

Parts Manual



See "General Information"
for New Parts Manual
Features.

CB-434D, CB-434DXW Vibratory Compactor

CNH1-Up (Machine)
CRS1-Up (Engine)

Powered By 3054C Engine
This Parts Manual is also available in .pdf Format on Compact Disc
(CD-ROM) - Caterpillar Form No. KERP0245.

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: _____

Dealer Contact

Phone Number

Hours

Sales: _____

Parts: _____

Service: _____

MEMORANDA

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GENERAL INFORMATION

1. MACHINE IDENTIFICATION

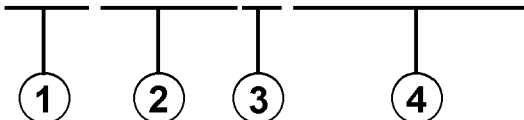
Caterpillar machines are identified by Product Identification Numbers (PIN). Some components included in a machine may be identified by Serial Numbers (S/N). Typical components that will be serialized include engines, transmissions, bulldozers, and rippers. The machine and engine are further identified by arrangement numbers and in some cases modification numbers. These numbers are shown on the product identification plate(s) and on the master plate in the operator's compartment.

Caterpillar dealers need all of these numbers to determine accurate parts identification.

New Feature

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

CAT 0789BG 6SL12345



The diagram shows the PIN format: *CAT 0789BG 6SL12345*. Below the first four characters (C, A, T, 0), there are four vertical lines leading to circles containing the numbers 1, 2, 3, and 4 respectively.

Where:

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

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

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

2. ORDERING PARTS

WARNING

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

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

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

3. PARTS MANUAL ORGANIZATION

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

4. TABLE OF CONTENTS

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

5. MAINTENANCE PARTS INDEX

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

GENERAL INFORMATION

6. INDEX

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

7. PART NUMBER INDEX

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

8. CAPTIONS

Captions located at the beginning of each information element identify the part number and part name along with additional descriptive information. PIN and S/N information found in each caption should be used to select correct information for a specific machine. 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 a lower level serviceable consist lists. These non-serviced part numbers are shown in *italic* type indicating that they are not available.

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

 **New Feature**

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:

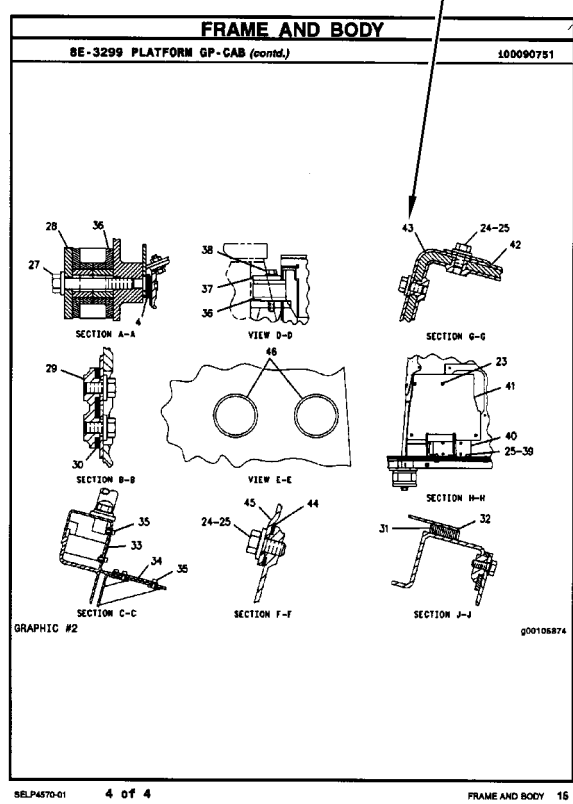
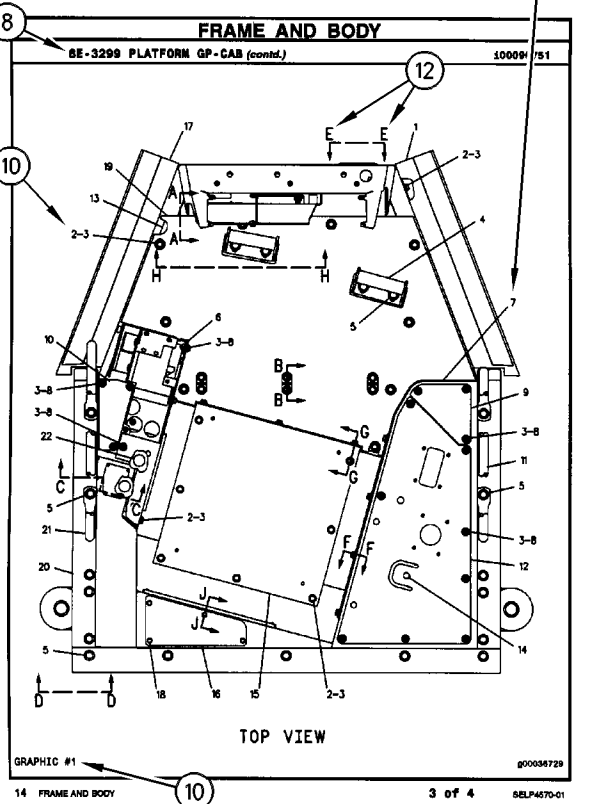
Continuing improvement and advancement of product design may cause changes to your machine which may not be included in this publication. Whenever a question arises regarding your caterpillar product or this publication, please consult your caterpillar dealer for the latest available information.

GENERAL INFORMATION

8 FRAME AND BODY					
BE-3299 PLATFORM GP-CAB					
PIN 3841-99999					
					100090751
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME & PRODUCT LEVEL
			31-2982	1	PLATE AS
			68-2092	25	BOLT (1/4-18X.750IN)
			68-1078	41	WASHER-HARD (3MM THK)
			68-1444	2	SUPPORT AS-FOOT
			77-2229	19	BOLT (1/2-13X1IN)
			77-2229	19	WASHER-HARD (4MM THK)
			68-8126	1	COVER AS-LH
			68-8278	6	NUT-WELD (3/8-16 THD)
			17-8189	1	CLIP
			78-2411	4	COVER
			64-0486	18	SCREW-HEAD (3/8-16X.875IN)
			77-0774	1	COVER
			68-0972	1	GASKET
			68-2468	1	WASHER
			68-2890	1	GASKET
			31-3492	1	HANDHOLD
			68-8278	1	COVER AS
			68-8278	8	NUT-WELD (3/8-16 THD)
			68-8278	1	GASKET
			77-0131	1	FLOORPLATE AS
			17-0742	4	NUT-WELD (1/2-13 THD)
			77-8087	1	PLUG-BUTTON
			77-0136	1	PLATE AS
			68-8278	5	NUT-WELD (3/8-16 THD)
			77-8089	1	COVER
			77-0770	1	GASKET
			31-2981	1	PLATE AS
			81-8484	4	BOLT (1/4-20X.825IN)
			81-8484	4	WASHER-HARD (2MM THK)
			61-8484	1	FLOOR MAT
			68-8484	1	MODULE AS-OPERATOR
			31-3534	1	HANDHOLD
			68-8271	2	PLUG
			81-8384	4	BOLT (1/4-20X.825IN)
			81-8384	4	WASHER-HARD (2MM THK)
			68-8282	17	BOLT (3/8-16X.750IN)
			68-1078	21	WASHER-HARD (3MM THK)
			77-0136	1	SEAL
			78-0278	2	BOLT (3/4-10X5IN)
			78-0282	2	WASHER-HARD (3MM THK)
			31-3482	2	PLATE
			31-6380	1	PLATE AS
			78-0282	8	SPACER
			31-5281	1	SEAL
			78-8817	1	GASKET
			78-8816	1	COVER AS
			28-8278	2	WASHER
			68-8228	2	SCREW-KNURLED
			68-3428	1	COVER
			68-8887	1	COVER
			68-2091	8	SCREW-ROCKET HEAD
			68-3142	8	MOUNTING
			68-0287	2	PLATE
			78-0289	2	BOLT (1/2-8X5IN)
			78-0272	2	WASHER-HARD
			41-8484	4	BOLT (3/8-18X1.02IN)
			31-6783	1	COVER

FRAME AND BODY					
BE-3299 PLATFORM GP-CAB (contd.)					
					100090751
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME & PRODUCT LEVEL
	41	2	68-8816	1	COVER
	42	2	77-8124	1	PLATE
	43	2	77-8128	1	GASKET
	44	2	78-8724	1	GASKET
	45	2	78-8728	1	COVER
	48	2	68-1069	2	PLUG-BUTTON

M-METRIC PART



REPAIR ALTERNATIVES

REMANUFACTURED COMPONENTS

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

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

Typical components included in the Remanufacturing Program include:

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

Caterpillar Remanufactured engines for many engine arrangements are also available.

SUPPLEMENTAL COOLANT ADDITIVES

CUSTOMER BENEFITS:

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

- Provides measured coolant conditioner.

DESCRIPTION:

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

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

NOTE:

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

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

NOTE:

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

PARTS NEEDED:

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

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

() Indicates quantity required.

MAINTENANCE PARTS

DESCRIPTION	PART NUMBER	QTY	WHERE USED	PAGE
AIR INLET AND EXHAUST SYSTEM				
FILTER ELEMENT AS-AIR (PRIMARY)	110-6326	1	AIR CLEANER GP	75
FILTER ELEMENT AS-AIR (SECONDARY)	110-6331	1	AIR CLEANER GP	75
BASIC ENGINE				
CAP-OIL FILLER (ENGINE)	130-9888	1	COVER GP-VALVE MECHANISM	15
		1	COVER GP-VALVE MECHANISM	17
		1	COVER GP-VALVE MECHANISM	19
GASKET (VALVE COVER)	225-6451	1	COVER GP-VALVE MECHANISM	15
		1	COVER GP-VALVE MECHANISM	17
		1	COVER GP-VALVE MECHANISM	19
PLUG-DRAIN (ENGINE OIL)	7C-0351	2	PAN GP-OIL	44
COOLING SYSTEM				
CAP (COOLANT TANK)	115-2186	1	LINES GP-COOLANT	60
		1	LINES GP-COOLANT	61
		1	LINES GP-COOLANT	62
CAP AS-RADIATOR	036-1865	1	RADIATOR & HYD OIL COOLER GP	67
		1	RADIATOR & HYD OIL COOLER GP	69
		1	RADIATOR & HYD OIL COOLER GP	71
CAP-VENTED (COOLANT RECOVERY)	147-9611	1	RECOVERY GP-COOLANT	73
		1	RECOVERY GP-COOLANT	74
HOSE-RADIATOR (LOWER)	190-5055	1	MOUNTING GP-RAD & OIL COOLER	63
HOSE-RADIATOR (UPPER)	190-5054	1	MOUNTING GP-RAD & OIL COOLER	63
REGULATOR AS-WATER TEMPERATURE (CONNECTOR INCLUDED)	254-2268	1	CONNECTION GP-WATER	55
ELECTRICAL AND STARTING SYSTEM				
BATTERY GP (12-VOLT, 950-CCA)	115-2422	1	BATTERY & WIRING GP	110
BELT-DRIVE (WARNING BEACON)	9X-8139	1	LAMP GP-WARNING BEACON	122
		1	LIGHTING GP-WARNING BEACON	132
		1	LIGHTING GP-WARNING BEACON	133
		1	LIGHTING GP-WARNING BEACON	134
CAP AS-FILLER (BATTERY)	123-1373	6	BATTERY & WIRING GP	110
CIRCUIT BREAKER AS (20-AMPERE) (THROTTLE)	6T-3644	1	WIRING GP-ENGINE	148
CIRCUIT BREAKER AS (50-AMPERE) (STARTING AID)	171-2206	1	WIRING GP-ENGINE	148
CIRCUIT BREAKER AS (80-AMPERE) (ALTERNATOR)	171-2210	1	WIRING GP-ENGINE	148
CIRCUIT BREAKER AS (80-AMPERE) (MAIN)	171-2210	1	WIRING GP-ENGINE	148
FLASHER AS (12-VOLT)	7T-4848	1	LIGHTING GP-ROADING	131
FUSE (10-AMPERE)	113-8490	7	WIRING GP-PLATFORM	161
		7	WIRING GP-PLATFORM	163
		7	WIRING GP-PLATFORM	165
		7	WIRING GP-PLATFORM	167
		7	WIRING GP-PLATFORM	168
FUSE (15-AMPERE)	113-8491	5	WIRING GP-PLATFORM	161
		5	WIRING GP-PLATFORM	163
		5	WIRING GP-PLATFORM	165
		5	WIRING GP-PLATFORM	167

MAINTENANCE PARTS

DESCRIPTION	PART NUMBER	QTY	WHERE USED	PAGE
FUSE (20-AMPERE)	113-8492	5	WIRING GP-PLATFORM	168
		4	WIRING GP-PLATFORM	161
		4	WIRING GP-PLATFORM	163
		4	WIRING GP-PLATFORM	165
		4	WIRING GP-PLATFORM	167
GLOW PLUG (12-VOLT)	232-6662	4	WIRING GP-PLATFORM	168
		4	GLOW PLUG GP	113
		4	GLOW PLUG GP	114
		1	SWITCH GP-DISCONNECT	138
		1	LIGHTING GP-ROADING	131
KEY (BATTERY DISCONNECT) LAMP (12-VOLT)	8H-5306	1	SWITCH GP-DISCONNECT	138
	118-6650	1	LIGHTING GP-ROADING	131
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MACHINE ARRANGEMENT

183-4753 CHASSIS AR

S/N: CNH1-506

PART OF 183-4752 COMMON AR

SMCS-7000

i03473260

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	219-4198	2	COVER GP						211
Y	190-6066	1	ENCLOSURE GP-ENGINE						220
Y	231-3811	1	FILM GP (ROUND RED REFLECTIVE)						582
Y	184-3492	1	FRAME GP						222
Y	217-6444	1	HITCH GP-ARTICULATING (CHASSIS)						232
Y	192-8835	1	PLATE & FILM GP (CHASSIS)						590
Y	219-4475	2	SCRAPER GP-DRUM						240
Y	195-5010	1	TANK & MTG GP-FUEL						100
Y	195-5012	1	TANK & MTG GP-HYDRAULIC						328

Y-SEPARATE ILLUSTRATION

<END>

270-4432 CHASSIS AR

S/N: CNH507-UP

PART OF 272-6511, 318-4329 COMMON AR

SMCS-7000

i02420157

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	231-3811	1	FILM GP (ROUND RED REFLECTIVE)						582
Y	184-3492	1	FRAME GP						222
Y	217-6444	1	HITCH GP-ARTICULATING (CHASSIS)						232
Y	270-4233	1	PLATE & FILM GP (BODY)						605
Y	195-5010	1	TANK & MTG GP-FUEL						100
Y	195-5012	1	TANK & MTG GP-HYDRAULIC						328

Y-SEPARATE ILLUSTRATION

<END>

183-4752 COMMON AR

S/N: CNH1-506

SMCS-7000

i02407264

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	183-4753	1	CHASSIS AR						1
Y	183-4754	1	ELECTRICAL AR						112
Y	179-1789	1	ENGINE AR-PRIMARY						8
Y	183-4757	1	HYDRAULIC AR-AUXILIARY						294
Y	183-4756	1	HYDRAULIC AR-PROPEL						173
Y	183-4758	1	HYDRAULIC AR-VIBRATORY						388
Y	183-4759	1	INSTALLATION AR-ENGINE						13
Y	185-3497	1	POWER TRAIN AR						188
Y	183-4763	1	SPRAY AR-WATER						467

Y-SEPARATE ILLUSTRATION

<END>

MACHINE ARRANGEMENT

272-6511 COMMON AR

S/N: CNH507-823

SMCS-7000

i02462452

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	270-4432	1	CHASSIS AR						1
Y	183-4754	1	ELECTRICAL AR						112
Y	179-1789	1	ENGINE AR-PRIMARY						8
Y	183-4757	1	HYDRAULIC AR-AUXILIARY						294
Y	275-0487	1	HYDRAULIC AR-VIBRATORY						388
Y	183-4759	1	INSTALLATION AR-ENGINE						13
Y	270-4454	1	SPRAY AR-WATER						467

Y-SEPARATE ILLUSTRATION

<END>

318-4329 COMMON AR

S/N: CNH824-UP

SMCS-7000

i02995869

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	270-4432	1	CHASSIS AR						1
Y	183-4754	1	ELECTRICAL AR						112
Y	183-4757	1	HYDRAULIC AR-AUXILIARY						294
Y	275-0487	1	HYDRAULIC AR-VIBRATORY						388
Y	270-4454	1	SPRAY AR-WATER						467

Y-SEPARATE ILLUSTRATION

<END>

254-3869 CONVERSION AR-CERTIFICATION

S/N: CNH1-UP
AN ATTACHMENT

SMCS-7000

i02541427

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	290-9934	1	COVER GP-SOUND SUPPRESSION						215
Y	263-4988	1	ENCLOSURE GP						216
Y	239-7180	1	PLATE & FILM GP (CERTIFICATION)						597
Y	254-3787	1	SUPPRESSION GP-SOUND						249

Y-SEPARATE ILLUSTRATION

<END>

ENGINE ARRANGEMENT

318-4346 ENGINE AR

S/N: CNH1-UP
AN ATTACHMENT

SMCS - 1000

i02995990

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	179-1789	1	ENGINE AR-PRIMARY						8
Y	183-4759	1	INSTALLATION AR-ENGINE						13
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

318-4347 ENGINE AR

S/N: CNH1-UP
AN ATTACHMENT

SMCS - 1000

i02995984

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	297-4049	1	ENGINE AR-PRIMARY						9
Y	183-4759	1	INSTALLATION AR-ENGINE						13
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

318-4348 ENGINE AR

S/N: CNH1-UP
AN ATTACHMENT

SMCS - 1000

i02995987

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	309-0737	1	ENGINE AR-PRIMARY						11
Y	183-4759	1	INSTALLATION AR-ENGINE						13
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

318-4349 ENGINE AR

S/N: CNH1-UP
AN ATTACHMENT

SMCS - 1000

i02995989

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	309-0730	1	ENGINE AR-PRIMARY						10
Y	183-4759	1	INSTALLATION AR-ENGINE						13
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

331-0141 ENGINE AR

S/N: CNH1-UP
AN ATTACHMENT

SMCS - 1000

i03534720

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	329-2196	1	ENGINE AR-PRIMARY						12
Y	183-4759	1	INSTALLATION AR-ENGINE						13
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

179-1789 ENGINE AR-PRIMARY

S/N: CRS1-UP

61 BRAKE KW (82 BHP) AT 2200 RPM

PART OF 183-4752, 272-6511 COMMON AR, 318-4346 ENGINE AR
ALSO AN ATTACHMENT

SMCS-1000

i03091599

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	233-7236	1	CAMSHAFT GP						14
Y	244-3501	1	CONNECTION GP-INLET						79
Y	230-8086	1	CONNECTION GP-WATER						55
Y	253-2472	1	COOLER GP-FLTR BASE & ENG OIL						56
Y	230-9151	1	COVER GP-VALVE MECHANISM						15
Y	233-7027	1	CRANKSHAFT GP						23
Y	233-7007	1	CYLINDER BLOCK GP						26
Y	233-7234	1	CYLINDER HEAD GP						28
Y	231-0055	1	DRIVE GP-ACCESSORY						31
Y	232-7378	1	FILTER GP-ENGINE OIL						52
Y	230-7286	1	FLYWHEEL GP						34
Y	232-6661	1	GLOW PLUG GP						113
Y	223-7825	1	HOUSING GP-FLYWHEEL						36
Y	232-6179	1	HOUSING GP-FRONT						37
Y	233-7432	1	LIFTING GP-ENGINE						41
Y	231-0292	1	MANIFOLD GP-EXHAUST						80
Y	232-6206	1	MOUNTING GP-ENGINE						43
Y	230-8144	1	PAN GP-OIL (ENGINE)						44
Y	233-7233	1	PISTON & ROD GP						45
Y	225-4317	1	PLUG GP-ENGINE						47
Y	253-2479	1	PLUG GP-ENGINE						49
Y	232-6204	1	PLUG GP-ENGINE						48
Y	230-7353	1	PULLEY GP-CRANKSHAFT						50
Y	230-7578	1	PUMP GP-ENGINE OIL						53
Y	267-9413	1	PUMP GP-FUEL INJECTION						88
Y	233-7425	1	PUMP GP-FUEL PRM & PRIM FILTER						93
Y	230-7355	1	PUMP GP-WATER						65
Y	328-6009	1	STARTING MOTOR GP-ELECTRIC						137
Y	233-7235	1	VALVE MECHANISM GP						51
AVAILABLE GASKET KIT(S):									
	276-3420	1	KIT-GASKET (TOP)						
	272-0494	1	KIT-GASKET (BOTTOM)						

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

297-4049 ENGINE AR-PRIMARY

S/N: CRS1-UP

62 BRAKE KW (83 BHP) AT 2200 RPM

PART OF 318-4347 ENGINE AR

AN ATTACHMENT

SMCS-1000

i03099759

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	233-7236	1	CAMSHAFT GP						14
Y	244-3501	1	CONNECTION GP-INLET						79
Y	230-8086	1	CONNECTION GP-WATER						55
Y	253-2472	1	COOLER GP-FLTR BASE & ENG OIL						56
Y	230-9151	1	COVER GP-VALVE MECHANISM						15
Y	233-7027	1	CRANKSHAFT GP						23
Y	233-7007	1	CYLINDER BLOCK GP						26
Y	233-7234	1	CYLINDER HEAD GP						28
Y	231-0055	1	DRIVE GP-ACCESSORY						31
Y	232-7378	1	FILTER GP-ENGINE OIL						52
Y	230-7286	1	FLYWHEEL GP						34
Y	232-6661	1	GLOW PLUG GP						113
Y	223-7825	1	HOUSING GP-FLYWHEEL						36
Y	232-6179	1	HOUSING GP-FRONT						37
Y	233-7432	1	LIFTING GP-ENGINE						41
Y	231-0292	1	MANIFOLD GP-EXHAUST						80
Y	232-6206	1	MOUNTING GP-ENGINE						43
Y	230-8144	1	PAN GP-OIL (ENGINE)						44
Y	233-7233	1	PISTON & ROD GP						45
Y	225-4317	1	PLUG GP-ENGINE						47
Y	232-6204	1	PLUG GP-ENGINE						48
Y	253-2479	1	PLUG GP-ENGINE						49
Y	230-7353	1	PULLEY GP-CRANKSHAFT						50
Y	230-7578	1	PUMP GP-ENGINE OIL						53
Y	267-9413	1	PUMP GP-FUEL INJECTION						88
Y	233-7425	1	PUMP GP-FUEL PRM & PRIM FILTER						93
Y	230-7355	1	PUMP GP-WATER						65
Y	234-9666	1	STARTING MOTOR GP-ELECTRIC						135
Y	233-7235	1	VALVE MECHANISM GP						51
	267-5367	1	CYLINDER BLOCK GP-SHORT						
			AVAILABLE GASKET KIT(S):						
	272-0494	1	KIT-GASKET (BOTTOM)						
	277-2992	1	KIT-GASKET (TOP)						
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

309-0730 ENGINE AR-PRIMARY

S/N: CRS1-UP

61 BRAKE KW (82 BHP) AT 2200 RPM

PART OF 318-4349 ENGINE AR

AN ATTACHMENT

SMCS-1000

i03099764

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	233-7236	1	CAMSHAFT GP						14
Y	244-3501	1	CONNECTION GP-INLET						79
Y	230-8086	1	CONNECTION GP-WATER						55
Y	253-2472	1	COOLER GP-FLTR BASE & ENG OIL						56
Y	230-9151	1	COVER GP-VALVE MECHANISM						15
Y	233-7027	1	CRANKSHAFT GP						23
Y	233-7007	1	CYLINDER BLOCK GP						26
Y	233-7234	1	CYLINDER HEAD GP						28
Y	231-0055	1	DRIVE GP-ACCESSORY						31
Y	232-7378	1	FILTER GP-ENGINE OIL						52
Y	230-7286	1	FLYWHEEL GP						34
Y	232-6661	1	GLOW PLUG GP						113
Y	223-7825	1	HOUSING GP-FLYWHEEL						36
Y	232-6179	1	HOUSING GP-FRONT						37
Y	233-7432	1	LIFTING GP-ENGINE						41
Y	231-0292	1	MANIFOLD GP-EXHAUST						80
Y	232-6206	1	MOUNTING GP-ENGINE						43
Y	230-8144	1	PAN GP-OIL (ENGINE)						44
Y	233-7233	1	PISTON & ROD GP						45
Y	225-4317	1	PLUG GP-ENGINE						47
Y	232-6204	1	PLUG GP-ENGINE						48
Y	253-2479	1	PLUG GP-ENGINE						49
Y	230-7353	1	PULLEY GP-CRANKSHAFT						50
Y	230-7578	1	PUMP GP-ENGINE OIL						53
Y	267-9413	1	PUMP GP-FUEL INJECTION						88
Y	233-7425	1	PUMP GP-FUEL PRM & PRIM FILTER						93
Y	230-7355	1	PUMP GP-WATER						65
Y	328-6009	1	STARTING MOTOR GP-ELECTRIC						137
Y	233-7235	1	VALVE MECHANISM GP						51
	267-5367	1	CYLINDER BLOCK GP-SHORT						
			AVAILABLE GASKET KIT(S):						
	272-0494	1	KIT-GASKET (BOTTOM)						
	277-5156	1	KIT-GASKET (TOP)						
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

309-0737 ENGINE AR-PRIMARY

S/N: CRS1-UP

61 BRAKE KW (82 BHP) AT 2200 RPM

PART OF 318-4348 ENGINE AR

AN ATTACHMENT

SMCS-1000

i03472473

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	233-7236	1	CAMSHAFT GP						14
Y	244-3501	1	CONNECTION GP-INLET						79
Y	230-8086	1	CONNECTION GP-WATER						55
Y	253-2472	1	COOLER GP-FLTR BASE & ENG OIL						56
Y	230-9151	1	COVER GP-VALVE MECHANISM						15
Y	233-7027	1	CRANKSHAFT GP						23
Y	233-7007	1	CYLINDER BLOCK GP						26
Y	233-7234	1	CYLINDER HEAD GP						28
Y	231-0055	1	DRIVE GP-ACCESSORY						31
Y	232-7378	1	FILTER GP-ENGINE OIL						52
Y	230-7286	1	FLYWHEEL GP						34
Y	232-6661	1	GLOW PLUG GP						113
Y	223-7825	1	HOUSING GP-FLYWHEEL						36
Y	232-6179	1	HOUSING GP-FRONT						37
Y	233-7432	1	LIFTING GP-ENGINE						41
Y	231-0292	1	MANIFOLD GP-EXHAUST						80
Y	232-6206	1	MOUNTING GP-ENGINE						43
Y	230-8144	1	PAN GP-OIL (ENGINE)						44
Y	233-7233	1	PISTON & ROD GP						45
Y	225-4317	1	PLUG GP-ENGINE						47
Y	232-6204	1	PLUG GP-ENGINE						48
Y	253-2479	1	PLUG GP-ENGINE						49
Y	230-7353	1	PULLEY GP-CRANKSHAFT						50
Y	230-7578	1	PUMP GP-ENGINE OIL						53
Y	267-9413	1	PUMP GP-FUEL INJECTION						88
Y	233-7425	1	PUMP GP-FUEL PRM & PRIM FILTER						93
Y	230-7355	1	PUMP GP-WATER						65
Y	328-6009	1	STARTING MOTOR GP-ELECTRIC						137
Y	233-7235	1	VALVE MECHANISM GP						51
	267-5367	1	CYLINDER BLOCK GP-SHORT						
			AVAILABLE GASKET KIT(S):						
	272-0494	1	KIT-GASKET (BOTTOM)						
	277-5156	1	KIT-GASKET (TOP)						

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

329-2196 ENGINE AR-PRIMARY

S/N: CRS1-UP

62 BRAKE KW (83 BHP) AT 2200 RPM. NATURALLY ASPIRATED

PART OF 331-0141 ENGINE AR

AN ATTACHMENT

SMCS-1000

i03539622

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	233-7236	1	CAMSHAFT GP						14
Y	244-3501	1	CONNECTION GP-INLET						79
Y	230-8086	1	CONNECTION GP-WATER						55
Y	253-2472	1	COOLER GP-FLTR BASE & ENG OIL						56
Y	230-9151	1	COVER GP-VALVE MECHANISM						15
Y	233-7027	1	CRANKSHAFT GP						23
Y	233-7007	1	CYLINDER BLOCK GP						26
Y	233-7234	1	CYLINDER HEAD GP						28
Y	231-0055	1	DRIVE GP-ACCESSORY						31
Y	232-7378	1	FILTER GP-ENGINE OIL						52
Y	230-7286	1	FLYWHEEL GP						34
Y	232-6661	1	GLOW PLUG GP						113
Y	223-7825	1	HOUSING GP-FLYWHEEL						36
Y	232-6179	1	HOUSING GP-FRONT						37
Y	233-7432	1	LIFTING GP-ENGINE						41
Y	231-0292	1	MANIFOLD GP-EXHAUST						80
Y	232-6206	1	MOUNTING GP-ENGINE						43
Y	230-8144	1	PAN GP-OIL (ENGINE)						44
Y	233-7233	1	PISTON & ROD GP						45
Y	225-4317	1	PLUG GP-ENGINE (FRONT HOUSING, CYLINDER HEAD)						47
Y	232-6204	1	PLUG GP-ENGINE (CYLINDER HEAD)						48
Y	253-2479	1	PLUG GP-ENGINE						49
Y	230-7353	1	PULLEY GP-CRANKSHAFT						50
Y	230-7578	1	PUMP GP-ENGINE OIL						53
Y	345-3701	1	PUMP GP-FUEL INJECTION						91
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