



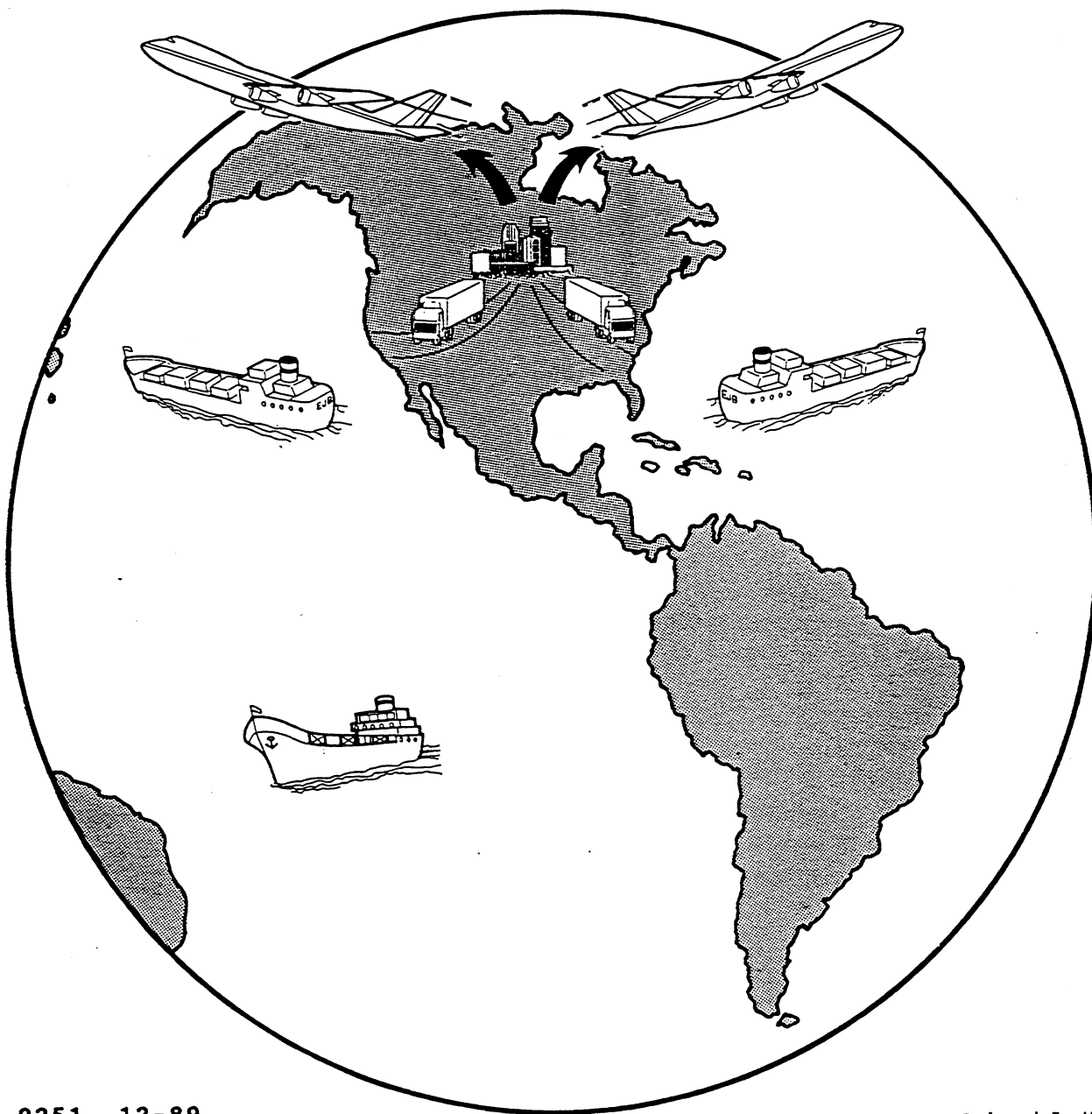
Onan
Generator Set

KTA33 SPEC E

DFJC SPEC E

Parts Catalog

World Wide Parts & Service



SAFETY PRECAUTIONS

The following symbols are used in Onan manuals to alert users to the potentially dangerous conditions relating to maintenance of the equipment and replacement of parts. Please read and observe.



This symbol warns of immediate hazards which will result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in personal injury or product or property damage.

MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO., and SERIAL NO. from the Onan nameplate.

For handy reference, insert your nameplate information in the spaces below:

MODEL AND SPEC NO. _____

SERIAL NO. _____

PRODUCT SAFETY PRECAUTIONS



Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.



Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!



Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives, or using solvents take all necessary precautions not to ingest, breathe the fumes, or contact the liquids. Use adequate ventilation and wear protective gloves, masks and clothing!

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M O D E L I D E N T I F I C A T I O N T A B L E

ENGINE MODEL	GENERATOR SET IDENTIFICATION		NEWAGE			BATTERY
	CUMMINS POWER SYSTEM	ONAN POWER SYSTEM	GENERATOR	HERTZ	RPM	VOLTAGE
KTA38-G3	800KTA33/xxxxxE	800DFJC/xxxxxE	HC634C & HC734A	50	1500	24 VDC
KTA38-G3	900KTA33/xxxxxE	900DFJC/xxxxxE	HC634D & HC634C & HC634D & HC734A	60	1800	24 VDC

INTRODUCTION

FORWARD

This Service Parts Catalog provides identification of the Maintenance, Service or Repair parts for the Product(s) identified in the Model Identification Table. The Catalog is divided into sections applicable to the Major Sections of the Product, and Section Table of Contents are provided for your convenience.

ILLUSTRATIONS

The illustrations in the Parts Catalog are arranged in groups of related items, and each part or assembly is identified by a Reference Number shown in the illustration. All parts illustrated are typical, and unless otherwise mentioned in the description column, the parts are interchangeable between models. These typical illustrations are subject to change and reflect only the latest replacement parts arrangement. The RIGHT and LEFT sides of a Generator Set are determined by FACING the FRONT of the Set (Engine Radiator End).

PART NUMBERS

Dual Part Number columns are used. The first column contains the CENTRAL PARTS DISTRIBUTION CENTER Part Number; the second (SOURCE) column provides for identification of an alternate source for the part. The alternate source may be a Manufacturer, Supplier or Subsidiary of this Corporation. The Manufacturer/Supplier is assigned Identifying Letter(s) which are found in the third (CODE) column. A List of Manufacturers and Suppliers with their address, phone numbers, etc. are located in a separate section of this Parts Catalog.

REPLACEMENT ENGINE PARTS

The Models with engines supplied by a separate Engine Manufacturer will have only those external engine components added or modified during the Assembly of these Models. Most General Maintenance Parts and some engine optional features may be identified in this Parts Catalog. For internal engine parts and components not covered herein; refer to the applicable Manufacturer's engine Parts Catalog. The engine Manufacturer will be listed in the Manufacturer & Supplier (SOURCE CODE) Section.

INTRODUCTION

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MODEL IDENTIFICATION

The Model Table provides identification of the Product(s) which this Service Parts Catalog covers. Some Tables may include an Engine Identifier along with the Generator Set Identifier when the Manufacturer of the Engine is a Supplier of Engine Replacement Parts.

SAMPLE ENGINE IDENTIFIERS

4A2.3GS/GC1	6CTA8.3GC/GS1	KTTA50GS/GC1
6AT3.4GS/GC1	KTTA19GS/GC1	NT855GS/GC4
4BT3.9GS/GC1	KTA38GS/GC1	NTTA855GS/GC2
6CT8.3GS/GC1	KTA50GS/GC3	VTA28GS/GC3

SAMPLE MODEL IDENTIFIERS

When Engine Identifiers are used, the Model Identifier will also be located on the Nameplate. It is referred to as ID. NO. The sample Nameplate below has an arrow which points to the ID. NO. Location. Normally the MODEL Identifier follows the MODEL on the nameplate.

GEN SET IDENTIFIER SAMPLES

60 DGBA Z /13756 A		
175 CTA 62 /32476 C		
200 NT 4 /29876 E		
250 DMBC / 1 B		
1250 KTA 53 /32069 D		
Kilowatt Size	Model Ident Letters	Specification Letter Designates Major Changes
Voltage Code(s) or Model Ident Numbers		Specification Number: No. 1 is Standard; others designate Variations or Special Features

AC Generator Set

Model _____

kw

class of insulation

field amp max

generator model no.

voltage regulator model no.

ID no.

generator set serial no.

BS5000

kva

amps

field voltage max

pf

voltage

NEMA

INTRODUCTION

-cont-

PRODUCT SERIAL NUMBER IDENTIFICATION

A Serial number is assigned to all Models or Products and is located on the nameplate for that product. The current Serial Number System of identification is as follows:

Month of Manufacture: A = Jan, B = Feb, etc.	B	89	7	123456	Assigned Six Digit Serial No.
Year of Manufacture: 1989					Assembly Plant Code Number

SAFETY PRECAUTIONS

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This symbol warns of immediate hazards which will result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in personal injury or product or property damage.

PRODUCT SAFETY PRECAUTIONS:

⚠ WARNING

CONTACT WITH USED ENGINE OILS HAS BEEN IDENTIFIED BY A UNITED STATES FEDERAL AGENCY AND SOME USA STATE AGENCIES AS CAUSING CANCER or REPRODUCTIVE TOXICITY. WHEN CHECKING OR CHANGING ENGINE OILS TAKE ALL NECESSARY PRECAUTIONS NOT TO INGEST, BREATHE THE FUMES OR CONTACT THE USED OIL!

⚠ WARNING

CONTACT WITH ASBESTOS HAS BEEN IDENTIFIED BY A UNITED STATES FEDERAL AGENCY AND SOME USA STATE AGENCIES AS CAUSING CANCER or REPRODUCTIVE TOXICITY. WHEN HANDLING ENGINE GASKETS TAKE ALL NECESSARY PRECAUTIONS NOT TO INGEST, BREATHE OR CONTACT THE DUST FROM THE GASKETS! USE ADEQUATE VENTILATION AND WEAR PROTECTIVE GLOVES, MASKS AND CLOTHING!

⚠ WARNING

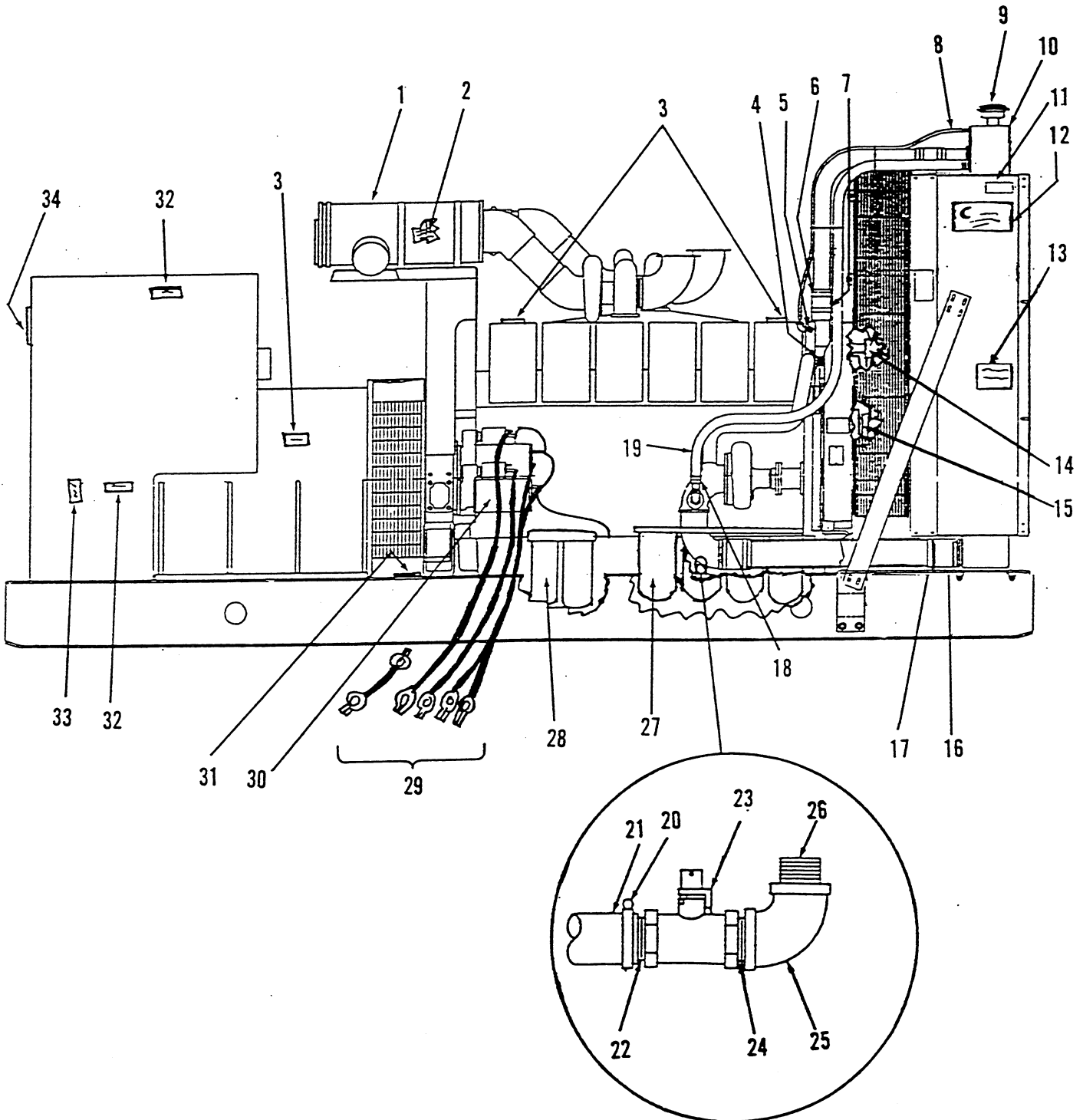
CONTACT WITH BENZENE and LEAD, FOUND IN GASOLINES, FUEL ADDITIVES AND SOLVENTS HAS BEEN IDENTIFIED BY A UNITED STATES FEDERAL AGENCY AND SOME USA STATE AGENCIES AS CAUSING CANCER or REPRODUCTIVE TOXICITY. WHEN CHECKING, DRAINING OR ADDING GASOLINE AND FUEL ADDITIVES, OR USING SOLVENTS TAKE ALL NECESSARY PRECAUTIONS NOT TO INGEST, BREATHE THE FUMES, OR CONTACT THE LIQUIDS. USE ADEQUATE VENTILATION AND WEAR PROTECTIVE GLOVES, MASKS AND CLOTHING!

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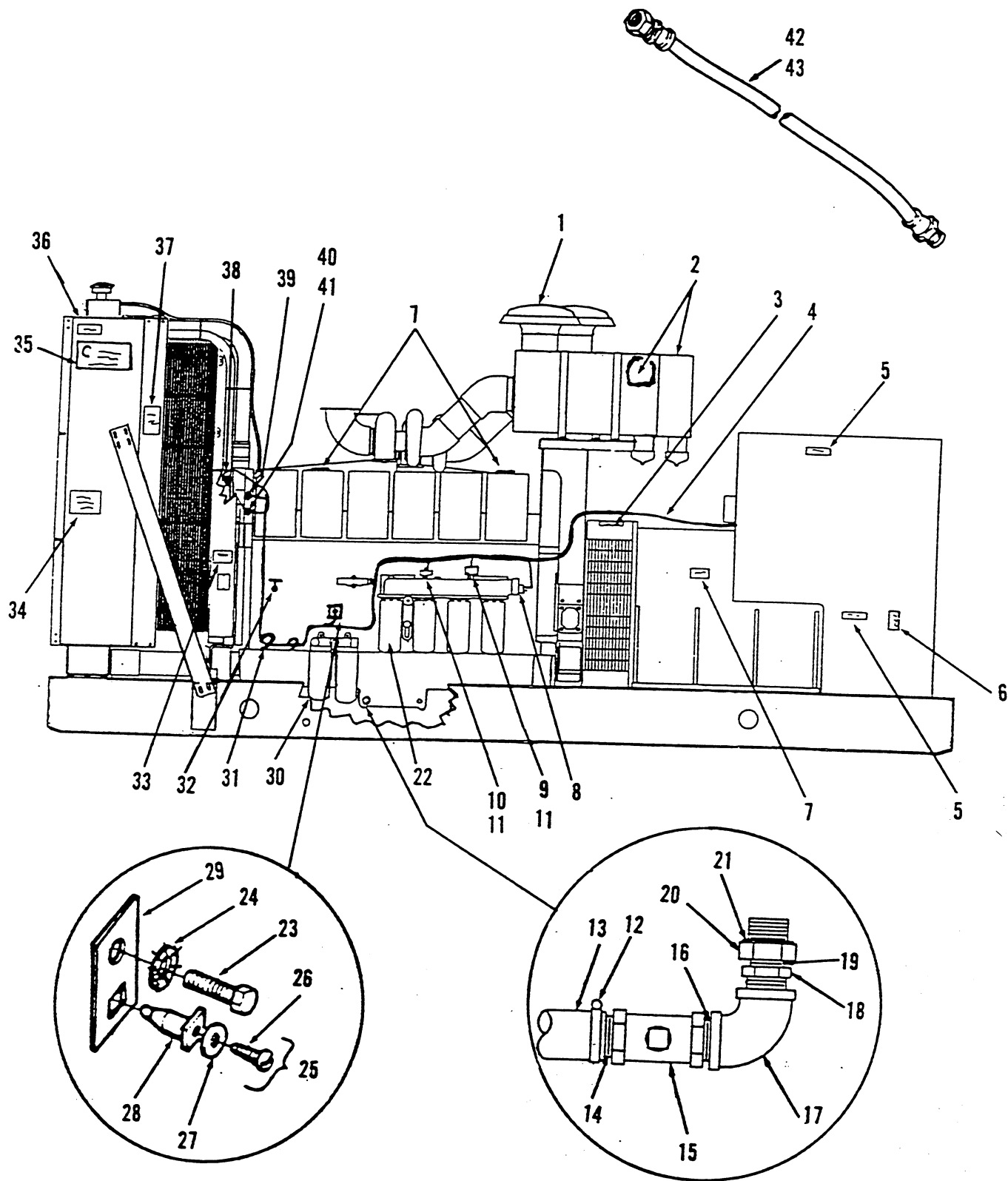
EXTERNAL COMPONENTS
LEFT SIDE



**EXTERNAL COMPONENTS
LEFT SIDE**

REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1	140-2463			2	Air Cleaner (Includes Element)
2	140-2464			2	Element - Air Cleaner
3	98-5822			3	Decal - Warning "DO NOT USE LIFTING POINT, ETC."
4	309-0436			2	Switch, Thermostatic - High Water Temperature (PRE-ALARM) (216°F) Attaching Part for Switch
	505-0117			2	Bushing, Reducer - Flush (1/2 NPT x 3/8 NPT) -----*
5	309-0437			1	Switch, Thermostatic - High Water Temperature (SHUTDOWN) (222°F) Attaching Parts for Switch
	505-0117			1	Bushing, Reducer - Flush (1/2 NPT x 3/8 NPT)
6	503-0868			8	Clamp, Hose - T-Bolt Type (3.5" NON)
7	503-1728			2	Hose, Radiator
8	501-0558			1	Line, Flexible - Bypass
9	130-2981			1	Cap, Radiator - 7#PSI
10	130-3615			1	Radiator (includes Cap)
11	98-6169			1	Decal - Caution "7 PSI HOT WATER SYSTEM"
12					Decal - Model Identification
	98-6108-03			2	ONAN GEN SET
	98-6111-03			2	CUMMINS GEN SET
	98-6139-03			2	CUMMINS ONAN GEN SET
13	98-4732			1	Decal - Caution
14	511-0161-04			1	Belt, Drive - Multi Groove
15					Alternator & Drive Components Group
	191-1391			1	Pulley, Alternator - Multi Groove (Use with 35 AMP Alternator)
	191-0688	70D44854B13	MO	1	Alternator - 24 VDC, 35 AMP (Less Pulley, Includes Voltage Regulator)
	191-1635	8RF3080F	MO	1	Regulator, Voltage - 24 VDC (Used on 35 AMP Alternator)
	511-0161-02			1	Belt, Drive - Multi Groove (Used with 35 AMP Alternator) -----*
	130-3254			1	Pulley, Alternator - Multi Groove (Use with 75 AMP Alternator)
	191-1926-02	70D44970S02	MO	1	Alternator - 24 VDC, 75 AMP (Less Pulley, Includes Voltage Regulator)
		BRG3032	MO	1	Regulator, Voltage - 24 VDC (used on 75 AMP Alternator)
	511-0161-02			2	Belt, Drive - 75 AMP Alternator -----*
16	503-0960			4	Clamp, Hose
17	503-1726			2	Hose, Radiator
18	503-1140			2	Clamp, Hose
19	503-1730			1	Hose, Rubber
					Coolant Drain Components Group
20	503-0183			1	Clamp, Hose
21	503-1731			AR	Hose, Bulk (Sold by the Foot) Two Feet Required
22	505-0324			1	Nipple, Pipe - Half (3/4 NPT x 2"LG)
23	504-0171			1	Valve, Shutoff - Brass (3/4 NPT)
24	505-0102			1	Nipple, Pipe - Close (3/4 NPT x 1-3/8"LG)
25	505-0132			1	Elbow, Pipe - 90° (3/4 NPT)
26	505-0102			1	Nipple, Pipe - Close (3/4 NPT x 1-3/8"LG) -----*
27					Filter, Water - W/Corrosion Inhibiting Chemical DCA4
	130-3537	3315166	CE	4	Service
	130-3541	3318318	CE	4	Pre-Charging Complete System
28	122-0526	3313283	CE	2	Filter, Oil - Bypass
29					Battery Cable Group
	416-0446			2	Cable, Battery - Jumper (12½"LG)
	416-0473			2	Cable, Battery - Jumper (27"LG)
	416-0964			2	Cable, Battery (35"LG)
	416-0639			2	Cable, Battery (60"LG)
	416-0680			3	Cable, Electrical - Jumper (10"LG) -----*
30		3010125		2	Starter - 24 VDC
31	98-2235			1	Decal - Ground
32	98-5347			2	Decal - Danger "HIGH VOLTAGE"
33	98-5759			1	Decal - Warning "HAZARDOUS VOLTAGE"
34					Decal - Model Identification
	98-6108-02			1	ONAN GEN SET
	98-6111-02			1	CUMMINS GEN SET
	98-6139-02			1	CUMMINS ONAN GEN SET

EXTERNAL COMPONENTS RIGHT SIDE



EXTERNAL COMPONENTS RIGHT SIDE

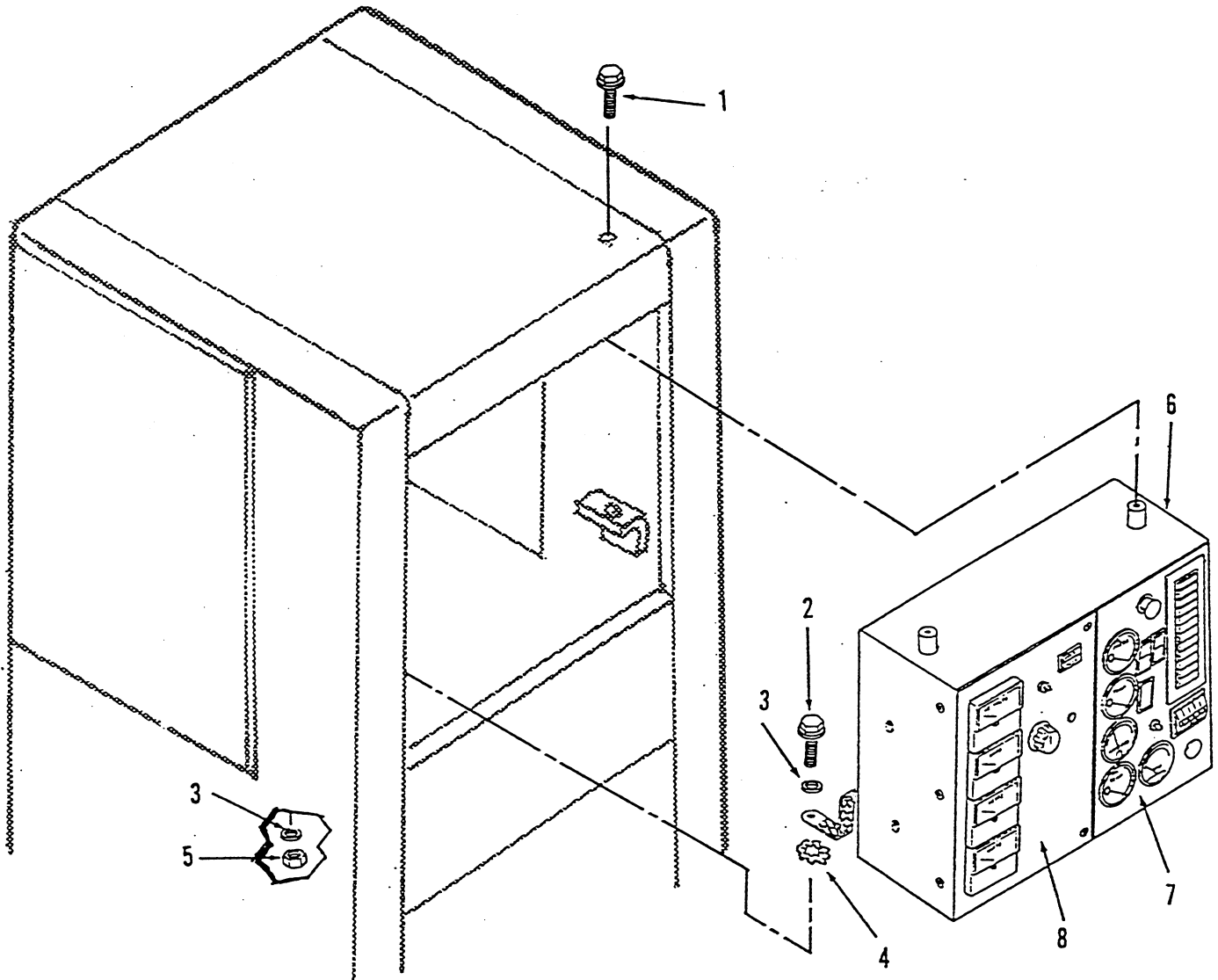
REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1	140-1545	3013238	CE	2	Hood, Air Inlet (Used on Heavy Duty Air Cleaner)
2					Heavy Duty Air Cleaner Group
	140-2301	3056713	CE	2	Air Cleaner - Heavy Duty (Includes Elements)
	140-2465	3060220	CE	2	Element, Air Cleaner - Primary
	140-2366	3060221	CE	2	Element, Air Cleaner - Safety
					-----*
3	98-5842			1	Decal - Warning "APPLY NO FORCE TO CEN FAN WHEN LIFTING, ETC"
4	338-2525			1	Harness, Wiring - Engine to Control (Includes Replaceable Items)
	323-1306			1	Housing, Connector - 8 Pin (Less Pins)
	323-1200			8	Pin, Contact
	323-1304			1	Housing, Connector - 6 Pin (Less Pins)
	323-1200			6	Pin, Contact
					-----*
5	98-5347			2	Decal - Danger "HIGH VOLTAGE"
6	98-5759			1	Decal - Warning "HAZARDOUS VOLTAGE"
7	98-5822			3	Decal - Warning "DO NOT USE LIFTING POINT, ETC."
8	309-0561			1	Switch, Pressure - Oil, 14# PSI (SHUTDOWN) With Dual Terminals
9	193-0244			1	Sender, Pressure - Oil
10	309-0272			1	Switch, Pressure - Oil, 20# PSI (PRE-ALARM)
11	505-0007			2	Bushing, Reducer (1/4 NPT x 1/2 NPT)
					Oil Drain Group
12	503-0183			1	Clamp, Hose
13	503-1731		AR		Hose, Bulk (Sold by the Foot Three Feet Required)
14	505-0324			1	Nipple, Pipe - Half (3/4 NPT x 2"LG)
15	504-0171			1	Valve, Shutoff - Brass (3/4 NPT)
16	505-0102			1	Nipple, Pipe - Close (3/4 NPT x 1-3/8"LG)
17	505-0132			1	Elbow, Pipe - 90° (3/4 NPT)
18	505-0021			1	Bushing, Reducer (3/4 NPT x 1/2 NPT)
19	505-0100			1	Nipple, Pipe - Close (1/2 NPT x 1-1/8"LG)
20	102-1335			1	Plug, Drain (Modified)
21	508-0292			1	Washer, Sealing
					-----*
22	122-0757	3310169	CE	5	Filter, Oil
23	800-0270			1	Screw, Cap - Hex Head (3/8-24 x 5/8")
24	856-0010			2	Washer, Lock - EIT (3/8")
25	332-1292			1	Terminal Assembly (Includes Replaceable Items 26 thru 29)
26	809-0035			1	Screw, Tapping - Round Head (#8 x 3/4")
27	508-0015			1	Washer, Insulating
28	870-0196			1	Nut, Insulated
29	332-1281			1	Board, Terminal
30	149-2232	299202	CE	2	Filter, Fuel
31	332-2634			6	Clamp, J
32	504-0028			2	Cock, Drain
33	98-4798			1	Decal - Warning "Caution - Moving Parts"
34	98-4732			1	Decal - Caution "AUTO CONTROL-SEN SET MAY START WITHOUT WARNING"
35					Decal - Model Identification
	98-6108-03			1	ONAN GEN SET
	98-6111-03			1	CUMMINS GEN SET
	98-6139-03			1	CUMMINS ONAN GEN SET
					-----*
36	98-6169			1	Decal - Caution "7# PSI HOT WATER SYSTEM"
37	98-5393			2	Decal - Warning "ROTATING FAN - STAY CLEAR"
38	309-0269			1	Switch, Thermostatic - Low Engine Temperature
					Attaching Parts for Switch
	800-0062			1	Screw, Cap - Hex Head (3/8-16 x 4")
	850-0050			1	Washer, Lock - Spring (3/8")
39	193-0375			1	Sender, Water Temperature
40	309-0437			1	Switch, Thermostatic - High Water Temperature (SHUTDOWN) (222°F)
41	505-0117			5	Bushing, Reducer - Flush (1/2 NPT x 3/8 NPT)
42	501-0520			1	Line, Fuel - Flexible "FUEL OUT" (37" 7/8-14 Female Swivel x 3/4-14 Male x 50"LG)
43	501-0524			1	Line, Fuel - Flexible "FUEL IN" (37" 1 5/16-12 Female Swivel x 1-11.5 Male x 50"LG)

NOTES

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GENERATOR SET CONTROL
Installation Of

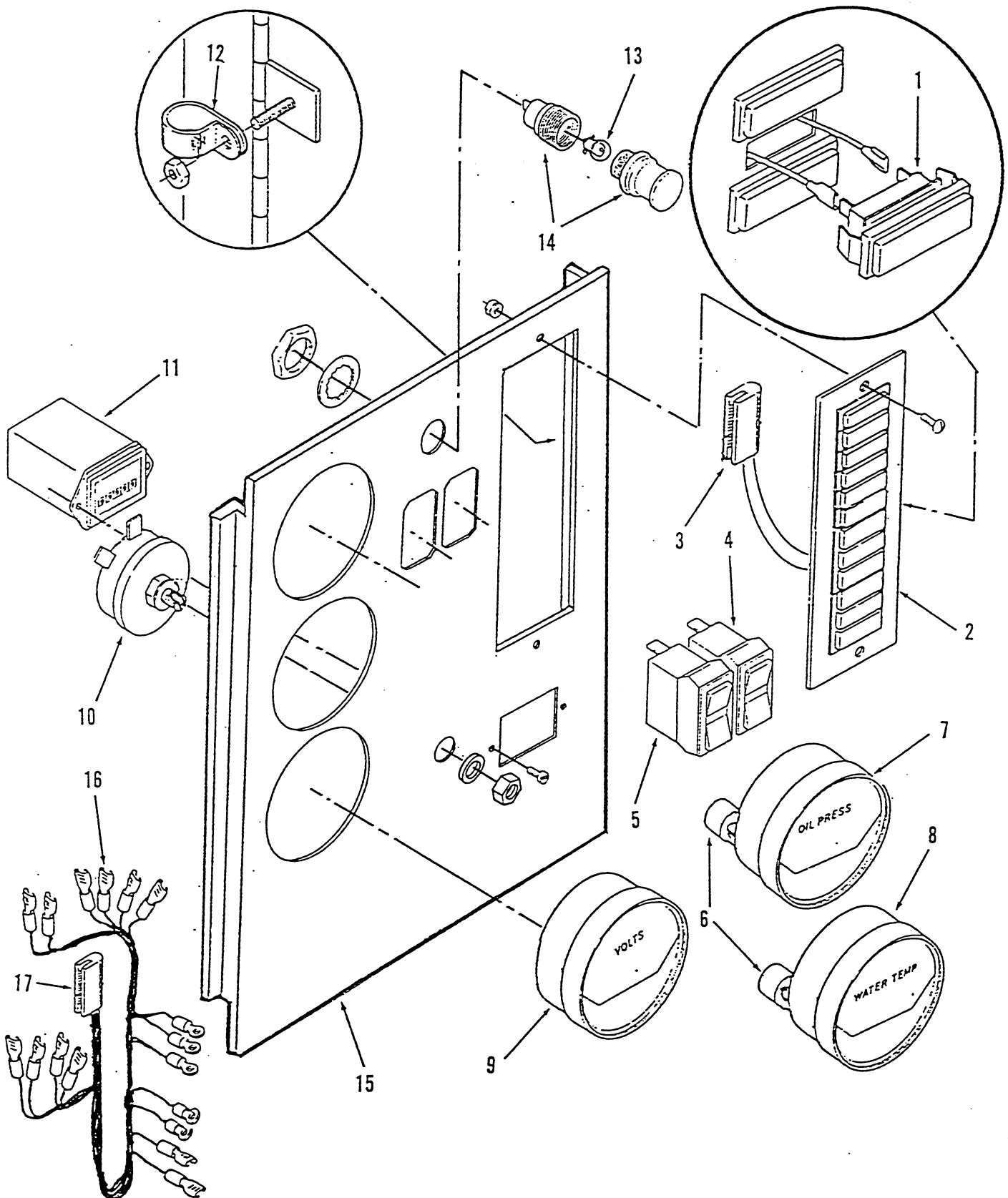


GENERATOR SET CONTROL Installation Of

REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1	821-0014			1	Screw, Self-Locking - Hex Washer Head (5/16-18 x 1/2")
2	821-0018			1	Screw, Self-Locking - Hex Washer Head (1/4-20 x 5/8")
3	526-0018			2	Washer, Flat (1/4")
4	856-0006			1	Washer, Lock - EIT (1/4")
5	870-0212			1	Nut, Self-Locking - Hex (1/4-20)
6	NOTE 1			REF	Control, Generator Set (See Control Section Illustrations and Parts Lists For Replaceable Components)
7	NOTE 1			REF	Engine Control Panel (See Separate Illustration for Components)
8	NOTE 1			REF	Generator Control Panel (See Separate Illustration for Components)

NOTE 1. Not Stocked For Sale at the Central Parts Distribution Center.

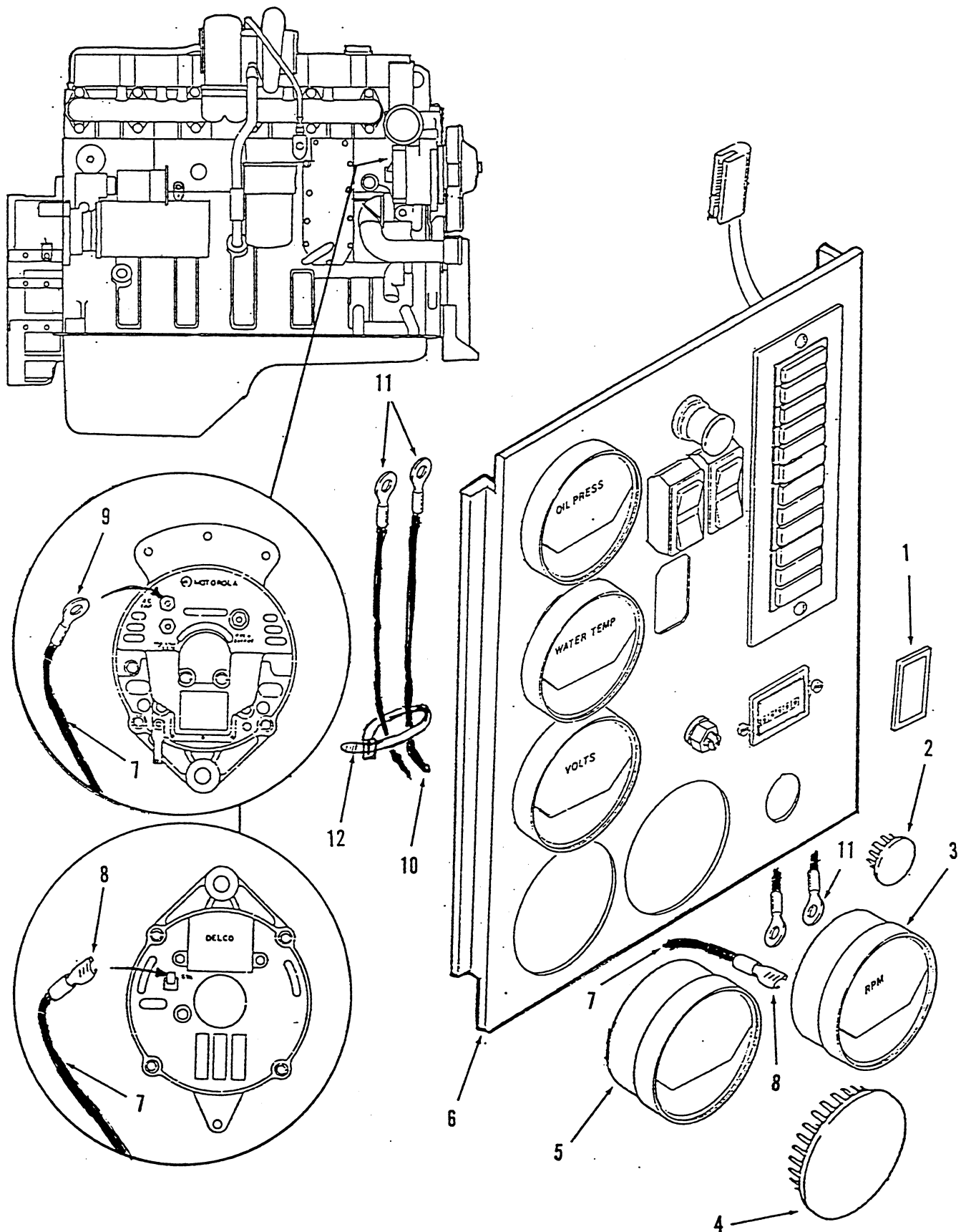
ENGINE CONTROL PANEL COMPONENTS



ENGINE CONTROL PANEL COMPONENTS

REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1	322-0369-03			1	Lamp, Incandescent - 1/3 Watt, 28 Volts DC
2					Module, Indicator - Fault (A12) (Includes Connector Housing)
	322-0359-02			1	7 Light Module
	322-0360-02			1	12 Light Module
					Attaching Parts for Fault Module
	815-0385			2	Screw, Machine - Round Head (#6 - 32 x 1/2")
	870-0183			2	Nut, Self-Locking - ET Hex Washer Head (#6 - 32)
3	323-1310			1	Housing, Conn - 13 Pin (J3) (Less Contact Pins)
	323-1302			13	Contact, Pin
4	308-0785			1	Switch, Push - Reset/Panel Lamp (S11)
5	308-0784			1	Switch, Push - Run/Stop/Remote (S12)
6	193-0250			2	Resistor, Gauge (R12)
7	193-0352			1	Gauge, Pressure - Oil, 12 VDC (M11)
8	193-0351			1	Gauge, Temp - Water, 12 VDC (M12)
9	302-1642			1	Voltmeter, DC (M13)
10	151-0402			1	Potentiometer - Speed Control (R11)
11	302-0885			1	Meter, Running Time (M14)
					Attaching Parts for Meter
	815-0385			2	Screw, Machine - Round Head (#6 - 32 x 1/2")
	870-0183			2	Nut, Self-Locking - ET Hex Washer Head (#6 - 32)
12	332-0052			1	Clamp, Loop
					Attaching Parts for Clamp
	870-0131			2	Nut, Self-Locking - with ET Lockwasher (#10 - 32)
13	322-0017			1	Lamp, Incandescent - 28 VDC (DS11)
14	322-0361			1	Holder, Lamp
15	301-9055-02			1	Panel, Control - 3 Gauge Holes
16	338-2277			1	Harness Assembly, Wiring - DC (Includes Connector Housing)
17	323-1308			1	Housing, Conn - 12 Pin (J4) (Less Contact Pins)
	323-1302			12	Contact, Pin
18	98-5219			1	Decal - Panel Front (Not Illustrated)
19	98-5220			1	Decal - Panel Rear (Not Illustrated)

TACHOMETER Installation Of



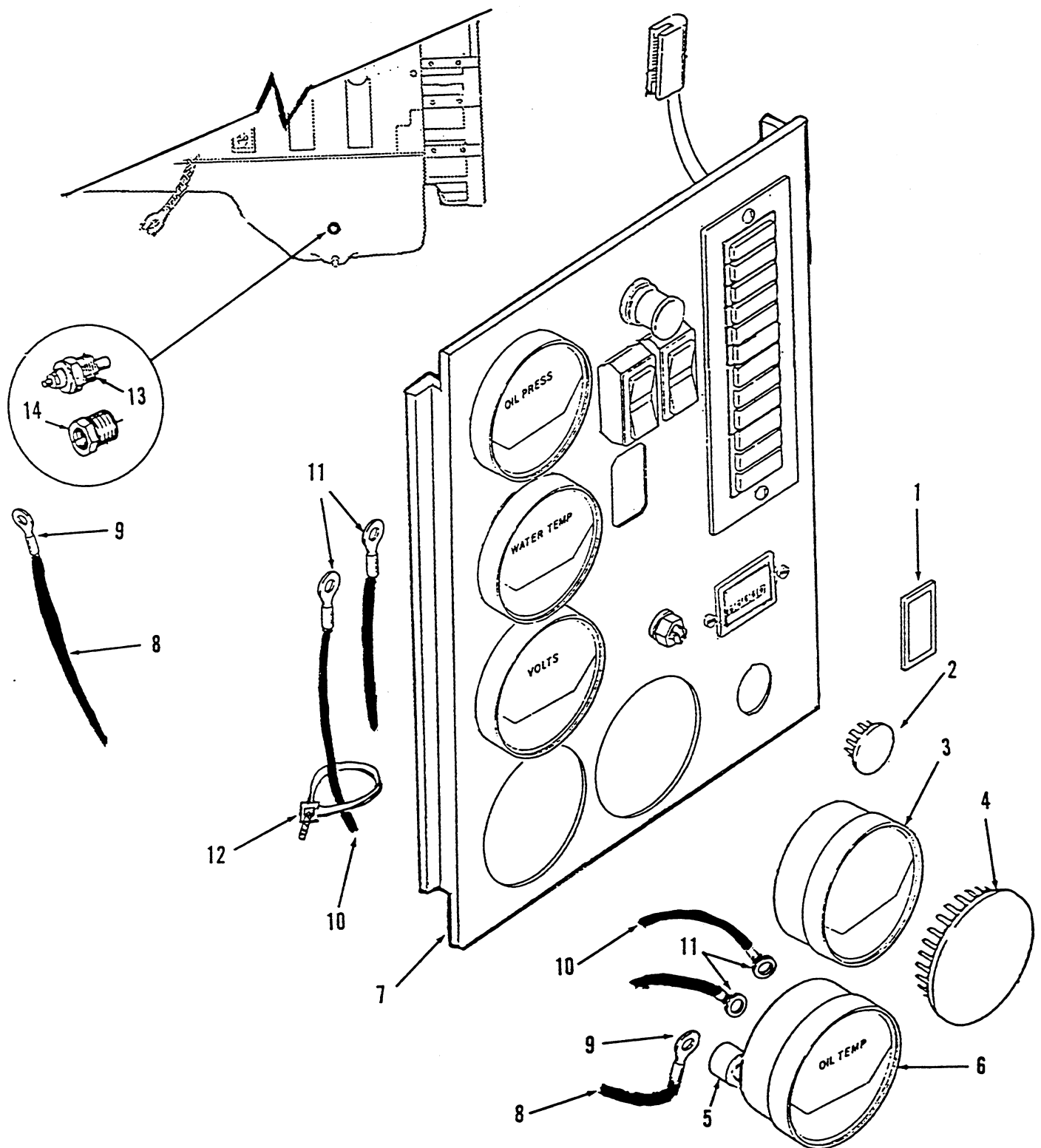
TACHOMETER Installation Of

REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1	301-6257			1	Cover - Blank Switch
2	517-0137			1	Plug, Dot Button
3	302-1873-01			1	Tachometer (M16) [NOTE 1]
4	517-0131			1	Plug, Dot Button (Option in lieu of Blank Meter)
5	302-1723			1	Meter, Blank (Option in lieu of Dot Button Plug)
6	301-9055-01			1	Panel, Control
7	NOTE 2			AR	Wire, Electrical - 16 AWG, Insulated
8	332-1993			2	Terminal, Faston, .25 - 14-16 AWG Gauge Wire
9	332-0807			1	Terminal, Wire - Ring #10, 16-18 AWG Gauge Wire
10	NOTE 2			AR	Wire, Electrical - 20 AWG, Insulated
11	332-0147			4	Terminal, Wire - Ring #10, 18-20 AWG Gauge Wire
12	332-1445			3	Tie, Cable
18	98-5219			1	Decal - Panel Front (Not Illustrated)
19	98-5220			1	Decal - Panel Rear (Not Illustrated)

NOTES:

1. Tachometer comes with a 12 volt bulb and socket which must be discarded as meter illumination is provide by a front panel light. Caution, correct hookup per instruction sheet is necessary as the tachometer is used on both 12 VDC and 24 VDC electrical systems.
2. Electrical Wire Not Stocked for Sale in Central Distribution Parts Center; Obtain locally as needed.

OIL TEMPERATURE GAUGE Installation Of



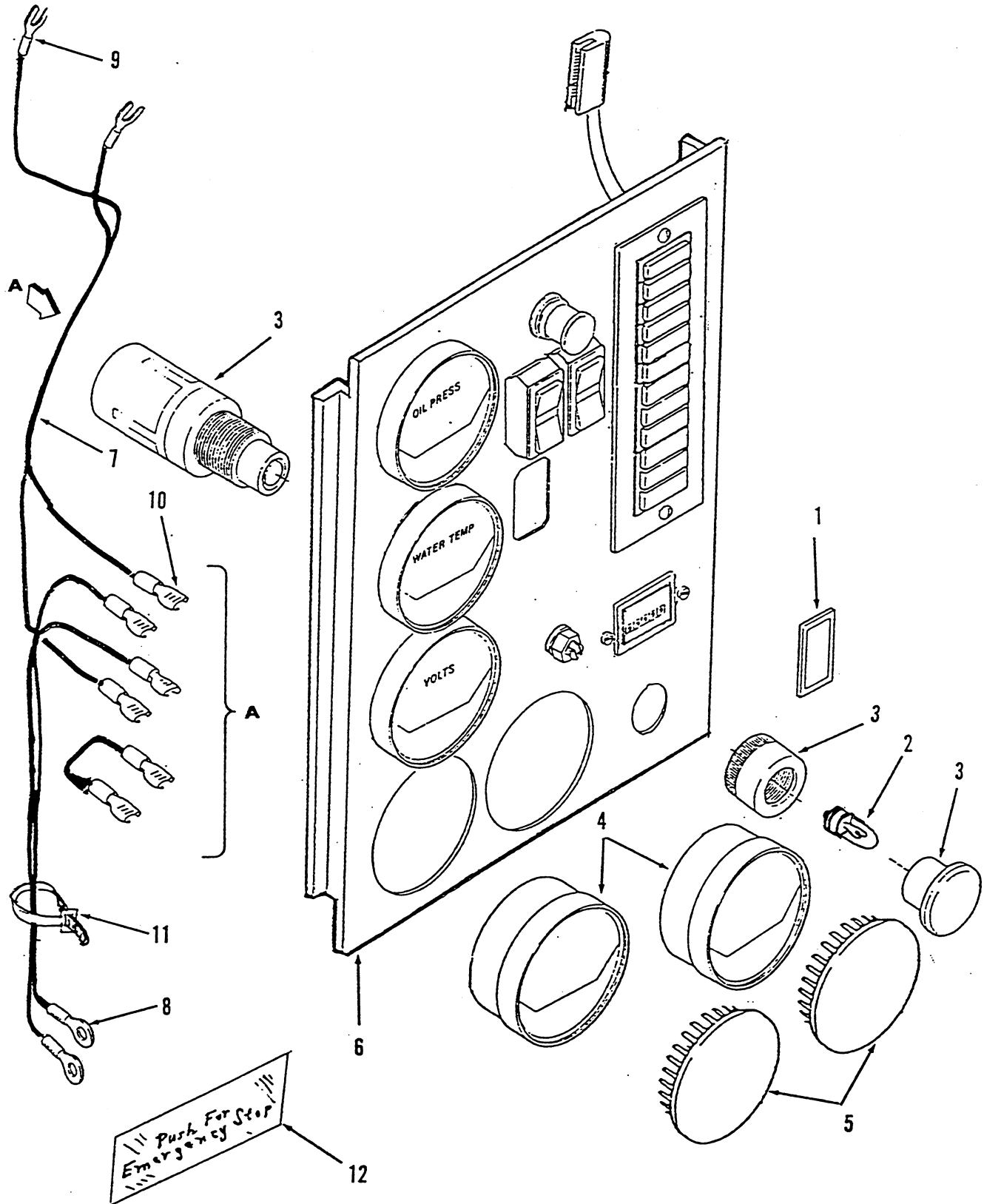
OIL TEMPERATURE GAUGE Installation Of

REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1	301-6257			1	Cover - Blank Switch
2	517-0137			1	Plug, Dot Button
3	302-1723			1	Meter, Blank (Option in lieu of Dot Button Plug)
4	517-0131			1	Plug, Dot Button (Option in lieu of Blank Meter)
5	193-0250			1	Resistor, Gauge
6	193-0330			1	Gauge - Oil Temperature
7	301-9055-01			1	Panel, Control
8	NOTE 1		AR		Wire, Electrical - 16 AWG, Insulated
9	332-0807			2	Terminal, Wire - Ring #10, 16-18 AWG Gauge Wire
10	NOTE 1		AR		Wire, Electrical - 20 AWG, Insulated
11	332-0147			4	Terminal, Wire - Ring #10, 18-20 AWG Gauge Wire
12	332-1445			2	Tie, Cable
13	193-0353			1	Sender, Temperature - Oil (E4)
14	505-0151			1	Bushing, Reducer (1/2 NPTF x 1/8 NPTF)
18	98-5219			1	Decal - Panel Front (Not Illustrated)
19	98-5220			1	Decal - Panel Rear (Not Illustrated)

NOTES:

1. Electrical Wire Not Stocked for Sale in Central Distribution Parts Center; Obtain locally as needed.

EMERGENCY STOP SWITCH Installation Of



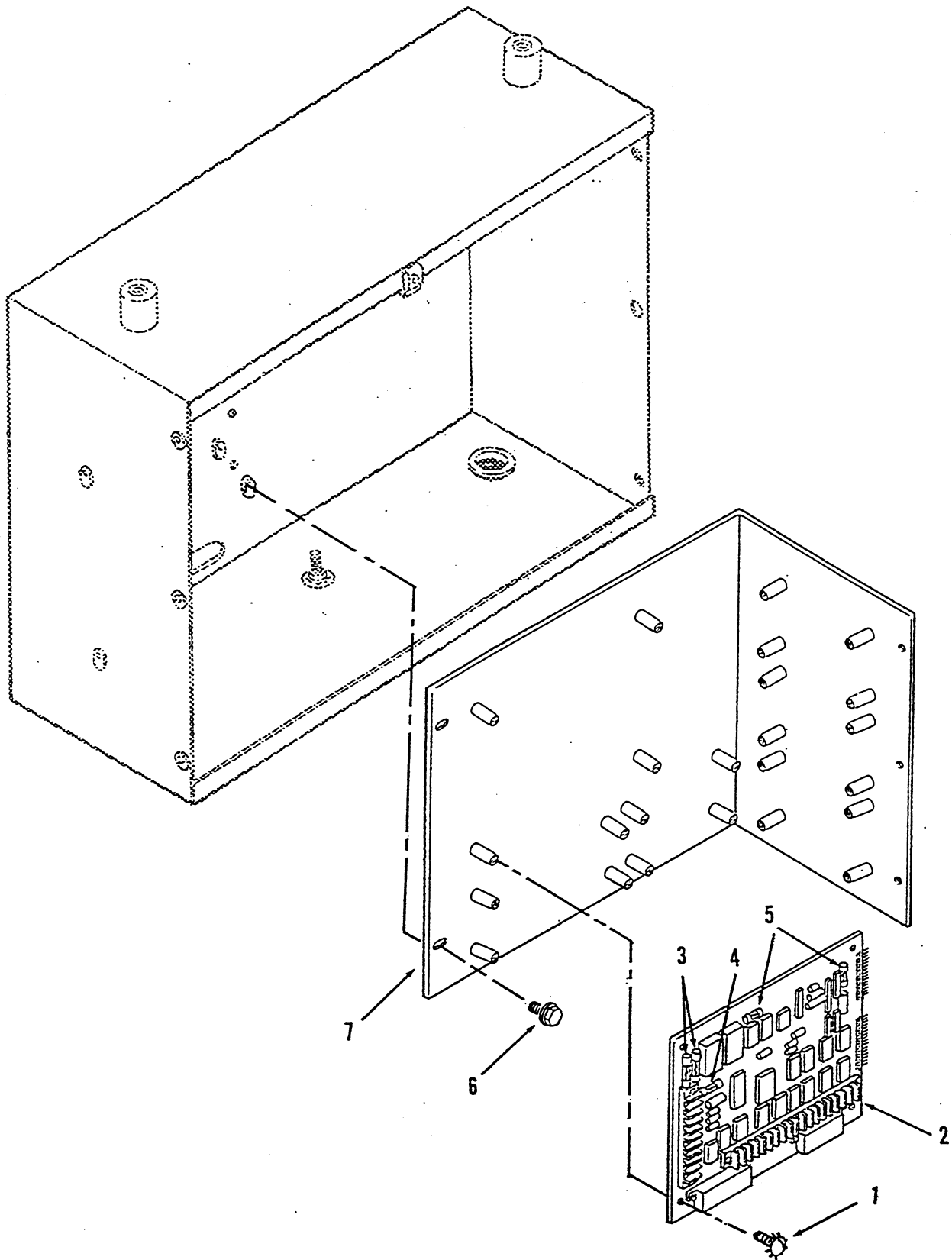
EMERGENCY STOP SWITCH **Installation Of**

REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1	301-6257			1	Cover - Blank Switch
2	322-0223			1	Lamp, Incandescent - 28 VDC, MSCP .34
3	308-0853			1	Switch, Push (Includes replaceable bulb)
4	302-1723			2	Meter, Blank (Option in lieu of Dot Button Plug)
5	517-0131			2	Plug, Dot Button (Option in lieu of Blank Meter)
6	301-9055-01			1	Panel, Control
7	NOTE 1			AR	Wire, Electrical - 20 AWG, Insulated
8	332-0804			2	Terminal, Wire - Ring .25, 18-20 AWG Gauge Wire
9	332-1673			2	Terminal, Wire - Spade, #6, 18-20 AWG Gauge Wire
10	332-1477			6	Terminal, Wire - Faston, .25, 18-20 AWG Gauge Wire
11	332-1445			4	Tie, Cable
12	98-5662			1	Decal "Push For Emergency Stop"
18	98-5219			1	Decal - Panel Front (Not Illustrated)
19	98-5220			1	Decal - Panel Rear (Not Illustrated)

NOTES:

1. Electrical Wire Not Stocked for Sale in Central Distribution Parts Center; Obtain locally as needed.

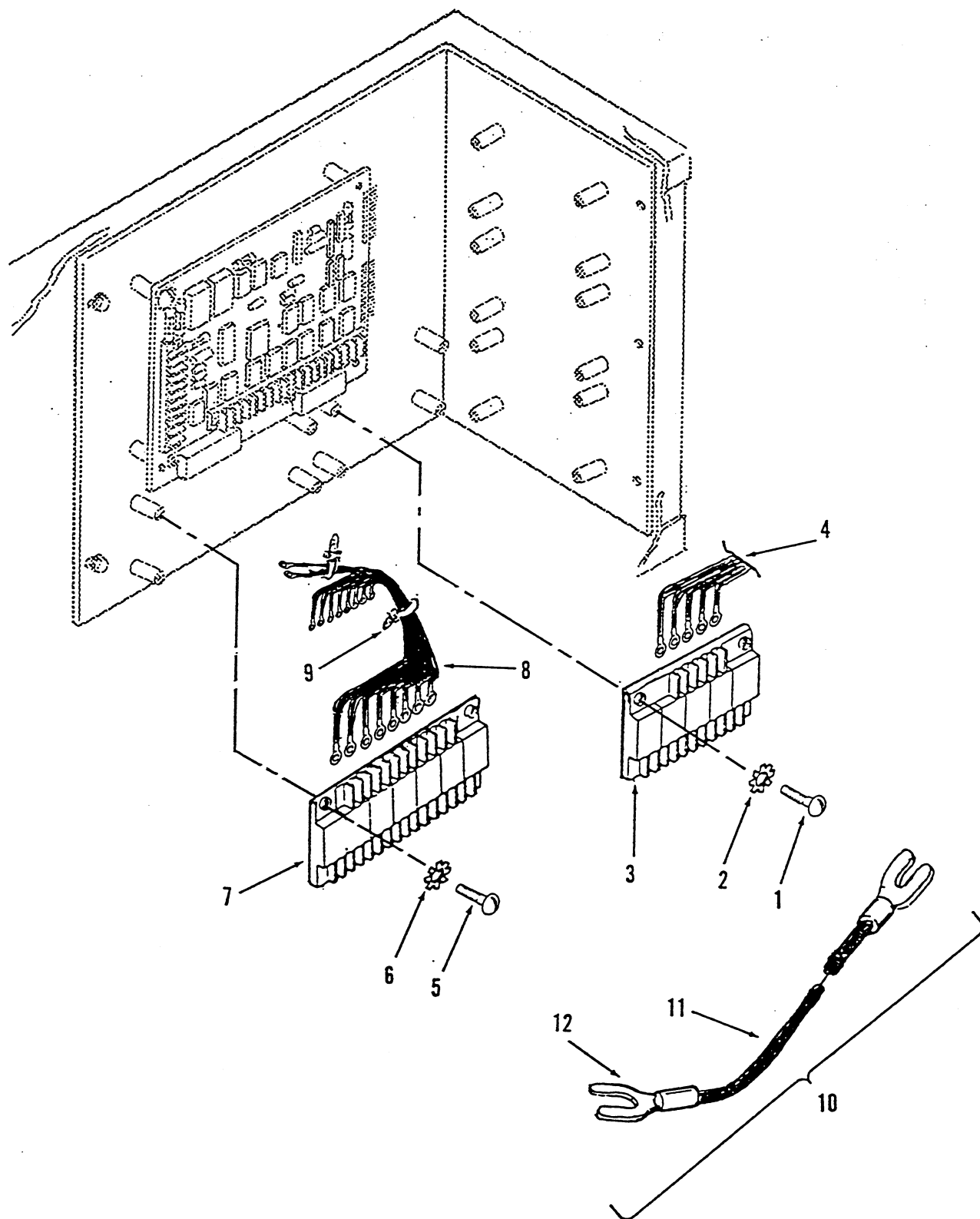
ENGINE MONITOR BOARD
Installation Of



ENGINE MONITOR BOARD Installation Of

REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1	815-0544			4	Screw, Machine - Round Head With IT Lock Washer (#6-32 x 1/2")
2					Board - Engine Monitor (A11) (Includes Fuses)
	300-2810			1	24 VDC, 7 Light
	300-2812			1	24 VDC, 12 Light
3	321-0270			2	Fuse, Cartridge - 20 Amp (F1, F2)
4	321-0231			1	Fuse, Cartridge - 15 Amp (F3)
5	321-0094			2	Fuse, Cartridge - 5 Amp (F4, F5)
6	821-0004			4	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")
7	301-8851			1	Bracket, Mounting

ALARM RELAY MODULES Installation Of



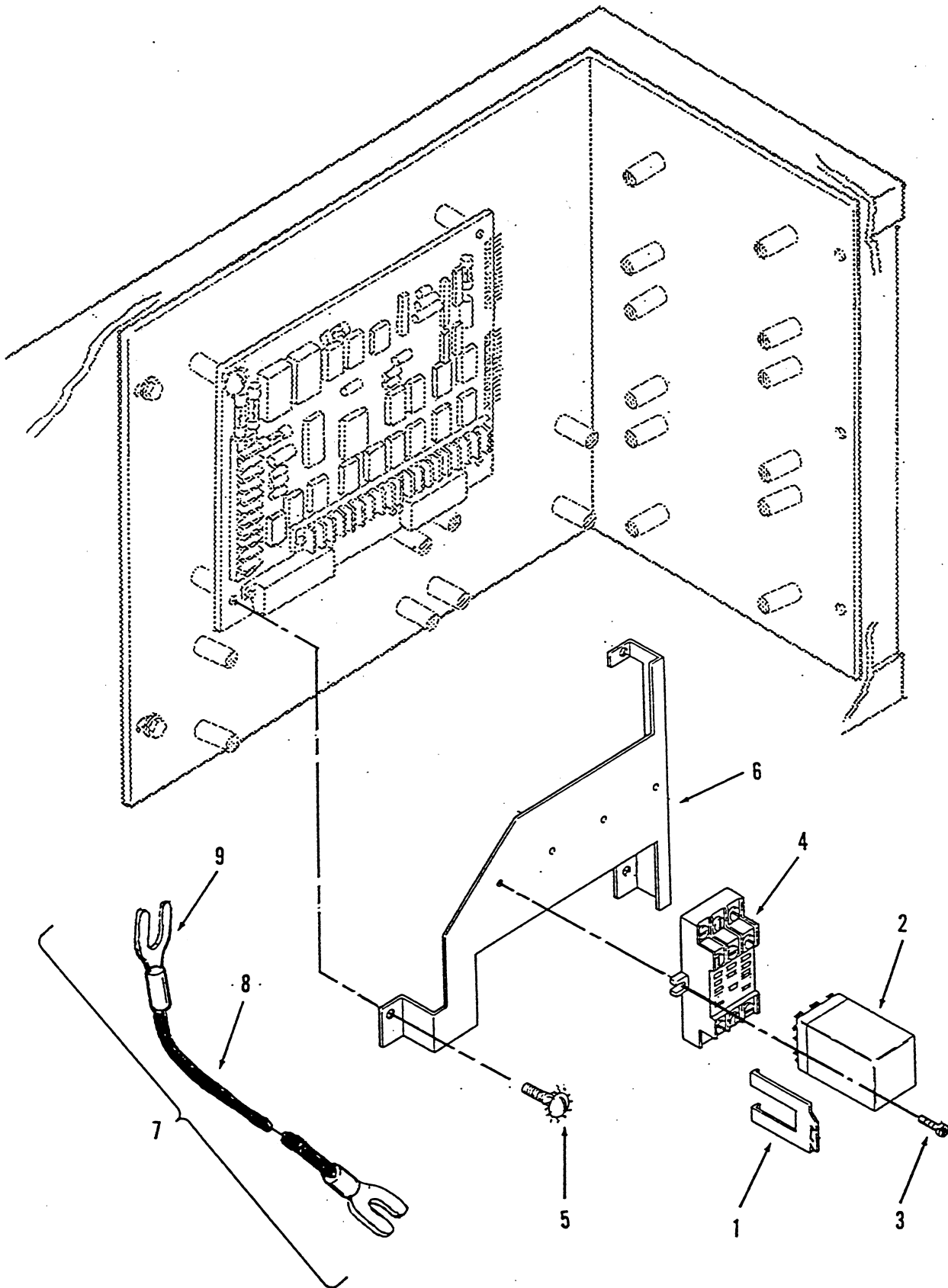
ALARM RELAY MODULES **Installation Of**

REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1	812-0063			4	Screw, Machine - Round Head (#6-32 x 1/2)
2	853-0003			4	Washer, Lock - External Tooth (#6)
3	300-2856			1	Module, Alarm Relay - 24 VDC, A14 (5 Relays)
4	338-1836			1	Harness, Wiring (A14 to A11)
5	812-0063			4	Screw, Machine - Round Head (#6-32 x 1/2)
6	853-0003			4	Washer, Lock - External Tooth (#6)
7	300-2863			1	Module, Alarm Relay - 24 VDC, A13 (7 Relays)
8	338-1835			1	Harness, Wiring (A13 to A11)
9	332-1445			4	Tie, Cable
10	NOTE 1			1	Lead, Electrical (A13 to A14)
11	NOTE 2			AR	Wire, Electrical - 20 AWG, Insulated
12	332-1673			2	Terminal, Wire - Forked, 18-20 Gauge

NOTES:

1. Electrical Leads Not Stocked for Sale in Central Parts Distribution Center.
2. Electrical Wire Not Stocked for Sale in Central Distribution Parts Center; Obtain locally as needed.

RUN RELAYS
Installation Of



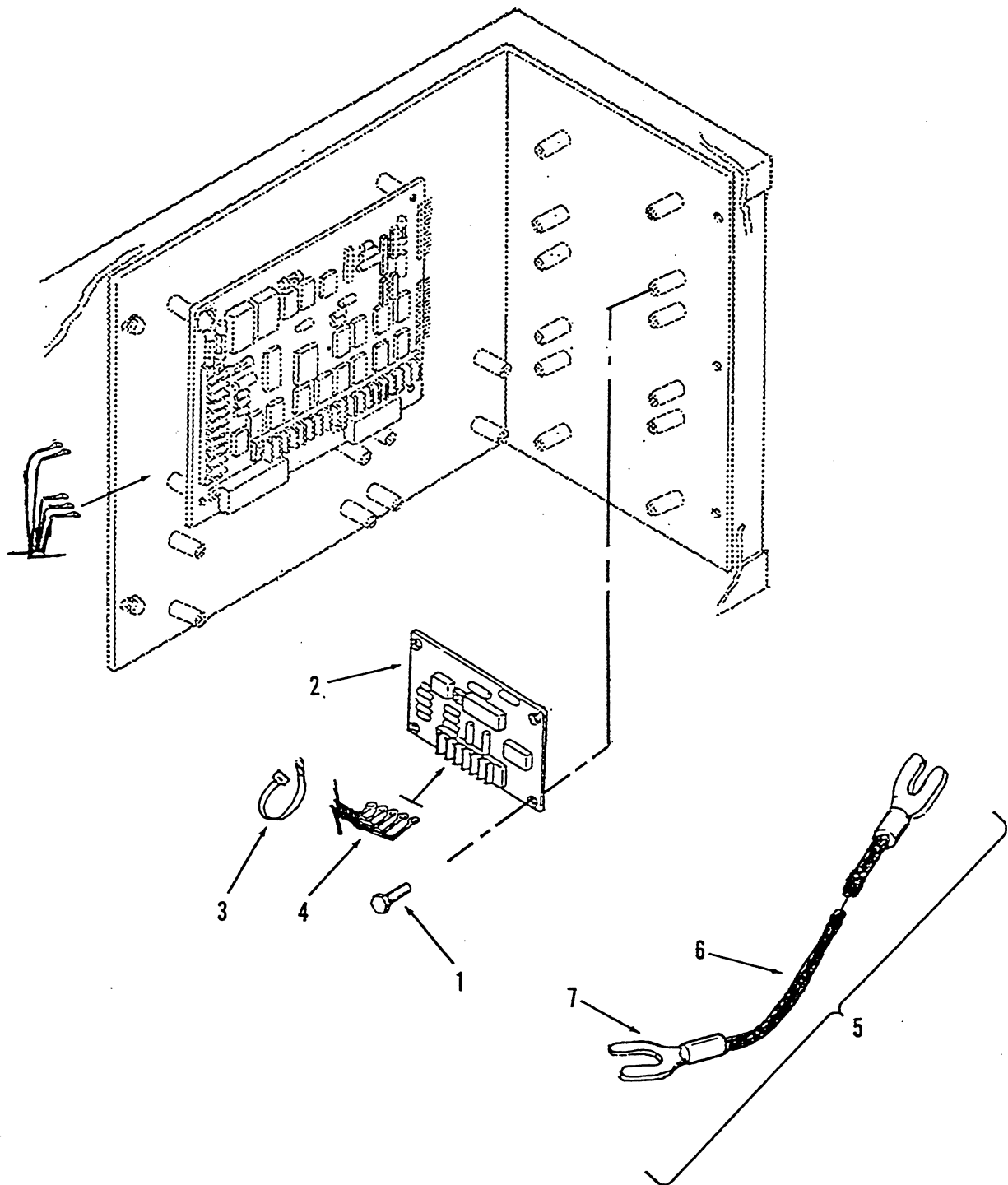
RUN RELAYS Installation Of

REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1	307-1987			6	Clip, Relay
2	307-1056			3	Relay, 24 VDC
3	815-0388			6	Screw, Machine - Pan Head, Cross-Recessed Drive (#6-32 x 1/2")
4	323-0804			3	Socket, Relay
5	815-0544			3	Screw, Machine - Round Head with IT Lock Washer (#6-32 x 1/2")
6	319-0447			1	Bracket, Mounting - Relay
7	NOTE 1			REF	Lead(s), Electrical
8	NOTE 2			AR	Wire, Electrical - 20 AWG, Insulated
9	332-1673			AR	Terminal, Wire - Forked, 18-20 Gauge

NOTES:

1. Electrical Leads Not Stocked for Sale in Central Parts Distribution Center.
2. Electrical Wire Not Stocked for Sale in Central Distribution Parts Center; Obtain locally as needed

TIME DELAY START/STOP MODULE
Installation Of



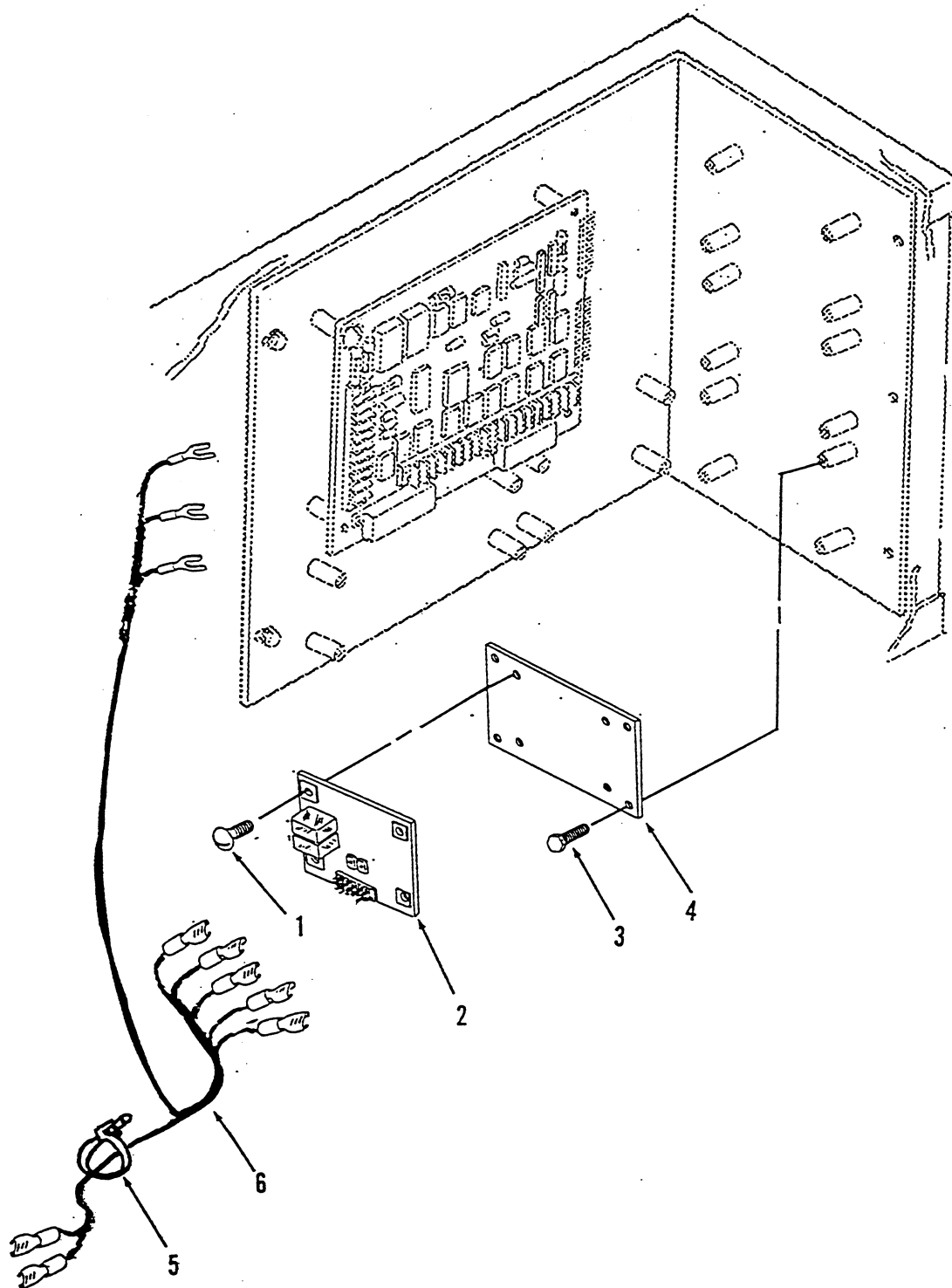
TIME DELAY START/STOP MODULE Installation Of

REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1	815-0544			4	Screw, Cap - Hex Head with ET Lockwasher (#6-32 x 1/2)
2	300-2899			1	Module, Time Delay Start/Stop - 24 VDC, A15 (5 Relays)
3	332-1445			3	Tie, Cable
4	338-1904			1	Harness, Wiring (A15 to A11)
5	NOTE 1			1	Lead, Electrical (A15 to A11)
6	NOTE 2		AR		Wire, Electrical - 20 AWG, Insulated
7	332-1673			2	Terminal, Wire - Forked, 18-20 Gauge

NOTES:

1. Electrical Leads Not Stocked for Sale in Central Parts Distribution Center.
2. Electrical Wire Not Stocked for Sale in Central Distribution Parts Center; Obtain locally as needed.

ELECTRONIC OVERSPEED MODULE
Installation Of



ELECTRONIC OVERSPEED MODULE **Installation Of**

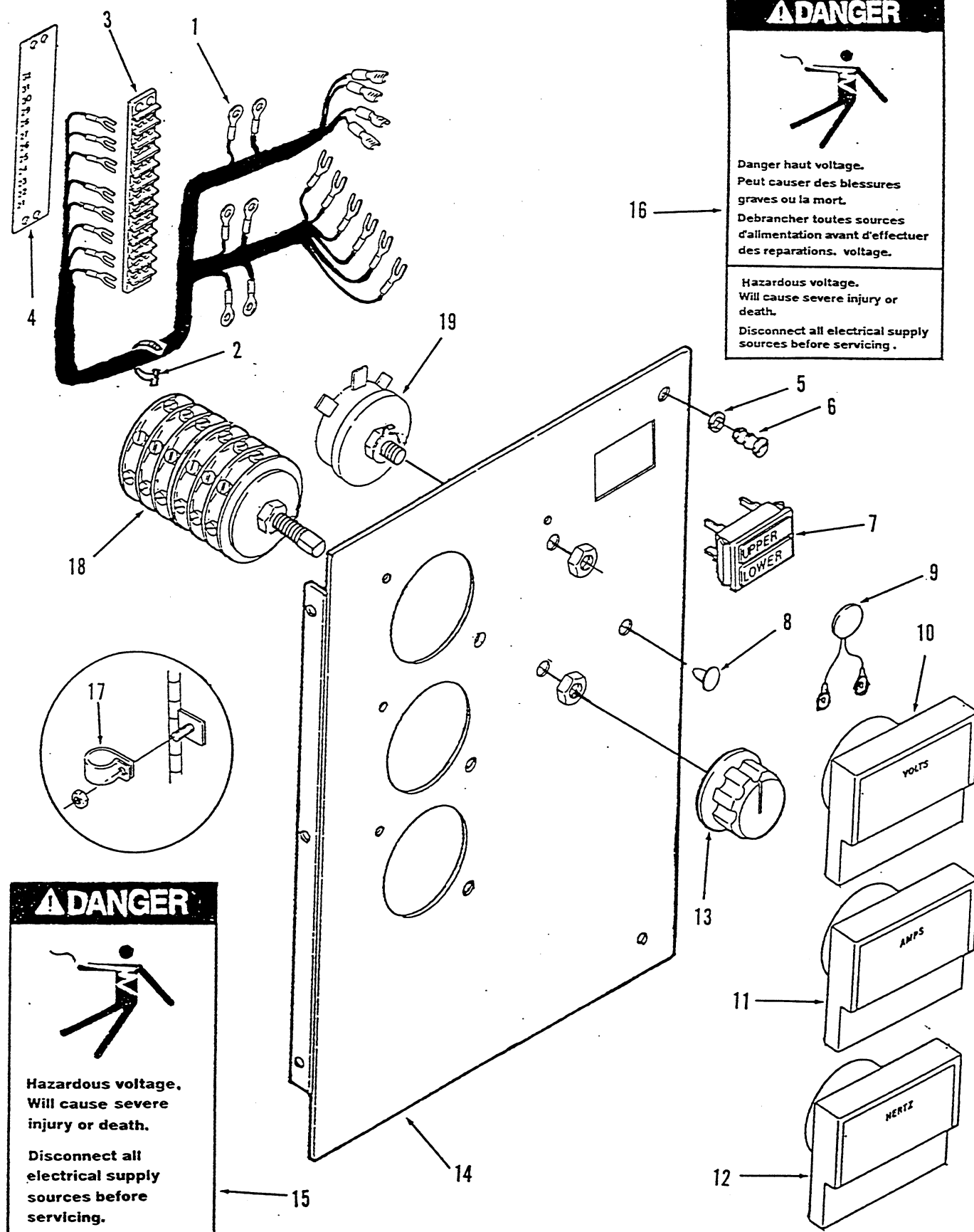
REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1	812-0084			4	Screw, Machine - Round Head (#8-32 x 1/2")
2	305-0818-02	E000-21002	NE		Module, Overspeed - 24 VDC (Frequency Detection Module)
3	815-0544			4	Screw, Cap - Hex Head with ET Lockwasher (#6-32 x 1/2)
4	319-0754			1	Plate, Mounting - Module
5	332-1445			10	Tie, Cable
6	338-2529			1	Harness, Wiring (A16 to A11 and AUX-P2,P3)

! DANGER



Danger haut voltage.
Peut causer des blessures graves ou la mort.
Debrancher toutes sources d'alimentation avant d'effectuer des reparations. voltage.

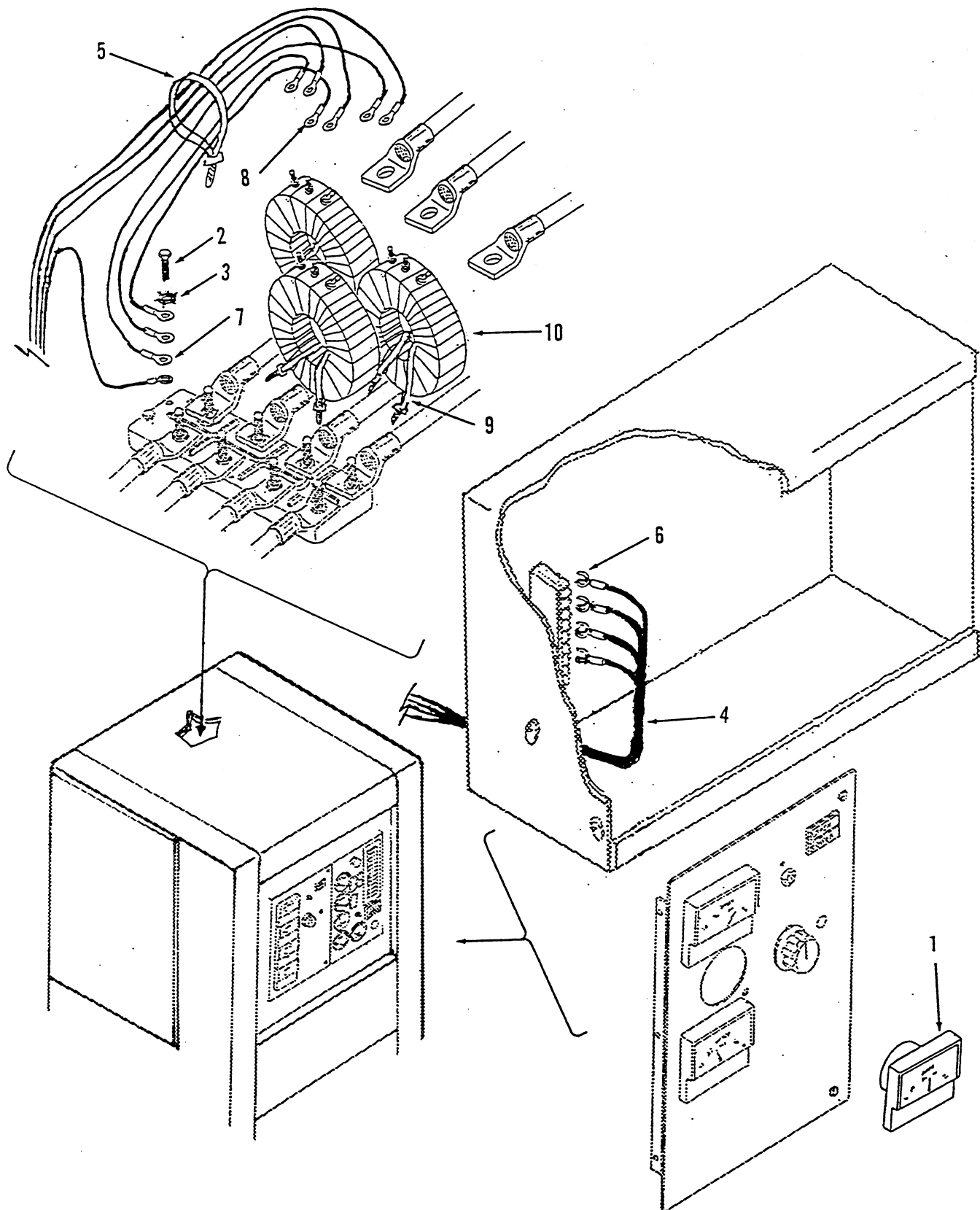
Hazardous voltage.
Will cause severe injury or death.
Disconnect all electrical supply sources before servicing.



GENERATOR CONTROL PANEL COMPONENTS

REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1	338-2278			1	Harness, Wiring - AC (Includes Terminal Block & Cable Ties) [Used only with meters] Attaching Parts for AC Wiring Harness
	812-0065			2	Screw, Machine - Round Head (#6-32 x 5/8")
2	332-1445			44	Tie, Cable (Part of Wiring Harness)
3	332-0607			1	Block, Terminal (TB1)
4	332-2723			1	Strip, Marker
5	406-0334			2	Clip, Retaining - Turnbutton Fastener
6	406-0333			2	Stud, Fastener - Turnbutton
7	322-0363			1	Light, Indicator - Dual (DS21, DS22)
8	517-0131			1	Plug, Dot Button
9	355-0093			1	Capacitor (Used accross Voltmeter Terminals on some Sets)
10					Voltmeter (M21)
	302-1148			1	Dual Scale 0-300/0-600V
	302-1753			1	Single Scale 0-750V
11			REF		Ammeter (M22) See Current Transformer & Ammeter Installation Figure for Parts)
12	302-1720			1	Meter, Frequency (M23)
13	303-0032			1	Knob
14					Panel, Control (Blank - No Decals)
	301-9054-02			1	3 Meter Holes
	301-9054-03			1	No Meter Holes
					Attaching Parts Panel to Control Box
	821-0004			3	Screw, Self-Locking-Hex Washer Head (#10-32 x 5/16")
15	98-5387			2	Decal - Warning (English) Located on Panel Front & Rear
16	98-5724			2	Decal - Warning (French/English)
17	332-0052			1	Clamp, Loop
					Attaching Parts for Loop Clamp
	870-0131			1	Nut, Self-Locking - with ET Lockwasher (#10-32)
18	308-0882			1	Switch, Rotary (S21)
19			REF		Potentiometer (R21) See Voltage Regulator Installation Figure for Parts)
20					Decals (Not Illustrated)
	98-5316			1	Decal - Panel Front Markings (Control Without Meters)
	98-5298			1	Decal - Panel Front Markings (Control With Meters)
	98-5299			1	Decal - Panel Rear Markings (All Control Panels)

AMMETER & CURRENT TRANSFORMER
INSTALLATION OF

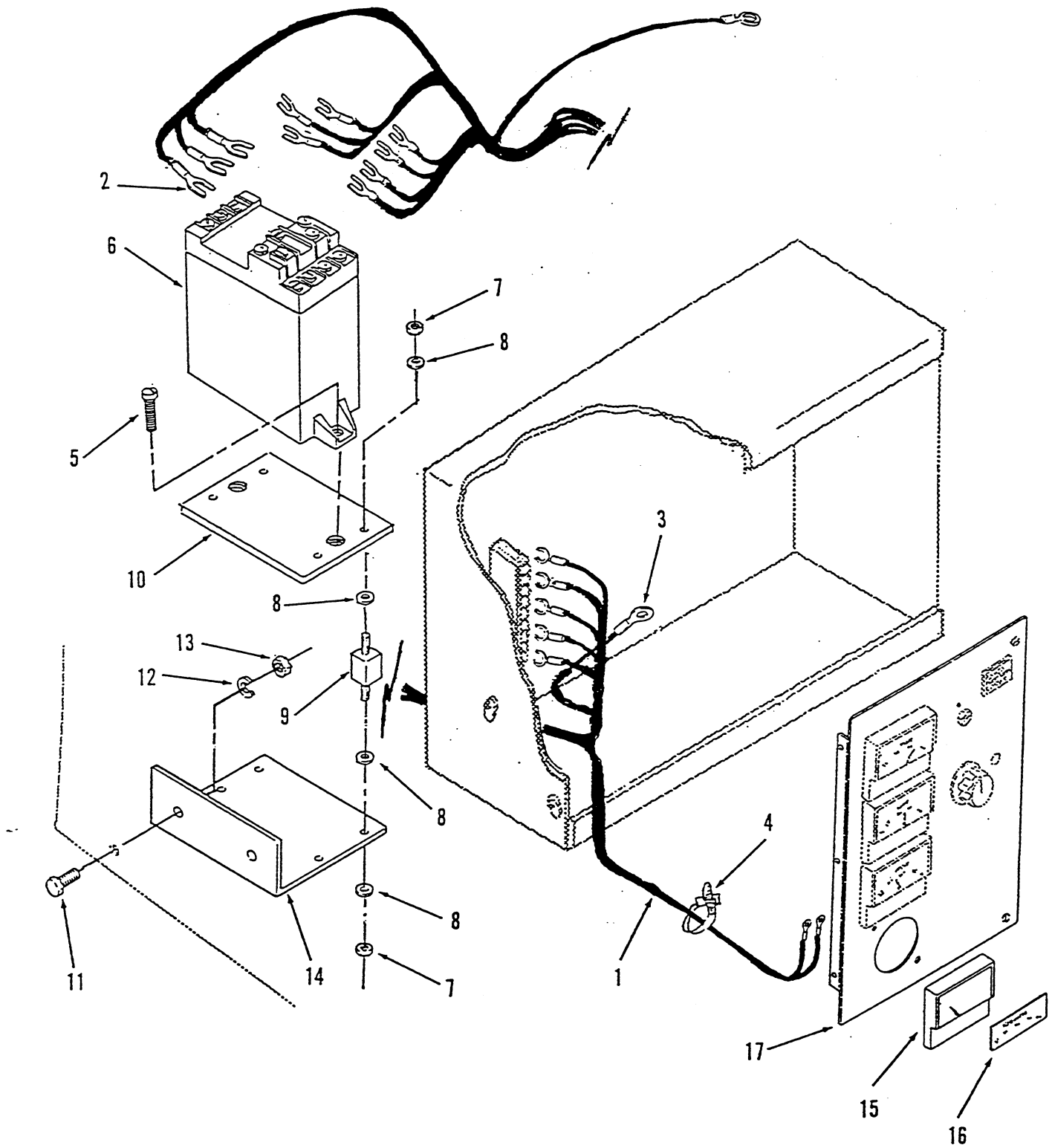


AMMETER & CURRENT TRANSFORMER INSTALLATION OF

REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1	302-1799			1	Ammeter (M22) Scale in Amps as Indicated
	302-1800				0-1500/0-3000 (600 VAC Application)
2	800-2060	016-40820	NE	1	0-2000/0-4000 (120-480 VAC Application)
3	856-0008			1	Screw, Cap - Hex Head (M8-1.25 x 35MM)
4	338-2532			2	Washer, Lock - EIT (5/16")
5	332-1445			1	Harness, Wiring (Includes Cable Ties and Terminals)
6	332-1279			17	Tie, Cable
7	332-2964			6	Terminal, Lug - Forked (No. 6 Screw)
8	332-0806			4	Terminal, Lug - Ring (3/8" Screw)
9	332-1389			4	Terminal, Lug - Ring (No. 8 Screw)
10				6	Tie, Cable (Retainers for Current Transformers)
	302-1794-13			3	Transformer, Current (Turn Ratio Listed)
	302-1794-14				1500/5,3000/5 (600 VAC Application)
					2000/5,4000/5 (120-480 VAC Application)

NOTE: Phantom Items on Control Panel are Identified in Applicable Generator Control Panel Component Illustration and Phantom Item Associated with Current Transformer are Identified in the Applicable Terminal Block Installation Illustration.

WATTMETER INSTALLATION OF

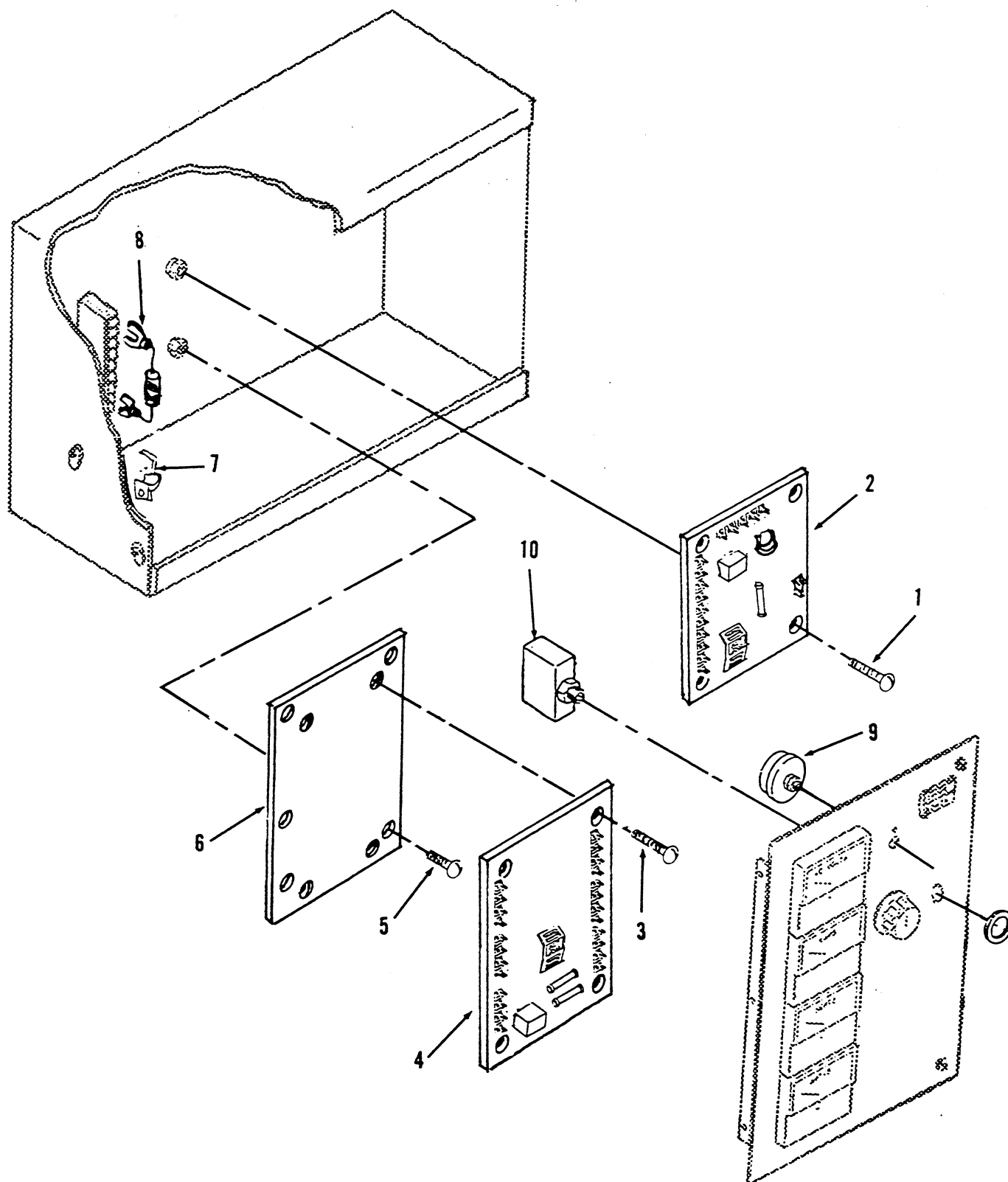


WATTMETER INSTALLATION OF

REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1					Harness, Wiring
	338-1936			1	All Three Phase "WYE" Connected Generators
	338-2478			1	120/240 VAC "DELTA" Connected Generators
	338-2479			1	120/240 VAC "SINGLE PHASE" Connected Generators
2	332-1279			11	Terminal, Lug - Forked (For No. 6 Screw Mounting)
3	332-0897			4	Terminal, Lug - Ring (1/4" Screw Mounting)
4	332-0942			14	Tie, Cable
5	813-0102			2	Screw, Machine - Round Head (#10-32 x 5/8")
6					Transducer, Watt
	302-1833-01			1	All Three Phase "WYE" Connected Generators
	302-1833-04			1	120/240 VAC "SINGLE Phase" Connected Generators
	302-1833-05			1	124/240 VAC "DELTA" Connected Generators
7	860-0008			8	Nut, Hex (#8-32)
8	856-0002			16	Washer, Lock - EIT (#8)
9	402-0354			4	Mount, Shock
10	319-0030			1	Plate, Support - Transducer
11	821-0017			2	Screw, Self-locking - HWH (5/16-18 x 1/2")
12	850-0045			2	Washer, Lock - Spring (5/16")
13	862-0014			2	Nut, Hex (5/16-18)
14	301-6987			1	Bracket, Mounting
15	302-1722			1	Meter, Watt (Less Dial)
16					Dial, Wattmeter
	302-1721-17			1	Scale 0-1200 kW
17	301-9054-01			1	Panel, Control

NOTE: Phantom Items on Control Panel are identified in applicable Generator
Control Panel Component Illustration or applicable Meter Installation Illustration.

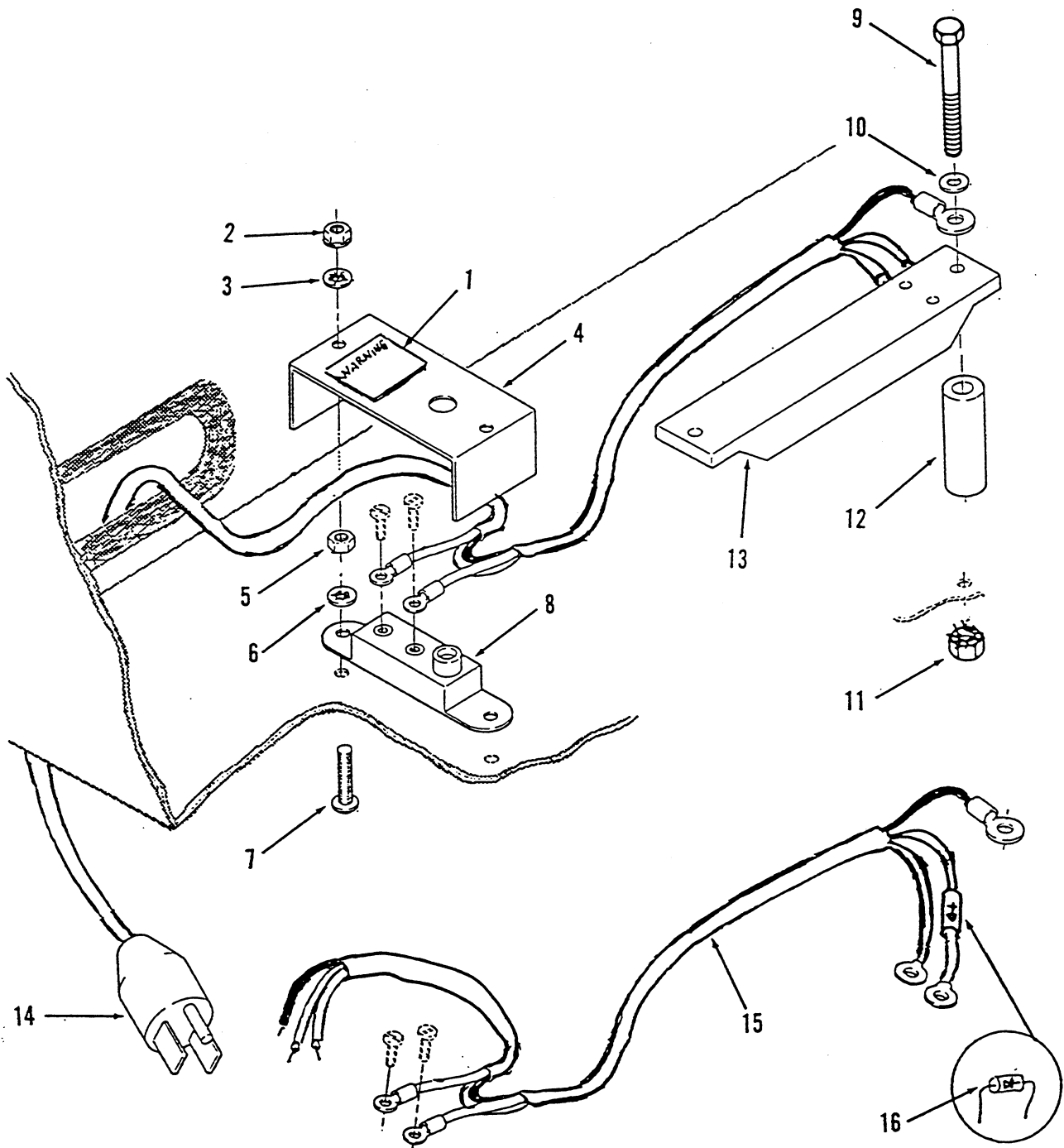
VOLTAGE REGULATOR Installation of



VOLTAGE REGULATOR **Installation of**

REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1	812-0084			4	Screw, Machine - Round Head (#8-32 x 1")
2	305-0824	E000-24030	NE	1	Regulator, Voltage (Model SX440) [NOT USE WITH PMG GENERATORS]
3	815-0218			4	Screw, Machine - Round Head (#6-32 x 1")
4	305-0823	E000-23210	NE	1	Regulator, Voltage (Model MX321) [USED WITH PMG GENERATORS]
5	815-0544			6	Screw, Machine - Round Head (#6-3 x 1/2")
6	319-0652			1	Plate, Mounting - Voltage Regulator
7	331-1043			1	Jumper, Terminal
8	350-1222			1	Resistor and Terminal Assembly
	350-0991			1	Resistor, Fixed (1.5K Ohms +5%)
	332-1673			2	Terminal, Lug - Forked (No. 6 Spade)
9					Potentiometer (Not used on all Sets)
	303-0261			1	1.5K Ohms +10% (Used with SX440 Voltage Regulator)
	303-0285			1	5K Ohms +10% (Used with MX321 Voltage Regulator)
10					Circuit Breaker - Field Current (Select as Applicable)
	320-1688-01			1	5 AMP, 240VAC/50VDC
	320-1688-02			1	5 AMP, 240VAC/50VDC, with AUX Terminals

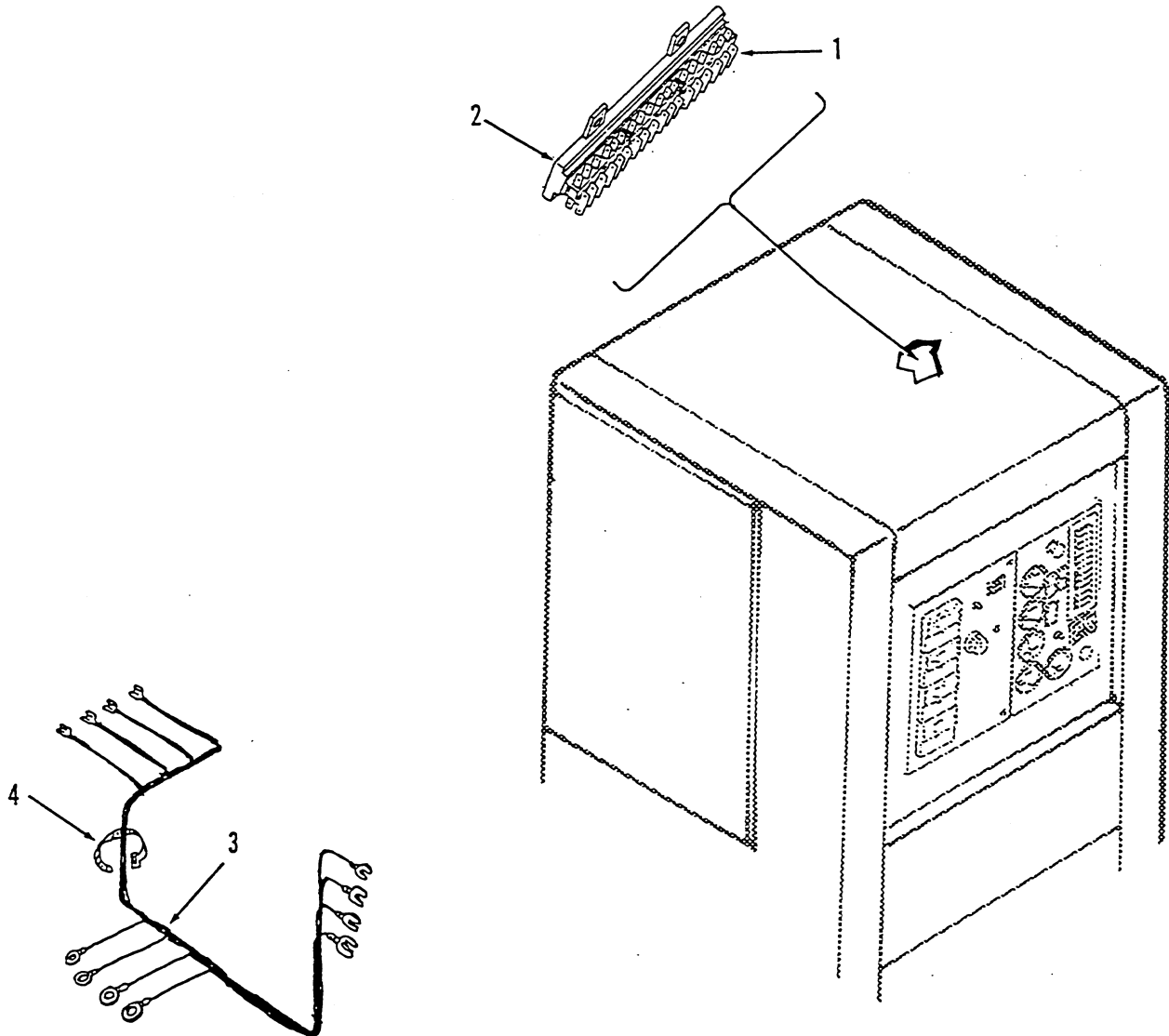
CONTROL SPACE HEATER
Installation Of



CONTROL SPACE HEATER Installation Of

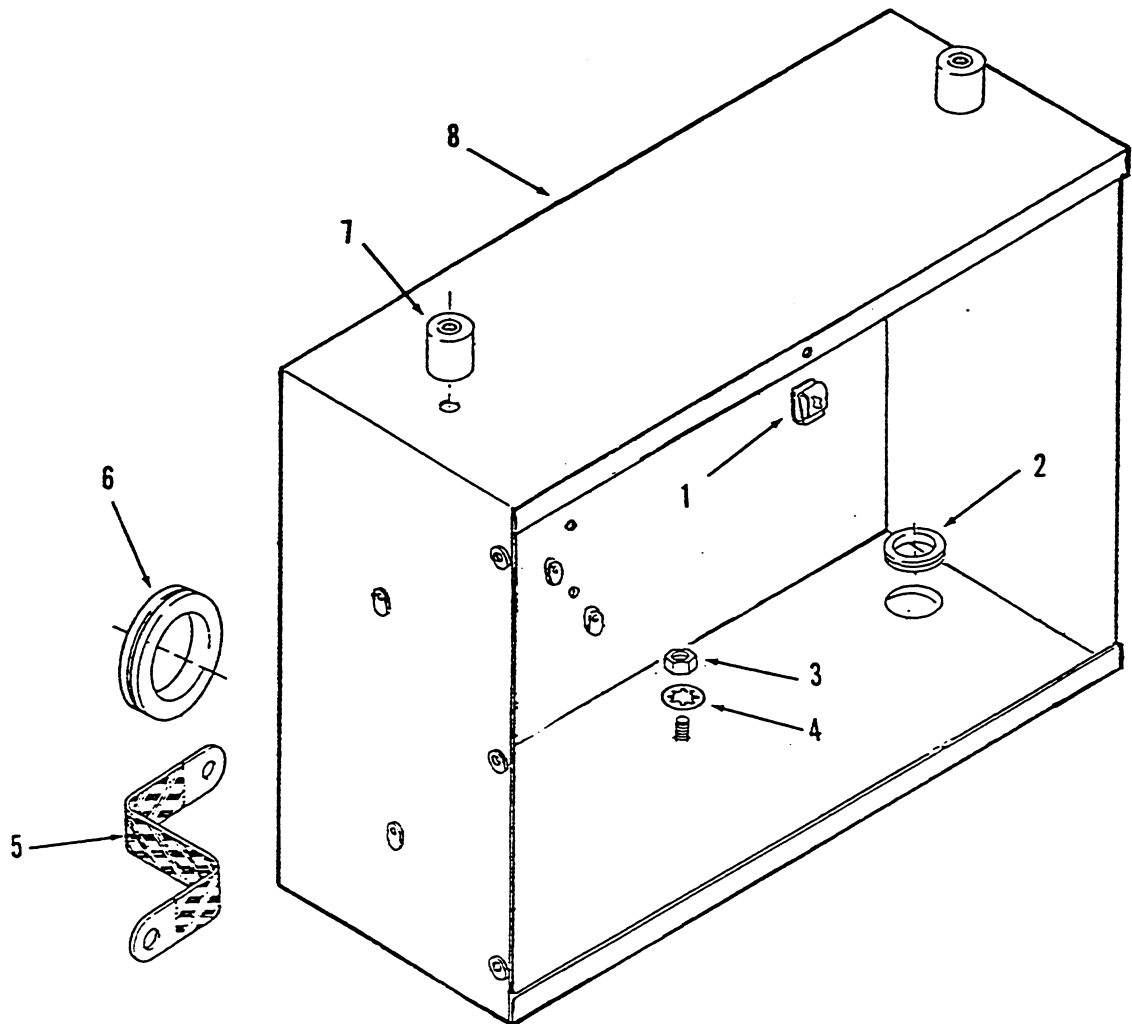
REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1	98-3232			1	Decal - Warning (Shock Hazard)
2	870-0183			2	Nut, Self-locking - HEX (#6-32)
3	854-0006			2	Washer, Lock - IT (#6)
4	301-1886			1	Cover
5	860-0006			1	Nut, Hex (#6-32)
6	854-0006			2	Washer, Lock - IT (#6)
7	812-0070			2	Screw, Machine - Round Head (#6-32 x 1-1/4")
8	309-0128			1	Thermostat - Adjustable
9	800-0034			2	Screw, Cap - Hex Hd (5/16-18 x 2-1/4")
10	526-0113			2	Washer, Flat (5/16")
11	870-0257			2	Nut, Self-locking - Hex (5/16-18)
12	130-1107			2	Spacer
13					Heater, Electrical
	333-0151			1	75 Watt, 120 VAC
	333-0378			1	300 Watt, 240 VAC
14	335-0161			1	Cable, Electrical - 120 VAC Application
15	338-2121			1	Harness, Wiring with Diode, Less Plug (240 VAC Application)
16	357-0013			1	Diode

AUX TERMINAL BLOCK Installation of



REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1		130-20102	NE	1	Base, Terminal
2		E00-10005	NE	3	Block, Terminal - AUX
	812-0085			3	Attaching Parts for AUX Base & Terminal Blocks
	850-0025			3	Screw, Machine - Round Head (#8-32 x 1-1/8")
	870-0221			3	Washer, Lock - Spring (1/8")
				3	Nut, Hex (#8-32)
3	338-2530			1	Harness, Wiring - AC AUX
4	332-1445			4	Tie, Cable

CONTROL BOX & MOUNTING COMPONENTS



REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1	406-0332			2	Receptacle, Turnbutton Fastener
2	508-0001			1	Grommet 3/4" DIA
3	871-0015			2	Nut, Hex (1/4-20) Ground Stud
4	853-0013			2	Washer, Lock - ET (1/4") Ground Stud
5	337-0049			1	Strap, Electrical (Ground)
	800-0024			1	Attaching Parts for Ground Strap
	856-0008			1	Screw, Cap - Hex Head (5/16-18 x 1/2")
6	508-0051			1	Washer, Lock - EIT (5/16")
7	402-0527			1	Grommet 2" DIA
	800-0045			4	Mount, Vibration
	850-0045			4	Attaching Parts for Vibration Mounts
	301-8065			4	Screw, Cap - Hex Head (5/16-18 x 3/8")
				4	Washer, Lock - Spring (5/16")
8				1	Box, Control

NOTES

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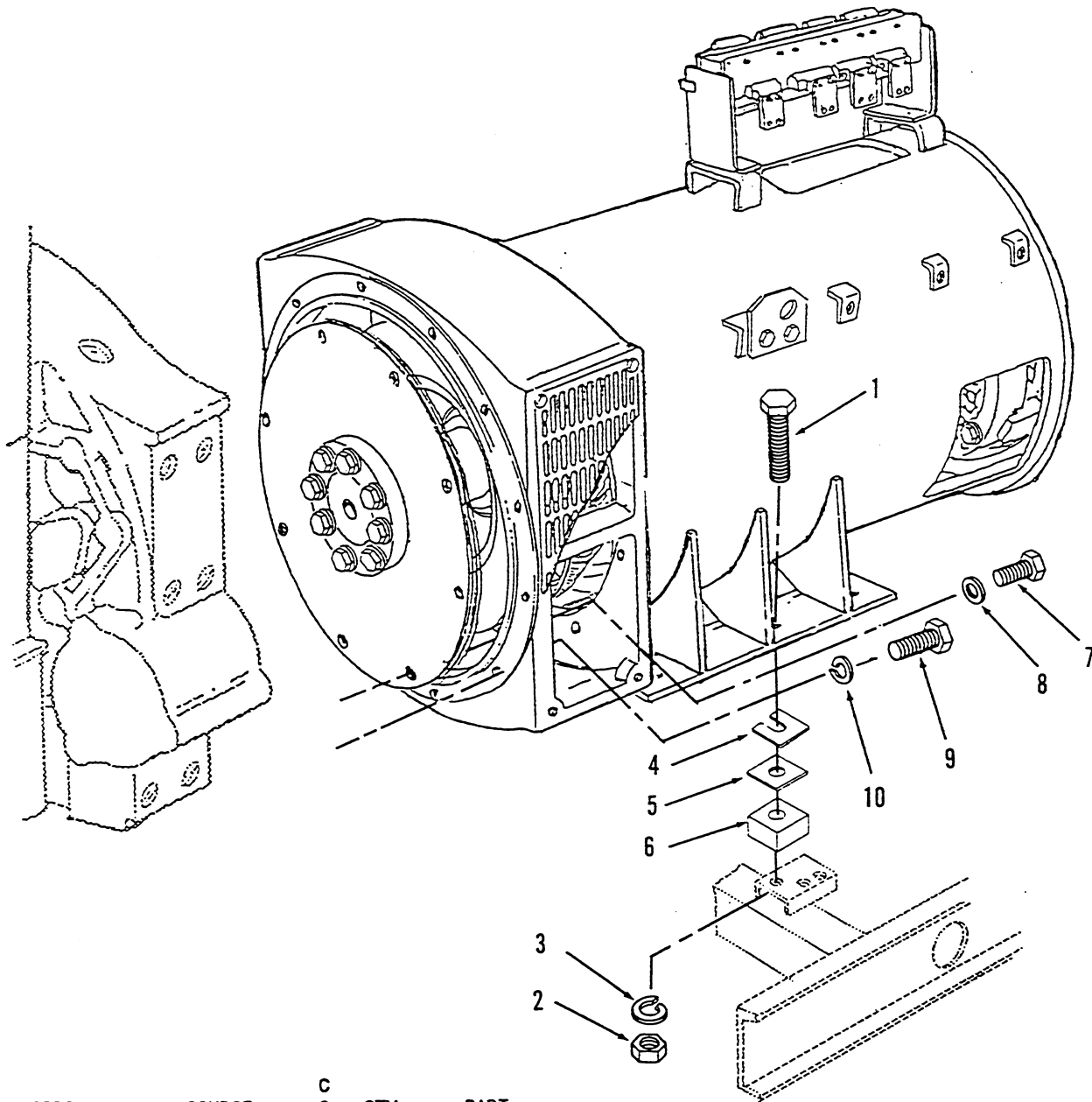
**GENERATOR TABLE
FOR
900 kW 60 Hertz Sets**

ONAN/CUMMINS IDENTIFICATION NUMBER	NEWAGE MODEL IDENTIFICATION NUMBER/LETTER	GEN ADPTR SAE	GEN DISK SAE	APPLICATION DATA VOLTAGES AT AMBIENT TEMPS	SPECIAL FEATURES		
					CSA CERT.	RTD EQUIPED	RAIN LOUVERS
249-0177-01	HC734A-312-D73-4142	0	18	380-480V 80°C	YES	NO	NO
249-0177-03	HC634A-312-D73-4142	0	18	380-480V 80°C	YES	YES	NO
249-0181-09	HC634D-311-D62-4171	0	18	190-480V 105°C	YES	NO	NO
249-0176-09	HC634D-312-D62-4171	0	18	380-480V 105°C	YES	NO	NO
249-0181-10	HC634D-311-D62-4171	0	18	190-480V 105°C	YES	YES	NO
249-0176-10	HC634D-312-D62-4171	0	18	380-480V 105°C	YES	YES	NO
249-0181-09	HC634D-311-D62-4171	0	18	190-480V 125°C	YES	NO	NO
249-0176-09	HC634B-312-D62-4171	0	18	380-480 V 125°C	YES	NO	NO
249-0181-10	HC634B-311-D62-4171	0	18	190-480V 125°C	YES	YES	NO
249-0176-10	HC634B-312-D62-4171	0	18	380-480 V 125°C	YES	YES	NO
249-0176-03	HC634B-312-D62-4170	0	18	480V Only 125°C	YES	NO	NO
249-0176-07	HC634B-312-D62-4170	0	18	480V Only 125°C	YES	YES	NO
249-0185-05	HC634C-007-D62-4170	0	18	600V Only 105°C	YES	NO	NO
249-0185-05	HC634C-007-D62-4170	0	18	600V Only 105°C	YES	YES	NO

**GENERATOR TABLE
FOR
800 kW 50 Hertz Sets**

ONAN/CUMMINS IDENTIFICATION NUMBER	NEWAGE MODEL IDENTIFICATION NUMBER/LETTER	GEN ADPTR SAE	GEN DISK SAE	APPLICATION DATA VOLTAGES AT AMBIENT TEMPS	SPECIAL FEATURES		
					CSA CERT.	RTD EQUIPED	RAIN LOUVERS
249-0177-01	HC734A-312-D73-4142	0	18	346-440V 80°C	YES	NO	NO
249-0177-03	HC734A-312-D73-4142	0	18	346-440V 80°C	YES	YES	NO
249-0181-09	HC634D-311-D62-4171	0	18	190-460V 105°C	YES	NO	NO
249-0176-09	HC634D-312-D62-4171	0	18	346-440V 105°C	YES	NO	NO
249-0181-10	HC634D-311-D62-4171	0	18	190-460V 105°C	YES	YES	NO
249-0176-10	HC634D-312-D62-4171	0	18	346-440V 105°C	YES	YES	NO
249-0181-04	HC634C-311-D62-4170	0	18	190-460V 125°C	YES	NO	NO
249-0176-04	HC634C-312-D62-4170	0	18	346-460 V 125°C	YES	NO	NO
249-0181-08	HC634C-311-D62-4170	0	18	190-460V 125°C	YES	YES	NO
249-0176-08	HC634C-312-D62-4170	0	18	346-460 V 125°C	YES	YES	NO
249-0176-04	HC634C-312-D62-4170	0	18	440V Only 125°C	YES	NO	NO
249-0176-08	HC634C-312-D62-4170	0	18	440V Only 125°C	YES	YES	NO

GENERATOR
HC634 MODELS
Installation Of



REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
------------	------------------	--------------------	------------------	-------------	---------------------

Generators with SAE 0 Adapter/ SAE 18 Drive Disc (See Separate Page for Servicable Components)					
1	800-0304		2	2	Screw, Cap - Hex Head (1 1/4 - 7 x 5 1/2")
2	862-0017		2	2	Nut, Hex (1 1/4 - 7)
3	850-0092		2	2	Washer, Lock - Spring (1 1/4")
4					Shim (Select as Required)
	232-3552-01		4	4	1/32"THK
	232-3552-02		4	4	5/64"THK
5	403-2921		4	4	Shim (1/8"THK) (Select as Required)
6	232-3551		2	2	Spacer (2"THK)
7	805-0035		6	6	Bolt, Place - Hex Head (5/8-11 x 1-1/2")
8	526-0343		6	6	Washer, Flat (5/8")
9	800-0576		16	16	Screw, Cap - Hex Head (1/2-13 x 1-3/4" Grade 8)
10	850-0060		16	16	Washer, Lock - Spring (1/2")

**GENERATOR
HC634 MODELS
SERVICABLE COMPONENTS**

REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
GENERATOR STATOR GROUP					
Note 1	Note 3		NE	1	Stator, Generator (Main Stator; No Servicable Components)
GENERATOR END BELL GROUP					
Note 1	Note 3		NE	1	End Bell Assembly (Includes Exciter Stator, Bearing Caps and End Bell)
Attaching Parts End Bell to Stator					
800-2114	016-41021		NE	8	Screw, Cap - Hex Head (M12 x 40mm)
850-2012	028-31510		NE	8	Washer, Lock - Spring (M12)
-----*					
Note 1	Note 2		NE	1	End Bell, Generator
249-0470	366-12500		NE	1	Stator, Exciter
Attaching Parts for Stator					
249-0445	016-41613		NE	6	Screw, Cap - Hex Head (M6 x 65mm)
850-2006	028-31507		NE	6	Washer, Lock - Spring (M6)
-----*					
249-0510	462-12930		NE	1	Cap, Bearing - Outer
Attaching Parts for Outer Cap					
800-2528	016-40919		NE	4	Screw, Cap - Hex Head (M10 x 30mm)
850-2010	028-31509		NE	4	Washer, Lock - Spring (M10)
-----*					
249-0509	462-12920		NE	1	Cap, Bearing - Inner
Attaching Parts for Inner Cap					
800-2528	016-40919		NE	4	Screw, Cap - Hex Head (M10 x 30mm)
850-2010	028-31509		NE	4	Washer, Lock - Spring (M10)
-----*					
GENERATOR ROTOR GROUP					
Note 1	Note 3		NE	1	Rotor, Generator (Main Rotor, Exciter Rotor, Bearing, etc.)
Note 1	Note 3		NE	1	Rotor Assy, Exciter (Includes Rectifier Assembly and Wound Rotor)
249-0512	464-43300		NE	1	Rotor, Exciter - Wound
357-0093	362-12800		NE	1	Rectifier Assembly (Includes Diodes and Varistor)
Attaching Parts for Rectifier Assembly					
800-2043	016-41613		NE	4	Screw, Cap - Hex Head (M6 x 65mm)
850-2006	028-31507		NE	4	Washer, Lock - Spring (M6)
526-2080	029-62101		NE	4	Washer, Flat (M6)
-----*					
249-0240	450-11760		NE	1	Varistor
249-0238	364-10850		NE	3	Diode - Reverse
249-0239	364-10840		NE	3	Diode - Forward
Attaching Parts for Diodes					
860-2006	027-41206		NE	6	Nut, Hex (M5)
850-2005	028-31506		NE	6	Washer, Lock - Spring (M5)
-----*					
249-0447	050-11011		NE	1	Ring, Retaining (Circlip)
249-0620	054-10076		NE	1	Key, Machine
249-0448	051-01025		NE	1	Bearing, Ball

PMG GROUP

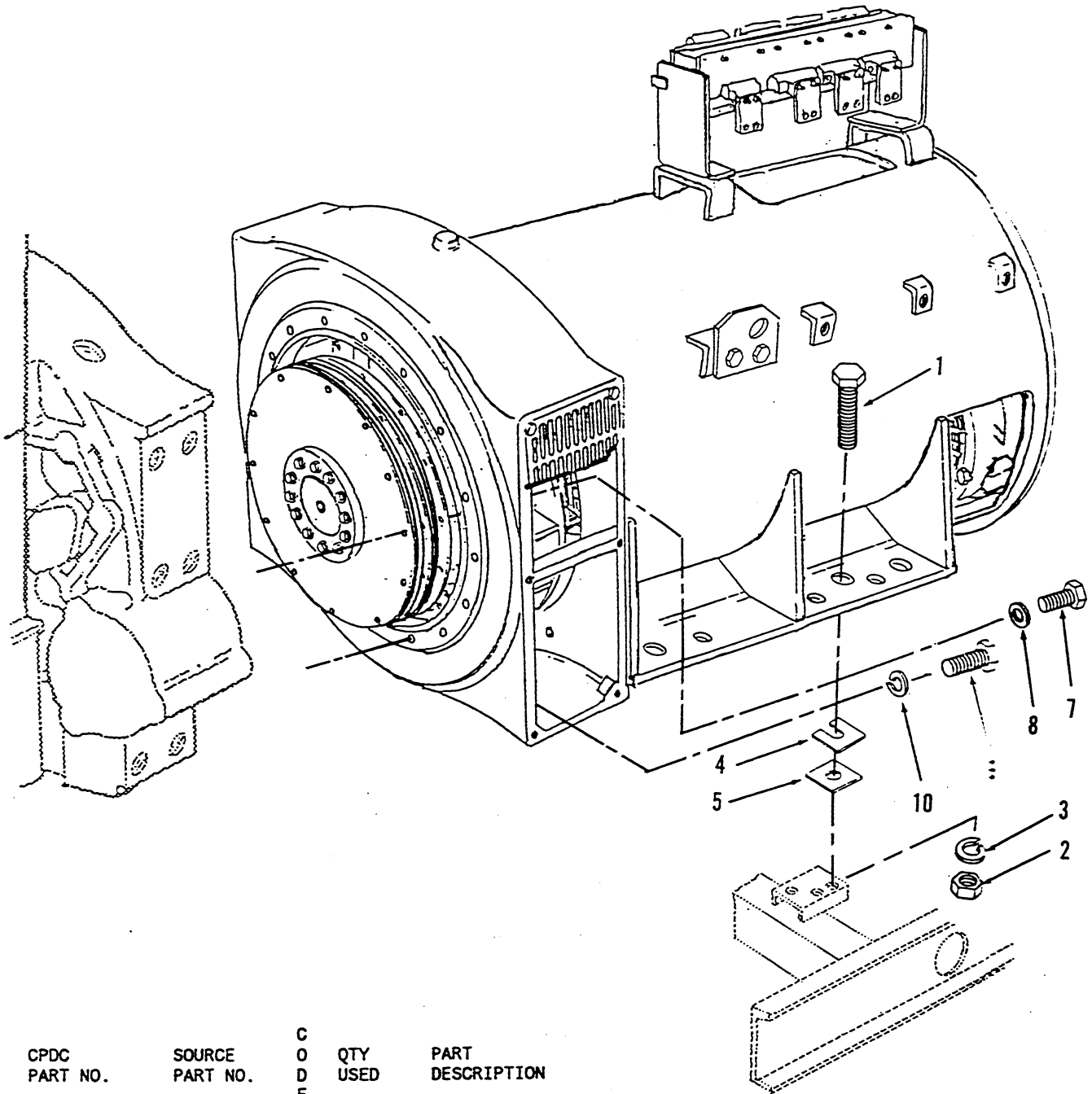
See Separate page for Servicable Components

NOTE 1. NOT STOCKED OR SOLD BY THE CENTRAL PARTS DISTRIBUTION CENTER!

NOTE 2. NOT STOCKED FOR SALE BY NEWAGE INTERNATIONAL. REPLACEMENT ORDER MAY HAVE A LONG LEAD TIME.

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GENERATOR
HC734 MODELS
Installation Of



REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
Generators with SAE 0 Adapter/ SAE 18 Drive Disc (See Separate Page for Servicable Components)					
1	800-0303			2	Screw, Cap - Hex Head (1 1/4 - 7 x 3 1/2")
2	862-0017			2	Nut, Hex (1 1/4 - 7)
3	850-0092			2	Washer, Lock - Spring (1 1/4")
4					Shim (Select as Required)
	232-3552-01			4	1/32"THK
	232-3552-02			4	5/64"THK
5	403-2921			4	Shim (1/8"THK) (Select as Required)
7	805-0035			6	Bolt, Place - Hex Head (5/8-11 x 1-1/2")
8	526-0343			6	Washer, Flat (5/8")
9	800-0576			16	Screw, Cap - Hex Head (1/2-13 x 1-3/4" Grade 8)
10	850-0060			16	Washer, Lock - Spring (1/2")

**GENERATOR
HC734 MODELS
SERVICABLE COMPONENTS**

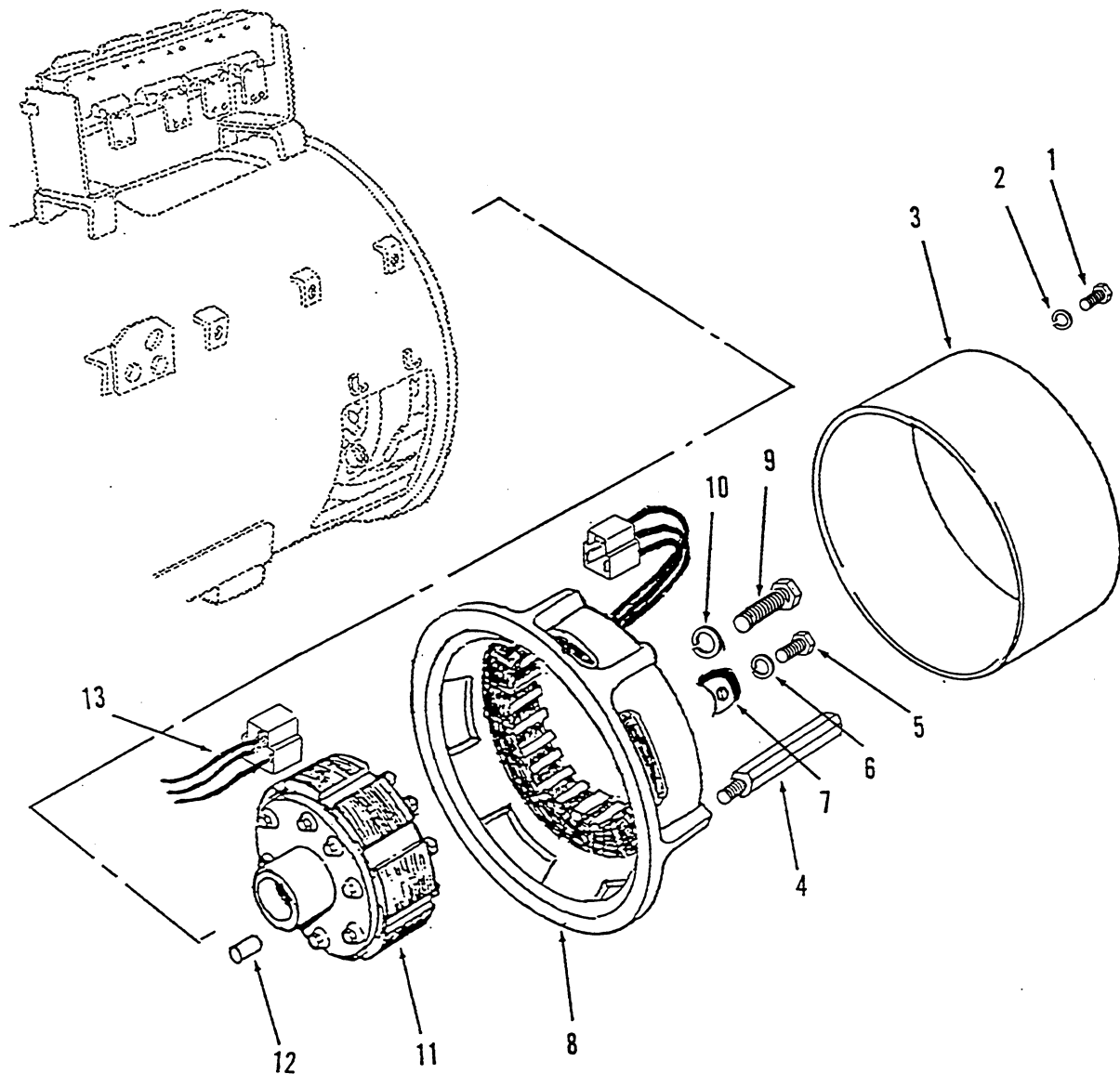
REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
GENERATOR STATOR GROUP					
Note 1	Note 3	NE	1	1	Stator, Generator (Main Stator; No Servicable Components)
GENERATOR END BELL GROUP					
Note 1	Note 3	NE	1	1	End Bell Assembly (Includes Exciter Stator, Bearing Caps & End Bell)
Attaching Parts End Bell to Stator					
800-2114	016-41021	NE	8	8	Screw, Cap - Hex Head (M12 x 40mm)
850-2012	028-31510	NE	8	8	Washer, Lock - Spring (M12)
-----*					
Note 1	Note 2	NE	1	1	End Bell, Generator
249-0470	366-12500	NE	1	1	Stator, Exciter
Attaching Parts for Stator					
249-0438	015-41617	NE	6	6	Screw, Cap - Hex Head (M6 x 85mm)
850-2006	028-31507	NE	6	6	Washer, Lock - Spring (M6)
-----*					
249-0510	462-12930	NE	1	1	Cap, Bearing - Outer
Attaching Parts for Outer Cap					
800-2528	016-40919	NE	4	4	Screw, Cap - Hex Head (M10 x 30mm)
850-2010	028-31509	NE	4	4	Washer, Lock - Spring (M10)
-----*					
249-0509	462-12920	NE	1	1	Cap, Bearing - Inner
Attaching Parts for Inner Cap					
800-2091	016-40923	NE	4	4	Screw, Cap - Hex Head (M10 x 50mm)
850-2010	028-31509	NE	4	4	Washer, Lock - Spring (M10)
-----*					
GENERATOR ROTOR GROUP					
Note 1	Note 3	NE	1	1	Rotor, Generator (Main Rotor, Exciter Rotor, Bearing, etc.)
Note 1	Note 3	NE	1	1	Rotor Assy, Exciter (Includes Rectifier Assembly and Wound Rotor)
249-0503	464-43500	NE	1	1	Rotor, Exciter - Wound
357-0093	362-12800	NE	1	1	Rectifier Assembly (Includes Diodes and Varister)
Attaching Parts for Rectifier Assembly					
800-2043	016-41613	NE	4	4	Screw, Cap - Hex Head (M6 x 65mm)
850-2006	028-31507	NE	4	4	Washer, Lock - Spring (M6)
526-2080	029-62101	NE	4	4	Washer, Flat (M6)
-----*					
249-0566	450-11740	NE	1	1	Varistor (Surge Suppressor)
249-0238	364-10850	NE	3	3	Diode - Reverse
249-0239	364-10840	NE	3	3	Diode - Forward
Attaching Parts for Diodes					
860-2006	027-41206	NE	6	6	Nut, Hex (M5)
850-2005	028-31506	NE	6	6	Washer, Lock - Spring (M5)
-----*					
249-0447	050-11011	NE	1	1	Ring, Retaining (Circlip)
249-0620	054-10076	NE	1	1	Key, Machine
249-0448	051-01025	NE	1	1	Bearing, Ball
PMG GROUP					
See Separate page for Servicable Components					

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**GENERATOR
PERMANENT MAGNET EXCITER
Installation Of**



REF NO.	CPDC PART NO.	SOURCE PART NO.	C O D E	QTY USED	PART DESCRIPTION
1	800-2004	016-40614	NE	3	Screw, Cap - Hex Head (M5 x 12mm)
2	850-2005	028-31506	NE	3	Washer, Lock - Spring (M5)
3	234-0890	450-11901	NE	1	Cover, PMG
4	232-3527	450-13340	NE	3	Pillar, Threaded
5	800-2056	016-40816	NE	4	Screw, Cap - Hex Head (M8 x 16mm)
6	850-2008	028-31508	NE	4	Washer, Lock - Spring (M8)
7	232-3526	150-10710	NE	4	Clamp, PMG Stator
8	249-0741	450-26400	NE	1	Stator and Frame, PMG
9	249-0495	450-13330	NE	1	Bolt, Hex Head
10	850-2010	028-31509	NE	1	Washer, Lock Spring (M10)
11	249-0644	450-23900	NE	1	Rotor, PMG
12	516-0228	054-20505	NE	1	Pin, Dowel (M5 x120mm)
13	249-0642	450-22000	NE	1	Harness, Wiring (Universal Replacement) PMG to AUX Terminal Strip

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MANUFACTURERS

LOCATION

TELEPHONE

CUMMINS/ONAN POWER SYSTEMS
1400 73rd Avenue N.E.
Minneapolis, Minnesota, USA
55432

Telephone: 612-574-5000
Telex: 275477
Fax: 612-574-5298

CUMMINS ENGINE COMPANY, INC.
Columbus, Indiana, USA
47202-3005

NEWAGE ENGINEERS LIMITED
P.O. Box 17
Barnack Road
Stamford, Lincolnshire, England
PE9 2NB

Telephone: 0780-62552
Telex: 32268
Cables: " Newage" Stamford

SOURCES

C
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<u>LOCATION</u>	<u>TELEPHONE</u>
CE CUMMINS ENGINE COMPANY, INC. Columbus, Indiana, USA 47202-3005	
MO (FORMERLY MOTOROLA ALTERNATORS) DISTRIBUTION DIVISION OF PRESTOLITE ELECTRIC INC. 2101 South Arlington Heights Road Suite 180 Arlington Heights, Illinois, USA 60005	Telephone: 312-952-0445
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NEWAGE ENGINEERS PTY. LIMITED 2A Parkes Street, Thornleigh New South Wales 2120 , Australia	Telephone: Sydney 8751933 Telex: 26686
NEWAGE EQUIPMENT LIMITED P.O.Box 427, Islington, Ontario, Canada M9A 4X4	Telephone: 416-259-3741 Telex: 06-967676
NEWAGE ENGINEERS G.m.b.H. Archenholzstr 69,2000 Hamburg 74, West Germany	Telephone: 040-712-20-44/45 Telex: 2174397
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NEWAGE ITALIA S.r.l. Viale Fulvio Testi 56 20125 Milan, Italy	Telephone: 6420-868/64-36-602 Telex: 330541
NEWAGE NORGE A/S Staalfjera 12 Oslo 9, Norway	Telephone: 25-1635 Telex: 18835

SOURCES

C
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LOCATION

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Singapore 1027

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Telex: 33404

STAMFORD IBERICA S.A.
Paseo de la Castellano 62
Madrid 1, Spain

Telephone: 261-8558/8566
Telex: 43551

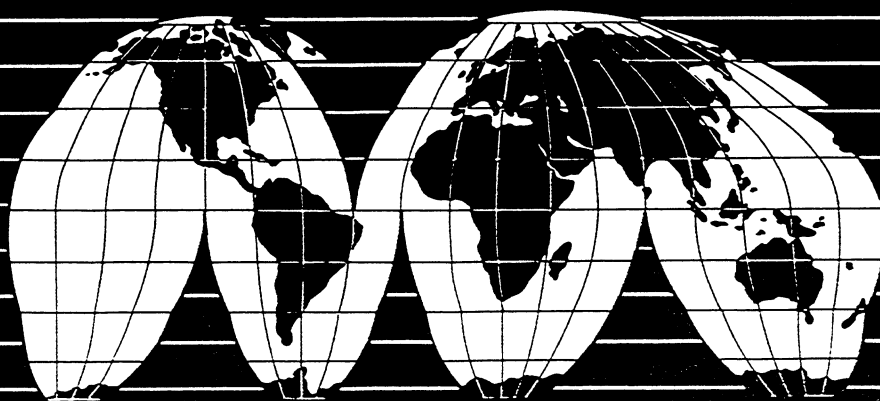
NEWAGE LIMITED
P.O. Box 103
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Folcroft Industrial Park
Folcroft, Pennsylvania, USA
19032

Telephone: 215-534-9500
Telex: 845276



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1400 73rd Avenue N.E.
Minneapolis, MN 55432

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