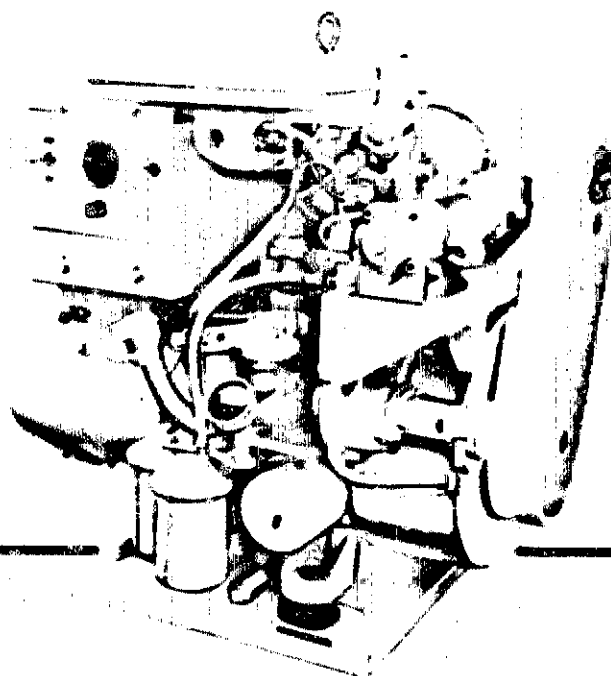


The following catalog has gaps in its page numbers, or doesn't have any numbers. We have chosen to leave the page numbering in the order that Acrobat assigns it.

Parts Manual

MDJA GenSets



968-0223
6-81 (SPEC A-V)

Replaces **Power**
5-78 (Spec A-V) **Generation**
Printed in U.S.A.

GENERAL INFORMATION

INSTRUCTIONS FOR ORDERING REPAIR PARTS

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest Authorized Onan Parts and Service Center.

To avoid errors or delay in filling your parts order, please furnish all information requested.

Always refer to the nameplate on your unit.

1. Always give the MODEL, SPEC NO. and SERIAL NO.

The image shows a rectangular nameplate form with the Onan logo at the top. Below the logo is a large rectangular box labeled "MODEL AND SPEC NO.". Below that is a smaller rectangular box labeled "SERIAL NO.". The form has two circular punch holes at the top corners. The text "M-1149" is printed at the bottom right of the form.

For handy reference, insert "YOUR" nameplate information in the spaces above.

2. Do not order by reference number; always use part number and description.
3. Give the part number, description and quantity needed of each item. If an older part cannot be identified, return the part prepaid to your dealer or nearest Onan Parts and Service Center. Print your name and address plainly on the package. Write a letter to the same address stating the reason for returning the part.
4. State definite shipping instructions. Any claim for loss or damage to your unit in transit should be filed promptly against the transportation company making the delivery. Shipments are complete unless the packing list indicates items are back ordered.

Prices are purposely omitted from this Parts Catalog due to the confusion resulting from fluctuating costs, import duties, sales taxes, exchange rates, etc.

For current parts prices, consult your Onan Dealer, Distributor or Parts and Service Center.

"En esta lista de partes los precios se omiten de proposito, ya que bastante confusion resulto de fluctuaciones de los precios, derechos aduanales, impuestos de venta, cambios extrajeros, etc."

Consiga los precios vigentes de su distribuidor de productos "ONAN."

Std. #36

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INTRODUCTION

This catalog applies to the standard MDJA Electric Generating Sets as listed below. Parts are arranged in groups of related items. Each illustrated part is identified by a reference number corresponding to the same reference number below the illustration. Parts illustrations are typical. Using the MODEL and SPEC NO. from the set nameplate, select the PARTS KEY NO. (1, 2, etc., in the last column) that applies to your set MODEL and SPEC NO. This PARTS KEY NO. represents parts that differ between models. Unless otherwise mentioned in the description, parts are interchangeable between models. Right and left generating set sides are determined by FACING the engine end (front) of the generating set.

GENERATING SET DATA TABLE

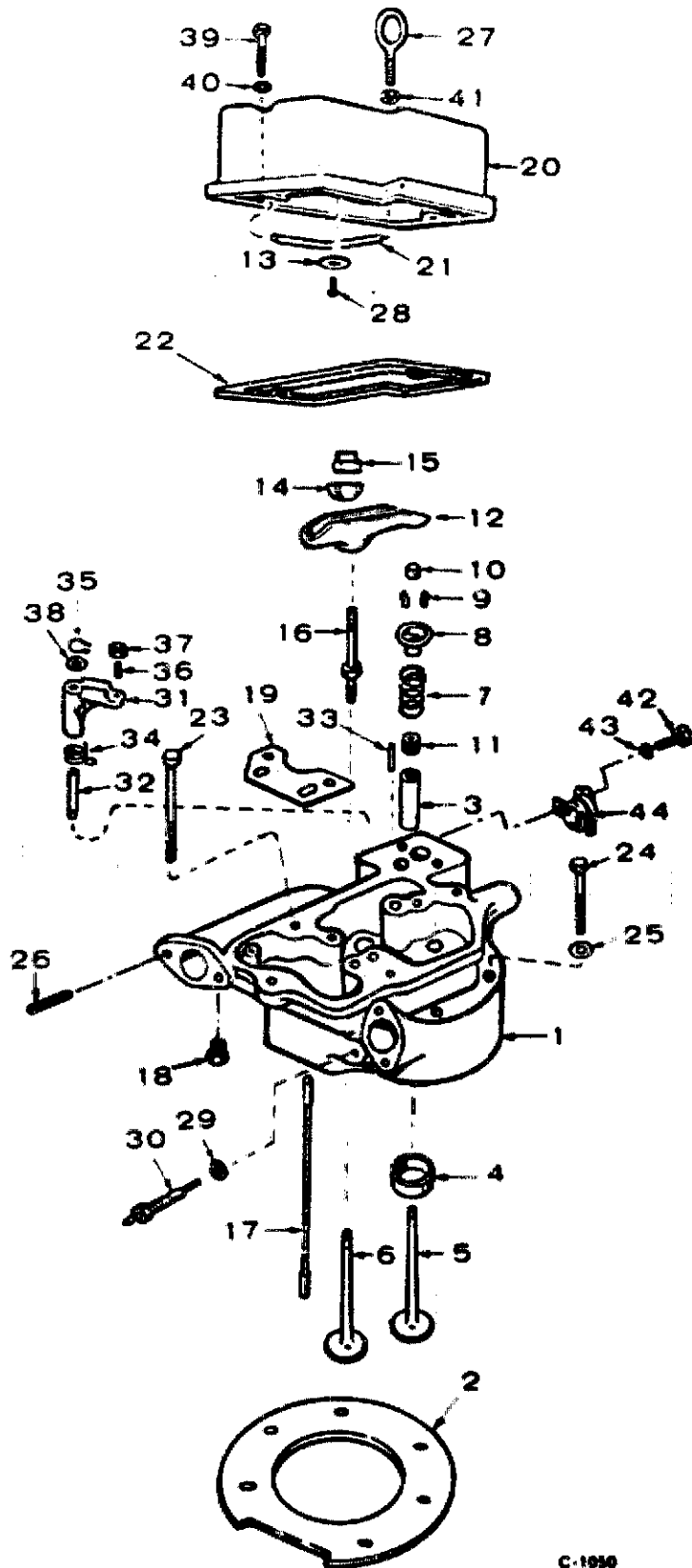
★ MODEL AND SPEC NO.	ELECTRICAL DATA					PARTS KEY NO.
	WATTS	VOLTS	HERTZ	WIRE	PHASE	
2.5MDJA-51R/*	2,500	120	50	2	1	1
2.5MDJA-52R/*	2,500	240	50	2	1	1
2.5MDJA-53R/*	2,500	120/240	50	3	1	1
2.5MDJA-53CR/*	2,500	120/240	50	E	1	1
3.0MDJA-1R/*	3,000	120	60	2	1	1
3.0MDJA-2R/*	3,000	240	60	2	1	1
3.0MDJA-3R/*	3,000	120/240	60	3	1	1
3.0MDJA-3CR/*	3,000	120/240	60	E	1	1
2.5MDJA-51R4/*	2,500	120AC/32DC	50	2	1	2
3.0MDJA-1R/*	3,000	120AC/32DC	60	2	1	2
3.0MDJA-1R4/*	3,000	120AC/32DC	60	2	1	2
2.5MDJA-224R/*	2,500	24DC	DC			3
3.0MDJA-232R/*	3,000	32DC	DC			4

- * - The Specification Letter advances (A to B, B to C, etc.) with manufacturing changes.
- E - Generating set is reconnectable for 120 volt 2 wire, 240 volt 2 wire or 120/240 volt 3 wire service.
- ★ - New model designations shown, begin during 1969. Previous designations did not use a decimal in the KW rating. EXAMPLE: 2.5MDJA was formerly 205MDJA and 3.0MDJA was formerly 3MDJA.

STANDARD PARTS SECTION

This section contains parts applicable to models listed in the generator set data table.

CYLINDER HEAD, VALVE AND ROCKER



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
4	*INSERT, VALVE SEAT		
	110-1268	2	*Standard
	110-1268-02	2	.002" Oversize
	110-1268-05	2	.005" Oversize
	110-1268-10	2	.010" Oversize
	110-1268-25	2	.025" Oversize
5	110-1320	1	*Valve, Intake
6	110-1278	1	*Valve, Exhaust, Stellite
7	110-1221	2	*Spring, Valve
8	110-1220	2	*Retainer, Valve Spring
9	110-0858	4	*Lock, Valve Spring Retainer
10	110-0859	2	Cap, Valve Stem
11	509-0132	1	*Seal, Oil, Intake Valve (Includes Retainer Rings)
12	ARM, ROCKER		
	115-0128	1	Exhaust
	115-0129	1	Intake
13	526-0130	1	*Washer, Flat - Oil Line Mounting (17.64 ID x 1 OD x 1.16" Thk)
14	115-0127	2	Ball, Rocker Arm
15	115-0150	2	Lock Nut, Rocker Arm
16	115-0152	2	*Stud, Rocker Arm
17	115-0149	2	Rod, Valve Push (Steel)
18	502-0281	1	*Connector Assembly
19	115-0147	1	Guide, Push Rod
20	115-0188	1	Cover, Rocker (Includes Parts Marked †)
21	120-0595	1	*Line, Oil, Rocker Cover
22	115-0160	1	Gasket, Rocker Cover
23	110-1264	2	Screw, Cylinder Head (Special)
24	800-0501	4	Screw, Cylinder Head (Special)
25	526-0174	4	Washer, Flat (406" ID x 781" OD x 1345" Thk)
26	520-0608	2	*Stud, Exhaust Manifold
27	403-0671	1	Bolt, Lifting
28	809-0042	1	*Screw, Machine - Round Head - Oil Line, Rocker Cover (#10 x 5/16")
29	110-0546	1	Gasket, Glow Plug
30	KIT, GLOW PLUG (Includes Gasket)		
	333-0106	1	Key 1, 12 Volt
	333-0107	1	Key 3, 24 Volt
	333-0112	1	Key 2, 4, 32 Volt
31	110-1512	1	Arm, Decompression Release
32	110-1444	1	*Pin, Decompression Release
33	516-0090	1	*Pin, Roll (3/16 x 1-3/8")
34	110-1356	1	Spring, Decompression Release
35	518-0207	1	Ring, Retainer, Decompression Release
36	815-0252	1	Screw, Machine - Slotted Set - Decompression Release (1.4-20 x 1")
37	870-0134	1	Pin, Decompression Release
38	110-1511	1	Washer, Decompression Release (Not used on early models with cast iron arm)
39	110-0879	2	Screw, Rocker Cover Mounting (Special)
40	850-0045	2	Washer, Lock (5/16")
41	862-0003	1	Nut, Hex (3/8")
42	813-0096	2	*Screw, Machine - Round Head (#10-32 x 1 1/4")
43	850-0030	2	*Washer, Lock (#10)
44	309-0156	1	Switch, High Temperature Cut-off

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	110-2954	1	Head Assembly, Cylinder - Complete (Includes Parts Marked †)
1	110-1675	1	*Head (Includes Valve Guides and Valve Seats)
2	110-1294	1	Gasket, Head
3	*GUIDE, VALVE		
	110-1501	2	*Standard
	110-1501-01	2	.001" Oversize

† - Parts Included in 110-2954 Cylinder Head Assembly
 † - Parts Included in 115-0188 Rocker Cover Assembly.

This diagram illustrates the exploded view of a mechanical assembly, likely a pump or motor component. The parts are numbered as follows:

- Top Section (Pump/Motor Head):** Includes parts 1, 3, 4, 7, 11, 18, 31, 32, 33, 34, 38, 49, 53, 54, and 58. A sub-assembly labeled 18A is shown with parts 20 and 21.
- Intermediate Section (Body/Flange):** Includes parts 2, 5, 6, 8, 9, 10, 12, 13, 15, 16, 17, 22, 23, 24, 25, 26, 27, 42, 43, 47, 48, and 50.
- Bottom Section (Base/Mounting):** Includes parts 14, 19, 28, 29, 30, 35, 36, 37, 39, 40, 41, 44, 45, 46, and 51.

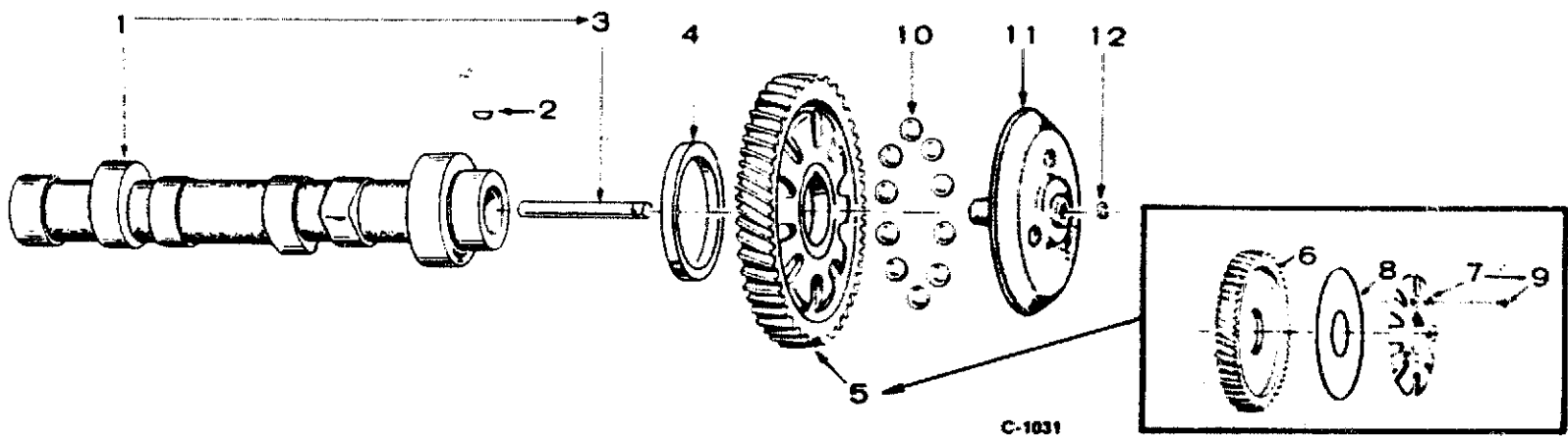
The diagram shows the relative positions and assembly sequence of these components, with lines indicating the path of assembly.

CYLINDER BLOCK AND OIL BASE

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	110-1357	1	Block Assembly, Cylinder (Includes Parts Marked *)	29	WASHER, MOUNTING RUBBER - SPEC A AND B		
2	101-0337	1	*Plate, Bearing (Less Bearing and Pins)	526-0181	4	Lower (17/32 x 2-7/8 x 1/8" Thk)	
3	101-0386	1	Gasket and Shim Kit - Rear Bearing Plate	526-0182	4	Upper (17/32 x 2-7/8 x 1/4" Thk)	
4	BEARING, PRECISION CRANKSHAFT			30	402-0328	4	*Bushing, Spacer - Vibration Mount - Begin Spec C
	101-0359	2	*Standard	31	517-0059	3	*Plug, Expansion - Cylinder Block
	101-0359-02	2	.002" Undersize	32	123-1202	1	Screen, Breather - Begin Spec R
	101-0359-10	2	.010" Undersize	33	505-0117	1	Seal, "O" Ring - Begin Spec R
	101-0359-20	2	.020" Undersize	34	123-0951	1	Clamp, Breather - Begin Spec R
	101-0359-30	2	.030" Undersize	35	CUSHION, VIBRATION (Cone Shaped) - BEGIN SPEC C		
5	516-0072	2	*Pin, Thrust Washer	402-0284	2	Engine End	
6	104-0420	2	*Washer, Crankshaft Thrust (Special)	402-0285	2	Generator End	
7	101-0363	1	*Bearing, Precision Cam, Front - Standard Only	36	402-0282	4	*Snubber, Shock Mounting - Begin Spec C
8	101-0365	1	*Bearing, Precision Cam, Rear - Standard Only	37	526-0014	4	*Washer (29/64" ID x 1-1/2" OD x 1/8" Thk) - Only With Cone Shaped Cushion
9	120-0572	1	*Tube, Crankcase Oil	38	505-0054	1	Plug (1/4") - Water Drain
10	517-0053	1	*Plug, Camshaft Opening	39	402-0300	4	*Cup, Cushion Retaining
11	TAPPET, VALVE			40	PAN, DRIP		
	115-0195	2	*Begin Spec R	405-1400	1	Begin Spec C	
	115-0132	2	Spec A through Q	41	405-1265	2	Clamp, Drip Pan Hold-down
12	509-0086	1	Seal, Crankshaft - Rear (In Gasket Kit #168-0091)	42	800-0050	6	Screw, Cap - Hex Head - Oil Base Mounting (3/8-16 x 1")
13	805-0019	6	*Bolt, Place (3/8-16 x 1-1/4") - Bearing Plate	43	850-0050	6	Washer, Lock (3/8)
14	TUBE, OIL FILL			44	850-0055	4	*Washer, Lock (7/16) - Begin Spec C
	123-0724	1	Spec A through R	45	800-0081	4	*Screw, Cap - Hex Head - Cushion Mounting - Begin Spec C (7/16-14 x 3-1/2")
	123-1084	1	Begin Spec S	46	526-0198	2	*Washer, Flat (5/8" ID x 1-1/2" OD x 1/16" Thk) - Begin Spec C
15	123-0667	1	Gasket, Oil Fill Tube	47	800-0026	2	Screw, Cap - Hex Head - Oil Fill Tube Mounting (5/16-18 x 3/4")
16	123-0716	1	Cap and Indicator	48	850-0045	2	Washer, Lock (5/16")
17	123-0191	1	Gasket, Cap	49	809-0035	1	Screw, Machine - Round Head - Breather Clamp (#8 x 3/4")
18	123-0954	1	Cap and Valve Assembly, Breather - Begin Spec R	50	800-0026	3	Screw, Cap - Hex Head - Fill Tube to Filter Adapter (5/16-18 x 3/4")
18A	CAP, BREATHER			51	850-1045	3	Washer, Lock (5/16")
	123-0458	1	Spec A Only	52	526-0245	6	Washer, Flat - Rear Bearing Plate (.391 ID x .625 OD x .0598" Thk)
	123-0787	1	Spec B through P	53	123-1153	1	Cup & Holder, Baffle - Begin Spec R
19	TUBE, BREATHER			54	123-1201	1	Retainer, Breather Screen - Begin Spec R
	123-0645	1	Spec A through Q	402-0302	4	Hardware Package, Mounting (Includes Parts Marked *)	
	123-0952	1	Begin Spec R				
20	123-0315	1	Valve, Breather - Spec A through Q				
21	FILTER, BREATHER TUBE						
	123-1283	1	Keys 1,2				
	123-0865	1	Keys 3,4				
22	BASE, OIL						
	102-0488	1	Spec A and B				
	102-0541	1	Begin Spec C				
23	102-0459	1	Gasket, Base				
24	505-0056	1	Plug (1/2")				
25	505-0014	1	Coupling (1/2")				
26	505-0002	1	Nipple (1/2" x 3")				
27	516-0141	2	Pin, Dowel - Gear Cover Locating				
28	CUSHION, VIBRATION CENTER FLANGE - SPEC A AND B						
	402-0242	2	Engine End				
	402-0244	2	Generator End				

- * - Parts Included in Mounting Hardware Package
- * - Parts Included in Cylinder Block Assembly

CAMSHAFT



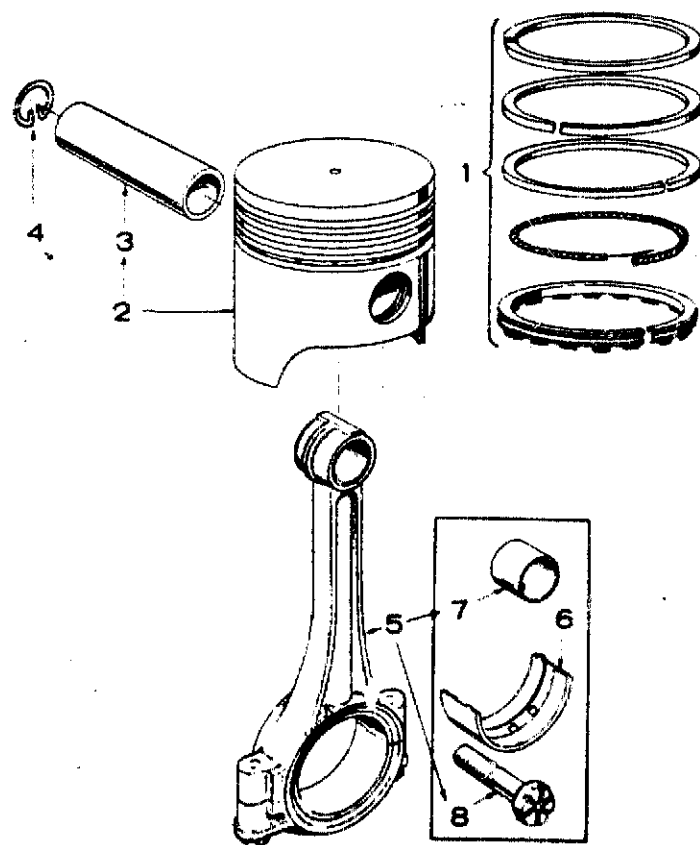
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	CAMSHAFT - INCLUDES CENTER PIN		
	105-0248	1	Spec A through Q
	105-0299	1	Begin Spec R
2	515-0001	1	Key, Camshaft Gear or Distributor Gear
3	150-0075	1	Pin, Center
4	105-0205	1	Washer, Thrust
5	105-0218	1	Gear Assembly, Camshaft (Includes Parts Marked *)
6	105-0465	1	*Gear, Camshaft

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
7	150-1842	1	Kit, Spacer (Includes Parts Marked †)
8	150-0773	1	*Plate, Governor Ball
9	815-0506	3	†*Screw, Governor Ball Spacer (Special)
10	510-0046	10	Ball, Fly - Governor
11	150-0775	1	Cup, Governor
12	150-0078	1	Ring, Snap - Center Pin

* - Parts Included in 105-0218 Gear Assembly.

† - Parts Included in 150-1842 Spacer Kit.

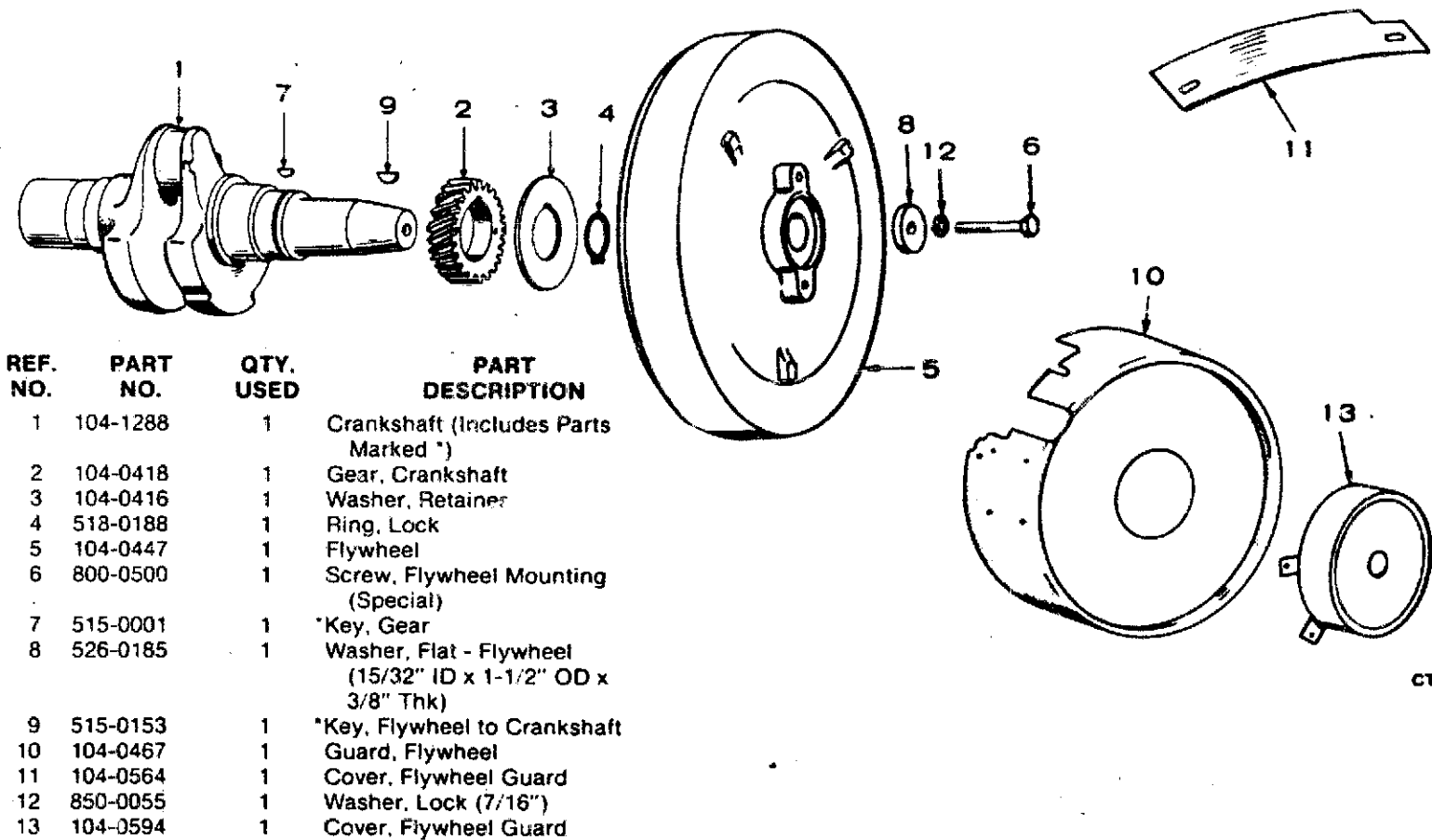
PISTON AND ROD



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	RING SET		
	113-0130	1	Standard
	113-0130-05	1	.005" Oversize
	113-0130-10	1	.010" Oversize
	113-0130-20	1	.020" Oversize
	113-0130-30	1	.030" Oversize
	113-0130-40	1	.040" Oversize
2	PISTON AND PIN (Includes Pin Retainer Rings) (Includes Parts Marked *)		
			Spec A through N
	112-0173	1	Standard
	112-0173-10	1	.010" Oversize
	112-0173-20	1	.020" Oversize
	112-0173-30	1	.030" Oversize
	112-0173-40	1	.040" Oversize
			Begin Spec P
	112-0175	1	Standard
	112-0175-05	1	.005" Oversize
	112-0175-10	1	.010" Oversize
	112-0175-20	1	.020" Oversize
	112-0175-30	1	.030" Oversize
	112-0175-40	1	.040" Oversize
3	112-0093	1	Pin, Piston
4	112-0085	2	*Ring, Retaining - Pin
5	114-0168	1	Rod Assembly, Connecting (Forged)
6	BEARING HALF - CONNECTING ROD		
	114-0164	2	Standard
	114-0164-02	2	.002" Undersize
	114-0164-10	2	.010" Undersize
	114-0164-20	2	.020" Undersize
	114-0164-30	2	.030" Undersize
7	114-0170	2	Bushing, Piston Pin - Connecting Rod
8	805-0012	2	Bolt (Special)

* - Parts Included in 112-0173 Piston and Pin Assembly.
 † - Parts Included in 112-0175 Piston and Pin Assembly.

CRANKSHAFT AND FLYWHEEL

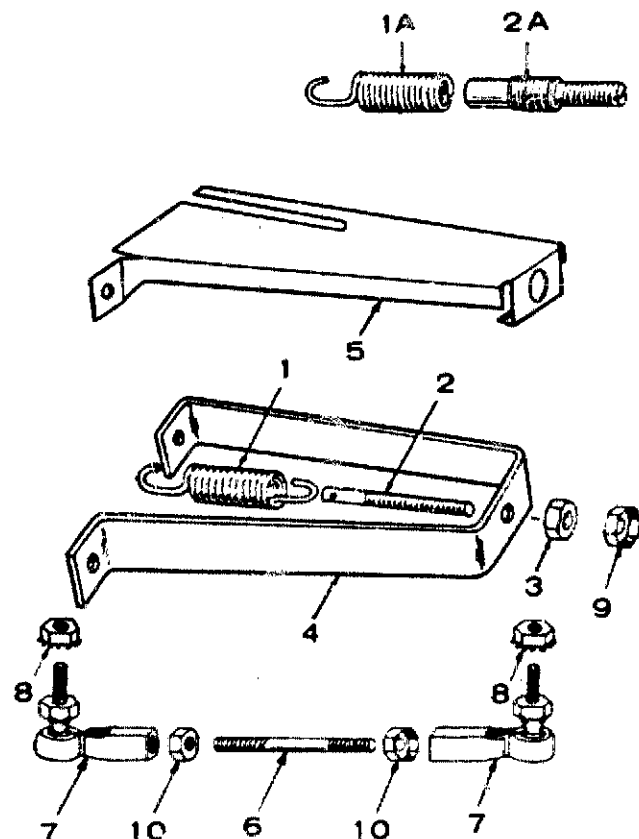


CT-1021

- Parts Included in 104-1288 Crankshaft Kit.

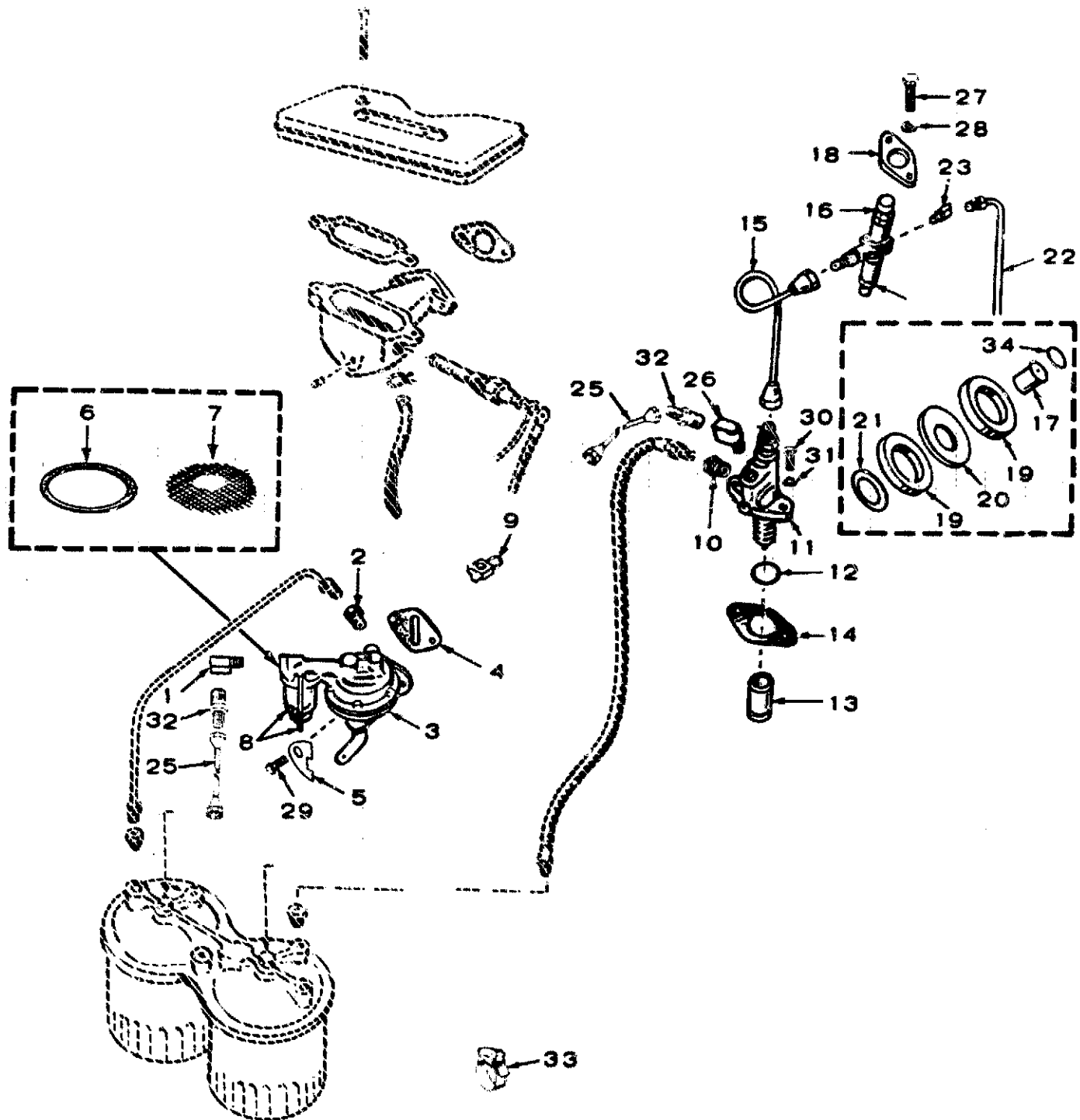
GOVERNOR

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	150-1084	1	Spring - Begin Spec R
1A	150-0821	1	Spring - Spec A through Q
2	150-1082	1	Stud, Adjusting - Begin Spec R
2A	150-0822	1	Stud, Adjusting - Spec A through Q
3	NUT, ADJUSTING STUD		
	104-0091	1	Spec A through Q (Special)
	862-0003	1	Begin Spec R (Special)
4	BRACKET ASSEMBLY		
	150-0810	1	Spec A through Q
	150-1103	1	Begin Spec R
5	150-0823	1	Cover, Governor Bracket - Spec A through Q
6	LINK, GOVERNOR		
	150-0883	1	Spec A through Q
	150-1201	1	Begin Spec R
7	JOINT, BALL		
	150-0974	2	Spec A through Q
	150-0939	2	Begin Spec R
8	870-0131	2	Nut, Hex - W/ET - Joint Arm (10-32)
9	870-0130	1	Nut, Lock (3/8-24)
10	870-0053	2	Nut, Hex - Governor Link - Begin Spec R (10-32)



FS-1042

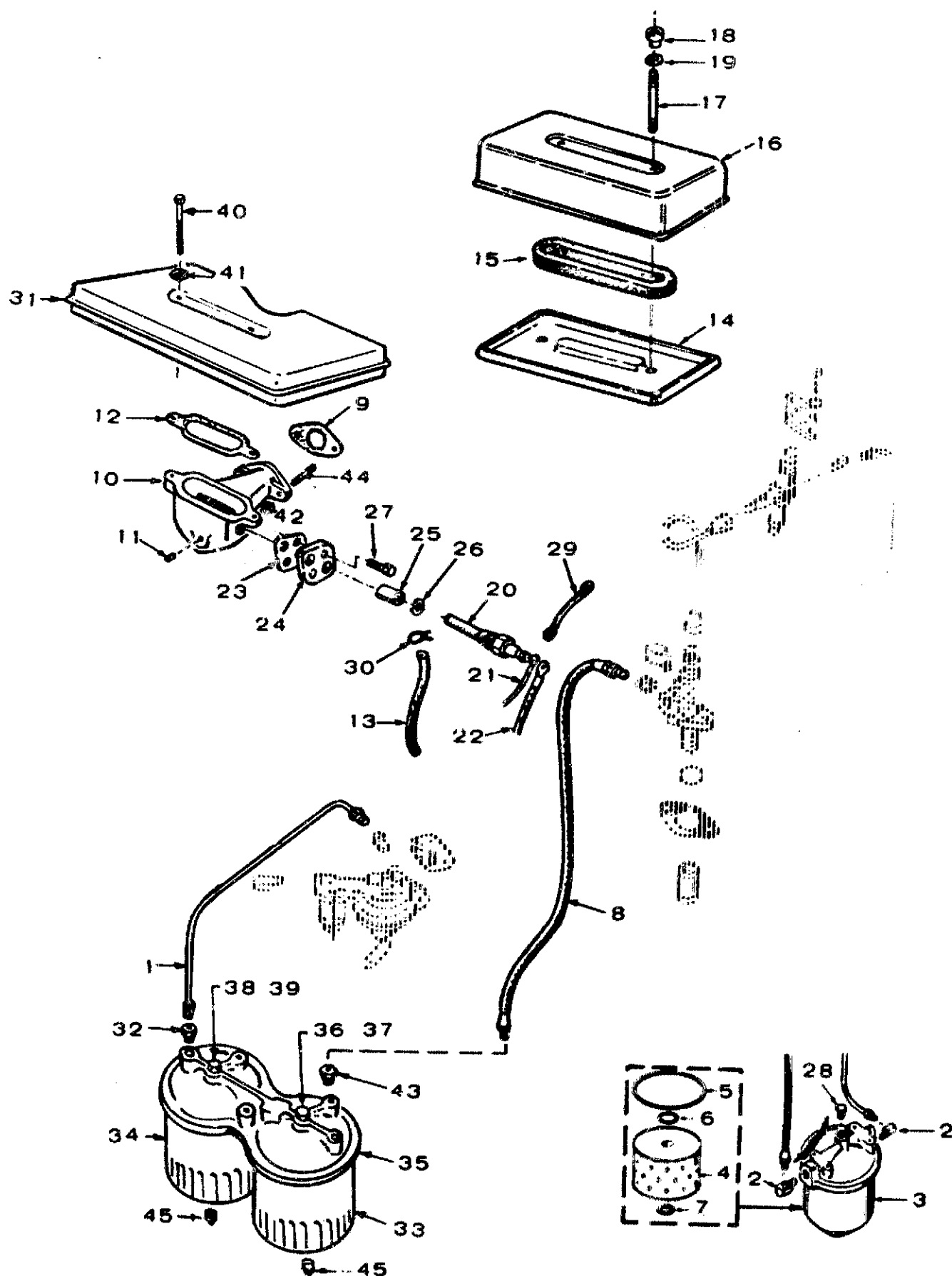
FUEL PUMP AND INJECTION SYSTEM



FUEL PUMP AND INJECTION SYSTEM

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	149-1047	1	Repair Kit, Fuel Pump (Includes Diaphragm and Gaskets)	16	147-0136	1	Nozzle and Holder Assembly
1	ELBOW, INVERTED MALE			17	147-0134	1	Nozzle Only, Component of Nozzle and Holder Assembly
	502-0002	1	Through Spec T	18	147-0141	1	Flange, Injection Nozzle Hold-down
	502-0065	1	(45°) Begin Spec U	19	147-0044	2	Shield, Nozzle Heat (Steel)
2	502-0065	1	Elbow (45°), Inverted Male, Fuel Pump Outlet	20	147-0043	1	Gasket, Heat Shield (Asbestos)
3	149-1339	1	Pump, Fuel Transfer (Includes Mounting Gasket)	21	110-0419	1	Gasket, Shield to Head (Copper)
4	149-0792	1	Gasket, Pump Mounting	22	LINE, NOZZLE FUEL RETURN		
5	149-1307	2	Washer, Flange - Pump Mounting		149-0958	1	Spec A Only
6	149-0517	1	Gasket, Fuel Pump Bowl		149-0947	1	Begin Spec B
7	149-0463	1	Screen, Fuel Transfer Pump	23	502-0065	1	Elbow, Inverted, 45°, Nozzle (Fuel Return Line)
8	149-1964	1	Kit, Fuel Filter (Bowl & Bail)	25	501-0242	2	Line, Fuel - 24" (Also order 2, #502-0576 Adapter for Replacement on Spec A through T)
9	502-0041	1	Elbow, Injection Pump Inlet - Spec A Only	26	147-0183	1	Valve, Check - Begin Spec B
10	502-0033	1	Connector, Injection Pump Inlet - Begin Spec B	27	114-0171	2	Screw, Nozzle Mounting (Special)
11	PUMP, INJECTION			28	526-0122	4	Washer, Flat (11/32" ID x 23/32" OD x 10 Ga. Thk)
	147-0167	1	Spec A Only (For replacement order 147-0180 Pump, 502-0033 Control, 149-0947 Line and Instructional Sheet E 154)	29	800-0027	2	Screw, Cap - Hex Head - Transfer Pump Mounting (5/16-18 x 7/8")
	147-0180	1	Begin Spec B	30	800-0194	2	Screw, Cap - Hex Head - Injection Pump Mounting (5/16-18 x 1-3/8")
12	509-0101	1	Seal, "O" Ring - Injection Pump to Crankcase	31	850-0045	2	Washer, Lock (5/16)
13	115-0166	1	Tappet, Injection Pump	32	502-0576	2	Adapter, Fuel Line - Begin Spec U
14	147-0172	1	Shim Kit, Injection Pump Mounting	33	503-0183	2	Clamp, Hose
15	149-0936	1	Line, Injection Pump to Nozzle	34	147-0243	1	Gasket, Nozzle Tip

AIR CLEANER AND FUEL FILTER



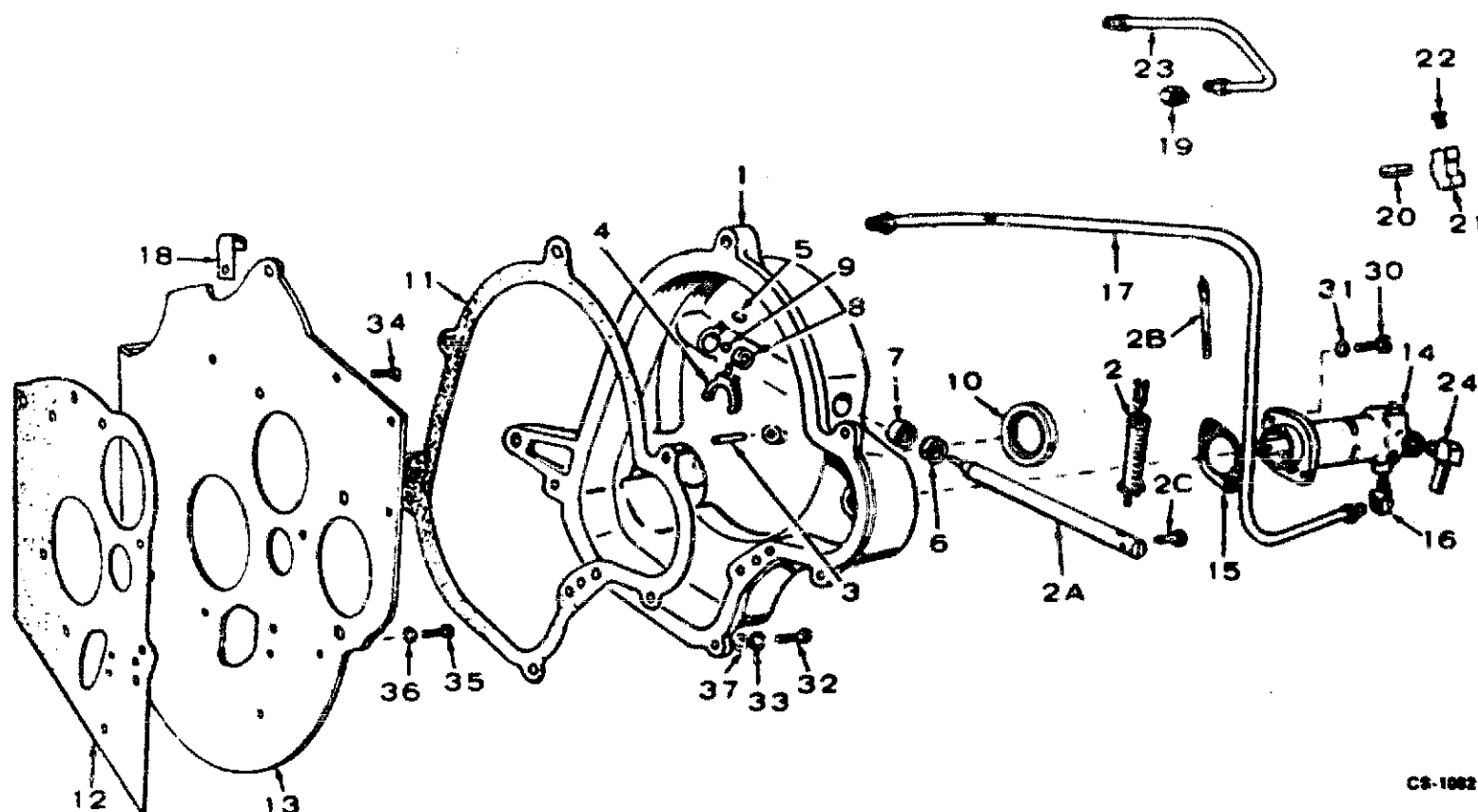
FS-1196

AIR CLEANER AND FUEL FILTER

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	LINE, PUMP TO SECONDARY FILTER		
	501-0032	1	Spec A through R
	149-1191	1	Begin Spec S
2	ELBOW, SECONDARY FILTER TO LINE - SPEC A THROUGH R		
	502-0041	1	Inlet
	502-0054	1	Outlet
3	149-0408	1	Filter, Secondary, Includes Cartridge (NOTE: Bleed Plug 149-0769 is also available) - Spec A through R
4	149-0428	1	Cartridge, Secondary Fuel Filter - Spec A thru R
5	149-0456	1	Gasket, Secondary Filter, Bowl to Cover - Spec A through R
6	149-0455	1	Gasket, Secondary Filter, Cartridge to Head - Spec A through R
7	149-0493	1	Gasket, Secondary Filter, Cartridge to Retainer - Spec A through R
8	501-0103	1	Line, Fuel, Secondary Filter to Injection Pump
9	141-0281	1	Gasket, Air Cleaner Adapter to Engine
10	ADAPTER, AIR CLEANER		
	140-0804	1	Key 1,2
	140-0816	1	Key 4
	140-0817	1	Key 3
11	505-0180	1	Plug, Pipe (1/4"), Air Cleaner Adapter and Intake Manifold
12	140-0584	1	Gasket, Air Cleaner
13	HOSE, BREATHER		
	123-0769	1	Spec A Only
	503-0479	1	Spec B through P
	503-0560	1	Begin Spec R
14	140-0607	1	Pan, Air Cleaner - Spec A through C
15	140-0606	1	Element, Air Cleaner, Foam Type - Spec A through C
16	140-0594	1	Cover, Air Cleaner - Spec A through C
17	520-0621	2	Stud, Air Cleaner - Spec A through C
18	871-0070	2	Nut, Knurled, Brass - Spec A through C
19	140-0602	2	Washer, Rubber - Spec A through C
20	HEATER, MANIFOLD - INCLUDES GASKET		
	154-0712	1	Key 1,2 - 12 Volt
	154-0712	3	Key 4 - 32 Volt
	154-0712	2	Key 3 - 24 Volt
21	LEAD, GLOW PLUG TO AIR HEATER		
	336-1313	1	Round Type Terminal
	336-1505	1	Blade Type Terminal
22	336-1416	1	Lead, Air Heater to Solenoid in Control

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
23	GASKET, MANIFOLD HEATER - INSULATED		
	140-0706	1	Keys 2,3,4 - Spec A through U
	140-1704	1	Begin Spec V - Keys 2,3,4
24	PLATE, MANIFOLD HEATER MOUNTING		
	140-0705	1	Keys 2,3,4 - Spec A through U
	140-1703	1	Begin Spec V - Keys 2,3,4
25	526-0015	2	Washer, Flat (9/32" ID x 9/16" OD x 1/16" Thk)
26	508-0102	2	Washer, Insulator (Mica) - Manifold Heater Mounting
27	114-0023	2	Screw, Cap - Manifold Heater Mounting (Special)
28	149-0769	1	Plug, Air Bleed, Secondary Filter - Spec A through R
29	LEAD, JUMPER - AIR HEATER		
	334-0031	1	Keys 2,4
	336-1408	1	Key 3
30	503-0171	2	Clamp, Breather Hose
31	140-0803	1	Resonator - Begin Spec D
32	502-0003	1	Connector, Secondary Fuel Filter Inlet - Begin Spec S
33	122-0325	1	Filter, Fuel - Primary - Begin Spec S
34	122-0326	1	Filter, Fuel - Secondary - Begin Spec S
35	149-1185	1	Adapter, Fuel Filter - Begin Spec S
36	526-0068	1	Washer, Flat - Secondary Fuel Filter Mounting - Begin Spec S (29/64" ID x 3/4" OD x 1/16" Thk)
37	801-0074	1	Screw, Cap - Hex Head - Secondary Fuel Filter Mounting - Begin Spec S (7/16-20 x 1-3/4")
38	526-0066	1	Washer, Flat - Primary Fuel Filter Mounting - Begin Spec S (25/64" ID x 9/16" OD x 1/16" Thk)
39	801-0053	1	Screw, Cap - Hex Head - Primary Fuel Filter Mounting - Begin Spec S (3/8-24 x 1-3/4")
40	800-0011	2	Screw, Cap - Hex Head - Resonator Mounting (1/4-20 x 2")
41	850-0040	2	Washer, Lock (1/4)
42	870-0137	2	Nut, Huglock (5/16) - Adapter Mounting
43	502-0003	1	Connector, Secondary Fuel Filter Outlet - Begin Spec S
44	STUD, AIR CLEANER ADAPTER MOUNTING		
	520-0011	1	Keys 1,2,4 (1-7/16" lg)
	520-0752	1	Keys 1,2,4 (1-15/16" lg)
	520-0011	2	Key 3 (1-7/16" lg)
45	502-0080	2	Plug, Fuel Filter Drain - Begin Spec S

GEARCASE AND WATER PUMP



CS-1002

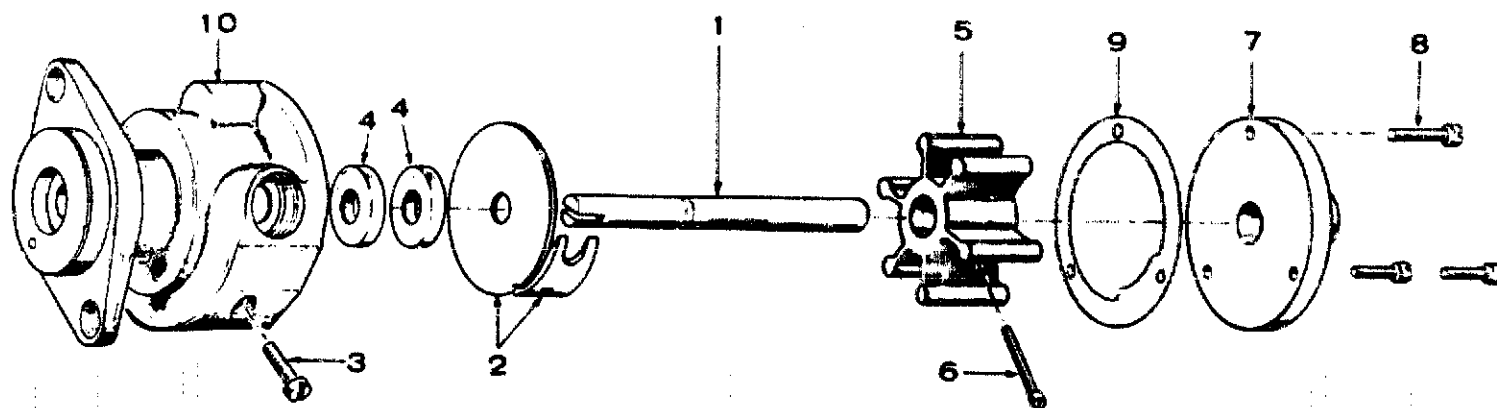
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	103-0267	1	Gearcase Assembly, Complete (Includes Parts Marked *)
2	150-1089	1	Arm, Governor - Begin Spec R
2A	150-0838	1	*Shaft, Governor
2B	150-0856	1	Arm, Governor - Spec A through Q
2C	815-0176	1	*Screw, Hex Head - Machine (#8-32 x 1/2")
3	516-0111	1	*Pin, Roll - Governor Cup Stop
4	150-0777	1	*Yoke, Governor
5	518-0129	1	*Ring, Yoke
6	509-0088	1	*Seal, Oil
7	510-0048	1	*Bearing (1/2"), Governor Shaft
8	510-0082	1	*Bearing (1/4"), Governor Shaft
9	510-0043	1	*Ball, Bearing - Governor Shaft Thrust
10	509-0087	1	*Seal, Oil
11	103-0251	1	Gasket, Gearcase
12	103-0218	1	Gasket, Backplate
13	103-0228	1	Backplate
14	PUMP, WATER (See Separate Illustration for Parts)		
	132-0059	1	Spec A through D (No Longer Available. Order Kit 131-0267 and Water Line 130-0628, for Units with Heat Exchanger Order Water Line 130-0627)
	131-0152	1	*Begin Spec E (For Replacement Order Kit 131-0267)
	131-0267	1	Replacement Kit (Includes Parts Marked †)
15	131-0127	1	†Gasket, Water Pump Mounting
16	502-0076	1	Elbow, Water Pump (Use 502-0304 for Models with Keel Cooling)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
17	LINE, WATER PUMP TO BLOCK		
	130-0509	1	Spec A through D
	130-0628	1	Begin Spec E
18	130-0511	1	Clamp, Water Line
19	502-0074	1	Elbow, Inverted Male - Water Line to Block
20	502-0047	1	Nipple, Close - Brass - Water Pump - Spec A through D
21	502-0157	1	Tee, Water Pump - Spec A through D
22	502-0153	1	Plug, Brass - Water Pump Tee - Spec A through D
23	130-0535	1	Line, Water Outlet - Prior to Serial #04827 (During Spec E)
24	502-0304	1	Elbow, Water Pump Inlet - Begin Spec E
30	800-0006	2	†Screw, Cap - Hex Head - Pump Mounting (1/4-20 x 7/8")
31	850-0040	2	†Washer, Lock (1/4")
32	SCREW, CAP - HEX HEAD - GEAR CASE MOUNTING		
	800-0028	1	5/16-18 x 1"
	800-0030	4	5/16-18 x 1-1/4"
33	850-0045	5	Washer, Lock (5/16")
34	815-0347	2	Screw Flat Head - Gearcase Backplate Mounting (1/4-20 x 1/2")
35	800-0026	1	Screw, Cap - Hex Head - Gearcase Backplate Mounting (5/16-18 x 3/4")
36	850-0045	1	Washer, Lock - Gearcase Backplate Mounting (5/16")
37	526-0115	5	Washer, Flat (11/32" ID x 11/16" OD x 1/16" Thk)

† - Parts Included in 131-0267 Water Pump Kit.

* - Parts Included in 103-0267 Gearcase Assembly.

WATER PUMP PARTS (132-0059) NOTE: Spec A through D

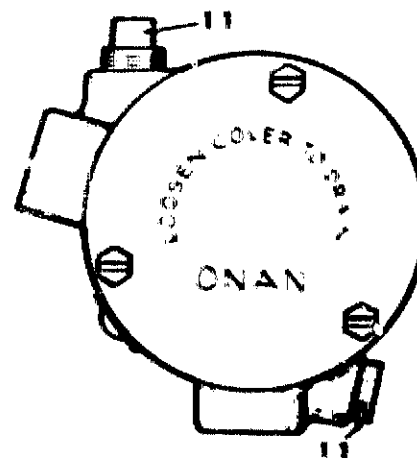
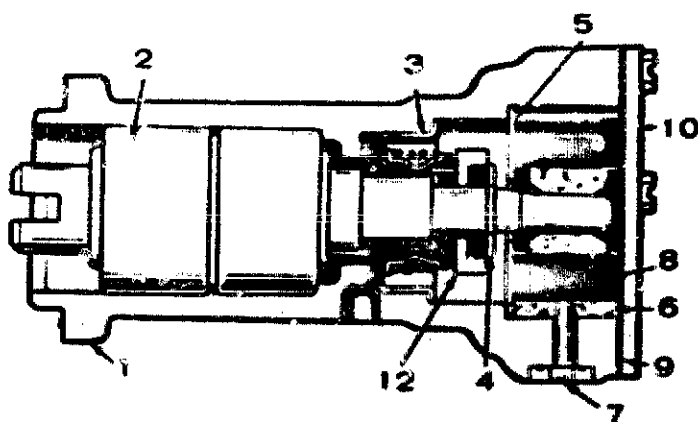


CS-1094

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	132-0069	1	Kit, Water Pump Service (Includes Parts Marked *)
1	132-0060	1	Shaft, Water Pump
2	132-0061	1	Plate Assembly, Cam & Wear
3	132-0062	1	Screw, Cam and Plate
4	132-0063	2	*Seal, Water Pump
5	132-0064	1	*Impeller, Water Pump - Includes Screw
6	132-0065	1	*Screw, Impeller
7	132-0066	1	Cover, Water Pump End
8	132-0062	3	*Screw, End Cover
9	132-0068	1	*Gasket, End Cover
10			Body, Water Pump (Not Sold Separately)

* - Parts Included in 132-0069 Repair Service Kit.

WATER PUMP PARTS (131-0152) NOTE: Begin Spec E



CS-1005

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	131-0152	1	Pump, Water Begin Spec E
	131-0179	1	Kit, Water Pump Repair (Includes Parts Marked *)
1		1	Body, Water Pump (Not Sold Separately)
2	131-0154	1	Bearing & Shaft Assembly
3	131-0169	1	*Seal Assembly
4	518-0221	1	*Retaining Ring
5	131-0158	1	*Wear Plate, Rear

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
6	131-0159	1	*Cam
7	815-0283	4	Screw, Slotted, Hex Head - Brass (#3-32 x 1.2") (1) *Cam, (3) Cover
8	131-0160	1	*Impeller
9	131-0161	1	*Gasket, Cover
10	131-0162	1	*Cover, Pump
11	502-0080	2	Plug, Pipe
12	131-0202	1	*Seat Assembly

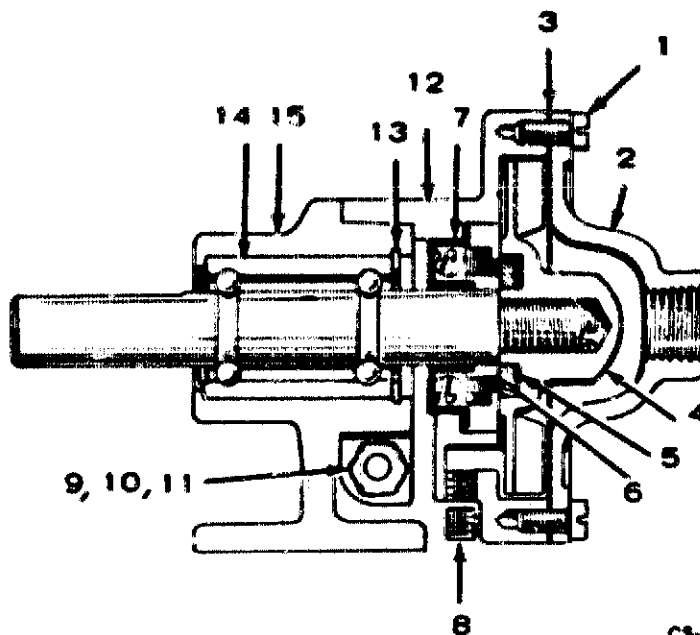
* - Parts Included in 131-0179 Repair Kit.

WATER PUMP PARTS (132-0110)

NOTE: Heat Exchanger or Keel Cooling Only

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	132-0110	1	Pump, Water
	132-0111	1	Kit, Repair (Includes Parts Marked *)
1	132-0113	6	*Screw, Cap - Hex Head Slotted
2	132-0137	1	Cover, Water Pump
3	132-0112	1	*Gasket
4	132-0114	1	*Impeller
5	132-0092	1	*Seat
6	132-0091	1	*Ring, Wear
7	132-0101	1	*Seal Assembly
8	132-0141	1	Plug, Pipe - Socket Drive
9	132-0138	1	Screw, Cap - Hex Head
10	132-0139	1	Washer, Lock - Spring
11	132-0140	1	Nut, Hex
12	132-0136	1	Body, Pump (Not Sold Separately)
13	132-0132	1	Ring, Retaining
14	132-0089	1	*Bearing, & Shaft Assembly
15	132-0142	1	Pedestal, Pump (Not Sold Separately)

* - Parts Included in 132-0111 Repair Kit.



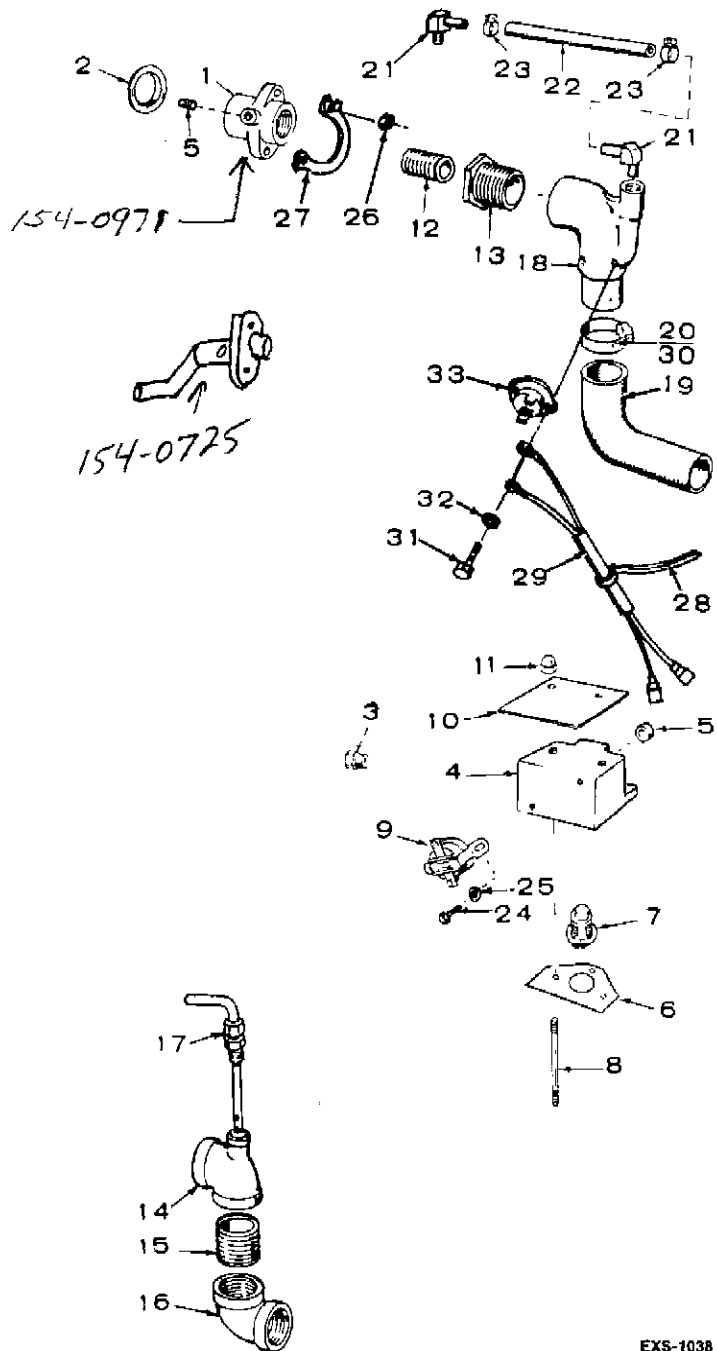
CS-1003

903-6223 (JUNE 1981)

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EXHAUST MANIFOLD AND THERMOSTAT

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	MANIFOLD, EXHAUST		
	154-0725	1	Spec A through Serial #04826 (During Spec E)
	154-0971	1	Begin Serial #04827 (During Spec E)
2	154-1057	1	Gasket, Exhaust Manifold to Head
3	502-0103	1	Connector, Inverted Male - Thermostat Cover, Outlet - Spec A through Serial #04826 (During Spec E)
4	COVER, THERMOSTAT		
	309-0144	1	Sets WITHOUT Keel Cooling
	309-0161	1	Sets WITH Keel Cooling
5	505-0274	2	Plug (1/8") - (1) Thermostat Cover, (1) Exhaust Manifold
6	309-0145	1	Gasket, Thermostat Cover
7	309-0130	1	Thermostat
8	520-0143	2	Stud, Thermostat Cover
9	309-0156	1	Switch, High Temperature Cut-off - Mounted in Thermostat Cover
10	309-0154	1	Cover, Thermostat Switch - Sets with Switch Mounted on Cover
11	869-0002	2	Nut, Acorn (5/16-24) - Thermostat Cover Stud
12	505-0624	1	*Nipple (1 x 2"), Exhaust - Begin Serial #04827 (During Spec E)
13	505-0617	1	*Bushing, Reducer (1-1/4 x 1") - Exhaust - Begin Serial #04827 (During Spec E)
14	505-0485	1	Tee, Reducer - Exhaust - Begin Serial #04827 (During Spec E) through July 1969 (Spec S)
15	505-0625	1	Nipple, Close (1-1/4") - Exhaust - Begin Serial #04827 (During Spec E) through July 1969 (Spec S)
16	505-0493	1	Elbow (1-1/4 x 90°) - Exhaust - Begin Serial #04827 (During Spec E) through July 1969 (Spec S)
17	154-0894	1	Tube, Water Injection - Exhaust - Begin Serial #04827 (During Spec E) through July 1969 (Spec S)
18	155-1058	1	*Tee, Reducing - Exhaust (With provision for water line) - Begin August 1969 (Spec S)
19	503-0575	1	Elbow, Exhaust Hose - Begin August 1969 (Spec S)
20	503-0465	1	Clamp, Hose - Exhaust Elbow - Begin August 1969 (Spec S)
21	502-0237	2	Elbow, Brass - Water Hose Adapter - Begin August 1969 (Spec S)
22	503-0586	1	Hose, Rubber (1/2 x 36") - Water Inlet and Outlet
23	503-0446	2	Clamp, Water Hose
24	813-0096	2	Screw, Round Head - Machine - Switch Mounting (10-32 x 1/4")
25	850-0030	2	Washer, Lock (#10)
26	110-0445	2	Nut, Hex (Special)
27	154-1665	1	Tab, Lock - Exhaust Manifold
28	332-1794	1	*Tie, Cable
29	338-1413	1	*Harness, Wiring
30	503-0365	2	*Clamp, Hose



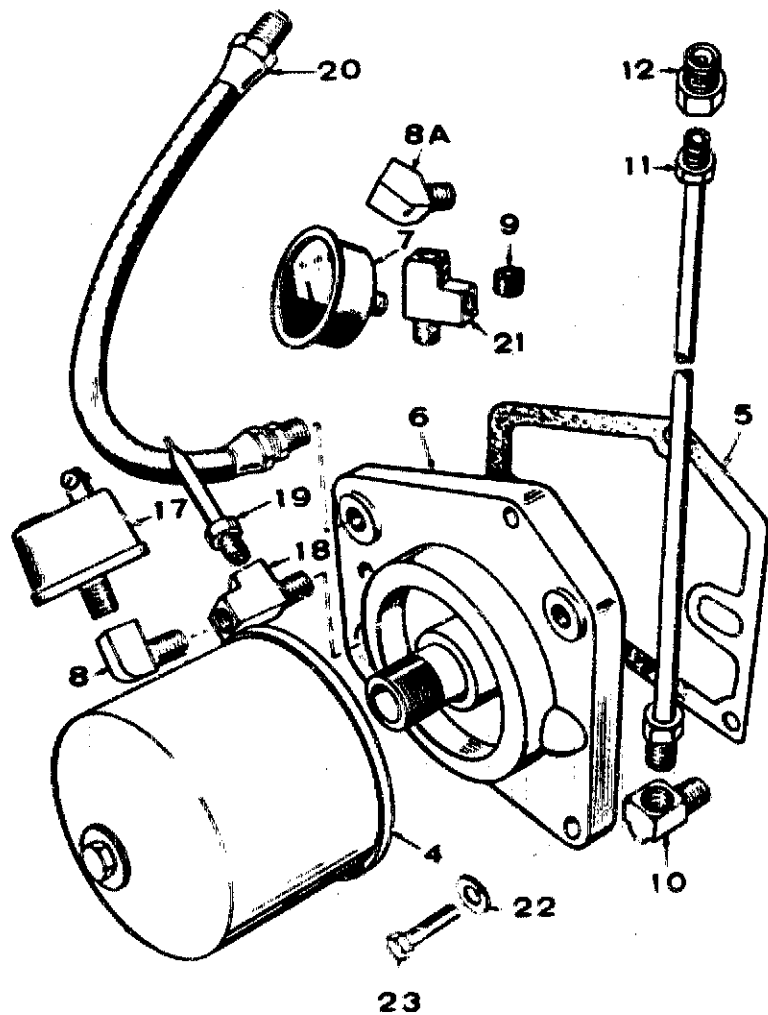
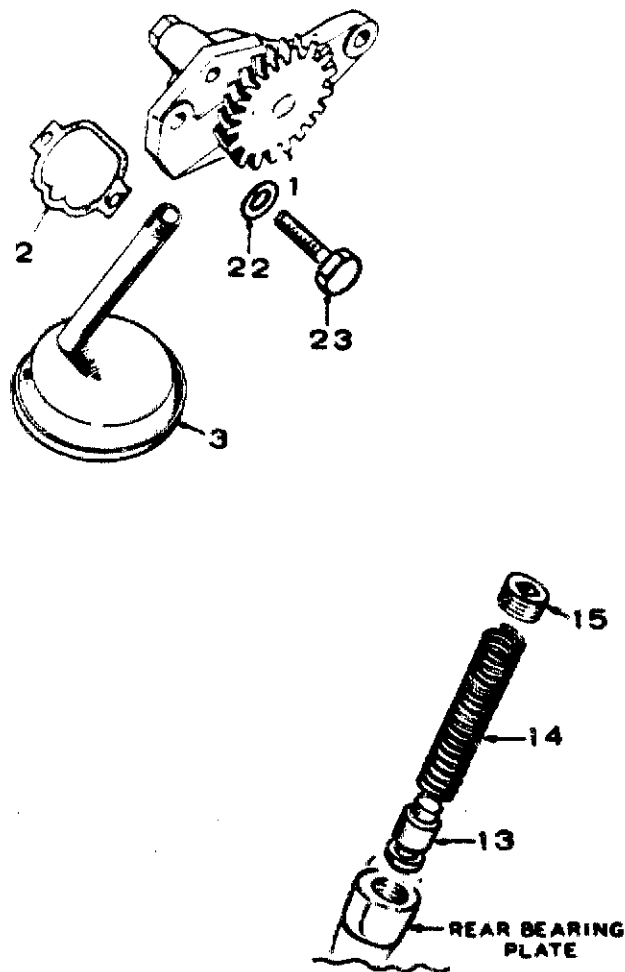
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
31	815-0410	2	*Screw, Hex - Machine (6-32 x 1/4")
32	854-0008	2	*Washer, Lock (IT #6)
33	309-0420	1	*Switch, High Exhaust Temperature - Mounted in Exhaust Elbow
	309-0421	1	Kit, High Temperature Switch - During Spec V (Includes Parts Marked *)

* - Parts Included in 309-0421 High Temperature Switch Kit.

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OIL SYSTEM



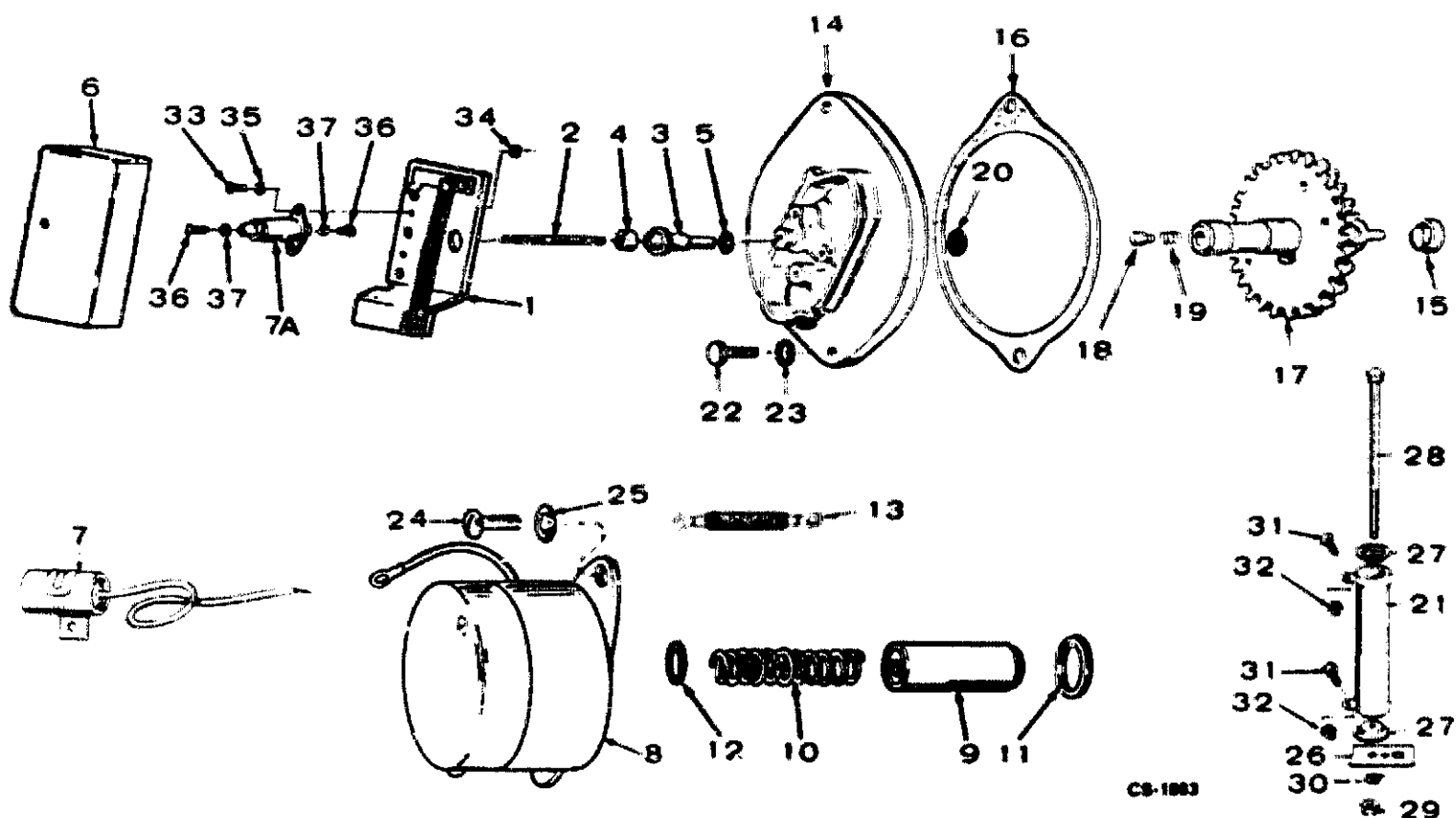
LS-1043

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	120-0547	1	Pump Assembly, Oil
2	120-0580	1	Gasket Kit, Pump
3	120-0551	1	Cup, Oil Pump Intake
4	122-0185	1	Filter
5	122-0188	1	Gasket, Adapter
6	122-0182	1	Adapter, Oil Filter
7	193-0006	1	Gauge, Oil Pressure
8	502-0020	1	Elbow, Street (90°) - Low Oil Pressure Switch
8A	502-0053	1	Elbow, Street (45°) - Oil Gauge Mounting
9	505-0274	2	Plug, 1/8" (1) Adapter, (1) Oil Gauge Bracket
10	ELBOW, OIL LINE TO FILTER ADAPTER		
	502-0019	1	Spec A through Q
	502-0037	1	Begin Spec R
11	LINE, ADAPTER TO CYLINDER HEAD		
	120-0562	1	Spec A through Q
	120-0622	1	Begin Spec R
12	CONNECTOR, RESTRICTED - CYLINDER HEAD		
	502-0235	1	Spec A through Q
	502-0281	1	Begin Spec R

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
13	20-0539	1	Valve, Oil By-Pass
14	120-0555	1	Spring, By-Pass Valve
15	505-0274	1	Plug, 1/8" Oil By-Pass
17	309-0104	1	Switch, Low Oil Pressure Cut-off
18	502-0255	1	Tee, Restricted, Air Trap Tube
19	120-0598	1	Tube, Air Trap, Switch
20	501-0001	1	Line, Oil Gauge - Begin Spec S
21	502-0001	1	Tee, Oil Gauge Mounting - Begin Spec S
22	WASHER, LOCK		
	850-0045	2	Oil Pump Mounting (5/16")
	850-0045	3	Oil Filter Adapter Mounting (5/16")
23	SCREW, CAP - HEX HEAD		
	800-0030	2	Oil Pump Mounting (5/16-18 x 1")
	800-0026	3	Oil Filter Adapter Mounting (5/16-18 x 3/4")

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ANTI-FLICKER STOP SOLENOID AND WATER PUMP DRIVE



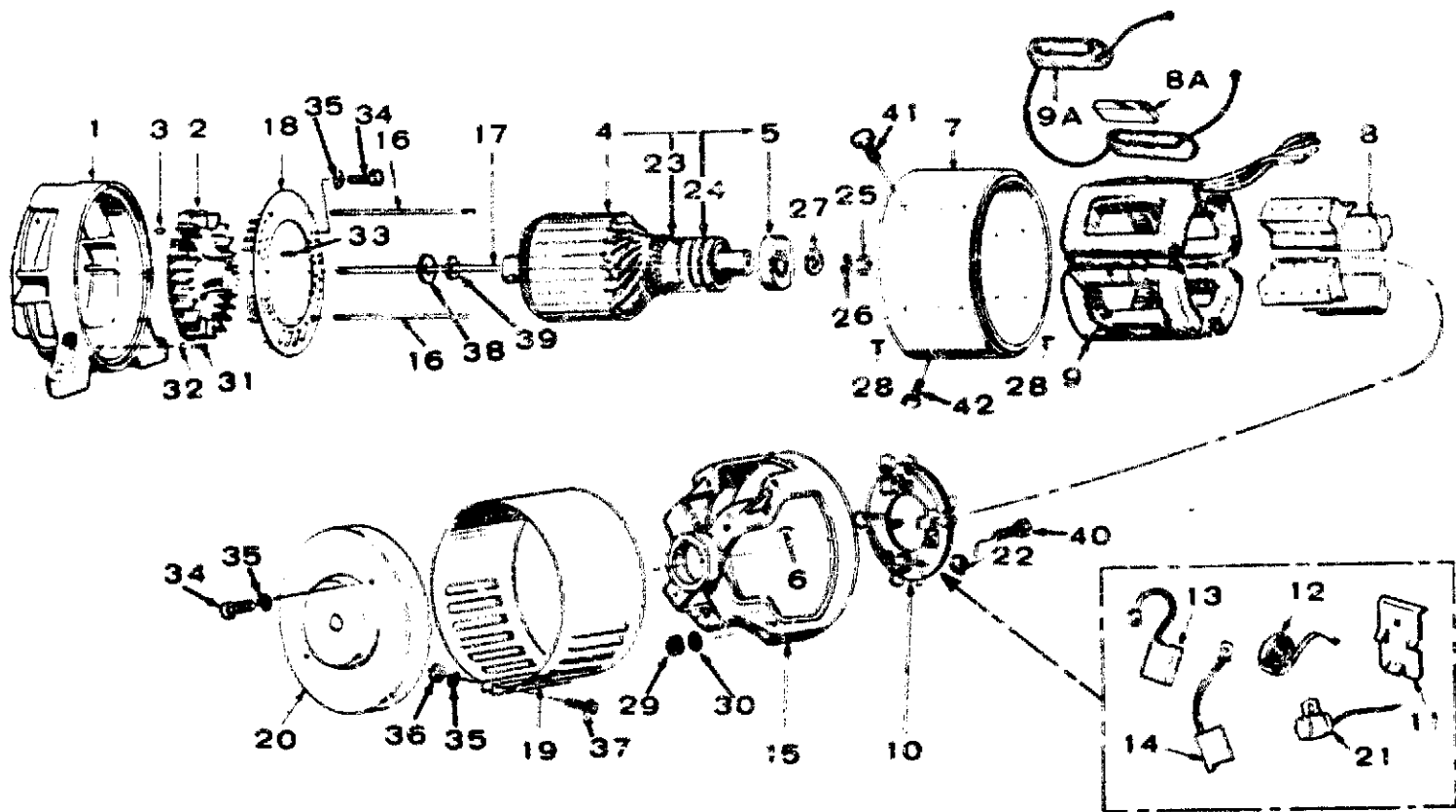
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	166-0316	1	Point Set, Anti-Flicker - Keys 1,2,4
2	160-0800	1	Plunger, Breaker - Keys 1,2,4
3	160-0799	1	Guide, Breaker Plunger - Keys 1,2,4
4	160-0382	1	Diaphragm, Breaker Plunger - Keys 1,2,4
5	509-0091	1	Seal, "O" Ring
6	COVER, ANTI-FLICKER		
	160-0796	1	Key 3
	160-0918	1	Keys 1,2,4
7	312-0057	1	Condenser, 10 Mfd (Mounts in Control Box, Also in Control Group) - Keys 1,2
7A	312-0083	1	Condenser, Feed Thru - Keys 1,2,4
8	SOLENOID, DECOMPRESSION RELEASE		
	307-0628	1	12 Volt, Spec A thru S, Key 1
	307-1098	1	12 Volt, Begin Spec T, Key 1
	307-0680	1	32 Volt, Spec A thru S, Keys 2,4
	307-1100	1	32 Volt, Begin Spec T, Keys 2,4
	307-0668	1	24 Volt, Spec A thru S, Key 3
	307-1099	1	24 Volt, Begin Spec T, Key 3
9	306-0167	1	Plunger, Solenoid (Includes Pin)
10	306-0166	1	Spring, Solenoid Plunger
11	509-0018	1	Seal, "O" Ring - Stop Solenoid
12	307-0736	1	Gasket, Solenoid Mounting
13	337-0051	1	Strap, Ground - Solenoid to Engine
14	131-0142	1	Plate, Water Pump Drive Shaft Bearing
15	160-0720	1	Spacer, Bearing Plate
16	160-0721	1	Gasket, Bearing Plate
17	GEAR & SHAFT ASSEMBLY, WATER PUMP DRIVE		
	191-0361	1	Spec A through D
	191-0552	1	Begin Spec E
18	160-0774	1	Plunger, Thrust

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
19	160-0773	1	Spring, Thrust Plunger
20	160-0806	1	Disc, Thrust Plunger
21	RESISTOR, DECOMPRESSION RELEASE SOLENOID - BEGIN SPEC T		
	304-0003	1	For 12 Volt Solenoid - Keys 1,2
	304-0110	1	For 32 Volt Solenoid - Key 4
	304-0078	1	For 24 Volt Solenoid - Key 3
22	800-0052	2	Screw, Hex Head - Cap - Bearing Plate Mounting (3/8-16 x 1-1/2")
23	850-0050	2	Washer, Lock (3/8")
24	812-0150	2	Screw, Round Head - Machine - Solenoid Mounting (1/4-20 x 5/8")
25	850-0040	2	Washer, Lock (1/4")
26	304-0704	1	Bracket, Resistor Mounting - Begin Spec T
27	304-0427	2	Washer, Centering - Begin Spec T
28	812-0165	1	Screw, Round Head - Machine - Begin Spec T (1/4-20 x 4-1/2")
29	862-0001	1	Nut, Hex (1/4-20) - Begin Spec T
30	856-0006	1	Washer, Lock (1/4") - Begin Spec T
31	815-0201	2	Screw, Round Head - Brass W/ET (8-32 x 3/8") - Begin Spec T
32	860-0008	2	Nut, Hex (8-32) - Begin Spec T
33	812-0059	2	Screw, Round Head - Machine (6-32 x 1/4") - Keys 1,2,4
34	860-0006	2	Nut, Hex (6-32) - Keys 1,2,4
35	853-0003	4	Washer, Lock (ET) (#6) - Keys 1,2,4
36	811-0096	2	Screw, Round Head - Machine (10-32 x 1/4") - Keys 1,2,4
37	854-0010	2	Washer, Lock (#10) - Keys 1,2,4

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GENERATOR



G-1102

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
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1	ADAPTER		
	231-0113	1	Begin Spec C
2	205-0065	1	Blower, Generator
3	515-0006	1	Key, Blower
4	ARMATURE ASSEMBLY (Includes Bearing and Blower)		
			Key 1
	201-1202	1	120 Volt, 50 Hertz
	201-1214	1	120/240 Volt, 50 Hertz (Non-Reconnectible)
	201-1236	1	120/240 Volt, 50 Hertz (Reconnectible)
	201-1116	1	120 Volt, 60 Hertz
	201-1178	1	120/240 Volt, 60 Hertz (Non-Reconnectible)
	201-1235	1	120/240 Volt, 60 Hertz (Reconnectible)
			Key 2
	201-1223	1	50 Hertz
	201-1206	1	50 Hertz
	201-1192	1	Key 3
	201-1216	1	Key 4
5	510-0047	1	Bearing, Ball - Armature
6	232-0596	1	Crip. Bearing Stop
7	FRAME ONLY, LESS COILS & POLE SHOES		
	210-0348	1	Keys 1,2
	210-0362	1	Keys 3,4
8	SHOE, POLE		
	221-0091	4	Keys 1,2
	221-0126	4	Keys 3,4
9	221-0129	2	Shoe, Pole, Interpole - Keys 3,4
10	COIL ASSEMBLY, FIELD, SET OF 4 COILS		
	222-1593	1	Key 1, Key 2 - 60 Hz
	222-1610	1	Key 2 - 50 Hz
	222-1608	1	Key 3
	222-1613	1	Key 4

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
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	9A		COIL ASSEMBLY, INTERPOLE, SET OF 2 COILS
			222-1607 1 Key 3
			222-1614 1 Key 4
	10		RIG ASSEMBLY, BRUSH (Includes Parts Marked E)
			Key 1
			212-0392 1 120 Volt & 240 Volt, 1 Phase
			212-0394 1 120/240 Volt (Non-Reconnectible)
			212-0415 1 120/240 Volt - Reconnectible (Replaces 212-0303 with 4 AC Brushes)
			212-0398 1 Key 2
			212-0116 1 Key 3
			212-0363 1 Key 4 (Includes Parts Marked *)
	11		SPRING, BRUSH
			212-1105 8 E120 Volt, 240 Volt (1 Phase) & 120AC/32DC Volt, Keys 1,2 - AC and DC
			212-1106 4 *Key 4 Commutator (DC)
			212-1105 4 E120/240 Volt, 1 Phase (Reconnectible), DC, Key 1
			212-1105 8 E120/240 Volt, 1 Phase (Reconnectible), AC, Key 1 - begin Spec V
			212-1123 4 120/240 Volt, 1 Phase (Reconnectible), AC, Key 1 - Spec A through C
			212-1105 4 E120/240 Volt, 1 Phase (Reconnectible), AC, Key 1 - Spec D through U
			212-1105 7 E120/240 Volt, 1 Phase (Non-Reconnectible), AC and DC
	12		212-1003 4 120/240 Volt, 1 Phase (Non-Reconnectible), DC, Key 1 - Spec A through C

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
12	212-1004	3	120/240 Volt, 1 Phase (Non-Reconnectible), AC, Key 1 - Spec A through C
12	212-1011	4	Key 3, Commutator (DC)
13	BRUSH, COMMUTATOR (DC)		Key 1
	214-0061	4	120 Volt, 240 Volt or 120/240 Volt (Reconnectible) - 1 Phase
	214-0030	4	120/240 Volt, 1 Phase (Non-Reconnectible) - Spec A through C
	214-0061	4	120/240 Volt, 1 Phase (Non-Reconnectible) - Begin Spec D
	214-0009	4	Key 2 - Spec A through C
	214-0083	4	Key 2 - Begin Spec D
	214-0061	4	Key 2 - Begin Spec U
	214-0018	4	Key 3
	214-0068	4	Key 4
14	BRUSH, COLLECTOR RING (AC)		Key 1
	214-0050	4	120 Volt & 240 Volt, 1 Phase
	214-0056	4	120/240 Volt, 1 Phase (Reconnectible) - Spec A through U
	214-0050	8	120/240 Volt, 1 Phase (Reconnectible) - Begin Spec V
	214-0079	3	120/240 Volt, 1 Phase (Non-Reconnectible) - Spec A through C
	214-0050	3	120/240 Volt, 1 Phase (Non-Reconnectible) - Begin Spec D
	214-0050	4	Key 2
15	BELL, END		Key 1
	211-0097	1	120 Volt & 240 Volt, 1 Phase
	211-0098	1	120/240 Volt, 1 Phase
	211-0097	1	Keys 2,3,4
16	520-0502	2	Stud, Generator Through
17	STUD, ARMATURE THROUGH		Key 1
	520-0491	1	120 Volt & 240 Volt, 1 Phase
	520-0525	1	120/240 Volt, 1 Phase
	520-0491	1	Keys 2,3,4
18	232-1256	1	Scroll, Generator Air
19	BAND, END BELL		Key 1
	234-0002	1	120 Volt & 240 Volt, 1 Phase
	234-0005	1	120/240 Volt, 1 Phase
	234-0002	1	Keys 2,3,4
20	211-0099	1	Cover, End Bell
21	CONDENSER		Key 1
	312-0058	1	AC, .1 Mfd, 120 Volt & 240 Volt, 1 Phase
	312-0058	2	AC, .1 Mfd, 120/240 Volt, 1 Phase (Non-Reconnectible)
	312-0058	2	AC, .1 Mfd, 120/240 Volt, 1 Phase (Reconnectible) NOTE: 60 Hertz used Qty. of 4 - Begin Spec D
	312-0027	1	DC, .5 Mfd, 120 Volt, 240 Volt & 120/240 Volt, 1 Phase
	312-0058	1	Key 2 AC, .1 Mfd
	312-0027	1	DC, .5 Mfd
	312-0017	2	Key 3, DC, .5 Mfd
	312-0017	1	Key 4 DC, .5 Mfd
	312-0027	1	DC, .5 Mfd

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
22	212-1214	4	Clamp, Brush Rig - Begin Spec D
23	COMMUTATOR (DC)		
	203-0127	1	Key 1
	203-0009	1	Key 2
	203-0058	1	Key 3
	203-0088	1	Key 4
24	COLLECTOR RING (AC)		Key 1
	204-0009	1	120 Volt & 240 Volt, 1 Phase
	204-0010	1	120/240 Volt, 1 Phase (Non-Reconnectible)
	204-0092	1	120/240 Volt, 1 Phase (Reconnectible)
	204-0009	1	Key 2
25	862-0004	1	Nut, Hex (7/16-14)
26	850-0055	1	Washer, Lock (7/16)
27	526-0032	1	Washer, Flat (29/64" ID x 7/8" OD x 1/16" Thk)
28	516-0103	2	Pin, Roll - Generator Frame (1/8 x 1/2")
29	862-0015	2	Nut, Hex (5/16-18) - Generator Through Stud
30	850-0045	2	Washer, Lock (5/16)
31	SCREW, HEX HEAD - CAP - GENERATOR ADAPTER MOUNTING		
	800-0050	2	3/8-16 x 1"
	800-0051	2	3/8-16 x 1-1/4"
32	850-0050	4	Washer, Lock (3/8)
33	515-0122	1	Key, Blower to Armature
34	SCREW, ROUND HEAD - MACHINE (10-32 x 3/8")		
	813-0098	2	End Bell Cover
	813-0098	3	Air Baffle
35	WASHER, LOCK (#10)		
	850-0030	2	End Bell Cover
	850-0030	3	Air Baffle
	850-0030	2	End Bell Band
36	870-0053	2	Nut, Hex - End Bell Band (10-32)
37	813-0104	2	Screw, Round Head - Machine End Bell Band (10-32 x 7/8")
38	518-0014	2	Ring, Blower Retaining
39	232-0029	1	Washer, Blower Retaining
40	800-0003	4	Screw, Cap - Hex Head (1/4-20 x 1/2")
41	114-0022	8	Screw, Cap - Hex Head (Special)
42	800-0030	4	Screw, Cap - Hex Head (5/16-18 x 1-1/4") - Keys 3,4

* - Parts Included in 212-0383 Brush Rig Assembly.

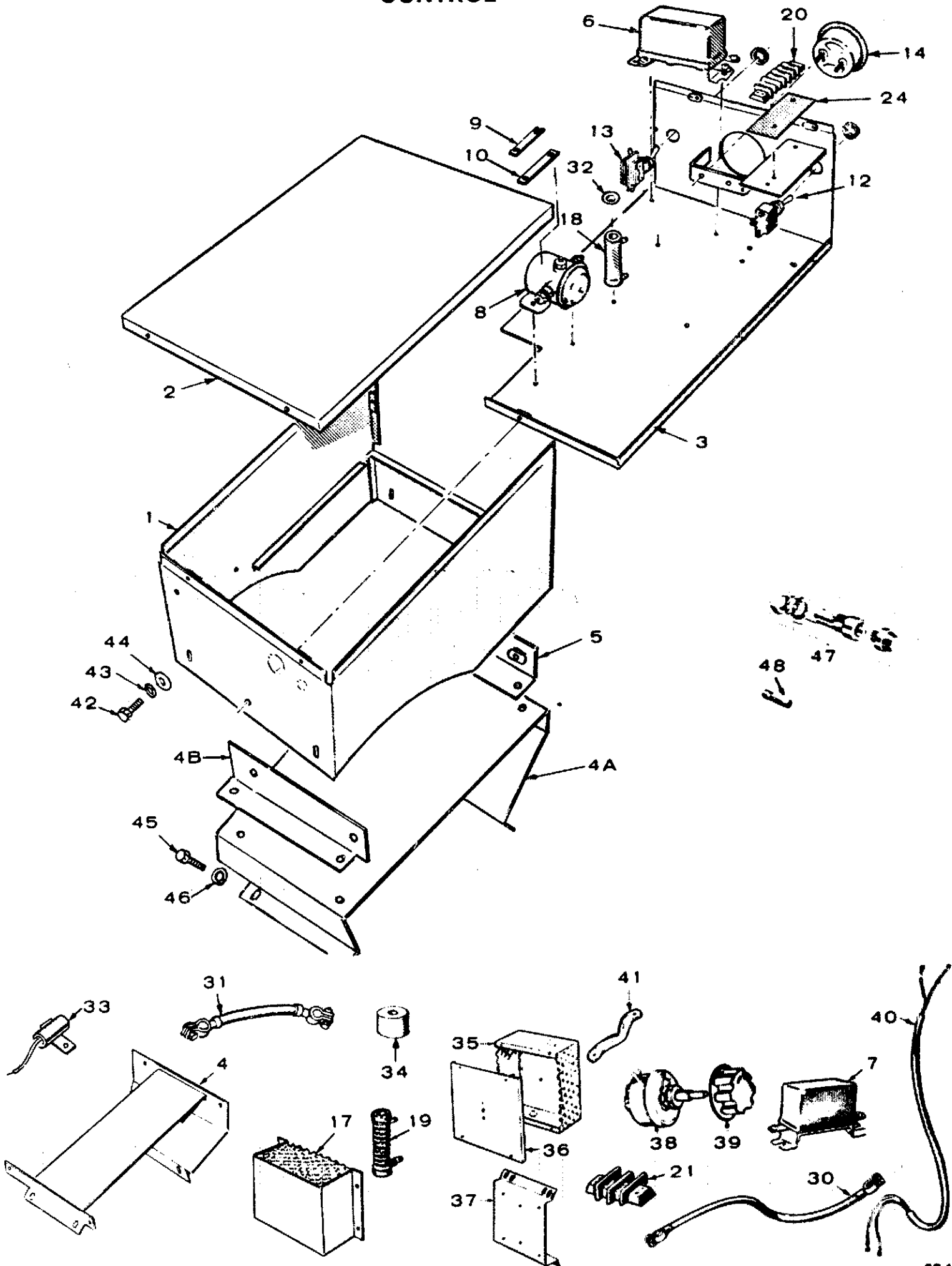
£ - Parts Included in 212-0392 Brush Rig Assembly.

Parts Included in 212-0394 Brush Rig Assembly.

Parts Included in 212-0398 Brush Rig Assembly.

Parts Included in 212-0415 Brush Rig Assembly.

CONTROL



SC-1172

CONTROL

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	301-2008	1	Box, Control
2	301-1963	1	Cover, Control Box
3	PANEL, CONTROL BOX		
	301-2009	1	Key 1,2
	301-2274	1	Key 3,4
4		1	Bracket, Control Box Mounting One Piece (Order 301-2424, 301-2425 and 301-2426)
4A	301-2424	1	Bracket, Control Box Mounting
4B	301-2425	1	Bracket, Control Box Mounting L.H.
5	301-2426	1	Bracket, Control Box Mounting R.H.
6	307-0004	1	Relay, Decompression Solenoid
7	RELAY, REVERSE CURRENT		
	307-0180	1	Key 1,2
	307-0007	1	Key 3
	307-0361	1	Key 4
8	SOLENOID, MANIFOLD HEATER AND START		
	307-1046	2	Key 1,2
	307-0061	2	Key 3,4
9	337-0089	2	Jumper, Manifold Heater and Start Solenoid - Key 4
10	332-0602	1	Jumper, Manifold Heater Solenoid to Start Solenoid
12	308-0154	1	Switch, Start Stop
13	SWITCH		
	308-0037	1	Manifold Heater - Key 3,4
	308-0007	1	Hi-Low Charge - Key 2
	308-0304	1	Manifold Heater - Key 1,2
14	AMMETER, CHARGE		
	302-1366	1	(5-0-5) Key 1,2 (Includes Parts Marked *)
	302-0064	1	(100-0-100) Key 3,4
15	302-0270	1	*Hardware Package (Not Shown)
17	301-2012	1	Cover, Resistor - Key 1,2
18	RESISTOR, FIXED		
	304-0032	1	15-Ohm, 100 Watt - Key 1,2
	304-0257	1	75-Ohm, 25 Watt - Key 4
	304-0011	1	50-Ohm, 25 Watt - Key 3
19	RESISTOR, ADJUSTABLE		
	304-0506	1	6-Ohm, 150 Watt - Key 1,2
	304-0175	1	1-Ohm, 50 Watt - Flicker - Key 1,2
20	332-0604	1	Block, Terminal (5 Place) - Remote Control - Key 1,2
20	332-0537	1	Block, Terminal (4 Place) - Remote Control - Key 2
20	332-0537	2	Block, Terminal (4 Place) - (1) Remote Control, (1) Terminal Load - Key 3,4

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
21	332-0609	1	Block, Terminal (2 Place) - Load - Key 1,2
24	STRIP, MARKER		
	332-0616	1	B+, 1,2,3,H - Key 1 (Use with 332-0604 Block)
	332-0554	1	F2,4,5,6 - Key 2,3,4
	332-0566	1	4 Place - (Use with 332-0537 Block) - Key 2,3,4
30	416-0077	2	Cable, Battery - Key 1,2
31	416-0004	1	Cable, Battery Jumper (Early Models) - Key 1,2
32	WASHER, RESISTOR CENTERING		
	304-0006	2	Key 1,2 (1-1/8" OD)
	304-0015	2	Key 1 (3/4" OD)
	304-0015	4	Key 2 (3/4" OD)
	304-0014	2	Key 3,4 (9/16" OD)
33	312-0057	1	Condenser (1.0 Mfd) Mounts in Control Box. Also in Anti-Flicker Group - Key 1,2
34	402-0078	4	Mount, Rubber - Control Box
35	301-2290	1	Box, Rheostat Mounting - Key 3,4
36	301-2291	1	Panel, Rheostat Box - Key 3,4
37	301-2129	1	Bracket, Rheostat Box Mounting - Key 3,4
38	RHEOSTAT		
	303-0046	1	Key 3 (10-Ohm, Model P)
	303-0010	1	Key 4 (8-Ohm, Model P)
39	303-0047	1	Knob, Rheostat - Key 3,4
40	338-0313	1	Harness, Wiring - Rheostat - Key 3,4
41	337-0036	1	Strip, Ground - Control Box to Generator
42	800-0024	4	Screw, Hex Head - Cap Control Box to Bracket (5/16-18 x 1/2")
43	850-0045	4	Washer, Lock (5/16")
44	526-0115	4	Washer, Flat (11/32 ID x 11/16 OD x 1/16" Thk)
45	800-0024	4	Screw, Hex Head - Cap Control Bracket to Frame (5/16-18 x 1/2")
46	850-0045	4	Washer, Lock (5/16")
47	321-0175	1	Fuse, Holder - Begin Serial No B780303391
48	321-0146	1	Fuse, 10 Amp

* - Parts included in 302-1366 Ammeter.

SERVICE KITS AND MISCELLANEOUS

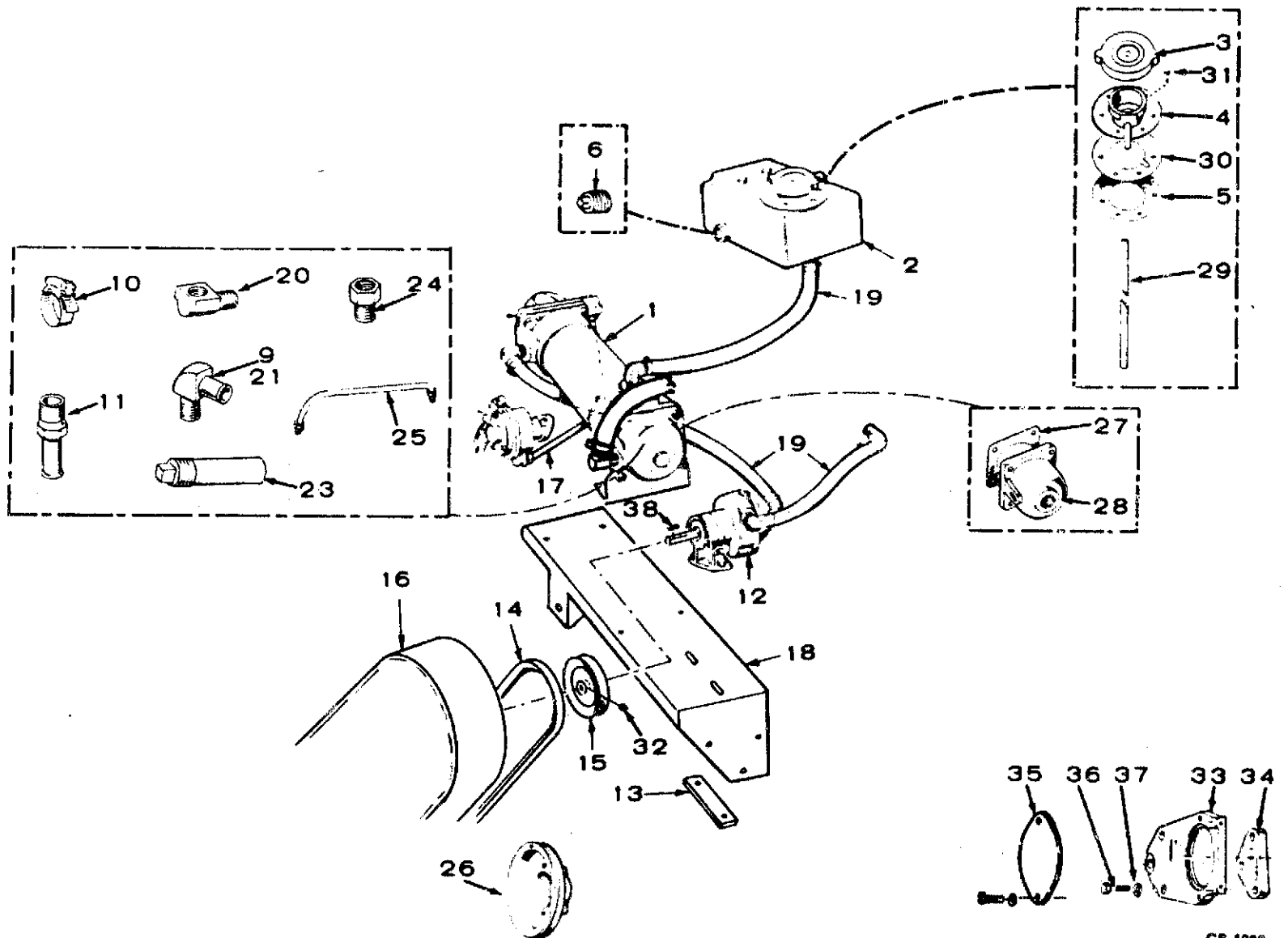
NOTE: For other kits, refer to the group for the part in question.

PART NO.	QTY. USED	PART DESCRIPTION
98-1807	1	Decal Kit
168-0091	1	Gasket Kit, Electric Generating Set
OVERHAUL KIT, ELECTRIC GENERATING SET		
522-0204	1	Spec A through D
522-0218	1	Spec E through R
522-0248	1	Begin Spec S
525-0216	1	Paint, Touch-Up Enamel (Marine White) 16 Ounce Pressurized Can

OPTIONAL PARTS SECTION

This section contains parts listing of factory installed options.
NOTE: options may not be applicable to all models; for field conversions additional parts are usually required.

HEAT EXCHANGER - OPTIONAL



CS-1080

HEAT EXCHANGER - OPTIONAL

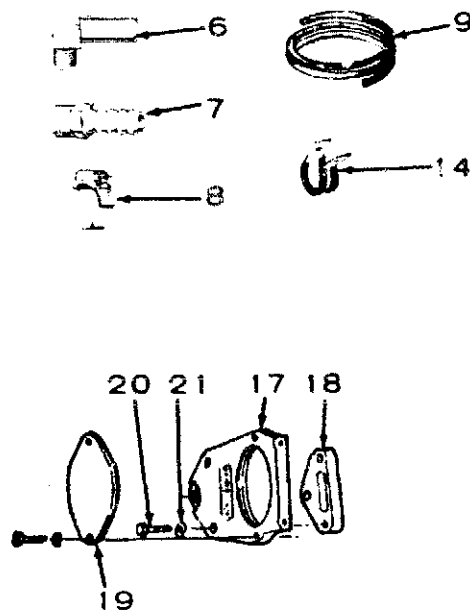
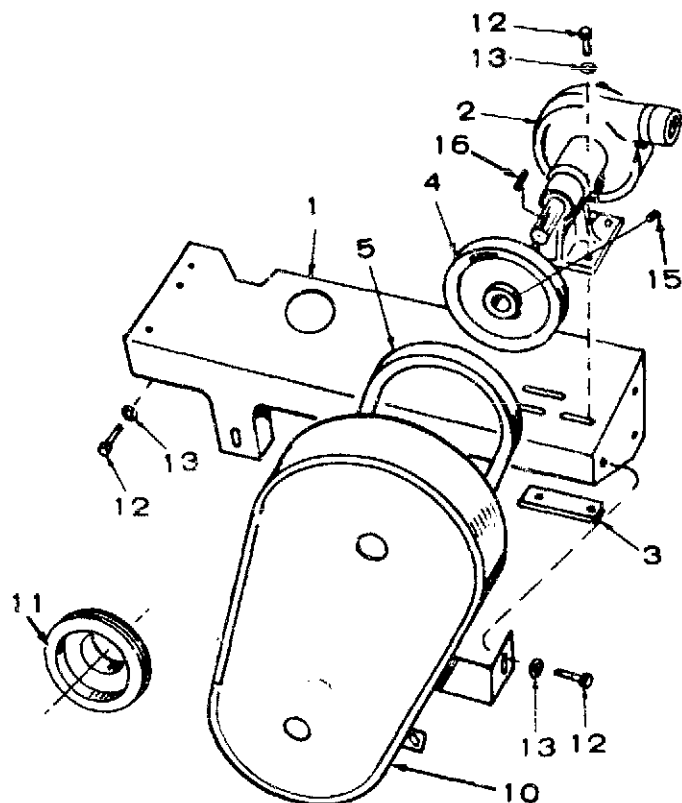
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	130-0514	1	Exchanger, Heat
2	130-0512	1	Tank, Expansion
3	130-0589	1	Cap, Pressure
4	130-0530	1	Neck and Adapter, Expansion Tank Cap
5	130-0519	1	Gasket, Neck and Adapter
6	505-0110	1	Plug, Pipe (3/8") - Expansion Tank
9	502-0237	7	Elbow, Brass - Rubber Hose Connection - NOTE: Quantity used is (4) Spec A and B, and (5) Prior to Serial #04827 (During Spec E)
10	503-0183	6	Clamp, Hose
11	502-C238	1	Nipple, Brass Hose - Expansion Tank Outlet (Also 1 used for Centrifugal Pump Inlet - Spec A and B)
12	132-0110	1	£Pump, Centrifugal Water - Less Pulley
13	131-0130	1	Bar, Pump Hold-down
14	511-0067	1	Belt, Centrifugal Water Pump
15	PULLEY, WATER PUMP		
	512-0134	1	Sets With Flat Area on Water Pump Shaft (Includes Parts Marked *)
	132-0252	1	Sets With Keyed Area on Water Pump Shaft (Includes Parts Marked *)
16	130-0591	1	Guard, Belt
17	LINE, WATER - RAW WATER PUMP TO HEAT EXCHANGER		
	130-0527	1	Spec A through D
	130-0627	1	Begin Spec E
18	BRACKET, HEAT EXCHANGER AND GOVERNOR SPRING		
	130-0587	1	Spec A through Q
	130-0692	1	Begin Spec R
19	503-0159	1	Hose, Rubber (1/2" ID x 34" - Total Length Required for all Hoses)
20	ELBOW, INVERTED MALE		
	502-0074	2	Heat Exchanger Inlet and Outlet - Spec A through Serial #04826 (During Spec E)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
21	502-0237	2	Elbow, Brass - Rubber Hose - (1) Heat Exchanger Outlet, (1) Exhaust Elbow - Begin Serial #04827 (During Spec E)
23	130-1340	1	Pencil Only, Zinc
24	502-0126	1	Connector, Male - Exhaust Manifold - Spec A through Serial #04827 (During Spec E)
25	130-0570	1	Line, Water - Heat Exchanger to Exhaust Manifold - Spec A through Serial #04827 (During Spec E)
26	104-0550	1	Pulley, Flywheel
27	130-0726	2	Gasket, End Bonnet - Heat Exchanger
28	130-0727	2	Bonnet, Heat Exchanger
29	503-0679	1	Hose, Overflow (13")
30	130-0892	1	Stiffener, Filler Neck
	130-0614	1	Conversion Kit, Heat Exchanger (Includes All Necessary Parts, Hardware, etc., for Field Installation)
31	821-0005	6	Screw, Lock - Neck Adapter
32	803-0062	1	*Screw, Set - Socket (5/16-18 x 5/16")
33	191-0512	1	Flange
34	191-0311	1	Spacer, Flange
35	191-0422	1	Cover, Flange
36	SCREW, CAP - HEX HEAD		
	800-0051	2	Cover, Mounting (3/8-16 x 1-1/4")
	800-0054	3	Flange & Spacer Mounting (3/8-16 x 2")
37	850-0050	5	Washer, Lock (Flange & Cover Mounting 3/8")
38	515-0249	1	Key, Square - Pulley to Water Pump

£ - See Separate Illustration for Component Parts.

* - Parts Included in 132-0252 & 512-0134 Water Pump Pulley Kit.

KEEL COOLING - OPTIONAL



CS-1081

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	BRACKET, PUMP AND GOVERNOR SPRING		
	130-0587	1	Spec A thru Q
	130-0692	1	Begin Spec R
2	132-0110	1	*Pump, Water - Less Pulley
3	131-0130	1	Bar, Pump Hold-down
4	PULLEY, WATER PUMP		
	512-0134	1	Sets With Flat Area on Water Pump Shaft (Includes Parts Marked †)
	132-0252	1	Sets With Keyed Area on Water Pump Shaft (Includes Parts Marked †)
5	511-0067	1	Belt, Water Pump Drive
6	502-0237	3	Elbow (Brass)
			(1) Pump, Outlet
			(1) Thermostat Cover
			(1) Block
7	502-0238	1	Nipple, Pump Inlet (Brass)
8	503-0183	2	Clamp, Hose
9	503-0434	1	Hose, Rubber - Pump to Block (1/2 ID x 8" Lg)
10	130-0591	1	Guard, Belt
11	104-0550	1	Pulley, Flywheel
12	SCREW, HEX HEAD - CAP		
	800-0003	4	Belt Guard Mounting (1/4-20 x 1/2")
	800-0026	2	Bracket to Starter Flange (5/16-18 x 3/4")
	800-0004	2	Bracket to Backplate (1/4-20 x 5/8")
	800-0005	2	Water Pump Mounting (1/4-20 x 3/4")

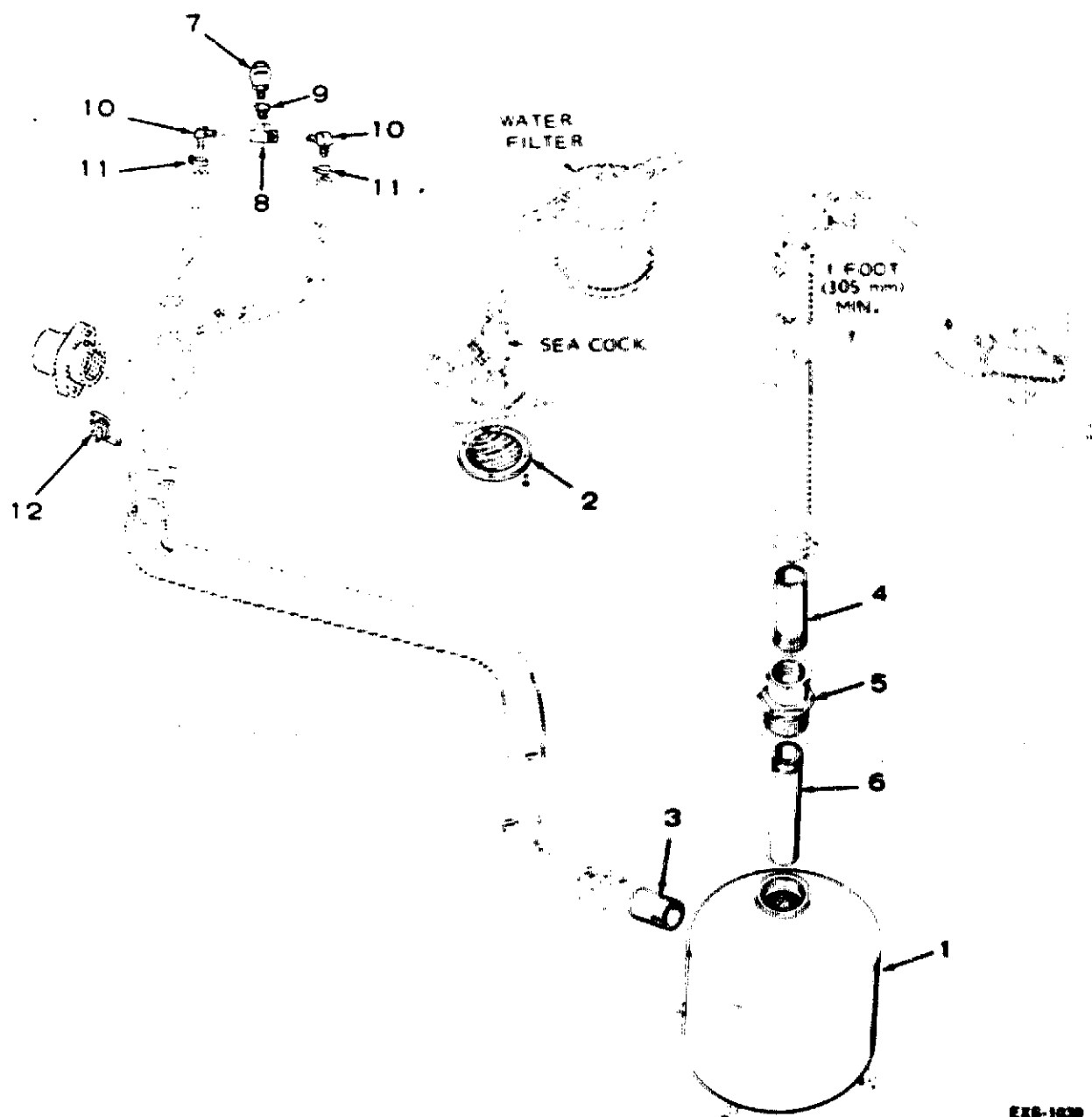
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
13	WASHER, LOCK		
	850-0040	4	Belt Guard Mounting (1/4")
	850-0045	2	Bracket to Starter Flange (5/16")
	850-0040	2	Bracket to Backplate (1/4")
	850-0040	2	Water Pump Mounting (1/4")
14	332-0051	1	Clamp, Water Outlet Line
15	803-0062	1	†Screw, Set - Socket (5/16-18 x 5/16")
16	515-0249	1	Key, Square - Pulley to Water Pump Shaft
17	191-0512	1	Flange
18	191-0311	1	Spacer, Flange
19	191-0422	1	Cover, Flange
20	SCREW, CAP - HEX HEAD		
	800-0051	2	Cover Mounting (3/8-16 x 1-1/4")
	800-0054	3	Flange & Spacer Mounting (3/8-16 x 2")
21	850-0050	5	Washer, Lock (Flange & Cover Mounting 3/8")

* - See Separate Illustration for Component Parts.

† - Parts Included in 132-0252 and 512-0134 Water Pump Pulley Kit.

968-0223 (JUNE 1981)

AQUALIFT EXHAUST SYSTEM



EXB-1030

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	155-1004	1	Kit, Aqualift Muffler (Includes Parts Marked Δ)
2	155-1002	1	Δ Strainer, Water Thru Hull
	155-0955	1	Muffler Package (Includes Parts Marked *)
3	155-1121	1	* Inlet Assembly, Epoxy Coated
4	505-0721	1	* Nipple, Pipe - Half GALV (1-1/4" NPT x 3")
5	505-0635	1	* Bushing, Double Tapped (1-1/4" NPT x 2" NPT)
6	505-0632	1	* Nipple, Pipe - Half GALV (1-1/4" NPT x 9-1/4")
	155-0950	1	Kit, Siphon Break Relief Valve (Includes Parts Marked *)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
7	504-0062	1	* Valve, Vacuum Relief (1 2" NPT)
8	502-0090	1	* Tee, Pipe - Brass (3/8" NPT x 3/8" NPT x 3/8" NPT)
9	502-0270	1	* Adapter, Pipe (3/8" NPT x 1 2" NPT)
10	502-0237	2	* Elbows, Pipe to Hose (3/8" NPT)
11	503-0446	2	Clamp, Hose (1 2")
12	309-0162	1	Switch, Thermostatic

Δ - Parts Included in Kit #155-1004.
 * - Parts Included in Package #155-0955.
 - - Parts Included in Kit #155-0950.

940-0223 (JUNE 1991)

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. (ENG)610-0330-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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Standard Model

SPECIAL PARTS LIST FOR **MODEL** 3.0MDJA-1R **SPEC** 1T
FOR STANDARD PARTS REFER TO **CATALOG** 968-0223 **KEY NO.** 1
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. (ENG) 610-0328-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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Standard Model

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. _____ (ENG) 610-0331-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		Standard Model			

SPECIAL PARTS LIST FOR MODEL 2.5MDJA-53CR SPEC 1U
FOR STANDARD PARTS REFER TO CATALOG 968-0223 KEY NO. 1
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. (ENG) 610-0328-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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Standard Model

SPECIAL PARTS LIST FOR **MODEL** 3.0MDJA-1R **SPEC** 1U

FOR STANDARD PARTS REFER TO **CATALOG** 968-0223 **KEY NO.** 1

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. (ENG) 610-0328-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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Standard Model

Dated March 1, 1979

Revised _____

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FOR STANDARD PARTS REFER TO **CATALOG** 968-0223 **KEY NO.** 4
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. _____ **(ENG) 610-0331-01**

Standard Model

SPECIAL PARTS LIST FOR **MODEL** 2.5MDJA-224R **SPEC** 2268T
FOR STANDARD PARTS REFER TO **CATALOG** 968-0223 **KEY NO.** 3
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. (ENG) 610-0330-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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Heat Exchanger

SPECIAL PARTS LIST FOR MODEL 3.0MDJA-1R SPEC 2268T
 FOR STANDARD PARTS REFER TO CATALOG 968-0223 KEY NO. 1
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)
 WIRING DIAGRAM NO. (ENG) 610-0328-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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Heat Exchanger

SPECIAL PARTS LIST FOR MODEL 2.5MDJA-224R SPEC 2268U
FOR STANDARD PARTS REFER TO CATALOG 968-0223 KEY NO. 3
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. (ENG) 610-0330-01

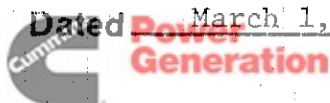
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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Heat Exchanger

Dated March 1, 1979

Revised _____

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F7

SPECIAL PARTS LIST FOR MODEL 3.0MDJA-1R SPEC 2268U

FOR STANDARD PARTS REFER TO CATALOG 968-0223 KEY NO. 1

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. (ENG) 610-0328-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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Heat Exchanger

Dated March 1, 1979

Revised _____

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F8

SPECIAL PARTS LIST FOR MODEL 3.0MDJA-3CR SPEC 2268U

FOR STANDARD PARTS REFER TO CATALOG 968-0223 KEY NO. 1

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. (ENG) 610-0328-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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Heat Exchanger

SPECIAL PARTS LIST FOR MODEL 3.0MDJA-232R SPEC 2268U
FOR STANDARD PARTS REFER TO CATALOG 968-0223 KEY NO. 4
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. (ENG) 610-0331-01

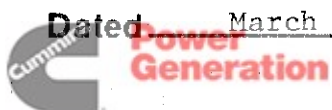
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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Heat Exchanger

Dated March 1, 1979

Revised _____

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F10

SPECIAL PARTS LIST FOR MODEL 3.0MDJA-3CR SPEC 2268V
FOR STANDARD PARTS REFER TO CATALOG 968-0223 KEY NO. 1
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)
WIRING DIAGRAM NO. (ENG) 610-0328-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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Heat Exchanger

Dated March 1, 1979

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WIRING DIAGRAM NO. (ENG) 610-0328-01

Keel Cooling

SPECIAL PARTS LIST FOR MODEL 3.0MDJA-1R SPEC 3316T

FOR STANDARD PARTS REFER TO **CATALOG** 968-0223 **KEY NO.** 1

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. (ENG) 610-0328-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		Keel Cooling			

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		Keel Cooling			

SPECIAL PARTS LIST FOR MODEL 3.0MDJA-1R SPEC 3316U

FOR STANDARD PARTS REFER TO CATALOG 968-0223 KEY NO. 1

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. (ENG) 610-0328-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
		Keel Cooling			

Dated March 1, 1979

Revised _____

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SPECIAL PARTS LIST FOR MODEL 2.5MDJA-53CR SPEC 3316V
FOR STANDARD PARTS REFER TO CATALOG 968-0223 KEY NO. 1
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)
WIRING DIAGRAM NO. (ENG) 610-0328-01

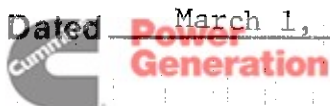
PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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Keel Cooling

Dated March 1, 1979

Revised

Page 1 of 1
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SPECIAL PARTS LIST FOR MODEL 3.0MDJA-1R SPEC 9374T

FOR STANDARD PARTS REFER TO CATALOG 968-0223 KEY NO. 2

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. (ENG) 610-0341-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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Heat Exchanger

Dated March 1, 1979

Revised

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WIRING DIAGRAM NO. (ENG) 610-0341-01

Heat Exchanger

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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201-1259	1	Armature Assembly
234-0048	1	Cover, End Bell

SPECIAL PARTS LIST FOR **MODEL** 3.0MDJA-232R **SPEC** 16291U
 FOR STANDARD PARTS REFER TO **CATALOG** 968-0223 **KEY NO.** 4
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)
WIRING DIAGRAM NO. (ENG) 610-0352-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Keel Cooling					
201-1259	1	Armature Assembly			
234-0048	1	Cover, End Bell			
103-0221	1	Stiffener, Backplate Cover			
110-2961	1	Head, Cylinder (Includes Valve Guides And Valve Seats)			
301-4008	1	Box, Control			
301-4007	1	Box, Heat Sink			
358-0018	1	Rectifier Diode			
363-0026	1	Heat Sink			
363-0027	1	Heat Sink			
332-0691	1	Stud Terminal			
332-1127	4	Insulator, Heat Sink			
508-0016	4	Washer, Fiber			
508-0017	4	Washer, Fiber			
Parts Not Furnished By Onan					
Raw Water Pump					

SPECIAL PARTS LIST FOR MODEL 3.0MDJA-99CR SPEC 18227U
FOR STANDARD PARTS REFER TO CATALOG 968-0223 KEY NO. 1
(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)
WIRING DIAGRAM NO. (ENG) 610-0360-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
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Heat Exchanger

SPECIAL PARTS LIST FOR MODEL 3.0MD1A-3CR SPEC 24628V

FOR STANDARD PARTS REFER TO CATALOG 968-0223 KEY NO. 1

(PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. (AC)610-0328-01

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Keel Cooling					
123-1578	1	Tube, Oil Fill			
102-1050	1	Base, Oil			
505-0130	2	Plug, Square Head-Oil Base (3/4")			
505-0007	1	Bushing, Reducer-Oil Base (1/4" x 1/8")			
505-0100	1	Nipple, Close-Oil Base (1/2" x 1 1/8")			
505-0229	1	Tee, Reducing-Oil Base (1/2" x 1/4" x 1/2")			
505-0057	1	Plug, Square Head-Oil Base (1/8")			
505-0054	1	Plug, Square Head (1/4")			
120-1001	1	Pump Assembly, Oil (Internal Part Not Sold Separately)			
120-0755	1	Cup, Oil Pump Intake			
103-0221	1	Cover, Drive Hole			
130-2167	1	Bracket, Pump			
503-0394	1	Hose, Rubber-Pump to Block			
191-1400	1	Flange, Starter			
332-1356	1	Clamp, Insulated			
140-0645	1	Adapter, Air Cleaner			
140-1804	1	Adapter, Resonator			
PARTS NOT FURNISHED BY ONAN:					
Raw Water Pump					
Belt Guard					
Drip Pan & Mounting Hardware					
Air Intake Adapter					