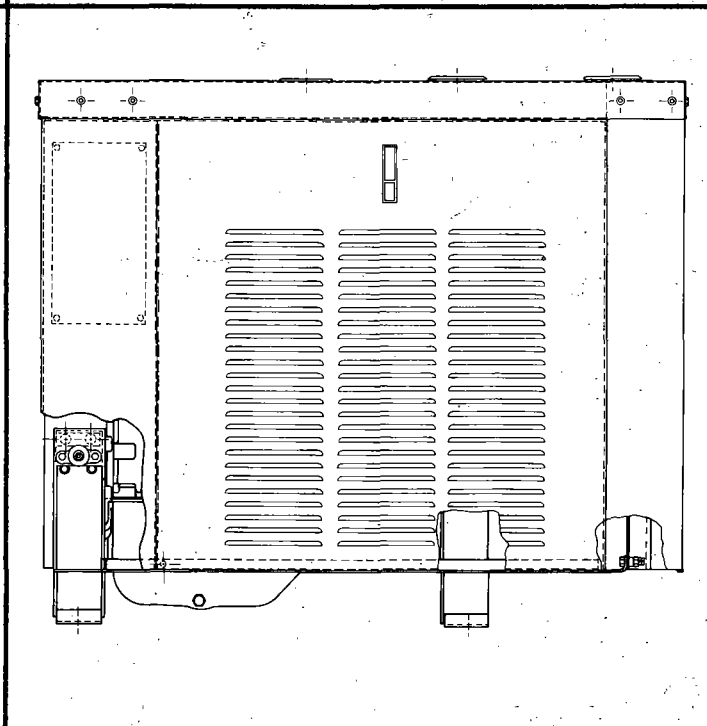
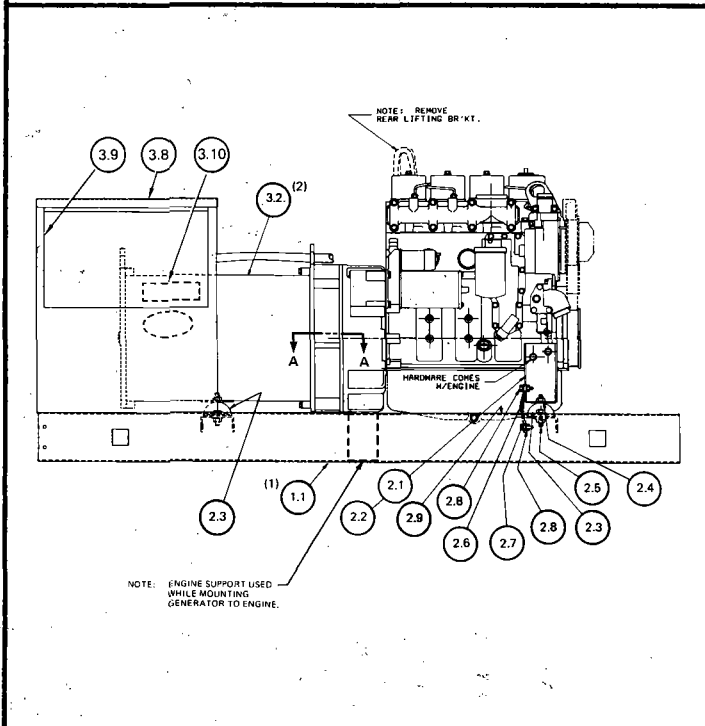
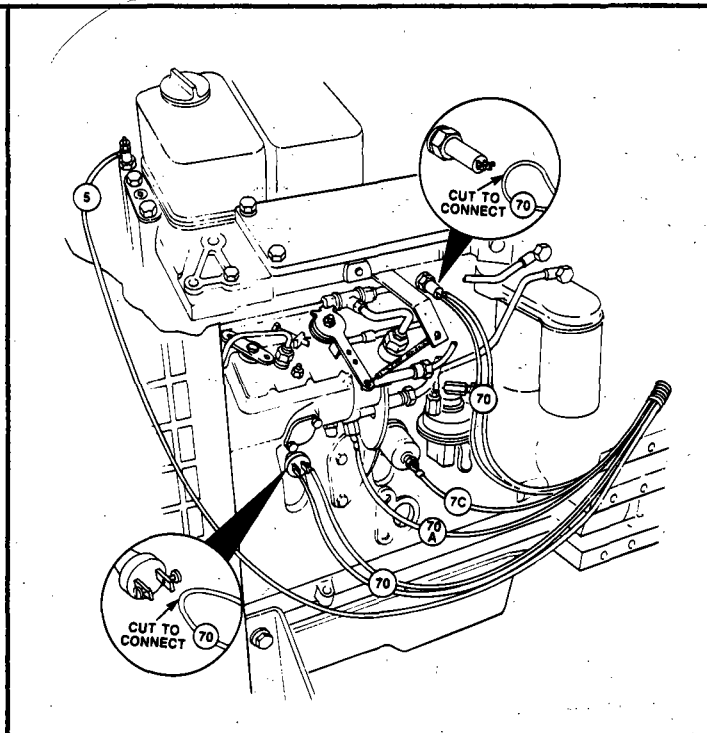
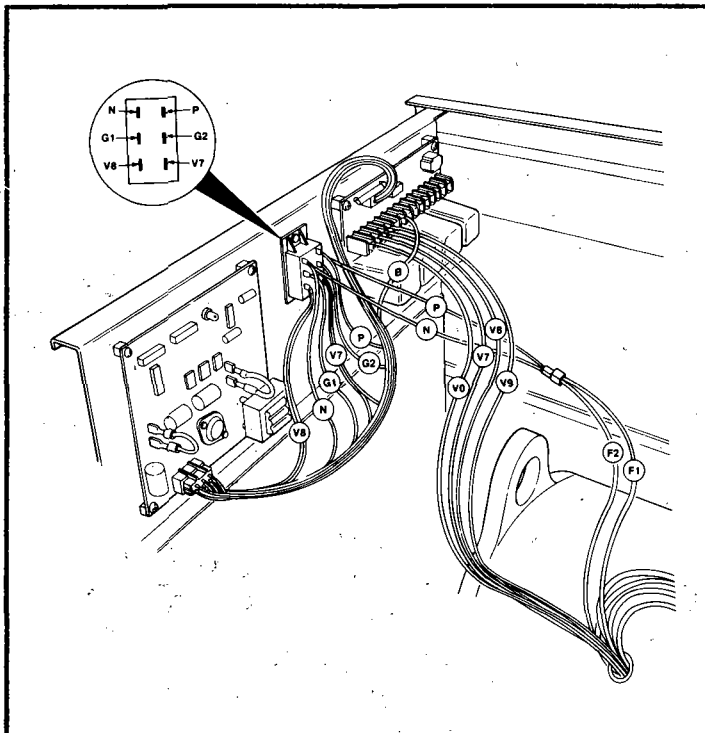




B SERIES 4B(T)(A)3.9 and 6B(T)(A)5.9

Power Unit and Generator Set Kit Upfit Instructions



HOW TO USE THESE KIT UPFIT INSTRUCTIONS

The B Series power unit and generator set upfit kits have been designed for simple, quick upfitting by an experienced mechanic at a Cummins distributorship. There are no special tools, no special tolerances or shimming required.

These instructions should be followed to ensure the final product is assembled, tested and painted to Cummins standard in a controlled and orderly manner.

1. **PICK THE UPFIT KITS AND BASE ENGINE NEEDED FOR ASSEMBLY.** These are identified on each box by the kit option number.
2. **ASSEMBLE THE KITS IN THE SEQUENCE SHOWN ON PAGES 4 AND 5.** A copy of the appropriate page can be used to circle the kits to be upfitted for control in picking and upfitting each unit. Open each of the kits only as they are required. Complete the assembly of each kit before opening the next kit, unless some parts from another kit are needed as shown on the option assembly drawing. This will minimize the time spent looking for components at each stage.
3. **ASSEMBLE EACH KIT USING THE PAGE NUMBER AS REFERENCED ON PAGE 4 OR 5.** The bill of material is organized in the recommended assembly sequence and each item is highlighted on the same assembly drawing. Notes are provided against items which require some comment to explain the upfit procedure. Use standard torque settings for the nuts, bolts, screws, and fasteners which are shown on page 6, unless a specific torque rating is provided.
4. **TEST AND PAINT THE UNITS** as per the instructions, ensuring the items listed after test and paint on page 2 and 3 are upfitted afterwards or supplied loose. A suggested test card for the generator set is included to assist in ensuring tests are made and recorded for future reference.
5. **RECORD THE UPFIT OPTION NUMBER** and any locally sourced items used against the appropriate engine serial number. This should be readily retrievable by engine serial number for parts and service inquiries.

REPLACEMENT SERVICE PARTS INFORMATION

The primary purpose of this Manual is to provide Assembly and Upfit Instructions for Custom Power Units. This manual may assist in identifying replacement service parts. Replacement service parts are identified by part number and description within each option.

Order replacement service parts thru your regular Cummins Parts Order contact. Use a separate purchase order for the Generator and Power Unit replacement Service Parts.

When you can't identify the required replacement part, provide your Cummins Service Parts Order contact with the following information:

Description of the required part.
Option number where the required part is found.
Model, Engine, Unit, Serial Number and Spec.

The engine serial number is on the Engine Data Plate located on the Gear Housing (Fuel Pump side of engine).

The Power Unit Model, Serial Number, and Spec is on the Power Unit Data Plate located on the upper left corner of the back enclosure panel.

Cummins	
MODEL	SERIAL NO.
SPEC.	
GIVE ABOVE NUMBERS WHEN ORDERING PARTS	
BATTERY	VOLTS D.C. WT. LB./KG.
CUMMINS ENGINE COMPANY, INC., U.S.A.	
3904004	253763

Cummins	
MODEL	SERIAL NO.
SPEC.	
GIVE ABOVE NUMBERS WHEN ORDERING PARTS	
POWER RATINGS	
RPM	BRAKE HORSEPOWER
	TORQUE LB.-FT.
ASSEMBLED BY	
BATTERY	VOLTS D.C. CODE NO.
	WT. LB./KG.
CUMMINS ENGINE COMPANY, INC., U.S.A.	

The generator Set Model, Serial Number and Spec is on the Generator Set Data Plate located on the front side of the Main Generator conduit box.

Cummins	
MODEL 48TA 3.9 G.C.	SERIAL NO. 139802
SPEC. 123401	
GIVE ABOVE NUMBERS WHEN ORDERING PARTS	
GENERATOR SET RATINGS	
60 HZ 1800 RPM	50 HZ 1500 RPM
200-240 V	200-240 V
104-90 AMPERES	104-90 AMPERES
181 AMPERES	181 AMPERES
225 AMPERES	225 AMPERES
3 Phase 120/208 F	
FACTORY TESTED ** IF RECONNECTED STAMP **	
UNIT IS RECONNECTABLE TO ALL VOLTAGES WHERE AMPERES ARE INDICATED	
BATTERY 12	VOLTS D.C. WT. LB./KG. 1725/783
CUMMINS ENGINE COMPANY, INC., U.S.A.	

Cummins	
MODEL 48TA 3.9 G.C.	SERIAL NO. 139802
SPEC. 123401	
GIVE ABOVE NUMBERS WHEN ORDERING PARTS	
GENERATOR RATINGS	
60 HZ 1800 RPM	50 HZ 1500 RPM
200-240 V	200-240 V
104-90 AMPERES	104-90 AMPERES
181 AMPERES	181 AMPERES
225 AMPERES	225 AMPERES
3 Phase 120/208	
UNIT IS RECONNECTABLE TO ALL VOLTAGES WHERE AMPERES ARE INDICATED	
ASSEMBLED BY AUTHORIZED SERVICE CENTER	
BATTERY 12	VOLTS D.C. WT. LB./KG. 1725/783 CODE NO.
CUMMINS ENGINE COMPANY, INC., U.S.A.	

INDEX - B SERIES GENERATOR SET
UPFIT KIT ASSEMBLY - TEST - PAINT SEQUENCE

OPTION CODE	DESCRIPTION	OPTION NUMBERS					Page
		4B3.9	4BT3.9-1	4BT3.9-2	6BT5.9-1	6BT5.9-2	No.
RB-84	Sub-Base	RB9902	RB9902	RB9902	RB9903	RB9903	16
FS-81	Fuel Tank (8 gal)	FS9901	FS9901				12
EM-81	Support and Isolators	SA9901	SA9901	SA9901	SA9901	SA9901	16
NG-81	Base Engine, 60 Hz	MO9003	MO9004	MO9149	MO9048	MO9150	16
MG-82	Heater, Generator Space, 120/240V	EA9901	EA9901	EA9901	EA9901	EA9901	14
MG-82	Main Generator	MG9901	MG9902	MG9903	MG9904	MG9906	16
	Junction Box Assembly	MG9901	MG9902	MG9903	MG9904	MG9906	18
	Voltage Regulator Assembly	MG9901	MG9902	MG9903	MG9904	MG9906	20
PA-81	Control Panel, Manual Start	SD9903	SD9903	SD9903	SD9903	SD9903	50
PA-82	Control Panel, Auto Start	SD9901	SD9901	SD9901	SD9901	SD9901	40
PA-91	Wiring Harness, Manual or Auto Start	EG9905	EG9905	EG9905	EG9913	EG9913	40
MG-83	Circuit Breaker,						62
FR-81	Electronic Governor, 12V	ES9901	ES9901	ES9901	ES9902	ES9902	66
PA-85	Ammeter and Current Transformer	EG9902	EG9902	EG9915	EG9915	EG9921	74
PA-84	Meter Panel	GP9901	GP9901	GP9901	GP9901	GP9901	74
PA-83	Control Panel, NFPA	SD9904	SD9904	SD9904	SD9905	SD9905	80
PA-92	Wiring Harness, NFPA 76A Controls	EG9927	EG9927	EG9927	EG9914	EG9914	80
ST-82	Battery Rack & Cables, Open Units	SB9901	SB9901	SB9901	SB9901	SB9901	96
ST-83	Battery Rack & Cables, Enclosed Units	SB9905	SB9905	SB9905	SB9901	SB9901	96
ST-81	Battery (When Under Radiator)	SB9904	SB9904	SB9904	SB9904	SB9904	96
HX-86	Radiator and Fan, Blower	RA9902	RA9902	RA9906	RA9906	RA9928	98
HX-87	Radiator Cowl	RA9903	RA9903	RA9903	RA9903	RA9929	98
HX-84	Radiator Duct Flange	RA9907	RA9907	RA9907	RA9907	RA9934	100
AC-82	Air Filter -- Normal Duty	AC9904	AC9901	AC9901	AC9910	AC9910	106
AC-81	Air Filter -- Heavy Duty	AC9902	AC9903	AC9903	AC9924	AC9924	108
CS-81	Heater, Oil Pan, 120V	OH9901	OH9901	OH9901	OH9901	OH9901	110
CS-82	Heater, Oil Pan, 240V	OH9902	OH9902	OH9902	OH9902	OH9902	110
CS-83	Heater, Coolant, 750W, Manual, 120V	CH9901	CH9901	CH9901	CH9901	CH9901	111
CS-84	Heater, Coolant, 1500W, Auto, 120V	CH9902	CH9902	CH9902	CH9902	CH9902	111
CS-85	Heater, Coolant, Auto, 240V	CH9903	CH9903	CH9903	CH9903	CH9903	111
LA-81	Lifting Hook	LA9901	LA9901	LA9901	LA9901	LA9901	112
HP-84	Enclosure	HP9903	HP9904	HP9904	HP9910	HP9924	122
XS-81	Exhaust, Flexible Connector	PE9901	PE9902	PE9902	PE9902	PE9902	124
XS-91	Mounting, Silencer, Industrial	PE9908	PE9903	PE9903	PE9903	PE9912	126
XS-90	Mounting, Silencer, Critical	PE9909	PE9910	PE9910	PE9910	PE9912	126
XS-86	Silencer, Industrial	MU9901	MU9901	MU9901	MU9901	MU9909	126
XS-87	Silencer, Critical	MU9907	MU9907	MU9907	MU9907	MU9910	126
ST-81	Battery	SB9904	SB9904	SB9904	SB9904	SB9904	96
ST-84	Battery Charger -- Trickle 12/24V	SB9903	SB9903	SB9903	SB9903	SB9903	See Spec Sheet
ST-85	Battery Charger -- Auto Float	SB9902	SB9902	SB9902	SB9902	SB9902	
PA-86	Annunciator Panel, NFPA 76A	GP9902	GP9902	GP9902	GP9902	GP9902	
	Final Inspection						88
	Control Panel, NFPA-110						88
	Control Panel, 5-Light						—
	Wiring Harness						—

INDEX - B SERIES POWER UNIT
UPFIT ASSEMBLY - TEST - PAINT SEQUENCE

OPTION CODE	DESCRIPTION	OPTION NUMBERS						Page No.
		4B3.9	4BT3.9	4BTA3.9	6B5.9	6BT5.9	6BTA5.9	
EM-83	Supports	SA9904	SA9904	SA9904	SA9904	SA9904	SA9904	134
RB-81	Pedestal Feet	RE9904	RE9904	RE9904	RE9904	RE9904	RE9904	100
NG-84	Base Engine	MO9153	MO9154	MO9155	MO9009	MO9010	MO9048	—
ST-85	Battery Cable	SB9909	SB9909	SB9909	SB9909	SB9909	SB9909	96
ST-81	Battery - 12 Volt	SB9904	SB9904	SB9904	SB9906	SB9906	SB9906	96
HX-81	Radiator	RA9935	RA9935	RA9936	RA9936	RA9936	RA9936	100
FN-81	Fan, Sucker	FN9911	FN9911	FN9911	FN9912	FN9912	FN9912	100
HX-85	Radiator & Fan, Blower (for Sub-Base Mfg) Shield	RA9938	RA9938	RA9938	—	—	—	138
FN-82	Fan, Blower (Engine Mounted)	FN9914	FN9914	FN9914	FN9915	FN9915	FN9915	100
AC-81	Air Filter, Heavy Duty	—	—	—	AC9911	AC9924	AC9925	108
AC-82	Air Filter, Medium Duty	AC9902	AC9903	AC9903	AC9911	AC9924	AC9924	108
CS-81	Heater, Oil Pan, 120V	OH9901	OH9901	OH9901	OH9901	OH9901	OH9901	110
CS-82	Heater, Oil Pan, 240V	OH9902	OH9902	OH9902	OH9902	OH9902	OH9902	110
CS-83	Heater, Engine Coolant, 750W, Man. 120V	CH9901	CH9901	CH9901	CH9901	CH9901	CH9901	111
CS-84	Heater, Engine Coolant, 1500W, Auto 120V	CH9902	CH9902	CH9902	CH9902	CH9902	CH9902	111
CS-85	Heater, Engine Coolant, Auto 240V	CH9903	CH9903	CH9903	CH9903	CH9903	CH9903	111
PA-93	Mounting, Inst. Panel (To Engine)	EG9907	EG9907	EG9907	EG9920	EG9920	EG9920	114
PA-87	Instrument Panel, 12V Complete	EG9928	EG9928	EG9928	EG9928	EG9928	EG9928	114
PA-94	Instrument Panel, 24V Complete	EG9930	EG9930	EG9930	EG9930	EG9930	EG9930	114
PA-88	Instrument Panel, 12V Basic	EG9929	EG9929	EG9929	EG9929	EG9929	EG9929	114
PA-98	Instrument Panel, 24V Basic	EG9931	EG9931	EG9931	EG9931	EG9931	EG9931	114
PA-90	Tachometer, 12V	EG9903	EG9903	EG9903	EG9903	EG9903	EG9903	114
EC-81	Shutdown Protection, 12/24V	EG9904	EG9904	EG9904	EG9904	EG9904	EG9904	114
PA-89	Throttle Cable	MS9901	MS9901	MS9901	MS9902	MS9902	MS9902	114
HP-81	Enclosure - Top & Rear Panel (Use w/Pedestal Feet)	HP9932	HP9933	HP9933	HP9934	HP9935	HP9935	134
HP-82	Side Panels	HP9929	HP9929	HP9929	HP9930	HP9930	HP9930	134
XS-82	Stack-Pipe and Rain Cap	PE9905	PE9906	PE9906	PE9905	PE9906	PE9906	130
XS-85	Mounting, Industrial Exhaust	PE9911	PE9904	PE9904	PE9911	PE9904	PE9904	132
XS-89	Mounting, Critical Exhaust	PE9907	PE9904	PE9904	PE9907	PE9904	PE9904	132
XS-83	Muffler, Industrial	MU9906	MU9906	MU9906	MU9906	MU9906	MU9906	132
XS-84	Muffler, Critical	MU9905	MU9902	MU9902	MU9902	MU9908	MU9911	132
ST-82	Battery (Free Standing)	SB9907	SB9907	SB9907	SB9908	SB9908	SB9908	—
ST-90	Battery Charger	SB9914	SB9914	SB9914	SB9914	SB9914	SB9914	140
ST-92	Battery Heater	SB9915	SB9915	SB9915	SB9915	SB9915	SB9915	—
	Final Inspection							

TIGHTENING TORQUE VALUES

Use these torque settings +/- 20% for all fasteners unless a specific torque setting is mentioned on the assembly drawing.

<u>SIZE</u>	<u>GRADE 2</u>	<u>GRADE 5</u>	<u>GRADE 8</u>
6-32	17 in. lb.		
8-32	20 in. lb.	20 in. lb.	
10-24	32 in. lb.	40 in. lb.	
1/4-20	70 in. lb.	115 in. lb.	165 in. lb.
1/4-28	85 in. lb.	140 in. lb.	200 in. lb.
5/16-18	150 in. lb.	20 ft. lb.	30 ft. lb.
3/8-16	260 in. lb.	35 ft. lb.	50 ft. lb.

Metric capscrews are identified by the grade number stamped on the head of the capscrew or on the surface of metric nuts. The higher the number, the greater the strength of the capscrew.

	<u>N.M.</u>	<u>(FT. LBS.)</u>
M6	11	(8)
M8	27	(20)
M10	55	(40)
M12	95	(70)

METRIC CAPSCREW NOMENCLATURE

M8 X 1.25 - 25

Length in millimeters

Distance between threads in millimeters

Major thread diameter in millimeters

Self-Tapping (Drill) Screws:

N.8	42 in. lbs.
1/4"	150 in. lbs. (12.5 ft. lbs.)

TEST PROCEDURE
B SERIES GENERATOR SETS

1. Fill and check oil and coolant level.
2. Visual check for loose bolts, connections; be sure generator load leads are tight, that the connection is protected from shorting. Check generator connections for required voltage.
3. Connect 12 volt battery.
4. Start engine and operate engine in the 800 to 1000 RPM speed range. Remove spring from throttle lever to idle unit. Check for leaks, check engine oil pressure and check for any other abnormal operation.
5. Adjust throttle lever high speed stop to obtain no load speed:

	<u>With No Electronic Gov.</u>	<u>With Electronic Gov.</u>
For 50 Hz	52.5 Hz or 1575 RPM	50 Hz or 1500 RPM
For 60 Hz	63.0 Hz or 1890 RPM	60 Hz or 1800 RPM

Connect spring to throttle lever to hold throttle lever at high speed stop.

6. Adjust voltage to rated voltage. (See operators manual for details.)
7. Apply 100% load to gen set. Speed should then be 50 or 60 Hz. If speed or frequency is less than 50 or 60, see manual instructions for fuel pump adjustments.
8. Check generator instruments compared to master instruments.
9. Check gen set operation at 1/4, 1/2, 3/4 and full load. Operation at full load for 15 minutes. Record gen set instruments at each load.
10. Operate at no load. Short high water safety control terminal to ground. Engine should shut down within 30 seconds.
11. Operate at no load, short low oil pressure safety control terminal to ground. Engine should shut down.

TEST DATE: _____
ENGINE SERIAL NO. _____

B SERIES GENERATOR SET TEST CARD

SET RATING: _____ KW at 50/60 Hz (Circle One)
_____ / _____ VOLTS, 1/3 PHASE (Circle One)

INCLUDES METER PANEL: YES/NO (Circle One)

		AC VOLTS			AC AMPS			Hz	WATER TEMP °F (°C)	OIL PRESSURE PSI	VOLTS DC
INSTRUMENT READING V MASTER INSTRUMENTS: + (-)											
LOAD		L ₁	L ₂	L ₃	L ₁	L ₂	L ₃				
%	RECORDED KW										
0		X									
1/4		X									
1/2		X									
3/4		X									
1		X									

OTHER CHECKS: Low oil pressure shutdown operational? _____

High water temperature shutdown operational? _____

Idle switch operational (manual controls only)? _____

Tester: _____

Signature: _____

PAINTING INSTRUCTIONS
B SERIES GENERATOR SET

One operator can work alone and perform the following operations:

1. Move generator set to paint booth.
2. Unwind block heater cord.
3. Spray unit with water (1).
4. Remove oil and exhaust marks with a rag, wash the unit and dry with an air hose.
5. Ensure the junction box end plate is not fitted.
6. Get and place bag over the end bracket of the generator.
7. Mask fuel injection pump data plate and turbocharger data plate (if turbo unit).
8. Mask engine data plate in front of fuel pump.
9. Mask fuse on junction box.
10. Mask meter box front.
11. Put heater cord in a bag.
12. Position respirator.
13. Paint unit Cummins beige (2 coats).
14. Remove respirator.
15. Rewind block heater cord.
16. Check paint quality.
17. Add "equipment ground," air filter decal, Cummins "C" decals, generator lifting eye warning decal, generator reconnection tag, and generator nameplate.
18. Remove from paint booth and complete upfit.

NOTE: (1) Use mineral spirits, fish-eye, lacquer thinner, or toluene where legally allowed.

TEST PROCEDURE
B SERIES POWER UNITS

1. Check oil and coolant level.
2. Visual check for loose bolts, connections.
3. Connect 12 volt battery.
4. Start engine and operate in the 800-1000 RPM range, check for leaks.
5. Check operation of gauges, including tachometer (when supplied).
Adjust tachometer using a hand held tachometer and a small screwdriver.
6. When safety shutdown is supplied:
 - (a) Short high water safety control terminal to ground. Engine should shut down.
 - (b) Short low oil pressure safety control terminal to ground.
Engine should shut down.

PAINT PROCEDURE -- B SERIES POWER UNITS

1. Spray the unit with water (1).
2. Remove oil and exhaust marks with a rag, wash the unit and dry with an air hose.
3. Mask fuel injection pump data plate and turbocharger data plate (if turbo engine).
4. Mask engine data plate in front of fuel pump and PTO clutch data plate
(when clutch supplied).
5. Paint unit Cummins beige (2 coats) and let dry.
6. Check paint quality.
7. Add "equipment ground," air filter decal, Cummins "C" decals.
8. Remove from paint booth and complete upfit.

NOTE: (1) Use mineral spirits, fish-eye, lacquer thinner or toluene where
legally allowed.

Engine Serial No. _____
 Model _____
 Inspector _____
 Date Inspected _____

FINAL INSPECTION CHECK LIST

		ACCEPT	REJECT
GENERAL			
Nuts and Bolts	Tight.....	☐	☐
Paint	Runs, drips, high paint, peeling, color match, rough paint.....	☐	☐
ENGINE			
Exhaust	Min. 1/4" clearance between pipe and housing roof.....	☐	☐
Intake	Min. 1/4" clearance between air cleaner inlet and housing roof.....	☐	☐
Injection Line	Nothing rubbing on lines.....	☐	☐
Drain Plug	Oil drain tight.....	☐	☐
Injection Pump	Nameplate unpainted.....	☐	☐
	Seal on high idle screw.....	☐	☐
Engine Breather Tube	Tape must be off tube before painting.....	☐	☐
Fuel Cap	Plastic cap must be on fuel lift pump inlet to avoid getting paint in the line.....	☐	☐
Wiring Harness	Routed properly, loom properly located.....	☐	☐
COOLING SYSTEM			
Fan	Min. 1/4" clearance between fan and shroud.....	☐	☐
Guards	Min. 1/4" clearance between radiator hoses and the engine.....	☐	☐
Radiator	Strap across front of radiator on sub-base units when the cowl is not fitted.....	☐	☐
	Radiator cap in place.....	☐	☐
	No damage to cooling fins.....	☐	☐
	Overflow hose routed properly.....	☐	☐
OTHER OPTIONS			
Air Cleaner	Decal and rain cap secure. Wing nuts on heavy duty air cleaners must be accessible.....	☐	☐
	Air cleaner screwed tight.....	☐	☐
Generator Junction Box	Min. 1/4" clearance between stator shell and junction box.....	☐	☐
Manual Start Controls (Gen Set)	Idle solenoid moves from low to high idle and without binding.....	☐	☐

ASSEMBLY PROCEDURE

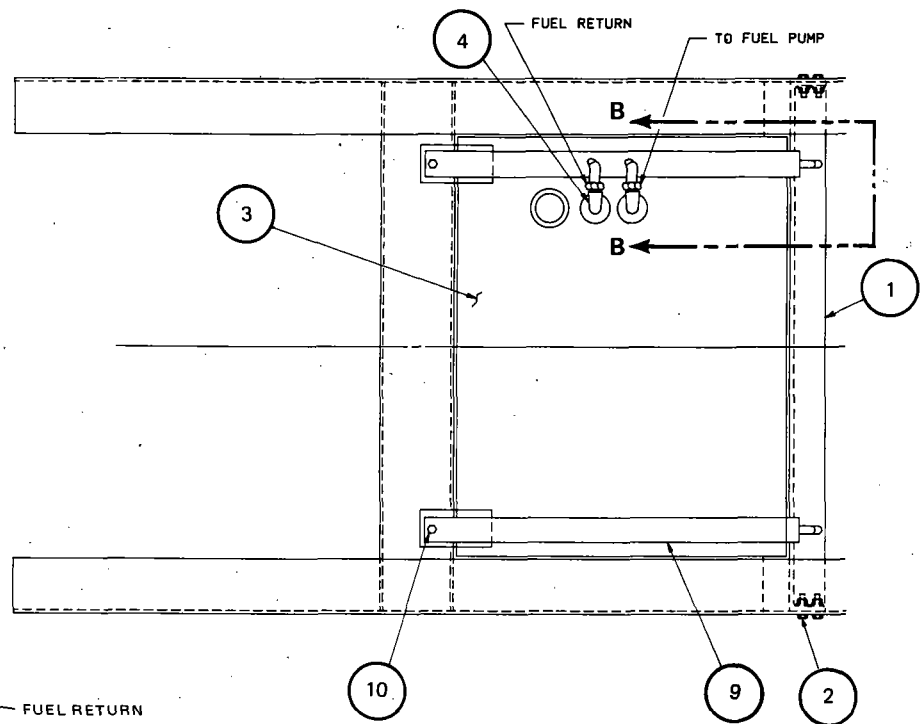
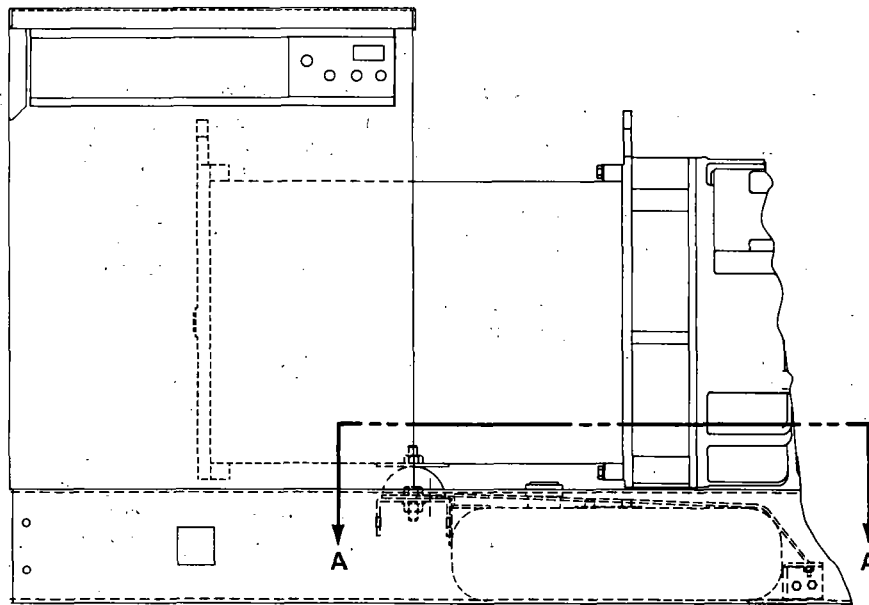
This bill of material is organized in the recommended order of assembly. The assembly number is shown on the drawing, is marked inside a circle and points to the detail of each part. Where the assembly pro-

cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

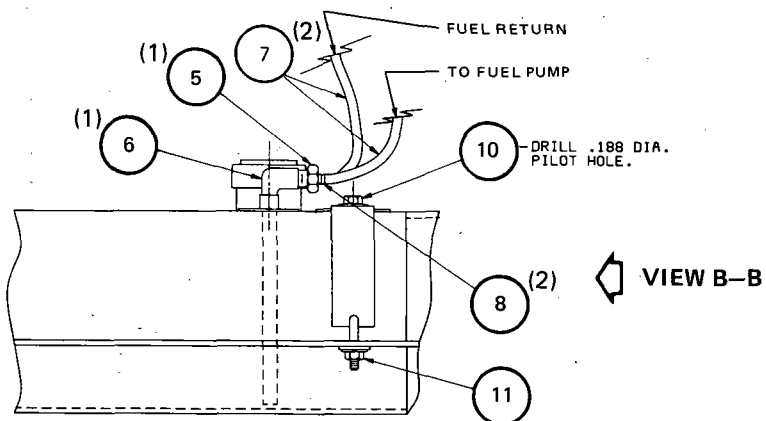
<u>ASSY NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>OPTION NO.</u> <u>FS-9901</u>
1	3903956	Bracket, Fuel Tank	1	x
2	3900223	Screw, Hexagon Head Cap, M6-1 x 25	4	x
	S600	Washer, Lock 1/4	4	x
	146157	Washer, Plain 1/4	4	x
	3905548	Nut, Regular Hexagon M6-1	4	x
3	3909859	Tank, Fuel	1	x
4	69319	Elbow, Plain Street Pipe	1	x
5(1)	3904900	Connector, Male	2	x
	3907937	Connector, Male	1	x
6(1)	3904000	Tube, Fuel Supply	1	x
7(2)	3907936	Tube, Fuel Supply	1	x
	3907938	Tube, Fuel Supply	1	x
8(2)	3904901	Clamp, Hose	4	x
9	3903957	Brace, Fuel Tank	2	x
10	S2267	Screw, Self Tapping Metal, 1/4	2	x
11	S600	Washer, Lock 1/4	2	x
	146157	Washer, Plain 1/4	2	x
	S224	Nut, Regular Hexagon, 1/4--20	2	x

NOTES:

- (1) Attach third hose connector with item 6 to fuel lift pump inlet on engine.
- (2) Attach item 7 to fuel return line on engine with clamp item 8, & to engine fuel lift pump with fuel supply tube item 6.



VIEW A-A



FUEL TANK ASSEMBLY
ref. 3904870

ASSEMBLY PROCEDURE

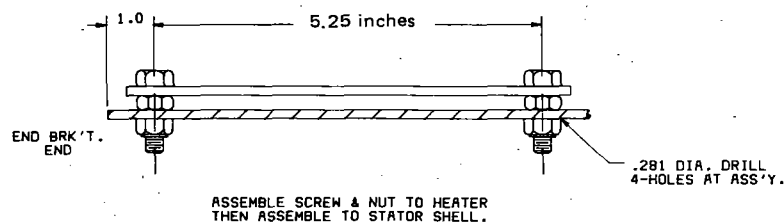
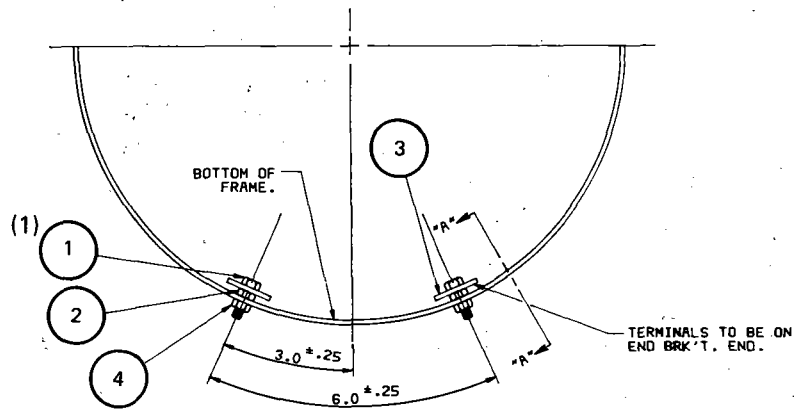
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cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

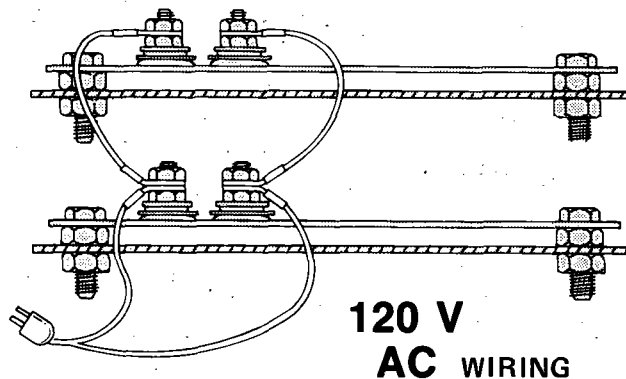
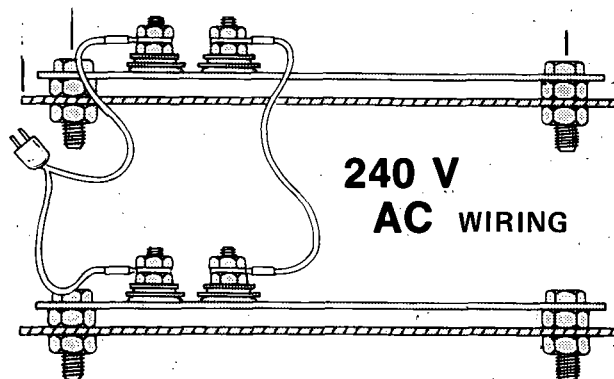
<u>ASSY NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>OPTION NO.</u> <u>EA-9901</u>
1(1)	S168C	Screw, Hex. Head Cap 1/4--20 x 1	4	x
2	S224	Nut, Regular Hexagon 1/4--20	4	x
3	3904926	Element, Heating	2	x
4	70398	Nut, Lock 1/4--20	4	x

NOTE:

- (1) Drill four 9/32" holes thru the generator stator shell, 2 holes 1 inch from the end bracket end, 3 inches each from the bottom and 2 holes 5.25 inches toward the far end (as per drawing). Assemble screw, item 1, and nut, item 2, to heater, item 3, then assemble to generator stator shell.



VIEW "A"-"A"



STRIP HEATER
ref. 3904869

ASSEMBLY PROCEDURE

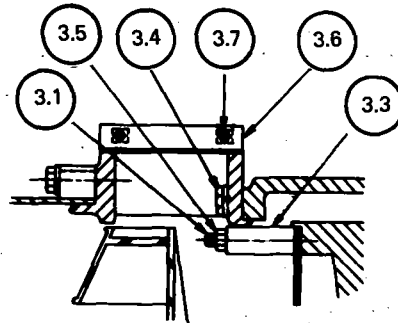
This bill of material is organized in the recommended order of assembly. The assembly number is shown on the drawing, is marked inside a circle and points to the detail of each part. Where the assembly pro-

cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

ASSY NO.	PART NO.	DESCRIPTION	QTY.	OPTION NO.									
				RB- 9902	RB- 9903	SA- 9901	SA- 9903	MG- 9901	MG- 9902	MG- 9903	MG- 9904	MG- 9906	
1.1(1)	3903684	Sub-Base, Generator Set	1	x									
	3903693	Sub-Base, Generator Set	1		x								
2.1	3905976	Support, Engine (L.H.)	1			x	x						
2.2	3905977	Support, Engine (L.H.)	1			x	x						
2.3	3905252	Isolator, Vibration	4			x	x						
2.4	3018671	Screw, Hex. Head Cap. M12-1.75 x 40				4	2						
		Screw, Hex. Head Cap. M12-1.75 x 77	2				x						
	S608	Washer, Lock 1/2	4			x	x						
	3902692	Nut, Regular Hexagon, M12-1.75	4			x	x						
2.4a	3904026	Spacer, Generator	1				x						
2.5	3901249	Screw, Hex. Head Cap, M12-1.75 x 25	8			x	x						
	S608	Washer, Lock 1/2	8			x	x						
	3902692	Nut, Regular Hexagon, M12-1.75	8			x	x						
2.6	3905253	Wire, Ground	1			x	x						
2.7	3905289	Connector, Cable	1			x	x						
2.8	3335041	Screw, Hex. Head Cap, M8-1.25 x 25	2			x	x						
	S604	Washer, Lock 3/8	2			x	x						
	S648	Washer, Plain 3/8	2			x	x						
	3009219	Nut, Regular Hexagon, M8-1.25	2			x	x						
2.9	3905290	Decal, Equip. Ground	1			x	x						
3.1	3905255	Stud, 3/8 -- 16	8				x	x	x	x	x		
3.2(2)	3905558	40KW Alt. Ass'y	1				x						
	3905559	50KW Alt. Ass'y	1					x					
	3909795	60KW Alt. Ass'y	1						x				
	3905950	80KW Alt. Ass'y	1							x			
	3909862	100KW Alt. Ass'y	1									x	
3.3	3905526	Spacer	8				x	x	x	x	x	x	
3.4	3900623	Screw, H.C.M10x1.5x30 (32 ft.lb.torque)	6				x	x	x	x	x	x	
	S604	Washer, Lock 7/16	6				x	x	x	x	x	x	
3.5	3009503	Nut, Hex 3/8--16 (torque to 36 ft. lbs.)	8				x	x	x	x	x	x	
3.6	3905527	Guard, Generator Fan	1				x	x	x	x	x	x	
3.7	3905528	Speed Clip	2				x	x	x	x	x	x	
		Screw, Hexagon H.C. #10--24 x 3/4	2				x	x	x	x	x	x	
3.8(3)	3909875	Junction Box Ass'y (See Dwg. 3907090)					x	x	x	x	x	x	
3.9	3904138	Voltage Regulator (See Dwg. 3904816)	1				x	x	x	x	x	x	
3.10	3909538	Screw, Drive	2				x	x	x	x	x	x	
	3906019	Plate, Name (Main Generator)	1				x	x	x	x	x	x	

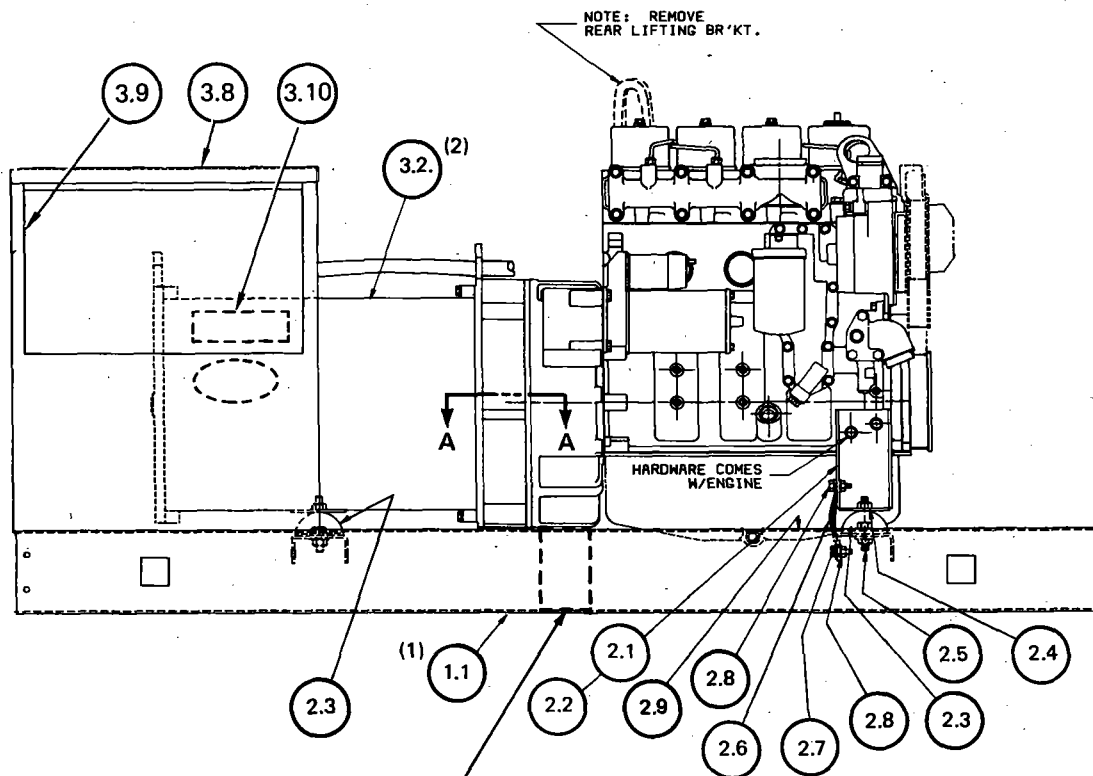
NOTES:

- (1) Mount vibration isolators, item 2.3 on engine supports, items 2.1, 2.2 and main generator with item 2.4. Torque items 2.4 and 2.5 to 58 ft. lbs. Then lower the base engine onto the skid, locating on the front cross member and rest the flywheel housing on a support 6-1/2 -- 8 inches tall between the rails. (Max. 18" long, min. 3" wide, suggest a piece of wood).
- (2) If a generator space heater is required, mount tin generator before assembling to the engine. To mount the generator to the engine, ensure the holes in the flexible disc are lined up with the studs in the flywheel and remove the generator fan guard, items 3.6 and 3.7. Lift the generator and push the flexible disc onto the studs, 3.1. Before pushing the generator fully against the engine, install the spacers 3.2. Then push the generator flexible plate fully onto the flywheel. Ensure the flywheel housing and generator casing are flush together and that the disc is correctly located in the flywheel and check for crankshaft end play of 0.004 - 0.011 inches with a dial indicator. Then tighten the flywheel housing to the generator casing with screws and washers, 3.4 to 32 ft. lbs. torque. Screw down the flexible plate with the hex. nuts, item 3.5 to 35 ft. lbs. torque and replace the fan guard. Remove the engine support prior to lowering the generator onto the sub base. For wiring reconnection instructions from 120/208V. and instructions on how to modify the generator set from 60 Hz to 50 Hz operation, see the following pages.
- (3) Place a bag or other object over the generator end plate, during painting (to stop paint entering inside the generator) and remove prior to installing the junction box end plate and panel.

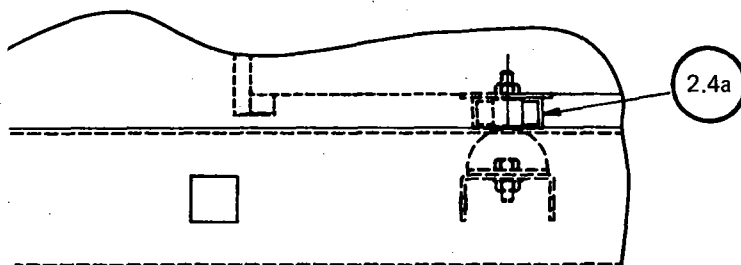


VIEW A-A

SHOWING GENERATOR ENGINE FLYWHEEL CONNECTION



NOTE: ENGINE SUPPORT USED WHILE MOUNTING GENERATOR TO ENGINE.



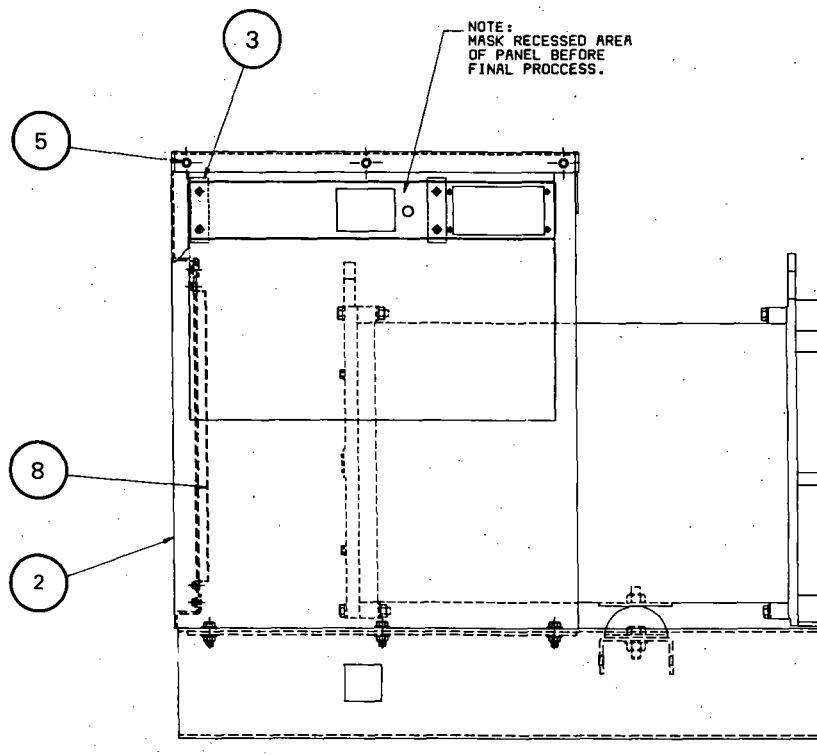
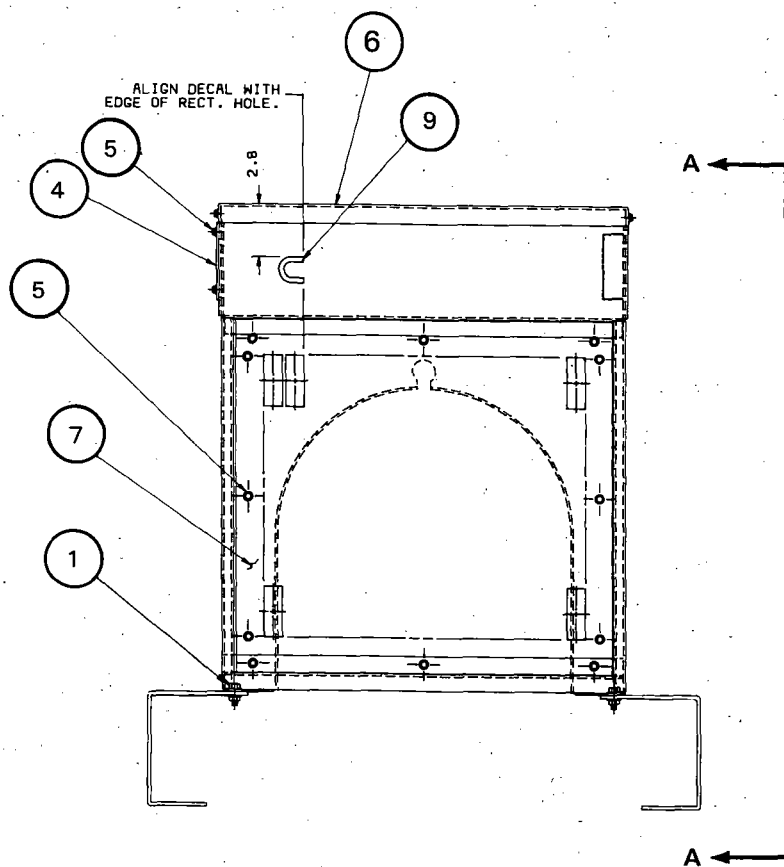
BASE/SUPPORTS/GENERATOR
ref. 3905292/5529/5948

ASSEMBLY PROCEDURE

This bill of material is organized in the recommended order of assembly. The assembly number is shown on the drawing, is marked inside a circle and points to the detail of each part. Where the assembly pro-

cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

<u>ASS'Y NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>OPTION NO.</u> <u>MG-9901/2/3/4/6</u>
1	3900623	Screw, Hexagon Head Cap, M10-1.5 x 20	6	x
	S604	Washer, Lock 7/16	5	x
	146162	Washer, Plain 3/8	5	x
		Washer, P.E. 7/16	2	x
2	3900503	Nut, Regular Hexagon M10-1.5	6	x
	3909875	Box, Junction 26" wide	1	x
	3907923	Box, Junction 26" wide	1	x
3	3907079	Bracket, Safety Control	2	x
4	3907080	Plate, Cover	1	x
5	3905545	Screw, Self-tapping Metal	38	x
6	3907925	Cover 22" x 26"	1	x
		Button Plug	1	x
		Button Plug	5	x
7	3907932	Panel, Outside	1	x
8	3907931	Plate, Inside	1	x
9	3905431	Cummins "C"	1	x



VIEW A-A

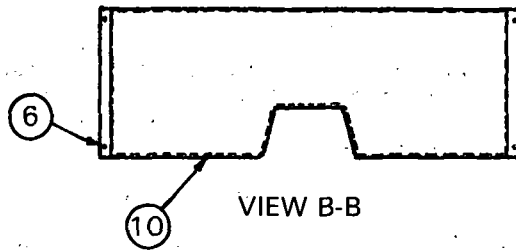
MAIN GENERATOR
JUNCTION BOX
ref. 3907090

ASSEMBLY PROCEDURE

This bill of material is organized in the recommended order of assembly. The assembly number is shown on the drawing, is marked inside a circle and points to the detail of each part. Where the assembly pro-

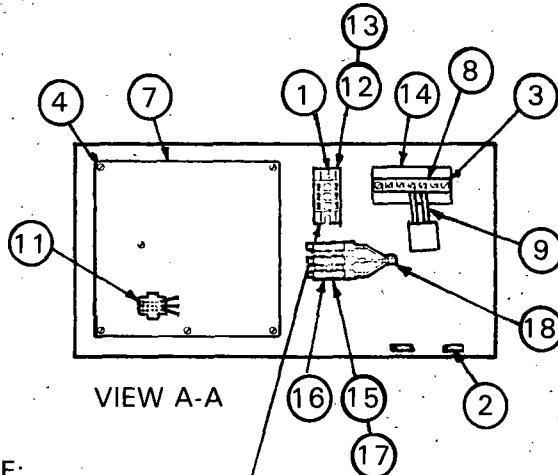
cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

ASS'Y NO.	PART NO.	DESCRIPTION	QTY.	OPTION NO. MG-9901/2/3/4/6
1	S692	Washer, Lock #8	2	x
	146162	Washer, Plain #8	2	x
	128021	Screw, Round Head Cap, #8-32 x 1/8	2	x
2	3905295	Clip	2	x
	3905296	Plug, Orifice	2	x
3	127814	Screw, Round Head Cap, #6-32 x 1/2	2	x
4	127007	Screw, Round Head Cap, #8-32 x 5/8	6	x
5	3905296	Plug, Orifice	6	x
6	3905545	Screw, Self Tapping Metal #8-18	4	x
7	3904138	Board, Circuit	1	x
8	3903974	Block, Terminal	1	x
9	3903979	Harness, Wiring	1	x
10	3904875	Cover, Control Cabinet	1	x
11	3904876	Harness, Wiring	1	x
12	3905298	Rectifier	1	x
13	3907902	Thermal Compound	1	x
14	3904928	Strip, Marker	1	x
15	3911020	Holder, Fuse	1	x
16	3911019	Fuse, Rectifier 8 Amp	3	x
17	3905551	Screw, RHM #6-32 x 3/8	2	x
18	3911021	Harness, Wiring	1	x



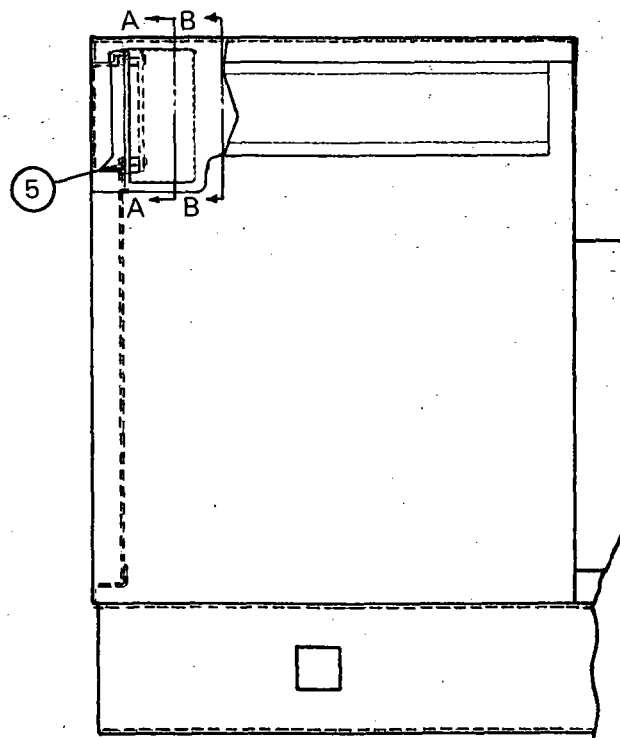
NOTES:

1. FOR WIRING DIAGRAM SEE 3905281
2. ITEMS 3, 8, 9, & 14 ARE TO BE USED WITH NON-KOHLER CONTROLLERS.



NOTE:

APPLY A THIN LAYER OF THERMAL COMPOUND TO MOUNTING SURFACE OF SCR MODULE 12 BEFORE INSTALLATION.



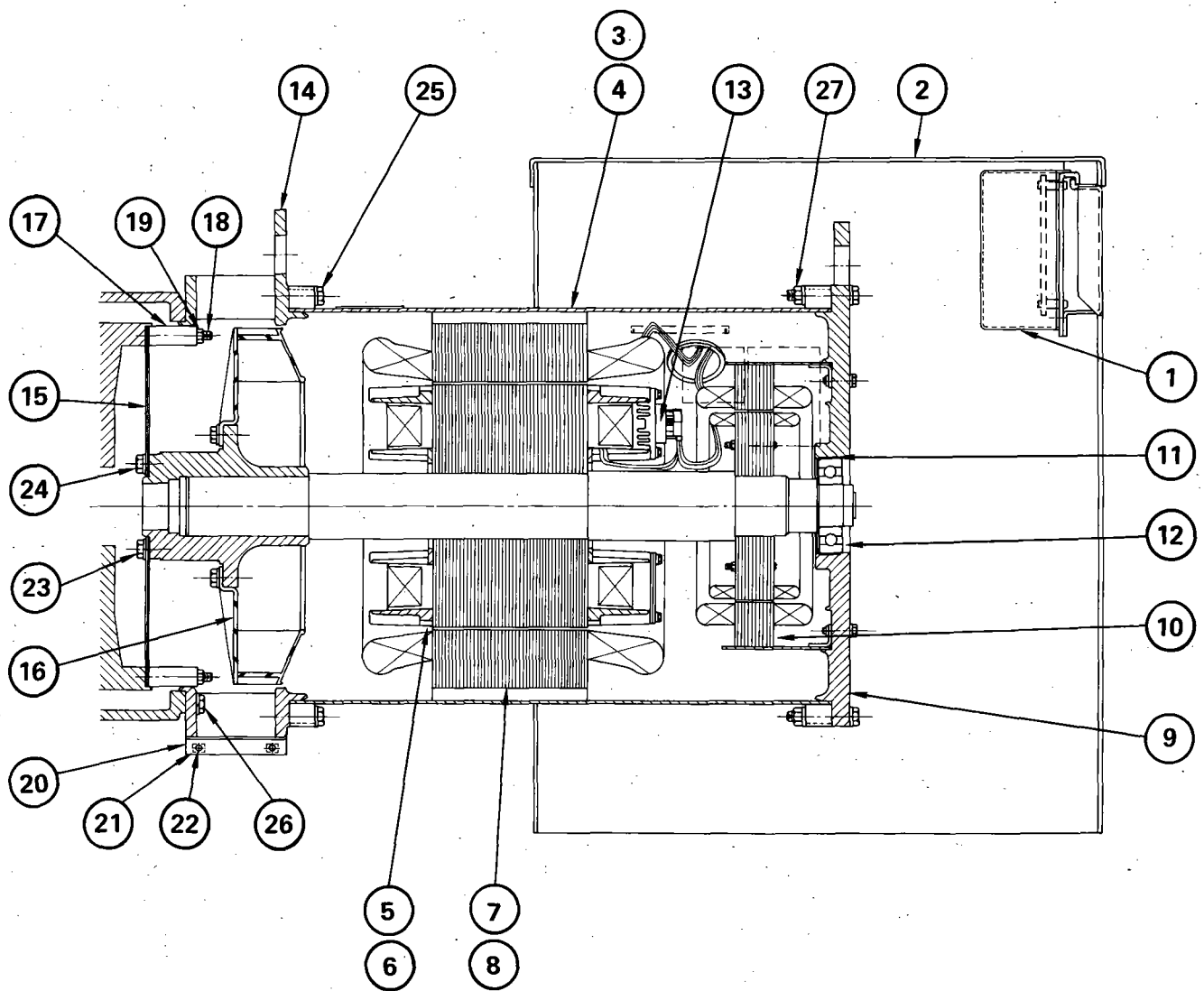
VOLTAGE REGULATOR KIT
ref. 3904816

ASSEMBLY PROCEDURE

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cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

ASS'Y NO.	PART NO.	DESCRIPTION	QTY.	REMARKS
1	3904816	Kit, Voltage Regulator	1	
2	3909875	Kit, Junction Box	1	
3/4	3905558	Main Generator, Assembly	1	40 Kw
	3905559	Main Generator, Assembly	1	50 Kw
	3909795	Main Generator, Assembly	1	60 Kw
	3905950	Main Generator, Assembly	1	80 Kw
	3909862	Main Generator, Assembly	1	100 Kw
5/6	3905519	Rotor, Assembly	1	50 Kw
	3905520	Rotor, Assembly	1	40 Kw
	3911049	Rotor, Assembly	1	60 Kw
		Rotor, Assembly	1	80 Kw
	3906022	Rotor, Assembly	1	100 Kw
7/8	3904880	Stator, Assembly	1	40 Kw
	3904881	Stator, Assembly	1	50 Kw
	3911050	Stator, Assembly	1	60 Kw
	3905953	Stator, Assembly	1	80 Kw
		Stator, Assembly	1	100 Kw
9	3904882	End Bracket	1	40/50/60 Kw
	3905954	End Bracket	1	80/100 Kw
10	3904878	Exciter, Field Assembly	1	40/50/60 Kw
	3905955	Exciter, Field Assembly	1	80/100 Kw
11	3904883	Ring, Tolerance	1	40/50/60 Kw
	3905956	Ring, Tolerance	1	80/100 Kw
12	3905521	Ball, Bearing	1	40/50/60 Kw
	3905957	Ball, Bearing	1	80/100 Kw
13	3905522	Rectifier, Assembly	1	40/50/60 Kw
	3905958	Rectifier, Assembly	1	80/100 Kw
14	3905523	Adapter, Generator	1	40/50/60 Kw
	3905959	Adapter, Generator	1	80/100 Kw
15	3905524	Armature, Drive Disc	2	40/50/60 Kw
	3905960	Armature, Drive Disc	3	80/100 Kw
16	3905525	Fan, Generator	1	40/50/60 Kw
	3905961	Fan, Generator	1	80/100 Kw
17	3905526	Spacer	8	
18	3905225	Stud	8	
19		Nut, Hex 3/8--16	8	
20	3905527	Guard, Generator Fan	1	40/50/60 Kw
	3905962	Guard, Generator Fan	1	80/100 Kw
21	3905528	Speed Clip	2	



GENERATOR SET NAMEPLATE MARKING

Mark the nameplate as shown and then pop-rivet to the front, right hand side of the junction box.

Gen Set Model
(eg. 4BTA3.9G.C.)

KW/KVa rating sold to customer.
(Standard ratings are shown below)

Mark amperage rating in the
Voltage/Cycle box to which
the generator set is tested and
connected. (Standard amperages
shown below.)

Battery Voltage

Cummins

MODEL

SERIAL NO.

SPEC.

GIVE ABOVE NUMBERS WHEN ORDERING PARTS

GENERATOR RATINGS

60 HZ 1800 RPM

30 @ 0.8 P.F.
KW KVA

10 @ 1.0 P.F.
KW KVA

VOLTAGE

HI WYE 416-480

LO WYE 208-240

DELTA 120/240

1 PHASE 120/240

AMPERES

50 HZ 1500 RPM

30 @ 0.8 P.F.
KW KVA

10 @ 1.0 P.F.
KW KVA

VOLTAGE

380-416

190-208

110/220

110/220

AMPERES

UNIT IS RECONNECTABLE TO ALL VOLTAGES WHERE AMPERES ARE INDICATED

ASSEMBLED BY

BATTERY VOLTS D.C. WT. LB./KG. CODE NO.

CUMMINS ENGINE COMPANY, INC., U.S.A.

Engine Serial Number

Distributor spec. number (or
order no.) for future reference
to configuration. Include MG,
SD, GW option numbers.

Name and address of upfitting
company.

Upfitter's distributor code no.

Generator set weight. (See
below for standard weight.)

GENERATOR SET WEIGHTS AND AMPERAGE AT STANDBY AND PRIME POWER RATINGS

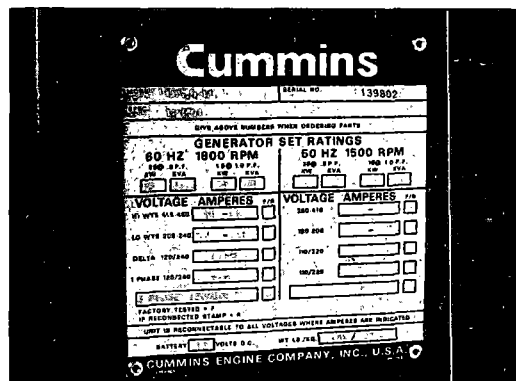
Engine		4B3.9	4BT3.9-1	4BT3.9-2	6BT5.9-1	6BT5.9-2
Main Generator Option		MG 9901	MG 9902	MG 9903	MG 9904	MG 9906
Ratings KW/KVa:	60 Hz: 3 Phase @ 0.8 pf	37/46	50/63	60/75	80/100	100/125
	1 Phase @ 1.0 pf	35/35	50/50	54/54	61/61	75/75
	50 Hz: 3 Phase @ 0.8 pf	33/41	40/50	50/62.5	65/81	85/106
	1 Phase @ 1.0 pf	33/33	40/40	45/45	55/55	65/65
Amperage:	60 Hz: Hi-Wye 416-480 Volts	64-65	84-75	104-90	139-120	173-150
	Lo-Wye 208-240 Volts	128-111	173-150	208-181	278-241	346-300
	Delta 120/240 Volts	111	150	181	241	300
	1 Phase 120/240 Volts	146	202	225	254	313
	50 Hz: Hi-Wye 380-416 Volts	63-57	76-69	95-87	124-113	161-147
	Lo-Wye 190-208 Volts	125-115	152-139	190-174	247-226	322-294
	Delta 110/220 Volts	108	131	164	213	278
	1 Phase 110/220 Volts	150	182	205	250	295
	Weights: lbs./Kg.	1499/657	1514/687	1725/783	1905/864	2116/960

GENERATOR OUTPUT LEAD CONNECTIONS

All loose main generators and most generator sets are connected by the factory for 60 Hz, 120/208, three phase output.

On factory assembled generator sets, refer to you generator set data tag to determine the output.

THE 600 VOLT GENERATOR SET IS NOT RECONNECTABLE.

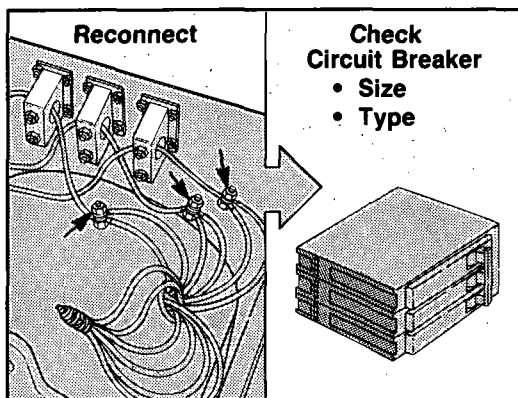


The generator set may be reconnected (four ways) to obtain another voltage and frequency. Reconnections will require the regulator and engine governor to be adjusted.

The following reconnections are possible:

Dog Leg				
60 Hz	120/240 Volts	Single Phase	3 Wire	
50 Hz	110/220 Volts	Single Phase	3 Wire	
Delta				
60 Hz	120/240 Volts	Three Phase	4 Wire	
50 Hz	110/220 Volts	Three Phase	4 Wire	
High Wye				
60 Hz	277/480 Volts	Three Phase	4 Wire	
60 Hz	240/416 Volts	Three Phase	4 Wire	
60 Hz	220/380 Volts	Three Phase	4 Wire	
50 Hz	220/380 Volts	Three Phase	4 Wire	
Low Wye				
60 Hz	240 Volts	Three Phase	3 Wire	
50 Hz	220 Volts	Three Phase	3 Wire	
60 Hz	120/208 Volts	Three Phase	4 Wire	
50 Hz	110/190 Volts	Three Phase	4 Wire	

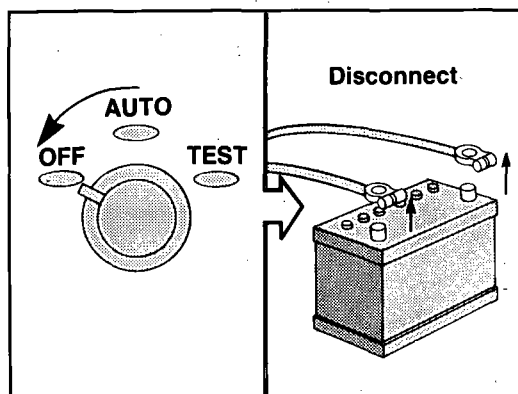
Voltages not listed have not been authorized or factory supplied. Contact an authorized service center for special reconnection voltages.



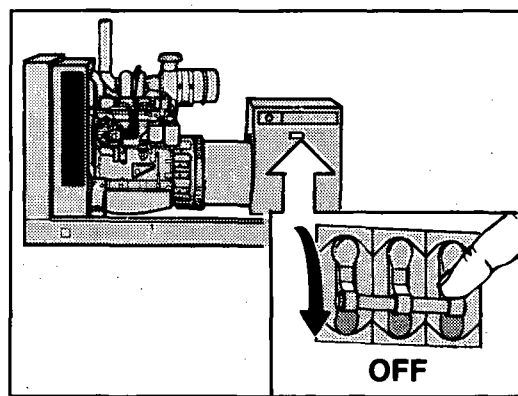
CHANGING OUTPUT VOLTAGE CONNECTIONS



Changing output voltage may require a smaller or larger circuit breaker. Verify the requirement before proceeding.

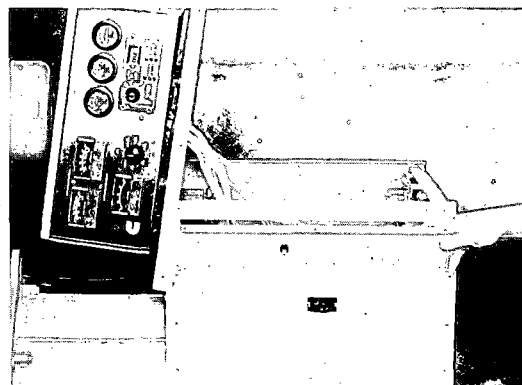


Be sure the battery is disconnected and the generator control is in the "OFF" position.

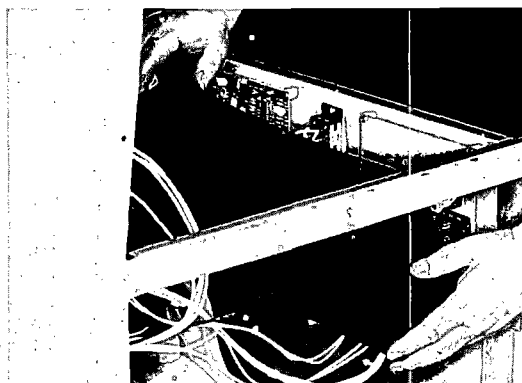


Verify that the generator set circuit breaker is open or in the "OFF" position.

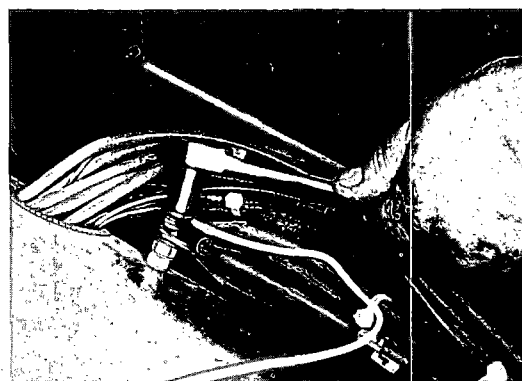
To gain access to the regulator, remove the conduit box side covers and lid if possible.

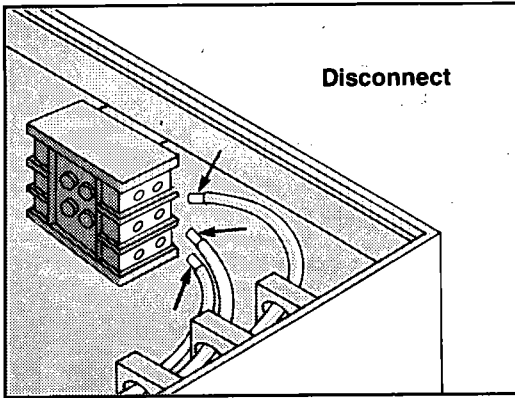


Remove the regulator protective cover.

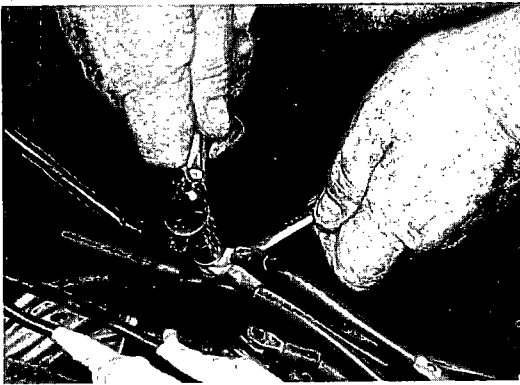


Disconnect the output leads from the generator ground terminal (L0).





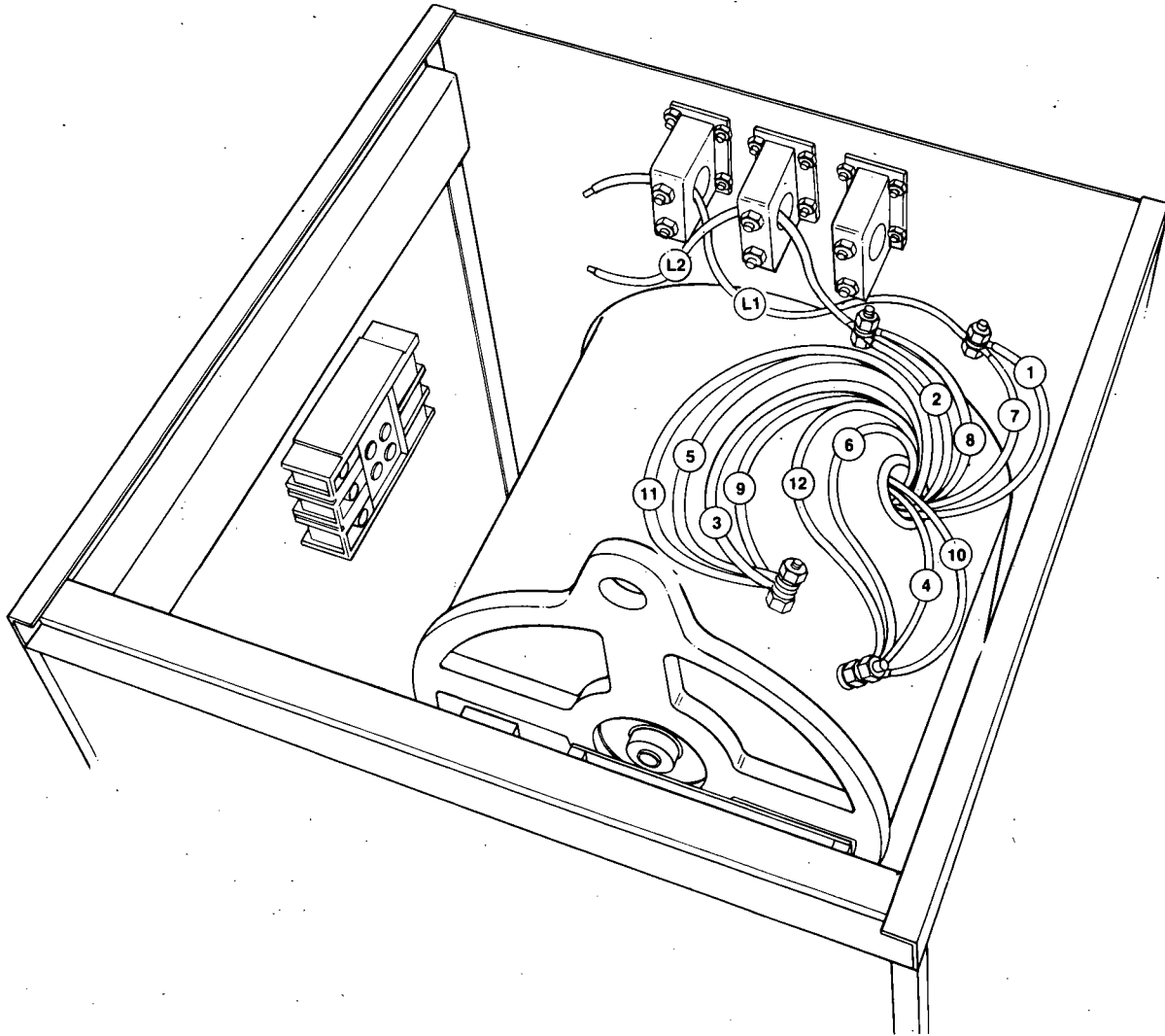
Disconnect the output leads (L1, L2, and L3) from the generator set circuit breaker.



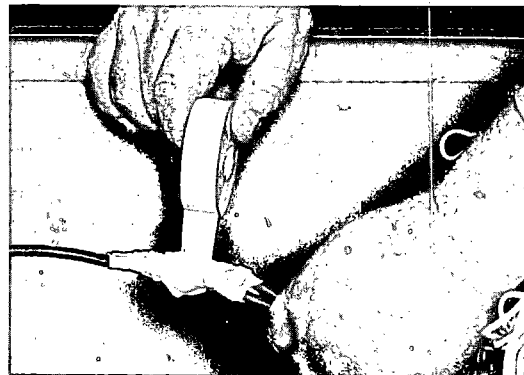
Remove the tape and disconnect all other generator lead connections.

DOG LEG, SINGLE PHASE RECONNECTION

Reconnect the leads as illustrated. Tighten all bolted connections securely.

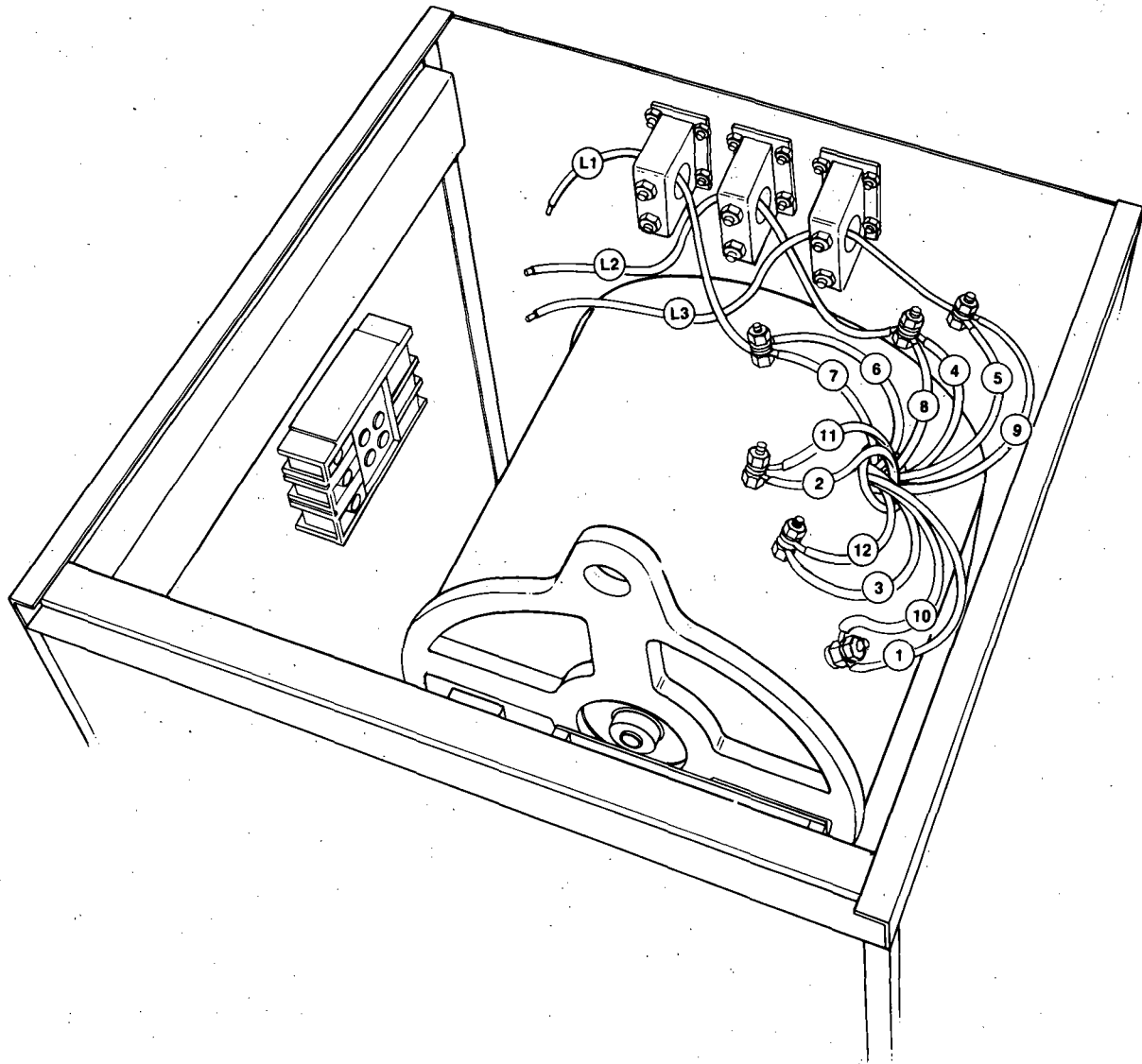


Insulate all bolted output lead connections with shrink tubing and electrical tape.



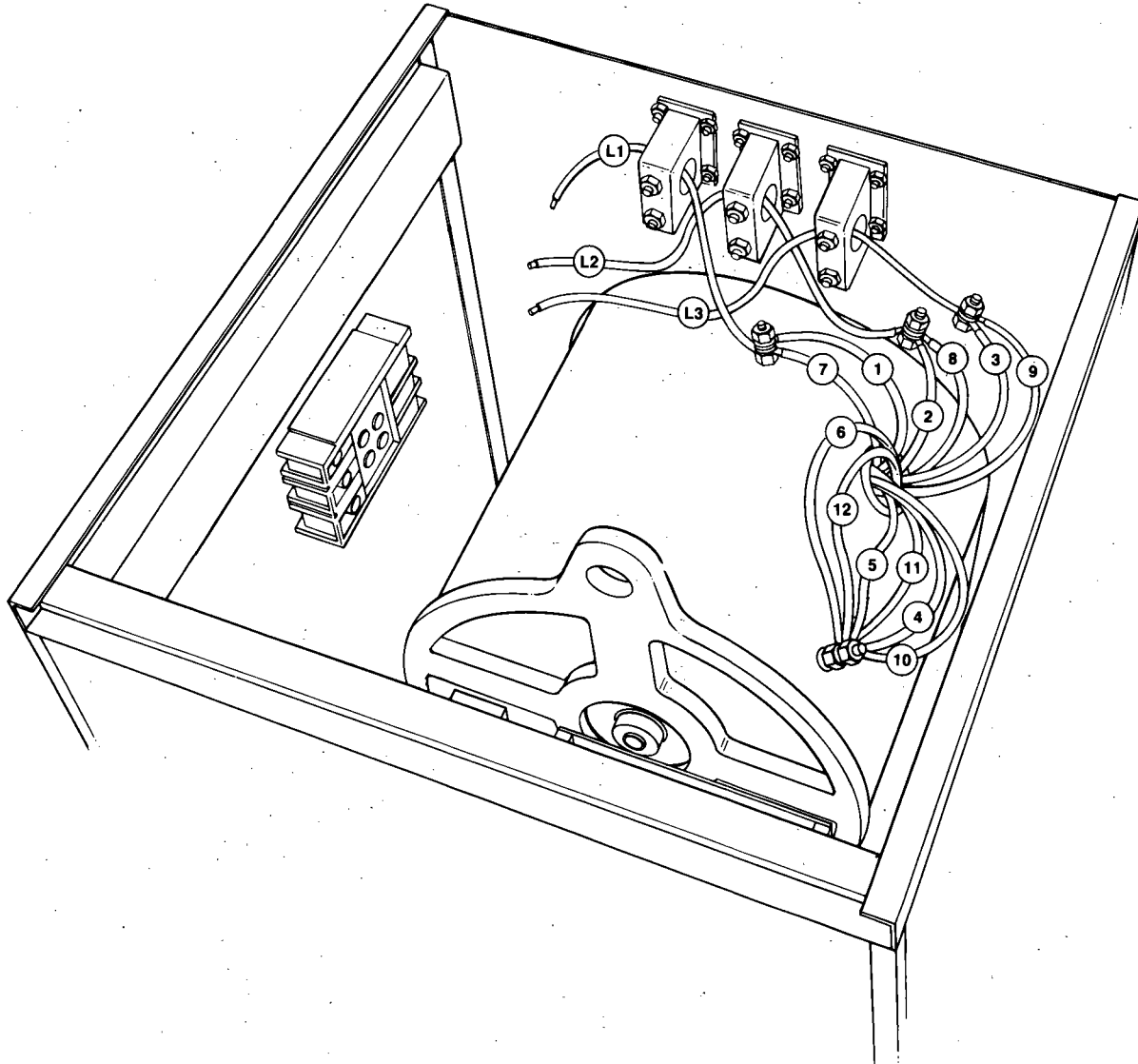
DELTA RECONNECTION

Reconnect the leads as illustrated. Tighten all bolted connections securely.



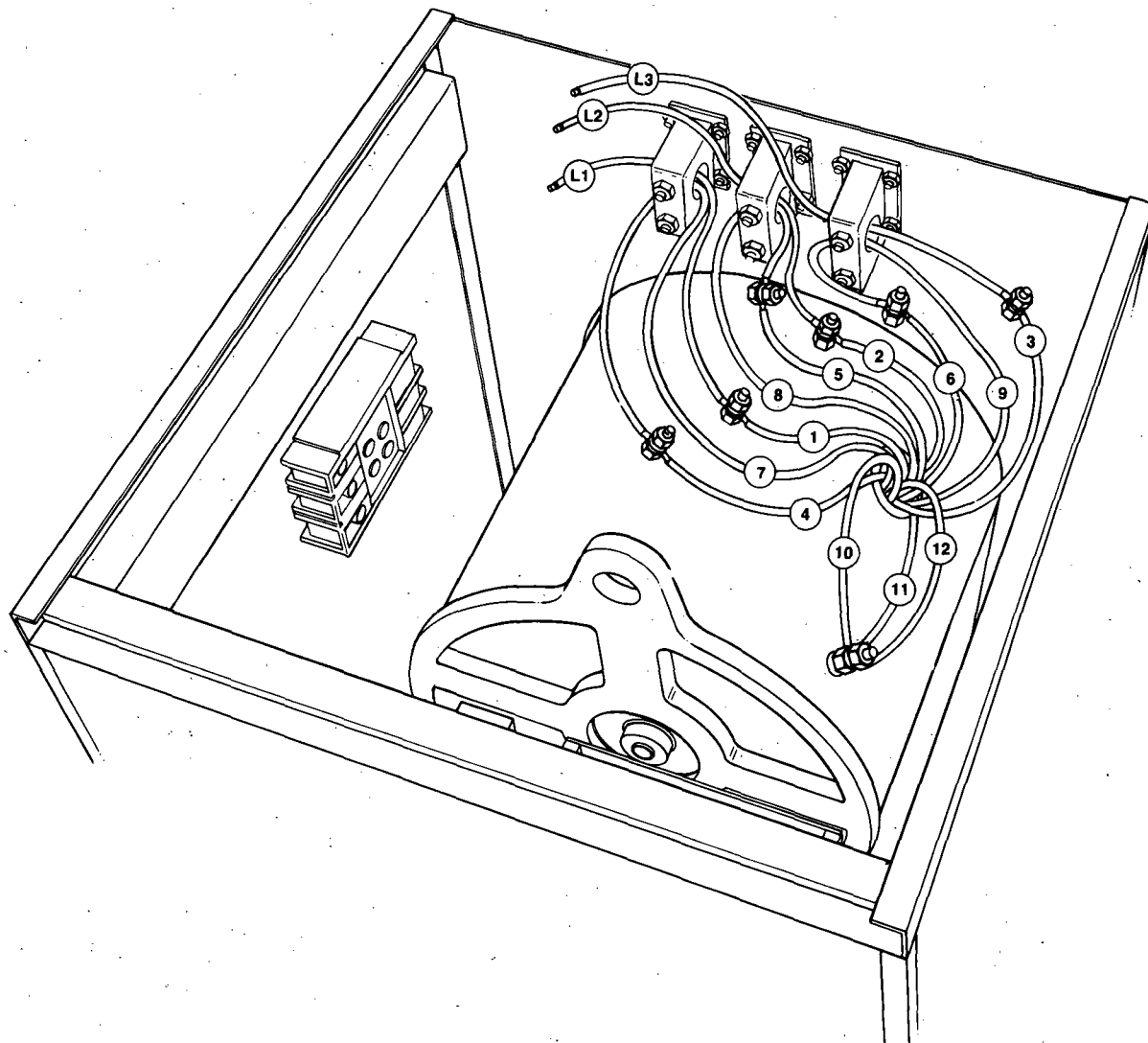
LOW WYE RECONNECTION (MAIN GENERATOR IS USUALLY WIRED FOR 120/208v.)

Reconnect the leads as illustrated. Tighten all bolted connections securely.



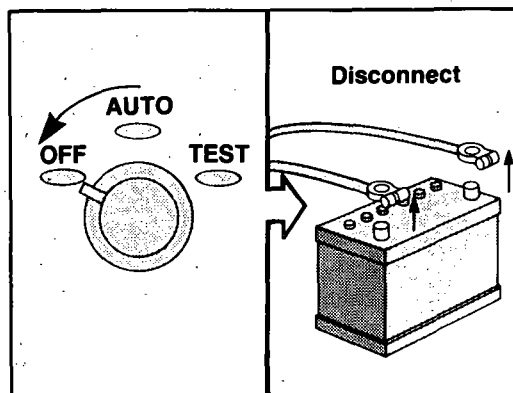
HIGH WYE RECONNECTION

Reconnect the leads as shown. Tighten all bolted connections securely.

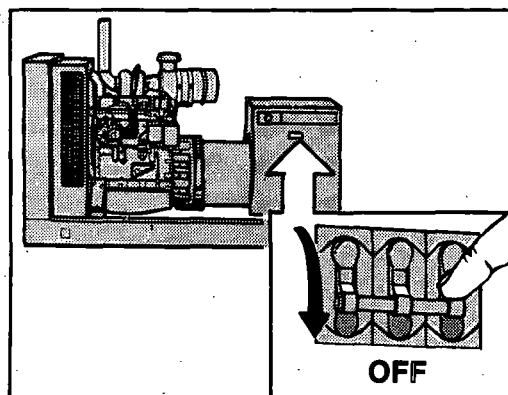


CHANGING THE OUTPUT FREQUENCY FROM 60 Hz to 50 Hz

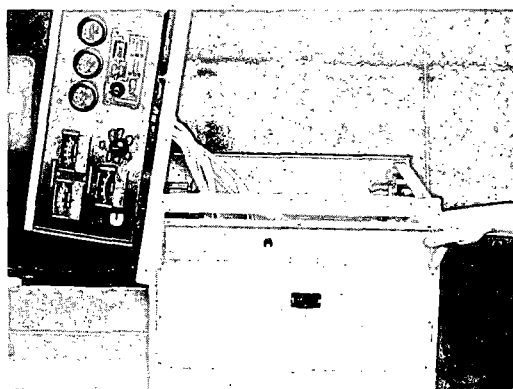
Place the generator set control in the "OFF" position
and disconnect the battery.

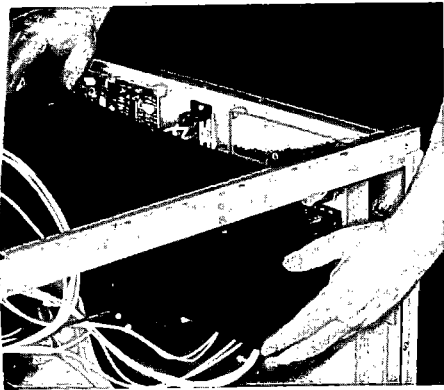


Open the generator set circuit breaker.

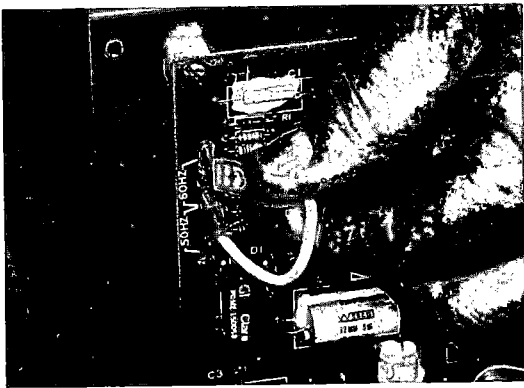


To gain access to the regulator, remove the conduit
box side covers and lid if possible.

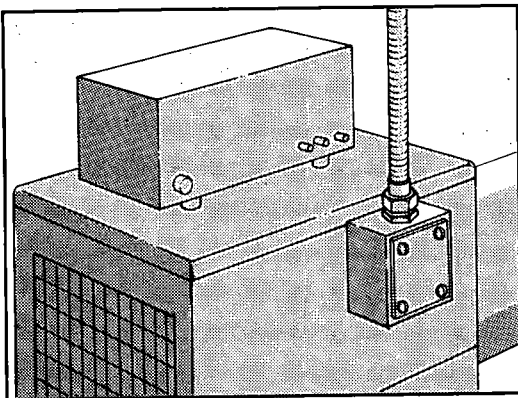




Remove the regulator protective enclosure.



Move the spade terminal to the desired frequency. (50 or 60 Hz) All loose generators are supplied set for 60 Hz operation. When converting to 50 Hz operation, the generator frequency and voltage regulator overspeed pot must be adjusted.



LOAD LINE CONNECTIONS

Load supply lines from the circuit breaker mounted in the conduit box, or lines to an externally mounted circuit breaker, should exit the conduit box from a junction box and a flexible connection.

CHANGING ENGINE SPEED FROM 1800 RPM TO 1500 RPM **(Governed speed for 50 Hz generator set)**

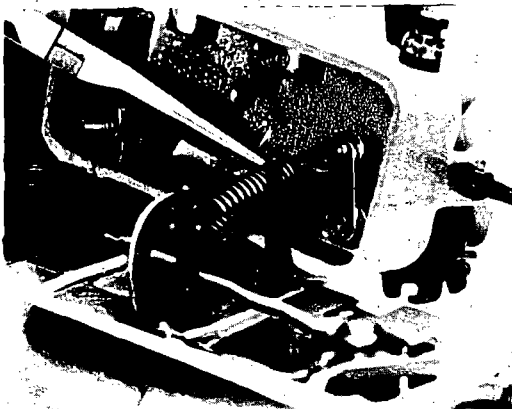
Note: These changes should be made once the unit is completely assembled and ready for operation.

WRENCH SIZE: 10mm



Remove high idle adjusting screw seal.

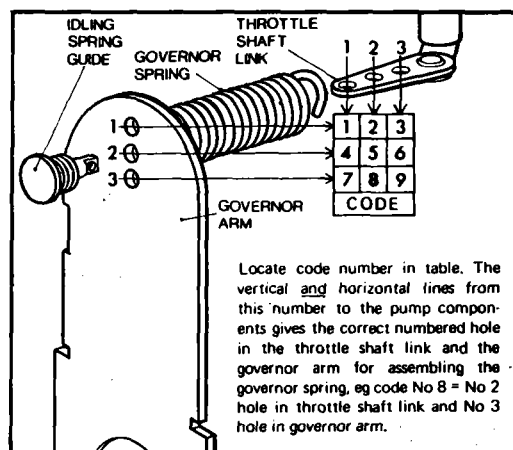
Remove governor cover retaining nuts.



Unhook governor spring from throttle shaft link.

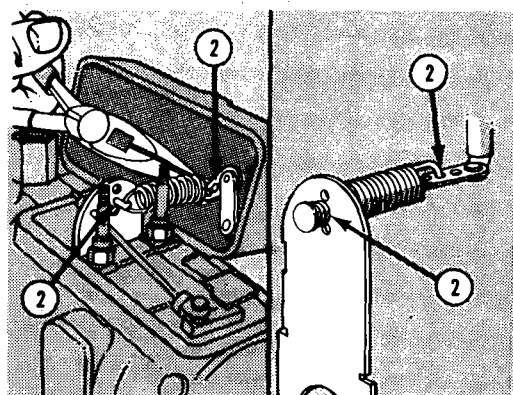
ADJUSTING THE GOVERNOR SPRING

When modifying a B series g-drive engine to run at 1500 rpe from an original factory setting of 1800 rpm (or vice-versa), the spring position has to be changed according to the chart below, and in the case of the 4BT3.9 engine the spring also have to be changes. This spring can be obtained from a C.A.V. distributor.



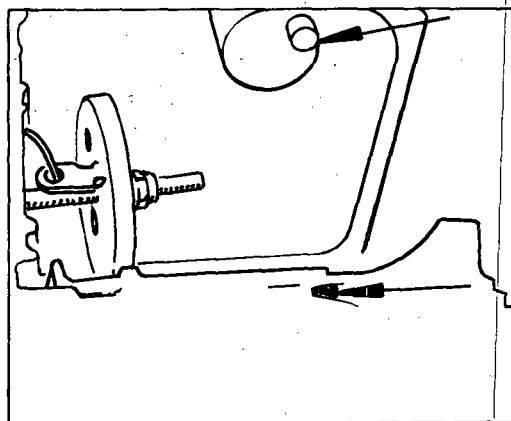
Application of Setting Code.

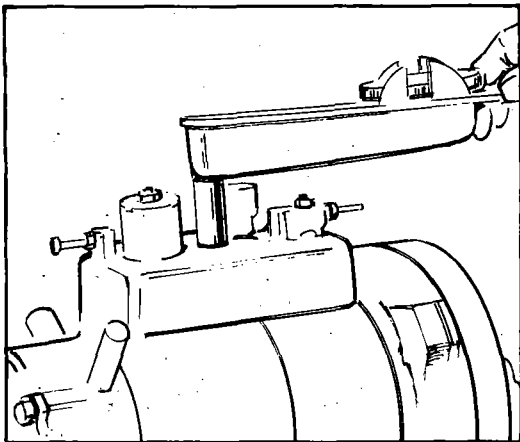
Engine	Hp.	Speed	C.A.V. Spring #	Code #	Spring Position	
					Gov. Arm	Throttle Shaft
4B3.9	52	1500	7123-898V	5	2	2
	66	1800	7123-898V	2	1	2
4BT3.9-1	71	1500	7123-898U	2	1	2
	86	1800	7123-898V	2	1	2
4BT3.9-2	87	1500	7123-898V	8	3	2
	102	1800	7123-898V	2	1	2
6BT5.9-1	113	1500	7123-898V	8	3	2
	135	1800	7123-898V	2	1	2
6BT5.9-2	143	1500	7123-898V	8	3	2
	166	1800	7123-898V	5	2	2



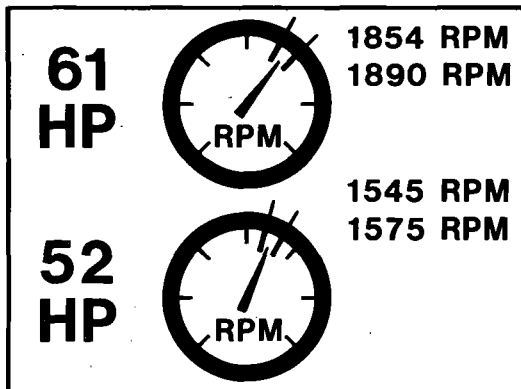
Example of 4B3.9 rated at 1500 rpm with the Spring in Code 5.

Reassemble governor cover and gasket. Take care to relocate shut down lever into position.





Tighten cover nuts to 4.5 N·m [40 in.-lbs.] and reseal.

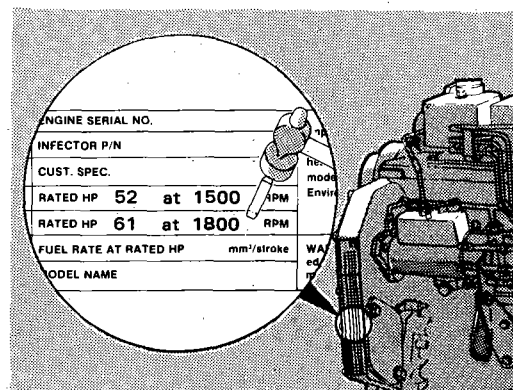


Refit pump to engine. With engine at normal operating temperature, adjust high idle to specified RPM. Reseal the high idle adjusting screw.

Restamp the fuel pump service setting code with the new governor spring code and the new high idle setting. For example, 4B3.9 setting code at 1800 RPM is A52L-750-2-1890 and should be changed to A52L-750-5-1570.

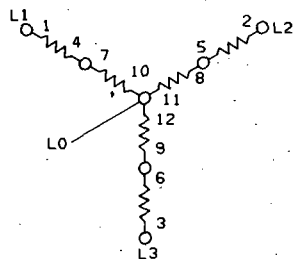
Restamp the engine data plate to identify the adjusted rating (e.g., 4B3.9, rating of 61 HP at 1800 RPM changes to 52 HP at 1500 RPM)

Restamp engine data plate to identify the adjusted rating.

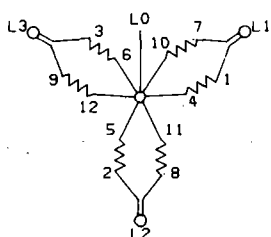


GENERATOR CONNECTIONS

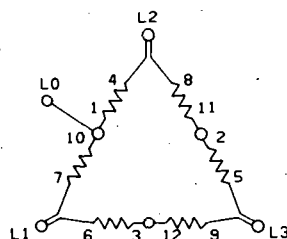
60HZ.-277/480V.-3 PH. 4 WIRE
50HZ.-220/380V.-3 PH. 4 WIRE



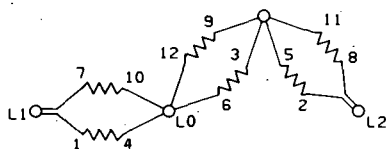
60HZ.-120/208V.-3 PH. 4 WIRE
60HZ.-240V.-3 PH. 4 WIRE
50HZ.-120/208V.-3 PH. 4 WIRE
50HZ.-110/190V.-3 PH. 4 WIRE



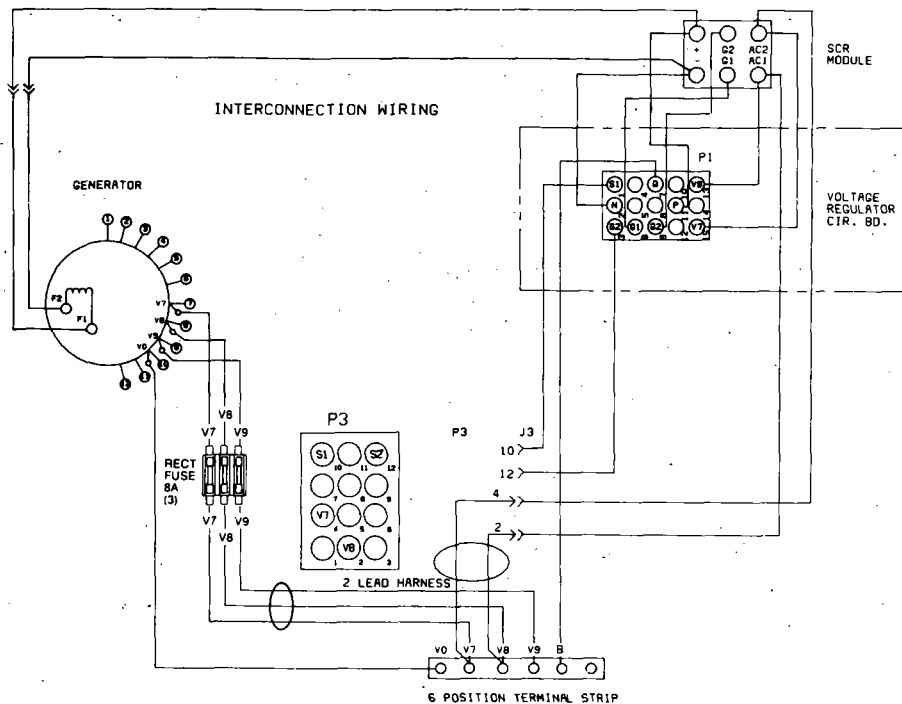
60HZ.-120/240V.-3 PH. 4 WIRE
50HZ.-110/220V.-3 PH. 4 WIRE



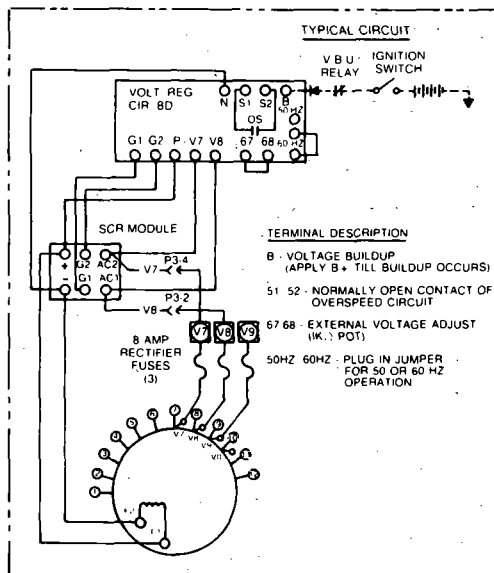
60HZ.-120/240V.-1 PH. 3 WIRE
50HZ.-110/220V.-1 PH. 3 WIRE



INTERCONNECTION WIRING



TYPICAL CIRCUIT



**B SERIES
WIRING DIAGRAM
3905281**

ALTERNATOR/REGULATOR

ASSEMBLY PROCEDURE

This bill of material is organized in the recommended order of assembly. The assembly number is shown on the drawing, is marked inside a circle and points to the detail of each part. Where the assembly pro-

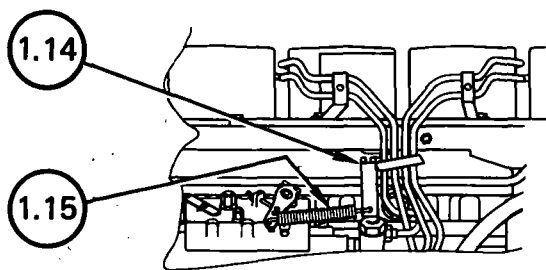
cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

ASS'Y NO.	PART NO.	DESCRIPTION	QTY.	OPTION NO.		
				SD- 9901	EG- 9905	EG- 9913
	3903981	Bracket, Relay	1	1.1		
	S608	Washer, Int./Ext. Tooth 1/2	1	1.2		
	3905547	Screw, H. C. M12-1.75 x 20	2	1.2		
	3904905	Solenoid, Starter	1	1.3		
	3905554	Screw, H.C. 1/4- 20 x 3/8	2	1.4		
	181466	Washer, Lock 1/4	4	1.4		
	146157	Washer, Plain 1/4	2	1.4		
	S224	Nut, Hex. 1/4-20	2	1.4		
	3905300	Switch, H.W.T.	1	1.5		
	3905299	Switch, L.O.P. (8 psi)	1	1.6		
	3905304	Holder, Fuse	1	1.7		
	3904615	Fuse	1	1.8		
	3905545	Screw, Drill 8-18	4	1.9		
	3903958	Panel, Auto Start Control	1	1.10(1)		
	3905296	Grommet, Plastic	4	1.11		
	127007	Screw, R.M.H. #8-32 x 5/8	4	1.11		
	3905302	Relay	1	1.13		
	3905515	Bracket, Spring	1	1.14		
	3900225	Screw, H.C. M8-1.25 x 16	2	1.14		
	3904807	Spring, Throttle (4 Cylinder Engines)	1	1.14		
	3905593	Spring, Throttle (6Cylinder Engines)	1	1.16		
	3904135	Wiring Harness, Man. or Auto Start	1		2.1(1)	2.1(1)
	S257	Nut, Hex #10 - 32	2	1.3		
	3904930	Mount, Vibration	1	1.4		
	3911063	Board, Control	1	1.12		
	3904611	Relay, CR/SDR	2	1.12		
	3904612	Relay, CR 120V	1	1.12		
	3911181	Panel, Front	1	1.10		
	3905545	Screw, Drill 8-18	4	1.10		
	3912282	Panel, Adapter	1	1.10		
	S636	Washer, Lock #6	4	1.10		
	S215-A	Nut, Hex #8-32	4	1.10		

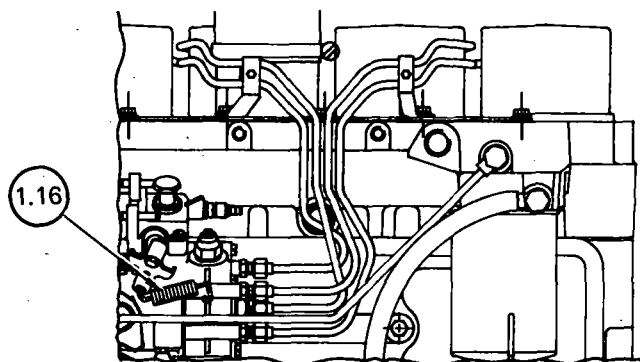
NOTES:

(1)

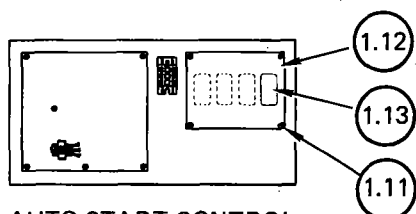
For engine wiring, use wiring harness EG 9905 (4B(T)(A)3.9 Engines) or EG 9913 (6B (T)(A) 5.9 Engines). See attached sheets for wiring instructions.



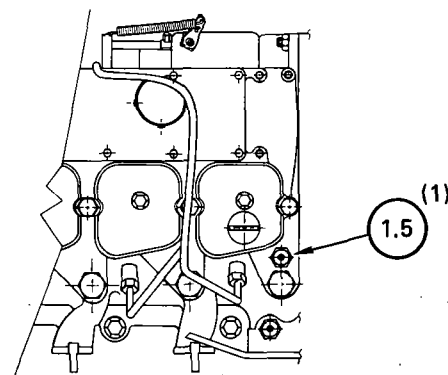
THROTTLE SPRING MTG.
(OIL FILL SIDE)
(AUTO START CONTROL)



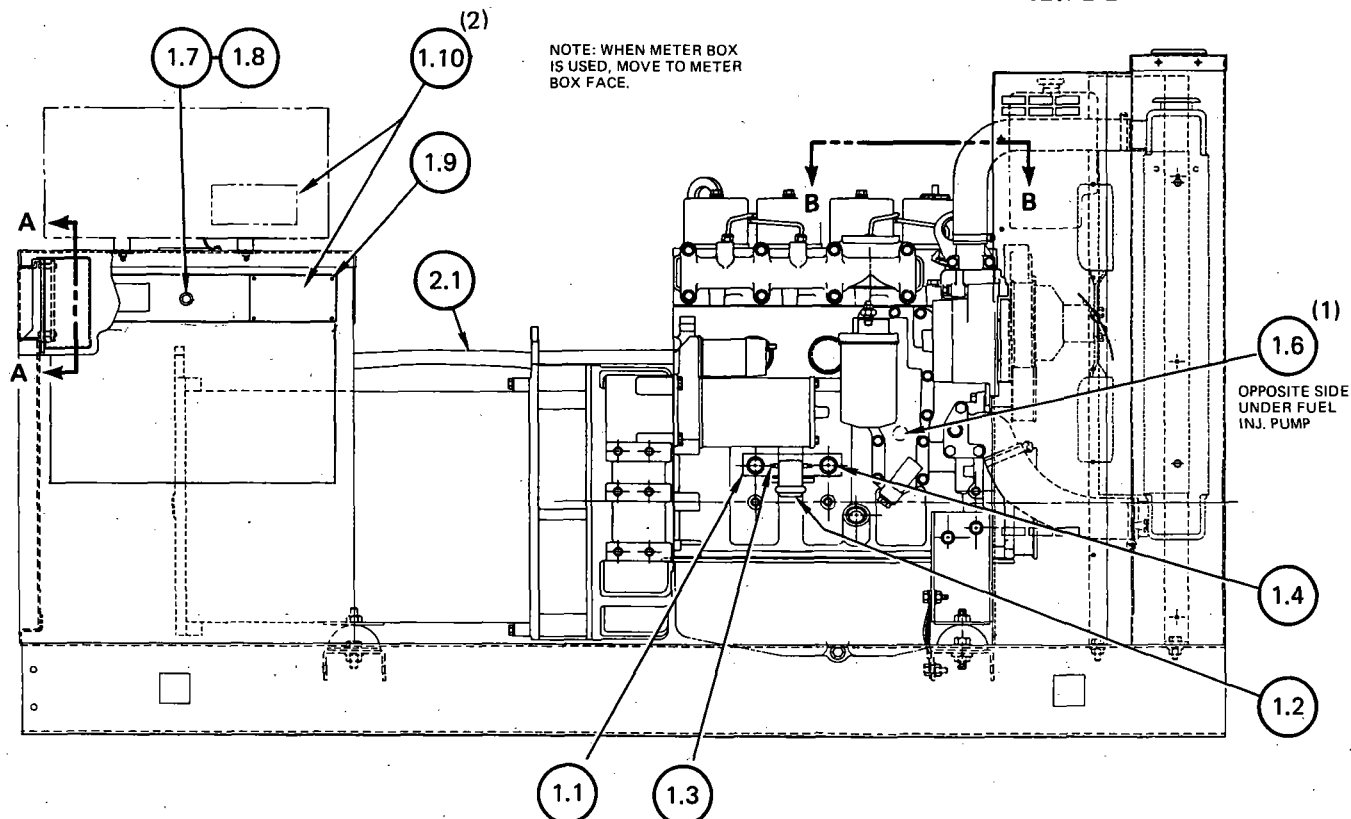
THROTTLE SPRING MOUNTING
(OIL FILL SIDE)



AUTO START CONTROL
VIEW A-A



H.W.T. SWITCH LOCATION
VIEW B-B



AUTOMATIC CONTROL PANEL
ref. 3904814/5584

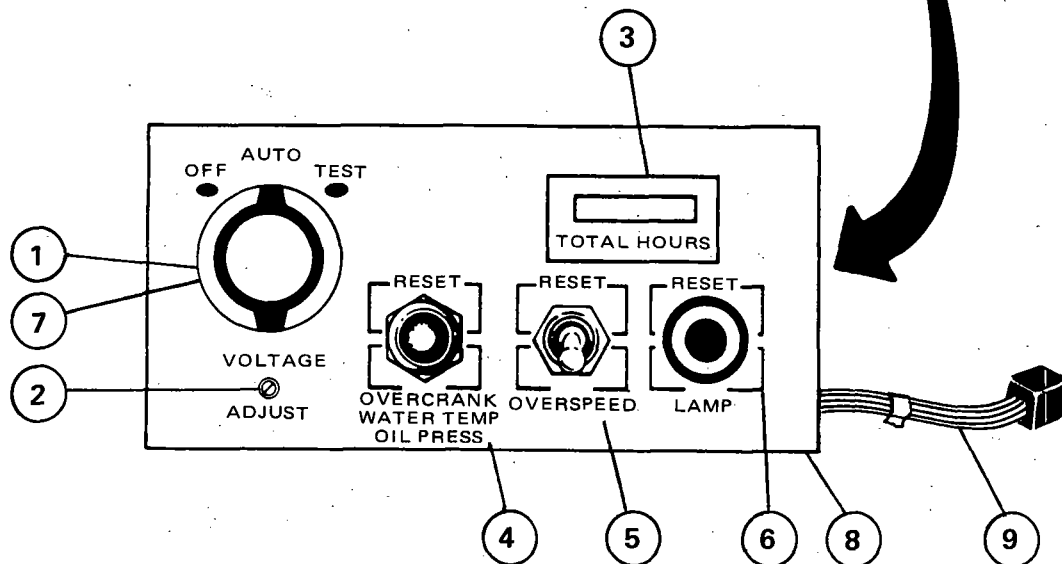
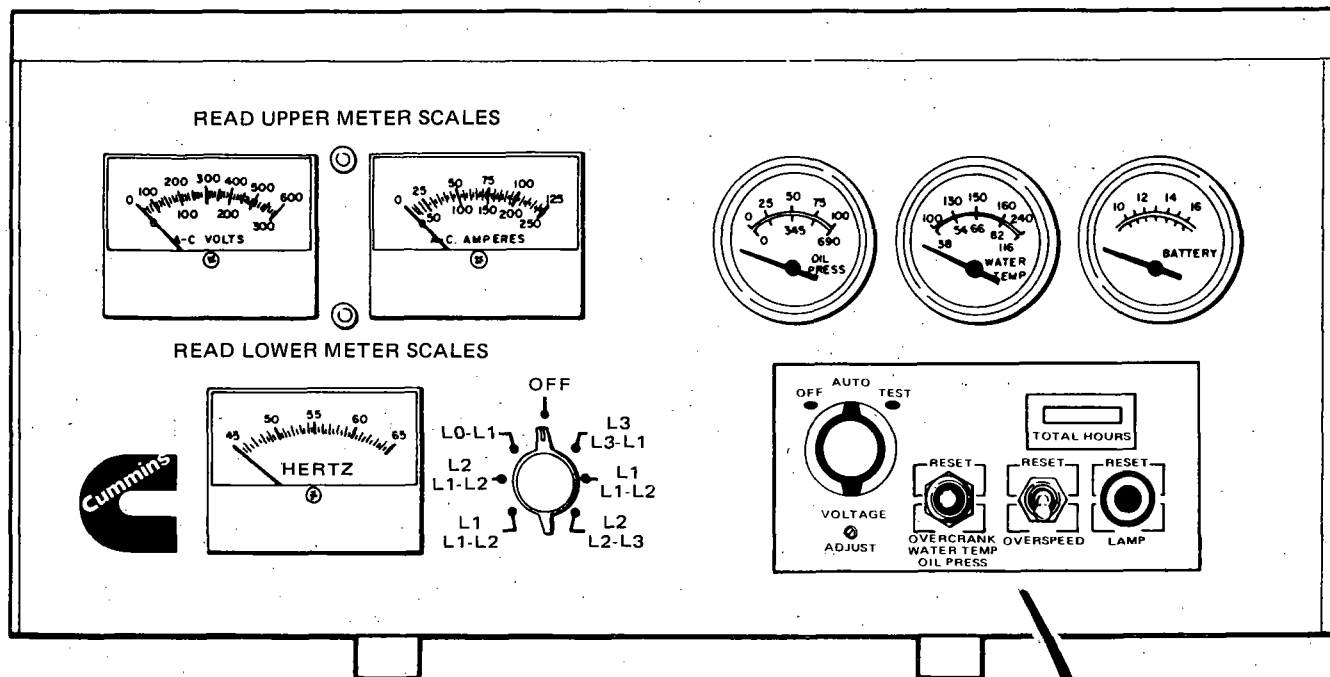
ASSEMBLY PROCEDURE

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cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

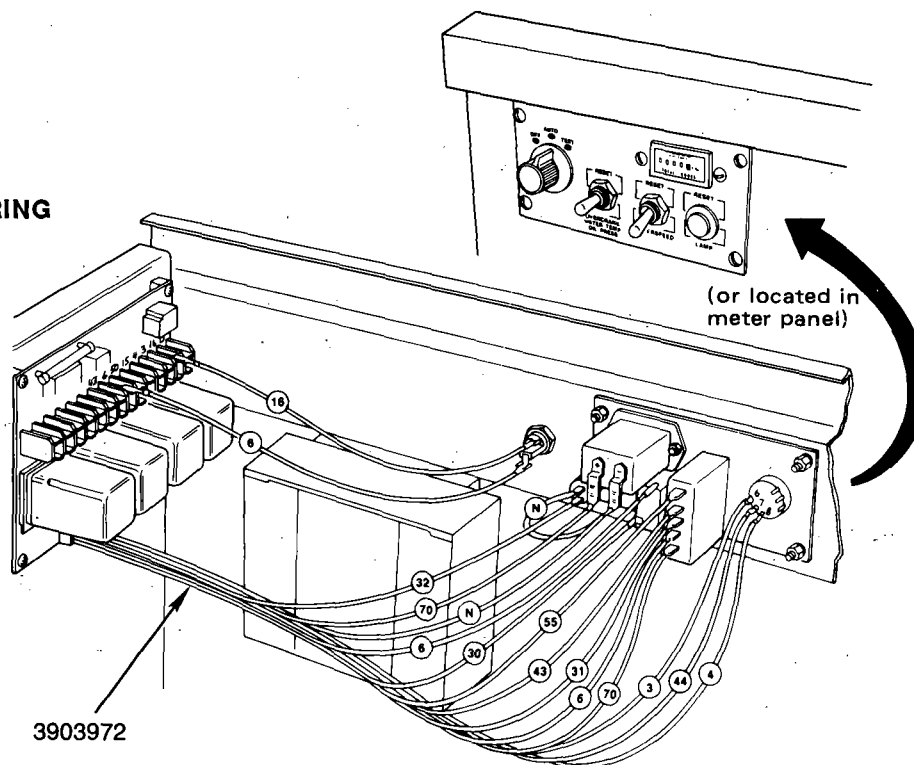
3906011 AUTOMATIC START CONTROL PANEL ASSEMBLY

<u>ASS'Y NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	3903952	Three (3) Position Switch
2	3904936	Adjustment Voltage
3	3904621	Hourmeter
4	3904622	Overcrank, Temp/Oil Reset Switch
5	3904625	Overspeed Reset Switch
6	3907117	Reset Lamp
7	3904895	Knob
8	3907118	Panel Face
9	3903972	Wiring Harness



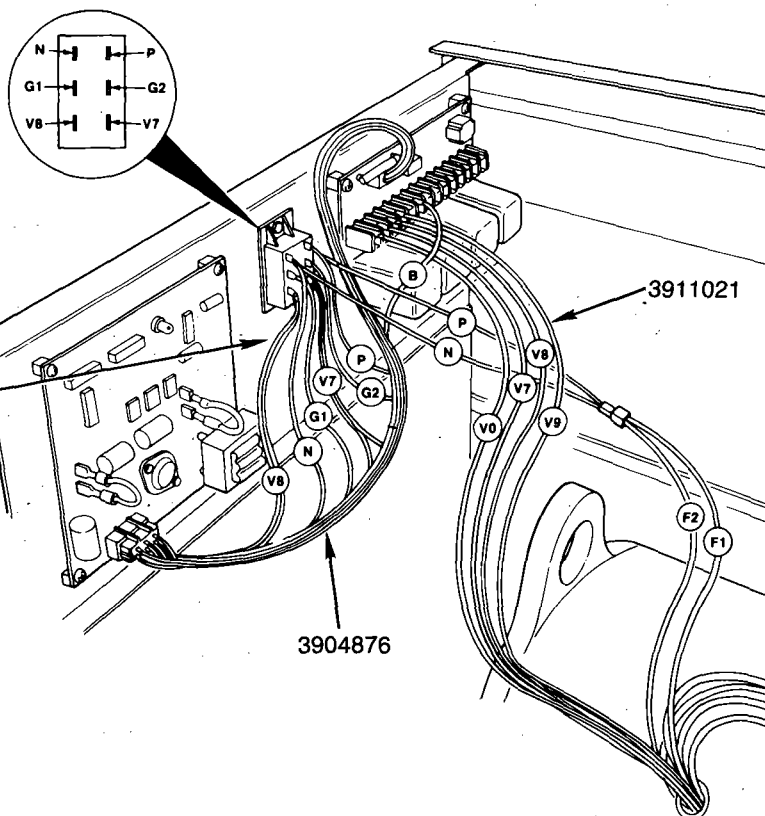
OPTION SD 9901: AUTOMATIC START CONTROL PANEL -- WIRING INSTRUCTIONS
Connect the wiring as illustrated after all hardware is attached.

**1) CONTROL BOARD TO
 CONTROL PANEL WIRING**



**2) GENERATOR TO CONTROL
 BOARD, CONTROL BOARD TO
 REGULATOR BOARD WIRING**

3911020 Fuse Block (1)
 3911019 8 AMP Rectifier Fuse (3)
 Not shown, but located
 below the SCR.



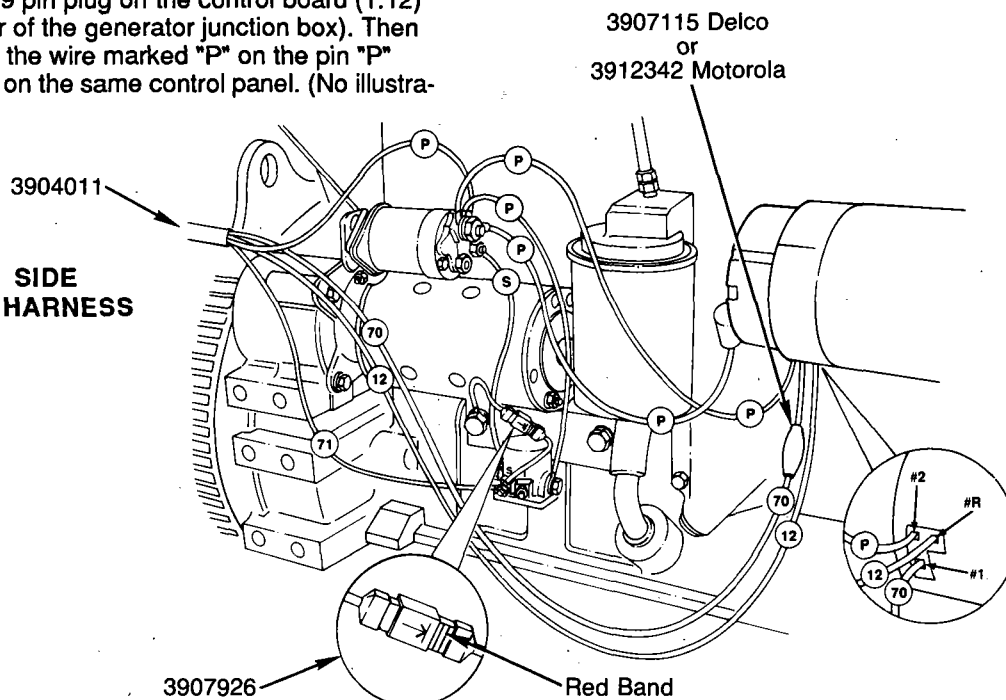
**OPTION EG 9905 & EG 9913: ENGINE WIRING HARNESS
FOR USE WITH MANUAL OR AUTOMATIC START CONTROL PANELS
WIRING TO AUTOMATIC START CONTROLS SD 9903**

Connect the wiring as illustrated, after the control panel assembly is fully installed.

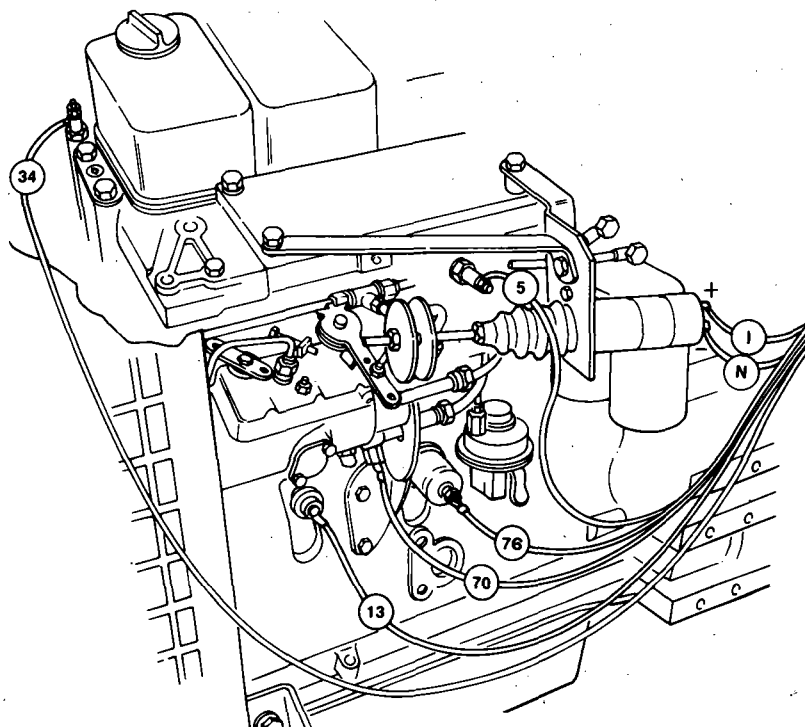
STEP (1) WIRING TO THE CONTROL PANEL

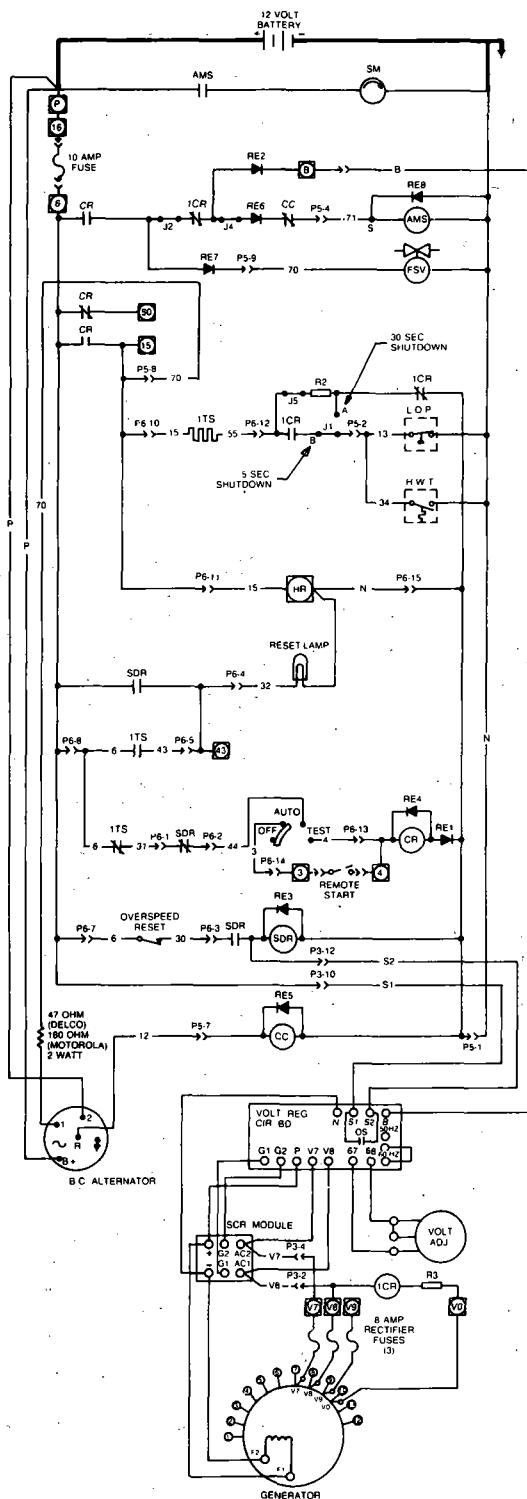
Place the wiring harness through the junction box hole at the front and fix the large grommet in place. Join the wiring harness plug to the 9 pin plug on the control board (1.12) (attached to the rear of the generator junction box). Then push the terminal of the wire marked "P" on the pin "P" on the terminal strip on the same control panel. (No illustration shown).

**STEP (2) RIGHT SIDE
ENGINE WIRING HARNESS**



**STEP (3) LEFT SIDE
ENGINE WIRING HARNESS**



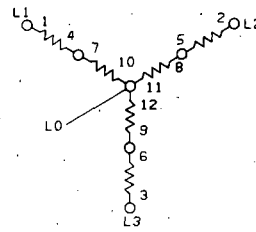


LEGEND

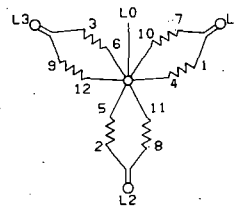
HR - HOUR METER
 FSV - FUEL SOLENOID VALVE
 RL - RESET LAMP
 AMS - AUXILIARY MAGNETIC SWITCH
 SS - STARTING SOLENOID
 SM - STARTER MOTOR
 B.C. - BATTERY CHARGING ALTERNATOR
 L.O.P. - LOW OIL PRESSURE SWITCH
 H.W.T. - HIGH WATER TEMPERATURE SWITCH
 CT1 - CT3 - CURRENT TRANSFORMERS
 CR - IGNITION RELAY
 ICR - CRANK DISCONNECT RELAY
 CC - SECONDARY CRANK DISCONNECT RELAY
 ITS - THERMAL TIME DELAY RELAY
 SDR - OVERSPEED SHUTDOWN RELAY

GENERATOR CONNECTIONS

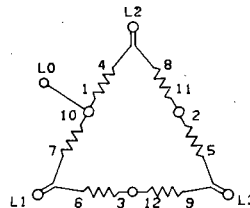
60HZ.-277/480V.-3 PH. 4 WIRE
 50HZ.-220/380V.-3 PH. 4 WIRE



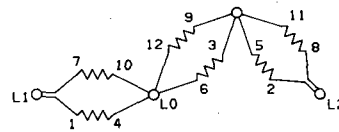
60HZ.-120/208V.-3 PH. 4 WIRE
 60HZ.-240V.-3 PH. 4 WIRE
 50HZ.-120/208V.-3 PH. 4 WIRE
 50HZ.-110/190V.-3 PH. 4 WIRE



60HZ.-120/240V.-3 PH. 4 WIRE
 50HZ.-110/220V.-3 PH. 4 WIRE

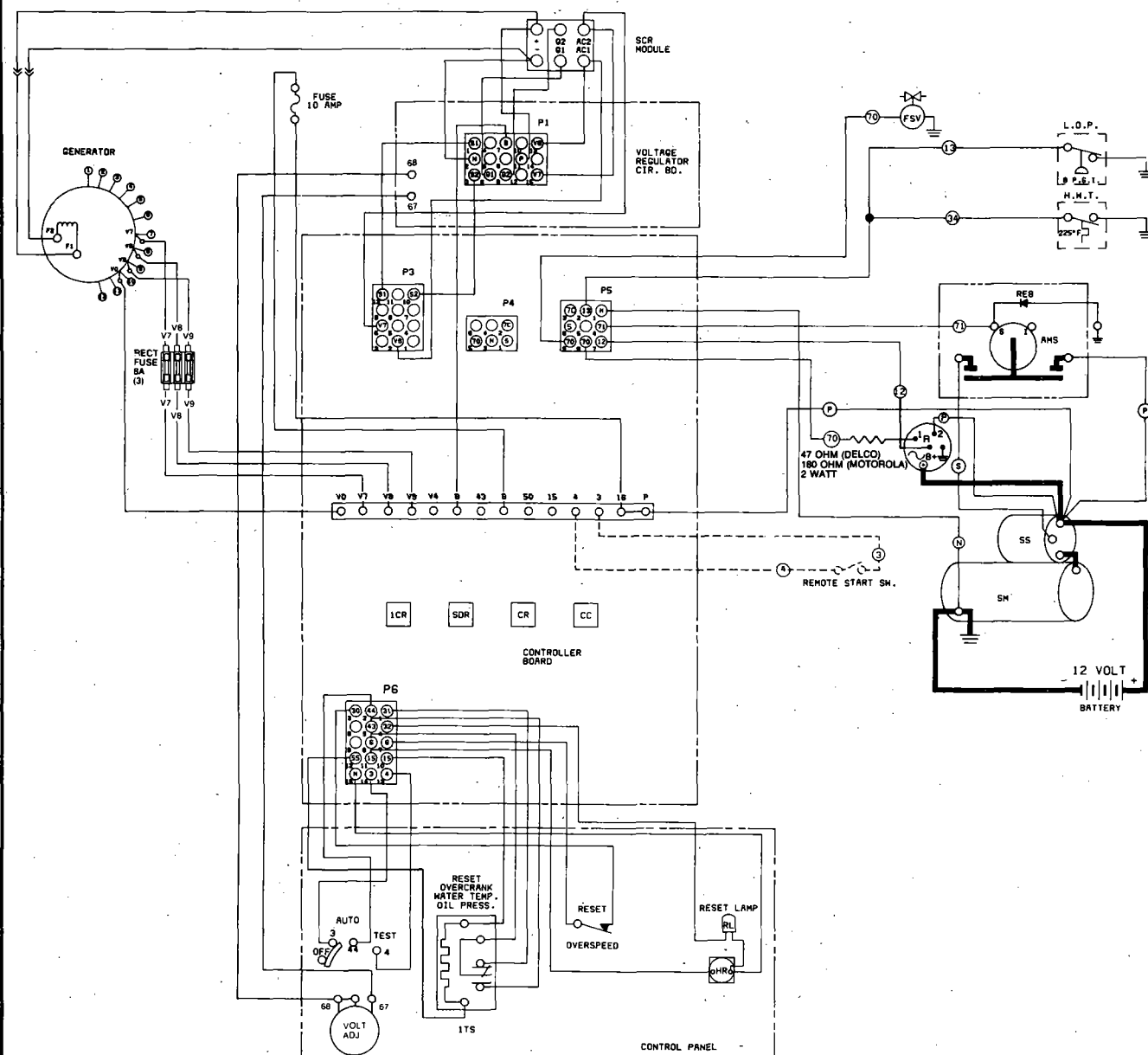


60HZ.-120/240V.-1 PH. 3 WIRE
 50HZ.-110/220V.-1 PH. 3 WIRE



B SERIES
WIRING DIAGRAM
3905267-1

GEN-SET W/AUTOMATIC
CONTROL KIT

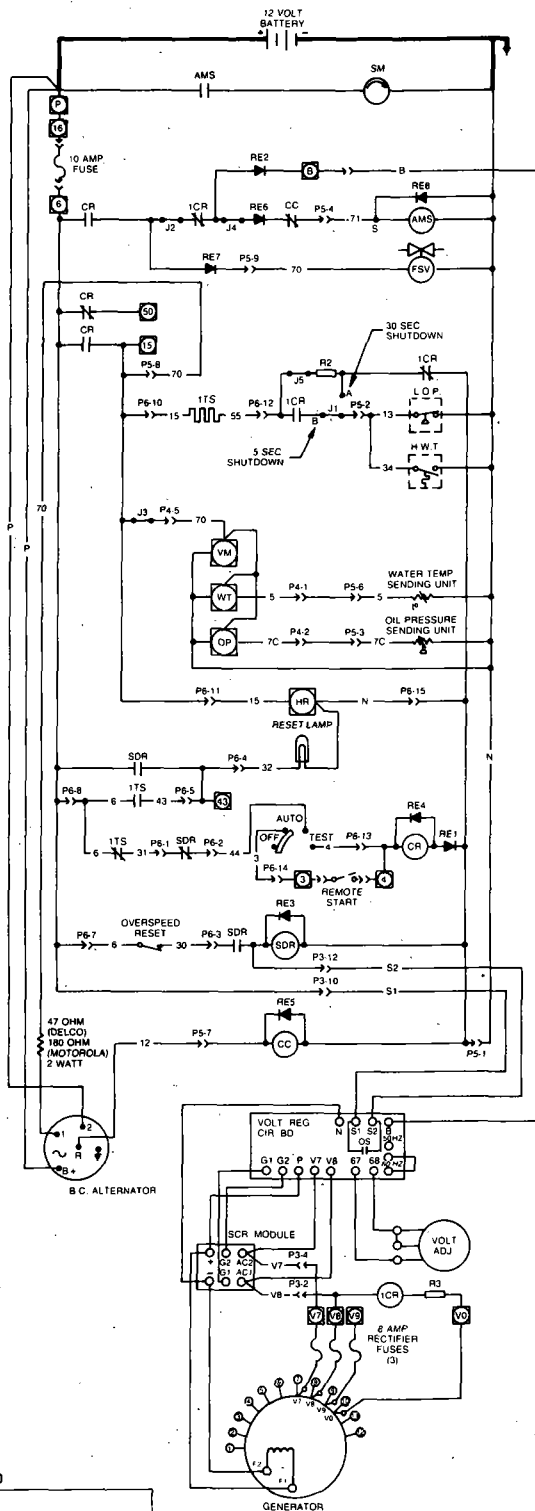


LEGEND

HR - HOUR METER
 FSV - FUEL SOLENOID VALVE
 RL - RESET LAMP
 AMS - AUXILIARY MAGNETIC SWITCH
 SM - STARTING SOLENOID
 SM - STARTER MOTOR
 SM - BATTERY CHARGING ALTERNATOR
 L.O.P. - LOW OIL PRESSURE SWITCH
 H.W.T. - HIGH WATER TEMPERATURE SWITCH
 C.T1 - C.T2 - CURRENT TRANSFORMERS
 CR - IGNITION RELAY
 1CR - CRANK DISCONNECT RELAY
 CC - SECONDARY CRANK DISCONNECT RELAY
 ITS - THERMAL TIME DELAY RELAY
 SDR - OVERSPEED SHUTDOWN RELAY

B SERIES WIRING DIAGRAM 3905267-2

**GEN-SET W/AUTOMATIC
CONTROL KIT**

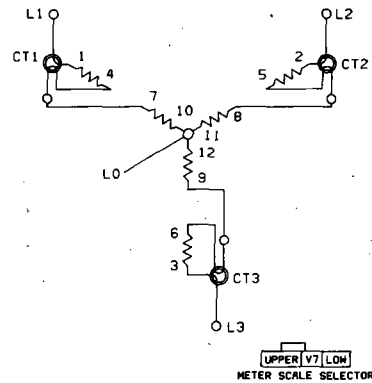


LEGEND

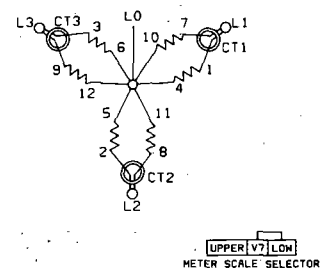
HR - HOUR METER
 VM - VOLT METER
 WT - WATER TEMPERATURE METER
 OP - OIL PRESSURE METER
 AMS - AUXILIARY MAGNETIC SWITCH
 SS - STARTING SOLENOID
 SM - STARTER MOTOR
 ~ - BATTERY CHARGING ALTERNATOR
 RL - RESET LAMP
 FSV - FUEL SOLENOID VALVE
 HZ - FREQUENCY METER
 ACA - A.C. AMMETER
 ACVM - A.C. VOLT METER
 L.O.P. - LOW OIL PRESSURE SWITCH
 H.W.T. - HIGH WATER TEMPERATURE SWITCH
 CT1 - CT3 - CURRENT TRANSFORMERS
 CR - IGNITION RELAY
 ICR - CRANK DISCONNECT RELAY
 CC - SECONDARY CRANK DISCONNECT RELAY
 ITS - THERMAL TIME DELAY RELAY
 SDR - OVERSPEED SHUTDOWN RELAY

GENERATOR CONNECTIONS

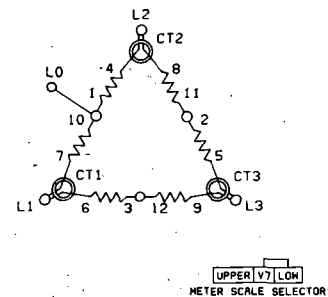
60HZ.-277/480V.-3 PH. 4 WIRE
 50HZ.-220/380V.-3 PH. 4 WIRE



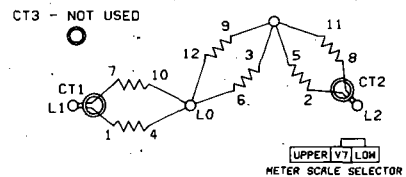
60HZ.-120/208V.-3 PH. 4 WIRE
 60HZ.-240V.-3 PH. 3 WIRE
 50HZ.-120/208V.-3 PH. 4 WIRE



60HZ.-120/240V.-1 PH. 4 WIRE
 50HZ.-110/220V.-3 PH. 4 WIRE

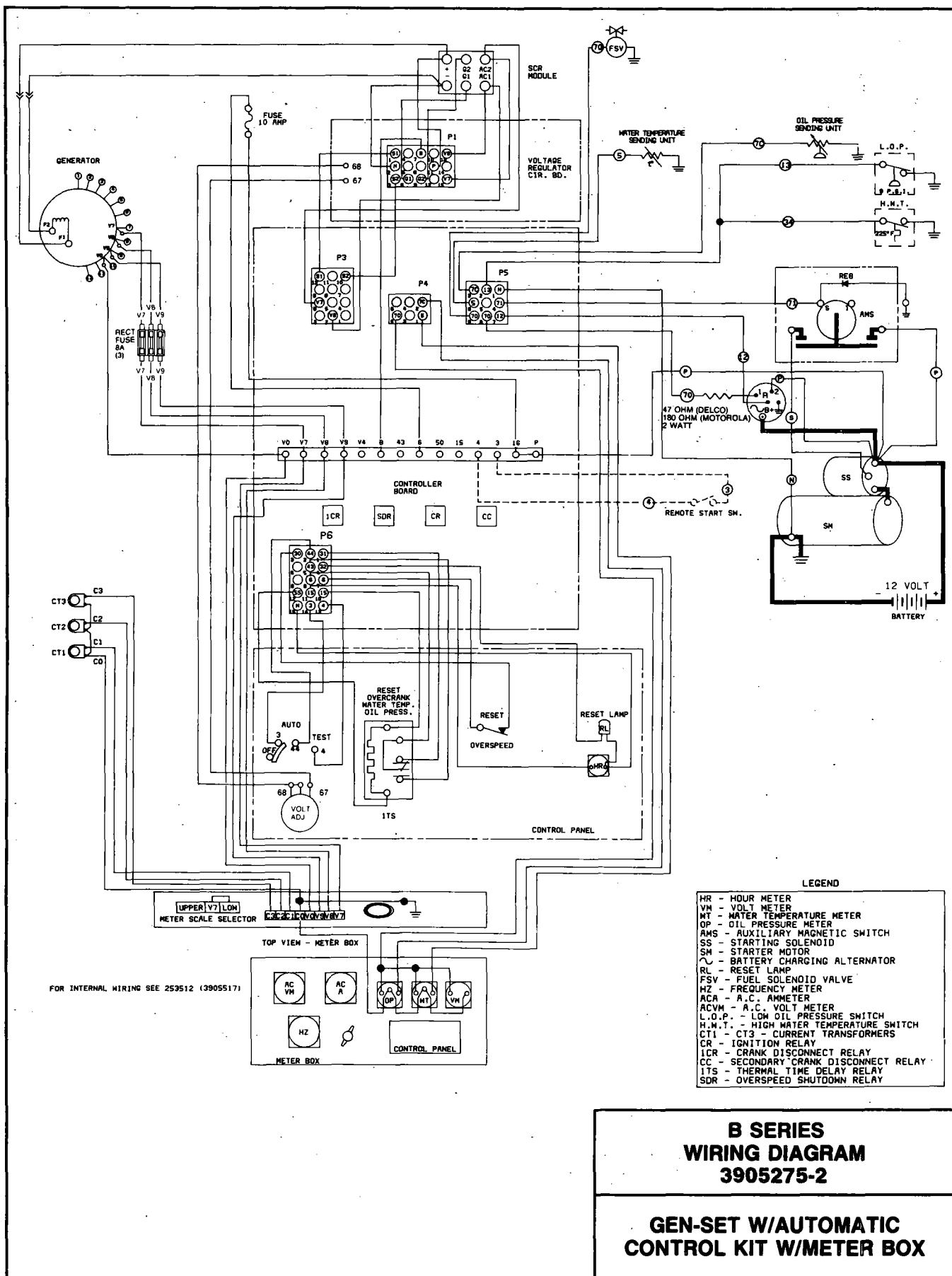


60HZ.-120/240V.-1 PH. 3 WIRE
 50HZ.-110/220V.-1 PH. 3 WIRE



B SERIES WIRING DIAGRAM 3905275-1

GEN-SET W/AUTOMATIC CONTROL KIT W/METER BOX



ASSEMBLY PROCEDURE

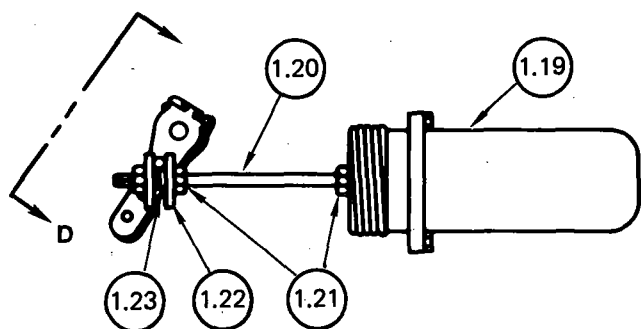
This bill of material is organized in the recommended order of assembly. The assembly number is shown on the drawing, is marked inside a circle and points to the detail of each part. Where the assembly pro-

cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

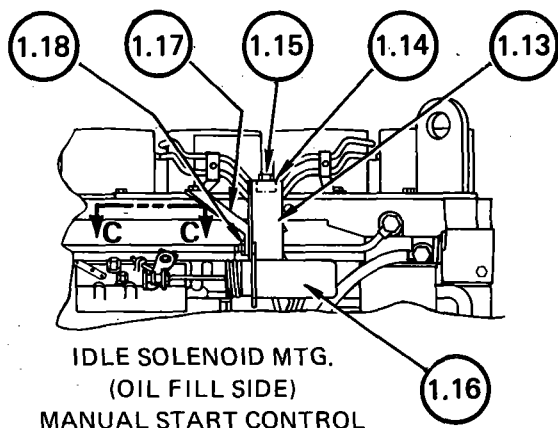
ASS'Y NO.	PART NO.	DESCRIPTION	QTY.	OPTION NO.
				SD- 9903
	3903981	Bracket, Relay	1	1.1
	S608	Washer, Int./Ext. Tooth 1/2	1	1.2
	3905547	Screw, H. C. M12-1.75 x 20	2	1.2
	3905305	Solenoid, Starter	1	1.3
	3905554	Screw, H.C. 1/4- 20 x 3/8	2	1.4
	181466	Washer, Lock 1/4	4	1.4
	146157	Washer, Plain 1/4	2	1.4
	S224	Nut, Hex. 1/4-20	2	1.4
	3905300	Switch, H.W.T.	1	1.5
	3905299	Switch, L.O.P. (8 psi)	1	1.6
	3905304	Holder, Fuse	1	1.7
	3904615	Fuse	1	1.8
	3905545	Screw, Drill 8-18	4	1.9
	3905272	Panel, Auto Start Control	1	1.10(2)
	3905296	Grommet, Plastic	4	1.11
	127007	Screw, R.M.H. #8-32 x 5/8	4	1.11
	3904887	Bracket, Solenoid	1	1.13
	3907901	Spacer	1	1.14
	3900633	Screw, H.C. M8-1.25 x 50	1	1.15
	3903966	Solenoid, 12 Volt Idle/Run	1	1.16(3)
	3904886	Bracket, Solenoid Mounting	1	1.17
	70214	Screw, R.H.M. 1/4--20	1	1.18
	181466	Washer, Lock 1/4	1	1.18
	S257	Nut, Hex. 1/4--20	1	1.18
	181466	Washer, Lock 1/4	2	1.19
	70214	Screw, R.H.M. 1/4--20	2	1.19
	S257	Nut, Hex. 1/4--20	2	1.19
	3903964	Stud	1	1.20
	S270	Nut, Hex. 1/4--28	3	1.21(1)
	3907894	Washer, Plain	2	1.22
	146157	Washer, Plain 1/4	2	1.23
	3903965	Stud	1	1.24
	S215	Nut, Hex. #10--32	2	1.25
	S215-A	Nut, Hex. #8--32	4	1.10
	S257	Nut, Hex #10 - 32	2	1.3
	3904930	Mount, Vibration	1	1.4
	3905269	Board, Control	1	1.12
	3907124	FR Relay, 12V DC	1	1.12
	3909727	VBU Relay 120V AC	1	1.12
	3909803	IR Relay 12V DC	1	1.12
	181466	Washer, Lock	2	1.21(1)
	3911181	Panel, Front	1	1.10
	3905545	Screw, Drill 8-18	4	1.10
	3912282	Panel, Adapter	1	1.10
	S636	Washer, Lock #6	4	1.10

NOTES:

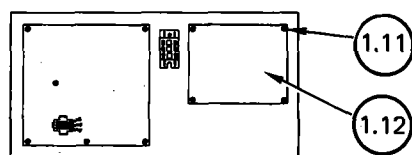
- (1) Install third nut, item 1.21 after washer, item 1.24 has been fitted and the stud (1.23) and nuts (1.25) are fitted into the fuel pump lever's hole nearest the spindle.
- (2) For wiring instructions, see the following pages. For engine wiring use wiring harness EG 9905 (4B(T)(A)3.9 engines) or EG 9913 (6B(T)(A) 5.9 engines).
- (3) See next page for adjustment instructions.



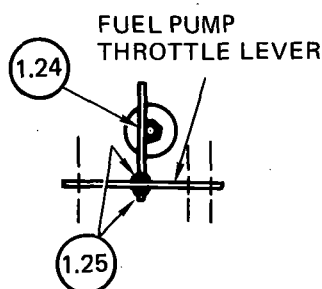
VIEW C-C



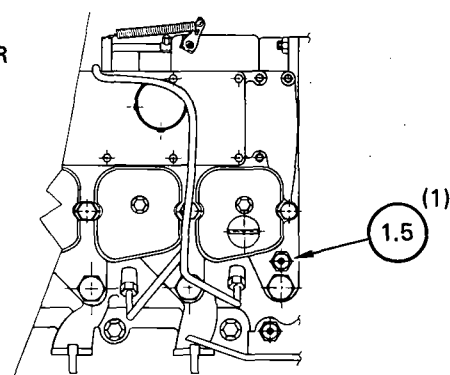
IDLE SOLENOID MTG.
(OIL FILL SIDE)
MANUAL START CONTROL



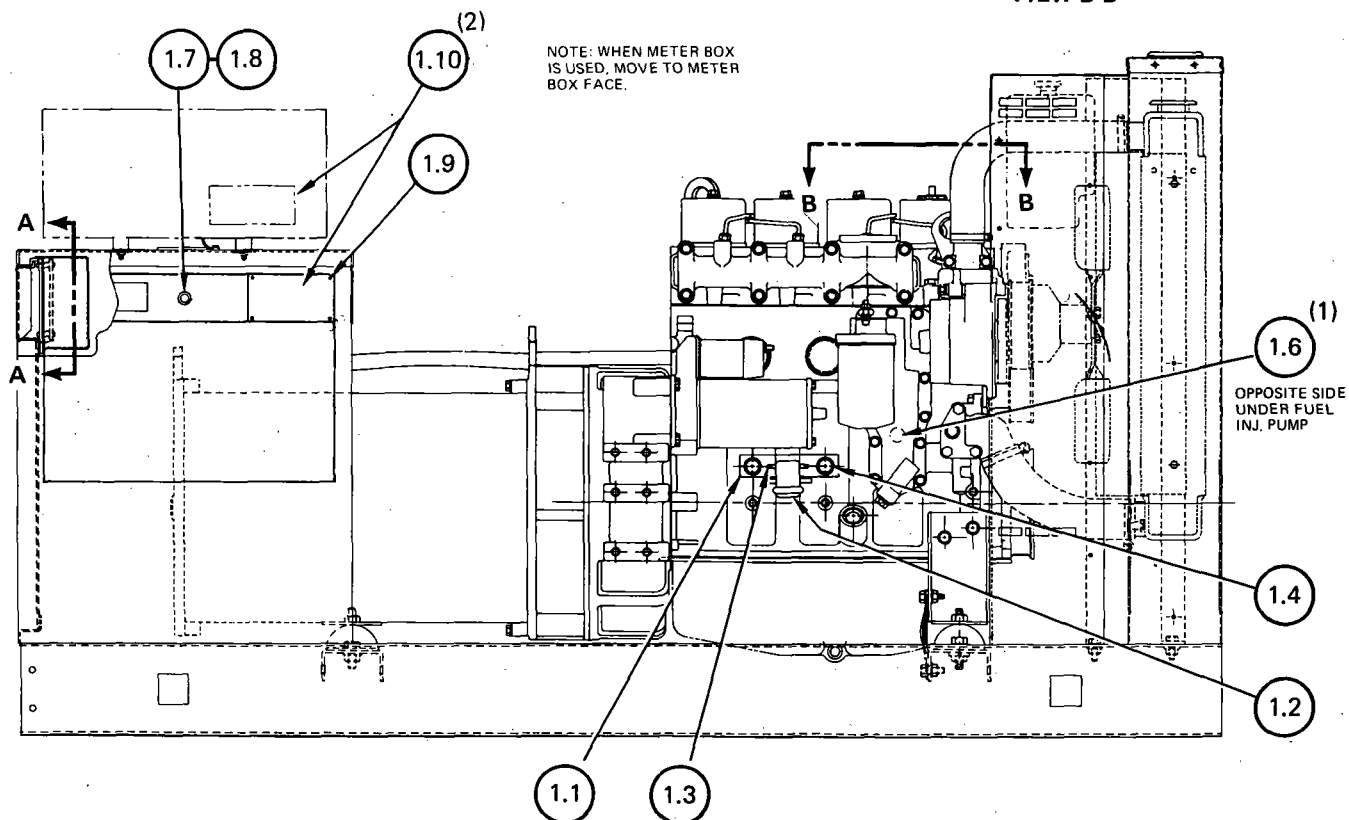
MANUAL START CONTROL
VIEW A-A



VIEW D-D



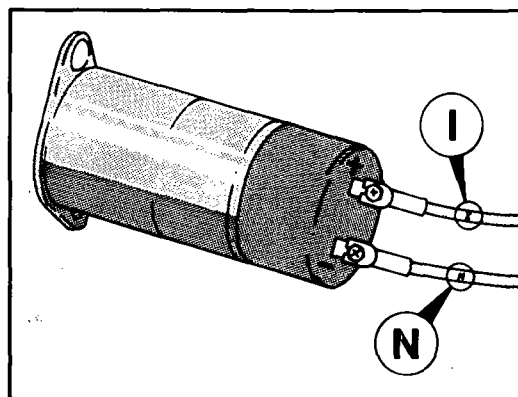
H.W.T. SWITCH LOCATION
VIEW B-B



MANUAL START CONTROL PANEL
ref. 3904814/5584

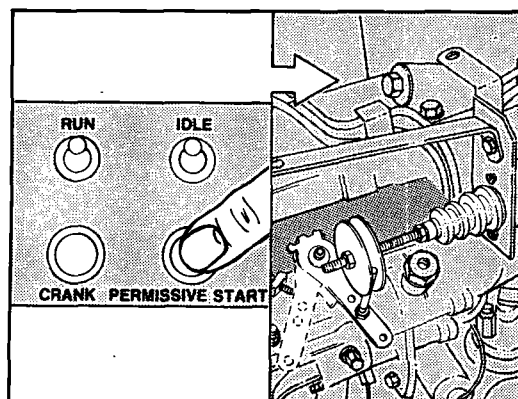
OPTION SD 9903: MANUAL CONTROL PANEL. IDLE/RUN SOLENOID ADJUSTMENT.

After wiring the complete unit with an engine wiring harness (EG 9905 or EG 9913), connect lead "I" to the positive terminal and lead "N" to the negative terminal of the solenoid.



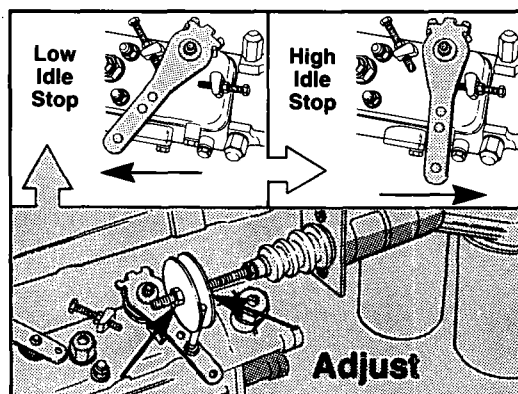
Place the run-off toggle switch on the control panel in the "RUN" position and the idle-normal toggle switch in the "IDLE" position.

Press in on the permissive start button to activate the solenoid to the "HIGH IDLE" position.



Loosen the locknut and adjust the linkage to obtain full stop-to-stop travel.

CAUTION: MAKE SURE THAT THE SOLENOID IS ALLOWED TO MOVE TO ITS FULL TRAVEL POSITION WHEN ACTIVATED, OTHERWISE THE PULL COIL WILL BE DAMAGED WITHIN 30--40 SECONDS.



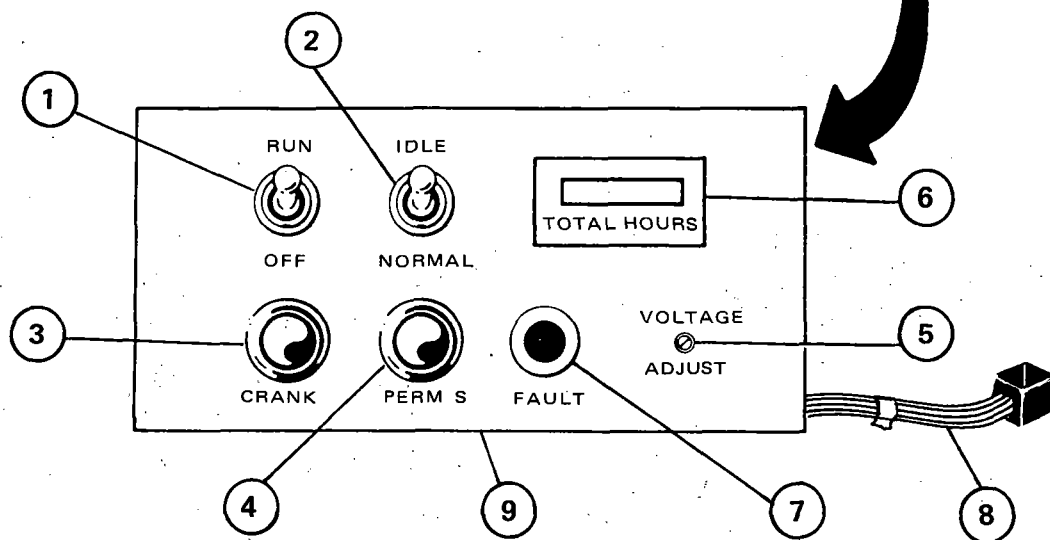
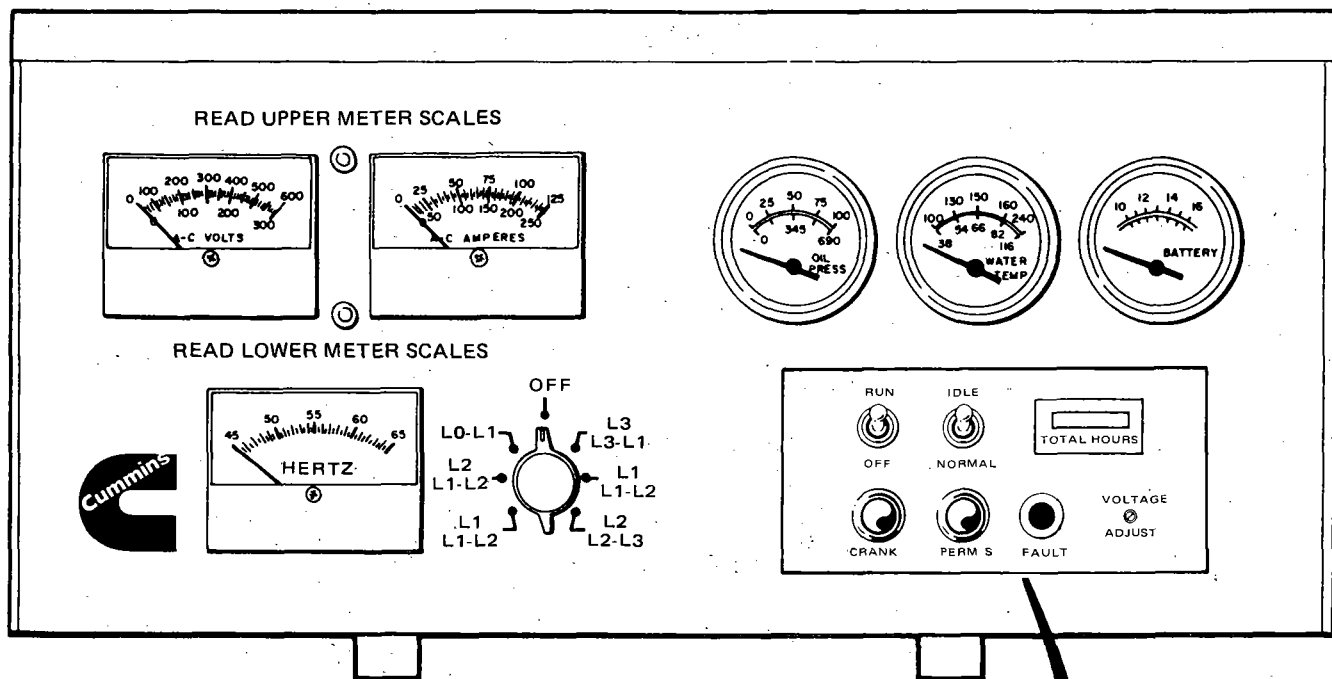
ASSEMBLY PROCEDURE

This bill of material is organized in the recommended order of assembly. The assembly number is shown on the drawing, is marked inside a circle and points to the detail of each part. Where the assembly pro-

cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

3906012 MANUAL CONTROL PANEL ASSEMBLY

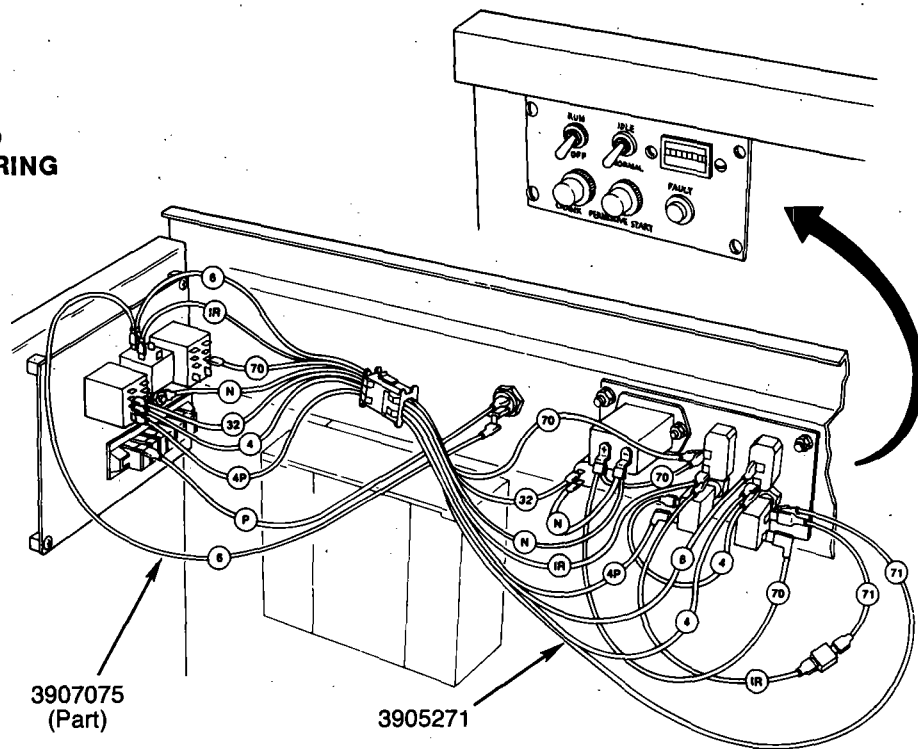
<u>ASS'Y NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	3907119	Switch, Run/Off
2	3907119	Idle/Normal Speed Switch
3	3905273	Cranking Pushbutton
4	3905274	Permissive Start Pushbutton
5	3904936	Voltage, Adjust Rheostat
6	3904621	Hourmeter
7	3905301	Fault Lamp
8	3905271	Wiring Harness
9	3907120	Panel Face



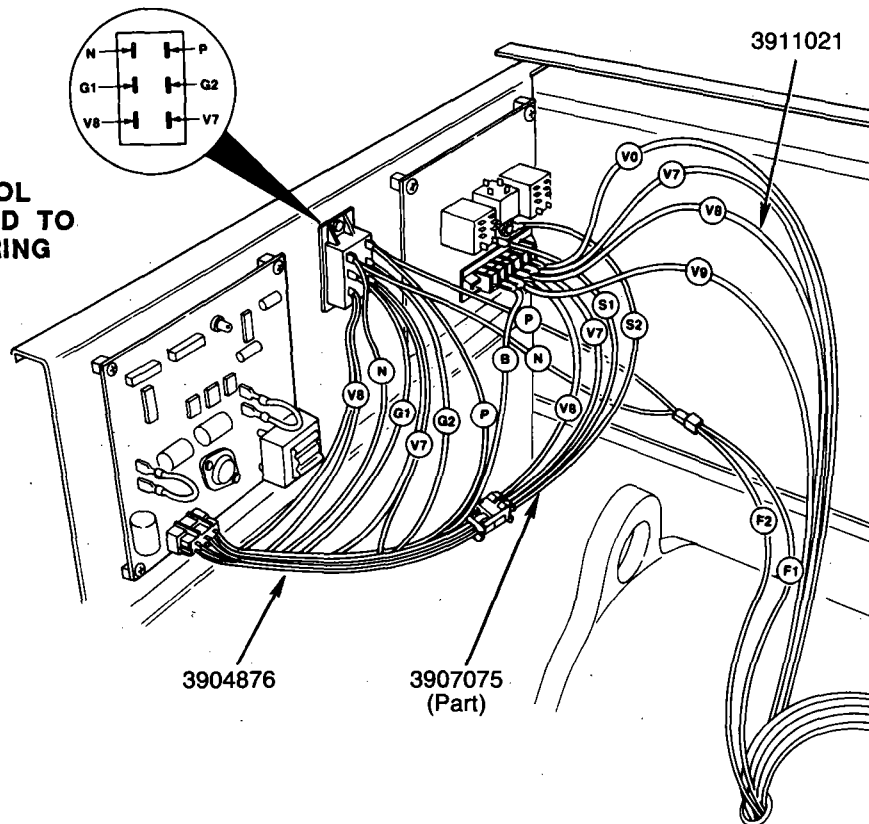
OPTION SD 9903 MANUAL START CONTROL PANEL--WIRING INSTRUCTIONS
WIRING BETWEEN THE CONTROL PANEL, CIRCUIT BOARD,
VOLTAGE REGULATOR AND GENERATOR

Connect the wiring as illustrated, after all hardware is installed.

1) CONTROL BOARD TO
CONTROL PANEL WIRING



2) GENERATOR TO CONTROL
BOARD, CONTROL BOARD TO
REGULATOR BOARD WIRING



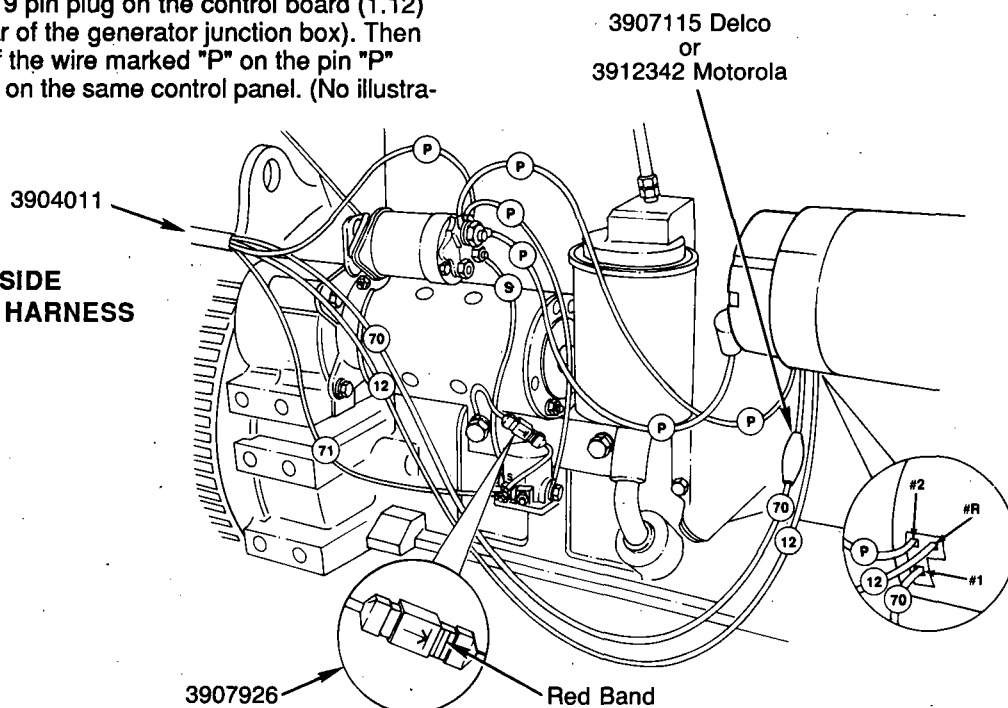
**OPTION EG 9905 & EG 9913: ENGINE WIRING HARNESS
FOR USE WITH MANUAL OR AUTOMATIC START CONTROL PANELS
WIRING TO AUTOMATIC START CONTROLS SD 9901**

Connect the wiring as illustrated, after the control panel assembly is fully installed.

STEP (1) WIRING TO THE CONTROL PANEL

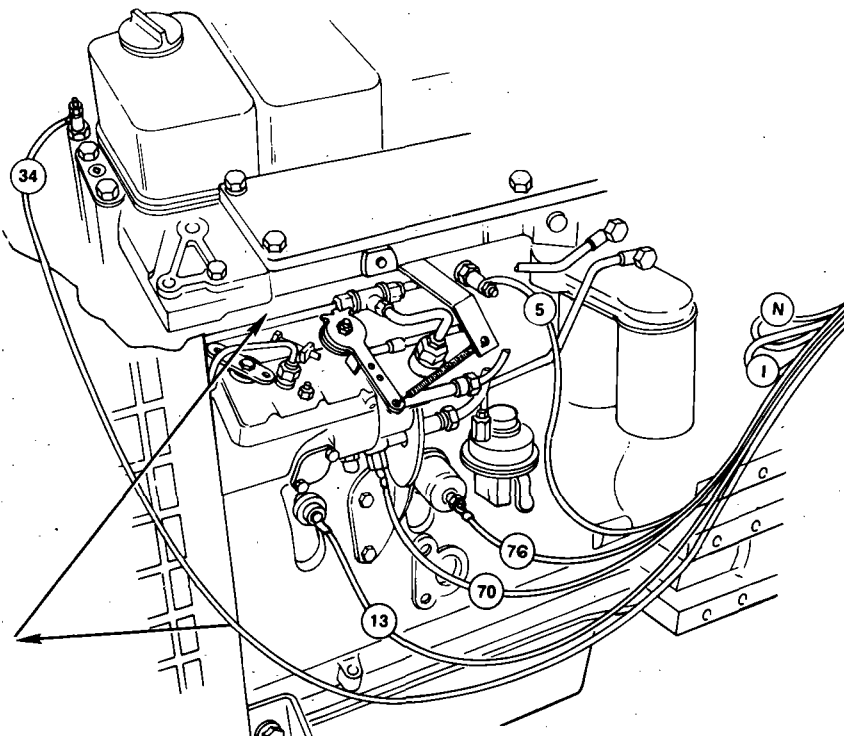
Place the wiring harness through the junction box hole at the front and fix the large grommet in place. Join the wiring harness plug to the 9 pin plug on the control board (1.12) (attached to the rear of the generator junction box). Then push the terminal of the wire marked "P" on the pin "P" on the terminal strip on the same control panel. (No illustration shown).

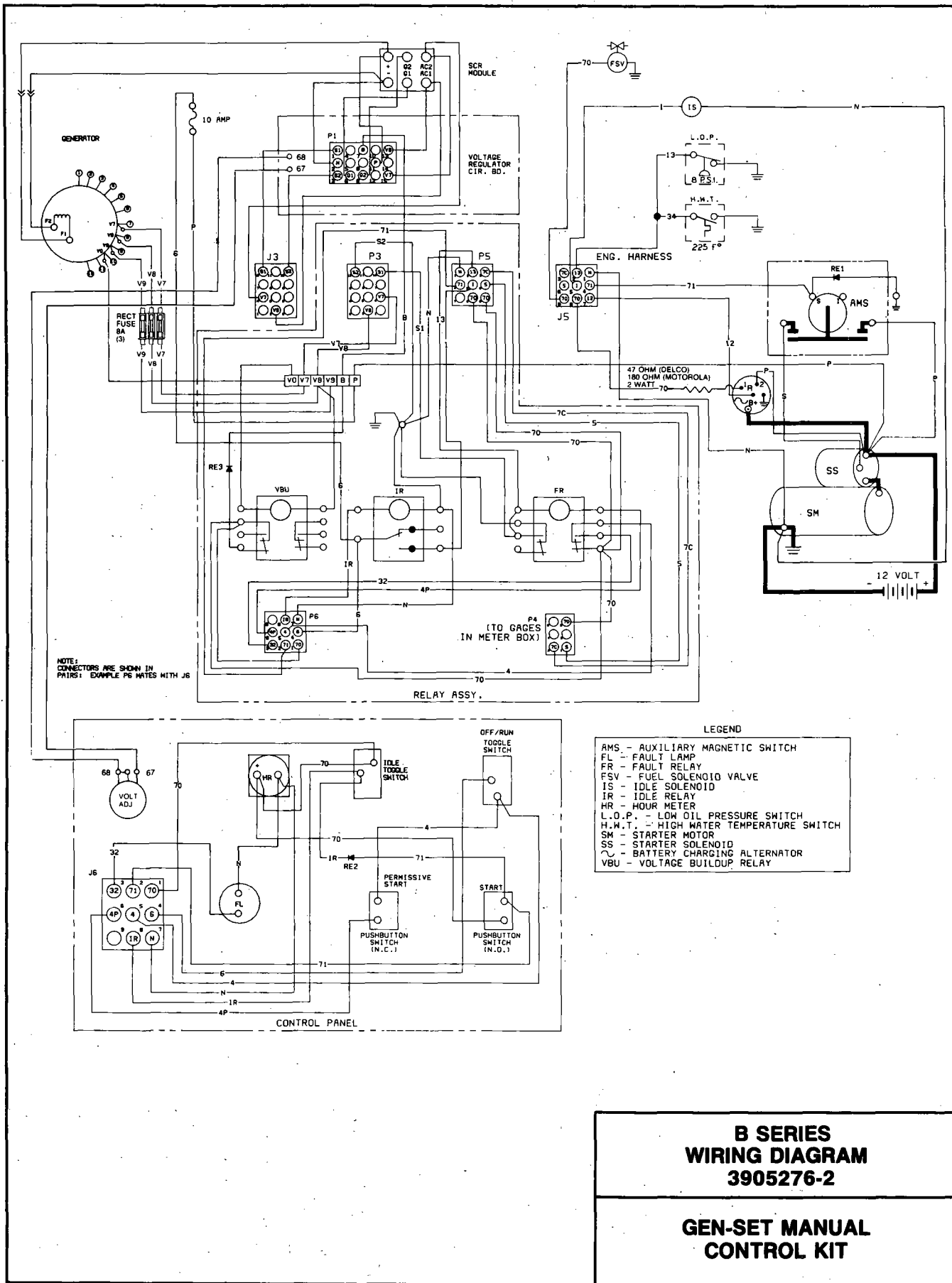
**STEP (2) RIGHT SIDE
ENGINE WIRING HARNESS**



**STEP (3) LEFT SIDE
ENGINE WIRING HARNESS**

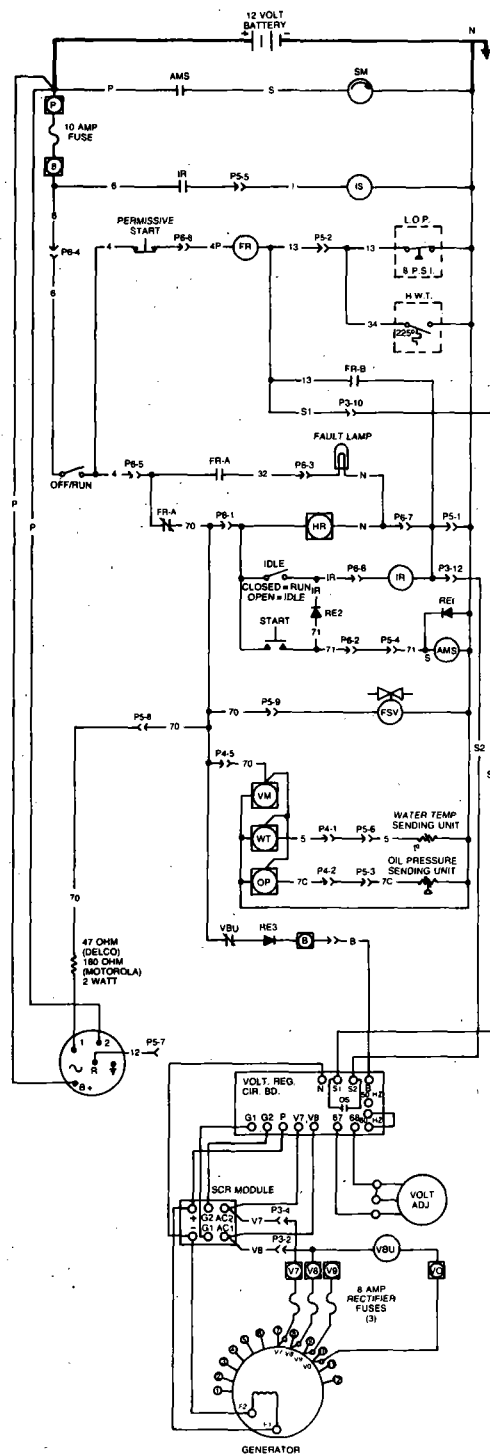
Note:
Pass wire 34 between the fuel injection pump and the cylinder block before attaching to the sender.





**B SERIES
WIRING DIAGRAM
3905276-2**

**GEN-SET MANUAL
CONTROL KIT**

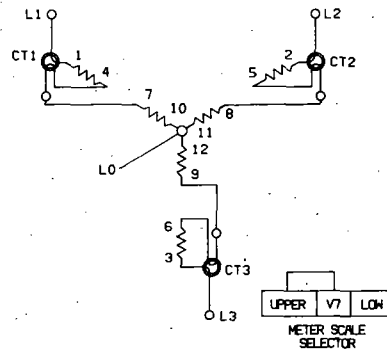


LEGEND

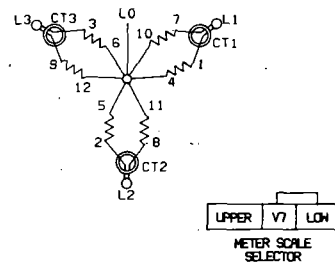
AMS - AUXILIARY MAGNETIC SWITCH
 FL - FAULT LAMP
 FSV - FUEL SOLENOID VALVE
 IS - IDLE SOLENOID
 IR - IDLE RELAY
 HR - HOUR METER
 L.O.P. - LOW OIL PRESSURE SWITCH
 H.W.T. - HIGH WATER TEMPERATURE SWITCH
 SM - STARTER MOTOR
 SS - STARTER SOLENOID
 B.C.A. - BATTERY CHARGING ALTERNATOR
 VBU - VOLTAGE BUILDUP RELAY
 CT1-CT3 - CURRENT TRANSFORMERS

GENERATOR CONNECTIONS

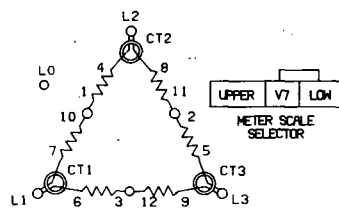
60HZ.-277/480V.-3 PH. 4 WIRE
 50HZ.-220/380V.-3 PH. 4 WIRE



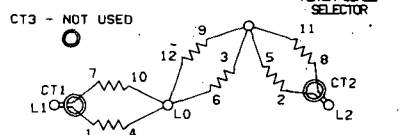
60HZ.-120/208V.-3 PH. 4 WIRE
 60HZ.-240V.-3 PH. 3 WIRE
 50HZ.-120/208V.-3 PH. 4 WIRE



60HZ.-120/240V.-3 PH. 4 WIRE
 50HZ.-110/220V.-3 PH. 4 WIRE

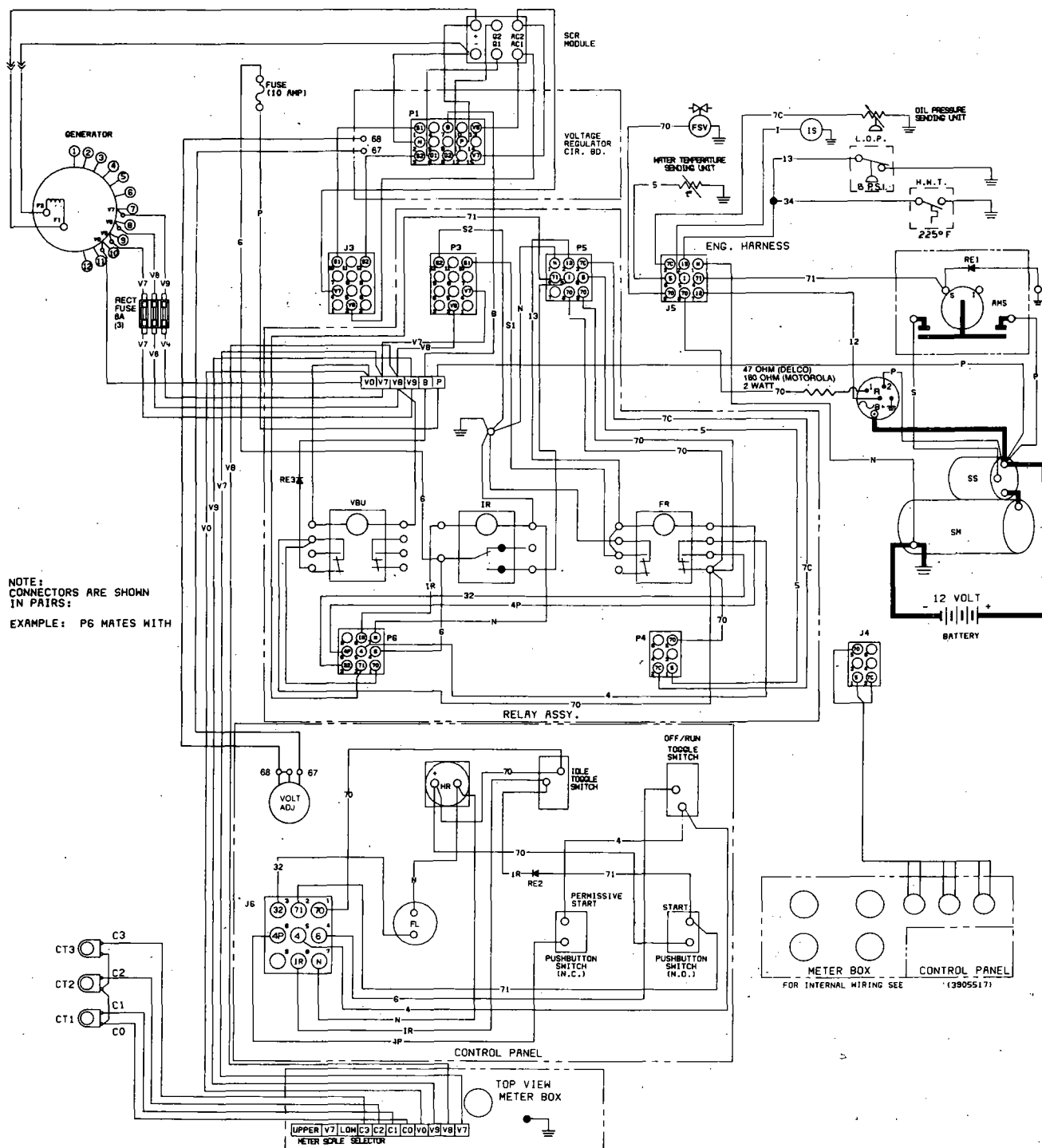


60HZ.-120/240V.-1 PH. 3 WIRE
 50HZ.-110/220V.-1 PH. 3 WIRE



**B SERIES
 WIRING DIAGRAM
 3905277-1**

**GEN-SET W/MANUAL
 CONTROL KIT W/METER BOX**



B SERIES WIRING DIAGRAM 3905277-2

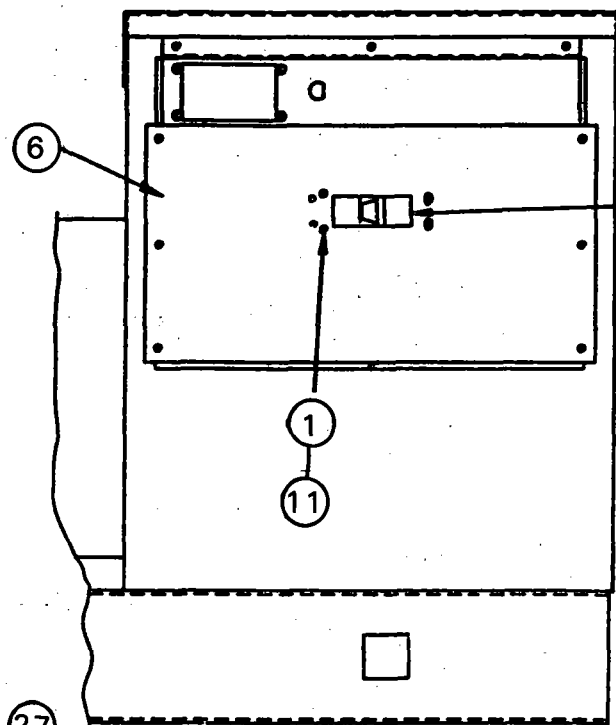
GEN-SET W/MANUAL
CONTROL KIT W/METER BOX

ASSEMBLY PROCEDURE

This bill of material is organized in the recommended order of assembly. The assembly number is shown on the drawing, is marked inside a circle and points to the detail of each part. Where the assembly pro-

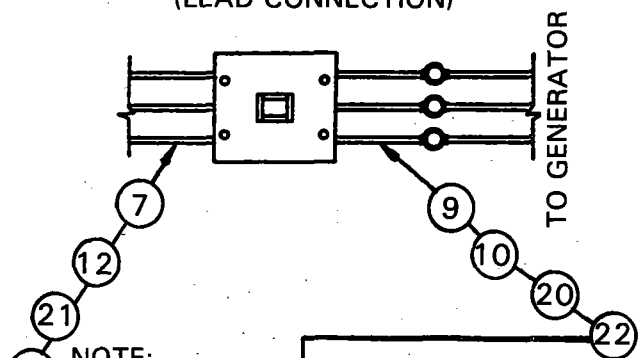
cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

NO.	PART NO.	DESCRIPTION	QTY.	OPTION NO.									
				3 POLE	3 POLE	3 POLE	3 POLE	3 POLE	3 POLE	3 POLE	3 POLE	3 POLE	3 POLE
				240 V.	240 V.	240 V.	240 V.	240 V.	240 V.	240 V.	240 V.	240 V.	240 V.
				GW9902	GW9917	GW9906	GW9940	GW9930	GW9934	GW9938	GW9944	GW9913	GW9915
				GW9907	GW9919	GW9910	GW9941	GW9931	GW9935	GW9939	GW9945		
	S-692	Washer, Lock #8	4	X	X	X		X	X				
	70715	Washer, Plain #8	8	X	X	X		X	X				
1		Screw #8	4	X	X	X		X	X				
	S-215-A	Nut, #8-32	4	X	X	X		X	X				
2	3904920	Breaker, Circuit	1										
3	3904921	Breaker, Circuit	1										
4	3904922	Breaker, Circuit	1	X									
5	3905550	Breaker, Circuit	1		X								
6	3907082	Bracket, Panel	1	X	X	X		X	X				
7	3904923	Lead	3	X	X	X		X	X				
8	3904925	Breaker, Circuit	1										
		Lead	3	X	X	X		X	X				
	S-107	Screw, 5/16 -- 18 x .750	3	X	X	X		X	X				
9	103844	Washer, Lock 5/16	3	X	X	X		X	X				
	S-221	Nut, 5/16 -- 18	3	X	X	X		X	X				
		Lead	2										
	S-107	Screw, 5/16 -- 18 x .750	2										
10	103844	Washer, Lock #8	2										
	S-221	Nut, 5/16 -- 18	2										
	S-692	Washer, Lock 5/16	2										
11	70715	Washer, Plain #8	4										
		Screw, #8 -- 32 x 4	2										
	S-215-A	Nut, #8 -- 32	2										
12	3904923	Lead	2										
13	3909876	Panel, Side	1				X			X	X	X	
14	3912334	Breaker, Circuit	1										X
15	3911013	Breaker, Circuit	1				X						
16	3911022	Breaker, Circuit	1				X						
	S-692	Washer, Lock #8	4				X			X	X	X	
17	134557	Washer, Plain #10	4				X			X	X	X	
	3905549	Screw #8 -- 32 x 3.5	4				X			X	X	X	
	S-215-A	Nut #8 -- 32	4				X			X	X	X	
18	3909877	Bracket, Circuit Breaker	1				X			X	X	X	
	S-171-A	Screw 5/16 -- 18 x .500	4				X			X	X	X	
19	103844	Washer, Lock 5/16	4				X			X	X	X	
	146160	Washer, Plain 5/16	4				X			X	X	X	
	3912308	Lead	2										
20	S-107	Screw, 5/16 -- 18 x .750	2										
	103844	Washer, Lock 5/16	2										
	S-221	Nut, 5/16 -- 18	2										
21	3912308	Lead	2				X						
	3912308	Lead	3				X			X	X	X	
	S-107	Screw, 5/16 -- 18 x .750	3				X			X	X	X	
22	103844	Washer, Lock 5/16	3				X			X	X	X	
	S-221	Nut, 5/16 -- 18	3				X			X	X	X	
23	3912308	Lead	3							X	X	X	
24	3911055	Breaker, Circuit	1					X					
25	3911056	Breaker, Circuit	1						X				
26	3911059	Breaker, Circuit	1							X			
27	3911060	Breaker, Circuit	1								X		



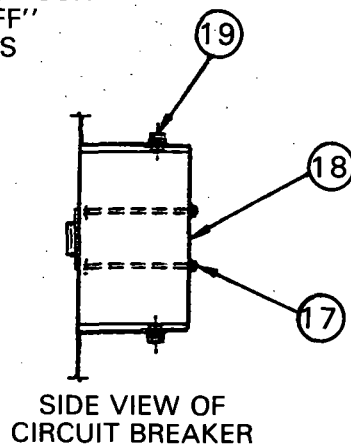
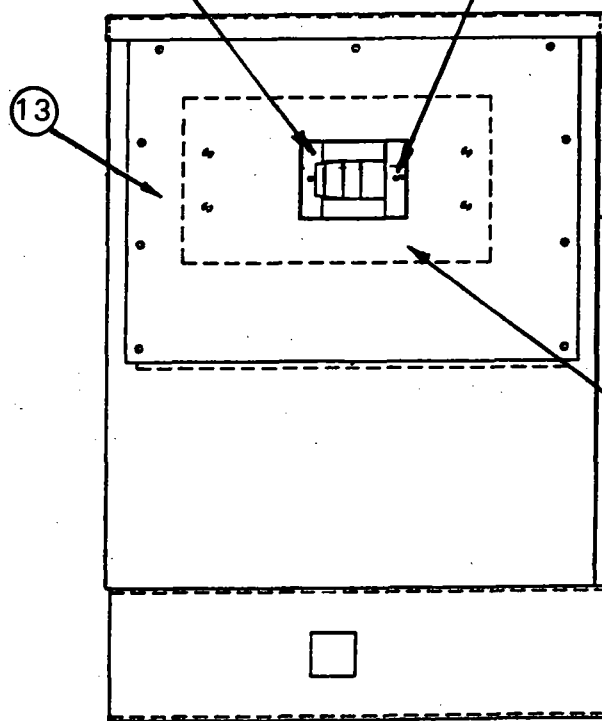
NOTE:
FOR 480 VOLT CIRCUIT BREAKER KITS,
SEE ASSEMBLY DRAWING 3909879.

2 3 4 5 8 24 25
FRONT VIEW OF CIRCUIT BREAKER
(LEAD CONNECTION)



NOTE:
TAPE INDIVIDUALLY WITH ELECTRICAL
TAPE SO JUNCTURE IS COVERED WITH
AT LEAST TWO LAYERS OF TAPE.
EACH LAYER TO HAVE A 50% OVERLAP.

NOTE:
ALWAYS INSTALL CIRCUIT
BREAKER WITH "OFF"
POSITION TOWARDS
ENGINE.



NOTE:
CIRCUIT BREAKERS TO
BE MOUNTED OPPOSITE
SIDE METER BOX FACE
WITH THESE KITS.

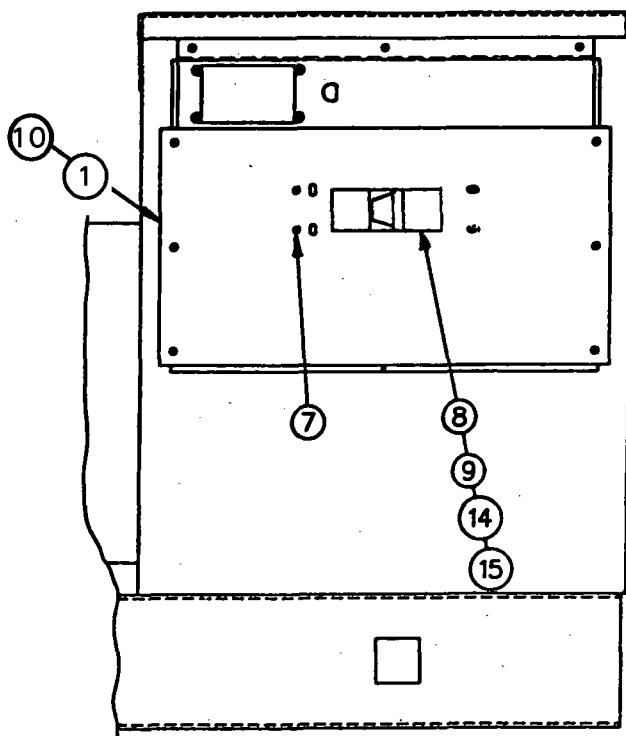
CIRCUIT BREAKER MTG. KITS
240 VOLT
30 - 100 KW CUMMINS
ref. 3907089

ASSEMBLY PROCEDURE

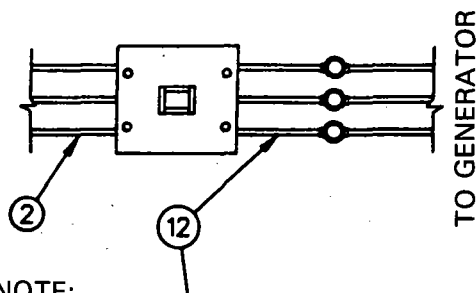
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cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

NO.	PART NO.	DESCRIPTION	QTY.	OPTION NO.				
				3 POLE 480 V	3 POLE 480 V	3 POLE 600 V	3 POLE 600 V	3 POLE 600 V
				GW9928 GW9929	GW9921 GW9922	GW9926 GW9927	GW9932 GW9933	GW9936 GW9937
1	3907082	Bracket, Panel	1				X	
2	3904923	Wire, Electrical	3		X		X	X
3	S636	Washer, Lock #6	4	X		X		
	3905551	Screw, Round Head Cap #6 -- 32 x 3/8	4	X		X		
4	3904118	Breaker, Circuit	1					
5	3904120	Breaker, Circuit	1	X				
6	3904924	Wire, Electrical	3	X		X		
7	S607	Washer, Lock #10	4		X		X	X
	134557	Washer, Plain #10	4		X		X	X
	103	Screw, #10 -- 24 x 4.50	4		X		X	X
	103266	Nut, #10 -- 24	4		X		X	X
8	3905552	Breaker, Circuit	1		X			
9	3905553	Breaker, Circuit	1					
10	3907081	Bracket, Panel	1		X			X
		Wire, Electrical	3	X		X		
		Screw, 1/4 -- 20 x .750	3	X		X		
11	181466	Washer, Lock 1/4	3	X		X		
	S224	Nut, Regular Hexagon 1/4 -- 20	3	X		X		
		Wire, Electrical	3		X		X	X
12	S107	Screw, 5/16 -- 18 x .750	3		X		X	X
	103844	Washer, Lock 5/16	3		X		X	X
	S221	Nut, Regular Hexagon 5/16 -- 18	3		X		X	X
13	3911054	Breaker, Circuit	1			X		
14	3911057	Breaker, Circuit	1				X	
15	3911058	Breaker, Circuit	1					X

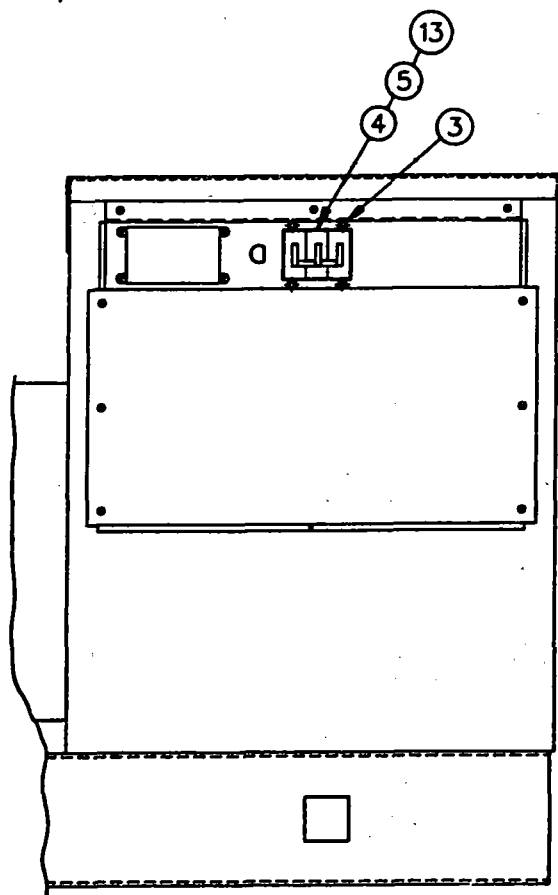


FRONT VIEW OF CIRCUIT BREAKER
(LEAD CONNECTION)

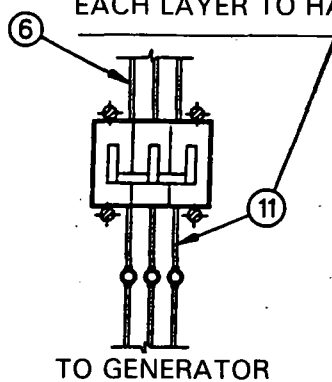


NOTE:
TAPE INDIVIDUALLY WITH ELECTRICAL
TAPE SO JUNCTURE IS COVERED WITH
AT LEAST TWO LAYERS OF TAPE.
EACH LAYER TO HAVE A 50% OVERLAP.

NOTE:
FOR 240 VOLT CIRCUIT BREAKER KITS,
SEE REFERENCE ASSEMBLY 3907089.



NOTE:
TAPE INDIVIDUALLY WITH ELECTRICAL
TAPE SO JUNCTURE IS COVERED WITH
AT LEAST TWO LAYERS OF TAPE.
EACH LAYER TO HAVE A 50% OVERLAP.



TO GENERATOR
FRONT VIEW OF
CIRCUIT BREAKER
(LEAD CONNECTION)

CIRCUIT BREAKER MTG. KITS
480 VOLT
30 - 100 KW CUMMINS
ref. 3909879

ASSEMBLY PROCEDURE

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cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

ASS'Y NO.	PART NO.	DESCRIPTION	QTY.	OPTION NO.	
				ES- 9901	ES- 9902
1	3904890	Bracket, Actuator	2	x	
2	3905968	Bracket, Actuator	1		x
	S608	Washer, Lock	2	x	(4)
	3905547	Screw, Hexagon Head Cap, M12-1.75 x 20	2	x	(4)
3	181466	Washer, Lock 1/4	2	x	x
	146157	Washer, Plain 1/4	2	x	x
	3900223	Screw, Hexagon Head Cap, M6-1 x25	2	x	x
	3905548	Nut, Regular Hexagon, M6-1	2	x	x
4	3903889	Actuator	1	x	x
5(1)	181466	Washer, Lock 1/2	2	x	x
	S270	Nut, Regular Hexagon 1/4-28	4	x	x
	3905228	Joint, Ball	2	x	x
6(5)	3905229	Stud 1/4-20	1	x	
	3905978	Stud 1/4-20	1		x
7	3906013	Pick-up, Magnetic	1	x	x
8(2)	3905227	Control, Governor	1	x	x
9	181466	Washer, Lock 1/4	4	x	x
	3600815	Screw, Hexagon Head Cap, M6-1 x 16	4	x	x
	3905548	Nut, Regular Hexagon M6-1	4	x	x
10	3905561	Harness, Wiring	1	x	x
	3905231	Clamp, Wire Tie	5	x	x
11(3)	3905233	Wire, Electrical	2	x	x
12	3905234	Wire, Electrical	1	x	x
13	3905235	Wire, Electrical	1	x	x

NOTES:

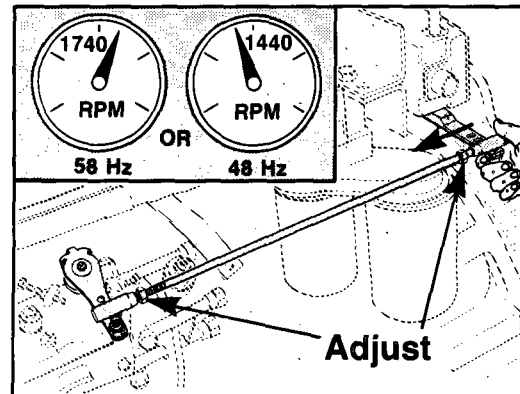
- (1) Place on top of fuel pump lever in nearest hole to throttle spindle. Place the other ball joint in the outside hole on the actuator arm.
- (2) For speed and performance adjustments, refer to the generator set operators manual.
- (3) Use to extend magnetic pick-up leads to reach control governor.
- (4) Use existing hardware.
- (5) Linkage Adjustments--Adjust governor rod length so minimum speed is set approximately 58Hz for 60 Hz units and 48Hz for 50Hz units. This check is made by pushing governor arm toward idle. High speed adjustment screw must be backed out far enough so full travel of bosch governor is achieved. If binding is evident on speed control arm, loosen arm retaining nut slightly. (Nut is self locking.)

ISOCHRONOUS GOVERNOR: OPTIONS ES 9901 & ES 9902

ADJUSTMENT FOR ACTUATOR LINKAGE, WIRING, SPEED CONTROLS AND PERFORMANCE

1. ACTUATOR LINKAGE ADJUSTMENT

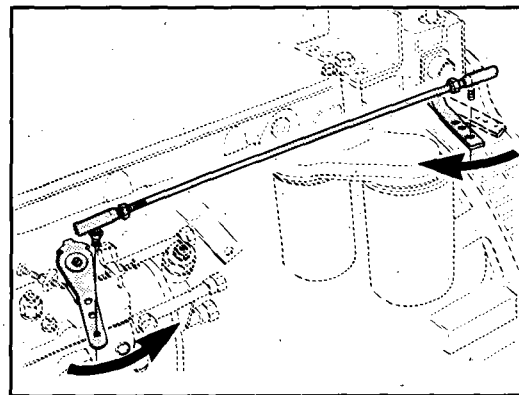
- 1.1. Position the fuel pump throttle lever in the full throttle position and the actuator in the idle position. Install the linkage and start the generator set.

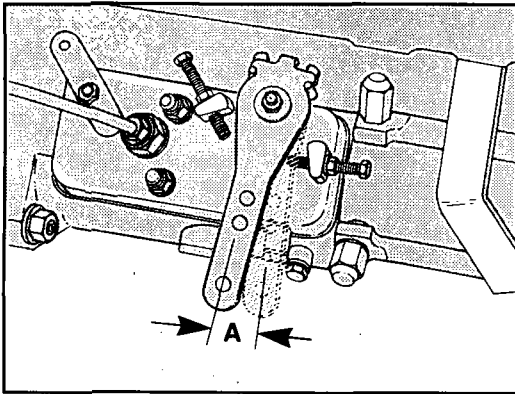


- 1.2. While holding the actuator arm in the idle position, adjust the linkage to obtain the following:

60 Hz Operation --
approximately 58 Hz, 1740 RPM

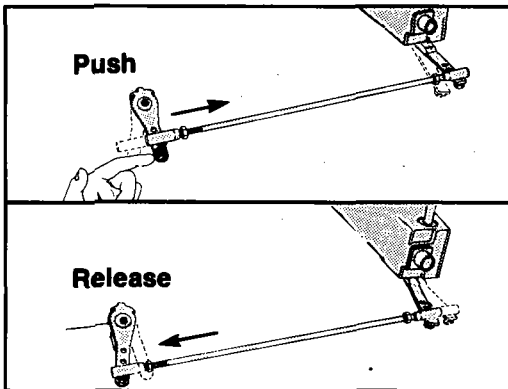
50 Hz Operation --
approximately 48 Hz, 1440 RPM





- 1.3. Adjust the high idle adjusting screw to allow for the excessive travel needed to maintain the maximum power required.

$A = .635\text{mm} [.025 \text{ inch}]$

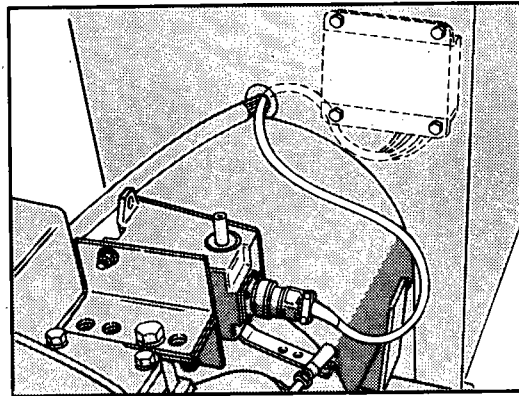


- 1.4. Ensure all linkage and levers are securely tightened.

Manually push the actuator to the full fuel position. When released, it should return to the low idle position without binding or obstructions.

2. **GOVERNOR CONTROL UNIT WIRING CONNECTIONS**

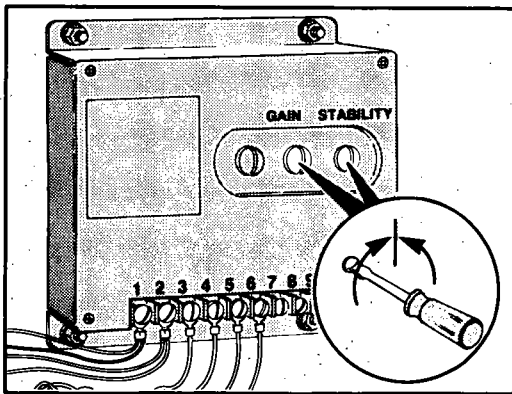
Connect the wiring harness to the actuator and connect the wiring as illustrated on the drawing.



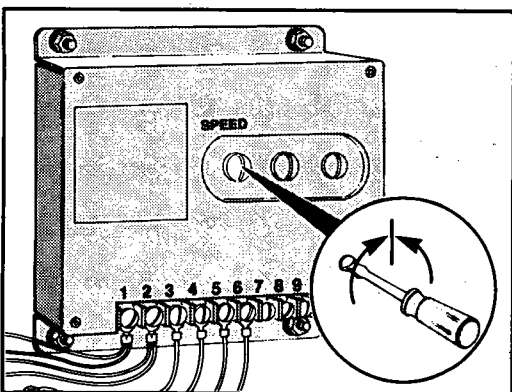


3. ADJUSTING THE SPEED CONTROL UNIT

3.1. Remove the speed control unit access plug.

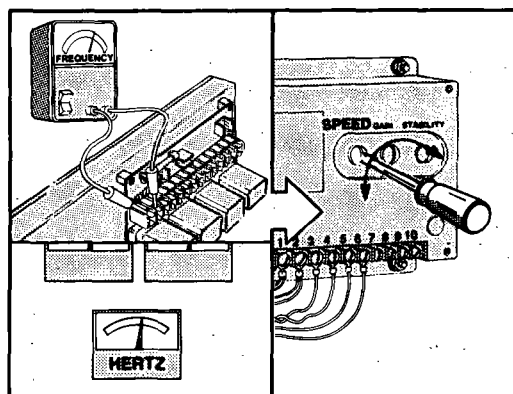


3.2. Set the STABILITY and GAIN controls to approximately midpoint.

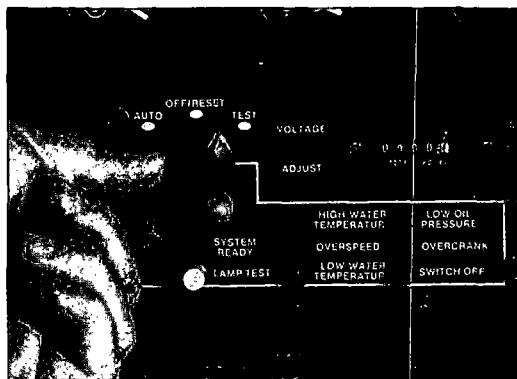


3.3. Set the FREQUENCY TRIM CONTROL (if used) to approximately midpoint.

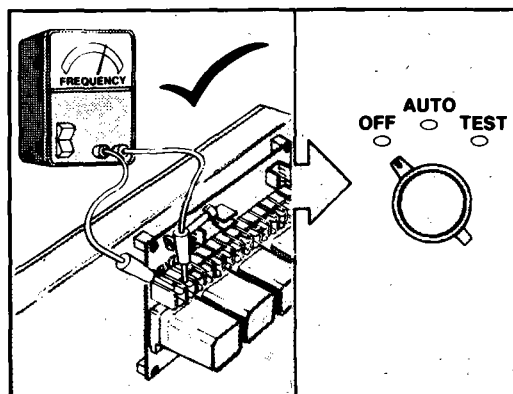
- 3.4. Connect a frequency meter to terminals V0 and V7.

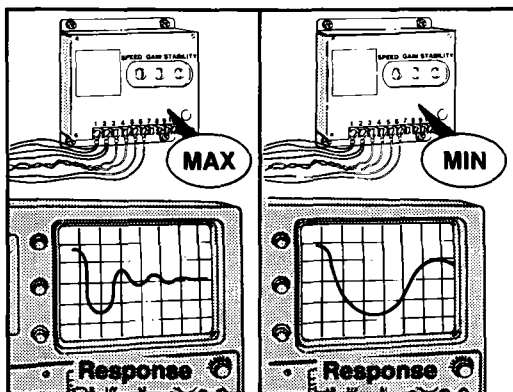
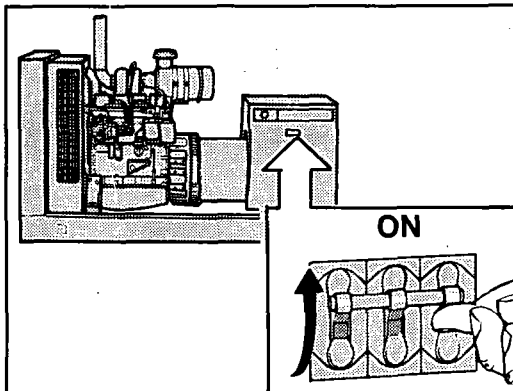
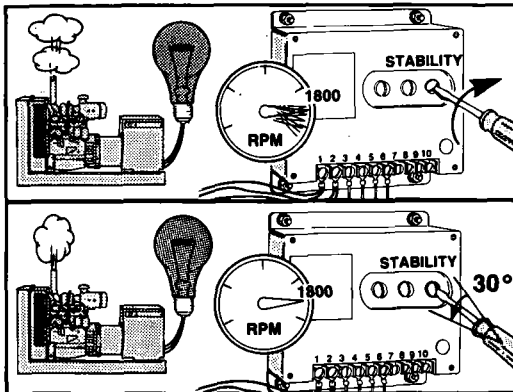
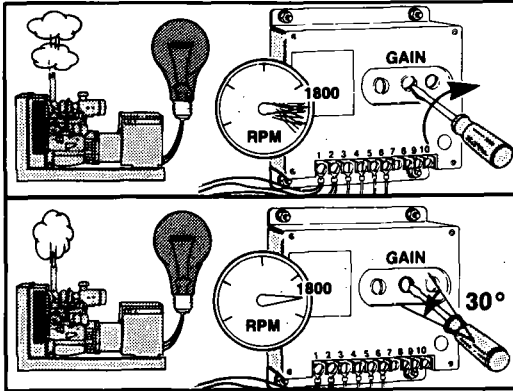


- 3.5. Start the generator set.



- 3.6. Adjust to the desired frequency (50 or 60 Hz) by adjusting the SPEED potentiometer (pot) (clockwise to increase).





4. PERFORMANCE ADJUSTMENTS

- 4.1. Once the desired frequency is obtained (50 or 60 Hz), the two performance adjustments, GAIN and STABILITY, can be made as follows.

At the no load, slowly rotate the GAIN adjustment on the SPEED CONTROL unit clockwise until the engine surges. IF SURGING DOES NOT OCCUR WITH THE GAIN ADJUSTMENT IN THE FULLY CLOCKWISE DIRECTION, MOVE THE FUEL LEVER TO INDUCE SURGING. Rotate the screw counterclockwise 30 degrees to regain stability.

- 4.2. Slowly rotate the STABILITY adjustment clockwise until surging returns. Rotate the screw counterclockwise 30 degrees to regain stability.

- 4.3. Load may now be applied to the generator set. If necessary, repeat the first two steps until optimum performance is obtained. Normally, the critical condition for GAIN and STABILITY adjustment is at NO load.

- 4.4. The optimum adjustment of both controls is in the maximum clockwise position where the best response and stability are obtained under all operating conditions. Backing off slightly from this position will allow for changing conditions that may affect the dynamic response of the engine. If a load bank and recorder are available, use them to make and verify performance. If a stable system cannot be obtained, refer to the Troubleshooting Procedures in Section 5.

ASSEMBLY PROCEDURE

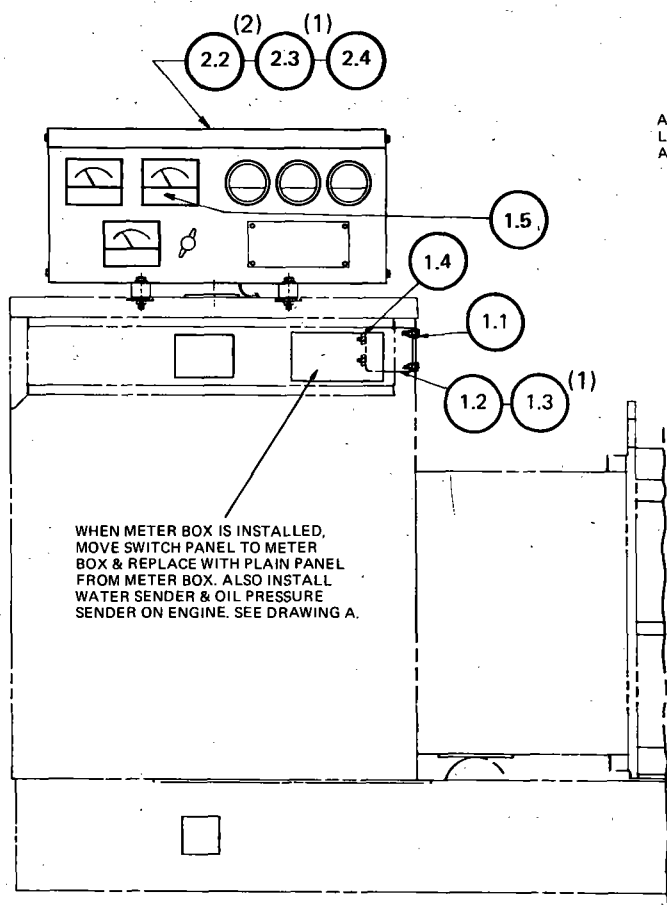
This bill of material is organized in the recommended order of assembly. The assembly number is shown on the drawing, is marked inside a circle and points to the detail of each part. Where the assembly pro-

cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

ASS'Y NO.	PART NO.	DESCRIPTION	QTY.	OPTION NO.			
				GP- 9901	EG- 9902	EG- 9915	EG- 9921
1.1	S607	Washer, Lock #10	6		x	x	x
	134557	Washer, Plain #10	6		x	x	x
	192861	Screw, Round Head Cap #10-24 x 1	6		x	x	x
	103266	Nut, Regular Hexagon, #10-24	6		x	x	x
1.2(1)	3905286	Transformer, Current 250/5	3		x		
	3905287	Transformer, Current 400/5	3			x	
	3906015	Transformer, Current	3				x
1.3(1)	3904933	Wire, Electrical	2		x	x	x
1.4	S692	Washer, Lock #8	6		x	x	x
	70715	Washer, Plain #8	6		x	x	x
	S215	Nut, Regular Hexagon #8-32	6		x	x	x
1.5	3904932	Ammeter	1	x			
	3904935	Ammeter	1		x		
	3906014	Ammeter	1				x
2.1	3904931	Plug, Orifice	1	x			
2.2(2)	3904136	Meter Panel	1	x			
2.3(1)	3904893	Harness, Wiring	1	x			
2.4	3905231	Clamp, Wire Tie	2	x			
2.5	3905544	Screw, Hexagon Head Cap, 1/4-20 x 3/8	4	x			
	181466	Washer, Lock	8	x			
	146157	Washer, Plain 1/4	4	x			
	S224	Nut, Regular Hexagon, 1/4 x 20	4	x			
	3904930	Isolator, Vibration	4	x			
2.6	3904903	Unit, Oil Pr. Sending	1	x			
2.7	3905236	Nipple, Plain Pipe 1/8	1	x			
	3905237	Coupling, Plain Pipe 1/8	1	x			
2.8	3904904	Unit, Water Temp. Sending	1	x			

NOTES:

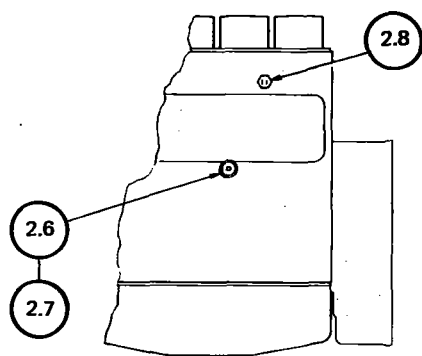
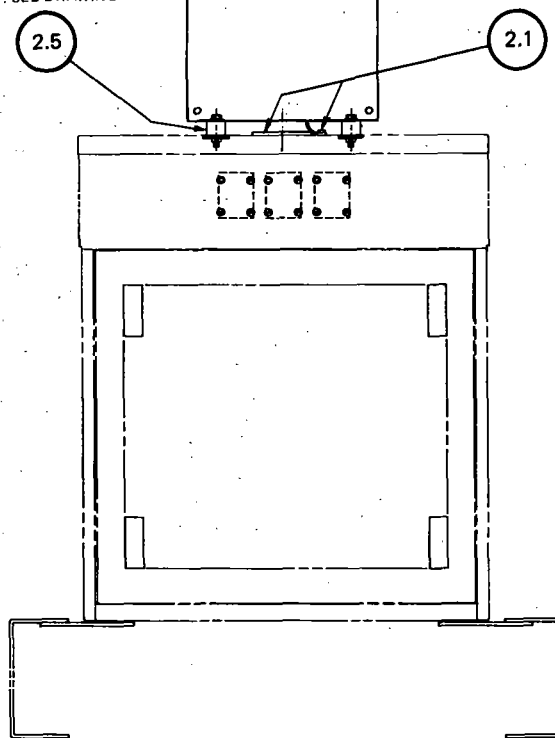
- (1) For wiring instructions, see following page. Also shows current transformer installation.
- (2) Can be installed facing either side of generator or facing towards the rear.



WHEN METER BOX IS INSTALLED, MOVE SWITCH PANEL TO METER BOX & REPLACE WITH PLAIN PANEL FROM METER BOX. ALSO INSTALL WATER SENDER & OIL PRESSURE SENDER ON ENGINE. SEE DRAWING A.

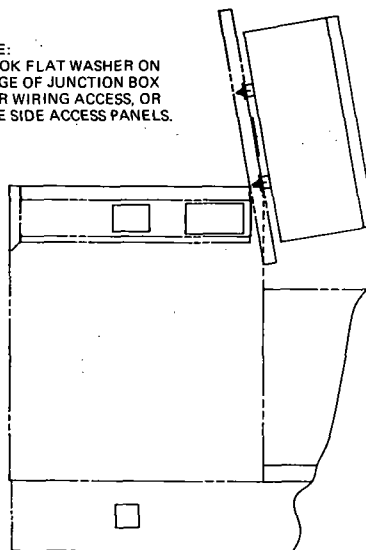
ASSEMBLE IN THIS ORDER:
LOCK WASHER, FLAT WASHER
AND NUT. SEE DRAWING B

HARDWARE FOR MOUNTING
GROUNDSTRAP TO JUNCTION
BOX COVER COMES WITH
METER BOX ASSEMBLY.



DRAWING A
LOCATION OF WATER SENDER
AND OIL PRESSURE SENDER

NOTE:
HOOK FLAT WASHER ON
EDGE OF JUNCTION BOX
FOR WIRING ACCESS, OR
USE SIDE ACCESS PANELS.



DRAWING B

METER PANEL
INSTALLATION
3904809-A

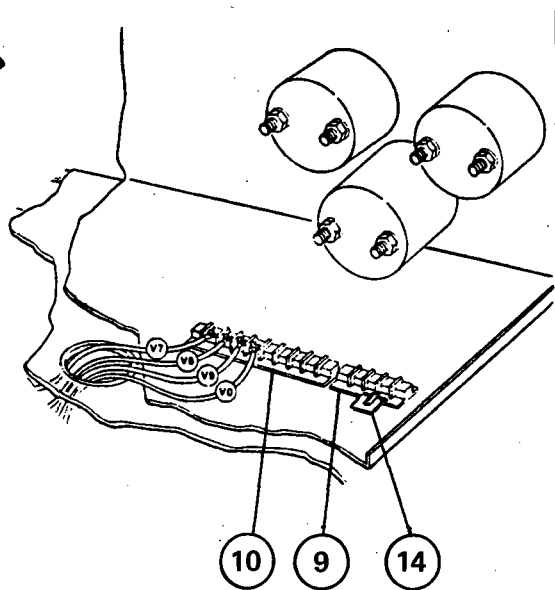
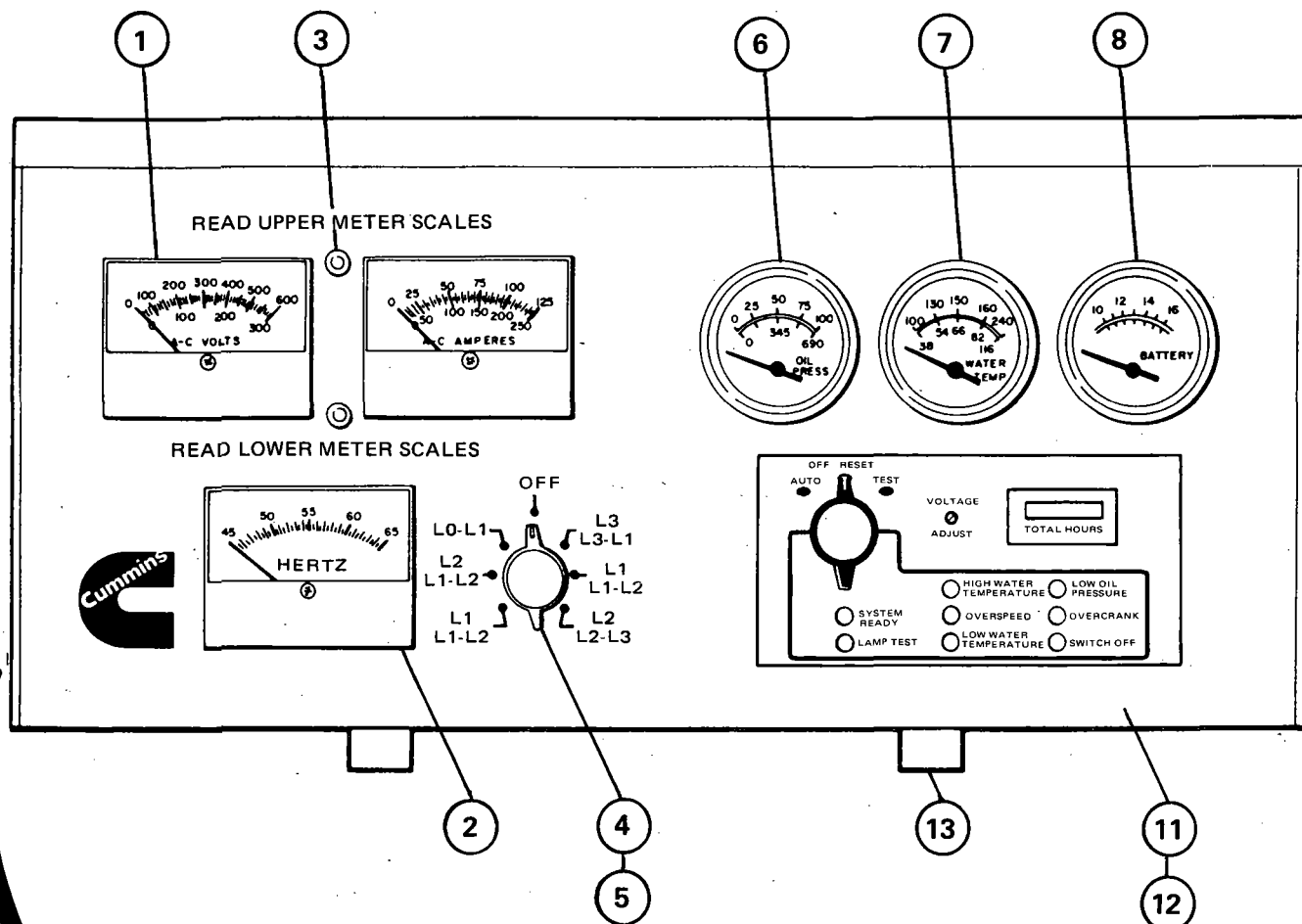
ASSEMBLY PROCEDURE

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cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

3904136: METER PANEL ASSEMBLY

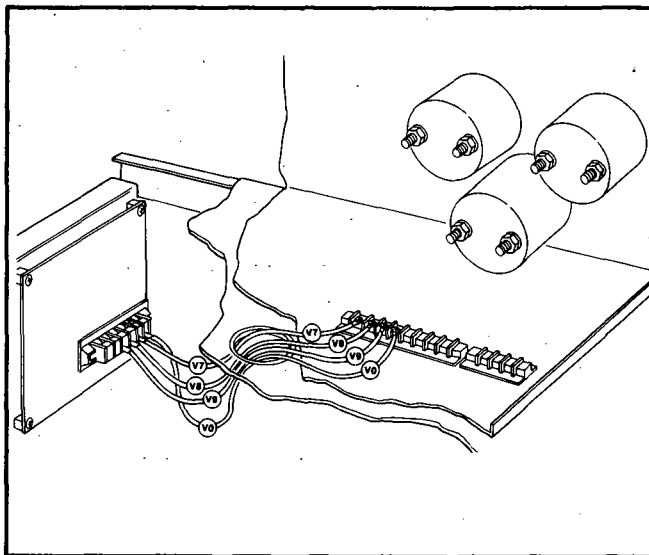
<u>ASS'Y NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
1	3904793	Voltmeter, A.C.	1
2	3904796	Frequency Meter	1
3	3903980	Upper/Lower Meter Scale Lamps	2
4	3904791	Phase Selector Switch	1
5	3904790	Phase Selector Switch Knob	1
6	3904794	Oil Pressure Gauge	1
7	3904795	Water Temperature Gauge	1
8	3903973	Battery Voltmeter Gauge	1
9	3907126	Terminal Strip, Meter Scale	1
10	3907125	Terminal Strip, Main	1
11	3903959	Housing (Screened)	1
12	3903697	Rear Panel	1
13	3904930	Isolators	4
14	3907127	Lower/Upper Meter Scale Jumper	1



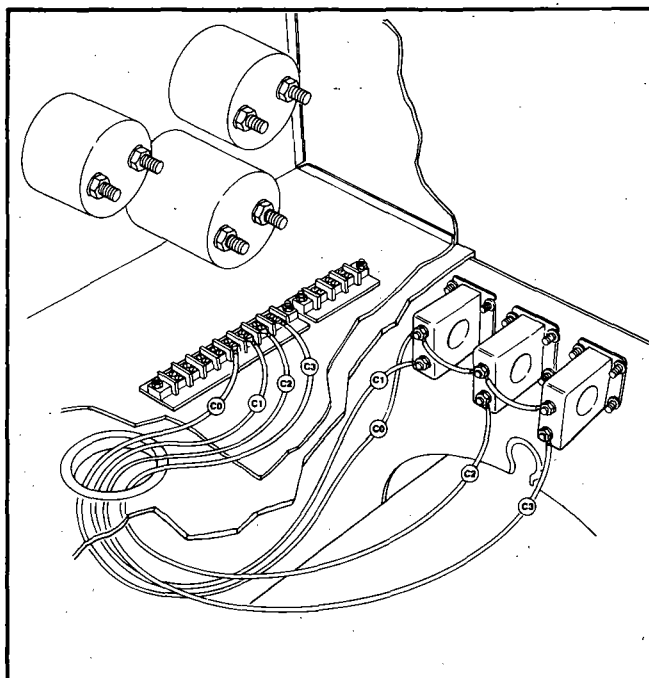
METER PANEL & AMMETER/CURRENT TRANSFORMER -- WIRING INSTRUCTIONS

CONNECT THE WIRING AS ILLUSTRATED

Also attach 6 pin plug from meter panel engine gauges to 6 pin male plug on the auto or manual start control boards or to the engine wiring harness for the NFRA control panel.



CONTROL BOARD TO METER PANEL WIRING
(Note: Actual terminal strips incorporate V7, V8, V9, V10 markings)



CURRENT TRANSFORMER TO METER PANEL WIRING

ASSEMBLY PROCEDURE

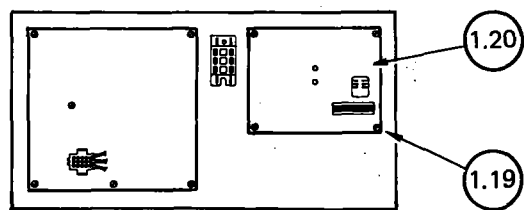
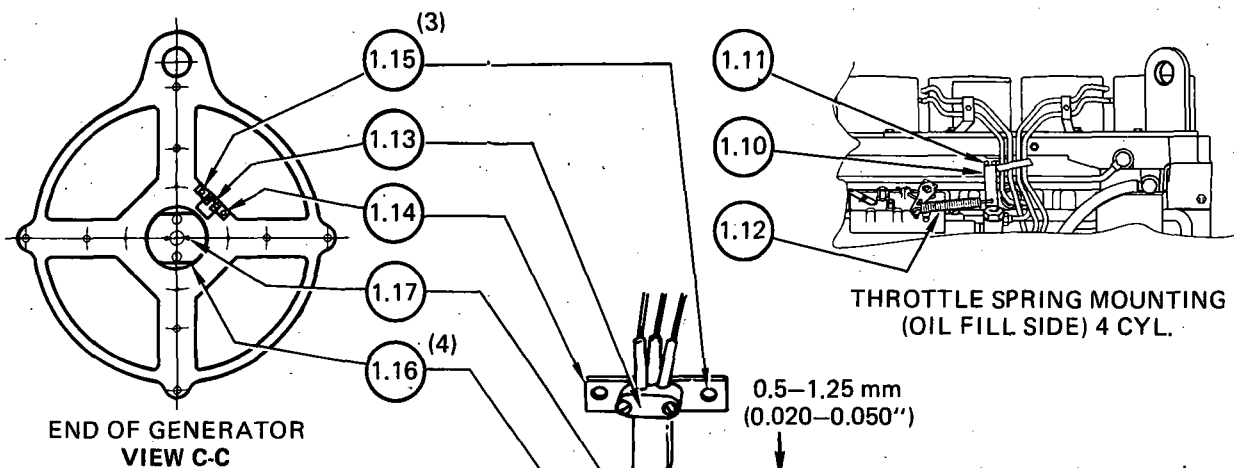
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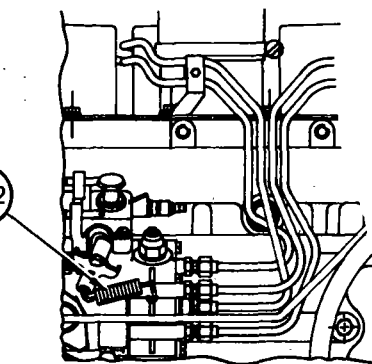
ASS'Y NO.	PART NO.	DESCRIPTION	QTY.	OPTION NO.			
				SD- 9904	EG- 9927	EG- 9914	SD- 9905
1.1	3903981	Bracket, Relay	1	x			x
1.2	3904905	Solenoid, Starter	1	x			x
1.2a	S-257	Nut, Hex. #10--32	2	x			x
1.3	3905554	Screw, H.C. 1/4- 20 x 3/8	2	x			x
	181466	Washer, Lock 1/4	2	x			x
	146157	Washer, Plain 1/4	2	x			x
	S224	Nut, Hex. 1/4-20	2	x			x
1.3	3904930	Mount, Vibration	2	x			x
1.4	3905547	Screw, H.C. M12--1.75 x 20	2	x			x
	S608	Washer, Int./Ext. Tooth 1/2	1	x			x
1.5(1)	3905300	Switch, High Temp. Shutdown	1	x			x
1.6(1)	3905509	Temperature, Pre-alarm Switch (Red)	1	x			x
1.7(1)	3905513	Switch, Low Temperature (Black)	1	x			x
1.8(2)	3905299	Switch, 8 psi Oil Pressure	1	x			x
	3905236	Nipple, Pipe 1/8	1	x			x
	3905237	Coupling, Pipe 1/8	1	x			x
1.9(2)	3905512	Switch, 15 psi Oil Pressure	1	x			x
1.10	3905515	Bracket, Spring	1	x			x
1.11	3900225	Screw, H.C. M8-1.25 x 16	2	x			x
1.12	3904807	Spring, Throttle	1	x			x
1.13	S600	Washer, Shakeproof #4	2	x			x
	145249	Screw, R.H.M. #4--40 x 7/8	2	x			x
	3905507	Magnetic Sensor (Pick Up)	1	x			x
1.14	3905510	Bracket, Sensor Mtg.	1	x			x
1.15(3)	S607	Washer, Lock #10	2	x			x
	S1326	Screw, H.C. #10--24 x 5/8	2	x			x
1.16	3905511	Actuator, Magnetic	1	x			x
1.17(4)	110665	Screw, H.C. #10--24 x 3/8	2	x			x
1.18	3905508	Button, Plug	1	x			x
1.19	127007	Screw, R.H.M. #8--32 x 5/8	4	x			x
	3905296	Grommet, Plastic	4	x			x
1.20	3904929	Interconnection Assembly	1	x			x
	3909729	Relay, VBU	1	x			x
	3907114	Diode	1	x			x
1.21(5)	3905514	Board, Circuit	1	x			x
1.22(6)	3904606	Bracket, Harness Support	1	x			x
1.23	S692	Washer, Lock #8	2	x			x
	101996	Screw, R.H.M. #8--32 x 3/8	2	x			x
	S215-A	Nut, Hex. #8	2	x			x
1.24(7)	3909798	Panel Assembly	1	x			x
1.25	3905545	Screw, Drill #8--18	4	x			x
2.1(8)	3907900	Wiring Harness, NFPA, 76A	1		x		
	3905532	Wiring Harness, NFPA 76A	1			x	
	3904135	Wiring Harness	1	x			x

NOTES:

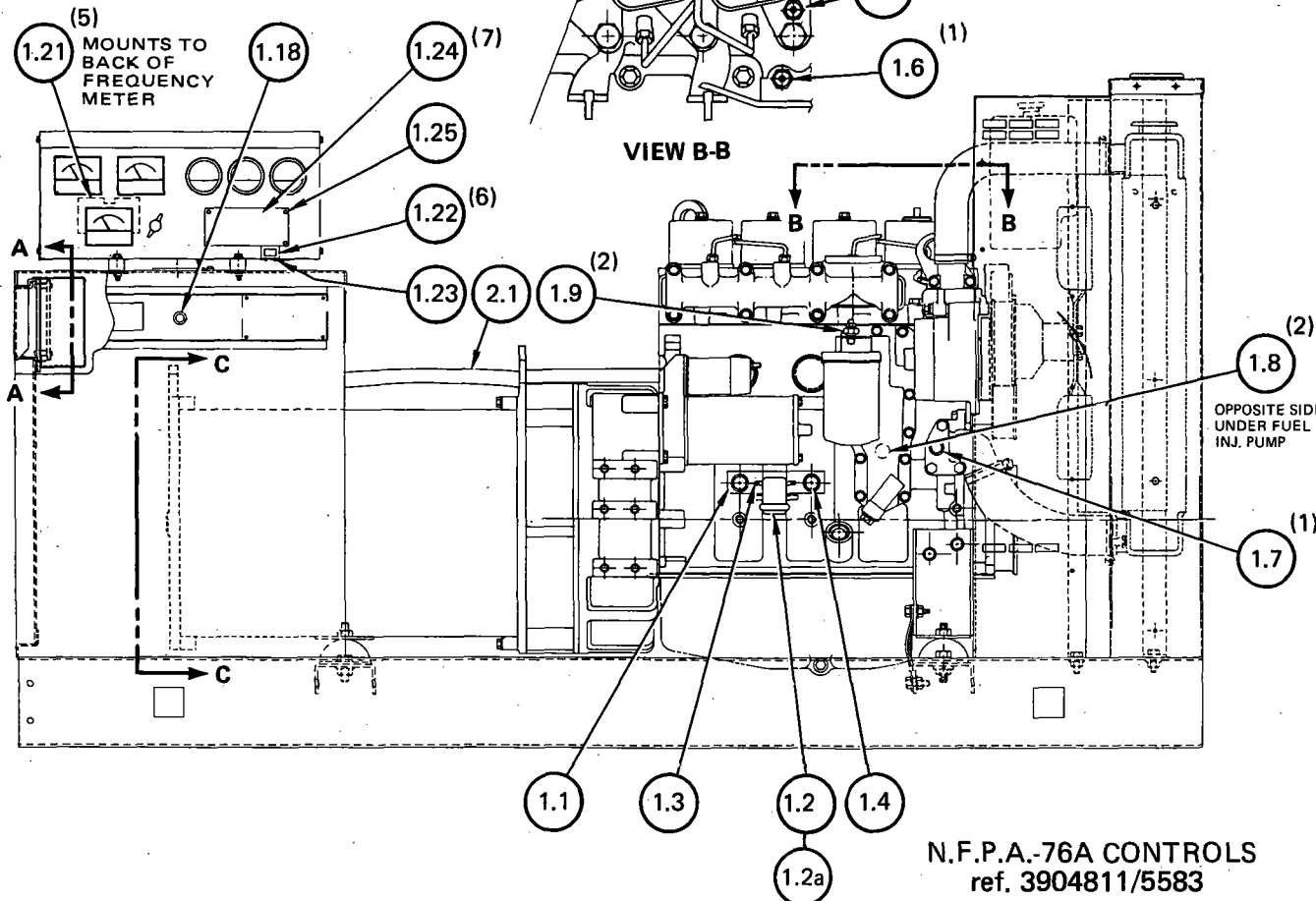
- (1) The three coolant temperature senders must be placed in the locations as shown on the drawing to ensure they are connected to the correct wiring harness leads. Item 1.6 is the pre-alarm switch which has a red colored barrel and one screw connection. 1.5 is the high temp. switch with a black colored barrel and one screw connection. 1.7 is the low temperature switch which has a black barrel and two electrical screw terminals.
- (2) Item 1.8 is marked "--8B" and is the low oil pressure shutdown switch. Item 1.9 is marked "--15B" and is the pre-alarm low oil pressure switch. Be sure not to interchange these two.
- (3) Leave screws item 1.15 loose, until 1.16 and 1.17 are installed.
- (4) After tightening item 1.17, secure screws (1.15) leaving a 0.020--0.050 inch (0.5-1.25mm) gap between the magnetic sensor and actuator.
- (5) Remove the top of the meter box and mount the circuit board (1.21) to the rear of the frequency meter by removing the nuts securing the two meter leads, place the board onto the two studs and replace the nuts to hold both circuit board and leads in place.
- (6) Mount to pre-drilled holes towards the rear of meter panel.
- (7) Remove the meter box rear panel and replace it with the solid state panel, making sure the screws are installed from underneath. Then install the control panel assembly, part no. 3909798, in the front of the meter panel. (See next pages for sub-assembly.)
- (8) For wiring instructions, see the following pages.



REAR OF JUNCTION BOX
VIEW A-A



THROTTLE SPRING MOUNTING
(OIL FILL SIDE) 6 CYL.



N.F.P.A.-76A CONTROLS
ref. 3904811/5583

ASSEMBLY PROCEDURE

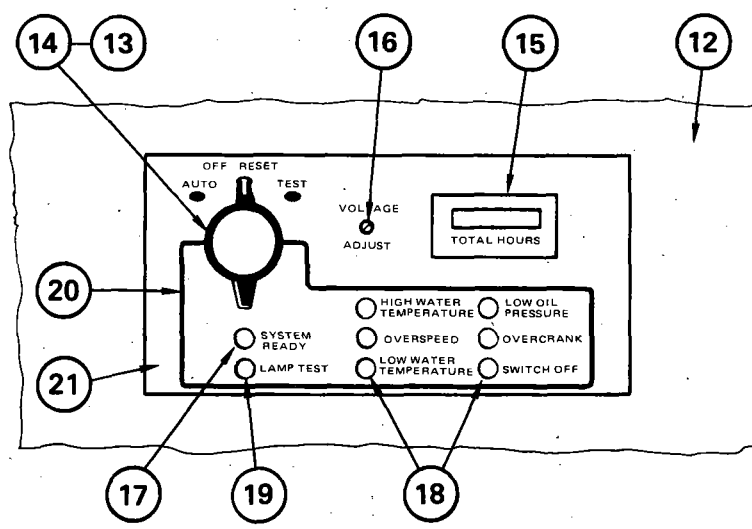
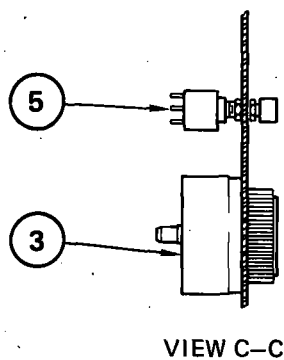
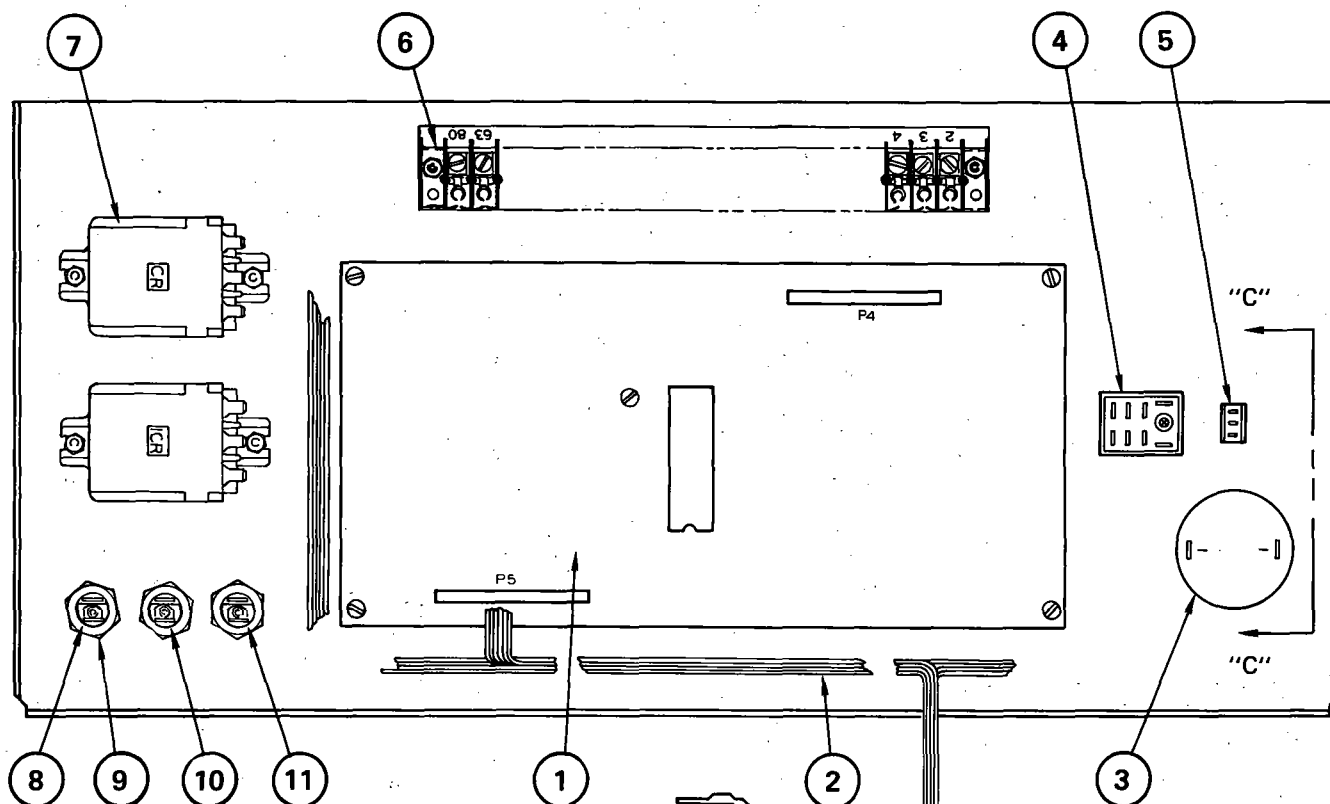
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cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

<u>ASS'Y NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
1	3904805	Microprocessor Circuit Board	1
2	3909796	Wiring Harness	1
3	3907123	Alarm Horn	1
4	3907124	Alarm Horn Relay	1
5	3904804	Alarm Horn Silence Switch	1
6	3907122	Terminal Strip	1
7	3904801	ICR Relay	1
7	3904801	CR Relay	1
8	3905304	Fuse Holder	3
9	3904800	Fuse, Annunciator Panel (3 Amp.)	1
10	3904802	Fuse, Microprocessor Board (4 Amp.)	1
11	3904803	Fuse, Engine Wiring Harness (15 Amp.)	1
12	3904607	Front Control Panel Assembly	1
13		Three Position Switch	1(1)
14		Knob	1(1)
15	3904621	Hourmeter	1
16	3904936	Voltage Adjustment Rheostat	1
17	3903954	Lens Cover, Green	1
18	3903953	Lens Cover, Red	6
19	3904804	Lamp Test Pushbutton	1
20	3904608	Front Panel Circuit Board	1
21	3907121	Front Panel Face	1

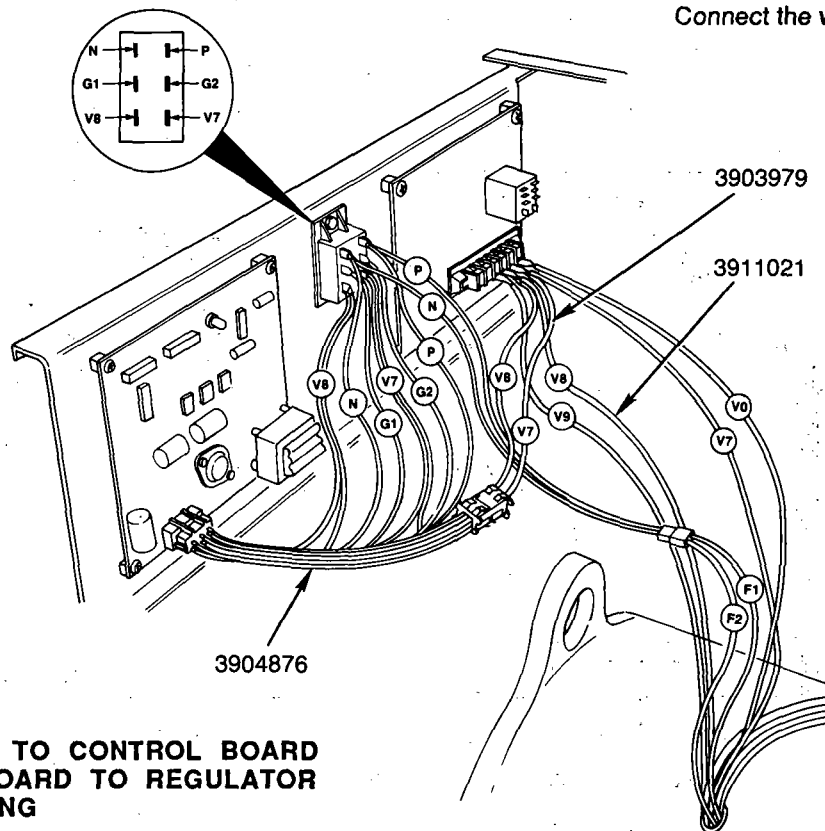
NOTE:

(1) Items 13 & 14 have been replaced by a toggle switch (3912341)



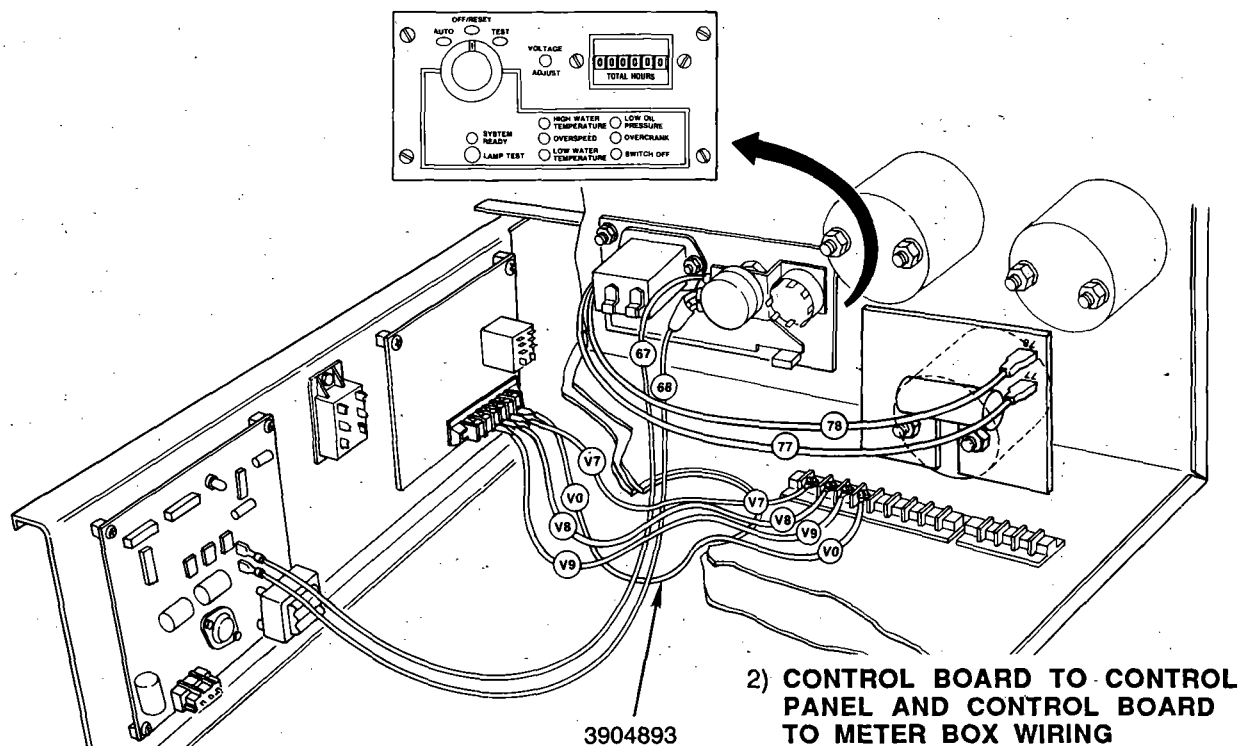
OPTION SD 9904: -NFPA-76A CONTROL PANEL -- WIRING INSTRUCTIONS

Connect the wiring as illustrated:



Fuse Block
3911020
3911019
8 AMP
Rectifier
Fuse (3)

- 1) GENERATOR TO CONTROL BOARD
CONTROL BOARD TO REGULATOR
BOARD WIRING

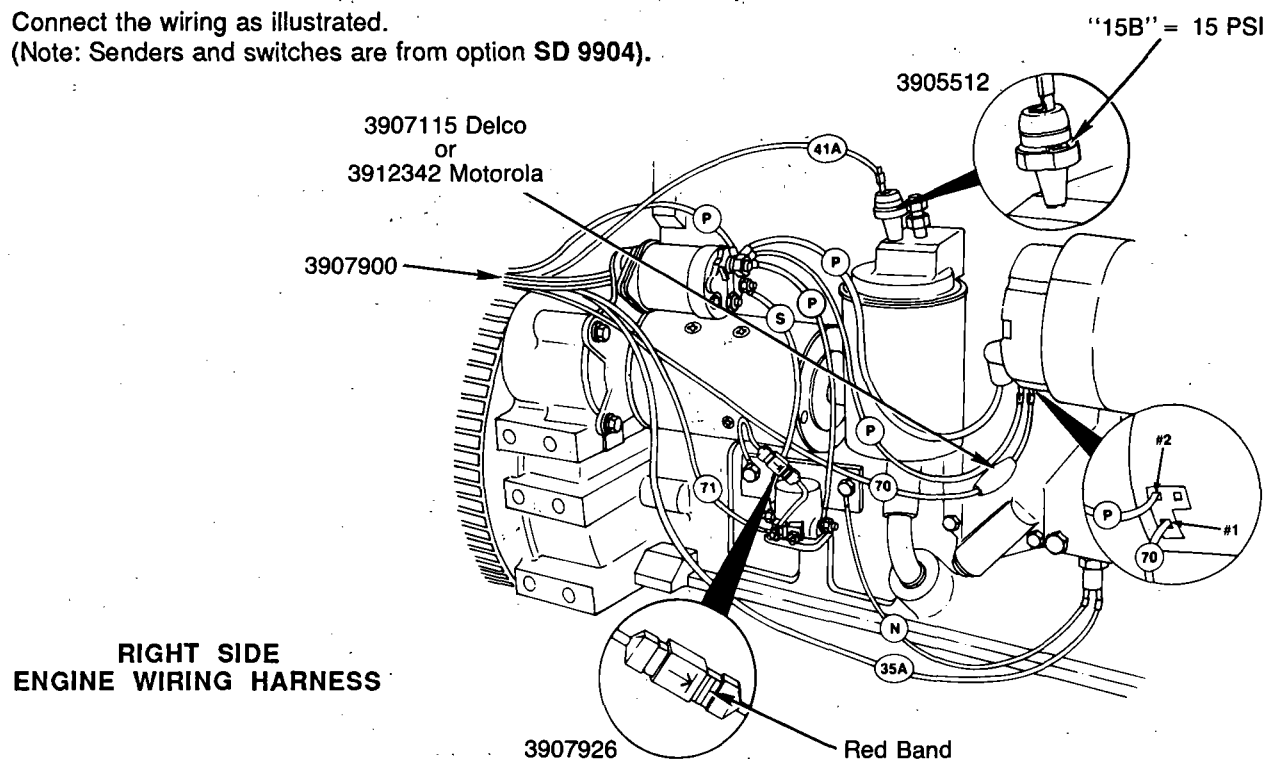


- 2) CONTROL BOARD TO CONTROL
PANEL AND CONTROL BOARD
TO METER BOX WIRING

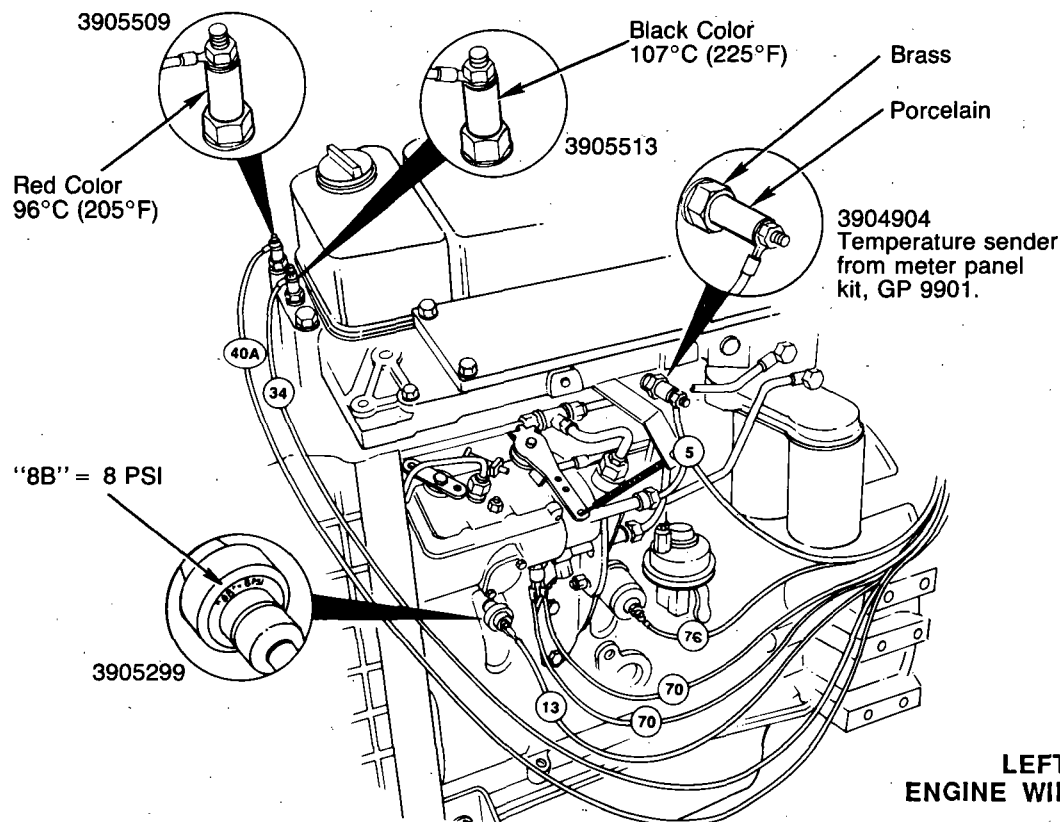
OPTION EG 9927 & EG 9914: NFPA CONTROL PANEL WIRING HARNESS WIRING INSTRUCTIONS

Connect the wiring as illustrated.

(Note: Senders and switches are from option SD 9904).



**RIGHT SIDE
ENGINE WIRING HARNESS**



**LEFT SIDE
ENGINE WIRING HARNESS**

**OPTION EG 9927 & EG 9914: NFPA WIRING HARNESS
INSTALLATION TO GENERATOR/METER PANEL**

(NOTE: Requires an NFPA control panel, option **SD 9904**, & meter panel option **GP 9901**)

1. Place the wiring harness through the hole in the front of the generator junction box with the large black plug inside the junction box and attach the rubber grommet in place in the junction box hole.

Take the brown wire and attach the three leads to the magnetic sensor (1.13) on the end of the generator as follows:

Terminal 16: White wire
Terminal 24: Red wire
Terminal 2: Black wire

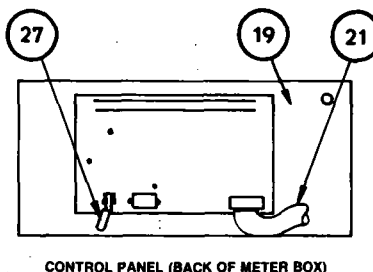
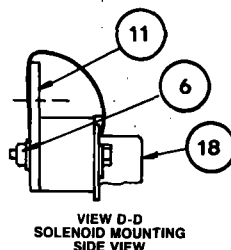
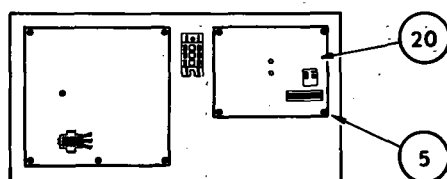
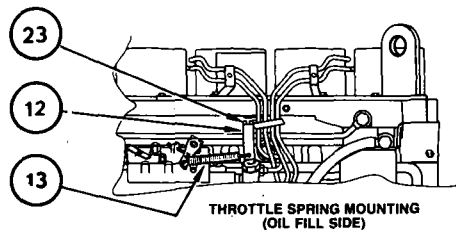
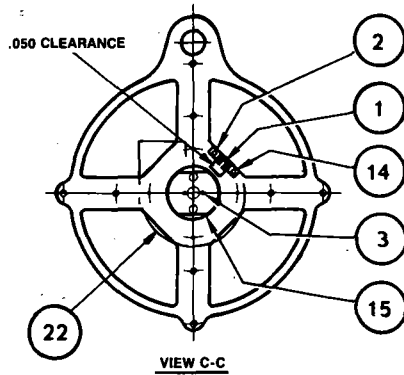
2. Attach wire number "65" to terminal 65 on the terminal strip of the interconnection assembly (1.20) mounted on the rear of the generator junction box.
3. Attach wire marked "B" to terminal number 6 on the voltage build-up relay on the same interconnection assembly board.
4. After installing the NFPA solid state board to the back of the meter panel, attach the 20 pin plug to the 20 pin male plug which has been held by the wiring harness support (1.22) which is attached to the base of the meter panel, option **GP 9901**).
5. Join the plug with 4 wires to the female plug coming from the meter panel engine gauges (option **GP 9901**).

ASSEMBLY PROCEDURE

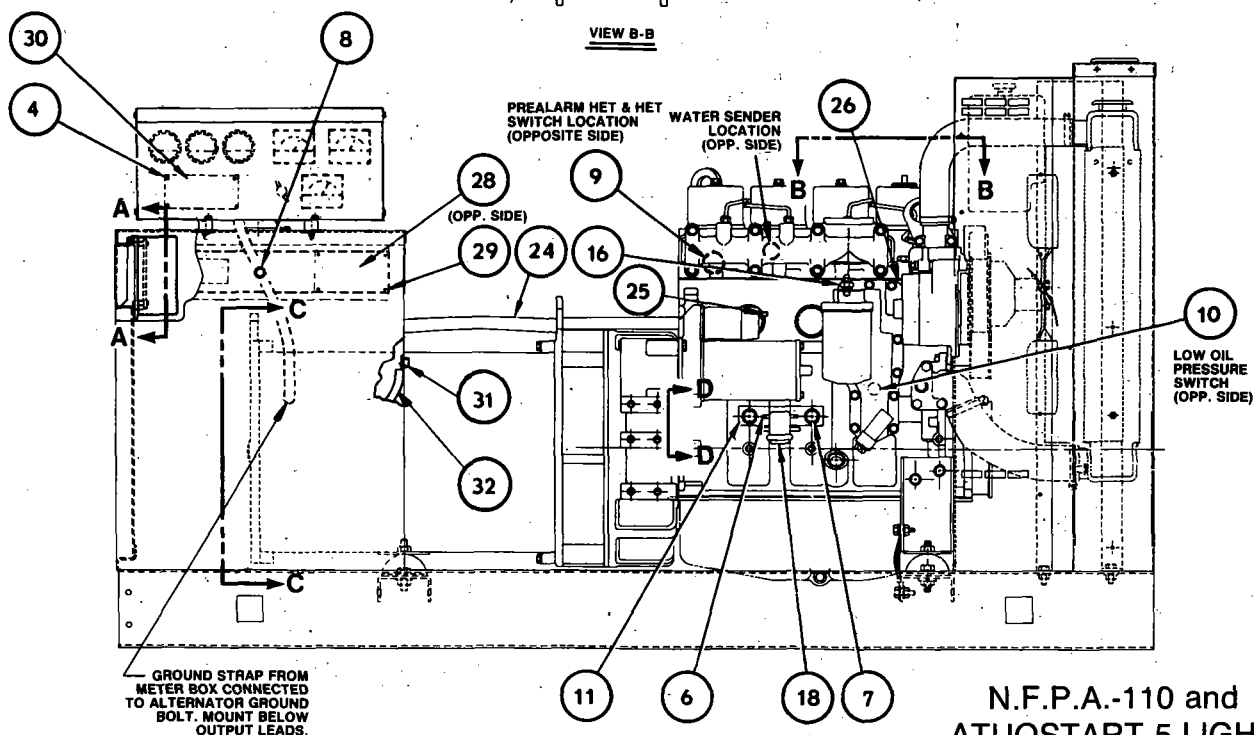
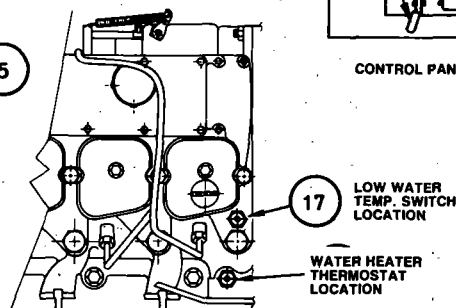
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cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

ITEM	PART NO.	DESCRIPTION	QTY.	OPTION NO.		
				SD 9913 5-LIGHT	SD 9914 NPPA-110	EG 9938 WIRING HARNESS
1		Washer, Shakeproof #4	2	x	x	
	145249	Screw, R.H.M.#4	2	x	x	
	3905507	Ferromagnetic Sensor	1	x	x	
2	S-607	Washer, Lock #10	2	x	x	
	S-1326	Screw, H.C. #10-24 x 5/8	2	x	x	
3	110665	Screw, H.C. #10-24 x 3/8	2	x	x	
4		Washer, Lock #6	4	x	x	
		Nut, Hex #6-32	4	x	x	
5	127007	Screw, R.H.M. #8-32 x 5/8	4	x	x	
	3905296	Grommet, Plastic	4	x	x	
6	3905544	Screw, H.C. 1/4-20 x 3/8	2	x	x	
	181466	Washer, Lock 1/4	4	x	x	
	146157	Washer, Plain 1/4	2	x	x	
	S-224	Nut, Hex 1/4-20	2	x	x	
		Strap, Ground	1	x	x	
	3904930	Mount, Vibration	2	x	x	
7	S-608	Washer, Int/Ext. Tooth 1/2	1	x	x	
	3905547	Screw, H.C. M-12-1.75 x 20	2	x	x	
8	3905508	Button, Plug	1	x	x	
9	3907892	Temp. Switch Dual H.E.T.	1		x	
		Bushing, Reducer	1		x	
	3905300	Temp. Switch H.E.T.	1	x		
10	3905299	Switch, L.O.P.(8 PSI)	1	x	x	
	3905236	Nipple, Pipe 1/8	1	x	x	
	3905237	Coupling, Pipe 1/8	1	x	x	
11	3903981	Bracket, Relay	1	x	x	
12	3905515	Bracket, Throttle Spring	1	x	x	
13	3904807	Spring, Throttle	1	x	x	
14	3905510	Bracket, Sensor Mounting	1	x	x	
15	3905511	Actuator, Magnetic	1	x	x	
16	3905512	Switch, P.L.O.P. (15 PSI)	1		x	
17	3905513	Switch, L.W.T. (2 Terminal)	1	x	x	
18	3904905	Solenoid, Starter	1	x	x	
	S-257	Nut, Hex. #10-32	2	x	x	
19	3911067	Panel Assembly	1	x	x	
20	3904929	Interconnection Assembly	1	x	x	
21	3911179	Cable, Ribbon	1	x	x	
22		Cover, Circuit Board	1	x	x	
	A-1326	Screw, #10-24 x 5/8	4	x	x	
		Washer, Int. Tooth -#10	4	x	x	
23	3900225	Screw, H.C. M8-1.25 x 16	2	x	x	
24	3911065	Harness, Wiring	1			x
25	3909503	Nut, Hex. M10-1.5	1	x	x	
		Nut, Hex. M5-.30	1	x	x	
26	3905548	Nut, Hex. M6-1	1	x	x	
27	3911162	Harness, Wiring	1	x	x	
28		Panel, Front	1	x	x	
29	3905545	Screw, Drill #8-18	4	x	x	
30	3911169	Panel Assembly	1	x		
	3911178	Panel Assembly	1		x	
31		Strip, Terminal	1	x	x	
	S-215	Nut, Hex #8-32	2	x	x	
	S-692	Washer, Lock #8	2	x	x	
	127007	Screw, R.H.M. #8-32 x 5/8	2	x	x	
	3911161	Strip, Marker	1	x	x	
32	3911177	Lead	1			x



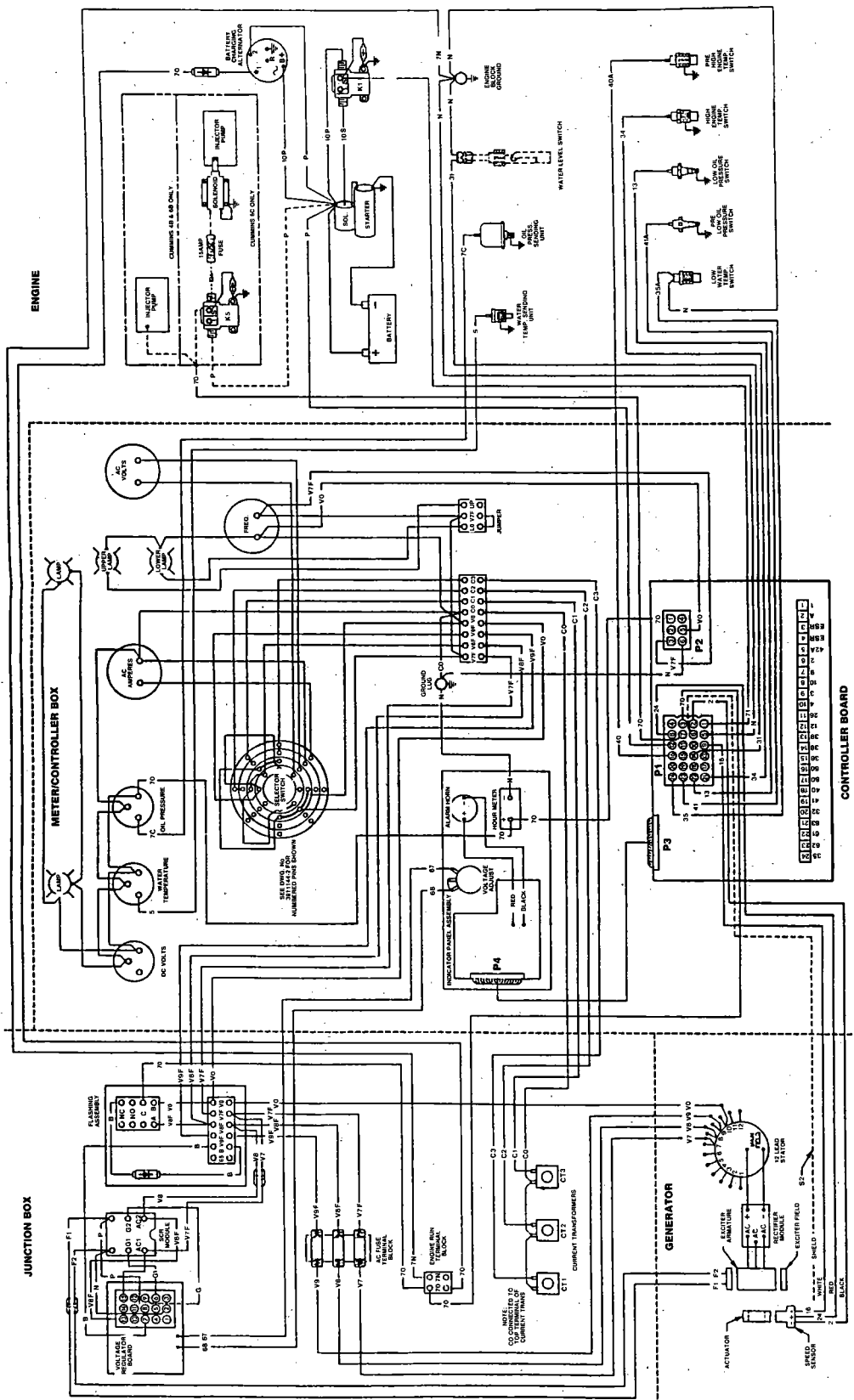
NOTE:
AFTER CONNECTING ENGINE HARNESS TO CONTROL BOARD
IN METER BOX, HARNESS SHOULD BE SECURED WITH TIE
WRAP ON ENGINE HARNESS TO STRAIN RELIEF BOLT IN
METER BOX.



NOTE:
PANEL INSTALLATION (PERFORM BEFORE INSTALLING METER BOX TO
JUNCTION BOX). REMOVE REAR PANEL FROM EXISTING METER BOX AND
DISCARD (SAVE MTG. SCREWS). INSTALL NEW PANEL 3911067, USING
EXISTING SCREWS, TO REAR OF METER BOX. INSTALL FRONT INDICATOR
PANEL IN OPENING IN FRONT OF METER BOX. CONNECT HARNESSES 3911162
& 3911179 PER WIRING DIAGRAM 3911135. AFTER INSTALLING METER BOX
TO JUNCTION BOX, ALL CONTROLS SHOULD FACE THE DIPSTICK SIDE OF
THE ENGINE.

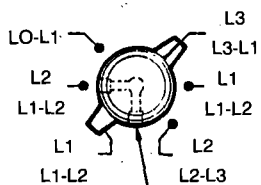
N.F.P.A.-110 and
ATUOSTART 5-LIGHT

**B SERIES
WIRING DIAGRAM**
ref: 3911068



**B and C SERIES
WIRING DIAGRAM
3911135**

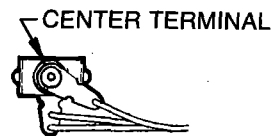
**NFPA-110/AUTOSTART
5 LIGHT (10-30)**



NOTE:
TERMINALS ON LAMP SOCKET TO BE
POSITIONED AWAY FROM CONTACT
WITH METER BOX COVER

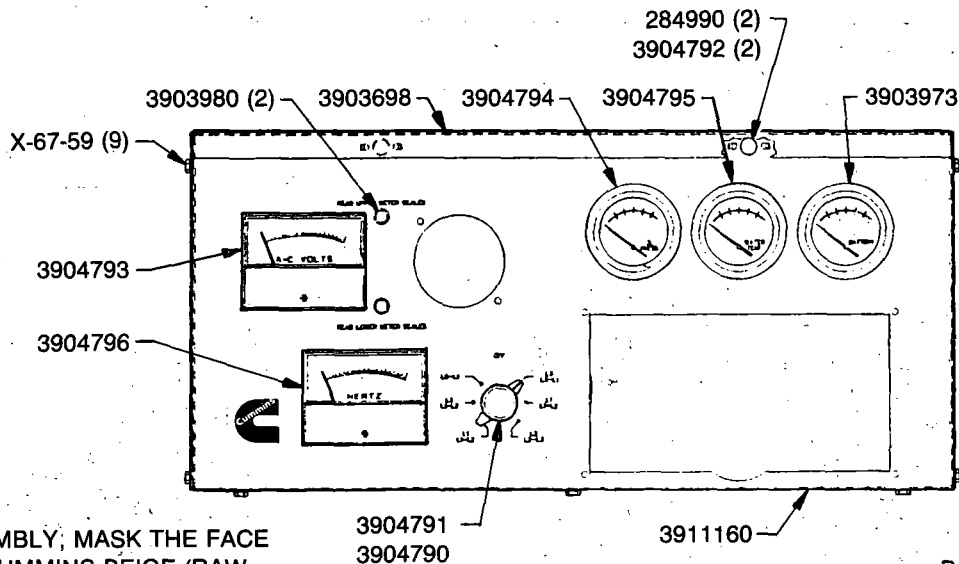
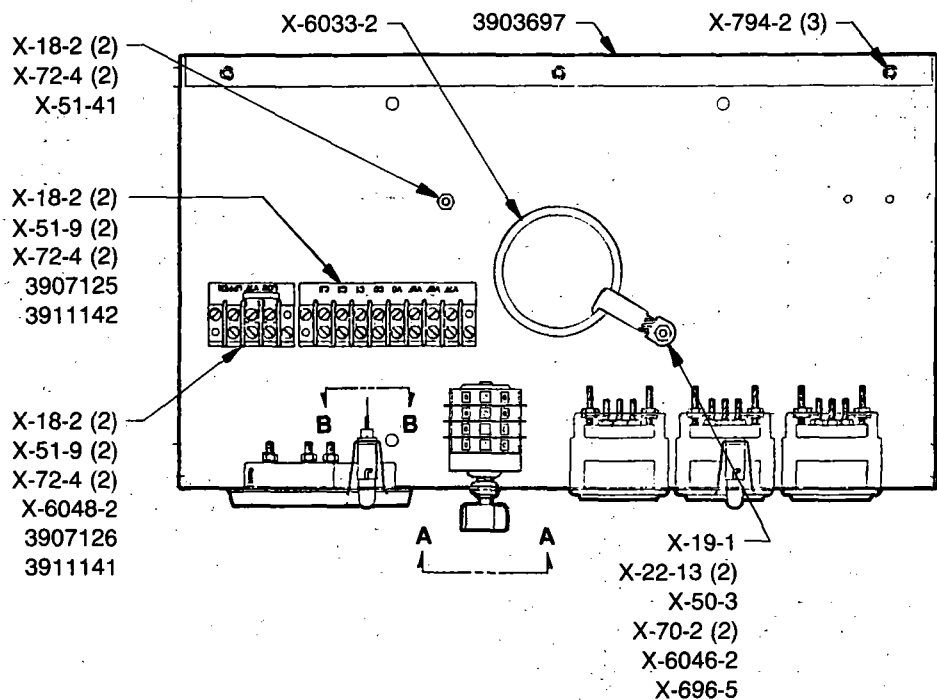
TIGHTEN THIS SET SCREW FIRST ONTO
FLAT OF SHAFT, THEN TIGHTEN
REMAINING SET SCREW

VIEW A-A



NOTE:
SELECTOR SWITCH POINTER KNOB
MUST BE ASSEMBLED AS SHOWN

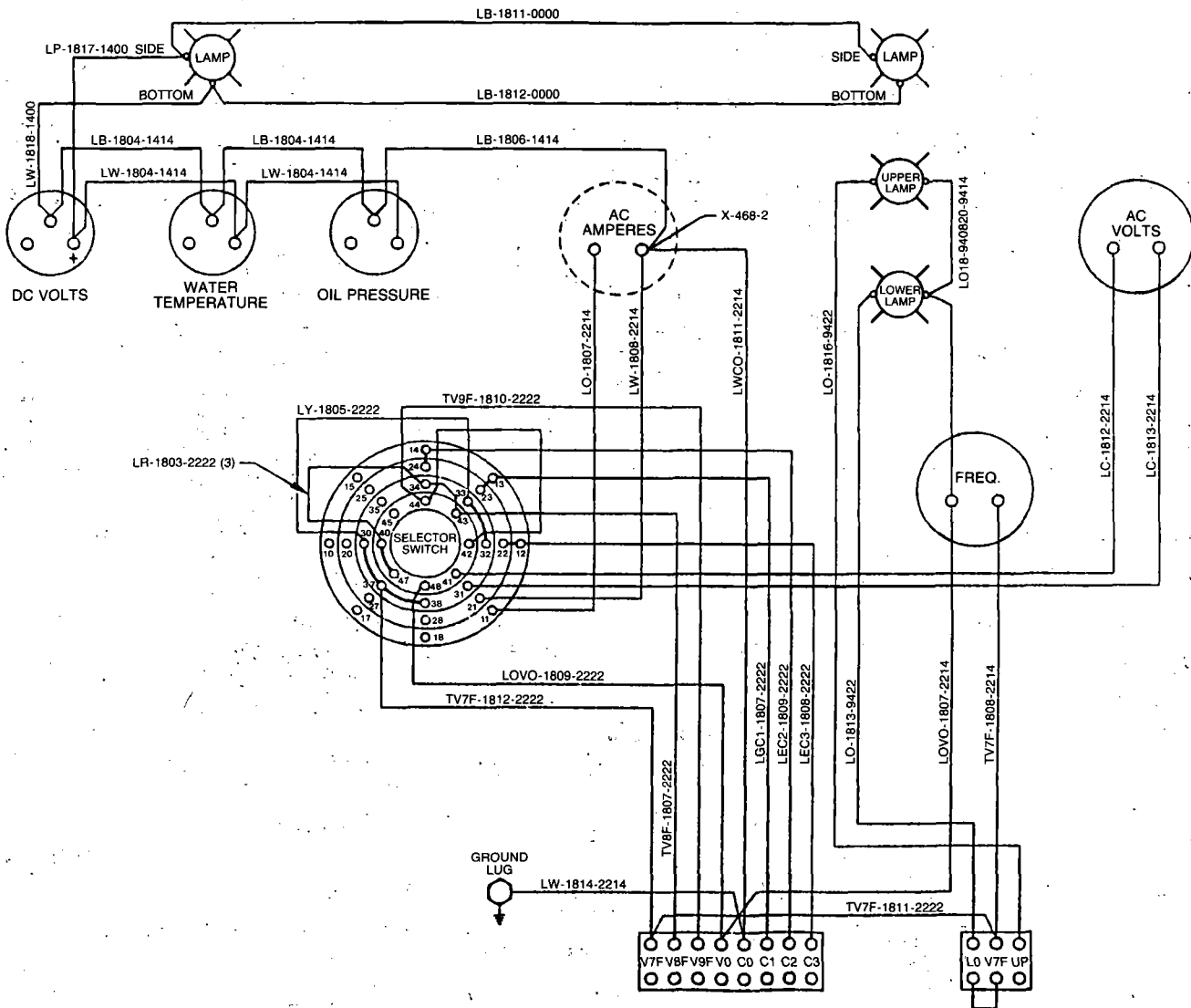
VIEW B-B



NOTES:

1. AFTER ASSEMBLY, MASK THE FACE
AND PAINT CUMMINS BEIGE (RAW
MAT'L NO. 61000 01013) PER G-57
2. TEST PER TEST PROCEDURE T-143

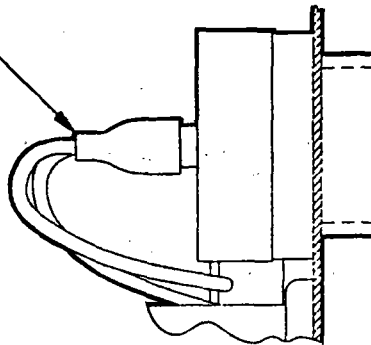
B & C SERIES
GENERATOR SET CONTROLS
BOX, METER ASSEMBLY
3911144



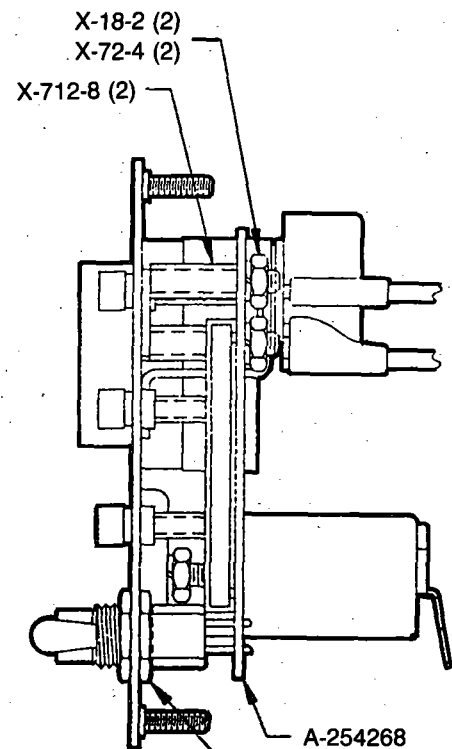
**B SERIES
WIRING DIAGRAM
3911144-2**

BOX, METER ASSEMBLY

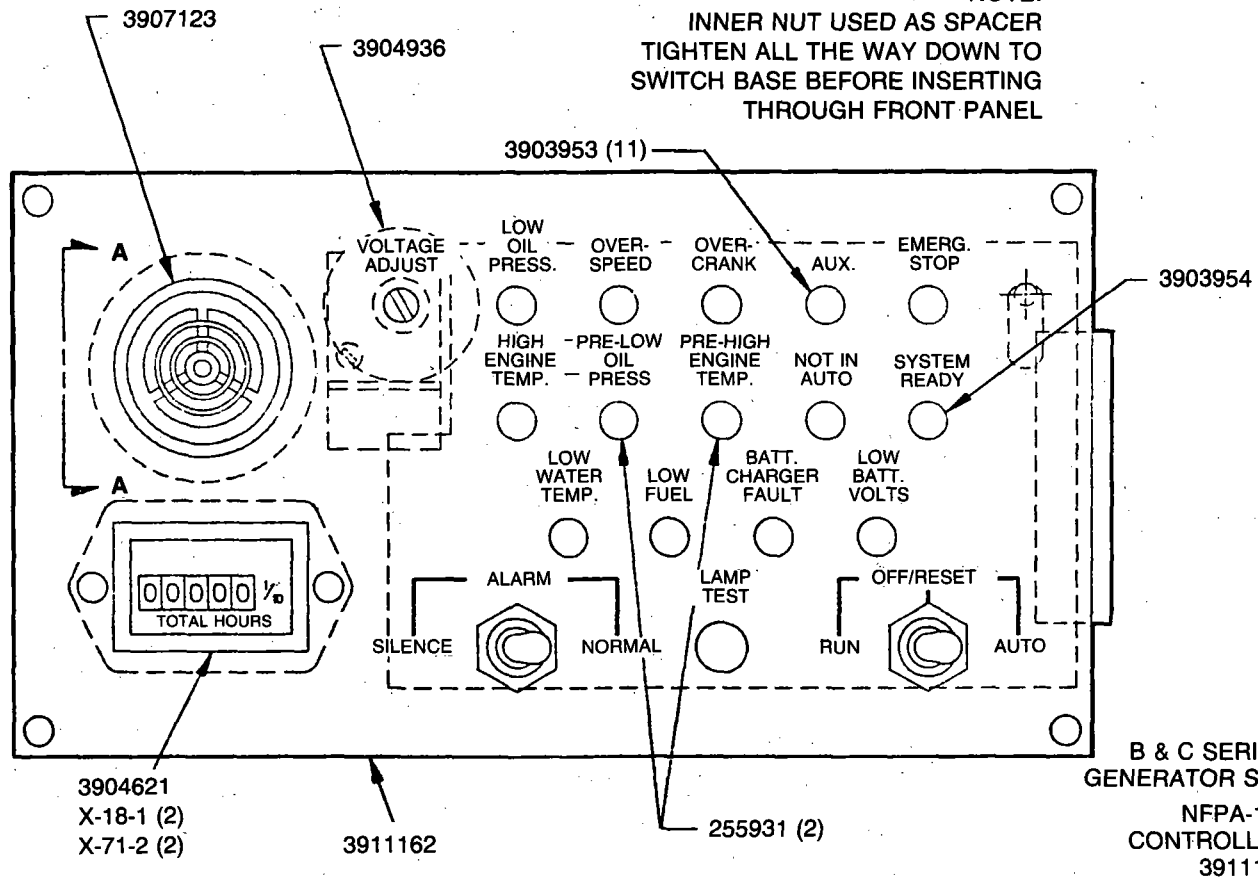
NOTE:
INSULATE TERMINALS
WITH X-731-1 (2) AND
ATTACH LEADS TO HORN:
RED TO "+" TERMINAL
BLACK TO "-" TERMINAL



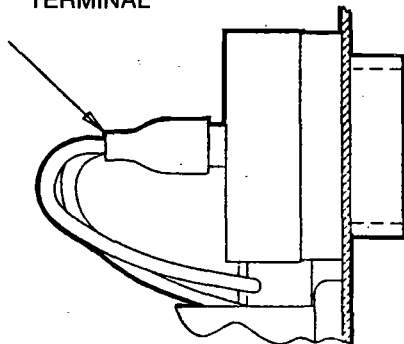
VIEW A-A



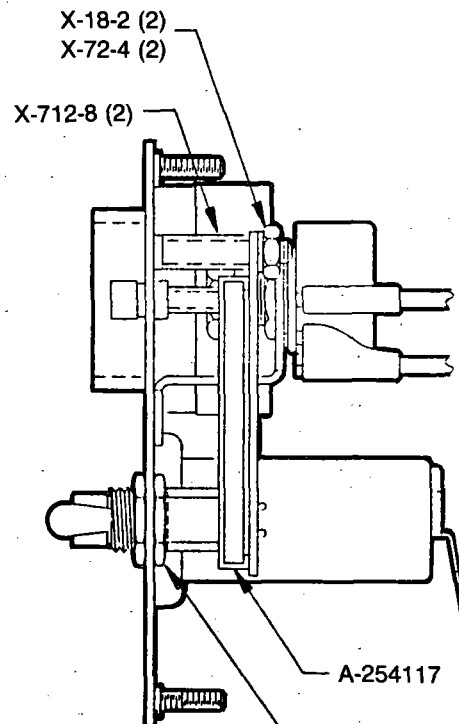
NOTE:
INNER NUT USED AS SPACER
TIGHTEN ALL THE WAY DOWN TO
SWITCH BASE BEFORE INSERTING
THROUGH FRONT PANEL



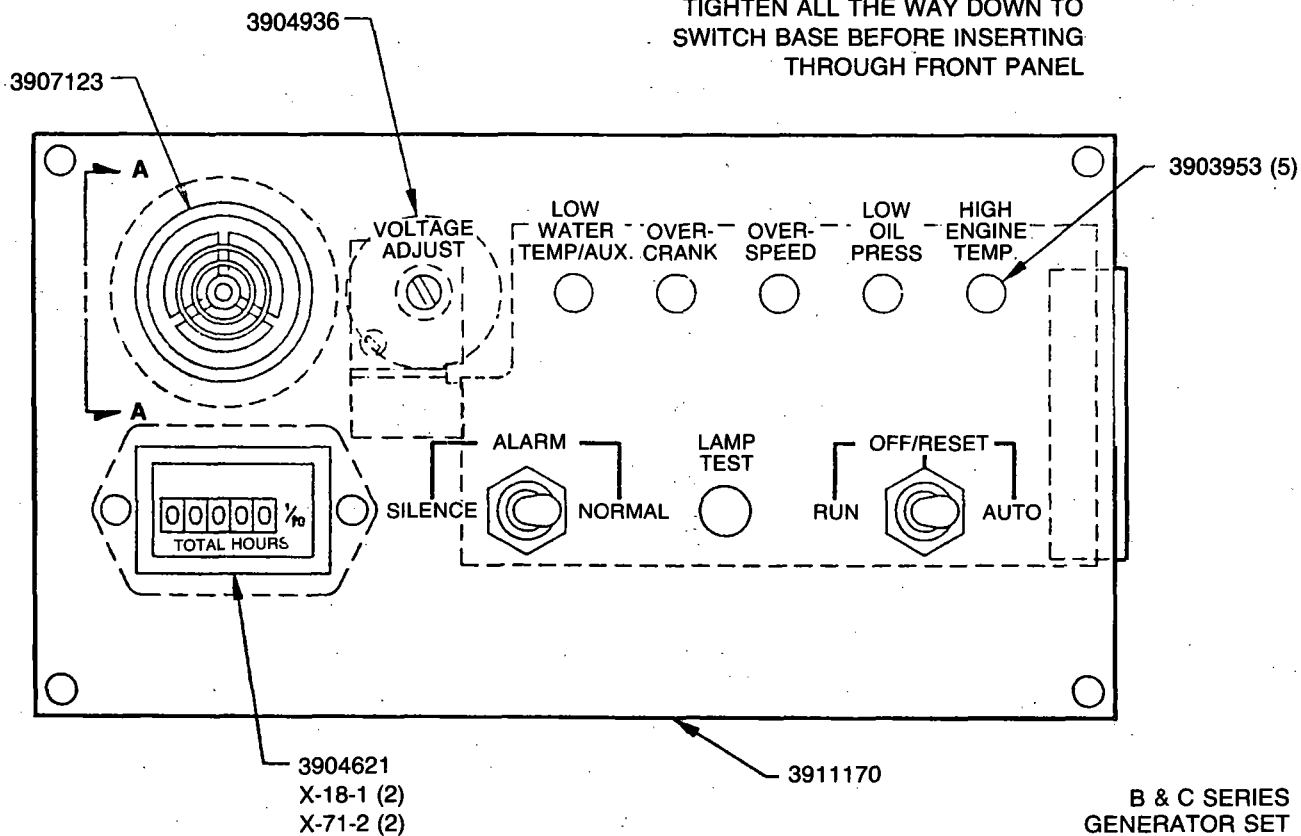
NOTE:
INSULATE TERMINALS
WITH X-731-1 (2) AND
ATTACH LEADS TO HORN:
RED TO "+" TERMINAL
BLACK TO "-" TERMINAL



VIEW A-A



NOTE:
INNER NUT USED AS SPACER
TIGHTEN ALL THE WAY DOWN TO
SWITCH BASE BEFORE INSERTING
THROUGH FRONT PANEL



B & C SERIES
GENERATOR SET
AUTOSTART
5-LIGHT CONTROLLER
3911169

ASSEMBLY PROCEDURE

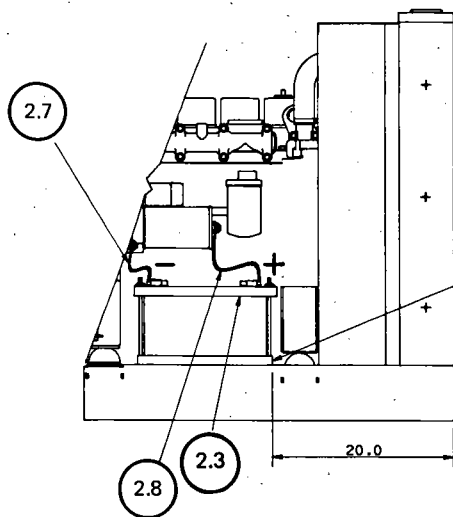
This bill of material is organized in the recommended order of assembly. The assembly number is shown on the drawing, is marked inside a circle and points to the detail of each part. Where the assembly pro-

cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

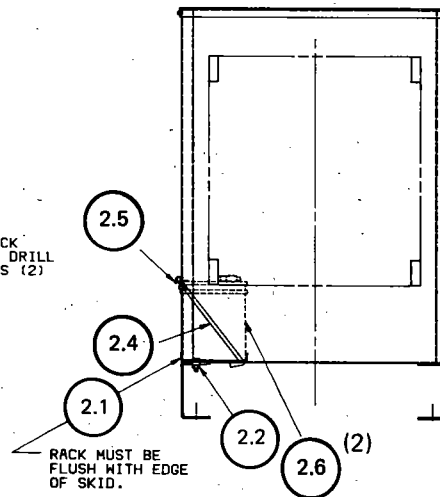
ASSY NO.	PART NO.	DESCRIPTION	QTY.	OPTION NO.		
				SB- 9901	SB- 9905	SB- 9904
	3904024	Box, Battery	1		1.1(1)(2)	
	3335041	Screw, Hexagon Head Cap M8-1.25 x 25	4		1.2	
	S604	Washer, Lock 3/8	4		1.2	
	3009219	Nut, Regular Hexagon, M8-1.25	4		1.2	
	3905266	Box, Battery	1	2.1(2)		
	3335041	Screw, Hexagon Cap M8-1.25 x 25	2	2.2		
	S604	Washer, Lock 3/8	2	2.2		
	3009219	Nut, Regular Hexagon M8-1.25	2	2.2		
	3905265	Plate, Battery Clamping	1	2.3	1.3	
	3905264	Bolt, Hook	2	2.4	1.4	
	146160	Washer, Plain 5/16	2	2.5	1.5	
	136724	Nut, Lock 5/16-24	2	2.5	1.5	
	3904025	Battery	1		1.6(3) & 2.6(2)	
	3905260	Terminal Cable (-)	1		1.7	
	3905261	Terminal Cable (+)	1		1.8	
	3905263	Terminal Cable (-)	1	2.7		
	3905262	Terminal Cable (+)	1	2.8		

NOTES:

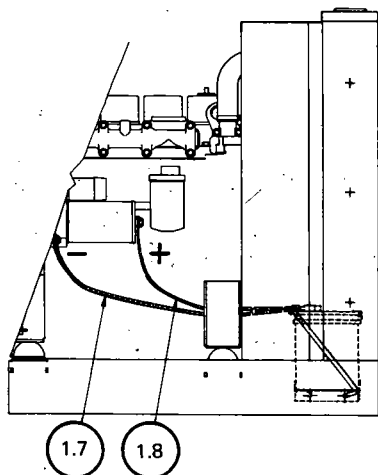
- (1) The lip of the battery box should point upwards and be towards the front of the unit. After securing the battery box, place battery in position.
- (2) Install items 1.1--1.5 and 2.1--2.5 prior to painting the unit. Install items 1.6--1.8 and 2.6--2.8 after painting the unit.
- (3) Ensure battery is not placed over the radiator drain valve.



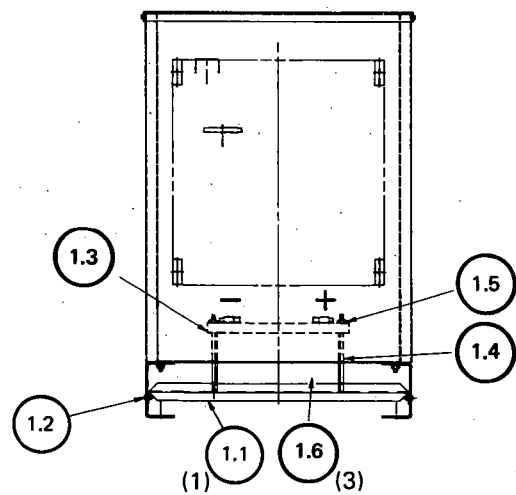
NOTE:
USE BATTERY RACK
AS A TEMPLATE. DRILL
.344 DIA. HOLES (2)
AT ASSEMBLY.



OPTION SB9901



OPTION SB9905



BATTERY RACK ASSEMBLY
4B, 4BT-1, 4BT-2
Ref. 3904873

ASSEMBLY PROCEDURE

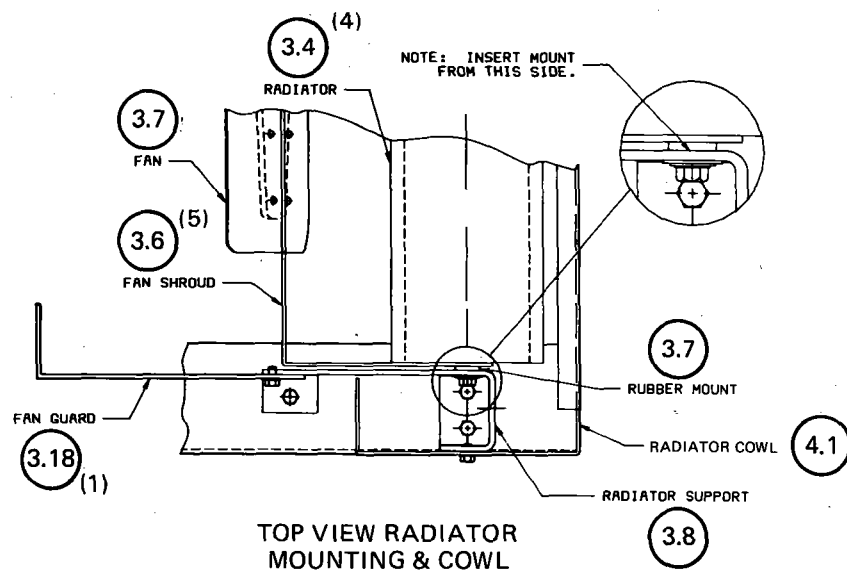
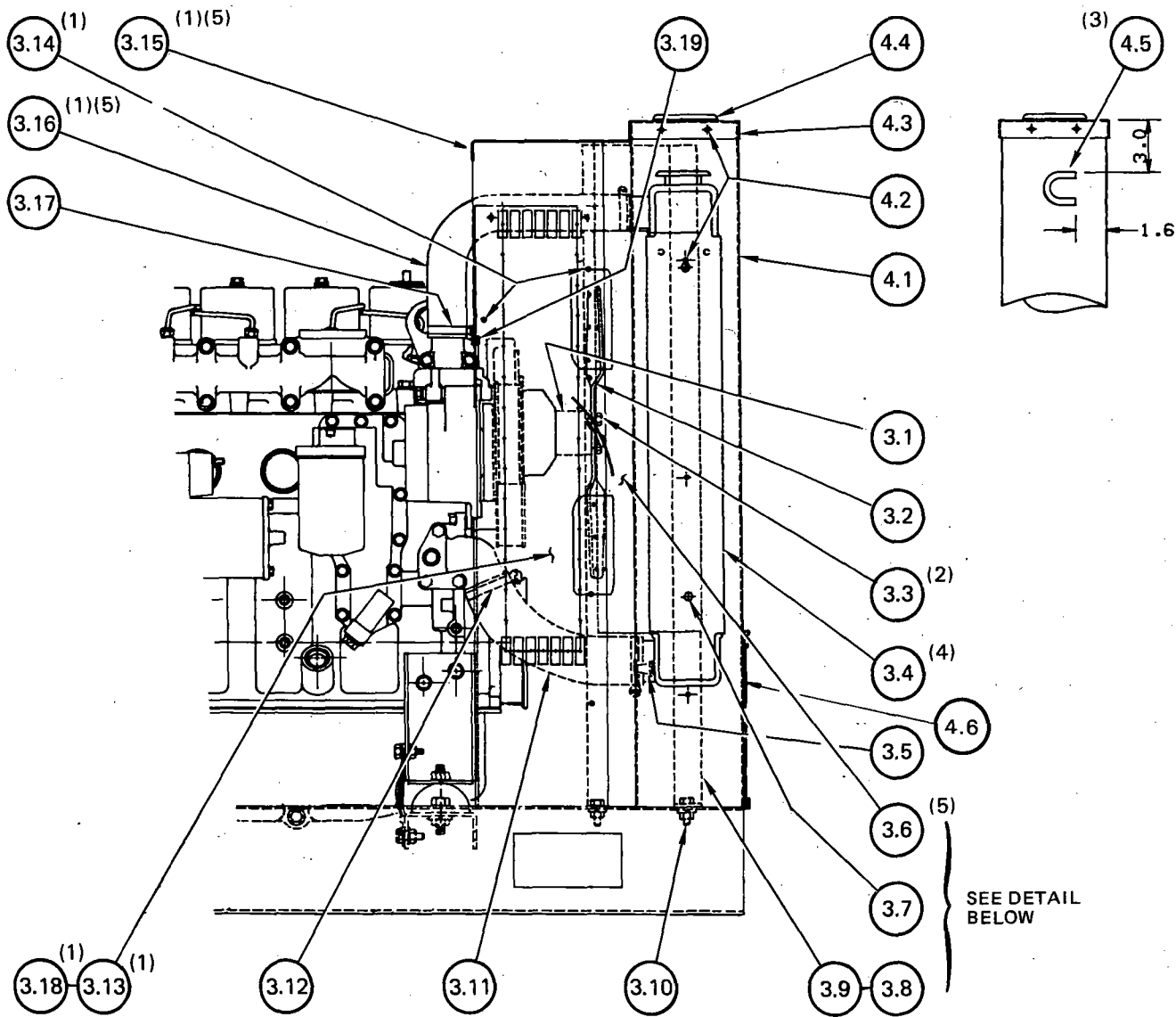
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cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

ASSY NO.	PART NO.	DESCRIPTION	QTY.	OPTION NO.								FN- 9905	FN- 9906
				RA- 9923	RA- 9902	RA- 9922	RA- 9904	RA- 9906	RA- 9903				
3.1	3904121	Spacer, Fan	1								x	x	
	3903818	Spacer, Fan	1		x			x					
3.2	3904884	Fan, Engine	1								x	x	
	3903705	Fan, Engine	1		x		x						
3.3(3)		Washer, Hardened	4	x	x	x	x	x			x	x	
	3010180	Screw, Hex. Hd. Cap, M8 (260 lbs. in.)	4	x	x	x	x	x			x	x	
3.4(5)	3906010	Radiator, Assembly	1	x	x								
	3906009	Radiator, Assembly	1			x	x	x					
3.5	3905288	Valve, Radiator Drain	1	x	x	x	x	x					
3.6(6)	3903676	Shroud, Engine Cooling Fan	1	x	x	x	x						
	3905565	Shroud, Engine Cooling Fan	1					x					
3.7	S119	Screw, Hex. Hd. Cap 5/16 -- 18 x 1 1/4	4	x	x	x	x	x					
	103844	Washer, Lock 5/16	4	x	x	x	x	x					
	146172	Washer, Plain 3/8	4	x	x	x	x	x					
	146160	Washer, Plain 5/16	4	x	x	x	x	x					
	3903869	Damper, Vibration	4	x	x	x	x	x					
3.8	3905574	Support, Radiator, R.H.	1	x	x	x	x	x					
3.9	3905575	Support, Radiator, L.H.	1	x	x	x	x	x					
3.10	3025802	Screw, Hex. Hd. Cap, M8 -- 1.25 x 20	6	x	x	x	x	x					
	103844	Washer, Lock 5/16	6	x	x	x	x	x					
	3009219	Nut M8 -- 1.25, Regular Hexagon	6	x	x	x	x	x					
3.11	3904012	Hose, Molded	1	x	x	x	x	x					
3.12	3905251	Clamp, Hose	2	x	x	x	x	x					
3.13(1)	3905573	Panel, Fan Guard (L.S.)	1	x	x	x	x	x					
3.14(1)	S2267	Screw, Self-tapping Metal, 1/4	12	x	x	x	x	x					
3.15(1)(6)	3905571	Panel, Fan Guard (Top)	1	x	x	x	x	x					
3.16(1)(6)	3903983	Hose, Plain	1	x	x	x	x	x					
3.17	3905264	Clamp, Hose	2	x	x	x	x	x					
3.18(1)	3905572	Panel, Fan Guard (R.S.)	1	x	x	x	x	x					
3.19	103844	Washer, Lock 5/16	1	x	x	x	x	x					
	146160	Washer, Plain 5/16	1	x	x	x	x	x					
	3335041	Screw, Hex. Hd. Cap, M8 -- 1.25 x 25	1	x	x	x	x	x					
	3009219	Nut, Regular Hexagon M8 -- 1.25	1	x	x	x	x	x					
4.1	3909779	Cowl, Radiator	1								x		
4.2	S2267	Screw, Self-tapping Metal 1/4	10								x		
4.3	3903685	Cover, Radiator Cowl	1								x		
4.4	3904605	Plug, Panel	1								x		
4.5(4)	3905431	Decal	2								x		
4.6	3909780	Cover, Battery	1								x		
	3905553	Screw, Drill	5								x		

NOTES:

- (1) Place hose 3.19 thru panel 3.18 before fitting hose clamps. Screw down top guard panel, 3.18 after r.h. panel 3.21 is in place, using screws 3.14.
- (2) Torque fan bolts to 260 lbs. in. (22 ft. lbs.)
- (3) Install after unit is painted. Connect radiator drain hose to the bottom of the coolant recovery bottle and cut off the excess hose.
- (4) Ensure battery and rack, option SB 9905, is installed prior to installing radiator, if this option is required. Install items 3.5 thru 3.9 on the radiator as a sub-assembly, prior to mounting on the sub-base with item 3.10.
- (5) Inspect for 1/4" clearance between the following items:
 - (a) Top radiator hose and guard
 - (b) Top radiator hose and turbocharged bracket
 - (c) Fan guard and engine
 - (d) Engine fan and fan shroud



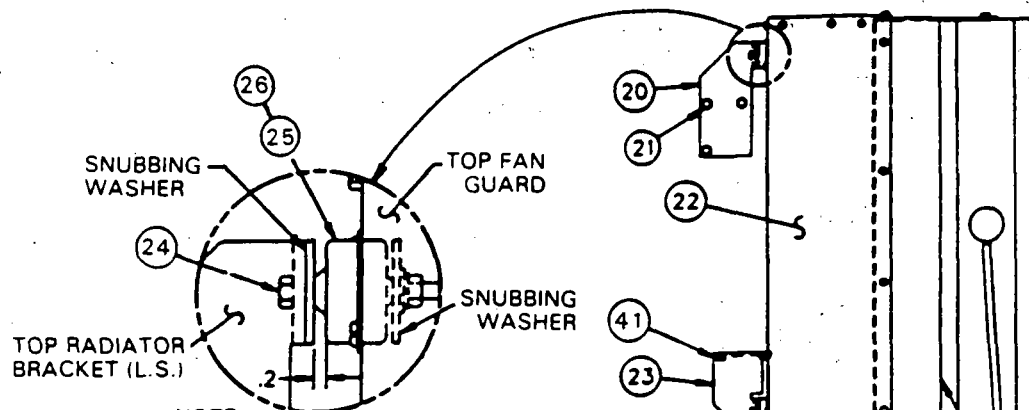
SUB-BASE
RADIATOR & COWL
ref. 3905292/293/530

ASSEMBLY PROCEDURE

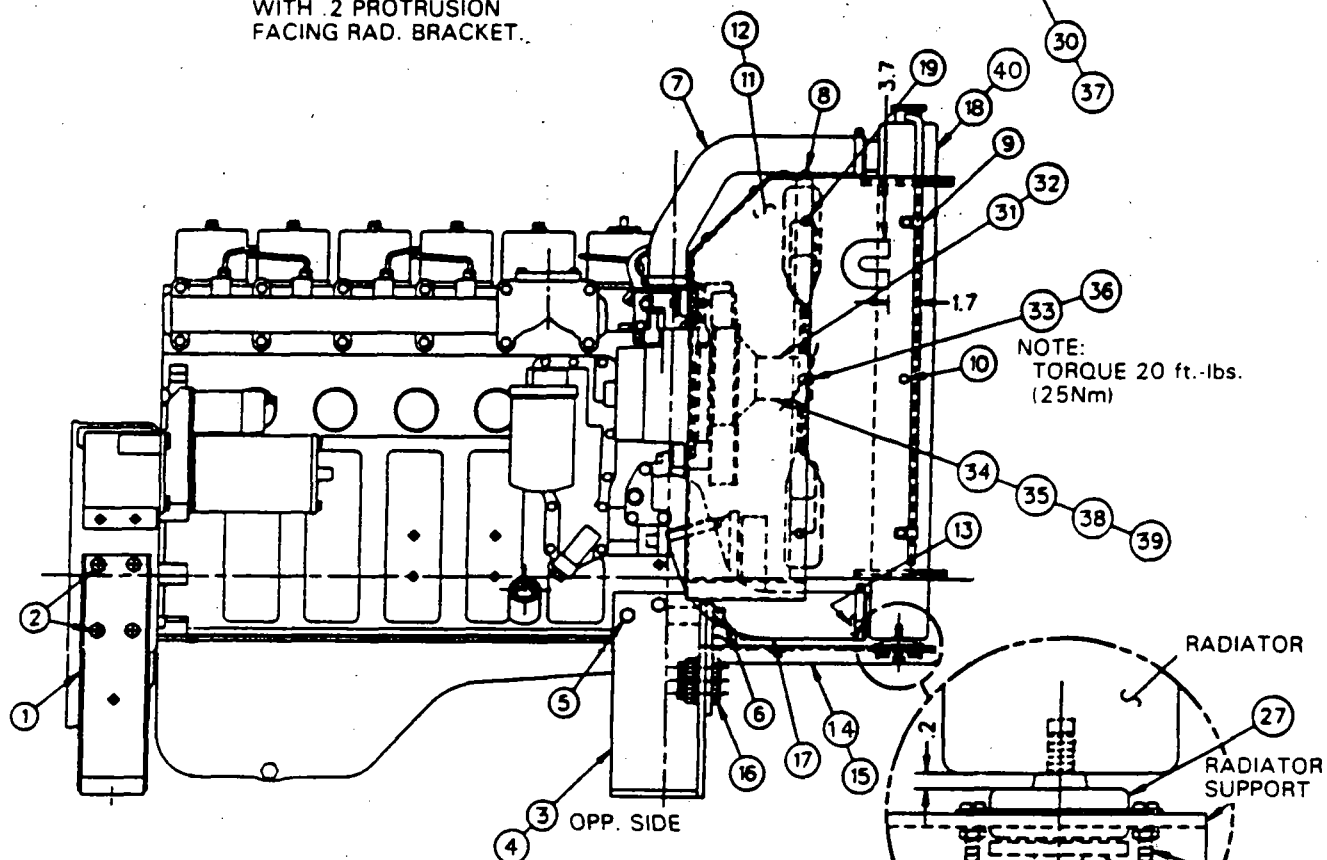
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cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

ASSY NO.	PART NO.	DESCRIPTION	QTY.	OPTION NO.						
				RE9904 4 & 6 CYL PCD FEET	RA9936 4BTA/6 CYL RADIATOR	FN9912 6 CYL FAN SUCKER	FN9915 6 CYL FAN BLOWER	FN9911 4 CYL FAN SUCKER	FN9914 4 CYL FAN BLOWER	RA9935 4B/4BT RADIATOR
1	3903688	Support, Engine Rear	2	x						
2	S-608	Washer, Lock 1/2	8	x						
	3905547	Screw, H.C. M12-1.75 x 25 (Grade 8)	8	x						
3	3911091	Support, Engine Front (L.H.)	1	x						
4	3911092	Support, Engine Front (R.H.)	1	x						
	S-608	Washer, Lock 1/2	4	x						
5	S-624	Washer, Plain 1/2	4	x						
	3905547	Screw, H.C. M12-1.75 x 25 (Grade 8)	4	x						
	S-608	Washer, Lock 1/2	2	x						
6	S-624	Washer, Plain 1/2	2	x						
		Screw, H.C. M12-1.75 x 90 (Grade 8)	2	x						
	3903983	Hose, Radiator (Upper)	1		x					x
7	3906254	Clamp, Hose	2		x					x
8	S-2267	Screw, Drill	14		x					x
9	3907130	Clamp, Insulated	2		x					x
	S-107	Screw, H.C. 5/16 - 18 x 3/4	6		x					x
10	103844	Washer, Lock 5/16	6		x					x
	69208	Washer, Plain 5/16	4		x					x
11	3911088	Guard, Fan (R.S.)	1		x					x
12	3911087	Guard, Fan (L.S.)	1		x					x
13	3905288	Valve, Drain 1/4	1		x					x
14	3911093	Bracket, Rad. Support (L.S.)	1		x					x
15	3911094	Bracket, Rad. Support (R.S.)	1		x					x
		Washer, Plain 5/8	6		x					x
16		Screw, H.C. M16 - 2.0 x 50 (Grade 8)	6		x					x
		Nut, Hex M16 - 2.0 (Grade 8)	6		x					x
	3905251	Clamp, Hose	2		x					x
17	3912327	Hose, Radiator (Lower)	1		x					x
18	3911084	Radiator Assembly	1		x					
	S-107	Screw, H.C. 5/16 - 18 x 3/4	6		x					x
19	103844	Washer, Lock 5/16	6		x					
	69208	Washer, Plain 5/16	6		x					
20	3911107	Bracket, Radiator Top (L.S.)	1		x					x
	S-610	Washer, Lock 7/16	3		x					x
21	3903990	Screw, H.C. M10 - 1.5 x 20	3		x					x
22	3911089	Guard, Fan Top	1		x					x
23	3911108	Bracket, Radiator Top (R.S.)	1		x					x
24	181466	Washer, Lock 1/4	2		x					x
	3911110	Washer, Snubbing 1/4	4		x					x
	148157	Washer, Plain 1/4	2		x					x
	3600815	Screw, H.C. M6 - 1 x 50	2		x					x
	3905548	Nut, Hex M6 - 1	2		x					x
	S-692	Washer, Lock #8	4		x					x
25	128021	Screw, R.H.M. #8 - 32 x 1/2	4		x					x
	S-215	Nut, Hex #8 - 32	4		x					x
26	3911106	Mount, Vibro (Upper)	2		x					x
27	3911101	Mount, Vibro (Lower)	2		x					x
28		Screw, H.C. 3/8-16 x 1 3/4	2		x					x
	S-604	Washer, Lock 3/8	2		x					x
	3911090	Washer, Plain 3/8	2		x					x
	S-607	Washer, Lock #10	4		x					x
29	132633	Screw, R.H.M. #10 - 32 x 3/4	4		x					x
	S-257	Nut, Hex #10 - 32	4		x					x
30	3911077	Shroud, Fan (23" Opening)	1			x	x			
31	3907896	Spacer, Fan	1			x		x		
32	3905919	Fan, Sucker (21.5")	1			x				
33		Washer, Hardened	4			x		x		
		Screw, H.C. M8 - 1.25 x 80	4			x		x		
34	3911112	Spacer, Fan	1				x		x	
35		Fan, Blower (21.5")	1				x			
		Washer, Hardened	4				x		x	
36	3903096	Screw, H.C. M8 - 1.25 x 70	4				x		x	
37	3911100	Shroud, Fan (19.5" Opening)	1					x	x	
38	3903695	Fan, Sucker (18")	1					x		
39	3903705	Fan, Blower (18")	1						x	
40	3912283	Radiator Assembly	1							x
	103844	Washer, Lock 5/16	2		x					
41		Screw, H.C. M8 - 1.25 x 35	2		x					

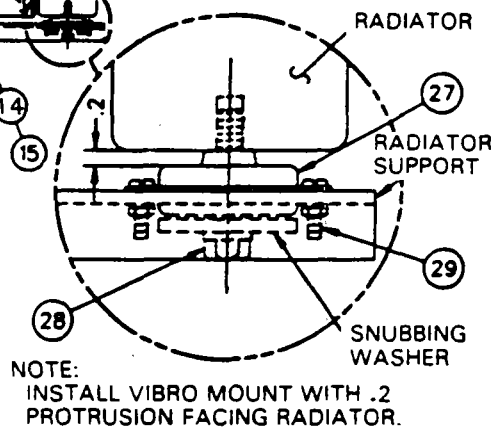


NOTE:
INSTALL VIBRO MOUNT
WITH .2 PROTRUSION
FACING RAD. BRACKET.



NOTE:
TORQUE 20 ft.-lbs.
(25Nm)

**HEAVY DUTY
PEDESTAL FEET ASSEMBLY**
4B/4BT/4BTA/6B/6BT/6BTA
6B POWER UNIT SHOWN
ref. 3911099



NOTE:
INSTALL VIBRO MOUNT WITH .2
PROTRUSION FACING RADIATOR.

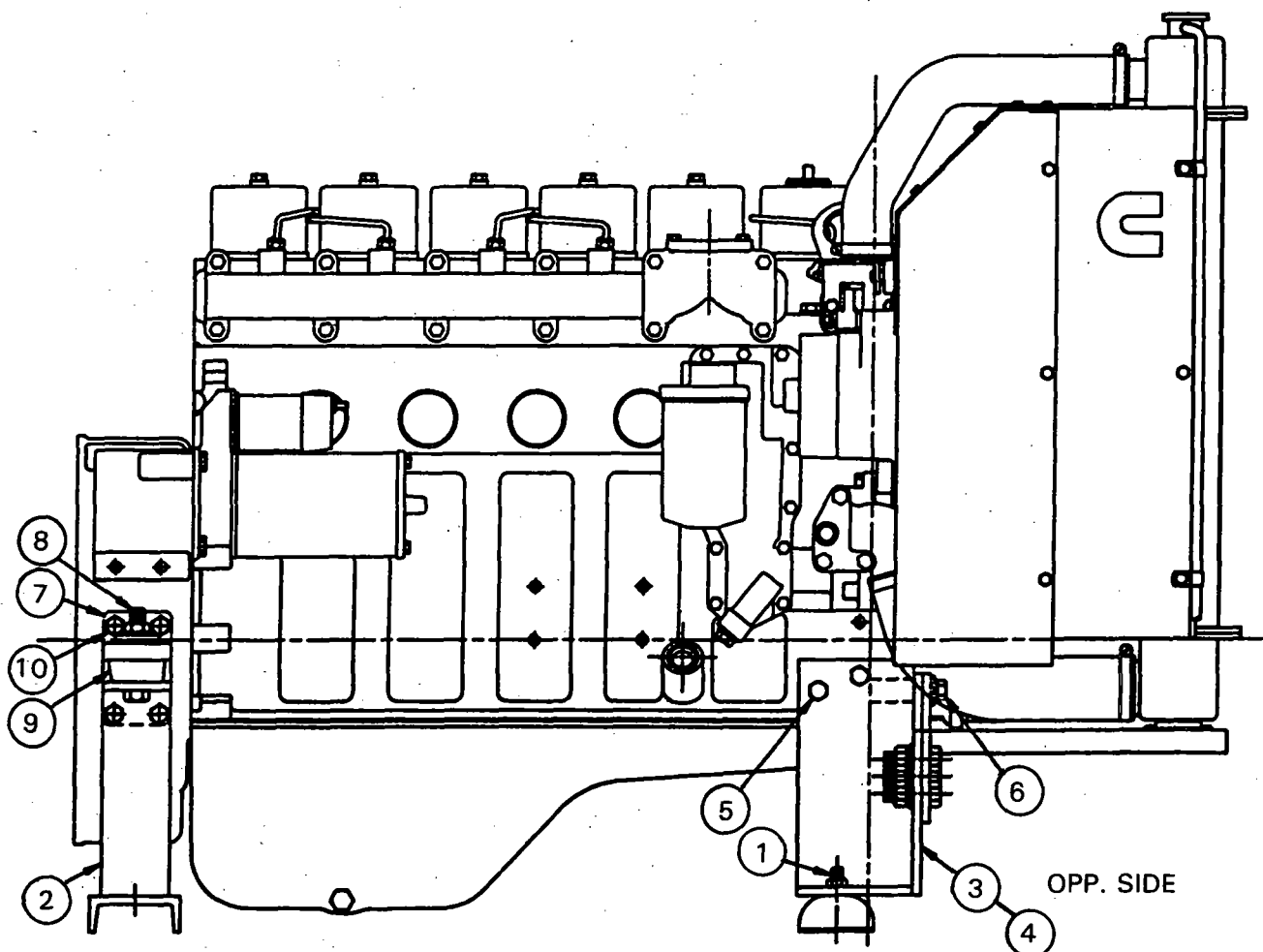
ASSEMBLY PROCEDURE

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OPTION NO.

ITEM	PART NO.	DESCRIPTION	QTY.	SA9916 C.L. MTG.
1	3912317	Screw, H.C. M12 -- 1.75 X 40 (Grade 8)	2	x
	3912315	Nut, Locking Hex M12 -- 1.75	2	x
	3905252	Damper, Vibration	2	x
2	3907917	Crossmember, C.L. Mount	1	x
3	3912310	Support, Engine (Front L.H.)	1	x
4	3912311	Support, Engine (Front R. H.)	1	x
5	S608	Washer, Lock 1/2	4	x
	S624	Washer, Plain 1/2	4	x
	3905547	Screw, H.C. M12 -- 1.75 x 25 (Grade 8)	4	x
6	S608	Washer, Lock 1/2	2	x
	S624	Washer, Plain 1/2	2	x
		Screw, H.C. M12 -- 1.75 x 90 (Grade 8)	2	x
7	3907862	Support, Flywheel HSG.	2	x
		Washer, Plain	2	x
8	3912314	Screw, H.C. M16 -- 2.0 x 100 (Grade 8)	2	x
	3912316	Nut, Locking Hex M16 -- 2.0	2	x
9	S608	Damper, Vibration	2	x
		Washer, Lock 1/2	8	x
10	3912317	Screw, H.C. M12 -- 1.75 x 40 (Grade 8)	8	x



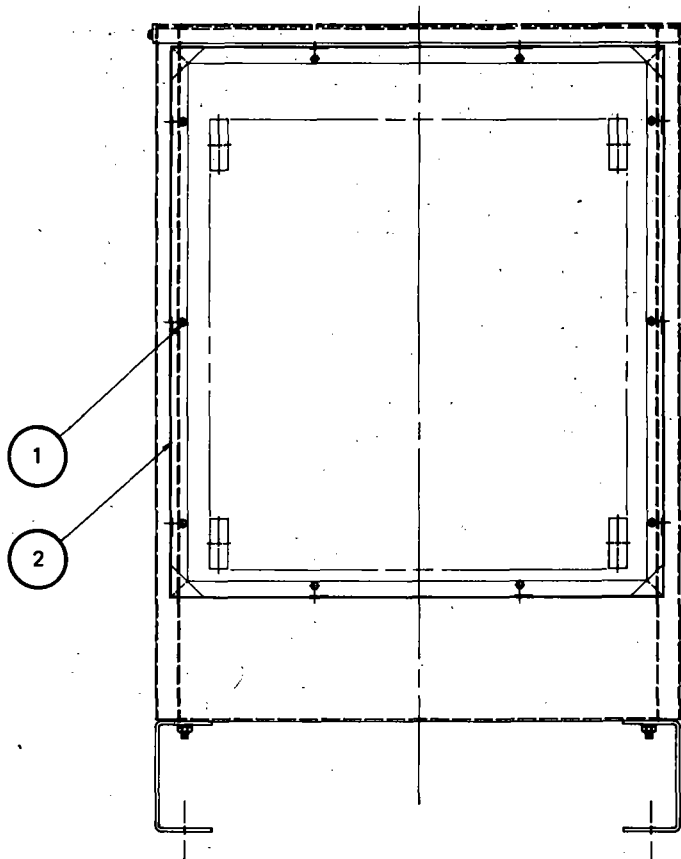
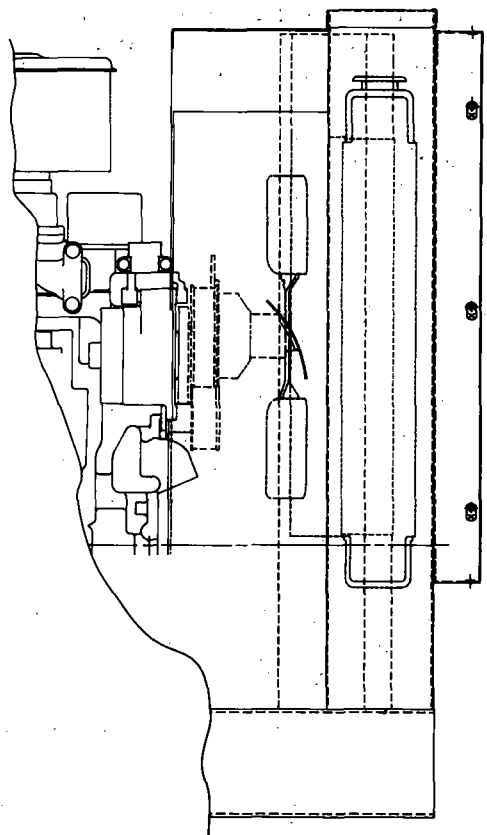
**4 & 6 CYL. HEAVY DUTY
 PEDESTAL FEET ASSEMBLY**
 W/C.L. MOUNTING — FLYWHEEL HSG.
 6B POWER UNIT SHOWN
 ref. 3912318

ASSEMBLY PROCEDURE

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cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

<u>ASSY</u>			<u>OPTION NO.</u>	
<u>NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>RA-</u>
				<u>9907</u>
1	3909538	Screw, Drill 1/4	10	x
2	3905982	Frame, Air Duct	1	x



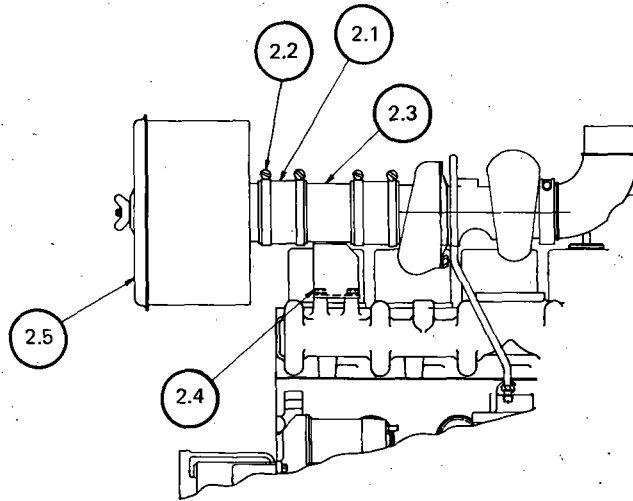
RADIATOR DUCT FLANGE
ref. 3905983

ASSEMBLY PROCEDURE

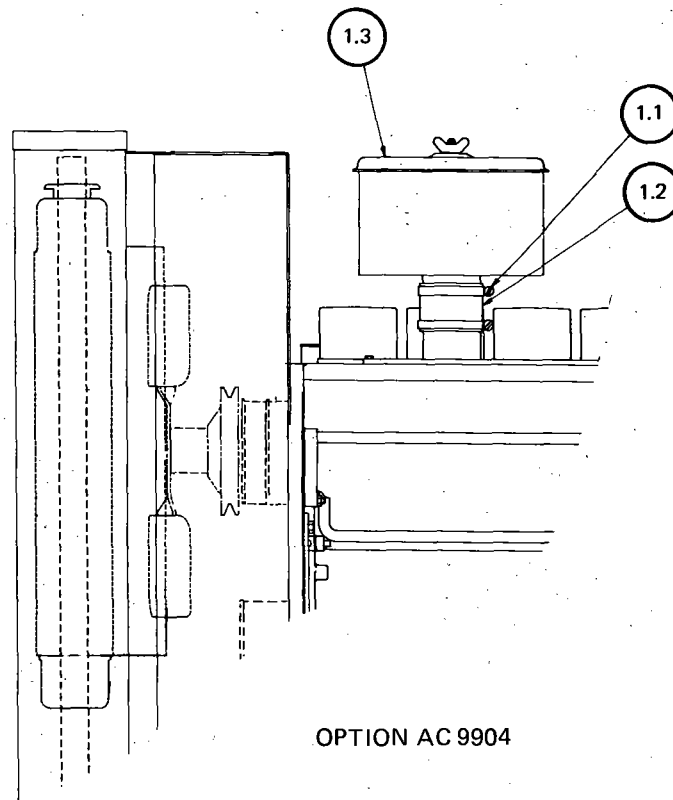
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cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

ASSY NO.	PART NO.	DESCRIPTION	QTY.	OPTION NO.		
				AC- 9904	AC- 9901	AC- 9910
1.1	3905984	Clamp, Hose	1	x		
1.2	3904914	Hose, Plain	1	x		
1.3	3903875	Cleaner, Air	1	x		
2.1	3904914	Hose, Plain	2		x	x
2.2	3905984	Clamp, Hose	4		x	(2)
	3905568	Clamp, Hose	2			x
2.3	3904593	Bracket, Air Cleaner	1		x	
	3904930	Bracket, Air Cleaner	1			x
2.4	S610	Washer, Lock 7/16	2		x	x
	3905546	Screw, Hex. Hd. Cap, M10 x 1.5 x 19	2		x	x
2.5	3903875	Cleaner, Air	1		x	
	3903878	Element, Air Cleaner	1		x	
2.5	3903876	Cleaner, Air	1			x
2.6	3904060	Hose, Hump	1			x



OPTION AC 9901/AC 9910



OPTION AC 9904

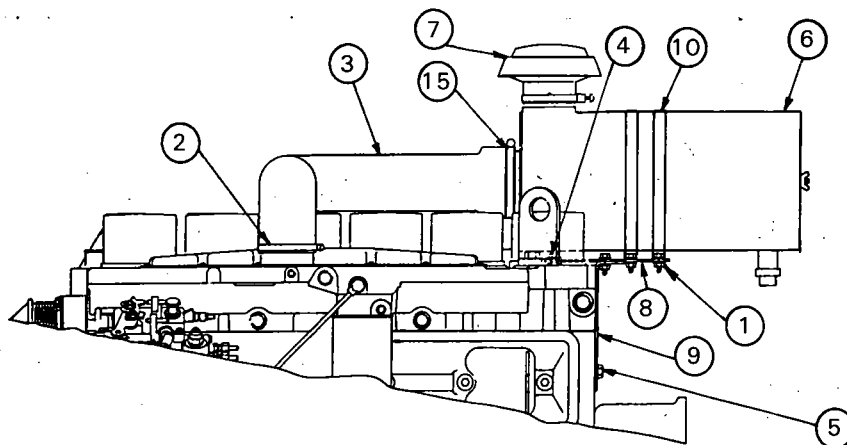
LIGHT DUTY AIR CLEANERS
ref. 3905282/5533

ASSEMBLY PROCEDURE

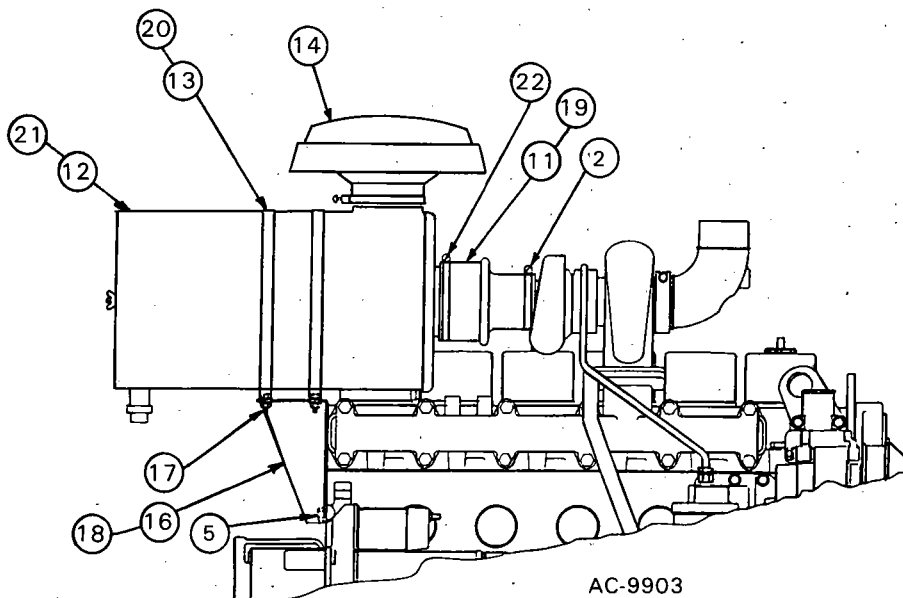
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cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

NO.	CUMMINS PART NO.	DESCRIPTION	QTY.	OPTION NO.					
				AC9911	AC9912	AC9924	AC9925	AC9902	AC9903
1	3025802	Screw, H.C. M8 -- 1.35 x 20	6	x				x	
	S604	Washer, Lock 3/8	6	x				x	
	3009219	Nut, Hex M8 x 1.25	6	x				x	
		3/8 Flat Washer	6	x				x	
2	3905884	Clamp, Hose	1	x	x	x		x	x
3	3907095	Hose, Molded	1	x				x	
	S610	Washer, Lock 7/16	1	x				x	
4	3905546	Screw, H.C. M10 -- 1.5 x 19	1	x				x	
	146172	Washer, Plain 3/8	2	x				x	
	S608	Washer, Lock 1/2	2	x	x	x		x	x
5	3905547	Screw, H.C. M12 -- 1.75 x 20	2	x	x	x		x	x
		Washer, Flat 1/2	2	x	x	x		x	x
6	3907088	Cleaner, Air	1	x				x	
7	3907092	Cap, Rain	1	x				x	
8	3904597	Bracket, Mounting	1	x				x	
9	3904598	Bracket, Mounting	1	x				x	
10	3904917	Band, Mounting	2	x				x	
11	3904060	Hose, Hump Reducer (3.0/4.0)	1		x				x
12	3907091	Cleaner, Air	1		x				x
13	3907100	Band, Mounting	2		x				x
14	3907096	Cap, Rain	1		x	x			x
15	3907886	Clamp, Hose	1	x	x			x	x
16	3907097	Bracket, Mounting	1		x				x
	3025802	Screw, H.C. M8 -- 1.25 x 20	4		x	x	x		x
17	S604	Washer, Lock 3/8	4		x	x	x		x
	3009219	Nut, Hex. M8 -- 1.25	4		x	x	x		x
		Washer, Flat 3/8	4		x	x	x		x
18	3911014	Bracket, Mounting	1			x			
19	3911015	Hose, Hump Reducer (3.0/5.0)	1			x			
20	3905248	Band, Mounting	2			x			
21	3911017	Cleaner, Air	1			x			
22		Clamp, Hose (5.25/5.56)	1			x			
23	3905984	Clamp, Hose	2				x		
24		Band, Mounting	2				x		
25	3911044	Connection	1				x		
26	3911044	Hose, Hump	1				x		
27	3906003	Clamp, Hose	1				x		
28	3909820	Elbow, Rubber	1				x		
29	3909819	Cap, Rain	1				x		
30	3911024	Tube	1				x		
31	3911023	Bracket, Air Cleaner	1				x		
32	3911018	Cleaner, Air	1				x		
	3901247	Screw, H.C. M12 -- 1.75 x 25	2				x		
33		Washer, Flat 1/2	2				x		
	S608	Washer, Lock 1/2	2				x		
34		Clamp, Hose (5.25/5.56)	2				x		

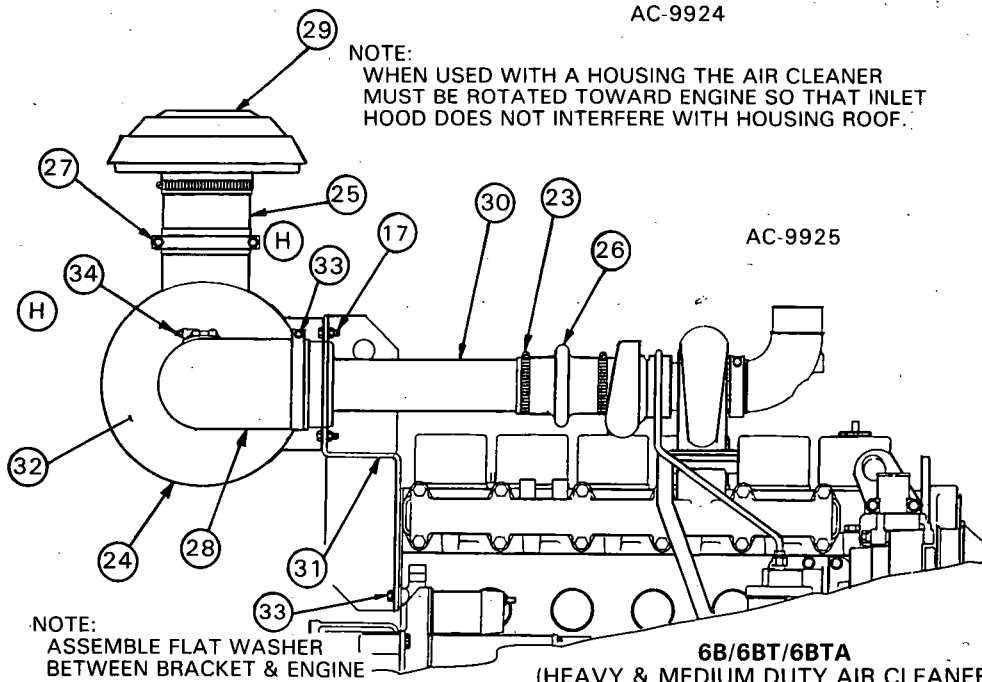


AC-9902
AC-9911



AC-9903
AC-9912
AC-9924

NOTE:
WHEN USED WITH A HOUSING THE AIR CLEANER
MUST BE ROTATED TOWARD ENGINE SO THAT INLET
HOOD DOES NOT INTERFERE WITH HOUSING ROOF.



AC-9925

NOTE:
ASSEMBLE FLAT WASHER
BETWEEN BRACKET & ENGINE

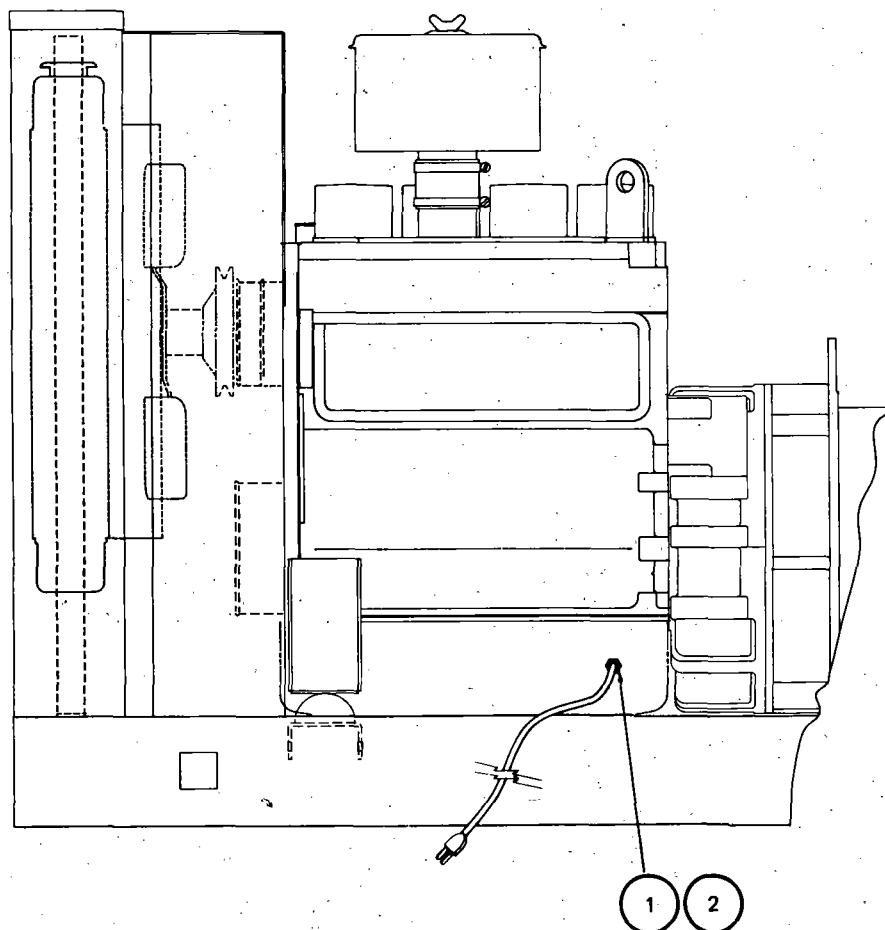
6B/6BT/6BTA
(HEAVY & MEDIUM DUTY AIR CLEANERS)
ref. 3907099

ASSEMBLY PROCEDURE

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cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

ASS'Y NO.	PART NO.	DESCRIPTION	QTY.	OPTION NO.	
				OH 9901	OH 9902
1	3904109	Heater, 120 Volt Oil Pan	1	x	
2	3904894	Heater, 240 Volt Oil Pan	1		x



HEATER, OIL PAN
ref. 3904817/5582

ASSEMBLY PROCEDURE

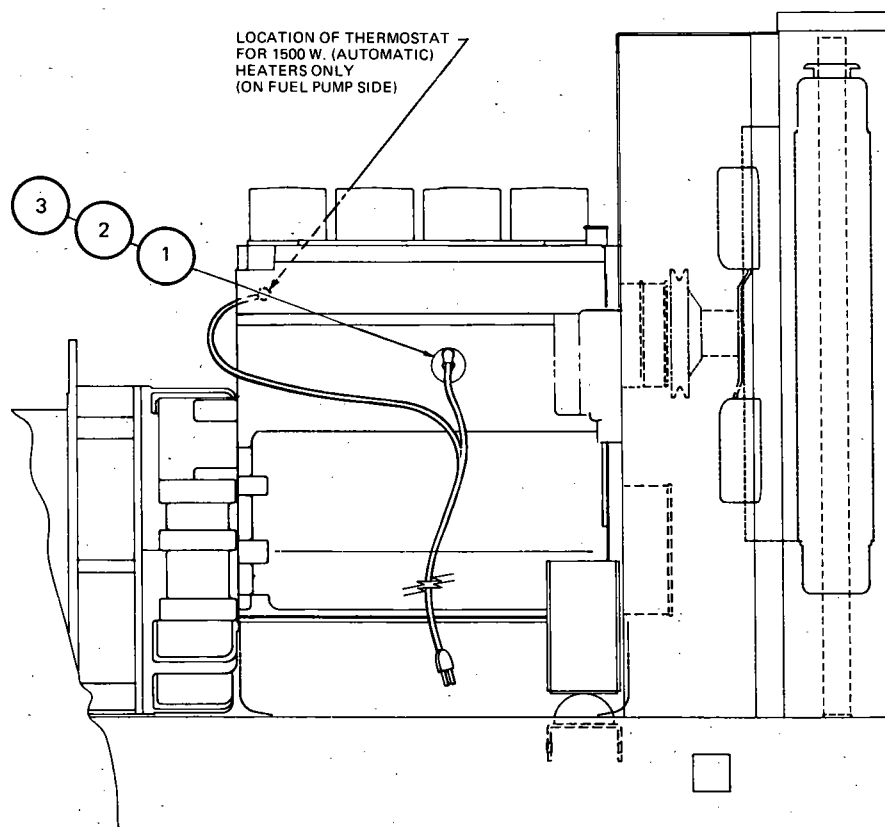
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ASS'Y NO.	PART NO.	DESCRIPTION	QTY.	OPTION NO.		
				CH- 9901	CH- 9902	CH- 9903
1	3904110	Heater, Engine Water, Manual	1	x		
2	3904139	Heater, Engine (120 v.) Automatic	1		x	
3	3904888	Heater, Engine (240 v.) Automatic	1			x
4	3907128	Reducer, Bushing	1		NR	NR

NOTE:

NR: Included in kit but not required on 4 cylinder engine.



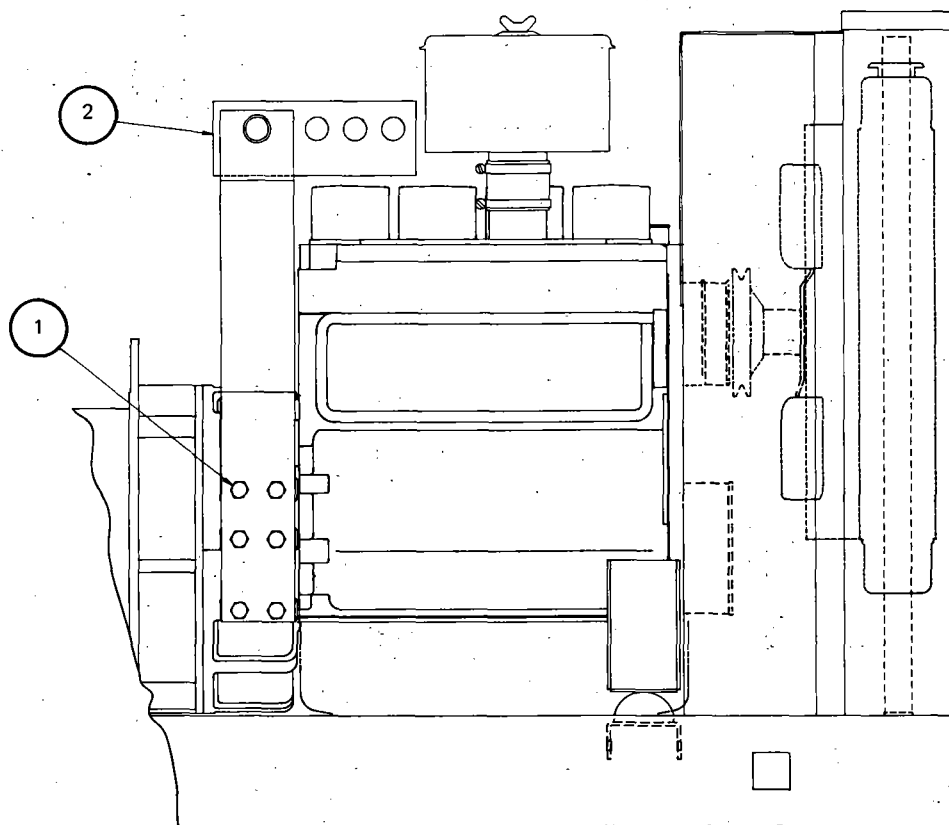
COOLANT HEATER
ref. 3904818/5585

ASSEMBLY PROCEDURE

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cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

ASS'Y		DESCRIPTION	QTY.	OPTION NO.
NO.	PART NO.			LA-9901
1	S608	Washer, Lock 1/2	12	x
	3905547	Screw, Hexagon Head Cap, M12-1.75 x 20	12	x
2	3904020	Bracket, Lifting	1	x



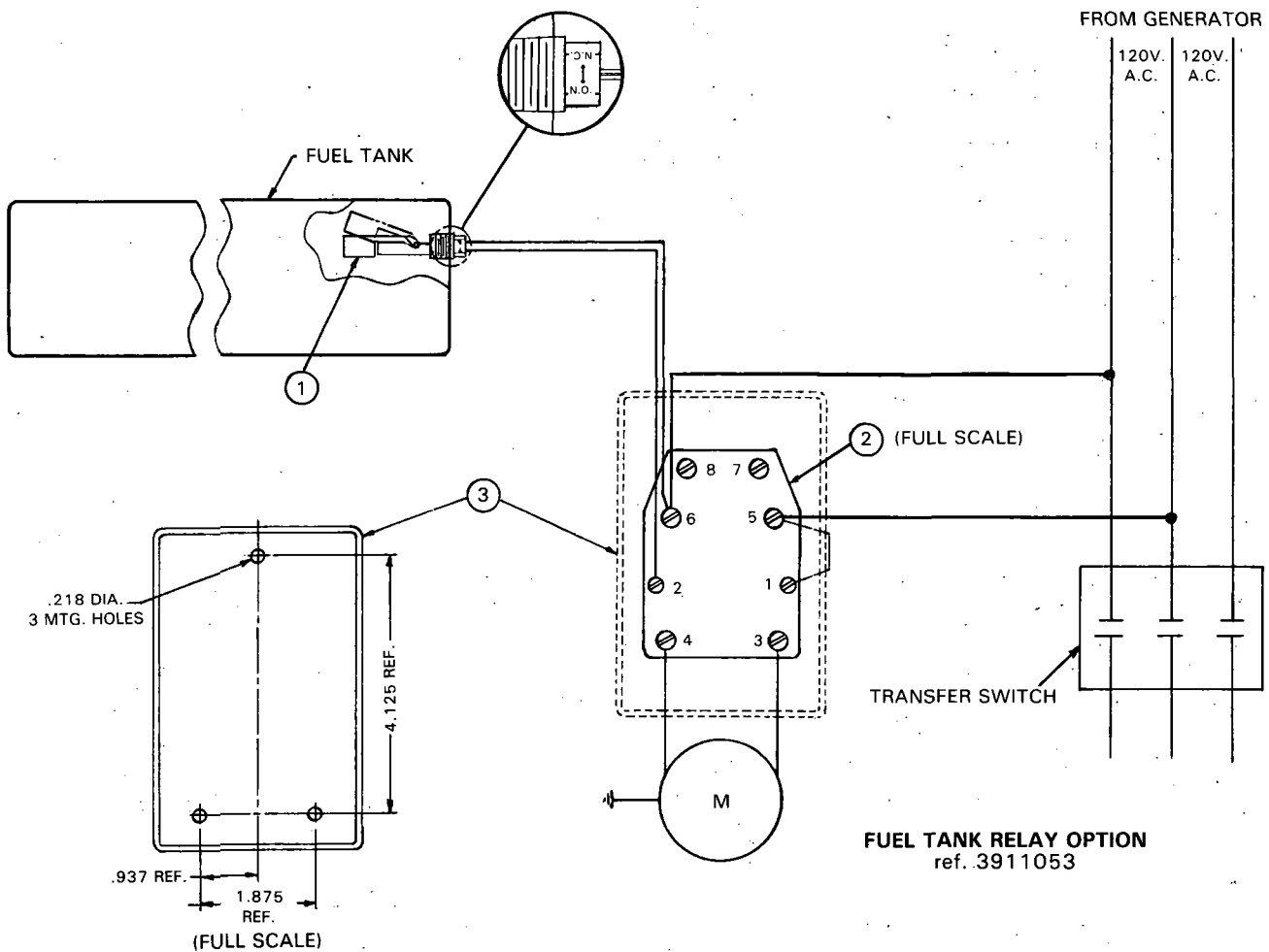
KIT, LIFTING HOOK
ref. 3904868

ASSEMBLY PROCEDURE

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cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

ITEM	PART NO.	DESCRIPTION	QTY.	OPTION NO.
				ES9906
1	3909856	Switch, Float	1	x
2	3909857	Relay	1	x
3	3909858	Cover, Dust	1	x



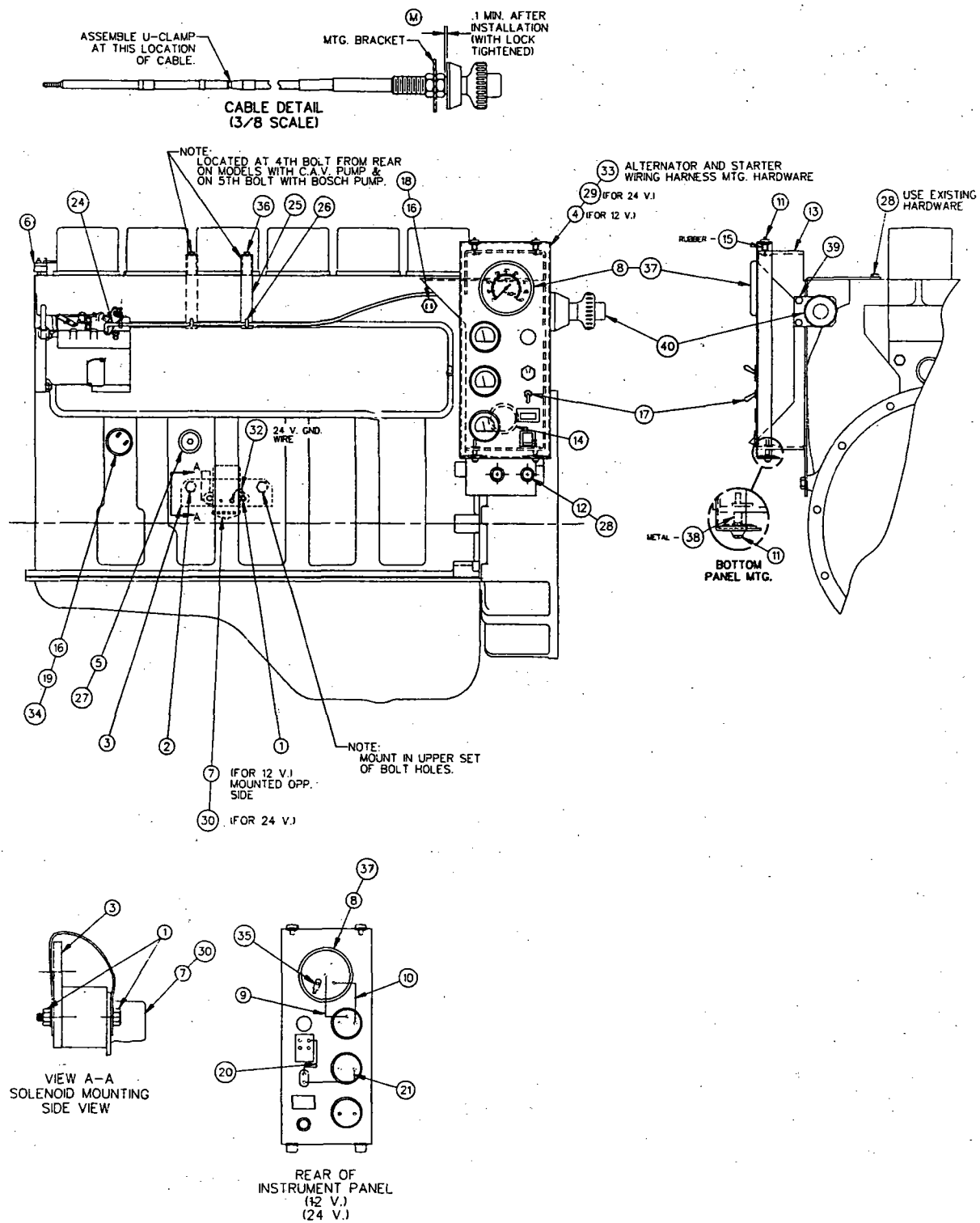
ASSEMBLY PROCEDURE

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OPTION NO.

NO.	PART NO.	DESCRIPTION	QTY.	EG9928	EG9929	EG9903	EG9907	EG9920	EG9904	EG9931	EG9930	EG9928	EG9903	EG9930	MS9901
				INSTR. PANEL COMP. 12V (DELCO)	INSTR. PANEL (GAUGES) 12V	TACHOMETER 12/24V (DELCO)	MOUNTING 12/24V UNHOUSED	SHUTDOWN PROTECTION 12/24V	INSTR. PANEL (GAUGES) 24V	INSTR. PANEL COMP. 24V (DELCO)	INSTR. PANEL COMP. 12V (MOTOROLA)	TACHOMETER 12/24V (MOTOROLA)	INSTR. PANEL COMP. 24V (MOTOROLA)	MS9902 TROTTLE 12/24V	
1	3905544	Screw, H.C. 1/4-20 x 3/8	2	x	x					x	x	x		x	
	180466	Washer, Lock 1/4	4	x	x					x	x	x		x	
	146157	Washer, Plain 1/4	2	x	x					x	x	x		x	
	S-224	Nut, Hex 1/4-20	2	x	x					x	x	x		x	
		Strap, Ground	1	x	x					x	x	x		x	
	3904930	Mount, Vibration	2	x	x					x	x	x		x	
2	S608	Washer, Lock 1/2	2	x	x					x	x	x		x	
	3905547	Screw, H.C. M12-1.75 x 20	2	x	x					x	x	x		x	
3	3903981	Bracket, Relay	1	x	x					x	x	x		x	
4	3912353	Panel, Ass'y. (12V)	1	x	x							x			
5	3904903	Sender, Oil Press	1	x	x					x	x	x		x	
6	3904904	Sender, Water Temp.	1	x	x					x	x	x		x	
7	3904905	Solenoid, Cranking (12V)	1	x	x							x			
	S257	Nut, Hex. 10-32	2	x	x							x			
8	3904015	Tachometer (Delco)	1	x		x					x				
9	3904906	Lead	1	x		x					x	x	x	x	
10	3894907	Lead	1	x		x					x	x	x	x	
11		Screw, R.H.M. #8-32 x 1.125	4				x								
	S-692	Washer, Lock #8	4				x								
12	S608	Lead	2				x								
	3905547	Screw, H.C. M12-1.75 x 20	2				x								
13	3907102	Bracket, Mounting	1				x								
14	3905535	Grommet	1				x								
15	3907104	Collar, Snubbing	2	x	x					x	x	x		x	
16	3904909	Terminals	4	x					x		x	x		x	
17	3904910	Switch, Toggle SPST MON	1	x					x		x	x		x	
18	3903961	Switch, H.W.T.	1	x					x		x	x		x	
	3907128	Bushing, Reducing	1	x					x		x	x		x	
19	3903962	Switch, L.O.P.	1	x					x		x	x		x	
20	3904911	Lead	1	x					x		x	x		x	
21	3904912	Lead	1	x					x		x	x		x	
22	S270	Nut, 1/4-28	1												x
	181466	Washer, Lock 1/4	1												x
	3903963	Connector, Ball Joint	1												x
23	3903985	Bracket, Cable Mtg.	1												x
24	3903986	Clamp, "U"	1												x
25	3905236	Nipple, Pipe 1/8	1	x	x				x	x	x	x		x	
	3905237	Coupling, Pipe 1/8	1	x	x				x	x	x	x		x	
26	S-624	Washer, Plain 1/2	4	x			x				x	x		x	
27	3912354	Panel Assy. (24V)	1							x	x			x	
28	3905578	Solenoid, Cranking (24V)	1							x	x			x	
29	3905580	Adapter (24V)	1												
30	3905579	Lead	1							x	x			x	
	146157	Washer, Plain 1/4	1							x	x			x	
31	3905548	Nut, M6 x 1	1	x	x					x	x	x		x	
	3009503	Nut, M10 x 1.5	1	x	x					x	x	x		x	
		Nut, M5 x .8	1	x	x					x	x	x		x	
32		Elbow, 45° Pipe 1/8	1	x					x		x	x		x	
33		Terminal, Male	1	x		x					x	x	x	x	
34		Spacer, 1.75	1												x
		Screw, H.C. M8-1.25x70	1												x
35	3911147	Tachometer (Motorola)	1									x	x	x	
36		Spacer	2	x	x					x	x	x		x	
37	3912326	Bracket, Throttle Cable	1												x
		Screw, M6-1 x 25	2												x
		Nut, Lock M6-1	2												x
38	3912329	Cable, Throttle 33"	1												x
	S257	Nut, Hex 10-32	1												x
39	3912328	Cable, Throttle 23"	1												x



4B/4BT/4BTA POWER UNIT
6B/6BT/6BTA POWER UNIT
INSTRUMENT PANEL
(12 & 24 V.)

ASSEMBLY PROCEDURE

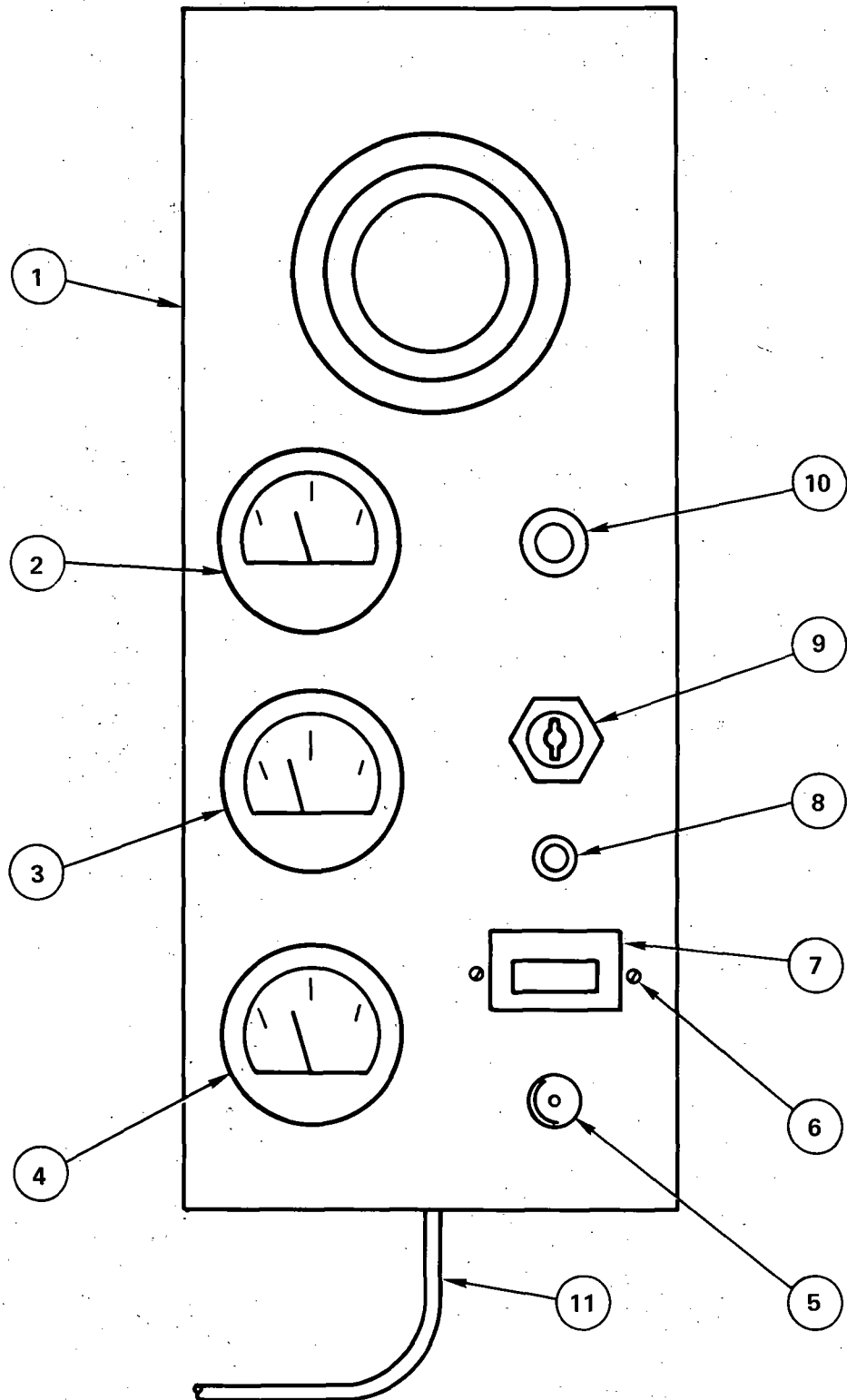
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cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

12 VOLT POWER UNIT PANEL

<u>ASS'Y NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	3909791	Panel
2	3904795	Water Temp. Gauge
3	3904794	Oil Pressure Gauge
4	3903973	Voltmeter Battery (12V.)
5	3909793	Circuit Breaker
6		Screw, Hourmeter, 6-32 x 1/2
7	3904621	Hourmeter
8	3905508	Test Light
9	3909744	Toggle Switch
10	3903960	Cable Speed Control
11	3905998	Wiring Harness

POWER UNIT ENGINE PANEL

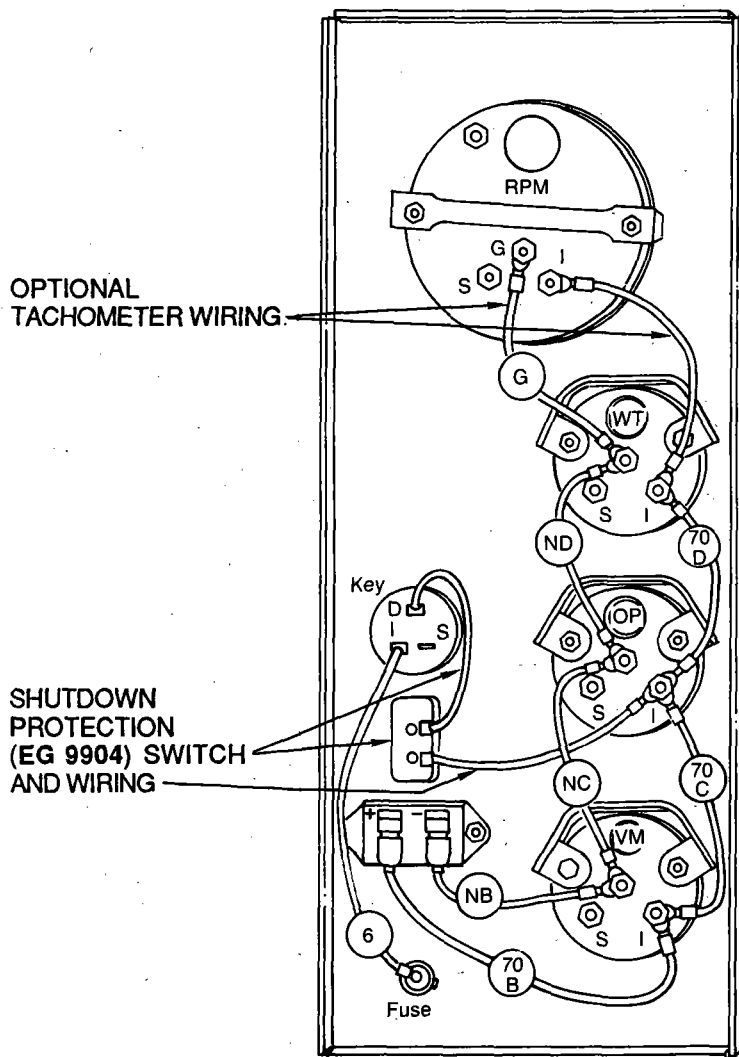


BASIC POWER UNIT
INSTRUMENT PANEL ASSEMBLY
Ref. 3907109 & 3907110

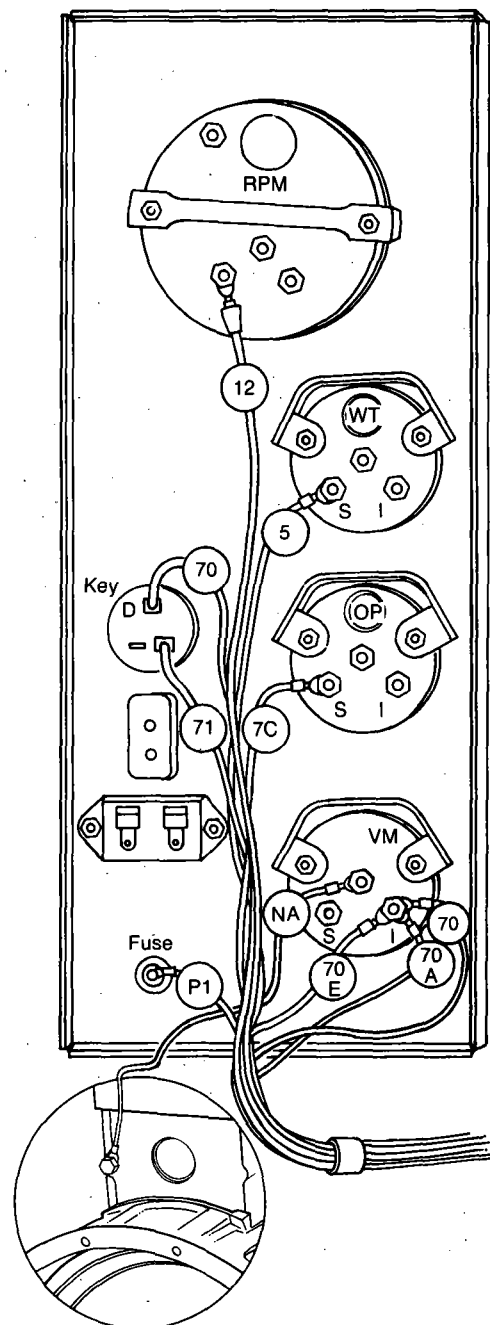
POWER UNIT INSTRUMENT PANEL WIRING AND TACHOMETER ADJUSTMENT

- Step 1. After installing the panel and all senders and switches, wire the control panel with tachometer and shutdown protection accessories (when required).
- Step 2. Wire the engine wiring harness, as shown on the following page. When wiring for the shutdown protection option, EG 9904, cut the wires marked 70, strip the wire ends and attach the terminals supplied and press on to the switch terminals.
- Step 3. Tachometer adjustment: During engine test, start the engine and use a hand held tachometer on the flywheel to adjust the tachometer to the correct engine rpm. Adjustment is made by turning the small screw at the top of the tachometer.

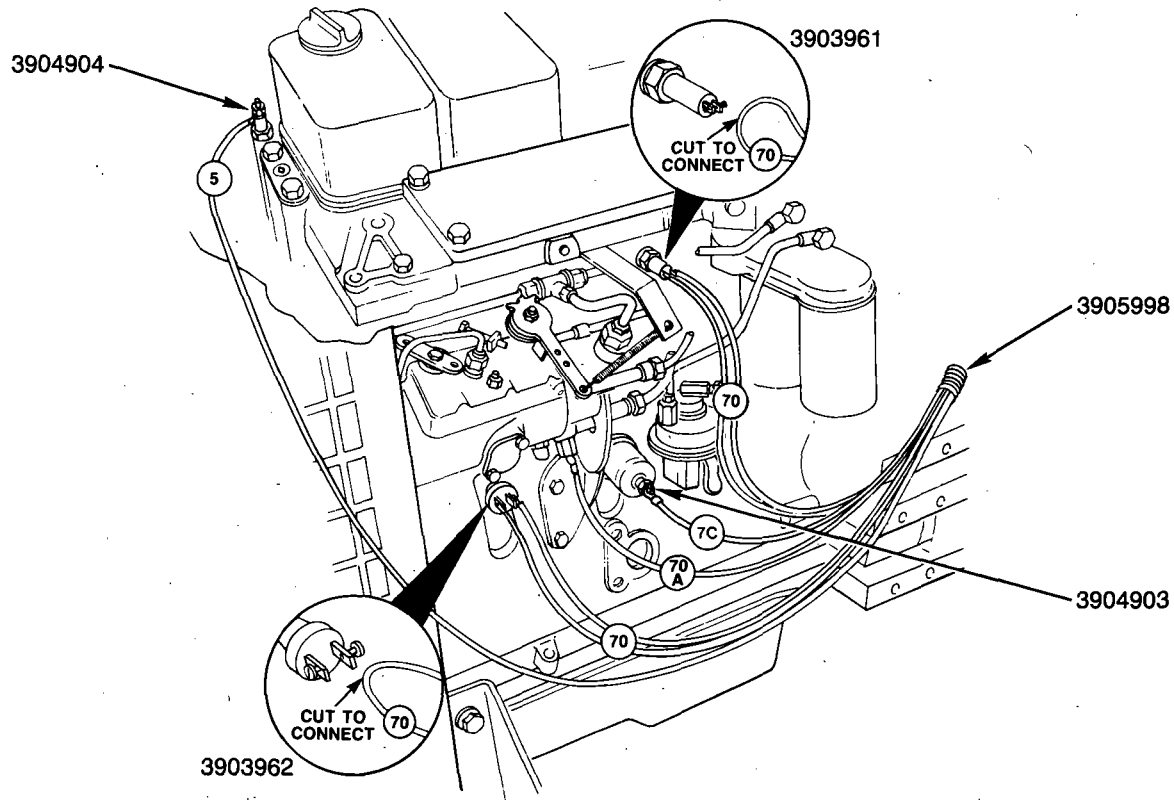
Control Panel Wiring



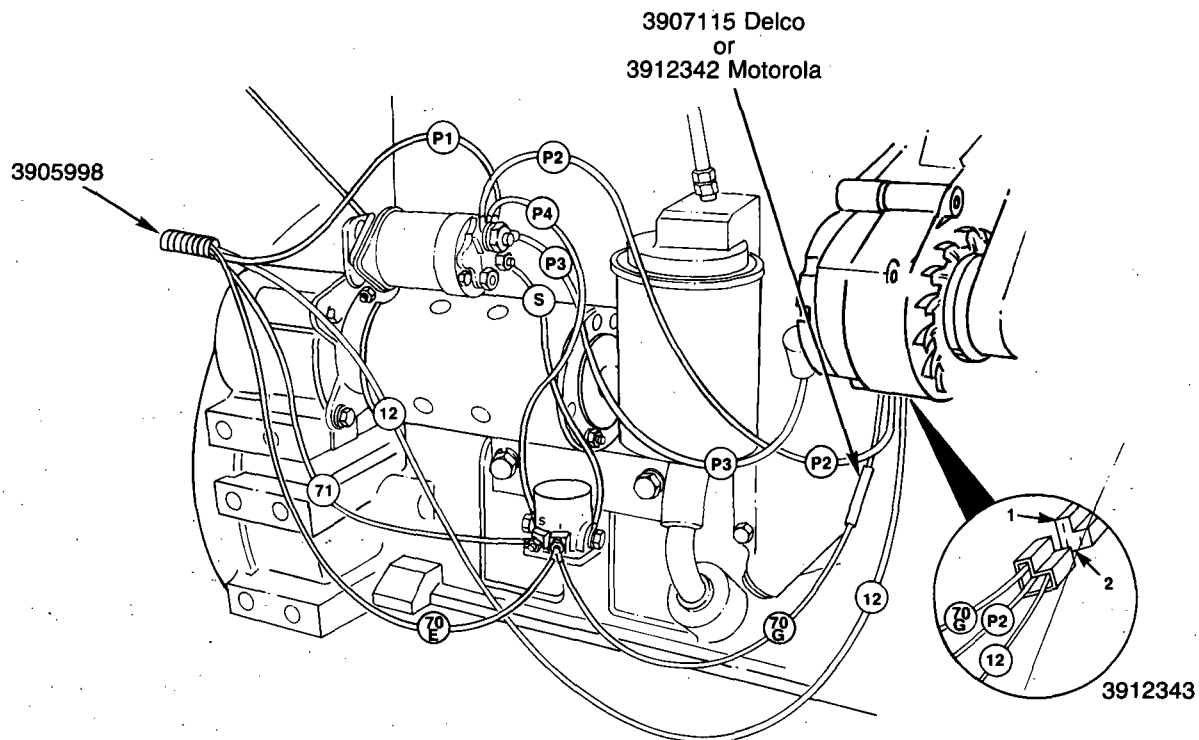
Wiring Harness Connection

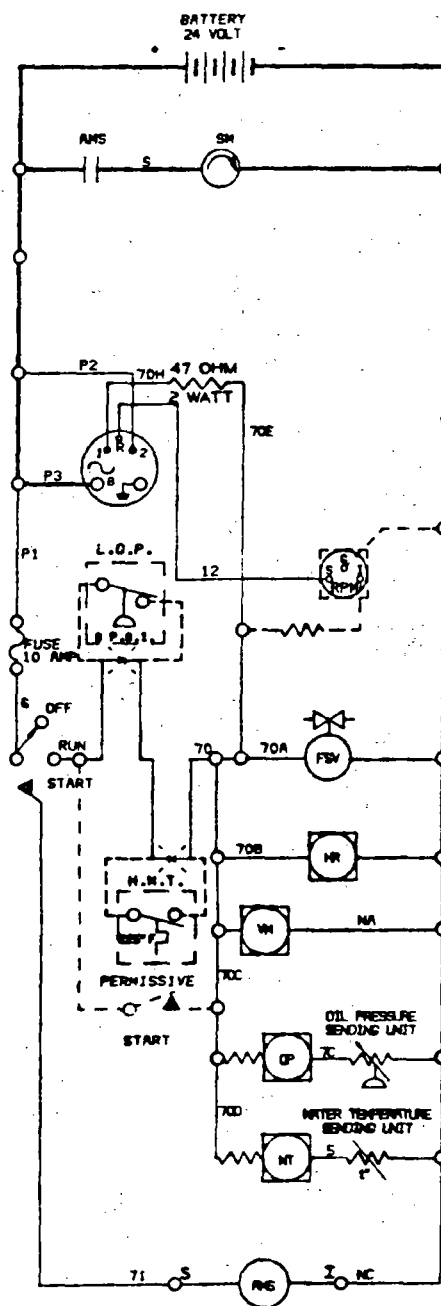


LEFT SIDE ENGINE WIRING HARNESS



RIGHT SIDE ENGINE WIRING HARNESS



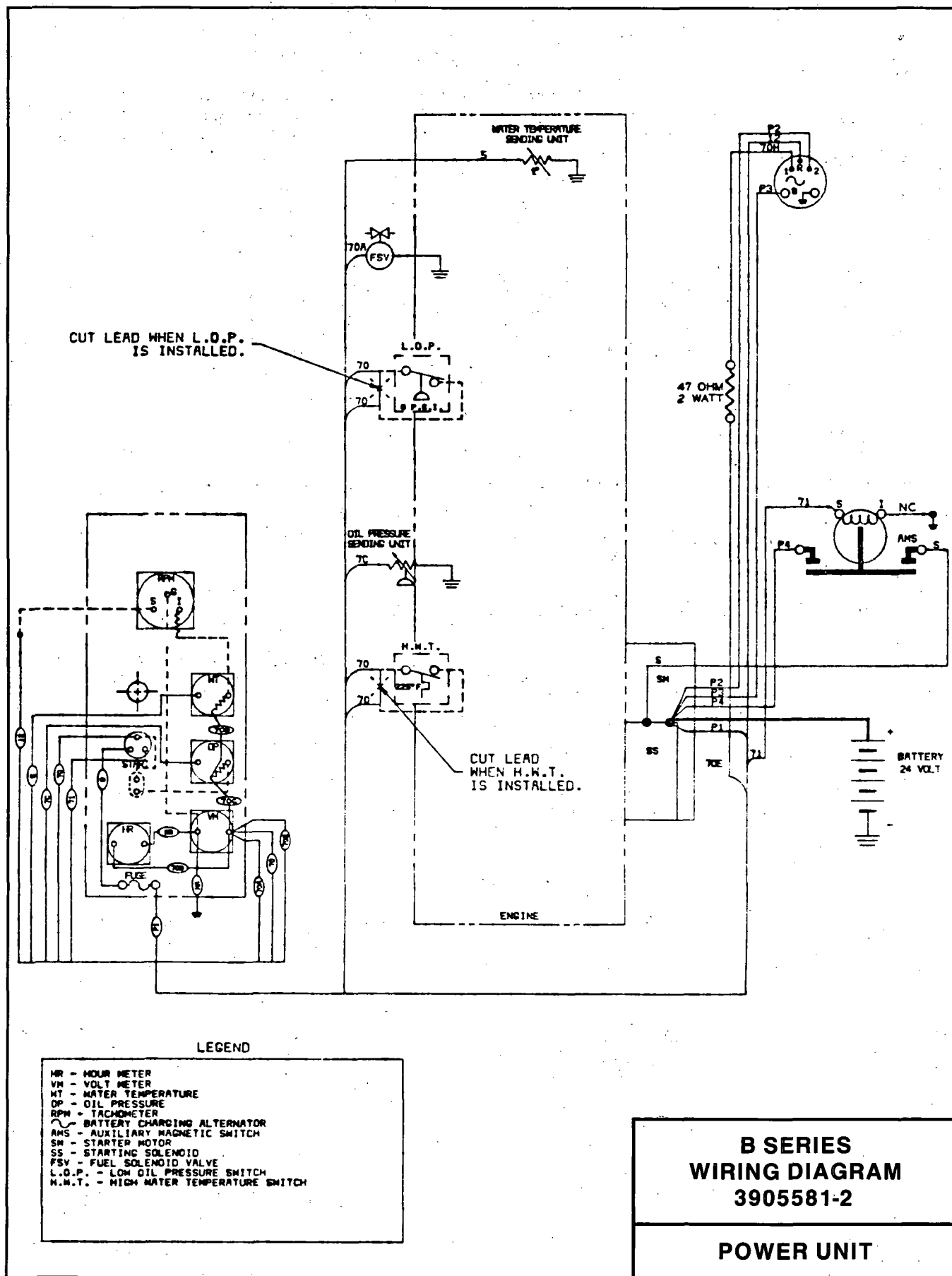


LEGEND

MR - HOUR METER
 VN - VOLT METER
 MT - WATER TEMPERATURE
 OP - OIL PRESSURE
 RPM - TACHOMETER
 ~ - BATTERY CHARGING ALTERNATOR
 AMS - AUXILIARY MAGNETIC SWITCH
 SM - STARTING MOTOR
 SS - STARTING SOLENOID
 FSV - FUEL SOLENOID VALVE
 L.O.P. - LOW OIL PRESSURE SWITCH
 H.W.T. - HIGH WATER TEMPERATURE SWITCH

B SERIES WIRING DIAGRAM 3905581-1

POWER UNIT



ASSEMBLY PROCEDURE

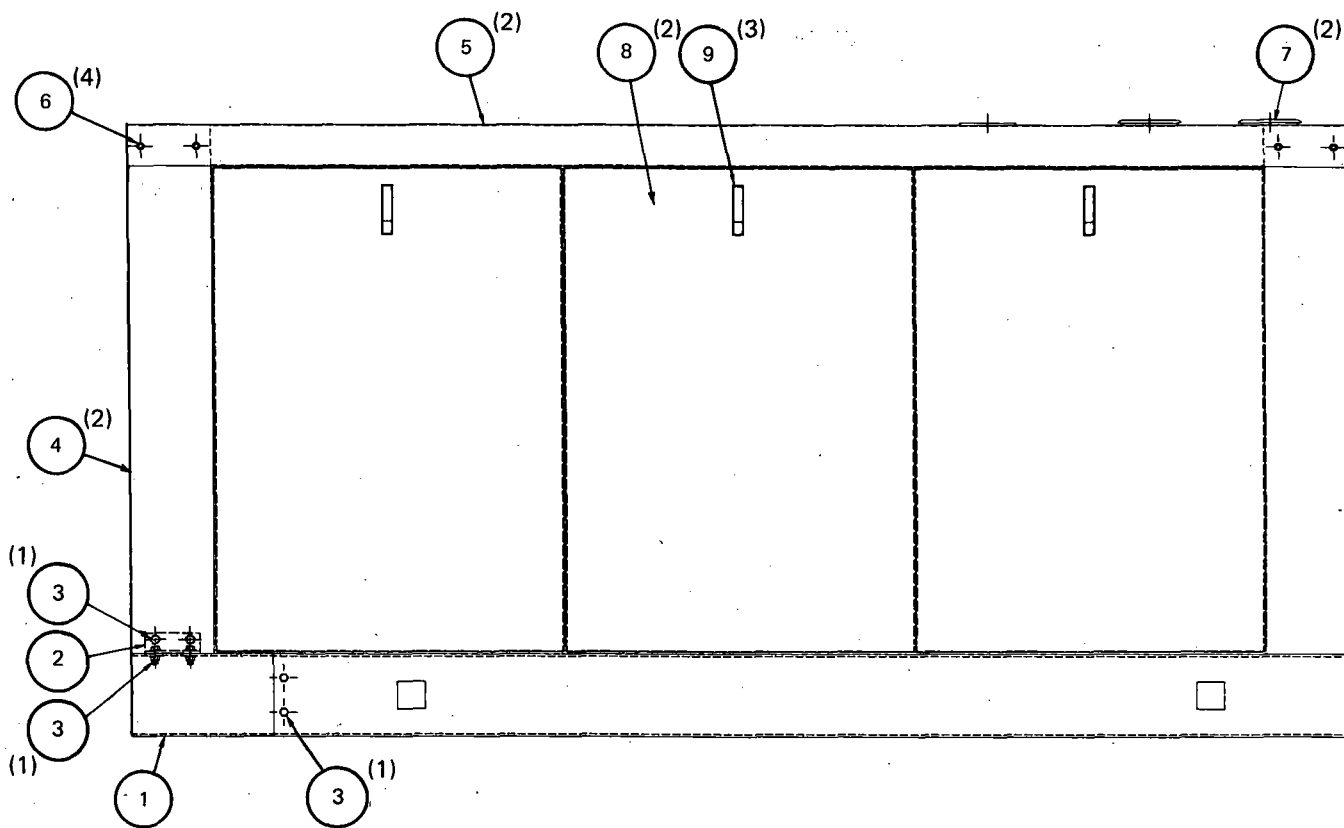
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cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

ASS'Y NO.	PART NO.	DESCRIPTION	QTY.	OPTION NO.				
				HP- 9903	HP- 9904	HP- 9909	HP- 9910	HP- 9924
1	3903680	Support, Rear Hsg.	2	x	x			
2	3909781	Bracket, Mounting	2	x	x	x	x	x
3(1)	S604	Washer, Lock 3/8	---->	12	12	8	8	8
	69280	Washer, Plain	---->	12	12	8	8	8
	3335041	Screw, Hexagon, M8-1.25 x 25	---->	12	12	8	8	8
	3009219	Nut, Regular Hexagon, M8-1.25	---->	12	12	8	8	8
4(2)	3903681	Panel, Back	1	x	x	x	x	
	3903861	Panel, Rear	1					x
5(2)	3903682	Hood, Engine	1	x		x		
	3904125	Hood, Engine	1		x			
	3904126	Hood, Engine	1				x	
	3909862	Hood, Engine	1					x
6(4)	S2267	Screw, Self-tapping Metal, 1/4	12	x	x	x	x	x
7(2)	3904605	Plug	2	x	x	x	x	x
8(2)	3903686	Door, Housing	6	x	x	x	x	x
9(3)	3904108	Latch, Side Panel	6	x	x	x	x	x

NOTES:

- (1) Use to fix the housing support, 1 to the sub-base and back panel, 4 through the mounting bracket, 2.
- (2) Before installing these items on a painted generator set, they should be painted inside and out.
- (3) Install after painting doors, item 8.
- (4) Before drilling the self-tapping screws in place, install the rear door and align the rear panel and hood to create an even gap between the rear support and rear doors.



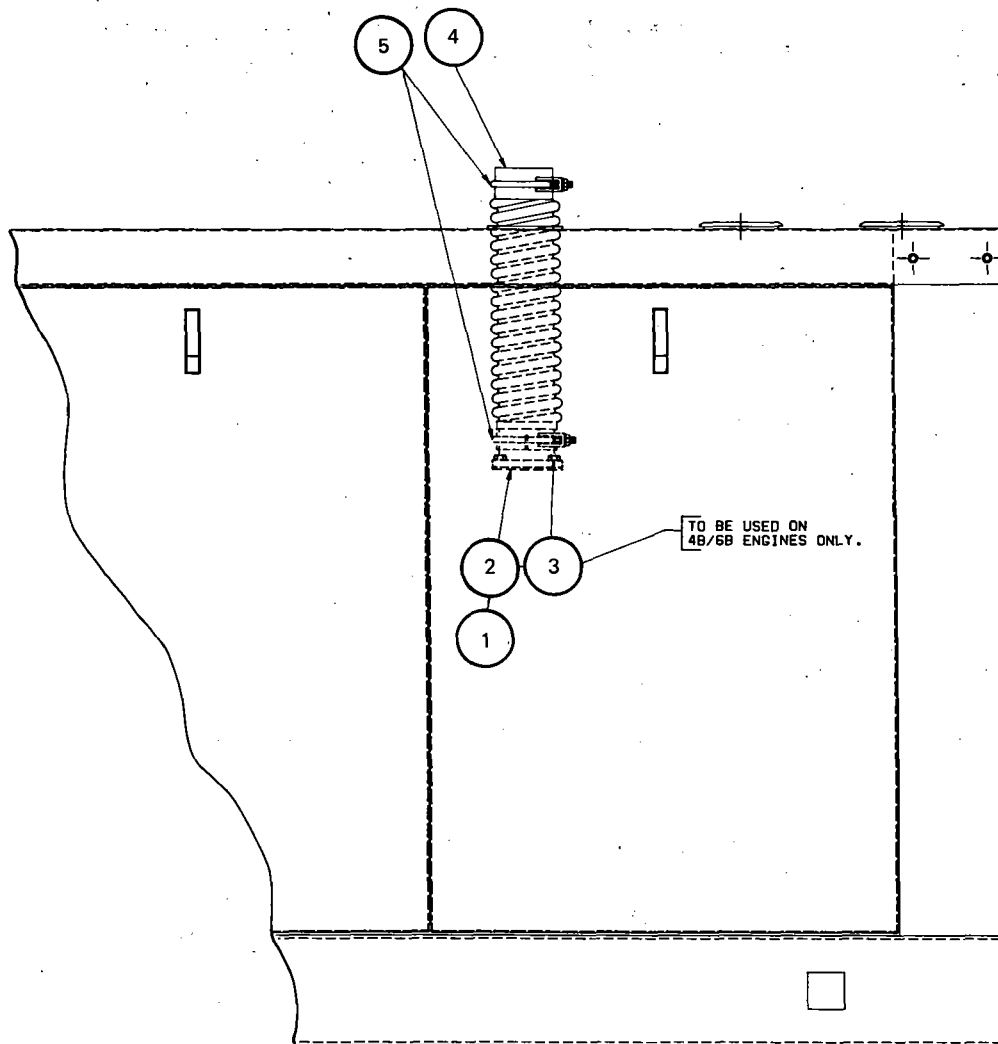
HOUSING KIT
DRAWING ASSEMBLY
ref. 3905284

ASSEMBLY PROCEDURE

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cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

ASSY NO.	PART NO.	DESCRIPTION	QTY.	OPTION NO.	
				PE- 9901	PE- 9902
1	3903251	Gasket	1	x	
2	3904113	Adapter, Exhaust	1	x	
3	3900623	Screw, Hex. Cap M10-1.5 x 2.5	4	x	
4	3904897	Hose, Flexible Exhaust	1	x	x
5	157610	Clamp, "U" Bolt	1	x	x



FLEXIBLE EXHAUST
CONNECTION
ref. 3904821

ASSEMBLY PROCEDURE

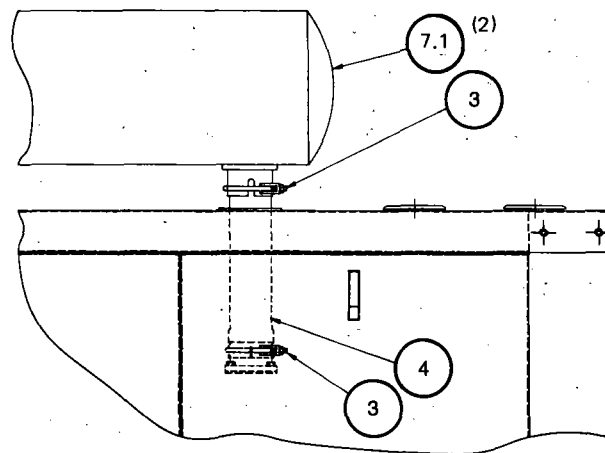
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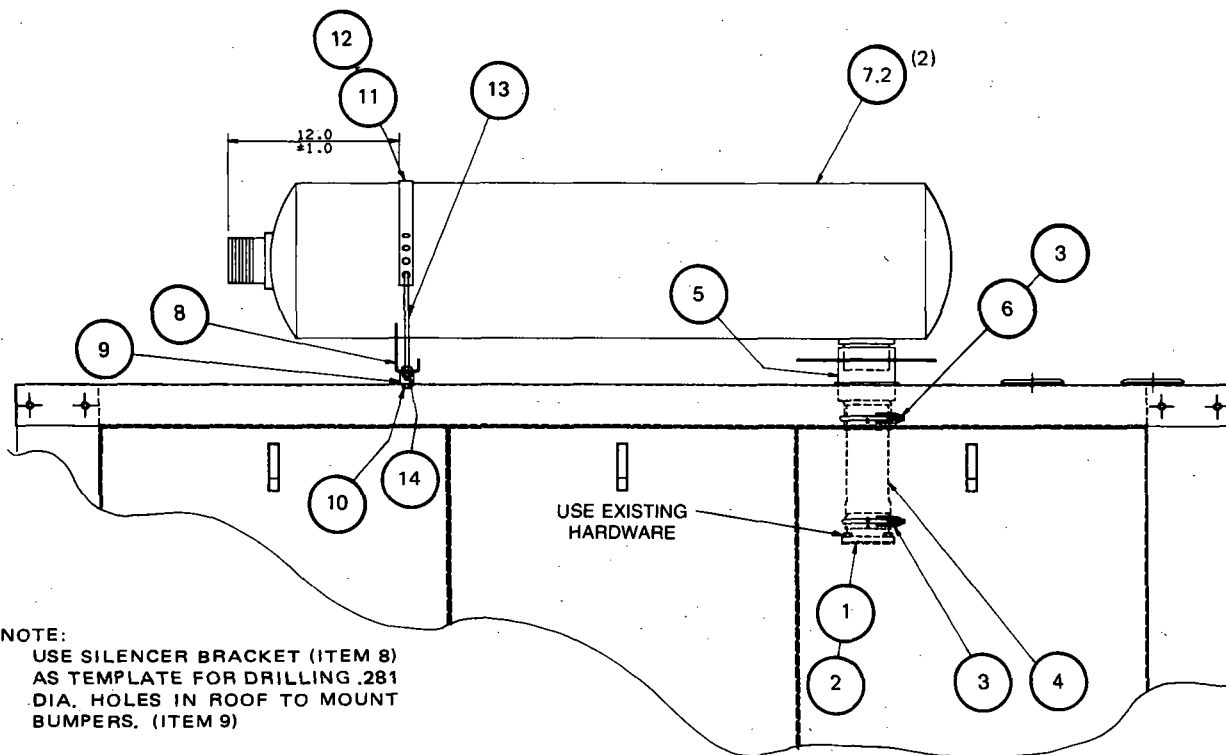
			OPTION NO.							
ASS'Y NO.	PART NO.	DESCRIPTION	QTY.	PE- 9903	PE- 9908	MU- 9901	MU- 9904	MU- 9907	PE- 9909	PE- 9910
1	3903251	Gasket	1		x					
2	3904113	Adapter, Exhaust	1		x					
3	3900623	Screw, Hex. Cap M10-1.5 x 1	4	x	x					
	157610	Clamp, "U" Bolt	2	x	x					
4	3904142	Pipe, Exhaust Outlet	1		x				x	
	3904023	Pipe, Exhaust Outlet	1		x					
	3905226	Pipe, Exhaust Outlet	1	x						
5	3904141	Adapter, Exhaust Outlet	1	x	x					
6	157610	Clamp, "U" Bolt	1							x
7.1(2)	3904123	Muffler (Industrial)	1			x				
7.2(2)	3904122	Muffler (Critical)	1				x	x		
8	3904143	Bracket, Muffler	1	x	x				x	x
9	3904930	Isolator, Vibration	2	x	x				x	x
10	3905544	Screw, Hexagon, 1/4-20 x 3/8	2	x	x				x	x
	181466	Washer, Lock	4	x	x				x	x
	S224	Nut, Hexagon 1/4-20	4	x	x				x	x
11	3905256	Brace, Muffler	1	x	x					
12	3905257	Brace, Muffler	1	x	x			x	x	x
13	3904140	Stud	2	x					x	x
14	70398	Nut, Lock 1/4-20	2	x	x				x	x

NOTES:

- (1) Not used with industrial muffler.
- (2) Install muffler loosely with bracket to mark drill hole location. Drill holes in roof and then bolt bracket in place through the isolators.



INDUSTRIAL TYPE MUFFLER MOUNTING



NOTE:
USE SILENCER BRACKET (ITEM 8)
AS TEMPLATE FOR DRILLING .281
DIA. HOLES IN ROOF TO MOUNT
BUMPERS. (ITEM 9)

CRITICAL TYPE MUFFLER MOUNTING

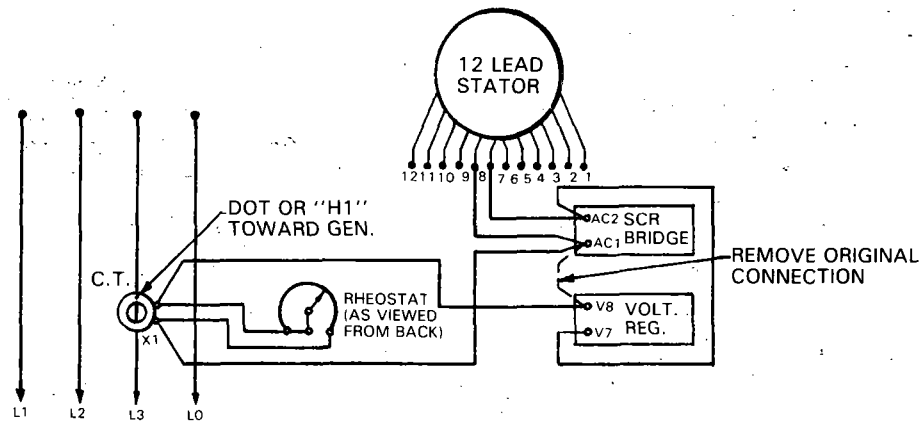
SILENCER MOUNTING
ref. 3904822

ASSEMBLY PROCEDURE

This bill of material is organized in the recommended order of assembly. The assembly number is shown on the drawing, is marked inside a circle and points to the detail of each part. Where the assembly pro-

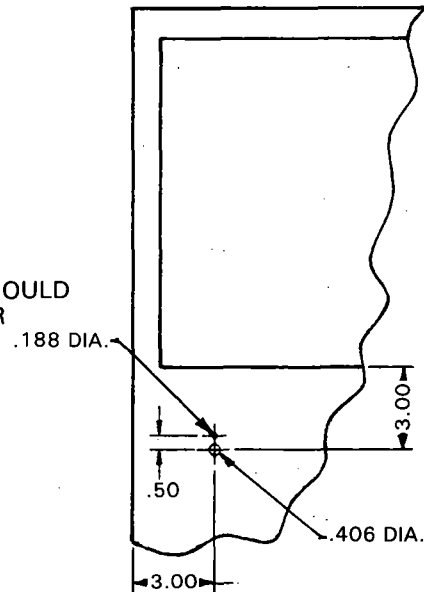
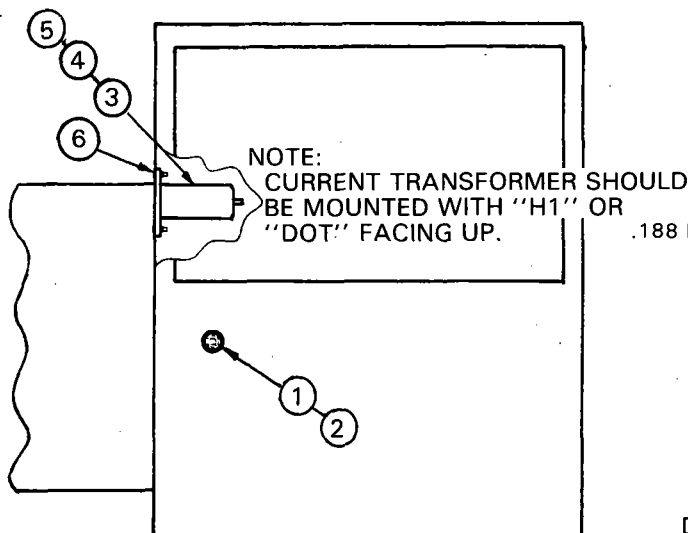
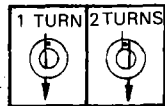
cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

NO.	PART NO.	DESCRIPTION	QTY.	OPTION NO.			
				MG9908	MG9909	MG9910	MG9911
1	3909872	Nameplate	1	x	x	x	x
2	3909870	Rheostat	1	x	x	x	
	3909871	Rheostat	1				x
3	3911035	Transformer	1	x			
4	3911036	Transformer	1		x		
5	3911037	Transformer	1			x	x
6	134377	Screw, Pan Head Machine #10 -- 24 x 5/8	4	x	x	x	x
	134557	Washer, Plain #10	4	x	x	x	x
	S-607	Washer, Lock #10	4	x	x	x	x
	103266	Nut, Hex Head Machine #10 -- 24	4	x	x	x	x

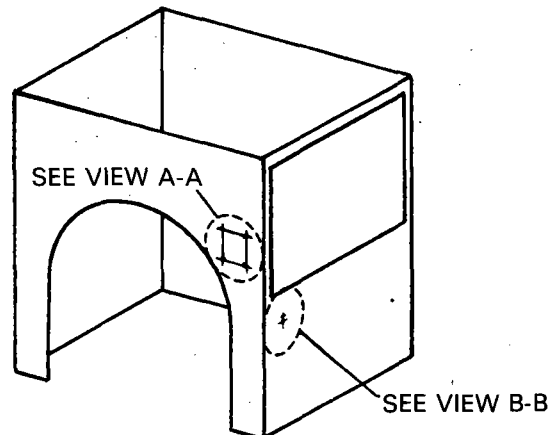
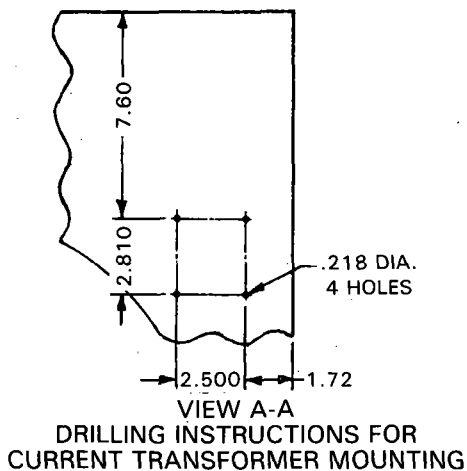


NOTE:

120-240 VOLT GENERATOR SETS REQUIRE ONE (1) TURN OF OUTPUT LEAD THROUGH CURRENT TRANSFORMER. 480 VOLT GENERATOR SET REQUIRES TWO (2) TURNS IN THE SAME DIRECTION OF OUTPUT LEADS THROUGH CURRENT TRANSFORMER.



VIEW B-B
DRILLING INSTRUCTIONS FOR
RHEOSTAT MOUNTING



REACTIVE DROOP/CROSS CURRENT
COMPENSATION KIT
R-SERIES
ref. 3911038

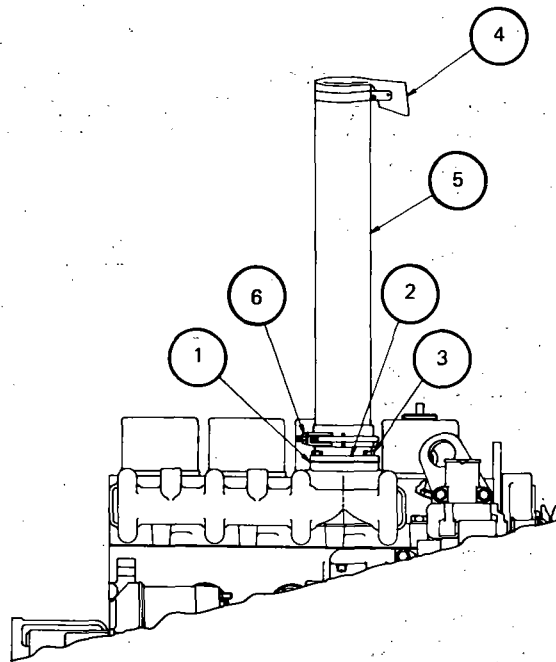
ASSEMBLY PROCEDURE

This bill of material is organized in the recommended order of assembly. The assembly number is shown on the drawing, is marked inside a circle and points to the detail of each part. Where the assembly pro-

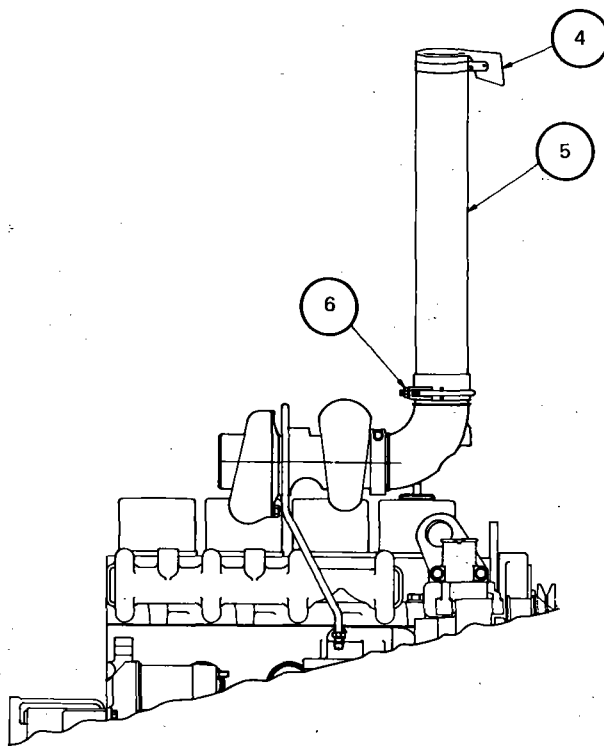
cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

ASSY NO.	PART NO.	DESCRIPTION	QTY.	OPTION NO.	
				PE- 9905	PE- 9906
1	3903251	Gasket	1	x	
2	3904113	Adapter, Exhaust	1	x	
3	3900623	Screw, Hex. Cap M10-1.5 x 2.5	4	x	
4	3904009	Cap, Rain	1	x	x
5	3904010	Pipe, Exhaust Outlet	1	x	x
6	157610	Clamp, "U" Bolt	1	x	x

NOTE: Install this kit after unit has been painted.



4B & 6B



4BT/4BTA & 6BT/6BTA

STACK PIPE
ref. 3904824

ASSEMBLY PROCEDURE

This bill of material is organized in the recommended order of assembly. The assembly number is shown on the drawing, is marked inside a circle and points to the detail of each part. Where the assembly pro-

cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

			<u>OPTION NO.</u>									
<u>ASS'Y</u>				<u>MU-</u>	<u>MU-</u>	<u>MU-</u>	<u>MU-</u>	<u>MU-</u>	<u>PE-</u>	<u>MU-</u>	<u>PE-</u>	<u>PE-</u>
<u>NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>9902</u>	<u>9908</u>	<u>9911</u>	<u>9903</u>	<u>9906</u>	<u>9904</u>	<u>9905</u>	<u>9907</u>	<u>9911</u>
1	3903251	Gasket	1								x	x
2	3904113	Adapter, Exhaust	1								x	
	3905995	Adapter, Exhaust	1									x(1)
3	3900623	Screw, Hex. Cap M10-1.5 x 25	4								x	x
4	157610	Clamp, "U" Bolt	2						x(2)		x	
	157610	Clamp, "U" Bolt	1									x
5(1)	3904023	Pipe, Exhaust Outlet	1								x(1)	
	3905226	Pipe, Exhaust Outlet	1						x(1)(2)			
6	3904009	Cap, Rain	1						x		x	x
7	3904005	Muffler ,Critical	1	x								
	3904006	Muffler, Critical	1		x							
	3904007	Muffler, Critical	1			x						
	3904124	Muffler, Critical	1							x		
	3905994	Muffler, Industrial	1				x	x				

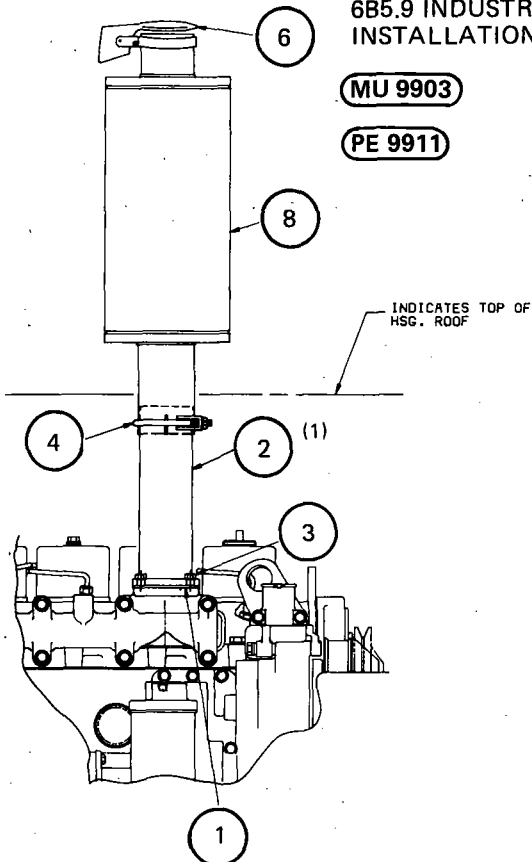
NOTES:

- (1) Exhaust extension pipes should only be installed when a power unit hood is used, and when necessary to clear the hood.
- (2) Only use with 4BT(A)3.9 engine. Install 6BT(A)3.9 industrial muffler, MU 9906 directly on the turbocharger elbow with one clamp, item 4.

6B5.9 INDUSTRIAL SILENCER INSTALLATION

MU 9903

PE 9911

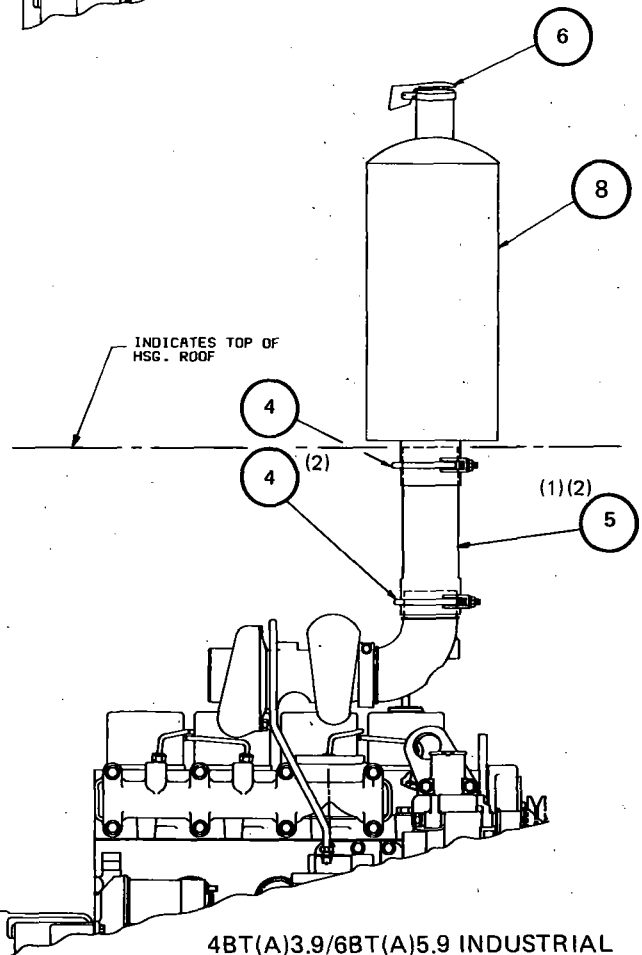
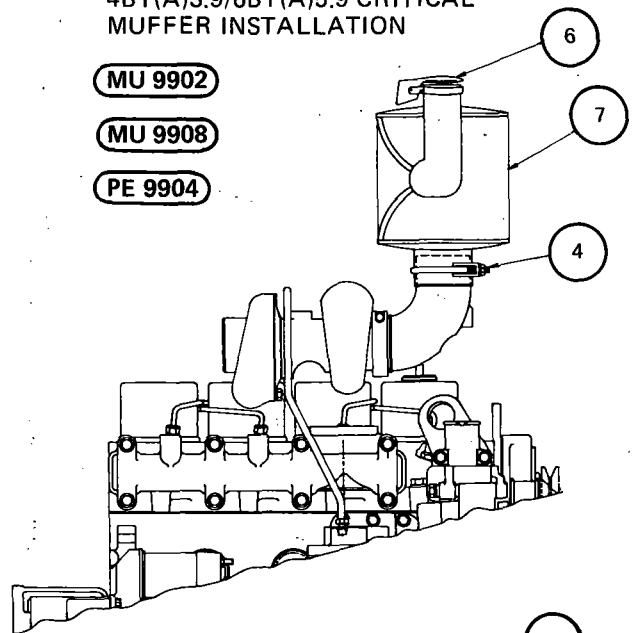


4BT(A)3.9/6BT(A)5.9 CRITICAL MUFFLER INSTALLATION

MU 9902

MU 9908

PE 9904



4BT(A)3.9/6BT(A)5.9 INDUSTRIAL MUFFLER INSTALLATION

MU 9903

MU 9906

MU 9911

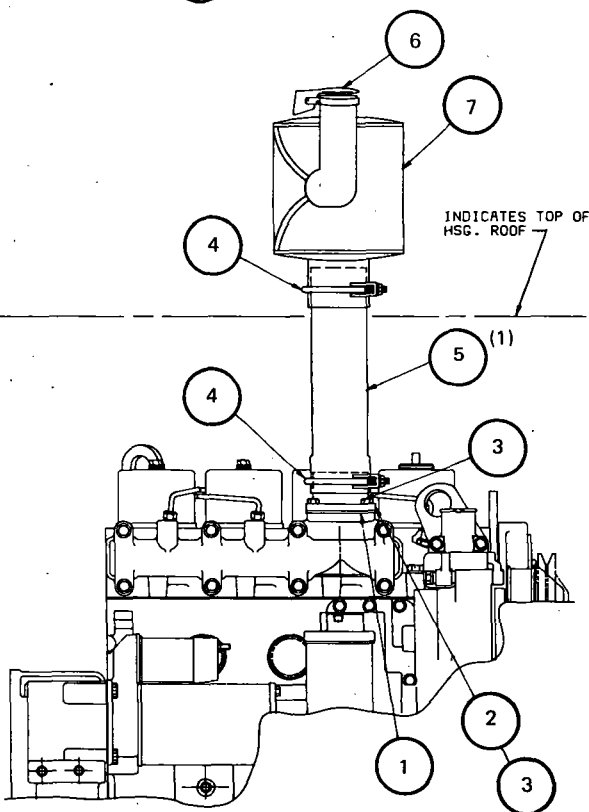
PE 9904

4B3.9 & 6B5.9 CRITICAL MUFFLER INSTALLATION

MU 9905

MU 9902

PE 9907



SILENCER MOUNTING
ref. 3904823/5996

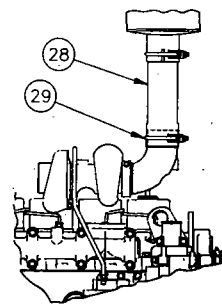
ASSEMBLY PROCEDURE

This bill of material is organized in the recommended order of assembly. The assembly number is shown on the drawing, is marked inside a circle and points to the detail of each part. Where the assembly pro-

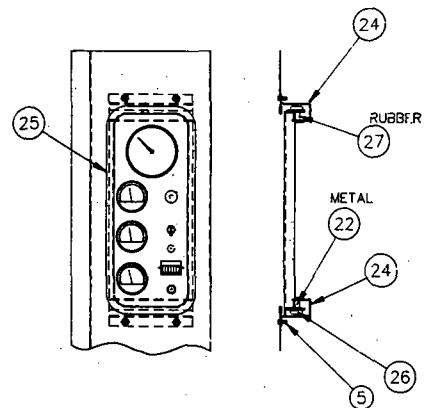
cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

OPTION NO.

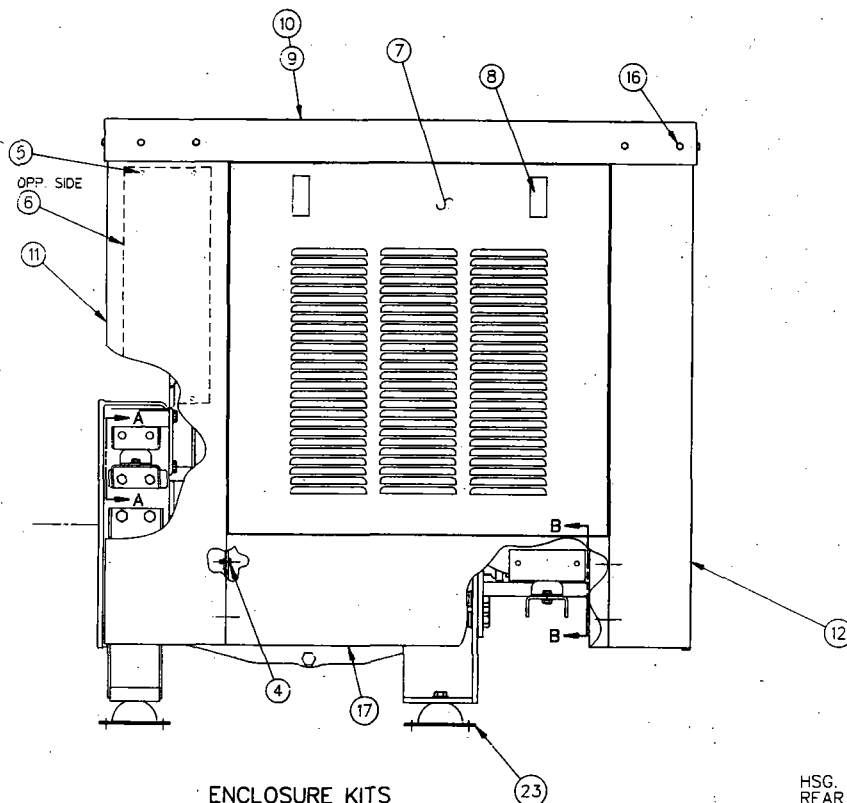
NO.	PART NO.	DESCRIPTION	QTY.	4B PED. FT.	4BT/4BTA	4B/4BT/4BTA	VIBRATION
				ENCLOSURE	PED. FT.	SIDE PANEL	
				HP9932	HP9933	HP9929	SA9904
1		Screw, H.C. M8-1.25 x 20	8	x	x		
	69208	Washer, Plain 5/16	8	x	x		
		Nut, Hex (Lock) M8-1.25	8	x	x		
2	3025802	Screw, H.C. M8-1.25 x 20	4	x	x		
		Nut, Hex (Lock) M8-1.25	4	x	x		
3	3905547	Screw, H.C. M12-1.75 x 20	4	x	x		
	3912315	Nut, Hex (Lock) M12-1.75	4	x	x		
4	3600815	Screw, H.C. M6-1.00 x 16	8	x	x		
5	3905545	Screw, Self Tapping Metal	4	x	x		
6	3907922	Plate, Cover	1	x	x		
7	3912272	Door, Housing	2			x	
	3907866	Plug, Plastic	8			x	
8	3912299	Latch, Flush	4			x	
9	3911181	Roof, Housing	1		x		
10	3911176	Roof, Housing	1	x			
11	3911175	Panel, Rear	1	x	x		
12	3911174	Panel, Front	1	x	x		
13	S-117	Screw, H.C. 3/8-16 x .75	4	x	x		
	146162	Washer, Plain 3/8	4	x	x		
	S-604	Washer, Lock 3/8	4	x	x		
14	3901249	Screw, H.C. M12-1.75 x 25	4	x	x		
	S-608	Washer, Lock 1/2	4	x	x		
15	3907139	Mount, Vibro	4	x	x		
16	3600815	Screw, H.C. M6-1.00 x 16	14	x	x		
17	3912270	Panel, Hsg. Side	2	x	x		
18	3912274	Support, Hsg.	1	x	x		
19	3912275	Bracket, Hsg. Support	2	x	x		
20	3912278	Bracket, Hsg. Mount Rear	4	x	x		
21		Screw, H.C. 3/8-16 x 2.50	2	x	x		
	S-223	Nut, Hex 3/8-16	2	x	x		
	S-604	Washer, Lock 3/8	2	x	x		
	146162	Washer, Plain 3/8	2	x	x		
22	3912349	Spacer	2	x	x		
23	3901408	Screw, H.C. M12-1.75 x 40	4				x
	3912315	Nut, Hex (Lock) M12-1.75	4				x
	3905252	Mount, Vibro	4				x
24	3902921	Bracket, Channel Support	2	x	x		
25		Channel, "U"	1	x	x		
26		Screw, RHM #8-32 x 1.38	4	x	x		
27	3907104	Collar, Snubbing	2	x	x		
28	3903975	Connector	1		x		
29		Clamp	1		x		



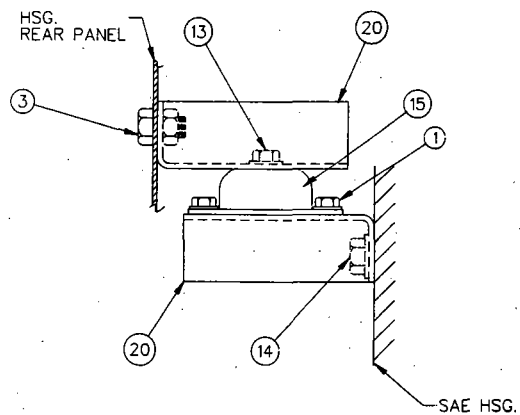
EXHAUST EXTENSION



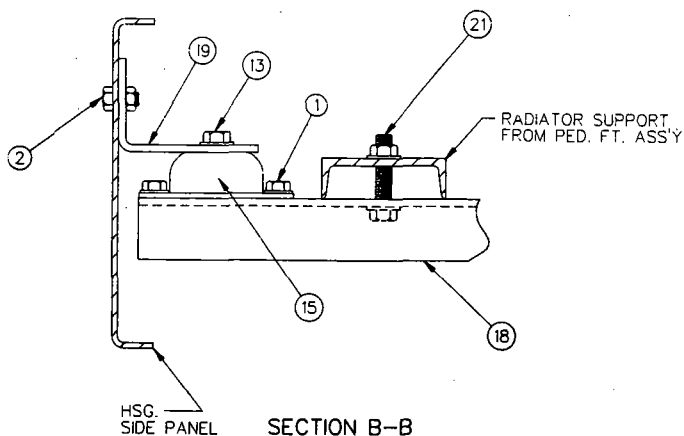
INSTRUMENT PANEL MOUNTING



ENCLOSURE KITS
4B/4BT/4BTA
H.D. POWER UNITS



SECTION A-A



SECTION B-B

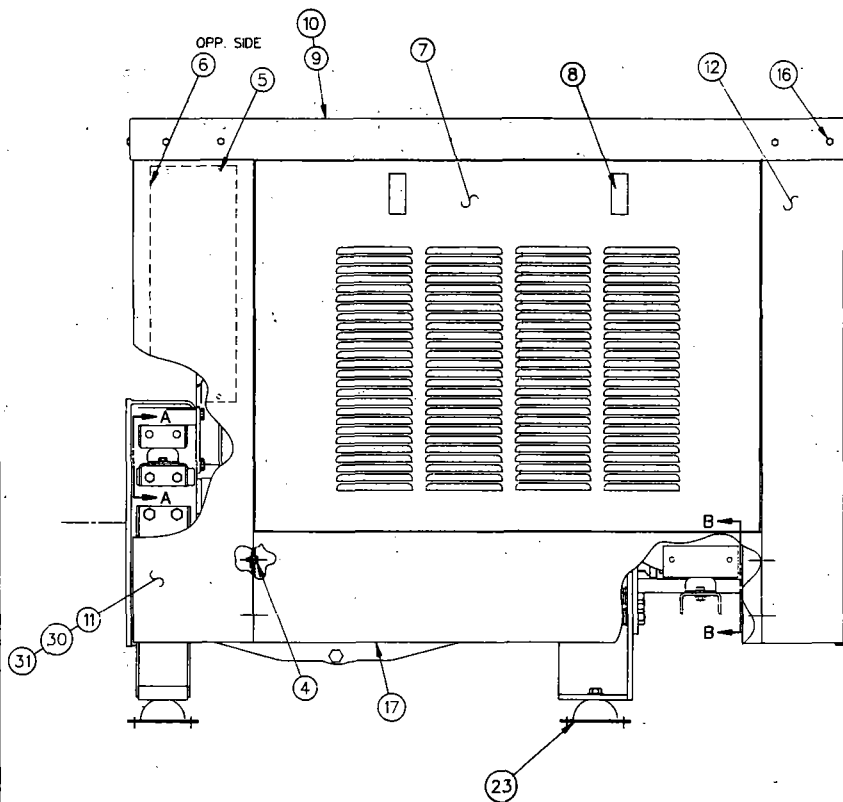
REFERENCE ASSEMBLY
ref. 3912323

ASSEMBLY PROCEDURE

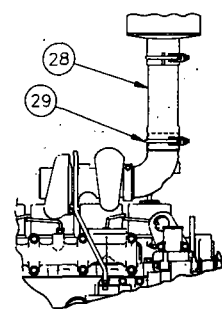
This bill of material is organized in the recommended order of assembly. The assembly number is shown on the drawing, is marked inside a circle and points to the detail of each part. Where the assembly pro-

cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

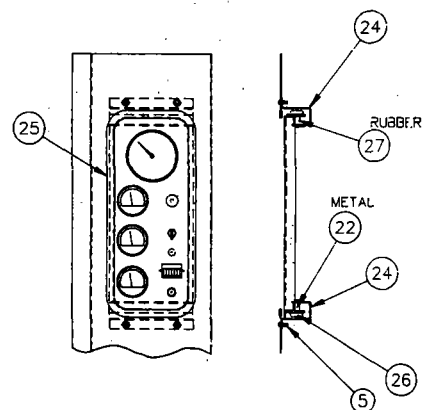
					OPTION NO.				
NO.	PART NO.	DESCRIPTION	QTY.	6B PED. FT.	6BT/6BTA PED.	6BTA PED. FT.	SIDE PANEL	VIBRATION	
				ENCLOSURE	FT. ENCLOSURE	ENCLOSURE			
				HP9934	HP9935	HP9936	HP9930	SA9904	
1		Screw, H.C. M8-1.25 x 20	8	x	x	x			
		Washer, Plain 5/16	8	x	x	x			
		Nut, Hex (Lock) M8-1.25	8	x	x	x			
2		Screw, H.C. M8-1.25 x 20	4	x	x	x			
		Nut, Hex (Lock) M8-1.25	4	x	x	x			
3		Screw, H.C. M12-1.75 x 20	4	x	x	x			
	3912315	Nut, Hex (Lock) M12-1.75	4	x	x	x			
4	3600815	Screw, H.C. M6-1.00 x 16	8	x	x	x			
5	3905545	Screw, Self Tapping Metal	4	x	x	x			
6	3907922	Plate, Cover	1	x	x	x			
7	3912272	Door, Housing	2				x		
	3907866	Plug, Plastic	8				x		
8	3912299	Latch, Flush	4				x		
9	3912267	Roof, Housing	1	x					
10	3912268	Roof, Housing	1		x	x			
11	3911175	Panel, Rear	1	x					
12	3911174	Panel, Front	1	x	x	x			
13	S-117	Screw, H.C. 3/8-16 x .75	4	x	x	x			
		Washer, Plain 3/8	4	x	x	x			
	S-604	Washer, Lock 3/8	4	x	x	x			
14	3901249	Screw, H.C. M12-1.75 x 25	4	x	x	x			
	S-608	Washer, Lock 1/2	4	x	x	x			
15	3907139	Mount, Vibro	4	x	x	x			
16	3600815	Screw, H.C. M6-1.00 x 16	14	x	x	x			
17	3912270	Panel, Hsg. Side	2	x	x	x			
18	3912274	Support, Hsg.	1	x	x	x			
19	3912275	Bracket, Hsg. Support	2	x	x	x			
20	3912278	Bracket, Hsg. Mount Rear	4	x	x	x			
21		Screw, H.C. 3/8-16 x 2.50	2	x	x	x			
		Nut, Hex 3/8-16	2	x	x	x			
		Washer, Lock 3/8	2	x	x	x			
		Washer, Plain 3/8	2	x	x	x			
22		Spacer	2	x	x	x			
23	3901408	Screw, H.C. M12-1.75 x 40	4						x
	3912315	Nut, Hex (Lock) M12-1.75	4						x
	3905252	Mount, Vibro	4						x
24	3902921	Bracket, Channel Support	2	x	x	x			
25		Channel, "U"	1	x	x	x			
26		Screw, RHM #8-32 x 1.38	4	x	x	x			
27	3907104	Collar, Snubbing	2	x	x	x			
28	3903975	Connector	1		x				
29		Clamp	1		x				
30	3912277	Panel, Rear	1		x				
31	3912325	Panel, Rear	1			x			



ENCLOSURE KITS
6B/6BT/6BTA
MOBILE / H.D. POWER UNITS

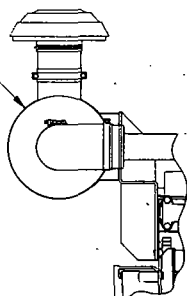


EXHAUST EXTENSION

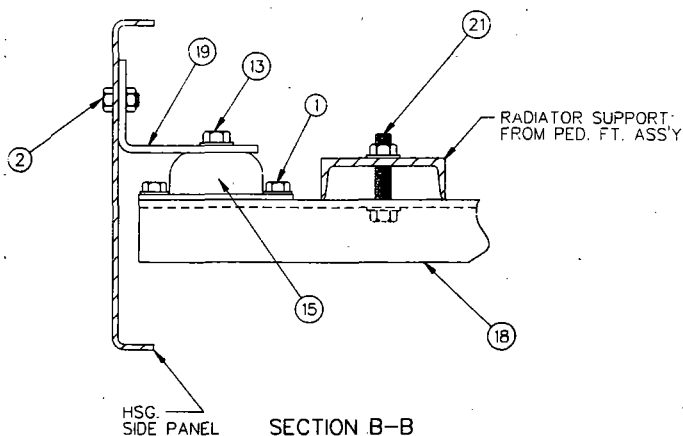


INSTRUMENT PANEL
MOUNTING

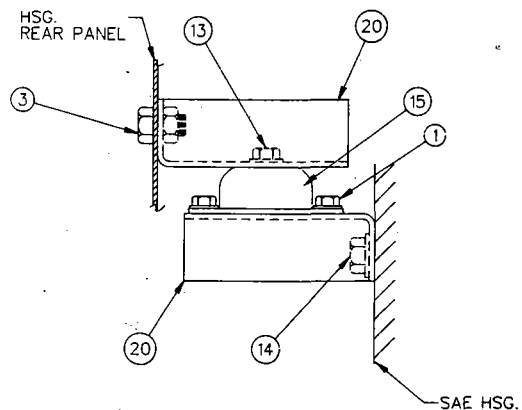
NOTE:
AIR CLEANER MUST BE
REMOVED FROM BRACKETS
TO INSTALL REAR HOUSING
PANEL.



6BTA ONLY



SECTION B-B



SECTION A-A

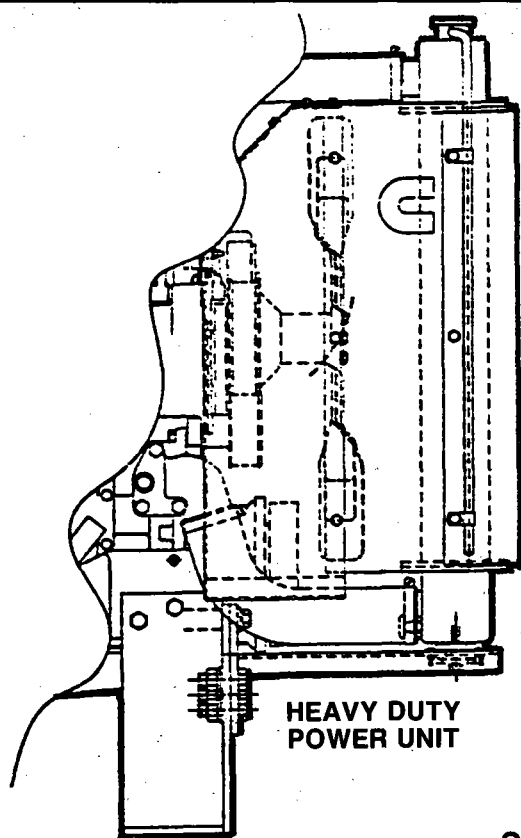
REFERENCE ASSEMBLY
ref. 3912324

ASSEMBLY PROCEDURE

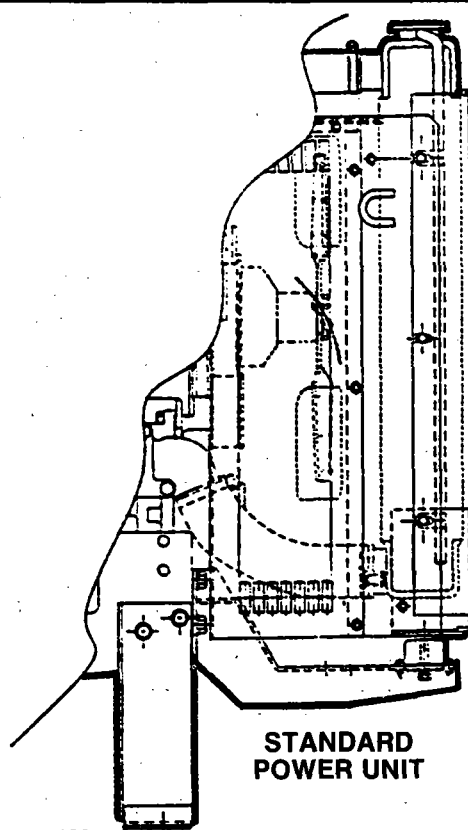
This bill of material is organized in the recommended order of assembly. The assembly number is shown on the drawing, is marked inside a circle and points to the detail of each part. Where the assembly pro-

cedure is not self-explanatory a note written below the bill of material describes the relevant procedure. Use standard recommended torque settings unless specifically noted on the drawing.

ITEM	PART NO.	DESCRIPTION	QTY.	RA 9924	OPTION NO.	
					RA 9927	RA 9938
1	3909782	Guard, Core	1	x		
2	146160	Washer, Plain 5/16	6	x		x
3	3909783	Guard, Core	1		x	
4	S-107	Screw, H.C. 5/16-18 x 3/4	6		x	
	103844	Washer, Lock 5/16	6		x	
	146160	Washer, Plain 5/16	6		x	
5	3912356	Guard Core	1			x

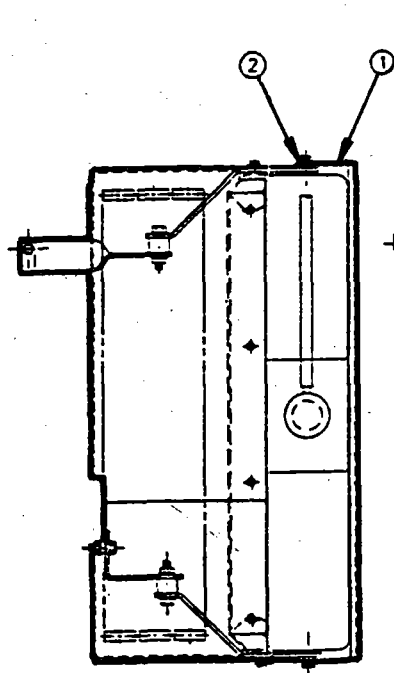


**HEAVY DUTY
POWER UNIT**

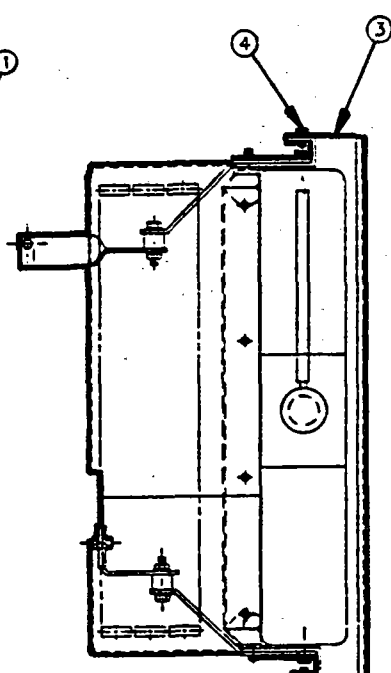


**STANDARD
POWER UNIT**

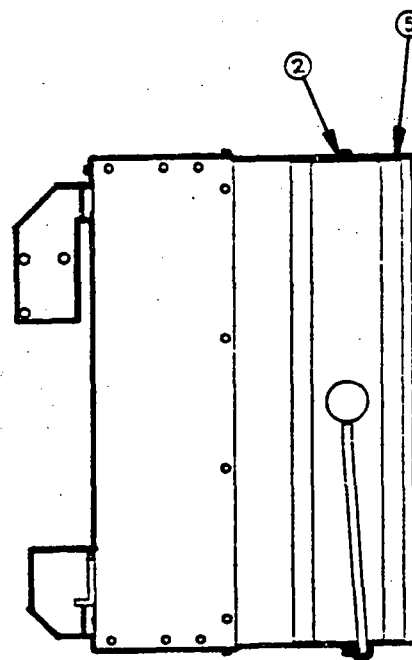
SIDE VIEW



**4B/4BT/4BTA
6B/6BT
STD. P.U.**



**6BTA
STD. P.U.**

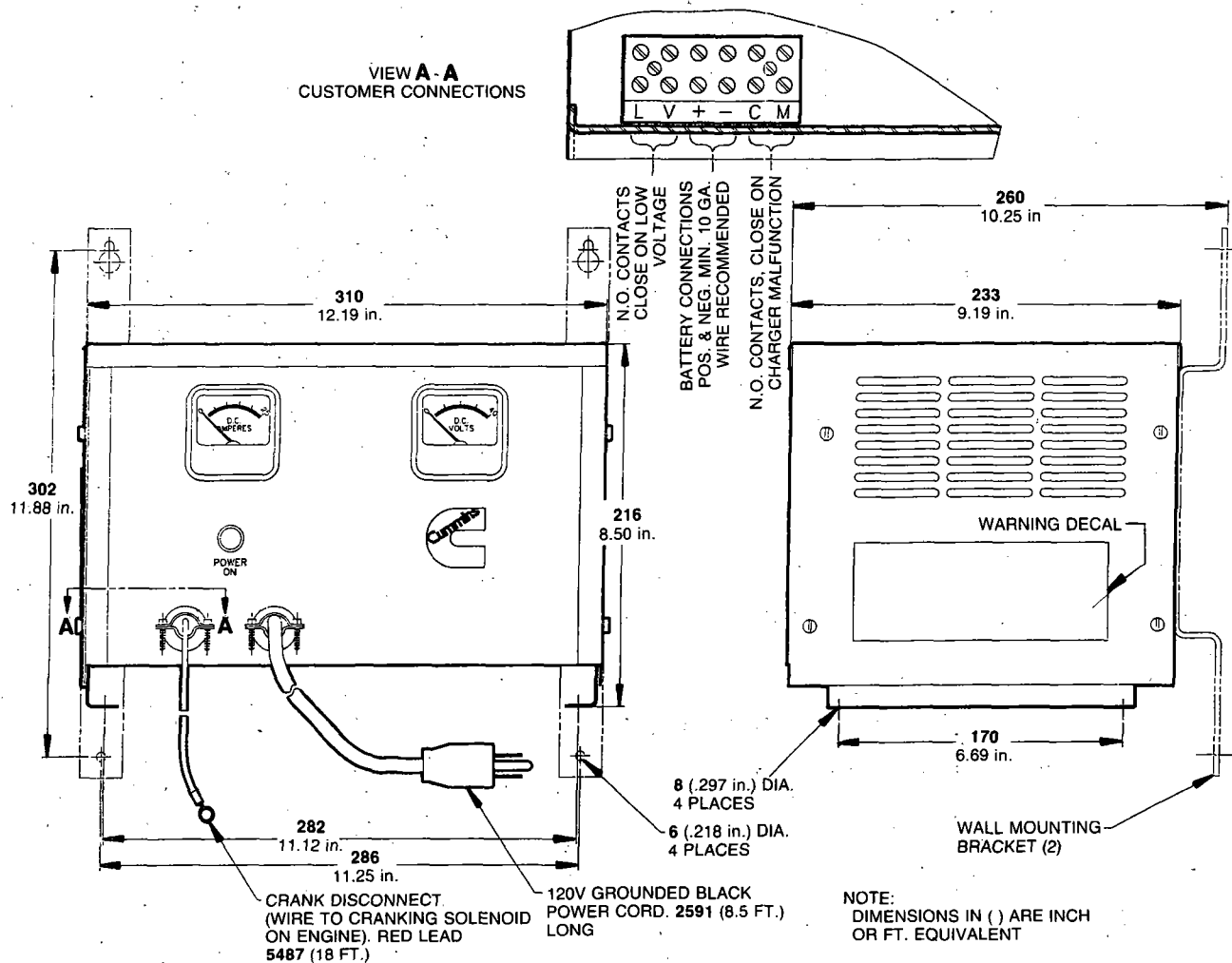


**4B/4BT/4BTA
6B/6BT/6BTA
HEAVY DUTY P.U.**

TOP VIEW

**RADIATOR CORE SHIELD
B-SERIES POWER UNITS**

VIEW A-A
CUSTOMER CONNECTIONS



FLOAT TYPE
BATTERY CHARGER
SB 9914

CROSS REFERENCE CUMMINS TO MFG. NO.

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3902331	253513	Flywheel
3903251	253266	Gasket
3903673	253057	Support, Engine--Rear
3903676	253060	Shroud, Fan
3903677	253061	Roof, Housing
3903679	253063	Bracket, Mounting
3903680	253064	Support, Rear Housing
3903681	253065	Shroud, Rear Housing
3903682	253066	Roof
3903683	253067	Shroud, Radiator
3903684	253068	Skid
3903685	253071	Cover, Radiator
3903686	253072	Door, Housing
3903688	253075	Support, Engine Rear
3903693	253080	Skid
3903695	253082	Fan
3903697	253084	Panel, Rear Meter Box
3903698	253085	Cover, Meter
3903700	253089	Panel
3903702	253091	Plate
3903703	253092	Latch, Flush
3903705	253094	Fan
3903707	253096	Door, Housing
3903818	253093	Spacer, Fan
3903875	A-253104	Cleaner Assembly, Air
3903876	A-253105	Cleaner Assembly, Air
3903877	A-253106	Cleaner Assembly, Air
3903878	253107	Element, Air Cleaner
3903879	253108	Element, Air Cleaner
3903889	290357	Acutator
3903891	253195	Decal
3903892	253197	Nameplate
3903893	253198	Nameplate
3903901	A-253229	Engine Assembly
3903902	A-253230	Engine Assembly
3903903	A-253232	Engine Assembly
3903907	253136	Mount, Air Cleaner
3903908	A-253233	Engine Assembly
3903949	253258	Decal
3903950	253259	Tag, Instruction
3903952	253240	Switch, Rotary
3903953	253241	Lens, Cliplite
3903954	253242	Lens, Cliplite

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3903956	253317	Bracket, Tank Mounting
3903957	253318	Strap, Tank
3903959	253320	Box, Meter (Screened)
3903960	253321	Cable, Throttle
3903961	253322	Switch, Hi-Temp Cutoff
3903962	253323	Switch, Pressure
3903963	253324	Connector, Ball Joint
3903964	253424	Stud
3903972	253328	Harness, Wiring
3903973	253329	Voltmeter, Battery
3903974	253330	Strip, Terminal
3903975	253164	Connector
3903979	253331	Harness, Wiring
3903980	253332	Lamp
3903981	253335	Bracket, Relay
3903983	253172	Hose, Radiator
3903985	253338	Bracket, Throttle Cable Mounting
3903986	253339	Bolt, "U"
3903997	253348	Button, Plug
3903998	253349	Harness, Wiring
3903999	A-253351	Panel Assembly, Annunciator
3904000	253355	Line, Suction
3904001	253358	Nameplate
3904002	253359	Nameplate
3904003	253362	Nameplate
3904004	253363	Nameplate
3904005	253187	Silencer (Residential)
3904006	253188	Silencer (Critical)
3904007	253189	Silencer (Residential)
3904008	253190	Silencer (Critical)
3904009	253191	Cap, Rain
3904010	253192	Pipe, Stack
3904011	253362	Harness, Wiring
3904012	253363	Hose, Molded
3904013	253199	Bracket, Meter Panel
3904015	253201	Tachometer
3904019	253205	Switch, Ignition Start
3904020	253364	Hook, Lifting
3904023	253367	Pipe, Stack
3904024	253368	Rack, Battery
3904025	253369	Battery
3904026	253371	Spacer, Generator
3904027	253372	Skid
3904060	253481	Hose, Air CC.
3904108	253373	Latch
3904109	253215	Heater, Oil Pan
3904110	253216	Heater, Engine Water
3904113	253219	Adapter
3904118	253224	Breaker, Circuit

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3904119	253225	Breaker, Circuit
3904120	253226	Breaker, Circuit
3904121	253234	Spacer, Fan
3904122	253236	Silencer (Critical)
3904123	253237	Silencer (Industrial)
3904124	253239	Silencer (Critical)
3904125	253250	Roof, Housing
3904126	253251	Roof, Housing
3904127	253260	Support, Junction Box
3904128	253261	Cover, Side
3904131	253267	Roof
3904135	253272	Harness, Wiring
3904136	A-253273	Box Assembly, Meter
3904137	253274	Transformer
3904139	253278	Heater, Frost Plug
3904140	253307	Stud Holddown
3904141	253308	Adapter, Exhaust
3904142	253309	Pipe, Exhaust
3904143	253310	Bracket, Muffler
3904147	253315	Tank, Fuel
3904466	A-253606	Starter Assembly
3904589	A-253377	Engine Assembly
3904590	A-253378	Engine Assembly
3904591	A-253379	Engine Assembly
3904592	A-253380	Engine Assembly
3904593	253381	Bracket, Air Cleaner
3904595	253383	Panel, Rear
3904597	253387	Bracket, Air Cleaner
3904598	253388	Bracket, Air Cleaner
3904600	253390	Panel, Wiring Harness
3904604	253398	Support, Junction Box
3904605	253399	Plug
3904606	253400	Bracket
3904607	A-253401	Panel Assembly
3904610	253409	Element, Air Filter
3904611	241600	Relay
3904612	269958	Relay
3904615	223316	Fuse
3904621	238736	Meter, Hour
3904622	250512	Switch, Thermal
3904625	283375	Switch, Toggle
3904790	253342	Knob, Pointer
3904791	259821	Switch, Selector
3904792	268310	Bulb, Light
3904793	282814	Voltmeter, AC
3904794	282897	Gauge, Oil Pressure
3904795	282898	Gauge, Water Temperature
3904796	295069	Meter, Frequency
3904797	241481	Switch, Hi-Temp Shutoff

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3904800	243273	Fuse--5 Amp
3904801	248362	Relay
3904802	282896	Fuse--4 Amp
3904803	283645	Fuse--15 Amp
3904804	287524	Switch, Pushbutton
3904805	A-292302	Board Assembly Circuit
3904807	253412	Spring, Throttle
3904809	B-253000	Meter Box w/Ammeter
3904811	D-253000	NFPA Cont.
3904813	F-253000	P4BT3.9 Power Unit
3904814	G-253000	Controllers, Generator Set
3904816	J-253000	Voltage Regulator
3904817	K-253000	Heater, Oil Pan
3904818	L-253000	Heater, Engine Water
3904821	P-253000	Flex. Exhaust--Open Generator Se
3904822	R-253000	Silencer, Hsd. Generator Set
3904823	S-253000	Silencer, Hsd. Power Unit
3904824	T-253000	Pipe, Stack
3904825	U-253000	P.T.O.s
3904868	X-253000	Lift Hook--Generator Set
3904869	Y-253000	Heater, Generator
3904870	Z-253000	Tank, Fuel
3904871	AA-253000	Governor, Isochronous
3904873	AC-253000	Battery Rack
3904875	253415	Cover, Controller Box
3904876	253417	Harness, Wiring
3904878	257011	Exciter Field Assembly
3904880	257064	Stator
3904881	257040	Stator
3904882	257012	Bracket, End
3904883	257006	Ring, Tolerance
3904884	253420	Fan, Suction
3904885	253421	Fan, Pusher
3904886	253422	Bracket, Solenoid
3904887	253423	Bracket, Solenoid
3904888	253428	Heater, Engine Water
3904890	253430	Bracket, Actuator
3904891	253432	Power Takeoff 11 1/2" 1 Plate
3904892	253433	Power Takeoff 11 1/2" 2 Plate
3904893	253436	Harness, Wire
3904894	253437	Heater, Oil 240 V.
3904895	253439	Knob
3904896	237277	Stud
3904897	X-797-15	Hose, Flexible Exhaust
3904899	X-386-36	Hose
3904900	X-380-4	Connector
3904901	X-426-9	Clamp, Hose
3904902	X-211-6	Elbow, Street
3904903	264390	Sender, Oil Pressure Ga.

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3904904	268298	Sender, Water Temperature
3904905	291891	Solenoid
3904906	SWON-1810-1412	Lead
3904907	SW15-1803-1412	Lead
3904908	259919	Mount, Vibro
3904909	X-283-7	Terminal
3904910	268042	Switch, Toggle
3904911	SW15-1804-152152	Lead
3904912	SW-1806-15214	Lead
3904913	X-672-14	Clamp
3904914	X-507-1	Hose, Radiator
3904915	X-522-47	Tubing, Steel
3904916	A-279379	Cleaner Assembly, Air
3904917	279380	Mount, Air Cl.
3904918	X-507-3	Hose, Radiator
3904920	X-786-39	Breaker, Circuit
3904921	X-786-40	Breaker, Circuit
3904922	X-786-29	Breaker, Circuit
3904923	LN-0224-3601	Lead
3904924	LN-0624-3615	Lead
3904925	X-786-28	Breaker, Circuit
3904926	291269	Heater, Strip
3904927	253440	Plate, Mounting
3904928	253441	Strip, Marker
3904929	A-253442	Interconnection Assembly
3904930	259632	Bumper
3904931	X-6033-2	Grommet
3904932	253341	Ammeter
3904933	LN-1804-1414	Lead
3904934	259414	Transformer, Current
3904935	282954	Ammeter
3904936	A-253443	Potentiometer Assembly
3904937	X-6040-2	Channel "U"
3904938	279315	Cover, Junction Box
3904940	253447	Support, Front Engine
3904941	253448	Support, Front Engine
3904942	253449	Bracket, Housing
3904943	253450	Rail, Side
3904944	253451	Rail, Side
3904945	253452	Support, Radiator
3905226	253454	Pipe, Exhaust
3905227	253445	Controller, Electronic
3905228	271097	Joint, Ball
3905229	X-352-53	Stud
3905230	286867	Harness Wiring
3905231	X-468-1	Tie, Cable
3905232	290358	Pickup, Magnetic
3905233	LN-1828-2204	Lead
3905234	LN-1648-2214	Lead

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3905235	LN-1620-2215	Lead
3905236	X-217-6	Pipe
3905237	X-216-24	Coupling
3905238	253462	Cover, Junction Box
3905239	253467	Nameplate
3905240	253469	Nameplate
3905251	250081	Clamp, Hose
3905252	244210	Damper, Vibration
3905253	290418	Strap, Ground
3905254	X-426-6	Clamp, Hose
3905255	X-352-51	Stud
3905256	290864	Strap, Muffler
3905257	290865	Strap, Muffler
3905258	X-426-2	Clamp, Hose
3905259	X-426-1	Clamp, Hose
3905260	X-545-42	Cable, Battery
3905261	X-545-44	Cable, Battery
3905262	X-545-45	Cable, Battery
3905263	X-545-46	Cable, Battery
3905264	274200	Stud
3905265	288614	Clamp, Battery
3905266	288582	Tray, Battery
3905267	253413	Diagram, Wiring
3905269	A-253487	Control Assembly, Manual
3905270	253488	Strip, Marker
3905271	253489	Harness, Wiring
3905273	253492	Switch, Pushbutton (N.D.)
3905274	253493	Switch, Pushbutton (N.C.)
3905275	253495	Diagram, Wiring
3905276	253496	Diagram, Wiring
3905277	253497	Diagram, Wiring
3905280	253500	Kit, Hardware
3905281	253501	Kit, Hardware
3905282	M-253000	Drawing, Assembly
3905283	N-253000	Drawing, Assembly
3905284	V-253000	Drawing, Assembly
3905285	W-253000	Drawing, Assembly
3905286	253502	Transformer, Current 250/5
3905287	253503	Transformer, Current 400/5
3905288	X-256-3	Valve, Drain
3905289	X-377-11	Connector, Cable
3905290	290435	Decal
3905291	259365	Decal
3905292	C-253000	Drawing, Assembly
3905293	E-253000	Drawing, Assembly
3905295	X-339-8	Clip, Wire
3905296	X-593-3	Grommet
3905297	X-6033-3	Grommet
3905298	269359	Package, SCR Power

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3905299	240978	Switch, Temperature
3905300	241308	Switch, Hi-Temp. Shutoff
3905301	269373	Lamp
3905302	282972	Relay
3905303	A-282778	Board Assembly, Circuit
3905304	238426	Holder, Fuse
3905431	253271	Decal
3905506	253506	Diagram, Interconnection
3905507	241623	Sensor, Speed
3905508	X-301-23	Plug, Button
3905509	240976	Switch, Temperature
3905510	257070	Bracket, Sensor Mounting
3905511	257077	Actuator, Magnetic
3905512	271662	Switch, Pressure
3905513	290090	Switch, Temperature
3905514	B-287742	Board Assembly, Circuit
3905515	253508	Bracket, Spring
3905516	259490	Kit, SCR Module
3905517	253512	Diagram, Wiring
3905518	AE-253000	Drawing, Assembly
3905519	A-257457	Rotor Assembly
3905520	A-257454	Rotor Assembly
3905521	X-758-2	Bearing, Ball
3905522	A-257444	Rectifier Assembly
3905523	257018	Adapter, Generator
3905524	257015	Disc, Armature Drive
3905525	257020	Fan, Generator
3905526	X-400-132	Spacer
3905527	257046	Guard, Generator Fan
3905528	257442	Clip, Speed
3905529	AF-253000	Drawing, Assembly
3905530	AG-253000	Drawing, Assembly
3905531	253514	Harness, Wiring
3905532	253515	Harness, Wiring
3905533	AH-253000	Drawing, Assembly
3905535	X-284-23	Grommet
3905536	223022	Damper, Vibro
3905541	AJ-253000	Drawing, Assembly
3905542	AK-253000	Drawing, Assembly
3905544	X-5-17	Screw, H.C. 1/4-20x3/8
3905545	X-794-2	Screw, Drill
3905546	X-6051-2	Screw, H.C. M10x1.5030MM
3905547	X-6052-1	Screw, H.C. M12x1.75 25MM
3905548	X-6053-1	Nut, Hex, M6x1
3905550	X-786-31	Breaker, Circuit
3905551	X-49-2	Screw, R.H.M. 6-32x3/8
3905552	X-786-16	Breaker, Circuit
3905553	X-786-38	Breaker, Circuit
3905554	X-50-46	Screw, R.H.M. 10-24x4

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3905555	259686	Harness, Wiring
3905556	X-6050-6	Screw, H.C. M8x1.25 100MM
3905557	238451	Nameplate
3905558	A-257202	Alternator Assembly
3905559	A-257200	Alternator Assembly
3905561	253524	Harness, Wiring
3905567	253532	Decal
3905568	X-426-5	Clamp, Hose
3905569	X-641-5	Hose, Air Intake
3905570	255224	Voltmeter
3905571	253535	Guard, Fan (Top)
3905572	253536	Guard, Fan (R.H.)
3905573	253537	Guard, Fan (L.H.)
3905574	253538	Support, Radiator
3905575	253539	Support, Radiator
3905578	268371	Relay, Cranking
3905579	SWNC-1804-1514	Lead
3905580	291657	Adapter
3905581	253542	Diagram, Wiring
3905582	AL-253000	Drawing, Assembly
3905583	AM-253000	Drawing, Assembly
3905584	AN-253000	Drawing, Assembly
3905585	None	Cummins Reference Drawing
3905946	AP-253000	Drawing, Assembly
3905947	A-257489	Rotor Assembly
3905948	AR-253000	Drawing, Assembly
3905949	A-257203	Alternator Assembly
3905950	A-257300	Alternator Assembly
3905951	A-257460	Rotor Assembly
3905952	257065	Stator Assembly
3905953	257164	Stator Assembly
3905954	257167	Bracket, End
3905955	257172	Exciter Field Assembly
3905956	257168	Ring, Tolerance
3905957	X-758-6	Bearing, Ball
3905958	A-257445	Rectifier Assembly
3905959	257175	Adapter, General
3905960	257102	Disc, Armature Drive
3905961	257173	Fan, Generator
3905962	257179	Guard, Fan
3905964	AT-253000	Drawing, Assembly
3905965	A-253545	Panel Assembly 12 Volt
3905968	253554	Bracket, Actuator
3905969	AU-253000	Drawing, Assembly
3905970	AV-253000	Drawing, Assembly
3905971	AW-253000	Drawing, Assembly
3905972	AX-253000	Drawing, Assembly
3905975	253557	Brace, Radiator
3905976	253558	Support, Engine Front R.H.

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3905977	253559	Support, Engine Front L.H.
3905978	X-352-54	Stud
3905980	None	Cummins Installation Drawing
3905981	None	Cummins Installation Drawing
3905982	255282	Frame, Air Duct
3905983	AY-253000	Drawing, Assembly
3905984	X-426-13	Clamp, Hose
3905985	253565	Support, Radiator--L.S.
3905986	253566	Support, Radiator--R.S.
3905987	253567	Shroud, Fan
3905988	253568	Guard, Fan--L.S.
3905989	253569	Guard, Fan--R.S.
3905990	253570	Guard, Fan--Top
3905993	235495	Spring, Governor
3905994	253573	Silencer, Exhaust
3905995	253574	Adapter, Exhaust
3905996	AZ-253000	Drawing, Assembly
3905998	253580	Harness, Wiring
3905999	253581	Bracket, Radiator Support
3906000	253582	Bracket, Radiator Support
3906001	253583	Bracket, Radiator Support
3906003	289372	Clamp, Exhaust
3906004	253585	Shroud, Fan
3906005	253586	Mount, Rubber
3906007	B-253402	Board Assembly, Circuit
3906008	None	Installation Diagram
3906009	A-255345	Radiator Assembly
3906010	A-255350	Radiator Assembly
3906011	B-253319	Panel Assembly
3906012	B-253490	Panel Assembly
3906013	253604	Pick-up Magnetic
3906014	253609	Ammeter
3906015	253610	Transformer
3906016	253613	Silencer
3906017	253614	Silencer
3906018	253618	Pipe Exhaust
3906019	253602	Nameplate
3906020	255344	Fan, Blower
3906021	255341	Shroud, Fan
3906023	253620	Fan, Blower
3906024	253622	Nameplate
3906025	A-253623	Engine Assembly
3907071	253628	Fan, Sucker
3907072	253629	Fan, Sucker
3907073	A-253630	Engine Assembly
3907074	253632	Guard, Fan
3907075	253633	Harness, Wiring
3907078	253640	Box, Junction
3907079	253641	Bracket, Control Panel

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3907080	253642	Cover, Side
3907081	253643	Bracket, Control Panel
3907082	253644	Bracket, Control Panel
3907084	None	Cummins Installation Diagram
3907085	None	Cummins Installation Diagram
3907086	253646	Brace
3907087	253647	Bracket
3907088	253662	Cleaner, Air
3907089	BC-253000	Drawing Assembly
3907090	BD-253000	Drawing Assembly
3907091	253663	Cleaner, Air
3907092	253664	Cleaner, Air
3907093	253665	Hose, Molded
3907094	253666	Hose, Hump Reducer
3907095	253667	Hose, Molded
3907096	253668	Cap
3907097	253669	Bracket, Air Cleaner
3907098	BE-253000	Drawing Assembly
3907099	BF-253000	Drawing Assembly
3907100	253674	Band, Mounting
3907101	253676	Mount, Vibro
3907102	253677	Bracket, Control Panel
3907103	253695	Panel, Silkscreen
3907104	253679	Collar, Snubbing
3907105	A-253680	Panel Assembly
3907106	A-253681	Panel Assembly
3907109	BG-253000	Drawing, Assembly
3907110	BH-253000	Drawing, Assembly
3907111	253694	Bracket, Control Panel
3907112	B-253193	Charger Assembly Battery
3907113	253701	Cable Throttle
3907114	241739	Diode
3907115	255262	Resistor
3907118	253598	Panel
3907119	268015	Switch Run/Off
3907120	253600	Panel
3907121	253326	Panel
3907122	282830	Terminal Strip
3907123	253386	Alarm Horn
3907124	241736	Relay, Alarm Horn
3907125	246115	Terminal Strip
3907126	223096	Terminal Strip
3907127	X-6048-2	Jumper
3907128	153659	Bushing, Reducer
3907129	253705	Hose, Radiator
3907130	X-672-7	Clamp
3907131	253708	Box, Junction
3907132	253709	Panel, Junction Box
3907133	253710	Plate, Inner

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3907134	253711	Cover, Junction Box
3907136	BJ-253000	Drawing Assembly
3907137	A-257302	Alternator Assembly
3907138	257166	Stator Assembly
3907139	244613	Mount, Vibro
3907140	253713	Fan, Blower
3907141	255393	Fan
3907142	252714	Shroud, Radiator
3907143	255392	Cover, Radiator
3907144	BK-253000	Drawing Assembly
3907145	253716	Guard, Fan Top
3907146	253717	Guard, Fan R.H.
3907147	253718	Guard, Fan L.H.
3907148	253719	Support, Radiator L.H.
3907149	253720	Support, Radiator R.H.
3907150	A-255362	Radiator Assembly
3907862	253758	Support, Flywheel Housing
3907866	253723	Plug, Plastic
3907867	255402	Skid
3907868	286020	Damper, Vibro
3907869	286019	Damper, Vibro
3907870	255400	Vibro Damper
3907872	253727	Spacer
3907873	280133	Cable
3907874	X-545-7	Cable, Battery
3907875	X-545-24	Cable, Battery
3907876	253731	Roof
3907877	255427	Door
3907878	255425	Shroud
3907879	None	Installation Diagram of Housing
3907880	253734	Nameplate
3907881	253735	Nameplate
3907882	253739	Pipe, Exhaust
3907883	X-797-18	Hose, Flexible Exhaust
3907884	253740	Connector
3907885	253741	Connector
3907886	X-426-14	Clamp, Hose
3907887	BE-253000	Sheet 2 Installation Drawing
3907888	BF-253000	Sheet 2 Installation Drawing
3907892	253743	Switch, Temp.
3907893	253744	Cap, Radiator
3907894	X-25-108	Washer
3907895	253745	Nameplate
3907896	253747	Spacer
3907897	253748	Spacer
3907898	253749	Shroud
3907900	253751	Harness
3907901	X-400-37	Spacer
3907902	287945	Thermo Compound

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3907903	253756	Crossmember
3907904	253757	Skid
3907905	253759	Crossmember
3907907	253764	Roof
3907908	253765	Roof
3907911	253768	Rail
3907912	253769	Rail
3907913	253771	Door, Housing
3907914	BL-253000	Assem. Dwg.
3907915	255391	Shroud
3907916	253773	Adapter, Exhaust
3907917	253775	Crossmember
3907918	253776	Support, Engine
3907919	253777	Support, Engine
3907920	BM-253000	Drawing Assem.
3907921	253779	Bracket, Panel
3907922	253780	Plate, Cover
3907923	253792	Box, Junction
3907924	A-253812	Radiator Assembly
3907925	253794	Cover, Junction Box
3907926	253795	Lead Assembly
3907927	253797	Hose, Molded
3907928	253798	Lead Assembly
3907929	253799	Lead Assembly
3907930	253800	Bracket, Air Cleaner
3907931	253807	Plate, Inner
3907932	253808	Panel, Junction Box
3907933	253813	Shroud, Fan
3907934	253819	Panel, Housing
3907935	253820	Panel, Housing
3907936	X-386-48	Line, Fuel
3907937	X-380-1	Connector, Hose
3907938	X-386-70	Line, Fuel
3907939	253825	Fan, Sucker
3907940	253826	Spacer, Fan
3907941	253827	Yoke, End
3907942	253828	Bolt, Eye
3907943	253829	Bar, Lifting
3907944	253830	Bar, Lifting
3909705	253831	Pin, Locking
3909706	253832	Rod, Lifting
3909707	CA-253000	Drawing Assembly
3909708	None	Drawing, Dimension
3909709	253839	Support, Radiator
3909710	253840	Bracket, Radiator
3909711	253841	Bracket, Radiator
3909712	253842	Bracket, Radiator
3909713	253843	Bracket, Radiator
3909714	253844	Bracket, Radiator Guard

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3909715	253845	Bracket, Radiator Guard
3909716	253846	Guard, Fan
3909717	253847	Guard, Fan
3909718	253848	Guard, Fan
3909719	253849	Crossmember
3909720	253850	Crossmember
3909723	CB-253000	Drawing, Assembly
3909724	CC-253000	Drawing, Assembly
3909725	CD-253000	Drawing, Assembly
3909726	287962	Lamp, Test Switch
3909727	241737	Relay
3909728	253858	Stud
3909729	A-253860	Diode Assembly
3909730	253861	Shroud, Rod
3909731	253862	Guard, Fan
3909732	253863	Guard, Fan
3909733	253864	Guard, Fan
3909734	255584	Support, Radiator
3909735	255585	Support, Radiator
3909736	253867	Fan
3909737	253870	Fan, Sucker
3909739	253872	Spacer, Fan
3909740	None	Diagram, Installed
3909741	253874	Hose, Radiator
3909742	253875	Tube, Steel
3909743	253873	Hose, Radiator
3909744	253877	Switch, Toggle
3909745	CE-253000	Drawing Assembly
3909748	A-253859	Radiator
3909749	255582	Hose
3909750	255583	Hose
3909752	253902	Support, Radiator
3909753	253903	Support, Radiator
3909754	253904	Hose, Radiator
3909755	253905	Hose, Radiator
3909756	253906	Shroud, Radiator
3909757	253907	Support, Engine
3909758	253908	Support, Engine
3909759	253909	Bracket, Radiator Support
3909760	253910	Bracket, Radiator Support
3909761	253911	Bracket, Radiator Support
3909762	253912	Shroud, Fan
3909763	253913	Bracket, Shroud Support
3909764	253914	Bracket, Shroud Support
3909765	253915	Guard, Fan (R.S.)
3909766	253916	Guard, Fan (L.S.)
3909767	253917	Guard, Fan (Top)
3909768	253919	Rail, Side (R.H.)
3909769	253920	Rail, Side (L.H.)

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3909770	253921	Roof, Housing
3909771	253922	Panel, Rear
3909772	253923	Door, Housing
3909773	CG-253000	Drawing, Assembly
3909774	253932	Tube, Air Intake
3909775	CF-253000	Drawing, Assembly
3909776	253936	Panel, Instrument
3909778	253937	Clip
3909779	253938	Shroud
3909780	253939	Cover, Battery
3909781	253950	Bracket, Mounting
3909782	253951	Guard, Radiator Core
3909783	253952	Guard, Radiator Core
3909784	CH-253000	Drawing, Assembly
3909785	253955	Rack, Battery
3909786	CJ-253000	Drawing, Assembly
3909787	253957	Cover, Radiator
3909788	253959	Rack, Battery
3909789	253962	Support, Rear
3909790	255523	Harness, Wiring
3909791	C-253680	Panel Assembly
3909792	C-253681	Panel Assembly
3909793	250719	Breaker, Circuit
3909794	A-253196	Charger Assembly
3909795	A-257262	Alternator Assembly
3909796	253966	Harness, Wiring
3909797	A-253967	Panel Assembly
3909798	B-253384	Panel Assembly
3909799	A-253971	Contact Assembly
3909800	253972	Diagram, Wiring
3909801	253975	Bracket, Panel Mounting
3909802	CK-253000	Drawing, Assembly
3909803	259391	Relay
3909804	A-253974	Control Assembly
3909805	269955	Harness, Wiring
3909806	253979	Bracket, Air Cleaner
3909807	253980	Pipe, Stack
3909809	253982	Pipe, Stack
3909810	253983	Pipe, Stack
3909811	253984	Mount, Vibration
3909812	253989	Adapter, Exhaust
3909813	253990	Cap, Rain
3909814	253993	Silencer, Industrial
3909815	253995	Take-off, Power
3909816	254003	Bracket, Throttle Cable
3909817	254004	Cleaner, Air
3909818	254005	Tube
3909819	254006	Cap, Rain
3909820	254007	Elbow, Rubber

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3909821	254008	Cleaner, Air
3909822	254009	Tube
3909823	254010	Cap, Rain
3909824	254011	Elbow, Rubber
3909825	254012	Band, Mounting
3909826	254013	Clamp
3909827	254014	Tube, Crossover
3909828	CL-253000	Drawing Assembly
3909829	254018	Lever, Throttle
3909830	CM-253000	Drawing Assembly
3909831	CN-253000	Drawing Assembly
3909832	CP-253000	Drawing Assembly
3909833	254021	Elbow, Rubber
3909834	254022	Fan, Sucker
3909835	254023	Fan, Blower
3909836	A-254024	Radiator, Assembly
3909837	X-400-146	Spacer
3909838	None	Drawing
3909839	254025	Rail, Side
3909840	254026	Rail, Side
3909841	254028	Harness, Wiring
3909842	A-253998	Panel Assembly
3909843	A-253999	Panel Assembly
3909844	BB-253000	Drawing Assembly
3909845	CR-253000	Drawing Assembly
3909846	254029	Roof, Housing
3909847	254030	Roof, Housing
3909848	254031	Shroud, Housing
3909849	254032	Door, Housing
3909850	254033	Rail, Side Housing
3909851	254034	Rail, Side Housing
3909852	254035	Bracket, Rear Mounting
3909853	254039	Clamp, Battery Cable
3909854	X-545-56	Cable, Battery
3909855	X-545-57	Cable, Battery
3909856	255600	Switch, Float
3909857	254041	Relay
3909858	254042	Cover, Dust
3909859	254043	Tank, Fuel
3909860	255723	Roof
3909861	254045	Shroud, Rear
3909862	A-257301	Alternator Assembly
3909863	254046	Shroud, Rear
3909864	254047	Cover, Radiator
3909865	254048	Support, Engine
3909866	254049	Support, Engine
3909870	X-270-1	Rheostat
3909871	X-467-3	Rheostat
3909872	283869	Nameplate

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3909873	254050	Harness, Wiring
3909874	254051	Harness, Wiring
3909875	254053	Box, Junction
3909876	254054	Cover, Side
3909877	254055	Bracket, Circuit Breaker
3909878	254056	Bracket, Housing
3909879	CS-253000	Drawing, Assembly
3909880	254061	Fan, Sucker
3909881	254062	Fan, Blower
3909882	254063	Spacer, Fan
3909883	254064	Spacer, Fan
3911010	257597	Stator Assembly
3911011	A-257594	Rotor Assembly
3911012	X-786-3	Breaker, Circuit
3911013	X-786-5	Breaker, Circuit
3911014	254065	Bracket, Mounting
3911015	254066	Hose, Hump Reducer
3911016	254067	Roof
3911017	254069	Cleaner, Air
3911018	254070	Cleaner, Air
3911019	254071	Fuse
3911020	292821	Holder, Fuse
3911021	254073	Harness, Wiring
3911022	X-786-34	Breaker, Circuit
3911023	254077	Bracket, Air Cleaner
3911024	254078	Tube
3911025	254079	Panel, Rear
3911026	254082	Bracket, Relay
3911027	254083	Bracket, Rear Housing
3911028	254084	Bracket, Rear Housing
3911029	254085	Gasket
3911030	254086	Bracket, Lower
3911031	254087	Clamp, Hose
3911032	257618	Rotor Assembly
3911033	257622	Rotor Assembly
3911034	254088	Connector
3911035	254089	Transformer, Current
3911036	254090	Transformer, Current
3911037	254091	Transformer, Current
3911038	CT-253000	Drawing, Assembly
3911039	Open	
3911040	254092	Bracket, Mounting
3911041	254098	Bracket, Air Cleaner
3911042	C-253276	Board Assembly, Circuit
3911043	CX-253000	Drawing, Assembly
3911044	254100	Hose, Hump
3911045	A-255607	Radiator Assembly
3911046	A-255604	Radiator Assembly
3911047	A-255608	Radiator Assembly

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3911052	283919	Transformer
3911053	B-292302	Board Assembly, Circuit
3911054	258381	Breaker, Circuit
3911055	X-786-27	Breaker, Circuit
3911056	X-786-30	Breaker, Circuit
3911057	X-786-15	Breaker, Circuit
3911058	X-786-18	Breaker, Circuit
3911059	X-786-33	Breaker, Circuit
3911060	X-786-35	Breaker, Circuit
3911061	253964	Kit, Start Switch
3911062	253696	Nameplate
3911063	B-282778	Board Assembly, Circuit
3911064	257538	Stator, Wound
3911065	254118	Harness, Wiring
3911066	254120	Harness, Wiring
3911067	254124	Drawing, Assembly
3911068	CU-253000	Drawing, Assembly
3911069	CZ-253000	Drawing, Assembly
3911070	254136	Fan, Blower
3911071	254137	Fan, Sucker
3911072	254138	Fan, Blower
3911073	254139	Fan, Sucker
3911074	254141	Fan, Blower
3911075	254142	Fan, Blower
3911076	254143	Kit, Fan-Service
3911077	254144	Shroud, Fan
3911078	254146	Fan, Sucker
3911079	254149	Fan, Sucker
3911080	254154	Bracket, Spring
3911081	DA-253000	Drawing, Assembly
3911082	DB-253000	Drawing, Assembly
3911083	233442	Solenoid
3911084	A-254159	Radiator Assembly
3911085	254160	Bracket, Radiator
3911086	254161	Bracket, Radiator
3911087	254162	Guard, Fan
3911088	254163	Guard, Fan
3911089	254164	Guard, Fan
3911090	X-25-96	Washer
3911091	254166	Support, Engine
3911092	254167	Support, Engine
3911093	254168	Support, Radiator
3911094	254169	Support, Radiator
3911095	254170	Diagram, Wiring
3911096	254171	Diagram, Wiring
3911097	254172	Diagram, Interconnection
3911098	DC-253000	Drawing, Assembly
3911099	DD-253000	Drawing, Assembly
3911100	254177	Shroud, Fan

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3911101	254178	Mount, Vibration
3911102	X-352-63	Stud
3911103	254180	Guard, Fan
3911104	254181	Guard, Fan
3911105	254182	Guard, Fan
3911106	254185	Mount, Rubber
3911107	254186	Bracket, Radiator
3911108	254187	Bracket, Radiator
3911109	NONE	Diagram, Installation 6CT
3911110	X-25-121	Washer
3911111	255828	Diagram, Wiring
3911112	254165	Spacer, Tan
3911113	254189	Fan, Sucker
3911114	254190	Fan, Blower
3911115	254132	Panel, Rear Meter Box
3911116	DE-253000	Drawing, Assembly
3911117	DF-253000	Drawing, Assembly
3911118	DG-253000	Drawing, Assembly
3911119	A-257695	Alternator Assembly
3911120	A-257693	Alternator Assembly
3911121	A-257749	Rotor Assembly
3911122	A-257747	Rotor Assembly
3911123	257767	Stator Assembly
3911124	257768	Stator Assembly
3911125	A-257708	Alternator Assembly
3911126	A-257647	Alternator Assembly
3911127	A-257648	Alternator Assembly
3911128	X-352-63	Stud Assembly
3911129	A-257751	Rotor Assembly
3911130	A-257670	Rotor Assembly
3911131	A-257671	Rotor Assembly
3911132	A-257769	Stator Assembly
3911133	257687	Stator Assembly
3911134	257688	Stator Assembly
3911135	254125	Diagram, Wiring
3911136	A-257649	Alternator Assembly
3911137	A-257672	Rotor Assembly
3911138	257689	Stator Assembly
3911139	NONE	4B/4BT/4BTA P.U. AD.
3911140	NONE	6B/6BT/P.U. AD.
3911141	254198	Strip, Marker
3911142	254197	Strip, Marker
3911143	A-254199	Charger Assembly, Battery
3911144	A-255929	Box Assembly, Meter
3911145	255930	Box, Meter
3911146	DK-253000	Drawing, Assembly
3911147	254204	Tachometer
3911148	254208	Bracket, Governor Mtg.
3911149	254209	Lever, Actuator

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3911150	255746	Actuator, Governor
3911151	255750	Pickup, Magnetic
3911152	255932	Box, Control
3911153	254210	Cable, Pickup
3911154	254211	Cable, Power
3911155	254212	Cable, Actuator
3911156	254675	Kit, Angle Bolt
3911157	254676	Kit, Angle Bolt
3911158	254216	Pin, Clevis
3911159	254217	Lever, Shut-off
3911160	255934	Box, Meter
3911161	254127	Strip, Market
3911162	254130	Harness, Wiring
3911163	254229	Ball Joint
3911164	254238	Panel, Front
3911165	254231	Harness, Wiring
3911166	254232	Harness, Wiring
3911167	254234	Harness, Wiring
3911168	254233	Harness, Wiring
3911169	A-254239	Panel Assembly
3911170	254133	Panel, Silkscreen
3911171	SW70-1608-5700	Lead
3911172	SWOP-1007-15216	Lead
3911173	SWOP-1808-5715	Lead
3911174	254249	Shroud, Front
3911175	254250	Shroud, Rear
3911176	254251	Roof
3911177	SW70-1636-9412	Lead
3911178	A-254128	Panel Assembly
3911179	292836	Harness, Cable
3911180	254243	Harness, Wiring
3911181	254252	Roof
3911182	DL-235000	Drawing, Assembly
3911183	254247	Frame, Air Duct
3911184	254244	Heater, Block
3912261	254245	Heater, Block
3912262	254246	Heater, Block
3912263	255858	Resister Assembly
3912264	254248	Skid
3912265	X-545-58	Cable, Battery
3912266	X-545-51	Cable, Battery
3912267	254253	Roof
3912268	254254	Roof
3912269	254255	Panel, Filler
3912270	254256	Panel, Filler
3912271	254257	Door
3912272	254258	Door
3912273	X-786-22	Breaker, Circuit
3912274	254262	Support

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3912275	254263	Bracket, Front
3912276	X-786-7	Breaker, Circuit
3912277	254264	Shroud, Rear
3912278	254265	Bracket, Housing
3912279	254126	Panel, Front
3912280	254129	Panel, Silkscreen
3912281	235496	Spring
3912282	254179	Plate, Adapter
3912283	A-254272	Radiator Assem.
3912284	262309	Diagram, Wiring
3912285	A-254275	Radiator Assembly
3912286	254276	Support, Radiator
3912287	254277	Bracket, Radiator
3912288	254278	Bracket, Radiator
3912289	254279	Guard, Fan Top
3912290	254280	Guard, Fan L.H.
3912291	254281	Guard, Fan R.H.
3912292	254282	Tube, Radiator
3912293	254283	Tube, Radiator
3912294	254284	Shroud, Fan
3912295	254285	Crossmember
3912296	254286	Plate
3912297	254287	Housing Rear Panel
3912298	254288	Door, Housing
3912299	254289	Latch
3912300	254290	Roof, Housing
3912301	254291	Roof, Housing
3912302	254292	Panel, Front
3912303	253293	Panel, Filler
3912304	254294	Panel, Filler
3912305	254295	Support, Housing
3912306	254296	Support, Housing
3912307	NONE	Drawing, Installation
3912308	LN-0124-3601	Lead
3912309	254297	Decal
3912310	254298	Support, Engine (LH)
3912311	254299	Support, Engine (R.H.)
3912312	DM-253000	Drawing, Assembly
3912313	DN-253000	Drawing, Assembly
3912314	X-6069-6	Screw, H.C. M16X2X100
3912315	X-6211-2	Nut, Lock M12 x 1.75
3912316	X-6211-3	Nut, Lock M16X1.5
3912317	X-6052-10	Screw, H.C. M12X1.75X40
3912318	DP-253000	Drawing, Assembly
3912319	A-0254308	Panel Assembly
3912320	NONE	
3912321	DR-253000	Drawing, Assembly
3912322	A-255769	Radiator, Assembly
3912323	DS-253000	Drawing, Assembly

<u>CUMMINS NO.</u>	<u>MFG. NO.</u>	<u>DESCRIPTION</u>
3912324	DT-253000	Drawing, Assembly
3912325	254323	Panel, Housing Rear
3912326	254327	Bracket, Throttle Cable
3912327	254328	Hose, Radiator
3912328	254329	Cable, Throttle
3912329	254330	Cable, Throttle
3912330	254333	Mount, Rubber
3912331	NONE	
3912332	254338	Fan, Blower
3912333	254339	Fan, Sucker
3912334	X-786-32	Breaker, Circuit
3912335	254131	Fan, Blower
3912336	254334	Fan, Blower
3912337	254340	Bracket, Cable
3912338	254341	Cable, Throttle
3912339	254342	Bracket, Air Cleaner Support
3912340	254344	Clamp, Hose
3912341	287812	Toggle, Switch

CROSS REFERENCE MFG. NO. TO CUMMINS

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
None	3905585	Cummins Reference Drawing
None	3905980	Cummins Installation Drawing
None	3905981	Cummins Installation Drawing
None	3906008	Installation Diagram
None	3907084	Cummins Installation Diagram
None	3907085	Cummins Installation Diagram
None	3907879	Installation Diagram of Hsg.
None	3909708	Drawing, Dimension
None	3909740	Diagram, Installed
None	3909838	Drawing
None	3911109	Diagram, Installation 6CT
None	3911139	4B/4BT/4BTA P.U. AD.
None	3911140	6B/6BT/P.U. AD.
None	3912307	Drawing, Installation
X-5-1	S-118-A	Screw, H.C. 1/4-20 x 5/8
X-5-17	3905544	Screw, H.C. 1/4-20x3/8
X-6-1	S-171-A	Screw, H.C. 5/16-18 x 1/2
X-6-7	S-102	Screw, H.C. 5/16-18 x 1
X-6-11	S-107	Screw, H.C. 5/16-18 x 3/4
X-7-8	S-117	Screw, H.C. 3/8-16 x 3/4
X-7-31	S-104	Screw, H.C. 3/8-16 x 2 1/4
X-18-1	S-636	Washer, Lock #6
X-18-2	S-692	Washer, Lock #8
X-19-1	S-607	Washer, Lock #10
X-20-1	181466	Washer, Lock 1/4
X-21-1	103844	Washer, Lock 5/16
X-22-1	S-604	Washer, Lock 3/8
X-22-2	VOID - Use X-23-1	
X-22-3	VOID - Use X-22-1	
X-22-12	146157	Washer, Int./Ext. Tooth 1/4
X-22-14	S-648	Washer, Int./Ext. Tooth 3/8
X-22-26	S-608	Washer, Int./Ext. Tooth 1/2
X-23-1	S-610	Washer, Lock 7/16
X-24-6	S-608	Washer, Lock 1/2
X-25-30	S-624	Washer, Plain 1/2 (Not Std.)
X-25-37	146162	Washer, Plain 3/8
X-25-44	146160	Washer, Plain 5/16 (Not Std.)
X-25-48	70715	Washer, Plain #8
X-25-49	134557	Washer, Plain #10 (Not Std.)
X-25-52	146157	Washer, Plain 1/4 (Not Std.)
X-25-53	146157	Washer, Plain 1/4
X-25-68	146157	Washer, Plain 1/4 (Not Std.)
X-25-85	69208	Washer, Plain 5/16
X-25-93	146172	Washer, Plain 3/8 (Not Std.)
X-25-96	3911090	Washer
X-25-97	S-264	Washer, Plain 1/2 (Not Std.)

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
X-25-108	3907894	Washer, Plain --- (Not Std.)
X-25-121	3911110	Washer
X-49-2	3905551	Screw, R.H.M. 6-32x3/8
X-49-35	145249	Screw, R.M.H. #4-40 x 7/8
X-50-6	132633	Screw, R.M.H. #10-32 x 3/4
X-50-8	134377	Screw, R.M.H. #10-24 x 5/8
X-50-46	3905554	Screw, R.H.M. 10-24x4
X-51-9	127007	Screw, R.M.H. #8-32 x 5/8
X-51-12	101996	Screw, R.M.H. #8-32 x 3/8
X-51-15	128021	Screw, R.M.H. #8-32 x 1/2
X-55-2	70214	Screw, Socket Hd. 1/4-20
X-67-5	S-2286	Screw, Drive
X-67-19	S-2267	Screw, Drive
X-70-2	103266	Nut, Hex #10-24
X-70-3	S-257	Nut, Hex #10-32
X-72-4	S-215-A	Nut, Hex #8-32
X-81-1	S-224	Nut, Hex 1/4-20
X-81-2	S-270	Nut, Hex 1/4-28
X-82-2	S-221	Nut, Hex 5/16-18
X-83-2	S-223	Nut, Hex 3/8-16
X-97-3	110665	Screw, H.C. #10-24 x 3/8
X-101-4	136724	Nut, Hex Lock 5/16-24
X-101-8	70398	Nut, Hex Lock 1/4-20
X-117-5	S-1326	Screw, H.C. #10-24 x 5/8
LN-0124-3601	3912308	Lead
X-211-6	3904902	Elbow, Street
X-216-24	3905237	Coupling
X-217-6	3905236	Pipe
LN-0224-3601	3904923	Lead
X-256-3	3905288	Valve, Drain
X-270-1	3909870	Rheostat
X-283-7	3904909	Terminal
X-284-23	3905535	Grommet
X-285-1	3903974	Terminal, Insulug Space
X-301-23	3905508	Plug, Button
X-339-8	3905295	Clip, Wire
X-352-42	3905255	Stud 3/8-16 x 2 1/8
X-352-51	3905255	Stud
X-352-53	3905229	Stud
X-352-54	3905978	Stud
X-352-63	3911128	Stud Assembly
X-352-63	3911102	Stud
X-377-11	3905289	Connector, Cable
X-380-1	3907937	Connector, Hose
X-380-4	3904900	Connector
X-386-36	3904899	Hose
X-386-48	3907936	Line, Fuel
X-386-70	3907938	Line, Fuel
X-400-37	3907901	Spacer

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
X-400-132	3905526	Spacer
X-400-146	3909837	Spacer
X-426-1	3905259	Clamp, Hose
X-426-2	3905258	Clamp, Hose
X-426-5	3905568	Clamp, Hose
X-426-6	3905254	Clamp, Hose
X-426-9	3904901	Clamp, Hose
X-426-13	3905984	Clamp, Hose
X-426-14	3907886	Clamp, Hose
X-467-3	3909871	Rheostat
X-468-1	3905231	Tie, Cable
X-507-1	3904914	Hose, Radiator
X-507-3	3904918	Hose, Radiator
X-522-47	3904915	Tubing, Steel
X-545-7	3907874	Cable, Battery
X-545-24	3907875	Cable, Battery
X-545-42	3905260	Cable, Battery
X-545-44	3905261	Cable, Battery
X-545-45	3905262	Cable, Battery
X-545-46	3905263	Cable, Battery
X-545-51	3912266	Cable, Battery
X-545-56	3909854	Cable, Battery
X-545-57	3909855	Cable, Battery
X-545-58	3912265	Cable, Battery
X-593-3	3905296	Grommet
LN-0624-3615	3904924	Lead
X-641-5	3905569	Hose, Air Intake
X-672-7	3907130	Clamp
X-672-14	3904913	Clamp
X-758-2	3905521	Bearing, Ball
X-758-6	3905957	Bearing, Ball
X-786-3	3911012	Breaker, Circuit
X-786-5	3911013	Breaker, Circuit
X-786-7	3912276	Breaker, Circuit
X-786-15	3911057	Breaker, Circuit
X-786-16	3905552	Breaker, Circuit
X-786-18	3911058	Breaker, Circuit
X-786-22	3912273	Breaker, Circuit
X-786-27	3911055	Breaker, Circuit
X-786-28	3904925	Breaker, Circuit
X-786-29	3904922	Breaker, Circuit
X-786-30	3911056	Breaker, Circuit
X-786-31	3905550	Breaker, Circuit
X-786-32	3912334	Breaker, Circuit
X-786-33	3911059	Breaker, Circuit
X-786-34	3911022	Breaker, Circuit
X-786-35	3911060	Breaker, Circuit
X-786-38	3905553	Breaker, Circuit
X-786-39	3904920	Breaker, Circuit

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
X-786-40	3904921	Breaker, Circuit
X-794-1	S-2267	Screw, Drill 1/4
X-794-2	3905545	Screw, Drill
X-797-15	3904897	Hose, Flexible Exhaust
X-797-18	3907883	Hose, Flexible Exhaust
SWOP-1007-15216	3911172	Lead
SW70-1608-5700	3911171	Lead
LN-1620-2215	3905235	Lead
SW70-1636-9412	3911177	Lead
LN-1648-2214	3905234	Lead
SW15-1803-1412	3904907	Lead
LN-1804-1414	3904933	Lead
SWNC-1804-1514	3905579	Lead
SW15-1804-152152	3904911	Lead
SW-1806-15214	3904912	Lead
SWOP-1808-5715	3911173	Lead
SWON-1810-1412	3904906	Lead
LN-1828-2204	3905233	Lead
X-6033-2	3904931	Grommet
X-6033-3	3905297	Grommet
X-6040-2	3904937	Channel "U"
X-6048-2	3907127	Jumper
X-6049-1	3902144	Screw, H.C. M6 x 1
X-6049-2	3900815	Screw, H.C. M6 x 1
X-6049-3	3900223	Screw, H.C. M6 x 1
X-6050-1	3902114	Screw, H.C. M8 x 1.25
X-6050-3	3025802	Screw, H.C. M8 x 1.25
X-6050-4	3335041	Screw, H.C. M8 x 1.25
X-6050-5	3901447	Screw, H.C. M8 x 1.25
X-6050-6	3905556	Screw, H.C. M8x1.25 100MM
X-6050-7	3900633	Screw, H.C. M8 x 1.25
X-6050-8	3900225	Screw, H.C. M8 x 1.25
X-6051-2	3905546	Screw, H.C. M10x1.50 30MM
X-6051-1	3034836	Screw, H.C. M10 x 1.50
X-6051-2	3905546	Screw, H.C. M10 x 1.50
X-6051-3	3900623	Screw, H.C. M10 x 1.50
X-6051-5	3900624	Screw, H.C. M10 x 1.50
X-6051-6	3900469	Screw, H.C. M10 x 1.50
X-6051-7	3907789	Screw, H.C. M10 x 1.50
X-6052-1	3905547	Screw, H.C. M12x1.75 25MM
X-6052-2	3901249	Screw, H.C. M10 x 1.75
X-6052-3	3901408	Screw, H.C. M10 x 1.75
X-6052-5	3900618	Screw, H.C. M10 x 1.75
X-6052-10	3912317	Screw, H.C. M12X1.75X40
X-6053-1	3905548	Nut, Hex. M6x1
X-6053-2	3009219	Nut, Hex M8 - 1.25
X-6053-3	3009503	Nut, Hex M10 - 1.50
X-6053-4	3902692	Nut, Hex M12 - 1.75
X-6069-6	3912314	Screw, H.C. M16X2X100

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
X-6211-2	3912315	Nut, Lock M12 x 1.75
X-6211-3	3912316	Nut, Lock M16X1.5
153659	3907128	Bushing, Reducer
223022	3905536	Damper, Vibro
223096	3907126	Terminal Strip
223316	3904615	Fuse
233442	3911083	Solenoid
235495	3905993	Spring, Governor
235496	3912281	Spring
237277	3904896	Stud
238426	3905304	Holder, Fuse
238451	3905557	Nameplate
238736	3904621	Meter, Hour
240976	3905509	Switch, Temperature
240978	3905299	Switch, Temperature
241308	3905300	Switch, Hi-Temp. Shutoff
241481	3904797	Switch, Hi-Temp. Shutoff
241600	3904611	Relay
241623	3905507	Sensor, Speed
241736	3907124	Relay, Alarm Horn
241737	3909727	Relay
241739	3907114	Diode
243273	3904800	Fuse--5 Amp
244210	3905252	Damper, Vibration
244613	3907139	Mount, Vibro
246115	3907125	Terminal Strip
248362	3904801	Relay
250081	3905251	Clamp, Hose
250512	3904622	Switch, Thermal
250719	3909793	Breaker, Circuit
AA-253000	3904871	Governor, Isochronous
AC-253000	3904873	Battery Rack
AE-253000	3905518	Drawing, Assembly
AF-253000	3905529	Drawing, Assembly
AG-253000	3905530	Drawing, Assembly
AH-253000	3905533	Drawing, Assembly
AJ-253000	3905541	Drawing, Assembly
AK-253000	3905542	Drawing, Assembly
AL-253000	3905582	Drawing, Assembly
AM-253000	3905583	Drawing, Assembly
AN-253000	3905584	Drawing, Assembly
AP-253000	3905946	Drawing, Assembly
AR-253000	3905948	Drawing, Assembly
AT-253000	3905964	Drawing, Assembly
AU-253000	3905969	Drawing, Assembly
AV-253000	3905970	Drawing, Assembly
AW-253000	3905971	Drawing, Assembly
AX-253000	3905972	Drawing, Assembly
AY-253000	3905983	Drawing, Assembly

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
AZ-253000	3905996	Drawing, Assembly
B-253000	3904809	Meter Box w/Ammeter
BB-253000	3909844	Drawing, Assembly
BC-253000	3907089	Drawing, Assembly
BD-253000	3907090	Drawing, Assembly
BE-253000	3907098	Drawing, Assembly
BE-253000	3907887	Sheet 2 Installation Drawing
BF-253000	3907099	Drawing, Assembly
BF-253000	3907888	Sheet 2 Installation Drawing
BG-253000	3907109	Drawing, Assembly
BH-253000	3907110	Drawing, Assembly
BJ-253000	3907136	Drawing, Assembly
BK-253000	3907144	Drawing, Assembly
BL-253000	3907914	Drawing, Assembly
BM-253000	3907920	Drawing, Assembly
C-253000	3905292	Drawing, Assembly
CA-253000	3909707	Drawing, Assembly
CB-253000	3909723	Drawing, Assembly
CC-253000	3909724	Drawing, Assembly
CD-253000	3909725	Drawing, Assembly
CE-253000	3909745	Drawing, Assembly
CF-253000	3909775	Drawing, Assembly
CG-253000	3909773	Drawing, Assembly
CH-253000	3909784	Drawing, Assembly
CJ-253000	3909786	Drawing, Assembly
CK-253000	3909802	Drawing, Assembly
CL-253000	3909828	Drawing, Assembly
CM-253000	3909830	Drawing, Assembly
CN-253000	3909831	Drawing, Assembly
CP-253000	3909832	Drawing, Assembly
CR-253000	3909845	Drawing, Assembly
CS-253000	3909879	Drawing, Assembly
CT-253000	3911038	Drawing, Assembly
CU-253000	3911068	Drawing, Assembly
CX-253000	3911043	Drawing, Assembly
CZ-253000	3911069	Drawing, Assembly
D-253000	3904811	NFPA CONT.
DA-253000	3911081	Drawing, Assembly
DB-253000	3911082	Drawing, Assembly
DC-253000	3911098	Drawing, Assembly
DD-253000	3911099	Drawing, Assembly
DE-253000	3911116	Drawing, Assembly
DF-253000	3911117	Drawing, Assembly
DG-253000	3911118	Drawing, Assembly
DK-253000	3911146	Drawing, Assembly
DL-253000	3911182	Drawing, Assembly
DM-253000	3912312	Drawing, Assembly
DN-253000	3912313	Drawing, Assembly
DP-253000	3912318	Drawing, Assembly

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
DR-253000	3912321	Drawing, Assembly
DS-253000	3912323	Drawing, Assembly
DT-253000	3912324	Drawing, Assembly
E-253000	3905293	Drawing, Assembly
F-253000	3904813	P4BT3.9 Power Unit
G-253000	3904814	Controllers, Generator Set
J-253000	3904816	Voltage Regulator
K-253000	3904817	Heater, Oil Pan
L-253000	3904818	Heater, Engine Water
M-253000	3905282	Drawing, Assembly
N-253000	3905283	Drawing, Assembly
P-253000	3904821	Flex. Exhaust--Open Gen. Set
R-253000	3904822	Silencer, Hsd. Generator Set
S-253000	3904823	Silencer, Hsd. Power Unit
T-253000	3904824	Pipe, Stack
U-253000	3904825	P.T.O.s
V-253000	3905284	Drawing, Assembly
W-253000	3905285	Drawing, Assembly
X-253000	3904868	Lift Hook--Generator Set
Y-253000	3904869	Heater, Generator
Z-253000	3904870	Tank, Fuel
253057	3903673	Support, Engine--Rear
253060	3903676	Shroud, Fan
253061	3903677	Roof, Housing
253063	3903679	Bracket, Mounting
253064	3903680	Support, Rear Housing
253065	3903681	Shroud, Rear Housing
253066	3903682	Roof
253067	3903683	Shroud, Radiator
253068	3903684	Skid
253070	3903885	Rail, Skid
253071	3903685	Cover, Radiator
253072	3903686	Door, Housing
253075	3903688	Support, Engine Rear
253080	3903693	Skid
253082	3903695	Fan
253084	3903697	Panel, Rear Meter Box
253085	3903698	Cover, Meter
253089	3903700	Panel
253091	3903702	Plate
253092	3903703	Latch, Flush
253093	3903818	Spacer, Fan
253094	3903705	Fan
253096	3903707	Door, Housing
A-253104	3903875	Cleaner Assembly, Air
A-253105	3903876	Cleaner Assembly, Air
A-253106	3903877	Cleaner Assembly, Air
253107	3903878	Element, Air Cleaner
253108	3903879	Element, Air Cleaner

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
253136	3903907	Mount, Air Cleaner
253164	3903975	Connector
253172	3903983	Hose, Radiator
253187	3904005	Silencer (Residential)
253188	3904006	Silencer (Critical)
253189	3904007	Silencer (Residential)
253190	3904008	Silencer (Critical)
253191	3904009	Cap, Rain
253192	3904010	Pipe, Stack
B-253193	3907112	Charger Assembly Battery
253195	3903891	Decal
A-253196	3909794	Charger Assembly
253197	3903892	Nameplate
253198	3903893	Nameplate
253199	3904013	Bracket, Meter Panel
253201	3904015	Tachometer
253205	3904019	Switch, Ignition Start
253215	3904109	Heater, Oil Pan
253216	3904110	Heater, Engine Water
253219	3904113	Adapter
253224	3904118	Breaker, Circuit
253225	3904119	Breaker, Circuit
253226	3904120	Breaker, Circuit
A-253229	3903901	Engine Assembly
A-253230	3903902	Engine Assembly
A-253232	3903903	Engine Assembly
A-253233	3903908	Engine Assembly
253234	3904121	Spacer, Fan
253236	3904122	Silencer (Critical)
253237	3904123	Silencer (Industrial)
253239	3904124	Silencer (Critical)
253240	3903952	Switch, Rotary
253241	3903953	Lens, Cliplite
253242	3903954	Lens, Cliplite
253250	3904125	Roof, Housing
253251	3904126	Roof, Housing
253258	3903949	Decal
253259	3903950	Tag, Instruction
253260	3904127	Support, Junction Box
253261	3904128	Cover, Side
253262	3904003	Nameplate
253263	3904004	Nameplate
253266	3903251	Gasket
253267	3904131	Roof
253271	3905431	Decal
253272	3904135	Harness, Wiring
A-253273	3904136	Box Assembly, Meter
253274	3904137	Transformer
C-253276	3911042	Board Assembly, Circuit

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
253278	3904139	Heater, Frost Plug
253307	3904140	Stud Holddown
253308	3904141	Adapter, Exhaust
253309	3904142	Pipe, Exhaust
253310	3904143	Bracket, Muffler
253315	3904147	Tank, Fuel
253317	3903956	Bracket, Tank Mounting
253318	3903957	Strap, Tank
B-253319	3906011	Panel Assembly
253320	3903959	Box, Meter (Screened)
253321	3903960	Cable, Throttle
253322	3903961	Switch, Hi-Temp Cutoff
253323	3903962	Switch, Pressure
253324	3903963	Connector, Ball Joint
253326	3907121	Panel
253328	3903972	Harness, Wiring
253329	3903973	Voltmeter, Battery
253330	3903974	Strip, Terminal
253331	3903979	Harness, Wiring
253332	3903980	Lamp
253335	3903981	Bracket, Relay
253338	3903985	Bracket, Throttle Cable Mounting
253339	3903986	Bolt, "U"
253341	3904932	Ammeter
253342	3904790	Knob, Pointer
253348	3903997	Button, Plug
253349	3903998	Harness, Wiring
A-253351	3903999	Panel Assembly, Annunciator
253355	3904000	Line, Suction
253358	3904001	Nameplate
253359	3904002	Nameplate
253362	3904011	Harness, Wiring
253363	3904012	Hose, Molded
253364	3904020	Hook, Lifting
253367	3904023	Pipe, Stack
253368	3904024	Rack, Battery
253369	3904025	Battery
253371	3904026	Spacer, Generator
253372	3904027	Skid
253373	3904108	Latch
A-253377	3904589	Engine Assembly
A-253378	3904590	Engine Assembly
A-253379	3904591	Engine Assembly
A-253380	3904592	Engine Assembly
253381	3904593	Bracket, Air Cleaner
253383	3904595	Panel, Rear
B-253384	3909798	Panel, Assembly
253386	3907123	Alarm Horn
253387	3904597	Bracket, Air Cleaner

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
253388	3904598	Bracket, Air Cleaner
253390	3904600	Panel, Wiring Harness
253398	3904604	Support, Junction Box
253399	3904605	Plug
253400	3904606	Bracket
A-253401	3904607	Panel Assembly
B-253402	3906007	Board Assembly, Circuit
=253409	3904610	Element, Air Filter
253412	3904807	Spring, Throttle
253413	3905267	Diagram, Wiring
253415	3904875	Cover, Controller Box
253417	3904876	Harness, Wiring
253420	3904884	Fan, Suction
253421	3904885	Fan, Pusher
253422	3904886	Bracket, Solenoid
253423	3904887	Bracket, Solenoid
253424	3903964	Stud
253428	3904888	Heater, Engine Water
253430	3904890	Bracket, Actuator
253432	3904891	Power Takeoff 11 1/2" 1 Plate
253433	3904892	Power Takeoff 11 1/2" 2Plate
253436	3904893	Harness, Wire
253437	3904894	Heater, Oil 240 V.
253439	3904895	Knob
253440	3904927	Plate, Mounting
253441	3904928	Strip, Market
A-253442	3904929	Interconnection Assembly
A-253443	3904936	Potentiometer Assembly
253447	3904940	Support, Front Engine
253448	3904941	Support, Front Engine
253449	3904942	Bracket, Housing
253450	3904943	Rail, Side
253451	3904944	Rail, Side
253452	3904945	Support, Radiator
253454	3905226	Pipe, Exhaust
253455	3905227	Controller, Electronic
253462	3905238	Cover, Junction Box
253467	3905239	Nameplate
253469	3905240	Nameplate
253481	3904060	Hose, Air CC.
A-253487	3905269	Control Assembly, Manual
253488	3905270	Strip, Marker
253489	3905271	Harness, Wiring
253492	3905273	Switch, Pushbutton (N.D.)
253493	3905274	Switch, Pushbutton (N.C.)
253495	3905275	Diagram, Wiring
253496	3905276	Diagram, Wiring
253497	3905277	Diagram, Wiring
253500	3905280	Kit, Hardware

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
253501	3905281	Diagram, Wiring
253502	3905286	Transformer, Current 250/5
253503	3905287	Transformer, Current 400/5
253506	3905506	Diagram, Interconnection
253508	3905515	Bracket, Spring
253512	3905517	Diagram, Wiring
253513	3902331	Flywheel
253514	3905531	Harness, Wiring
253515	3905532	Harness, Wiring
253524	3905561	Harness, Wiring
253532	3905567	Decal
253535	3905571	Guard, Fan (Top)
253536	3905572	Guard, Fan (R.H.)
253537	3905573	Guard, Fan (L.H.)
253538	3905574	Support, Radiator
253539	3905575	Support, Radiator
253542	3905581	Diagram, Wiring
A-253545	3905965	Panel Assembly 12 Volt
253547	3905967	Bracket, Mounting
253554	3905968	Bracket, Actuator
253557	3905975	Brace, Radiator
253558	3905976	Support, Engine Front R.H.
253559	3905977	Support, Engine Front L.H.
253565	3905985	Support, Radiator--L.S.
253566	3905986	Support, Radiator--R.S.
253567	3905987	Shroud, Fan
253568	3905988	Guard, Fan--L.S.
253569	3905989	Guard, Fan--R.S.
253570	3905990	Guard, Fan--Top
253573	3905994	Silencer, Exhaust
253574	3905995	Adapter, Exhaust
253580	3905998	Harness, Wiring
253581	3905999	Bracket, Radiator Support
253582	3906000	Bracket, Radiator Support
253583	3906001	Bracket, Radiator Support
253585	3906004	Shroud, Fan
253586	3906005	Mount, Rubber
253598	3907118	Panel
253600	3907120	Panel
253602	3906019	Nameplate
253604	3906013	Pick-up Magnetic
A-253606	3904466	Starter Assembly
253609	3906014	Ammeter
253610	3906015	Transformer
253613	3906016	Silencer
253614	3906017	Silencer
253618	3906018	Pipe Exhaust
253620	3906023	Fan, Blower
253622	3906024	Nameplate

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
A-253623	3906025	Engine Assembly
253628	3907071	Fan, Sucker
253629	3907072	Fan, Sucker
A-253630	3907073	Engine Assembly
253632	3907074	Guard, Fan
253633	3907075	Harness, Wiring
253640	3907078	Box, Junction
253641	3907079	Bracket, Control Panel
253642	3907080	Cover, Side
253643	3907081	Bracket, Control Panel
253644	3907082	Bracket, Control Panel
253646	3907086	Brace
253647	3907087	Bracket
253662	3907088	Cleaner, Air
253663	3907091	Cleaner, Air
253664	3907092	Cleaner, Air
253655	3907093	Hose, Molded
253666	3907094	Hose, Hump Reducer
253667	3907095	Hose, Molded
253668	3907096	Cap
253669	3907097	Bracket, Air Cleaner
253674	3907100	Band, Mounting
253676	3907101	Mount, Vibro
253677	3907102	Bracket, Control Panel
253679	3907104	Collar, Snubbing
A-253680	3907105	Panel Assembly
C-253680	3909791	Panel Assembly
A-253681	3907106	Panel Assembly
C-253681	3909792	Panel Assembly
253694	3907111	Bracket, Control Panel
253695	3907103	Panel, Silkscreen
253696	3911062	Nameplate
253701	3907113	Cable Throttle
253705	3907129	Hose, Radiator
253708	3907131	Box, Junction
253709	3907132	Panel, Box Junction
253710	3907133	Plate, Inner
253711	3907134	Cover, Junction Box
253713	3907140	Fan, Blower
253714	3907142	Shroud, Radiator
253719	3907148	Support, Radiator L.H.
253720	3907149	Support, Radiator R.H.
253723	3907866	Plug, Plastic
253727	3907872	Spacer
253731	3907876	Roof
253734	3907880	Nameplate
253735	3907881	Nameplate
253739	3907882	Pipe, Exhaust
253740	3907884	Connector

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
253741	3907885	Connector
253743	3907892	Switch, Temp.
253744	3907893	Cap, Radiator
253745	3907895	Nameplate
253747	3907896	Spacer
253748	3907897	Spacer
253749	3907898	Shroud
253751	3907900	Harness
253756	3907903	Crossmember
243757	3907904	Skid
253758	3907862	Support, Flywheel Housing
253759	3907905	Crossmember
253764	3907907	Roof
253765	3907908	Roof
253768	3907911	Rail
253769	3907912	Rail
253771	3907913	Door, Housing
253773	3907916	Adapter, Exhaust
253775	3907917	Crossmember
253776	3907918	Support, Engine
253777	3907919	Support, Engine
253779	3907921	Bracket, Panel
253780	3907922	Plate, Cover
253792	3907923	Box, Junction
253794	3907925	Cover, Junction Box
253795	3907926	Lead Assembly
253797	3907927	Hose, Molded
253798	3907928	Lead Assembly
253799	3907929	Lead Assembly
253800	3907930	Bracket, Air Cleaner
253807	3907931	Plate, Inner
253808	3907932	Panel, Junction Box
A-253812	3907924	Radiator Assembly
253813	3907933	Shroud, Fan
253819	3907934	Panel, Housing
253820	3907935	Panel, Housing
253825	3907939	Fan, Sucker
253826	3907940	Spacer, Fan
253827	3907941	Yoke, End
253828	3907942	Bolt, Eye
253829	3907943	Bar, Lifting
253830	3907944	Bar, Lifting
253831	3909705	Pin, Locking
253832	3909706	Rod, Lifting
253839	3909709	Support, Radiator
253840	3909710	Bracket, Radiator
253841	3909711	Bracket, Radiator
253842	3909712	Bracket, Radiator
253843	3909713	Bracket, Radiator

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
253844	3909714	Bracket, Radiator Guard
253845	3909715	Bracket, Radiator Guard
253846	3909716	Guard, Fan
253847	3909717	Guard, Fan
253848	3909718	Guard, Fan
253849	3909719	Crossmember
253850	3909720	Crossmember
253858	3909728	Stud
A-253859	3909748	Radiator
A-253860	3909729	Diode Assembly
253861	3909730	Shroud, Rod
253862	3909731	Guard, Fan
253863	3909732	Guard, Fan
253864	3909733	Guard, Fan
253867	3909736	Fan
253870	3909737	Fan, Sucker
253872	3909739	Spacer, Fan
253873	3909743	Hose, Radiator
253874	3909741	Hose, Radiator
253875	3909742	Tube, Steel
253877	3909744	Switch, Toggle
253902	3909752	Support, Radiator
253903	3909753	Support, Radiator
253904	3909754	Hose, Radiator
253905	3909755	Hose, Radiator
253906	3909756	Shroud, Radiator
253907	3909757	Support, Engine
253908	3909758	Support, Engine
253909	3909759	Bracket, Radiator Support
253910	3909760	Bracket, Radiator Support
253911	3909761	Bracket, Radiator Support
253912	3909762	Shroud, Fan
253913	3909763	Bracket, Shroud Support
253914	3909764	Bracket, Shroud Support
253915	3909765	Guard, Fan (R.S.)
253916	3909766	Guard, Fan (L.S.)
253917	3909767	Guard, Fan (Top)
253919	3909768	Rail, Side (R.H.)
253920	3909769	Rail, Side (L.H.)
253921	3909770	Roof, Housing
253922	3909771	Panel, Rear
253923	3909772	Door, Housing
253932	3909774	Tube, Air Intake
253936	3909776	Panel, Instrument
253937	3909778	Clip
253938	3909779	Shroud
253939	3909780	Cover, Battery
253950	3909781	Bracket, Mounting
253951	3909782	Guard, Radiator Core

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
253952	3909783	Guard, Radiator Core
253955	3909785	Rack, Battery
253957	3909787	Cover, Radiator
253959	3909788	Rack, Battery
253962	3909789	Support, Rear
253964	3911061	Kit, Start Switch
253966	3909796	Harness, Wiring
A-253967	3909797	Panel Assembly
A-253971	3909799	Contact Assembly
253972	3909800	Diagram, Wiring
A-253974	3909804	Control Assembly
253975	3909801	Bracket, Panel Mounting
253979	3909806	Bracket, Air Cleaner
253980	3909807	Pipe, Stack
253982	3909809	Pipe, Stack
253983	3909810	Pipe, Stack
253984	3909811	Mount, Vibration
253989	3909812	Adapter, Exhaust
253990	3909813	Cap, Rain
253993	3909814	Silencer, Industrial
253995	3909815	Take-off, Power
A-253998	3909842	Panel Assembly
A-253999	3909843	Panel Assembly
254003	3909816	Bracket, Throttle Cable
254004	3909817	Cleaner, Air
254005	3909818	Tube
254006	3909819	Cap, Rain
254007	3909820	Elbow, Rubber
254008	3909821	Cleaner, Air
254009	3909822	Tube
254010	3909823	Cap, Rain
254011	3909824	Elbow, Rubber
254012	3909825	Band, Mounting
254013	3909826	Clamp
254014	3909827	Tube, Crossover
254018	3909829	Lever, Throttle
254021	3909833	Elbow, Rubber
254022	3909834	Fan, Sucker
254023	3909835	Fan, Blower
A-254024	3909836	Radiator, Assembly
254025	3909839	Rail, Side
254026	3909840	Rail, Side
254028	3909841	Harness, Wiring
254029	3909846	Roof, Housing
254030	3909847	Roof, Housing
254031	3909848	Shroud, Housing
254032	3909849	Door, Housing
254033	3909850	Rail, Side Housing
254034	3909851	Rail, Side Housing

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
254035	3909852	Bracket, Rear Mounting
254039	3909853	Clamp, Battery Cable
254041	3909857	Relay
254042	3909858	Cover, Dust
254043	3909859	Tank, Fuel
254045	3909861	Shroud, Rear
254046	3909863	Shroud, Rear
254047	3909864	Cover, Radiator
254048	3909865	Support, Engine
254049	3909866	Support, Engine
254050	3909873	Harness, Wiring
254051	3909874	Harness, Wiring
254053	3909875	Box, Junction
254054	3909876	Cover, Side
254055	3909877	Bracket, Circuit Breaker
254056	3909878	Bracket, Housing
254061	3909880	Fan, Sucker
254062	3909881	Fan, Blower
254063	3909882	Spacer, Fan
254064	3909883	Spacer, Fan
254065	3911014	Bracket, Mounting
254066	3911015	Hose, Hump Reducer
254067	3911016	Roof
254069	3911017	Cleaner, Air
254070	3911018	Cleaner, Air
254071	3911019	Fuse
254073	3911021	Harness, Wiring
254077	3911023	Bracket, Air Cleaner
254078	3911024	Tube
254079	3911025	Panel, Rear
254082	3911026	Bracket, Relay
254083	3911027	Bracket, Rear Housing
254084	3911028	Bracket, Rear Housing
254085	3911029	Bracket, Relay
254086	3911030	Gasket
254087	3911031	Bracket, Lower
254088	3911034	Clamp, Hose
254089	3911035	Transformer, Current
254090	3911036	Transformer, Current
254091	3911037	Transformer, Current
254092	3911040	Bracket, Mounting
254098	3911041	Bracket, Air Cleaner
254100	3911044	Hose, Hump
254118	3911065	Harness, Wiring
254120	3911066	Harness, Wiring
254124	3911067	Drawing, Assembly
254125	3911135	Diagram, Wiring
254126	3912279	Panel, Front
254127	3911161	Strip, Market

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
A-254128	3911178	Panel Assembly
254129	3912280	Panel, Silkscreen
254130	3911162	Harness, Wiring
254131	3912335	Fan, Blower
254132	3911115	Panel, Rear Meter Box
254133	3911170	Panel, Silkscreen
254136	3911070	Fan, Blower
254137	3911071	Fan, Sucker
254138	3911072	Fan, Blower
254139	3911073	Fan, Sucker
254141	3911074	Fan, Blower
254142	3911075	Fan, Blower
254143	3911076	Kit, Fan-Service
254144	3911077	Shroud, Fan
254146	3911078	Fan, Sucker
254149	3911079	Fan, Sucker
254154	3911080	Bracket, Spring
A-254159	3911084	Radiator Assembly
254160	3911085	Bracket, Radiator
254161	3911086	Bracket, Radiator
254162	3911087	Guard, Fan
254163	3911088	Guard, Fan
254164	3911089	Guard, Fan
254165	3911112	Spacer, Tan
254166	3911091	Support, Engine
254167	3911092	Support, Engine
254168	3911093	Support, Radiator
254169	3911094	Support, Radiator
254170	3911095	Diagram, Wiring
254171	3911096	Diagram, Wiring
254172	3911097	Diagram, Interconnection
254177	3911100	Shroud, Fan
254178	3911101	Mount, Vibration
254180	3911103	Guard, Fan
254181	3911104	Guard, Fan
254182	3911105	Guard, Fan
254185	3911106	Mount, Rubber
254186	3911107	Bracket, Radiator
254187	3911108	Bracket, Radiator
254189	3911113	Fan, Sucker
254190	3911114	Fan, Blower
254197	3911142, 3912282	Strip, Marker
254198	3911141	Strip, Marker
A-254199	3911143	Charger Assembly, Battery
254204	3911147	Tachometer
254208	3911148	Bracket, Governor Mtg.
254209	3911149	Lever, Actuator
254210	3911153	Cable, Pickup
254211	3911154	Cable, Power

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
254212	3911155	Cable, Actuator
254216	3911158	Pin, Clevis
254217	3911159	Lever, Shut-off
254229	3911163	Ball Joint
254231	3911165	Harness, Wiring
254232	3911166	Harness, Wiring
254233	3911168	Harness, Wiring
254234	3911167	Harness, Wiring
254238	3911164	Panel, Front
A-254239	3911169	Panel Assembly
254243	3911180	Harness, Wiring
254244	3911184	Heater, Block
254245	3912261	Heater, Block
254246	3912262	Heater, Block
254247	3911183	Frame, Air Duct
254248	3912264	Skid
254249	3911174	Shroud, Front
254250	3911175	Shroud, Rear
254251	3911176	Roof
254252	3911181	Roof
254253	3912267	Roof
254254	3912268	Roof
254255	3912269	Panel, Filler
254256	3912270	Panel, Filler
254257	3912271	Door
254258	3912272	Door
254262	3912274	Support
254263	3912275	Bracket, Front
254264	3912277	Shroud, Rear
254265	3912278	Bracket, Housing
A-254272	3912283	Radiator Assem.
A-254275	3912285	Radiator Assembly
254276	3912286	Support, Radiator
254277	3912287	Bracket, Radiator
254278	3912288	Bracket, Radiator
254279	3912289	Guard, Fan Top
254280	3912290	Guard, Fan L.H.
254281	3912291	Guard, Fan R.H.
254282	3912292	Tube, Radiator
254283	3912293	Tube, Radiator
254284	3912294	Shroud, Fan
254285	3912295	Crossmember
254286	3912296	Plate
254287	3912297	Housing Rear Panel
254288	3912298	Door, Housing
254289	3912299	Latch
254290	3912300	Roof, Housing
254291	3912301	Roof, Housing
254292	3912302	Panel, Front

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
254293	3912303	Panel, Filler
254294	3912304	Panel, Filler
254295	3912305	Support, Housing
254296	3912306	Support, Housing
254297	3912309	Decal
254298	3912310	Support, Engine (LH)
254299	3912311	Support, Engine (R.H.)
A-0254308	3912319	Panel Assembly
254323	3912325	Panel, Housing Rear
254327	3912326	Bracket, Throttle Cable
254328	3912327	Hose, Radiator
254329	3912328	Cable, Throttle
254330	3912329	Cable, Throttle
254333	3912330	Mount, Rubber
254334	3912336	Fan, Blower
254338	3912332	Fan, Blower
254339	3912333	Fan, Sucker
254340	3912337	Bracket, Cable
254341	3912338	Cable, Throttle
254342	3912339	Bracket, Air Cleaner Support
254344	3912340	Clamp, Hose
254675	3911156	Kit, Angle Bolt
254676	3911157	Kit, Angle Bolt
A-254929	3911144	Box Assembly, Meter
255224	3905570	Voltmeter
255262	3907115	Resistor
255282	3905982	Frame, Air Duct
255341	3906021	Shroud, Fan
255344	3906020	Fan, Blower
A-255345	3906009	Radiator Assembly
A-255350	3906010	Radiator Assembly
A-255362	3907150	Radiator Assembly
255930	3911145	Box, Meter
255391	3907915	Shroud
255392	3907143	Cover, Radiator
255393	3907141	Fan
255934	3911160	Box, Meter
255400	3907870	Vibro Damper
255402	3907867	Skid
255425	3907878	Shroud
255427	3907877	Door
255523	3909790	Harness, Wiring
255582	3909749	Hose
255583	3909750	Hose
255584	3909734	Support, Radiator
255585	3909735	Support, Radiator
255600	3909856	Switch, Float
A-255604	3911046	Radiator Assembly
A-255607	3911045	Radiator Assembly

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
A-255608	3911047	Radiator Assembly
255723	3909860	Roof
255746	3911150	Actuator, Governor
255750	3911151	Pickup, Magnetic
A-255769	3912322	Radiator, Assembly
255828	3911111	Diagram, Wiring
255858	3912263	Resister Assembly
255932	3911152	Box, Control
257006	3904883	Ring, Tolerance
257011	3904878	Exciter Field Assembly
257012	3904882	Bracket, End
257015	3905524	Disc, Armature Drive
257018	3905523	Adapter, Generator
257020	3905525	Fan, Generator
257040	3904881	Stator
257046	3905527	Guard, Generator Fan
257064	3904880	Stator
257065	3905952	Stator Assembly
257070	3905510	Bracket, Sensor Mounting
257077	3905511	Actuator, Magnetic
257102	3905960	Disc, Armature Drive
257164	3905953	Stator Assembly
257166	3907138	Stator Assembly
257167	3905954	Bracket, End
257168	3905956	Ring, Tolerance
257172	3905955	Exciter Field Assembly
257173	3905961	Fan, Generator
257175	3905959	Adapter, Generator
257179	3905962	Guard, Fan
A-257200	3905559	Alternator Assembly
A-257202	3905558	Alternator Assembly
A-257203	3905949	Alternator Assembly
A-257262	3909795	Alternator Assembly
A-257300	3905950	Alternator Assembly
A-257301	3909862	Alternator Assembly
A-257302	3907137	Alternator Assembly
257442	3905528	Clip, Speed
A-257444	3905522	Rectifier Assembly
A-257445	3905958	Rectifier Assembly
A-257454	3905520	Rotor Assembly
A-257457	3905519	Rotor Assembly
A-257460	3905951	Rotor Assembly
A-257489	3905947	Rotor Assembly
257538	3911064	Stator, Wound
A-257594	3911011	Rotor Assembly
257597	3911010	Stator Assembly
257618	3911032	Rotor Assembly
257622	3911033	Rotor Assembly
A-257647	3911126	Alternator Assembly

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
A-257648	3911127	Alternator Assembly
A-257649	3911136	Alternator Assembly
A-257670	3911130	Rotor Assembly
A-257671	3911131	Rotor Assembly
A-257672	3911137	Rotor Assembly
257687	3911133	Stator Assembly
257688	3911134	Stator Assembly
257689	3911138	Stator Assembly
A-257693	3911120	Alternator Assembly
A-257695	3911119	Alternator Assembly
A-257708	3911125	Alternator Assembly
A-257747	3911122	Rotor Assembly
A-257749	3911121	Rotor Assembly
A-257751	3911129	Rotor Assembly
257767	3911123	Stator Assembly
257768	3911124	Stator Assembly
A-257769	3911132	Stator Assembly
258381	3911054	Breaker, Circuit
259365	3905291	Decal
259391	3909803	Relay
259414	3904934	Transformer, Current
259432	3903966	Solenoid
259490	3905516	Kit, SCR Module
259632	3904930	Bumper
259686	3905555	Harness, Wiring
259821	3904791	Switch, Selector
259919	3904908	Mount, Vibro
262309	3912284	Diagram, Wiring
268015	3907119	Switch Run/Off
268042	3904806	Switch
268298	3904627	Sender
268310	3904792	Bulb, Light
268371	3905578	Relay, Cranking
269359	3905298	Package, SCR Power
269373	3905301	Lamp
269955	3909805	Harness, Wiring
269958	3904612	Relay
271097	3905228	Joint, Ball
271219	3903965	Rod, Throttle
271662	3905512	Switch, Pressure
274200	3905264	Stud
279315	3904938	Cover, Junction Box
A-279379	3904916	Cleaner Assembly, Air
279380	3904917	Mount, Air Cl.
280133	3907873	Cable
A-282778	3905303	Board Assembly, Circuit
B-282778	3911063	Board Assembly, Circuit
282814	3904793	Voltmeter, AC
282830	3907122	Terminal Strip

<u>MFG. NO.</u>	<u>CUMMINS NO.</u>	<u>DESCRIPTION</u>
282896	3904802	Fuse--4 Amp
282897	3904794	Gauge, Oil Pressure
282898	3904795	Gauge, Water Temperature
282954	3904935	Ammeter
282972	3905302	Relay
283375	3904625	Switch, Toggle
283645	3904803	Fuse--15 Amp
283869	3909872	Nameplate
283919	3911052	Transformer
286019	3907869	Damper, Vibro
286020	3907868	Damper, Vibro
286867	3905230	Harness Wiring
287524	3904804	Switch, Pushbutton
B-287742	3905514	Board Assembly, Circuit
287812	3912341	Toggle, Switch
287945	3907902	Thermo Compound
287962	3909726	Lamp, Test Switch
288582	3905266	Tray, Battery
288614	3905265	Clamp, Battery
289372	3906003	Clamp, Exhaust
290090	3905513	Switch, Temperature
290357	3903889	Actuator
290358	3905232	Pickup, Magnetic
290418	3905253	Strap, Ground
290435	3905290	Decal
290864	3905256	Strap, Muffler
290865	3905257	Strap, Muffler
291269	3904926	Heater, Strip
291657	3905580	Adapter
291891	3904905	Solenoid
A-292302	3904805	Board Assembly, Circuit
B-292302	3911053	Board Assembly, Circuit
292821	3911020	Holder, Fuse
292836	3911179	Harness, Cable
295069	3904796	Meter, Frequency



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