



Parts Manual

C3.4B IOPU Industrial Engine

CJ31-Up (Package)
CNW1-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 AS-AIR (AIR CLEANER)	416-8974	1	AIR CLEANER GP	73
BASIC ENGINE				
BELT-SERPENTINE	378-2561	1	DRIVE GP-FAN	27
BREATHER AS (CRANKCASE)	386-2778	1	HOUSING GP-FRONT	34
STRAINER AS	388-1188	1	PAN GP-OIL	40
STRAINER AS-OIL	363-1879	1	PAN GP-OIL	40
	396-4354	1	PAN GP-OIL	42
COOLING SYSTEM				
CAP-RADIATOR (16-PSI)	211-6574	1	RADIATOR & MOUNTING GP	70
REGULATOR-TEMPERATURE	386-6173	1	REGULATOR GP-TEMPERATURE	72
FUEL SYSTEM				
FILTER ELEMENT-FUEL	360-8960	1	FILTER GP-FUEL	84
FILTER GP-FUEL	355-7262	1	LINES GP-FUEL FILTER	90
LUBRICATION SYSTEM				
CAP-OIL FILLER (ENGINE)	130-9888	1	FILLER GP-ENGINE OIL	50
FILTER (OIL)	374-0619	1	FILTER & MTG GP-ENGINE OIL	52
FILTER AS-OIL (ENGINE OIL)	441-6852	1	FILTER GP-ENGINE OIL	53
FILTER ELEMENT-BREATHER	379-3058	1	BREATHER GP	48
STRAINER	433-3954	1	STRAINER AS-OIL	59
STRAINER AS	431-5644	1	STRAINER AS-OIL	59

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COOLER & MTG GP-EXHAUST (NRS)	75	FILTER GP-PRIMARY FUEL.....	85
COOLER GP-ENGINE OIL	62	FILTER GP-WATER SEP & FUEL	86
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COVER GP-VALVE MECHANISM.....	12	GAUGE AS-OIL LEVEL (DIPSTICK).....	54
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ENGINE ARRANGEMENT

392-4202 ENGINE AR-PRIMARY

S/N: CNW1-UP

75 BRAKE KW (101 BHP) AT 2200 RPM

PART OF 393-3428 ENGINE AR-PRIMARY

SMCS-1000

i05385064

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	350-6576	1	AIR INLET & EXHAUST AR						74
Y	350-6267	1	ALTERNATOR GP-CHARGING						94
Y	350-6575	1	BALANCER GP						8
Y	350-1022	1	BREATHER GP						47
Y	350-3753	1	CAMSHAFT GP						9
Y	350-1467	1	CONNECTION GP-WATER						60
Y	349-7214	1	CONTROL GP-UNPROGRAMMED						96
Y	350-1054	1	COOLER GP-ENGINE OIL						62
Y	355-4839	1	COVER GP-ACCESSORY DRIVE						11
Y	353-5330	1	COVER GP-OIL FILLER						49
Y	350-1029	1	COVER GP-VALVE MECHANISM						12
Y	435-4004	1	COVER GP-VALVE MECHANISM						14
Y	377-5455	1	CRANKSHAFT GP						18
Y	382-6634	1	CYLINDER BLOCK GP						23
Y	350-3751	1	CYLINDER HEAD GP						26
Y	350-0652	1	DRIVE GP-FAN						27
Y	350-1474	1	EXTENSION GP-FAN						28
Y	350-1106	1	FASTENER GP-ENGINE						29
Y	377-5991	1	FILLER GP-ENGINE OIL						51
Y	418-3402	1	FILTER GP-ENGINE OIL						53
Y	349-9634	1	FLYWHEEL GP						31
Y	381-3554	1	HOUSING GP-FLYWHEEL						32
Y	377-6012	1	HOUSING GP-FRONT						33
Y	368-9611	1	INJECTOR GP-FUEL						87
Y	350-1826	1	LIFTING GP-ENGINE						36
Y	418-3788	1	LINES GP-FUEL						89
Y	350-1817	1	LINES GP-FUEL FILTER						90
Y	350-1802	1	MANIFOLD GP-INLET						78
Y	358-1416	1	MODULE AR-CLEAN EMISSIONS						80
Y	382-9628	1	PAN GP-OIL (OIL LEVEL GAUGE)						42
Y	382-6589	1	PAN GP-OIL						42
Y	350-3750	1	PISTON & ROD GP						43
Y	418-5175	1	PLATE & FILM GP						106
Y	350-1959	1	PLUG GP-WATER LINES						66
Y	350-1102	1	PULLEY GP-CRANKSHAFT						44
Y	350-3754	1	PUMP GP-FUEL INJECTION						91
Y	350-5644	1	PUMP GP-WATER						68
Y	350-3752	1	ROCKER ARM GP						45
Y	383-5875	1	SENSOR & MTG GP-SOOT						99
Y	382-2989	1	SENSOR GP-ENGINE						100
Y	350-1818	1	STARTING AID GP						102
Y	350-0490	1	STARTING MOTOR GP-ELECTRIC						103
Y	373-8349	1	WIRING GP-ENGINE						104
	398-3309	1	ELECTRONICS GP-ENGINE RATINGS						

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

392-5184 ENGINE AR-PRIMARY

S/N: CNW1-UP

75 BRAKE KW (101 BHP) AT 2200 RPM

PART OF 393-3429 ENGINE AR-PRIMARY

SMCS-1000

i05429535

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	350-6576	1	AIR INLET & EXHAUST AR						74
Y	350-6267	1	ALTERNATOR GP-CHARGING						94
Y	350-1022	1	BREATHER GP						47
Y	350-3753	1	CAMSHAFT GP						9
Y	350-1467	1	CONNECTION GP-WATER						60
Y	349-7214	2	CONTROL GP-UNPROGRAMMED						96
Y	350-1054	1	COOLER GP-ENGINE OIL						62
Y	355-4839	1	COVER GP-ACCESSORY DRIVE						11
Y	353-5330	1	COVER GP-OIL FILLER						49
Y	350-1029	1	COVER GP-VALVE MECHANISM						12
Y	350-3746	1	CRANKSHAFT GP						17
Y	350-3745	1	CYLINDER BLOCK GP						22
Y	350-3751	1	CYLINDER HEAD GP						26
Y	350-0652	1	DRIVE GP-FAN						27
Y	350-1474	1	EXTENSION GP-FAN						28
Y	350-1106	1	FASTENER GP-ENGINE						29
Y	377-5991	1	FILLER GP-ENGINE OIL						51
Y	418-3402	1	FILTER GP-ENGINE OIL						53
Y	349-9634	1	FLYWHEEL GP						31
Y	377-5240	1	GAUGE AS-OIL LEVEL (DIPSTICK)						54
Y	381-3554	1	HOUSING GP-FLYWHEEL						32
Y	377-6012	1	HOUSING GP-FRONT						33
Y	368-9611	1	INJECTOR GP-FUEL						87
Y	350-1826	1	LIFTING GP-ENGINE						36
Y	418-3788	1	LINES GP-FUEL						89
Y	350-1817	1	LINES GP-FUEL FILTER						90
Y	350-1802	1	MANIFOLD GP-INLET						78
Y	358-1416	1	MODULE AR-CLEAN EMISSIONS						80
Y	350-0660	1	PAN GP-OIL						40
Y	350-3750	1	PISTON & ROD GP						43
Y	350-1959	1	PLUG GP-WATER LINES						66
Y	350-1102	1	PULLEY GP-CRANKSHAFT						44
Y	350-1569	1	PUMP GP-ENGINE OIL						57
Y	350-3754	1	PUMP GP-FUEL INJECTION						91
Y	350-5644	1	PUMP GP-WATER						68
Y	350-3752	1	ROCKER ARM GP						45
Y	383-5875	1	SENSOR & MTG GP-SOOT						99
Y	382-2989	1	SENSOR GP-ENGINE						100
Y	350-1818	1	STARTING AID GP						102
Y	350-0490	1	STARTING MOTOR GP-ELECTRIC						103
Y	373-8349	1	WIRING GP-ENGINE						104
	349-9189	1	ELECTRONICS GP						
	398-3309	1	ELECTRONICS GP-ENGINE RATINGS						

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

392-6286 ENGINE AR-PRIMARY

S/N: CNW1-UP

66 BRAKE KW (89 BHP) AT 2200 RPM
PART OF 393-3430 ENGINE AR-PRIMARY

SMCS-1000

i05385066

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	350-6576	1	AIR INLET & EXHAUST AR						74
Y	350-6267	1	ALTERNATOR GP-CHARGING						94
Y	350-6575	1	BALANCER GP						8
Y	350-1022	1	BREATHER GP						47
Y	350-3753	1	CAMSHAFT GP						9
Y	350-1467	1	CONNECTION GP-WATER						60
Y	349-7214	1	CONTROL GP-UNPROGRAMMED						96
Y	350-1054	1	COOLER GP-ENGINE OIL						62
Y	355-4839	1	COVER GP-ACCESSORY DRIVE						11
Y	353-5330	1	COVER GP-OIL FILLER						49
Y	350-1029	1	COVER GP-VALVE MECHANISM						12
Y	435-4004	1	COVER GP-VALVE MECHANISM						14
Y	377-5455	1	CRANKSHAFT GP						18
Y	382-6634	1	CYLINDER BLOCK GP						23
Y	350-3751	1	CYLINDER HEAD GP						26
Y	350-0652	1	DRIVE GP-FAN						27
Y	350-1474	1	EXTENSION GP-FAN						28
Y	350-1106	1	FASTENER GP-ENGINE						29
Y	377-5991	1	FILLER GP-ENGINE OIL						51
Y	418-3402	1	FILTER GP-ENGINE OIL						53
Y	349-9634	1	FLYWHEEL GP						31
Y	381-3554	1	HOUSING GP-FLYWHEEL						32
Y	377-6012	1	HOUSING GP-FRONT						33
Y	368-9611	1	INJECTOR GP-FUEL						87
Y	350-1826	1	LIFTING GP-ENGINE						36
Y	418-3788	1	LINES GP-FUEL						89
Y	350-1817	1	LINES GP-FUEL FILTER						90
Y	350-1802	1	MANIFOLD GP-INLET						78
Y	358-1416	1	MODULE AR-CLEAN EMISSIONS						80
Y	382-9628	1	PAN GP-OIL (OIL LEVEL GAUGE)						42
Y	382-6589	1	PAN GP-OIL						42
Y	350-3750	1	PISTON & ROD GP						43
Y	418-5175	1	PLATE & FILM GP						106
Y	350-1959	1	PLUG GP-WATER LINES						66
Y	350-1102	1	PULLEY GP-CRANKSHAFT						44
Y	350-3754	1	PUMP GP-FUEL INJECTION						91
Y	350-5644	1	PUMP GP-WATER						68
Y	350-3752	1	ROCKER ARM GP						45
Y	383-5875	1	SENSOR & MTG GP-SOOT						99
Y	382-2989	1	SENSOR GP-ENGINE						100
Y	350-1818	1	STARTING AID GP						102
Y	350-0490	1	STARTING MOTOR GP-ELECTRIC						103
Y	373-8349	1	WIRING GP-ENGINE						104
	398-2996	1	ELECTRONICS GP-ENGINE RATINGS						

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

392-6354 ENGINE AR-PRIMARY

S/N: CNW1-UP

66 BRAKE KW (89 BHP) AT 2200 RPM
PART OF 393-3431 ENGINE AR-PRIMARY

SMCS-1000

i05429565

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	350-6576	1	AIR INLET & EXHAUST AR						74
Y	350-6267	1	ALTERNATOR GP-CHARGING						94
Y	350-1022	1	BREATHER GP						47
Y	350-3753	1	CAMSHAFT GP						9
Y	350-1467	1	CONNECTION GP-WATER						60
Y	349-7214	1	CONTROL GP-UNPROGRAMMED						96
Y	350-1054	1	COOLER GP-ENGINE OIL						62
Y	355-4839	1	COVER GP-ACCESSORY DRIVE						11
Y	353-5330	1	COVER GP-OIL FILLER						49
Y	350-1029	1	COVER GP-VALVE MECHANISM						12
Y	435-4004	1	COVER GP-VALVE MECHANISM						14
Y	350-3746	1	CRANKSHAFT GP						17
Y	350-3745	1	CYLINDER BLOCK GP						22
Y	350-3751	1	CYLINDER HEAD GP						26
Y	350-0652	1	DRIVE GP-FAN						27
Y	350-1474	1	EXTENSION GP-FAN						28
Y	350-1106	1	FASTENER GP-ENGINE						29
Y	377-5991	1	FILLER GP-ENGINE OIL						51
Y	418-3402	1	FILTER GP-ENGINE OIL						53
Y	349-9634	1	FLYWHEEL GP						31
Y	377-5240	1	GAUGE AS-OIL LEVEL (DIPSTICK)						54
Y	381-3554	1	HOUSING GP-FLYWHEEL						32
Y	377-6012	1	HOUSING GP-FRONT						33
Y	368-9611	1	INJECTOR GP-FUEL						87
Y	350-1826	1	LIFTING GP-ENGINE						36
Y	418-3788	1	LINES GP-FUEL						89
Y	350-1817	1	LINES GP-FUEL FILTER						90
Y	350-1802	1	MANIFOLD GP-INLET						78
Y	358-1416	1	MODULE AR-CLEAN EMISSIONS						80
Y	350-0660	1	PAN GP-OIL						40
Y	350-3750	1	PISTON & ROD GP						43
Y	418-5175	1	PLATE & FILM GP						106
Y	350-1959	1	PLUG GP-WATER LINES						66
Y	350-1102	1	PULLEY GP-CRANKSHAFT						44
Y	350-1569	1	PUMP GP-ENGINE OIL						57
Y	350-3754	1	PUMP GP-FUEL INJECTION						91
Y	350-5644	1	PUMP GP-WATER						68
Y	350-3752	1	ROCKER ARM GP						45
Y	383-5875	1	SENSOR & MTG GP-SOOT						99
Y	382-2989	1	SENSOR GP-ENGINE						100
Y	350-1818	1	STARTING AID GP						102
Y	350-0490	1	STARTING MOTOR GP-ELECTRIC						103
Y	373-8349	1	WIRING GP-ENGINE						104
	398-2996	1	ELECTRONICS GP-ENGINE RATINGS						

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

393-3428 ENGINE AR-PRIMARY

S/N: CJ31-UP

75 BRAKE KW (101 BHP) AT 2200 RPM

SMCS-1000

i05424661

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	392-9543	1	AIR CLEANER GP						73
Y	378-8264	1	CONTROL & MTG GP-ELECTRONIC						95
Y	392-4202	1	ENGINE AR-PRIMARY						1
Y	378-6631	1	FAN GP-SUCTION						65
Y	378-2706	1	FILTER GP-PRIMARY FUEL						85
Y	378-7708	1	MOUNTING GP-ENGINE						38
Y	378-3751	1	RADIATOR & MOUNTING GP						70

Y - SEPARATE ILLUSTRATION

<END>

393-3429 ENGINE AR-PRIMARY

S/N: CJ31-UP

75 BRAKE KW (101 BHP) AT 2200 RPM

SMCS-1000

i04905400

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	392-9543	1	AIR CLEANER GP						73
Y	378-8264	1	CONTROL & MTG GP-ELECTRONIC						95
Y	392-5184	1	ENGINE AR-PRIMARY						2
Y	378-6631	1	FAN GP-SUCTION						65
Y	378-2706	1	FILTER GP-PRIMARY FUEL						85
Y	378-7708	1	MOUNTING GP-ENGINE						38
Y	378-3751	1	RADIATOR & MOUNTING GP						70

Y - SEPARATE ILLUSTRATION

<END>

393-3430 ENGINE AR-PRIMARY

S/N: CJ31-UP

66 BRAKE KW (89 BHP) AT 2200 RPM

SMCS-1000

i04905358

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	392-9543	1	AIR CLEANER GP						73
Y	378-8264	1	CONTROL & MTG GP-ELECTRONIC						95
Y	392-6286	1	ENGINE AR-PRIMARY						3
Y	378-6631	1	FAN GP-SUCTION						65
Y	378-2706	1	FILTER GP-PRIMARY FUEL						85
Y	378-7708	1	MOUNTING GP-ENGINE						38
Y	378-3751	1	RADIATOR & MOUNTING GP						70

Y - SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

393-3431 ENGINE AR-PRIMARY

S/N: CJ31-UP

75 BRAKE KW (101 BHP) AT 2200 RPM

SMCS-1000

i04905476

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	392-9543	1	AIR CLEANER GP						73
Y	378-8264	1	CONTROL & MTG GP-ELECTRONIC						95
Y	392-6354	1	ENGINE AR-PRIMARY						4
Y	378-6631	1	FAN GP-SUCTION						65
Y	378-2706	1	FILTER GP-PRIMARY FUEL						85
Y	378-7708	1	MOUNTING GP-ENGINE						38
Y	378-3751	1	RADIATOR & MOUNTING GP						70
Y - SEPARATE ILLUSTRATION									

<END>

BASIC ENGINE

374-6758 BALANCER AS

S/N: CNW1-UP

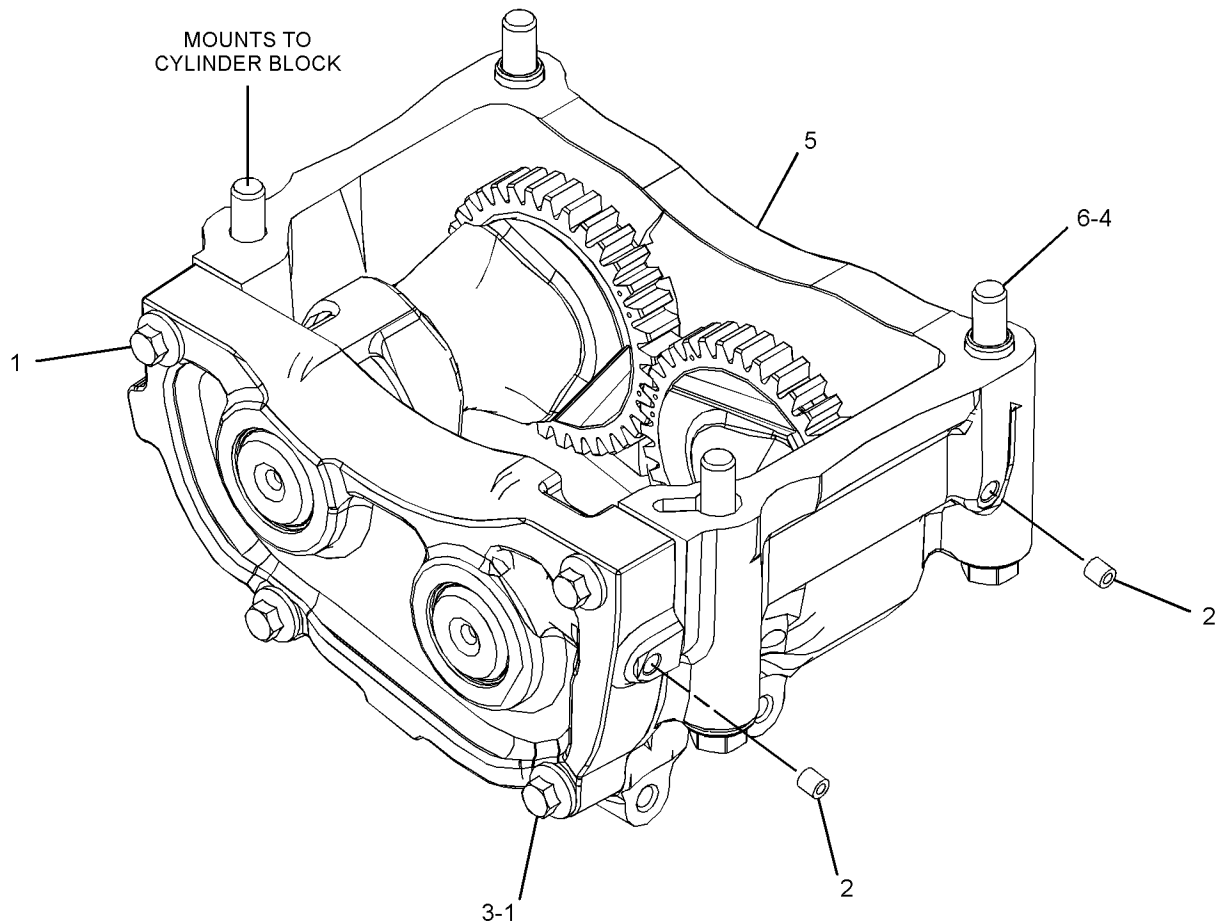
PART OF 350-6575 BALANCER GP

SMCS-1220

i05347473

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	4	BOLT (M8X1.25X35-MM)						
	2	1	379-3144	2	PLUG						
	3	1	381-3510	2	DOWEL						
	4	1	399-1111	2	DOWEL						
	5	1	415-9880	1	BALANCER AS						
	6	1	423-0049	4	BOLT						

M - METRIC PART



GRAPHIC #1

<END>

g03394027

BASIC ENGINE

350-6575 BALANCER GP

S/N: CNW1-UP

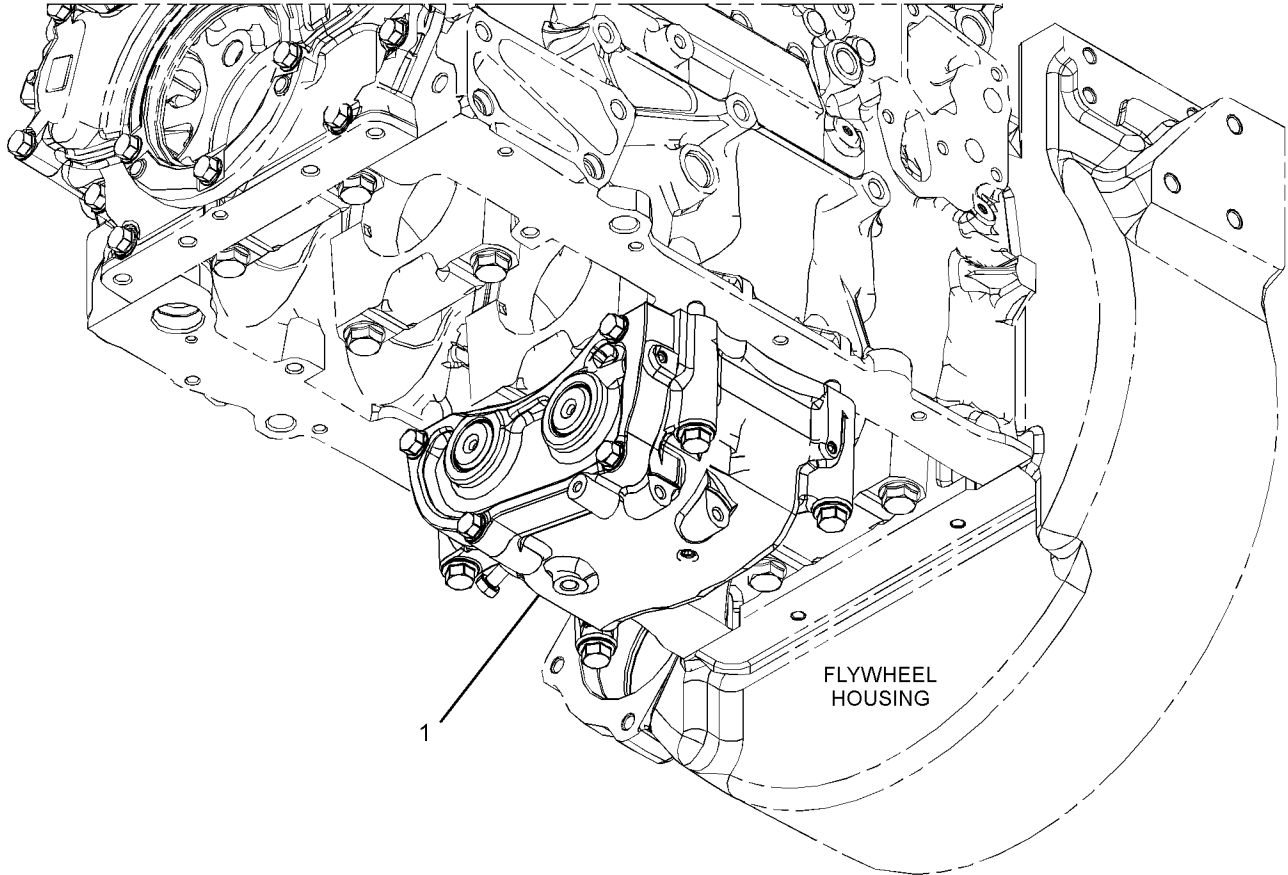
PART OF 392-4202, 392-6286 ENGINE AR-PRIMARY

SMCS-1220

i05347472

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	374-6758	1	BALANCER AS						7

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03098616

BASIC ENGINE

350-3753 CAMSHAFT GP

S/N: CNW1-UP

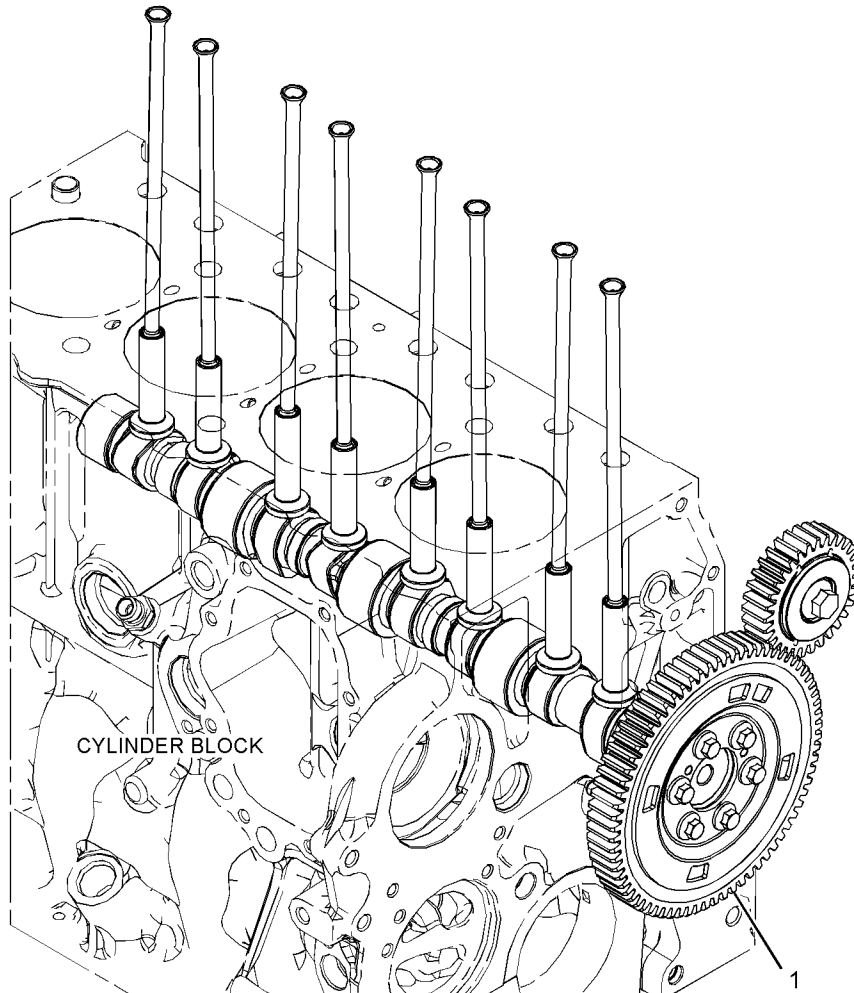
PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1210

i04892615

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1		369-3797	1	CAMSHAFT GP						10

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g02873137

BASIC ENGINE

369-3797 CAMSHAFT GP

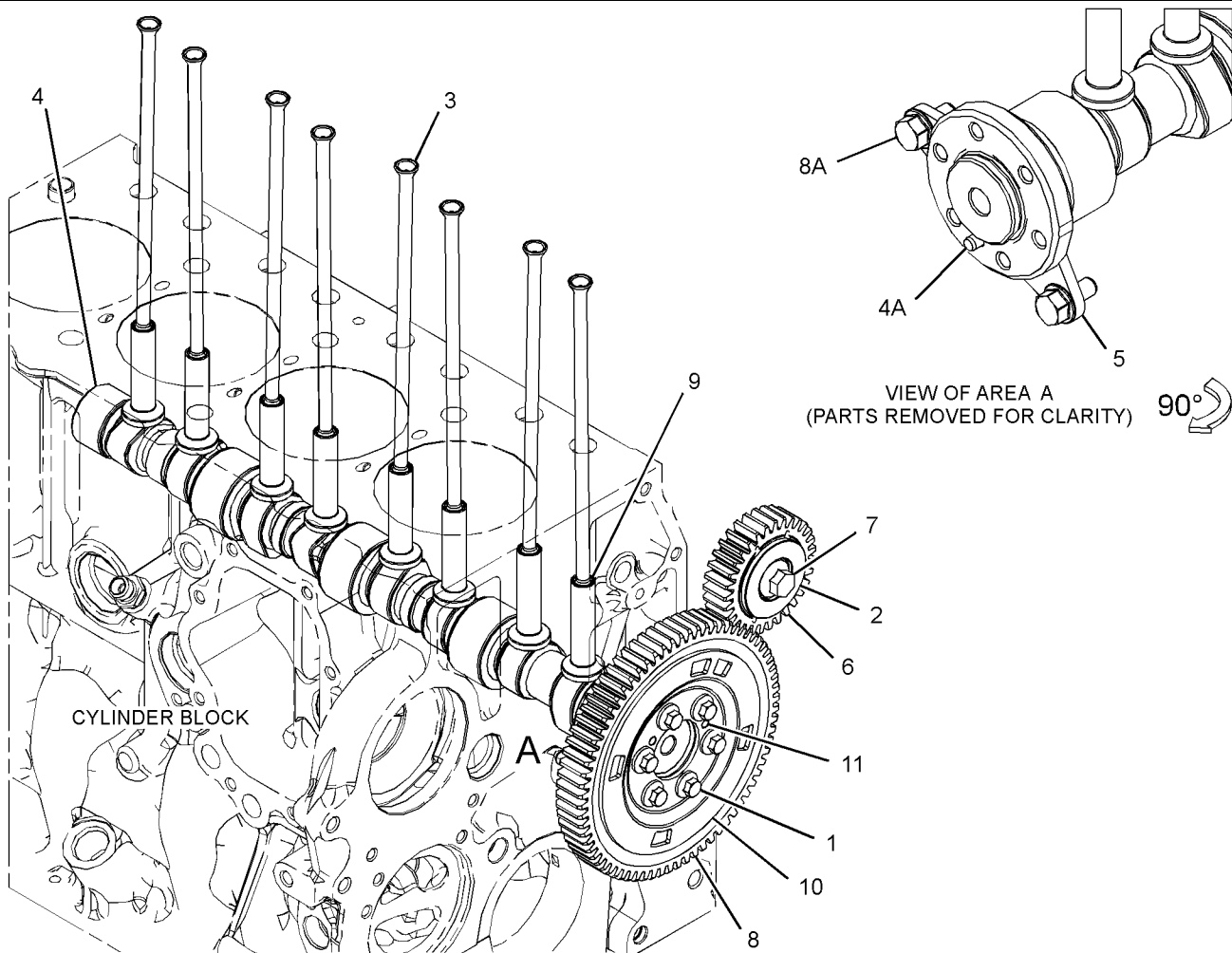
S/N: CNW1-UP

PART OF 350-3753 CAMSHAFT GP

SMCS-1210

i05391987

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	389-2868	6	BOLT						
	2	1	389-1863	2	BOLT						
	3	1	381-3638	8	PUSHROD						
	4	1	383-1332	1	CAMSHAFT AS						
	4A	1	381-3515	1	DOWEL						
	5	1	383-1333	1	YOKE						
	6	1	383-1335	1	GEAR						
	7	1	385-1649	1	BOLT						
	8	1	385-9076	1	PINION						
	8A	1	387-7739	2	DOWEL						
	9	1	385-9077	1	PIN						
	10	1	386-2093	8	TAPPET						
	11	1	386-6262	1	FLANGE						



GRAPHIC #1

<END>

g03425588

BASIC ENGINE

355-4839 COVER GP-ACCESSORY DRIVE

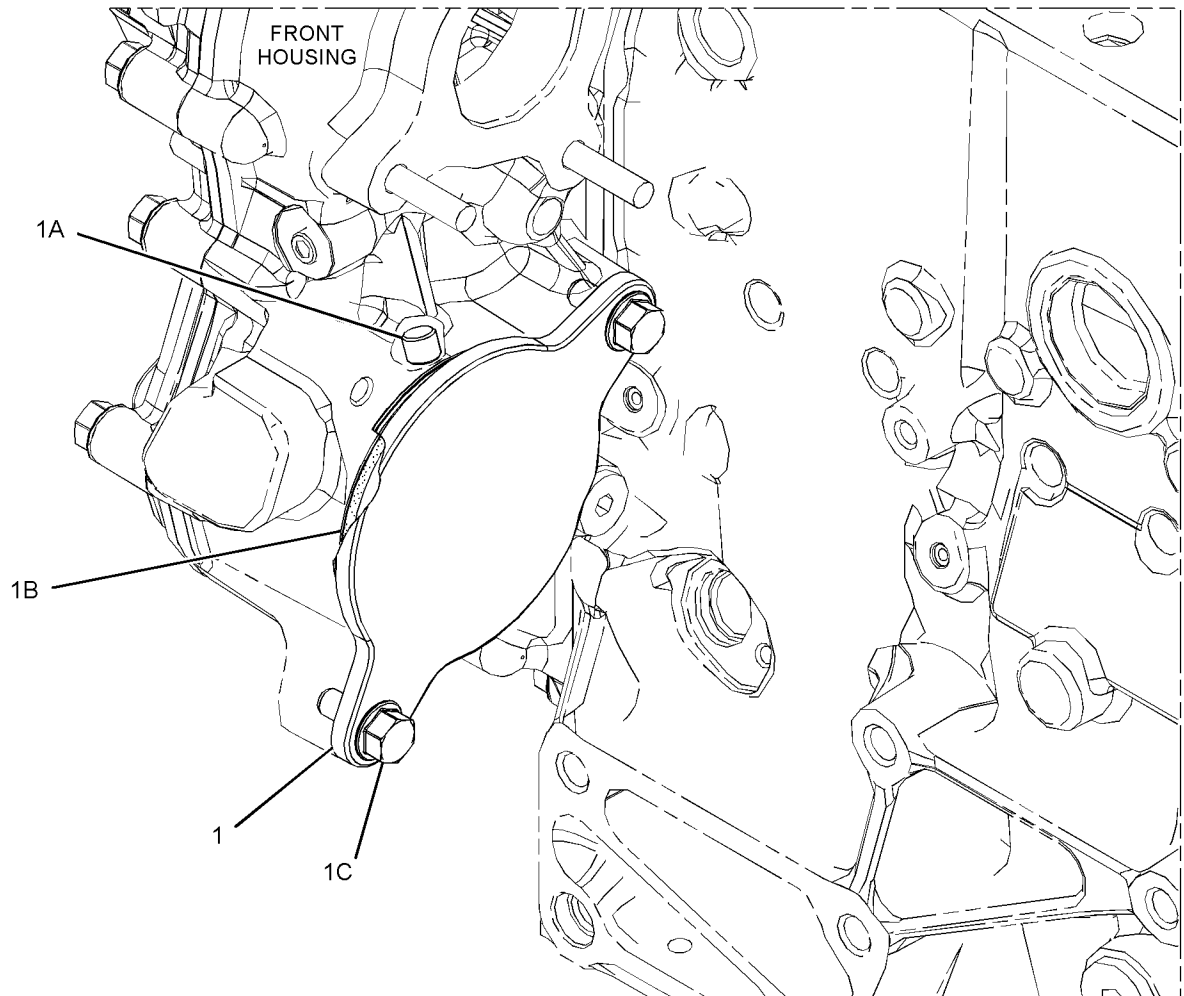
S/N: CNW1-UP

PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1207

i04918375

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	361-7345	1	COVER AS						
		1	388-7614	1	PLUG						
1A	1	1	386-1921	1	PLUG						
1B	1	1	387-7713	1	SEAL						
1C	1	1	389-1874	2	BOLT						



GRAPHIC #1

<END>

g03098896

BASIC ENGINE

350-1029 COVER GP-VALVE MECHANISM

S/N: CNW1-UP

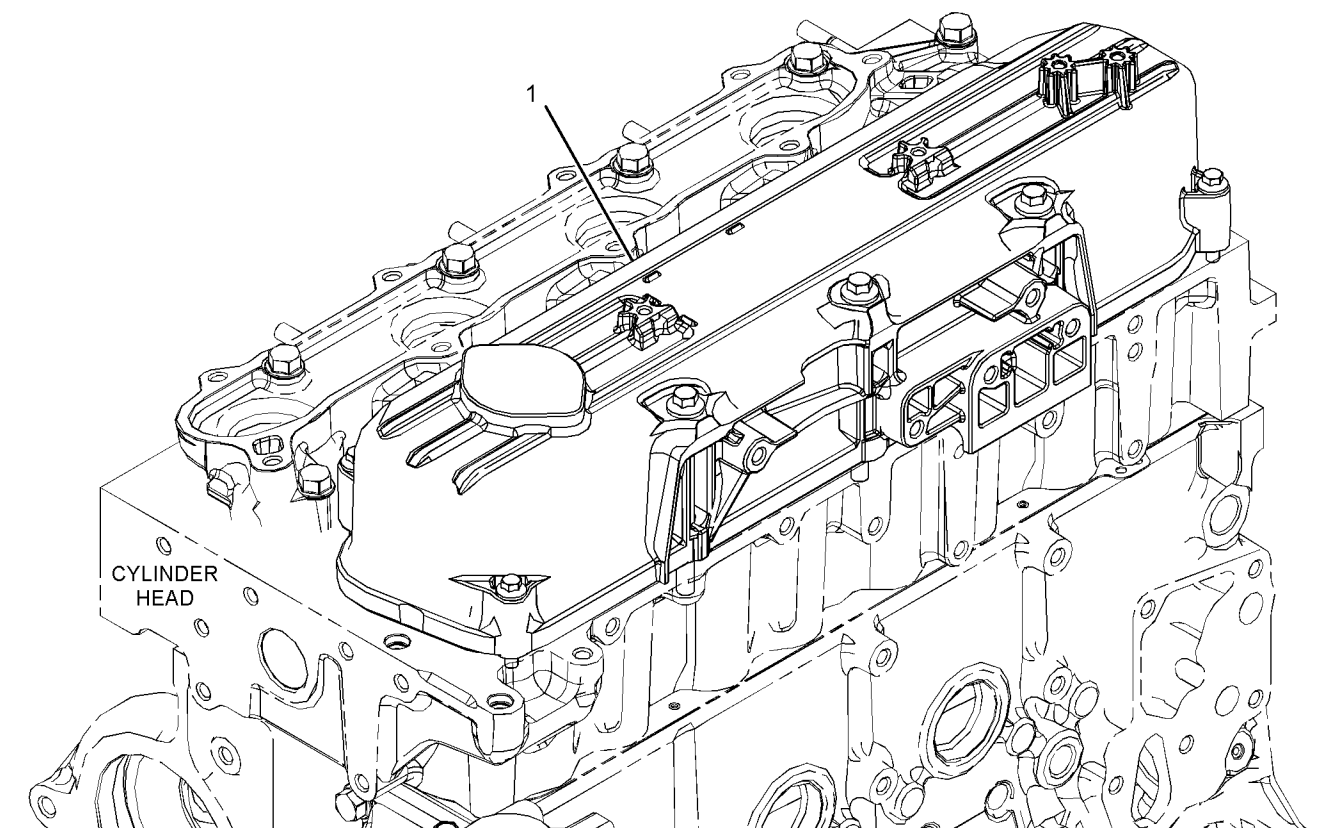
PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1107

i04892597

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	369-3796	1	COVER GP-VALVE MECHANISM						13

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g02878916

BASIC ENGINE

369-3796 COVER GP-VALVE MECHANISM

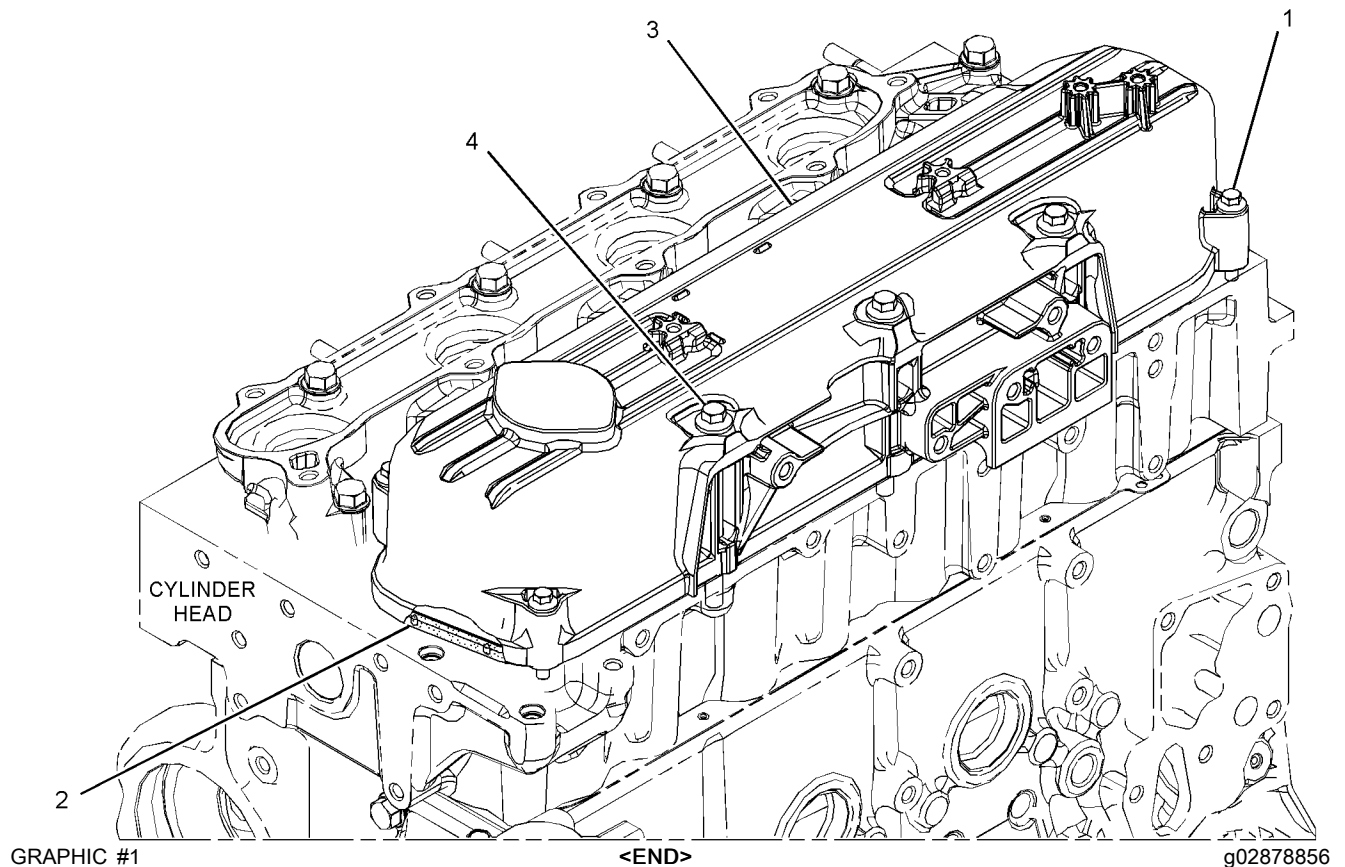
S/N: CNW1-UP

PART OF 350-1029 COVER GP-VALVE MECHANISM

SMCS-1107

i04895975

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	243-3811	7	BOLT-FLANGE HEAD						
	2	1	380-3696	1	GASKET						
	3	1	387-9359	1	COVER						
	4	1	6I-4709	3	BOLT (M8X1.25X100-MM)						



BASIC ENGINE

435-4004 COVER GP-VALVE MECHANISM

S/N: CNW1-UP

PART OF 392-4202, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1107

i05385190

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	440-0555	1	COVER AS						
<END>									

BASIC ENGINE

361-6356 CRANKSHAFT AS

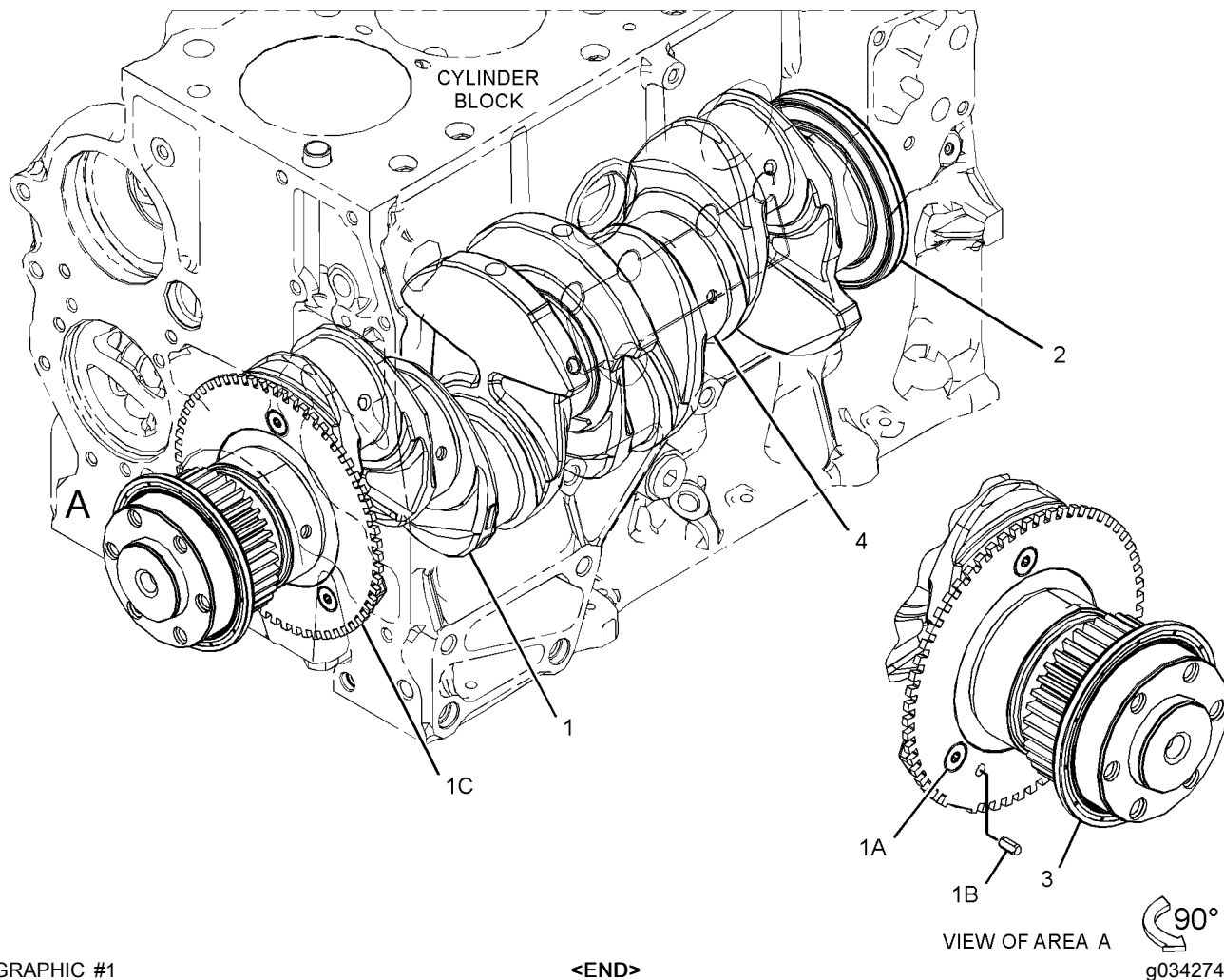
S/N: CNW1-UP

PART OF 350-3746 CRANKSHAFT GP

SMCS-1202

i05416764

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	381-3511	1	CRANKSHAFT AS						
	1A	1	381-3513	3	BOLT						
	1B	1	381-3514	1	DOWEL						
	1C	1	385-9059	1	GEAR						
	2	1	385-9063	1	SEAL						
	3	1	386-2086	1	SEAL						
	4	1	390-3066	1	BEARING SET-MAIN						



BASIC ENGINE

379-3011 CRANKSHAFT AS

S/N: CNW1-UP

PART OF 377-5455 CRANKSHAFT GP

SMCS-1202

i05378079

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	385-9063	1	SEAL						
	386-2086	1	SEAL						
	390-3066	1	BEARING SET-MAIN						
	390-3076	1	BEARING SET-MAIN						
	390-3077	1	BEARING SET-MAIN						
	399-1255	1	CRANKSHAFT AS						
	381-3513	3	BOLT						
	381-3514	1	DOWEL						
	385-9059	1	GEAR						
			<END>						

BASIC ENGINE

350-3746 CRANKSHAFT GP

S/N: CNW1-UP

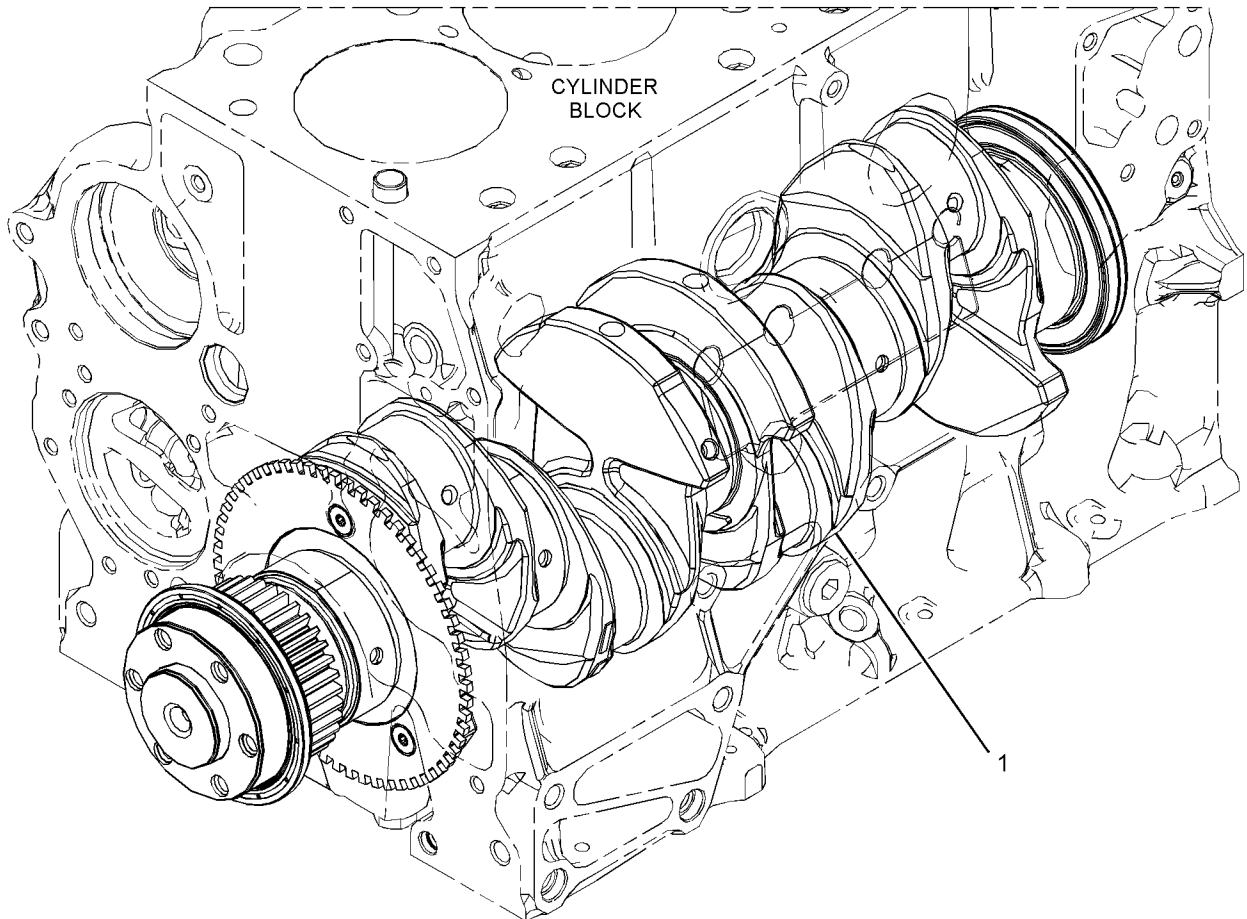
PART OF 392-5184, 392-6354 ENGINE AR-PRIMARY

SMCS-1202

i04892608

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	361-6356	1	CRANKSHAFT AS						15

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g02884156

BASIC ENGINE

377-5455 CRANKSHAFT GP

S/N: CNW1-UP

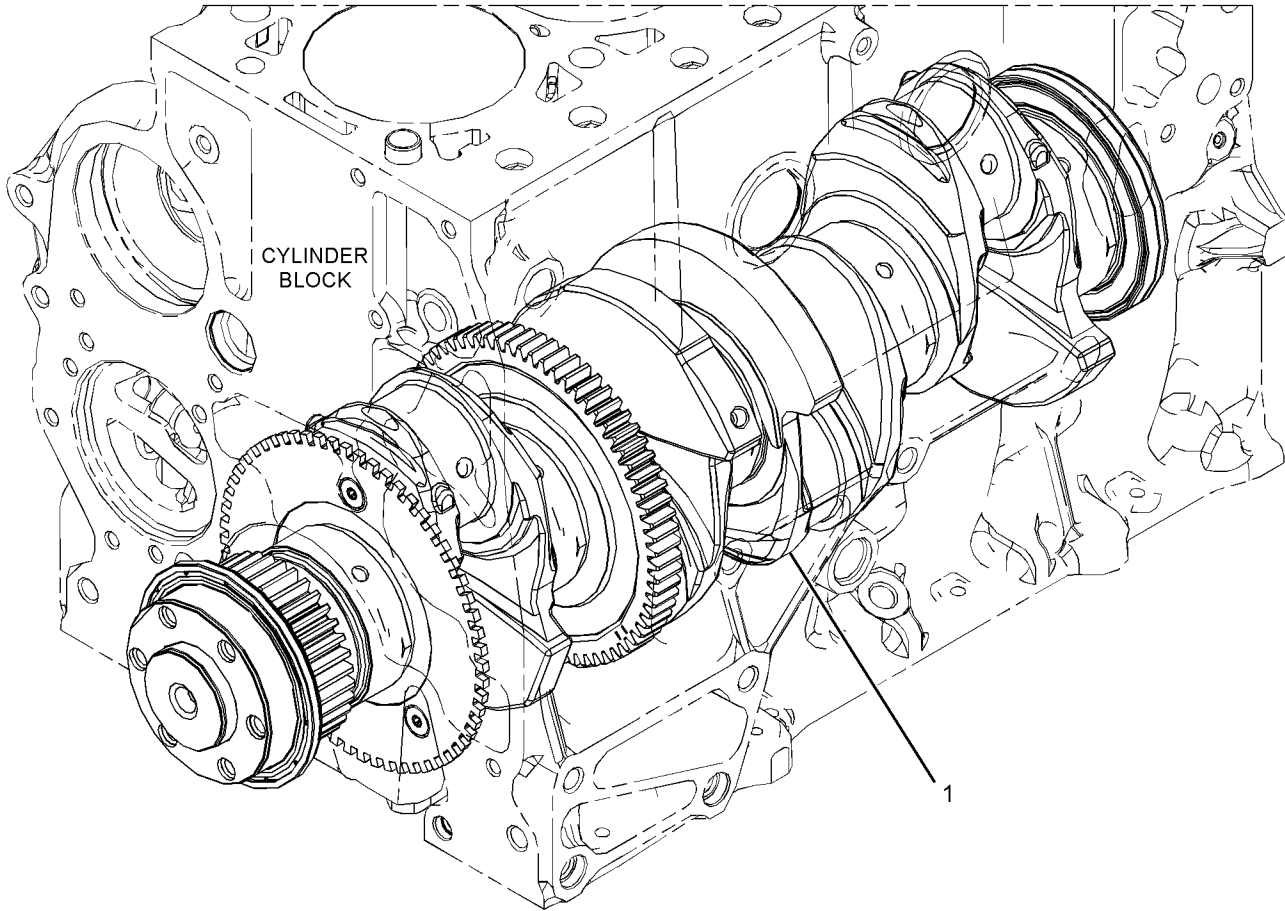
PART OF 392-4202, 392-6286 ENGINE AR-PRIMARY

SMCS-1202

i05378063

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	379-3011	1	CRANKSHAFT AS						16

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03098936

BASIC ENGINE

355-4099 CYLINDER BLOCK AS

S/N: CNW1-UP

PART OF 350-3745 CYLINDER BLOCK GP

SMCS-1201

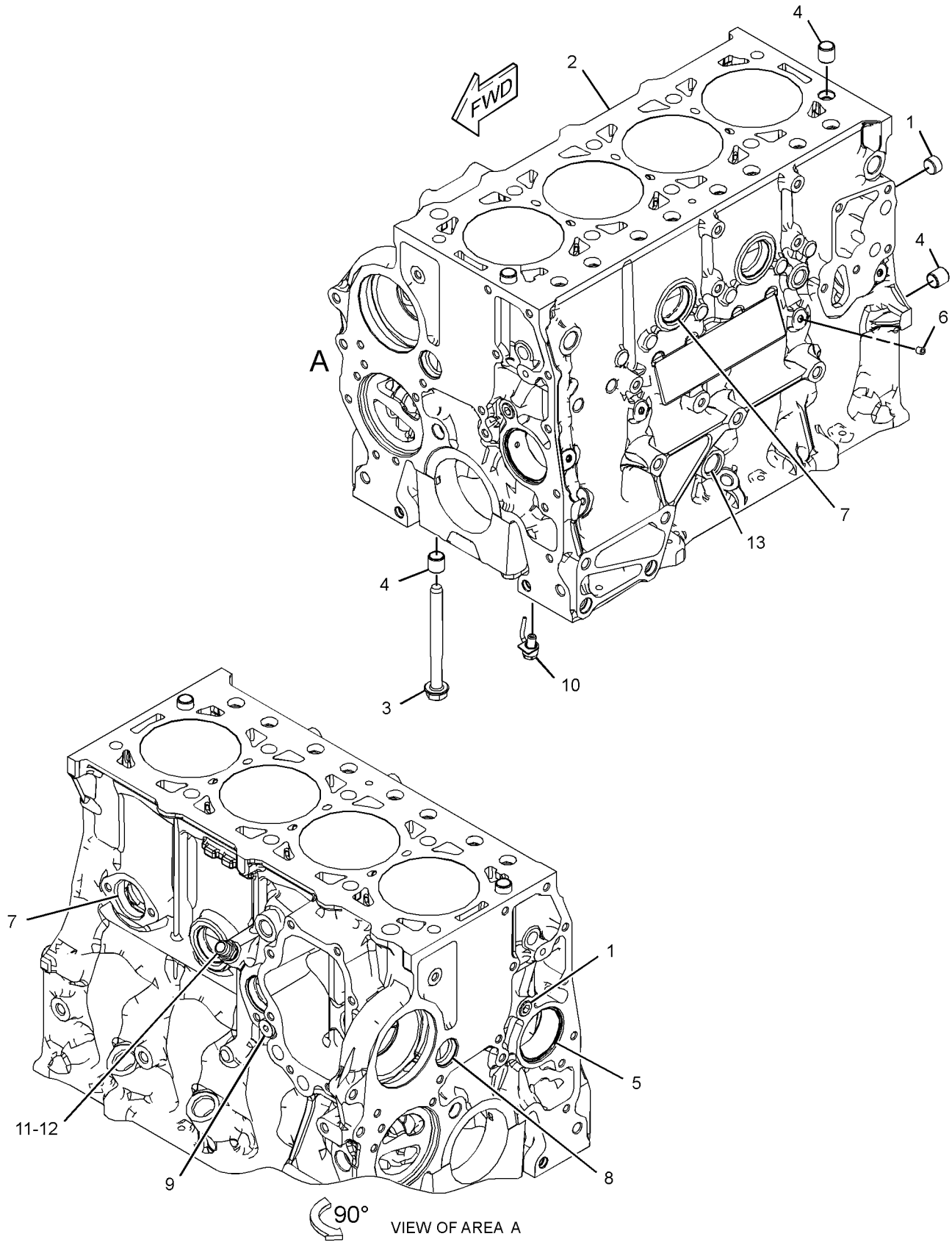
i04895994

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	379-3085	3	PLUG						
	2	1	379-3139	1	CYLINDER BLOCK AS						
	3	1	379-3141	10	BOLT						
	4	1	379-3142	14	DOWEL						
	5	1	379-3143	1	BEARING						
	6	1	379-3144	4	PLUG						
	7	1	379-3145	5	PLUG						
	8	1	379-3146	1	PLUG						
	9	1	379-3147	1	PLUG						
	10	1	379-3158	4	NOZZLE AS (PISTON COOLING)						
	11	1	379-3161	1	BOLT						
	12	1	379-3163	1	WASHER						
	13	1	379-3164	1	PLUG						

BASIC ENGINE

355-4099 CYLINDER BLOCK AS (contd.)

i04895994



GRAPHIC #1

VIEW OF AREA A

<END>

g02888261

BASIC ENGINE

396-4344 CYLINDER BLOCK AS

S/N: CNW1-UP

PART OF 382-6634 CYLINDER BLOCK GP

SMCS-1201

i05386665

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	379-3142	4	DOWEL						
	379-3158	4	NOZZLE AS (PISTON COOLING)						
	379-3161	1	BOLT						
	379-3163	1	WASHER						
	379-3164	1	PLUG						
Y	433-6935	1	BLOCK AS						21
Y - SEPARATE ILLUSTRATION									

<END>

433-6935 BLOCK AS

S/N: CNW1-UP

PART OF 396-4344 CYLINDER BLOCK AS

SMCS-1201

i05386687

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	379-3085	3	PLUG						
	379-3141	10	BOLT						
	379-3142	10	DOWEL						
	379-3143	1	BEARING						
	379-3144	4	PLUG						
	379-3145	5	PLUG						
	379-3146	1	PLUG						
	379-3147	1	PLUG						
	434-6246	1	PLUG						
	434-6247	1	WASHER						
	433-6939	1	BLOCK						
	434-5715	4	CAP						
	434-5725	1	CAP						

<END>

BASIC ENGINE

350-3745 CYLINDER BLOCK GP

S/N: CNW1-UP

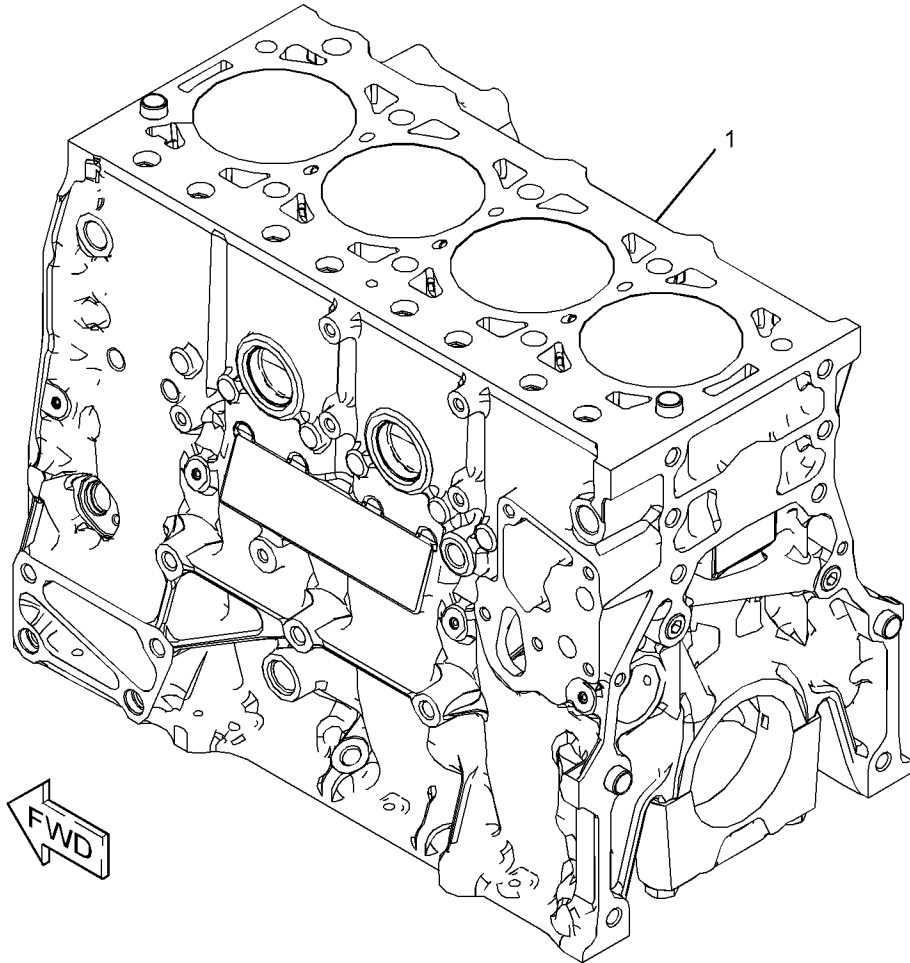
PART OF 392-5184, 392-6354 ENGINE AR-PRIMARY

SMCS-1201

i04892605

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	355-4099	1	CYLINDER BLOCK AS						19

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g02885556

BASIC ENGINE

382-6634 CYLINDER BLOCK GP

S/N: CNW1-UP

PART OF 392-4202, 392-6286 ENGINE AR-PRIMARY

SMCS-1201

i05386641

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	396-4344	1	CYLINDER BLOCK AS						21

Y - SEPARATE ILLUSTRATION

<END>

BASIC ENGINE

355-3460 CYLINDER HEAD AS

S/N: CNW1-UP

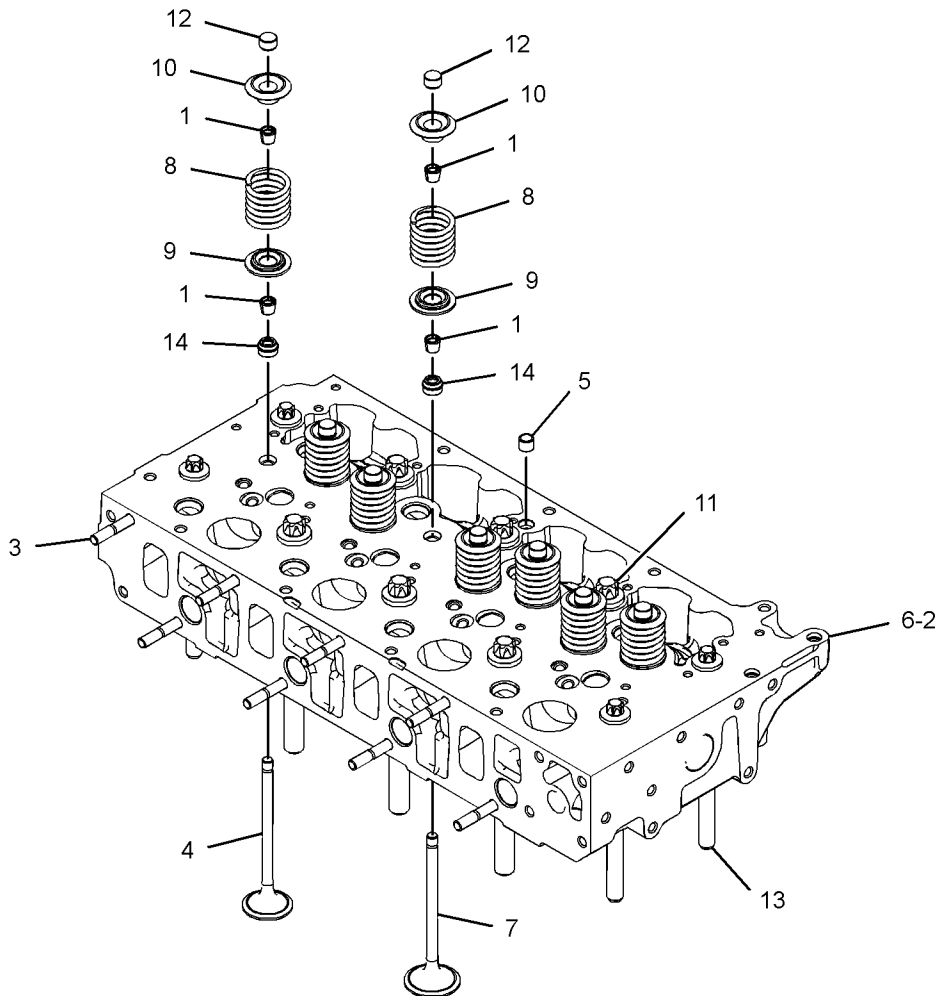
PART OF 350-3751 CYLINDER HEAD GP

SMCS-1100, 1101

i05416772

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	394-7446	16	COLLET						
	2	1	393-0885	1	GASKET						
	3	1	390-0319	8	STUD						
	4	1	381-3507	4	VALVE (EXHAUST)						
	5	1	381-3510	1	DOWEL						
Y	6	1	383-0788	1	CYLINDER HEAD AS						25
	7	1	383-0789	4	VALVE (INLET)						
	8	1	383-0790	8	SPRING						
	9	1	383-0796	8	CAP						
	10	1	383-0798	8	CAP						
	11	1	383-0799	6	STUD						
	12	1	383-0800	8	COLLET						
	13	1	387-7747	4	STUD						
	14	1	387-9128	8	SEAL						

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03443266

BASIC ENGINE

383-0788 CYLINDER HEAD AS

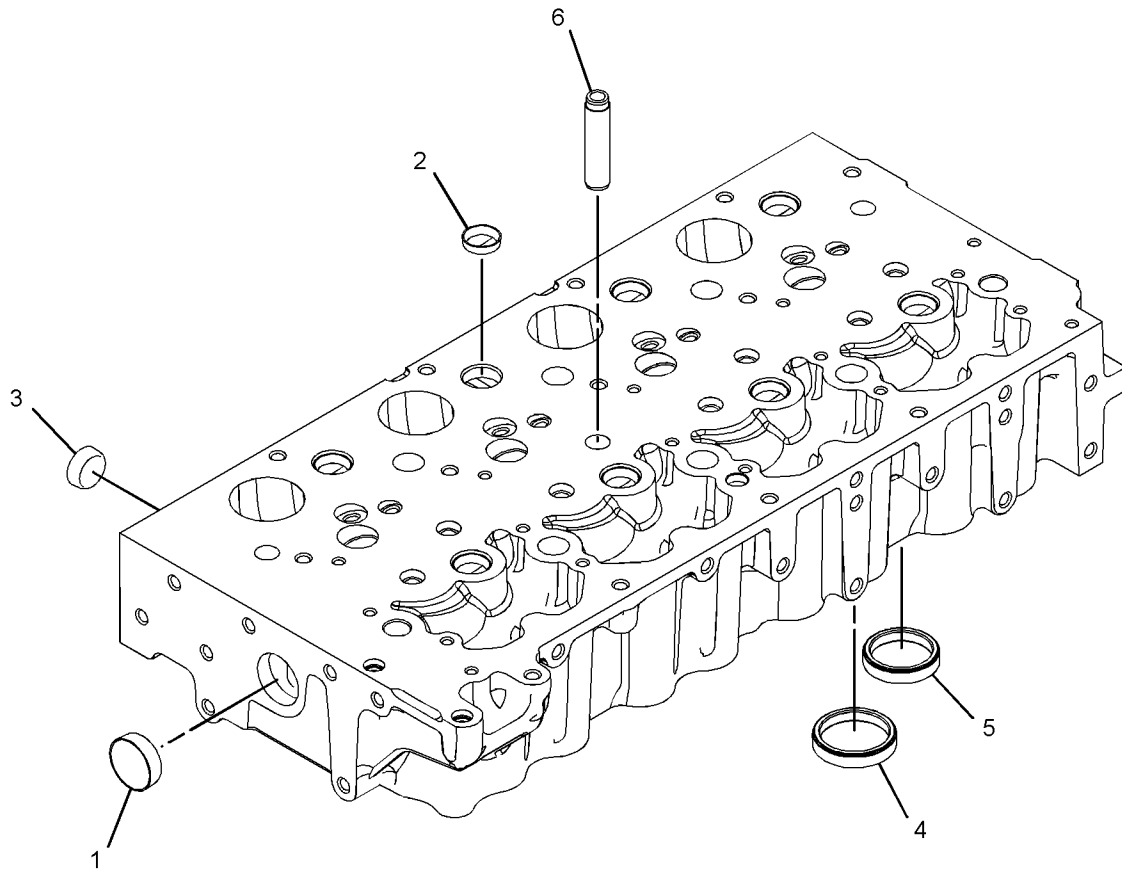
S/N: CNW1-UP

PART OF 355-3460 CYLINDER HEAD AS

SMCS-1100, 1101

i05392693

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	379-3146	1	PLUG						
	2	1	381-3504	8	PLUG						
	3	1	381-3506	4	PLUG						
	4	1	388-6962	4	SEAT						
	5	1	388-6963	4	SEAT						
	6	1	390-3179	8	GUIDE						



GRAPHIC #1

<END>

g03438596

BASIC ENGINE

350-3751 CYLINDER HEAD GP

S/N: CNW1-UP

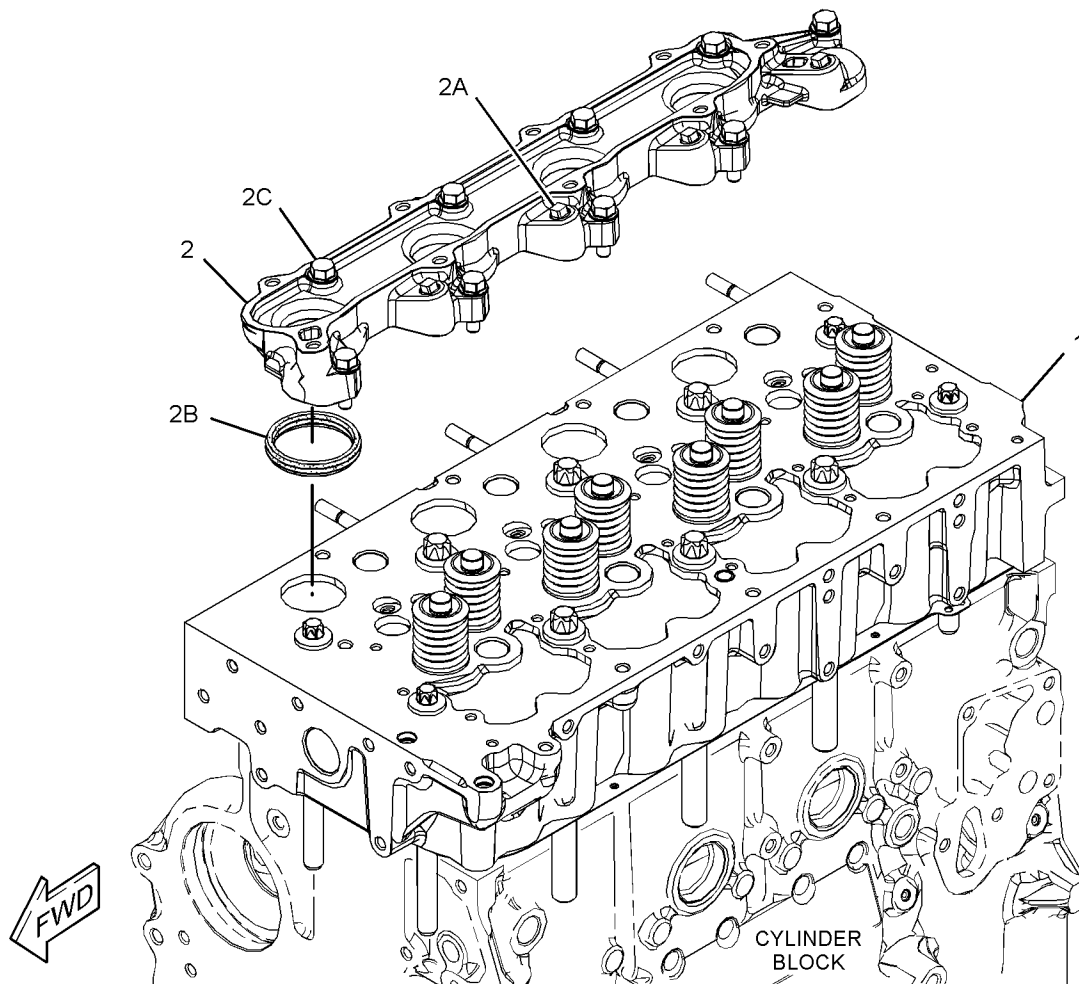
PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1100

i04892612

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	355-3460	1	CYLINDER HEAD AS	24
	2	1	355-3461	1	ADAPTER GP-CYLINDER HEAD	
	2A	1	379-3656	4	PLUG	
	2B	1	379-3657	4	GASKET	
	2C	1	389-1920	9	BOLT	
		1	379-3655	1	ADAPTER AS-PLATE	

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g02884236

BASIC ENGINE

350-0652 DRIVE GP-FAN

S/N: CNW1-UP

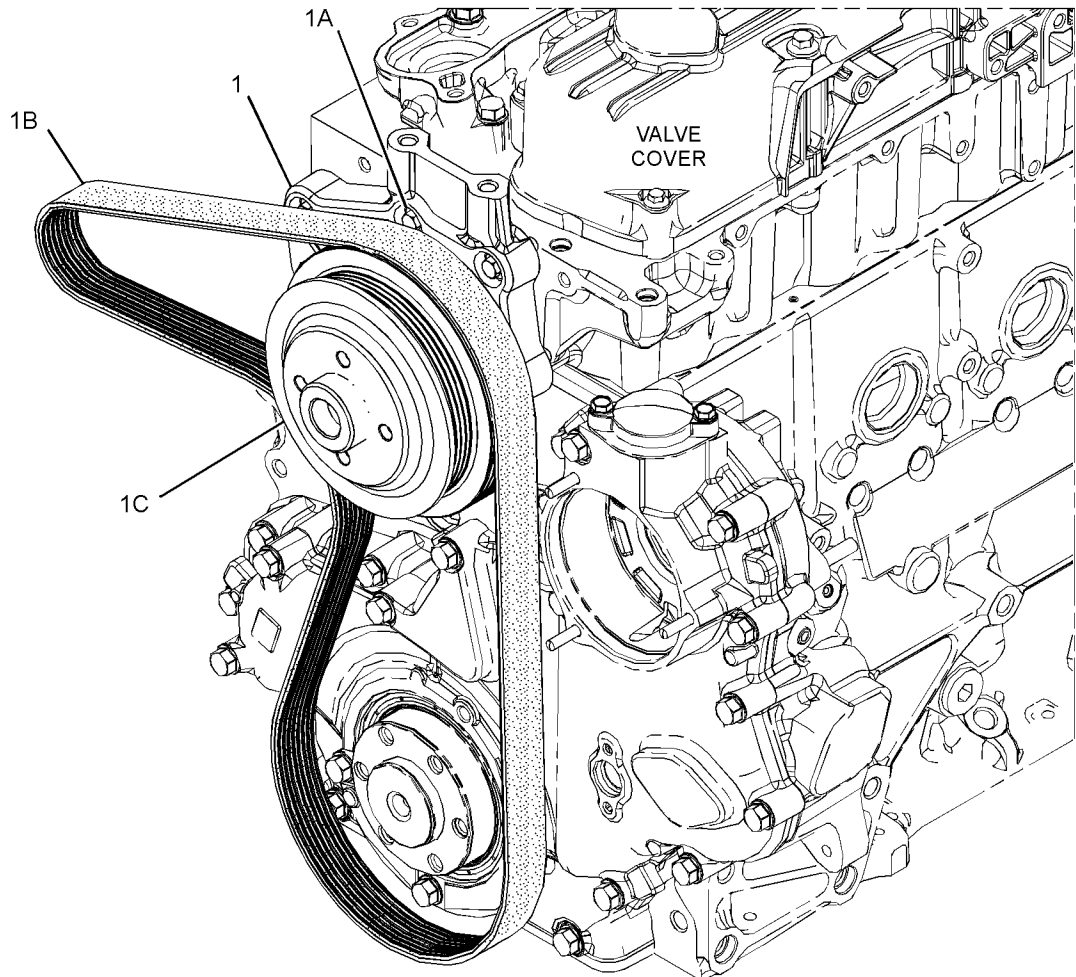
PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1359

i04894810

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	374-6264	1	DRIVE AS-FAN						
M	1A	1	6I-0260	5	BOLT (M8X1.25X25-MM)						
	1B	1	378-2561	1	BELT-SERPENTINE						
	1C	1	378-2595	1	PULLEY (8-GROOVE)						
		1	388-2510	1	SUPPORT AS-FAN						

M - METRIC PART



GRAPHIC #1

<END>

g02879058

BASIC ENGINE

350-1474 EXTENSION GP-FAN

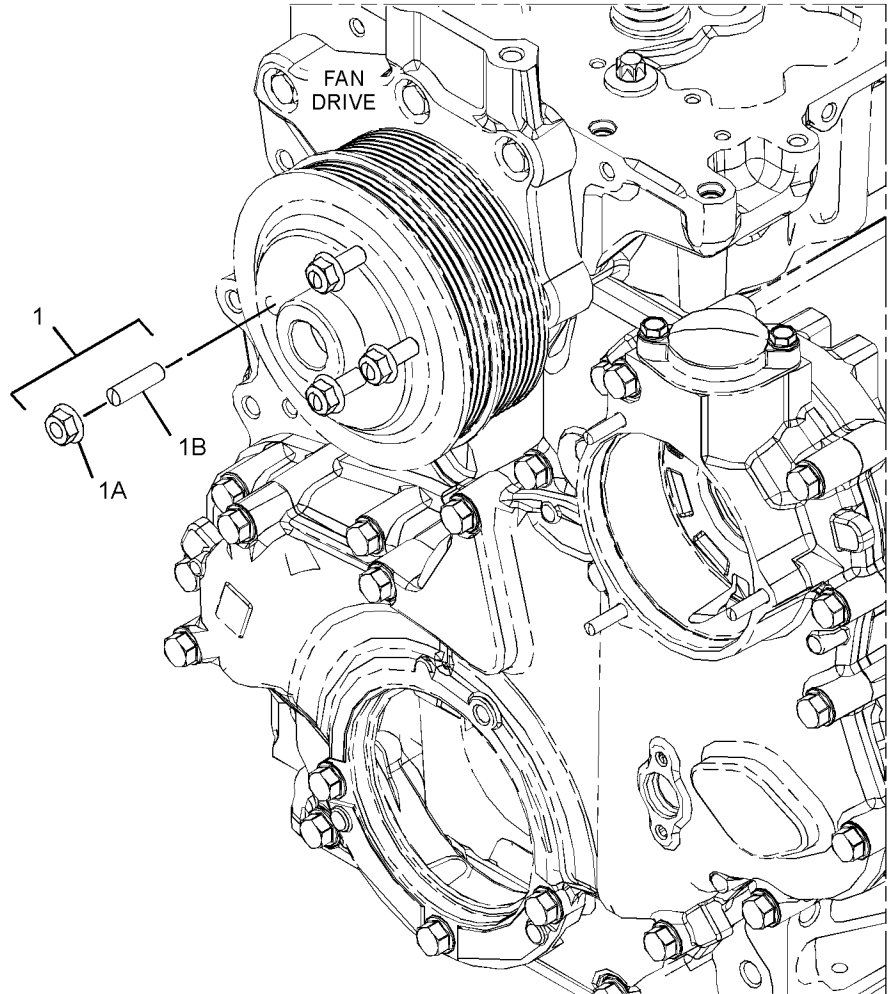
S/N: CNW1-UP

PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1359

i04894630

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	392-0441	1	EXTENSION GP-FAN						
	1A	1	6I-0291	4	NUT (M8X1.25-THD)						
	1B	1	387-7726	4	STUD						



GRAPHIC #1

<END>

g02885576

BASIC ENGINE

350-1106 FASTENER GP-ENGINE

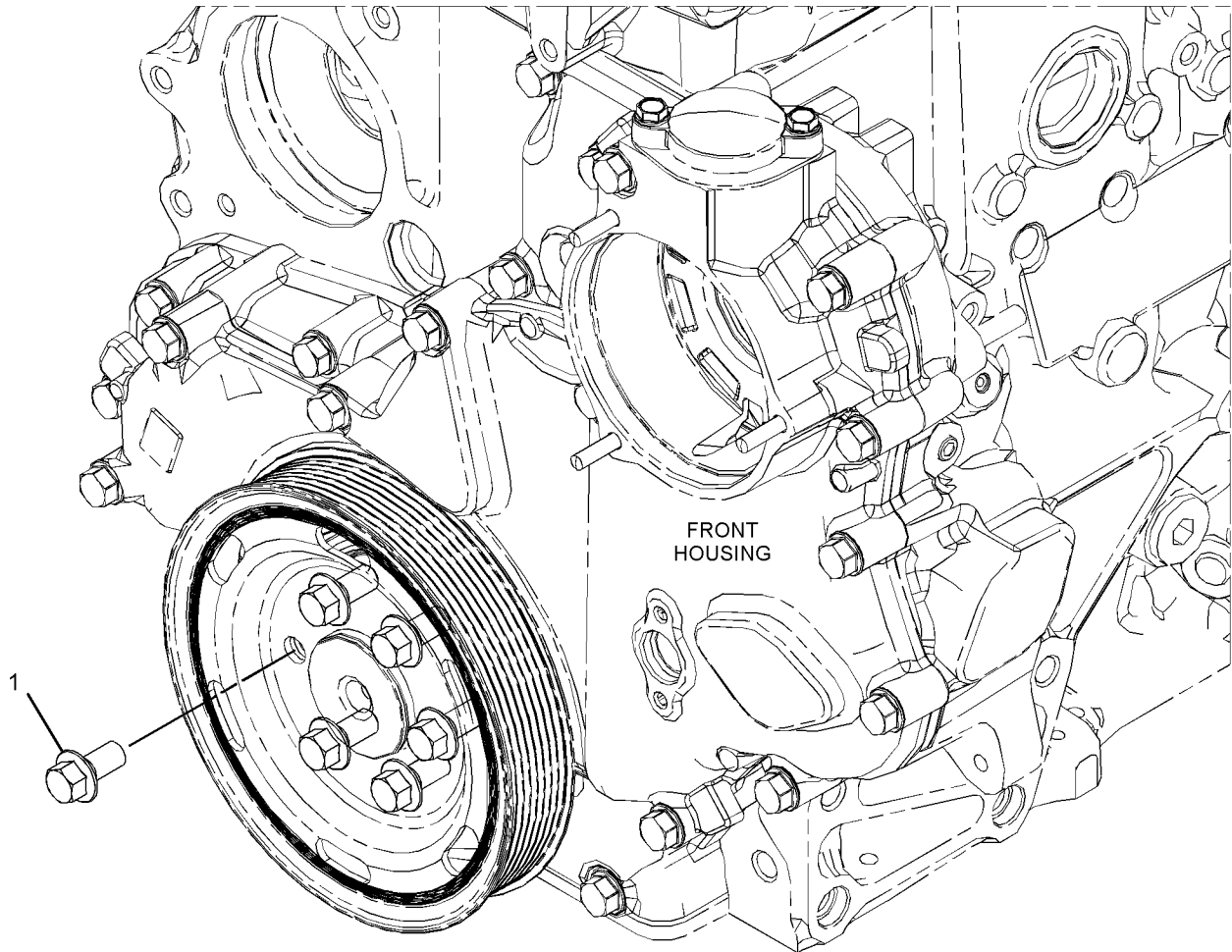
S/N: CNW1-UP

PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1000

i04905427

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	372-4966	1	FASTENER AS						
		1	391-5559	6	BOLT						



GRAPHIC #1

<END>

g02878958

BASIC ENGINE

375-5785 FLYWHEEL AS

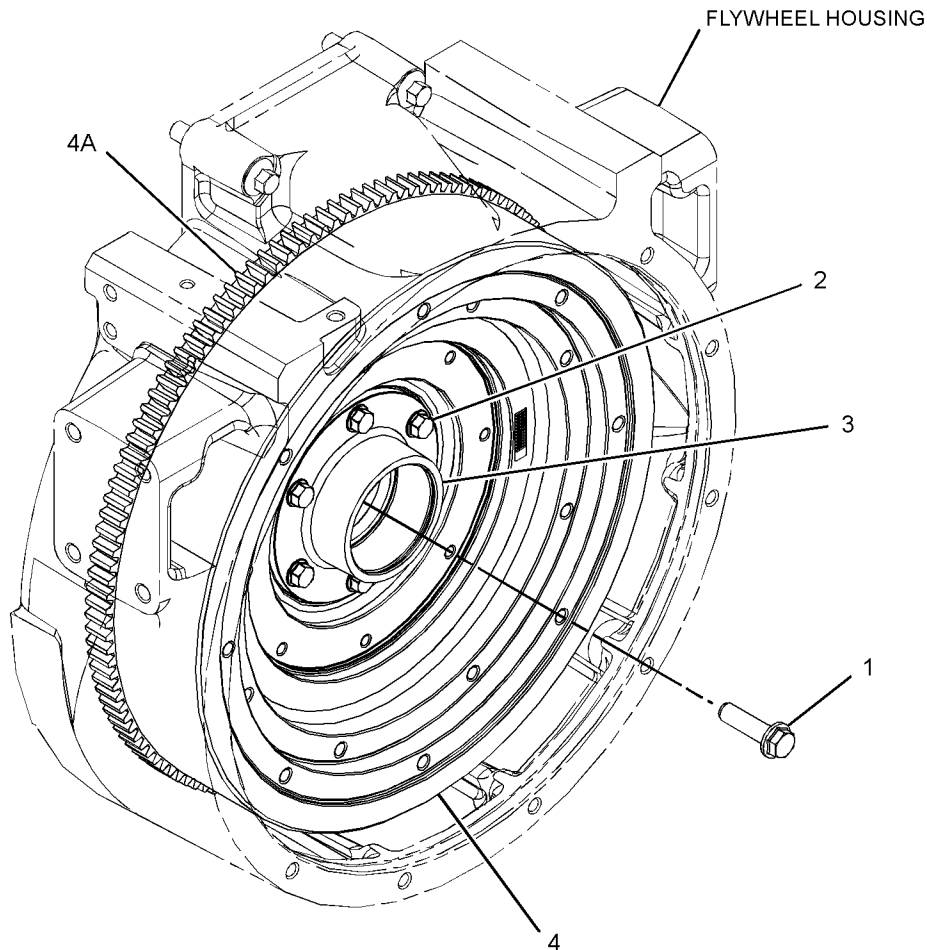
S/N: CNW1-UP

PART OF 349-9634 FLYWHEEL GP

SMCS-1156

i05298236

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	388-1895	8	SCREW						
	2	1	389-1863	6	BOLT						
	3	1	423-0061	1	SPACER						
	4	1	424-9673	1	FLYWHEEL AS						
	4A	1	033-7687	1	RING-STARTING MOTOR (126-TEETH)						



g03367575

BASIC ENGINE

349-9634 FLYWHEEL GP

S/N: CNW1-UP

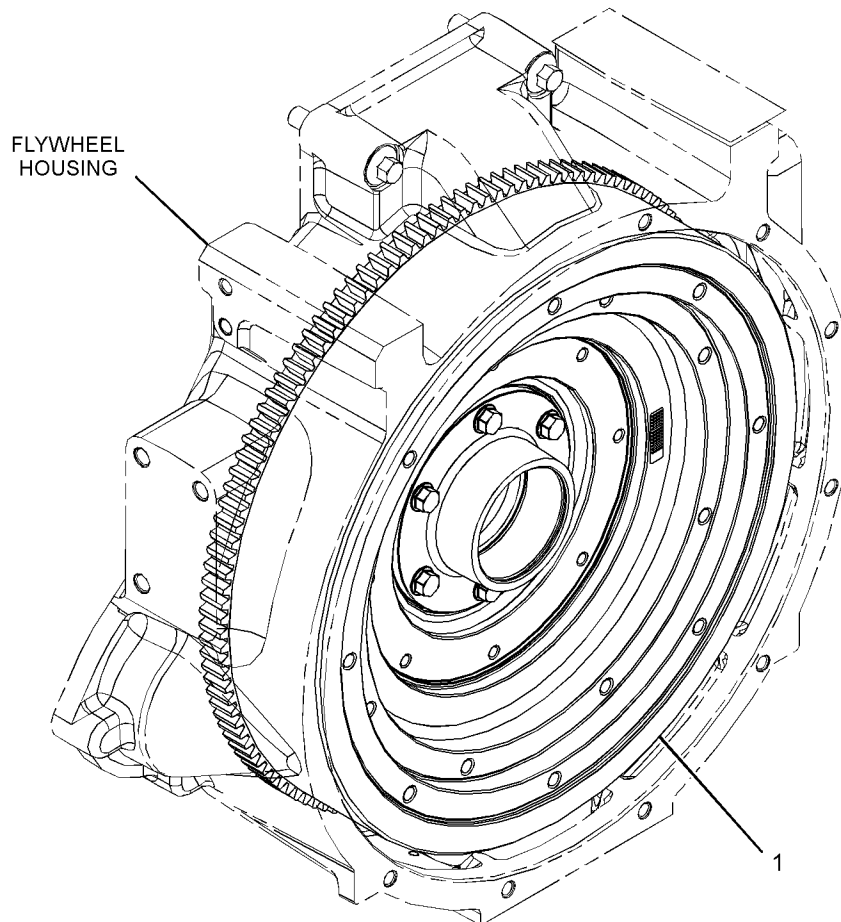
PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1156

i05287846

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	375-5785	1	FLYWHEEL AS						30

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03367226

BASIC ENGINE

381-3554 HOUSING GP-FLYWHEEL

S/N: CNW1-UP

PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1157

i05385178

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	382-2669	1	HOUSING AS-FLYWHEEL	32
Y - SEPARATE ILLUSTRATION				

<END>

382-2669 HOUSING AS-FLYWHEEL

S/N: CNW1-UP

PART OF 381-3554 HOUSING GP-FLYWHEEL

SMCS-1157

i05385182

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
M	208-9284	2	BOLT-FLANGE HEAD (M8X1.25X35-MM)	
	291-4146	4	BOLT	
	331-7316	2	BOLT	
	383-1767	1	HOUSING	
	385-1649	2	BOLT	
M - METRIC PART				

<END>

BASIC ENGINE

377-6012 HOUSING GP-FRONT

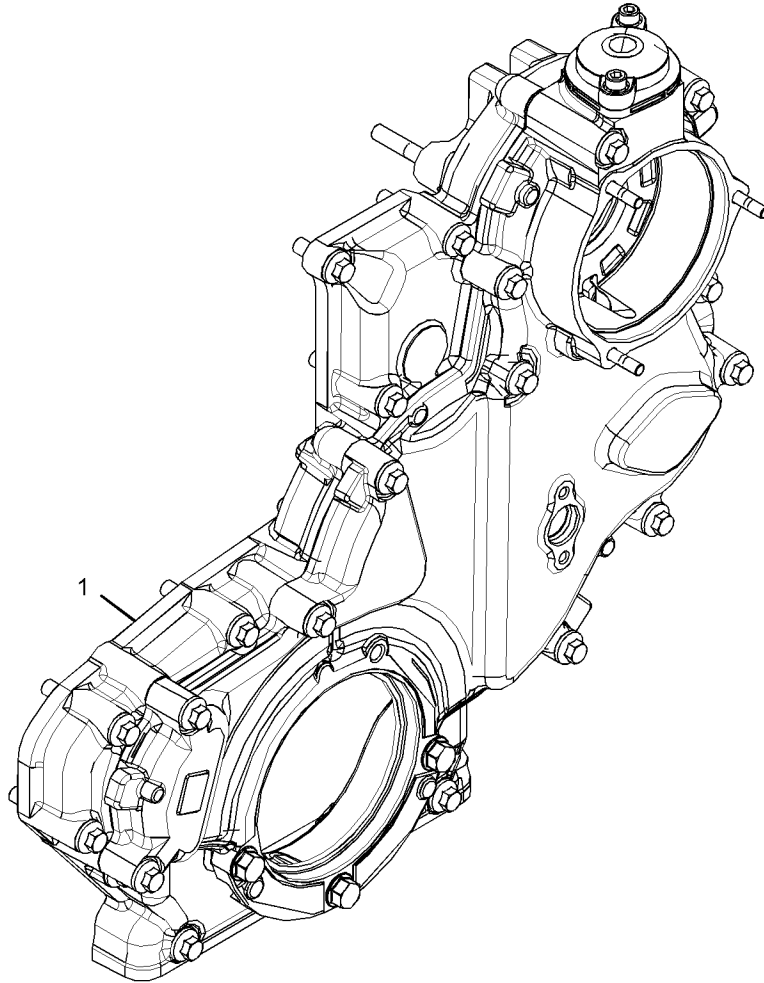
S/N: CNW1-UP

PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1151, 1162, 1206

i04892644

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	379-3010	1	HOUSING GP-FRONT	34
Y - SEPARATE ILLUSTRATION						



GRAPHIC #1

<END>

g02988003

BASIC ENGINE

379-3010 HOUSING GP-FRONT

S/N: CNW1-UP

PART OF 377-6012 HOUSING GP-FRONT

SMCS-1151, 1162, 1206

i04896882

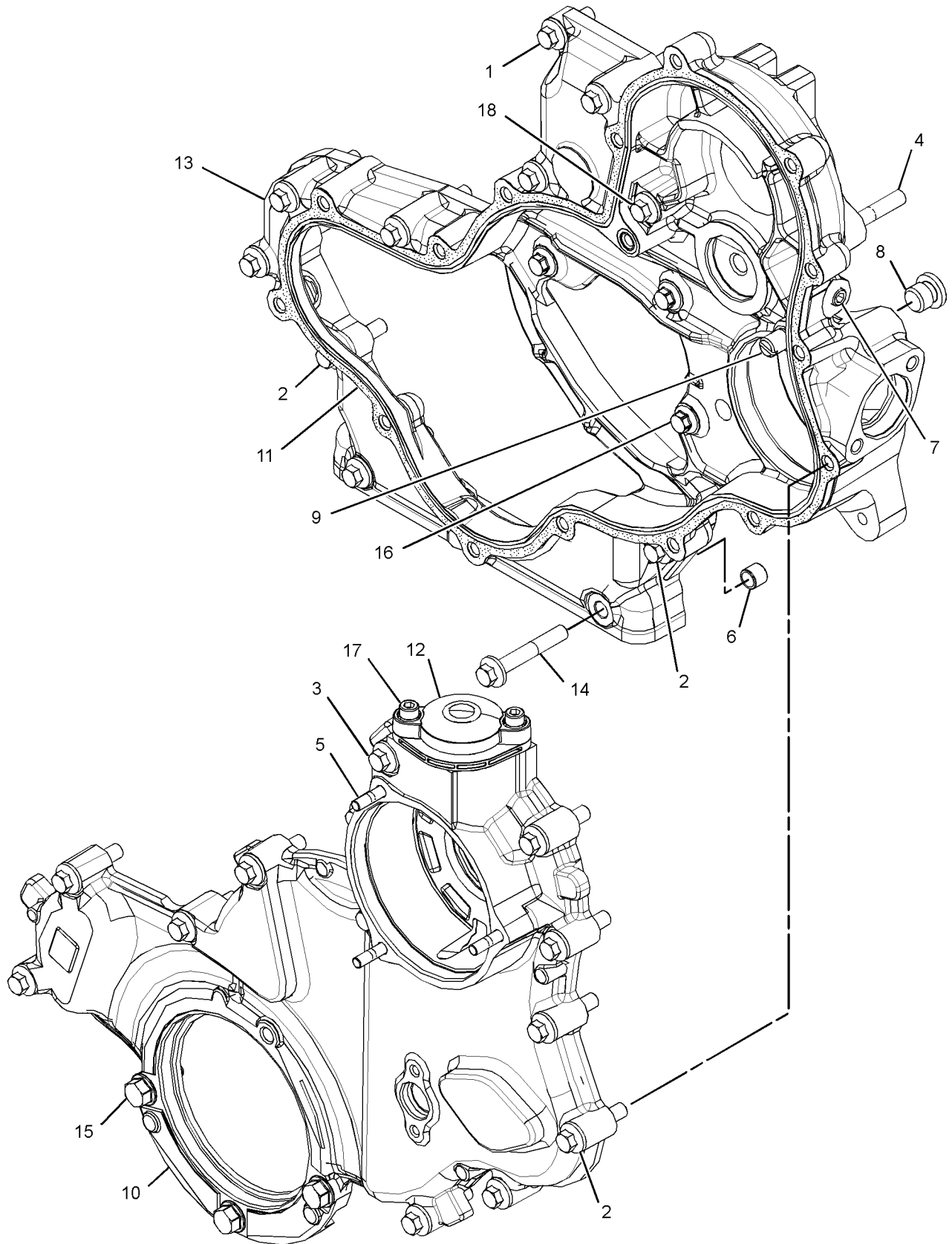
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0260	1	BOLT (M8X1.25X25-MM)						
M	2	1	101-3895	14	BOLT (M8X1.25X35-MM)						
	3	1	101-7551	1	BOLT						
	4	1	205-3686	3	STUD						
	5	1	331-6839	3	STUD						
	6	1	381-3510	2	DOWEL						
	7	1	386-1921	1	PLUG						
	8	1	386-1922	1	PLUG						
	9	1	386-1983	1	NOZZLE						
	10	1	386-1984	1	COVER						
	11	1	386-2777	1	GASKET						
	12	1	386-2778	1	BREATHING AS (CRANKCASE)						
	13	1	387-9137	1	HOUSING AS-FRONT						
	14	1	388-2068	7	BOLT						
	15	1	389-2868	3	BOLT						
	16	1	389-2872	3	SCREW						
	17	1	390-2405	2	SCREW						
	18	1	6I-1090	1	BOLT (M8X1.25X40-MM)						

M - METRIC PART

BASIC ENGINE

379-3010 HOUSING GP-FRONT (contd.)

i04896882



GRAPHIC #1

<END>

g02988038

BASIC ENGINE

350-1826 LIFTING GP-ENGINE

S/N: CNW1-UP

ENGINE

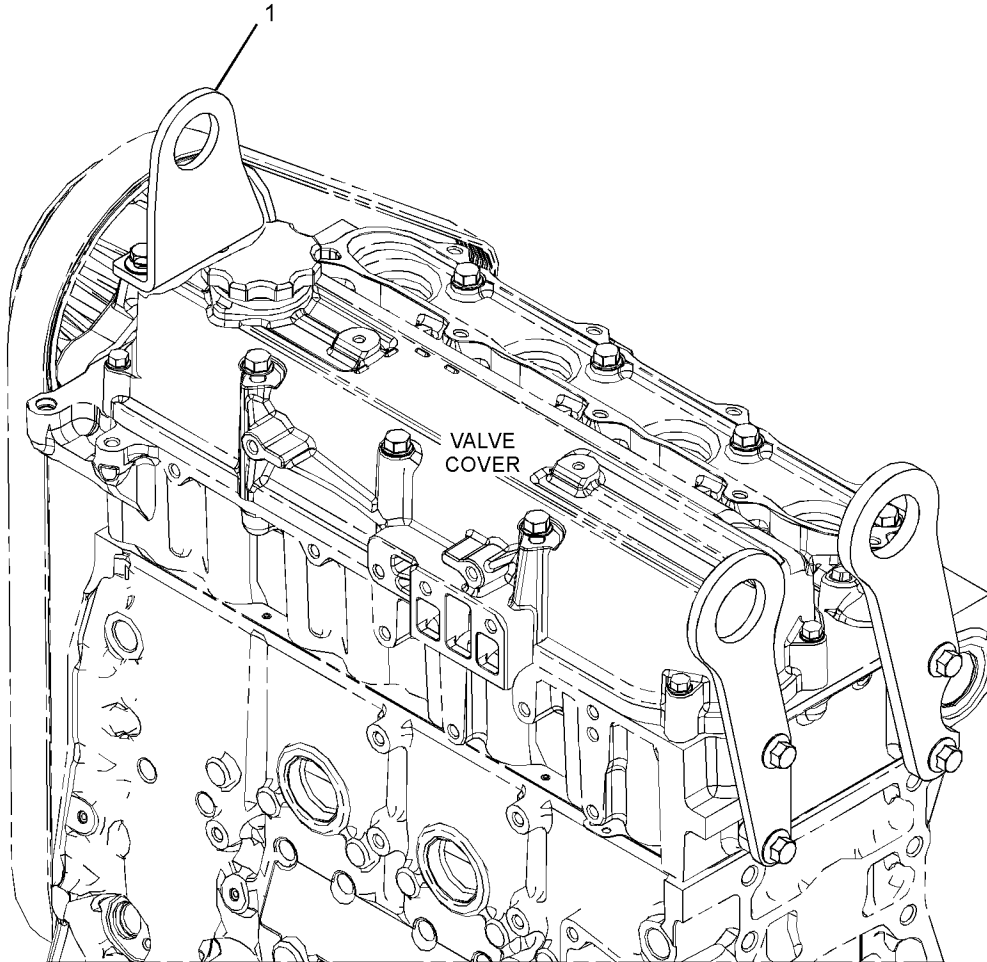
PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1122

i04892603

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	362-1026	1	LIFTING GP-ENGINE						37

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g02876337

BASIC ENGINE

362-1026 LIFTING GP-ENGINE

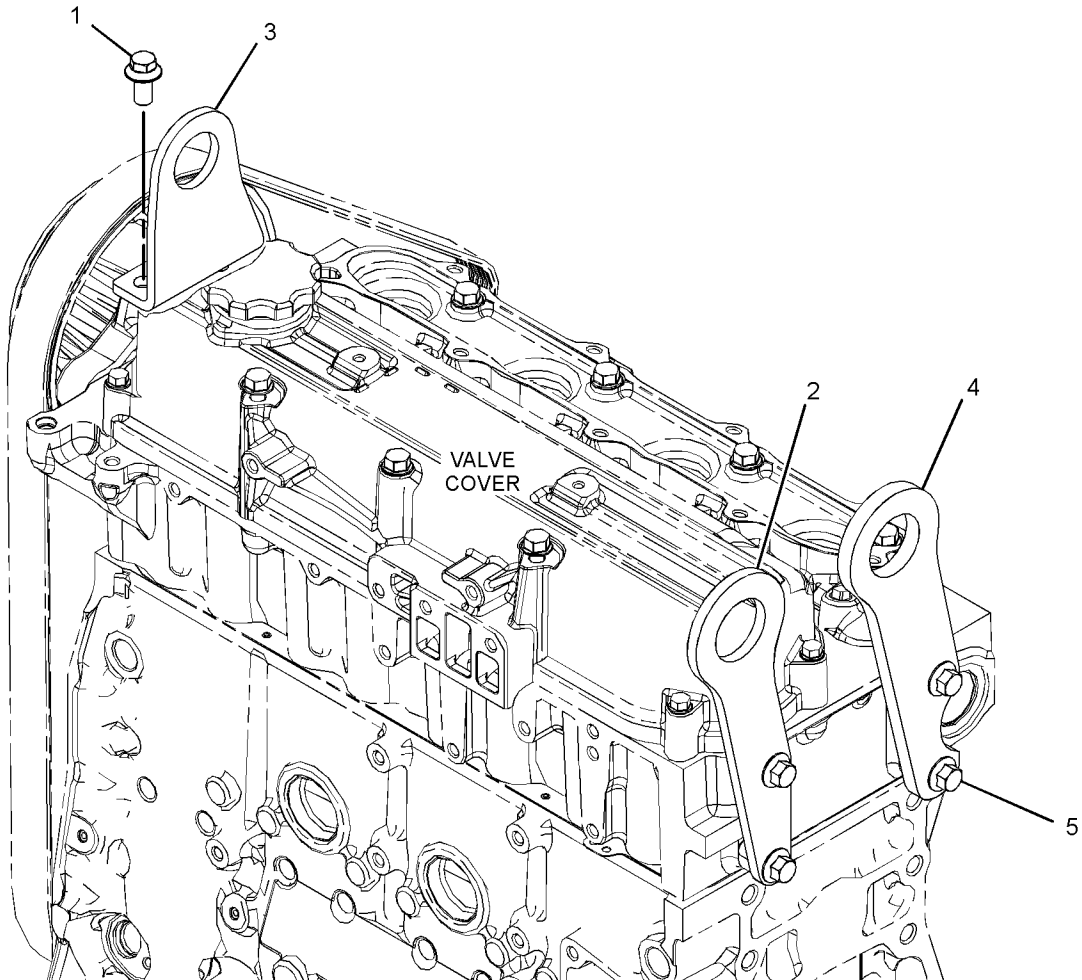
S/N: CNW1-UP

PART OF 350-1826 LIFTING GP-ENGINE

SMCS-1122

i04896095

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	387-9161	1	BRACKET						
	3	1	387-9162	1	BRACKET						
	4	1	387-9163	1	BRACKET						
	5	1	390-5138	4	BOLT - FLANGE HEAD						
M - METRIC PART											



GRAPHIC #1

<END>

g02876318

BASIC ENGINE

378-7708 MOUNTING GP-ENGINE

S/N: CJ31-UP

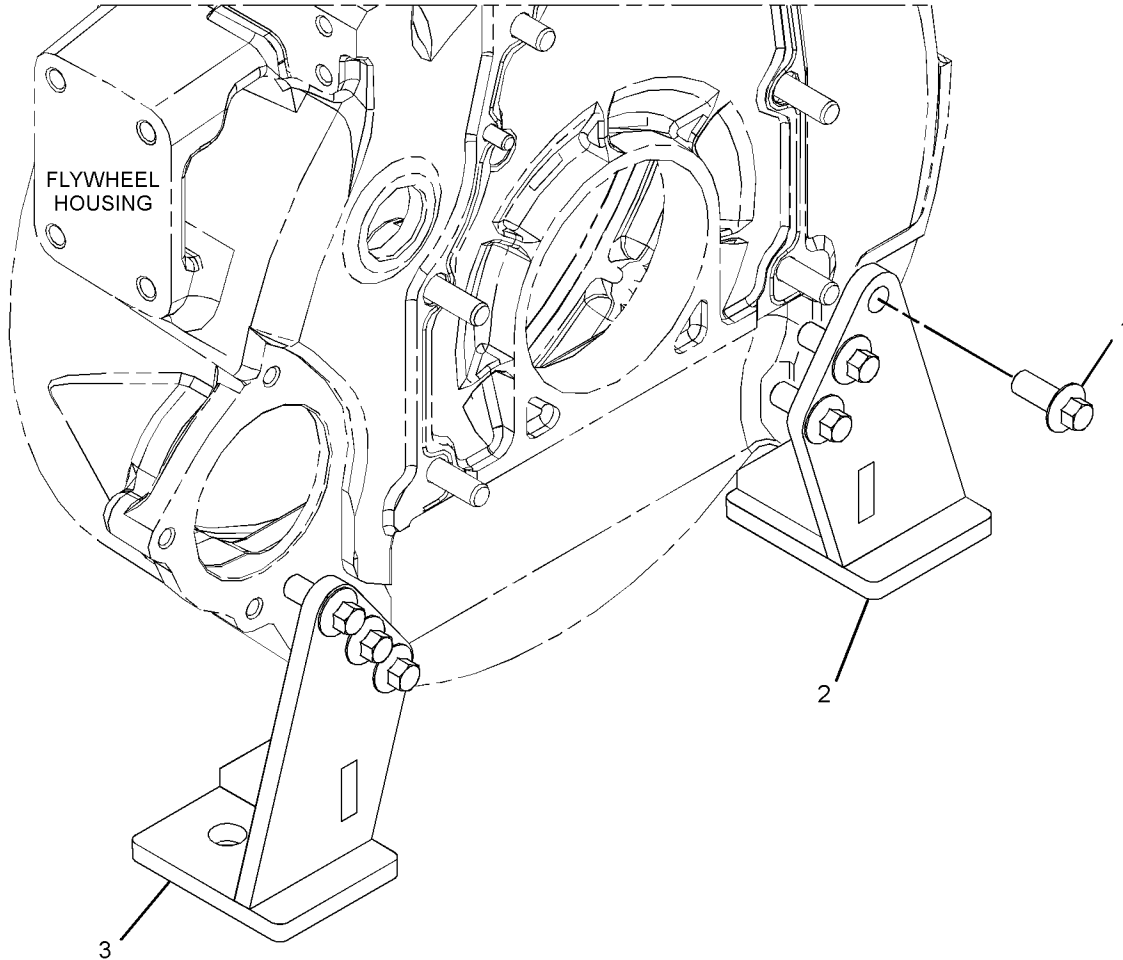
PART OF 393-3428, 393-3429, 393-3430, 393-3431 ENGINE AR-PRIMARY

SMCS-1152, 1153, 1154

i04904995

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	6	BOLT (M12X1.75X30-MM)						
	2	1	377-7094	1	BRACKET AS						
	3	1	377-9849	1	BRACKET AS						

M - METRIC PART



GRAPHIC #1

<END>

g03066500

BASIC ENGINE

354-8644 PAN AS-OIL

S/N: CNW1-UP

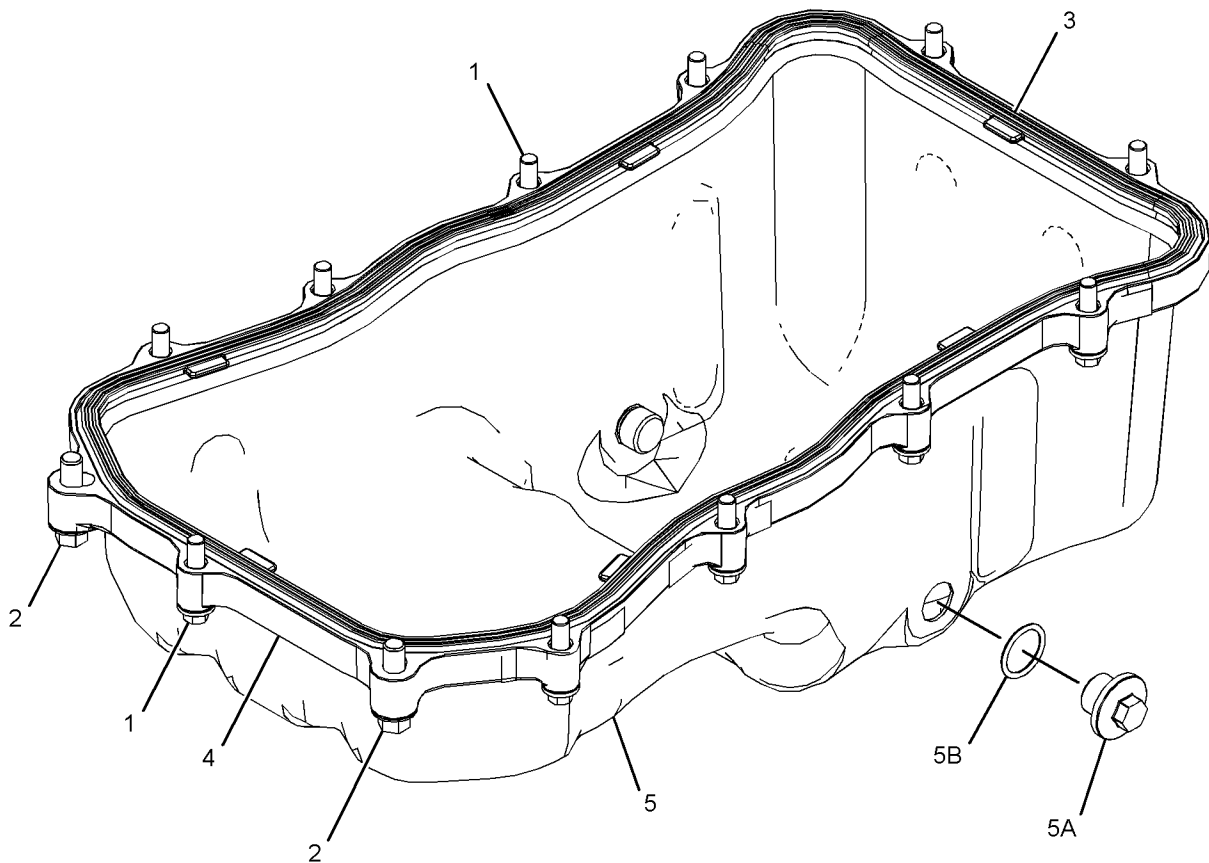
PART OF 350-0660 PAN GP-OIL

SMCS-1302

i05247690

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	11	BOLT (M8X1.25X35-MM)						
	2	1	111-0859	2	BOLT (M10X1.5X35-MM)						
	3	1	363-9725	1	GASKET -SUMP						
	4	1	379-3111	1	SPACER						
	5	1	386-2776	1	PAN AS-OIL						
	5A	1	386-1920	2	PLUG						
	5B	1	390-3101	2	SEAL						

M - METRIC PART



GRAPHIC #1

<END>

g03345374

BASIC ENGINE

350-0660 PAN GP-OIL

S/N: CNW1-UP

PART OF 392-5184, 392-6354 ENGINE AR-PRIMARY

SMCS-1302

i05383068

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6	
Y	354-8644	1	PAN AS-OIL						39
	363-1879	1	STRAINER AS-OIL						
	387-9123	1	SCREW						
	388-1188	1	STRAINER AS						
	387-7711	1	SEAL						
	391-5559	2	BOLT						
Y - SEPARATE ILLUSTRATION									
<END>									

BASIC ENGINE

361-7866 PAN GP-OIL

S/N: CNW1-UP

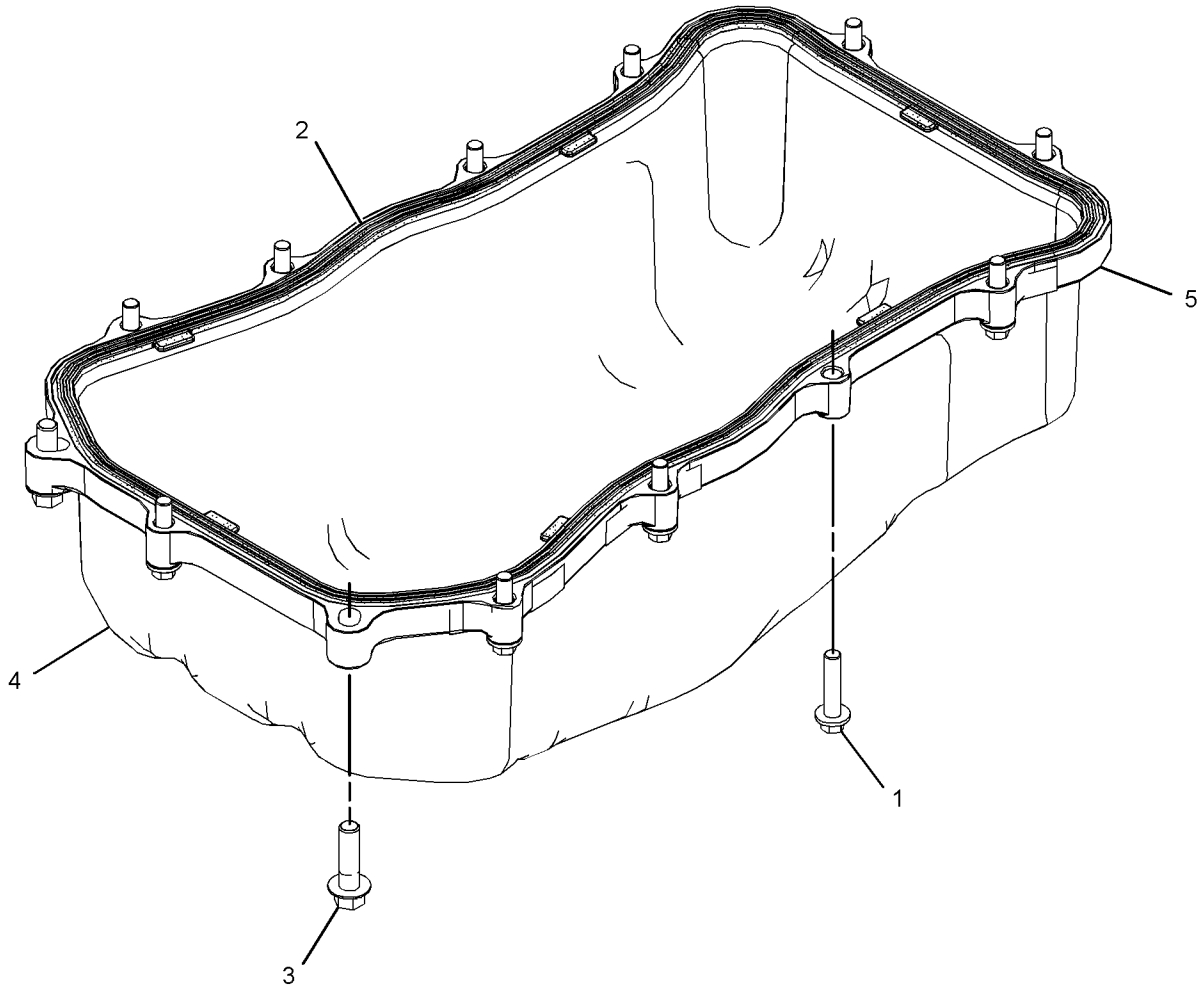
PART OF 382-6589 PAN GP-OIL

SMCS-1302

i05387608

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	11	BOLT (M8X1.25X35-MM)						
	2	1	363-9725	1	GASKET -SUMP						
	3	1	111-0859	2	BOLT (M10X1.5X35-MM)						
	4	1	379-3084	1	PAN AS-OIL						
	5	1	379-3111	1	SPACER						

M - METRIC PART



GRAPHIC #1

<END>

g03412102

BASIC ENGINE

382-6589 PAN GP-OIL

S/N: CNW1-UP

PART OF 392-4202, 392-6286 ENGINE AR-PRIMARY

SMCS-1302

i05387403

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	361-7866	1	PAN GP-OIL	41
Y	396-4354	1	STRAINER AS-OIL	59
Y - SEPARATE ILLUSTRATION				

<END>

382-9628 PAN GP-OIL

S/N: CNW1-UP

PART OF 392-4202, 392-6286 ENGINE AR-PRIMARY

SMCS-1302

i05384183

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	396-4346	1	GAUGE AS-OIL LEVEL (DIPSTICK)	55
Y - SEPARATE ILLUSTRATION				

<END>

BASIC ENGINE

350-3750 PISTON & ROD GP

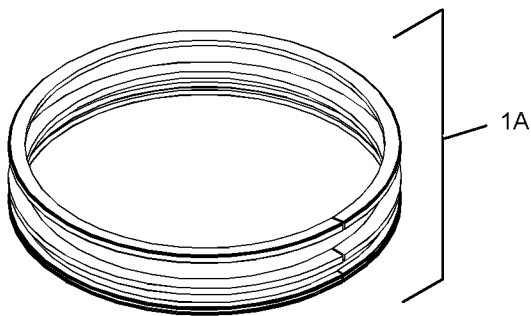
S/N: CNW1-UP

PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

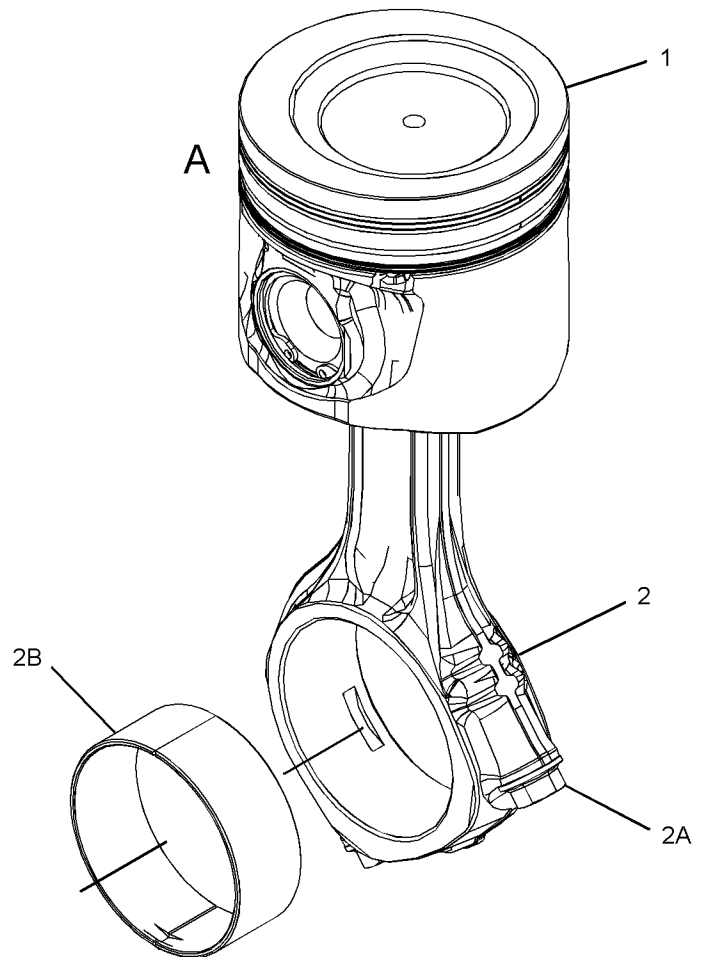
SMCS-1225

i04894624

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	375-1396	1	PISTON AS-ROD						
	1A	1	390-3115	4	PISTON-RING						
		1	390-3112	4	PISTON AS						
	2	1	393-7738	1	ROD AS-CONNECTING						
	2A	1	386-6247	8	SCREW						
	2B	1	390-2401	4	BEARING-CONNECTING ROD						
		1	390-2404	4	ROD AS-CONNECTING						



VIEW OF AREA A
(PARTS REMOVED FOR CLARITY)



GRAPHIC #1

<END>

g02880058

BASIC ENGINE

350-1102 PULLEY GP-CRANKSHAFT

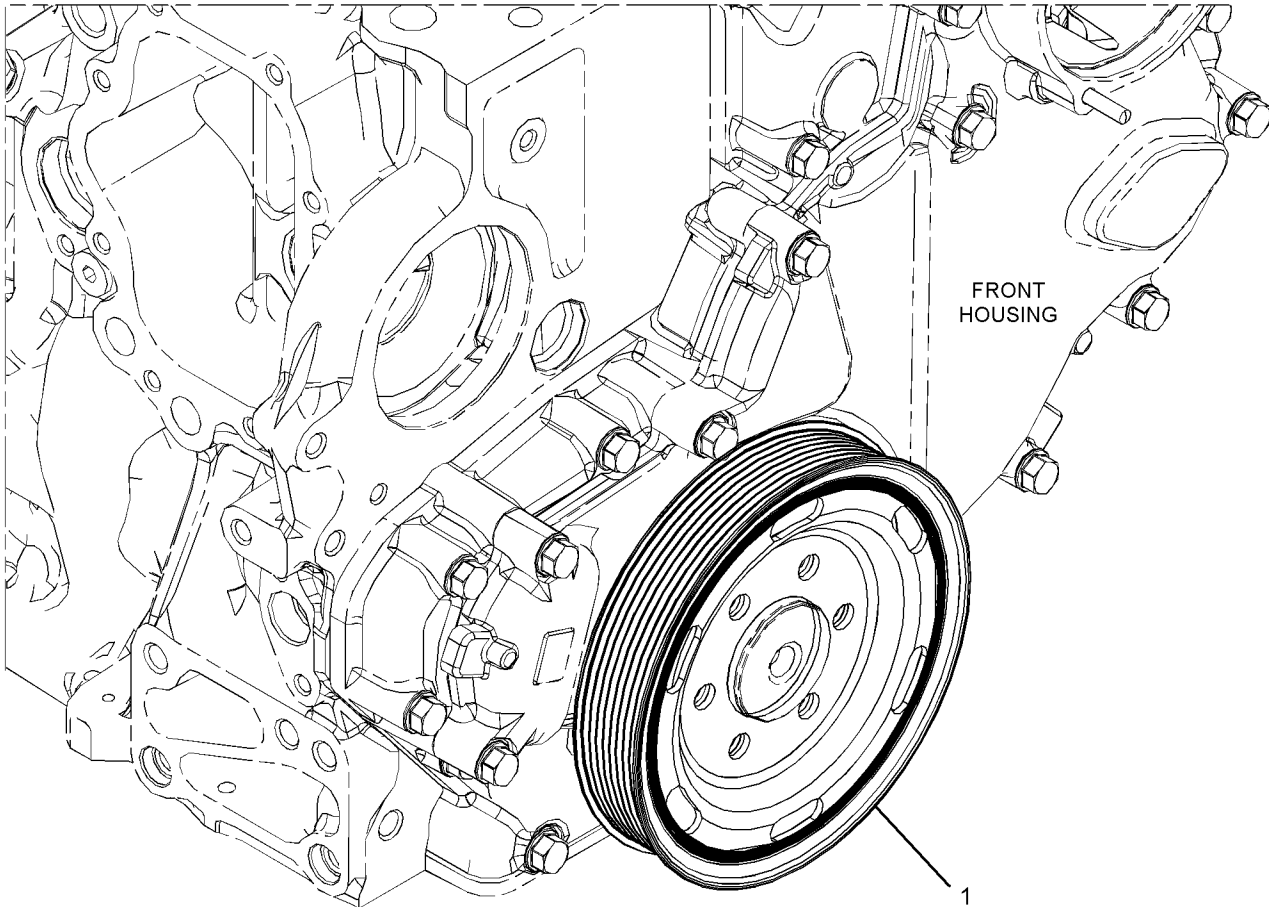
S/N: CNW1-UP

PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1205

i04894666

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	360-8847	1	PULLEY AS-CRANKSHAFT						
		1	382-9620	1	PULLEY						



GRAPHIC #1

<END>

g02878516

BASIC ENGINE

350-3752 ROCKER ARM GP

S/N: CNW1-UP

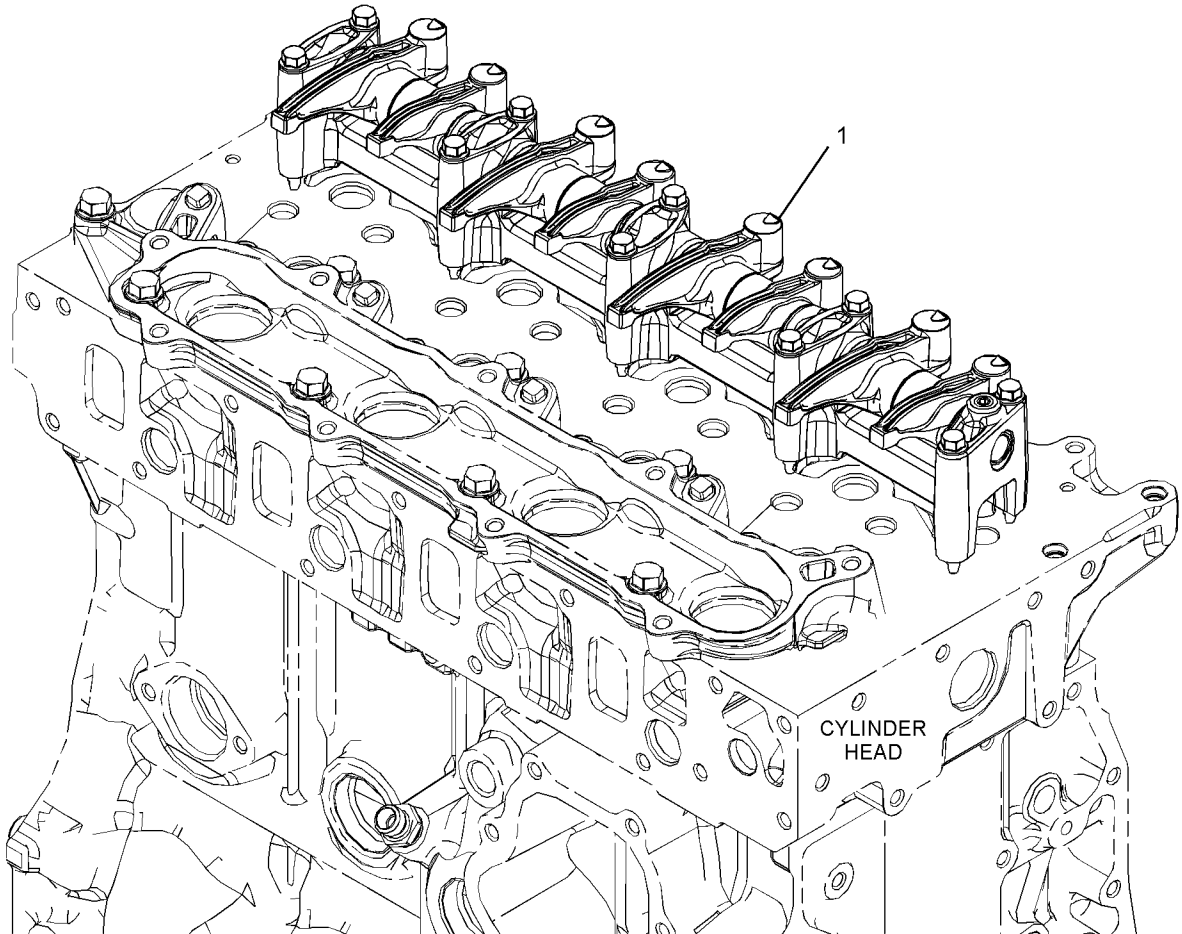
PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1123

i04892614

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	362-4925	1	ROCKER ARM GP						46

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g02886417

BASIC ENGINE

362-4925 ROCKER ARM GP

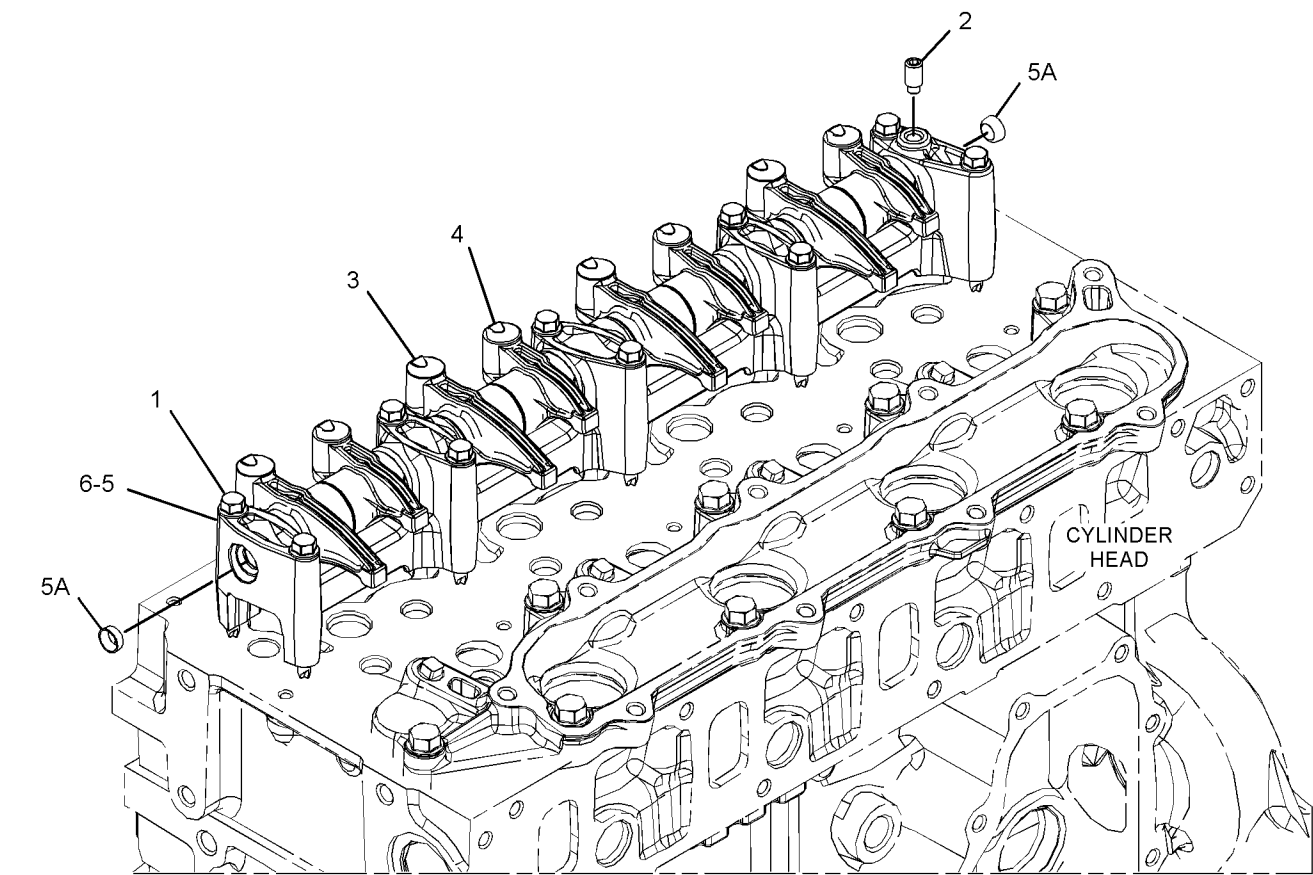
S/N: CNW1-UP

PART OF 350-3752 ROCKER ARM GP

SMCS-1123

i05373786

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	389-1873	10	BOLT						
	2	1	386-2062	1	SCREW						
	3	1	387-8132	4	ROCKER ARM AS						
	4	1	387-9103	4	ROCKER ARM AS						
	5	1	387-9207	1	SHAFT AS						
	5A	1	386-2061	3	PLUG						
	6	1	388-1175	1	BRACKET						



GRAPHIC #1

<END>

g03400336

LUBRICATION SYSTEM

350-1022 BREATHER GP

S/N: CNW1-UP

CRANKCASE

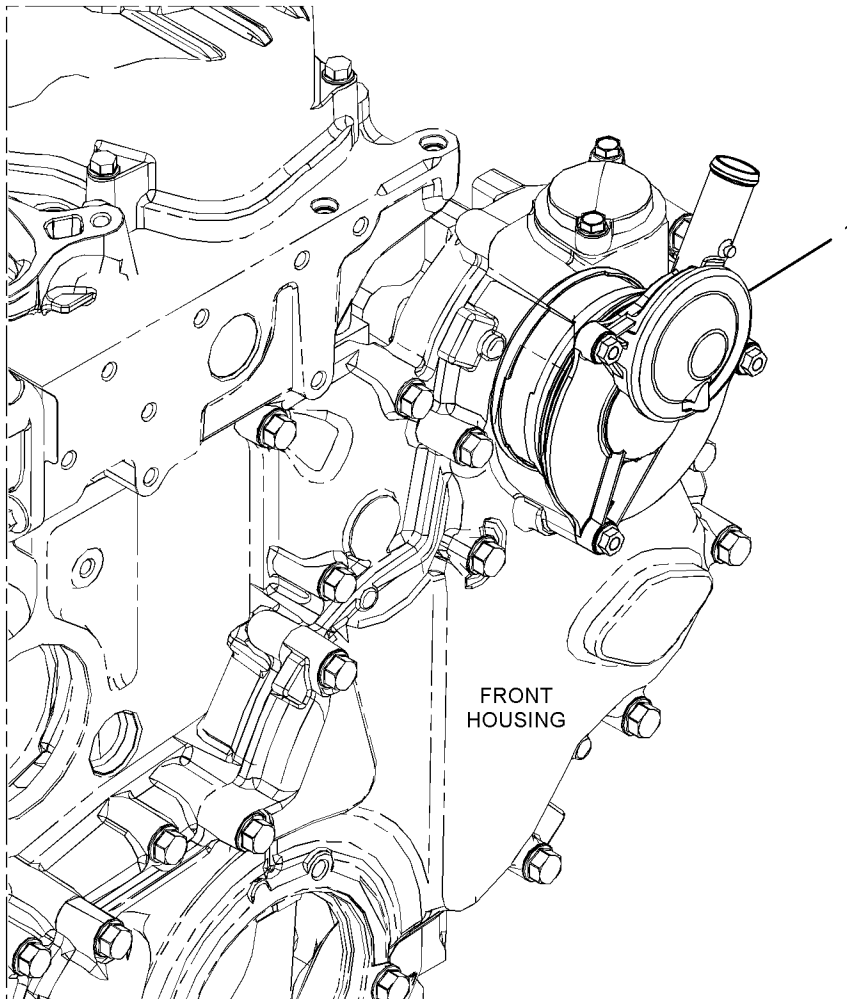
PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1317

i04892596

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	360-7848	1	BREATHER GP						48

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g02886676

LUBRICATION SYSTEM

360-7848 BREATHER GP

S/N: CNW1-UP

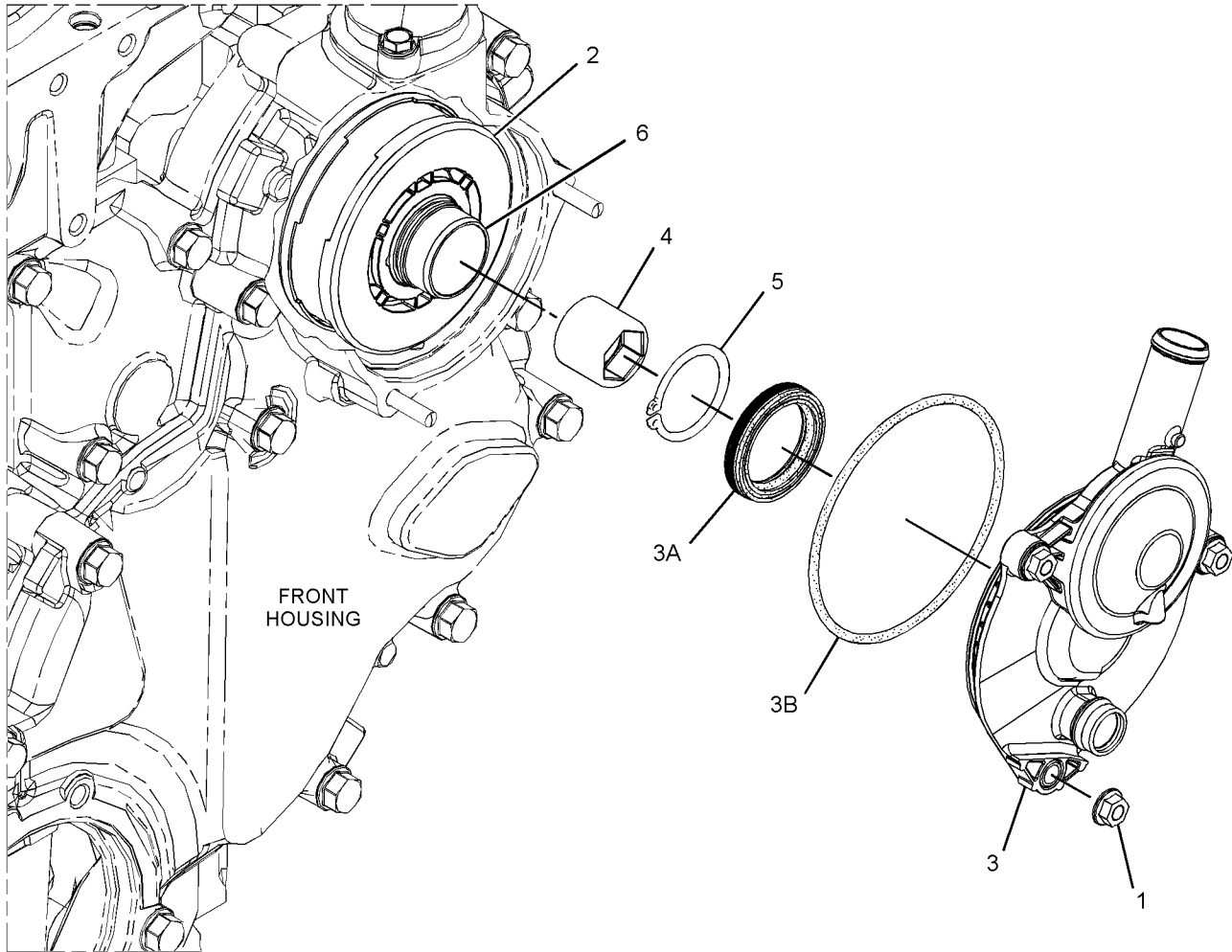
CRANKCASE

PART OF 350-1022 BREATHER GP

SMCS-1317

i05336982

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-0918	3	NUT						
	2	1	379-3058	1	FILTER ELEMENT-BREATHER						
	3	1	422-0642	1	COVER AS						
	3A	1	379-3061	1	SEAL						
	3B	1	379-3064	1	SEAL-O-RING						
	4	1	379-3066	1	BUSHING						
	5	1	381-3938	1	SPRING						
	6	1	379-3065	1	SHAFT						



GRAPHIC #1

<END>

g03383726

LUBRICATION SYSTEM

353-5330 COVER GP-OIL FILLER

S/N: CNW1-UP

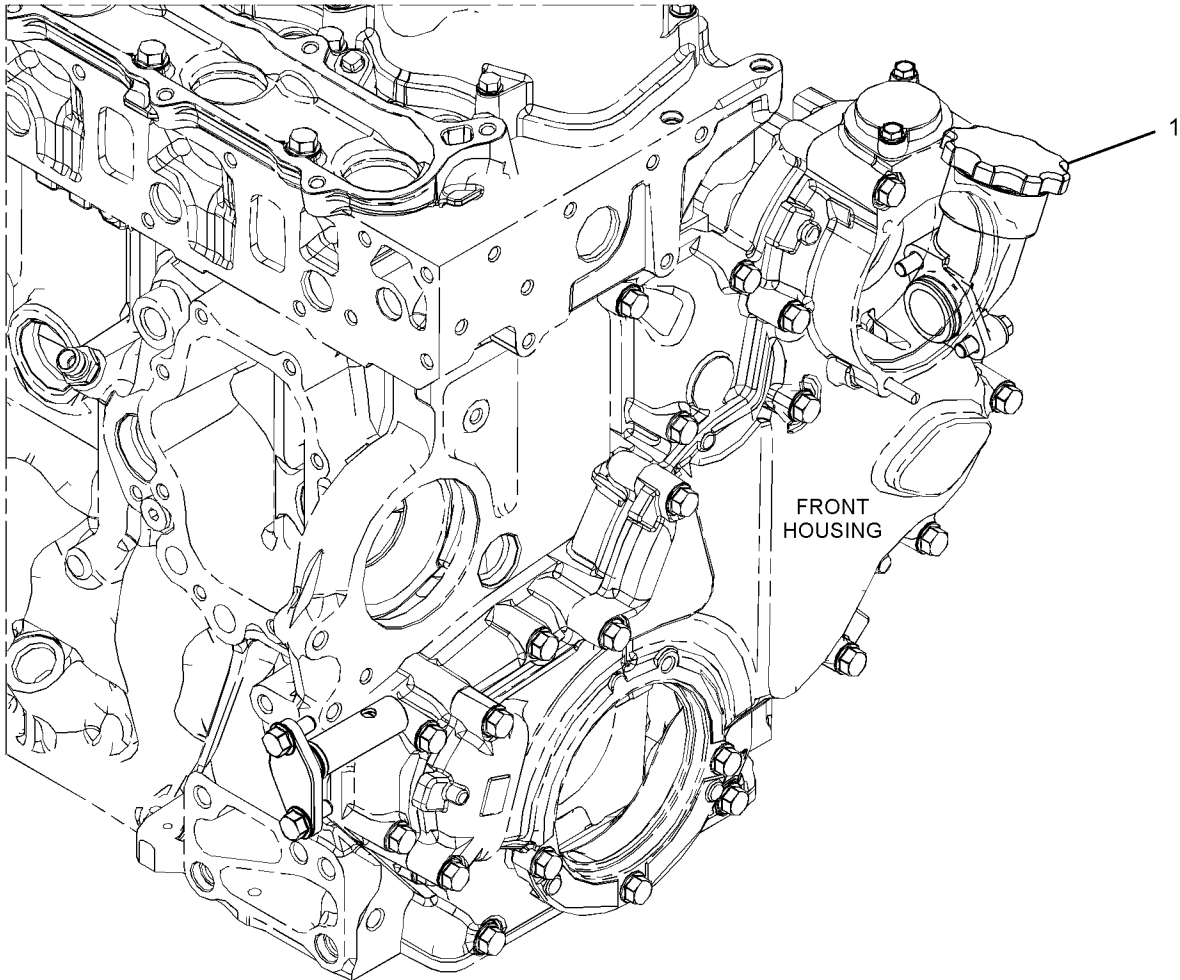
PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1316

i04892632

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	373-0282	1	FILLER GP-ENGINE OIL						50

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g02885357

LUBRICATION SYSTEM

373-0282 FILLER GP-ENGINE OIL

S/N: CNW1-UP

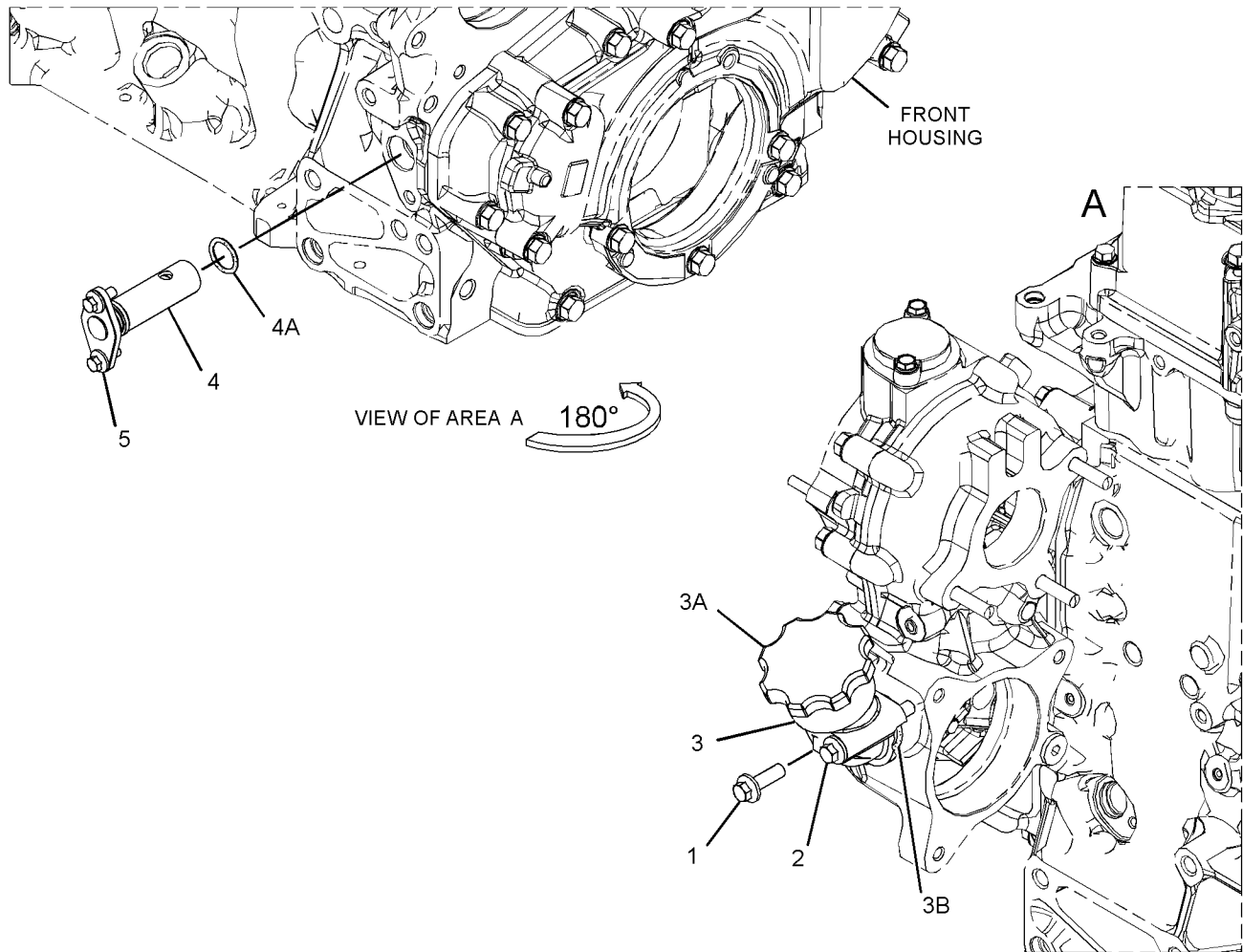
PART OF 353-5330 COVER GP-OIL FILLER, 377-5991 FILLER GP-ENGINE OIL

SMCS-1316

i05336988

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-4374	1	BOLT (M8X1.25X60-MM)						
	3	1	321-2383	1	FILLER GP-ENGINE OIL						
	3A	1	130-9888	1	CAP-OIL FILLER (ENGINE)						
	3B	1	306-2337	1	SEAL-O-RING						
	4	1	392-6028	1	VALVE AS						
	4A	1	386-1911	1	SEAL						
	5	1	6I-0846	2	BOLT (M6X1X14-MM)						

M - METRIC PART



GRAPHIC #1

<END>

g03384988

LUBRICATION SYSTEM

377-5991 FILLER GP-ENGINE OIL

S/N: CNW1-UP

PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1316

i05379146

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	373-0282	1	FILLER GP-ENGINE OIL						50
Y - SEPARATE ILLUSTRATION									

<END>

LUBRICATION SYSTEM

392-0584 FILTER & MTG GP-ENGINE OIL

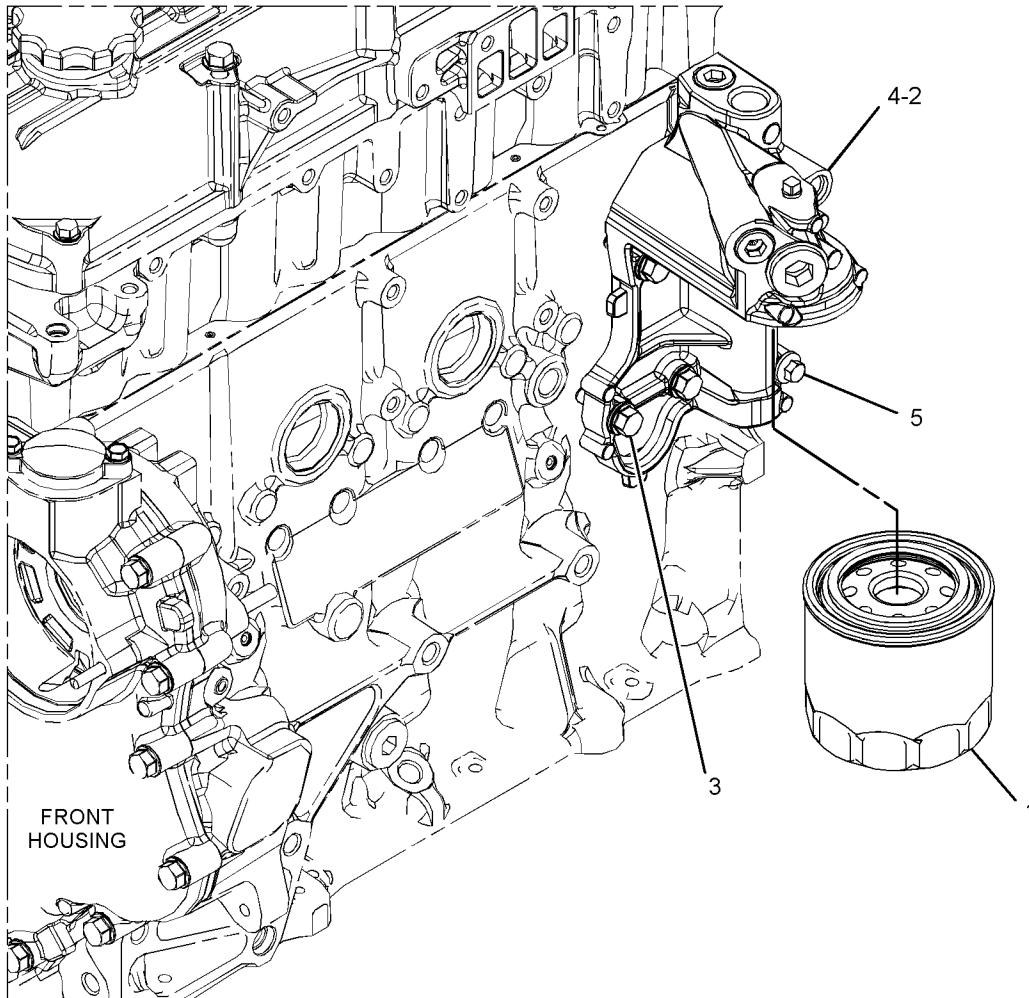
S/N: CNW1-UP

PART OF 350-1054 COOLER GP-ENGINE OIL

SMCS-1306, 1308

i04895968

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	374-0619	1	FILTER (OIL)						
	2	1	388-7604	1	GASKET						
	3	1	389-1920	3	BOLT						
	4	1	392-2042	1	HEADER AS (OIL FILTER)						
	5	1	6I-0455	2	BOLT (M8X1.25X55-MM)						



GRAPHIC #1

<END>

g02886677

LUBRICATION SYSTEM

418-3402 FILTER GP-ENGINE OIL

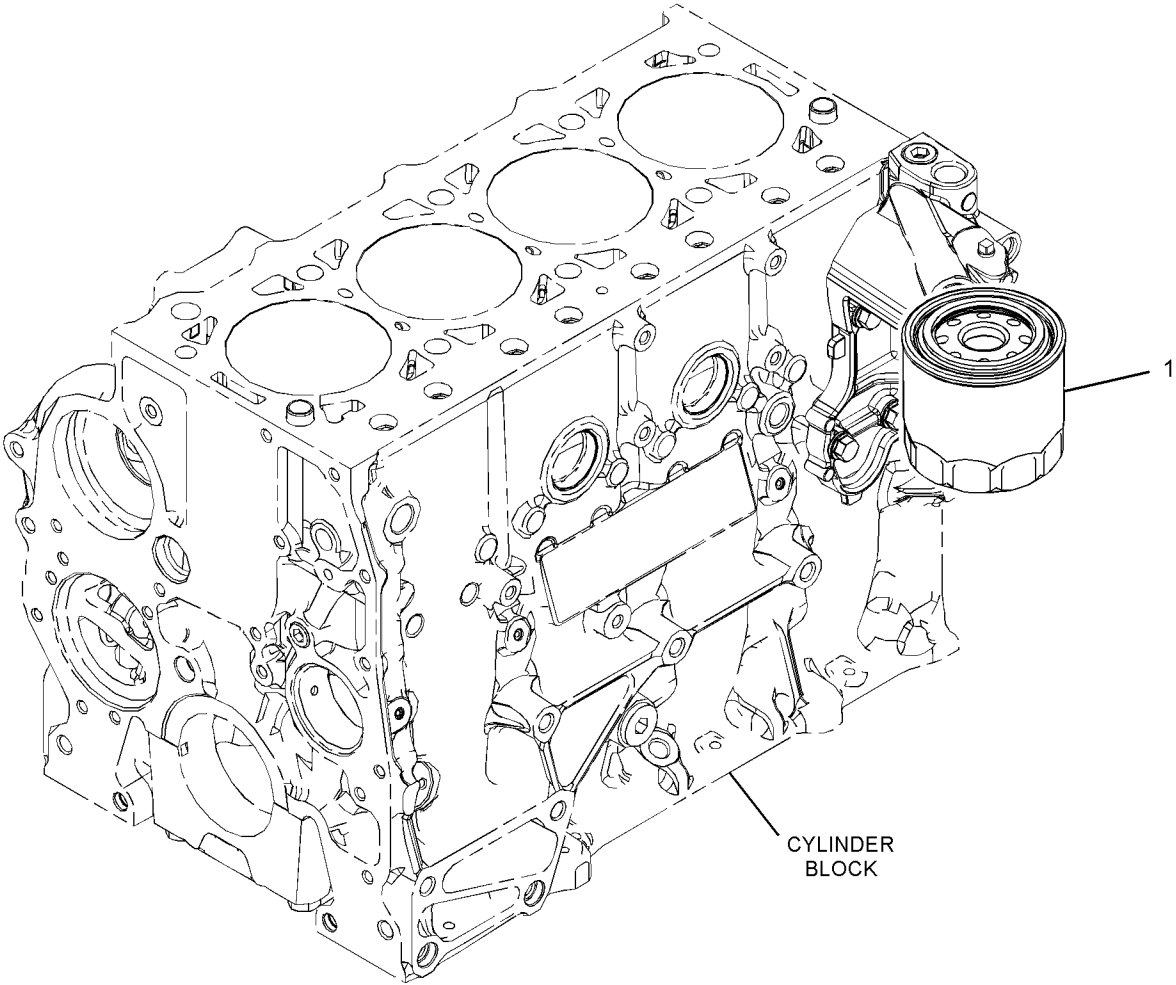
S/N: CNW1-UP

PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1306, 1308

i05416851

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	441-6852	1	FILTER AS-OIL (ENGINE OIL)						



GRAPHIC #1

<END>

g03358504

LUBRICATION SYSTEM

377-5240 GAUGE AS-OIL LEVEL (DIPSTICK)

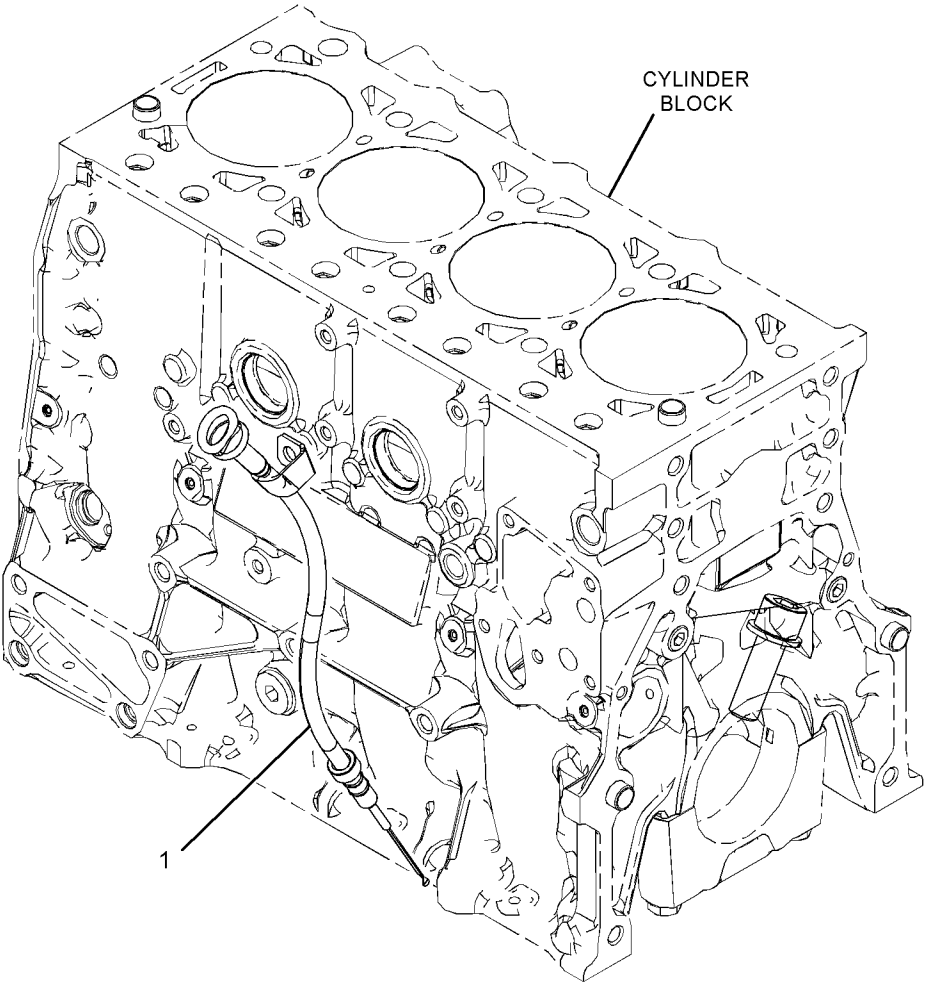
S/N: CNW1-UP

PART OF 392-5184, 392-6354 ENGINE AR-PRIMARY

SMCS-1326

i05343841

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	434-5675	1	GAUGE AS-OIL LEVEL (DIPSTICK) (ENGINE)						56
Y - SEPARATE ILLUSTRATION											



GRAPHIC #1

<END>

g03392119

LUBRICATION SYSTEM

396-4346 GAUGE AS-OIL LEVEL (DIPSTICK)

S/N: CNW1-UP

PART OF 382-9628 PAN GP-OIL

SMCS-1326

i05384246

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
M	102-9941	1	BOLT (M12X1.75X25-MM)						
	320-8385	1	WASHER						
	415-1556	1	SCREW						
	431-5643	1	GAUGE AS-OIL LEVEL (DIPSTICK)						
	388-0495	2	SEAL						
	390-3100	1	SEAL						
	431-5639	1	GAUGE AS-OIL LEVEL (DIPSTICK)						
	388-7613	1	SEAL						
	433-4005	1	HOSE						
	433-6836	1	GAUGE						
	433-6837	1	HANDHOLD						
	433-6838	1	PIN						
	433-6840	1	TUBE						
	433-6841	1	TUBE AS						
	433-6831	1	TUBE						
	433-6832	1	BRACKET						
	433-6833	1	UNION						
	433-6835	1	WASHER						

M - METRIC PART

<END>

LUBRICATION SYSTEM

434-5675 GAUGE AS-OIL LEVEL (DIPSTICK)

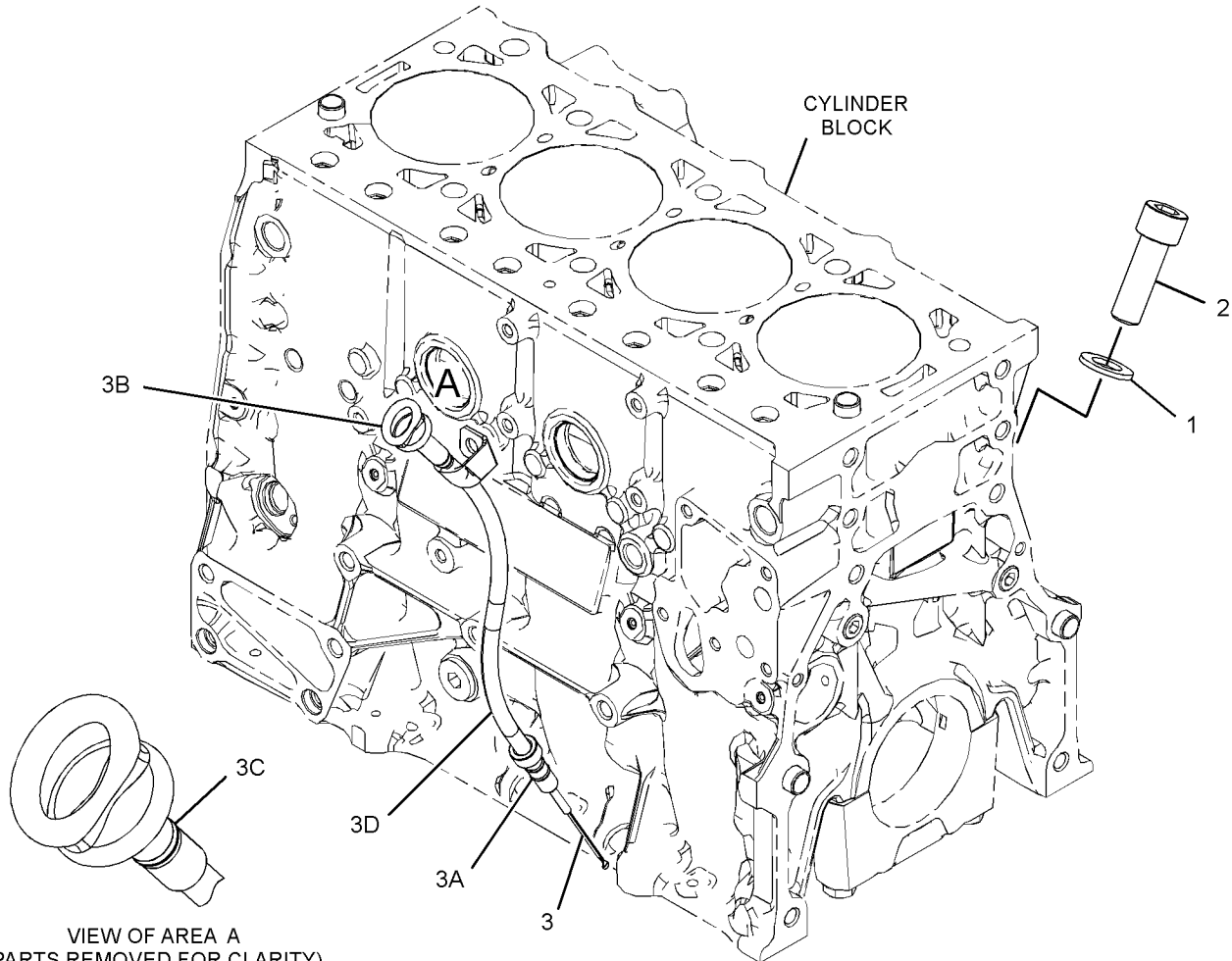
S/N: CNW1-UP

PART OF 377-5240 GAUGE AS-OIL LEVEL (DIPSTICK)

SMCS-1326

i05343847

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	320-8385	1	WASHER						
	2	1	415-1556	1	SCREW						
	3	1	434-1102	1	GAUGE AS-OIL LEVEL (DIPSTICK) (ENGINE)						
	3A	1	390-3100	2	SEAL						
	3B	1	399-1254	1	GAUGE-OIL LEVEL (DIPSTICK) (ENGINE)						
	3C	1	388-7613	1	SEAL						
	3D	1	399-8489	1	PIPE AS-OIL GAUGE						



g03392154

LUBRICATION SYSTEM

350-1569 PUMP GP-ENGINE OIL

S/N: CNW1-UP

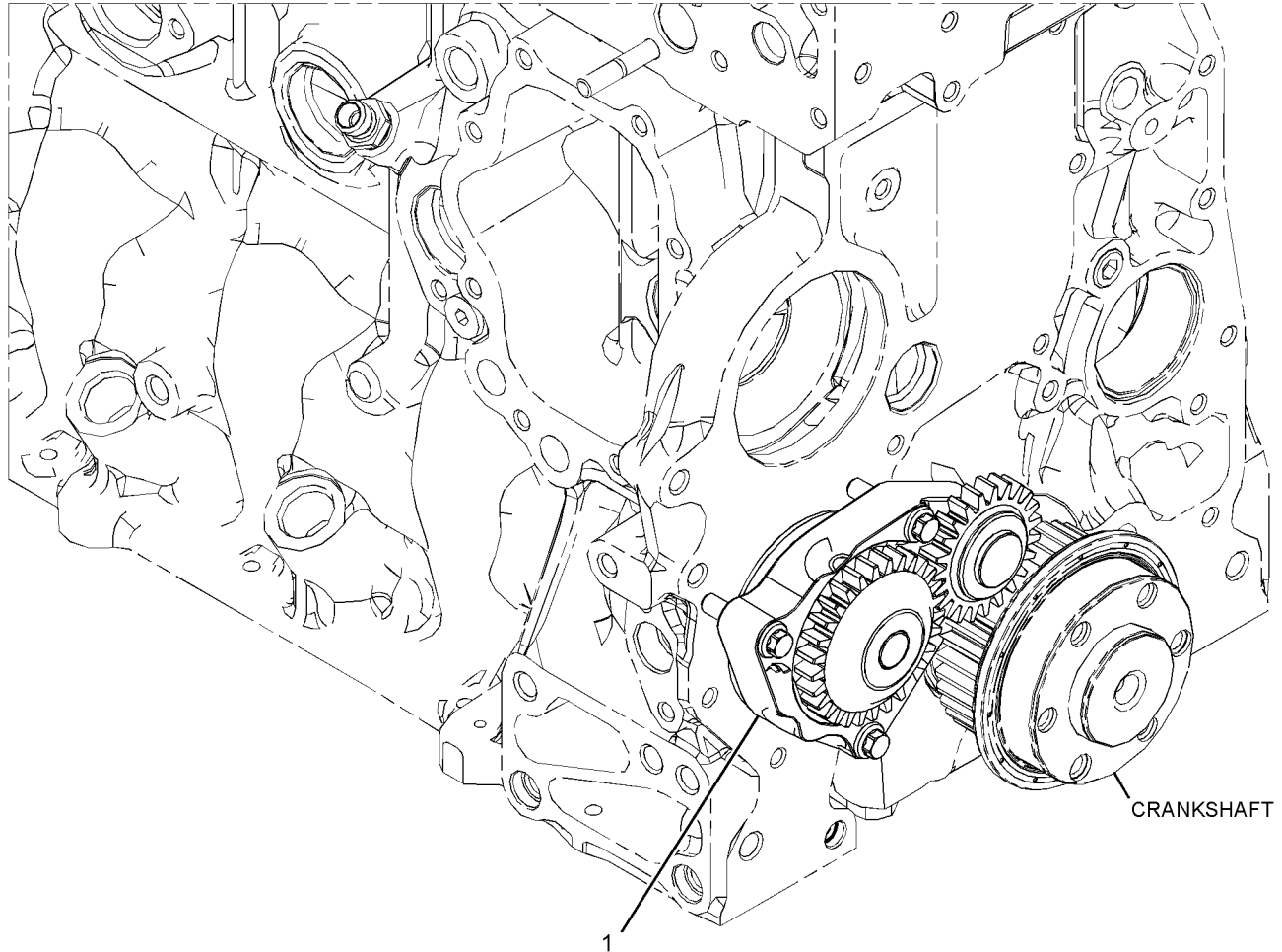
PART OF 392-5184, 392-6354 ENGINE AR-PRIMARY

SMCS-1304, 1315

i04892601

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	372-4967	1	PUMP GP-ENGINE OIL						58

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g02879038

LUBRICATION SYSTEM

372-4967 PUMP GP-ENGINE OIL

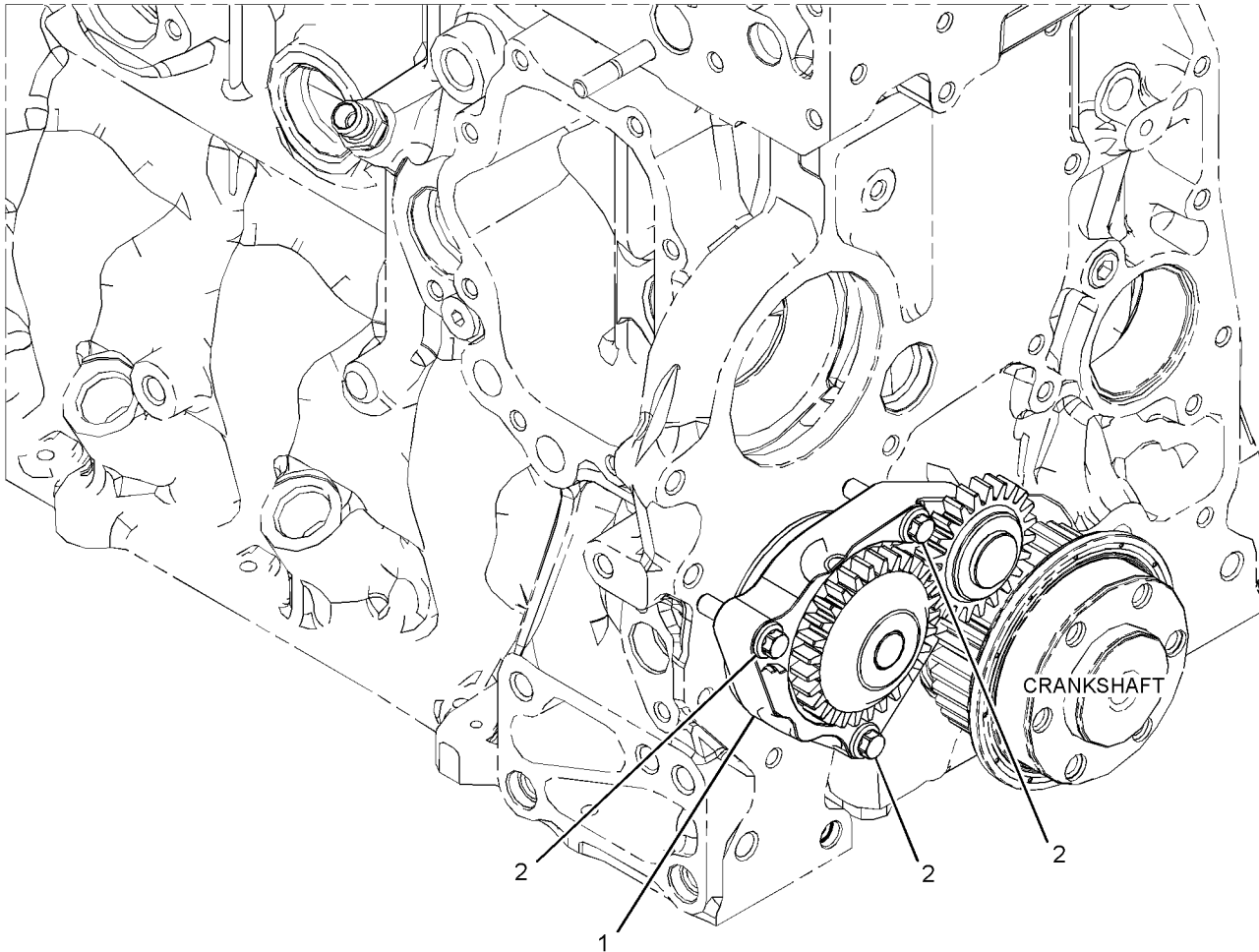
S/N: CNW1-UP

PART OF 350-1569 PUMP GP-ENGINE OIL

SMCS-1304, 1315

i04895997

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	387-9152	1	PUMP AS-ENGINE OIL						
	2	1	389-2870	3	SCREW						



GRAPHIC #1

<END>

g02879040

LUBRICATION SYSTEM

396-4354 STRAINER AS-OIL

S/N: CNW1-UP

PART OF 382-6589 PAN GP-OIL

SMCS-1308

i05387560

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	100-4458	1	BOLT (M8X1.25X14-MM)						
	387-9123	1	SCREW						
	431-5644	1	STRAINER AS						
	387-7711	1	SEAL						
	433-3952	1	PIPE						
	433-3954	1	STRAINER						
	433-3958	1	COVER						
	433-3967	1	BRACKET						
	433-3968	1	BUSHING						
			<END>						

COOLING SYSTEM

350-1467 CONNECTION GP-WATER

S/N: CNW1-UP

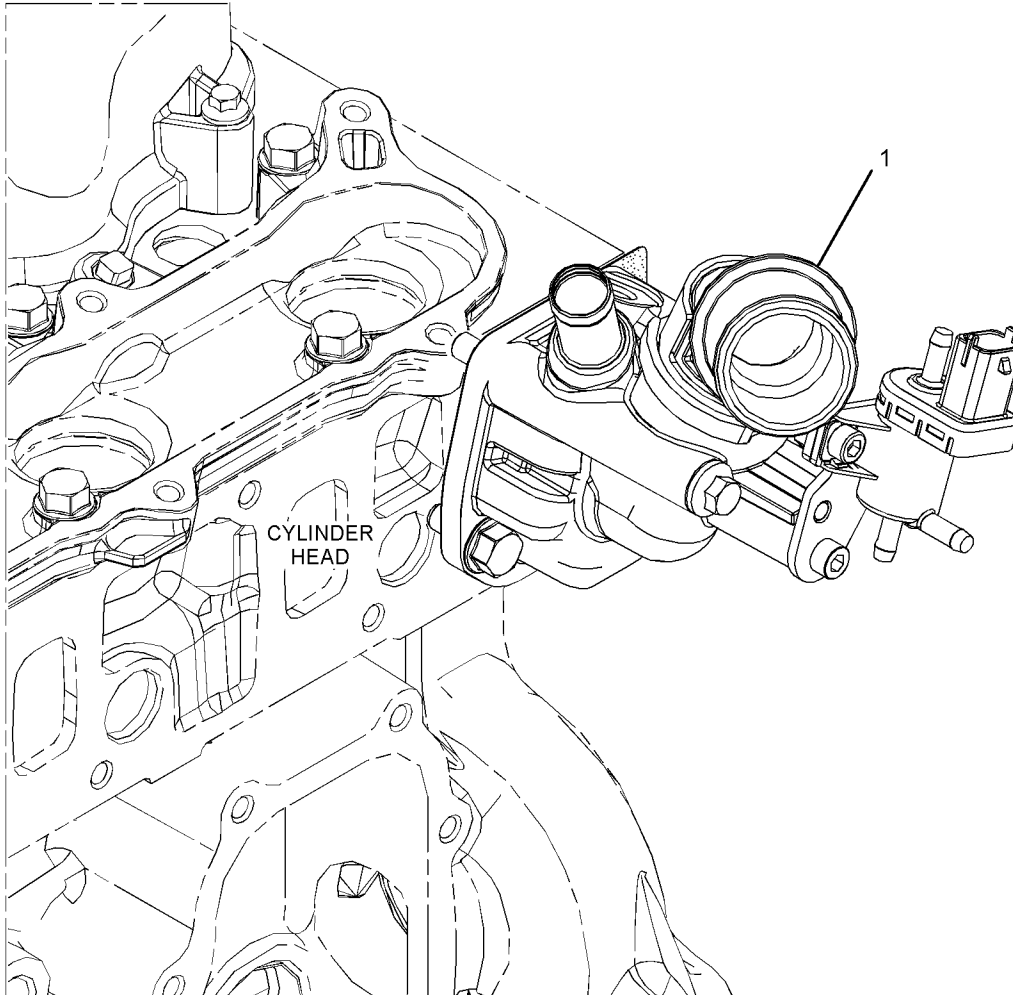
PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1380

i04904828

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	373-0278	1	REGULATOR GP-TEMPERATURE						72

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g02938196

COOLING SYSTEM

367-6788 CONNECTION GP-WATER

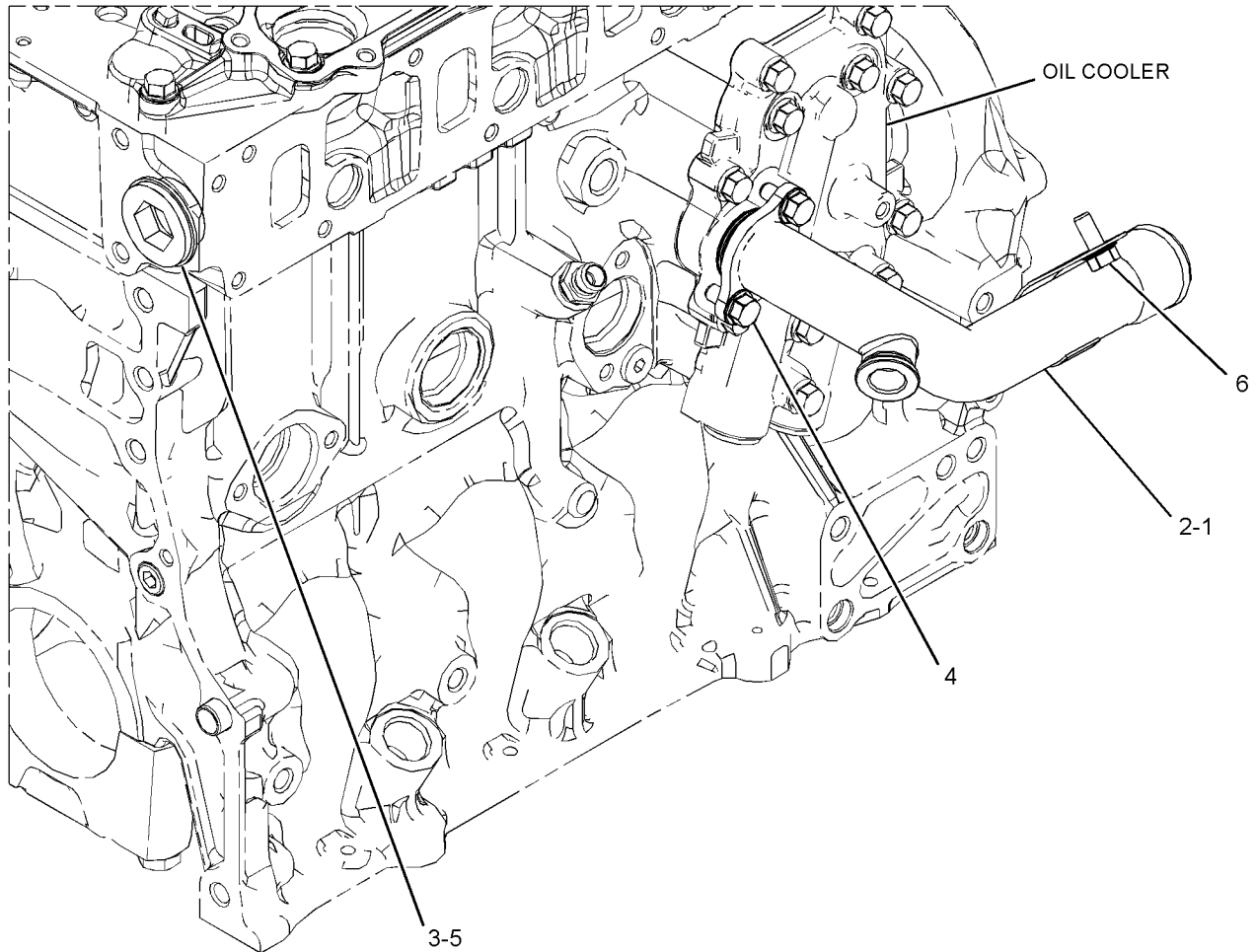
S/N: CNW1-UP

PART OF 350-5644 PUMP GP-WATER

SMCS-1380

i05166787

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	383-1341	1	SEAL						
	2	1	386-1927	1	PIPE						
	3	1	387-7732	1	PLUG						
	4	1	389-1863	2	BOLT						
	5	1	389-2865	1	WASHER						
	6	1	100-4458	1	BOLT (M8X1.25X14-MM)						



GRAPHIC #1

<END>

g03332077

COOLING SYSTEM

350-1054 COOLER GP-ENGINE OIL

S/N: CNW1-UP

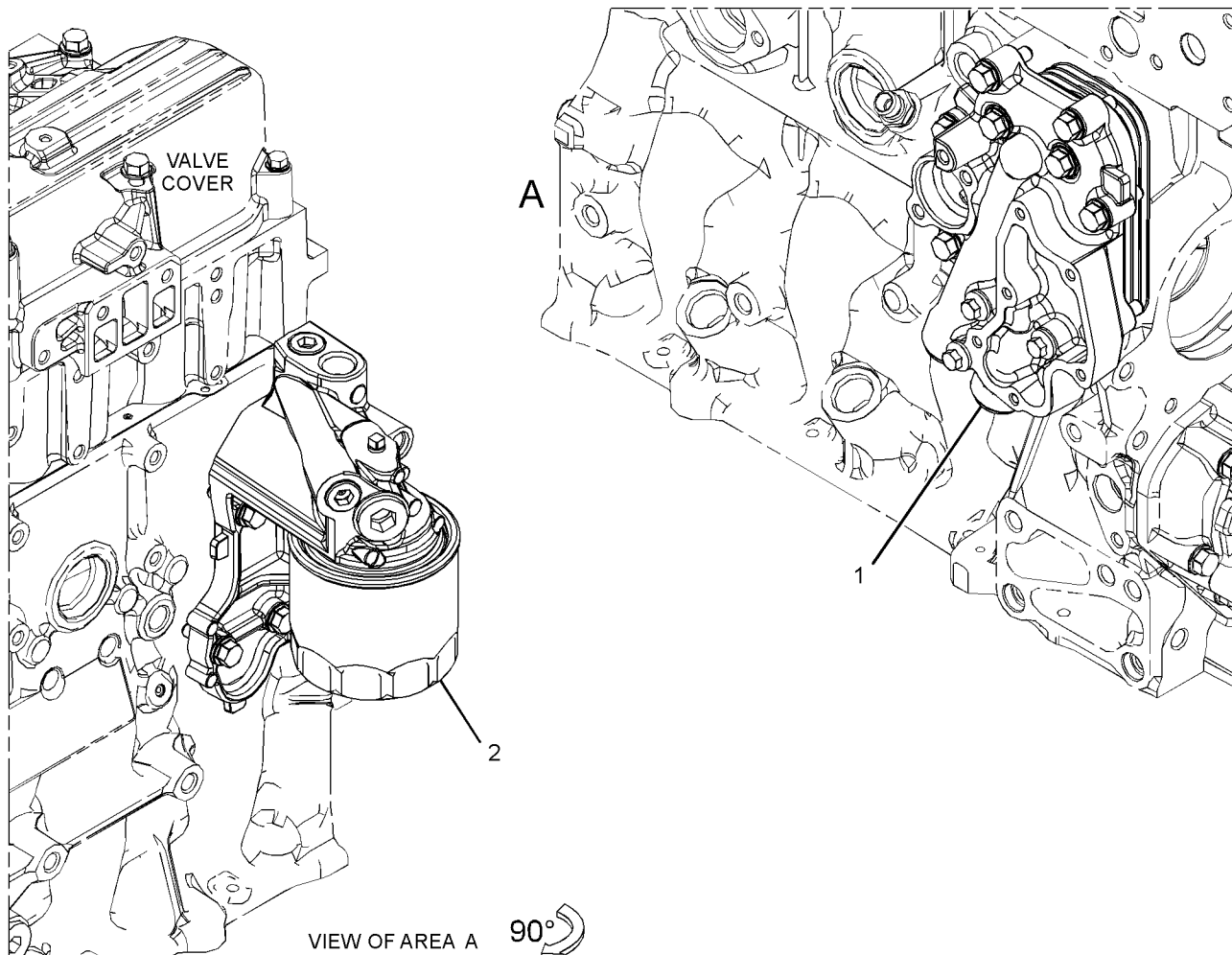
PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1378

i04892651

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	392-0563	1	COOLER GP-ENGINE OIL	63
Y	2	1	392-0584	1	FILTER & MTG GP-ENGINE OIL	52

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g02886678

COOLING SYSTEM

392-0563 COOLER GP-ENGINE OIL

S/N: CNW1-UP

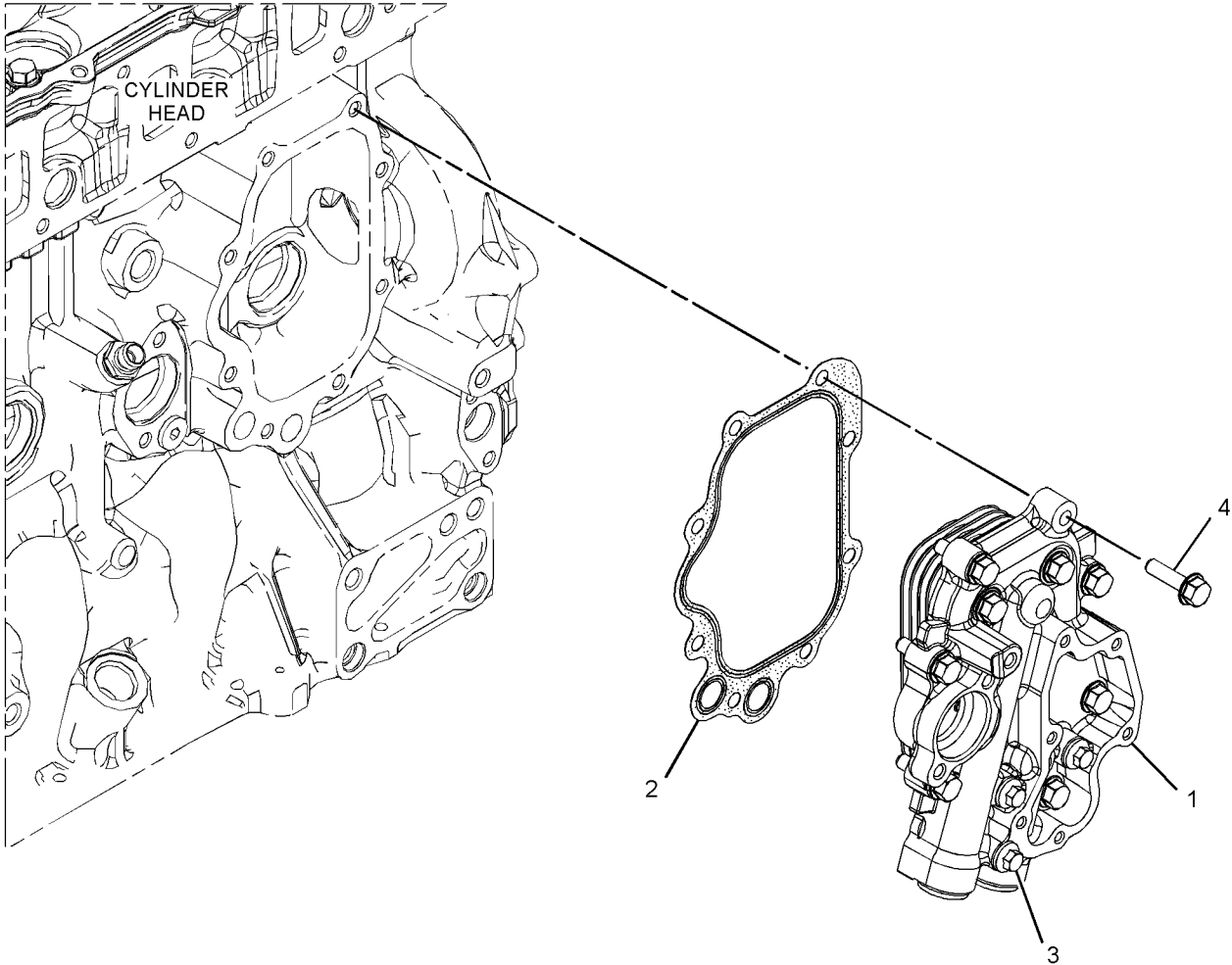
PART OF 350-1054 COOLER GP-ENGINE OIL

SMCS-1378

i05385138

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	392-2045	1	COOLER GP-ENGINE OIL						64
	2	1	386-6451	1	GASKET						
	3	1	388-2068	1	BOLT						
	4	1	389-1920	7	BOLT						

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03412257

COOLING SYSTEM

392-2045 COOLER GP-ENGINE OIL

S/N: CNW1-UP

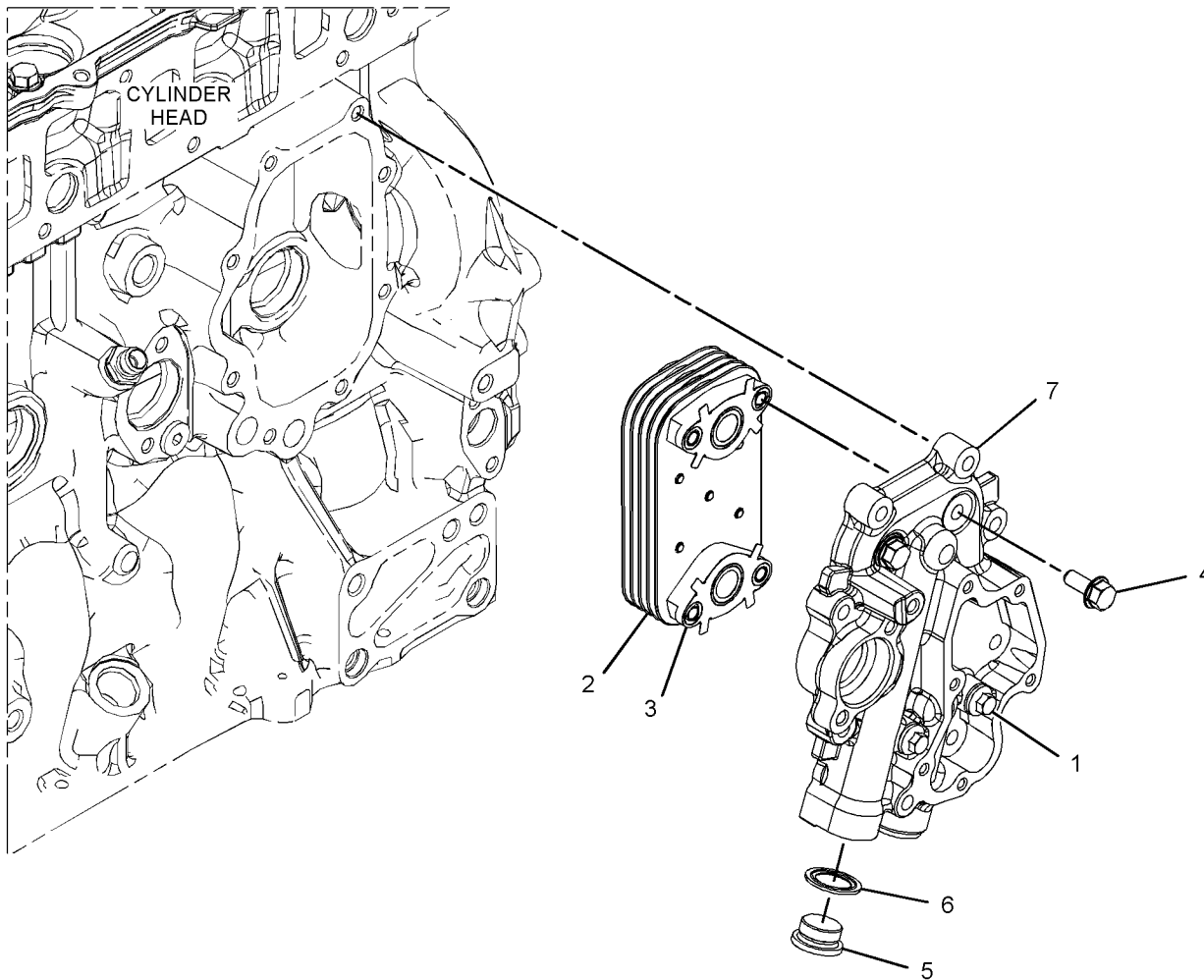
PART OF 392-0563 COOLER GP-ENGINE OIL

SMCS-1378

i05385100

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	2	BOLT (M8X1.25X35-MM)						
	2	1	386-6507	1	COOLER						
	3	1	388-0519	2	GASKET						
	4	1	389-1874	2	BOLT						
	5	1	390-0321	2	PLUG						
	6	1	390-3130	2	SEAL						
	7	1	392-2047	1	HOUSING						

M - METRIC PART



GRAPHIC #1

<END>

g03412440

COOLING SYSTEM

378-6631 FAN GP-SUCTION

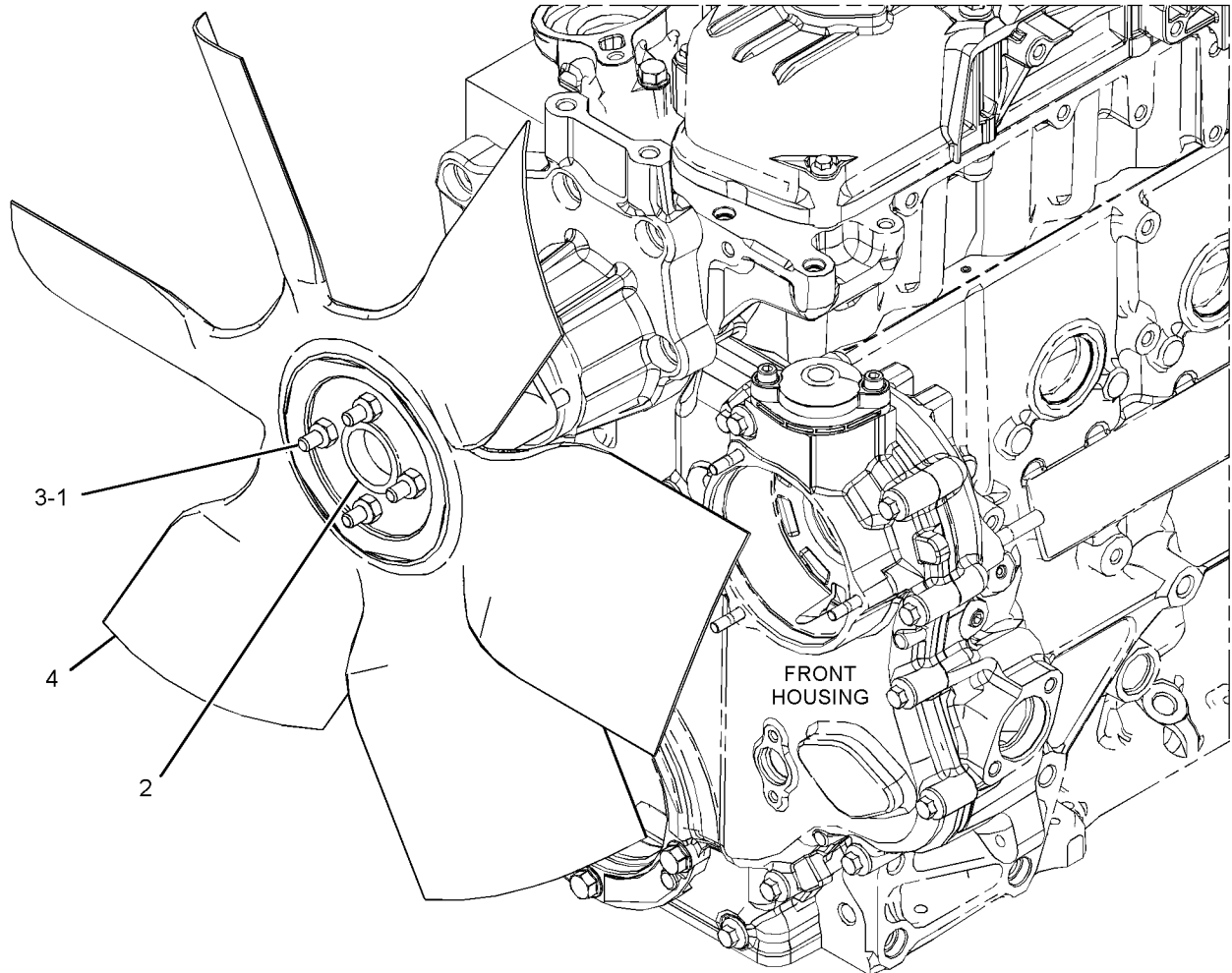
S/N: CJ31-UP

PART OF 393-3428, 393-3429, 393-3430, 393-3431 ENGINE AR-PRIMARY

SMCS-1356

i05393707

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	113-6349	4	NUT (M8X1.25-THD)						
	2	1	375-1278	1	EXTENSION						
	3	1	236-2316	4	STUD						
	4	1	377-7282	1	FAN (6-BLADE)						



GRAPHIC #1

<END>

g03067130

COOLING SYSTEM

350-1959 PLUG GP-WATER LINES

S/N: CNW1-UP

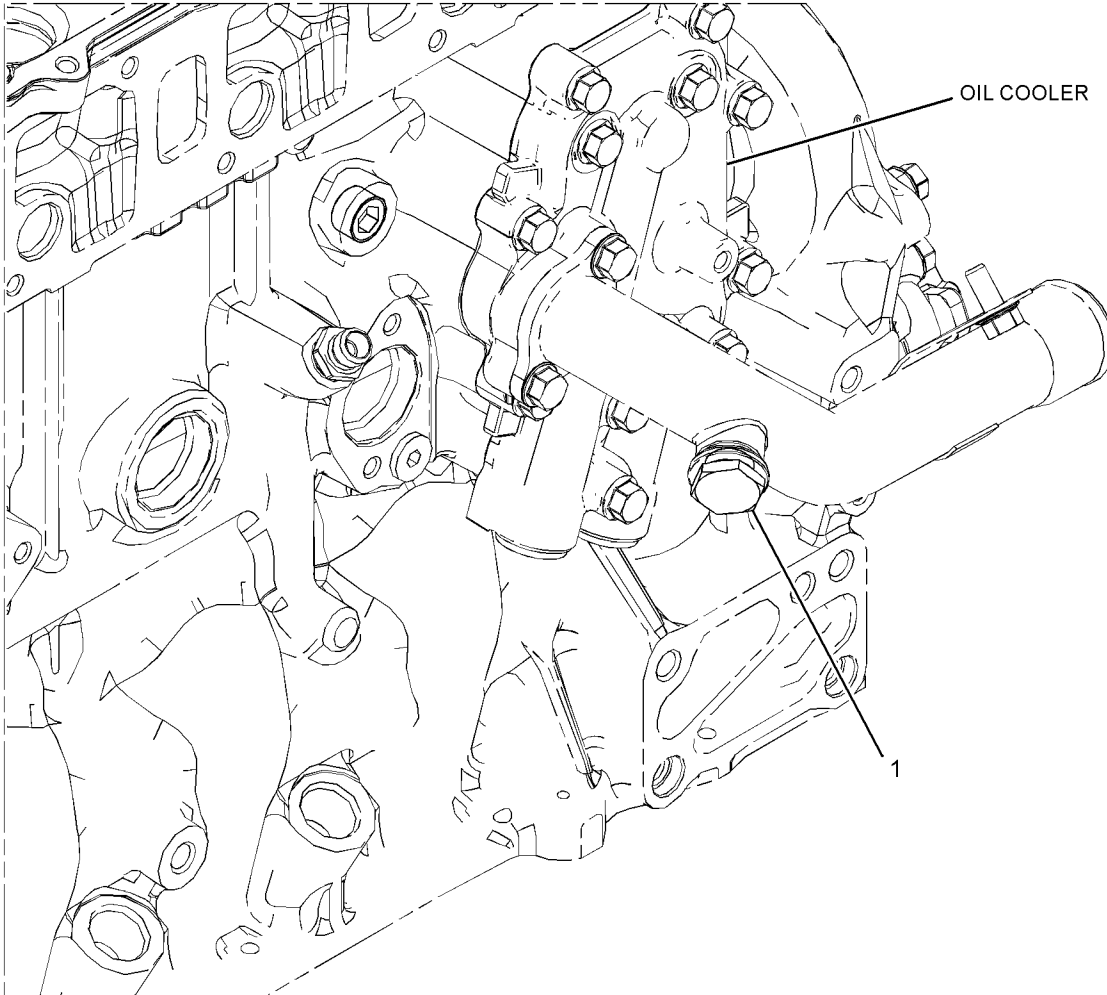
PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1380

i04894665

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	374-6765	1	PLUG GP-WATER LINES						67

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g02879057

COOLING SYSTEM

374-6765 PLUG GP-WATER LINES

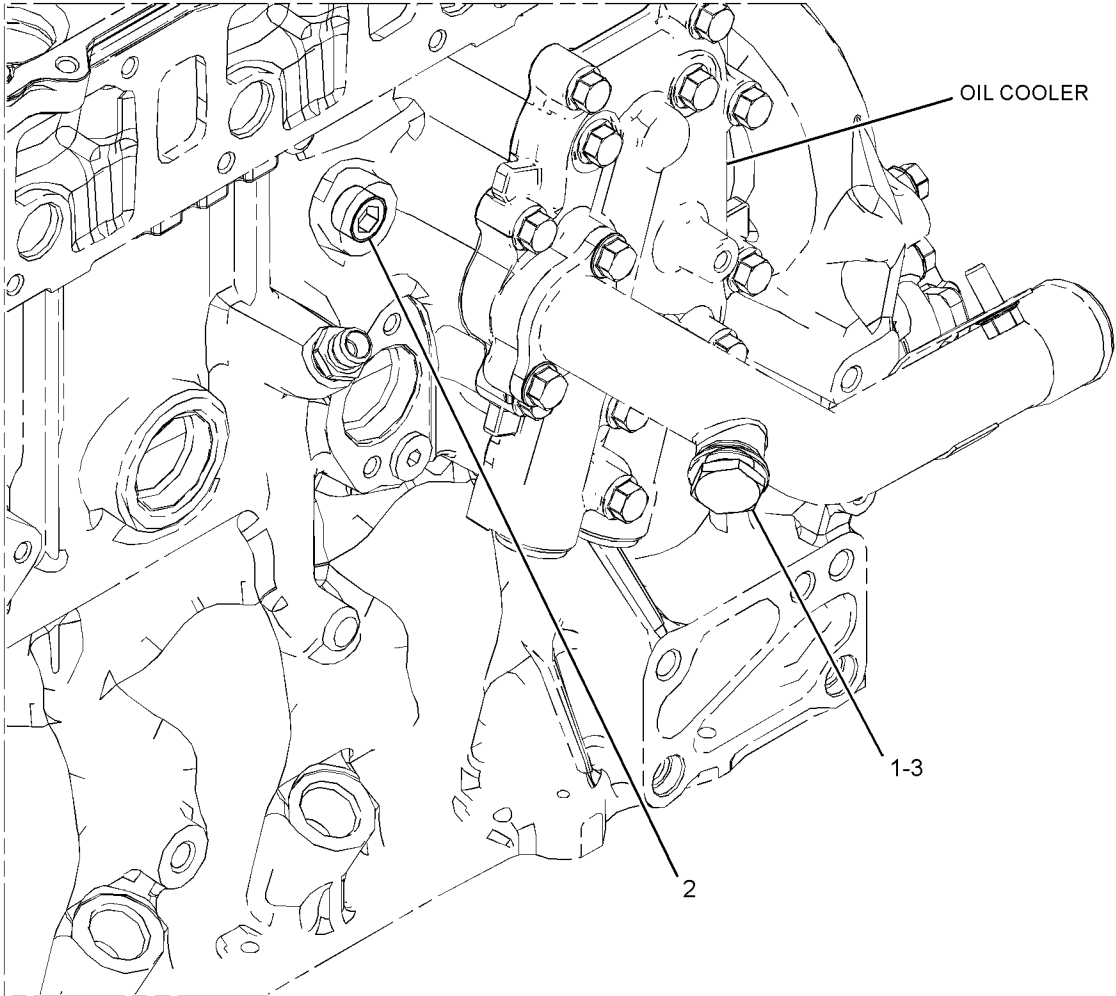
S/N: CNW1-UP

PART OF 350-1959 PLUG GP-WATER LINES

SMCS-1380

i04895996

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	387-7727	1	PLUG						
	2	1	387-7734	1	PLUG						
	3	1	389-2856	1	WASHER						



GRAPHIC #1

<END>

g02881402

COOLING SYSTEM

350-5644 PUMP GP-WATER

S/N: CNW1-UP

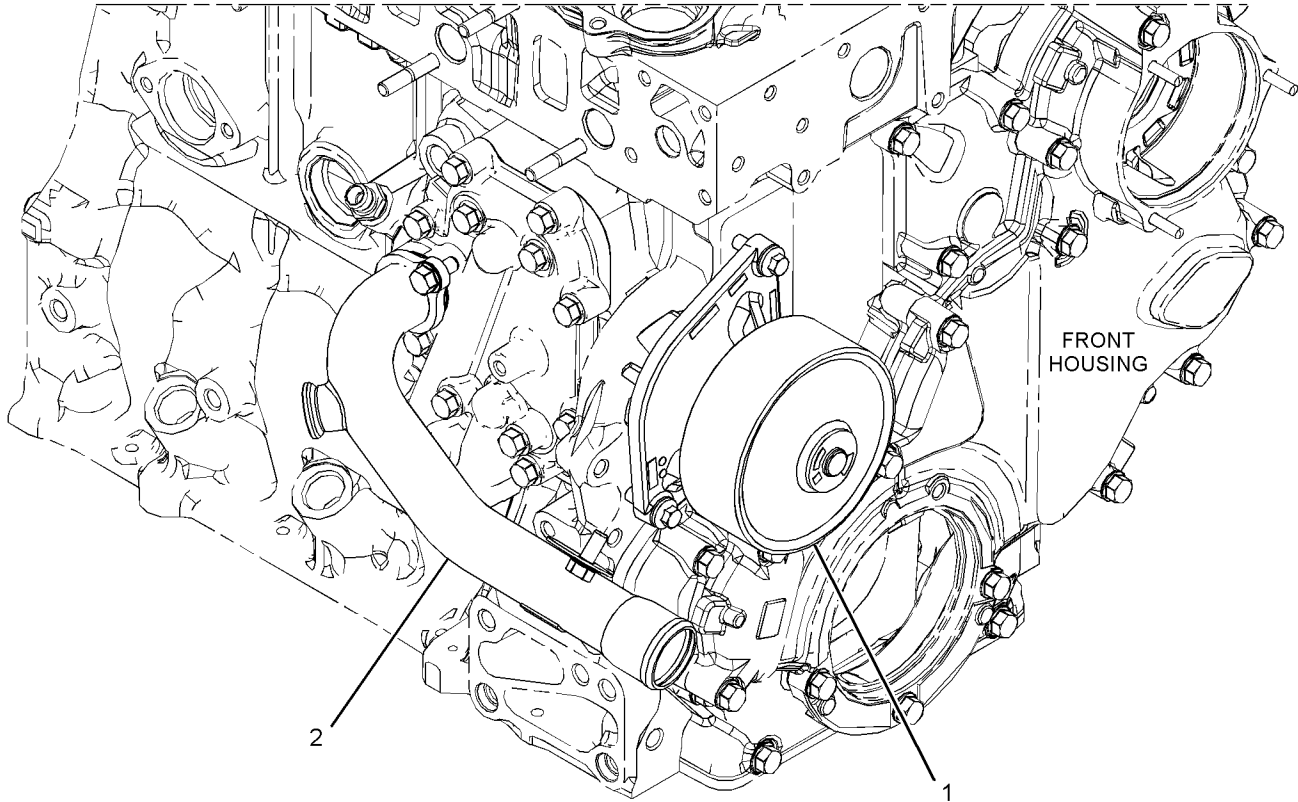
PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1361

i04904629

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	367-6033	1	PUMP GP-WATER	69
Y	2	1	367-6788	1	CONNECTION GP-WATER	61

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g02880663

COOLING SYSTEM

367-6033 PUMP GP-WATER

S/N: CNW1-UP

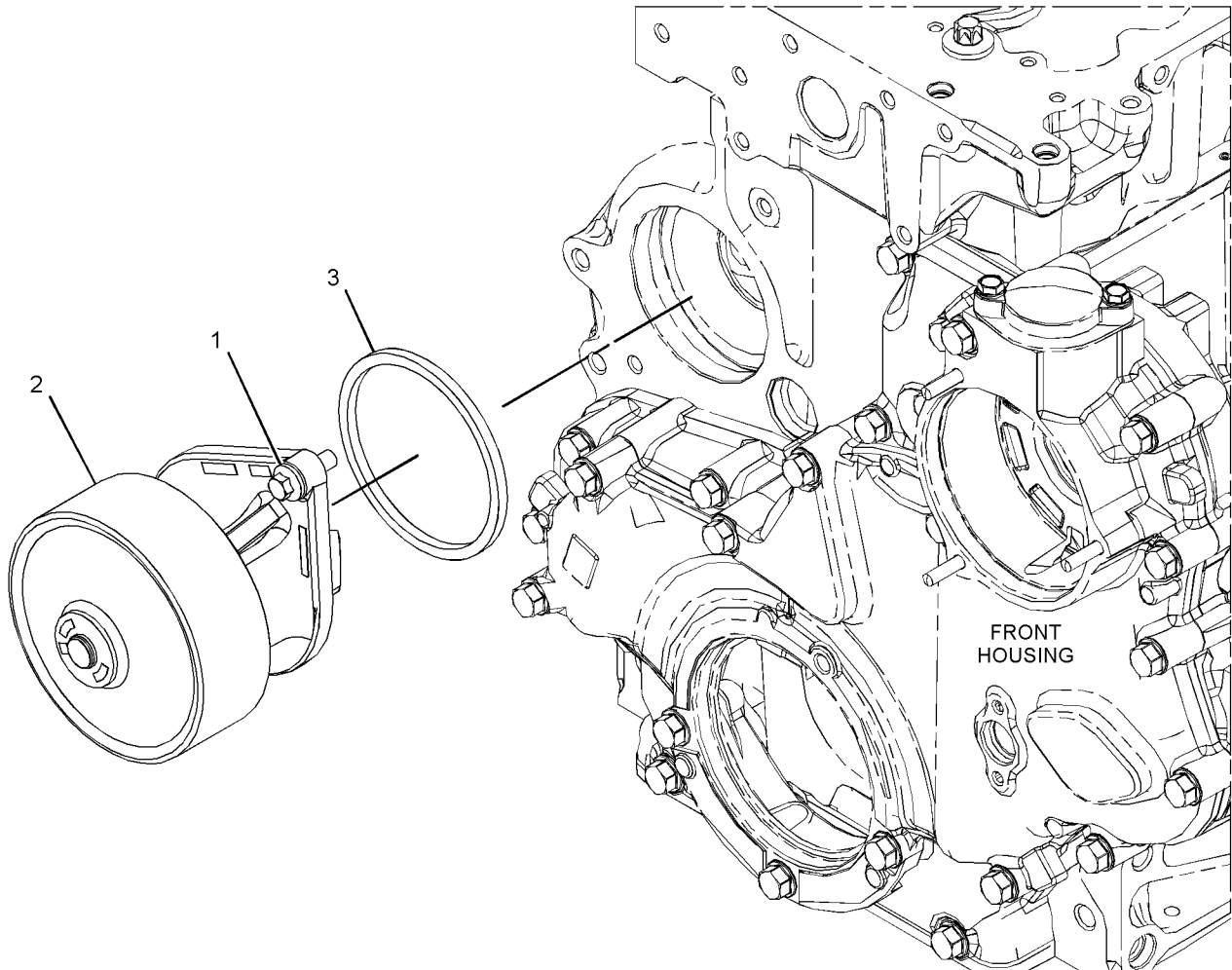
PART OF 350-5644 PUMP GP-WATER

SMCS-1361

i04896034

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	2	BOLT (M8X1.25X25-MM)						
	2	1	387-7759	1	PUMP						
	3	1	389-2863	1	WASHER						

M - METRIC PART



GRAPHIC #1

<END>

g02880577

COOLING SYSTEM

378-3751 RADIATOR & MOUNTING GP

S/N: CJ31-UP

PART OF 393-3428, 393-3429, 393-3430, 393-3431 ENGINE AR-PRIMARY

SMCS-1353

i05348054

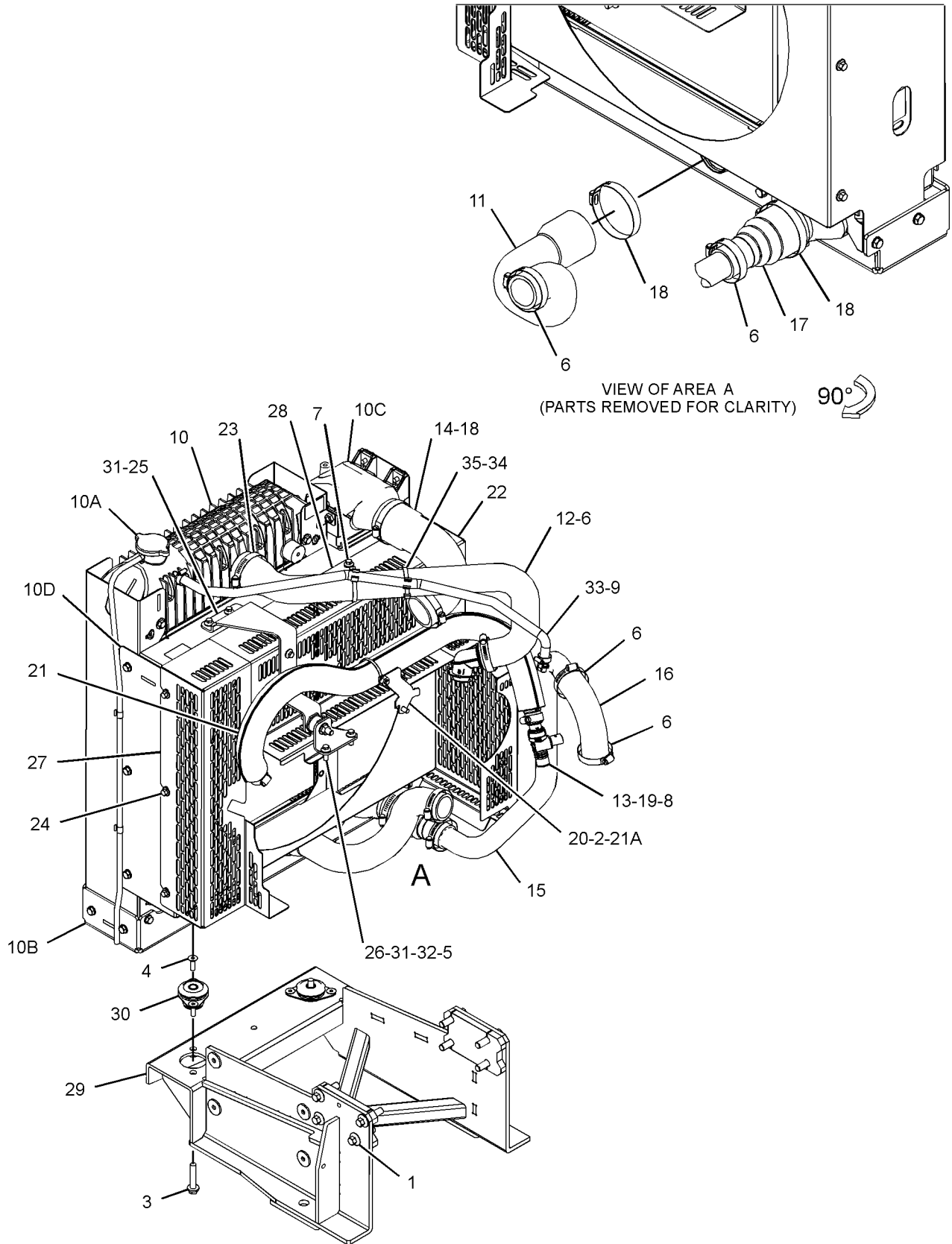
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-4616	8	BOLT (M12X1.75X45-MM)						
	2	1	100-4458	1	BOLT (M8X1.25X14-MM)						
M	3	1	100-4461	2	BOLT (M10X1.5X50-MM)						
	4	1	101-7541	4	BOLT						
	5	1	101-7546	1	MOUNT						
	6	1	103-1067	5	CLAMP-HOSE						
M	7	1	124-3815	2	BOLT (M8X1.25X16-MM)						
	8	1	149-5484	2	CLAMP-HOSE						
	9	1	388-5243	1	CONNECTOR						
	10	1	394-1361	1	COOLER AS						
	10A	1	211-6574	1	CAP-RADIATOR (16-PSI)						
	10B	1	379-8164	1	BRACKET						
	10C	1	379-8166	1	COOLER AS-CHARGE AIR						
	10D	1	379-8168	1	COWLING						
		1	394-1353	1	RADIATOR AS						
	11	1	370-6076	1	HOSE						
	12	1	370-6083	1	HOSE						
	13	1	376-1398	1	CONNECTION						
	14	1	377-6893	1	HOSE						
	15	1	384-4312	1	TUBE						
	16	1	384-5476	1	HOSE						
	17	1	384-9179	1	HOSE						
	18	1	385-7317	4	CLAMP-HOSE						
	19	1	386-1225	1	CONNECTOR-HOSE						
	20	1	386-1227	1	BRACKET AS						
	21	1	386-3821	1	HOSE AS						
	21A	1	316-9351	1	MOUNTING-CABLE TIE						
	22	1	386-9859	1	GUARD						
	23	1	388-7712	1	CLIP-HOSE						
	24	1	390-0251	6	BOLT-FLANGE HEAD (M8X1.25X40-MM)						
	25	1	394-4934	1	BRACKET						
	26	1	394-4935	1	BRACKET						
	27	1	394-7081	1	GUARD						
	28	1	395-0142	1	GUARD GP-FAN						
		1	362-8050	1	NUT						
		1	363-4208	1	BOLT						
	29	1	418-8584	1	BRACKET AS						
	30	1	420-3968	2	MOUNT AS-RADIATOR						
M	31	1	6I-0217	5	BOLT (M8X1.25X20-MM)						
	32	1	6I-0594	2	NUT (M10X1.5-THD)						
	33	1	394-2236	1	HOSE						
	34	1	395-1650	2	CLIP						
	35	1	395-1663	2	TIE						

M - METRIC PART

COOLING SYSTEM

378-3751 RADIATOR & MOUNTING GP (contd.)

i05348054



GRAPHIC #1

<END>

g03394228

COOLING SYSTEM

373-0278 REGULATOR GP-TEMPERATURE

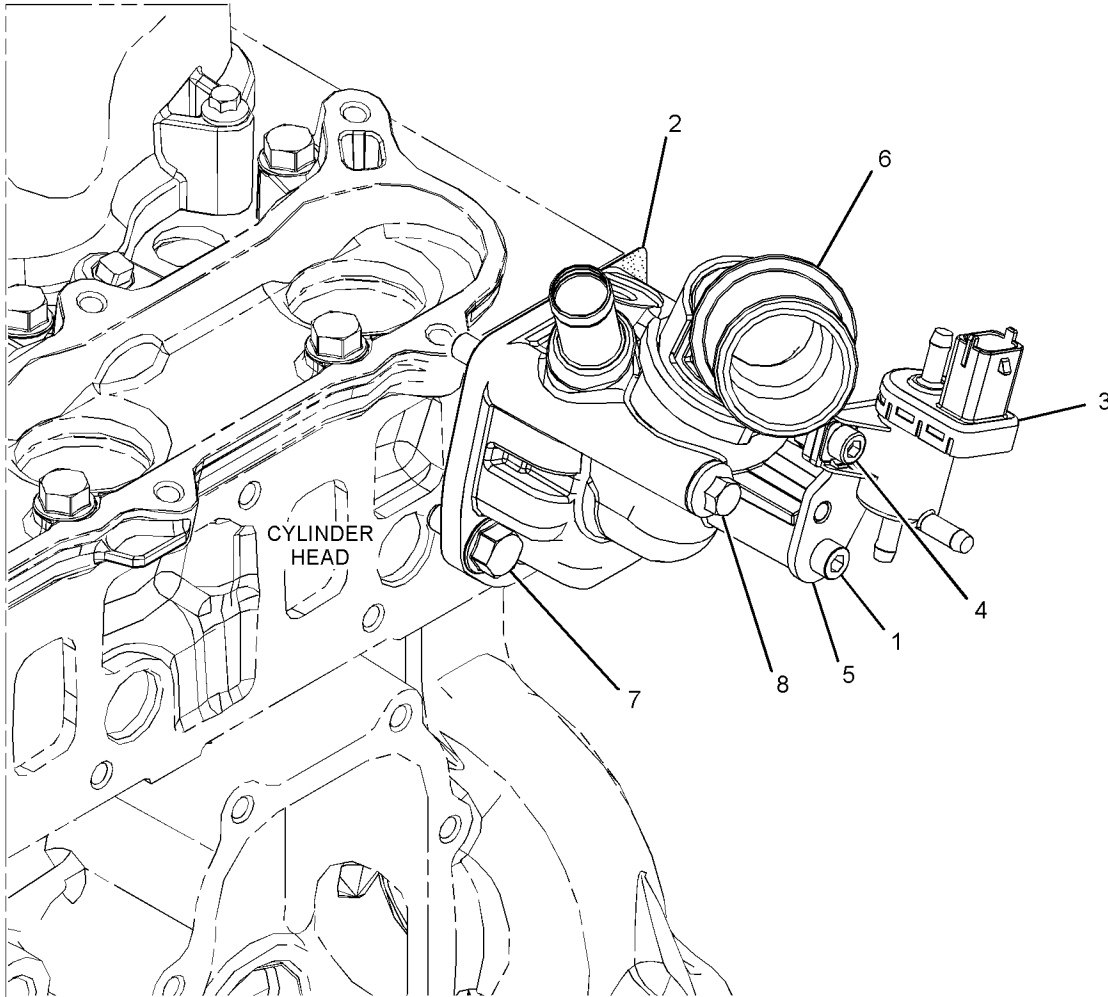
S/N: CNW1-UP

PART OF 350-1467 CONNECTION GP-WATER

SMCS-1355

i05063552

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	133-6106	1	BOLT						
	2	1	385-1422	1	GASKET						
	3	1	385-9082	1	VALVE						
	4	1	385-9087	2	SCREW						
	5	1	386-1913	1	BRACKET AS						
	6	1	386-6173	1	REGULATOR-TEMPERATURE						
	7	1	389-1874	2	BOLT						
	8	1	61-4709	2	BOLT (M8X1.25X100-MM)						



GRAPHIC #1

<END>

g02936658

AIR INLET AND EXHAUST SYSTEM

392-9543 AIR CLEANER GP

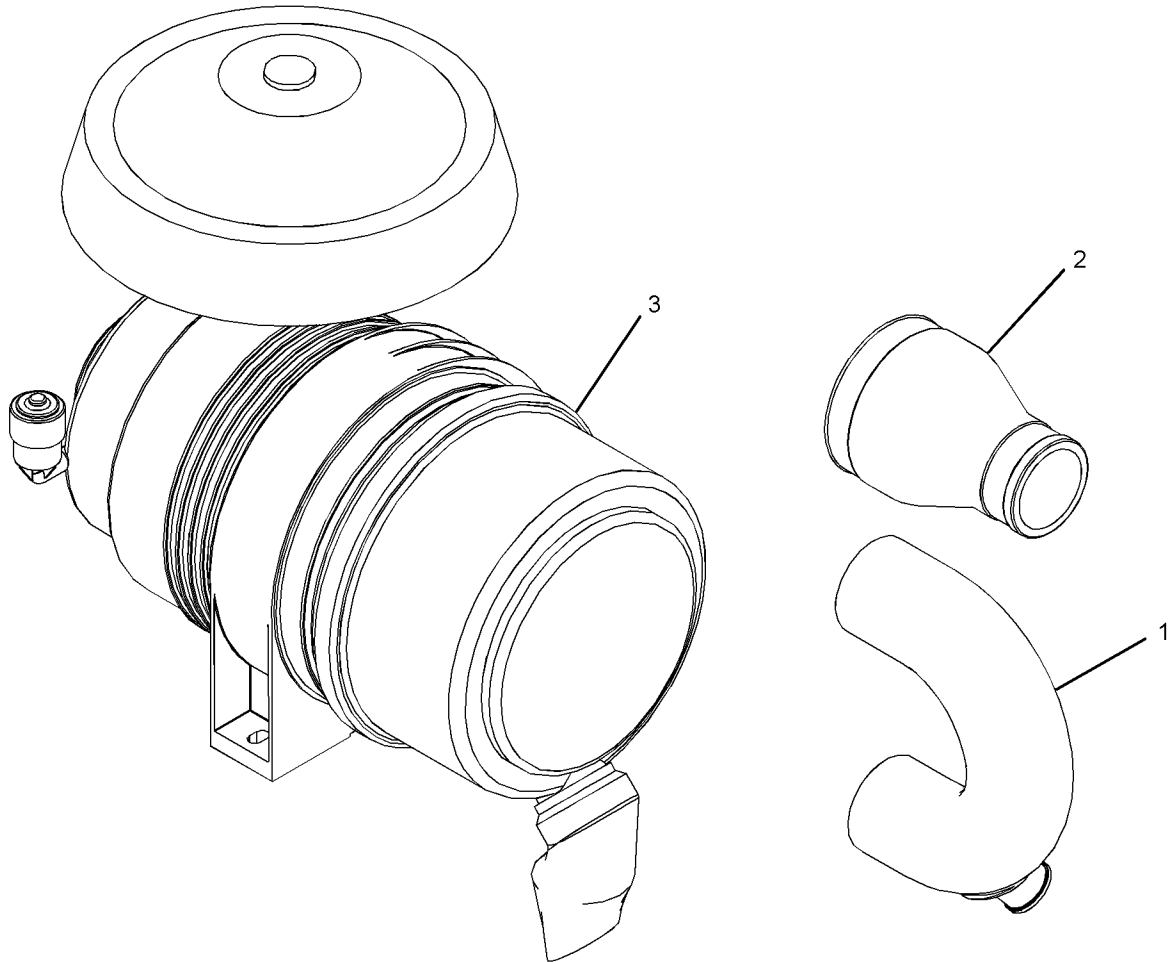
S/N: CJ31-UP

PART OF 393-3428, 393-3429, 393-3430, 393-3431 ENGINE AR-PRIMARY

SMCS-1051, 1054

i05272398

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	392-2775	1	ELBOW						
	2	1	384-9178	1	HOSE						
	3	1	416-8974	1	FILTER AS-AIR (AIR CLEANER)						



GRAPHIC #1

<END>

g03365515

AIR INLET AND EXHAUST SYSTEM

350-6576 AIR INLET & EXHAUST AR

S/N: CNW1-UP

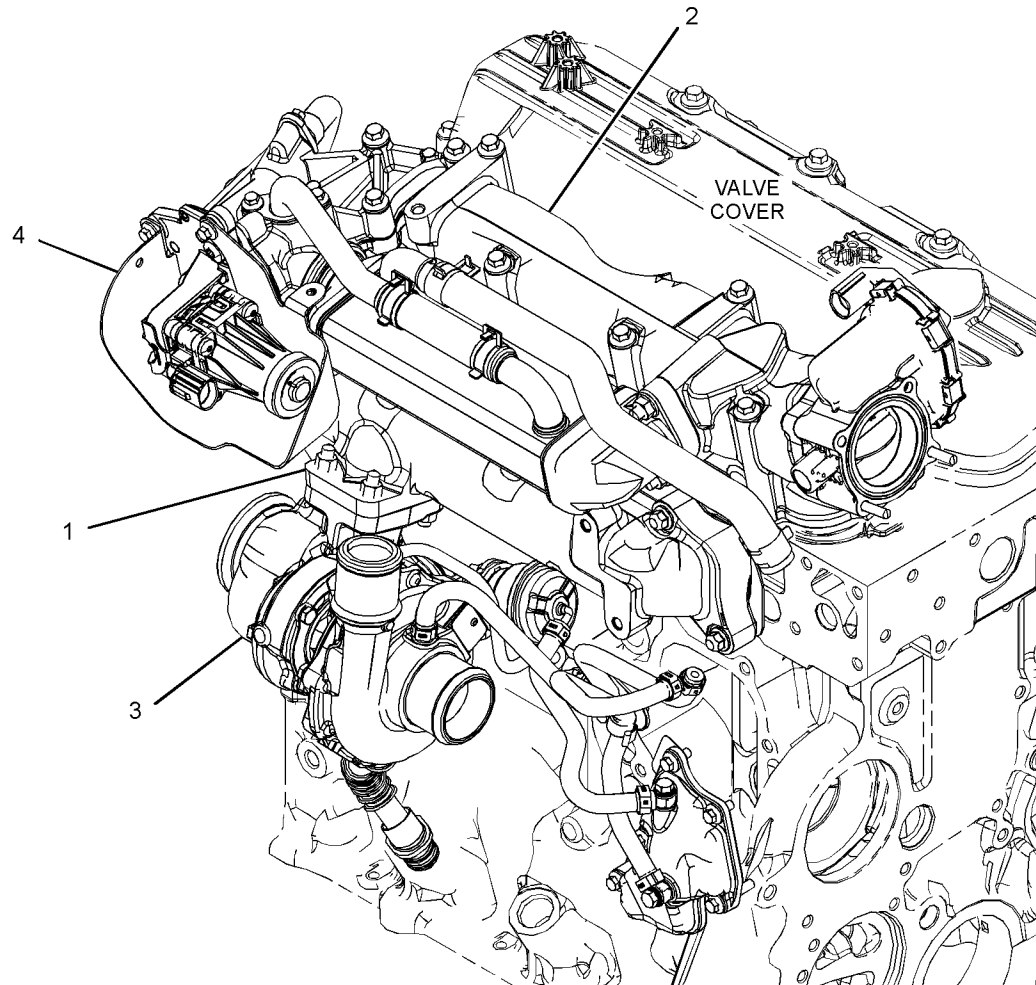
PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1052, 1058, 1059

i04892650

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	376-3419	1	MANIFOLD GP-EXHAUST	77
Y	2	1	392-0613	1	MANIFOLD GP-INLET	79
Y	3	1	392-0624	1	TURBOCHARGER GP	81
Y	4	1	392-0626	1	COOLER & MTG GP-EXHAUST (NRS)	75

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g02933816

AIR INLET AND EXHAUST SYSTEM

392-0626 COOLER & MTG GP-EXHAUST (NRS)

S/N: CNW1-UP

PART OF 350-6576 AIR INLET & EXHAUST AR

SMCS-1061, 1087, 108C

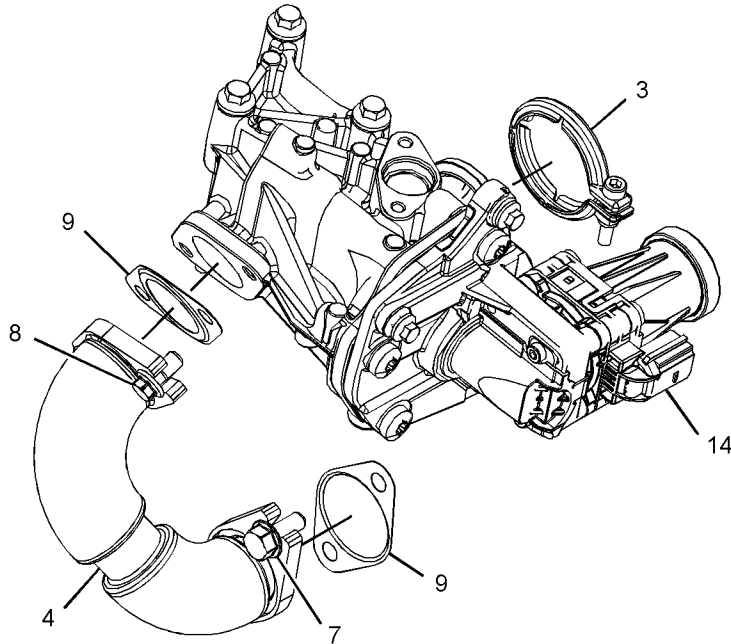
i05392697

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-4709	2	BOLT	(M8X1.25X100-MM)					
	2	1	6I-0846	3	BOLT	(M6X1X14-MM)					
	3	1	386-2068	1	CLIP						
	4	1	423-3785	1	PIPE						
	5	1	388-2068	1	BOLT						
	6	1	390-2396	2	CLIP						
	7	1	389-1874	4	BOLT						
	8	1	389-2875	2	SCREW						
	9	1	390-2419	3	GASKET						
	10	1	390-3119	1	SHIELD						
	11	1	390-3292	1	TUBE AS						
	12	1	390-3298	1	TUBE AS						
	13	1	392-0723	1	COOLER GP-EXHAUST	(NRS)					
	14	1	416-7554	1	VALVE GP-EXHAUST GAS	(NRS)					
	15	1	417-9196	1	PIPE						
	16	1	6I-0291	2	NUT	(M8X1.25-THD)					
	17	1	100-4458	1	BOLT	(M8X1.25X14-MM)					
	18	1	100-4838	3	BOLT	(M6X20-MM)					

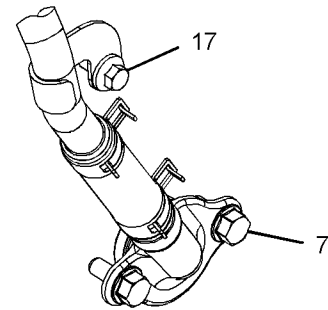
AIR INLET AND EXHAUST SYSTEM

392-0626 COOLER & MTG GP-EXHAUST (NRS) (contd.)

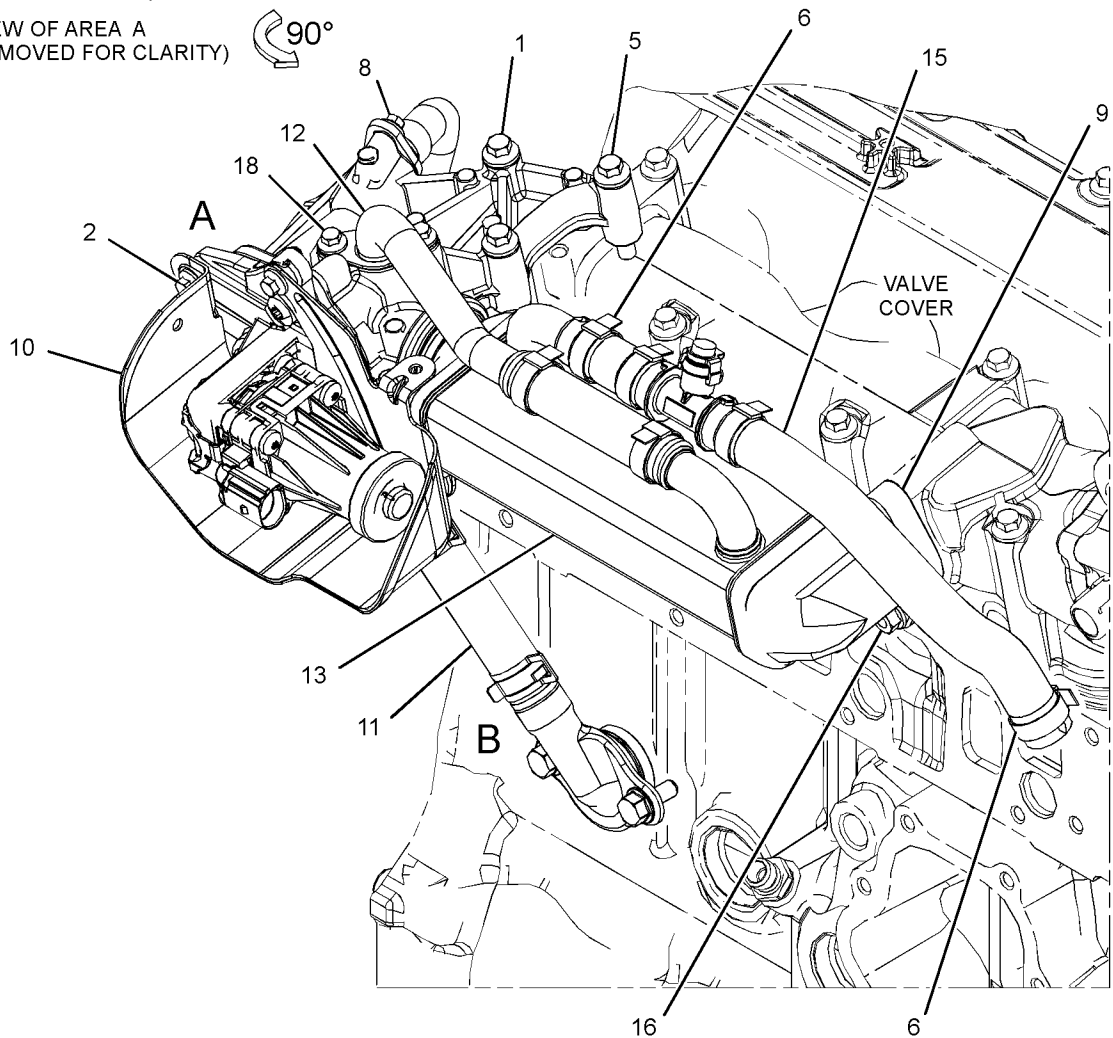
i05392697



VIEW OF AREA A
(PARTS REMOVED FOR CLARITY)



VIEW OF AREA B
(PARTS REMOVED FOR CLARITY)



GRAPHIC #1

<END>

g03429294

AIR INLET AND EXHAUST SYSTEM

376-3419 MANIFOLD GP-EXHAUST

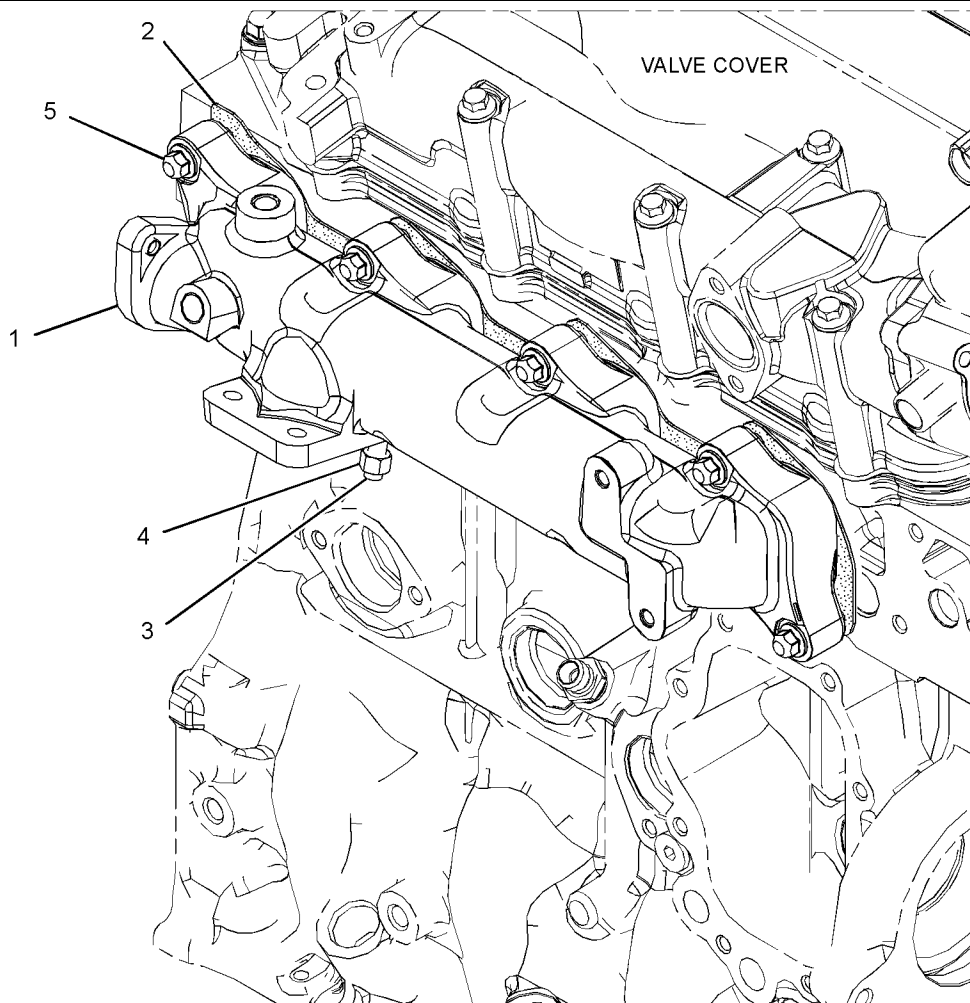
S/N: CNW1-UP

PART OF 350-6576 AIR INLET & EXHAUST AR

SMCS-1059

i04895940

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	386-2067	1	MANIFOLD						
	2	1	387-7702	1	GASKET						
	3	1	387-7725	2	STUD						
	4	1	389-1934	2	NUT						
	5	1	389-1935	8	NUT						



GRAPHIC #1

<END>

g02933778

AIR INLET AND EXHAUST SYSTEM

350-1802 MANIFOLD GP-INLET

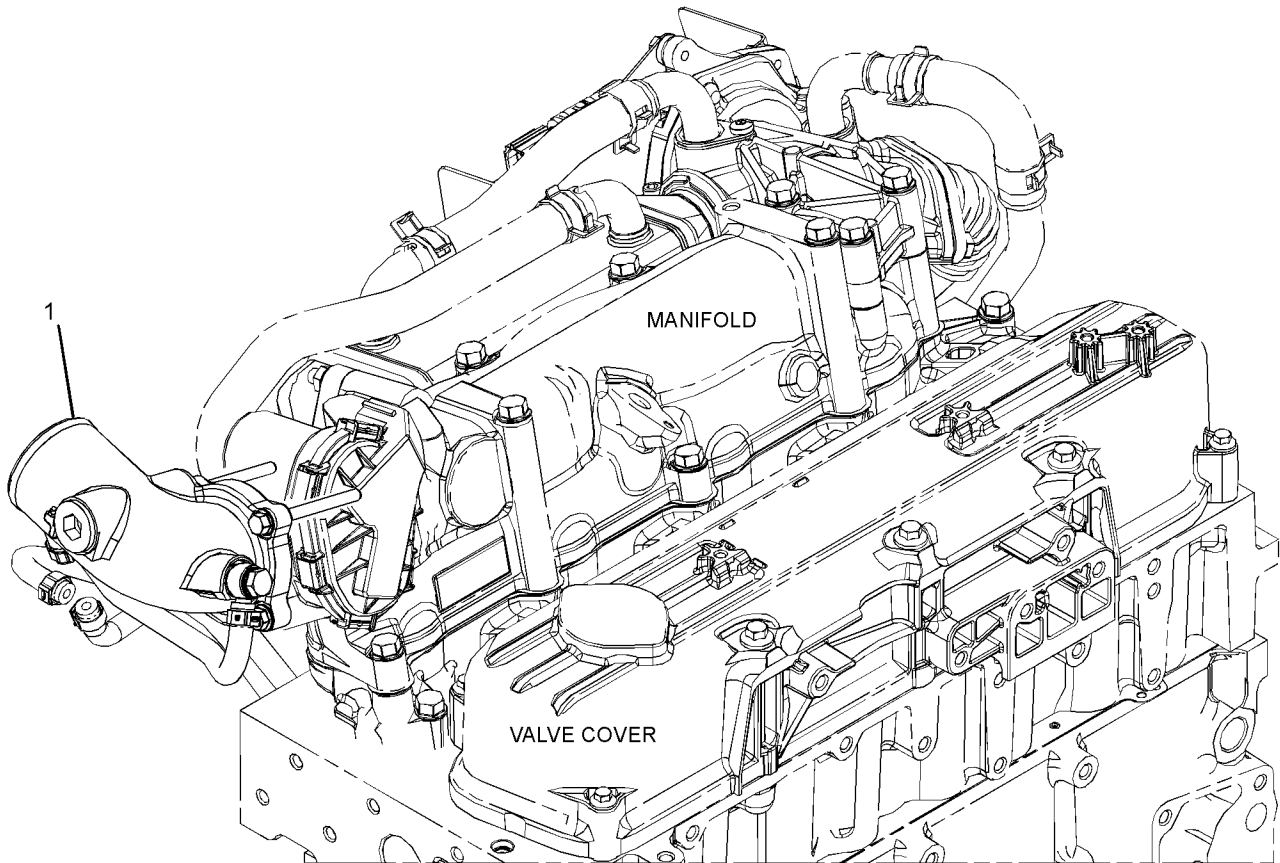
S/N: CNW1-UP

PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1058

i04919997

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	375-1422	1	MANIFOLD GP-INLET						



GRAPHIC #1

<END>

g03098178

AIR INLET AND EXHAUST SYSTEM

392-0613 MANIFOLD GP-INLET

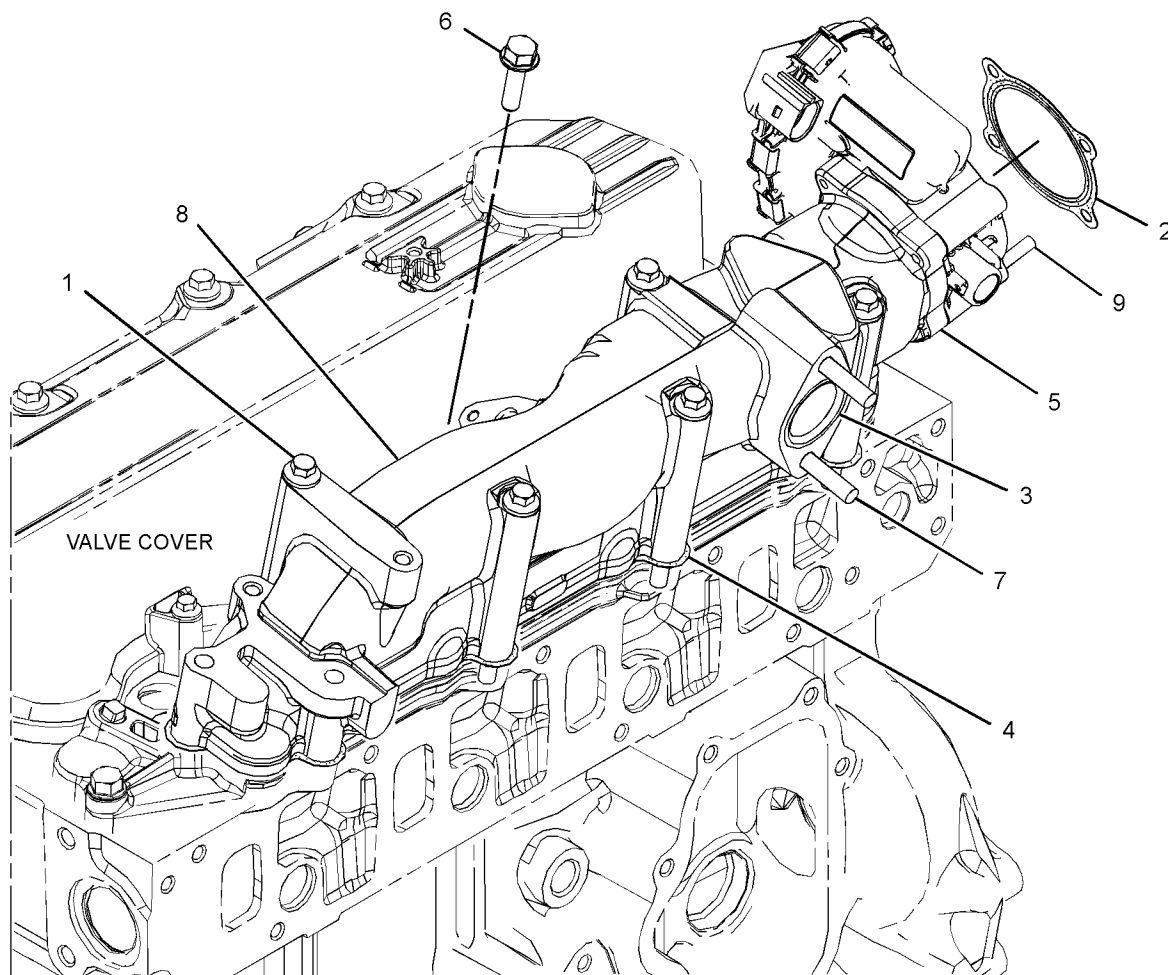
S/N: CNW1-UP

PART OF 350-6576 AIR INLET & EXHAUST AR

SMCS-1058

i04895931

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	103-5705	5	BOLT (M8X1.25X110-MM)						
	2	1	386-2783	1	GASKET						
	3	1	386-2911	1	PIPE						
	4	1	388-0525	1	GASKET						
	5	1	388-7618	1	VALVE-THROTTLE						
	6	1	389-1920	2	BOLT						
	7	1	390-0316	2	STUD						
	8	1	390-2669	1	MANIFOLD AS						
	9	1	393-7228	2	STUD						



GRAPHIC #1

<END>

g02933719

AIR INLET AND EXHAUST SYSTEM

358-1416 MODULE AR-CLEAN EMISSIONS

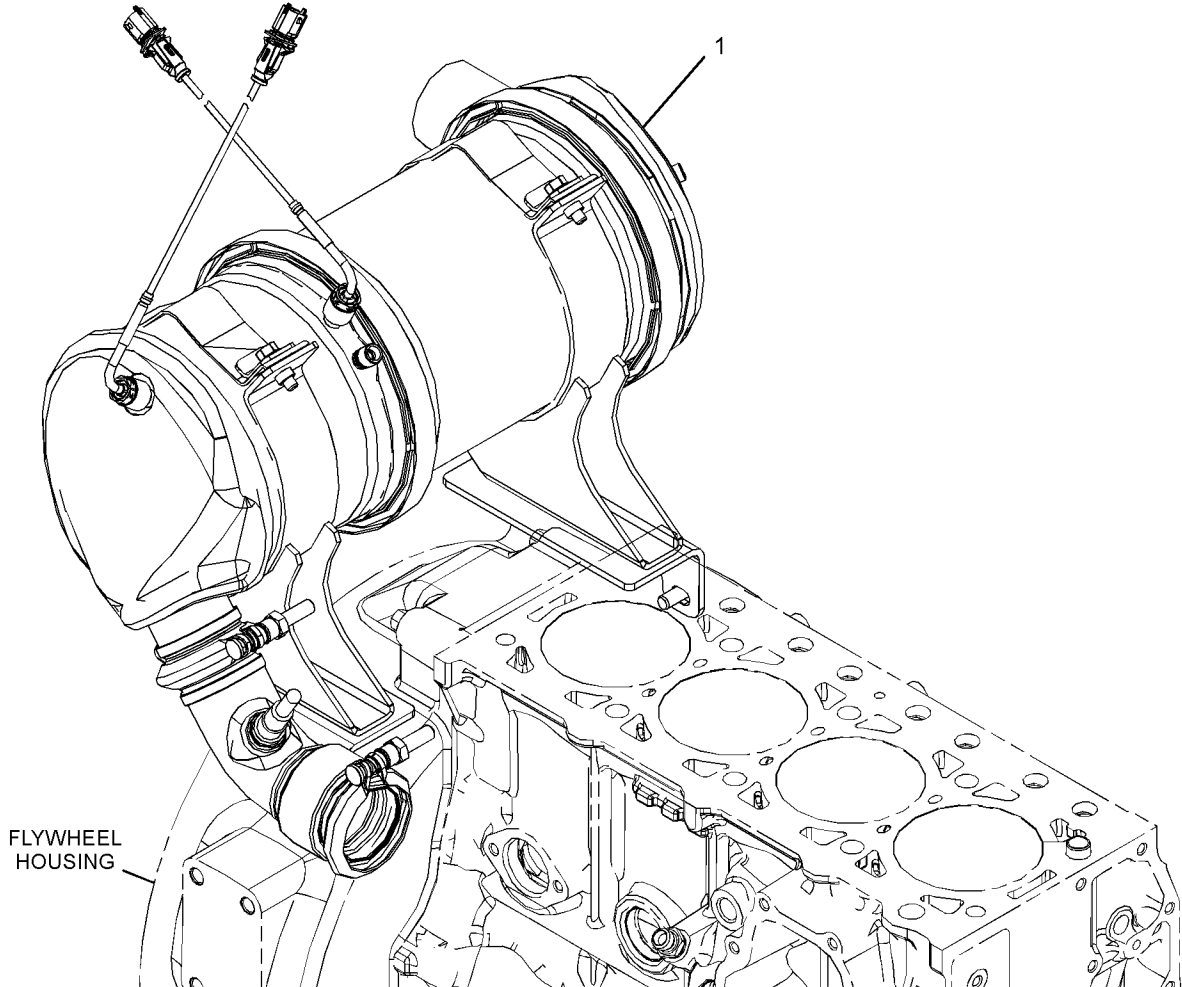
S/N: CNW1-UP

PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1050, 108D

i04897409

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	373-0287	1	MODULE AR-CLEAN EMISSIONS						



GRAPHIC #1

<END>

g03042936

AIR INLET AND EXHAUST SYSTEM

392-0624 TURBOCHARGER GP

S/N: CNW1-UP

PART OF 350-6576 AIR INLET & EXHAUST AR

SMCS-1052, 1053

i05075252

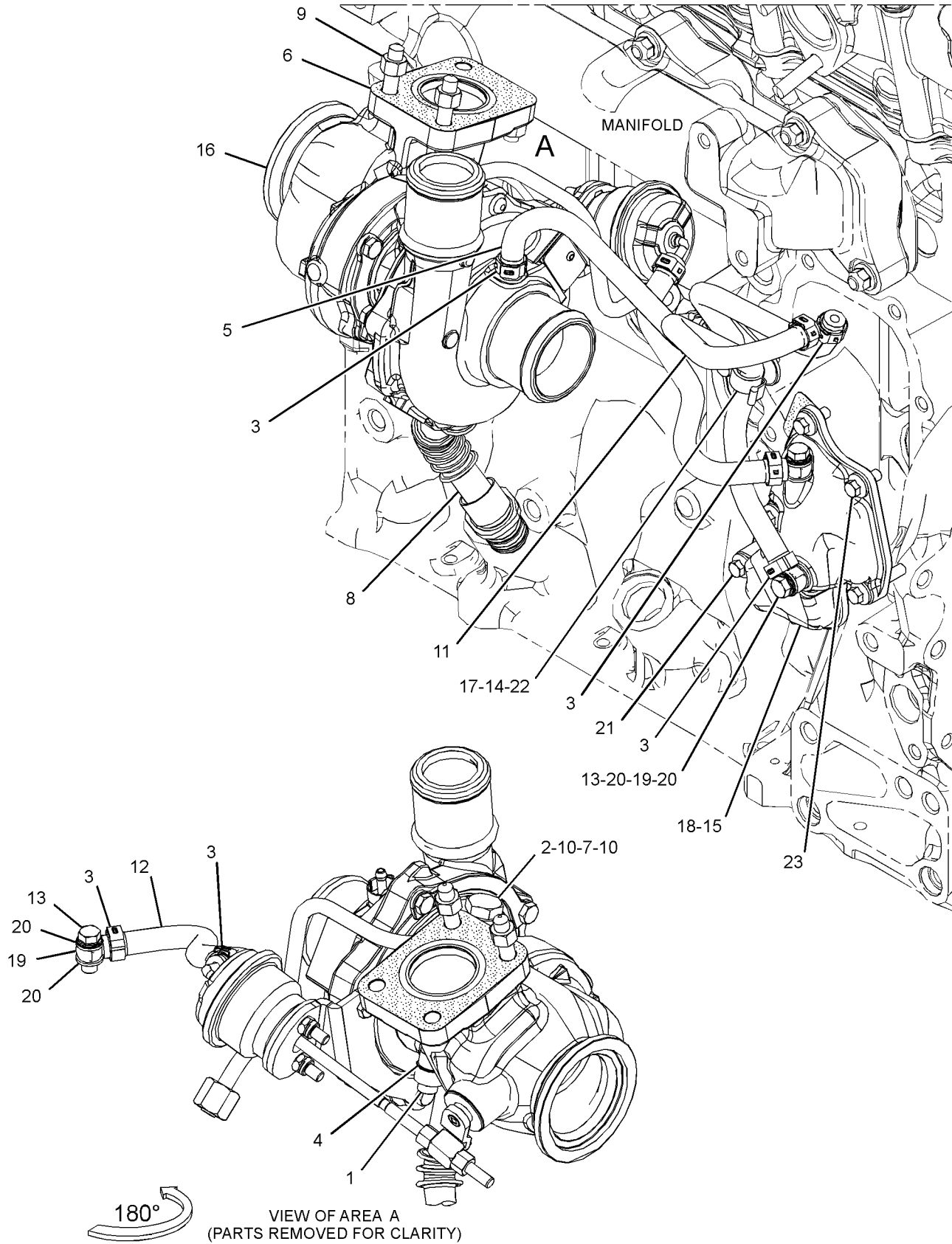
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	133-6106	2	BOLT						
	2	1	386-0164	1	SCREW						
	3	1	417-8448	6	CLIP						
	4	1	386-6368	1	GASKET						
	5	1	386-6453	1	PIPE						
	6	1	387-7697	1	GASKET						
	7	1	387-8112	1	TUBE						
	8	1	387-8113	1	TUBE						
	9	1	389-1934	2	NUT						
	10	1	389-2855	2	WASHER						
	11	1	390-2381	1	PIPE						
	12	1	390-2382	1	PIPE						
	13	1	390-2386	2	BOLT						
	14	1	390-2397	2	CLIP						
	15	1	390-2468	1	GASKET						
	16	1	390-3178	1	TURBOCHARGER AS						
	17	1	392-0743	1	BRACKET AS						
	18	1	392-0744	1	COVER						
	19	1	392-2037	2	CONNECTOR						
	20	1	392-2147	4	WASHER						
	21	1	112-7704	3	BOLT						
M	22	1	124-3815	1	BOLT (M8X1.25X16-MM)						
	23	1	6I-0846	3	BOLT (M6X1X14-MM)						

M - METRIC PART

AIR INLET AND EXHAUST SYSTEM

392-0624 TURBOCHARGER GP (contd.)

i05075252



g02953199

FUEL SYSTEM

355-7262 FILTER GP-FUEL

S/N: CNW1-UP

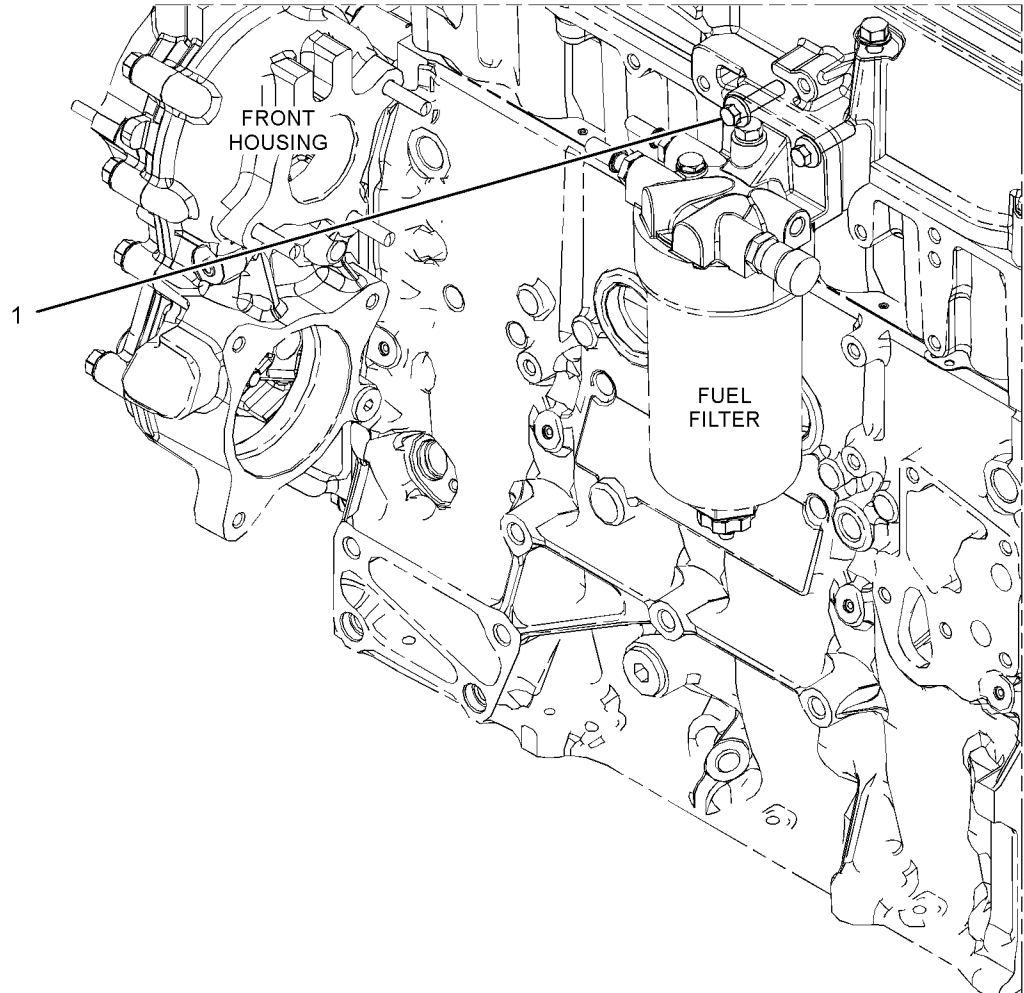
PART OF 350-1817 LINES GP-FUEL FILTER

SMCS-1261

i05425261

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0254	2	BOLT (M8X1.25X30-MM)						

M - METRIC PART



GRAPHIC #1

<END>

g03436122

FUEL SYSTEM

360-8958 FILTER GP-FUEL

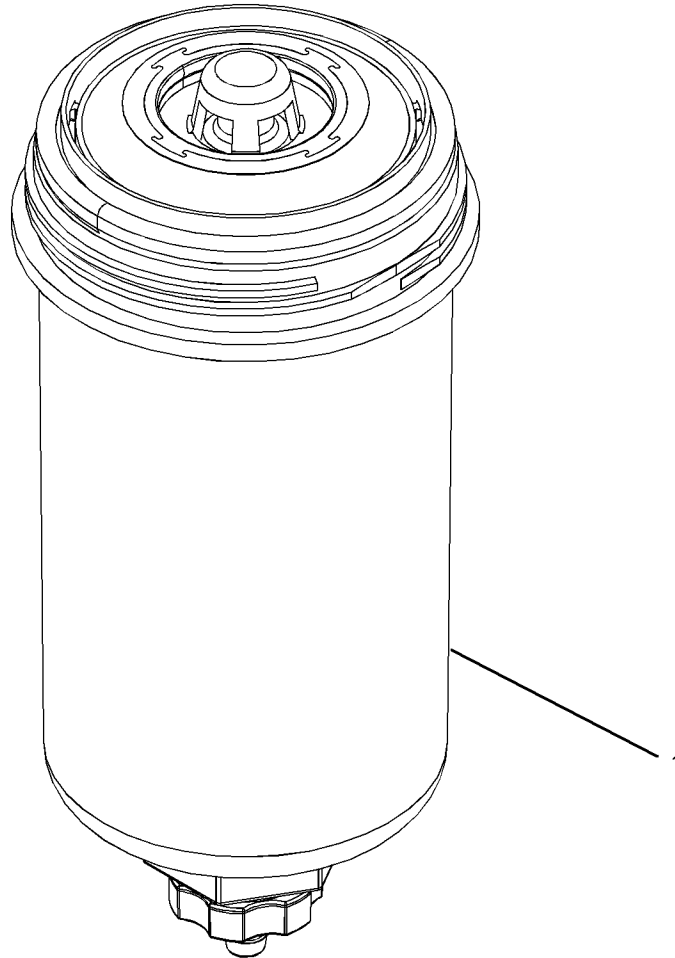
S/N: CNW1-UP

PART OF 418-3788 LINES GP-FUEL

SMCS-1261

i04994745

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

378-2706 FILTER GP-PRIMARY FUEL

S/N: CJ31-UP

PART OF 393-3428, 393-3429, 393-3430, 393-3431 ENGINE AR-PRIMARY

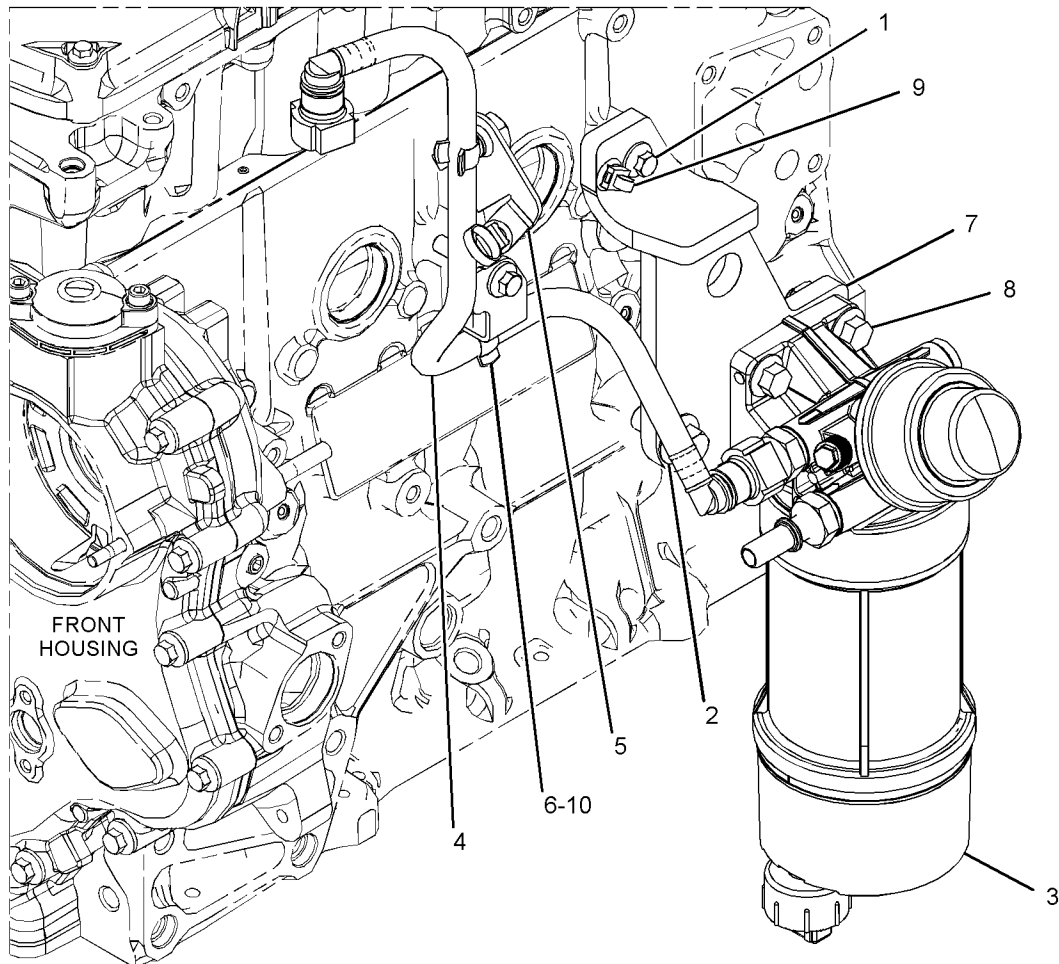
SMCS-1260, 1261

i05350021

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)	86
M	2	1	102-9941	1	BOLT (M12X1.75X25-MM)	
Y	3	1	369-6036	1	FILTER GP-WATER SEP & FUEL	
	4	1	382-3080	1	LINE AS-FUEL	
	5	1	384-5309	1	SUPPORT GP-LINES	
		1	316-9351	1	MOUNTING-CABLE TIE	
		1	334-8571	1	CLIP-PIPE	
	6	1	384-5311	1	SUPPORT GP-LINES	
		1	334-8571	1	CLIP-PIPE	
	7	1	385-6758	1	BRACKET AS	
	8	1	111-0859	2	BOLT (M10X1.5X35-MM)	
	9	1	316-9351	1	MOUNTING-CABLE TIE	
	10	1	6I-1090	1	BOLT (M8X1.25X40-MM)	

M - METRIC PART

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03066839

FUEL SYSTEM

369-6036 FILTER GP-WATER SEP & FUEL

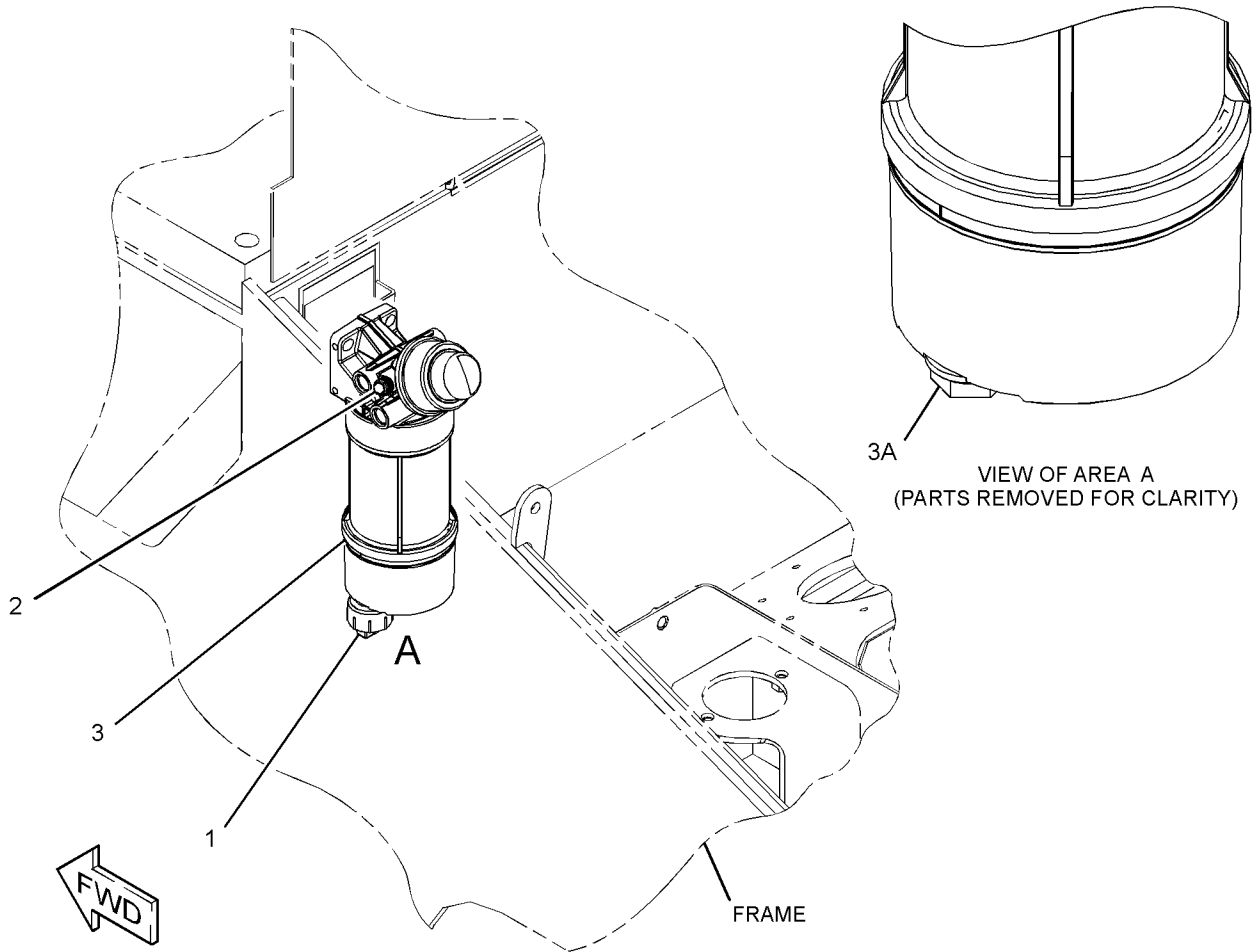
S/N: CJ31-UP

PART OF 378-2706 FILTER GP-PRIMARY FUEL

SMCS-1261, 1263

i05349869

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	291-6570	1	SENSOR AS-LIQUID LEVEL (FUEL, WATER SEPARATOR)						
	2	1	362-8205	1	SCREW-SPECIAL						
	3	1	357-7740	1	FILTER GP-WATER SEP & FUEL						
	3A	1	317-2236	1	PLUG-THREADED						



GRAPHIC #1

<END>

g03394284

FUEL SYSTEM

368-9611 INJECTOR GP-FUEL

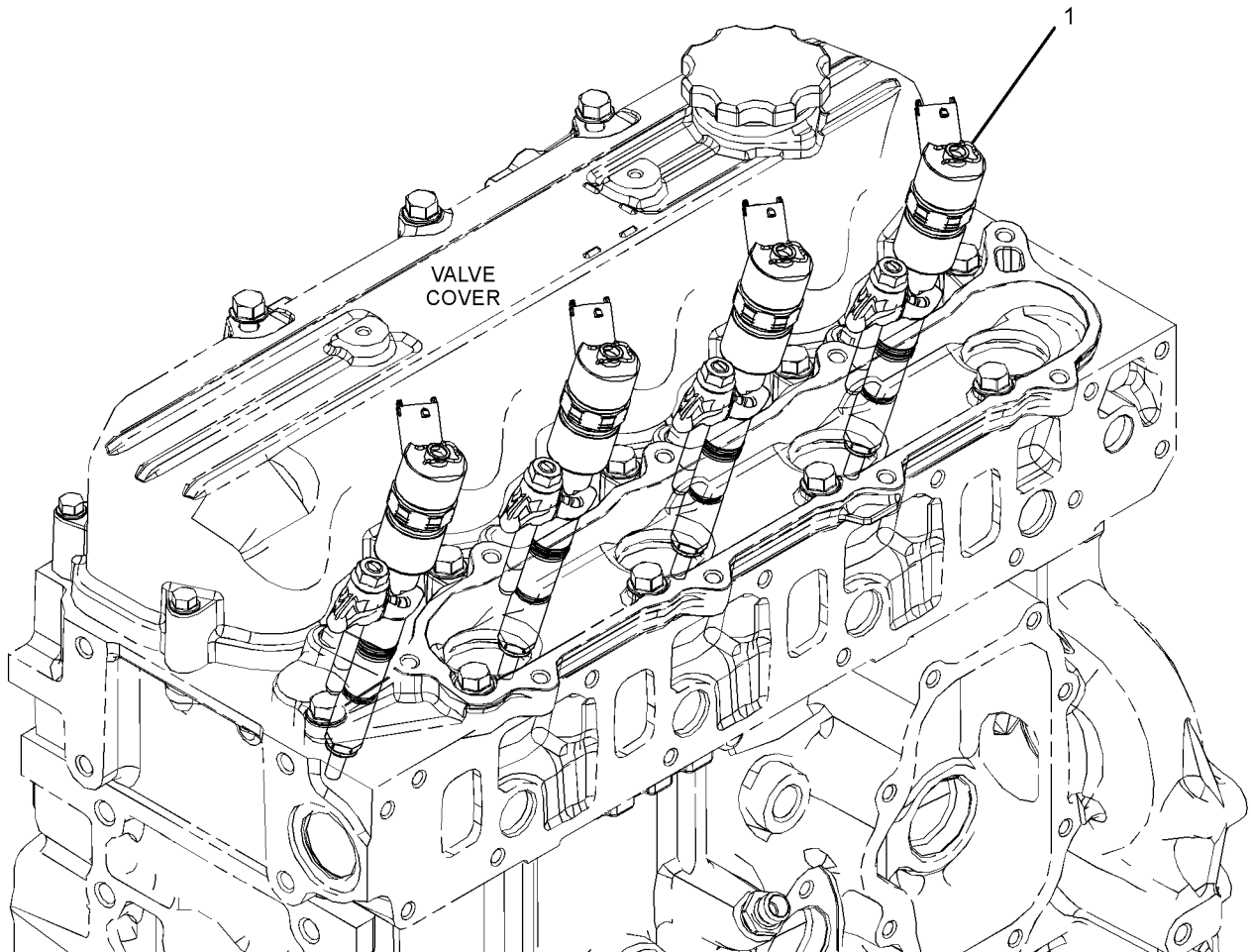
S/N: CNW1-UP

PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1251, 1254, 1290, 1713

i04892656

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	375-1395	1	INJECTOR GP-FUEL						88
Y - SEPARATE ILLUSTRATION											



GRAPHIC #1

<END>

g02888956

FUEL SYSTEM

375-1395 INJECTOR GP-FUEL

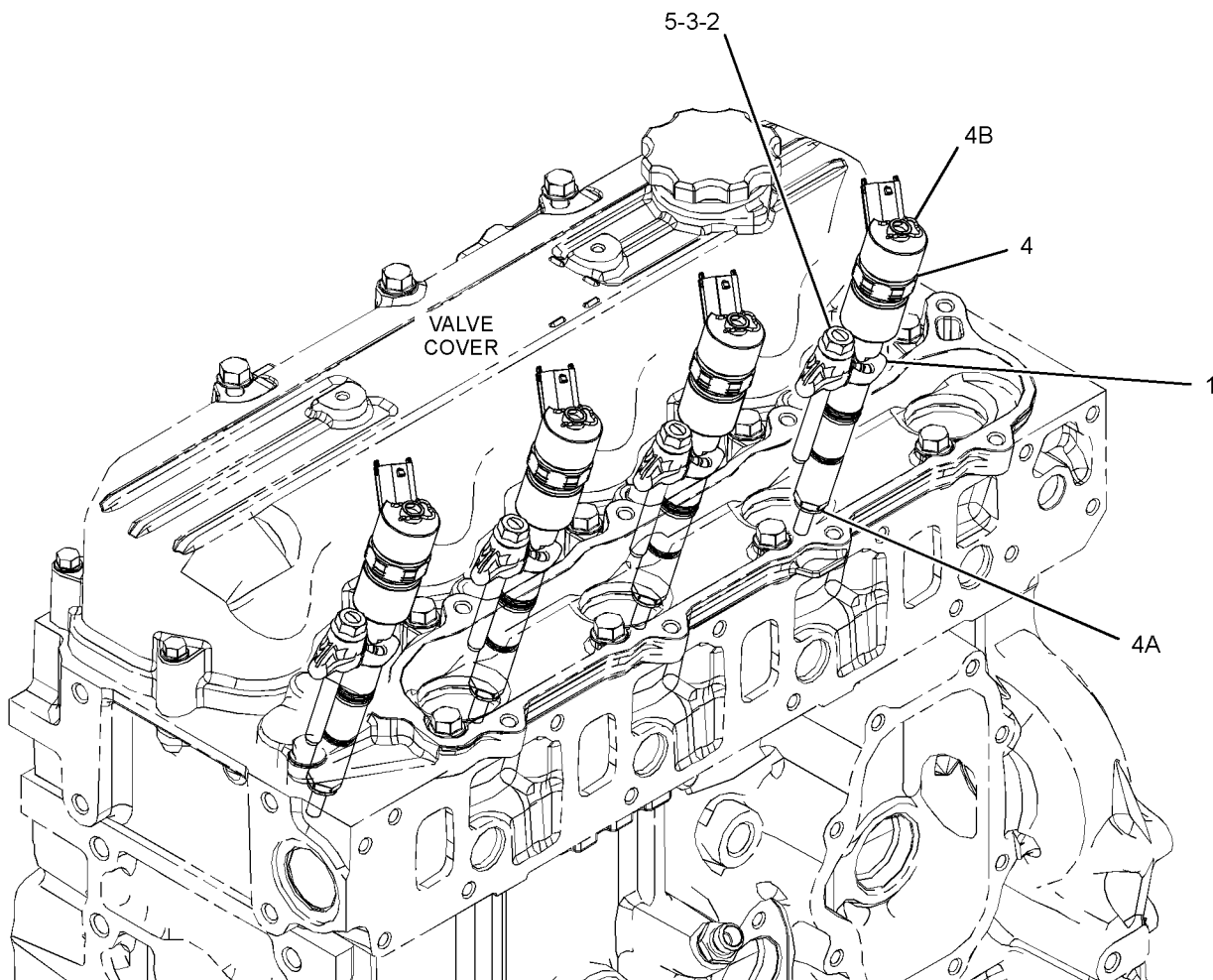
S/N: CNW1-UP

PART OF 368-9611 INJECTOR GP-FUEL

SMCS-1251, 1254, 1290, 1713

i05296215

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	379-3664	4	BRACKET						
	2	1	390-0318	4	STUD						
	3	1	389-2862	4	WASHER						
	4	1	392-0708	4	INJECTOR AS-FUEL						
					(EACH INCLUDES)						
	4A	1	392-0710	1	SEAL						
	4B	1	437-9324	1	CLIP						
	5	1	6I-0291	4	NUT (M8X1.25-THD)						
					AVAILABLE REPAIR KIT(S) :						
			388-1289	1	KIT-FUEL SYSTEM PARTS						
					(INCLUDES CAPS)						



GRAPHIC #1

<END>

g03371733

FUEL SYSTEM

418-3788 LINES GP-FUEL

S/N: CNW1-UP

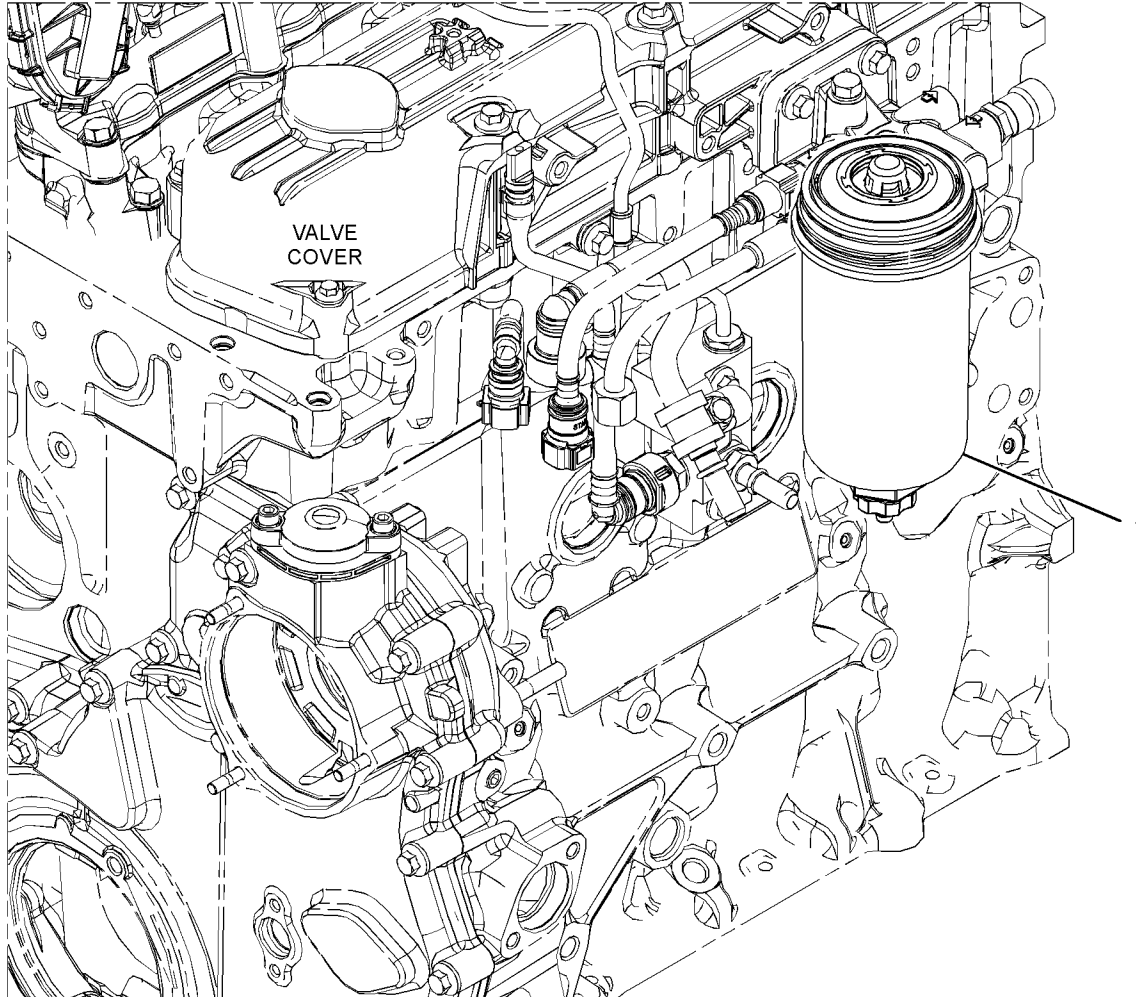
PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1274

i05206369

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						84

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03334746

FUEL SYSTEM

350-1817 LINES GP-FUEL FILTER

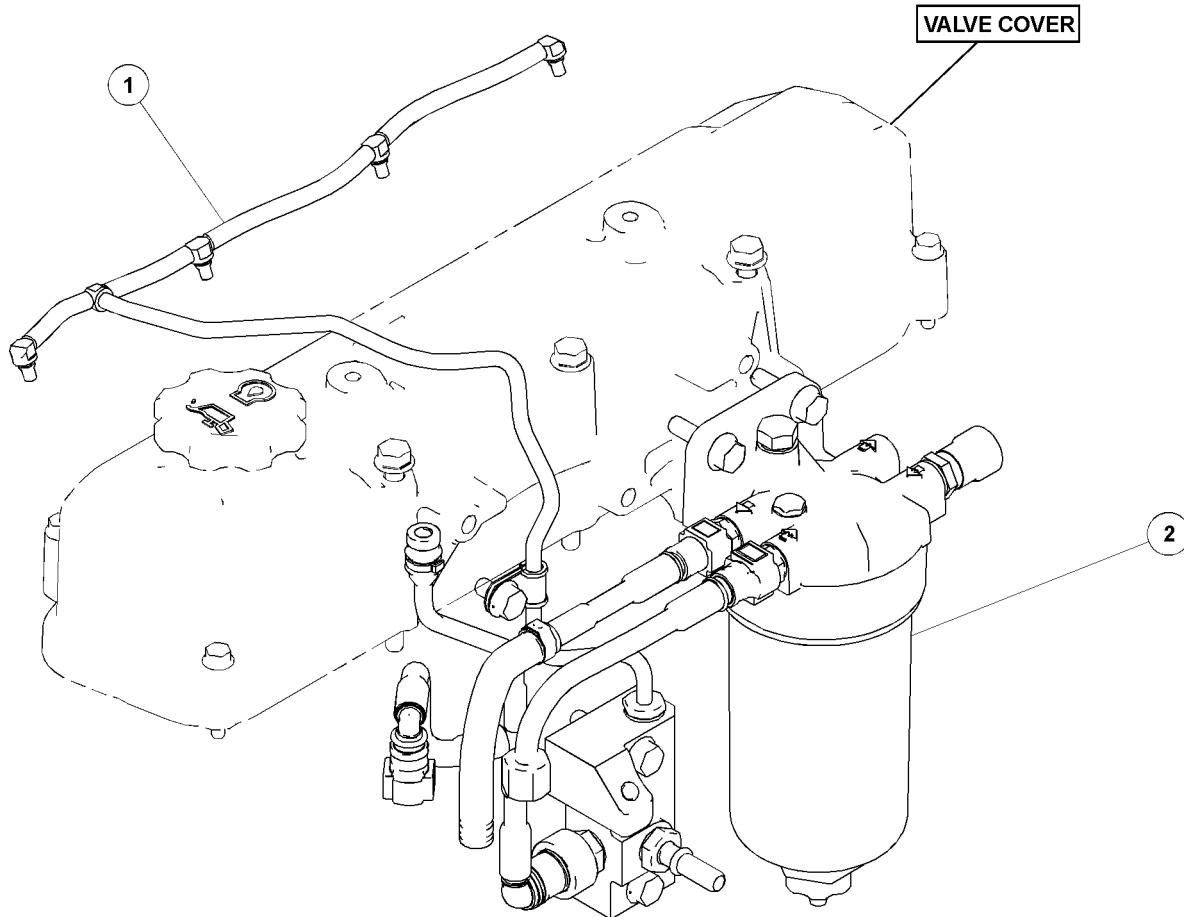
S/N: CNW1-UP

PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1261, 1274

i04919991

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	355-7261	1	LINE AS						
Y	2	1	355-7262	1	FILTER GP-FUEL						83
Y - SEPARATE ILLUSTRATION											



GRAPHIC #1

<END>

g03096936

FUEL SYSTEM

350-3754 PUMP GP-FUEL INJECTION

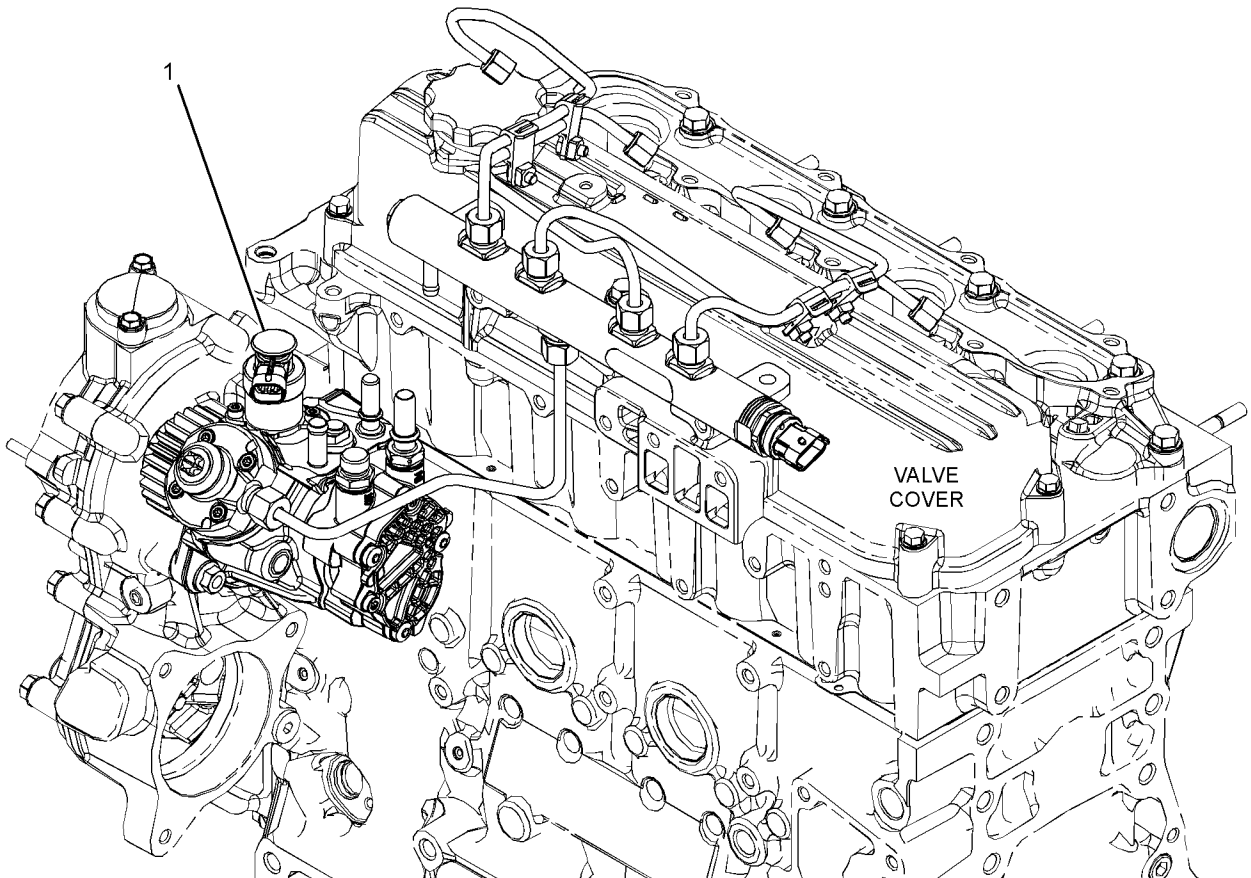
S/N: CNW1-UP

PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1251, 1290

i04894769

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	374-6262	1	PUMP	GP-FUEL	INJECTION				92
Y - SEPARATE ILLUSTRATION											



GRAPHIC #1

<END>

g02880620

FUEL SYSTEM

374-6262 PUMP GP-FUEL INJECTION

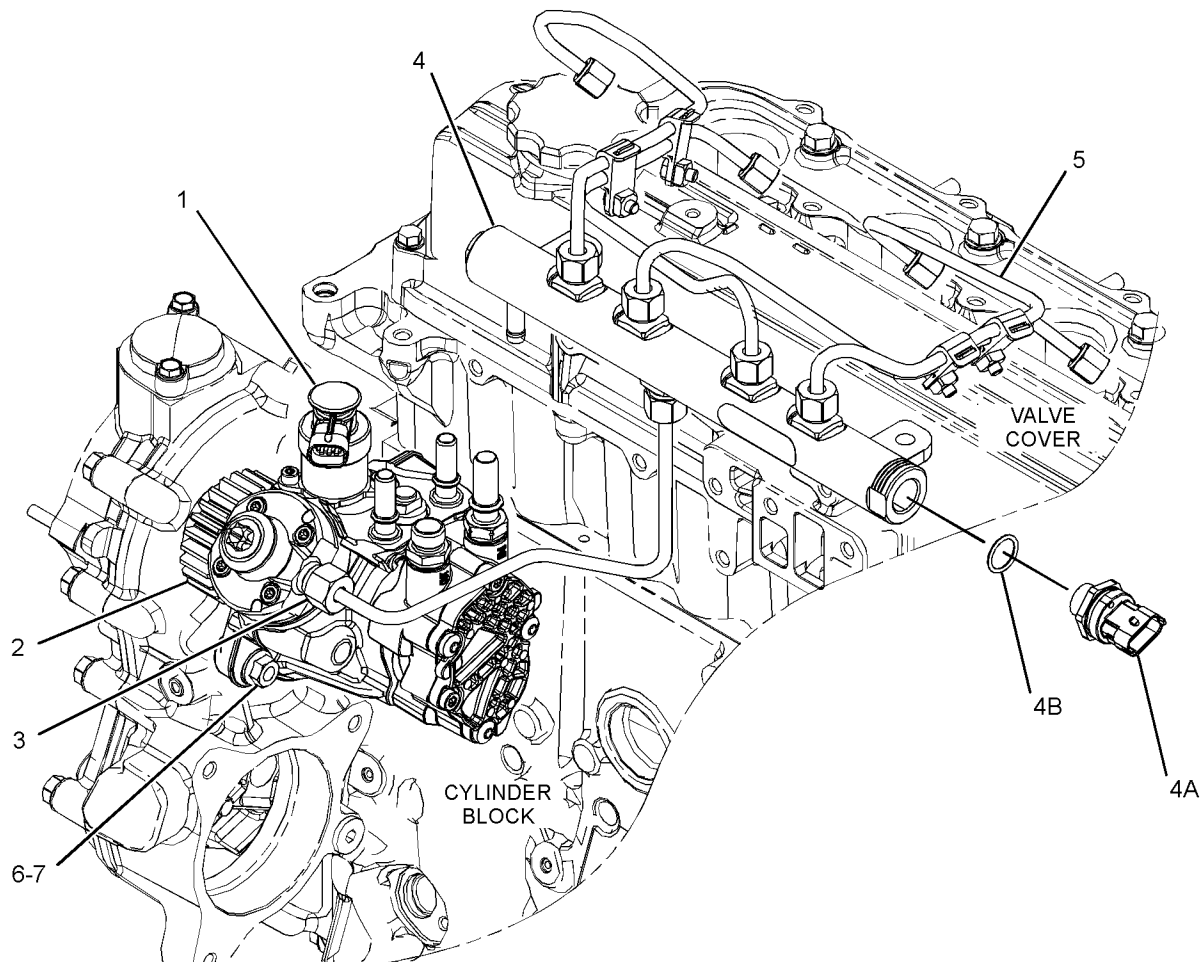
S/N: CNW1-UP

PART OF 350-3754 PUMP GP-FUEL INJECTION

SMCS-1251, 1290

i05326944

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	390-3122	1	PUMP AS-FUEL INJECTION	
	2	1	386-2096	1	GEAR	
	3	1	386-6311	1	LINE AS-FUEL	
	4	1	390-2615	1	RAIL GP-FUEL	
	4A	1	396-3744	1	SENSOR	
	4B	1	396-3745	1	SEAL	
		1	396-3724	1	VALVE AS-RELIEF	
	5	1	387-9141	1	LINE AS-FUEL	
	6	1	6I-0291	3	NUT (M8X1.25-THD)	
	7	1	7W-2632	3	WASHER (8.5X16.8X1.6-MM THK)	
					AVAILABLE REPAIR KIT(S):	
				388-1289	1	KIT-FUEL SYSTEM PARTS
					(INCLUDES CAPS)	



GRAPHIC #1

<END>

g03352809

ELECTRICAL AND STARTING SYSTEM

374-6762 ALTERNATOR AS-CHARGING

S/N: CNW1-UP

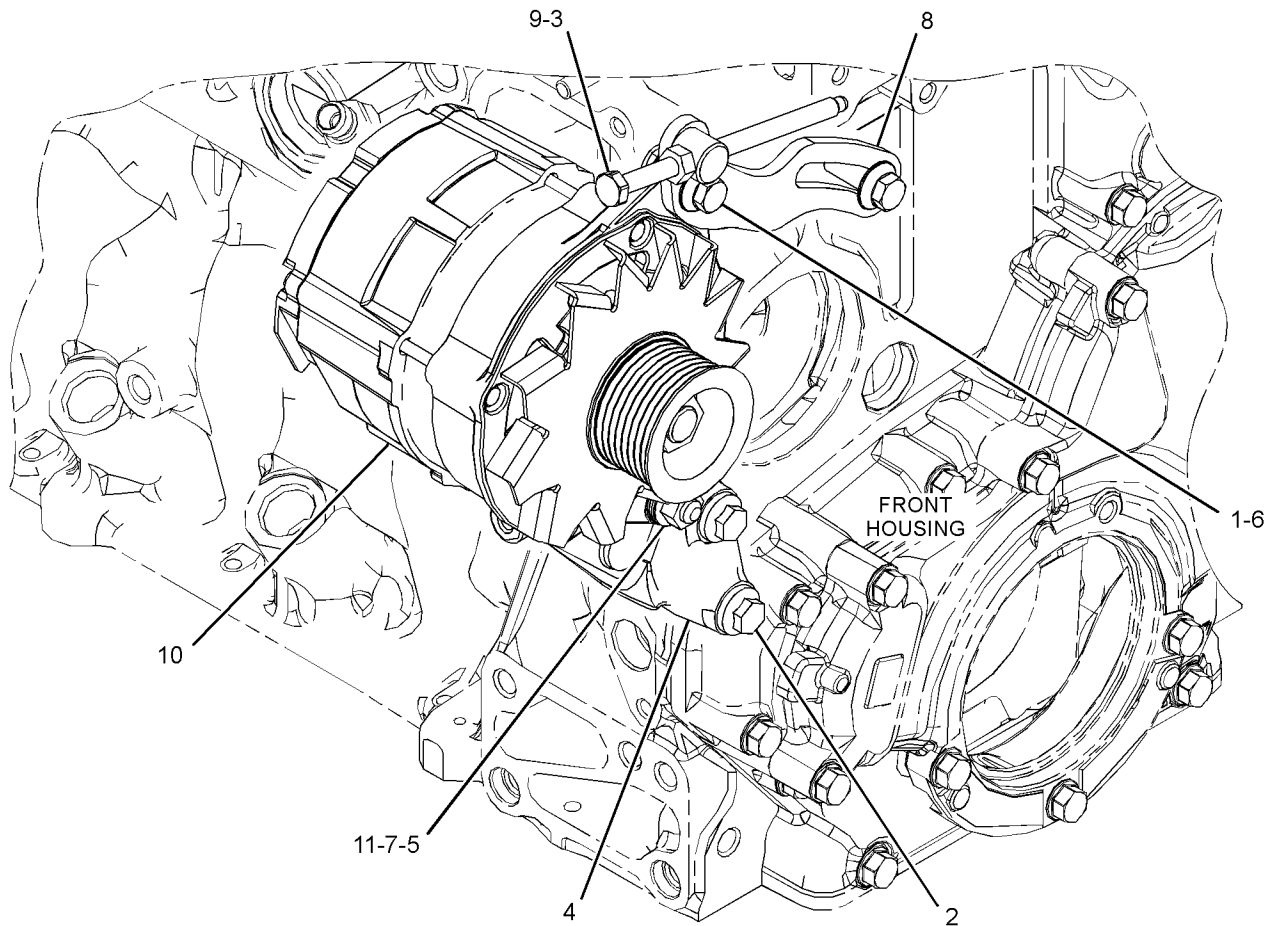
PART OF 350-6267 ALTERNATOR GP-CHARGING

SMCS-1405

i05205962

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	100-4461	2	BOLT (M10X1.5X50-MM)						
	3	1	152-6578	1	NUT						
	4	1	385-9093	1	BRACKET						
	5	1	389-2722	1	BOLT						
	6	1	389-2854	1	NUT						
	7	1	389-2857	2	WASHER						
	8	1	390-2387	1	TENSIONER						
	9	1	393-0383	1	BOLT						
	10	1	417-8415	1	ALTERNATOR						
	11	1	6I-0594	1	NUT (M10X1.5-THD)						

M - METRIC PART



GRAPHIC #1

<END>

g03341898

ELECTRICAL AND STARTING SYSTEM

350-6267 ALTERNATOR GP-CHARGING

S/N: CNW1-UP

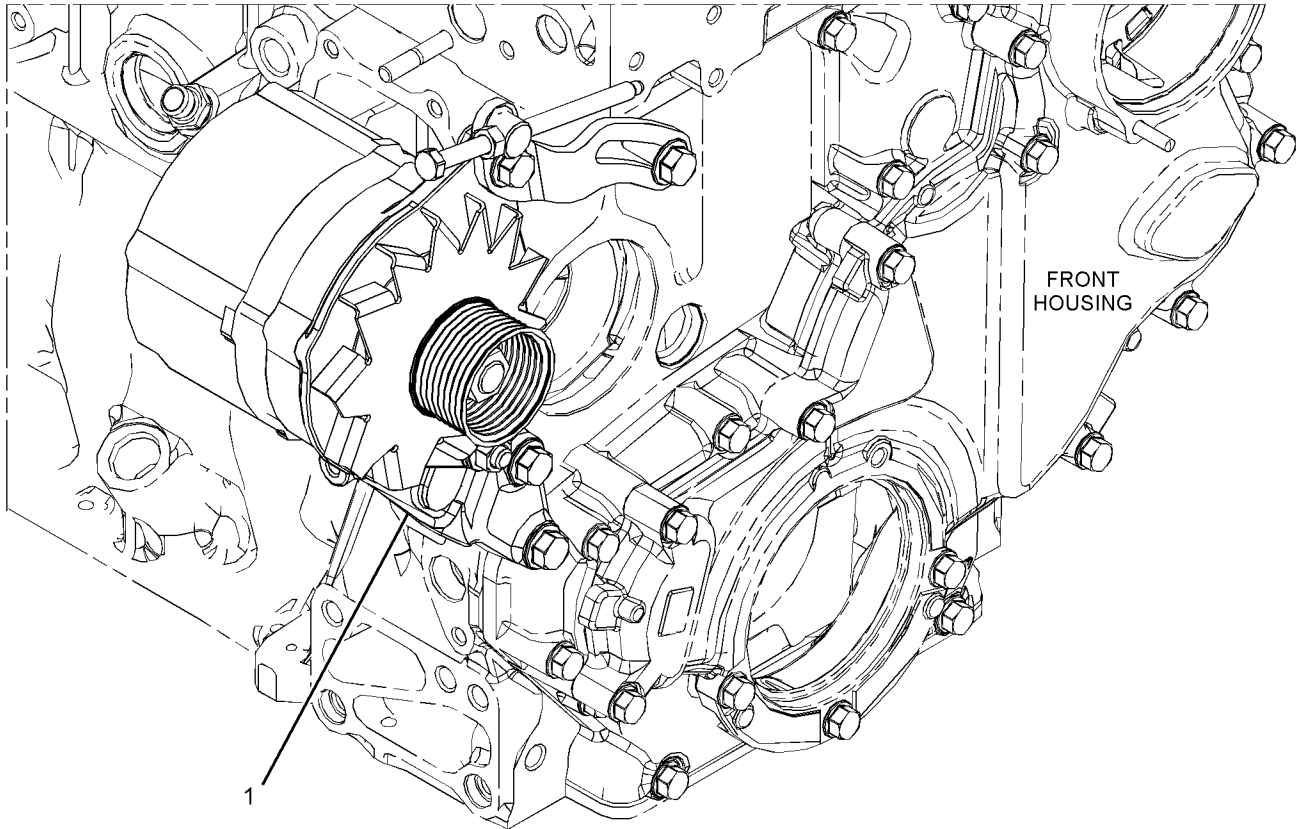
PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1405

i05205964

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	374-6762	1	ALTERNATOR AS (CHARGING)						93

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03098542

ELECTRICAL AND STARTING SYSTEM

378-8264 CONTROL & MTG GP-ELECTRONIC

S/N: CJ31-UP

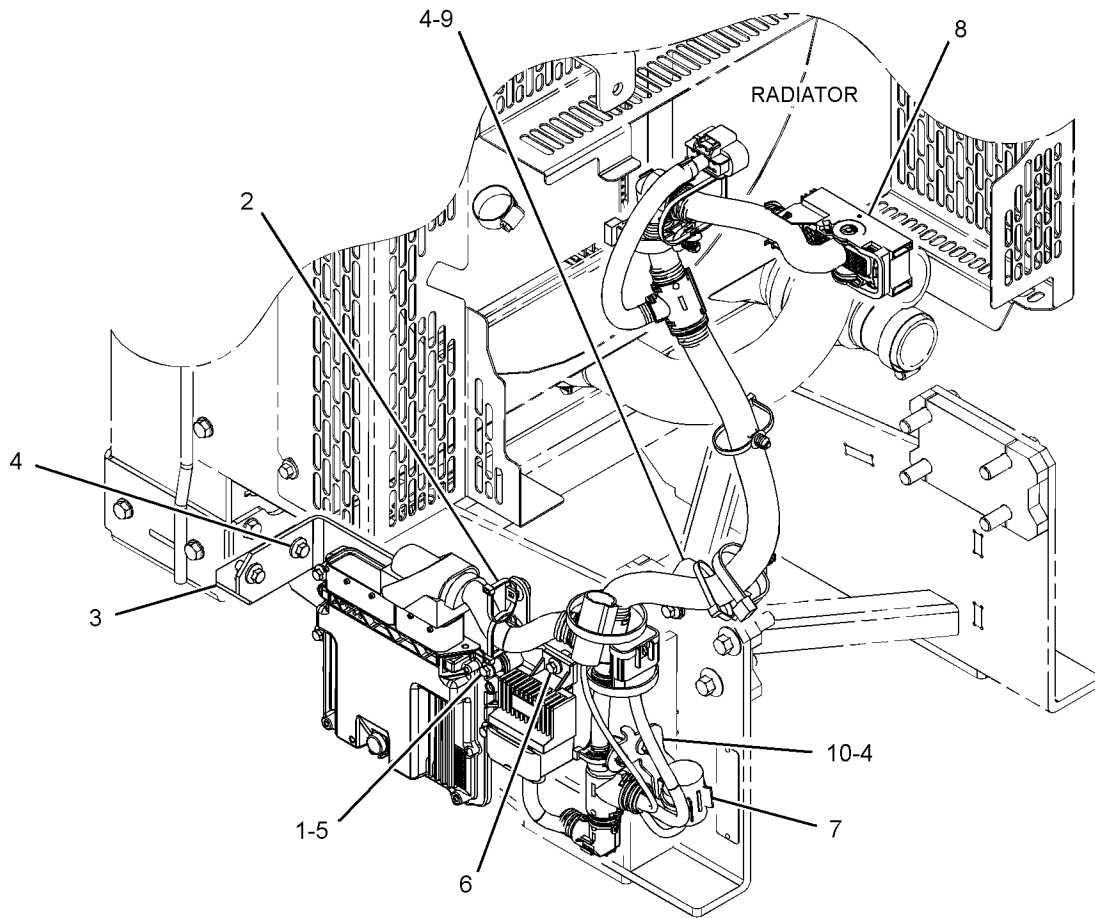
PART OF 393-3428, 393-3429, 393-3430, 393-3431 ENGINE AR-PRIMARY

SMCS-1901, 7610

i05348048

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	100-4838	4	BOLT (M6X20-MM)						
	2	1	206-1345	2	STRAP-CABLE						
	3	1	423-6870	1	BRACKET AS						
M	4	1	124-3815	6	BOLT (M8X1.25X16-MM)						
	5	1	424-0036	4	BOBBIN						
	6	1	61-0846	1	BOLT (M6X1X14-MM)						
	7	1	236-5539	1	CLIP						
	8	1	431-6226	1	HARNESS AS-ENGINE						
	9	1	431-9953	1	BRACKET						
	10	1	431-9958	1	BRACKET						

M - METRIC PART



GRAPHIC #1

<END>

g03393784

ELECTRICAL AND STARTING SYSTEM

349-7214 CONTROL GP-UNPROGRAMMED

S/N: CNW1-UP

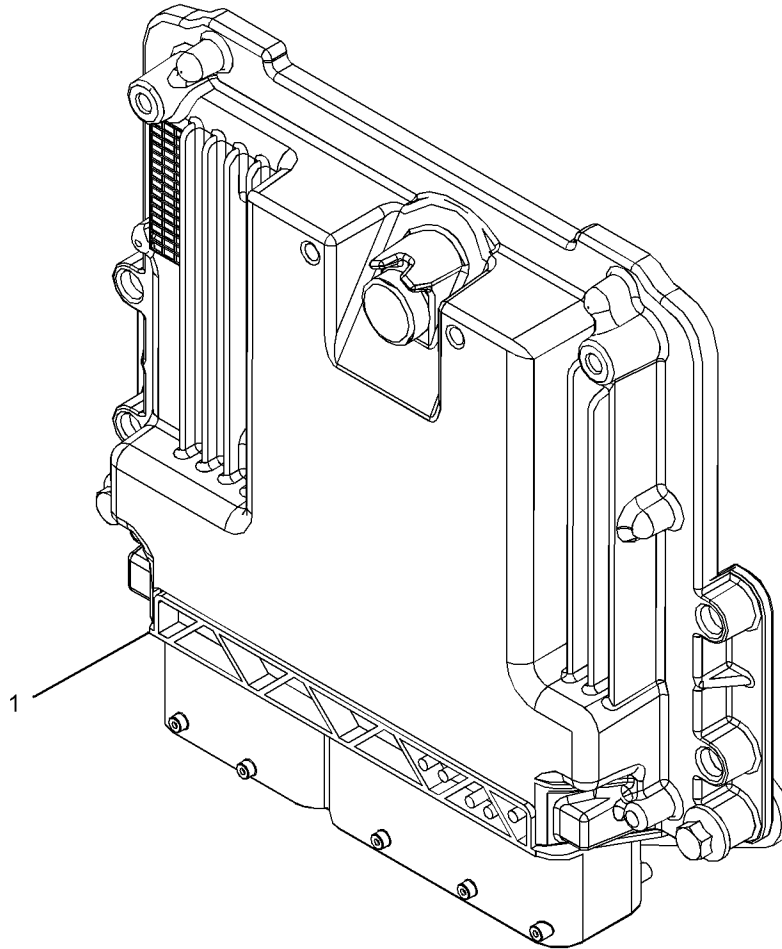
PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-7610

i04905425

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	397-1561	1	MODULE & MTG GP-CONTROL						98

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g03077137

ELECTRICAL AND STARTING SYSTEM

362-0502 GLOW PLUG GP

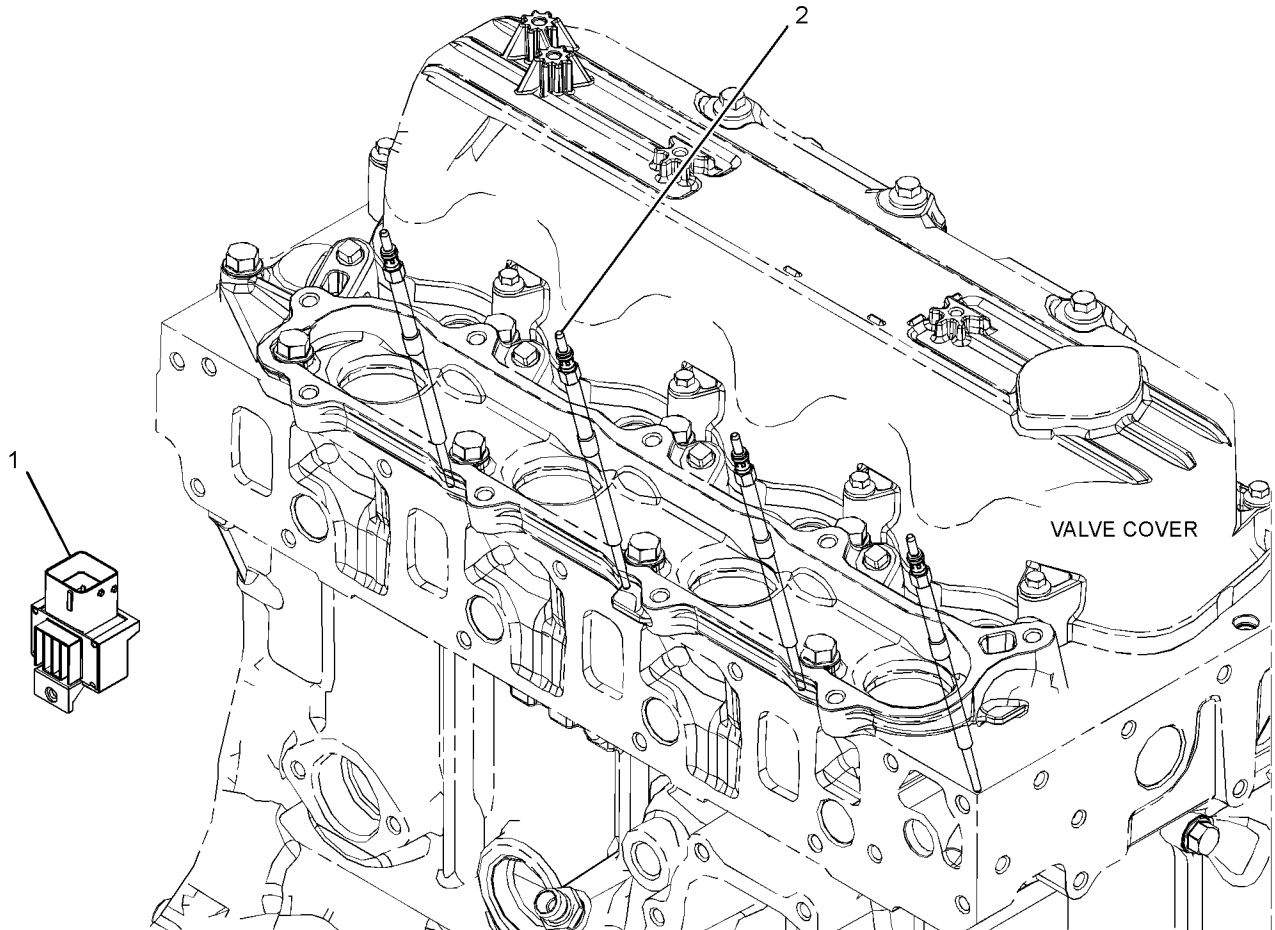
S/N: CNW1-UP

PART OF 350-1818 STARTING AID GP

SMCS-1412

i04896764

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	375-1424	1	PLUG-GLOW						
	2	1	387-9358	4	GLOW PLUG						



GRAPHIC #1

<END>

g02879045

ELECTRICAL AND STARTING SYSTEM

397-1561 MODULE & MTG GP-CONTROL

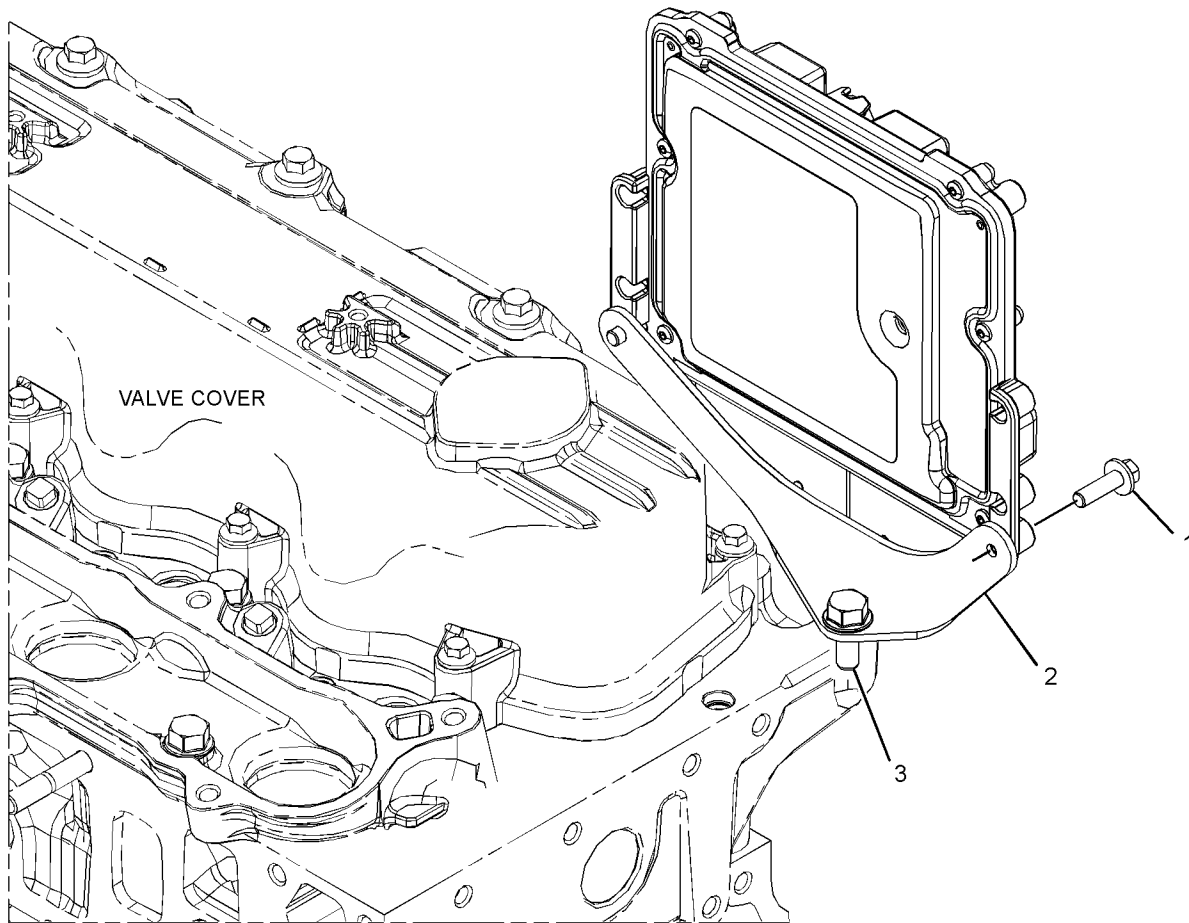
S/N: CNW1-UP

PART OF 349-7214 CONTROL GP-UNPROGRAMMED

SMCS-7610

i04906991

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	100-4838	2	BOLT (M6X20-MM)						
	2	1	386-1919	1	BRACKET						
	3	1	389-1874	1	BOLT						
					AVAILABLE REPAIR KIT(S) :						
			394-0929	1	MODULE AS-CONTROL (INCLUDES CONTROL GROUP & FILM)						



GRAPHIC #1

<END>

g03083976

ELECTRICAL AND STARTING SYSTEM

383-5875 SENSOR & MTG GP-SOOT

S/N: CNW1-UP

PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-108F, 1335

i05372538

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	396-4352	1	SENSOR & MTG GP-SOOT						99
Y - SEPARATE ILLUSTRATION									

<END>

396-4352 SENSOR & MTG GP-SOOT

S/N: CNW1-UP

PART OF 383-5875 SENSOR & MTG GP-SOOT

SMCS-108F, 1335

i05372542

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
M	6I-0846	1	BOLT (M6X1X14-MM)						
	100-4841	2	BOLT (M6X1X10-MM)						
	133-6106	1	BOLT						
	386-2071	2	CLIP						
	387-7741	1	CLAMP						
	417-8435	1	BRACKET						
	417-8439	1	BRACKET						
	417-8449	4	CLIP						
	417-8450	2	CLIP						
	419-8730	1	PIPE						
	422-9977	1	SENSOR						
	428-7223	1	PIPE AS						
	428-7224	1	PIPE AS						
	428-7225	1	PIPE						

<END>

ELECTRICAL AND STARTING SYSTEM

382-2989 SENSOR GP-ENGINE

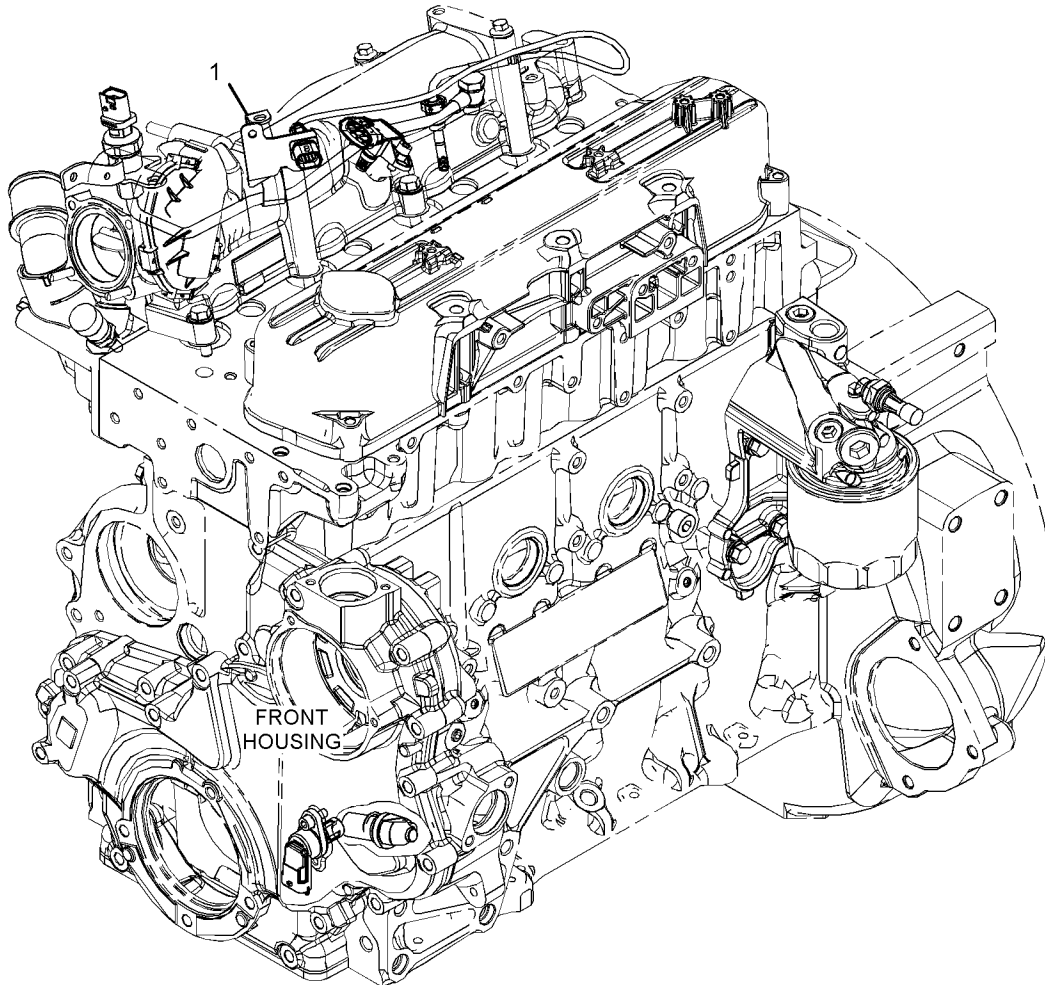
S/N: CNW1-UP

PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

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

i04896742

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	383-5772	1	SENSOR GP-ENGINE						101
Y - SEPARATE ILLUSTRATION											



GRAPHIC #1

<END>

g02988338

ELECTRICAL AND STARTING SYSTEM

383-5772 SENSOR GP-ENGINE

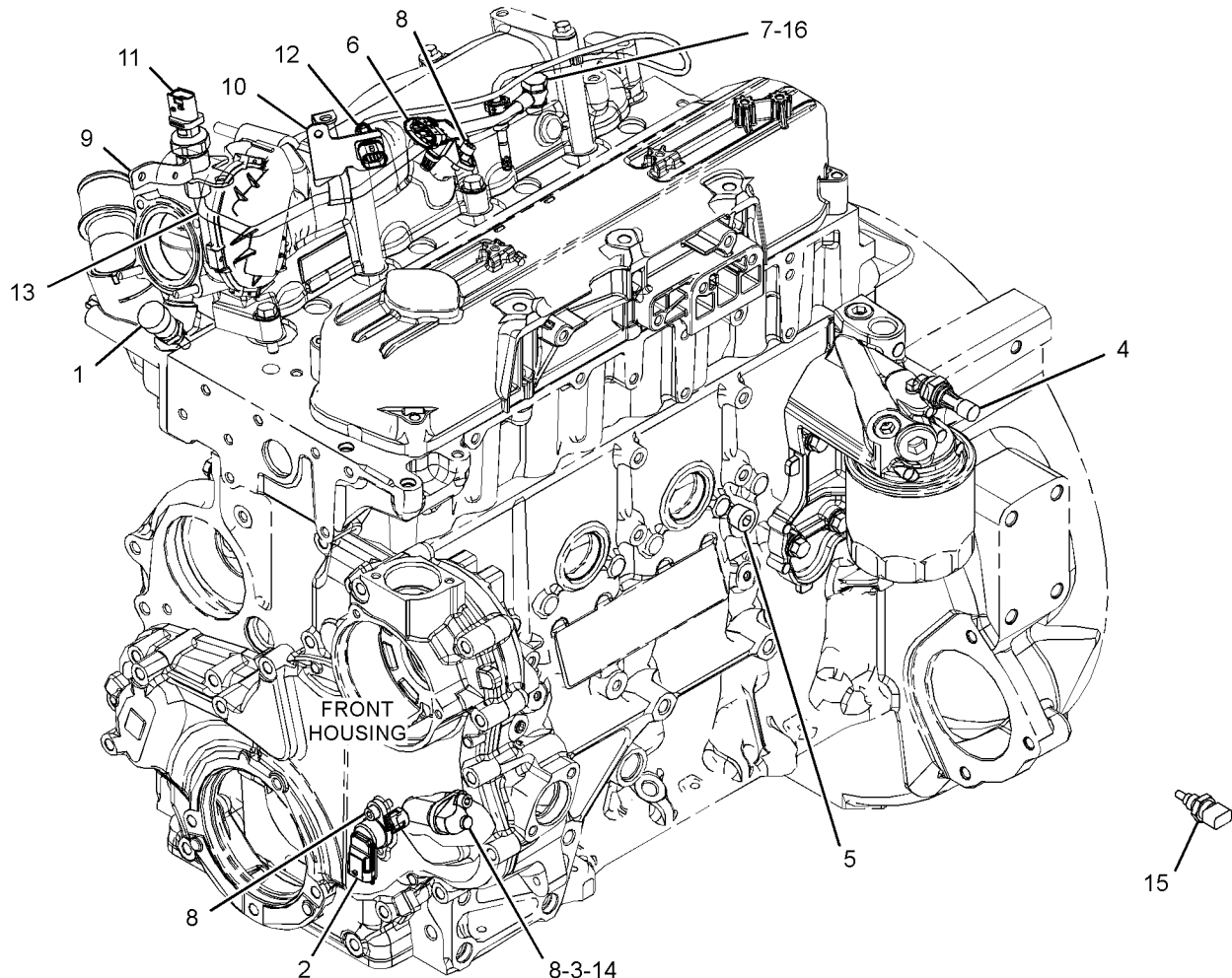
S/N: CNW1-UP

PART OF 382-2989 SENSOR GP-ENGINE

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

i05432634

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	373-9526	1	SENSOR-TEMPERATURE (AMBIENT)						
	2	1	435-5717	1	SENSOR (CAMSHAFT)						
	3	1	386-0153	1	SENSOR-SPEED (PRIMARY TIMING)						
	4	1	386-0154	1	SWITCH (OIL PRESSURE)						
	5	1	386-0162	1	PLUG						
	6	1	386-0163	1	SENSOR						
	7	1	386-0164	1	SCREW						
	8	1	386-0166	3	SCREW						
	9	1	386-1914	1	BRACKET AS						
	10	1	386-1918	1	BRACKET						
	11	1	386-6508	1	SENSOR (PRESSURE)						
	12	1	386-6510	1	SENSOR-TEMPERATURE						
	13	1	386-6518	1	PIPE AS						
	14	1	387-7709	1	SEAL						
	15	1	399-8728	1	SENSOR (AMBIENT AIR TEMP)						
	16	1	393-0900	2	WASHER						



GRAPHIC #1

<END>

g03455536

ELECTRICAL AND STARTING SYSTEM

350-1818 STARTING AID GP

S/N: CNW1-UP

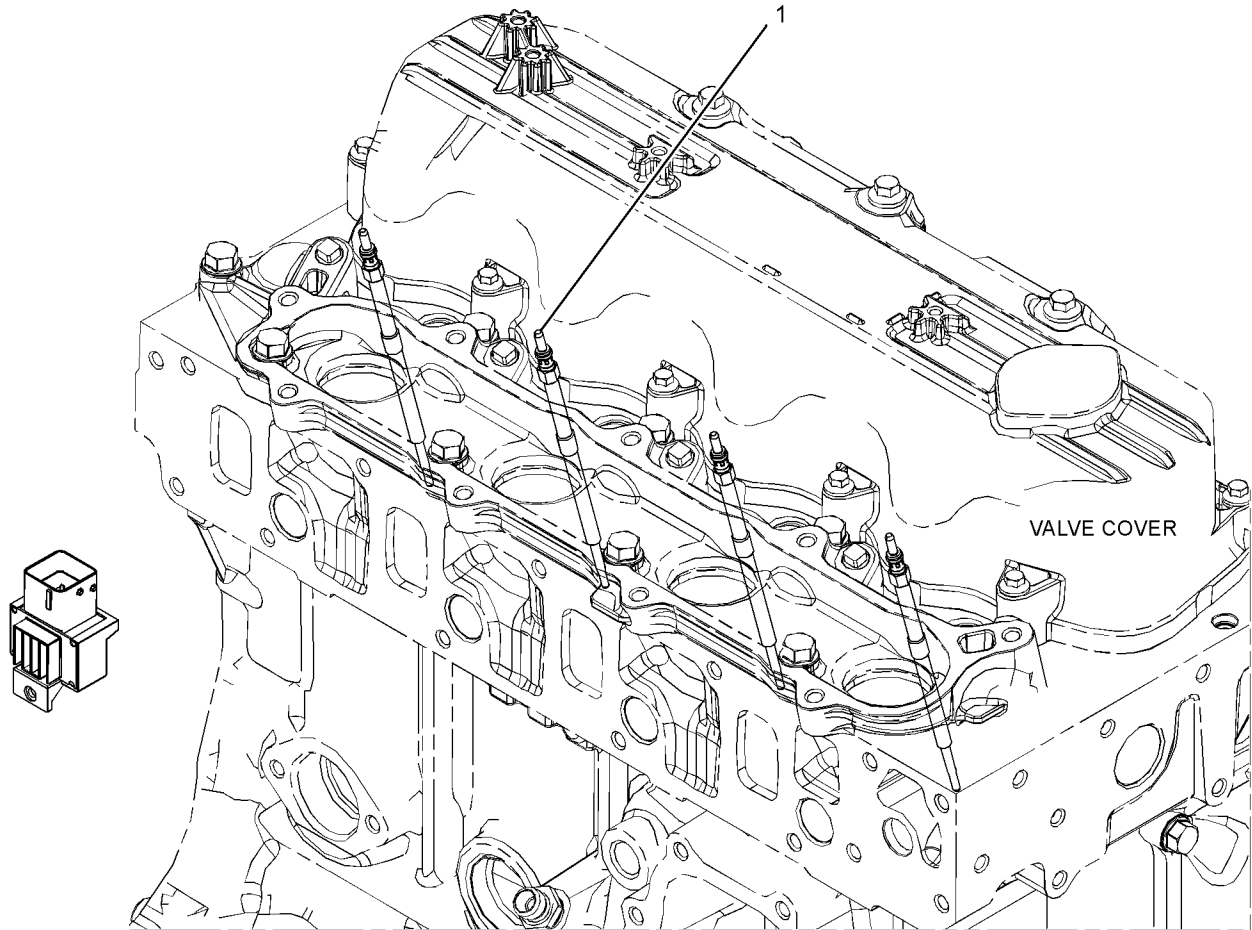
PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1090

i04894783

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	362-0502	1	GLOW PLUG GP						97

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g02879056

ELECTRICAL AND STARTING SYSTEM

350-0490 STARTING MOTOR GP-ELECTRIC

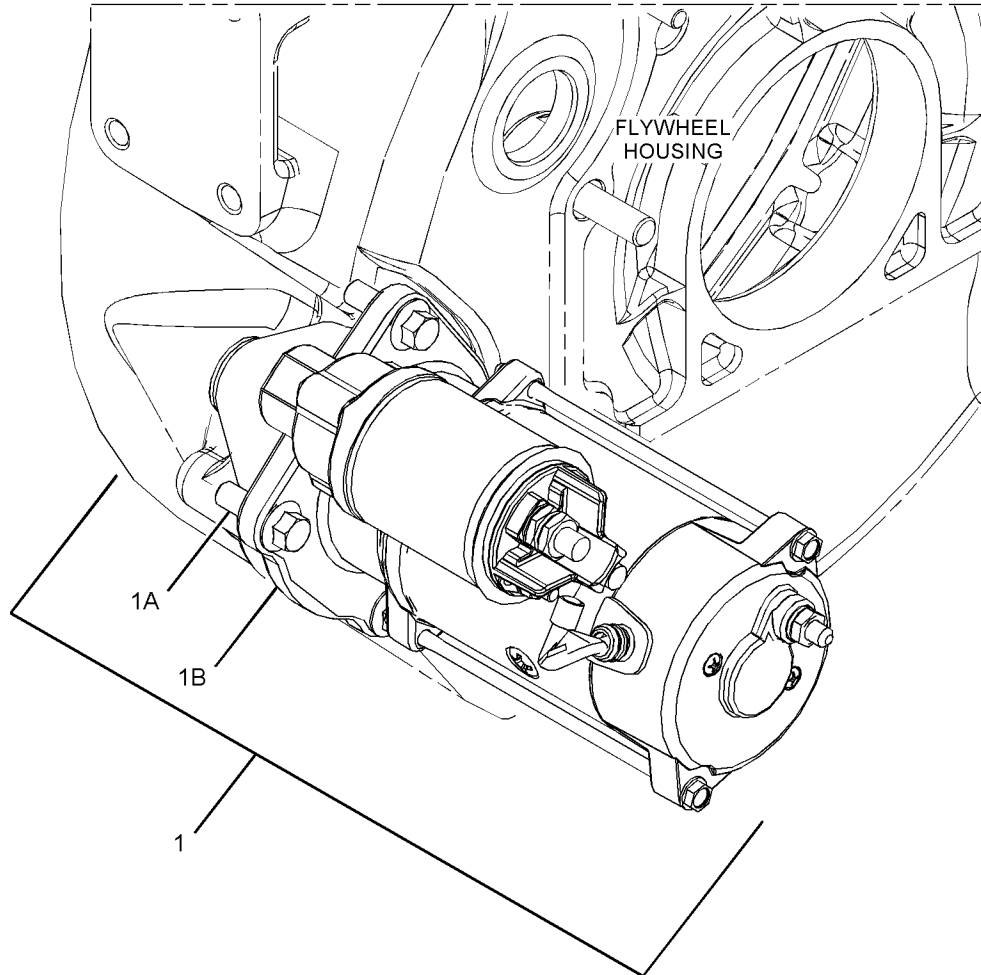
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PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1453

i05242643

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	360-7327	1	STARTING MOTOR GP-ELECTRIC						
M	1A	1	121-0883	3	BOLT (M10X1.5X30-MM)						
	1B	1	417-8506	1	STARTING MOTOR AS						
M - METRIC PART											



GRAPHIC #1

<END>

g03350863

ELECTRICAL AND STARTING SYSTEM

373-8349 WIRING GP-ENGINE

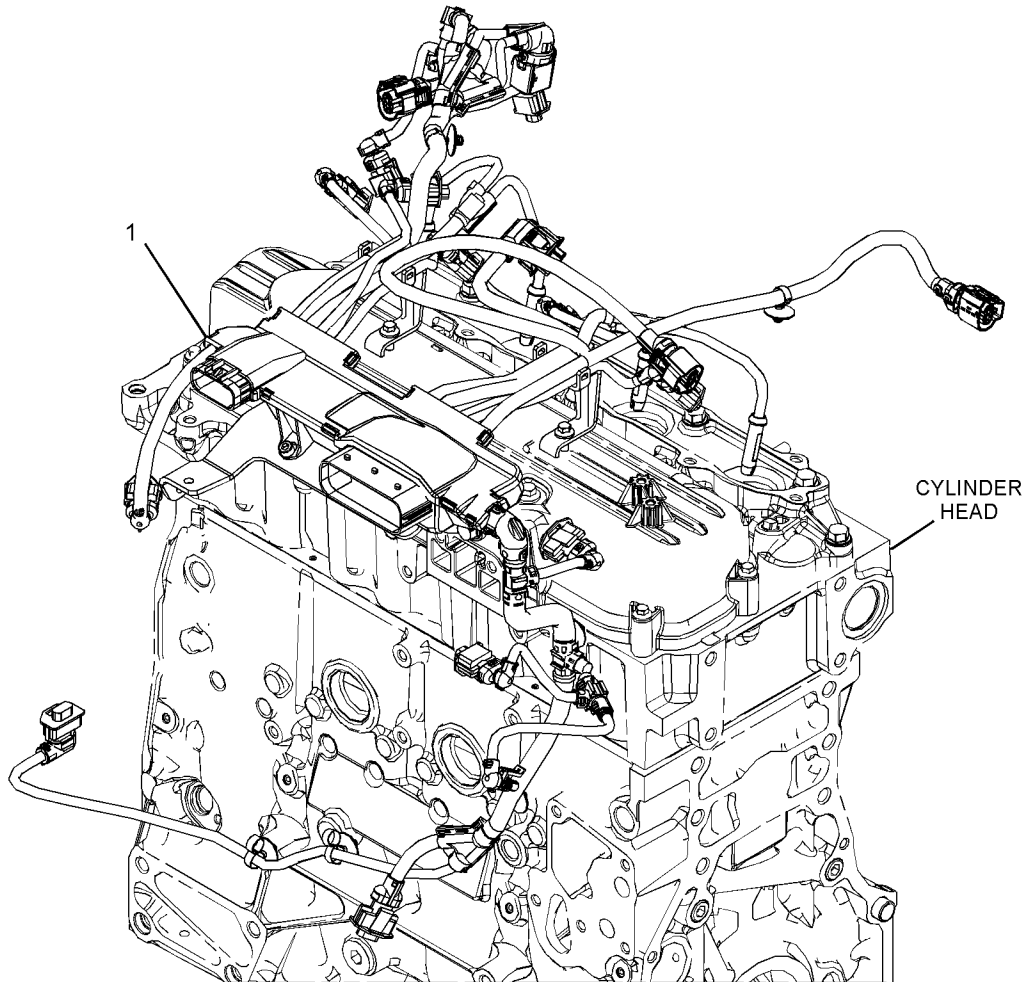
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PART OF 392-4202, 392-5184, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-1000, 1408

i05206336

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	380-2683	1	WIRING GP-ENGINE						105
Y - SEPARATE ILLUSTRATION											



GRAPHIC #1

<END>

g02952059

ELECTRICAL AND STARTING SYSTEM

380-2683 WIRING GP-ENGINE

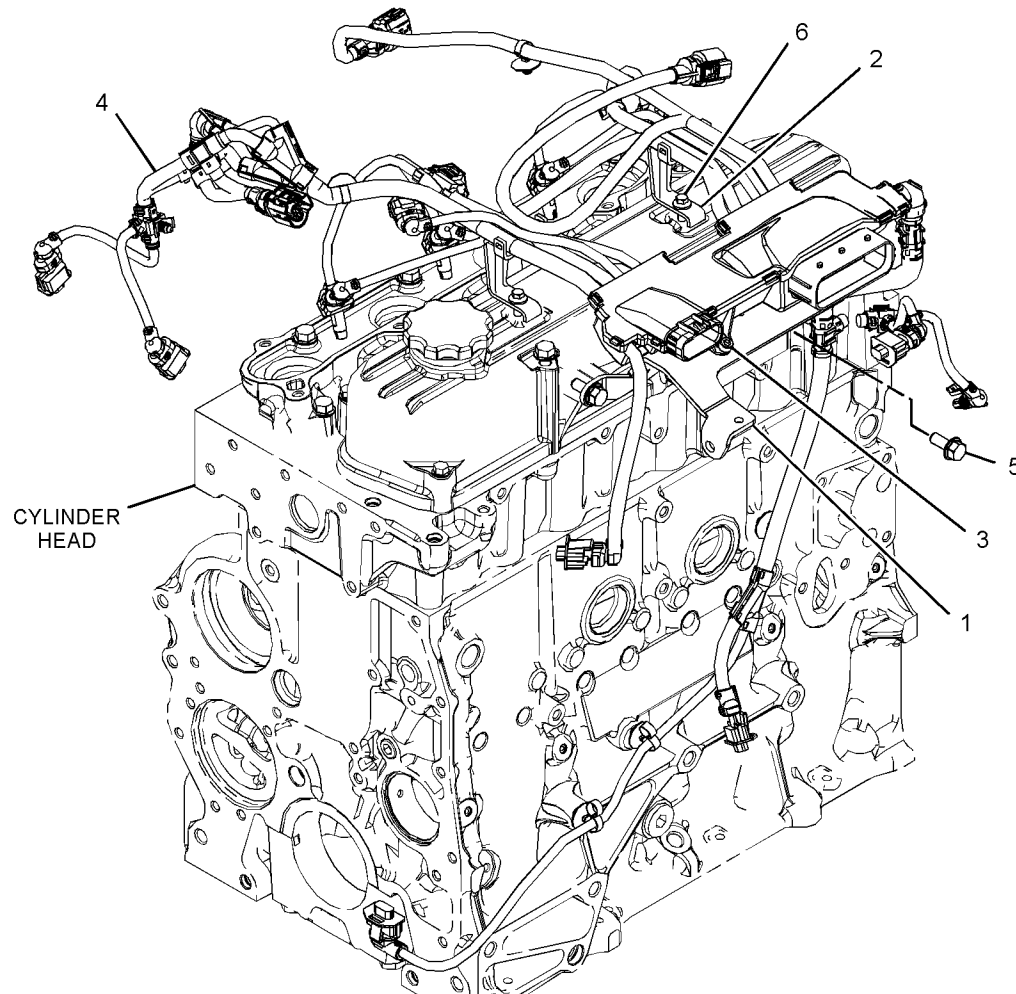
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PART OF 373-8349 WIRING GP-ENGINE

SMCS-1000, 1408

i05230495

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	386-1915	1	BRACKET						
	2	1	386-1916	2	BRACKET						
	3	1	386-3036	1	SCREW						
	4	1	387-9336	1	WIRING GP-ENGINE						
	5	1	389-1874	3	BOLT						
	6	1	6I-0846	2	BOLT (M6X1X14-MM)						



GRAPHIC #1

<END>

g02891099

SERVICE EQUIPMENT AND SUPPLIES

418-5175 PLATE & FILM GP

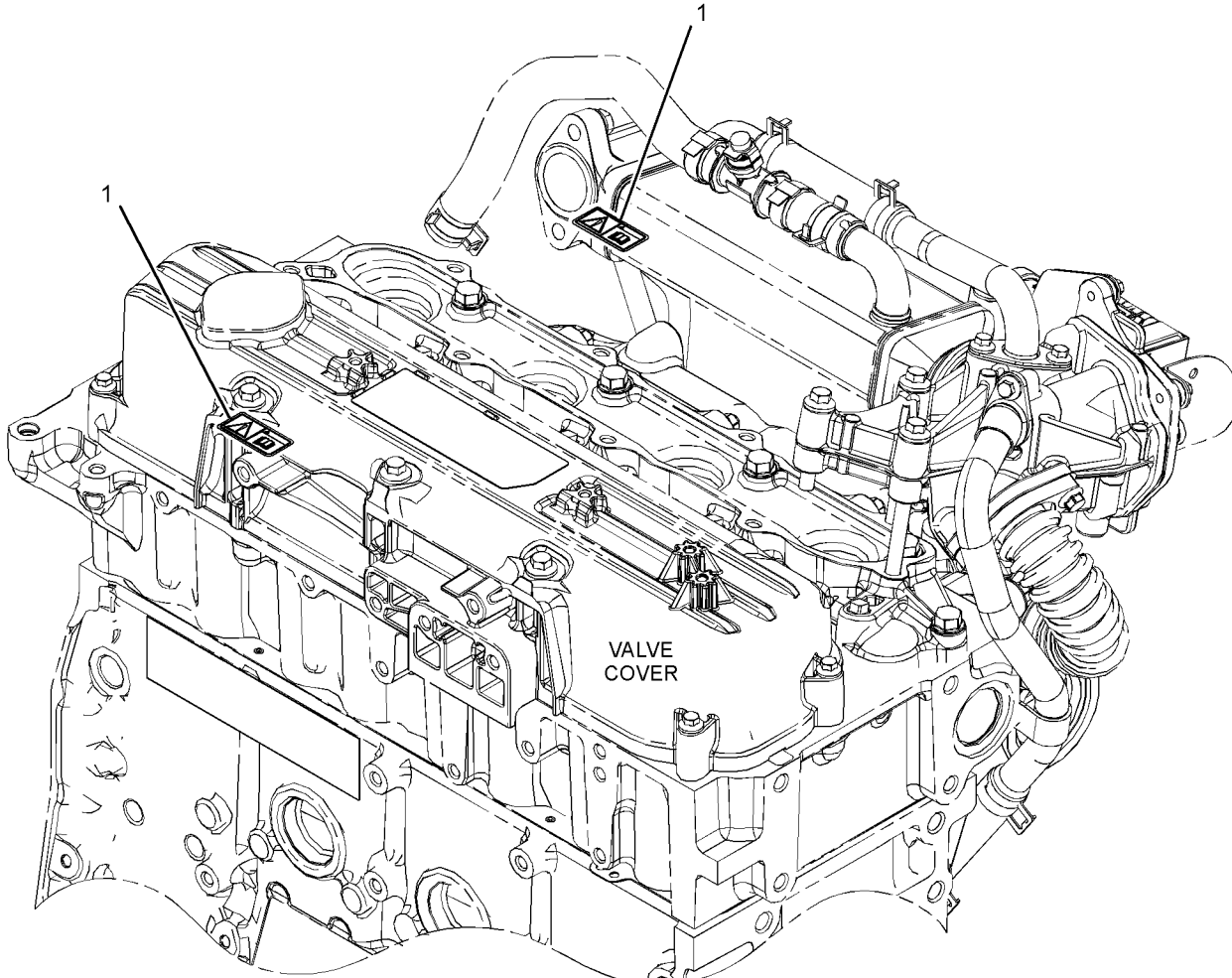
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PART OF 392-4202, 392-6286, 392-6354 ENGINE AR-PRIMARY

SMCS-7405, 7557

i05181974

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	346-8219	2	FILM-WARNING (UNIVERSAL WARNING)						



GRAPHIC #1

<END>

g03324557

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6I-0260	27		81		4		4
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	50	133-6106	72	350-1102	1	350-3754	1
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MEMORANDA



SEBP7150

C3.4B IOPU Industrial Engine

CJ31-UP