

Parts Manual



See "General Information"
for New Parts Manual
Features.

3406C Generator Set

C7A1-Up (Generator)
F5A1-Up (Generator)
F6B1-Up (Generator)
C8G1-Up (Generator Set)
1DZ1-Up (Engine)

This Parts Manual is also available in .PDF Format on Compact Disc
(CD-ROM)- Caterpillar Form No. SERP4245

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

TABLE OF CONTENTS

Name	Page	Name	Page
GENERAL INFORMATION	A4	LINES GP-ENGINE OIL DRAIN	69
REPAIR ALTERNATIVES	A7	LINES GP-TURBOCHARGER OIL	71
SUPPLEMENTAL COOLANT ADDITIVES	A8	PUMP GP-ENGINE OIL	73
MAINTENANCE PARTS	A9	PUMP GP-SUMP	74
INDEX	A13	COOLING SYSTEM	76
ENGINE ARRANGEMENT	1	COOLER GP-ENGINE OIL	76
ENGINE AR	1	FLANGE AS-RADIATOR	77
GENERAL AR	5	FLANGE GP-RADIATOR	78
BASIC ENGINE	7	LINES GP-AFTERCOOLER WATER	79
CAMSHAFT GP	7	LINES GP-COOLANT	81
COUPLING GP	8	LINES GP-WATER	82
COUPLING GP-GENERATOR	9	PUMP GP-WATER	84
COVER GP-CYLINDER BLOCK	10	RADIATOR GP	87
COVER GP-ENGINE LIFTING EYE	11	SUPPORT GP-RADIATOR	92
COVER GP-FLYWHEEL HOUSING	12	VALVE GP-COOLANT SAMPLING	93
COVER GP-FRONT HOUSING	13	AIR INLET AND EXHAUST SYSTEM	94
COVER GP-VALVE MECHANISM	16	AFTERCOOLER GP-WATER	94
CRANKSHAFT GP	17	AIR CLEANER GP	96
CYLINDER BLOCK AS	18	CAP AS-AIR CLEANER	103
CYLINDER BLOCK GP	20	CARTRIDGE GP-TURBOCHARGER	104
CYLINDER HEAD GP	29	ELBOW GP-EXHAUST	106
DAMPER & PULLEY GP	34	FITTING GP-EXHAUST	108
DRIVE GP-ACCESSORY	35	LINES GP-AIR	110
DRIVE GP-FAN	36	MANIFOLD GP-EXHAUST	112
FASTENER GP-FRONT HOUSING	38	MOUNTING GP-EXHAUST	114
FLYWHEEL GP	39	MOUNTING GP-MUFFLER	115
GEAR GP-FRONT	40	MUFFLER	117
GUARD GP-BELT	41	MUFFLER AS	118
GUARD GP-DAMPER	42	MUFFLER GP	120
HOUSING GP-FLYWHEEL	43	PRECLEANER GP	121
HOUSING GP-FRONT	44	SHIELD GP-MANIFOLD	122
LIFTING GP-ENGINE	46	SHUTOFF GP-AIR	123
MOUNTING GP-ALTERNATOR	47	TURBOCHARGER GP	124
PAN GP-OIL	49	FUEL SYSTEM	128
PISTON & ROD GP	50	BASE GP-FUEL TANK	128
ROCKER ARM GP	52	CONTROL AS-GOVERNOR	129
SEAL GP-CRANKSHAFT	53	CONTROL GP-GOVERNOR	131
SUPPORT GP-ENGINE	55	COVER GP-FUEL TRANSFER	136
VALVE MECHANISM GP	56	DRIVE GP-GOVERNOR & FUEL PUMP	137
LUBRICATION SYSTEM	57	FASTENER GP-FUEL INJ PUMP	140
BASE GP-OIL FILTER	57	FILTER GP-FUEL	142
BREATHER GP	60	FILTER GP-WATER SEP & FUEL	145
FASTENER GP-OIL PUMP MOUNTING	61	GOVERNOR GP	146
FILLER GP-ENGINE OIL	62	LINES GP-FUEL	151
FILTER GP-ENGINE OIL	63	LINES GP-FUEL FILTER	153
FUMES DISPOSAL GP	64	LINES GP-FUEL INJECTION	155
GAUGE GP-OIL LEVEL (DIPSTICK)	65	MOUNTING GP-GOVERNOR	162
LINES GP-ENGINE OIL	67	ACTUATOR	162
		PUMP & MTG GP-FUEL TRANSFER	164
		PUMP GP-FUEL INJECTION	165
		PUMP GP-FUEL PRIMING	170
		PUMP GP-FUEL TRANSFER	172

TABLE OF CONTENTS

Name	Page	Name	Page
PUMP GP-GOV & FUEL INJ	174	SHUTOFF GP-ELECTRICAL	263
SEPARATOR GP-WATER	177	SOLENOID GP-SHUTOFF	264
SHUTOFF GP-MANUAL	179	STARTING AID GP	265
TORQUE CONTROL GP	180	STARTING AID GP-ETHER	266
ELECTRICAL AND STARTING SYSTEM	182	STARTING MOTOR GP-ELECTRIC	270
ALTERNATOR GP-CHARGING	182	STRIP GP-TERMINAL	273
BATTERY CHARGER GP	185	SUPPORT GP-BATTERY	274
BATTERY GP	188	SUPPORT GP-CABLE	277
BOX GP-CONNECTION	191	SWITCH AS	278
BRACKET GP-TERMINAL	194	SWITCH AS-LIQUID LEVEL	279
CABLE GP	195	SWITCH GP-DISCONNECT	281
CIRCUIT BREAKER GP	196	SWITCH GP-LIQUID LEVEL	283
CONDUIT GP	200	SWITCH GP-TOGGLE	284
CONNECTION GP-ELECTRICAL	202	TERMINAL & PLATE AS	285
CONNECTOR AS	205	TRANSFORMER GP-CURRENT	291
CONTACT AS-ELECTRICAL	205	WIRING GP-AIR SHUTOFF	305
CONTACTOR AS	205	WIRING GP-ENGINE	306
CONTACTOR GP	206	WIRING GP-GENERATOR	308
CONTROL GP-ELECTRONIC		WIRING GP-PANEL	310
GOVERNOR	221	ENCLOSURES, GUARDS AND BASES	317
CONTROL GP-ETHER ELECTRONIC	222	COVER GP-ENCLOSURE	317
CONTROL GP-VOLTAGE	223	DOOR GP-ACCESS	321
COVER GP-CIRCUIT BREAKER	224	DUCT GP-CABLE	323
FUSE GP	225	ENCLOSURE AS	324
HARNESS AS	227	FASTENER GP-ENCLOSURE	325
HARNESS AS-CONTROL	227	GUARD GP-ENGINE	326
HARNESS AS-ENGINE	227	MOUNTING GP-BEAM	328
HARNESS AS-MONITOR	230	GENERATORS	331
HARNESS AS-PANEL	230	CONNECTION GP-GENERATOR	
HARNESS AS-POWER	231	LEADS	331
HARNESS AS-SENSOR	231	CONNECTION GP-TERMINAL STRIP	346
HARNESS AS-WIRING	231	GENERATOR AR	351
HEATER GP-JACKET WATER	233	GENERATOR GP	358
MODULE GP-INTERFACE	236	HEATER GP-SPACE	429
MOUNTING GP	237	MOUNTING GP-GENERATOR	430
MOUNTING GP-BRACKET	238	MOUNTING GP-VOLTAGE	
MOUNTING GP-BUS BAR	240	REGULATOR	431
MOUNTING GP-ELECTRONIC		REGULATOR AS-VOLTAGE	433
CONTROL	241	REGULATOR GP-VOLTAGE	435
MOUNTING GP-JACKET WTR		OPERATOR STATION	441
HEATER	244	CONTROL GP-ALARM MODULE	441
MOUNTING GP-PANEL	246	CONTROL GP-EMCP ELECTRONIC	446
MOUNTING GP-TERMINAL STRIP	247	CONTROL GP-ENGINE MONITORING	460
PLUG GP-BOX	248	CONTROL GP-GENERATOR SET	463
RELAY GP	249	CONTROL GP-SPEED	469
RELAY GP-GROUND FAULT	250	COVER GP-ACCESS	471
SENSOR GP-COOLANT LEVEL	252	COVER GP-CONTROL PANEL	473
SENSOR GP-ENGINE	255	COVER GP-INSTRUMENT PANEL	476
SENSOR GP-LIQUID LEVEL	258	DOOR GP	480
SENSOR GP-PRESSURE	259	FASTENER GP-INSTRUMENT PANEL	484
SENSOR GP-SPEED	260	FASTENER GP-PANEL	485
SENSOR GP-TEMPERATURE	261	GAUGE GP-FUEL PRESSURE	486
SHUNT TRIP GP	262		
SHUNT-TRIP	262		

TABLE OF CONTENTS

Name	Page	Name	Page
KIT-ELECTRONIC CONVERSION	487		
MODULE GP-RELAY DRIVER	489		
MODULE GP-SYNCHRONIZING LIGHTS	492		
MODULE GP-SYSTEM COMMUNICATION	494		
MOUNTING GP-CONTROL PANEL	497		
MOUNTING GP-DIVIDER PLATE	499		
PANEL GP-CONTROL	500		
PANEL GP-ELECTRICAL	505		
PANEL GP-ELECTRONIC	508		
PANEL GP-INSTRUMENT	534		
POTENTIOMETER AS	535		
SEAL GP-ENCLOSURE	537		
SERVICE EQUIPMENT AND SUPPLIES	542		
CHART-PLATE & FILM	542		
FILM GP	543		
KIT-INSTALLATION	555		
PART NUMBER INDEX	B1		

GENERAL INFORMATION

1. ENGINE IDENTIFICATION

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

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

New Feature

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

* C A T 0 7 8 9 B G 6 S L 1 2 3 4 5 *

1 2 3 4

Where:

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

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

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

2. ORDERING PARTS

WARNING

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

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

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

3. PARTS MANUAL ORGANIZATION

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

4. TABLE OF CONTENTS

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

5. MAINTENANCE PARTS INDEX

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

GENERAL INFORMATION

6. INDEX

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

7. PART NUMBER INDEX

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

8. CAPTIONS

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

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

9. NON-SERVICED PARTS

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

10. PARTS LIST REFERENCE NUMBERS

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

11. INDENTED PART NAMES

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

12. ILLUSTRATION REFERENCE LETTERS

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

13. ABBREVIATIONS AND SYMBOLS

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

14. REPLACEMENT PARTS FOR GENERATORS

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



New Feature

15. DESCRIPTION OF TYPE CHANGES

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

GENERAL INFORMATION

16. <END>

This symbol indicates the end of an information element.

NOTE:

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

REPAIR ALTERNATIVES

REMANUFACTURED COMPONENTS

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

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

Typical components included in the Remanufacturing Program include:

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

Caterpillar Remanufactured engines for many engine arrangements are also available.

SUPPLEMENTAL COOLANT ADDITIVES

CUSTOMER BENEFITS:

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

- Provides measured coolant conditioner.

DESCRIPTION:

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

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

NOTE:

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

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

NOTE:

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

PARTS NEEDED:

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

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

() Indicates quantity required.

MAINTENANCE PARTS

DESCRIPTION	PART NUMBER	QTY	WHERE USED	PAGE
AIR INLET AND EXHAUST SYSTEM				
FILTER ELEMENT AS-AIR (PRIMARY)	142-1340	1	AIR CLEANER GP	100
	151-7737	1	AIR CLEANER GP	99
FILTER ELEMENT AS-AIR (SECONDARY)	142-1403	1	AIR CLEANER GP	98
	189-0202	1	AIR CLEANER GP	97
		1	AIR CLEANER GP	101
BASIC ENGINE				
PLUG-DRAIN (MAGNETIC) (OIL PAN)	206-7331	1	PAN GP-OIL	49
PLUG-DRAIN (OIL PAN)	9X-6451	1	PAN GP-OIL	49
V-BELT (ALTERNATOR)	4N-8216	1	MOUNTING GP-ALTERNATOR	47
V-BELT SET (INCLUDES 3-BELTS) (FAN DRIVE)	6N-6656	1	DRIVE GP-FAN	36
COOLING SYSTEM				
CAP AS-RADIATOR	153-1403	1	RADIATOR GP	87
		1	RADIATOR GP	90
HOSE (LOWER RADIATOR)	209-6964	1	RADIATOR GP	88
HOSE (RADIATOR LOWER)	209-6964	1	RADIATOR GP	90
HOSE (RADIATOR UPPER)	209-6963	1	RADIATOR GP	90
HOSE (UPPER RADIATOR)	209-6963	1	RADIATOR GP	88
REGULATOR-TEMPERATURE (92-DEG C)	248-5513	1	LINES GP-WATER	82
ELECTRICAL AND STARTING SYSTEM				
BATTERY (12-VOLT, MAINTENANCE FREE, WET)	9X-3404	2	BATTERY GP	190
BATTERY GP (12-VOLT) (DRY)	9X-9730	2	BATTERY GP	189
CIRCUIT BREAKER AS (1250-AMPERE)	227-2788	1	CIRCUIT BREAKER GP	199
CIRCUIT BREAKER AS (20-AMPERE)	200-8577	1	BOX GP-CONNECTION	191
CIRCUIT BREAKER AS (630-AMPERE)	237-2612	1	CIRCUIT BREAKER GP	197
CIRCUIT BREAKER AS (800-AMPERE)	227-2794	1	CIRCUIT BREAKER GP	198
CIRCUIT BREAKER GP (60-AMPERE)	6T-3645	1	BOX GP-CONNECTION	191
FUSE (1-AMPERE) (US SOURCED)	8K-4644	10	MODULE GP-INTERFACE	236
FUSE (10-AMPERE) (EUROPEAN SOURCED)	143-5080	1	BATTERY CHARGER GP	186
		1	BOX GP-CONNECTION	191
		1	CONTACTOR GP	210
		1	CONTACTOR GP	211
		1	CONTACTOR GP	216
		1	CONTACTOR GP	218
		1	FUSE GP	226
FUSE (10-AMPERE) (US SOURCED)	6V-7802	1	BATTERY CHARGER GP	186
		1	BOX GP-CONNECTION	191
		1	CONTACTOR GP	210
		1	CONTACTOR GP	211
		1	CONTACTOR GP	216
		1	CONTACTOR GP	218
		1	FUSE GP	226
FUSE (15-AMPERE) (US SOURCED)	9U-6398	1	FUSE GP	225
		1	WIRING GP-AIR SHUTOFF	305
FUSE (16-AMPERE) (EUROPEAN SOURCED)	151-7710	1	FUSE GP	225

MAINTENANCE PARTS

DESCRIPTION	PART NUMBER	QTY	WHERE USED	PAGE
FUSE (2-AMPERE)	143-4471 7W-0482	1	WIRING GP-AIR SHUTOFF	305
		1	CONTACTOR GP	220
		1	CONTACTOR GP	220
FUSE (2-AMPERE) (EUROPEAN SOURCED)	143-4471	3	WIRING GP-PANEL	312
		1	BATTERY CHARGER GP	187
		1	CONTACTOR GP	206
		1	CONTACTOR GP	208
		1	CONTACTOR GP	209
		1	CONTACTOR GP	210
		1	CONTACTOR GP	211
		1	CONTACTOR GP	212
		1	CONTACTOR GP	214
		1	CONTACTOR GP	216
		1	CONTACTOR GP	218
		2	WIRING GP-PANEL	311
		1	BATTERY CHARGER GP	187
		1	CONTACTOR GP	206
		1	CONTACTOR GP	208
FUSE (2-AMPERE) (US SOURCED)	7W-0482	1	CONTACTOR GP	209
		1	CONTACTOR GP	210
		1	CONTACTOR GP	211
		1	CONTACTOR GP	212
		1	CONTACTOR GP	214
		1	CONTACTOR GP	216
		1	CONTACTOR GP	218
		2	WIRING GP-PANEL	311
		1	CONTACTOR GP	220
		1	CONTACTOR GP	220
		1	BATTERY CHARGER GP	187
		1	CONTACTOR GP	206
		1	CONTACTOR GP	212
		1	CONTACTOR GP	214
		1	CONTACTOR GP	216
FUSE (4-AMPERE)	190-2557	1	CONTACTOR GP	218
		1	BATTERY CHARGER GP	187
		1	CONTACTOR GP	206
		1	CONTACTOR GP	212
		1	CONTACTOR GP	214
FUSE (4-AMPERE) (EUROPEAN SOURCED)	238-3255	1	CONTACTOR GP	216
		1	CONTACTOR GP	218
		1	BATTERY CHARGER GP	187
		1	CONTACTOR GP	206
		1	CONTACTOR GP	212
FUSE (4-AMPERE) (US SOURCED)	190-2557	1	CONTACTOR GP	214
		1	CONTACTOR GP	216
		1	CONTACTOR GP	218
		1	BATTERY CHARGER GP	187
		1	CONTACTOR GP	206
FUSE (6-AMPERE) (EUROPEAN SOURCED)	143-4472	1	CONTACTOR GP	212
		2	BATTERY CHARGER GP	185
		1	BATTERY CHARGER GP	186
		2	BATTERY CHARGER GP	187
		2	CONTACTOR GP	208
		2	CONTACTOR GP	209
		1	CONTACTOR GP	210
		1	CONTACTOR GP	211
		2	CONTACTOR GP	212
		2	CONTACTOR GP	214
		1	CONTACTOR GP	216
		1	CONTACTOR GP	218
		1	CONTACTOR GP	218
		1	CONTACTOR GP	218
		1	CONTACTOR GP	218

MAINTENANCE PARTS

DESCRIPTION	PART NUMBER	QTY	WHERE USED	PAGE
FUSE (6-AMPERE) (US SOURCED)	190 - 2558	2	BATTERY CHARGER GP	185
		1	BATTERY CHARGER GP	186
		2	BATTERY CHARGER GP	187
		1	CONTACTOR GP	208
		1	CONTACTOR GP	209
		1	CONTACTOR GP	210
		1	CONTACTOR GP	211
		2	CONTACTOR GP	212
		2	CONTACTOR GP	214
		1	CONTACTOR GP	216
		1	CONTACTOR GP	218
KEY (BATTERY DISCONNECT)	8H - 5306	1	SWITCH GP-DISCONNECT	281
SHUNT TRIP AS	223 - 4234	1	SHUNT-TRIP	262
FUEL SYSTEM				
CAP AS-FUEL FILLER (FUEL TANK)	143 - 0853	1	BASE GP-FUEL TANK	128
ELEMENT-WATER SEPARATOR	133 - 5673	1	SEPARATOR GP-WATER	177
ELEMENT-WATER SEPARATOR (PRIMARY)	133 - 5673	1	FILTER GP-WATER SEP & FUEL	145
FILTER ELEMENT-FUEL (PRIMARY)	9M - 2342	1	FILTER GP-FUEL	143
FILTER-FUEL (ADVANCED EFFICIENCY)	1R - 0749	1	FILTER GP-FUEL	142
GASKET (FUEL PRIMING PUMP)	1P - 0436	1	PUMP GP-FUEL PRIMING	170
SCREEN AS (FUEL INJECTION PUMP)	8N - 6680	1	PUMP GP-GOV & FUEL INJ	175
GENERATORS				
FUSE (10-AMPERE)	6V - 7802	3	REGULATOR GP-VOLTAGE	436
		3	REGULATOR GP-VOLTAGE	438
		3	REGULATOR GP-VOLTAGE	439
FUSE (10-AMPERE) (US SOURCED)	6V - 7802	3	REGULATOR GP-VOLTAGE	435
LUBRICATION SYSTEM				
BREATHING AS (CRANKCASE)	9Y - 2988	1	BREATHING GP	60
CAP AS-FILLER (ENGINE OIL)	6N - 2985	1	FILLER GP-ENGINE OIL	62
FILTER AS-ENGINE OIL (STANDARD EFFICIENCY)	1R - 0716	1	FILTER GP-ENGINE OIL	63

MAINTENANCE PARTS

DESCRIPTION	PART NUMBER	QTY	WHERE USED	PAGE
OPERATOR STATION				
BATTERY (LITHIUM) (3-VOLT PARALLEL, 6-VOLT SERIES)	101-1785	1	MODULE GP-SYSTEM COMMUNICATION	496
FUSE (1-AMPERE) (US SOURCED)	8K-4644	10	MODULE GP-RELAY DRIVER	491
FUSE (10-AMPERE)	3K-8782	10	CONTROL GP-EMCP ELECTRONIC	456
FUSE (10-AMPERE) (EUROPEAN SOURCED)	143-5080	1	PANEL GP-ELECTRICAL	506
		2	PANEL GP-ELECTRONIC	526
FUSE (10-AMPERE) (OUTSIDE NACD)	143-5080	2	PANEL GP-ELECTRONIC	528
		2	PANEL GP-ELECTRONIC	531
FUSE (10-AMPERE) (US SOURCED)	3K-8782	8	CONTROL GP-EMCP ELECTRONIC	452
		8	CONTROL GP-EMCP ELECTRONIC	453
	6V-7802	1	PANEL GP-ELECTRICAL	506
		2	PANEL GP-ELECTRONIC	526
		2	PANEL GP-ELECTRONIC	528
		2	PANEL GP-ELECTRONIC	531
FUSE (2-AMPERE) (EUROPEAN SOURCED)	143-4471	1	PANEL GP-ELECTRICAL	506
		3	PANEL GP-ELECTRONIC	526
FUSE (2-AMPERE) (OUTSIDE NACD)	143-4471	3	PANEL GP-ELECTRONIC	528
		3	PANEL GP-ELECTRONIC	531
FUSE (2-AMPERE) (US SOURCED)	7W-0482	3	CONTROL GP-EMCP ELECTRONIC	454
		1	PANEL GP-ELECTRICAL	506
		3	PANEL GP-ELECTRONIC	526
		3	PANEL GP-ELECTRONIC	528
		3	PANEL GP-ELECTRONIC	531
FUSE (4-AMPERE) (EUROPEAN SOURCED)	238-3255	1	PANEL GP-ELECTRICAL	506
FUSE (4-AMPERE) (US SOURCED)	190-2557	1	PANEL GP-ELECTRICAL	506
FUSE (6-AMPERE) (EUROPEAN SOURCED)	143-4472	1	PANEL GP-ELECTRICAL	506
FUSE (6-AMPERE) (US SOURCED)	190-2558	1	PANEL GP-ELECTRICAL	506
LAMP (120-VOLT, 6-WATT)	5N-3615	2	MODULE GP-SYNCHRONIZING LIGHTS	492
LAMP (24-VOLT)	7N-5876	1	DOOR GP	481
		2	PANEL GP-CONTROL	500
		2	PANEL GP-CONTROL	502
SERVICE EQUIPMENT AND SUPPLIES				
FILM-WARNING (LIFTING INSTRUCTIONS)	144-6336	4	FILM GP	552
FILM-WARNING (LIFTING INSTRUCTIONS) (PACKAGE GENSET LIFTING INST.)	144-6336	4	FILM GP	546
FILM-WARNING (LIFTING INSTRUCTIONS) (PACKAGE GENSET)	144-6336	4	FILM GP	549

INDEX

Name	Page	Name	Page
A			
AFTERCOOLER GP-WATER	94	CONNECTION GP-ELECTRICAL	204
AIR CLEANER GP	96	CONNECTION GP-ELECTRICAL- CIRCUIT BREAKER	202
	97		203
	98	CONNECTION GP-GENERATOR LEADS	331
	99		332
	100		333
	101		334
ALTERNATOR GP-CHARGING	182		335
			336
			337
			338
			339
			340
B			
BASE GP-FUEL TANK	128		341
BASE GP-OIL FILTER-ENGINE	57		343
	58		344
	59		345
BATTERY		CONNECTION GP-TERMINAL STRIP	346
(12-VOLT, MAINTENANCE FREE, WET)	190		347
BATTERY (LITHIUM)			348
(3-VOLT PARALLEL, 6-VOLT SERIES)	496		349
BATTERY CHARGER GP	185		350
	186	CONNECTOR AS	205
	187	CONTACT AS-ELECTRICAL	205
BATTERY GP	188	CONTACTOR AS	205
	189	CONTACTOR GP	220
	190	CONTACTOR GP-BATTERY CHARGER	208
BATTERY GP (12-VOLT) (DRY)	189		209
BOX GP-CONNECTION	191		210
	193		211
BRACKET GP-TERMINAL	194		212
BREATHER AS (CRANKCASE)	60		214
BREATHER GP-CRANKCASE	60		216
			218
			206
C			
CABLE GP-GROUND STRAP	195	CONTACTOR GP-HEATER	129
CAMSHAFT GP	7	CONTROL AS-GOVERNOR	130
CAP AS-AIR CLEANER	103	CONTROL GP-ALARM MODULE	441
CAP AS-FILLER (ENGINE OIL)	62		442
CAP AS-FUEL FILLER (FUEL TANK)	128		443
CAP AS-RADIATOR	87		444
	90		445
CARTRIDGE GP-TURBOCHARGER	104	CONTROL GP-ELECTRONIC GOVERNOR	221
CHART-PLATE & FILM	542	CONTROL GP-EMCP ELECTRONIC	446
CIRCUIT BREAKER AS (1250-AMPERE)	199		447
CIRCUIT BREAKER AS (20-AMPERE)	191		448
CIRCUIT BREAKER AS (630-AMPERE)	197		449
CIRCUIT BREAKER AS (800-AMPERE)	198		450
CIRCUIT BREAKER GP	196		451
	197		452
	198		453
	199		454
CIRCUIT BREAKER GP (60-AMPERE)	191		455
CONDUIT GP	200		456

INDEX

Name	Page	Name	Page
	458	D	
	459		
CONTROL GP-ENGINE MONITORING	460	DAMPER & PULLEY GP	34
	461	DOOR GP	480
	462		481
CONTROL GP-ETHER ELECTRONIC-RELAY . . .	222	DOOR GP-DUST PROOF	483
CONTROL GP-GENERATOR SET	463	DOOR GP-ACCESS	321
	464		322
	465	DRIVE GP-ACCESSORY	35
	466	DRIVE GP-FAN	36
	467	DRIVE GP-GOVERNOR & FUEL PUMP	137
	468		139
CONTROL GP-GOVERNOR	131	DUCT GP-CABLE	323
	132		
	133		
	135	E	
CONTROL GP-SPEED	469		
CONTROL GP-VOLTAGE	223	ELBOW GP-EXHAUST	106
COOLER GP-ENGINE OIL	76		107
CORE AS (ENGINE OIL COOLER)	76	ELEMENT-WATER SEPARATOR	177
CORE AS-AFTERCOOLER	94	ELEMENT-WATER SEPARATOR (PRIMARY)	145
COUPLING GP	8	ENCLOSURE AS	324
COUPLING GP-GENERATOR	9	ENGINE AR	1
COVER GP-ACCESS	471		3
	472		
COVER GP-CIRCUIT BREAKER	224		
COVER GP-CONTROL PANEL	473		
	474	F	
COVER GP-CYLINDER BLOCK	10		
COVER GP-ENCLOSURE	317	FASTENER GP-ENCLOSURE	325
	318	FASTENER GP-FRONT HOUSING	38
	319	FASTENER GP-FUEL INJ PUMP	140
COVER GP-ENCLOSURE-TOP	320		141
COVER GP-ENGINE LIFTING EYE	11	FASTENER GP-INSTRUMENT PANEL	484
COVER GP-FLYWHEEL HOUSING	12	FASTENER GP-OIL PUMP MOUNTING	61
COVER GP-FRONT HOUSING	13	FASTENER GP-PANEL	485
	15	FILLER GP-ENGINE OIL	62
COVER GP-FUEL TRANSFER	136	FILM (CONTROL PANEL)	500
COVER GP-INSTRUMENT PANEL	476		502
	477	FILM (EMCP 3 ANNUNCIATOR)	463
	478	FILM GP	543
	479		546
COVER GP-VALVE MECHANISM	16		549
CRANKSHAFT GP	17		552
CYLINDER BLOCK AS	18	FILM-CERTIFICATION (EMCP 3)	467
	19		468
CYLINDER BLOCK GP	20	FILM-CONTROL PANEL	481
	22	FILM-CONTROL PANEL (ALARM MODULE)	443
	24	FILM-CONTROL PANEL	
	26	(CUSTOM ALARM MODULE IDENTs)	459
	28	FILM-CONTROL PANEL	
CYLINDER HEAD GP	29	(CUSTOM ALARM MODULE)	444
	30	FILM-CONTROL PANEL	
	31	(GENERATOR SET CONTROL +)	448
	33		459
			487

INDEX

Name	Page	Name	Page
FILM-CONTROL PANEL (GENERATOR SET CONTROL +) (FOR USE WITH EUI)	448	FILM-WARNING (LIFTING INSTRUCTIONS) (PACKAGE GENSET LIFTING INST.)	546
FILM-DANGER (SHOCK, ELECTROCUTION HAZARD)	434	FILM-WARNING (LIFTING INSTRUCTIONS) (PACKAGE GENSET)	549
FILM-EMCP II (MUI)	449	FILM-WARNING (SHOCK HAZARD)	546
FILM-IDENTIFICATION (CATERPILLAR)	464		549
	465		552
	490	FILM-WARNING (SHOCK, ELECTROCUTION HAZARD)	433
FILM-IDENTIFICATION (CONTROL PANEL)	313	FILTER AS-ENGINE OIL (STANDARD EFFICIENCY)	63
FILM-IDENTIFICATION (CUSTOMER INTERFACE MODULE)	489	FILTER ELEMENT AS-AIR (PRIMARY)	99
FILM-IDENTIFICATION (EMCP 3.2) (US SOURCED)	464		100
FILM-IDENTIFICATION (EMCP 3.3)	465	FILTER ELEMENT AS-AIR (SECONDARY)	97
FILM-IDENTIFICATION (FUEL)	546		98
	549		101
	552	FILTER ELEMENT-FUEL (PRIMARY)	143
FILM-INFORMATION (BATTERY POWER DISCONNECT)	282	FILTER GP-ENGINE OIL	63
FILM-INFORMATION (CONTROL PANEL) (EMCP II - GRAPHIC/TEXT)	450	FILTER GP-FUEL	142
FILM-INFORMATION (CONTROL PANEL) (EUI)	449		143
FILM-INFORMATION (ELEC COMPONENT IDENTIFICATIONS)	508		144
	511	FILTER GP-WATER SEP & FUEL	145
	513	FILTER-FUEL (ADVANCED EFFICIENCY)	142
	526	FITTING GP-EXHAUST	108
	528		109
	531	FLANGE AS-RADIATOR	77
FILM-INFORMATION (ELECTRIC COMPONENT IDENTIFY)	191	FLANGE GP-RADIATOR	78
FILM-INFORMATION (EMCP 3.2) (EUROPEAN SOURCED)	464	FLYWHEEL GP	39
FILM-INFORMATION (GENERATOR SET CONTROL +)	487	FUMES DISPOSAL GP	64
	488	FUSE (1-AMPERE) (US SOURCED)	236
FILM-INFORMATION (LIFT EYE LOCATION)	546		491
	549	FUSE (10-AMPERE)	436
FILM-INFORMATION (PICTOGRAPHS DESCRIPTION)	552		438
FILM-INFORMATION (READ OMM)	546		439
	549		456
	552	FUSE (10-AMPERE) (EUROPEAN SOURCED)	186
FILM-SYNCHRONIZING PANEL	492		191
FILM-TRADEMARK (CATERPILLAR)	549		210
	552		211
FILM-TRADEMARK (CATERPILLAR) (DIE CUT 75MM HEIGHT)	546		216
FILM-WARNING (HOT SURFACE)	546		218
	549		226
	552		506
FILM-WARNING (LIFTING INSTRUCTIONS)	552		526
		FUSE (10-AMPERE) (OUTSIDE NACD)	528
			531
		FUSE (10-AMPERE) (US SOURCED)	186
			191
			210
			211
			216
			218
			226
			435

INDEX

Name	Page	Name	Page
	452		214
	453		216
	506		218
	526		506
	528	FUSE (6-AMPERE) (EUROPEAN SOURCED) . . .	185
	531		186
FUSE (15-AMPERE) (US SOURCED)	225		187
	305		208
FUSE (16-AMPERE)			209
(EUROPEAN SOURCED)	225		210
	305		211
FUSE (2-AMPERE)	220		212
	312		214
FUSE (2-AMPERE) (EUROPEAN SOURCED) . . .	187		216
	206		218
	208		506
	209	FUSE (6-AMPERE) (US SOURCED)	185
	210		186
	211		187
	212		208
	214		209
	216		210
	218		211
	311		212
	506		214
	526		216
FUSE (2-AMPERE) (OUTSIDE NACD)	528		218
	531		506
FUSE (2-AMPERE) (US SOURCED)	187	FUSE GP	226
	206	FUSE GP-BLOCK HEATER	225
	208		
	209		
	210		
	211		
	212		
	214		
	216		
	218		
	311		
	454		
	506		
	526		
	528		
	531		
FUSE (4-AMPERE)	220		
FUSE (4-AMPERE) (EUROPEAN SOURCED) . . .	187		
	206		
	212		
	214		
	216		
	218		
	506		
FUSE (4-AMPERE) (US SOURCED)	187		
	206		
	212		

G

GASKET (FUEL PRIMING PUMP)	170
GAUGE (FUEL LEVEL)	128
GAUGE AS-OIL LEVEL (DIPSTICK) (ENGINE) . . .	65
GAUGE GP-FUEL PRESSURE	486
GAUGE GP-OIL LEVEL (DIPSTICK)-ENGINE . . .	65
GEAR GP-FRONT	40
GENERAL AR	5
	6
GENERATOR AR	351
	352
	353
	354
	355
	356
	357
GENERATOR GP	358
	360
	362
	364
	367
	370
	373

INDEX

Name	Page	Name	Page
	376		511
	379	HARNESS AS-PANEL (CONTROL)	505
	382	HARNESS AS-PANEL (EMCP 3)	526
	384		528
	387		531
	390	HARNESS AS-PANEL (EMCP)	452
	393		453
	395	HARNESS AS-PANEL (EMCP2E DOOR)	456
	397	HARNESS AS-PANEL (KILOWATT RELAY)	
	399	(EMCP II+ ELECTRONIC CONTROL)	312
	401	HARNESS AS-PANEL	
	403	(SYNCHRONIZING LIGHTS MODULE)	311
	405	HARNESS AS-PANEL-PANEL	230
	407	HARNESS AS-POWER	231
	409	HARNESS AS-SENSOR	231
	411	HARNESS AS-STARTING AID	265
	413		278
	415	HARNESS AS-WIRING	231
	417		232
	419		251
	421	HARNESS AS-WIRING	
	423	(BATTERY CHARGER)	185
	425		208
	427		209
GOVERNOR GP	146		210
GUARD GP-BELT	41		211
GUARD GP-DAMPER	42		212
GUARD GP-ENGINE	326		214
			218
		HARNESS AS-WIRING (BATTERY CHARGER)	
		(HEATERS)	216
HARNESS AS (MOTORISED GOVERNOR)	314	HARNESS AS-WIRING	
HARNESS AS-ENGINE OPTION	227	(BATTERY CHARGER, HEATER)	187
HARNESS AS-ALARM	249	HARNESS AS-WIRING (CIRCUIT BREAKER) ...	202
HARNESS AS-CONTROL	227		203
HARNESS AS-CONTROL (ANNUNCIATOR) ...	504	HARNESS AS-WIRING	
HARNESS AS-CONTROL		(CURRENT TRANSFORMER, DROOP)	294
(DISCRETE INPUT/OUTPUT)	461		295
HARNESS AS-ENGINE	227		296
	228		297
	230		298
	306		299
HARNESS AS-HEATER	220		300
HARNESS AS-MONITOR	230	HARNESS AS-WIRING	
HARNESS AS-MONITOR (THERMOCOUPLE) ...	462	(DIGITAL VOLTAGE REGULATOR)	436
HARNESS AS-PANEL	506		439
	513	HARNESS AS-WIRING	
HARNESS AS-PANEL (AIR SHUTOFF)	305	(ELECTRONIC GOVERNOR)	310
HARNESS AS-PANEL (ALARM MODULE)		HARNESS AS-WIRING	
(ALARM MODULE)	313	(GENERATOR RUN RELAY)	316
	444	HARNESS AS-WIRING (GROUND FAULT)	250
HARNESS AS-PANEL (ALARM RELAY)			251
(ALARM RELAY)	315	HARNESS AS-WIRING (HEATER)	206
HARNESS AS-PANEL (BATTERY CHARGER) ...	186	HARNESS AS-WIRING	
HARNESS AS-PANEL (CHASSIS)	508	(SERVICE CONNECTOR)	309

INDEX

Name	Page	Name	Page
HARNESS AS-WIRING (VOLTAGE REGULATOR)	242	LINES GP-TURBOCHARGER OIL	71
	243		72
HARNESS AS-WIRING-EMERGENCY STOP ...	231	LINES GP-WATER	82
HEATER GP-FUEL (WATER SEPARATOR, 12-VOLT)	145		
HEATER GP-JACKET WATER	233	M	
	234	MANIFOLD GP-EXHAUST	112
	235		113
HEATER GP-SPACE-GENERATOR	429	MODULE GP-ALARM	463
HOSE (LOWER RADIATOR)	88	MODULE GP-INTERFACE	236
HOSE (RADIATOR LOWER)	90	MODULE GP-RELAY DRIVER	489
HOSE (RADIATOR UPPER)	90		490
HOSE (UPPER RADIATOR)	88		491
HOUSING GP-FLYWHEEL	43	MODULE GP-SYNCHRONIZING LIGHTS	492
HOUSING GP-FRONT	44	MODULE GP-SYSTEM COMMUNICATION	494
HOUSING GP-FUEL PUMP	165		495
	168		496
I		MOUNTING GP	237
INDICATOR AS (FUEL PRESSURE)	486	MOUNTING GP-ALTERNATOR	47
INDICATOR-AIR FILTER CHANGE	101	MOUNTING GP-BEAM	328
			330
K		MOUNTING GP-BRACKET-CABLE TIE	239
KEY (BATTERY DISCONNECT)	281	MOUNTING GP-BRACKET-	
KIT-CARTRIDGE (TURBOCHARGER)	104	SUPPORT ASSEMBLY	238
KIT-ELECTRONIC CONVERSION	487	MOUNTING GP-BUS BAR	240
	488	MOUNTING GP-CONTROL PANEL	497
KIT-INSTALLATION	555	MOUNTING GP-CONTROL PANEL-DOOR	498
		MOUNTING GP-DIVIDER PLATE	499
		MOUNTING GP-ELECTRONIC CONTROL	241
			242
			243
		MOUNTING GP-EXHAUST	114
		MOUNTING GP-GENERATOR	430
		MOUNTING GP-GOVERNOR ACTUATOR	162
		MOUNTING GP-JACKET WTR HEATER	244
			245
		MOUNTING GP-MUFFLER	115
			116
		MOUNTING GP-PANEL	246
		MOUNTING GP-TERMINAL STRIP	247
		MOUNTING GP-VOLTAGE REGULATOR	431
		MOUNTING GP-VOLTAGE REGULATOR-	
		GENERATOR	432
		MUFFLER	117
		MUFFLER AS	119
		MUFFLER AS-RESIDENTIAL	118
		MUFFLER GP	120
		P	
		PAN GP-OIL	49
		PANEL GP-CONTROL	500
			502
			504
		PANEL GP-ELECTRICAL	505

INDEX

Name	Page	Name	Page
PANEL GP-ELECTRONIC	506		415
	508		419
	511		425
	513		434
	516	REGULATOR AS-VOLTAGE (24-VOLT)	
	518	(ALTERNATOR)	182
	520	REGULATOR AS-VOLTAGE (GENERATOR)	358
	521		360
	522		362
	524		364
	526		367
	528		370
	531		373
PANEL GP-INSTRUMENT	534		376
PISTON & ROD GP	50		379
	51		382
PLATE-IDENTIFICATION			384
(TURBOCHARGER CARTRIDGE)	124		387
PLATE-WARNING (HOT SURFACE)	326		390
PLUG GP-BOX	248		393
PLUG-DRAIN (MAGNETIC) (OIL PAN)	49		395
PLUG-DRAIN (OIL PAN)	49		397
PLUG-PIPE	49	REGULATOR AS-VOLTAGE-GENERATOR	433
	82	REGULATOR GP-VOLTAGE	435
POTENTIOMETER (1000-OHM)	223		436
POTENTIOMETER (2000-OHM)	469	REGULATOR GP-VOLTAGE-GENERATOR	438
	535		439
	536	REGULATOR-TEMPERATURE (92-DEG C)	82
POTENTIOMETER AS	536	RELAY (10-AMPERE, 24-VOLT)	
POTENTIOMETER AS-VOLT ADJUST AVR	535	(US SOURCED)	249
PRECLEANER GP-AIR	121		315
PUMP & MTG GP-FUEL TRANSFER	164		316
PUMP GP-ENGINE OIL	73		505
PUMP GP-FUEL INJECTION	165		508
	167		511
	168		513
PUMP GP-FUEL PRIMING	170		526
PUMP GP-FUEL TRANSFER	172		528
PUMP GP-GOV & FUEL INJ	174		531
	175	RELAY (24-VOLT)	191
PUMP GP-SUMP	74	RELAY (24-VOLT) (AIR SHUTOFF)	222
	75	RELAY (24-VOLT) (CONTROL PANEL)	305
PUMP GP-WATER	84	RELAY (24-VOLT) (EUROPEAN SOURCED)	249
	85		315
			316
			505
			508
			526
RADIATOR GP	87	RELAY (24-VOLT) (OUTSIDE NACD)	511
	88		513
	90		528
REGULATOR AS-VOLTAGE	399		531
	403	RELAY (GROUND FAULT, 24-VOLT, DC)	251
	407	RELAY GP-GENERAL ALARM	249
	409	RELAY GP-GROUND FAULT	250
	411		

R

INDEX

Name	Page	Name	Page
	251	SWITCH AS-ETHER START	278
ROCKER ARM GP	52	SWITCH AS-LIQUID LEVEL	279
			283
		SWITCH AS-LIQUID LEVEL-DIESEL FUEL	280
		SWITCH AS-MAGNETIC (24-VOLT) (STARTING MOTOR)	191
SCREEN AS (FUEL INJECTION PUMP)	175	SWITCH AS-PUSH BUTTON (ALARM SILENCE)	441
SEAL GP-CRANKSHAFT	53	SWITCH AS-PUSH BUTTON (EMERGENCY STOP)	481
	54	SWITCH AS-PUSH BUTTON (LAMP TEST)	441
SEAL GP-CRANKSHAFT (FRONT)	54		443
SEAL GP-ENCLOSURE	537	SWITCH AS-PUSH BUTTON (STOP)	500
	538		502
	541		
SEAL GP-ENCLOSURE-GROMMET	540	SWITCH AS-TEMPERATURE (ETHER AID ARMING)	266
SENDER-PRESSURE (ENGINE OIL)	256	SWITCH AS-TOGGLE (CLEAR/MODE-MOTORISED GOVERNOR)	314
	257	SWITCH AS-TOGGLE (FRONT AUXILLARY FLOOD LIGHTS)	500
SENDER-TEMPERATURE (COOLANT)	256		502
	257		
SENSOR GP-COOLANT LEVEL	252	SWITCH AS-TOGGLE (GOVERNOR CONTROL)	135
	254	SWITCH AS-TOGGLE (MOMENTARY)	284
SENSOR GP-COOLANT LEVEL-WATER	253	SWITCH AS-TOGGLE (PANEL LIGHT)	481
SENSOR GP-ENGINE	256	SWITCH GP-DISCONNECT-BATTERY	281
	257		282
SENSOR GP-ENGINE-ENGINE OIL	255	SWITCH GP-LIQUID LEVEL	283
SENSOR GP-LIQUID LEVEL	258	SWITCH GP-TOGGLE-MOMENTARY	284
SENSOR GP-LIQUID LEVEL (COOLANT)	253	SWITCH-ROTARY (4-POSITION) (RUN CONTROL)	500
SENSOR GP-PRESSURE (ENGINE OIL)	255		502
SENSOR GP-PRESSURE-ENGINE OIL	259	SWITCH-TOGGLE (BREAK RETRACTION)	265
SENSOR GP-SPEED	260	SWITCH-TOGGLE (ETHER START)	278
SENSOR GP-SPEED-ENGINE SPEED	260	SWITCH-TOGGLE (ON/OFF CONTROL)	492
SENSOR GP-TEMPERATURE (COOLANT)	255		
SENSOR GP-TEMPERATURE- ENGINE COOLANT	261		
SENSOR-TEMPERATURE (ENGINE OIL)	256		
SEPARATOR GP-WATER	177		
SHIELD GP-MANIFOLD	122		
SHUNT TRIP AS	262		
SHUNT TRIP GP	262		
SHUNT-TRIP	262		
SHUTOFF GP-AIR	123		
SHUTOFF GP-ELECTRICAL-FUEL	263		
SHUTOFF GP-MANUAL-FUEL	179		
SOLENOID GP-SHUTOFF-FUEL	264		
STARTING AID GP-ETHER	265		
STARTING AID GP-ETHER	266		
	268		
STARTING MOTOR GP-ELECTRIC	270		
	271		
STRIP GP-TERMINAL	243		
	273		
SUPPORT GP-BATTERY	274		
	275		
	276		
SUPPORT GP-CABLE	277		
SUPPORT GP-ENGINE	55		
SUPPORT GP-RADIATOR	92		

INDEX

Name	Page	Name	Page
	302		
	303		
	304		
TURBOCHARGER GP	124		
	125		
	126		
	127		
V			
V-BELT (ALTERNATOR)	47		
V-BELT SET (INCLUDES 3-BELTS) (FAN DRIVE)	36		
VALVE GP-COOLANT SAMPLING— WATER, COOLANT	93		
VALVE GP-ETHER STARTING (24-VOLT)	266		
	268		
VALVE MECHANISM GP	56		
W			
WIRING GP-AIR SHUTOFF	305		
WIRING GP-ENGINE	306		
WIRING GP-GENERATOR	308		
	309		
WIRING GP-PANEL	312		
	313		
	315		
WIRING GP-PANEL—GENERATOR RUN	316		
WIRING GP-PANEL—GOVERNOR	310		
WIRING GP-PANEL— MOTORISED GOVERNOR	314		
WIRING GP-PANEL—SYNCHRONIZER	311		

MEMORANDA

ENGINE ARRANGEMENT

150-2981 ENGINE AR (contd.)

i03397848

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	4P-7610	1	SENSOR GP-SPEED						260
Y	9L-6671	1	SHIELD GP-MANIFOLD						122
Y	2W-8198	1	SHUTOFF GP-ELECTRICAL						263
Y	2W-9161	1	SHUTOFF GP-MANUAL						179
Y	4N-1062	1	STARTING MOTOR GP-ELECTRIC						270
Y	9Y-1856	1	SUPPORT GP-ENGINE						55
Y	1W-4209	1	TURBOCHARGER GP						125
Y	242-1369	1	VALVE GP-COOLANT SAMPLING						93
Y	4W-2461	1	VALVE MECHANISM GP						56

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

R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

263-2539 ENGINE AR (contd.)

i03297120

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	9L-6671	1	SHIELD GP-MANIFOLD						122
Y	2W-8198	1	SHUTOFF GP-ELECTRICAL						263
Y	2W-9161	1	SHUTOFF GP-MANUAL						179
Y	4N-1062	1	STARTING MOTOR GP-ELECTRIC						270
Y	9Y-1856	1	SUPPORT GP-ENGINE						55
Y	130-5622	1	TURBOCHARGER GP						127
Y	242-1369	1	VALVE GP-COOLANT SAMPLING						93
Y	4W-2461	1	VALVE MECHANISM GP						56

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

R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION

Thanks for your reading.

Please click [here](#) to download complete manual instantly.

And can also choose other manuals.

Feel free ---> write to me with any questions.

Our service email:

manuals007@hotmail.com