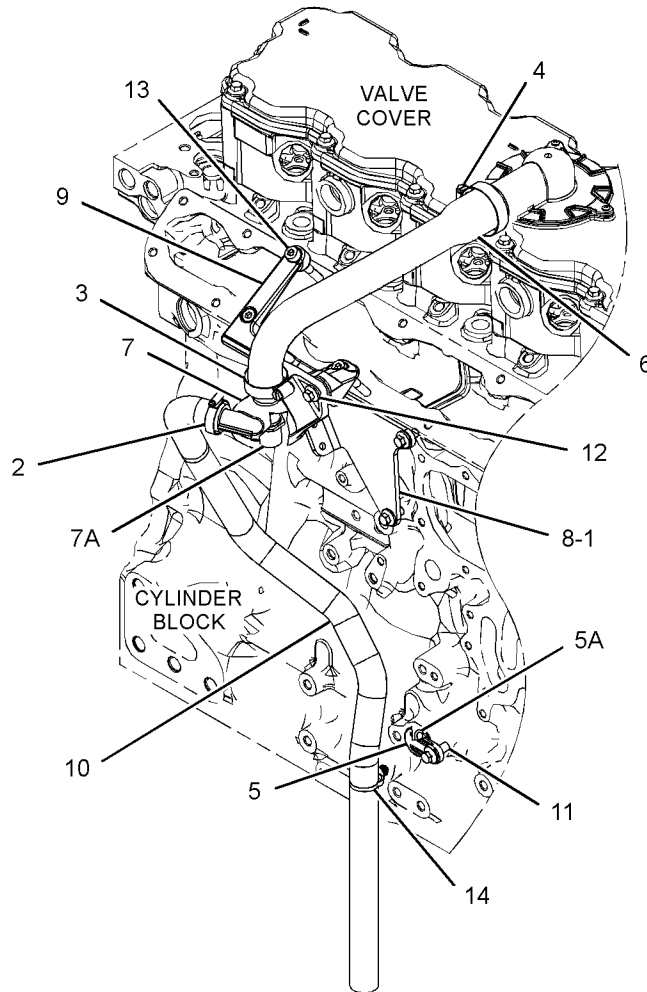
TYPE 1

SMCS-1317

i05564958

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	124-3815	3	BOLT (M8X1.25X16-MM)						
	2	1	5V-9155	1	CLAMP-HOSE						
	3	1	9M-7958	1	CLAMP-HOSE						
	4	1	363-5813	1	CLAMP-HOSE						
	5	1	388-9243	1	PLUG GP-ENGINE OIL LINES						
	5A	1	331-8053	1	SEAL-O-RING						
	6	1	424-0566	1	HOSE						
	7	1	424-3214	1	BASE AS-OIL FILTER						
	7A	1	286-0015	1	STEM						
	8	1	428-7042	1	BRACKET						
	9	1	430-6686	1	BRACKET-FILTER						
	10	1	433-2039	1	HOSE						
M	11	1	6I-0217	1	BOLT (M8X1.25X20-MM)						
M	12	1	6I-0260	2	BOLT (M8X1.25X25-MM)						
M	13	1	195-2186	3	BOLT-SOCKET HEAD						
	14	1	316-9351	1	MOUNTING-CABLE TIE						

M - METRIC PART



GRAPHIC #1

<END>

g03380302

LUBRICATION SYSTEM

425-0196 BREATHER GP

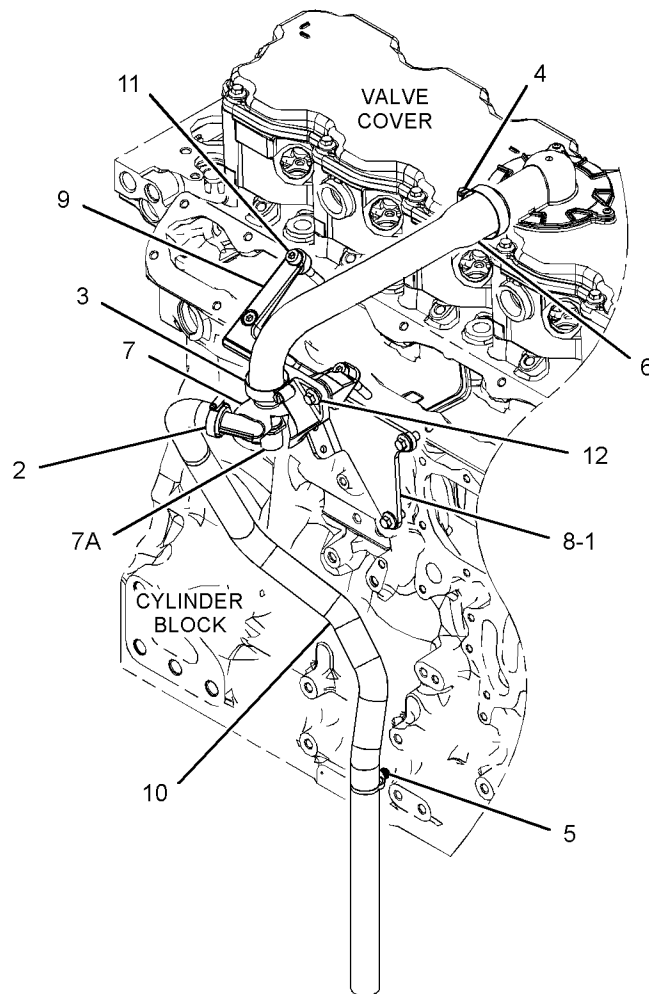
TYPE 2

SMCS-1317

i05727298

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	124-3815	3	BOLT (M8X1.25X16-MM)						
	2	1	5V-9155	1	CLAMP-HOSE						
	3	1	9M-7958	1	CLAMP-HOSE						
	4	1	363-5813	1	CLAMP-HOSE						
	5	1	316-9351	1	MOUNTING-CABLE TIE						
	6	1	424-0566	1	HOSE						
	7	1	424-3214	1	BASE AS-OIL FILTER						
	7A	1	286-0015	1	STEM						
	8	1	428-7042	1	BRACKET						
	9	1	430-6686	1	BRACKET-FILTER						
	10	1	433-2039	1	HOSE						
M	11	1	195-2186	3	BOLT-SOCKET HEAD						
M	12	1	6I-0260	2	BOLT (M8X1.25X25-MM)						

M - METRIC PART



GRAPHIC #1

<END>

g03653579

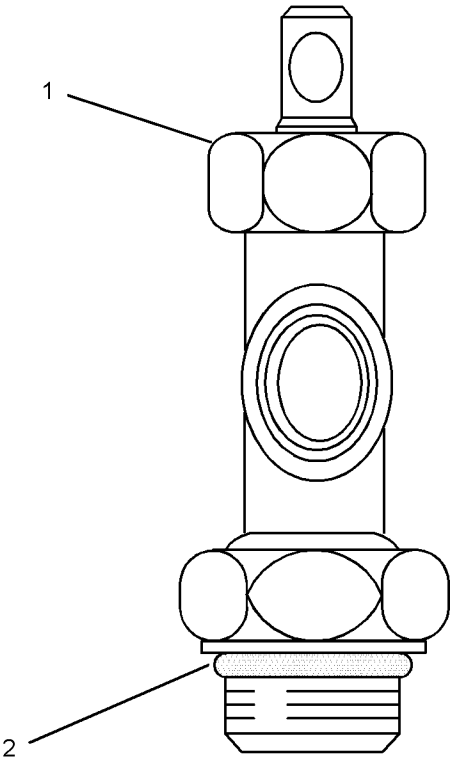
LUBRICATION SYSTEM

378-8166 DRAIN GP-OIL

SMCS-1372

i05582409

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6V-7238	1	VALVE-SHUTOFF						
	2	1	3K-0360	1	SEAL-O-RING						



GRAPHIC #1

<END>

g03457400

LUBRICATION SYSTEM

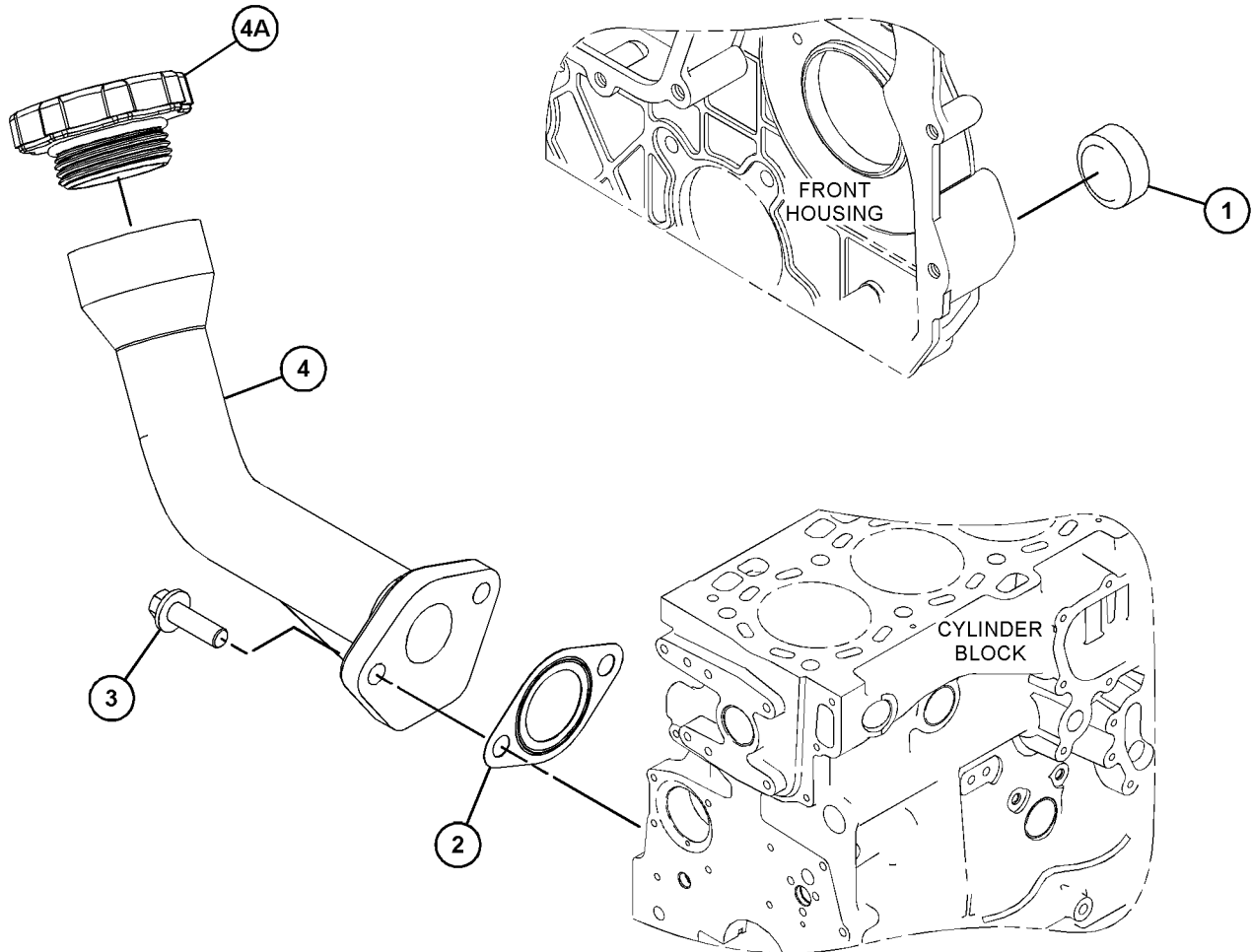
379-6626 FILLER GP-ENGINE OIL

SMCS-1316

i05794718

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	225-6522	1	PLUG-CUP						
	2	1	278-0017	1	GASKET						
M	3	1	6I-0260	2	BOLT (M8X1.25X25-MM)						
	4	1	385-5363	1	FILLER GP-ENGINE OIL						
	4A	1	359-1309	1	CAP AS-FILLER (ENGINE OIL)						

M - METRIC PART



GRAPHIC #1

<END>

g03730816

LUBRICATION SYSTEM

390-3737 FILLER GP-ENGINE OIL

SMCS-1316

i05580569

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
M	6I-0217	2	BOLT (M8X1.25X20-MM)						
M	6I-0254	1	BOLT (M8X1.25X30-MM)						
	6I-4374	1	BOLT (M8X1.25X60-MM)						
	321-2383	1	FILLER GP-ENGINE OIL						
	306-2337	1	SEAL-O-RING						
	130-9888	1	CAP-OIL FILLER (ENGINE)						
	113-1504	1	SEAL-O-RING						
	277-1974	1	PLATE AS						
	277-1975	1	SEAL-O-RING						

M - METRIC PART

<END>

LUBRICATION SYSTEM

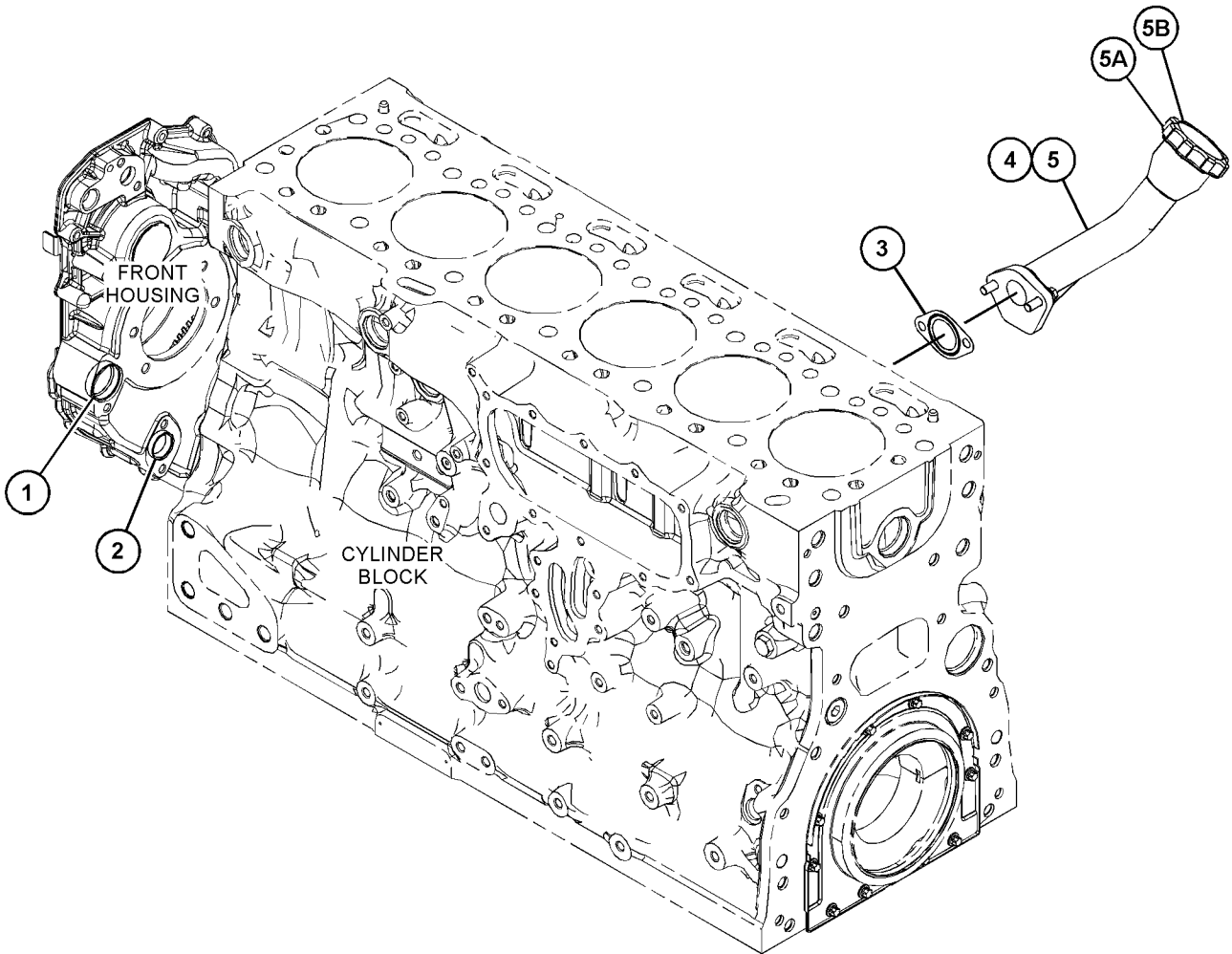
415-1646 FILLER GP-ENGINE OIL

SMCS-1316

i05794719

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	225-6522	1	PLUG-CUP						
	2	1	225-6524	1	PLUG-CUP						
	3	1	278-0017	1	GASKET						
M	4	1	6I-0260	2	BOLT (M8X1.25X25-MM)						
	5	1	385-5363	1	FILLER GP-ENGINE OIL						
	5A	1	369-3867	1	CAP AS-OIL FILLER (ENGINE)						
	5B	1	357-0147	1	FILM-IDENTIFICATION (OIL FILL, READ OMM)						

M - METRIC PART



GRAPHIC #1

<END>

g03688546

LUBRICATION SYSTEM

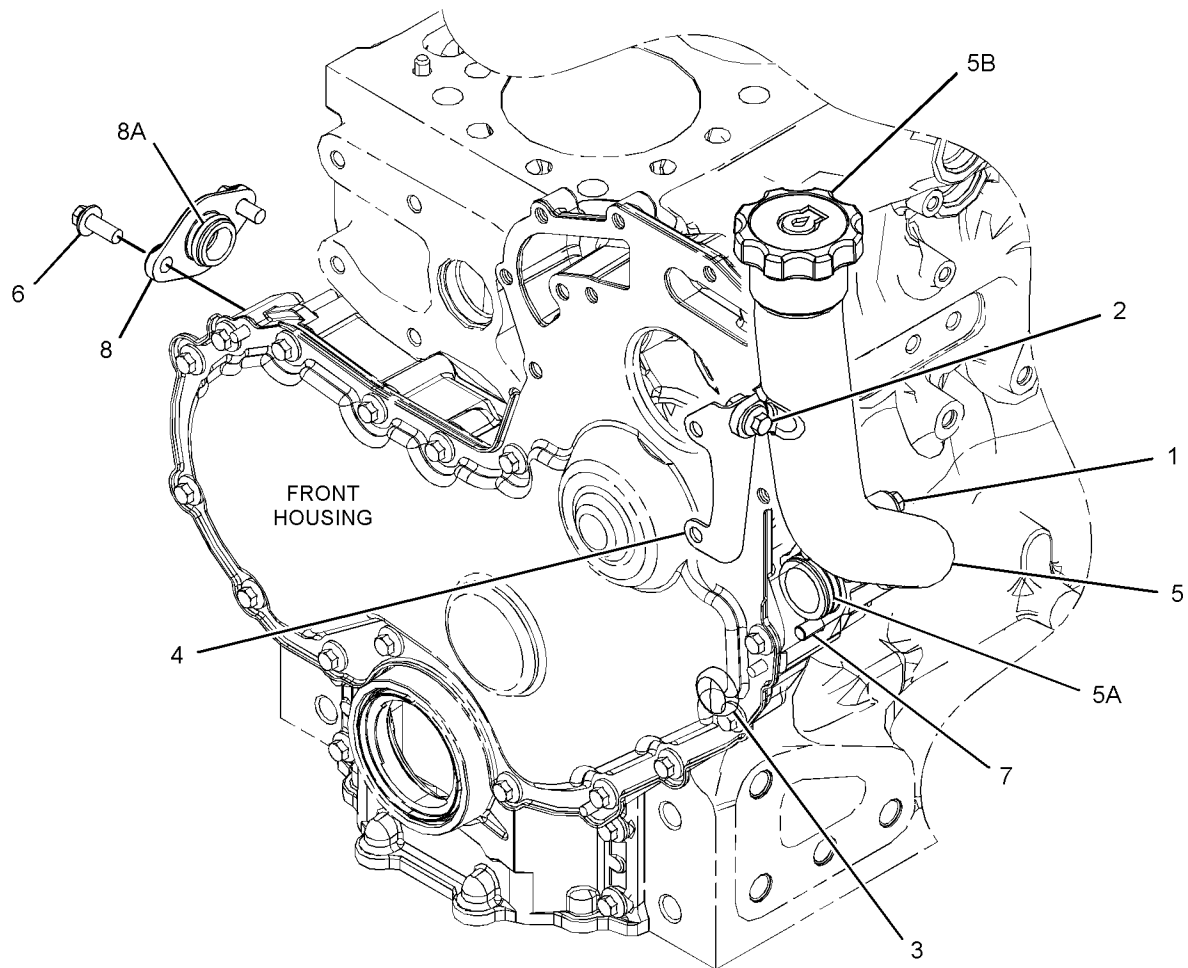
419-6603 FILLER GP-ENGINE OIL

SMCS-1316

i05712531

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-4374	1	BOLT (M8X1.25X60-MM)						
M	2	1	124-3815	1	BOLT (M8X1.25X16-MM)						
	3	1	225-6524	1	PLUG-CUP						
	4	1	416-9520	1	BRACKET AS						
	5	1	419-0384	1	FILLER GP-ENGINE OIL						
	5A	1	306-2337	1	SEAL-O-RING						
	5B	1	369-3867	1	CAP AS-OIL FILLER						
M	6	1	6I-0217	2	BOLT (M8X1.25X20-MM)						
	7	1	6I-1090	1	BOLT (M8X1.25X40-MM)						
	8	1	277-1974	1	PLATE AS						
	8A	1	277-1975	1	SEAL-O-RING						

M - METRIC PART



GRAPHIC #1

<END>

g03556805

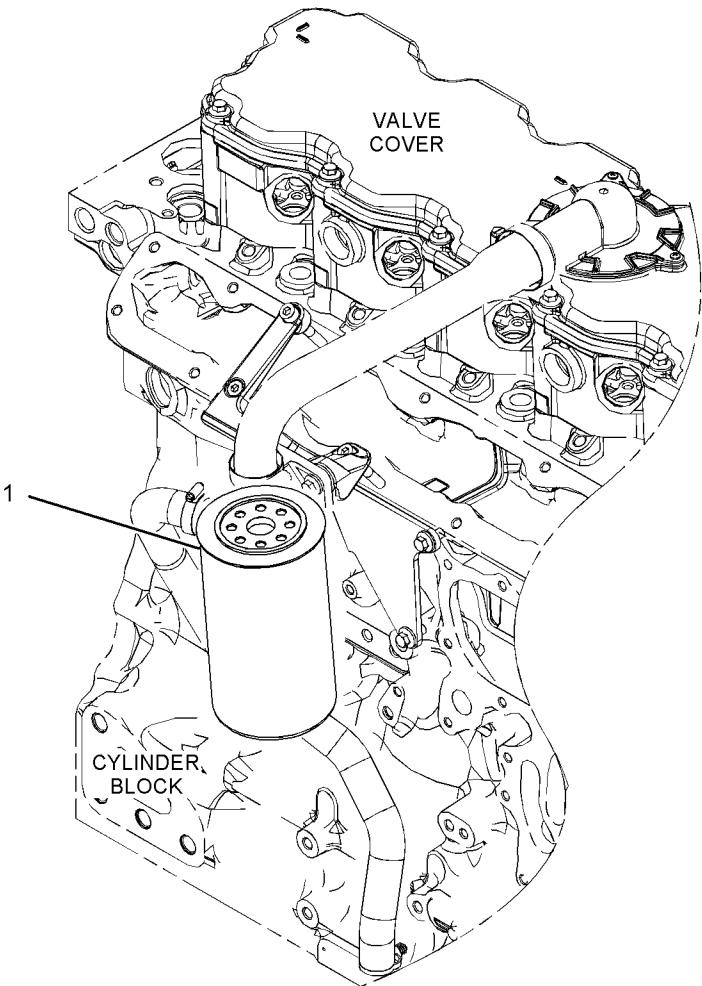
LUBRICATION SYSTEM

425-0197 FILLER GP-ENGINE OIL

SMCS-1316

i05580592

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	273-5711	1	FILTER-FUMES DISPOSAL						



GRAPHIC #1

<END>

g03380365

LUBRICATION SYSTEM

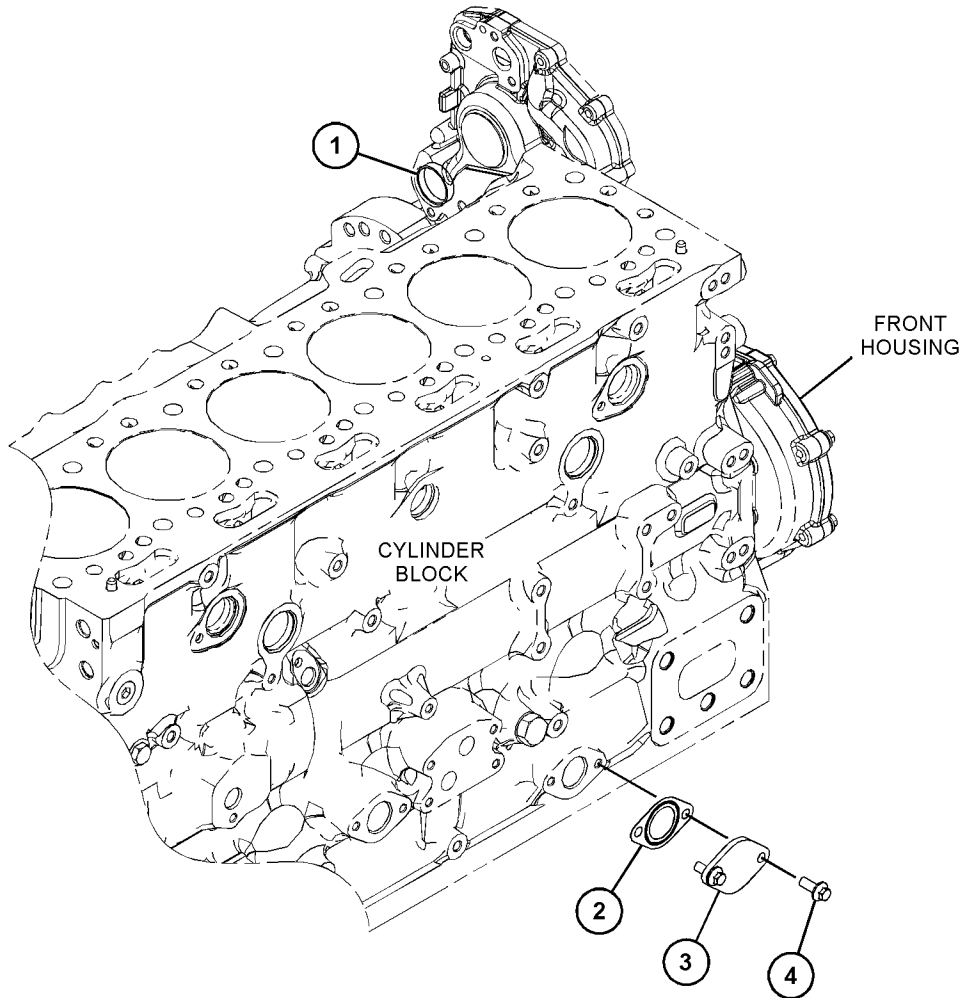
438-5978 FILLER GP-ENGINE OIL

SMCS-1316

i05726929

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	225-6522	1	PLUG-CUP						
	2	1	278-0017	1	GASKET						
	3	1	351-5583	1	PLATE						
M	4	1	6I-0217	2	BOLT (M8X1.25X20-MM)						

M - METRIC PART



GRAPHIC #1

<END>

g03665506

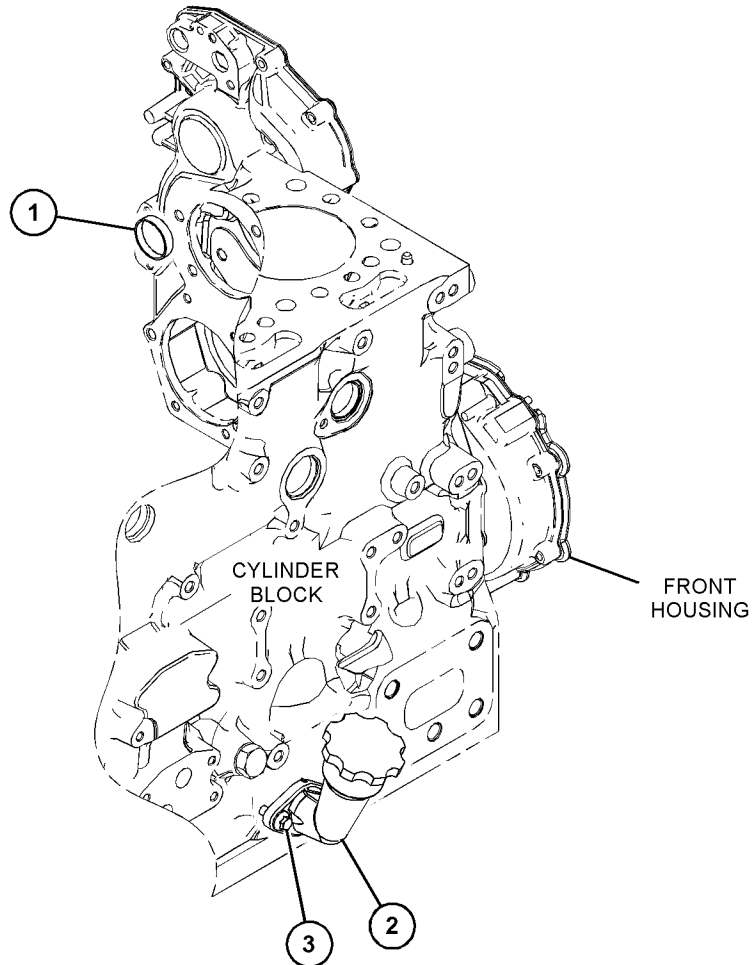
LUBRICATION SYSTEM

438-5983 FILLER GP-ENGINE OIL

SMCS-1316

i05934031

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	225-6522	1	PLUG-CUP						
	2	1	285-3058	1	FILLER AS-OIL						
		1	130-9888	1	CAP-OIL FILLER (ENGINE)						
		1	113-1504	1	SEAL-O-RING						
		1	234-6171	1	SEAL-O-RING						
M	3	1	6I-0217	2	BOLT (M8X1.25X20-MM)						
M - METRIC PART											



GRAPHIC #1

<END>

g03790397

LUBRICATION SYSTEM

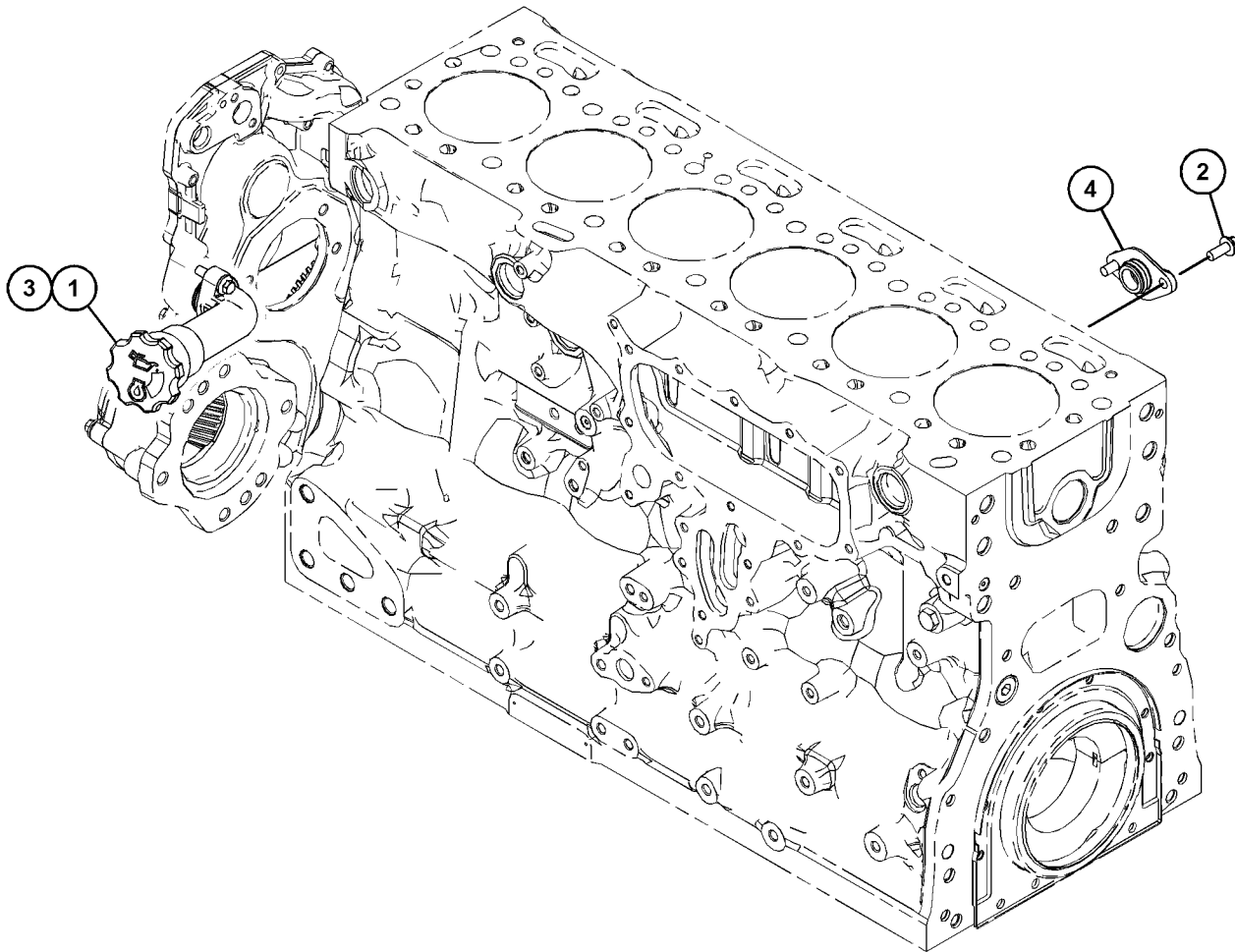
448-0944 FILLER GP-ENGINE OIL

SMCS-1316

i06024436

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	443-3851	1	FILLER GP-OIL						
		1	130-9888	1	CAP-OIL FILLER (ENGINE)						
		1	306-2337	1	SEAL-O-RING						
M	2	1	6I-0217	2	BOLT (M8X1.25X20-MM)						
M	3	1	6I-0254	2	BOLT (M8X1.25X30-MM)						
	4	1	277-1974	1	PLATE AS						
		1	277-1975	1	SEAL-O-RING						

M - METRIC PART



GRAPHIC #1

<END>

g03749546

LUBRICATION SYSTEM

452-0776 FILLER GP-OIL

SMCS-1316

i05957862

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
M	6I-0217	2	BOLT (M8X1.25X20-MM)						
M	6I-1090	1	BOLT (M8X1.25X40-MM)						
M	6I-4374	1	BOLT (M8X1.25X60-MM)						
M	124-3815	1	BOLT (M8X1.25X16-MM)						
	277-1974	1	PLATE AS						
	277-1975	1	SEAL-O-RING						
	416-9520	1	BRACKET AS						
	317-6213	1	NUT						
	419-0384	1	FILLER GP-ENGINE OIL						

M - METRIC PART

<END>

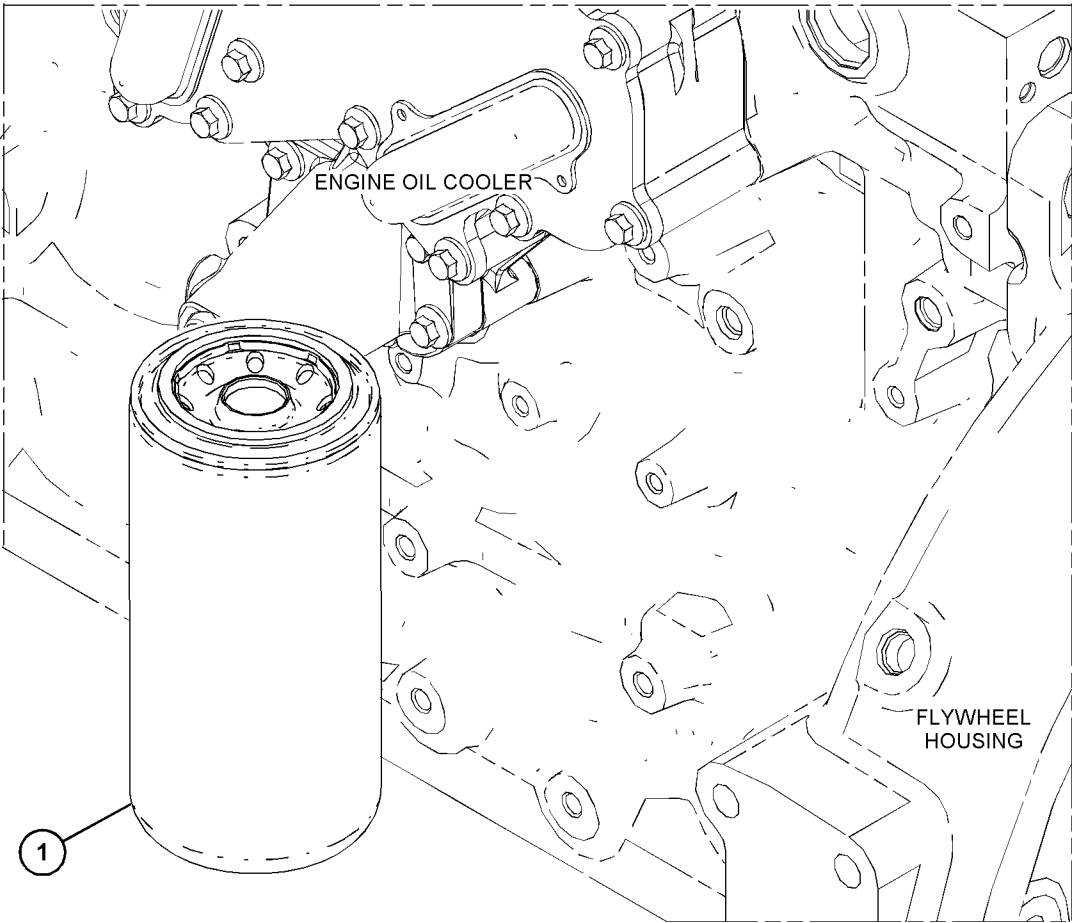
LUBRICATION SYSTEM

346-0220 FILTER GP-ENGINE OIL

SMCS-1306, 1308

i05882504

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	462-1171	1	FILTER-ENGINE OIL						



GRAPHIC #1

<END>

g03710180

LUBRICATION SYSTEM

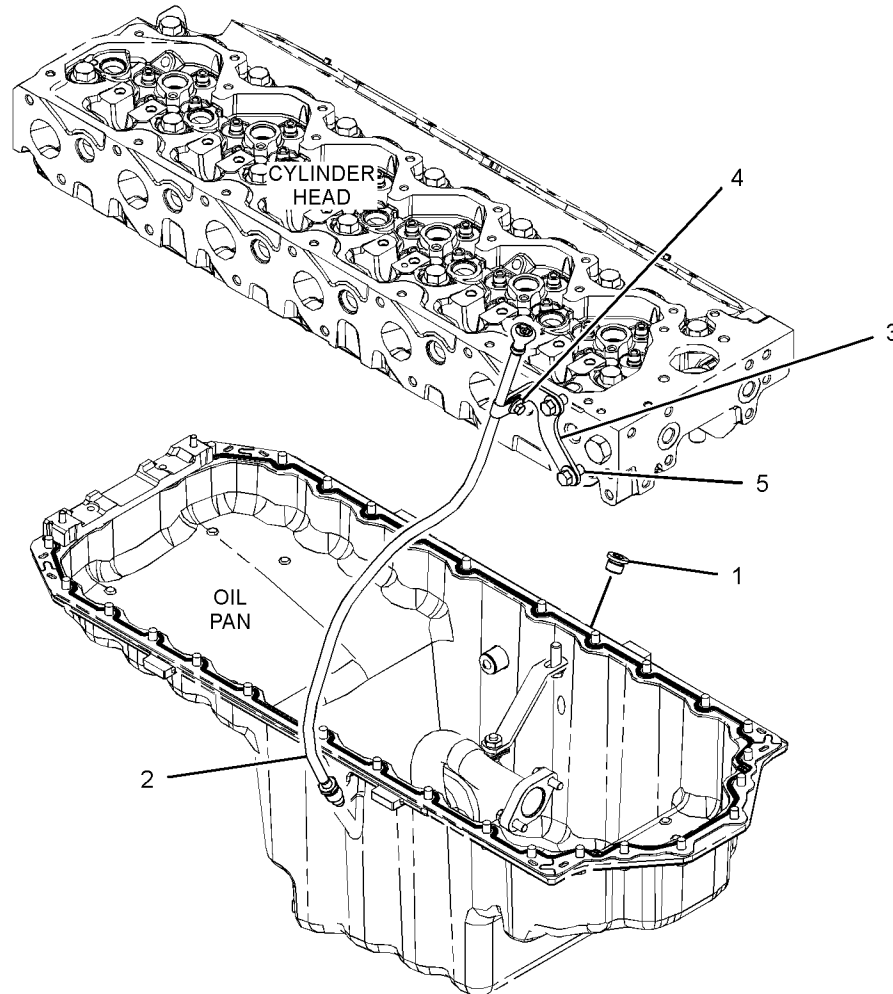
375-8851 GAUGE GP-OIL LEVEL (DIPSTICK)

SMCS-1326

i05989976

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	354-8322	1	PLUG						
	2	1	378-8587	1	GAUGE GP-OIL LEVEL (DIPSTICK)						
	3	1	317-6664	1	BRACKET						
M	4	1	124-3815	1	BOLT (M8X1.25X16-MM)						
M	5	1	6I-4200	2	BOLT (M10X1.5X16-MM)						

M - METRIC PART



GRAPHIC #1

<END>

g03483057

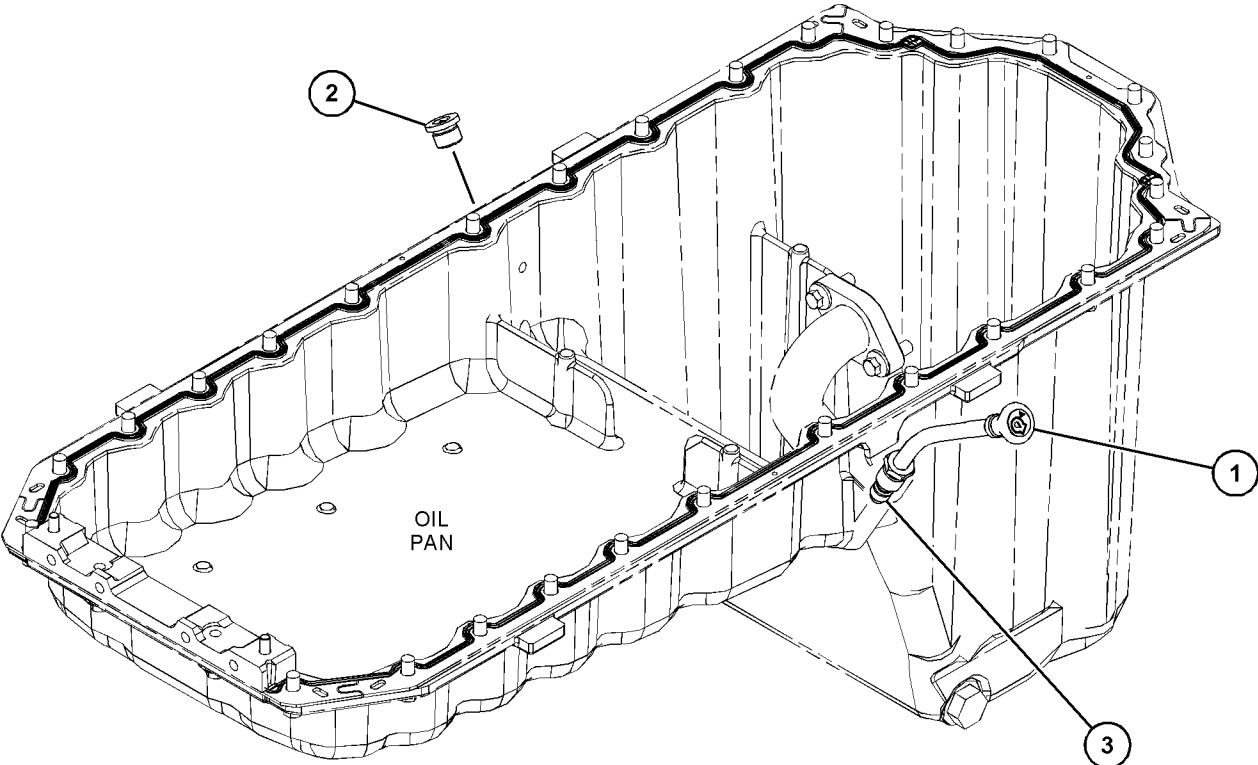
LUBRICATION SYSTEM

439-3378 GAUGE GP-OIL LEVEL (DIPSTICK) GAUGE

SMCS-1326

i05719509

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	353-2637	1	GAUGE GP-OIL LEVEL (DIPSTICK) (ENGINE)						
		1	228-7089	1	SEAL-O-RING						
	2	1	354-8322	1	PLUG						
	3	1	6I-1497	1	SEAL						



GRAPHIC #1

<END>

g03650937

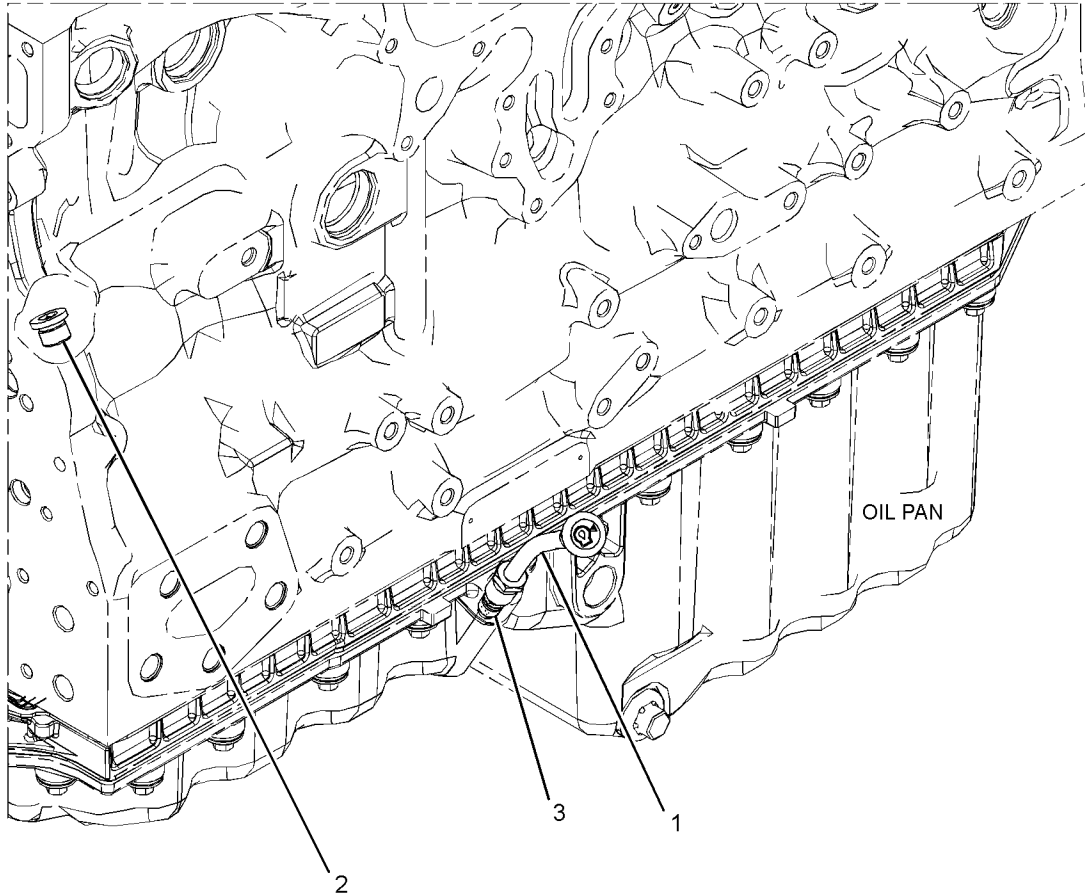
LUBRICATION SYSTEM

439-3430 GAUGE GP-OIL LEVEL (DIPSTICK)

SMCS-1326

i05584311

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	353-2636	1	GAUGE GP-OIL LEVEL (DIPSTICK) (ENGINE)						
	2	1	354-8322	1	PLUG						
	3	1	6I-1497	1	SEAL						



GRAPHIC #1

<END>

g02374478

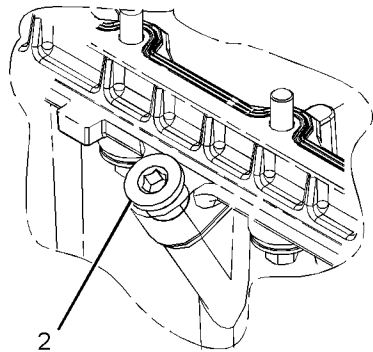
LUBRICATION SYSTEM

439-3431 GAUGE GP-OIL LEVEL (DIPSTICK)

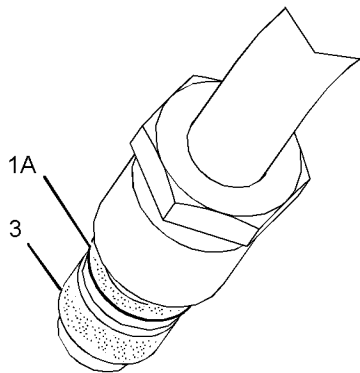
SMCS-1326

i05712550

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	353-2635	1	GAUGE GP-OIL LEVEL (DIPSTICK) (ENGINE)						
	1A	1	228-7089	1	SEAL-O-RING						
	1B	1	275-9891	2	SEAL-O-RING						
	2	1	354-8322	1	PLUG						
	3	1	6I-1497	1	SEAL						

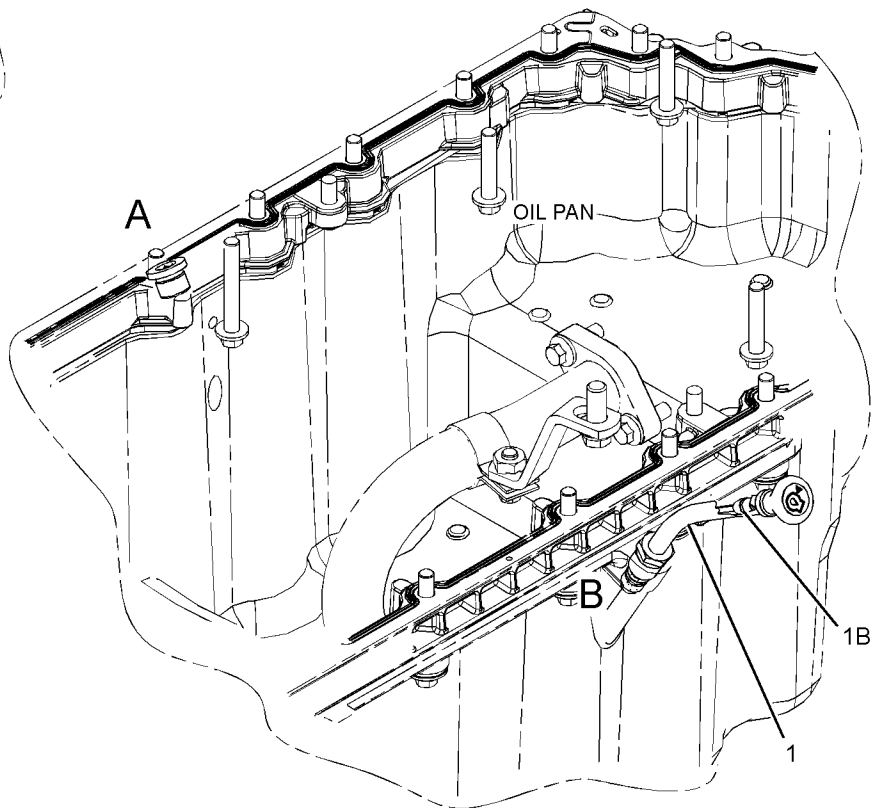


90° VIEW OF AREA A



VIEW OF AREA B

GRAPHIC #1



<END>

g02410896

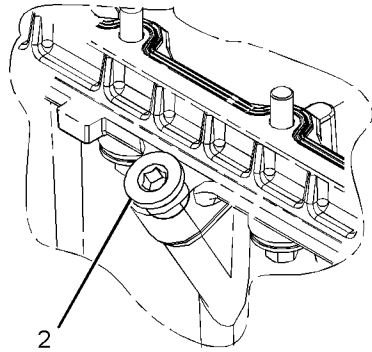
LUBRICATION SYSTEM

439-3432 GAUGE GP-OIL LEVEL (DIPSTICK)

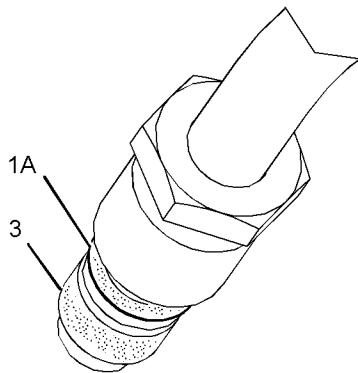
SMCS-1326

i05581237

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	353-2634	1	GAUGE GP-OIL LEVEL (DIPSTICK) (ENGINE)						
	1A	1	228-7089	1	SEAL-O-RING						
	1B	1	275-9891	2	SEAL-O-RING						
	2	1	354-8322	1	PLUG						
	3	1	6I-1497	1	SEAL						

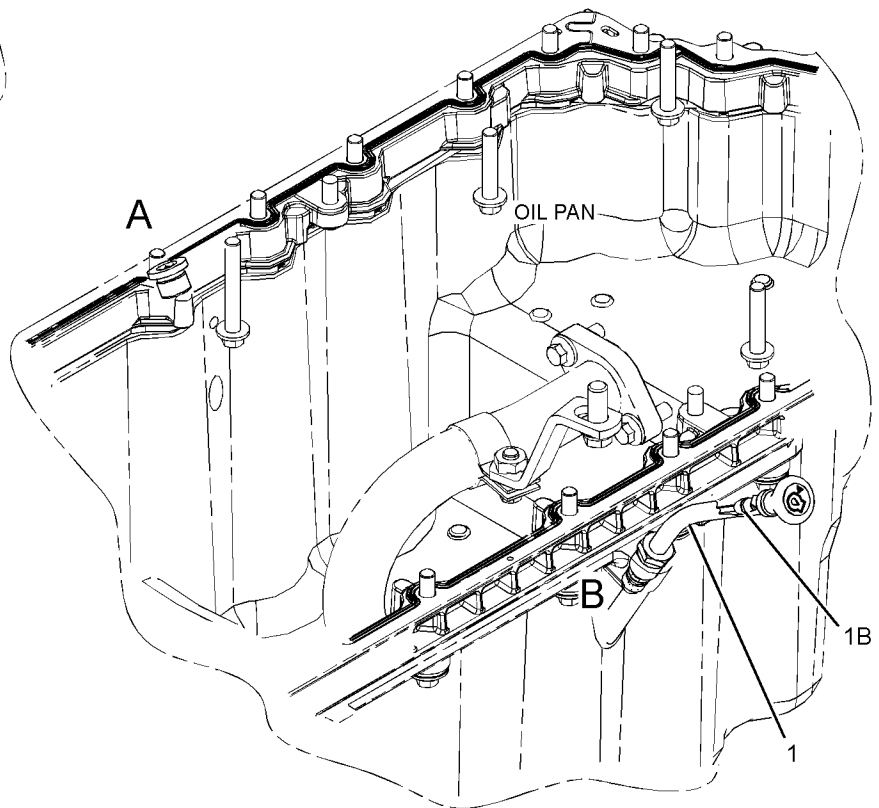


2
90° VIEW OF AREA A



VIEW OF AREA B

GRAPHIC #1



<END>

g02410896

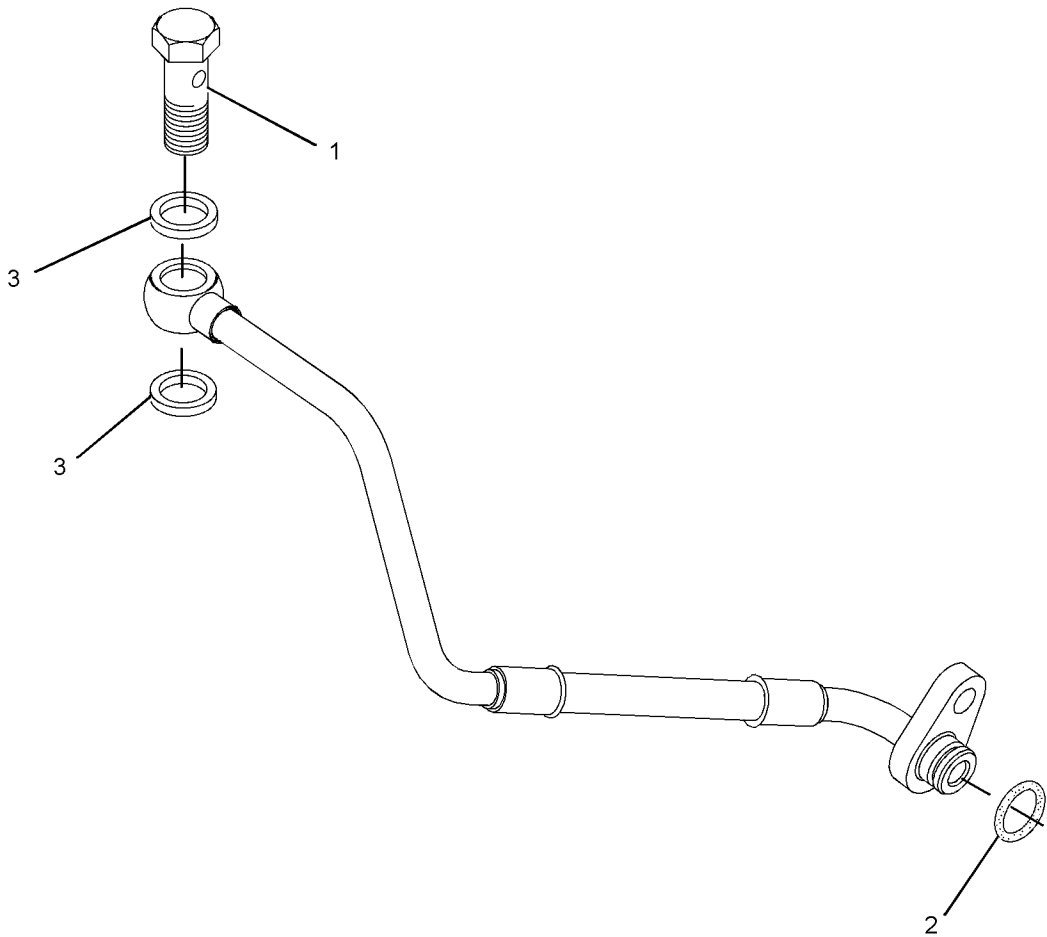
LUBRICATION SYSTEM

368-8559 LINES GP-TURBOCHARGER OIL
PART OF 416-6968, 416-6969 TURBOCHARGER GP

SMCS-1052, 1307

i05717927

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	277-9938	1	BOLT-SPECIAL (BANJO)						
	2	1	277-9940	1	SEAL-O-RING						
	3	1	365-5823	2	WASHER						
M - METRIC PART											



GRAPHIC #1

<END>

g02400339

LUBRICATION SYSTEM

440-0026 PLUG GP-OIL FILTER MOUNTING

SMCS-1306

i05583129

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	225-7941	1	PLUG						
	330-5898	1	SEAL - O - RING						
<END>									

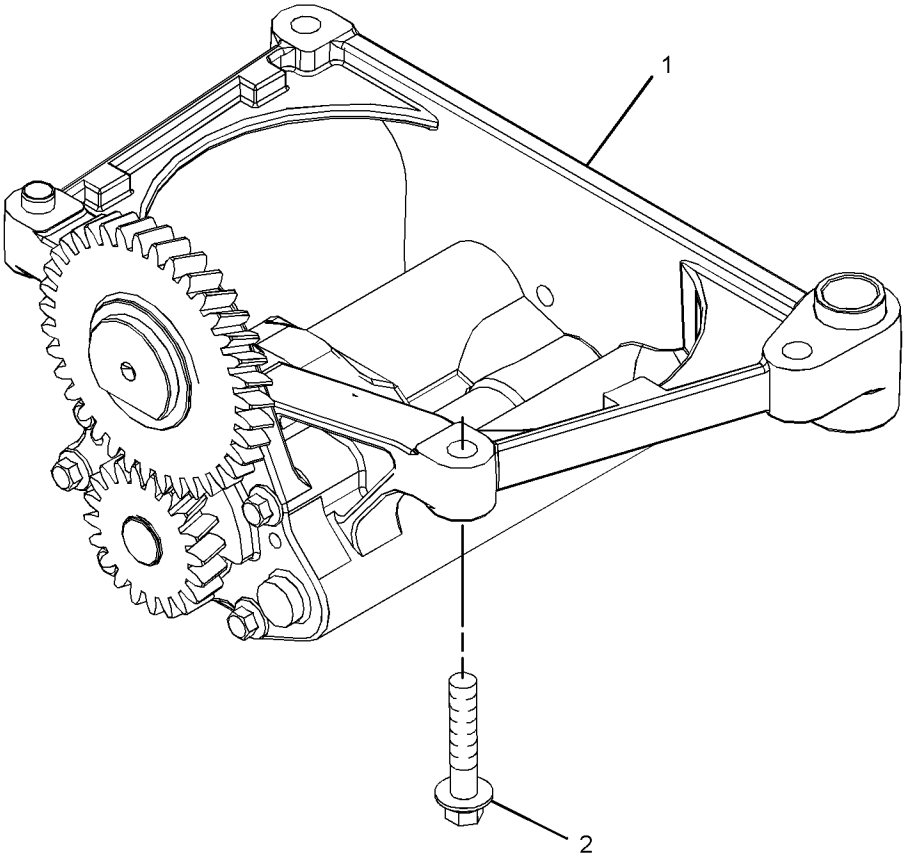
LUBRICATION SYSTEM

346-0737 PUMP GP-ENGINE OIL

SMCS-1304, 1315

i05723741

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	373-8014	1	PUMP-OIL						
M	2	1	6I-1090	4	BOLT (M8X1.25X40-MM)						
M - METRIC PART											



GRAPHIC #1

<END>

g02815299

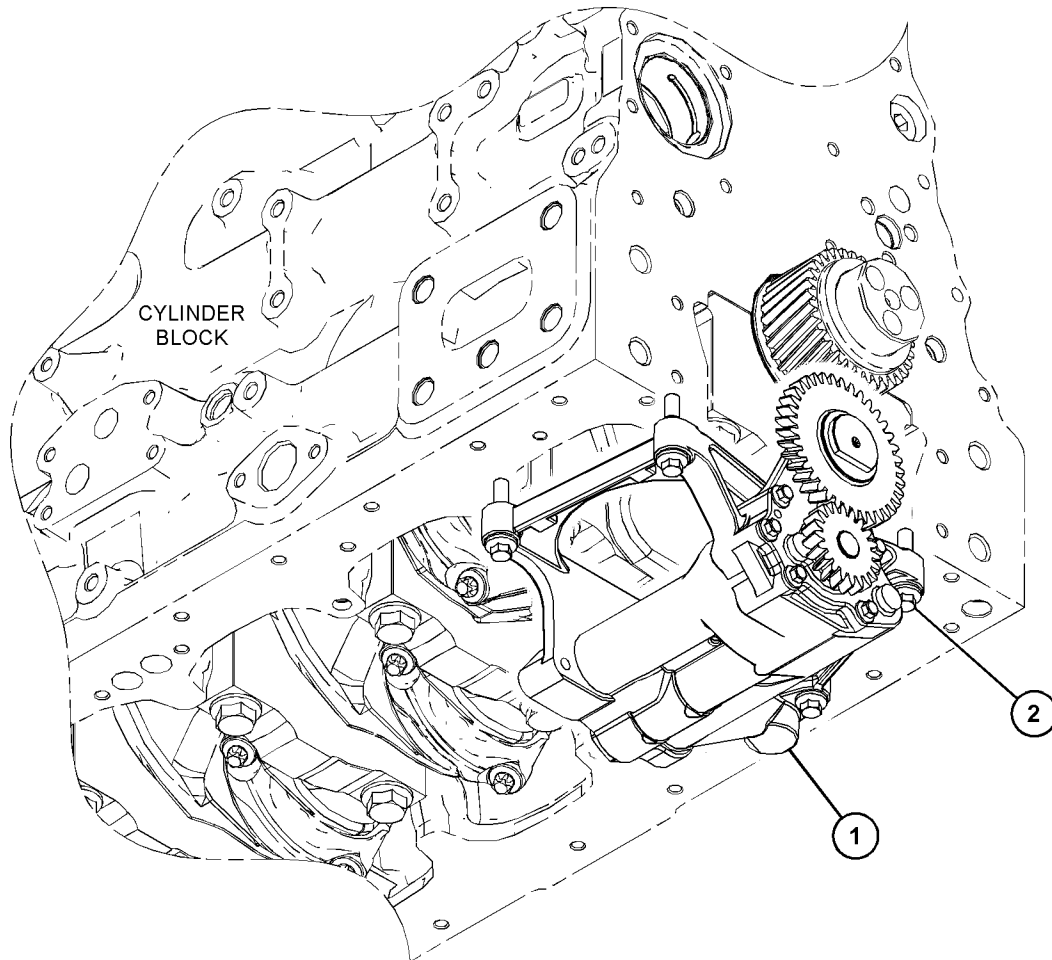
LUBRICATION SYSTEM

462-6685 PUMP GP-ENGINE OIL

SMCS-1304, 1315

i05973444

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	469-5033	1	PUMP AS-ENGINE OIL						
M	2	1	6I-1090	4	BOLT (M8X1.25X40-MM)						
M - METRIC PART											



GRAPHIC #1

<END>

g03797853

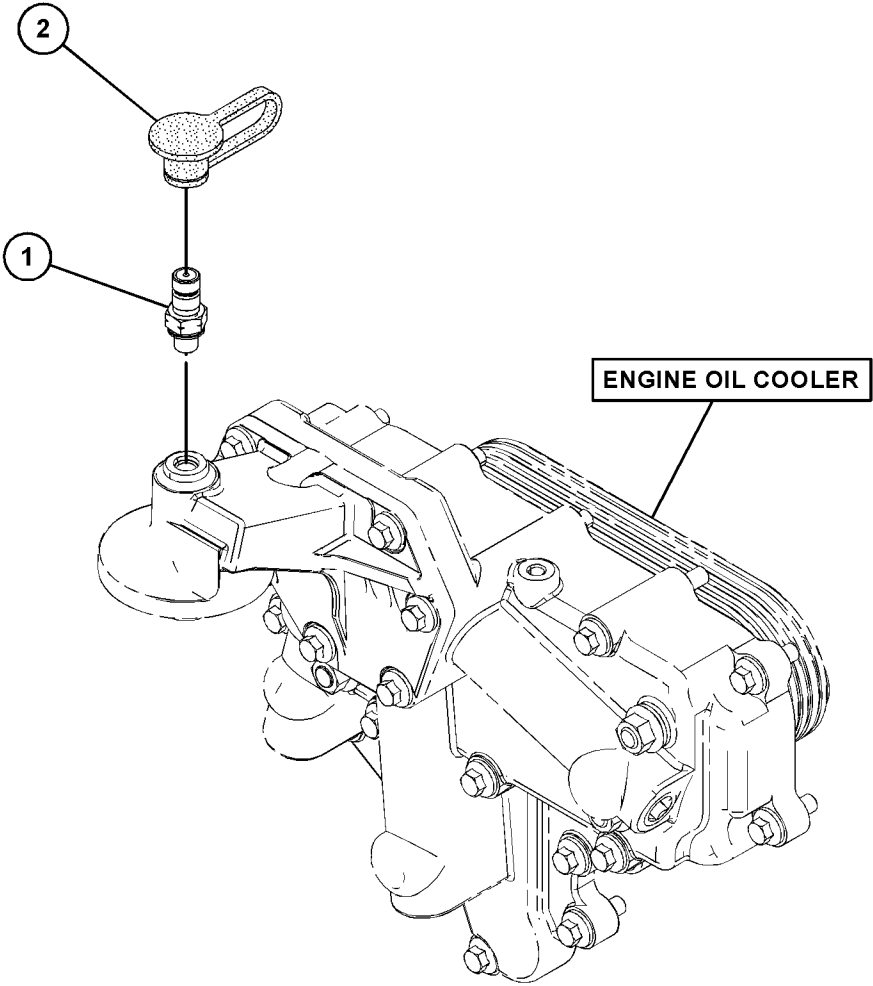
LUBRICATION SYSTEM

371-2745 VALVE GP-FLUID SAMPLING

SMCS-7542

i05723738

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
1	1	1	216-9633	1	VALVE AS-FLUID SAMPLING						
2	1	1	8C-3445	1	CAP-DUST						



GRAPHIC #1

<END>

g03178016

COOLING SYSTEM

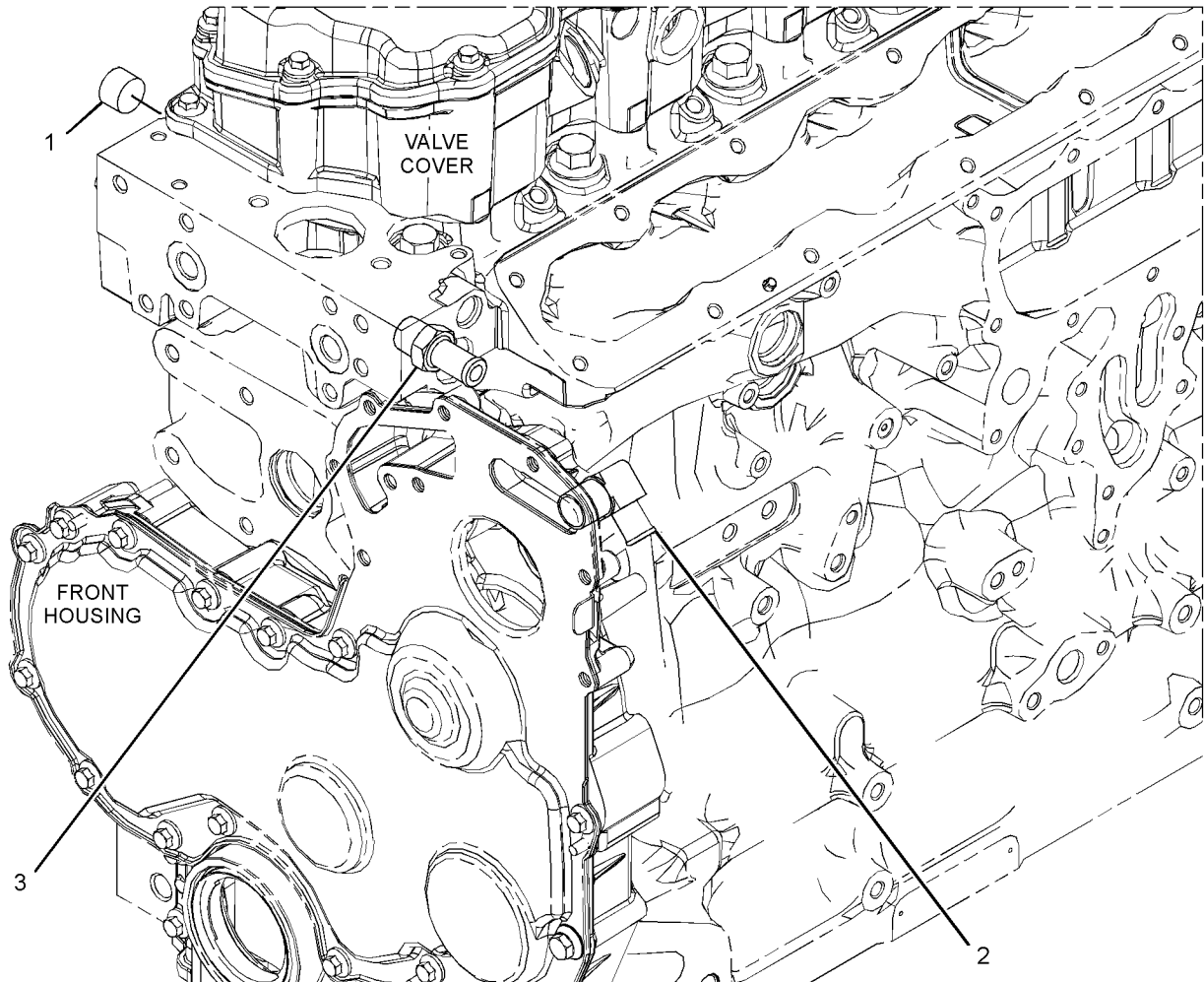
346-2911 CONNECTION GP-HEATER

FOR USE WITH OPTIONAL CUSTOMER CONNECTION FOR CAB HEATER

SMCS-1333, 1380, 1383

i05582482

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	067-6823	1	PLUG						
	2	1	9X-3959	1	ELBOW						
	3	1	7W-4669	1	ADAPTER						



GRAPHIC #1

<END>

g03105759

COOLING SYSTEM

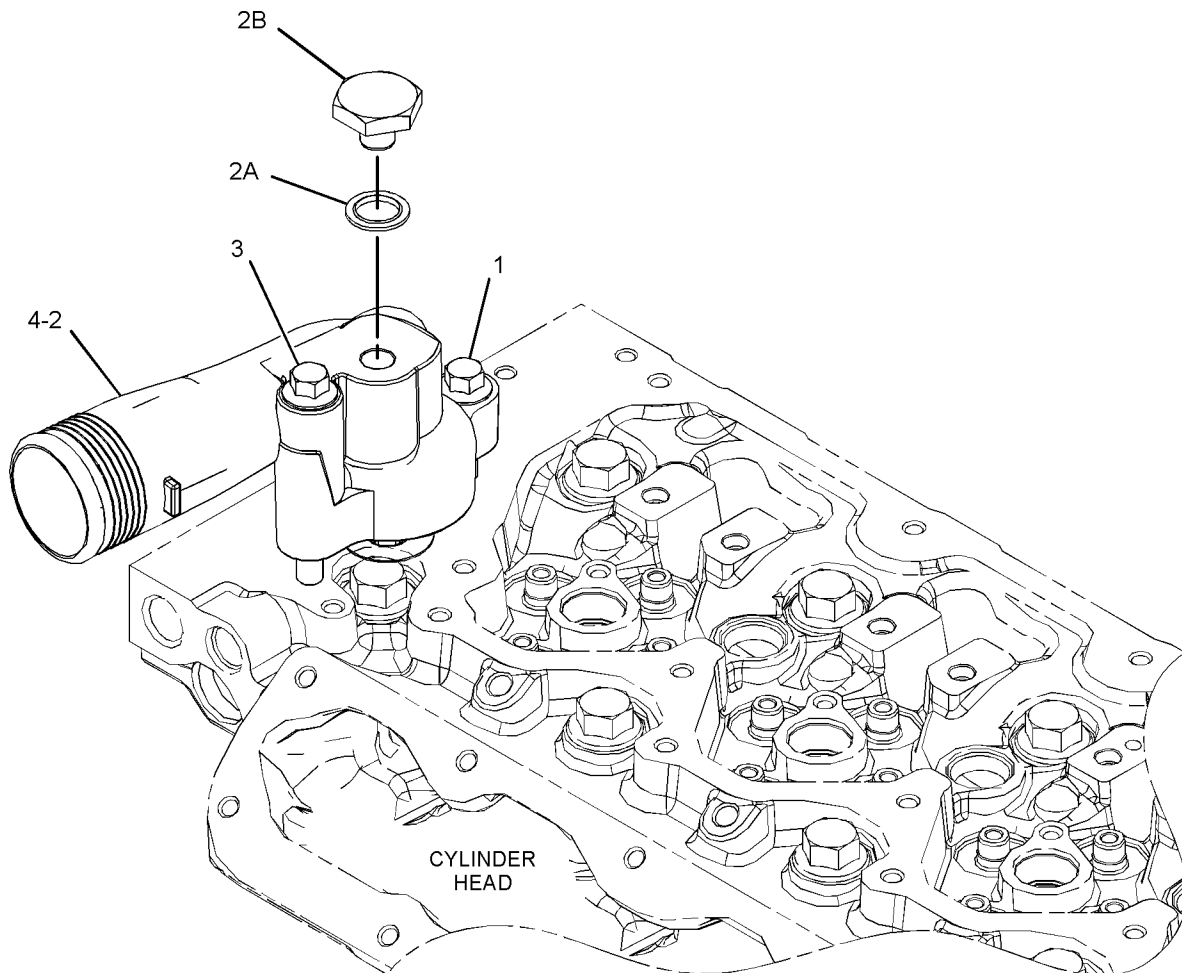
373-3606 CONNECTION GP-WATER

SMCS-1380

i05752984

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	123-2899	1	BOLT (M10X1.5X40-MM)						
	2	1	367-1817	1	CONNECTION AS (INCLUDES TEMPERATURE REGULATOR)						
	2A	1	367-8509	1	SEAL-BONDED						
	2B	1	367-8512	1	PLUG						
M	3	1	103-5687	1	BOLT (M10X1.5X85-MM)						
	4	1	281-8744	1	GASKET-WATER REGULATOR						

M - METRIC PART



GRAPHIC #1

<END>

g03483203

COOLING SYSTEM

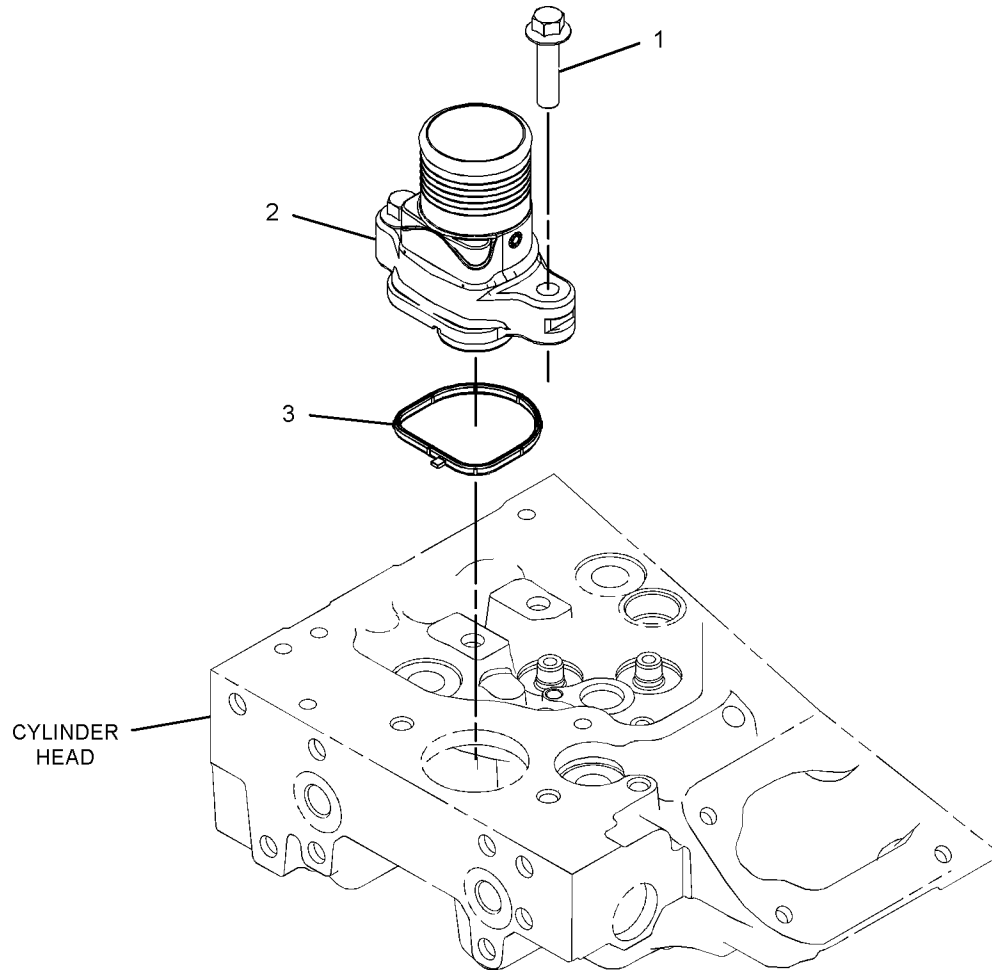
373-3607 CONNECTION GP-WATER

SMCS-1380

i05723841

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	123-2899	2	BOLT (M10X1.5X40-MM)						
	2	1	417-7782	1	REGULATOR AS-WATER TEMPERATURE (INCLUDES CONNECTOR)						
	3	1	281-8744	1	GASKET-WATER REGULATOR (TEMPERATURE)						

M - METRIC PART



GRAPHIC #1

<END>

g03341487

COOLING SYSTEM

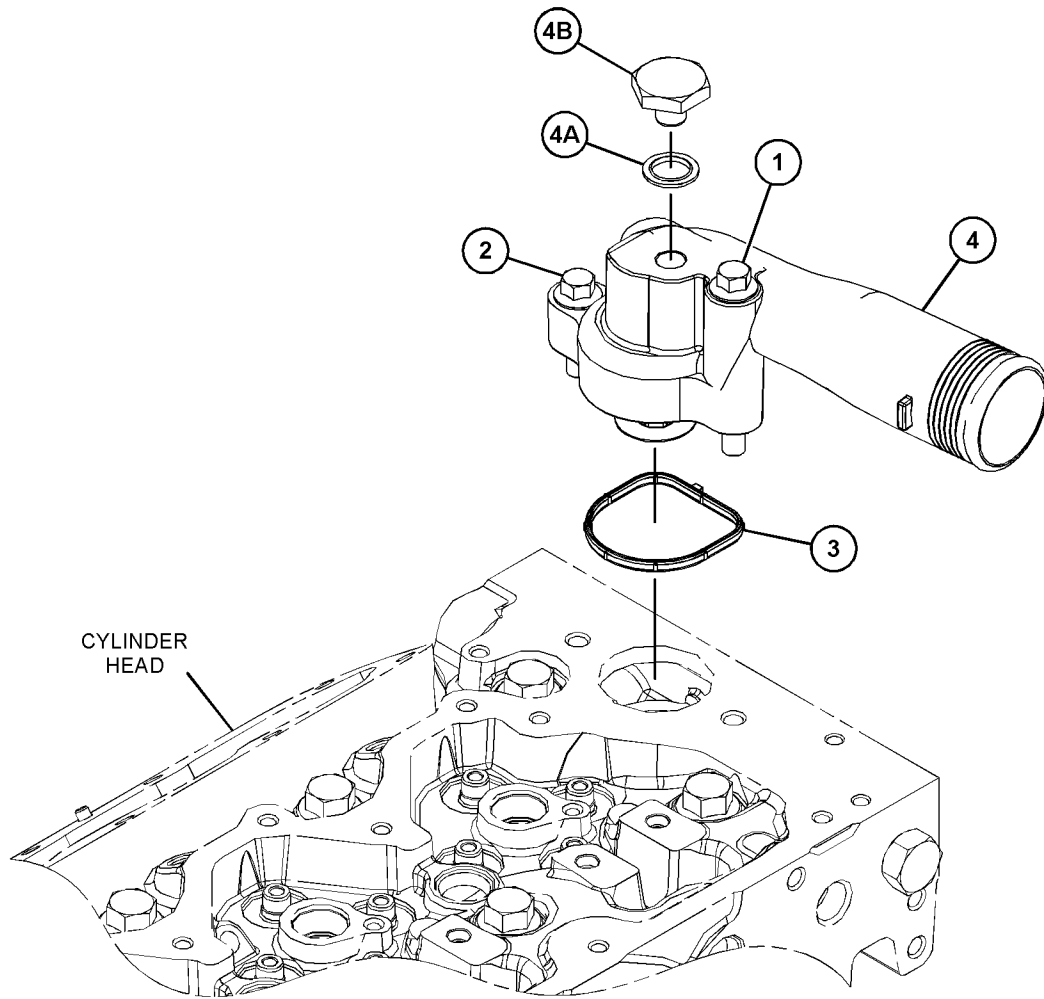
378-8581 CONNECTION GP-WATER

SMCS-1380

i05733051

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	103-5687	1	BOLT (M10X1.5X85-MM)						
M	2	1	123-2899	1	BOLT (M10X1.5X40-MM)						
	3	1	281-8744	1	GASKET-WATER REGULATOR						
	4	1	357-8714	1	CONNECTION AS						
	4A	1	367-8509	1	SEAL-BONDED						
	4B	1	367-8512	1	PLUG						

M - METRIC PART



CYLINDER HEAD

GRAPHIC #1

<END>

g03650362

COOLING SYSTEM

419-3606 COOLER AS-OIL

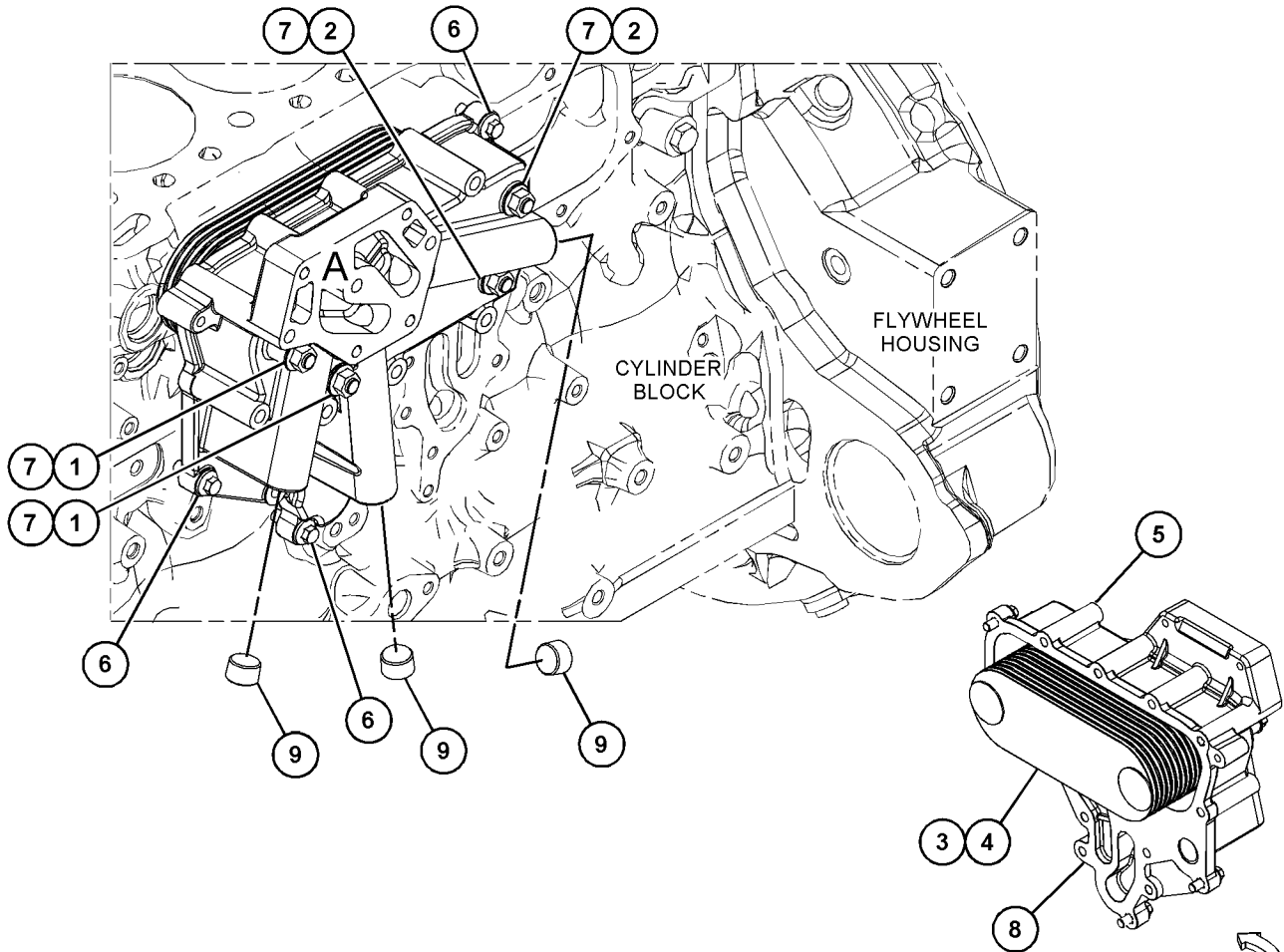
PART OF 378-8283 COOLER GP-ENGINE OIL

SMCS-3320

i05881440

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	100-4003	2	STUD (M10X1.5X35-MM)						
	2	1	102-9909	2	STUD (M10X1.5X25-MM)						
	3	1	351-8206	2	SEAL						
	4	1	419-3607	1	COOLER						
	5	1	419-3608	1	HOUSING						
M	6	1	6I-0260	4	BOLT (M8X1.25X25-MM)						
M	7	1	6I-0594	4	NUT (M10X1.5-THD)						
	8	1	277-2500	1	GASKET						
	9	1	277-2503	3	PLUG						

M - METRIC PART



GRAPHIC #1

<END>

VIEW OF AREA A



g03562236

COOLING SYSTEM

326-7401 COOLER GP-ENGINE OIL

PART OF 346-0091, 346-0097 COOLER GP-ENGINE OIL

SMCS-1378

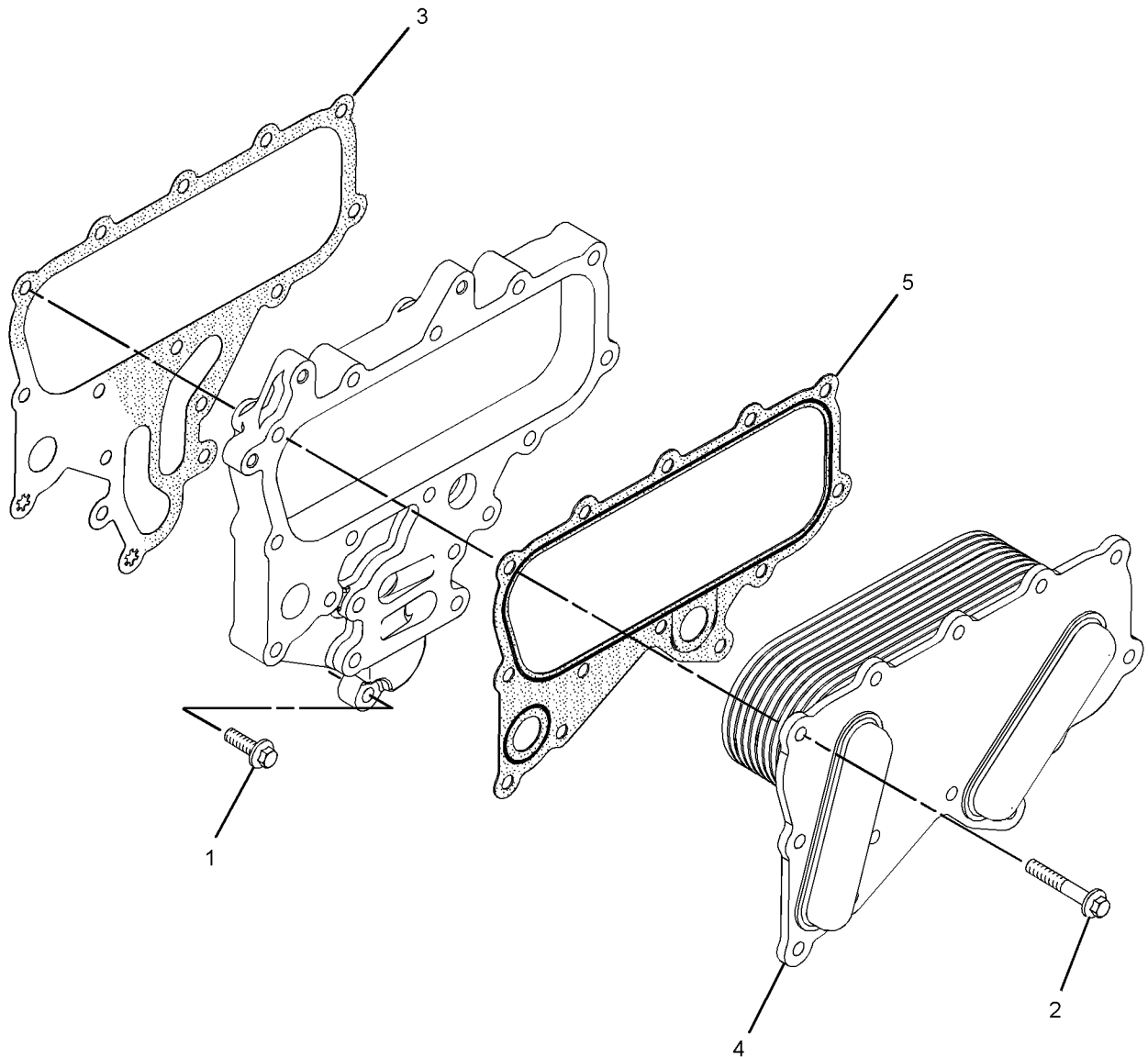
i05644584

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0260	1	BOLT (M8X1.25X25-MM)						
	2	1	6I-4793	6	BOLT (M8X1.25X50-MM)						
	3	1	277-2500	1	GASKET						
	4	1	281-7039	1	COOLER-OIL (ENGINE)						
	5	1	281-7040	1	GASKET						
M - METRIC PART											

COOLING SYSTEM

326-7401 COOLER GP-ENGINE OIL (contd.)

i05644584



GRAPHIC #1

<END>

g01508024

COOLING SYSTEM

326-7402 COOLER GP-ENGINE OIL

PART OF 378-8280, 443-3790 COOLER GP-ENGINE OIL

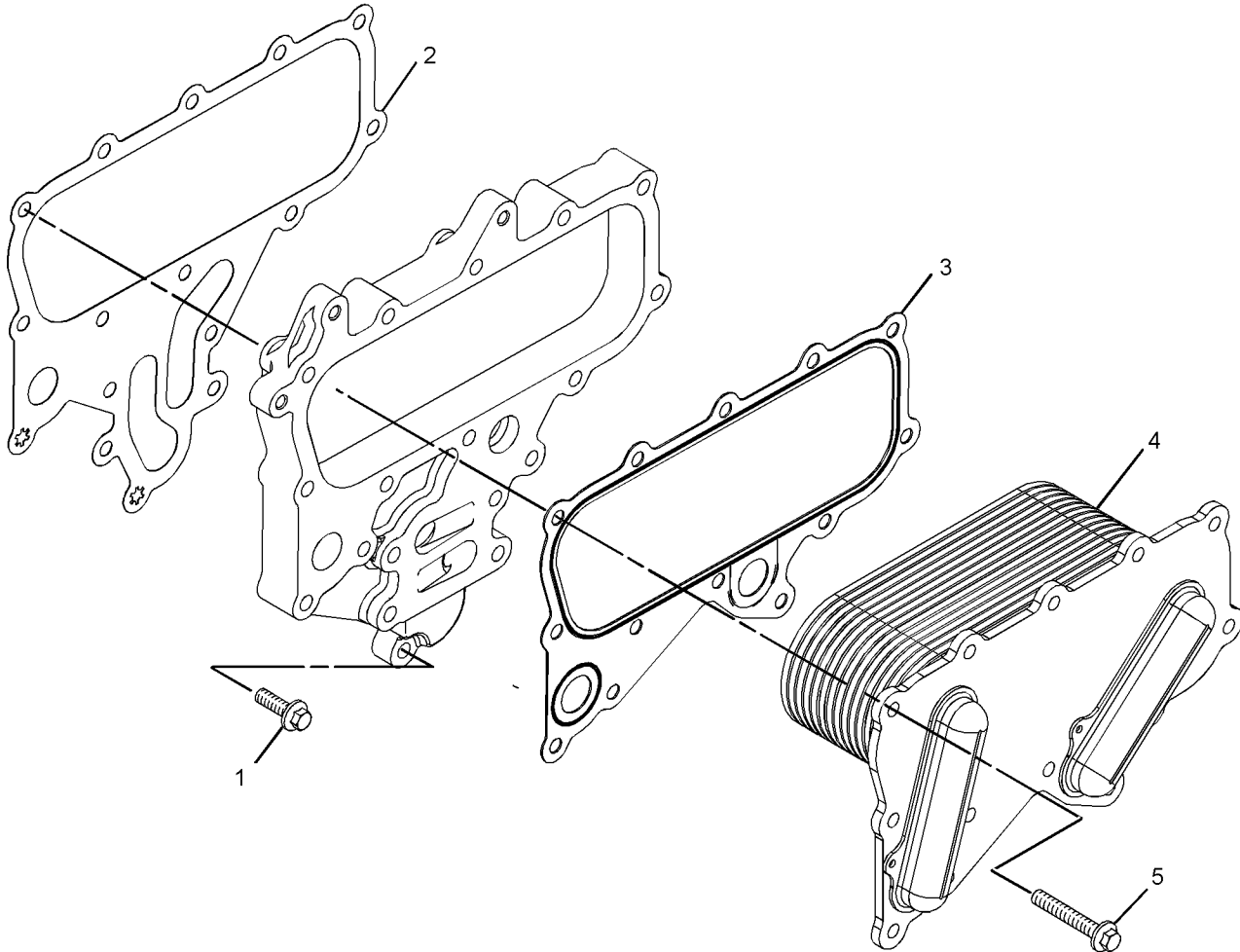
SMCS-1378

i05705749

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0260	3	BOLT (M8X1.25X25-MM)						
	2	1	277-2500	1	GASKET						
	3	1	281-7040	1	GASKET						
	4	1	287-7424	1	COOLER AS-OIL						
M	5	1	6I-0839	4	BOLT (M8X1.25X70-MM)						

PARTS SHOWN IN GRAPHIC(S) WITHOUT A REFERENCE NUMBER ARE NOT SERVICED SEPARATELY

M - METRIC PART



GRAPHIC #1

<END>

g03654496

COOLING SYSTEM

346-0091 COOLER GP-ENGINE OIL

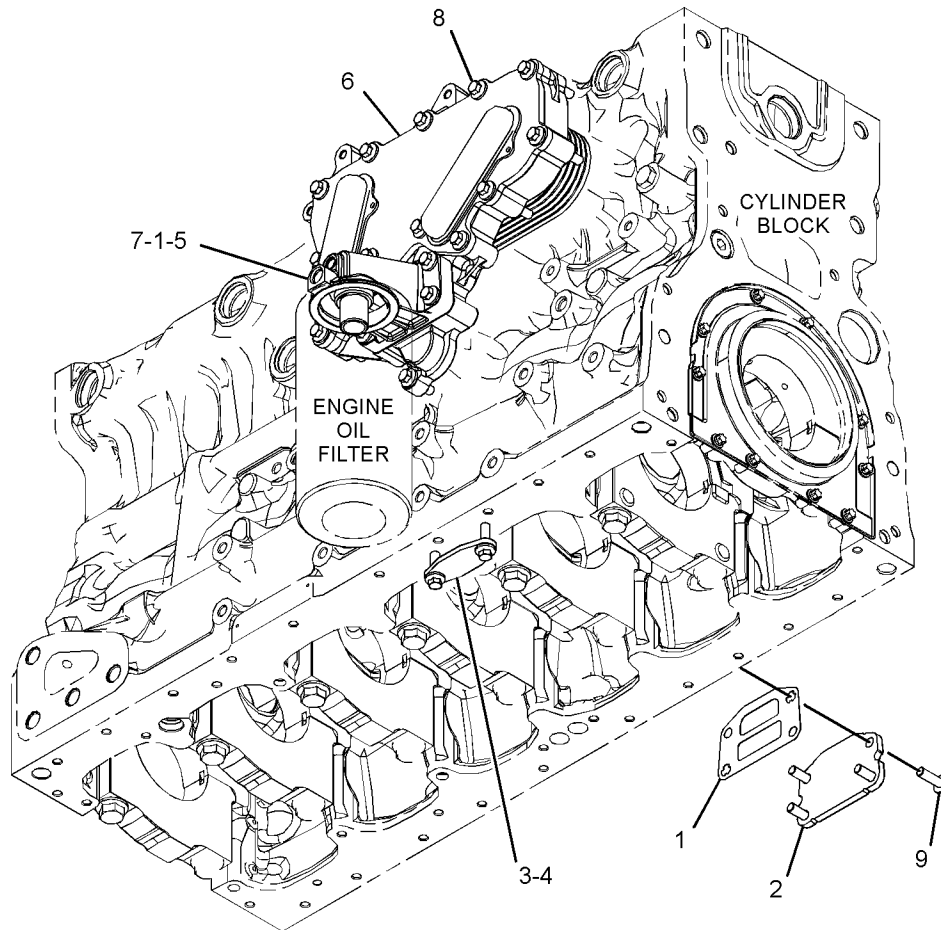
SMCS-1378

i05964205

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	225-7944	2	GASKET						
	2	1	232-3751	1	PLATE						
	3	1	277-2537	1	PLATE						
M	4	1	6I-0217	6	BOLT (M8X1.25X20-MM)						
	5	1	283-4559	1	HEAD AS-OIL FILTER						
Y	6	1	326-7401	1	COOLER GP-ENGINE OIL						160
M	7	1	6I-0455	4	BOLT (M8X1.25X55-MM)						
	8	1	6I-4793	7	BOLT (M8X1.25X50-MM)						

M - METRIC PART

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03743771

COOLING SYSTEM

346-0097 COOLER GP-ENGINE OIL

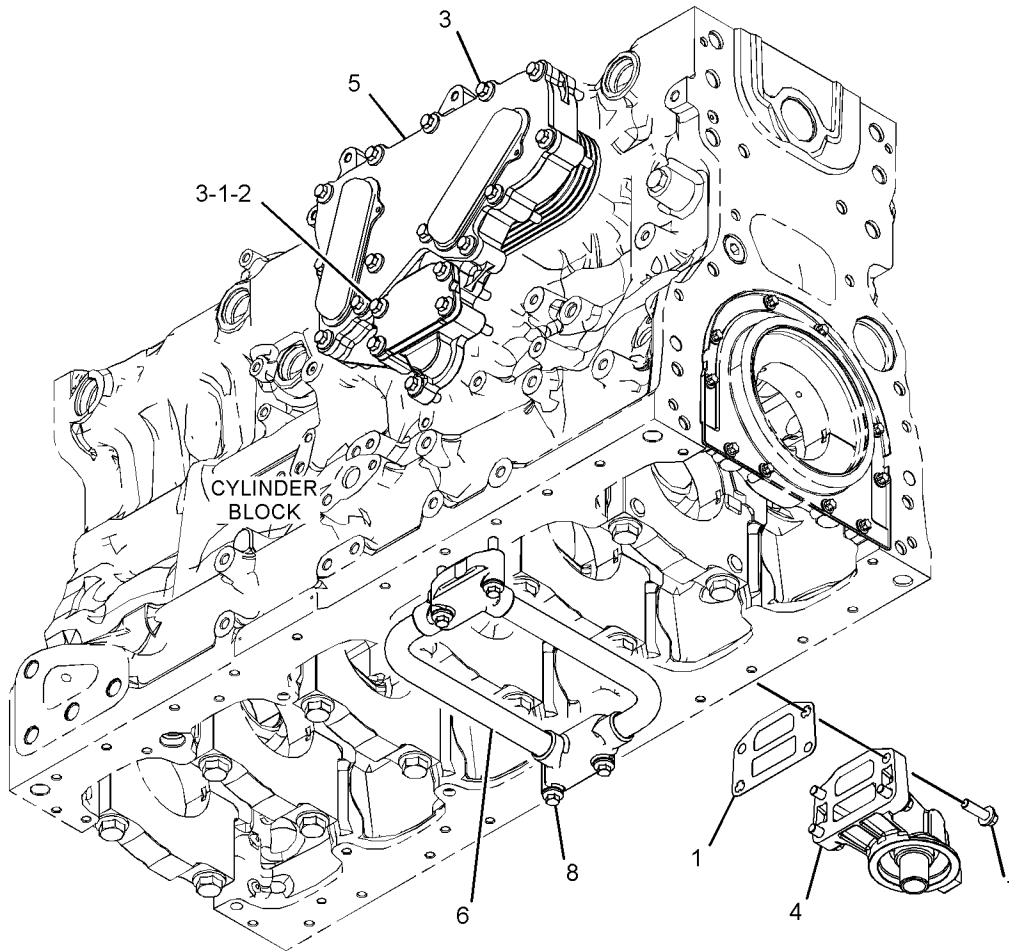
SMCS-1378

i05982191

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	225-7944	2	GASKET						
	2	1	232-3751	1	PLATE						
	3	1	6I-4793	11	BOLT (M8X1.25X50-MM)						
	4	1	283-4559	1	HEAD AS-OIL FILTER						
Y	5	1	326-7401	1	COOLER GP-ENGINE OIL						160
	6	1	367-7142	1	TUBE AS-OIL						
M	7	1	6I-0260	4	BOLT (M8X1.25X25-MM)						
	8	1	6I-0456	4	BOLT (M8X1.25X45-MM)						

M - METRIC PART

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03776103

COOLING SYSTEM

378-8276 COOLER GP-ENGINE OIL

SMCS-1378

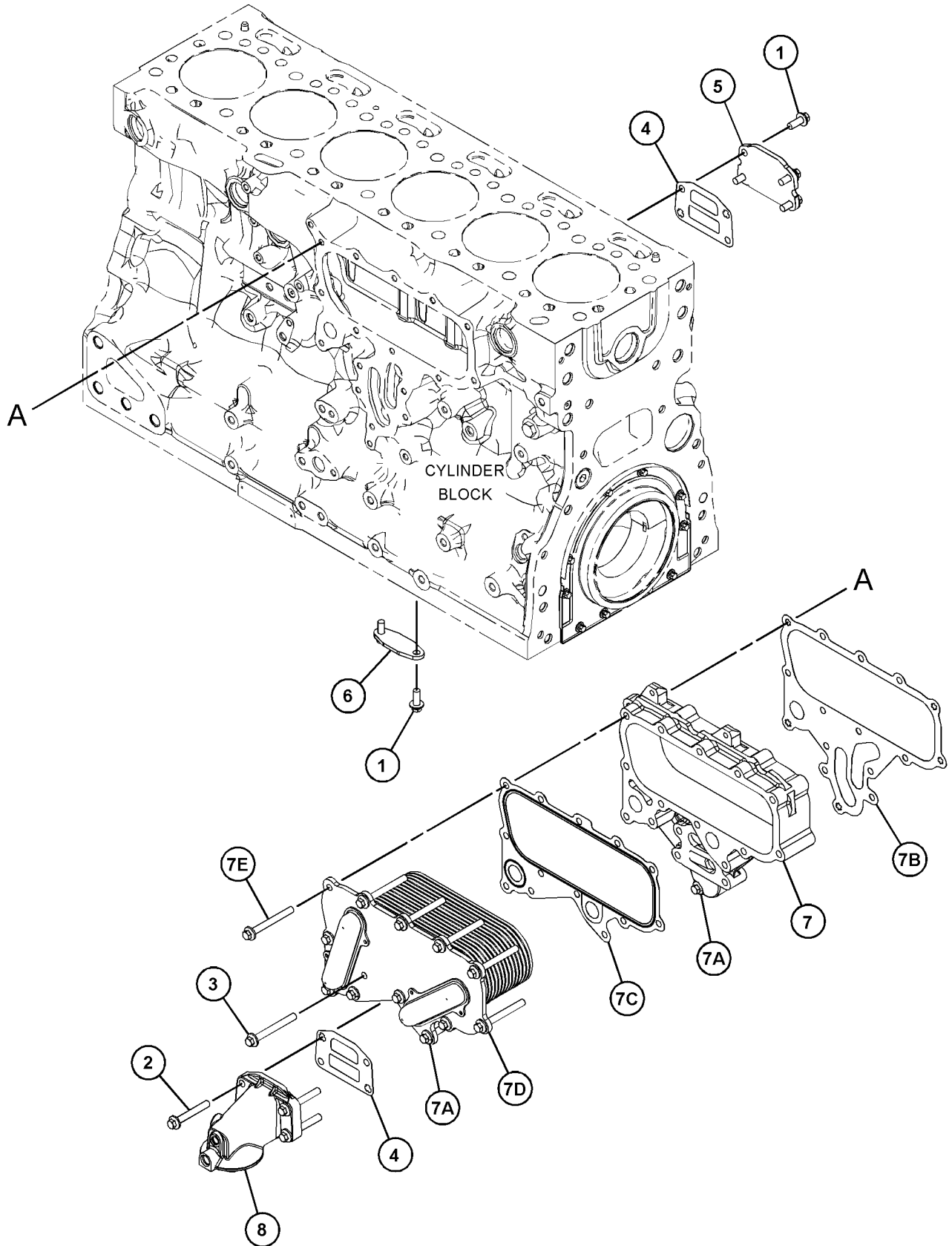
i05901369

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0217	6	BOLT (M8X1.25X20-MM)						
M	2	1	6I-0455	4	BOLT (M8X1.25X55-MM)						
M	3	1	6I-0839	7	BOLT (M8X1.25X70-MM)						
	4	1	225-7944	2	GASKET (ENGINE OIL FILTER BASE)						
	5	1	232-3751	1	PLATE (BLANKING)						
	6	1	277-2537	1	PLATE						
	7	1	326-7402	1	COOLER GP-ENGINE OIL (ENGINE)						
M	7A	1	6I-0260	3	BOLT (M8X1.25X25-MM)						
	7B	1	277-2500	1	GASKET (HOUSING)						
	7C	1	281-7040	1	GASKET						
	7D	1	287-7424	1	COOLER AS-OIL (ENGINE)						
M	7E	1	6I-0839	4	BOLT (M8X1.25X70-MM)						
	8	1	283-4559	1	HEAD AS-OIL FILTER (ENGINE)						
M - METRIC PART											

COOLING SYSTEM

378-8276 COOLER GP-ENGINE OIL (contd.)

i05901369



GRAPHIC #1

<END>

g03724883

COOLING SYSTEM

378-8280 COOLER GP-ENGINE OIL

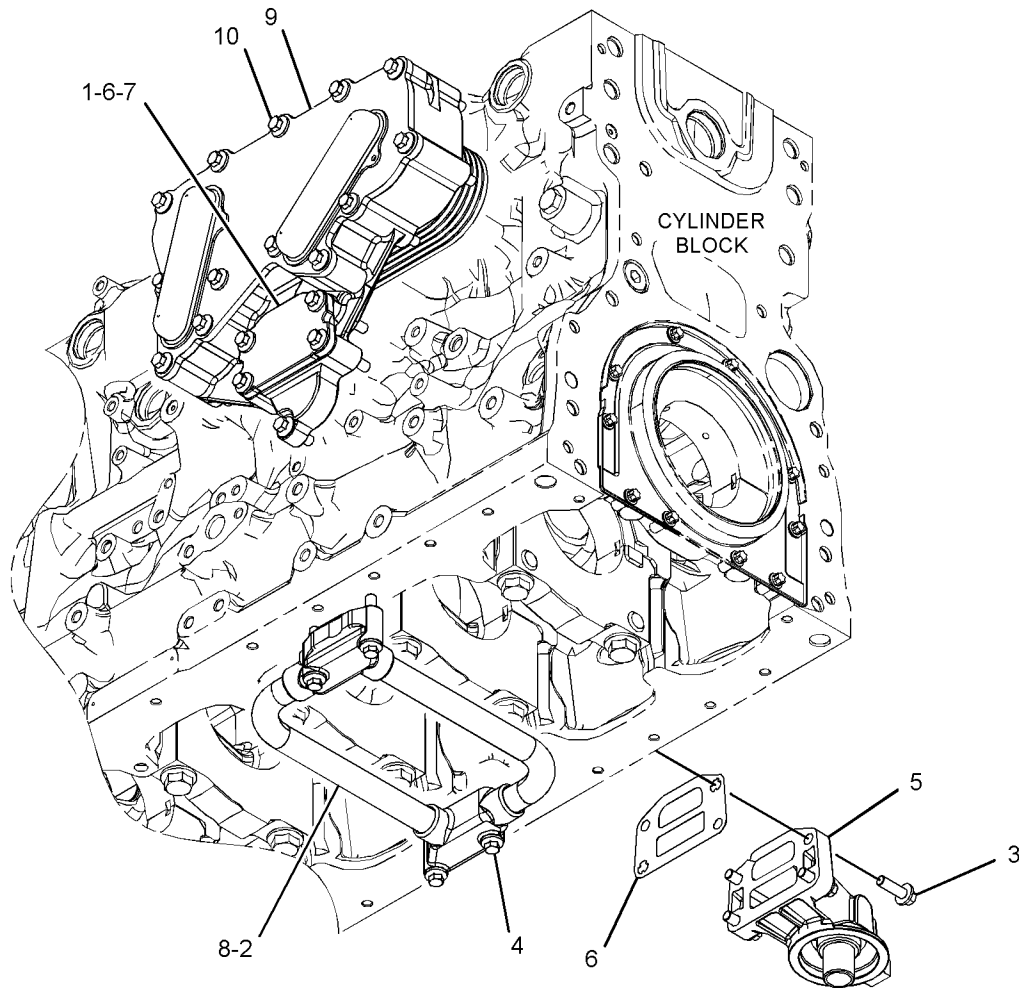
SMCS-1378

i05735527

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-4793	4	BOLT (M8X1.25X50-MM)						
	2	1	367-7142	1	TUBE AS-OIL						
M	3	1	6I-0260	4	BOLT (M8X1.25X25-MM)						
	4	1	6I-0456	4	BOLT (M8X1.25X45-MM)						
	5	1	283-4559	1	HEAD AS-OIL FILTER						
	6	1	225-7944	2	GASKET						
	7	1	232-3751	1	PLATE						
	8	1	277-2538	2	GASKET						
Y	9	1	326-7402	1	COOLER GP-ENGINE OIL						162
M	10	1	6I-0839	7	BOLT (M8X1.25X70-MM)						

M - METRIC PART

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03665477

COOLING SYSTEM

378-8283 COOLER GP-ENGINE OIL

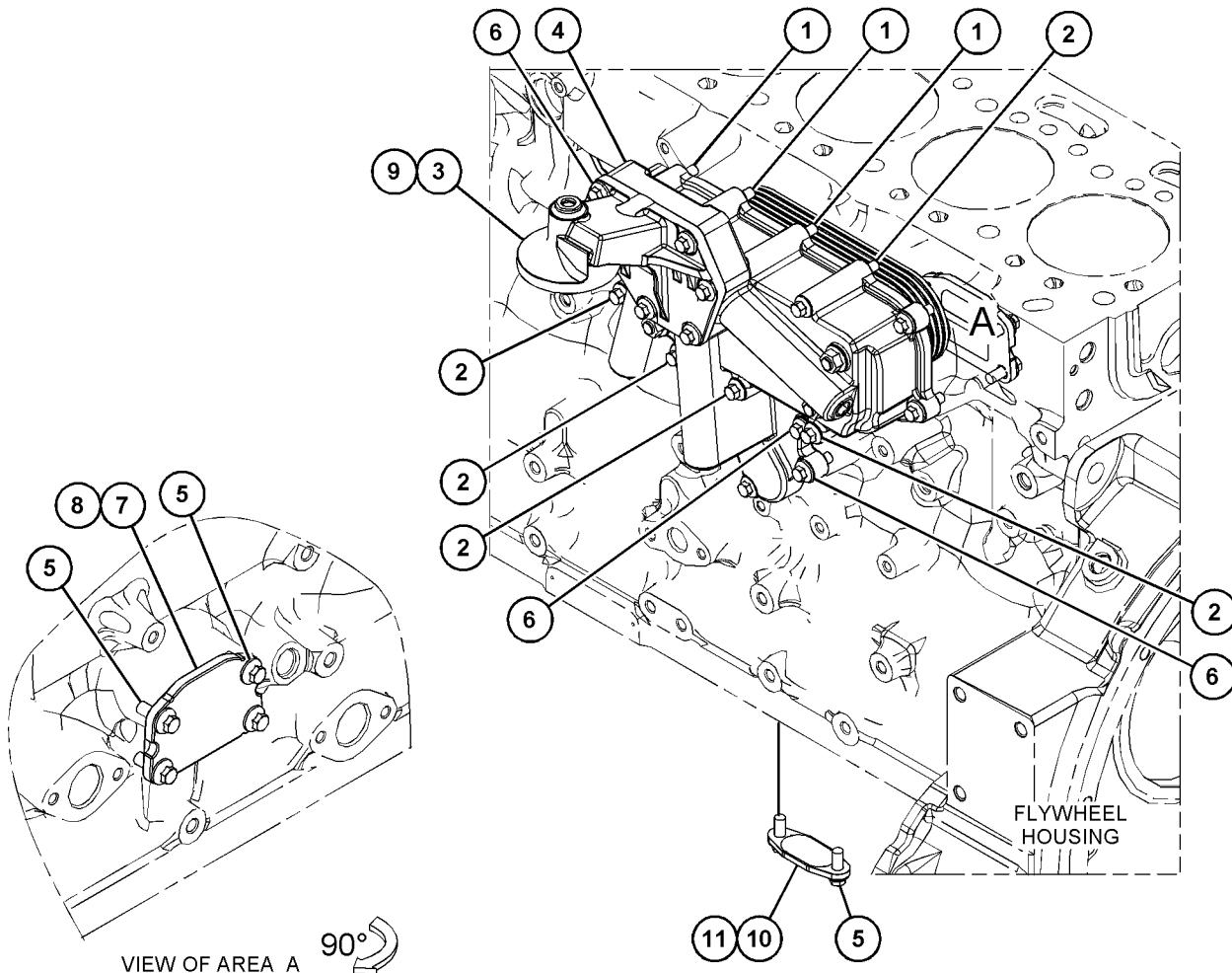
SMCS-1378

i05712391

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	103-5705	3	BOLT (M8X1.25X110-MM)						
	2	1	113-8129	5	BOLT (M8X1.25X75-MM)						
	3	1	277-2525	1	HEAD AS-OIL FILTER						
Y	4	1	419-3606	1	COOLER AS-OIL						159
M	5	1	6I-0217	6	BOLT (M8X1.25X20-MM)						
M	6	1	6I-0260	8	BOLT (M8X1.25X25-MM)						
	7	1	225-7944	1	GASKET						
	8	1	232-3751	1	PLATE						
	9	1	277-2526	1	GASKET-FILTER						
	10	1	277-2537	1	PLATE						
	11	1	277-2538	1	GASKET						

M - METRIC PART

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03565938

COOLING SYSTEM

443-3790 COOLER GP-ENGINE OIL

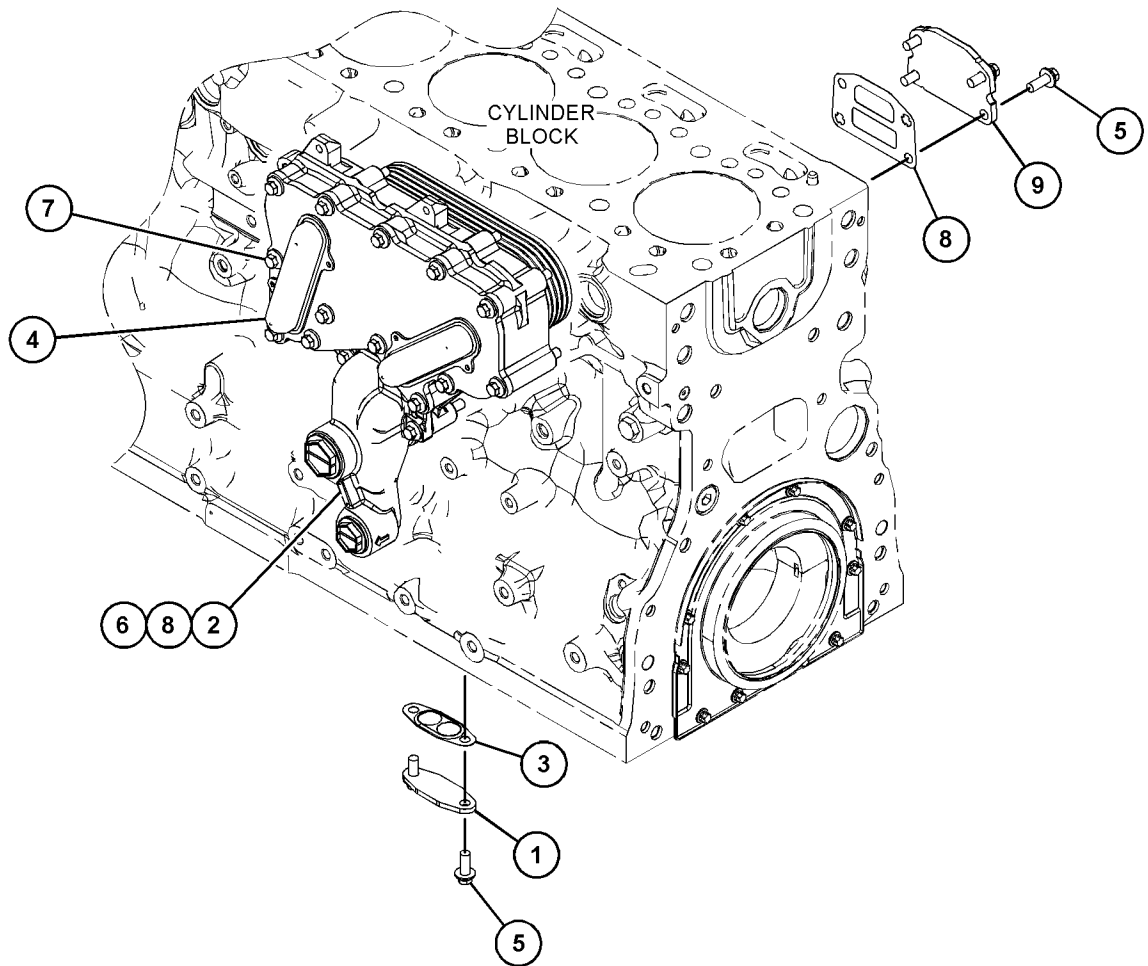
SMCS-1378

i05718170

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	277-2537	1	PLATE						
	2	1	340-4212	1	ADAPTER						
	3	1	277-2538	1	GASKET						
Y	4	1	326-7402	1	COOLER GP-ENGINE OIL						162
M	5	1	6I-0217	6	BOLT (M8X1.25X20-MM)						
M	6	1	6I-0455	4	BOLT (M8X1.25X55-MM)						
M	7	1	6I-0839	7	BOLT (M8X1.25X70-MM)						
	8	1	225-7944	2	GASKET						
	9	1	232-3751	1	PLATE						

M - METRIC PART

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03650599

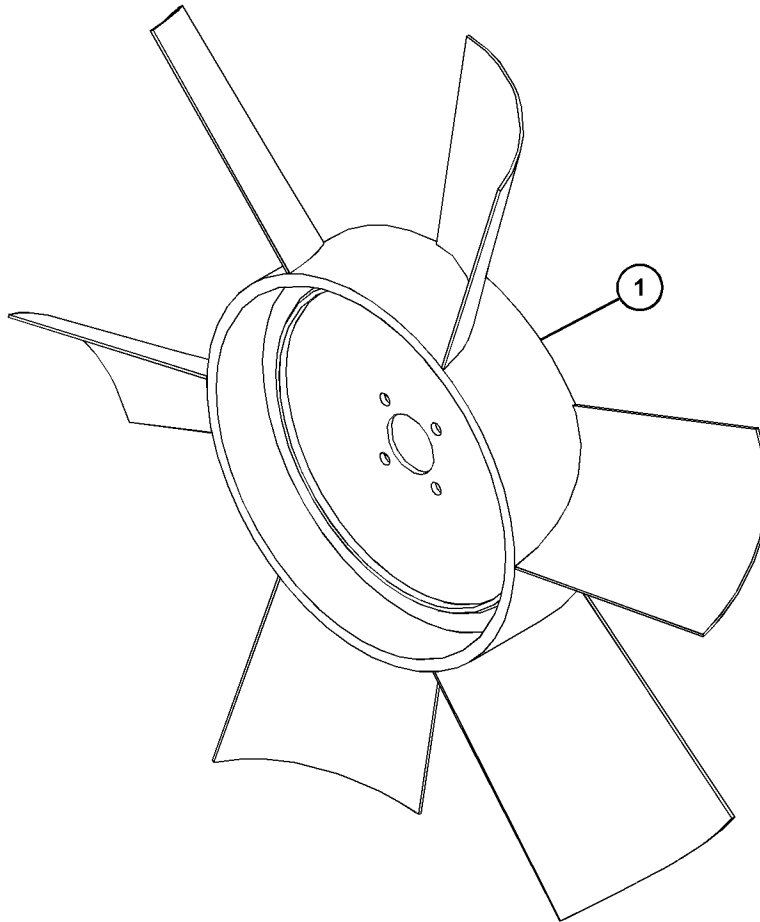
COOLING SYSTEM

454-5203 FAN AS

SMCS-1356

i05859135

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	293-9235	1	FAN						



GRAPHIC #1

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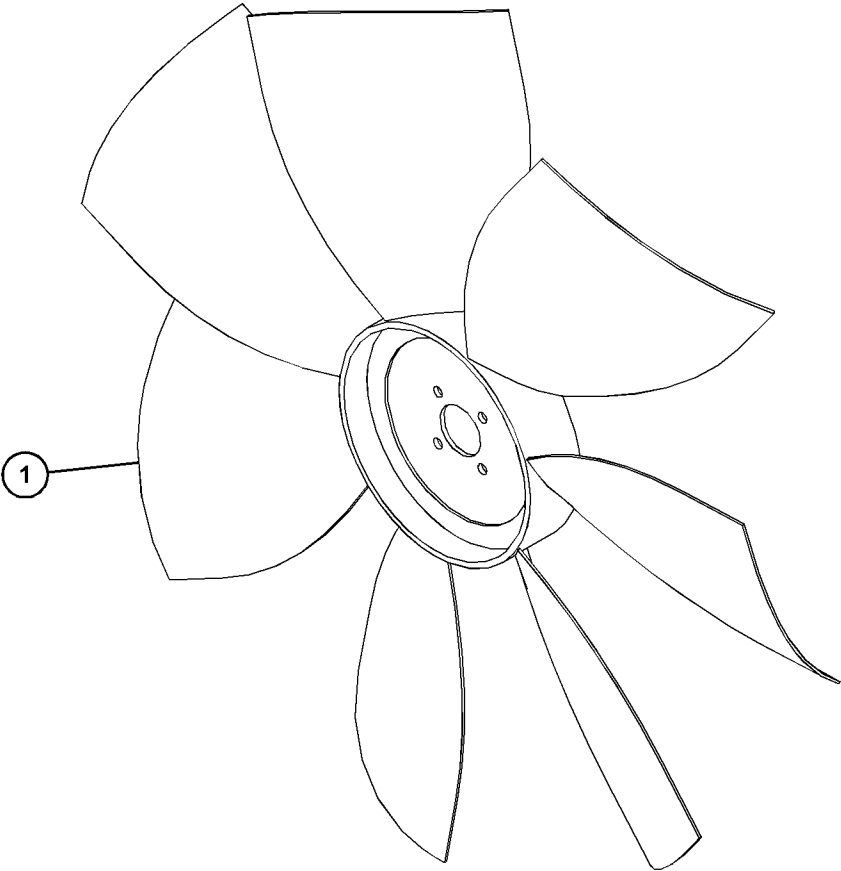
COOLING SYSTEM

375-4574 FAN GP

SMCS-1356

i05845076

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	294-0366	1	FAN						



GRAPHIC #1

<END>

g03696607

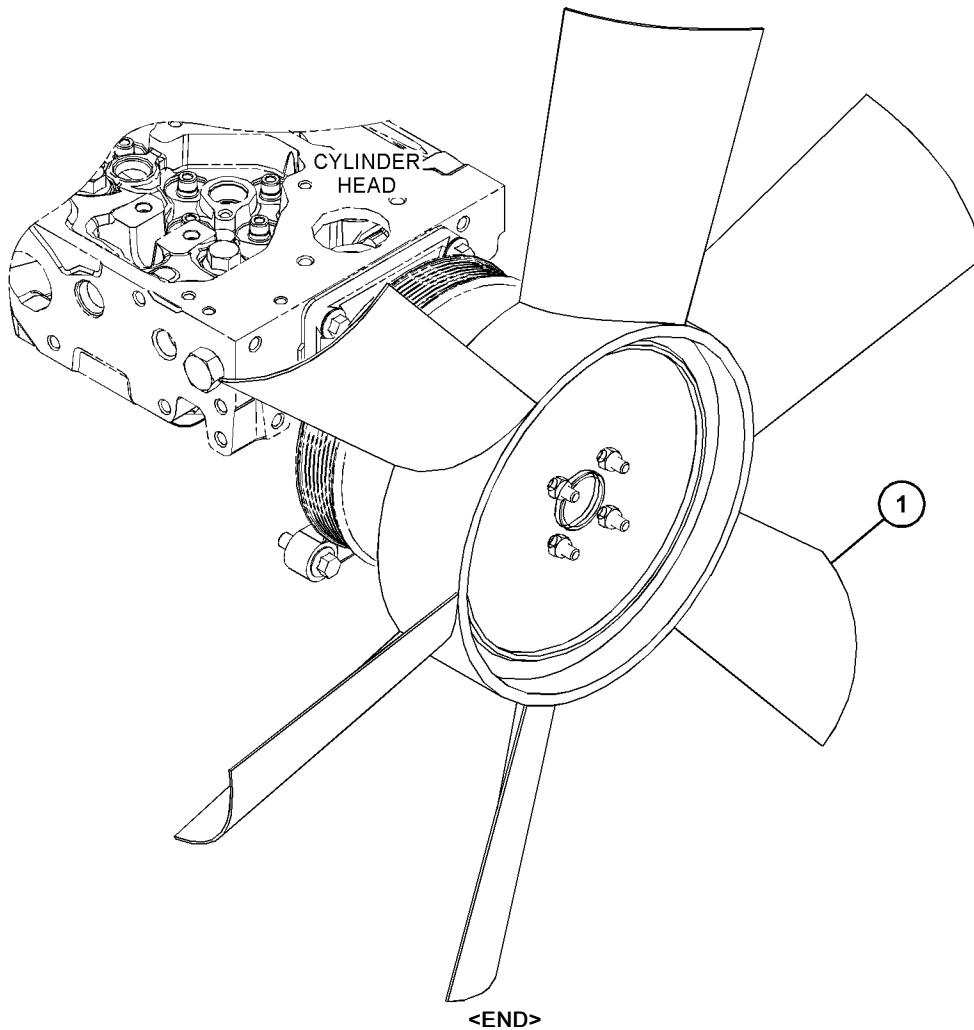
COOLING SYSTEM

378-0627 FAN GP

SMCS-1356

i05726738

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	293-8067	1	FAN						



COOLING SYSTEM

452-3651 FAN GP

SMCS-1356

i05949434

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	293-9736	1	FAN						
<END>									

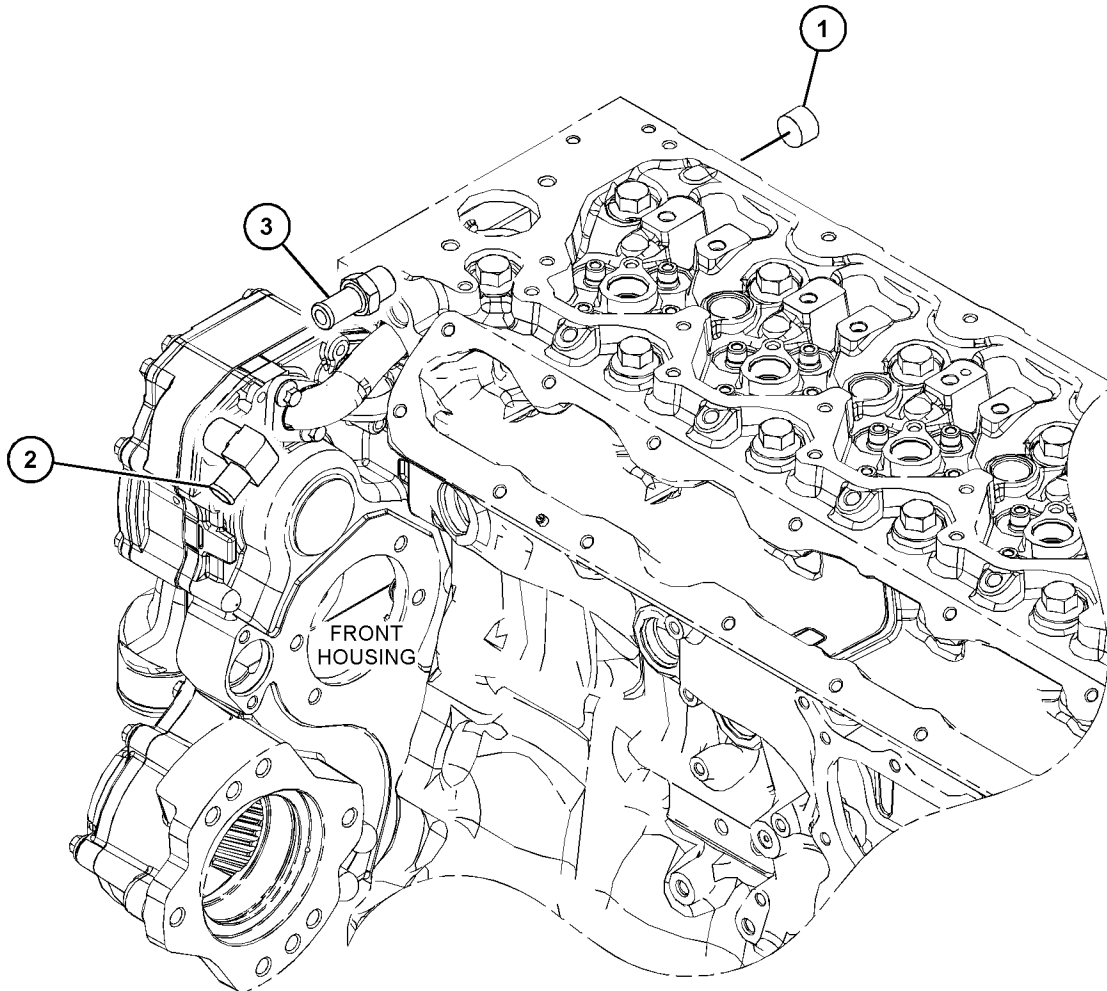
COOLING SYSTEM

448-2106 FITTING GP-WATER LINES

SMCS-1380

i05906435

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	067-6823	1	PLUG						
	2	1	9X-3959	1	ELBOW						
	3	1	7W-4669	1	ADAPTER						



GRAPHIC #1

<END>

g03737385

COOLING SYSTEM

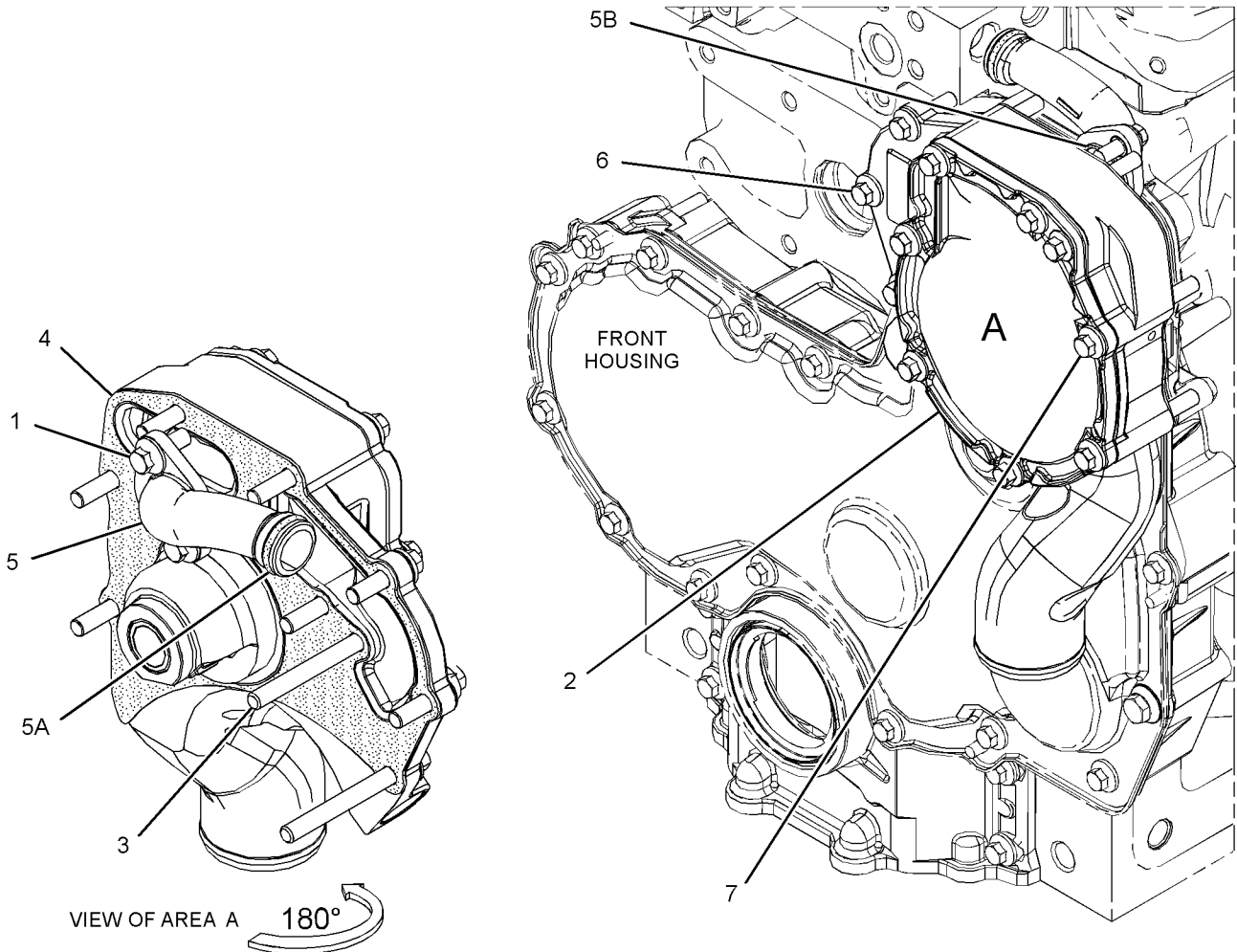
372-2297 PUMP GP-WATER

SMCS-1361

i05723789

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0217	2	BOLT (M8X1.25X20-MM)						
	2	1	355-8710	1	PUMP GP-WATER						
	3	1	113-8129	2	BOLT (M8X1.25X75-MM)						
	4	1	225-8019	1	GASKET						
	5	1	277-2925	1	CONNECTION AS						
	5A	1	225-7738	1	SEAL-O-RING						
	5B	1	277-2923	1	GASKET						
M	6	1	6I-0254	2	BOLT (M8X1.25X30-MM)						
M	7	1	6I-0839	5	BOLT (M8X1.25X70-MM)						

M - METRIC PART



GRAPHIC #1

<END>

g03387516

COOLING SYSTEM

454-3464 RADIATOR AS

PART OF 454-6966, 456-4296, 456-4299 RADIATOR GP

SMCS-1353

i05952734

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
M	124-3815	15	BOLT (M8X1.25X16-MM)	
	365-2908	1	AFTERCOOLER	
	398-1750	1	RADIATOR AS	
	398-1775	1	BRACKET AS	
	422-6385	1	PLUG	
	422-6387	2	PLUG	
	422-6388	1	WASHER	
	422-6389	2	WASHER	
	457-0482	1	GUARD-RADIATOR	

M - METRIC PART

<END>

454-3470 RADIATOR AS

PART OF 452-5153 RADIATOR GP

SMCS-1353

i06008110

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
M	124-3815	15	BOLT (M8X1.25X16-MM)	
	365-2908	1	AFTERCOOLER	
	398-1750	1	RADIATOR AS	
	398-1775	1	BRACKET AS	
	422-6385	1	PLUG	
	422-6387	2	PLUG	
	422-6388	1	WASHER	
	422-6389	2	WASHER	
	457-0481	1	COWLING	

M - METRIC PART

<END>

COOLING SYSTEM

452-5153 RADIATOR GP

SMCS-1353

i06008115

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
M	6I-0260	3	BOLT (M8X1.25X25-MM)						
M	6I-0593	3	BOLT (M10X1.5X30-MM)						
M	6I-0594	4	NUT (M10X1.5-THD)						
M	175-7141	1	NUT-HEX FLANGE (M10X1.5-THD)						
M	6I-0654	3	BOLT (M10X1.5X25-MM)						
	7W-2601	2	SPACER						
M	100-4461	2	BOLT (M10X1.5X50-MM)						
	101-7539	2	WASHER						
	7Y-2292	1	WASHER (13X50X2-MM THK)						
	101-7540	2	WASHER						
	101-7541	4	BOLT (M8X1.25X25-MM)						
	101-7546	2	MOUNT						
	114-4363	3	BOLT (M8X1.25X12-MM)						
M	124-3815	3	BOLT (M8X1.25X16-MM)						
	185-0112	1	HOSE-AIR						
	265-6527	1	CLIP						
	277-0120	6	BOLT (M16X2X40-MM)						
	293-8076	2	BRACKET						
	293-8077	1	BRACKET						
	293-8078	1	BRACKET						
	293-8079	1	BRACKET						
	293-8080	1	HOSE-WATER						
	293-8083	1	PIPE-AIR						
	293-8084	2	HOSE-AIR						
	293-8085	1	PIPE-AIR						
	293-8086	1	HOSE-AIR						
	303-6191	1	HOSE-WATER						
	317-9229	5	CLAMP-HOSE						
	322-9011	1	BRACKET AS-RADIATOR						
	324-3528	6	CLAMP-HOSE						
	362-8050	4	NUT						
	363-4208	1	BOLT						
	368-4111	1	GUARD AS-FAN						
	362-8050	3	NUT						
	363-4208	3	BOLT						
	454-3449	1	GUARD AS						
Y	454-3470	1	RADIATOR AS						176
M - METRIC PART									
Y - SEPARATE ILLUSTRATION									
<END>									

COOLING SYSTEM

454-6966 RADIATOR GP

SMCS-1353

i06022472

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
M	6I-0260	3	BOLT (M8X1.25X25-MM)						
M	6I-0593	3	BOLT (M10X1.5X30-MM)						
M	6I-0594	4	NUT (M10X1.5-THD)						
M	175-7141	1	NUT-HEX FLANGE (M10X1.5-THD)						
M	6I-0654	3	BOLT (M10X1.5X25-MM)						
	7W-2601	2	SPACER						
M	100-4461	2	BOLT (M10X1.5X50-MM)						
	101-7539	2	WASHER						
	7Y-2292	1	WASHER (13X50X2-MM THK)						
	101-7540	2	WASHER						
	101-7541	4	BOLT (M8X1.25X25-MM)						
	101-7546	2	MOUNT						
	114-4363	3	BOLT (M8X1.25X12-MM)						
M	124-3815	3	BOLT (M8X1.25X16-MM)						
	185-0112	1	HOSE-AIR						
	265-6527	1	CLIP						
	277-0120	6	BOLT (M16X2X40-MM)						
	293-8076	2	BRACKET						
	293-8077	1	BRACKET						
	293-8078	1	BRACKET						
	293-8079	1	BRACKET						
	293-8080	1	HOSE-WATER						
	293-8083	1	PIPE-AIR						
	293-8084	2	HOSE-AIR						
	293-8085	1	PIPE-AIR						
	293-8086	1	HOSE-AIR						
	303-6191	1	HOSE-WATER						
	317-9229	5	CLAMP-HOSE						
	322-9011	1	BRACKET AS-RADIATOR						
	324-3528	6	CLAMP-HOSE						
	362-8050	4	NUT						
	363-4208	1	BOLT						
	368-4111	1	GUARD AS-FAN						
	362-8050	3	NUT						
	363-4208	3	BOLT						
	454-3449	1	GUARD AS						
Y	454-3464	1	RADIATOR AS						176
M - METRIC PART									
Y - SEPARATE ILLUSTRATION									
<END>									

COOLING SYSTEM

456-4296 RADIATOR GP

SMCS-1353

i06022715

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
M	6I-0260	3	BOLT (M8X1.25X25-MM)						
M	6I-0593	3	BOLT (M10X1.5X30-MM)						
M	6I-0594	4	NUT (M10X1.5-THD)						
M	175-7141	1	NUT-HEX FLANGE (M10X1.5-THD)						
M	6I-0654	3	BOLT (M10X1.5X25-MM)						
	7W-2601	2	SPACER						
M	100-4461	2	BOLT (M10X1.5X50-MM)						
	101-7539	2	WASHER						
	7Y-2292	1	WASHER (13X50X2-MM THK)						
	101-7540	2	WASHER						
	101-7541	4	BOLT (M8X1.25X25-MM)						
	101-7546	2	MOUNT						
	114-4363	3	BOLT (M8X1.25X12-MM)						
M	124-3815	7	BOLT (M8X1.25X16-MM)						
	185-0112	1	HOSE-AIR						
	265-6527	1	CLIP						
	277-0120	6	BOLT (M16X2X40-MM)						
	293-8076	2	BRACKET						
	293-8077	1	BRACKET						
	293-8078	1	BRACKET						
	293-8079	1	BRACKET						
	293-8080	1	HOSE-WATER						
	293-8083	1	PIPE-AIR						
	293-8084	2	HOSE-AIR						
	293-8085	1	PIPE-AIR						
	293-8086	1	HOSE-AIR						
	303-6191	1	HOSE-WATER						
	317-9229	5	CLAMP-HOSE						
	322-9011	1	BRACKET AS-RADIATOR						
	324-3528	6	CLAMP-HOSE						
	362-8050	4	NUT						
	363-4208	1	BOLT						
	368-3338	1	GUARD AS-FAN						
	362-8050	3	NUT						
	363-4208	3	BOLT						
	442-5177	1	SCREEN AS						
	454-3449	1	GUARD AS						
Y	454-3464	1	RADIATOR AS						176

M - METRIC PART

Y - SEPARATE ILLUSTRATION

<END>

COOLING SYSTEM

456-4299 RADIATOR GP

SMCS-1353

i05952752

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
M	6I-0260	3	BOLT (M8X1.25X25-MM)						
M	6I-0593	3	BOLT (M10X1.5X30-MM)						
M	6I-0594	4	NUT (M10X1.5-THD)						
M	175-7141	1	NUT-HEX FLANGE (M10X1.5-THD)						
M	6I-0654	3	BOLT (M10X1.5X25-MM)						
	7W-2601	2	SPACER						
M	100-4461	2	BOLT (M10X1.5X50-MM)						
	101-7539	2	WASHER						
	7Y-2292	1	WASHER (13X50X2-MM THK)						
	101-7540	2	WASHER						
	101-7541	4	BOLT (M8X1.25X25-MM)						
	101-7546	2	MOUNT						
	114-4363	3	BOLT (M8X1.25X12-MM)						
M	124-3815	3	BOLT (M8X1.25X16-MM)						
	185-0112	1	HOSE-AIR						
	265-6527	1	CLIP						
	277-0120	6	BOLT (M16X2X40-MM)						
	293-8076	2	BRACKET						
	293-8077	1	BRACKET						
	293-8078	1	BRACKET						
	293-8079	1	BRACKET						
	293-8080	1	HOSE-WATER						
	293-8083	1	PIPE-AIR						
	293-8084	2	HOSE-AIR						
	293-8085	1	PIPE-AIR						
	293-8086	1	HOSE-AIR						
	303-6191	1	HOSE-WATER						
	317-9229	5	CLAMP-HOSE						
	322-9011	1	BRACKET AS-RADIATOR						
	324-3528	6	CLAMP-HOSE						
	362-8050	4	NUT						
	363-4208	1	BOLT						
	368-3338	1	GUARD AS-FAN						
	362-8050	3	NUT						
	363-4208	3	BOLT						
	454-3449	1	GUARD AS						
Y	454-3464	1	RADIATOR AS						176
M - METRIC PART									
Y - SEPARATE ILLUSTRATION									
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AIR INLET AND EXHAUST SYSTEM

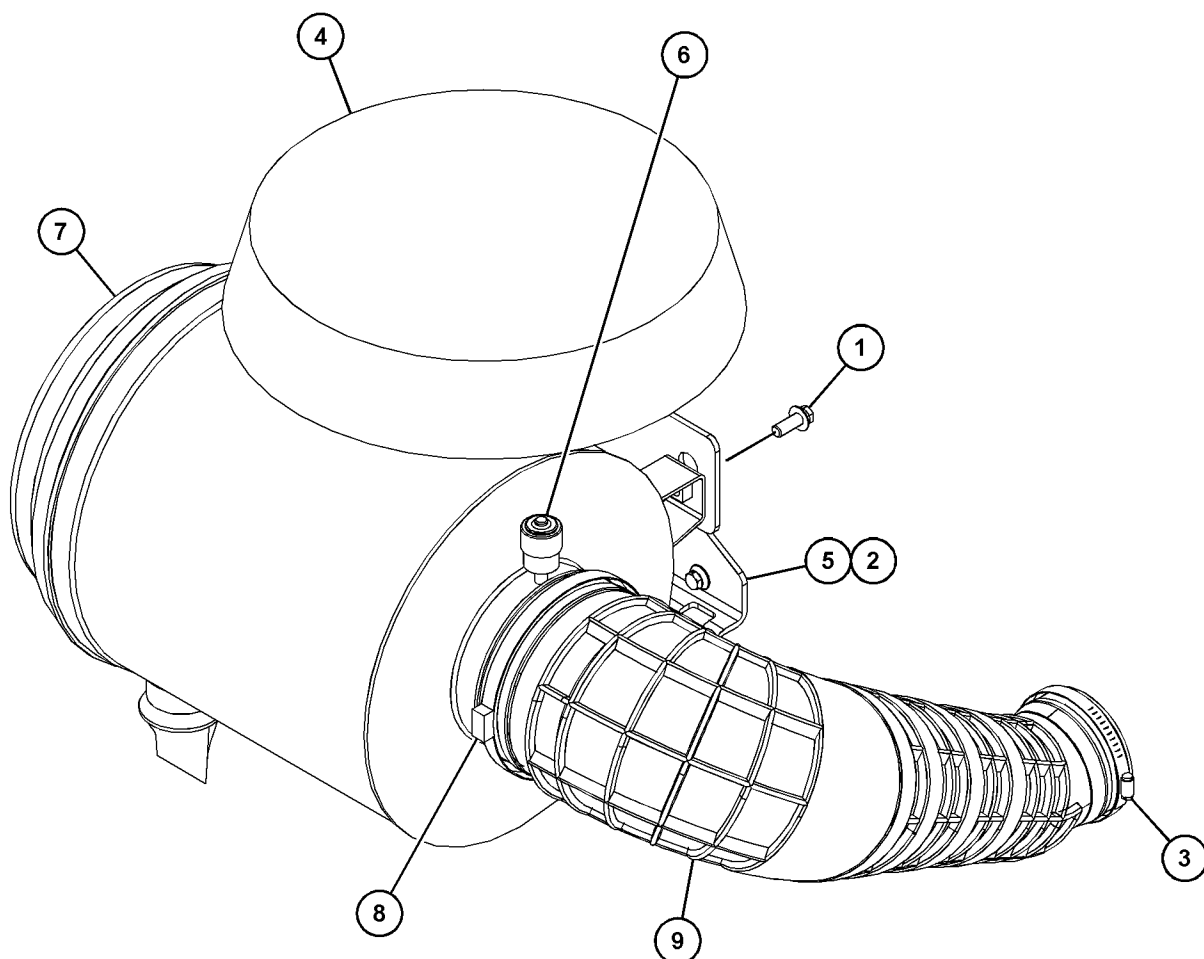
375-5006 AIR CLEANER GP

SMCS-1051, 1054

i05847749

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0654	4	BOLT (M10X1.5X25-MM)						
M	2	1	100-4830	2	BOLT (M10X1.5X20-MM)						
	3	1	268-5341	1	CLAMP-HOSE						
	4	1	289-2360	1	CAP						
	5	1	294-9389	1	BRACKET						
	6	1	315-4691	1	INDICATOR-AIR FILTER CHANGE						
	7	1	356-9627	1	FILTER						
	8	1	385-0020	1	CLIP-HOSE						
	9	1	421-8534	1	HOSE						

M - METRIC PART



GRAPHIC #1

<END>

g03696756

AIR INLET AND EXHAUST SYSTEM

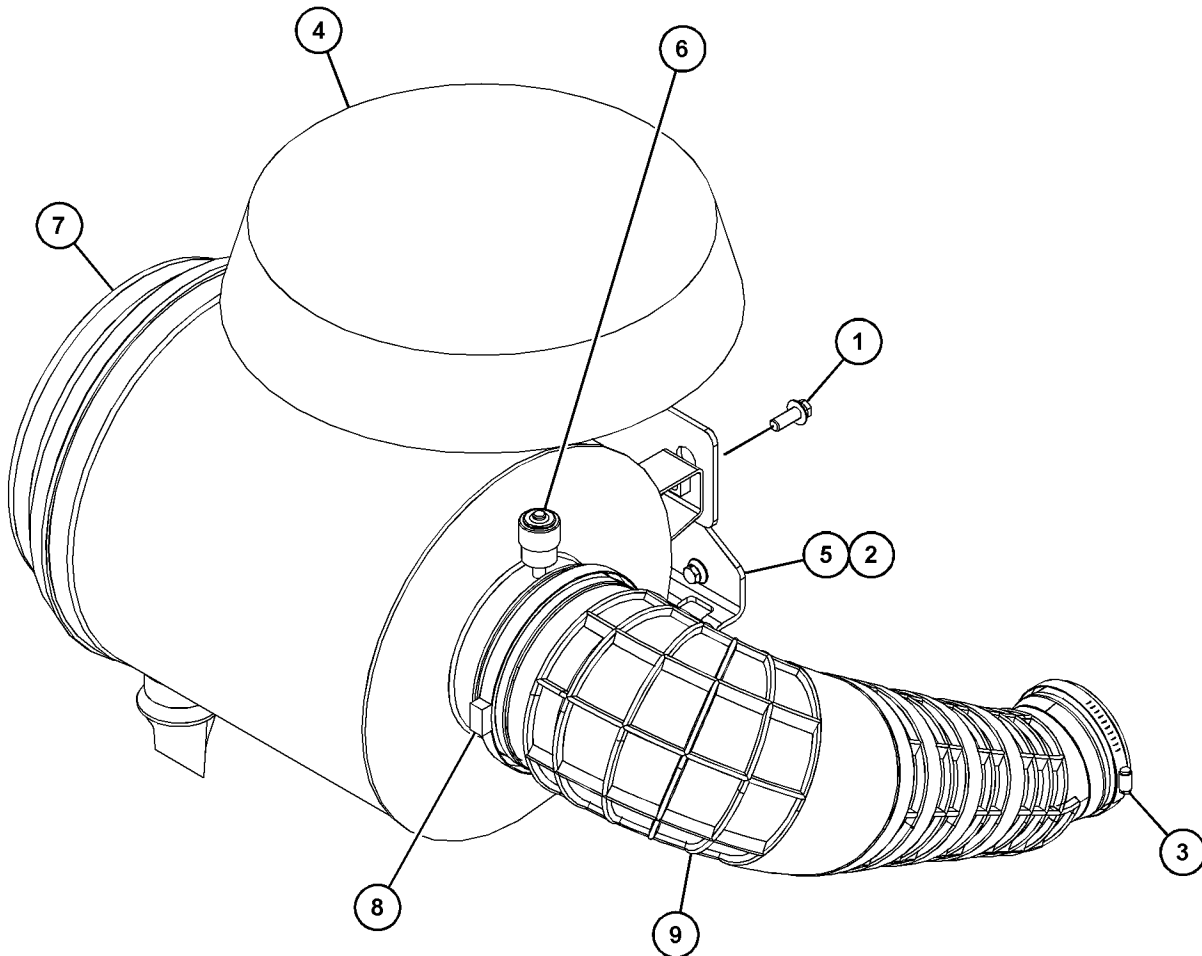
467-1940 AIR CLEANER GP

SMCS-1051, 1054

i06103581

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0654	4	BOLT (M10X1.5X25-MM)						
M	2	1	100-4830	2	BOLT (M10X1.5X20-MM)						
	3	1	268-5341	1	CLAMP-HOSE						
	4	1	289-2360	1	CAP						
	5	1	294-9389	1	BRACKET						
	6	1	315-4691	1	INDICATOR-AIR FILTER CHANGE						
	7	1	344-0927	1	FILTER GP-AIR						
		1	133-7403	1	VALVE-DUST						
		1	289-2348	1	FILTER ELEMENT-AIR (PRIMARY)						
	8	1	385-0020	1	CLIP-HOSE						
	9	1	421-8534	1	HOSE						

M - METRIC PART



GRAPHIC #1

<END>

g03696756

AIR INLET AND EXHAUST SYSTEM

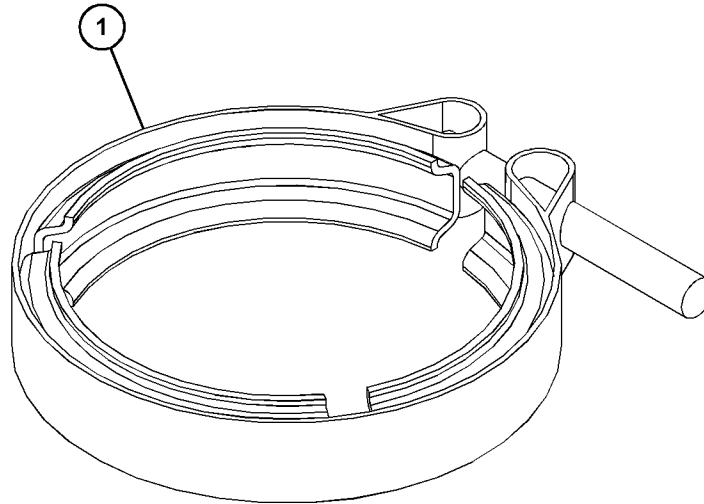
390-5130 CLAMP-BAND

HARDWARE

SMCS-1071

i05718189

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1W-2431	1	CLAMP-BAND						



GRAPHIC #1

<END>

g03649515

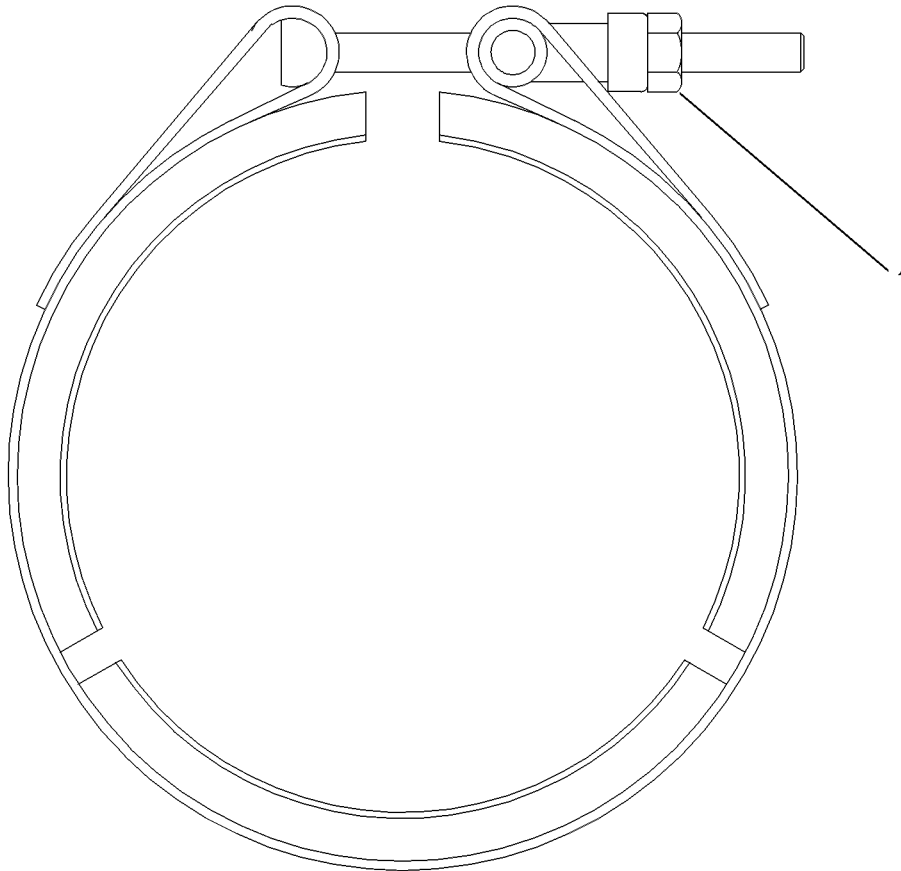
AIR INLET AND EXHAUST SYSTEM

390-5132 CLAMP - BAND

SMCS-1071

i05712036

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1W-2431	1	CLAMP-BAND						
		1	8T-0193	1	NUT-FULL (5/16-24-THD)						



GRAPHIC #1

<END>

g00605009

AIR INLET AND EXHAUST SYSTEM

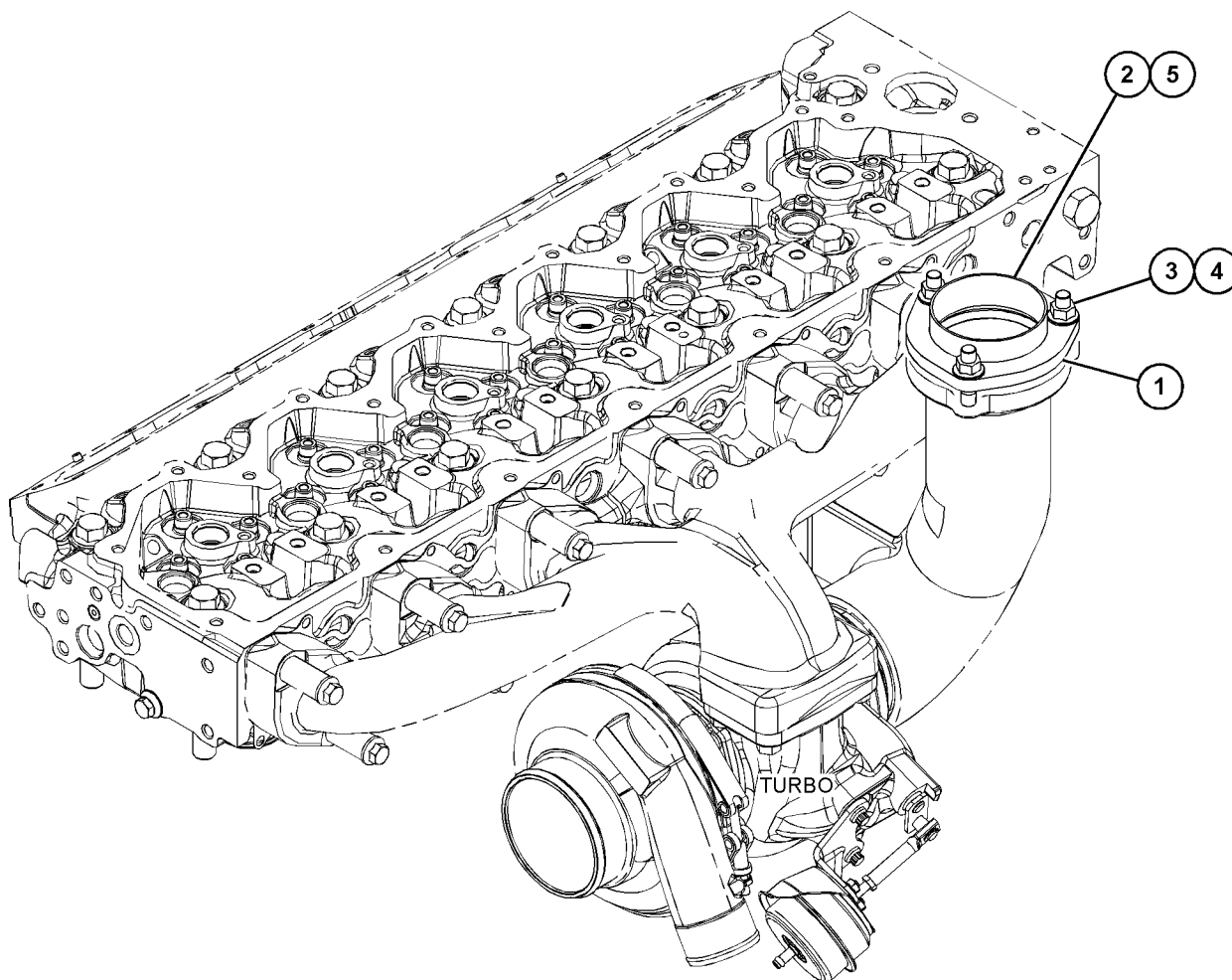
346-0769 FLANGE GP-EXHAUST

SMCS-1061

i05847746

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7R-6290	1	FLANGE						
	2	1	100-4002	1	ADAPTER						
	3	1	100-4003	3	STUD (M10X1.5X35-MM)						
M	4	1	6I-0563	3	NUT (M10X1.5-THD)						
	5	1	7C-1243	1	RING						

M - METRIC PART



GRAPHIC #1

<END>

g03696664

AIR INLET AND EXHAUST SYSTEM

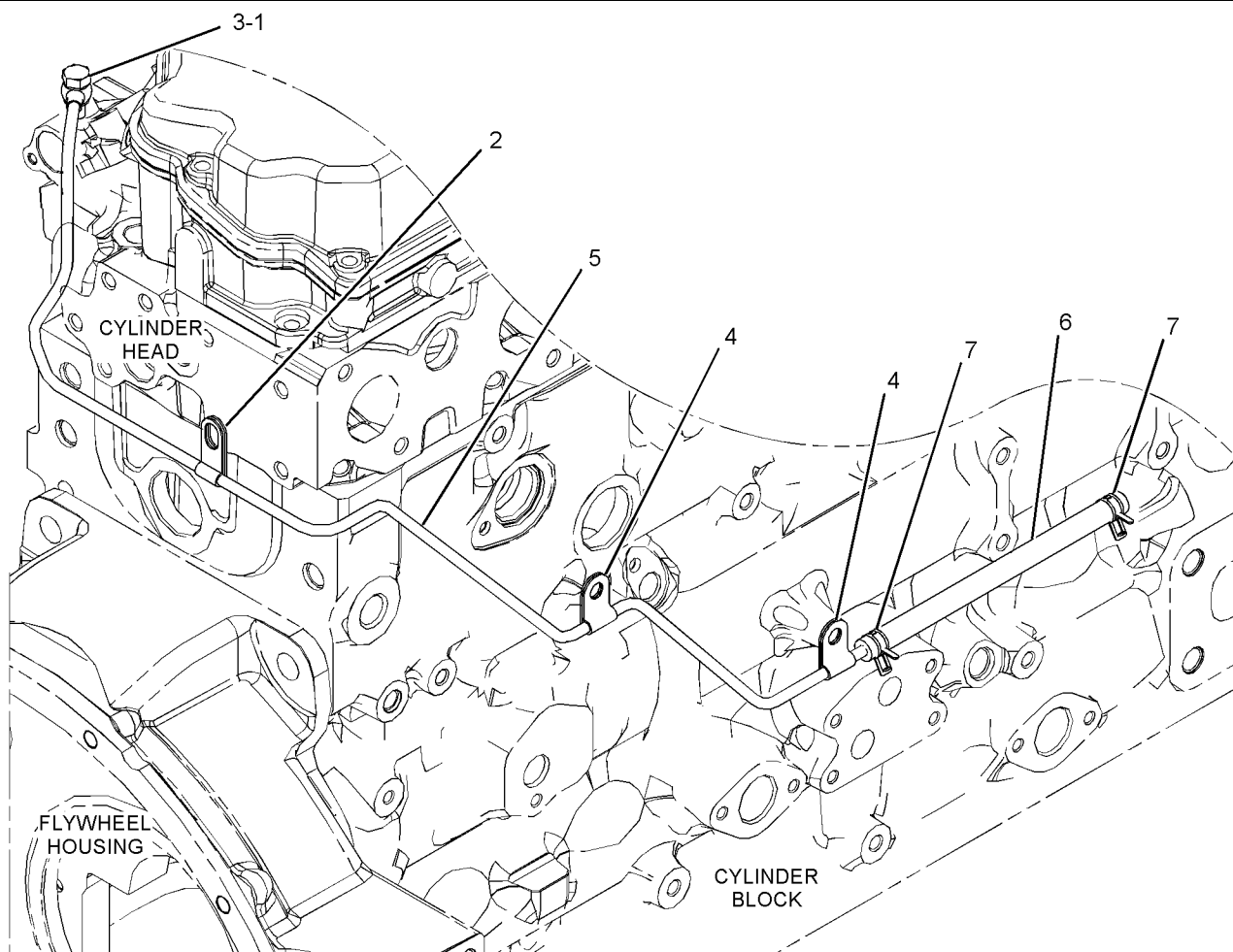
377-2877 LINES GP-TURBOCHARGER AIR

PART OF 416-6968, 416-6969 TURBOCHARGER GP

SMCS-1052, 1071

i05717925

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	225-8526	2	WASHER (10.4X13.75X1.37-MM THK)						
	2	1	133-9469	1	CLIP						
	3	1	225-8524	1	BOLT-SPECIAL (BANJO)						
	4	1	335-8611	2	CLIP						
	5	1	377-2876	1	TUBE AS						
	6	1	422-7715	1	HOSE-TURBOCHARGER						
	7	1	107-2348	2	CLIP						



GRAPHIC #1

<END>

g03380817

AIR INLET AND EXHAUST SYSTEM

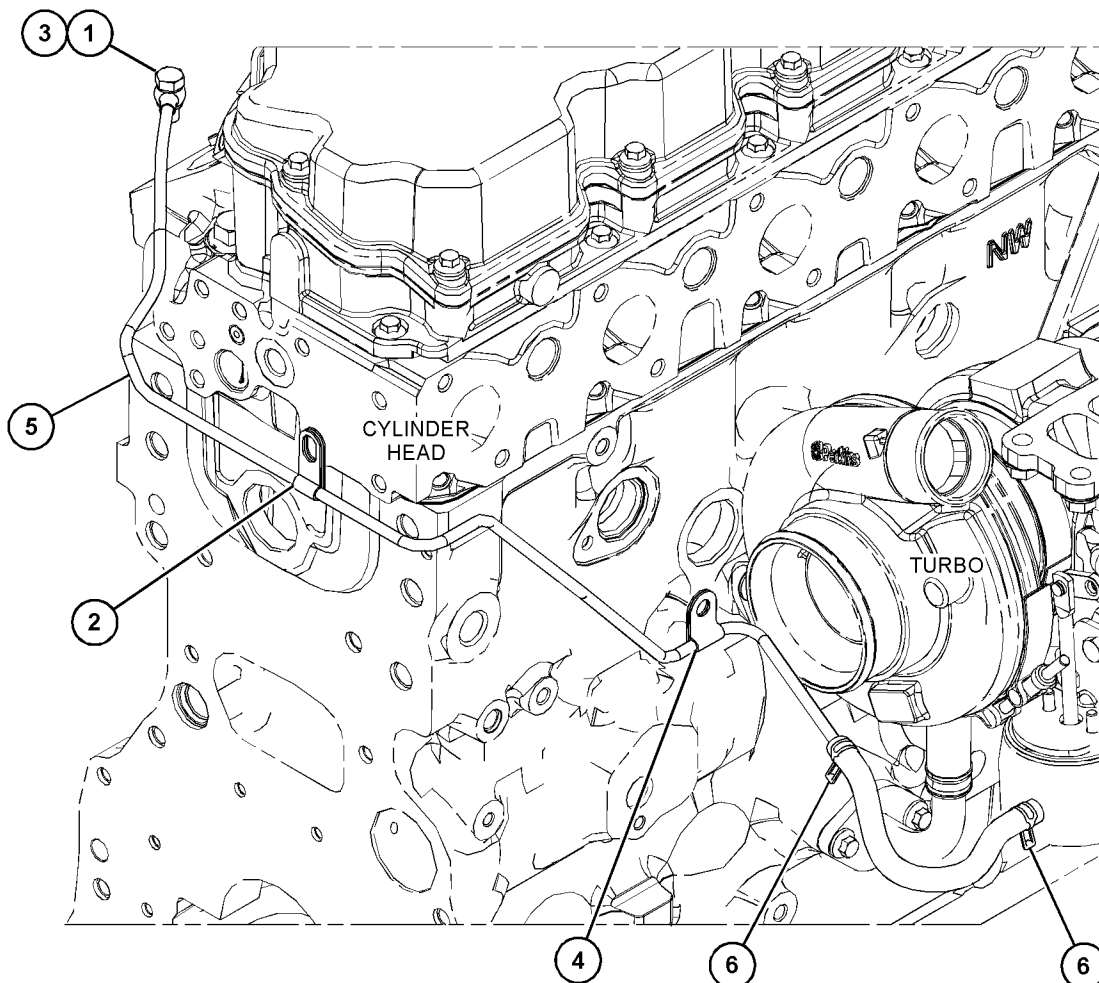
396-9532 LINES GP-TURBOCHARGER AIR

PART OF 375-5002, 416-6971, 431-6516, 448-9777 TURBOCHARGER GP

SMCS-1052, 1071

i05777566

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	225-8526	2	WASHER (10.4X13.75X1.37-MM THK)						
	2	1	133-9469	1	CLIP						
	3	1	225-8524	1	BOLT-SPECIAL (BANJO)						
	4	1	335-8611	1	CLIP						
	5	1	396-9529	1	TUBE AS-TURBOCHARGER						
	6	1	107-2348	2	CLIP						



GRAPHIC #1

<END>

g03557599

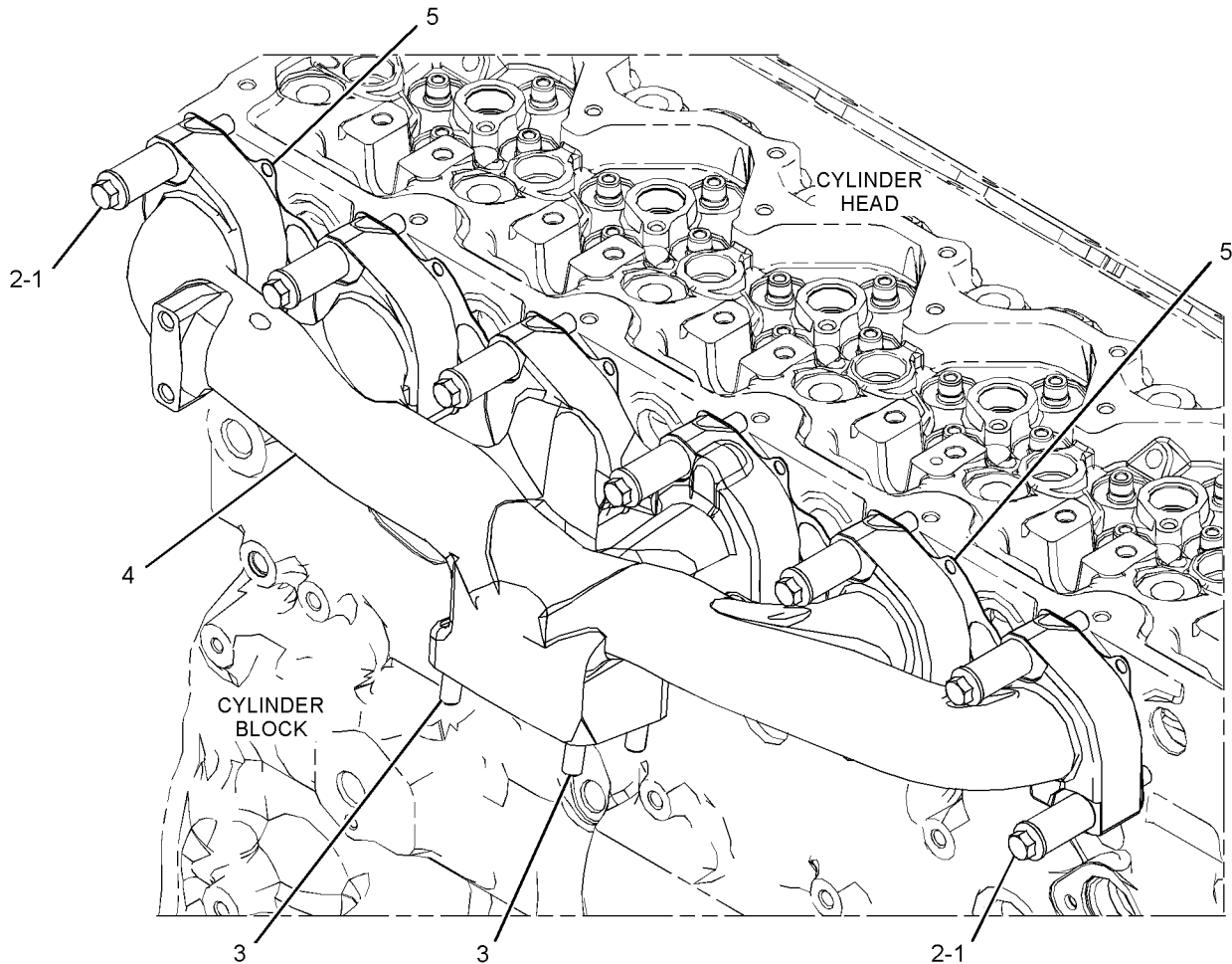
AIR INLET AND EXHAUST SYSTEM

393-7694 MANIFOLD GP-EXHAUST

SMCS-1059

i05582451

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	238-8292	12	BOLT-FLANGE HEAD						
	2	1	286-7851	12	SPACER						
	3	1	367-3340	4	STUD						
	4	1	384-2286	1	MANIFOLD						
	5	1	416-7727	2	GASKET						



GRAPHIC #1

<END>

g03379009

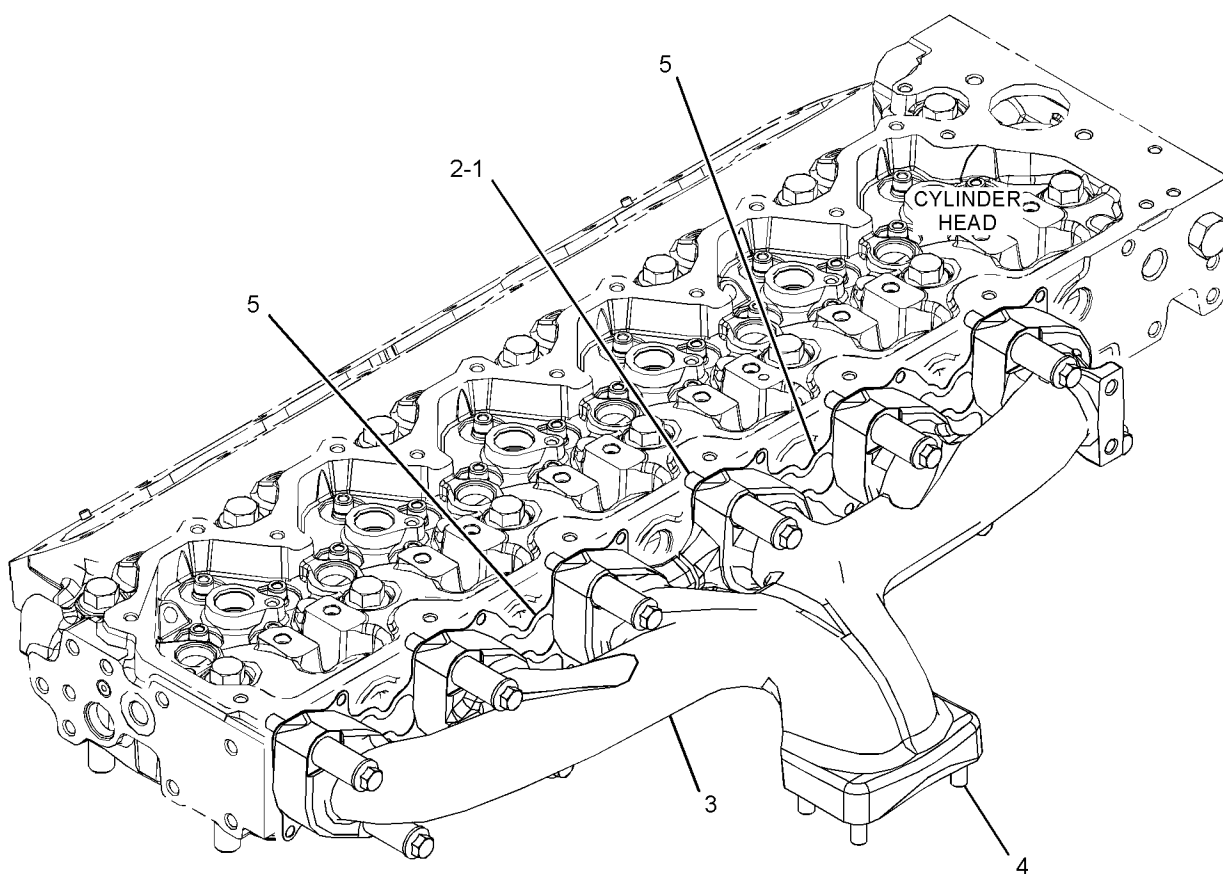
AIR INLET AND EXHAUST SYSTEM

416-7808 MANIFOLD GP-EXHAUST

SMCS-1059

i06060822

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	238-8292	12	BOLT-FLANGE HEAD						
	2	1	286-7851	12	SPACER						
	3	1	396-8052	1	MANIFOLD-EXHAUST						
	4	1	367-3340	4	STUD						
	5	1	416-7727	2	GASKET						



GRAPHIC #1

<END>

g03535858

AIR INLET AND EXHAUST SYSTEM

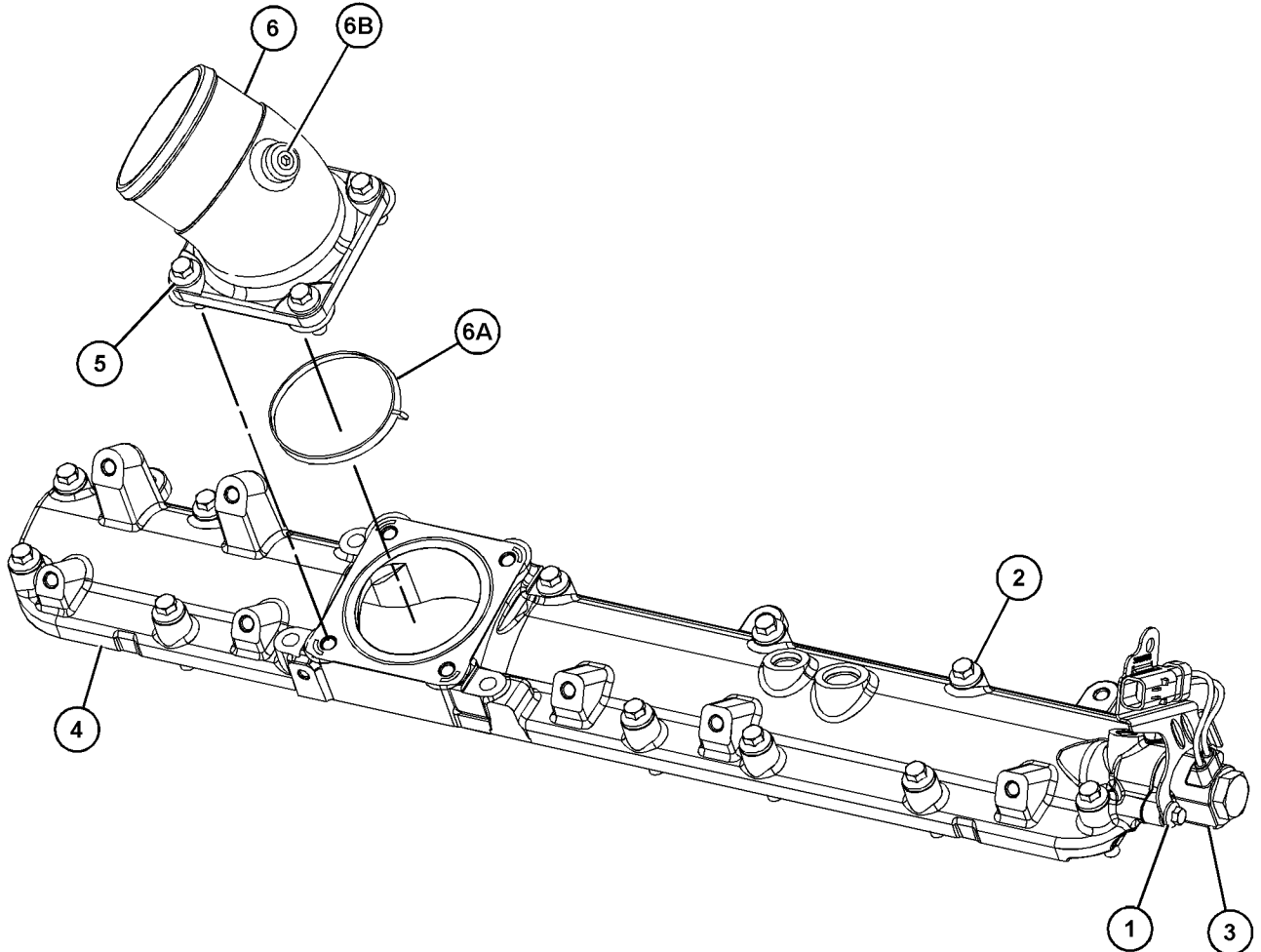
378-8582 MANIFOLD GP-INLET

SMCS-1058

i05773130

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-0917	2	BOLT (M6X1X25-MM)						
	2	1	105-2740	12	BOLT						
	3	1	369-1658	1	SOLENOID						
	4	1	452-9704	1	COVER (CYLINDER HEAD)						
M	5	1	6I-0260	4	BOLT (M8X1.25X25-MM)						
	6	1	390-7626	1	CONNECTION GP-AIR						
	6A	1	238-8288	1	GASKET-INLET						
	6B	1	292-3462	1	PLUG-PIPE						

M - METRIC PART



GRAPHIC #1

<END>

g03651405

AIR INLET AND EXHAUST SYSTEM

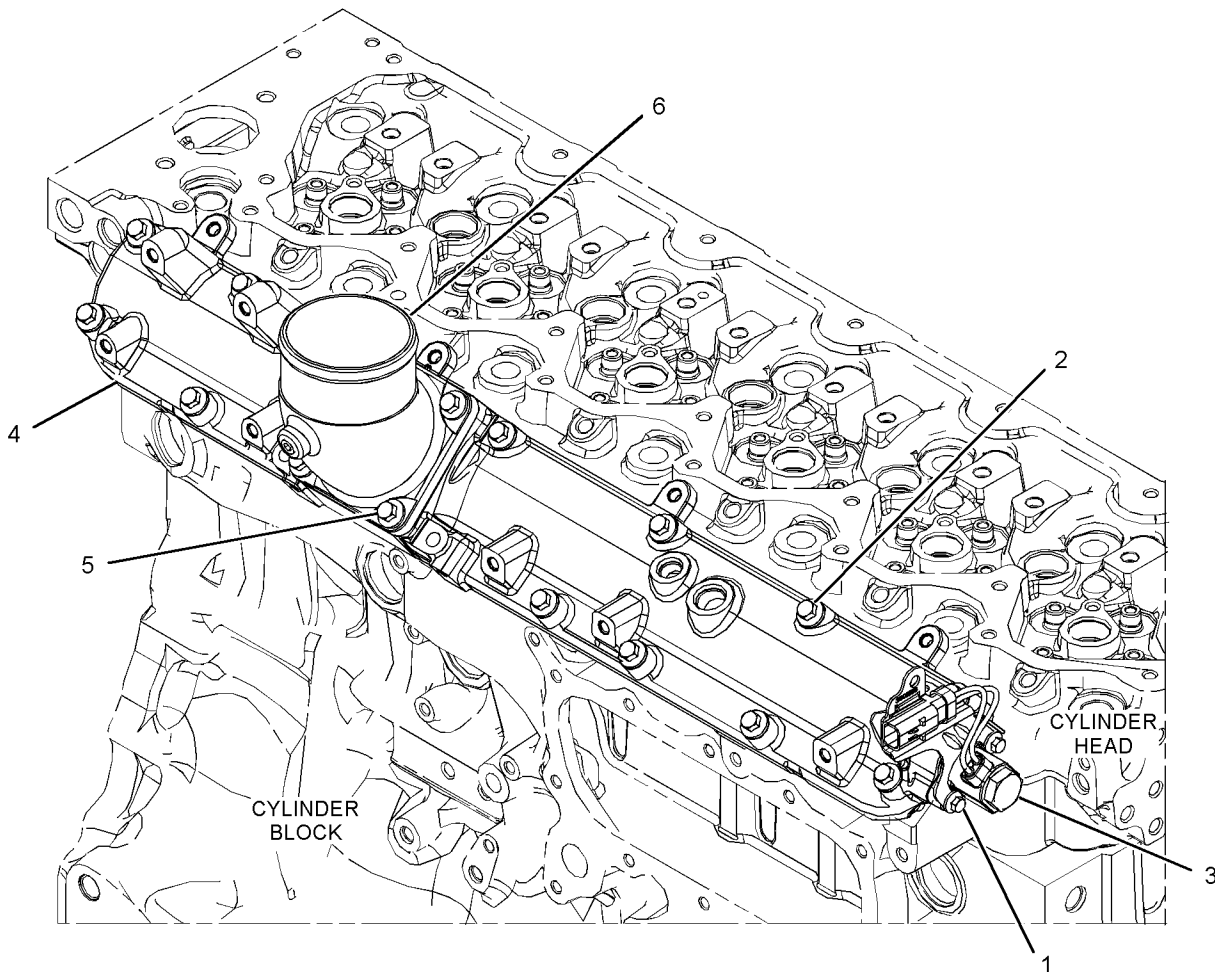
391-5523 MANIFOLD GP-INLET

SMCS-1058

i05832944

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-0917	2	BOLT (M6X1X25-MM)						
	2	1	105-2740	12	BOLT						
	3	1	369-1658	1	SOLENOID						
	4	1	452-9704	1	COVER (CYLINDER HEAD)						
M	5	1	6I-0260	4	BOLT (M8X1.25X25-MM)						
	6	1	390-7626	1	CONNECTION GP-AIR						
		1	238-8288	1	GASKET-INLET						
		1	292-3462	1	PLUG-PIPE						

M - METRIC PART



GRAPHIC #1

<END>

g03476304

AIR INLET AND EXHAUST SYSTEM

375-5002 TURBOCHARGER GP

SMCS-1052, 1053

i05859680

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	61-0217	5	BOLT (M8X1.25X20-MM)						
M	2	1	61-0563	4	NUT (M10X1.5-THD)						
M	3	1	61-0593	3	BOLT (M10X1.5X30-MM)						
M	4	1	100-4830	1	BOLT (M10X1.5X20-MM)						
M	5	1	124-3815	1	BOLT (M8X1.25X16-MM)						
	6	1	278-0017	1	GASKET						
	7	1	280-2424	1	ADAPTER						
	8	1	282-2830	1	ELBOW						
R	9	1	315-9810	1	TURBOCHARGER GP						
	9A	1	277-9602	1	CLAMP						
	9B	1	277-9603	1	CLAMP						
	10	1	368-8557	1	TUBE AS-TURBOCHARGER						
M	10A	1	277-9938	1	BOLT-SPECIAL (BANJO)						
	10B	1	277-9940	1	SEAL-O-RING						
	10C	1	365-5823	2	WASHER						
Y	11	1	396-9532	1	LINES GP-TURBOCHARGER AIR						187
	12	1	420-2372	1	LINE AS						
	13	1	437-4170	1	GASKET						

M - METRIC PART

R - REMFG PART MAY BE AVAILABLE

Y - SEPARATE ILLUSTRATION

NO GRAPHIC AVAILABLE AT TIME OF PUBLICATION

GRAPHIC #1

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g01269539

AIR INLET AND EXHAUST SYSTEM

416-6968 TURBOCHARGER GP

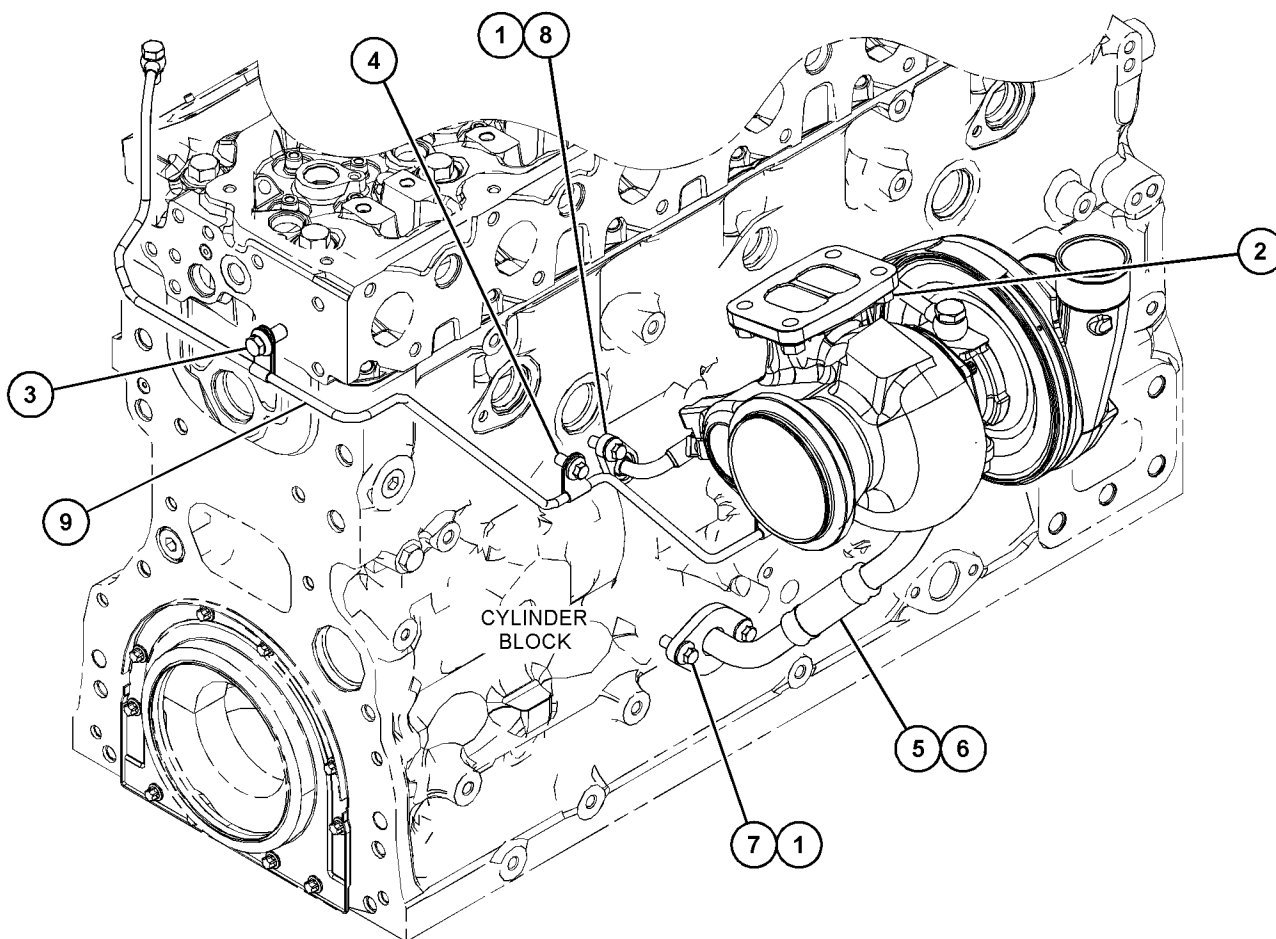
SMCS-1052, 1053

i05774420

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0217	5	BOLT (M8X1.25X20-MM)						
M	2	1	6I-0563	4	NUT (M10X1.5-THD)						
M	3	1	100-4830	1	BOLT (M10X1.5X20-MM)						
M	4	1	124-3815	2	BOLT (M8X1.25X16-MM)						
	5	1	420-2371	1	LINE AS						
	6	1	437-4170	1	GASKET						
	7	1	278-0017	1	GASKET						
Y	8	1	368-8559	1	LINES GP-TURBOCHARGER OIL						150
Y	9	1	377-2877	1	LINES GP-TURBOCHARGER AIR						186

M - METRIC PART

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

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g03646817

AIR INLET AND EXHAUST SYSTEM

416-6969 TURBOCHARGER GP

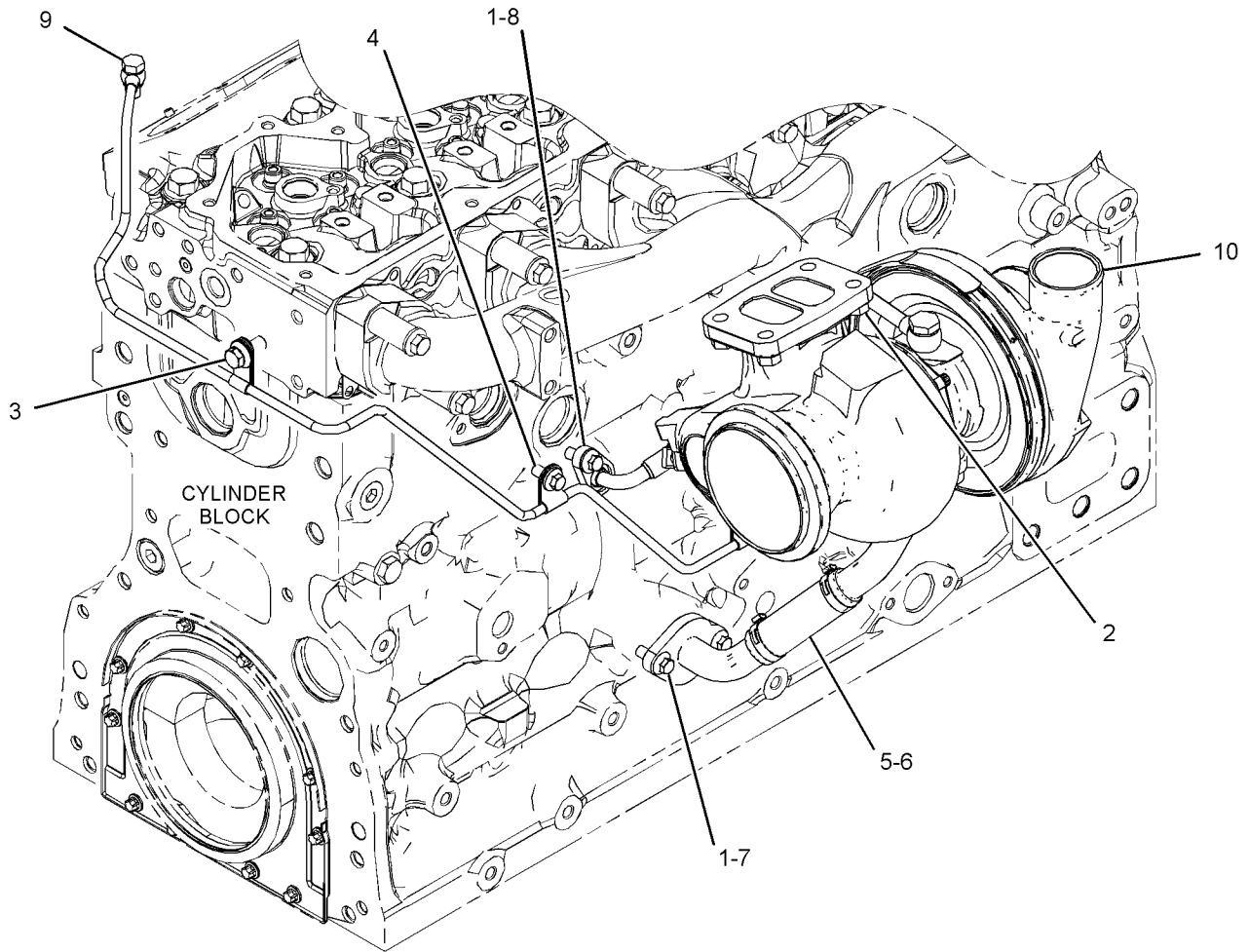
SMCS-1052, 1053

i05832966

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0217	5	BOLT (M8X1.25X20-MM)						
M	2	1	6I-0563	4	NUT (M10X1.5-THD)						
M	3	1	100-4830	1	BOLT (M10X1.5X20-MM)						
M	4	1	124-3815	2	BOLT (M8X1.25X16-MM)						
	5	1	420-2371	1	LINE AS						
	6	1	437-4170	1	GASKET						
	7	1	278-0017	1	GASKET						
Y	8	1	368-8559	1	LINES GP-TURBOCHARGER OIL						150
Y	9	1	377-2877	1	LINES GP-TURBOCHARGER AIR						186
	10	1	435-4500	1	TURBOCHARGER						

M - METRIC PART

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03693018

AIR INLET AND EXHAUST SYSTEM

416-6971 TURBOCHARGER GP

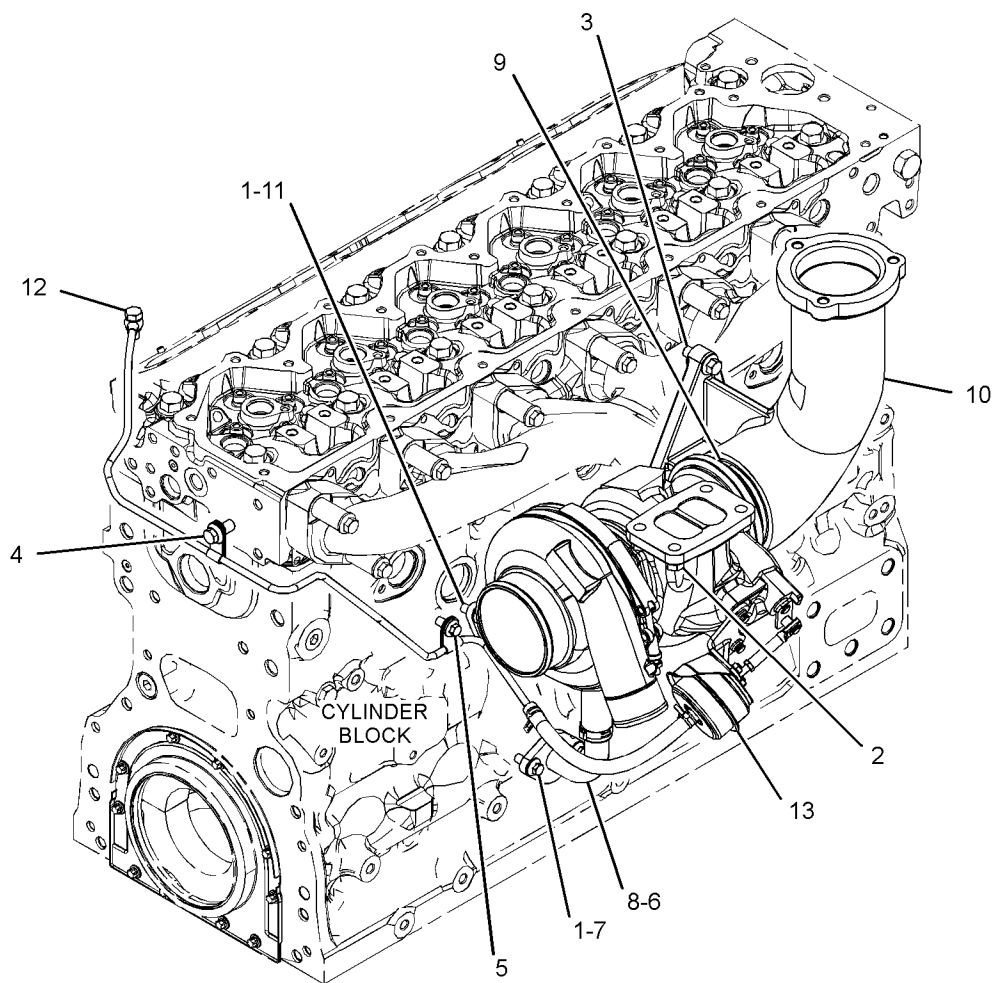
SMCS-1052, 1053

i05847745

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0217	5	BOLT (M8X1.25X20-MM)						
M	2	1	6I-0563	4	NUT (M10X1.5-THD)						
M	3	1	6I-0593	3	BOLT (M10X1.5X30-MM)						
M	4	1	100-4830	1	BOLT (M10X1.5X20-MM)						
M	5	1	124-3815	1	BOLT (M8X1.25X16-MM)						
	6	1	437-4170	1	GASKET						
	7	1	278-0017	1	GASKET						
	8	1	420-2372	1	LINE AS						
	9	1	280-2424	1	ADAPTER						
	10	1	282-2830	1	ELBOW						
	11	1	368-8557	1	TUBE AS-TURBOCHARGER						
Y	12	1	396-9532	1	LINES GP-TURBOCHARGER AIR						187
	13	1	435-4501	1	TURBOCHARGER						

M - METRIC PART

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03660046

AIR INLET AND EXHAUST SYSTEM

431-6516 TURBOCHARGER GP

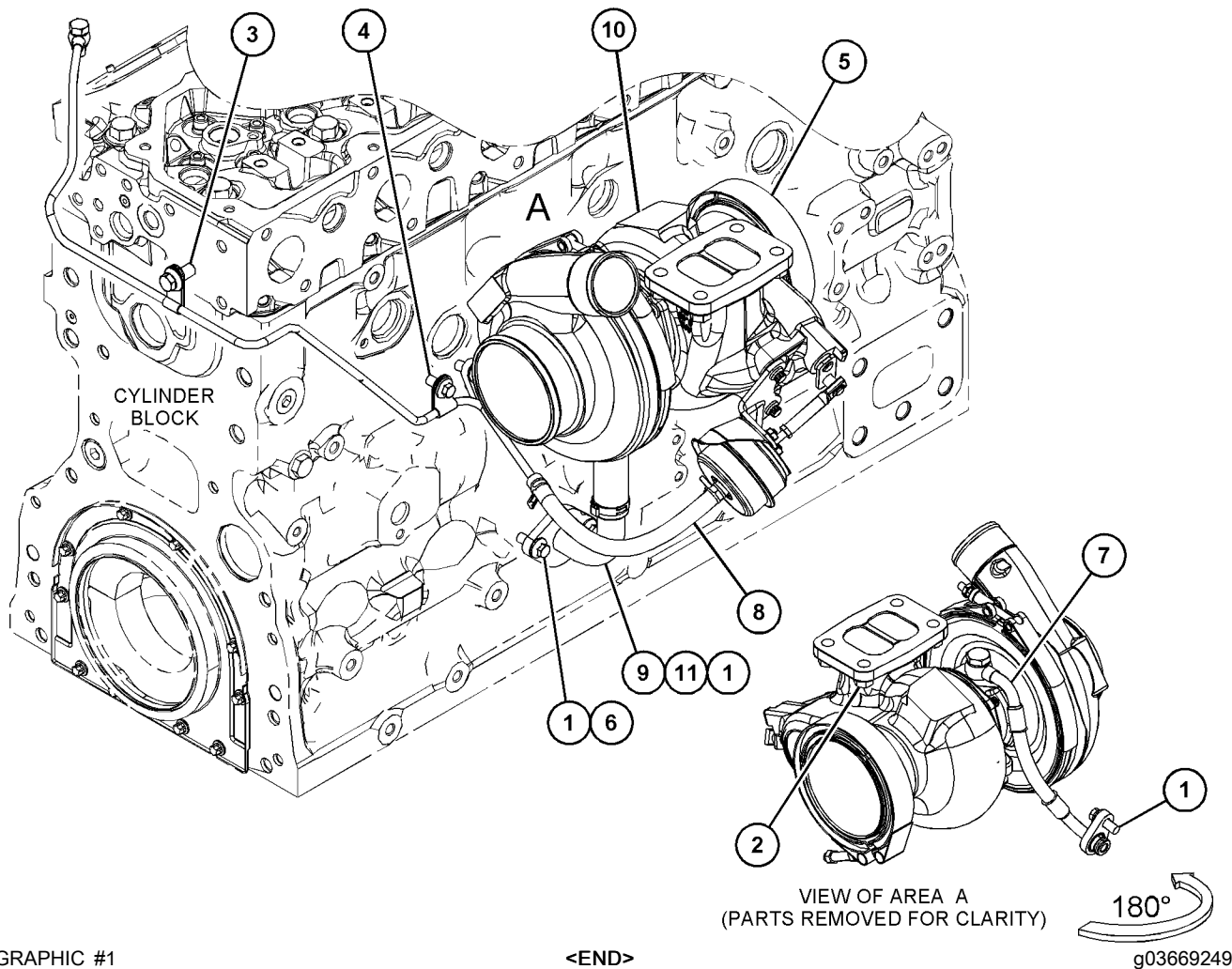
SMCS-1052, 1053

i05735528

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0217	5	BOLT (M8X1.25X20-MM)						
M	2	1	6I-0563	4	NUT (M10X1.5-THD)						
M	3	1	100-4830	1	BOLT (M10X1.5X20-MM)						
M	4	1	124-3815	1	BOLT (M8X1.25X16-MM)						
	5	1	277-9463	1	CLAMP						
	6	1	278-0017	1	GASKET						
	7	1	368-8557	1	TUBE AS-TURBOCHARGER						
Y	8	1	396-9532	1	LINES GP-TURBOCHARGER AIR						187
	9	1	420-2372	1	LINE AS						
	10	1	435-4501	1	TURBOCHARGER						
	11	1	437-4170	1	GASKET						

M - METRIC PART

Y - SEPARATE ILLUSTRATION



AIR INLET AND EXHAUST SYSTEM

448-9777 TURBOCHARGER GP

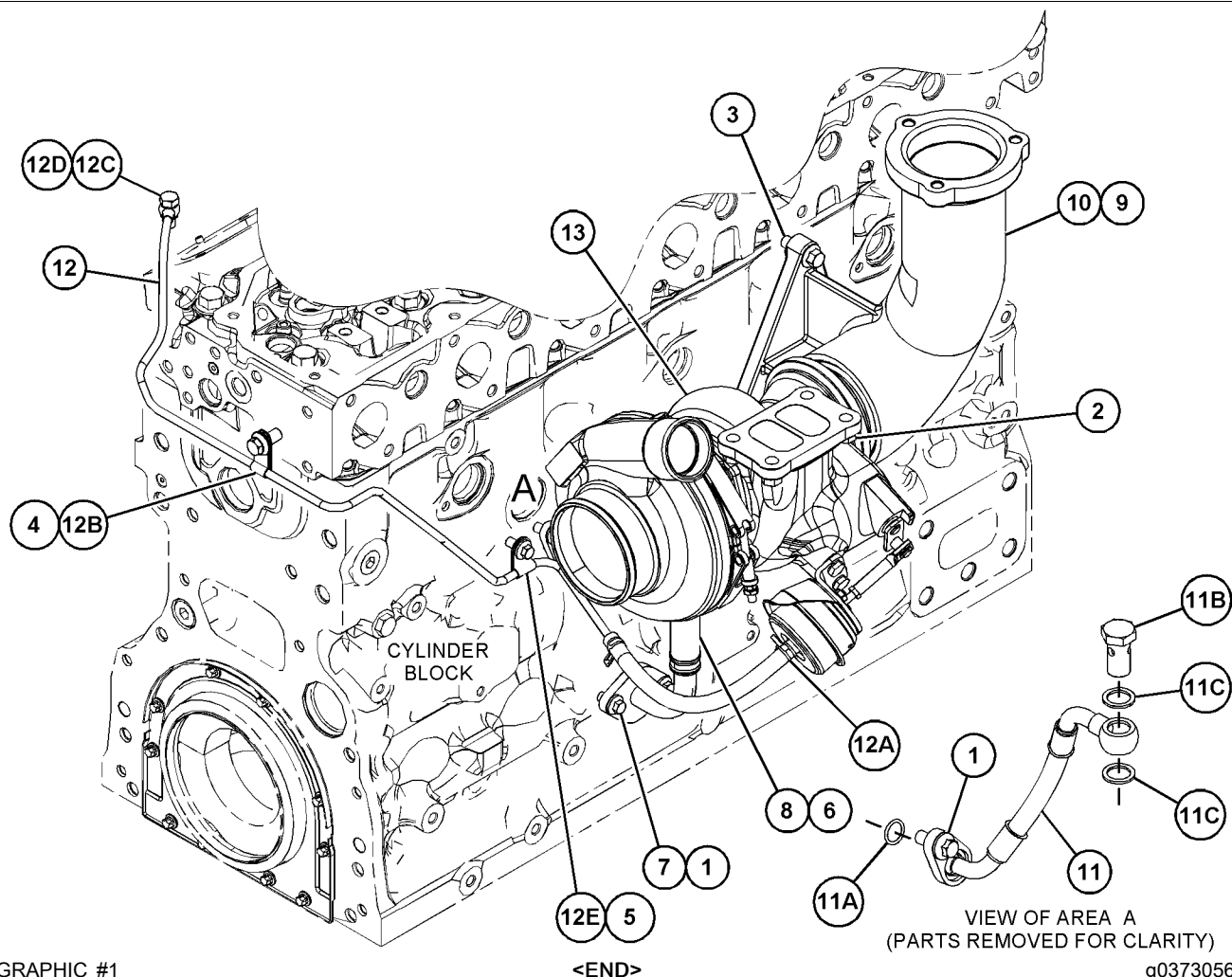
SMCS-1052, 1053

i05910574

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0217	5	BOLT (M8X1.25X20-MM)						187
M	2	1	6I-0563	4	NUT (M10X1.5-THD)						
M	3	1	6I-0593	3	BOLT (M10X1.5X30-MM)						
M	4	1	100-4830	1	BOLT (M10X1.5X20-MM)						
M	5	1	124-3815	1	BOLT (M8X1.25X16-MM)						
	6	1	437-4170	1	GASKET						
	7	1	278-0017	1	GASKET						
	8	1	420-2372	1	LINE AS						
	9	1	280-2424	1	ADAPTER						
	10	1	282-2830	1	ELBOW						
	11	1	368-8557	1	TUBE AS-TURBOCHARGER						
	11A	1	277-9940	1	SEAL-O-RING						
M	11B	1	277-9938	1	BOLT-SPECIAL (BANJO)						
	11C	1	358-6475	2	WASHER						
Y	12	1	396-9532	1	LINES GP-TURBOCHARGER AIR						
	13	1	435-4501	1	TURBOCHARGER						

M - METRIC PART

Y - SEPARATE ILLUSTRATION



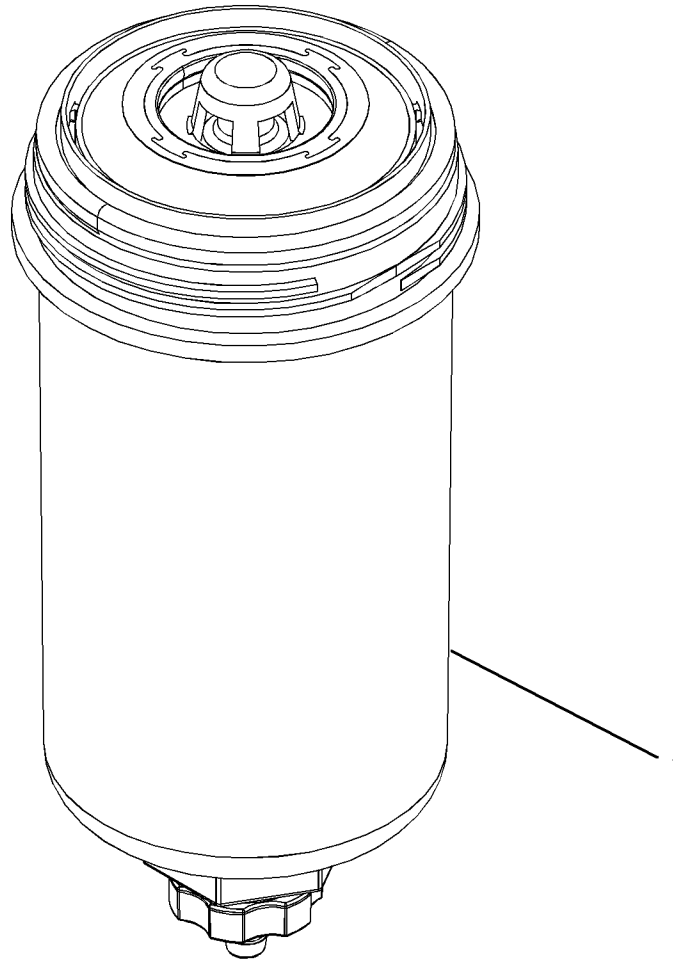
FUEL SYSTEM

360-8958 FILTER GP-FUEL PART OF 421-5684, 421-5685, 452-8547 FILTER GP-FUEL

SMCS-1261

i05581153

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	360-8960	1	FILTER ELEMENT-FUEL						
					AVAILABLE REPAIR KIT(S) :						
			362-5412	1	KIT-DRAIN (FUEL FILTER)						
					(INCLUDES DRAIN, KNOB, & SEALS)						



GRAPHIC #1

<END>

g03173178

FUEL SYSTEM

398-7221 FILTER GP-FUEL LINES

SMCS-1261

i05716469

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	348-0495	1	WASHER	
	2	1	387-3577	1	SUPPORT GP-LINES	
	3	1	391-1817	1	SUPPORT GP-LINES	
	4	1	330-9723	2	PLUG AS	
					(EACH INCLUDES)	
	4A	1	228-7100	1	SEAL-O-RING	
	4B	1	241-6157	1	PLUG	
	5	1	389-3789	1	LINES GP-FUEL	
	5A	1	386-2737	1	BOLT-BANJO	
	5B	1	247-4928	2	WASHER (16.5X20.5X1.6-MM THK)	
		1	389-3786	1	LINE AS-FUEL	
	6	1	416-1069	1	LINES GP-FUEL	
Y	7	1	433-1316	1	LINES GP-FUEL	218
	8	1	443-2487	1	LINE AS-FUEL	
E	8A	1	347-8645		HOSE (100-CM)	
	9	1	356-3986	4	CONNECTOR AS	
	9A	1	277-4993	1	SEAL-O-RING	
	10	1	391-2493	1	CONNECTION-FUEL	
	11	1	311-2732	3	TIE-CABLE	
	12	1	448-2191	1	BRACKET AS	
M	12A	1	322-0819	2	INSERT-THREADED (M10X1.5-THD)	
	13	1	432-8723	1	BRACKET AS	
	14	1	389-5775	1	BRACKET	
M	15	1	6I-0654	2	BOLT (M10X1.5X25-MM)	
M	16	1	6I-4200	2	BOLT (M10X1.5X16-MM)	
	17	1	100-4458	4	BOLT (M8X1.25X14-MM)	
M	18	1	124-3815	1	BOLT (M8X1.25X16-MM)	
M	19	1	6I-0217	1	BOLT (M8X1.25X20-MM)	
M	20	1	6I-0260	1	BOLT (M8X1.25X25-MM)	

E - ORDER BY THE CENTIMETER

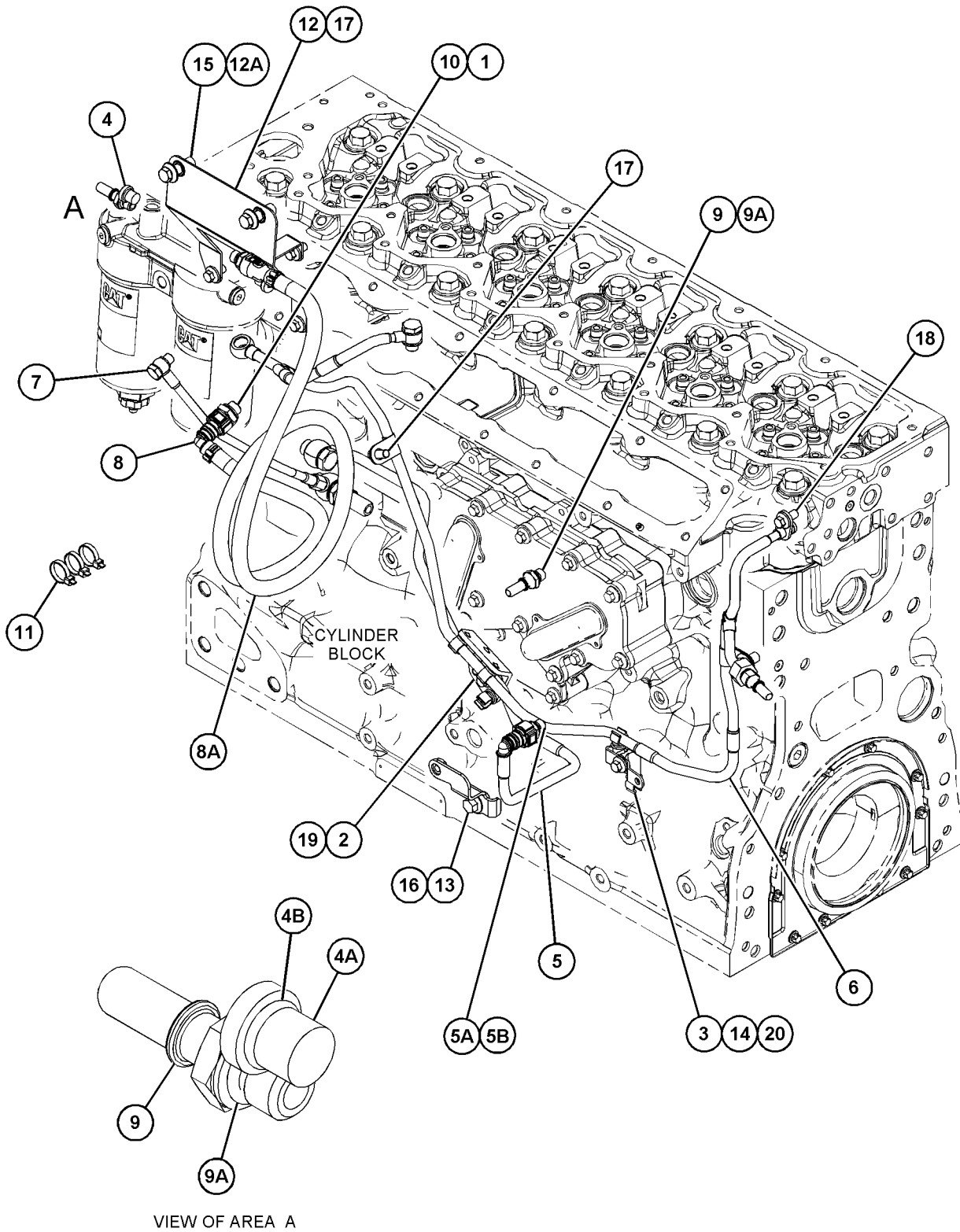
M - METRIC PART

Y - SEPARATE ILLUSTRATION

FUEL SYSTEM

398-7221 FILTER GP-FUEL (contd.)

i05716469



GRAPHIC #1

<END>

g03648921

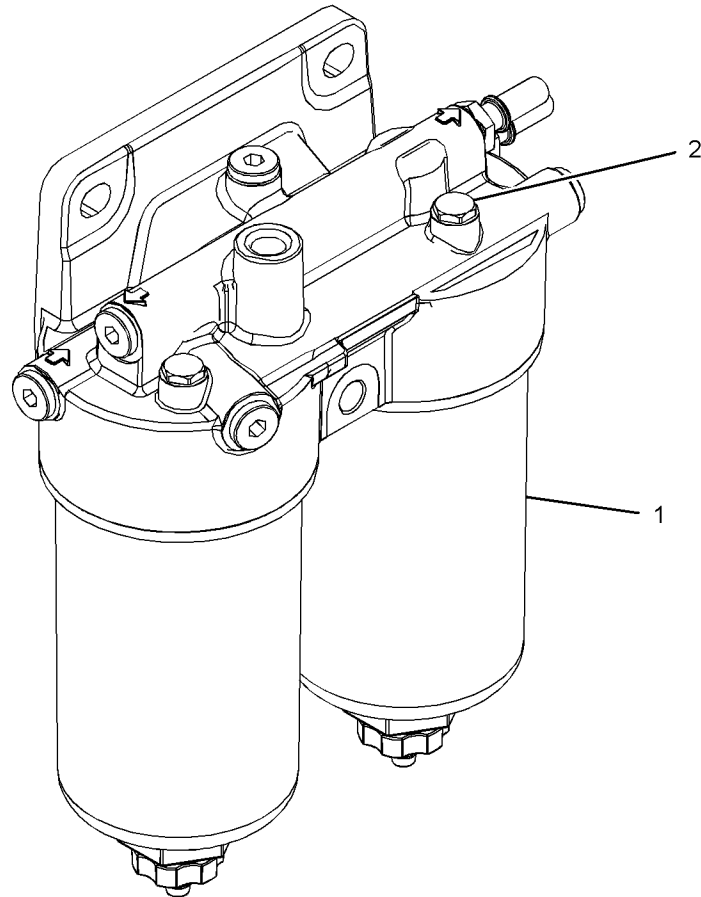
FUEL SYSTEM

421-5684 FILTER GP-FUEL PART OF 426-3290, 426-3292 FILTER GP-FUEL

SMCS-1261

i05581149

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	360-8958	1	FILTER GP-FUEL						198
	2	1	362-9689	1	SCREW-SPECIAL						
					AVAILABLE REPAIR KIT(S):						
362-5412				1	KIT-DRAIN						
					(INCLUDES DRAIN, KNOB, & SEAL REPLACEMENTS)						
Y - SEPARATE ILLUSTRATION											



GRAPHIC #1

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g03379539

FUEL SYSTEM

421-5685 FILTER GP-FUEL

PART OF 426-3296 FILTER GP-FUEL

SMCS-1261

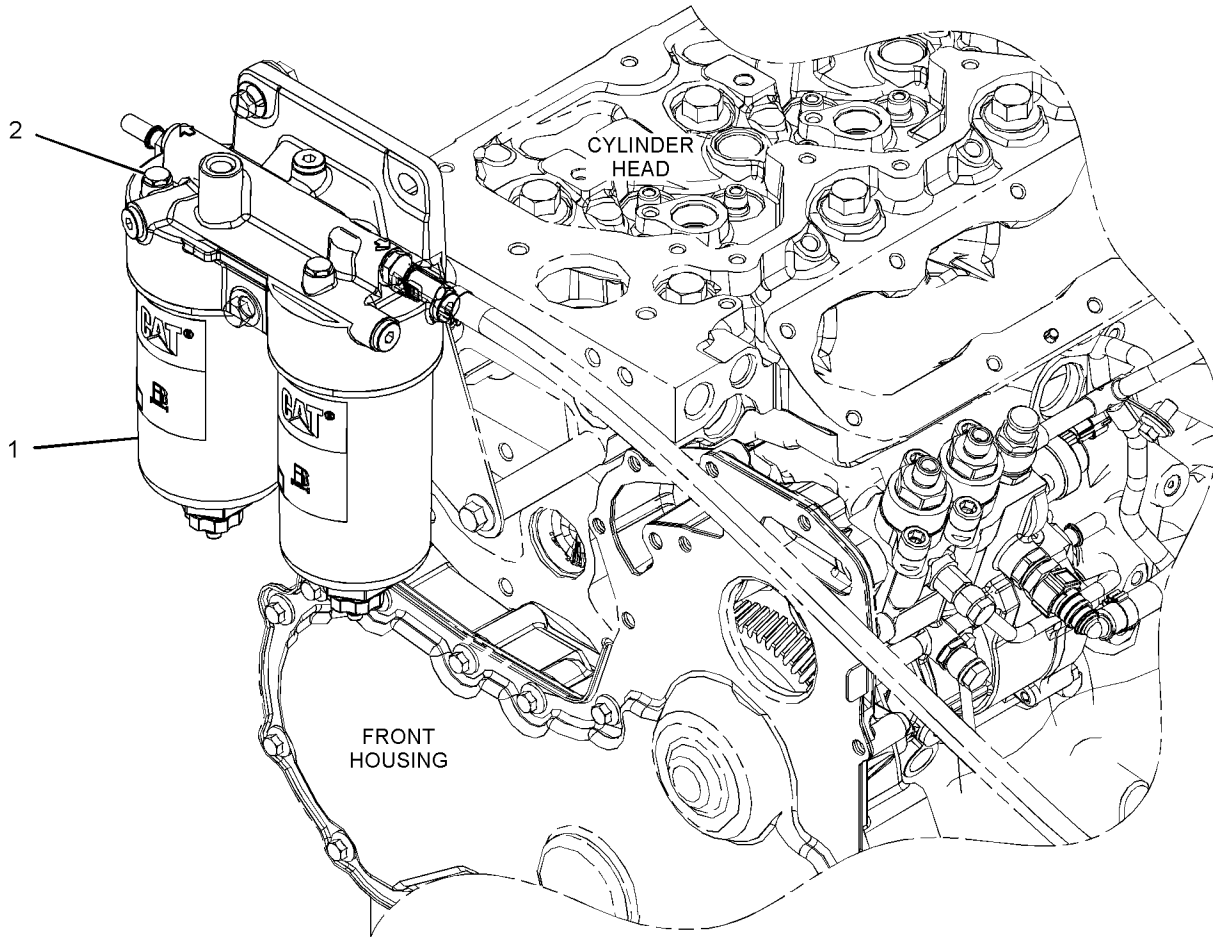
i05718369

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	360-8958	2	FILTER GP-FUEL	198
	2	1	362-9689	2	SCREW-SPECIAL	

AVAILABLE REPAIR KIT(S) :

362-5412 1 KIT-DRAIN

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03489376

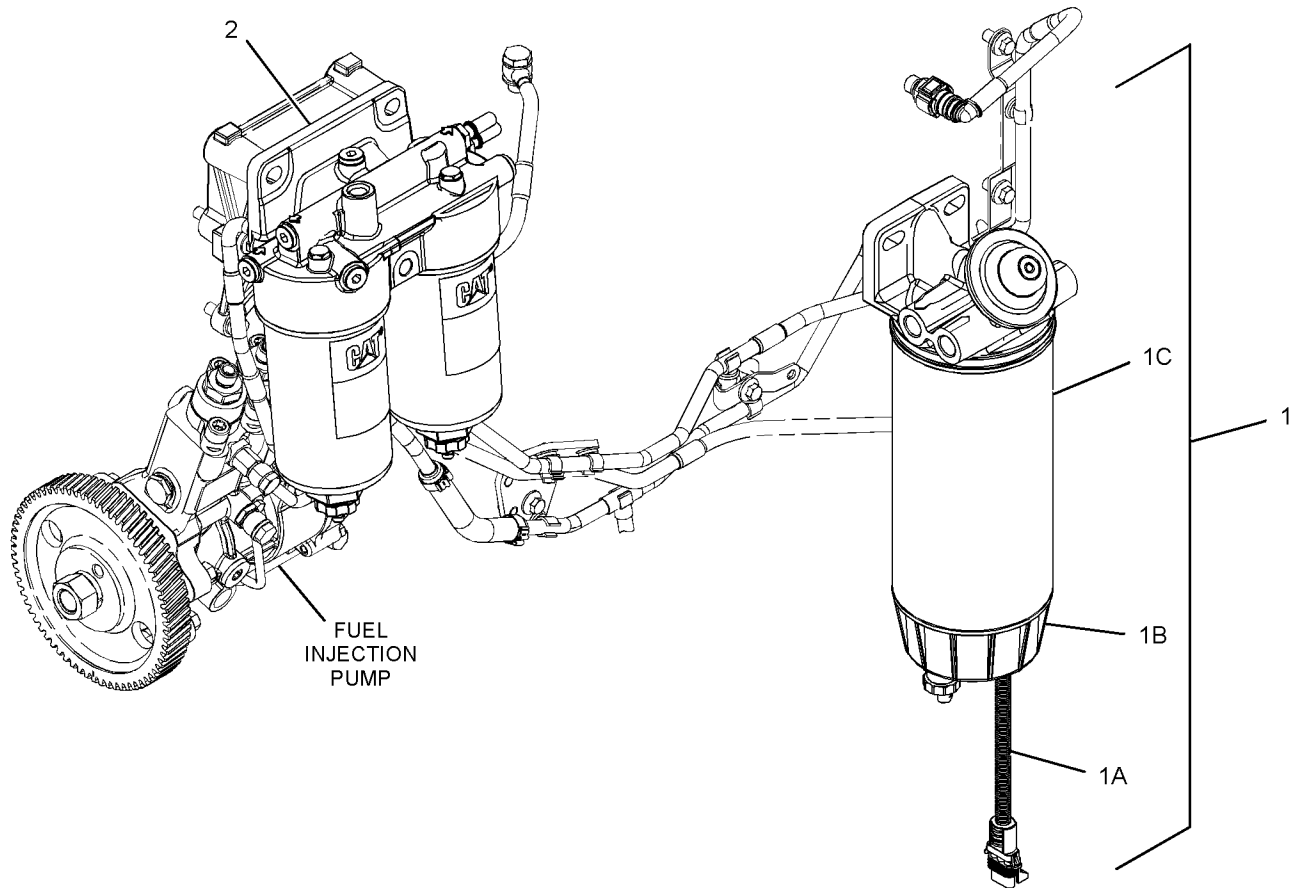
FUEL SYSTEM

426-3290 FILTER GP-FUEL

SMCS-1261

i05831729

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	394-3484	1	FILTER GP-WATER SEP & FUEL	
	1A	1	394-3438	1	SENSOR GP-LEVEL (WATER SEPARATOR)	
	1B	1	416-7743	1	BOWL AS	
	1C	1	416-7740	1	FILTER AS-WATER SEP & FUEL	
Y	2	1	421-5684	1	FILTER GP-FUEL	201
Y - SEPARATE ILLUSTRATION						



GRAPHIC #1

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g03556068

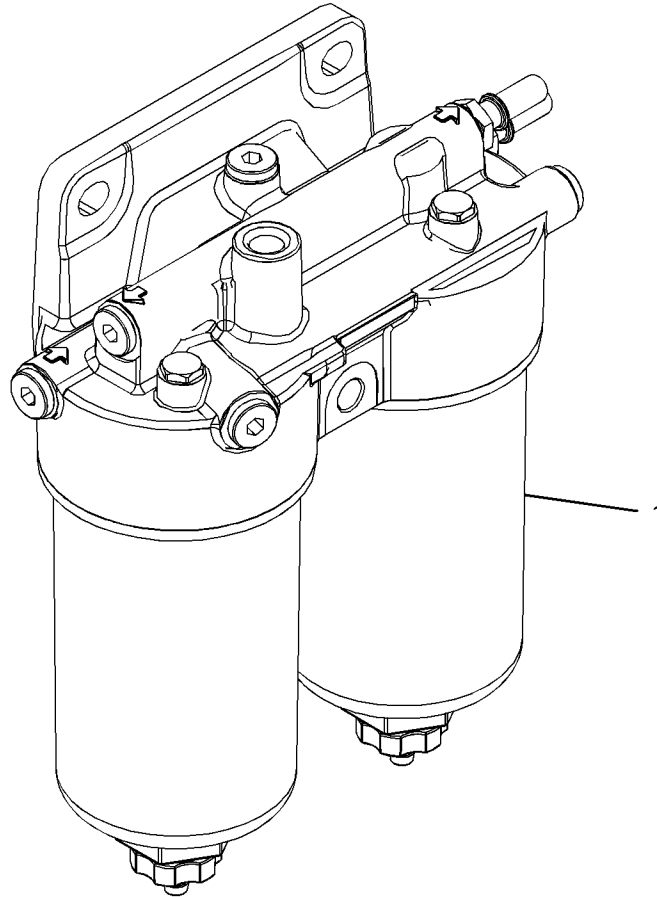
FUEL SYSTEM

426-3292 FILTER GP-FUEL

SMCS-1261

i05723848

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	421-5684	1	FILTER GP-FUEL	201
Y - SEPARATE ILLUSTRATION						



GRAPHIC #1

<END>

g03379517

FUEL SYSTEM

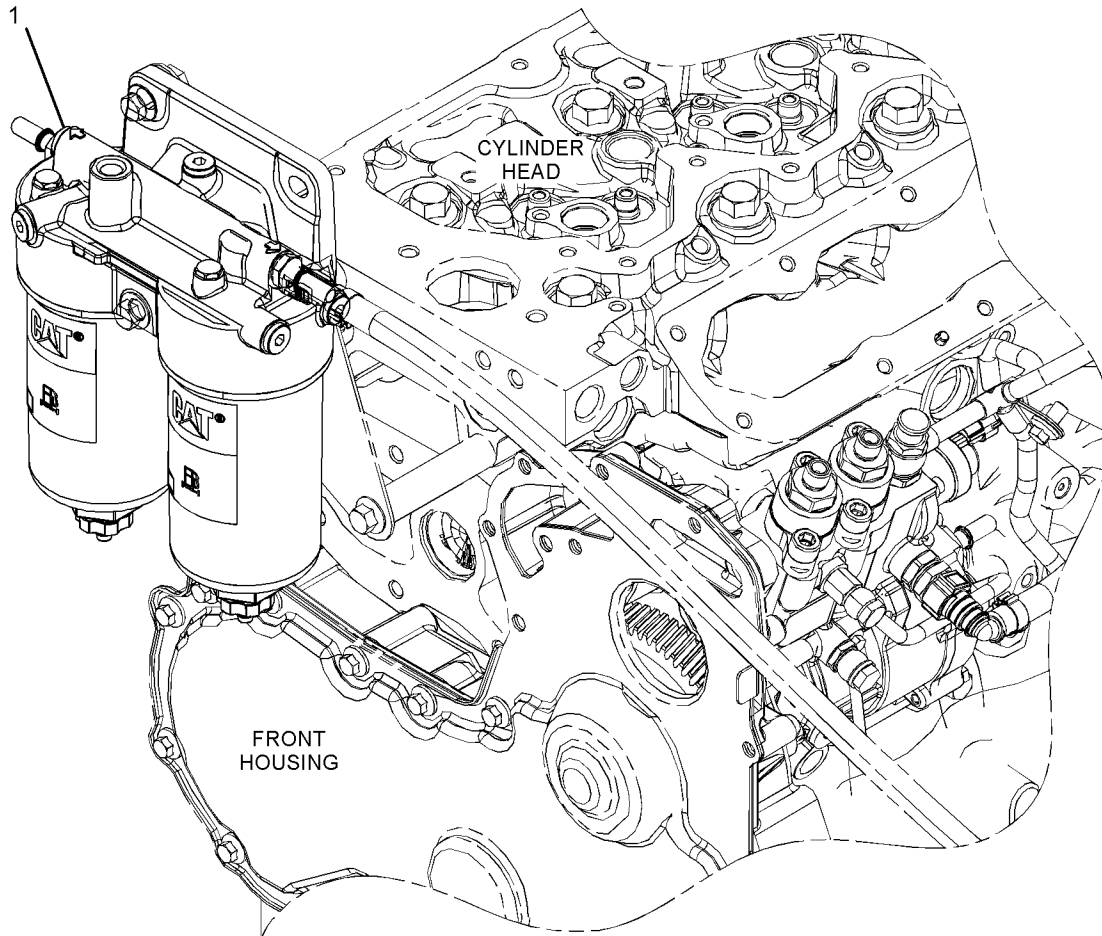
426-3296 FILTER GP-FUEL

SMCS-1261

i05584296

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	421-5685	1	FILTER GP-FUEL						202

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

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g03487549

FUEL SYSTEM

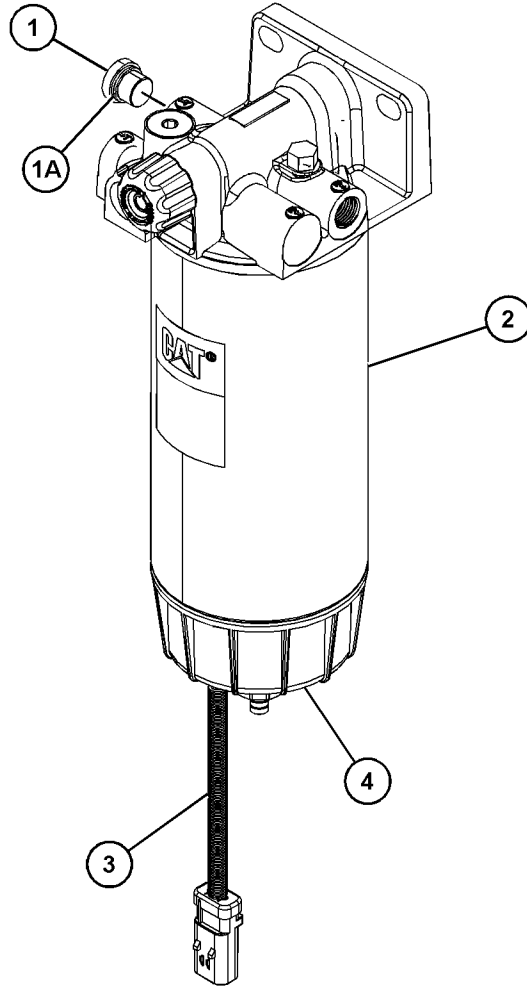
438-7763 FILTER GP-FUEL

PART OF 441-1215 FILTER GP-FUEL

SMCS-1261

i05584310

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	192-9207	1	PLUG						
	1A	1	126-9093	1	SEAL						
	2	1	439-5037	1	FILTER AS-WATER SEP & FUEL						
	3	1	439-5039	1	SENSOR GP-LIQUID LEVEL						
	4	1	439-5040	1	BOWL AS						



GRAPHIC #1

<END>

g03540796

FUEL SYSTEM

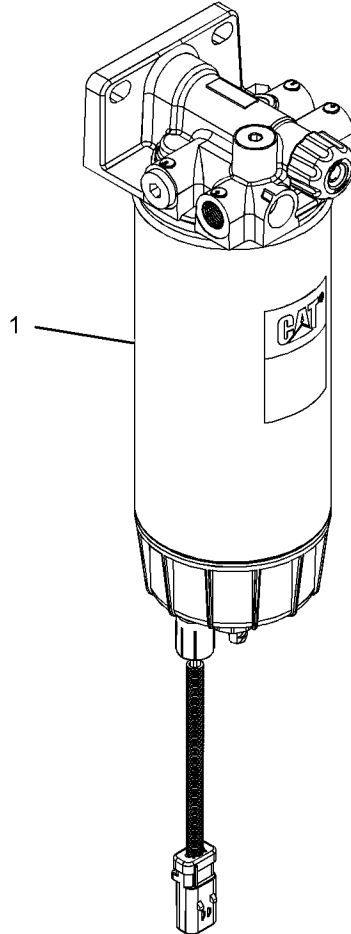
441-1215 FILTER GP-FUEL

SMCS-1261

i05723716

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	438-7763	1	FILTER GP-FUEL						206

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

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g03535423

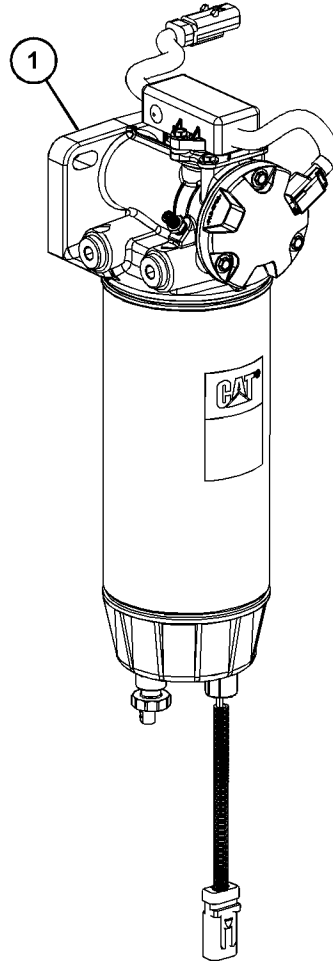
FUEL SYSTEM

441-1222 FILTER GP-FUEL

SMCS-1261

i05716470

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	444-5022	1	FILTER GP-WATER SEP & FUEL	213
Y - SEPARATE ILLUSTRATION						



GRAPHIC #1

<END>

g03651398

FUEL SYSTEM

448-0935 FILTER GP-FUEL LINES

SMCS-1261

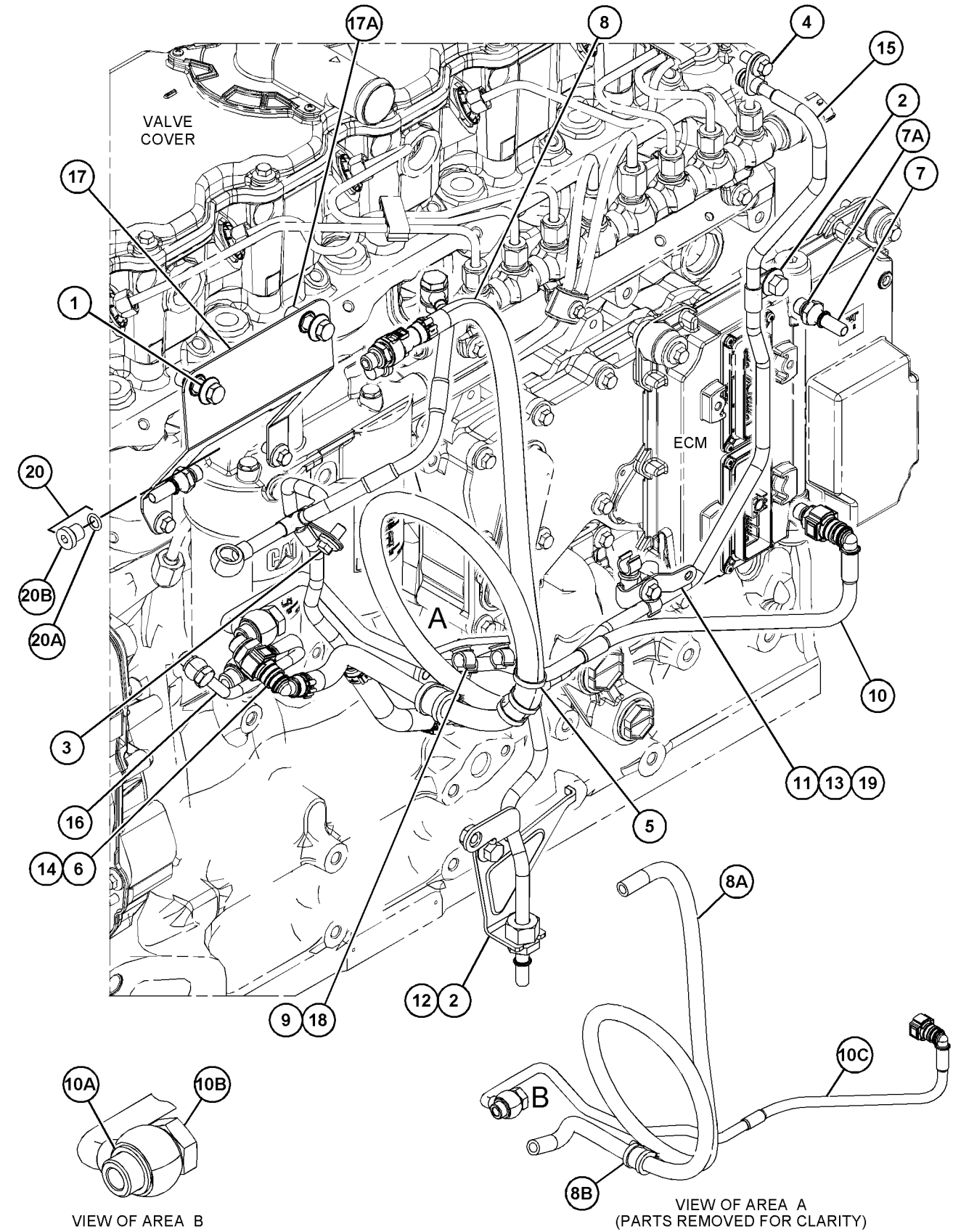
i05733090

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0654	2	BOLT (M10X1.5X25-MM)						
M	2	1	6I-4200	2	BOLT (M10X1.5X16-MM)						
	3	1	100-4458	4	BOLT (M8X1.25X14-MM)						
M	4	1	124-3815	1	BOLT (M8X1.25X16-MM)						
	5	1	311-2732	3	TIE-CABLE						
	6	1	348-0495	1	WASHER						
	7	1	356-3986	4	CONNECTOR AS						
					(EACH INCLUDES)						
	7A	1	277-4993	1	SEAL-O-RING						
	8	1	379-8434	1	LINE AS-FUEL						
E	8A	1	347-8645		HOSE (204-CM)						
	8B	1	351-4318	1	CLIP						
	9	1	387-3577	1	SUPPORT GP-LINES						
	10	1	389-3789	1	LINES GP-FUEL						
	10A	1	247-4928	2	WASHER (16.5X20.5X1.6-MM THK)						
	10B	1	386-2737	1	BOLT-BANJO						
	10C	1	389-3786	1	LINE AS-FUEL						
	11	1	389-5775	1	BRACKET						
	12	1	390-0755	1	BRACKET AS						
	13	1	391-1817	1	SUPPORT GP-LINES						
	14	1	391-2493	1	CONNECTION-FUEL						
Y	15	1	425-2178	1	LINES GP-FUEL						217
Y	16	1	433-1316	1	LINES GP-FUEL						218
	17	1	448-2191	1	BRACKET AS						
M	17A	1	322-0819	2	INSERT-THREADED (M10X1.5-THD)						
M	18	1	6I-0217	1	BOLT (M8X1.25X20-MM)						
M	19	1	6I-0260	1	BOLT (M8X1.25X25-MM)						
	20	1	330-9723	2	PLUG AS						
					(EACH INCLUDES)						
	20A	1	228-7100	1	SEAL-O-RING						
	20B	1	241-6157	1	PLUG						
E - ORDER BY THE CENTIMETER											
M - METRIC PART											
Y - SEPARATE ILLUSTRATION											

FUEL SYSTEM

448-0935 FILTER GP-FUEL (contd.)

i05733090



<END>

g03653418

FUEL SYSTEM

452-8547 FILTER GP-FUEL

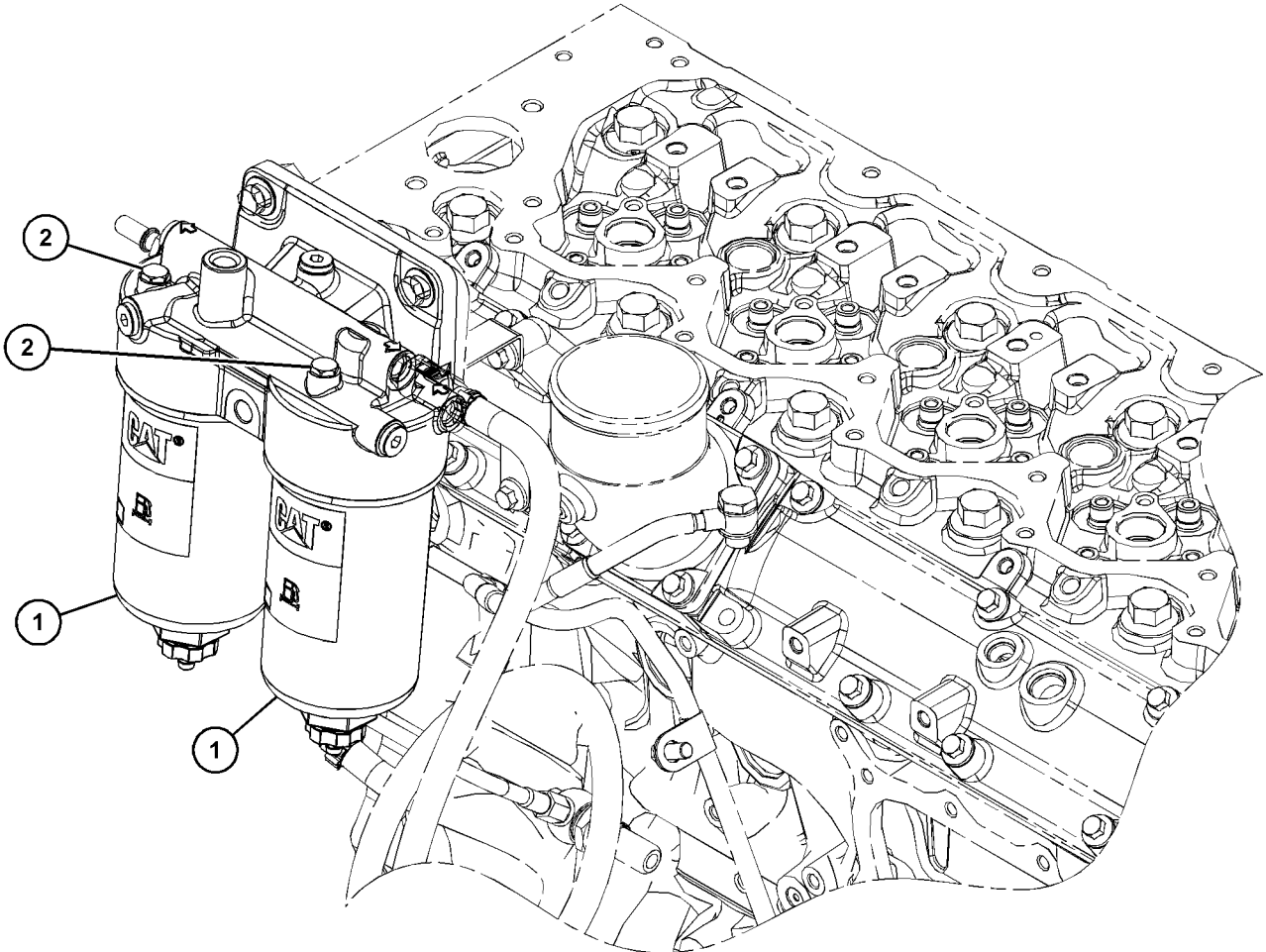
PART OF 453-7163 FILTER GP-FUEL

SMCS-1261

i05836352

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
Y	1	1	360-8958	2	FILTER GP-FUEL	198
	2	1	362-9689	2	SCREW-SPECIAL	
					AVAILABLE REPAIR KIT(S) :	
362-5412				2	KIT-DRAIN	
(EACH KIT INCLUDES DRAIN, KNOB & SEAL)						

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

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g03701881

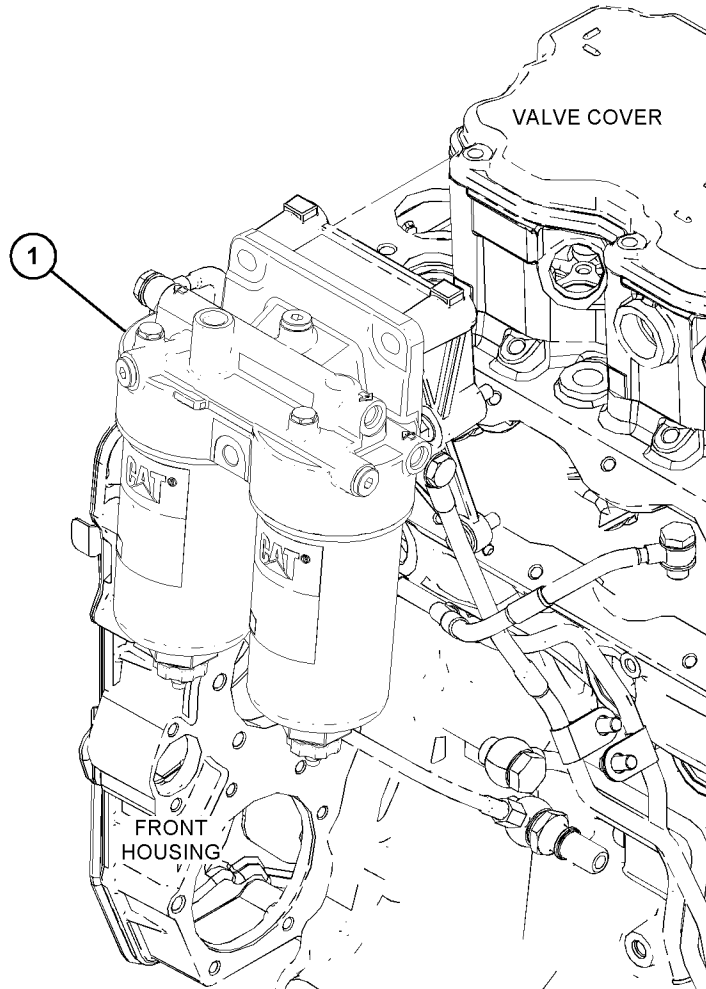
FUEL SYSTEM

453-7163 FILTER GP-FUEL

SMCS-1261

i05836344

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	452-8547	1	FILTER GP-FUEL	211
Y - SEPARATE ILLUSTRATION						



GRAPHIC #1

<END>

g03695817

FUEL SYSTEM

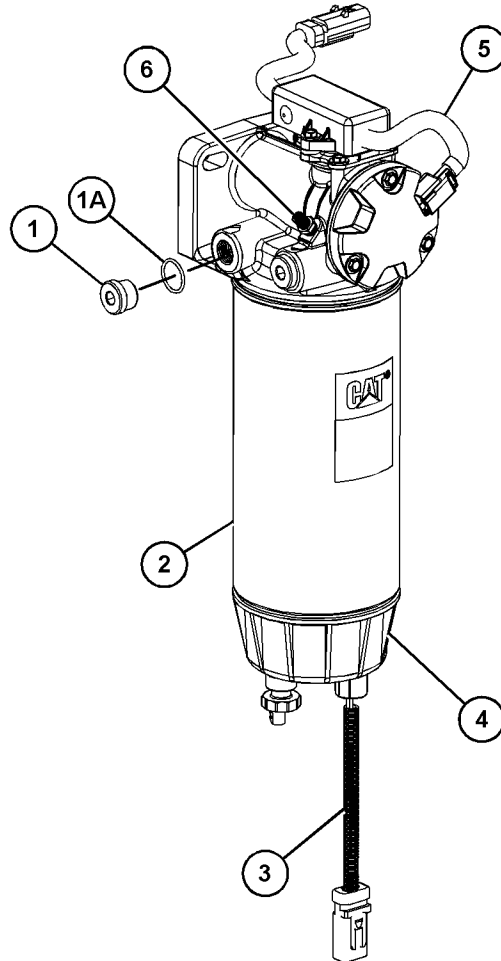
444-5022 FILTER GP-WATER SEP & FUEL

PART OF 441-1222 FILTER GP-FUEL

SMCS-1261, 1263

i05729816

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	192-9207	2	PLUG						
	1A	1	126-9093	1	SEAL						
	2	1	439-5037	1	FILTER AS-WATER SEP & FUEL						
	3	1	439-5039	1	SENSOR GP-LIQUID LEVEL						
	4	1	439-5040	1	BOWL AS						
	5	1	446-0105	1	MODULE AS						
	6	1	445-5511	1	VALVE AS-FILTER						



GRAPHIC #1

<END>

g03651397

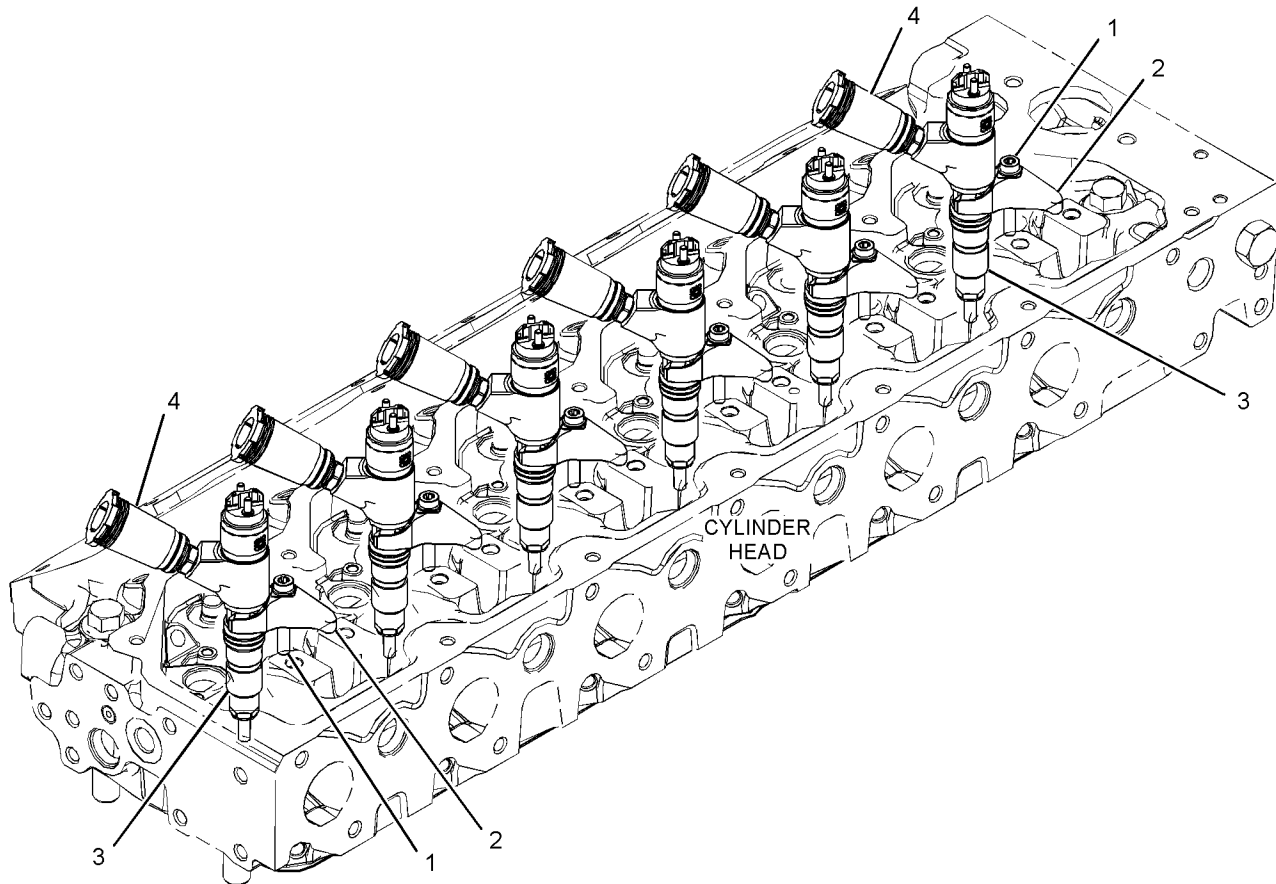
FUEL SYSTEM

371-2483 INJECTOR GP-FUEL

SMCS-1251, 1254, 1290, 1713

i05859659

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	278-5170	6	BOLT						
	2	1	369-7799	6	CLAMP - INJECTOR						
	3	1	371-3974	6	INJECTOR GP-FUEL						
					(EACH INCLUDES)						
		1	376-6403	1	WASHER - SEAL						
		1	376-6405	1	SEAL - O-RING						
	4	1	277-5067	6	SLEEVE						



GRAPHIC #1

<END>

g03378802

FUEL SYSTEM

396-9626 INJECTOR GP-FUEL

PART OF 416-8908 INJECTOR GP-FUEL

SMCS-1251, 1254, 1290, 1713

i05584297

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	376-6403	1	WASHER - SEAL						
	376-6405	1	SEAL - O - RING						
<END>									

FUEL SYSTEM

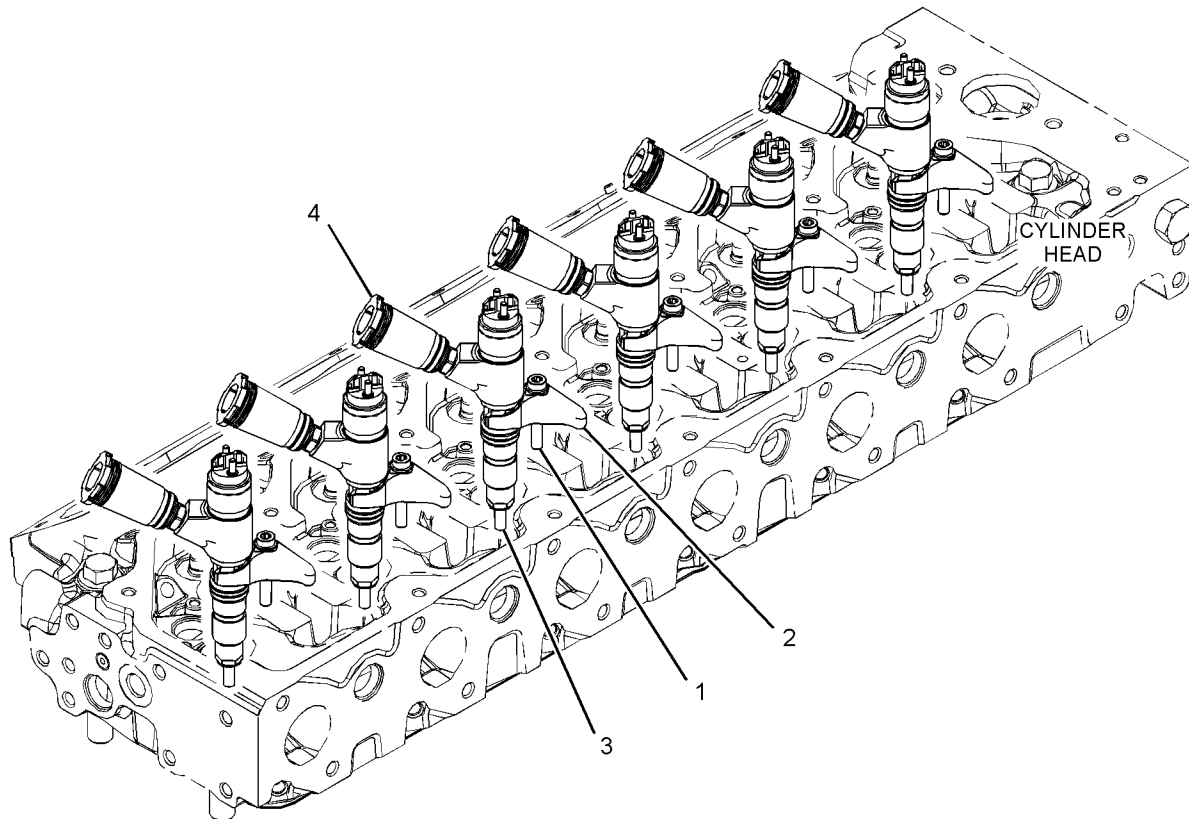
416-8908 INJECTOR GP-FUEL

SMCS-1251, 1254, 1290, 1713

i05723853

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	278-5170	6	BOLT						
	2	1	369-7799	6	CLAMP-INJECTOR						
Y	3	1	396-9626	6	INJECTOR GP-FUEL						215
	4	1	277-5067	6	SLEEVE						

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

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g03535641

FUEL SYSTEM

425-2178 LINES GP-FUEL

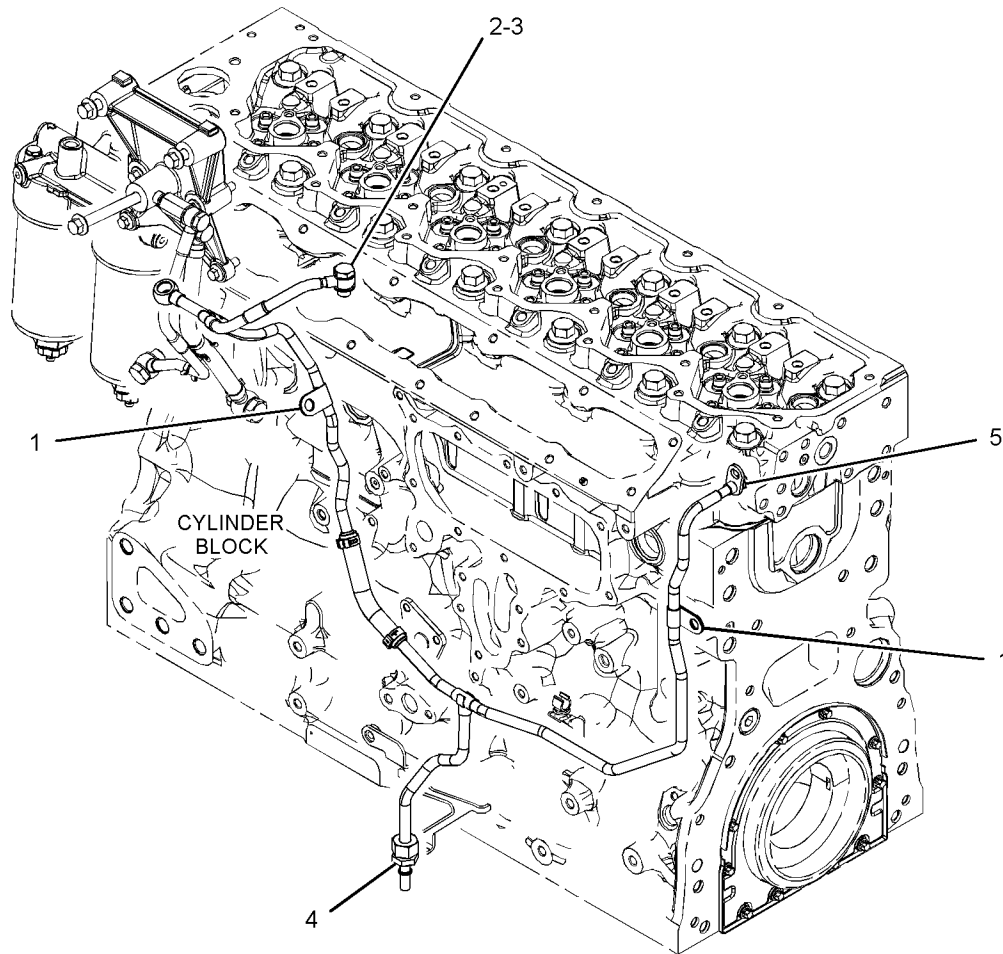
PART OF 448-0935 FILTER GP-FUEL

SMCS-1274

i05581212

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	349-6847	2	CLIP						
	2	1	377-5988	1	BOLT						
	3	1	286-2890	2	WASHER						
M	4	1	161-7614	1	NUT (M16X1.5-THD)						
	5	1	277-4993	1	SEAL-O-RING						

M - METRIC PART



GRAPHIC #1

<END>

g03384683

FUEL SYSTEM

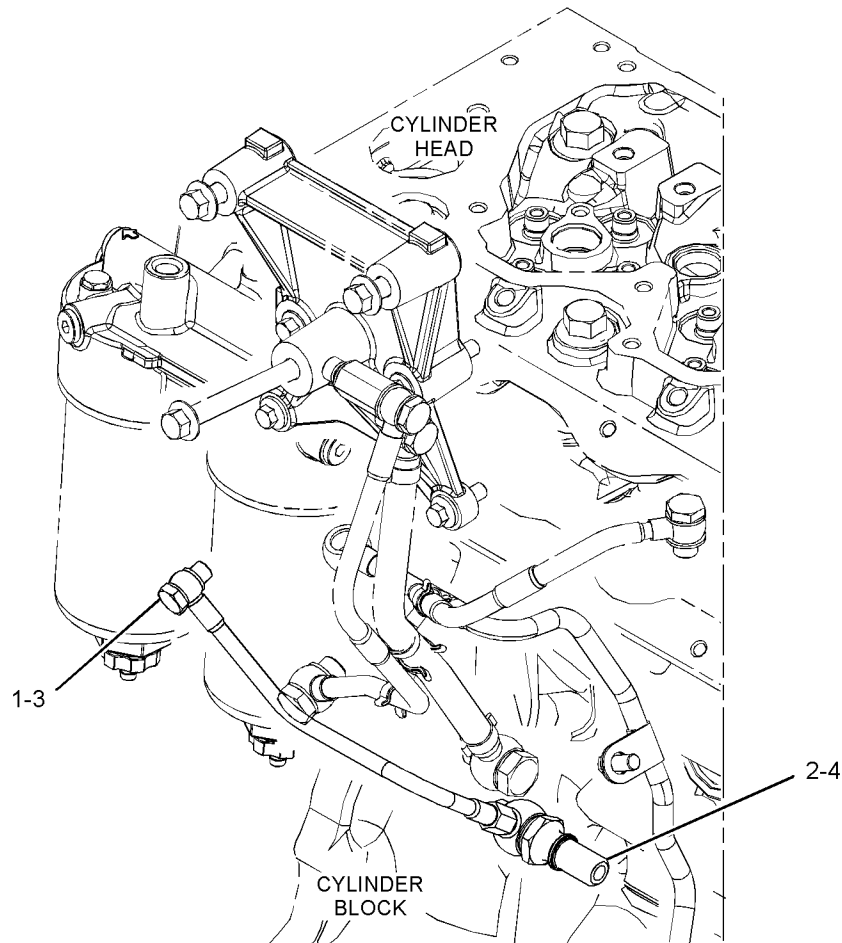
433-1316 LINES GP-FUEL

PART OF 398-7221, 448-0935 FILTER GP-FUEL, 426-3310 LINES GP-FUEL INJECTION

SMCS-1274

i05581215

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	246-4361	2	WASHER (10.5X14X1.5-MM THK)						
	2	1	385-1398	1	CONNECTION-FUEL						
	3	1	386-1864	1	BOLT-BANJO						
	4	1	247-4928	2	WASHER (16.5X20.5X1.6-MM THK)						



GRAPHIC #1

<END>

g03384847

FUEL SYSTEM

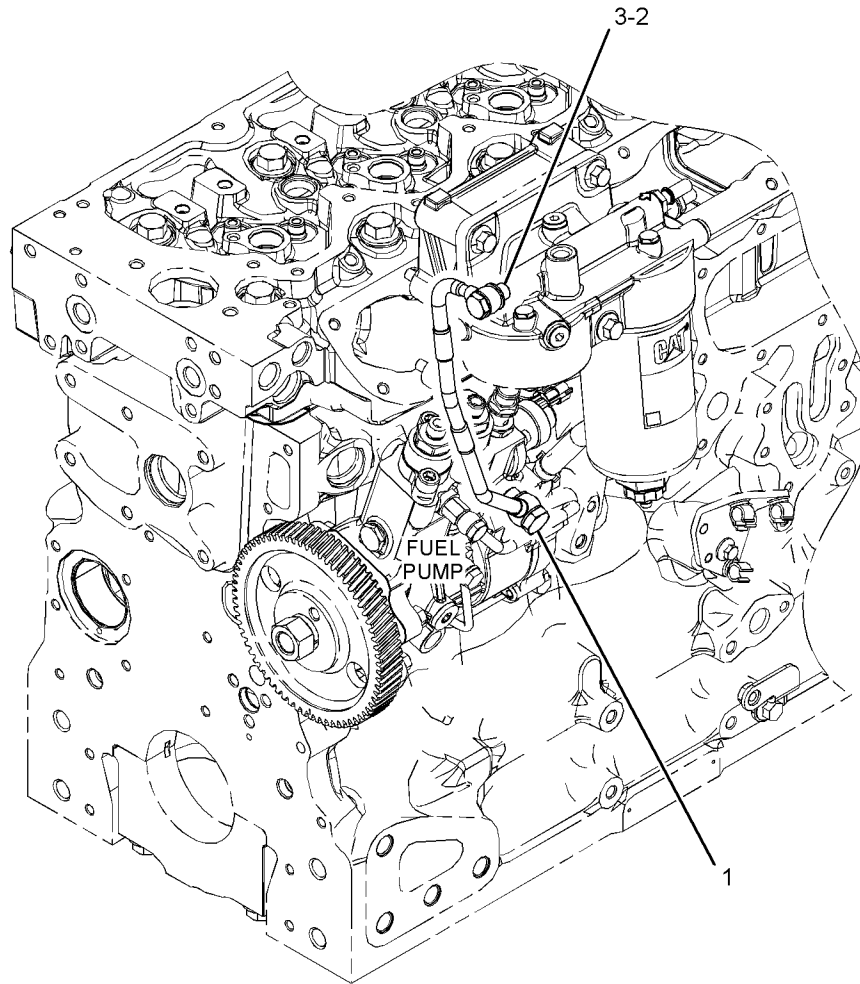
442-8465 LINES GP-FUEL PART OF 426-3310 LINES GP-FUEL INJECTION

SMCS-1274

i06023111

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	277-9938	1	BOLT-SPECIAL (BANJO)						
	2	1	286-2890	2	WASHER						
	3	1	295-4670	1	BOLT-SPECIAL (BANJO)						

M - METRIC PART



GRAPHIC #1

<END>

g03564656

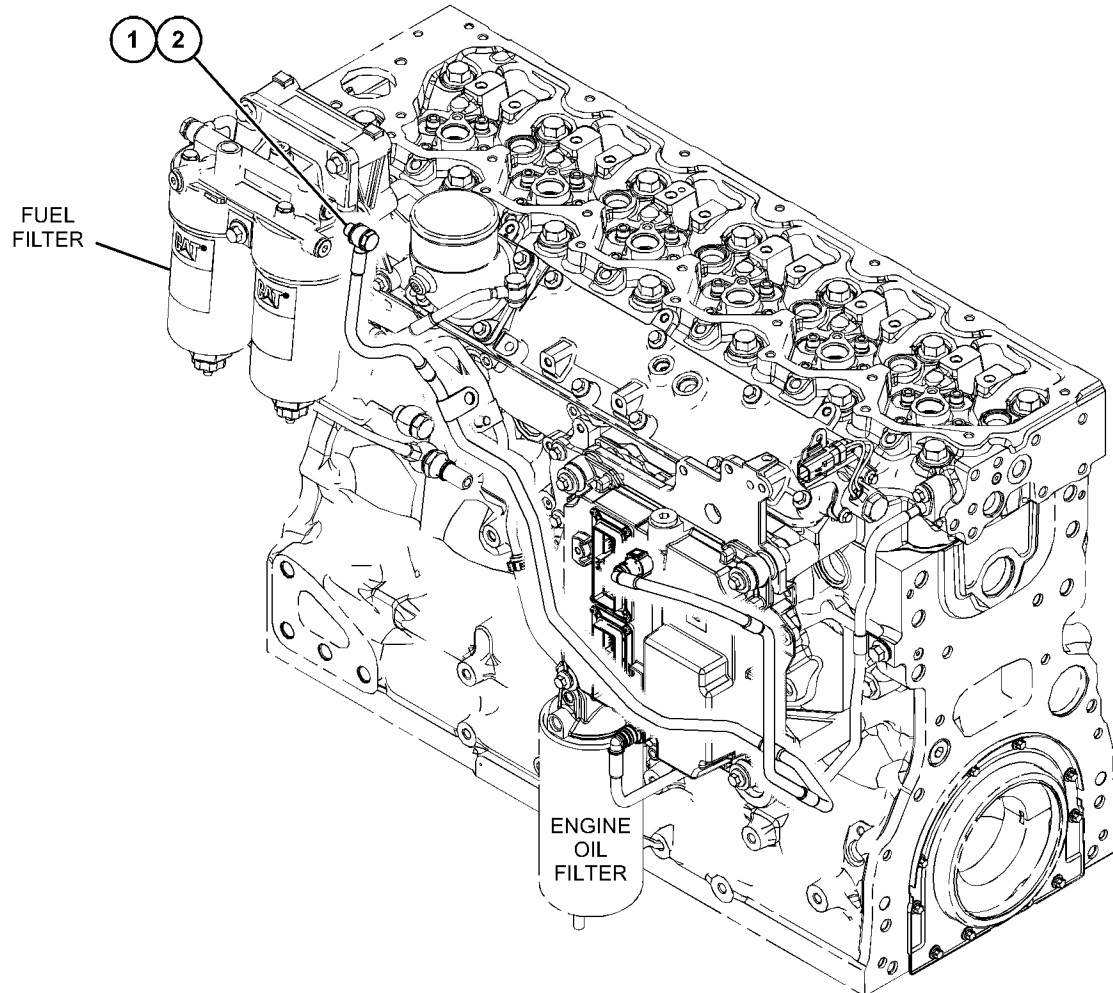
FUEL SYSTEM

464-7891 LINES GP-FUEL PART OF 426-3310 LINES GP-FUEL INJECTION

SMCS-1274

i05981455

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	286-2890	2	WASHER						
	2	1	295-4670	1	BOLT-SPECIAL (BANJO)						



GRAPHIC #1

<END>

g03805077

FUEL SYSTEM

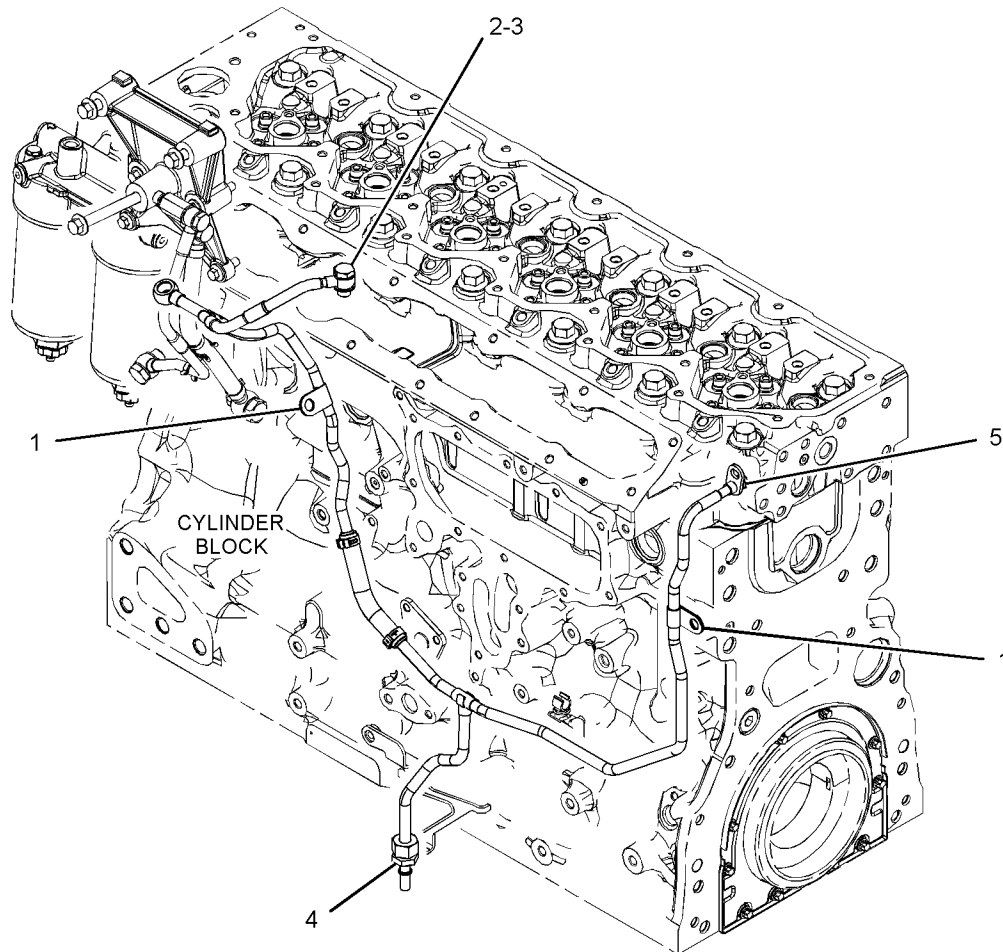
464-7899 LINES GP-FUEL PART OF 426-3310 LINES GP-FUEL INJECTION

SMCS-1274

i06022309

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	349-6847	2	CLIP						
	2	1	377-5988	1	BOLT						
	3	1	286-2890	2	WASHER						
M	4	1	161-7614	1	NUT (M16X1.5-THD)						
	5	1	277-4993	1	SEAL-O-RING						

M - METRIC PART



GRAPHIC #1

<END>

g03384683

FUEL SYSTEM

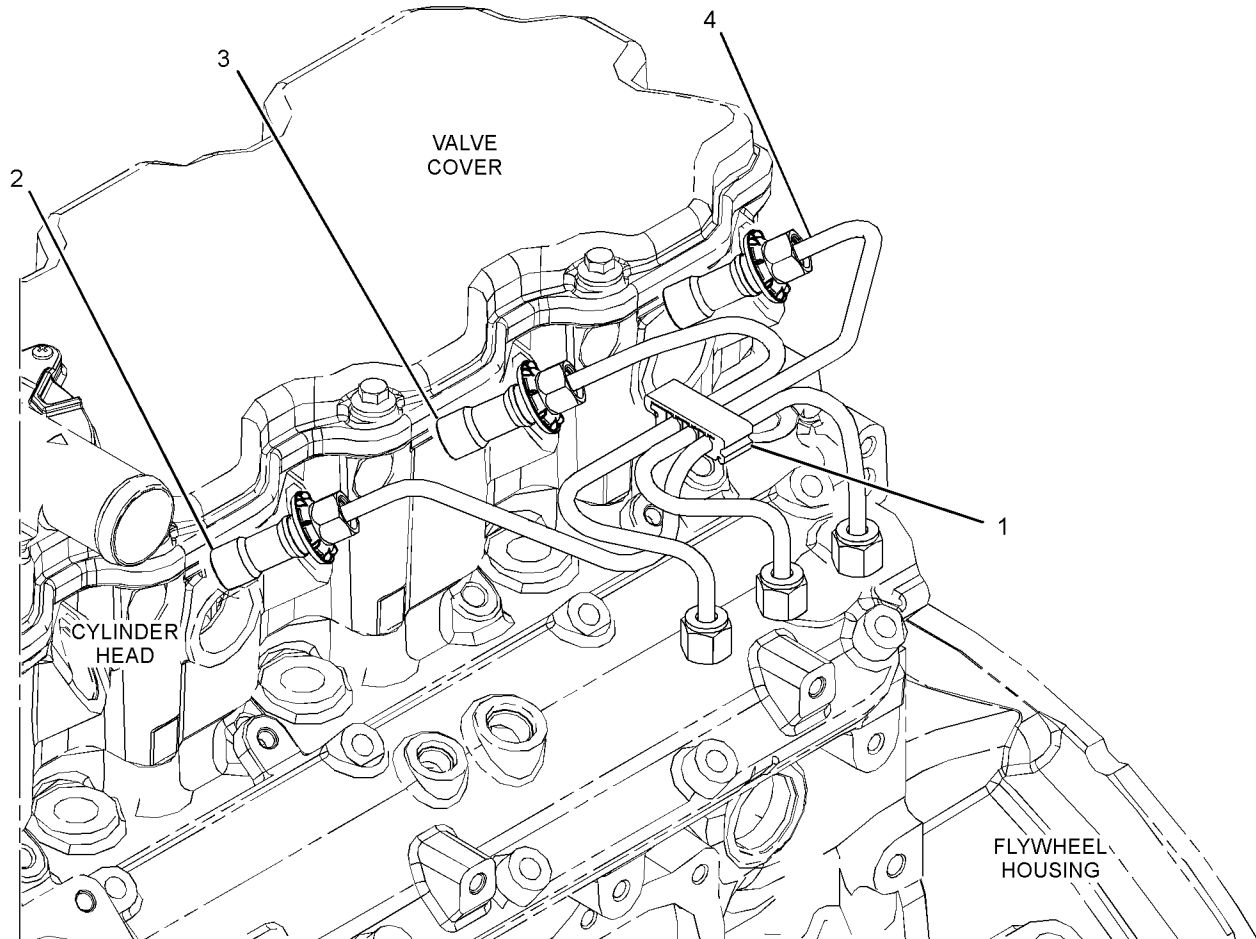
370-5520 LINES GP-FUEL INJECTION

PART OF 394-9639 RAIL GP-FUEL

SMCS-1252, 1254

i05581251

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	395-1633	1	BRACKET AS						
		1	6I-0631	1	BOLT (M6X1X12-MM)						
	2	1	370-5516	1	LINE AS-FUEL INJECTION						
	3	1	370-5517	1	LINE AS-FUEL INJECTION						
	4	1	370-5518	1	LINE AS-FUEL INJECTION						



GRAPHIC #1

<END>

g03380791

FUEL SYSTEM

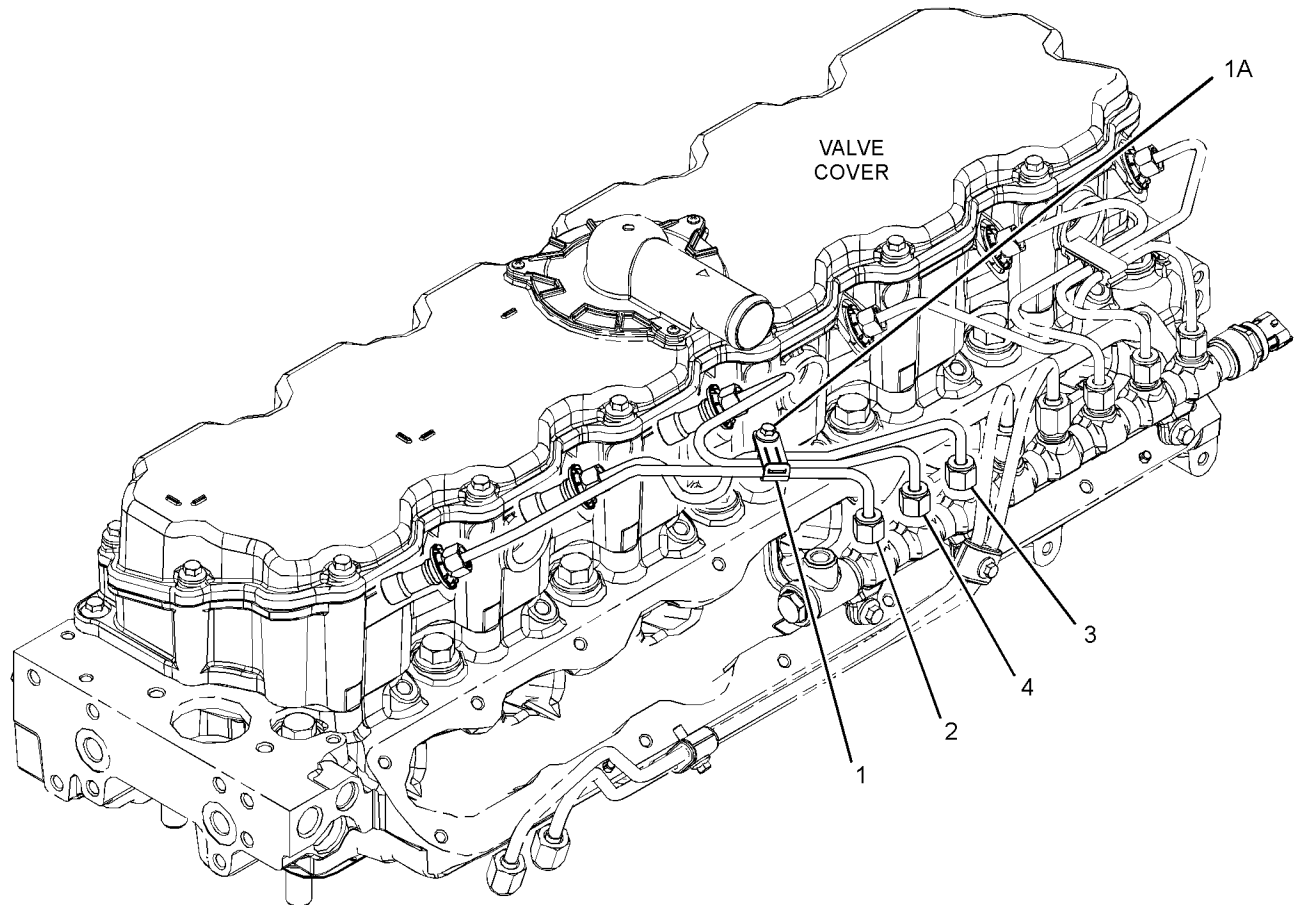
394-0525 LINES GP-FUEL INJECTION

PART OF 394-9639 RAIL GP-FUEL

SMCS-1252, 1254

i05581253

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	395-1633	1	BRACKET AS						
	1A	1	6I-0631	1	BOLT (M6X1X12-MM)						
	2	1	370-5513	1	LINE AS-FUEL						
	3	1	393-5467	1	LINE AS-FUEL						
	4	1	393-5468	1	LINE AS-FUEL						



GRAPHIC #1

<END>

g03479680

FUEL SYSTEM

426-3310 LINES GP-FUEL INJECTION

SMCS-1252, 1254

i05997090

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0593	2	BOLT (M10X1.5X30-MM)						
M	2	1	6I-4200	2	BOLT (M10X1.5X16-MM)						
	3	1	100-4458	5	BOLT (M8X1.25X14-MM)						
	4	1	164-7468	1	BOLT (M10X1.5X95-MM)						
	5	1	356-3986	2	CONNECTOR AS						
					(EACH INCLUDES)						
		1	277-4993	1	SEAL-O-RING						
	6	1	387-3577	1	SUPPORT GP-LINES						
	7	1	389-3789	1	LINES GP-FUEL						
	7A	1	247-4928	2	WASHER (16.5X20.5X1.6-MM THK)						
	7B	1	386-2737	1	BOLT-BANJO						
	8	1	389-5775	1	BRACKET						
	9	1	389-5777	1	SUPPORT GP-LINES						
	9A	1	389-5776	1	BRACKET						
	10	1	389-5784	1	BRACKET-FILTER						
	11	1	390-0755	1	BRACKET AS						
	12	1	391-1817	1	SUPPORT GP-LINES						
Y	13	1	464-7891	1	LINES GP-FUEL						220
Y	14	1	464-7899	1	LINES GP-FUEL						221
Y	15	1	433-1316	1	LINES GP-FUEL						218
Y	16	1	442-8465	1	LINES GP-FUEL						219
M	17	1	6I-0217	1	BOLT (M8X1.25X20-MM)						
M	18	1	6I-0260	3	BOLT (M8X1.25X25-MM)						
	19	1	208-9287	2	BOLT-FLANGE HEAD (M8X1.25X50-MM)						
	20	1	330-9723	2	PLUG AS						
					(EACH INCLUDES)						
		1	228-7100	1	SEAL-O-RING						
		1	241-6157	1	PLUG						

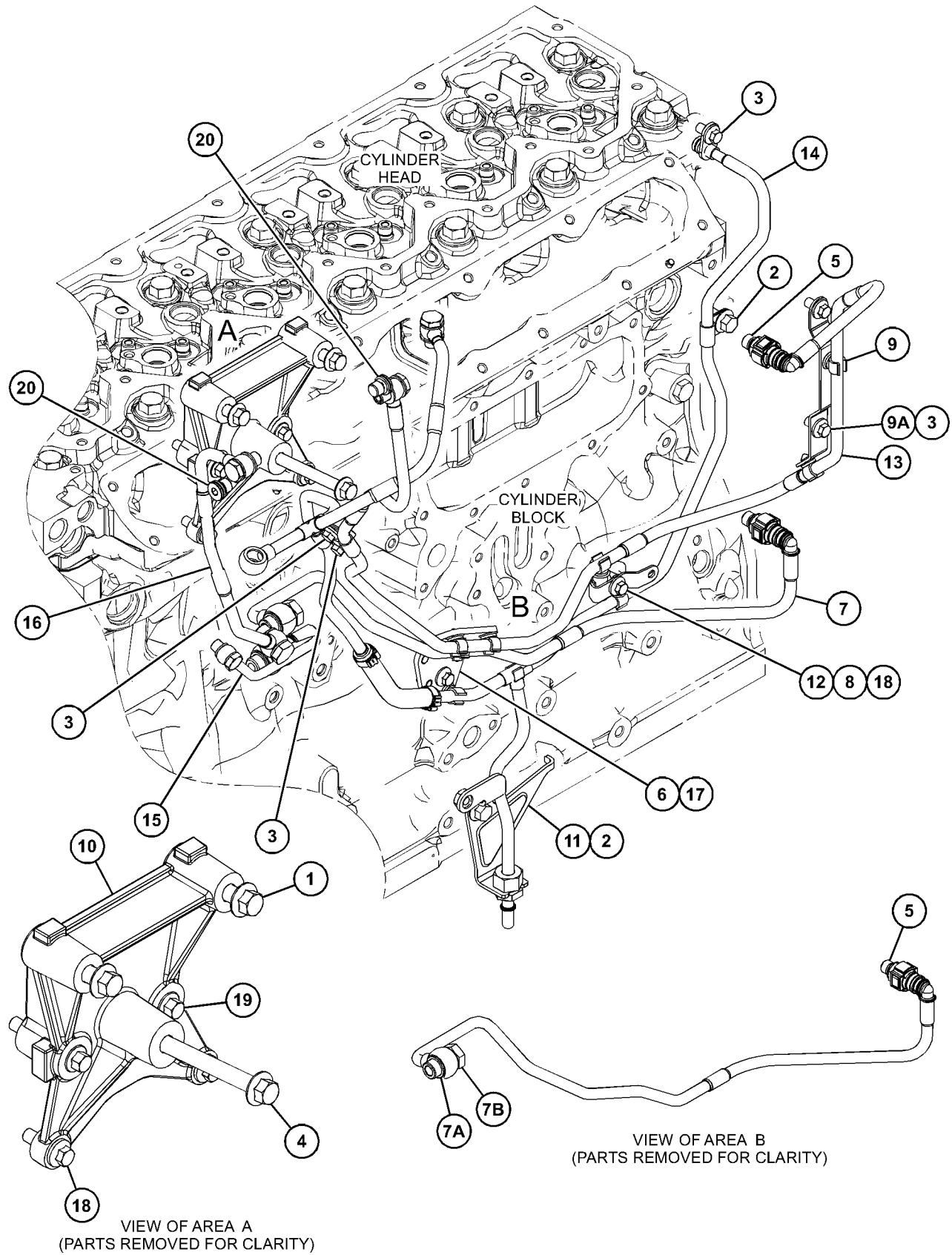
M - METRIC PART

Y - SEPARATE ILLUSTRATION

FUEL SYSTEM

426-3310 LINES GP-FUEL INJECTION (contd.)

i05997090



GRAPHIC #1

<END>

g03804785

FUEL SYSTEM

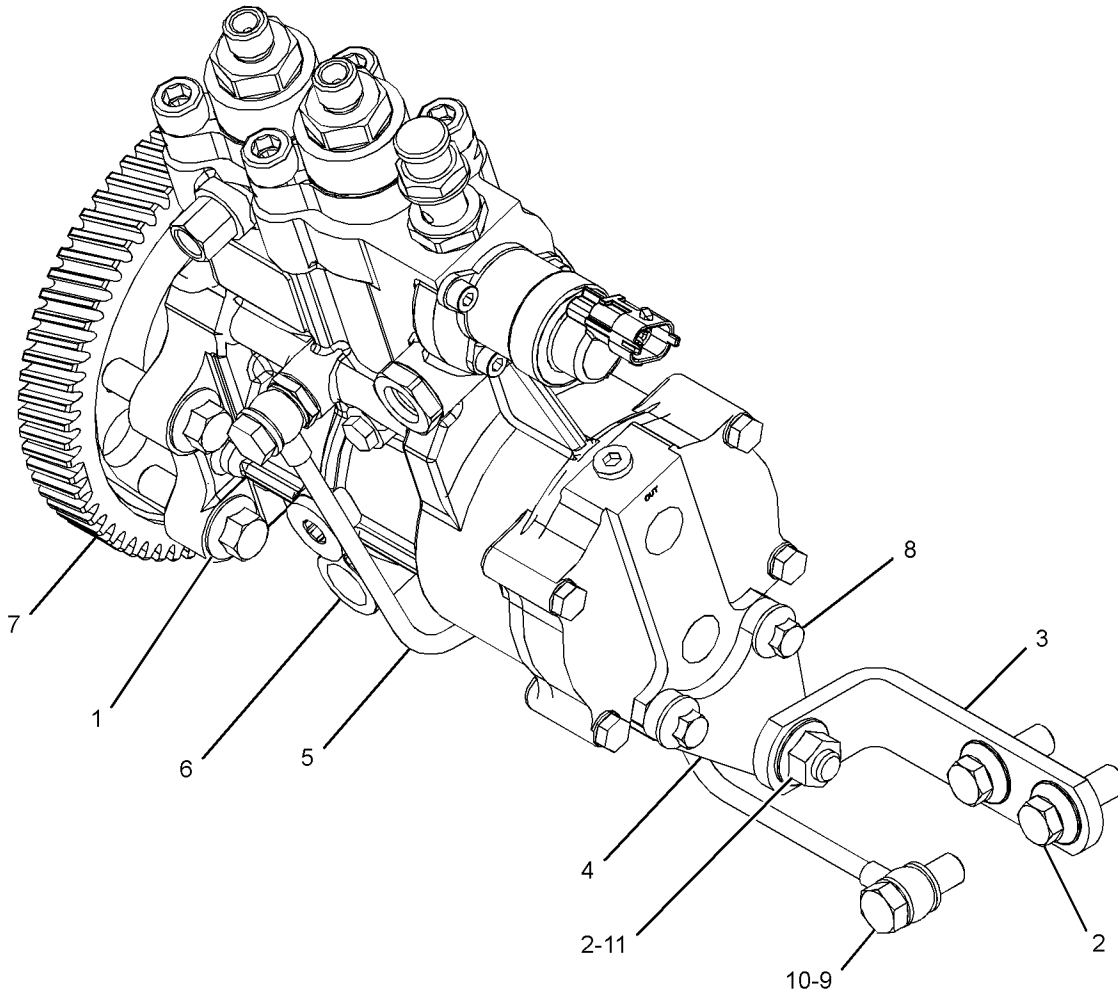
391-4811 PUMP GP-FUEL INJECTION

SMCS-1251, 1290

i05723842

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	286-0123	4	BOLT						
M	2	1	6I-0654	3	BOLT (M10X1.5X25-MM)						
	3	1	371-2684	1	BRACKET						
	4	1	371-2691	1	BRACKET						
	5	1	371-7263	1	LINE AS-FUEL						
	6	1	375-2647	1	PUMP GP-FUEL INJECTION						
		1	375-8254	1	VALVE						
		1	376-6409	1	SEAL						
		1	376-6410	1	RETAINER-WASHER						
		1	376-6411	1	NUT-SHAFT						
		1	386-2971	2	WASHER						
		1	386-2976	2	WASHER						
		1	386-3819	1	KEY-SHAFT						
	7	1	387-8412	1	GEAR-FUEL PUMP						
M	8	1	6I-0217	2	BOLT (M8X1.25X20-MM)						
	9	1	346-0006	1	BOLT-SPECIAL						
	10	1	346-0007	2	WASHER						
M	11	1	6I-0594	1	NUT (M10X1.5-THD)						

M - METRIC PART



GRAPHIC #1

<END>

g03378913

FUEL SYSTEM

394-9639 RAIL GP-FUEL

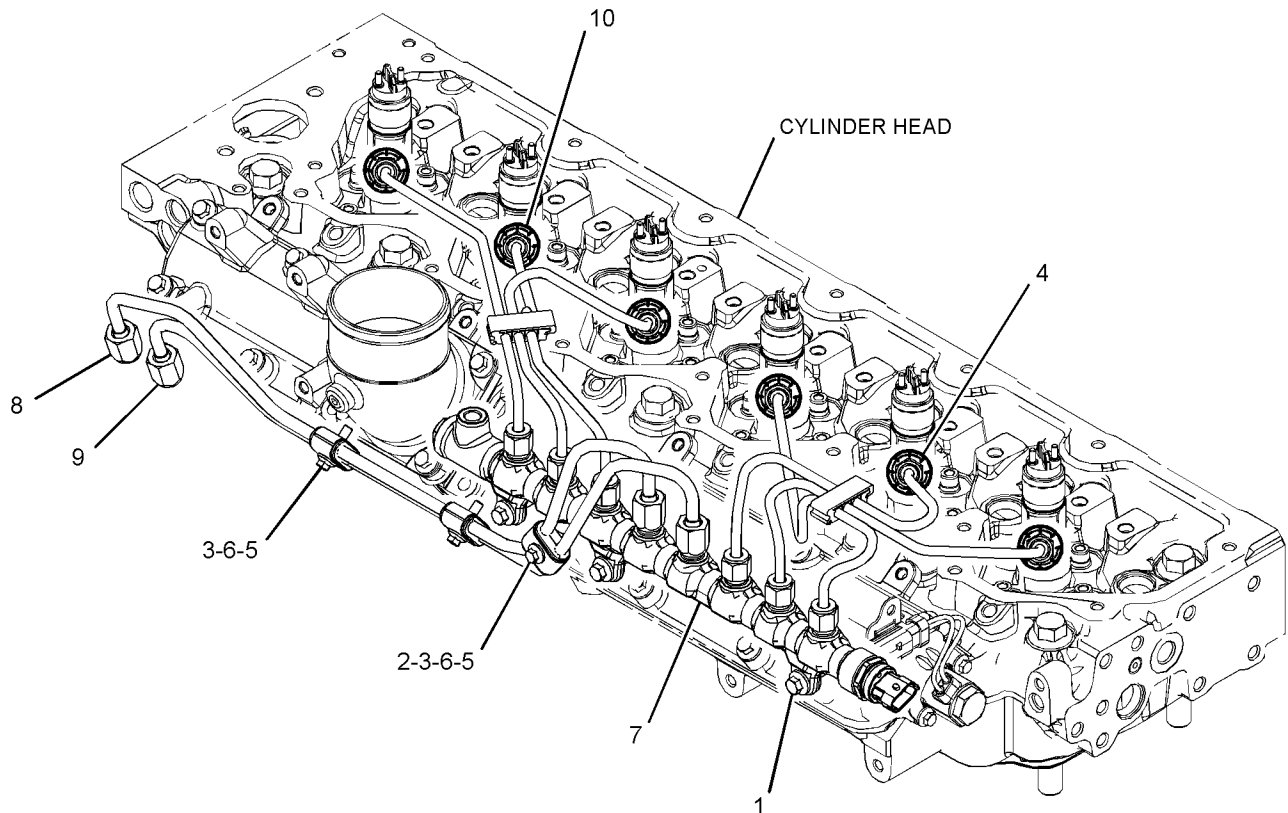
SMCS-1288

i05723847

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	61-0260	3	BOLT (M8X1.25X25-MM)						
M	2	1	099-6418	1	NUT (M6X1-THD)						
	3	1	206-1826	2	BOLT						
Y	4	1	370-5520	1	LINES GP-FUEL INJECTION						222
	5	1	375-0482	4	CLAMP-PIPE						
	6	1	375-0483	2	INSERT-CLAMP						
	7	1	375-2649	1	RAIL GP-FUEL						
		1	375-6988	1	SENSOR (FUEL RAIL PRESSURE)						
		1	398-6226	1	VALVE (FUEL RAIL PRESSURE)						
	8	1	393-2034	1	LINE AS-FUEL						
	9	1	393-2035	1	LINE AS-FUEL						
Y	10	1	394-0525	1	LINES GP-FUEL INJECTION						223

M - METRIC PART

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03380177

ELECTRICAL AND STARTING SYSTEM

235-7133 ALTERNATOR GP-CHARGING*R

24-VOLT, 80-AMPERE

PART OF 440-6724 ALTERNATOR GP-CHARGING

SMCS-1405

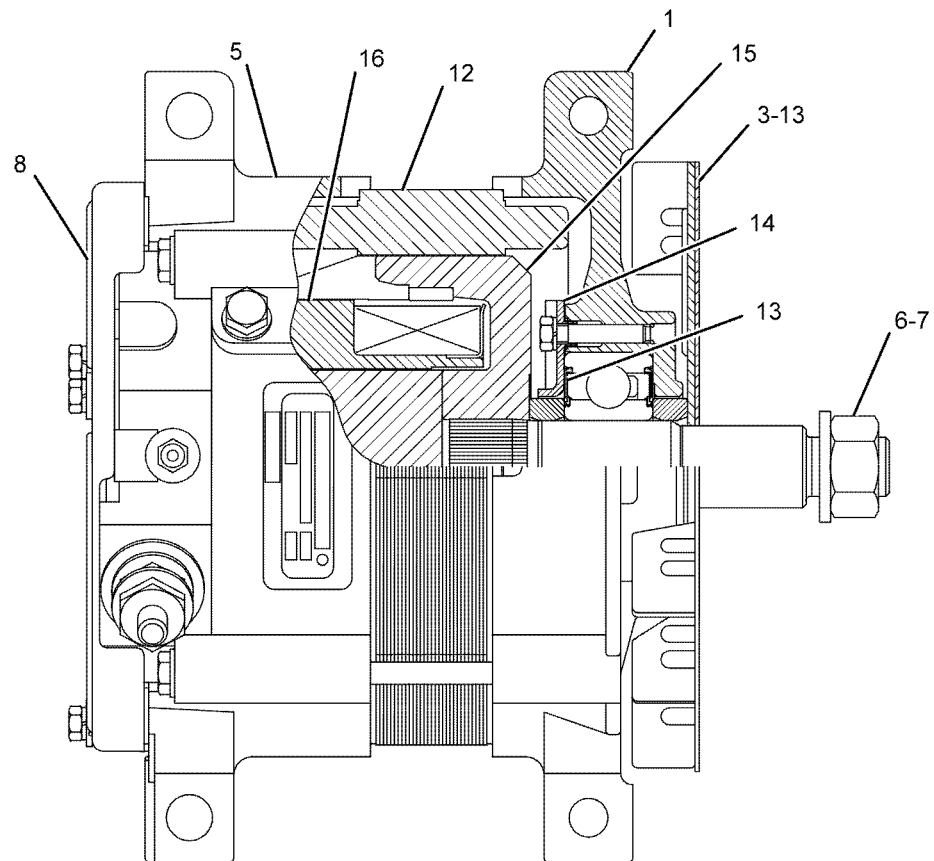
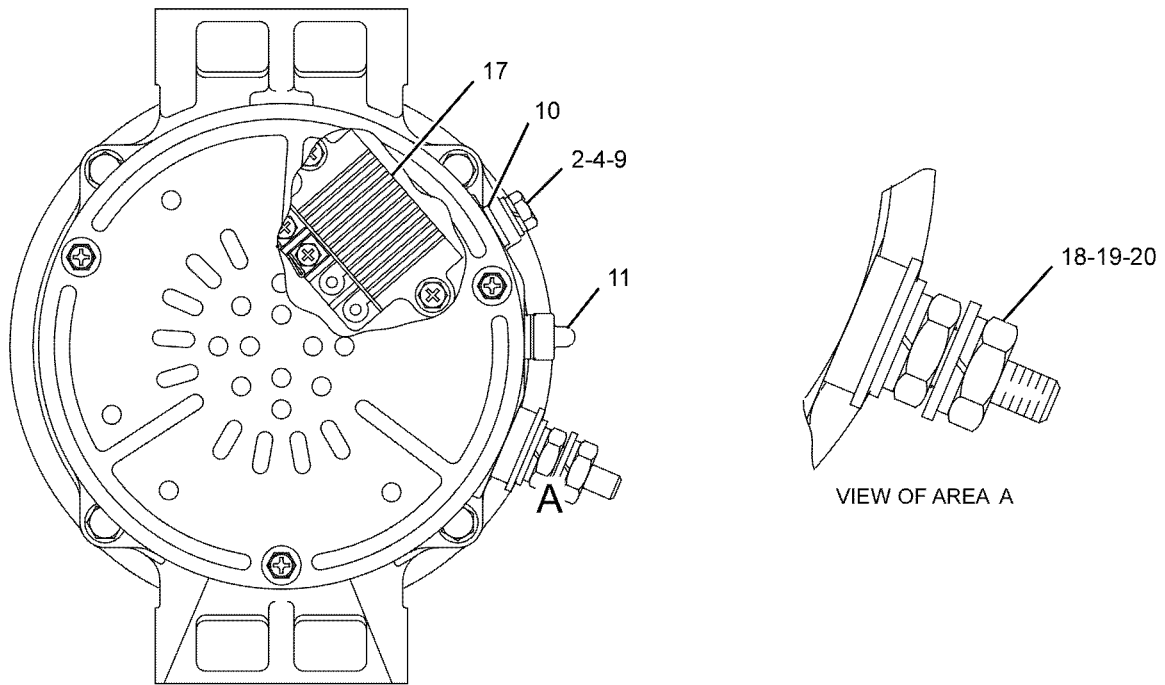
i05785783

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	228-9656	1	FRAME AS-DRIVE END						
	2	1	5S-7349	1	BOLT (1/4-20X0.5-IN)						
	3	1	185-2639	1	FAN AS						
	4	1	1H-3244	1	LOCKWASHER						
	5	1	228-9655	1	FRAME AS-ALTERNATOR						
	6	1	2K-4821	1	LOCKNUT (5/8-18-THD)						
	7	1	5P-8247	1	WASHER-HARD (17X32X3.5-MM THK)						
	8	1	228-9657	1	COVER AS						
	9	1	8T-4205	1	WASHER-HARD (7.2X14.5X2-MM THK)						
	10	1	185-2647	1	GROMMET						
	11	1	9L-6770	1	CAP-DUST						
	12	1	423-2775	1	STATOR AS (24-VOLT, 95-AMPERE)						
	13	1	185-2638	2	COLLAR						
	14	1	185-2654	1	PLATE						
	15	1	185-2650	1	ROTOR AS						
	16	1	185-2644	1	COIL AS						
	17	1	185-2648	1	REGULATOR AS-VOLTAGE (24-VOLT) (ALTERNATOR)						
	18	1	6V-8189	1	NUT (5/16-18-THD)						
	19	1	8T-4224	1	WASHER-HARD (8.8X16X2-MM THK)						
	20	1	3F-9556	1	LOCKWASHER						
					AVAILABLE REPAIR KIT(S):						
			185-2655	1	KIT-BEARING (ALTERNATOR)						
					(INCLUDES 3 BEARINGS)						
			185-2658	1	KIT-HARDWARE (ALTERNATOR AIR)						
					(INCLUDES BOLTS)						
			199-7891	1	KIT-TERMINAL (ALTERNATOR AIR)						
					(INCLUDES INSULATORS, WASHERS, NUT & STEP NUT)						
			199-8436	1	KIT-TERMINAL (ALTERNATOR AIR)						
					(INCLUDES HOLDER AS, PLATE, INSULATOR, PIN, BOLT, GROMMET,& NUT)						

ELECTRICAL AND STARTING SYSTEM

235-7133 ALTERNATOR GP-CHARGING (contd.)

i05785783



GRAPHIC #1

<END>

g01102532

ELECTRICAL AND STARTING SYSTEM

377-0720 ALTERNATOR GP-CHARGING-12-VOLT, 100-AMPERE

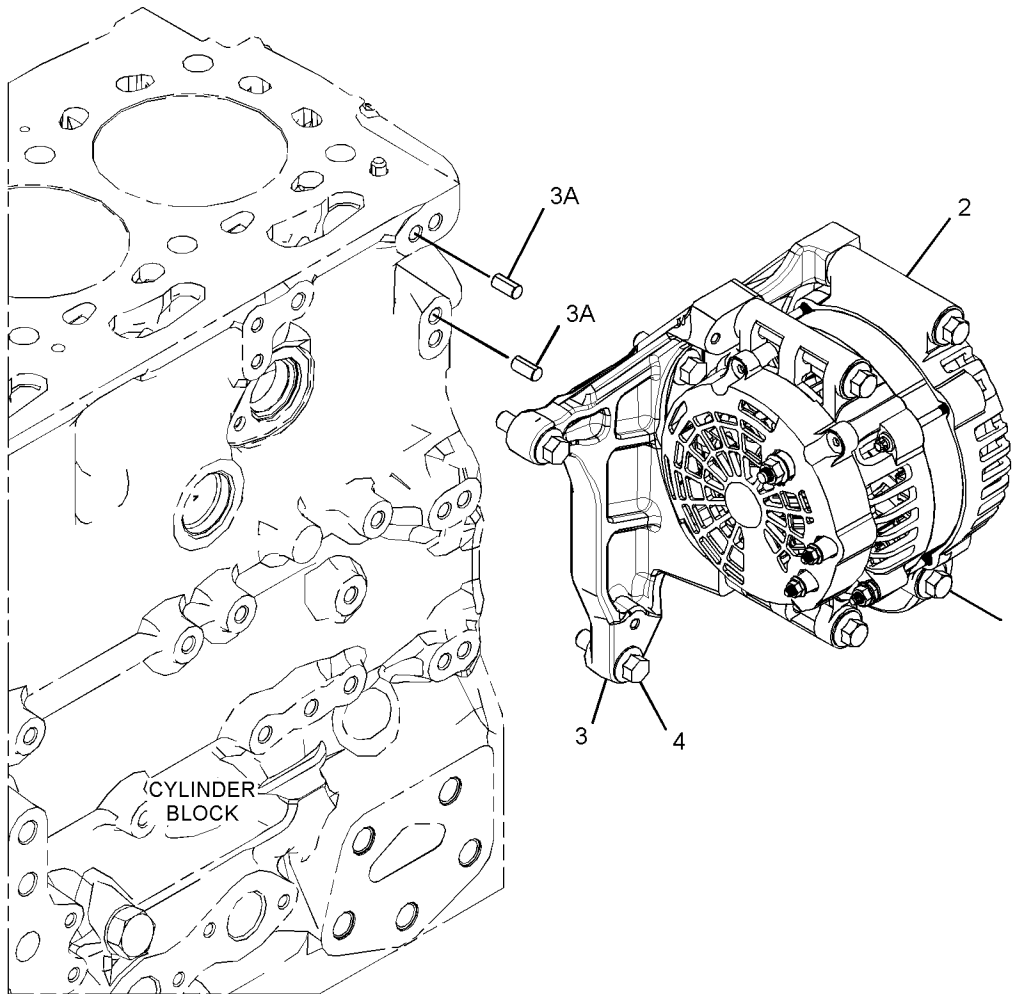
SMCS-1405

i05859653

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	164-7468	4	BOLT (M10X1.5X95-MM)						
R	2	1	321-8902	1	ALTERNATOR (12-VOLT, 100-AMPERE)						
	3	1	321-8952	1	BRACKET AS						
	3A	1	161-9820	2	PIN						
M	4	1	111-0859	4	BOLT (M10X1.5X35-MM)						

M - METRIC PART

R - REMFG PART MAY BE AVAILABLE



GRAPHIC #1

<END>

g02416156

ELECTRICAL AND STARTING SYSTEM

377-0721 ALTERNATOR GP-CHARGING-12-VOLT, 80-AMPERE

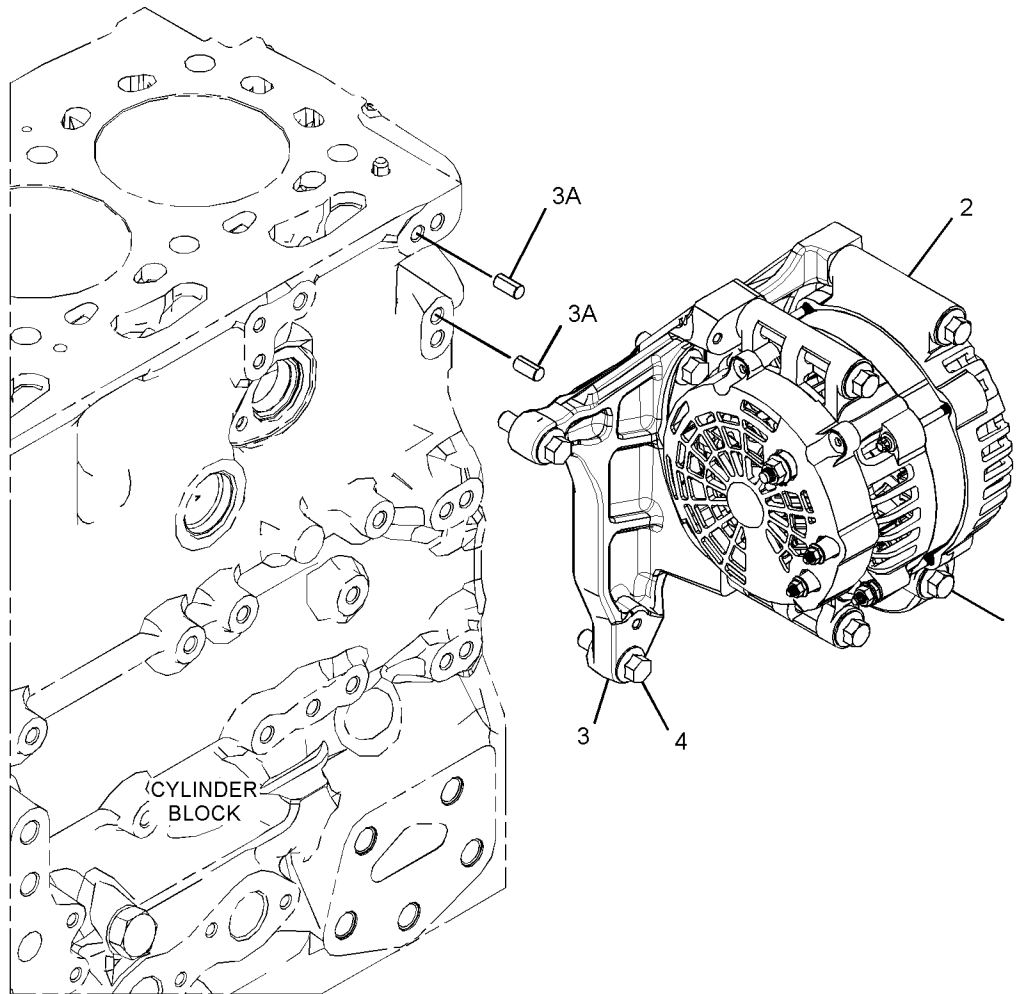
SMCS-1405

i05723714

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	164-7468	4	BOLT (M10X1.5X95-MM)						
R	2	1	321-8932	1	ALTERNATOR (24-VOLT, 80-AMPERE)						
	3	1	321-8952	1	BRACKET AS						
	3A	1	161-9820	2	PIN						
M	4	1	111-0859	4	BOLT (M10X1.5X35-MM)						

M - METRIC PART

R - REMFG PART MAY BE AVAILABLE



GRAPHIC #1

<END>

g02416156

ELECTRICAL AND STARTING SYSTEM

385-8001 ALTERNATOR GP-CHARGING

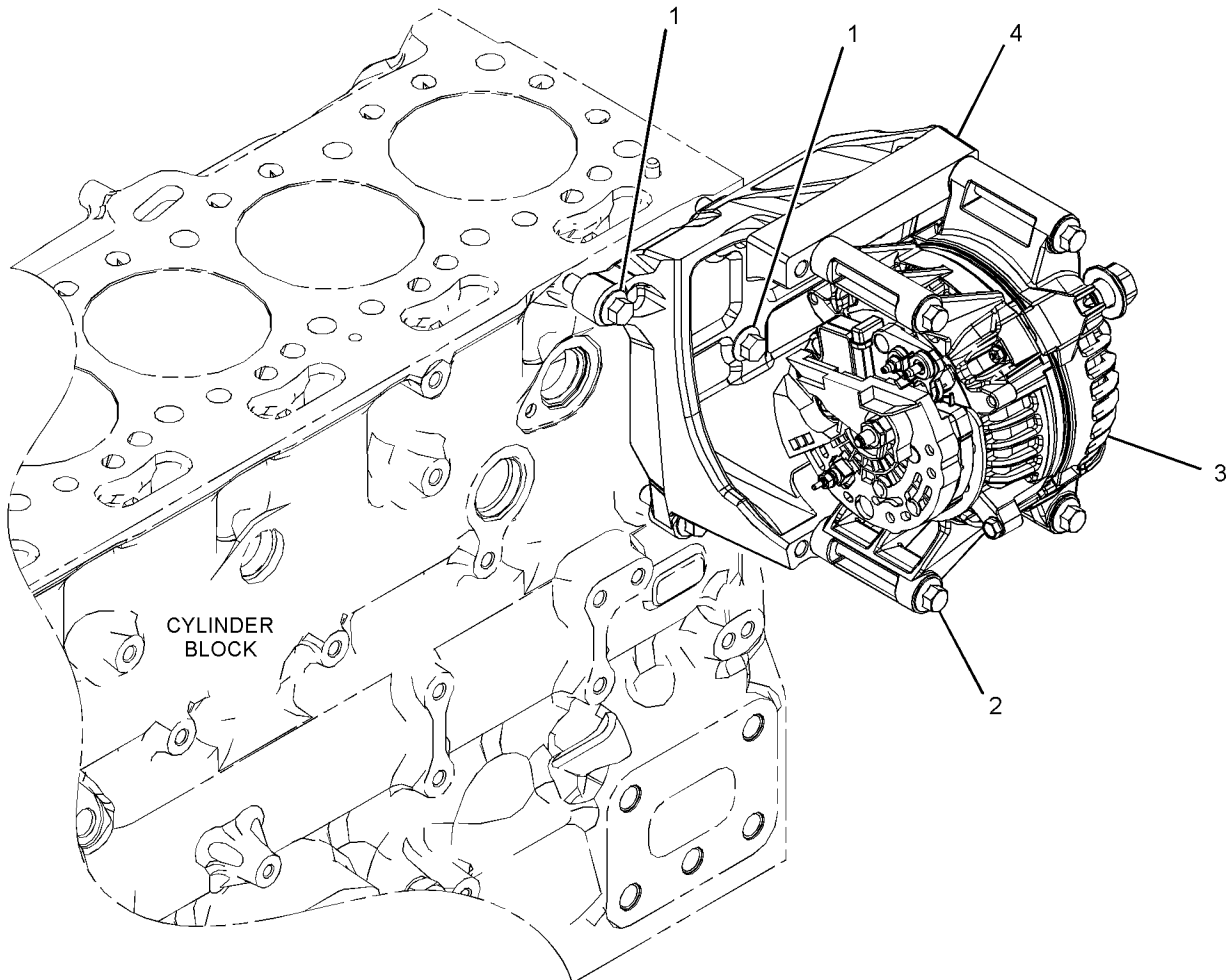
24-VOLTS, 115-AMPERES

SMCS-1405

i05584320

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	111-0859	4	BOLT (M10X1.5X35-MM)						
	2	1	164-7468	4	BOLT (M10X1.5X95-MM)						
R	3	1	344-5081	1	ALTERNATOR GP-CHARGING						
	4	1	394-4451	1	BRACKET AS						
		1	161-9820	2	PIN						

R - REMFG PART MAY BE AVAILABLE



GRAPHIC #1

<END>

g03380061

ELECTRICAL AND STARTING SYSTEM

392 -2023 ALTERNATOR GP-CHARGING 12 VOLT. UNITY LRC

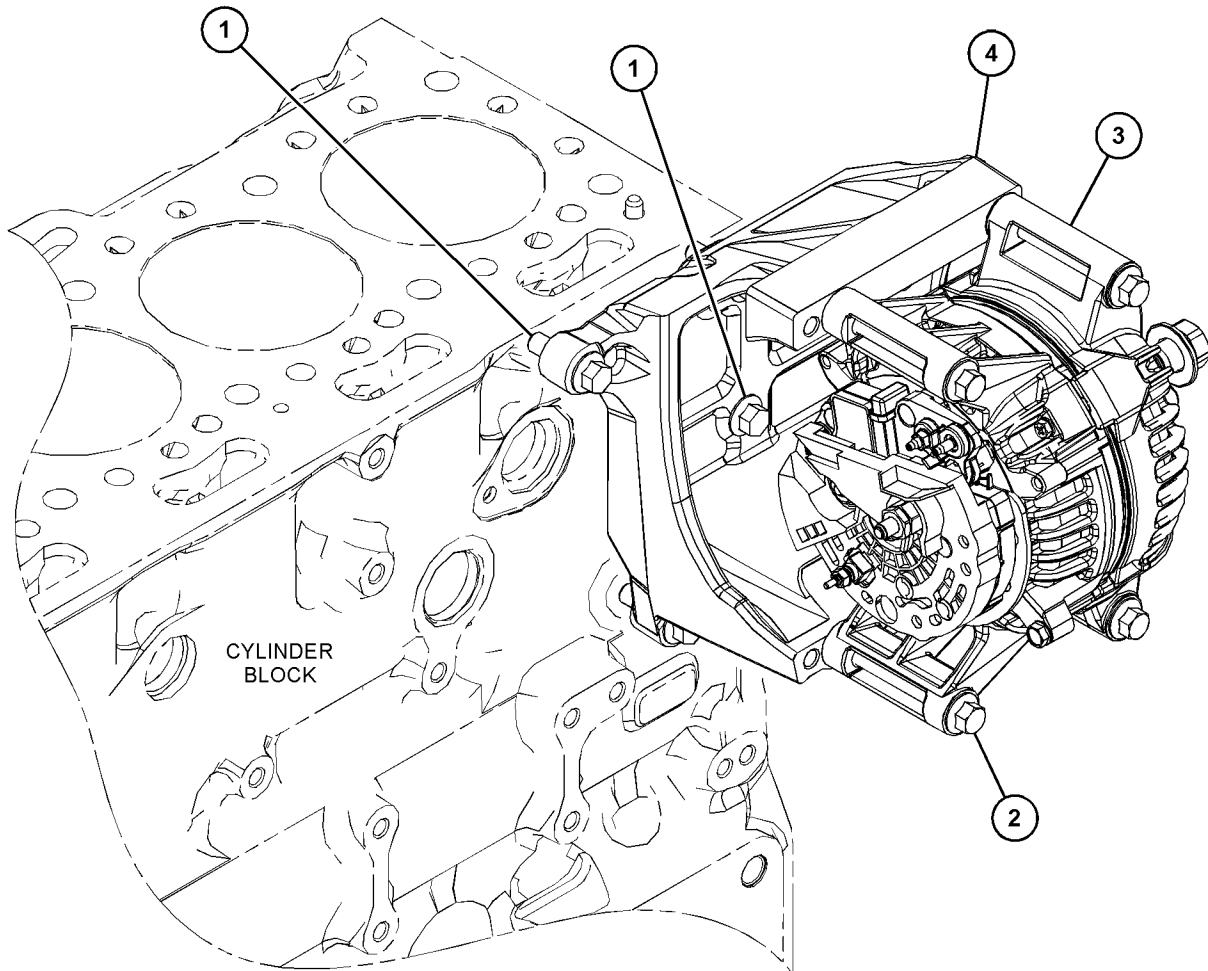
SMCS-1405

i05726589

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	111-0859	4	BOLT (M10X1.5X35-MM)						
	2	1	164-7468	4	BOLT (M10X1.5X95-MM)						
R	3	1	346-6147	1	ALTERNATOR GP-CHARGING						
	4	1	394-4451	1	BRACKET AS						
		1	161-9820	2	PIN						

M - METRIC PART

R - REMFG PART MAY BE AVAILABLE



GRAPHIC #1

<END>

g03664932

ELECTRICAL AND STARTING SYSTEM

440-6724 ALTERNATOR GP-CHARGING

24 VOLT, 80 AMPERE. BRUSHLESS

SMCS-1405

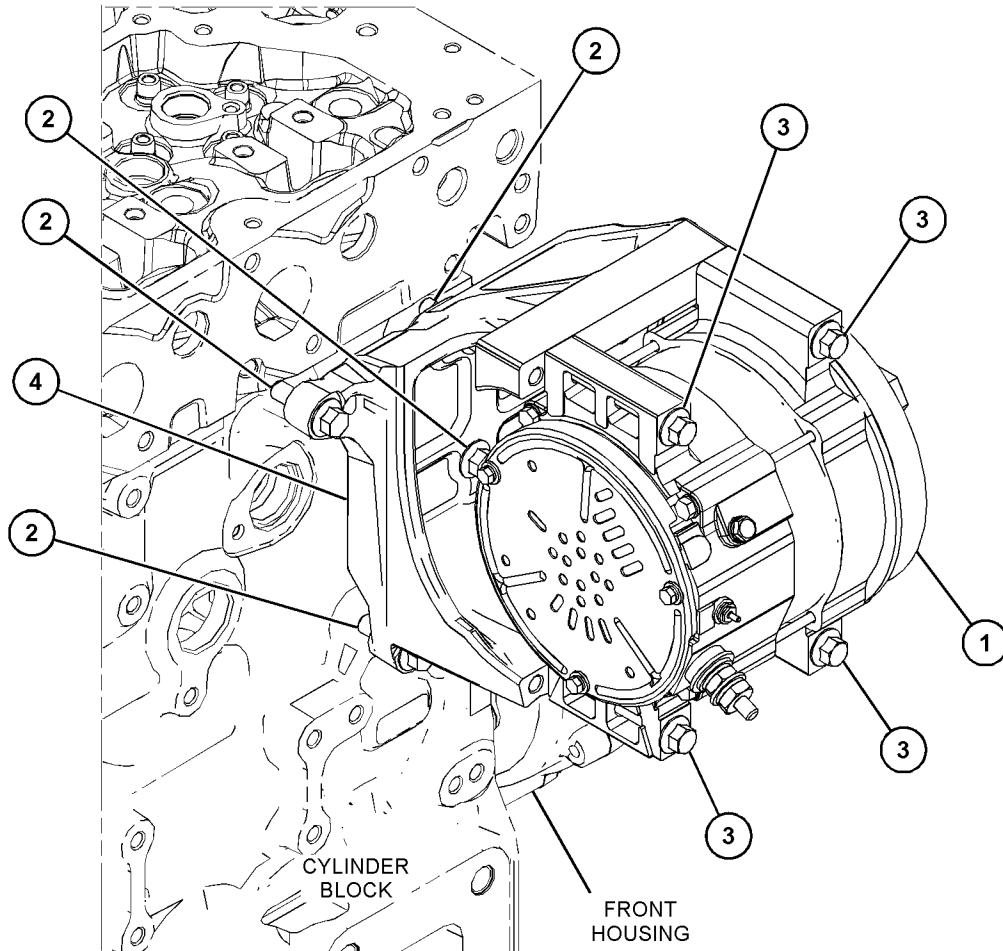
i05785747

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
YR	1	1	235-7133	1	ALTERNATOR GP-CHARGING (24-VOLT, 80-AMPERE)						228
M	2	1	111-0859	4	BOLT (M10X1.5X35-MM)						
	3	1	164-7468	4	BOLT (M10X1.5X95-MM)						
	4	1	394-4451	1	BRACKET AS						
		1	161-9820	2	PIN						

M - METRIC PART

R - REMFG PART MAY BE AVAILABLE

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03688540

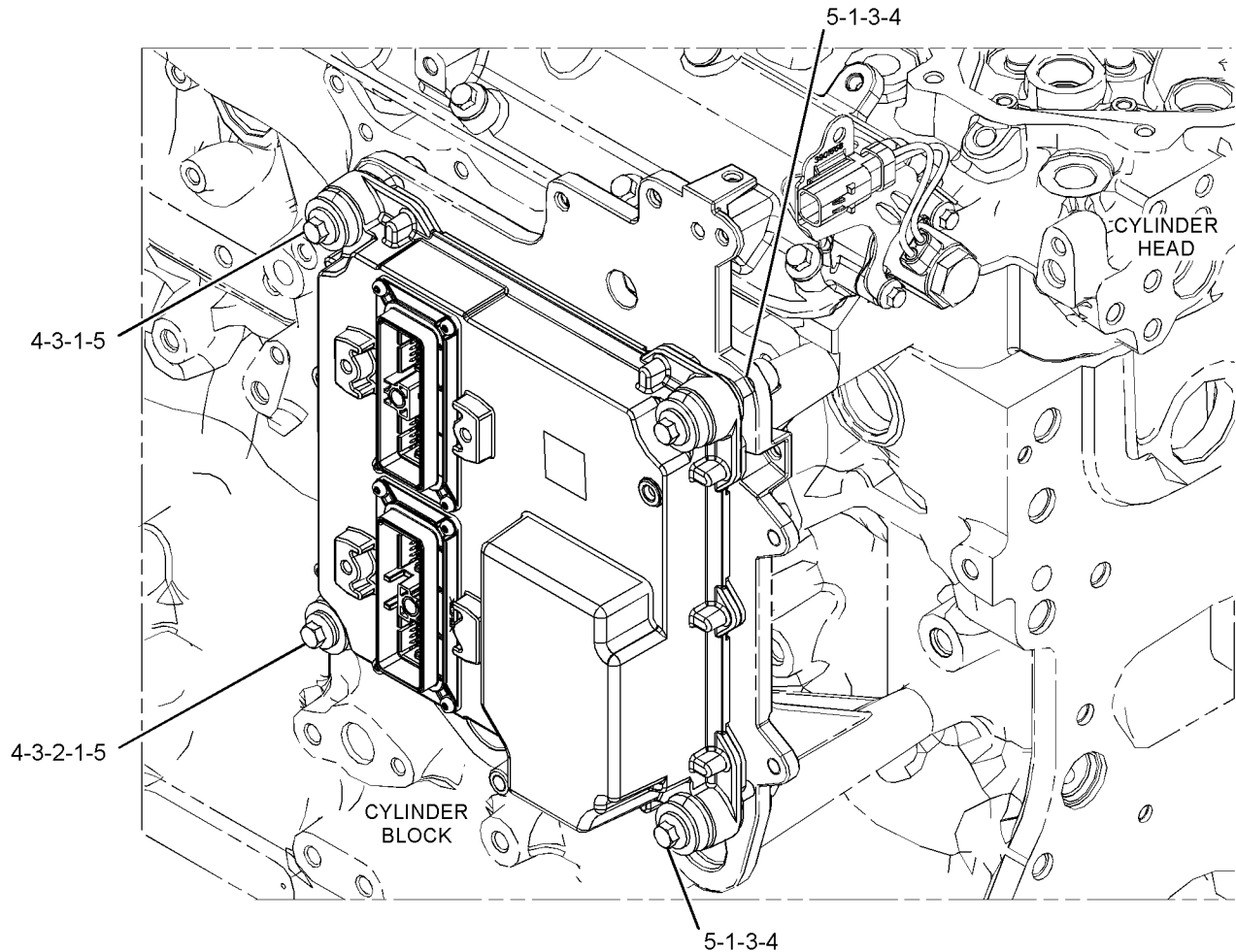
ELECTRICAL AND STARTING SYSTEM

371-2536 CONTROL GP-ELECTRONIC

SMCS-1917, 1924

i05723846

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	155-0576	8	MOUNT - ISOLATION						
	2	1	7W-2632	1	WASHER (8.5X16.8X1.6-MM THK)						
	3	1	217-0099	4	SPACER (8.2X25X2-MM THK)						
	4	1	278-5203	4	SPACER						
	5	1	6I-0456	4	BOLT (M8X1.25X45-MM)						



GRAPHIC #1

<END>

g03520918

ELECTRICAL AND STARTING SYSTEM

385-5997 HARNESS AS-ENGINE

PART OF 395-0113 WIRING GP-ENGINE

SMCS-1408

i05898405

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE	
			1	2	3	4	5	6 (PRODUCT LEVEL)		
E	377-6932	1	COVER							
	292-2896		CONDUIT (45-CM)							
	155-2271	3	KIT-CONNECTING PLUG (4-PIN)							
			(INCLUDES PLUG AS, WEDGE & INTERFACE SEAL)							
	245-1044	2	LOCK-CONNECTOR							
	316-9351	7	MOUNTING-CABLE TIE							
	230-4011	2	PLUG AS-CONNECTOR (2-PIN)							
			(EACH INCLUDES)							
	264-7029	1	SEAL-CONNECTOR							
	238-8245	1	PLUG AS-CONNECTOR (2-PIN)							
	264-7029	1	SEAL-CONNECTOR							
	238-8247	2	PLUG AS-CONNECTOR (2-PIN)							
			(EACH INCLUDES)							
	264-7029	1	SEAL-CONNECTOR							
	245-1043	1	PLUG AS-CONNECTOR (64-PIN)							
	M	267-7207	1	BOLT-SPECIAL						
		281-8804	2	PLUG AS-CONNECTOR (3-PIN)						
				(EACH INCLUDES)						
		264-7030	1	SEAL-CONNECTOR						
		245-1048	33	PLUG-CONNECTOR						
185-1860		5	SEAL-WIRE							
267-9572		31	SOCKET-CONNECTION (18-GA)							
9X-3402		16	SOCKET-CONNECTOR (16-GA TO 18-GA)							
			-OR-							
126-1768		16	SOCKET-CONNECTOR (14-GA TO 16-GA)							
	217-9039	6	STRAP-CABLE							
	356-1219	1	STRAP-CABLE							
	206-1345	14	STRAP-CABLE							
	E	125-7874		TUBE-HEAT SHRINK (5.72-MM DIA) (10-CM)						
		194-5226	12	WIRE AS (16-GA)						
			-OR-							
		194-5227	12	WIRE AS (14-GA)						
	E - ORDER BY THE CENTIMETER									
	M - METRIC PART									

ELECTRICAL AND STARTING SYSTEM

416-5399 HARNESS AS-SENSOR

UNITY LCR C7.1 T3

PART OF 424-5516 WIRING GP-ENGINE

SMCS-1408

i05873533

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	8C-6354	1	CAP-RECEPTACLE (ET CONNECTOR)						
	155-2271	6	KIT-CONNECTING PLUG (4-PIN) (EACH CONNECTOR KIT INCLUDES CONNECTOR AS & WEDGE)						
	245-1044	2	LOCK-CONNECTOR						
	316-9351	7	MOUNTING-CABLE TIE						
	230-4011	2	PLUG AS-CONNECTOR (2-PIN) (EACH INCLUDES)						
	455-0704	1	SEAL-CONNECTOR						
	238-8245	1	PLUG AS-CONNECTOR (2-PIN)						
	455-0704	1	SEAL-CONNECTOR						
	238-8247	2	PLUG AS-CONNECTOR (2-PIN) (EACH INCLUDES)						
	455-0704	1	SEAL-CONNECTOR						
	245-1043	1	PLUG AS-CONNECTOR (64-PIN)						
M	267-7207	1	BOLT-SPECIAL						
	281-8804	2	PLUG AS-CONNECTOR (3-PIN) (EACH INCLUDES)						
	455-0705	1	SEAL-CONNECTOR						
	245-1048	26	PLUG-CONNECTOR						
	8T-8737	2	PLUG-SEAL						
	185-1860	5	SEAL-WIRE						
	267-9572	38	SOCKET-CONNECTION (18-GA)						
	9X-3401	7	PIN-CONNECTOR (16-GA TO 18-GA) -OR-						
	126-1767	7	PIN-CONNECTOR (14-GA TO 16-GA)						
	9X-3402	16	SOCKET-CONNECTOR (16-GA TO 18-GA) -OR-						
	126-1768	16	SOCKET-CONNECTOR (14-GA TO 16-GA)						
	217-9039	7	STRAP-CABLE						
	206-1345	14	STRAP-CABLE						
E	125-7874		TUBE-HEAT SHRINK (5.72-MM DIA) (10-CM)						
	194-5226	12	WIRE AS (16-GA) -OR-						
	194-5227	12	WIRE AS (14-GA)						
E - ORDER BY THE CENTIMETER									
M - METRIC PART									

375-8407 HARNESS AS-WIRING

PART OF 395-0113, 424-5516 WIRING GP-ENGINE

SMCS-1408

i05716574

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	102-8804	1	KIT-RECEPTACLE (4-PIN)						
			(INCLUDES RECEPTACLE AS & WEDGE)						
	113-4630	1	RECEPTACLE AS-CONNECTOR (4-PIN)						
	9X-3401	4	PIN-CONNECTOR (16-GA TO 18-GA)						
			-OR-						
	126-1767	4	PIN-CONNECTOR (14-GA TO 16-GA)						
	332-7865	1	TIE-CABLE						
			<END>						

ELECTRICAL AND STARTING SYSTEM

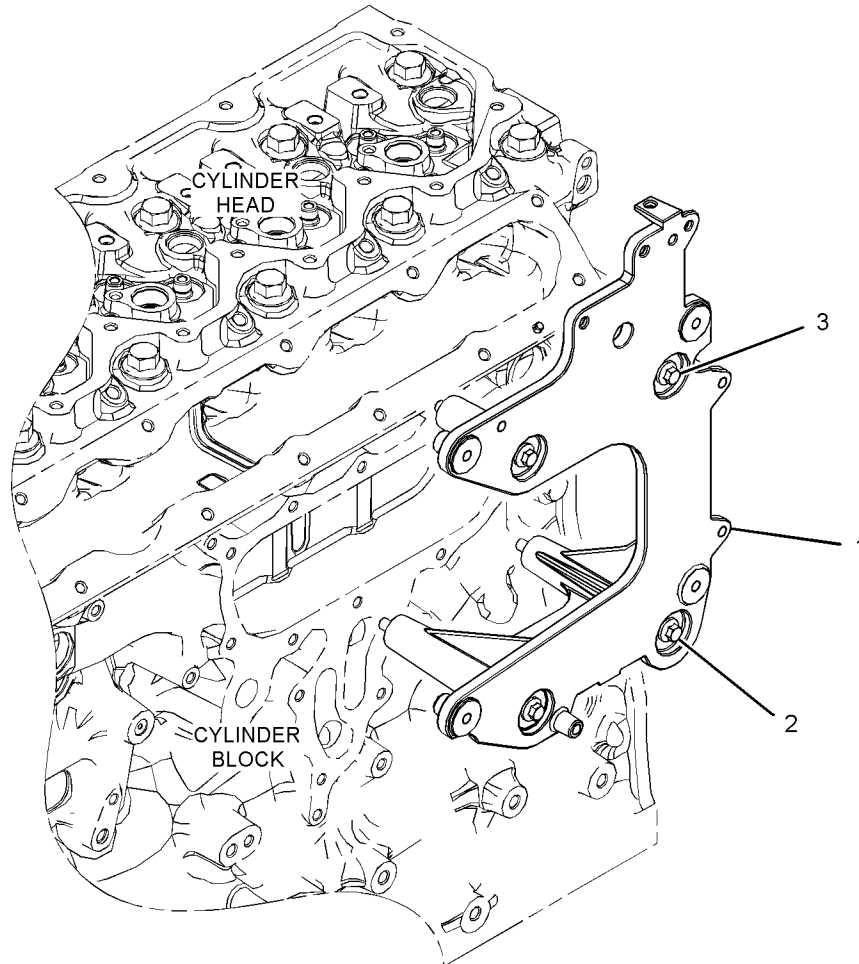
395-0112 MOUNTING GP-ELECTRONIC CONTROL

SMCS-1901

i05723843

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	446-1268	1	BRACKET AS						
M	2	1	6I-0292	2	BOLT (M8X1.25X140-MM)						
	3	1	6I-0293	2	BOLT (M8X1.25X80-MM)						

M - METRIC PART



GRAPHIC #1

<END>

g03378971

ELECTRICAL AND STARTING SYSTEM

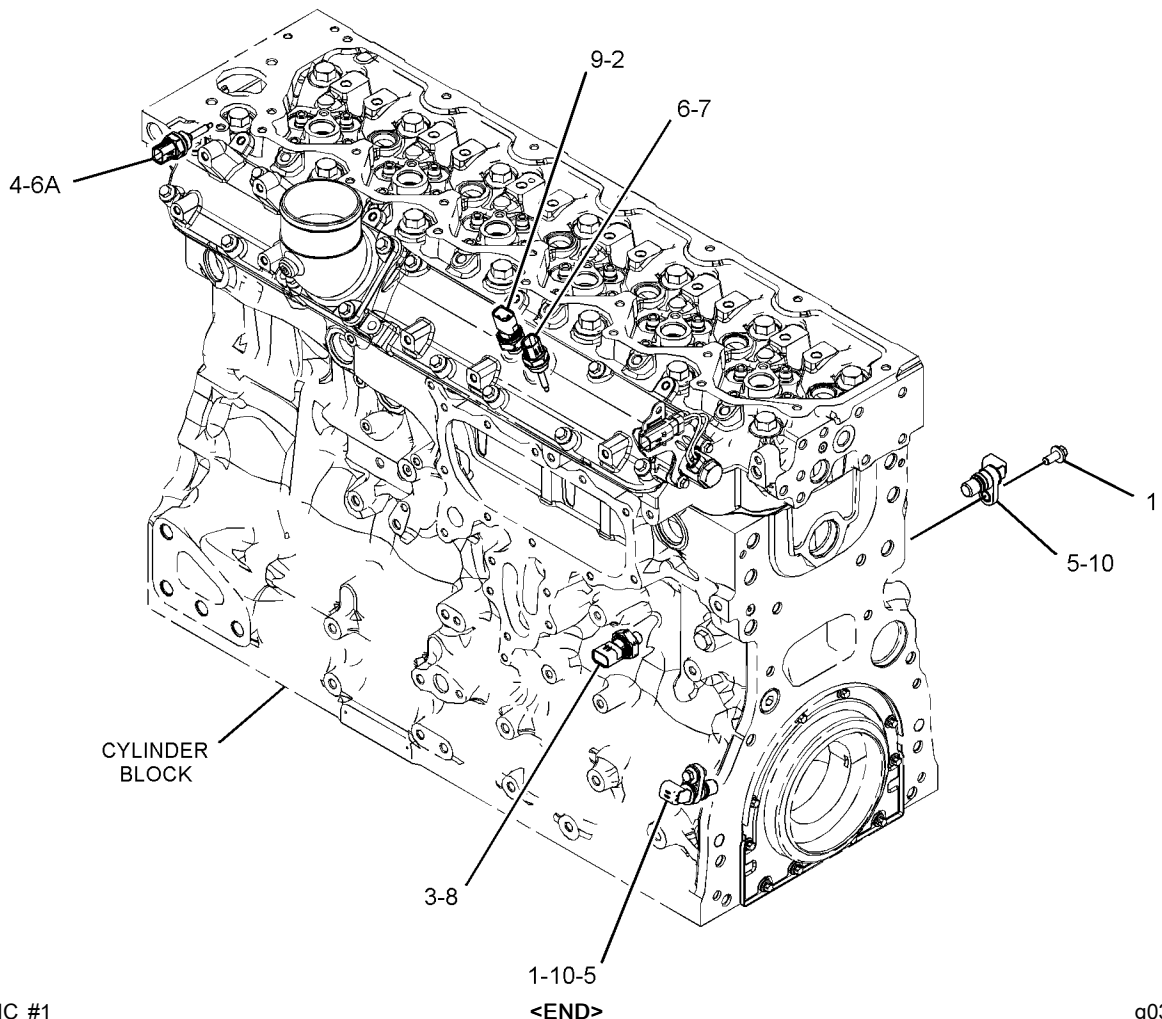
395-0110 SENSOR GP-ENGINE

SMCS-1000, 1050, 1718, 1906, 1907, 1912, 1917, 1923,
1924, 1925, 1928, 1929, 7400, 7422

i05723844

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	124-3815	2	BOLT (M8X1.25X16-MM)						
	2	1	199-9252	1	SEAL-O-RING						
	3	1	199-9267	1	SEAL-O-RING						
	4	1	199-9751	1	SEAL-O-RING						
	5	1	238-0120	2	SENSOR GP-SPEED (ENGINE)						
	6	1	256-6454	1	SENSOR-TEMPERATURE (AIR INLET MANIFOLD)						
	6A	1	256-6454	1	SENSOR-TEMPERATURE (COOLANT)						
	7	1	276-5603	1	SEAL-O-RING						
	8	1	320-3060	1	SENSOR GP-PRESSURE (ENGINE OIL)						
	9	1	320-3062	1	SENSOR GP-PRESSURE (INLET MANIFOLD AIR)						
	10	1	228-4947	2	SEAL-O-RING						

M - METRIC PART



GRAPHIC #1

<END>

g03380662

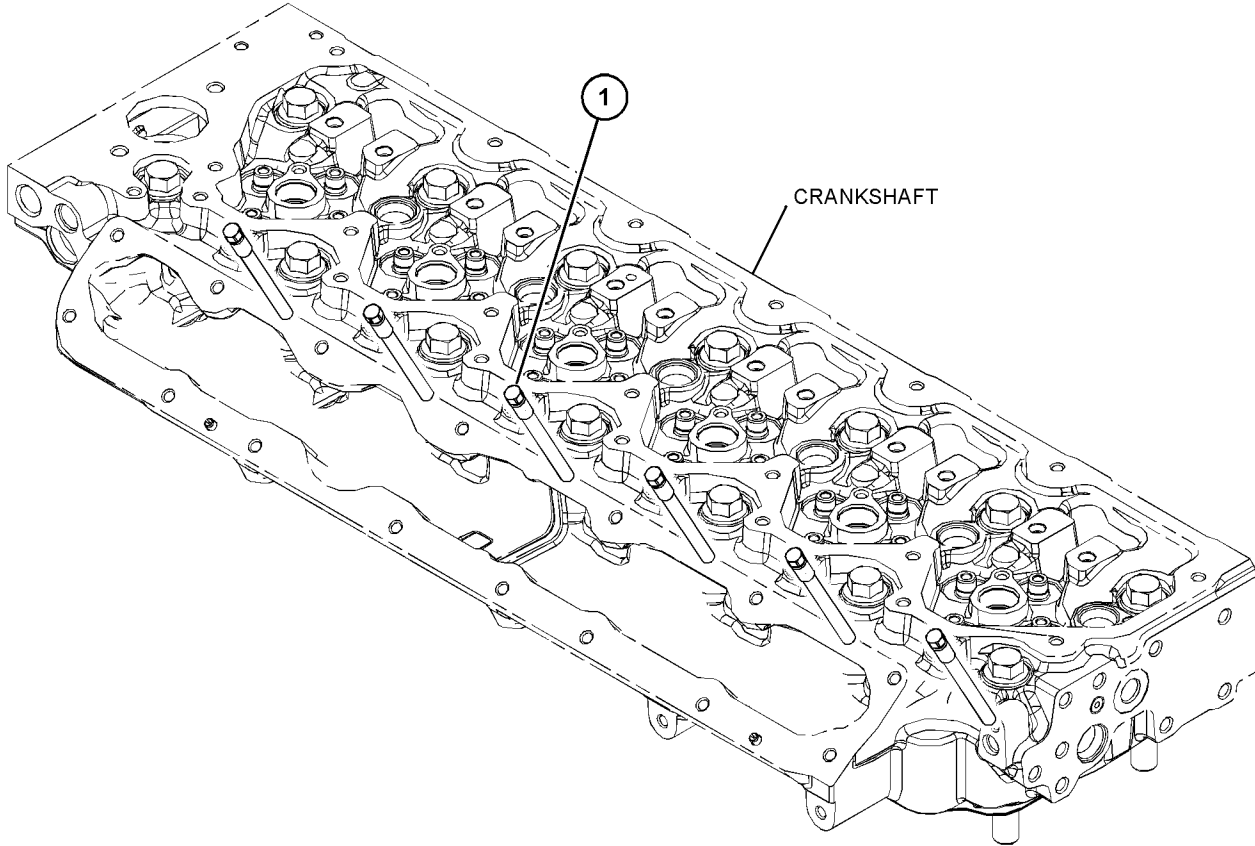
ELECTRICAL AND STARTING SYSTEM

371-2733 STARTING AID GP

SMCS-1090

i05906470

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	299-6953	6	GLOW PLUG						



GRAPHIC #1

<END>

g03707568

ELECTRICAL AND STARTING SYSTEM

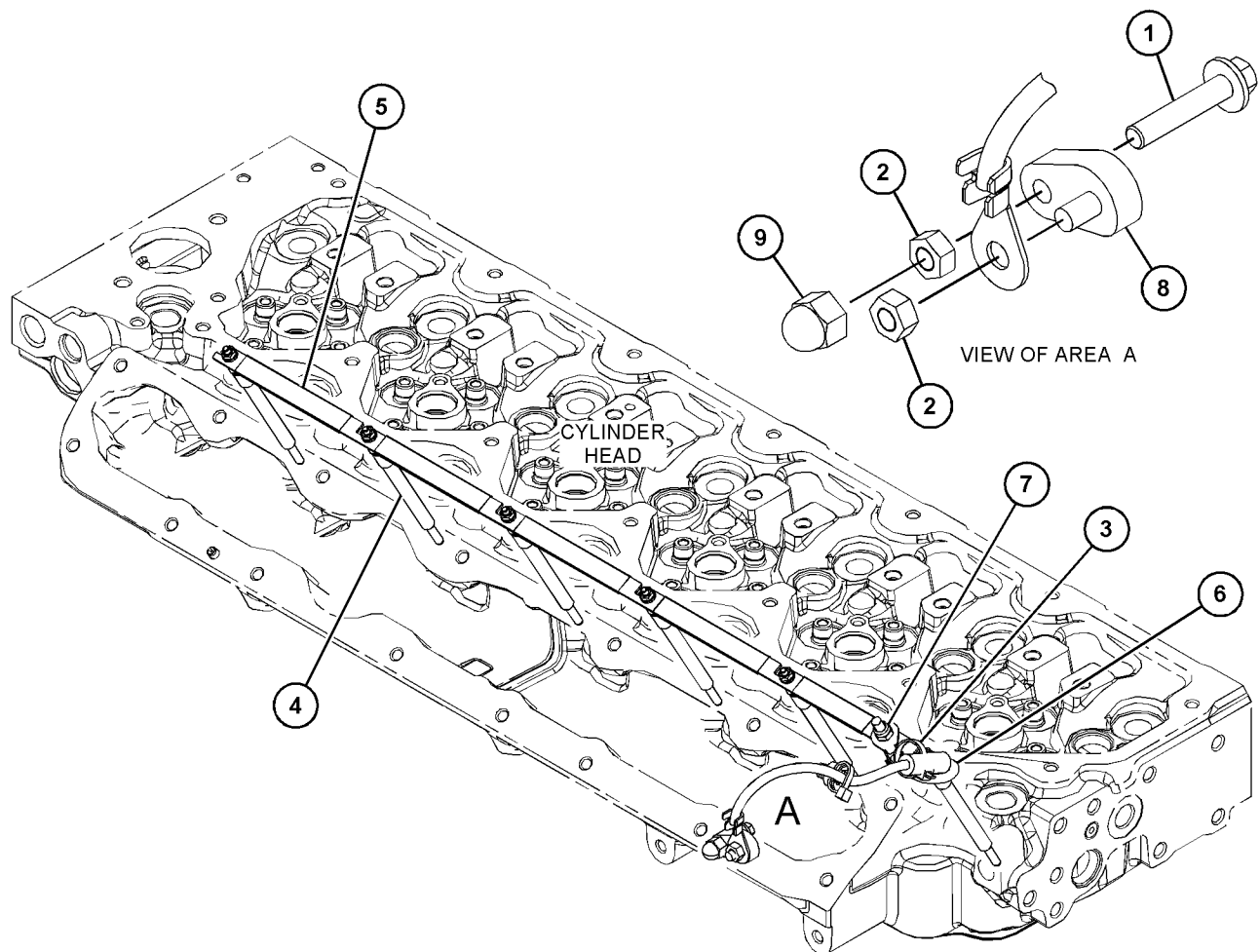
380-9279 STARTING AID GP

SMCS-1090

i05836633

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	112-7704	1	BOLT (M6X1X30-MM)						
M	2	1	5C-2890	2	NUT (M6X1-THD)						
	3	1	217-9039	1	STRAP-CABLE						
	4	1	361-9874	6	GLOW PLUG (12-VOLT)						
	5	1	368-3145	1	BUS BAR AS						
	6	1	384-7567	1	HARNESS AS-STARTING AID						
		1	2L-8050	1	TERMINAL-RING (6-GA, 1/4-IN SCREW)						
		1	2L-8058	1	TERMINAL-RING (8-GA, 1/4-IN SCREW)						
		1	427-9771	1	CLIP						
M	7	1	208-8469	1	LOCKNUT (M6X1-THD)						
	8	1	275-2428	1	INSULATOR						
	9	1	277-4409	1	CAP						

M - METRIC PART



GRAPHIC #1

<END>

g03668269

ELECTRICAL AND STARTING SYSTEM

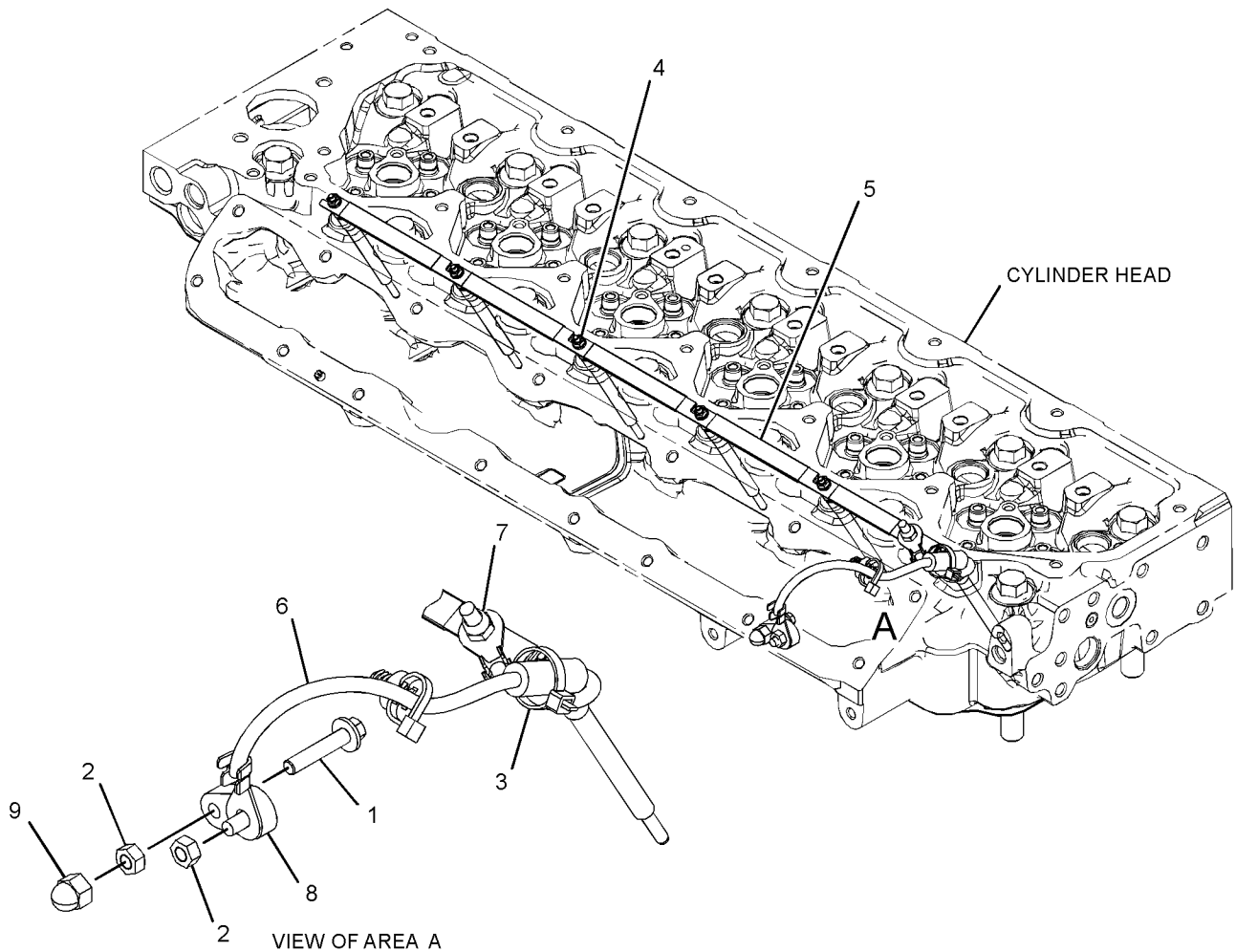
395-0114 STARTING AID GP

SMCS-1090

i05723839

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	112-7704	1	BOLT (M6X1X30-MM)						
M	2	1	5C-2890	2	NUT (M6X1-THD)						
	3	1	217-9039	1	STRAP-CABLE						
	4	1	361-9875	6	GLOW PLUG (24-VOLT)						
	5	1	368-3145	1	BUS BAR AS						
	6	1	384-7567	1	HARNESS AS-STARTING AID						
		1	2L-8050	2	TERMINAL-RING (6-GA, 1/4-IN SCREW)						
					-OR-						
		1	2L-8058	2	TERMINAL-RING (8-GA, 1/4-IN SCREW)						
		1	316-9351	1	MOUNTING-CABLE TIE						
M	7	1	208-8469	1	LOCKNUT (M6X1-THD)						
	8	1	275-2428	1	INSULATOR						
	9	1	277-4409	1	CAP						

M - METRIC PART



GRAPHIC #1

<END>

g03379036

ELECTRICAL AND STARTING SYSTEM

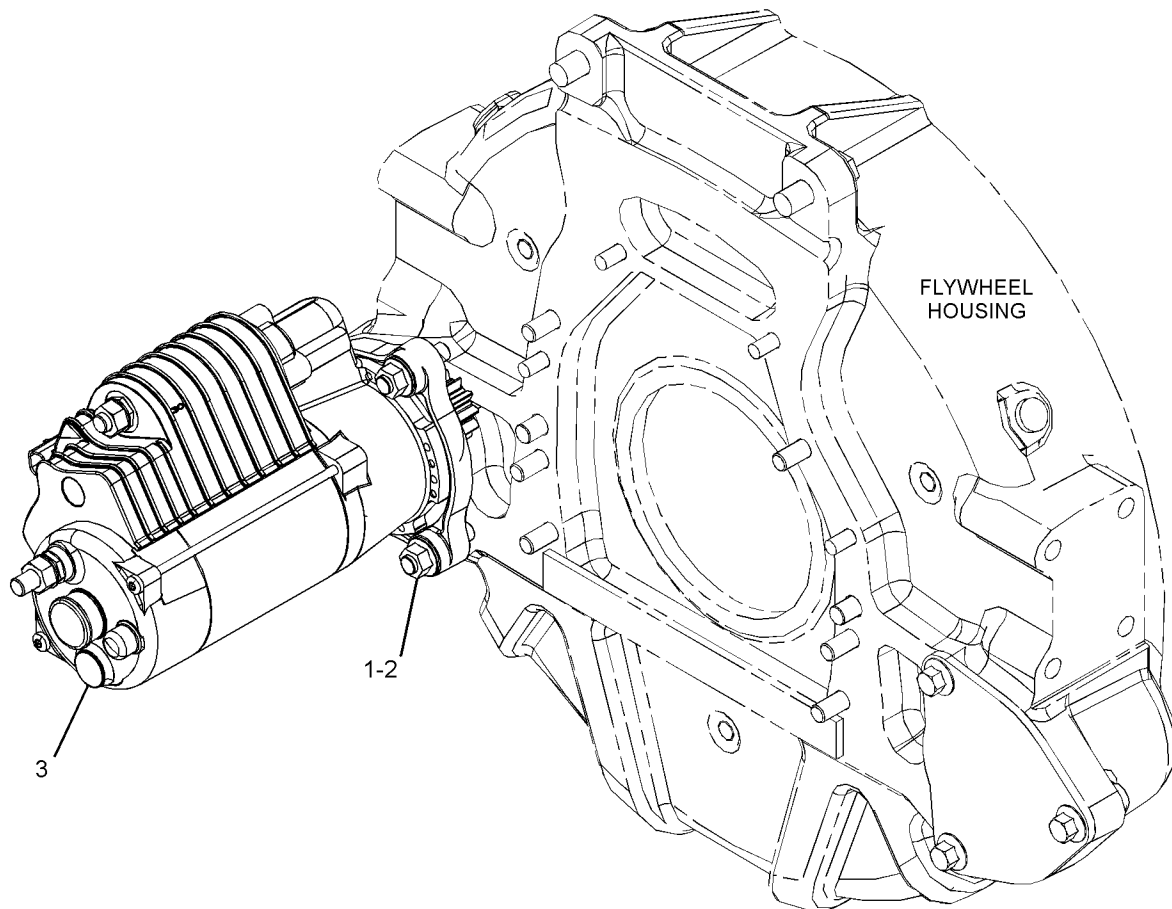
371-2541 STARTING MOTOR GP-ELECTRIC

SMCS-1453

i05712373

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0233	3	NUT (M12X1.75-THD)						
	2	1	183-1343	3	STUD						
	3	1	389-5833	1	STARTING MOTOR GP-ELECTRIC						
		1	230-4012	1	RECEPTACLE AS-CONNECTOR (2-PIN)						
		1	423-9049	1	SEAL-O-RING						

M - METRIC PART



GRAPHIC #1

<END>

g03507593

ELECTRICAL AND STARTING SYSTEM

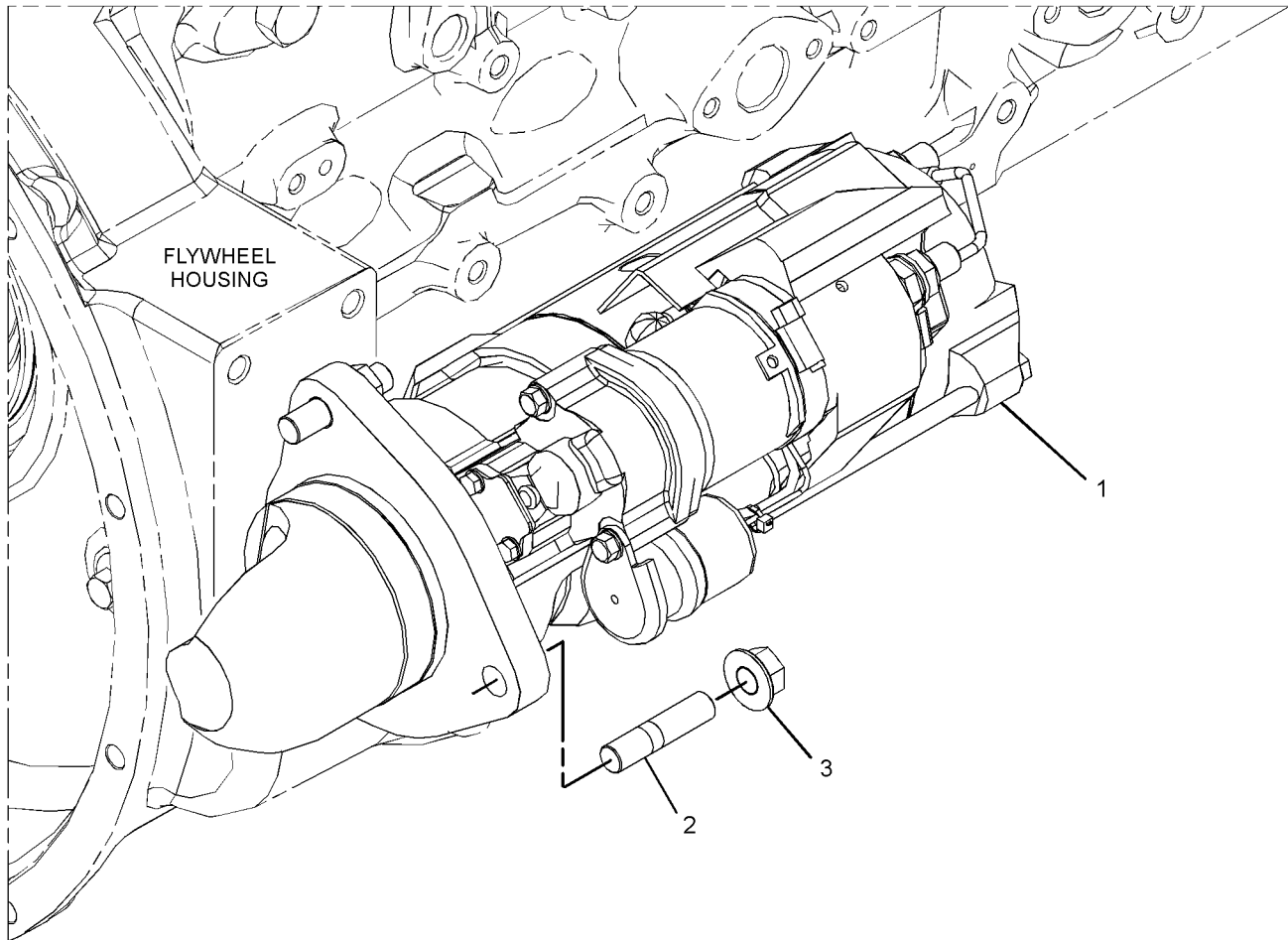
378-0589 STARTING MOTOR GP-ELECTRIC

SMCS-1453

i05859740

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	373-1665	1	MOTOR-STARTING						
	2	1	183-1343	3	STUD						
M	3	1	184-0983	3	NUT-HEX FLANGE (M12X1.75-THD)						

M - METRIC PART



GRAPHIC #1

<END>

g03161616

ELECTRICAL AND STARTING SYSTEM

378-0590 STARTING MOTOR GP-ELECTRIC

SMCS-1453

i05906480

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
M	6I-0233	3	NUT (M12X1.75-THD)						
M	184-0983	1	NUT-HEX FLANGE (M12X1.75-THD)						
	183-1343	3	STUD						
	389-5833	1	STARTING MOTOR GP-ELECTRIC						
M - METRIC PART									
<END>									

ELECTRICAL AND STARTING SYSTEM

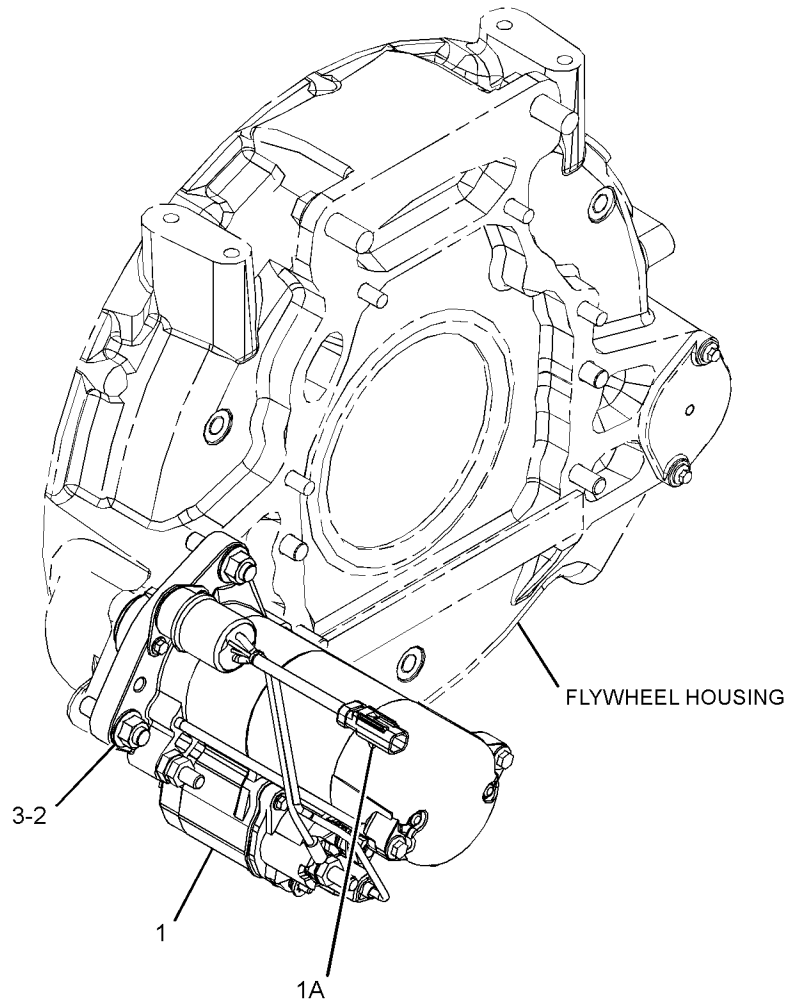
385-8000 STARTING MOTOR GP-ELECTRIC

SMCS-1453

i05582478

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	354-5671	1	STARTING MOTOR GP-ELECTRIC						
	1A	1	230-4012	1	RECEPTACLE AS-CONNECTOR (2-PIN)						
	2	1	183-1343	3	STUD						
M	3	1	6I-0233	3	NUT (M12X1.75-THD)						

M - METRIC PART



GRAPHIC #1

g03317666

ELECTRICAL AND STARTING SYSTEM

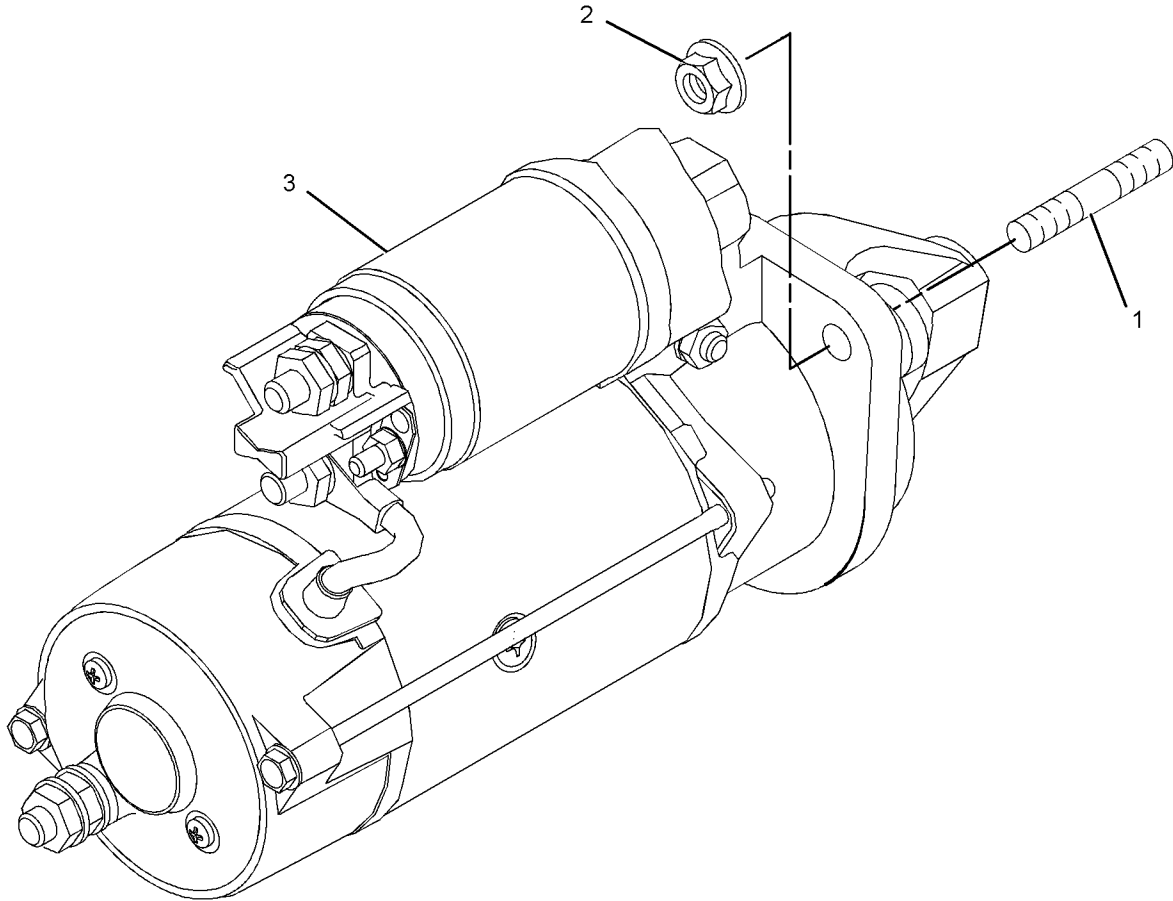
392-2020 STARTING MOTOR GP-ELECTRIC-24-VOLT, 4-KW

SMCS-1453

i05649334

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-4012	3	STUD						
M	2	1	175-7141	1	NUT-HEX FLANGE (M10X1.5-THD)						
	3	1	357-5205	1	MOTOR-STARTING						

M - METRIC PART



GRAPHIC #1

<END>

g01526684

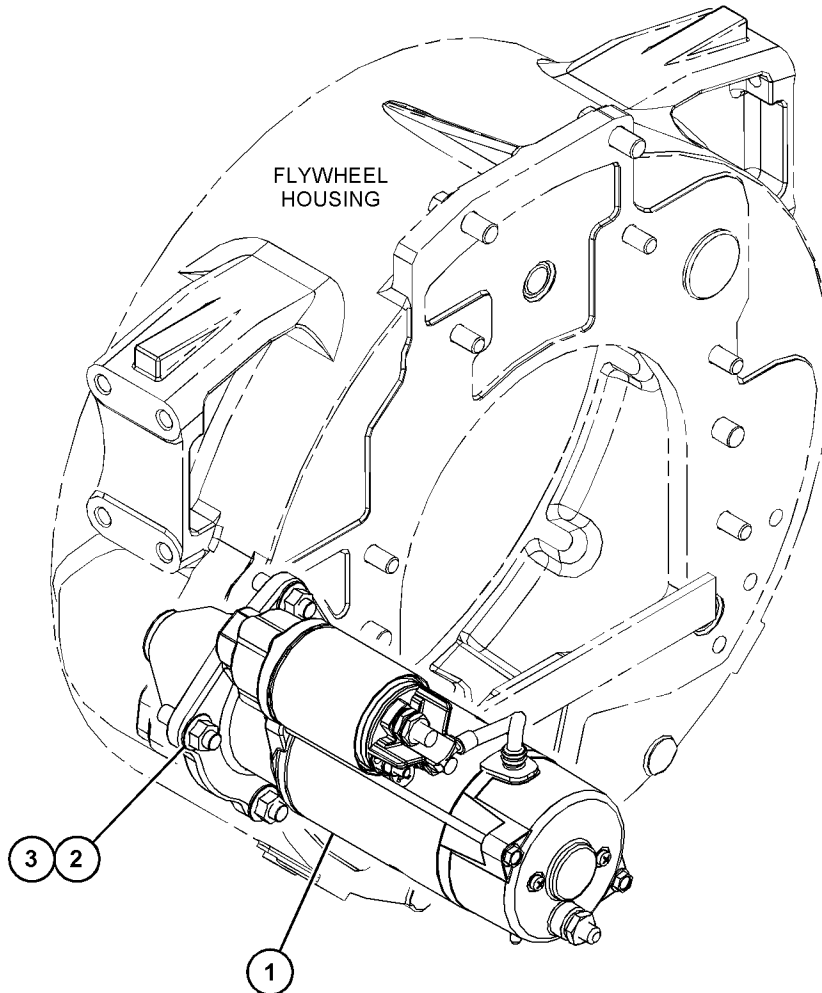
ELECTRICAL AND STARTING SYSTEM

415-4870 STARTING MOTOR GP-ELECTRIC

SMCS-1453

i05726910

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	321-8965	1	STARTING MOTOR-ELECTRIC (12-VOLT, 4-KW)						
	2	1	6I-4012	3	STUD						
M	3	1	175-7141	3	NUT-HEX FLANGE (M10X1.5-THD)						
M - METRIC PART											



GRAPHIC #1

<END>

g03665402

ELECTRICAL AND STARTING SYSTEM

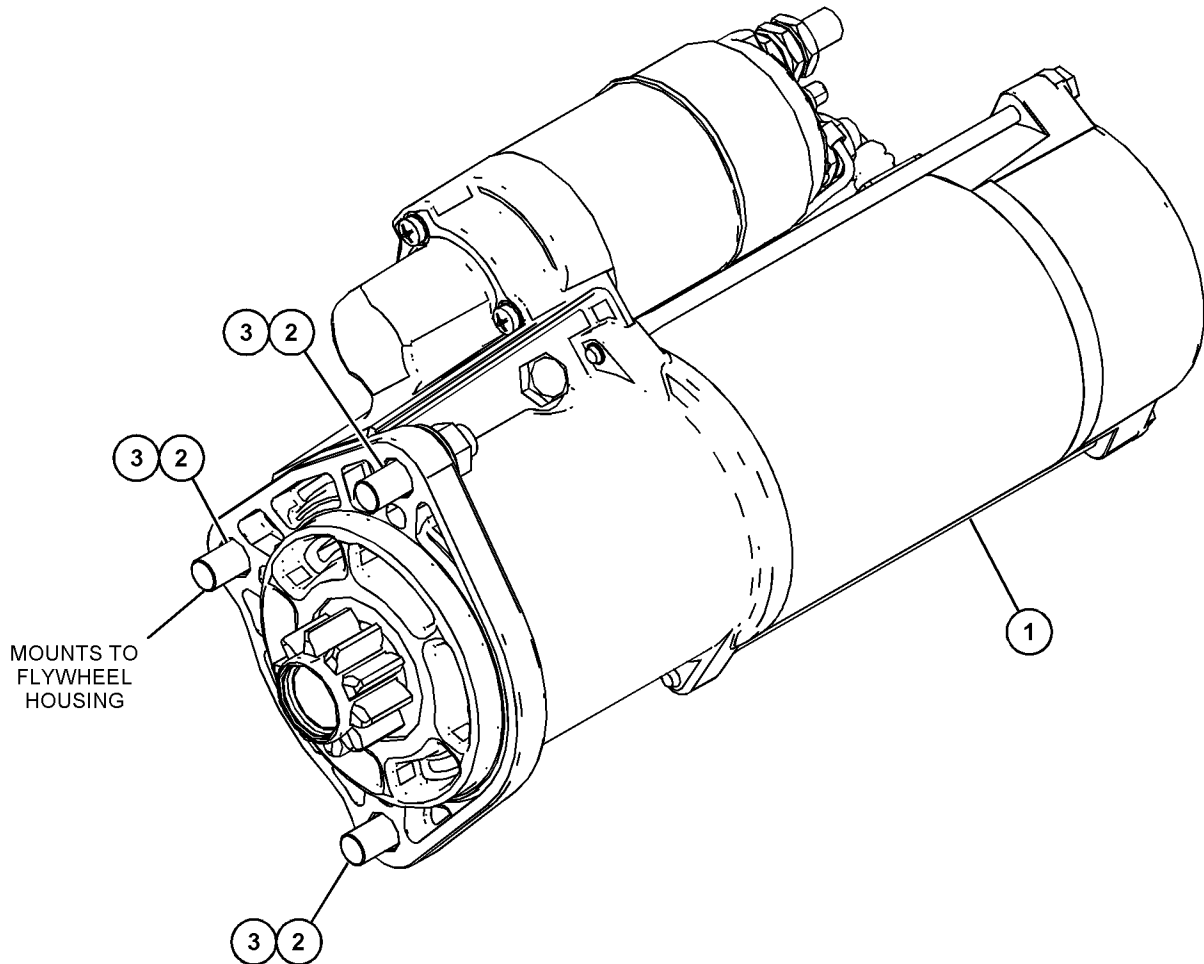
458-3684 STARTING MOTOR GP-ELECTRIC

SMCS-1453

i05836346

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	382-5901	1	MOTOR-STARTING						
M	2	1	6I-0594	3	NUT (M10X1.5-THD)						
	3	1	6I-4012	3	STUD						

M - METRIC PART



g03693254

ELECTRICAL AND STARTING SYSTEM

395-0113 WIRING GP-ENGINE

TYPE 1

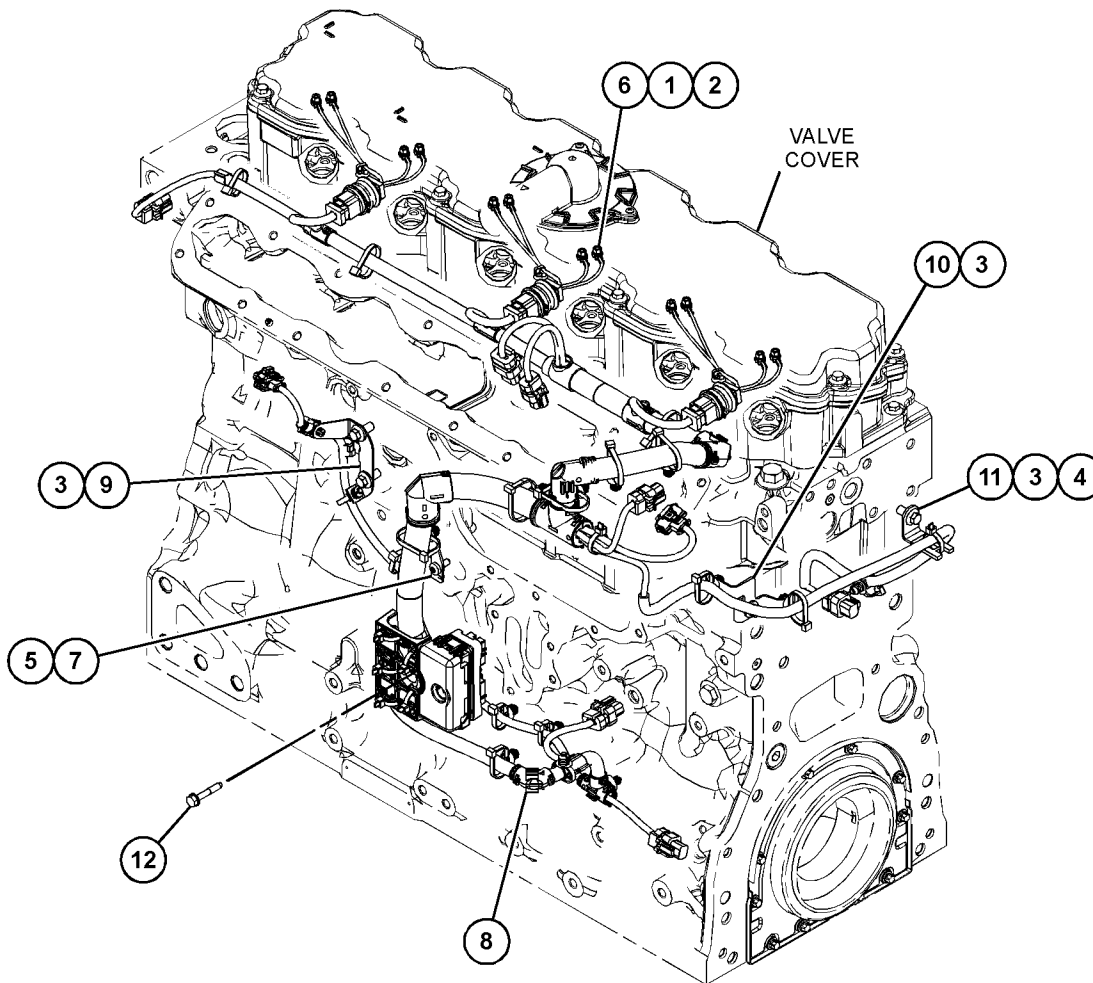
SMCS-1000, 1408

i05933200

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	277-5064	3	SEAL-O-RING						
	2	1	277-5065	3	CLIP						
M	3	1	124-3815	4	BOLT (M8X1.25X16-MM)						
	4	1	217-9039	1	STRAP-CABLE						
	5	1	348-4637	1	BOLT						
Y	6	1	375-8407	3	HARNESS AS-WIRING						237
	7	1	377-1293	1	BRACKET						
Y	8	1	385-5997	1	HARNESS AS-ENGINE						236
	9	1	389-3863	1	BRACKET						
	10	1	392-2780	1	BRACKET						
	11	1	132-5789	1	CLIP						
M	12	1	232-1693	1	BOLT-FLANGE HEAD (M6X1X35-MM)						

M - METRIC PART

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03731718

ELECTRICAL AND STARTING SYSTEM

395-0113 WIRING GP-ENGINE

TYPE 2

SMCS-1000, 1408

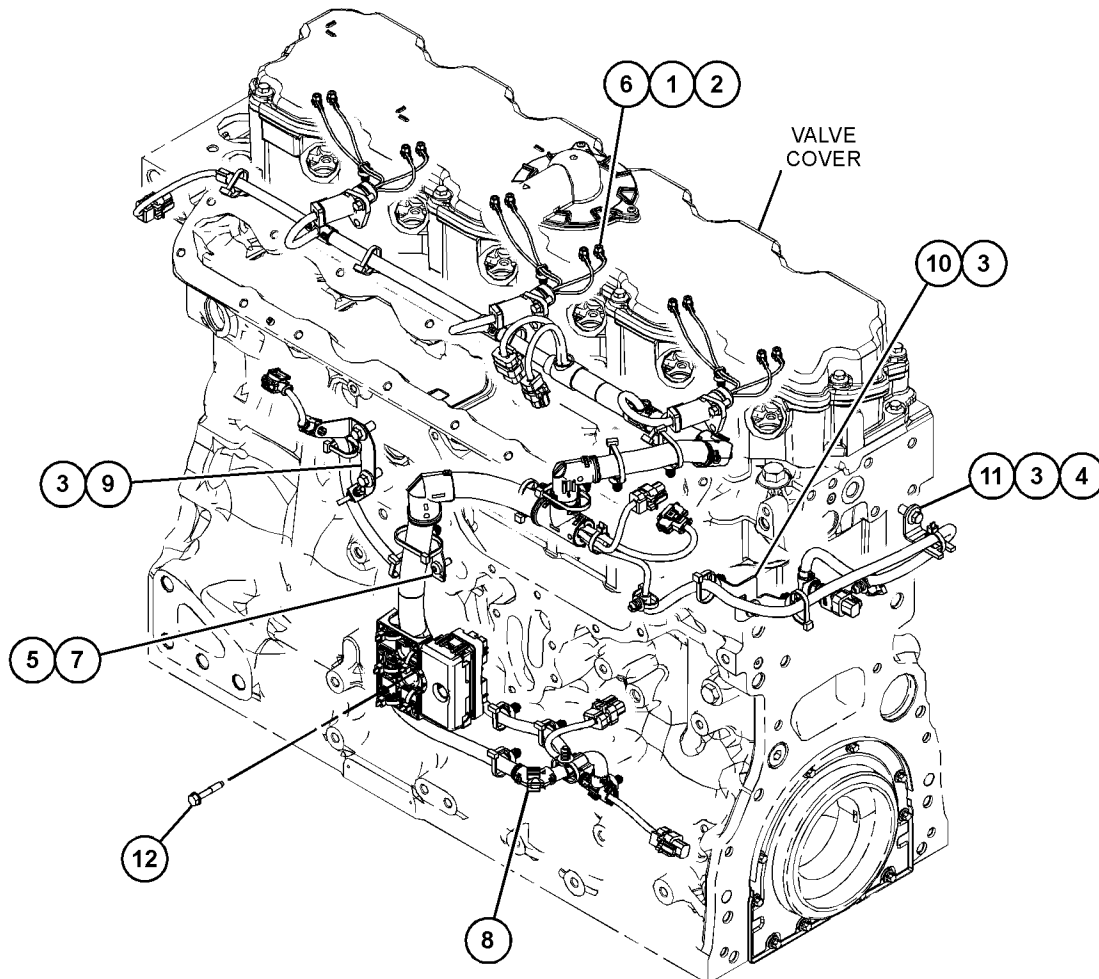
i05954941

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	1	1	323-7347	3	SEAL-O-RING						
C	2	1	254-3633	3	BOLT-FLANGE HEAD (M6X1X16-MM, SELF LOCKING)						
M	3	1	124-3815	4	BOLT (M8X1.25X16-MM)						
	4	1	217-9039	1	STRAP-CABLE						
	5	1	348-4637	1	BOLT						
C	6	1	458-3745	3	HARNESS AS-PLATFORM						
					(EACH INCLUDES)						
		1	332-7865	1	TIE-CABLE						
	7	1	377-1293	1	BRACKET						
Y	8	1	385-5997	1	HARNESS AS-ENGINE						236
	9	1	389-3863	1	BRACKET						
	10	1	392-2780	1	BRACKET						
	11	1	132-5789	1	CLIP						
M	12	1	232-1693	1	BOLT-FLANGE HEAD (M6X1X35-MM)						

C - CHANGE FROM PREVIOUS TYPE

M - METRIC PART

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03739892

ELECTRICAL AND STARTING SYSTEM

424-5516 WIRING GP-ENGINE

TYPE 1

SMCS-1000, 1408

i05706055

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	277-5064	3	SEAL-O-RING	
	2	1	277-5065	3	CLIP	
	3	1	114-4363	1	BOLT (M8X1.25X12-MM)	
M	4	1	124-3815	4	BOLT (M8X1.25X16-MM)	
	5	1	270-2679	1	LOCKWASHER	
	6	1	348-4637	1	BOLT	
Y	7	1	375-8407	3	HARNESS AS-WIRING	237
	8	1	377-1293	1	BRACKET	
	9	1	389-3863	1	BRACKET	
	10	1	392-2780	1	BRACKET	
Y	11	1	416-5399	1	HARNESS AS-SENSOR	237
	12	1	423-3842	1	BRACKET	
	13	1	132-5789	1	CLIP	
	14	1	203-9007	1	NUT (1-1/2-18-THD)	
	15	1	217-9039	1	STRAP-CABLE	
M	16	1	232-1693	1	BOLT-FLANGE HEAD (M6X1X35-MM)	

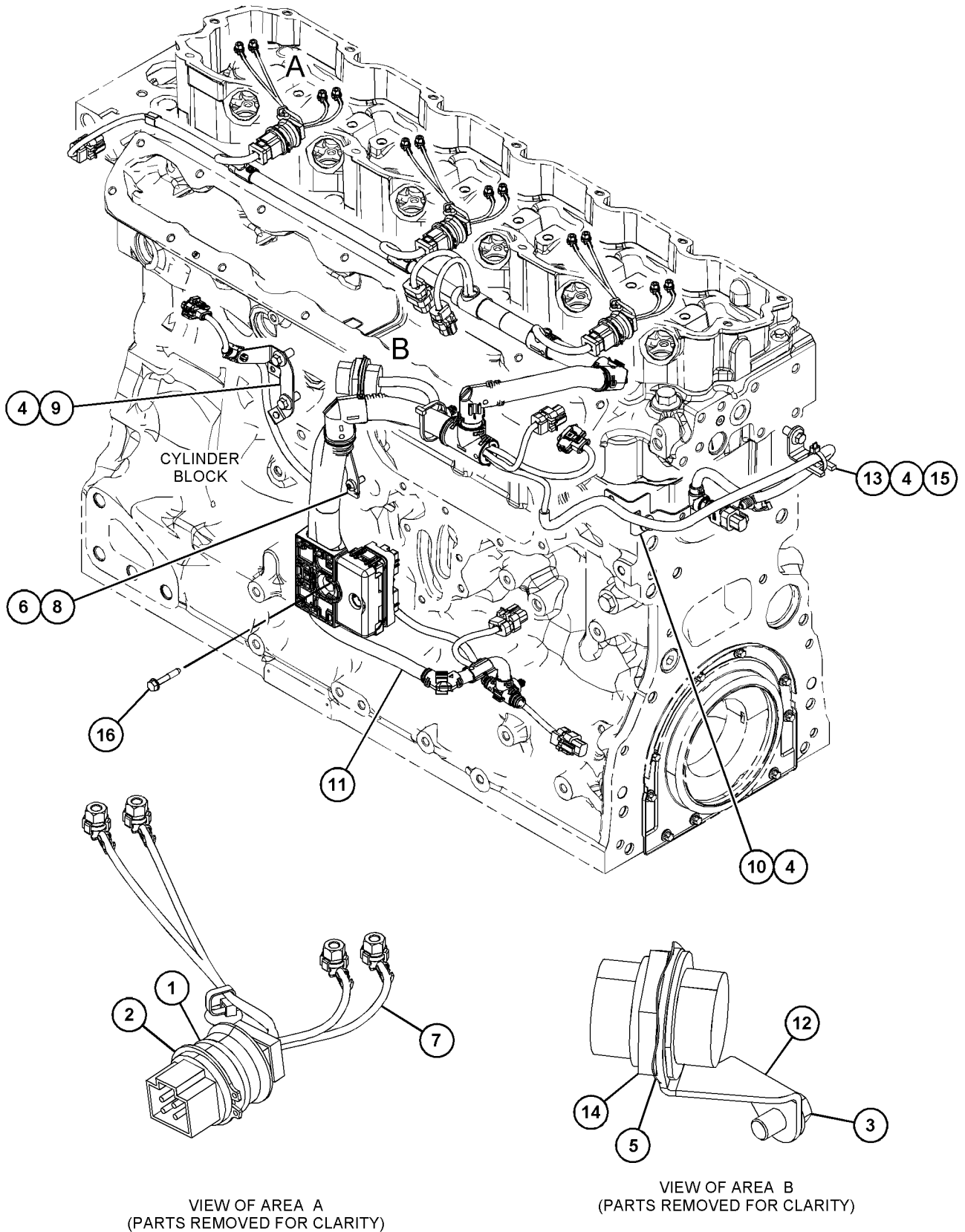
M - METRIC PART

Y - SEPARATE ILLUSTRATION

ELECTRICAL AND STARTING SYSTEM

424-5516 WIRING GP-ENGINE (contd.)

i05706055



GRAPHIC #1

<END>

g03648885

ELECTRICAL AND STARTING SYSTEM

424-5516 WIRING GP-ENGINE

TYPE 2

SMCS-1000, 1408

i05991212

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	323-7347	3	SEAL-O-RING	
	2	1	254-3633	3	BOLT-FLANGE HEAD (M6X1X16-MM, SELF LOCKING)	
	3	1	114-4363	1	BOLT (M8X1.25X12-MM)	
M	4	1	124-3815	4	BOLT (M8X1.25X16-MM)	
	5	1	270-2679	1	LOCKWASHER	
	6	1	348-4637	1	BOLT	
	7	1	458-3745	3	HARNESS AS-PLATFORM	
		1	332-7865	1	TIE-CABLE	
	8	1	377-1293	1	BRACKET	
	9	1	389-3863	1	BRACKET	
M	10	1	232-1693	1	BOLT-FLANGE HEAD (M6X1X35-MM)	
Y	11	1	416-5399	1	HARNESS AS-SENSOR	237
	12	1	423-3842	1	BRACKET	
	13	1	132-5789	1	CLIP	
	14	1	203-9007	1	NUT (1-1/2-18-THD)	
	15	1	217-9039	1	STRAP-CABLE	

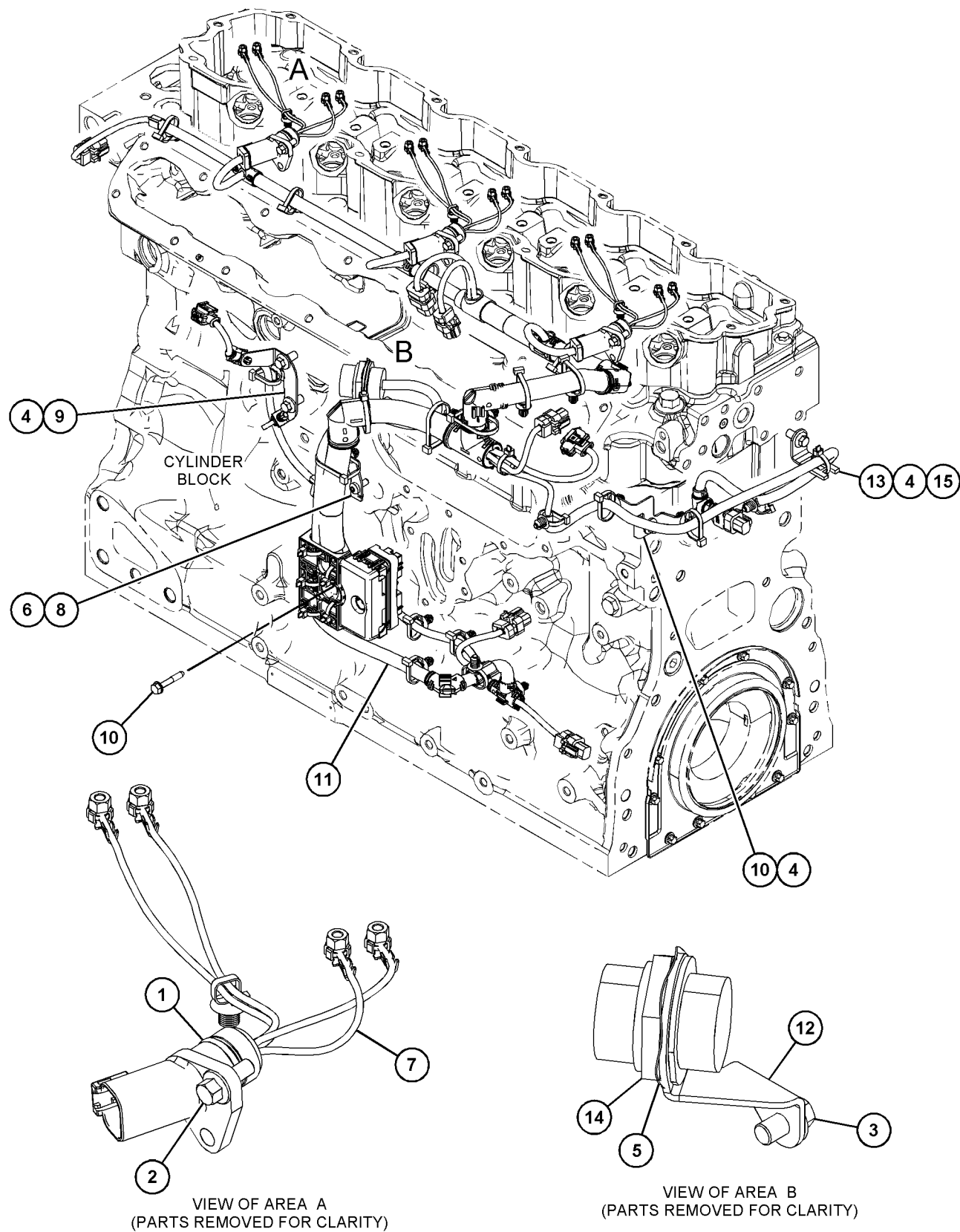
M - METRIC PART

Y - SEPARATE ILLUSTRATION

ELECTRICAL AND STARTING SYSTEM

424-5516 WIRING GP-ENGINE (contd.)

i05991212



GRAPHIC #1

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g03808738

ENCLOSURES, GUARDS AND BASES

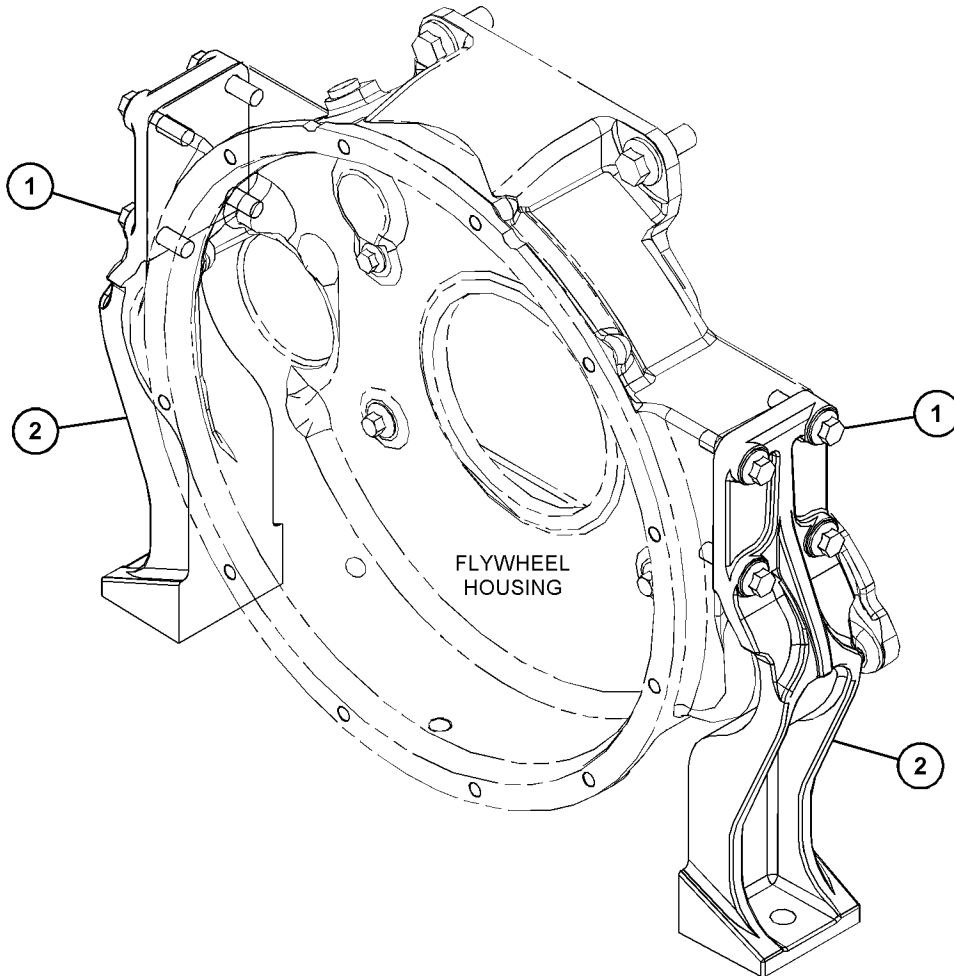
346-1512 MOUNTING GP-ACCESSORY MODULE

SAE 2 FLYWHEEL HOUSING

SMCS-7263, 7274

i05847747

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-4616	8	BOLT (M12X1.75X45-MM)						
	2	1	293-8070	2	BRACKET						



GRAPHIC #1

<END>

g03696709

ENCLOSURES, GUARDS AND BASES

346-1528 MOUNTING GP-ACCESSORY MODULE

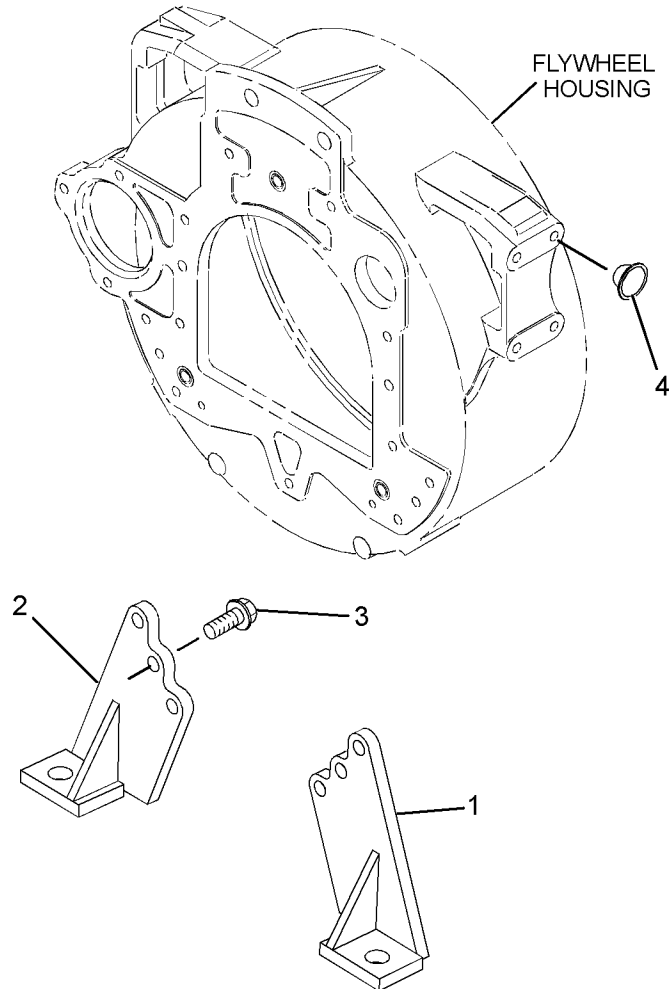
WHITE BLANKING PLUGS

SMCS-7263, 7274

i05859679

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	101-7186	1	BRACKET						
	2	1	101-7185	1	BRACKET						
M	3	1	6I-0423	6	BOLT (M12X1.75X30-MM)						
	4	1	6H-3616	4	PLUG-PROTECTION						

M - METRIC PART



GRAPHIC #1

<END>

g01316761

ENCLOSURES, GUARDS AND BASES

373-5023 MOUNTING GP-ACCESSORY MODULE

SMCS-7263, 7274

i05949463

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
M	6I-0423	6	BOLT (M12X1.75X30-MM)	
	101-7185	1	BRACKET	
	101-7186	1	BRACKET	

M - METRIC PART

<END>

448-9710 MOUNTING GP-ACCESSORY MODULE

SMCS-7263, 7274

i05989989

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
	067-6823	1	PLUG	
	113-4616	1	CONNECTOR	
	293-1881	1	ELBOW	

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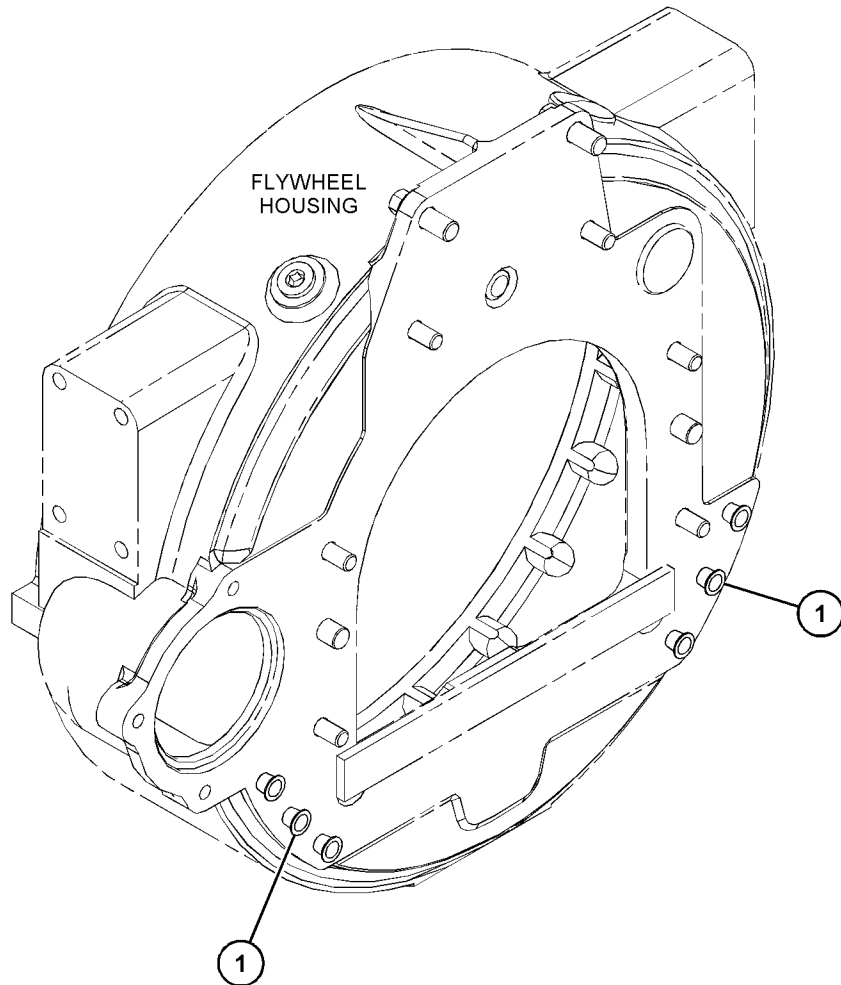
OPERATOR STATION

380-1084 PLUG AS

SMCS-7553

i05934036

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6H-3616	6	PLUG-PROTECTION						



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<END>

g03732224

SERVICE EQUIPMENT AND SUPPLIES

390-0060 FILM GP EMISSIONS

SMCS-7405, 7557

i05949457

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	317-6198	1	FILM-IDENTIFICATION (ENGINE SERIAL NUMBER)						
	326-9053	1	FILM-WARNING (DO NOT SPRAY, READ OMM)						
	332-0896	2	LABEL						
	346-8219	2	FILM-WARNING (UNIVERSAL WARNING)						
	350-8958	1	PLATE-SERIAL NUMBER (ENGINE)						
	355-3486	1	STRIP-ADHESIVE						
	392-8477	1	PLATE-IDENTIFICATION (CAT)						

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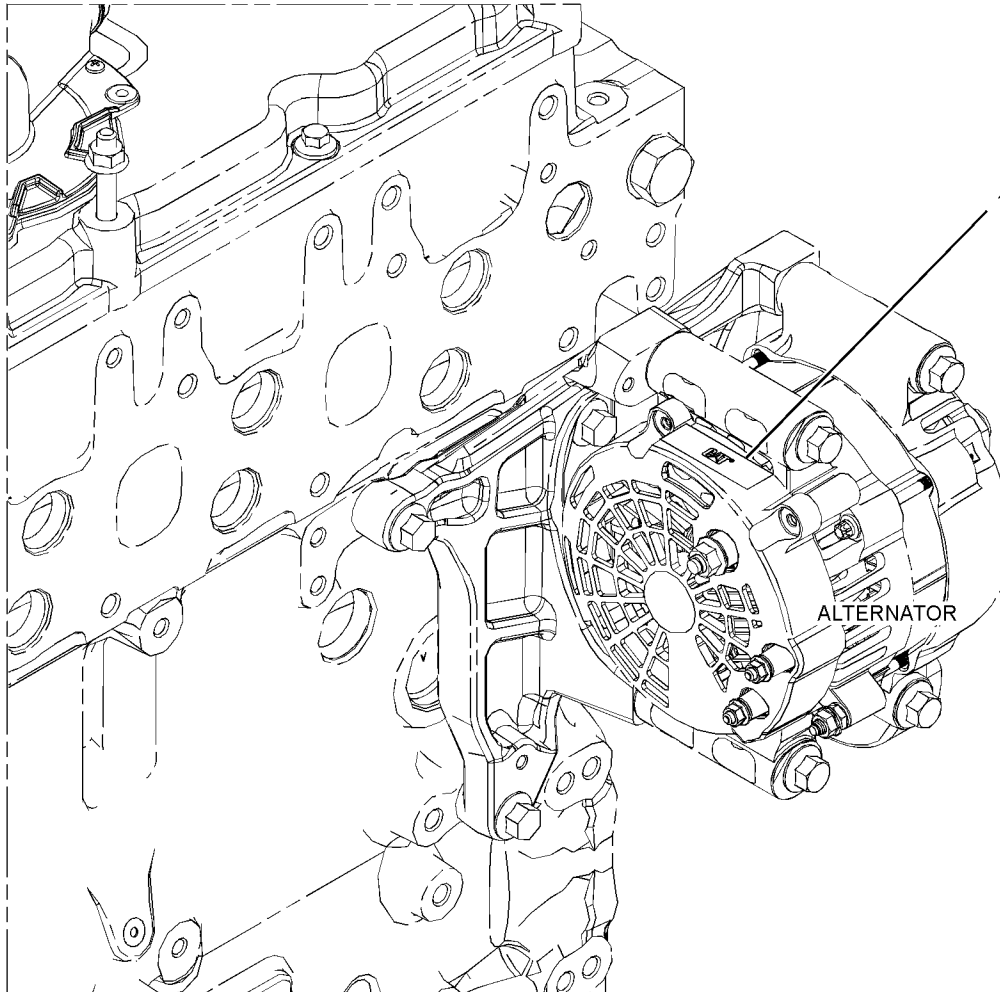
SERVICE EQUIPMENT AND SUPPLIES

415-5625 FILM GP

SMCS-7405, 7557

i06041156

NOTE	REF	GRAPHIC	PART NUMBER	QTY	PART NAME						SEE
	NO				1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	451-7225	1	FILM-IDENTIFICATION (CAT)						PAGE



GRAPHIC #1

<END>

g02675436

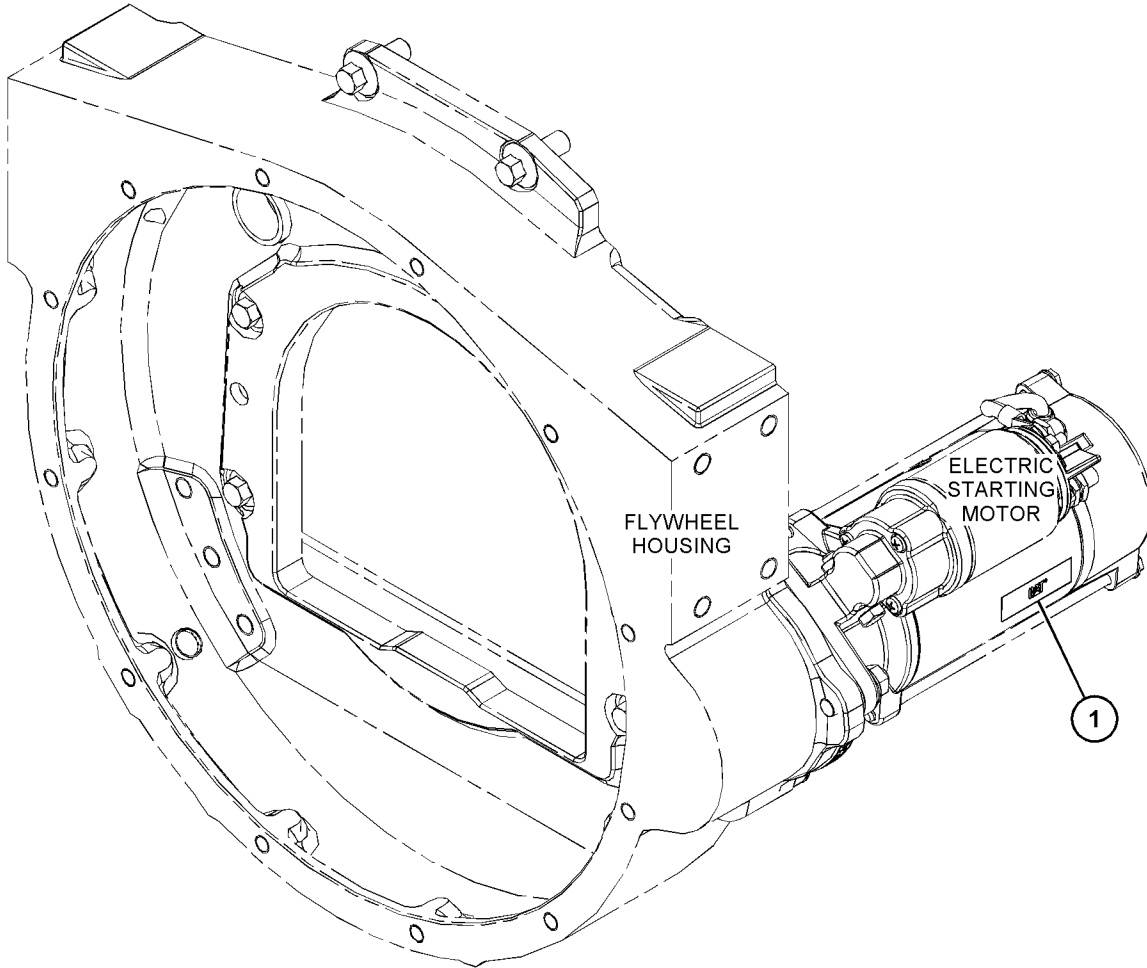
SERVICE EQUIPMENT AND SUPPLIES

423-8803 FILM GP BRANDING

SMCS-7405, 7557

i05716589

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	329-7312	1	FILM-IDENTIFICATION (CAT)						



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g03646962

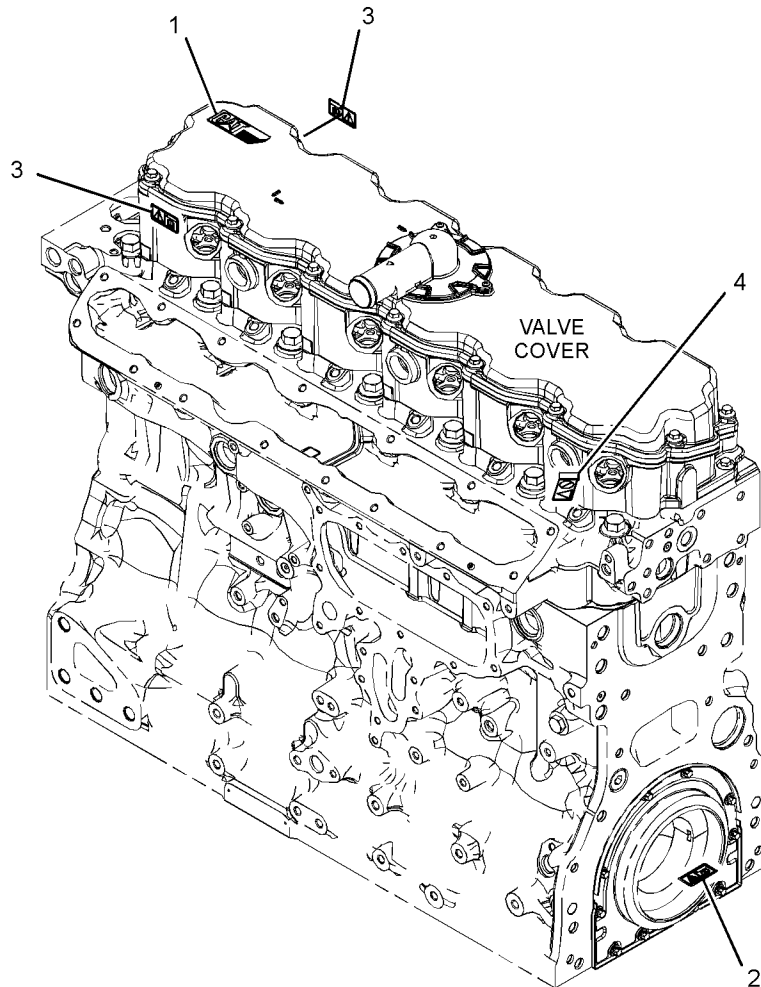
SERVICE EQUIPMENT AND SUPPLIES

378-8167 PLATE & FILM GP

SMCS-7405, 7557

i05580049

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	392-8477	1	PLATE-IDENTIFICATION (CAT)						
	2	1	326-9053	1	FILM-WARNING (DO NOT SPRAY, READ OMM)						
	3	1	346-8219	2	FILM-WARNING (UNIVERSAL WARNING)						
	4	1	355-3486	1	STRIP-ADHESIVE						



GRAPHIC #1

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g03378858

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	242	6I-0254	92		249		
2L-8058	241		136	6I-0631	83		
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