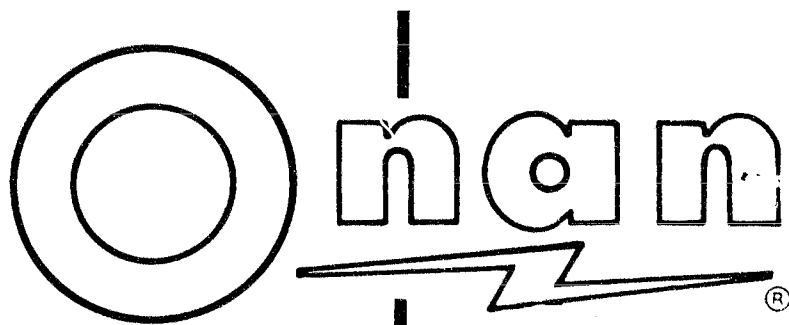


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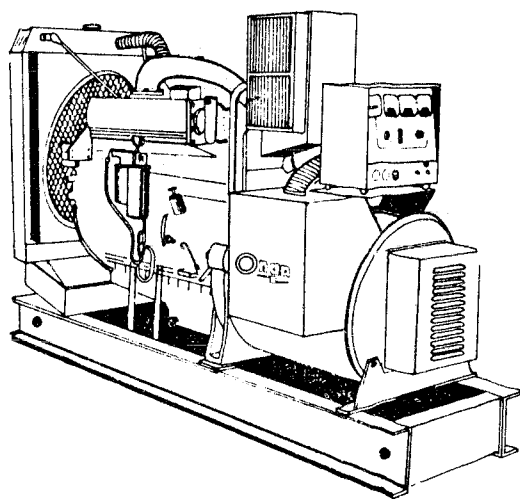
PARTS CATALOG

FOR

DYB

SERIES

ELECTRIC GENERATING PLANTS

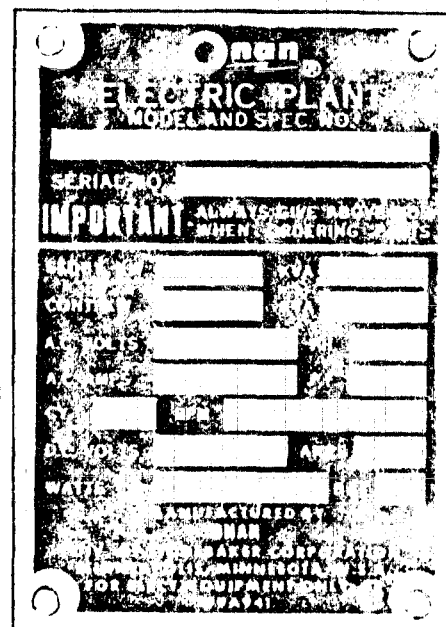


SPECIFICATION A, B, C

PARTS CATALOG

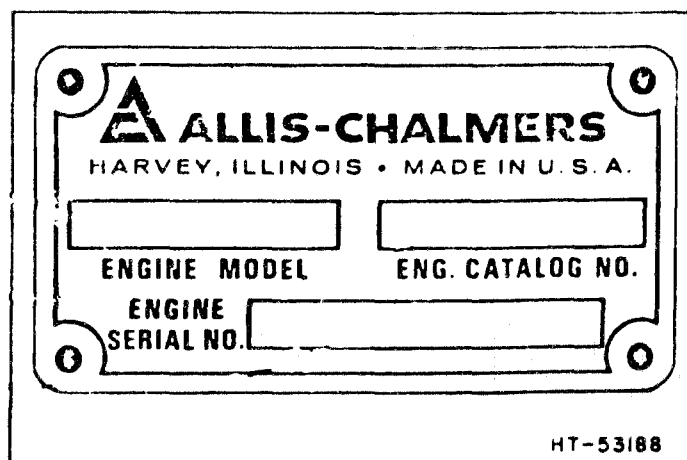
ONAN PARTS

All parts in this list are **Onan** parts. For **Onan** parts or service, contact the dealer from whom you purchased this equipment or your nearest authorized service station. To avoid errors or delay in filling your order, please refer to the **Onan nameplate** and give the complete model, specification and serial number.



ALLIS-CHALMERS PARTS

All Allis-Chalmers parts must be ordered from the Allis-Chalmers Company of Harvey, Illinois or their nearest authorized distributor. Refer to the Allis-Chalmers nameplate giving the engine model, catalog number and serial number.



This catalog applies to the standard DYB sets as listed below. Powered by a Allis-Chalmers 25000 engine (see Allis-Chalmers Manual). Engine parts modified or added by *Onan* will be in this list and have *Onan* part numbers. These supersede similar parts listed in the Allis-Chalmers manual. *Onan* parts are arranged in groups of related items and are identified by a reference. All parts illustrations are typical. Using the Model and Spec. No. from the *Onan* set nameplate, select parts from this catalog that apply to your set. Unless otherwise mentioned, parts are interchangeable. Right and left set sides are determined by facing the front end of the engine.

GENERATOR SET DATA TABLE

MODEL AND SPEC NUMBER *	ELECTRICAL DATA				
	WATTS	VOLTS	HERTZ	PHASE	WIRE
200DYB-54R8/	200,000	120/208	50	3	4
200DYB-54XR8/	200,000	277/480	50	3	4
200DYB-55DR8/	200,000	120/240	50	3	4
200DYB-57R8/	200,000	220/380	50	3	4
200DYB-57XR8/	200,000	240/416	50	3	4
200DYB-59XR8/	200,000	347/600	50	3	4
250DYB-4R8/	250,000	120/208	60	3	4
250DYB-4XR8/	250,000	277/480	60	3	4
250DYB-5DR8/	250,000	120/240	60	3	4
250DYB-7XR8/	250,000	240/416	60	3	4
250DYB-9XR8/	250,000	347/600	60	3	4

* - The Specification Letter advances (A to B, B to C, etc.) with manufacturing changes.

NOTE: Hertz is a unit of frequency equal to one cycle per second.

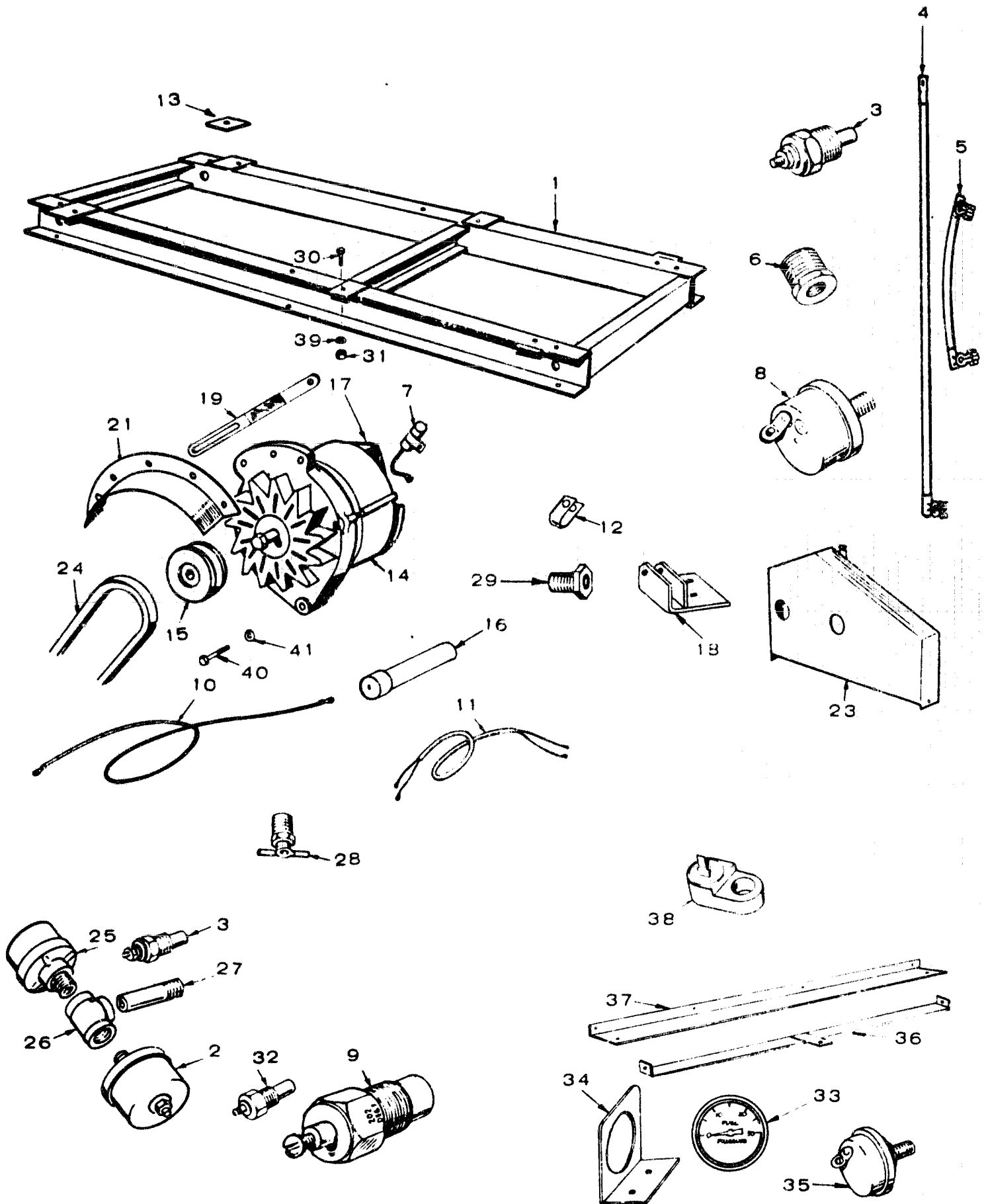
REPLACEMENT ENGINE:

100-9 77 1

Engine, Replacement - Allis-Chalmers
 Model 25000 Spec 4390848 Mark 2 -
 General Description: Includes - Complete
 Cylinder Block; Oil Pan; Fuel Transfer
 and Injection Pump; Air Cleaner; Fuel
 Filter; Oil Filter; Starter Motor; Governor;
 Radiator; Blade; Belt; Flywheel; Radiator
 Support; Fan Guard; Oil Cooler; Generator
 Mounting Bracket; Intercooler & Turbocharger.
 Excludes - Alternator; Oil Pressure & Water
 Temperature Gage Sender.

NOTE: Above engine for standard radiator cooled set. Refer to factory for all other sets.

MISCELLANEOUS ENGINE PARTS GROUP

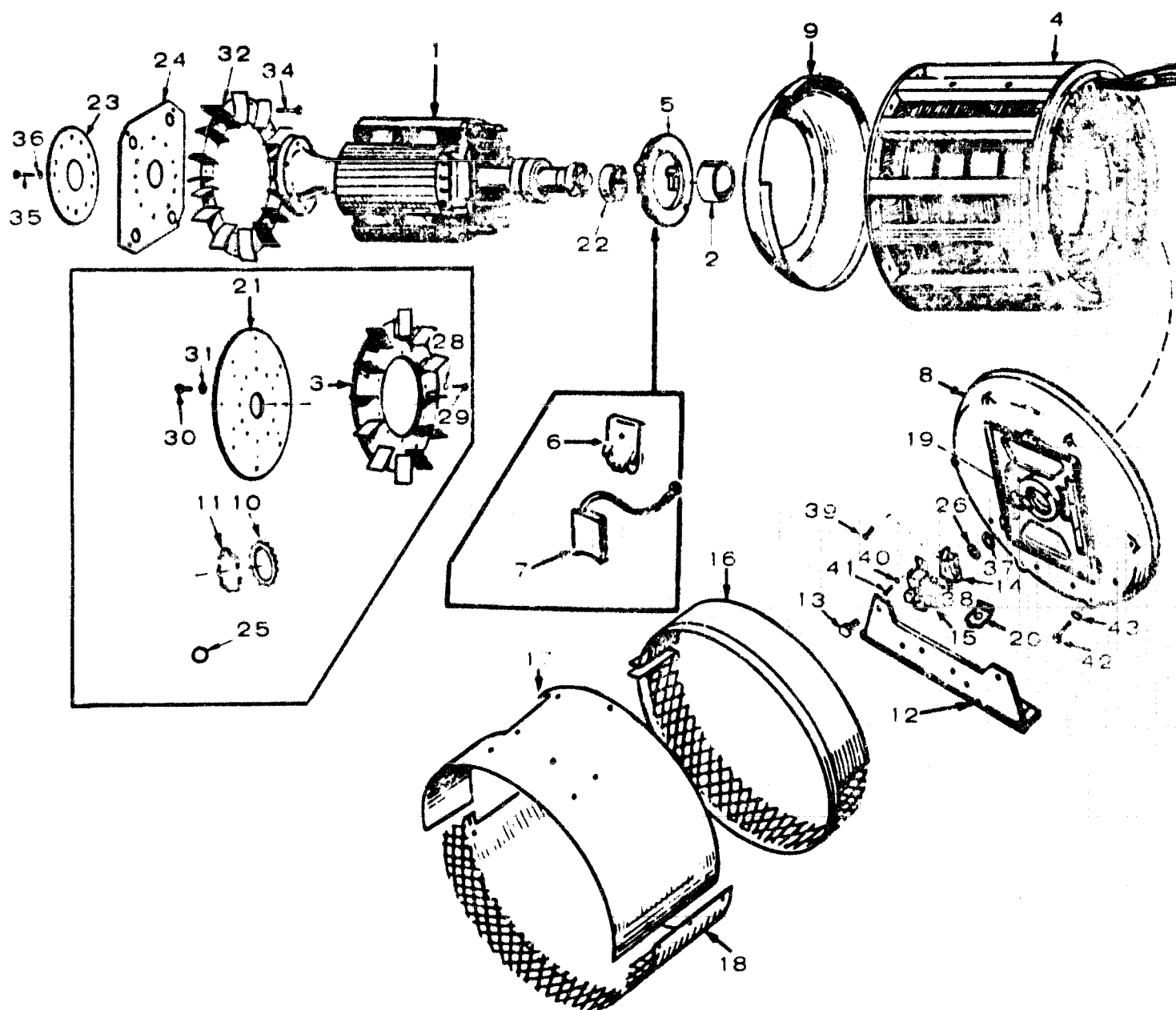


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	BASE, MOUNTING 403-0874	1	Unhoused Sets
	403-0978	1	Housed Sets
2	193-0098	1	Sender, Oil Pressure (Engine Unit Only)
3	193-0100	1	Sender, Water Temperature (Engine Unit Only)
4	CABLE, BATTERY 416-0445	1	Negative
	416-0444	1	Positive
5	416-0446	1	Cable, Battery Jumper
6	505-0019	1	Bushing, Pipe Reducer, Water Temperature Gauge (1/2 x 3/8 ")
7	312-0058	1	Condenser, Alternator - 0.1 Mfd.
8	309-0064	1	Switch, Oil Pressure Cutoff
9	309-0178	1	Switch, High Water Temperature Cutoff
10	336-1211	1	Lead, Starter (14 " Long)
11	HARNESS ASSEMBLY 338-0513	1	Engine Control
	338-0242	1	Static Exciter (4-1/2 " Sleeving)
	338-0480	1	Static Exciter (2 " Sleeving)
12	416-0096	3	Clip, Engine Control Harness
13	SHIM, GENERATOR TO MOUNTING BASE 232-1817	As Req.	.062 "
	232-1489	As Req.	.0598 "
	232-1490	As Req.	.0359 "
14	191-0688	1	*Alternator, Charge - Includes Regulator & Fan (Motorola #70D44039B04)
15	191-0781	1	Pulley, Alternator Mounting
16	232-2032	1	Support, Alternator
17	191-0733	1	Regulator, Alternator
18	191-0858	1	Bracket, Alternator Mounting
19	191-0888	1	Bracket, Alternator Adjusting
21	191-0725	1	Guard, Alternator Belt
23	191-0783	1	Guard, Belt (For Heat Exchanger Cooled Sets) - Optional

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
24	511-0059	1	Belt, Alternator (Standpipe & Heat Exchanger Cooled Sets) - Optional
25	309-0169	1	Switch, Low Oil Pressure
26	505-0059	1	Tee, Oil Sender & Switch (1/8 ")
27	505-0098	1	Nipple, Oil Sender & Switch
28	VALVE 504-0028	1	Radiator Drain
	504-0003	1	Water Jacket Drain (1/4 ")
29	505-0131	1	Bushing (3/4 x 3/8 "), Reducer - Radiator Drain
30	SCREW, MOUNTING 800-0159	2	Engine Front to Skid (3/4-10 x 3 ")
	800-0163	2	Engine Rear to Skid (3/4-10 x 4 ")
	800-0158	2	Generator to Skid (3/4-10 x 2-3/4 ")
31	862-0008	As Req.	Nut (3/4-10)
32	309-0179	1	Switch, High Water Temperature - Optional
33	193-0200	1	Gauge, Fuel Pressure - Optional
34	193-0029	1	Bracket, Fuel Pressure Gauge - Optional
35	309-0272	1	Switch, Low Oil Alarm - Optional
36	405-1771	2	Flange, Radiator - Optional
37	405-1772	2	Flange, Radiator - Optional
38	309-0269	1	Switch, Low Engine Temperature - Optional
39	850-0080	6	Washer (3/4 "), Lock
40	801-0093	1	Screw (1/2-20 x 1-3/4 ") - Alternator Mounting
41	850-0060	1	Washer (1/2 "), Lock

* For components, contact your nearest Motorola dealer or
Motorola Automotive Products Inc., 9401 W. Grand Ave.,
Franklin Park, Illinois 60131.

GENERATOR GROUP (ALTERNATOR PORTION)

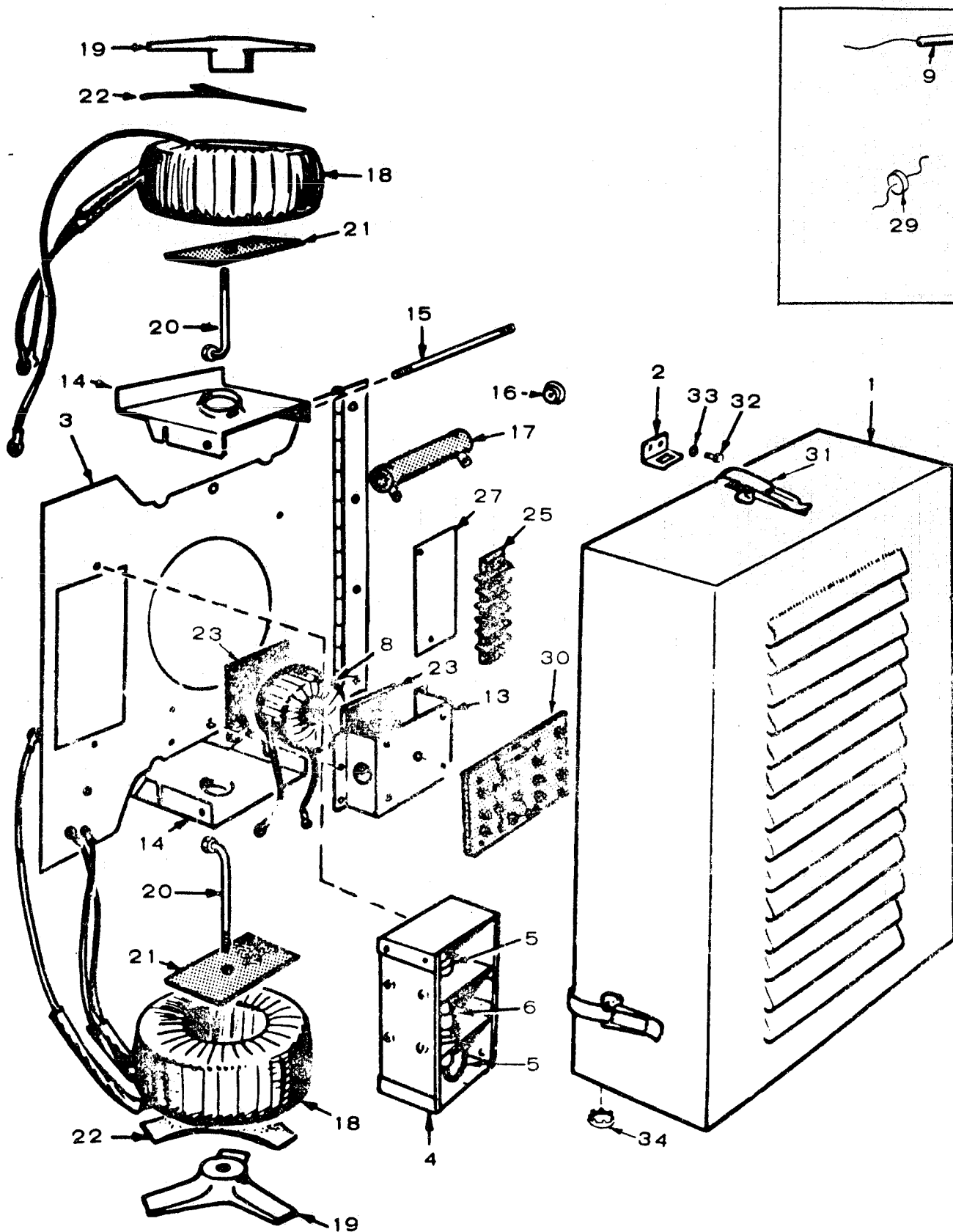


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	*	1	Rotor Assembly, Wound (Includes Bearing, Collector Ring, Fan & Drive Assembly)
2	BEARING, GENERATOR		
	510-0088	1	Spec A through Serial #067246155 during Spec B
	510-0063	1	Spec B Only (beginning Serial #0672461456 during Spec B)
	510-0101	1	Begin Spec C (Used with 211-0252 End Bell Assembly)
3	205-0061	1	Blower, Generator - Spec B Only (beginning Serial #0672461456 during Spec B)
4	*	1	Stator Assembly, Wound
5	212-0248	1	Brush Rig Assembly (Includes Brushes & Springs)
6	212-1105	4	Spring, Brush
7	214-0046	4	Brush
8	211-0252	1	Bell Assembly, End (Includes 211-0153 End Bell with 211-0251 Bearing Ring) - When replacing Spec A & B End Bells, also order 510-0101 Generator Bearing.
9	234-0069	1	Baffle, Air
10	232-1807	1	Holder, Bearing - Spec A through Serial #0672461455 during Spec B
11	232-1808	1	Spring, Bearing Holder - Spec A through Serial #0672461455 during Spec B
12	232-1396	1	Support, Generator Mounting
13	805-0035	1	Bolt, Place - Generator Mounting
14	150-0717	1	Switch Assembly, Overspeed
15	150-0713	1	Bracket, Overspeed Switch (Includes Contact Point)
16	234-0070	1	Band, Generator Stator, Front
17	234-0140	1	Band, Generator Stator (Top), Rear
18	234-0141	1	Band, Generator Stator (Bottom), Rear
19	211-0251	1	Ring, Bearing (Included in 211-0252 End Bell Assembly) - Begin Spec C

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
20	234-0107	1	Bracket, Conduit Connector
21	232-1394	1	Disc, Rotor Drive - Spec A through B
22	204-0083	1	Ring, Collector
23	232-1378	1	Shim, Drive Disc
24	232-2427	2	Disc, Rotor Drive - Begin Spec C
25	509-0125	1	Seal, O-Ring - Bearing to End Bell - Spec B Only (beginning Serial #0672461456 during Spec B)
26	526-0261	1	Washer (3/8") - Overspeed Switch Mounting - Begin Spec C
28	800-0024	6	Screw (5/16-18 x 1/2") - Blower Mounting
29	850-0045	6	Washer (5/16"), Lock
30	800-0091	8	Screw (1/2-13 x 1-1/4") - Drive Disc & Blower to Flywheel
31	850-0060	8	Washer (1/2"), Lock
32	205-0112	1	Fan, Generator - Begin Spec C
34	805-0032	4	Bolt (1/2-13 x 1-1/2") - Drive Disc & Fan to Flywheel - Begin Spec C
35	805-0035	12	Bolt (5/8-11 x 1-1/2"), Place-Shim & Disc to Hub
36	526-0259	12	Washer (5/8") - Begin Spec C
37	526-0017	1	Washer (7/16")
38	856-0010	1	Washer (3/8"), Shakeproof E.I.T.
39	812-0192	1	Screw (3/8 x 16 x 1"), Round Head - Overspeed Switch Mounting
40	853-0013	2	Washer (1/4"), Shakeproof E.T.
41	812-0148	2	Screw (1/4-20 x 1/2"), Round Head
42	800-0056	6	Screw (3/8-16 x 2-1/2") - End Bell Mounting
43	850-0050	6	Washer (3/8"), Lock

* - Refer to factory giving complete Model, Spec and Serial Number from the Onan Nampelate.

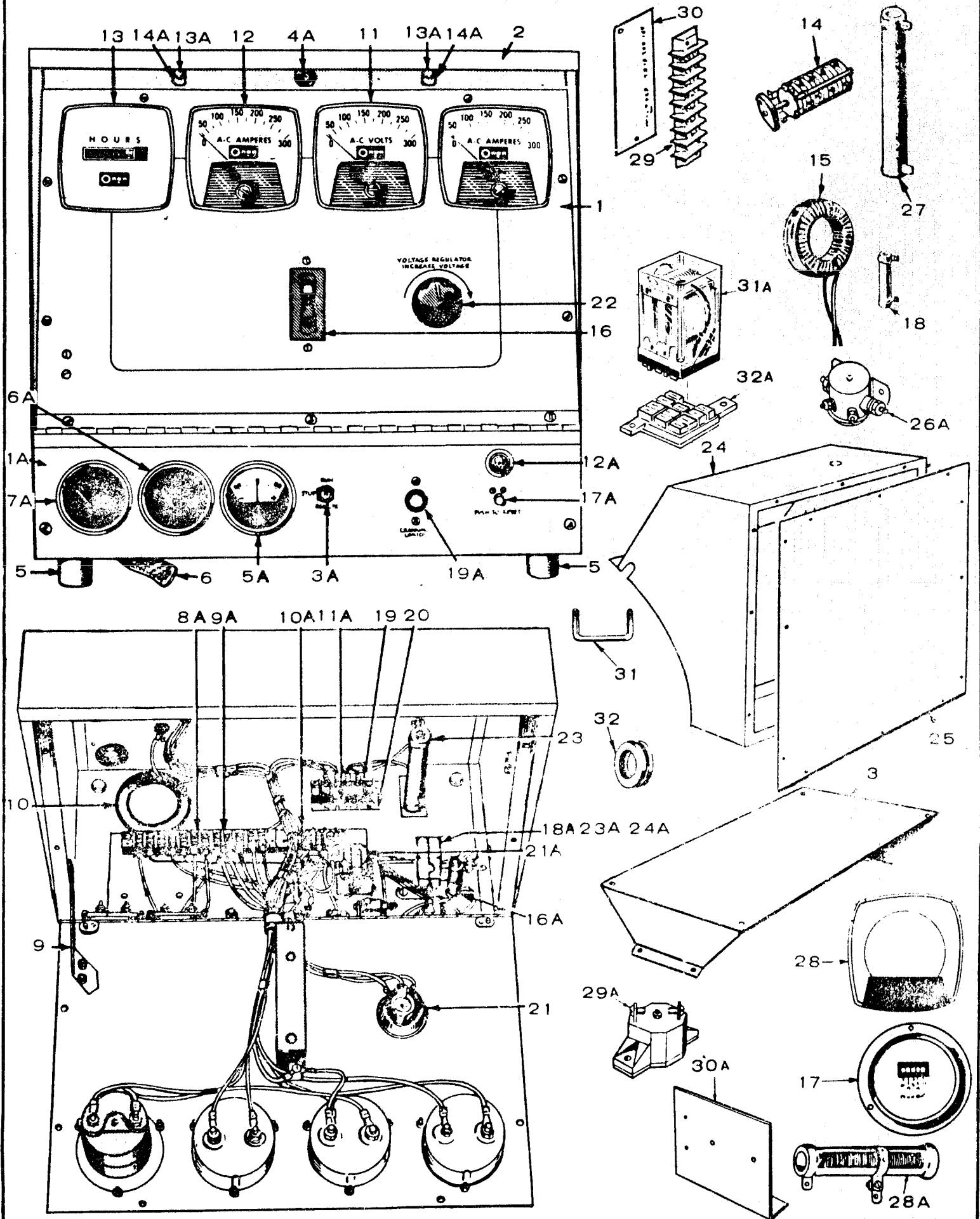
GENERATOR GROUP (EXCITER PORTION)



<u>REF. NO.</u>	<u>PART NO.</u>	<u>QTY. USED</u>	<u>PART DESCRIPTION</u>
	209-0025	1	Magneciter Assembly, Complete
1	234-0116	1	Cover, Exciter
2	232-1376	3	Bracket, Fastening, Cover to Alternator End Bell
3	234-0074	1	Panel Only, Exciter
4	305-0228	1	Rectifier Assembly, Power Complete (Includes two #305-0233 & two #305-0234 Rectifier plus wire and hardware)
5	RECTIFIER ONLY, POWER (Field)		
	305-0233	2	Lower Two, Negative (Included in Rectifier Assembly #305-0228)
6	305-0234	2	Upper Two, Positive (Included in Rectifier Assembly #305-0228)
8	315-0078	1	Reactor, Voltage Control
9	304-0476	1	Resistor, Voltage Control Reactor (Included in Rectifier & Resistor Assembly #305-0227)
13	234-0115	1	Bracket, Mounting - Voltage Control Reactor
14	234-0075	2	Bracket, Gate Reactor Mounting

<u>REF. NO.</u>	<u>PART NO.</u>	<u>QTY. USED</u>	<u>PART DESCRIPTION</u>
15	520-0190	1	Stud, Resistor Mounting
16	304-0015	2	Washer, Resistor Centering
17	304-0442	1	Resistor, Fixed - Mounts to Gate Reactor Bracket
18	315-0051	2	Reactor, Gate
19	232-1389	2	Retainer, Gate Reactor
20	232-1403	2	Stud, Gate Reactor Mounting
21	232-1388	2	Gasket, Gate Reactor Mtg.
22	232-1387	2	Gasket, Gate Reactor to Retainer
23	232-1548	2	Gasket, Control Reactor Coil Mounting
25	332-0532	1	Block, Terminal (5-Place)
27	332-0693	1	Strip, Terminal Block Marker (5-Place)
29	305-0240	4	Rectifier, Voltage Control Reactor (Included in Rectifier & Resistor Assembly #305-0227)
30	305-0227	1	Resistor Assembly, Rectifier (Includes 304-0476 Resistor and (4) Rectifier 305-0240)
31	406-0247	3	Fastener, Cover
32	800-0003	6	Screw (1/4-20 x 1/2 ")
33	850-0040	6	Washer (1/4 "), Lock
34	517-0021	1	Dot Button (7/8 ")

CONTROL GROUP (AC OUTPUT PORTION)
CONTROL GROUP (ENGINE INSTRUMENTS PORTION)



CONTROL GROUP (AC Output Portion)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	*	1	Panel Only, Upper Control
2	301-2115	1	Box Only, Control
3	301-1830	1	Bracket, Control Box Mounting
5	402-0070	4	Mount, Rubber, Control Box Mounting
6	337-0044	1	Strap, Ground
9	301-1914	1	Bracket, Panel Stop
10	508-0063	1	Grommet (2-3/4" Hole)
11	VOLTMETER, AC (Check Scale and Select According to Rating)		
	302-0421	1	Voltmeter Scale 0-300
	302-0422	1	Voltmeter Scale 0-600
	302-0423	1	Voltmeter Scale 0-750
12	AMMETER, AC (Check Scale and Select According to Rating) NOTE: 1-Phase use 2.		
	302-0414	1	Ammeter Scale 0-500
	302-0415	1	Ammeter Scale 0-750
	302-0416	1	Ammeter Scale 0-1000
13	METER, RUNNING TIME		
			60 Hertz Plants
	302-0465	1	120/240 Volt, 1 Phase, 120/208 Volt, 3 Phase, 120/240 Volt, 3 Phase & 600 Volt, 3 Phase
	302-0467	1	277/480 Volt, 3 Phase
			50 Hertz Plants
	302-0468	1	120/240 Volt, 1 Phase, 120/208 Volt, 3 Phase, 120/240 Volt, 3 Phase & 600 Volt, 3 Phase
	302-0469	1	220/380 Volt, 3 Phase
	302-0470	1	277/480 Volt, 3 Phase
14	308-0022	1	Switch, Voltage and Current Selector
15	TRANSFORMER, CURRENT (Check Transformer Nameplate, Select According to Rating)		
	302-0372	3	Nameplate Ratio 500/5 (Use with 0-500 AC Ammeter)
	302-0385	3	Nameplate Ratio 750/5 (Use with 0-750 AC Ammeter)
	302-0394	3	Nameplate Ratio 1000/5 (Use with 0-1000 AC Ammeter)
16	320-0170	1	Breaker, Circuit
17	METER, FREQUENCY		
	302-0213	1	60 Hertz Plants
	302-0234	1	50 Hertz Plants
18	RESISTOR FREQUENCY METER		
	304-0305	1	For 277/480 Volt, 3 Phase Plants (45,000-Ohm, 10 Watt)
	304-0125	1	For 220/380 Volt, 3 Phase Plants (15,000-Ohm, 25 Watt)
	304-0402	1	For 600 Volt, 3 Phase Plants (60,000-Ohm, 10 Watt)
19	332-0604	1	Block, Terminal (5-Place)
20	332-0690	1	Strip, Block Marker (5-Place)
21	303-0111	1	Rheostat, Voltage Regulator
22	303-0032	1	Knob, Rheostat
23	304-0484	1	Resistor, Voltage Regulator
24	301-1682	1	Box, Output Terminal (Side of Generator)

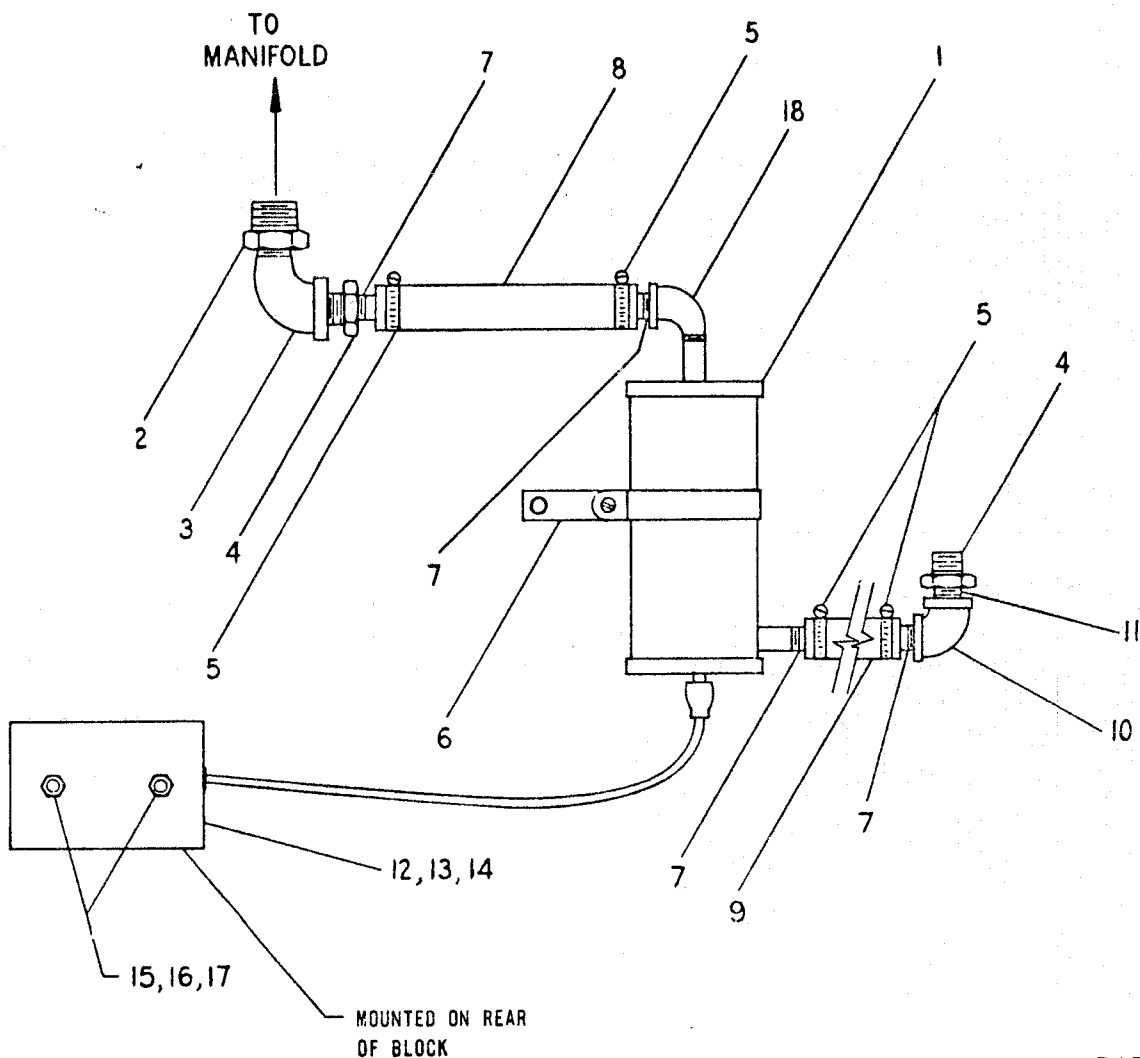
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
25	301-1683	1	Cover, Output Terminal Box
27	304-0536	1	Resistor, Fixed (9000-Ohm, 50 Watt) Off Running Time Meter, 600 Volt 3 Phase
28	302-0448	1	Plate, Meter Face
29	332-0503	1	Block, Terminal (8-Place)
30	332-1174	1	Strip, Block Marker (15 thru 22)
31	301-2727	1	Handle, Control Box
32	508-0063	2	Grommet
	320-0307	1	Lock, Circuit Breaker (Penn State Only) - Not Illustrated - Optional

* - Order by description, giving complete Model, Spec., and Serial Number (ONAN Nameplate).

CONTROL GROUP (Engine Instruments Portion)

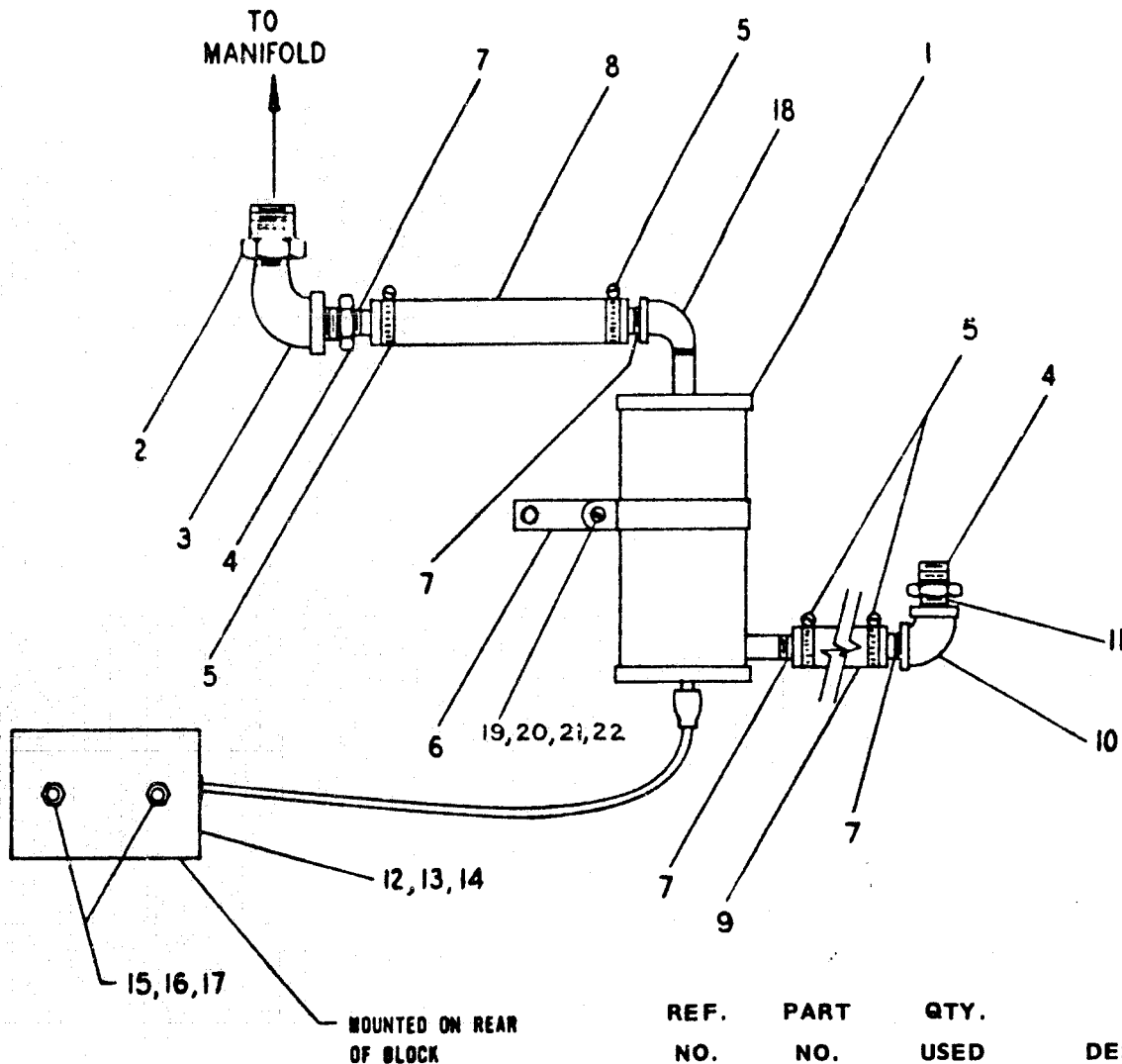
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1A	301-2124	1	Panel Only, Lower Control
3A	308-0138	1	Switch (Run-Stop-Remote)
4A	308-0002	1	Switch, Panel Light
5A	302-0061	1	Ammeter, Charge (30-0-30)
6A	193-0112	1	Gauge, Water Temperature
7A	193-0111	1	Gauge, Oil Pressure
8A	BLOCK, TERMINAL		
	332-0795	1	Spec A Only (16 Place)
	332-1005	1	Begin Spec B (20 Place)
9A	STRIP, MARKER		
	332-0862	1	Spec A Only (4-19)
	332-1006	1	Begin Spec B (4-23)
10A	332-0611	1	Block, Terminal (3-Place)
11A	332-1009	1	Strip, Marker (Ground, B+, Remote)
12A	322-0069	1	Receptacle Assembly, Pilot Light
13A	322-0072	2	Receptacle, Panel Light
14A	322-0017	3	Bulb, (2) Panel (1) Pilot
16A	304-0446	2	Resistor, Fixed (150-Ohm, 10 Watts)
17A	307-0655	1	Relay, Emergency Latch
18A	307-0820	2	Relay, (1) Start-Disconnect (1) Fuel Solenoid
19A	320-0104	1	Relay, Cranking Limiter
21A	307-0899	1	Relay, Time Delay, Low Oil Pressure Switch
23A	307-0778	2	Spring, Relay Holddown
24A	323-0052	2	Socket, Relay
26A	307-0061	1	Relay, Pilot
28A	304-0066	1	Resistor, Adjustable
29A	320-0240	1	Breaker, Circuit-Starting
30A	301-1685	1	Bracket, Relay Mounting
31A	307-1061	1	Relay, Starter Motor Protection - Begin Spec B
32A	323-0760	1	Socket, Starter Motor Protection Relay - Begin Spec B

WATER JACKET HEATER INSTALLATION -120 VOLT



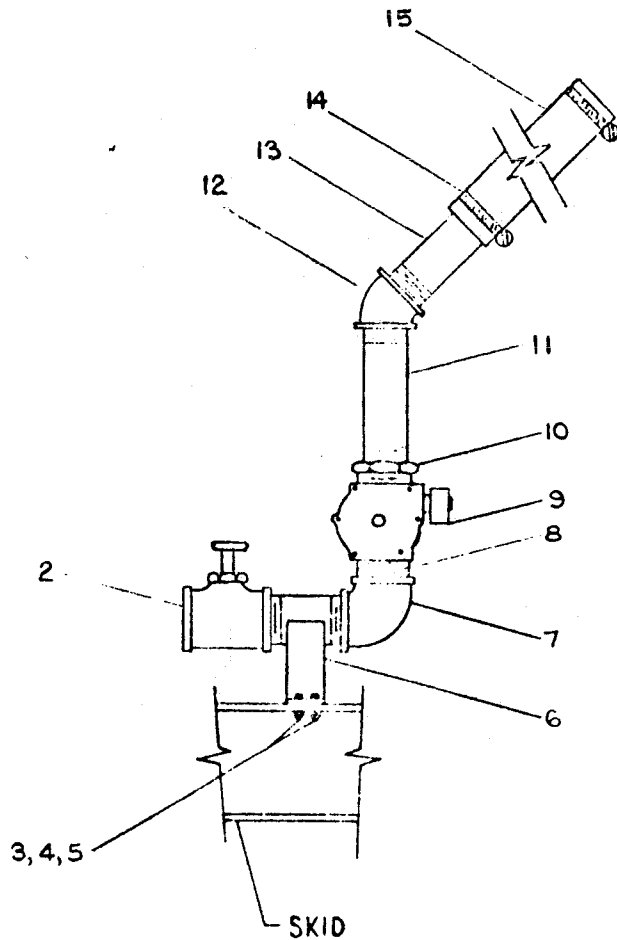
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	333-0053	1	Heater
2	505-0022	1	Bushing, Reducer (1/2 x 1")
3	505-0050	1	Elbow, Street (1/2 x 90°)
4	505-0019	2	Bushing, Reducer (3/8 x 1/2")
5	503-0183	4	Clamp, Hose
6	130-0755	1	Bracket
7	505-0135	4	Nipple, Half (3/8 x 1-1/2")
8			Hose, (Order 4' of Bulk Hose #503-0386)
9			Hose, (Order 19-1/2' of Bulk Hose #503-0386)
10	505-0039	1	Elbow (3/8 x 90°)
11	505-0101	1	Nipple, Close (3/8 x 1")
12	309-0106	1	Thermostat
13	333-0012	1	Box, Thermostat
14	333-0013	1	Cover, Thermostat Box
15	520-0446	2	Stud
16	870-0053	2	Nut, Hex (10-32)
17	850-0030	2	Washer, Lock #10
18	505-0120	1	Elbow, Street (3/8 x 90°)

WATER JACKET HEATER INSTALLATION - 240 VOLT



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	333-0073	1	Heater
2	505-0022	1	Bushing (1 x 1/2 ")
3	505-0050	1	Elbow (1/2 x 90°), Street
4	505-0019	2	Bushing (3/8 x 1/2 "), Reducer
5	503-0183	4	Clamp, Hose
6	130-0755	1	Bracket
7	505-0135	4	Nipple (3/8 x 1-1/2 "), Half
8		1	Hose, Water (Order 4 " of Bulk Hose #503-0386)
9		1	Hose, Water (Order 19-1/2 " of Bulk Hose #503-0386)
10	505-0039	1	Elbow (3/8 x 90°)
11	505-0101	1	Nipple (3/8 x 1 "), Close
12	309-0256	1	Thermostat
13	333-0057	1	Box, Thermostat
14	333-0056	1	Cover, Thermostat Box
15	322-0672	2	Stud
16	870-C053	2	Nut (10-32)
17	850-0030	2	Washer (10), Lock
18	505-0120	1	Elbow (3/8 x 90°), Street
19	800-0031	1	Screw (5/16-18 x 1-1/2 ")
20	526-0115	2	Washer (5/16 ")
21	856-0008	2	Washer (5/16 "), Shakeproof EIT
22	862-0015	1	Nut (5/16-18)

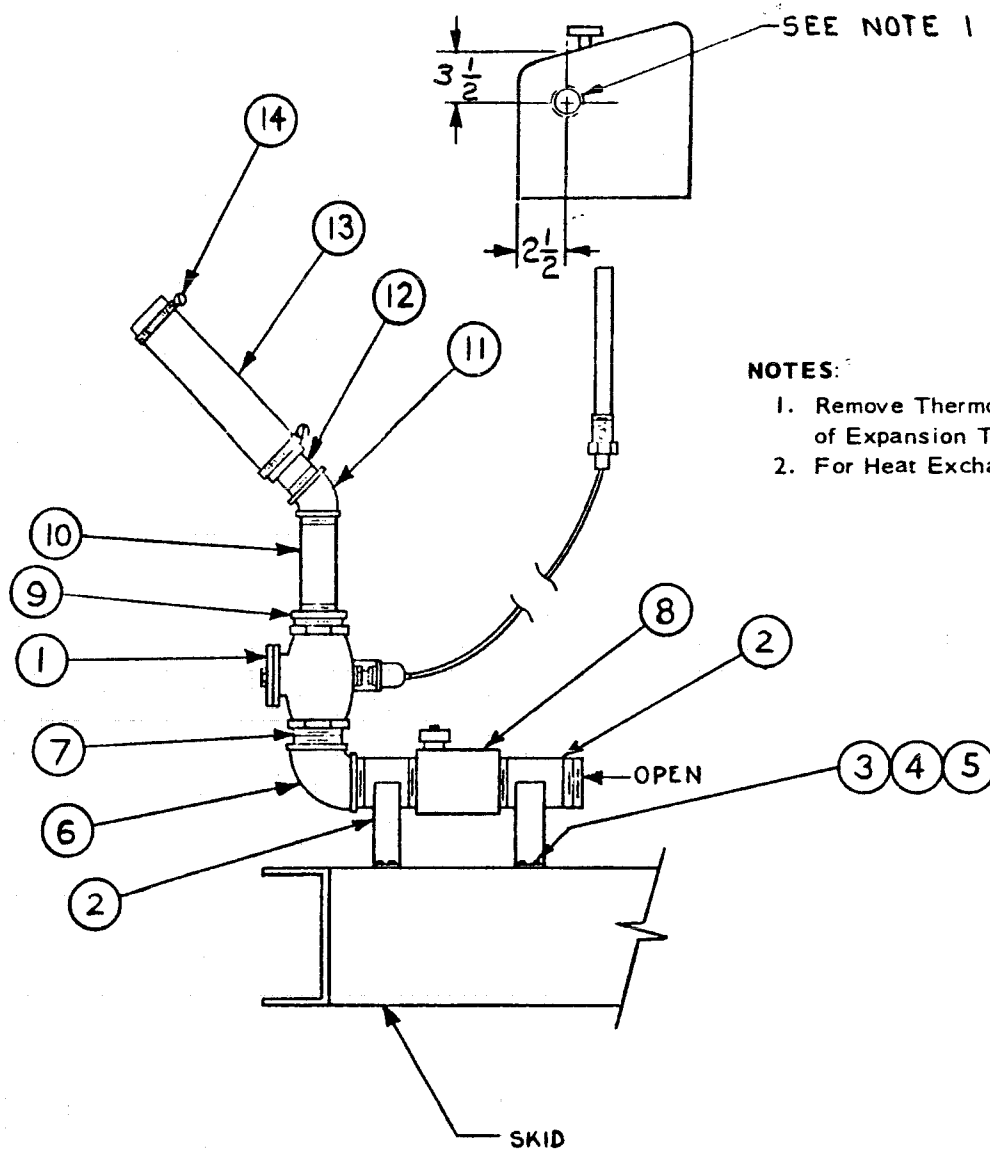
SOLENOID VALVE INSTALLATION



NOTE: For Heat Exchanger Models.

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
2	504-0057	1	Valve, Gate
3	800-0007	2	Screw, Hex Head Cap (1/4-20 x 1")
4	850-0040	2	Washer, Lock (1/4)
5	862-0001	2	Nut, Hex (1/4-20)
6	130-0801	1	Nipple Assembly, - Water Line
7	505-0175	1	Elbow, Pipe (90° x 2")
8	505-0172	1	Nipple, Close (2 x 2")
9	307-0844	1	Valve, Solenoid (2")
10	505-0187	1	Bushing, Reducer
11	505-0496	1	Nipple, (1-1/2 x 8")
12	505-0191	1	Elbow, Pipe (45° x 1-1/2")
13	505-0474	1	Nipple, Half (1-1/2 x 5 Long)
14	503-0365	2	Clamp, Hose
15	503-0364	1	Hose, Flexible (1-3/4 I.D.)

SOLENOID VALVE AND REGULATOR INSTALLATION

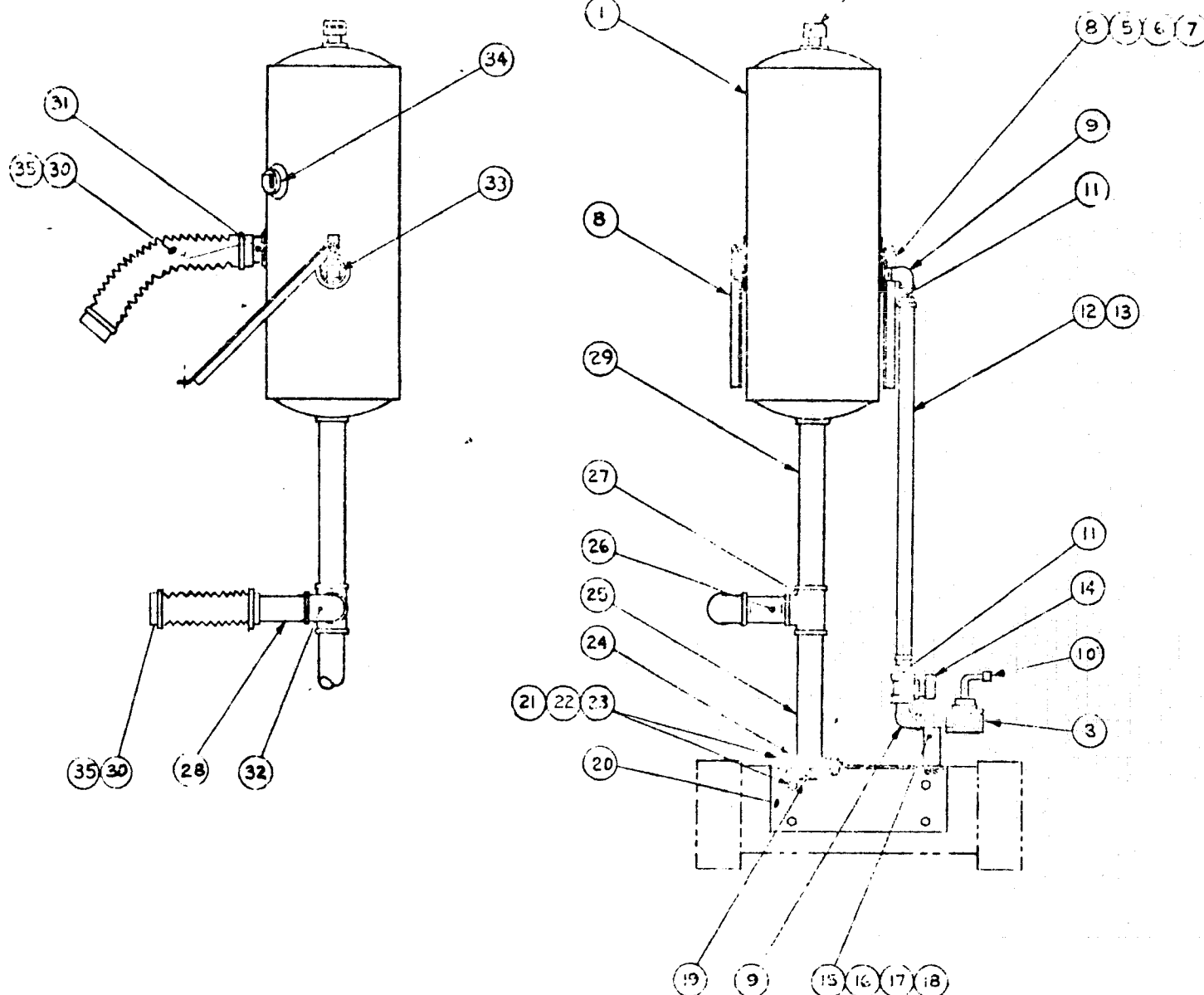


NOTES:

1. Remove Thermostat, Drill .939, 3/4 NPT (Right Side of Expansion Tank for Regulator Bulb).
2. For Heat Exchanger Models.

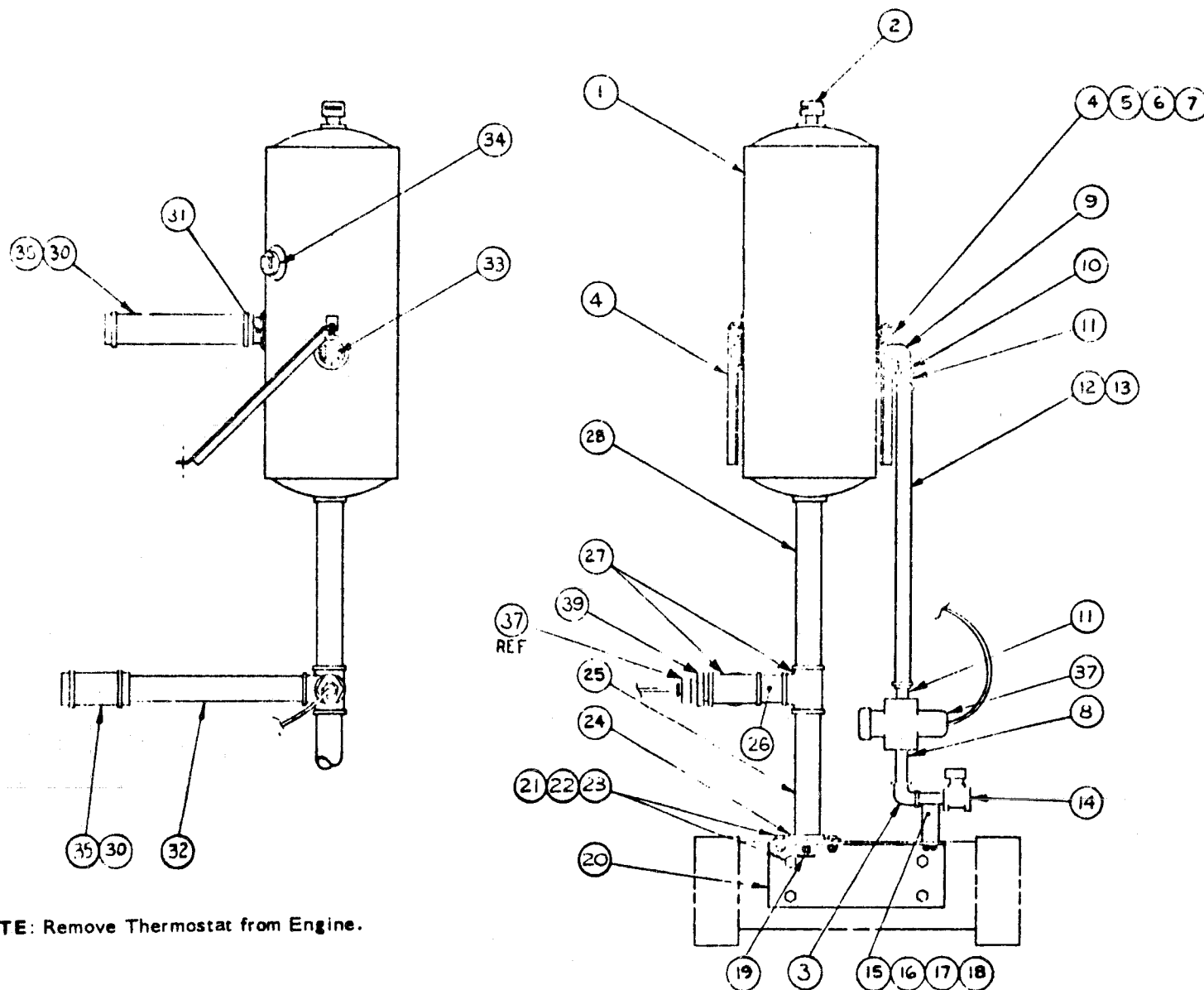
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	309-0245	1	Valve-Water Temperature Control
2	130-0801	2	Nipple Assembly - Water Line
3	800-0007	4	Screw, Hex Head Cap (1/4-20 x 1")
4	850-0040	4	Washer, Lock (1/4)
5	862-0001	4	Nut, Hex (1/4-20)
6	505-0175	1	Elbow (2 x 90°)
7	505-0172	1	Nipple, Close (2 x 2")
8	307-0844	1	Valve, Solenoid (2")
9	505-0187	1	Bushing, Reducer
10	505-0641	1	Nipple (1-1/2 x 6")
11	505-0191	1	Elbow (45°)
12	505-0474	1	Nipple, Half (1-1/2 x 5" Long)
13	503-0364	1	Hose, Vulcanized Flexible Radiator
14	503-0365	2	Clamp, Hose

STANDPIPE COOLED INSTALLATION



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	130-0425	1	Standpipe
2	504-0062	1	Valve, Vacuum Relief
3	504-0051	1	Valve, Lockshield (1-1/4")
5	800-0048	2	Screw, Hex Head Cap (3/8-16 x 3/4")
6	850-0050	2	Washer, Lock (3/8)
7	862-0003	2	Nut, Hex (3/8-16)
8	130-0792	2	Brace, Standpipe
9	505-0186	2	Elbow, Black Street (1-1/4 x 90°)
10	504-0052	1	Key, Valve
11	505-0384	2	Nipple, Half (1-1/4 x 2")
12			Hose, Heater (Order 36" of Bulk Hose #503-0359)
13	503-0011	2	Clamp, Hose
14	307-0839	1	Valve, Solenoid
15	110-1168	1	Bracket & Nipple, Waterline
16	800-0007	2	Screw, Hex Head Cap (1/4-20 x 1")
17	850-0040	2	Washer, Lock (1/4)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
18	862-0001	2	Nut, Hex (1/4-20)
19	504-0006	1	Cock, Drain
20	130-0818	1	Support, Standpipe Mounting
21	800-0092	8	Screw, Hex Head Cap (1/2-13 x 1-1/2")
22	850-0060	8	Washer, Lock (1/2)
23	862-0005	8	Nut, Hex (1/2-13)
24	130-0442	1	Base, Standpipe
25	505-0419	1	Nipple (2 x 12")
26	505-0193	1	Nipple (2 x 4-1/2")
27	505-0374	1	Tee, Pipe (2")
28	505-0375	1	Nipple (2 x 7")
29	505-0377	1	Nipple (2 x 18-1/2")
30	503-0354	4	Clamp, Hose
31	505-0204	1	Nipple, Half (2 x 2")
32	505-0175	1	Elbow, Pipe (90° x 2")
33	505-0359	1	Plug, Square Head (1-1/4")
34	505-0140	1	Plug, Square Head (1")
35	503-0631	2	Hose, Flexible (2-1/2 x 2-1/4 x 18")

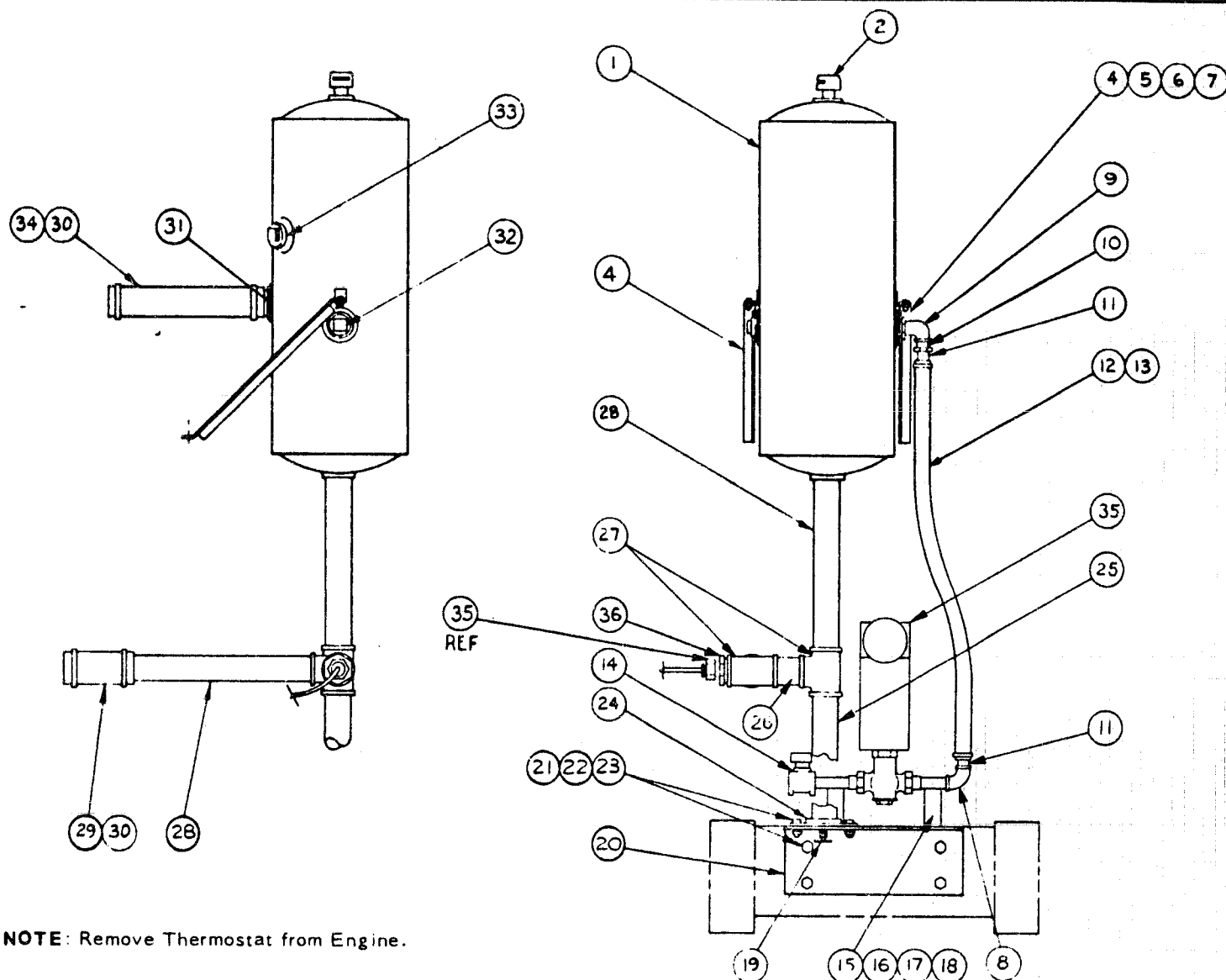


NOTE: Remove Thermostat from Engine.

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	130-0425	1	Standpipe
2	504-0062	1	Valve, Vacuum Relief
3	505-0041	1	Elbow, Pipe (1" x 90°)
4	130-0792	2	Brace, Standpipe
5	800-0048	2	Screw, Hex Head Cap (3/8-16 x 3/4")
6	850-0050	2	Washer, Lock (3/8)
7	862-0003	2	Nut, Hex (3/8-16)
8	505-0004	1	Nipple, Close (1 x 1-1/2")
9	505-0186	1	Elbow, Black, Street (1-1/4" x 90°)
10	505-0023	1	Bushing, Reducer
11	505-0330	2	Nipple, Half (1 x 2")
12			Hose, Heater (Order 36" of Bulk Hose #503-0361)
13	503-0004	2	Clamp, Hose
14	307-1135	1	Valve, Solenoid
15	130-0797	1	Nipple Assembly, Water Line
16	800-0007	2	Screw, Hex Head Cap (1/4-20 x 1")
17	850-0040	2	Washer, Lock (1/4)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
18	862-0001	2	Nut, Hex (1/4-20)
19	504-0006	1	Cock, Drain
20	130-0818	1	Support, Standpipe Mounting
21	800-0092	8	Screw, Hex Head Cap (1/2-13 x 1-1/2")
22	850-0060	8	Washer, Lock (1/2)
23	862-0005	8	Nut, Hex (1/2-13)
24	130-0442	1	Base, Standpipe
25	505-0419	1	Nipple, Pipe (2 x 12")
26	505-0193	2	Nipple, Pipe (2 x 4-1/2")
27	505-0374	2	Tee, Pipe (2")
28	505-0377	1	Nipple, Pipe (2 x 18-1/2")
30	503-0354	4	Clamp, Hose
31	505-0380	1	Nipple, Half (2 x 3")
32	505-0375	1	Nipple (2 x 7")
33	505-0359	1	Plug, Square Head (1-1/4")
34	505-0140	1	Plug, Square Head (1")
35	503-0631	2	Hose, Radiator
37	309-0242	1	Valve, Water Temperature Control
39	505-0351	1	Bushing, Reducer (3/4 x 2")

STANDPIPE COOLING WITH MARSH REGULATOR INSTALLATION



NOTE: Remove Thermostat from Engine.

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	130-0425	1	Standpipe
2	504-0062	1	Valve, Vacuum Relief
4	130-0792	2	Brace, Standpipe
5	800-0048	2	Screw, Hex Head Cap (3/8-16 x 3/4")
6	850-0050	2	Washer, Lock (3/8)
7	862-0003	2	Nut, Hex (3/8-16)
8	505-0041	1	Elbow, Pipe (1" x 90°)
9	505-0186	1	Elbow, Black Street (1-1/4" x 90°)
10	505-0023	1	Bushing, Reducing
11	505-0330	2	Nipple, Half (1 x 2")
12			Hose, Heater (Order 40" of Bulk Hose #503-0587)
13	503-0004	2	Clamp, Hose
14	307-1135	1	Valve, Solenoid
15	130-0797	2	Nipple Assembly, Water Line
16	800-0007	4	Screw, Hex Head Cap (1/4-20 x 1")
17	850-0040	4	Washer, Lock (1/4)
18	862-0001	4	Nut, Hex (1/4-20)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
19	504-0006	1	Cock, Drain
20	130-0818	1	Support, Standpipe
21	800-0092	8	Screw, Hex Head Cap (1/2-13 x 1-1/2")
22	850-0060	8	Washer, Lock (1/2)
23	862-0005	8	Nut, Hex (1/2-13)
24	130-0442	1	Base, Standpipe
25	505-0419	1	Nipple, Pipe (2 x 12")
26	505-0193	2	Nipple, Pipe (2 x 4-1/2")
27	505-0374	2	Tee, Pipe (2")
28	505-0377	2	Nipple, Pipe (2 x 18-1/2")
29		1	Hose, Radiator (Order 6-1/4" of Bulk Hose #503-0500)
30	503-0354	4	Clamp, Hose
31	505-0380	1	Nipple, Half (2 x 3")
32	505-0359	1	Plug, Square Head (1-1/4")
33	505-0140	1	Plug, Square Head (1")
34	503-0631	1	Hose, Radiator
35	309-0249	1	Valve, Water Temperature Control (Powers)
36	505-0351	1	Bushing, Reducer (3/4 x 2")

STANDPIPE COOLING WITH POWERS REGULATOR INSTALLATION