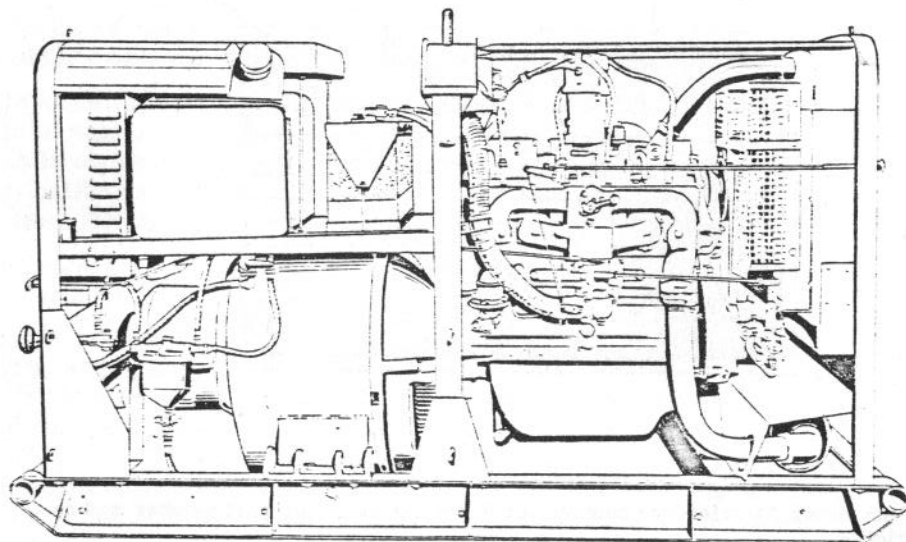


PARTS CATALOG

for
**ELECTRIC
GENERATING PLANTS**

**POWER UNIT PE-95 (NSN-17)
ONAN MODEL 10HQ-3R/552B**



**Contract Number DA-36-109-ENG-4828
Purchase Order Number 29-6084-24
Serial Numbers 491860 thru 492255**

D. W. ONAN & SONS INC.

MINNEAPOLIS 14, MINNESOTA

918-37 *****

Litho in U.S.A.

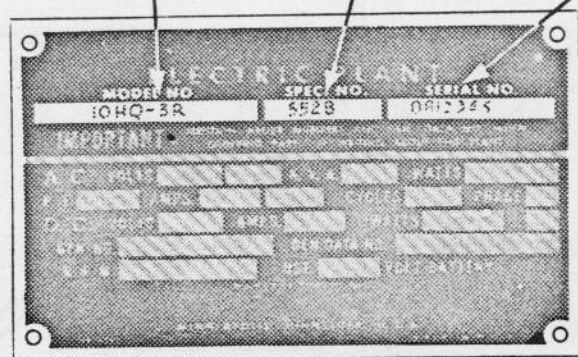
INSTRUCTIONS FOR ORDERING REPAIR PARTS

FOR PARTS OR SERVICE, CONTACT THE DEALER FROM WHOM YOU PURCHASED THIS EQUIPMENT OR REFER TO YOUR NEAREST AUTHORIZED SERVICE STATION.

TO AVOID ERRORS OR DELAY IN FILLING YOUR PARTS ORDER, PLEASE FURNISH ALL INFORMATION REQUESTED.

REFER TO THE NAMEPLATE ON YOUR UNIT

1. Always give the Model No. -----, Spec. No. -----, and Serial No. -----,



2. Do not order by reference number or group number, use part number and description.
3. Give the part number, description and quantity needed of each item. If an old part cannot be identified, return the part prepaid to your dealer or nearest AUTHORIZED SERVICE STATION. 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.

THIS PARTS CATALOG APPLIES TO
D.W. ONAN & SONS INC. GENERATING PLANT
MODEL 10HQ-3R/552B

MILITARY MODEL DESIGNATION PE 95 NSN-17

This complete electric plant supplies single phase, 60 cycle, alternating current at either 125 or 250 volts. The rated capacity is 10 KW unity power factor or 12.5 KVA at 80% power factor.

Parts are illustrated in groups. Referenced arrows which point to individual parts in the illustration, refer to corresponding Reference in the REF. NO. column of the parts list.

Some of the illustrations are typical rather than specific, and should be construed to represent a particular part number. Parts illustrations and listings are in functional groups.

Some items, especially hardware, are listed in their respective groups but do not carry a reference number.

Reference to the separate Instruction Manual covering this equipment will be helpful toward the installation and adjustment of replacement. This is especially true for properly replacing radio noise suppression application parts such as tooth type lockwashers, capacitors or bushings. These parts appear with the respective related groups.

With reference to engine part locations, the words crankcase (crk) and cylinder (cyl) are used interchangeably.

When referring to the plant it is advisable to mention "radiator end" or "carburetor side" or "opposite carburetor side" rather than "left" or "right side". This will eliminate possible confusion because "side" of the complete plant, as designated by D.W. ONAN & SONS INC. is determined by viewing the plant from the radiator end and resulting in the carburetor side. That concept might conflict with transportation engine designations. The "front" of the plant is the radiator end.

The plant is Radio Noise Suppressed to specification MIL-I-11683.

The wire used for general wiring of the plant controls meets specification JAN-C-76.

The final finish is Olive Drab Semi-Gloss Enamel TT-E-485B (On 85) per Color Card #2430. The plant is Fungus Treated.

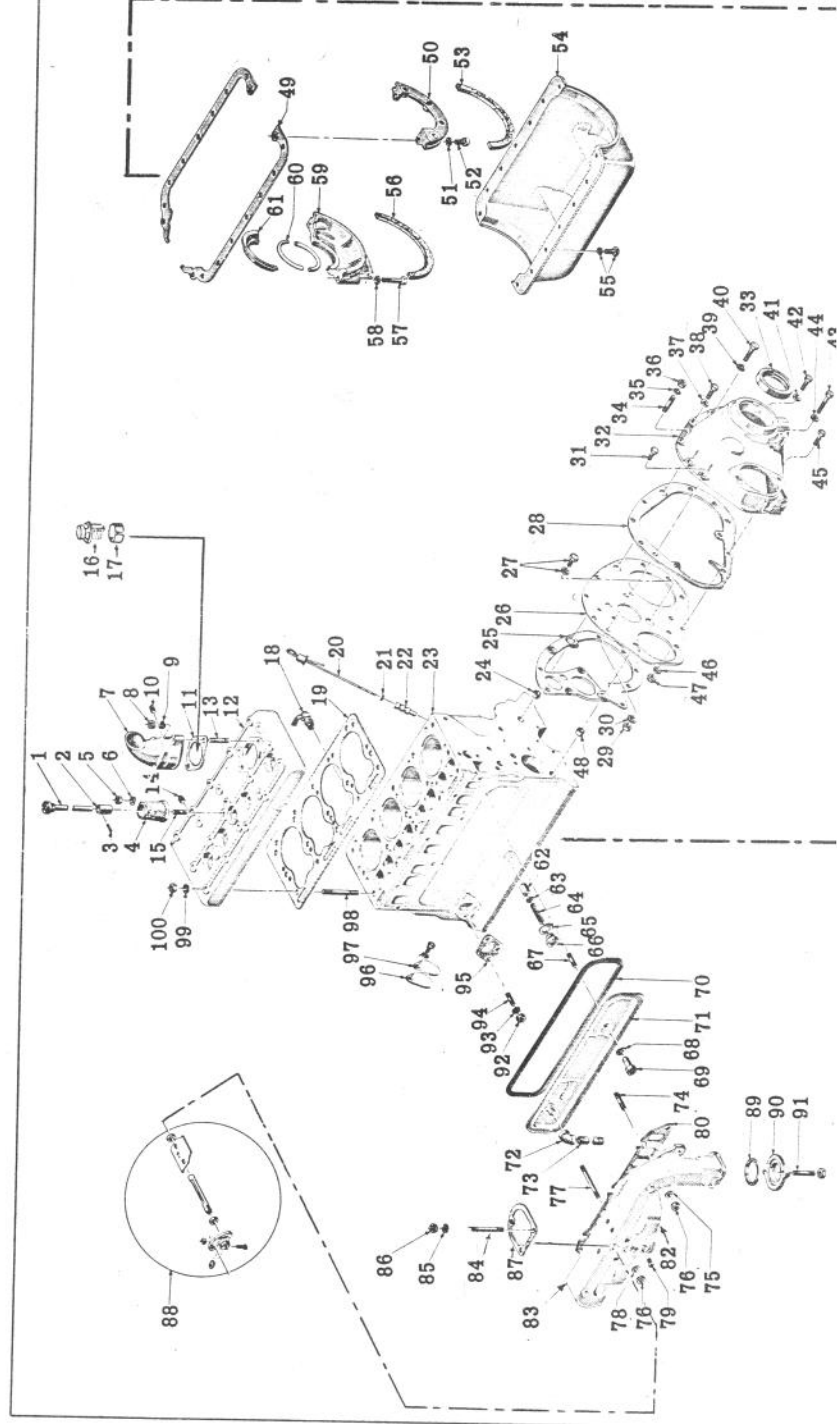
Most hardware items are standard, except for plating. The part number of hardware does not necessarily cover the particular type finish. zinc plating and iridite dip according to Army Spec 72-53 is desirable; it must be requested with the part number. Hardware appears with each illustration. A chart of oversize and undersize parts appears in the rear of this

EXPLANATION OF SYMBOLS

- (▲) Part is made to Onan Print & Specification.
- (8) Standard Commercial part but modified by Onan.
- (●) Standard Commercial part but modified by Manufacturer for Onan.
- (**) Military Standard part.

These symbols designate a manufacturer of the ONAN part or an equivalent part. Many of these parts are stocked by D. W. Onan & Sons Inc., Minneapolis 14, Minnesota, U.S.A.

SYMBOL	MANUFACTURER & ADDRESS	SYMBOL	MANUFACTURER & ADDRESS
AC	AC Spark Plug Division - Flint, Michigan	IB	Imperial Brass Mfg. Co. - Chicago 7, Illinois
ADR	American Radiator & Standard Sanitary Corp.- Pittsburgh, Pennsylvania	KA	Kastar, Inc. - New York, New York
AL	The Electric Auto-Lite Co. - Toledo 1, Ohio	Murray	Murray Corporation - Detroit 1, Michigan
BA	The Bassick Co. - Bridgeport 2, Connecticut	NL	National Lock Co. - Rockford, Illinois
BHM	Bridgeport Hdwe Mfg. Corp - Bridgeport 5, Conn.	NH	Norma-Hoffman Bearing Corp. - Stamford, Conn.
BSM	Bussmann Mfg. Co. - St. Louis 7, Missouri	Ohmite	Ohmite - Skokie, Illinois
CAR	Carter Carburetor Corp - St. Louis 7, Missouri	ORD	Ordinance Corps
CH	Cutler-Hammer, Inc. - Milwaukee, Wisconsin	PG	The Pierce-Governor Co. - Anderson, Ind.
CLD	Cornell-Dubilier Electric Corp.-So. Plainfield, N.J.	PH	Pheoll Mfg. Co. - Chicago 50, Illinois
CLOVER	Clover Industrial Inc. - Tonowanda 23, N.Y.	SHK	The Sherman-Klove Co. - Chicago 32, Ill.
CO	Continental Motors Corp. - Detroit 14, Michigan	SIG	Signal Corps
CRB	P & F Corbin Div. - New Britain, Connecticut	SK	Shakeproof Inc. - Chicago 39, Illinois
DCH	Diamond Calk Horsehoe Co. - Duluth, Minnesota	STN	Stant Mfg. Co. - Connersville, Indiana
DN	Donaldson Co., Inc. - St. Paul 4, Minnesota	SZ	Schwitzer-Cummins Co. - Indianapolis 7, Ind.
DV	The Dole Valve Co. - Chicago 12, Illinois	TNP	Tinnerman Products Inc. - Cleveland 1, Ohio
EHR	Electric Hose & Rubber Co. - Wilmington, Del.	TOI	Thermo-O-Disc, Inc. - Mansfield, Ohio
FBM	Fairbanks, Morse & Co. - Chicago 5, Illinois	UC	United Carr Fastener Corp. - Cambridge 42, Mass.
FR	Fram Corporation - Providence 16, R. I.	VG	Victor Mfg. & Gasket Co. - Chicago 90, Illinois
GM	General Motors Corp. - Detroit 2, Michigan	VL	The Ulchek Tool Co. - Cleveland 4, Ohio
JR	The B.F. Goodrich Co. - Akron, Ohio	WB	Willard Storage Battery Co. - Cleveland 1, Ohio
JT	Goodyear Tire & Rubber Co. - Akron, Ohio	WH	The Weatherhead Co. - Cleveland 8, Ohio
IOF	Hoof Products Co. - Chicago 38, Illinois	WM	The Wiremold Co. - Hartford 10, Connecticut
		YAM	Yates-American Machine Co. - Beloit, Wisc.
		USR	U. S. Rubber Co. - N. Y. 20, N. Y.



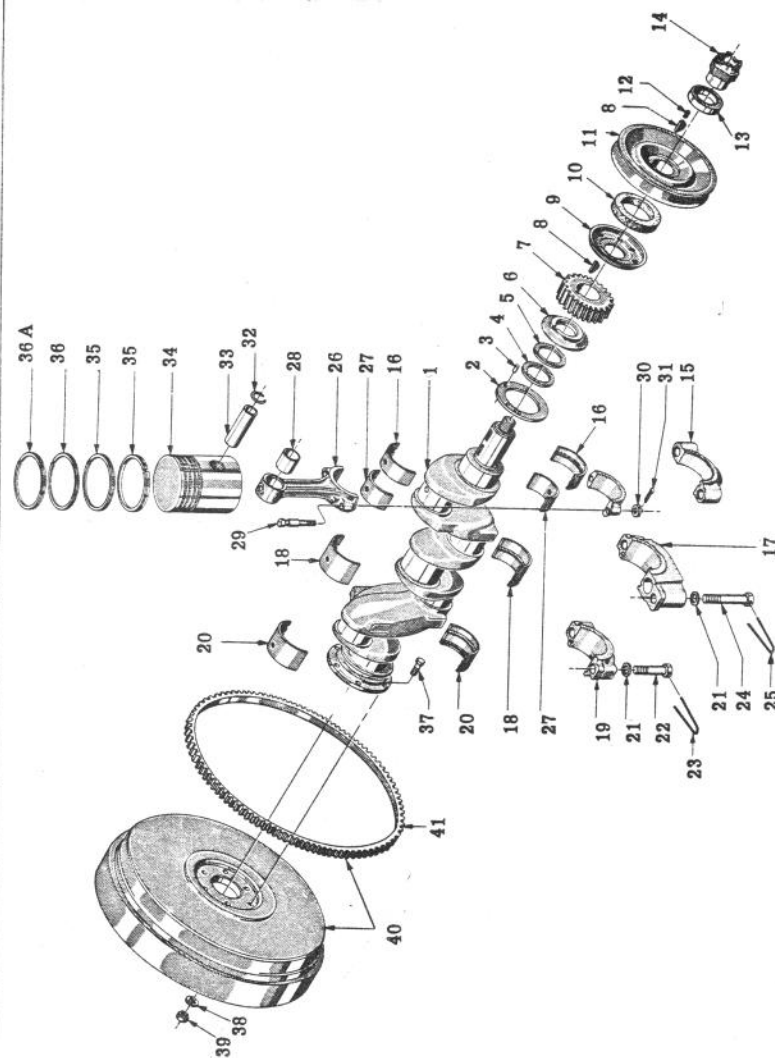
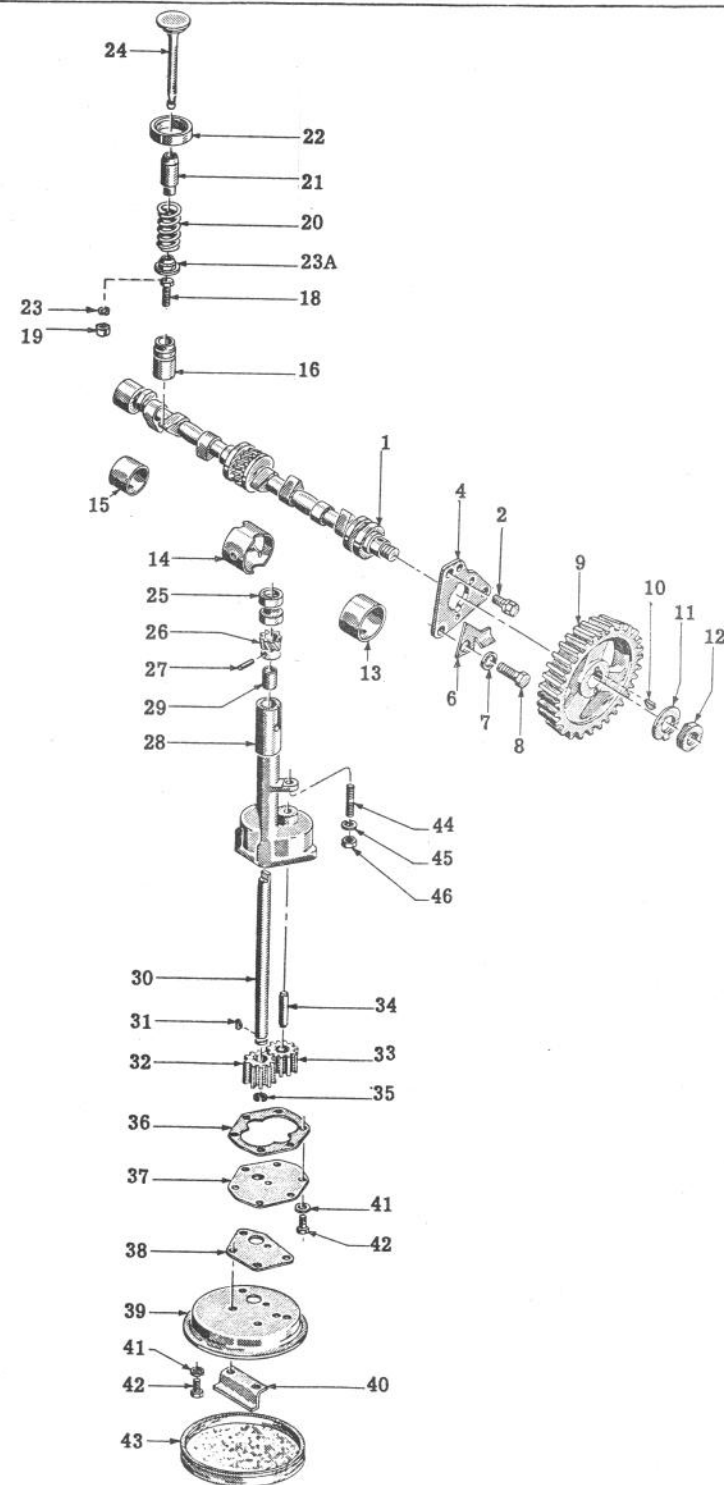


FIG. 2 - INTERNAL VIEW ENGINE PARTS GROUP



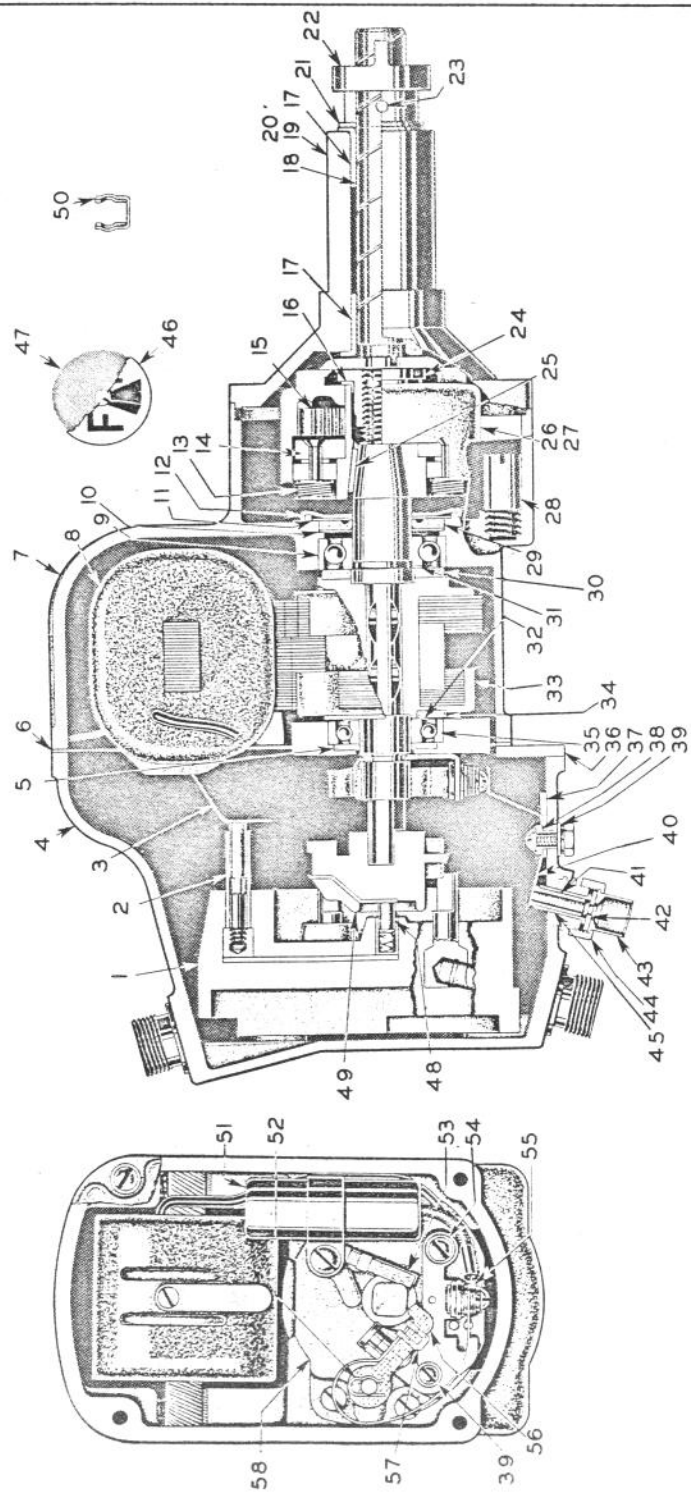
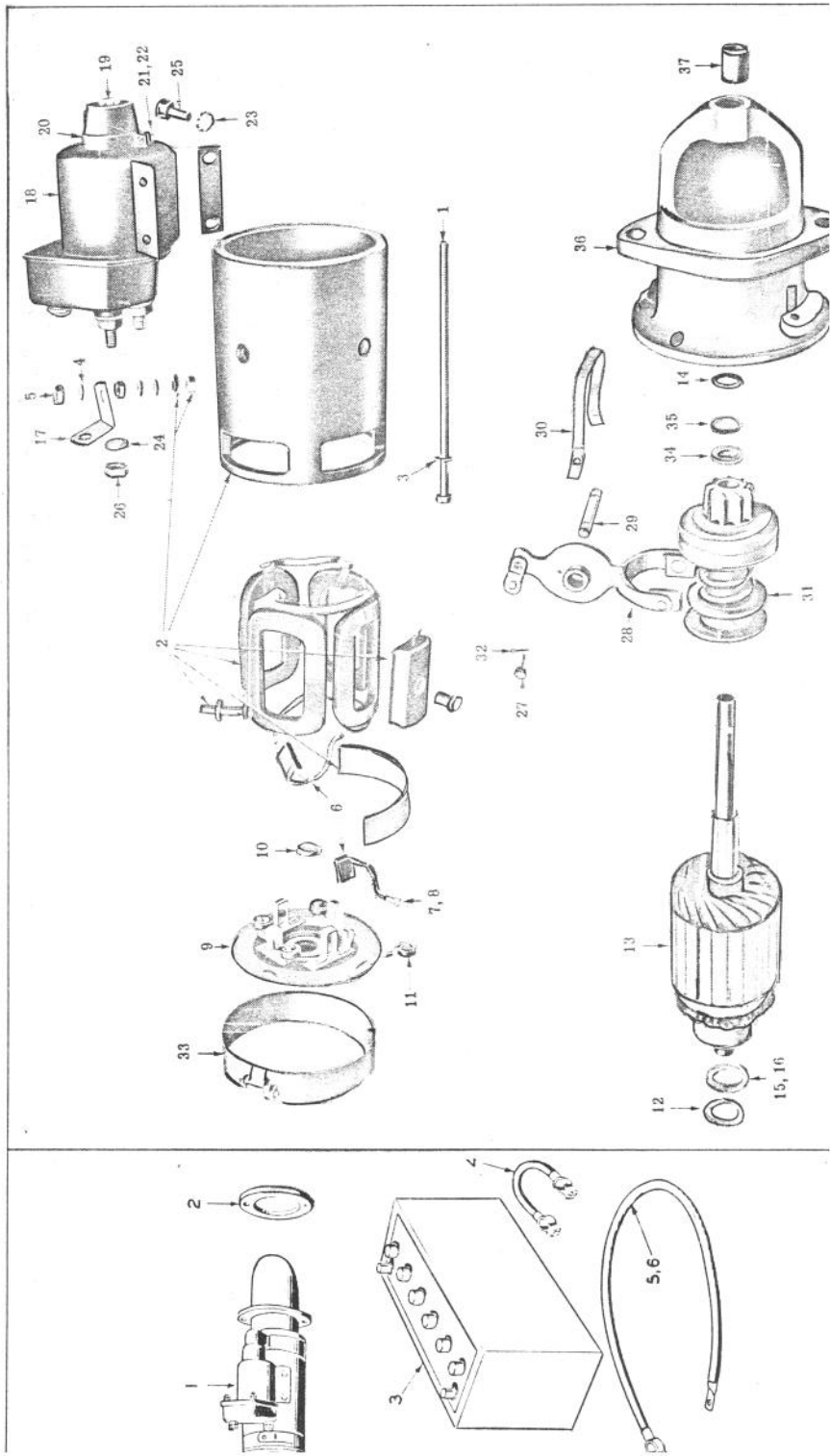


FIG. 10 - MAGNETO PARTS GROUP



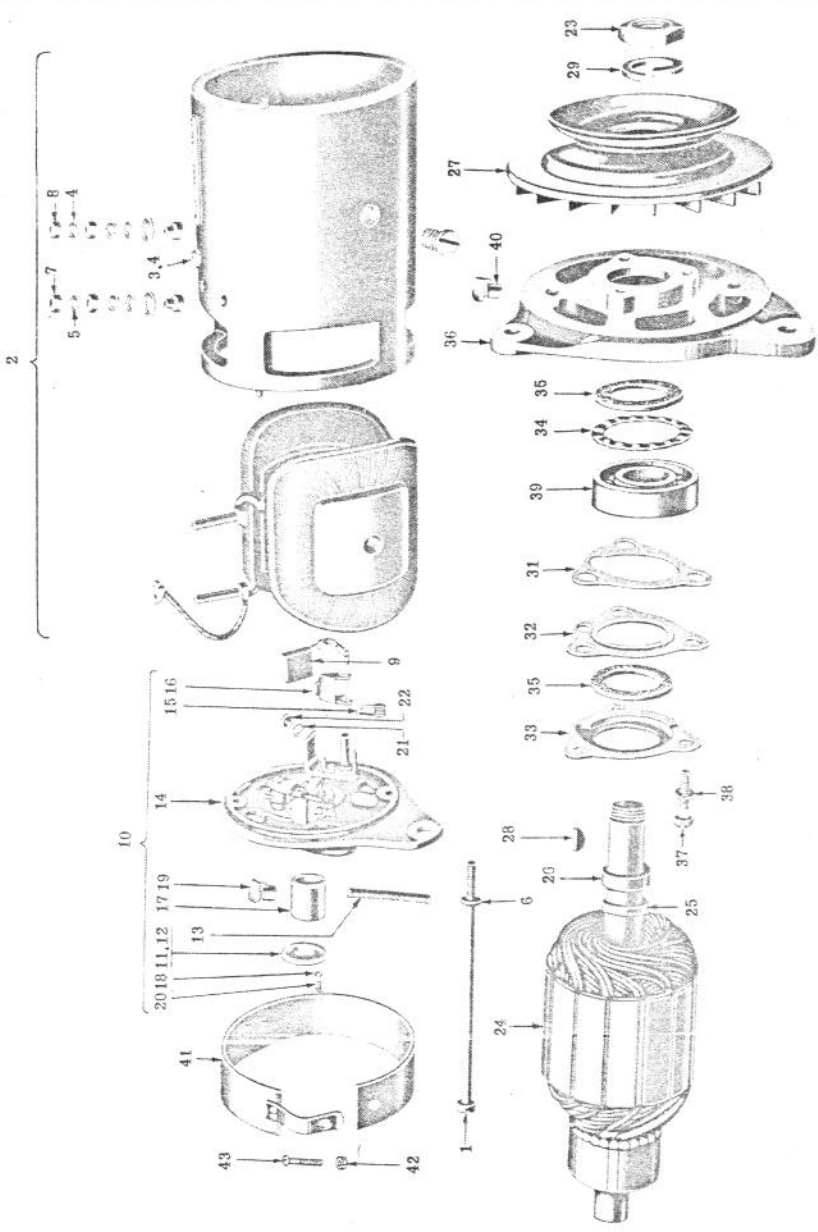
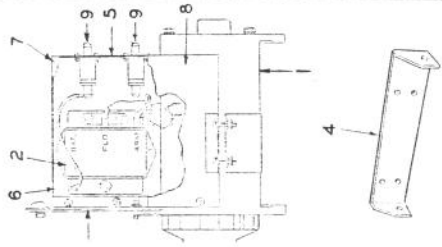
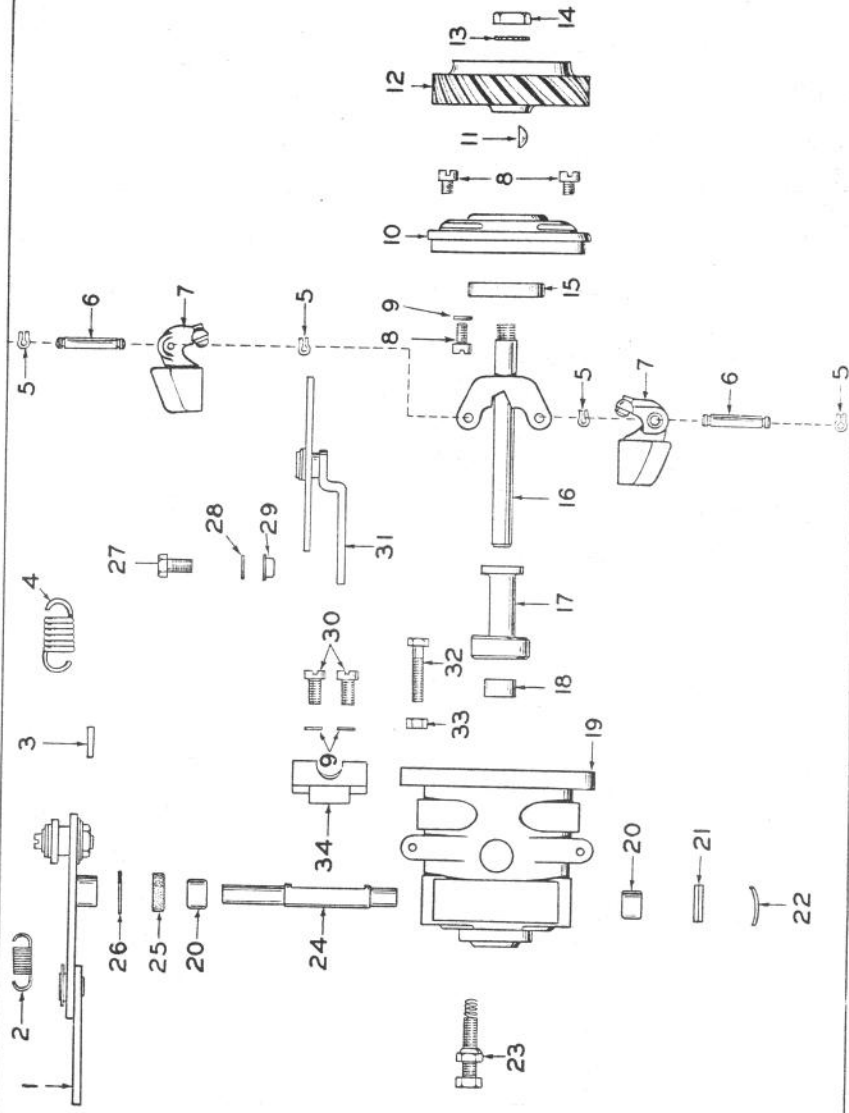


FIG. 13 - CHARGING GENERATOR & CHARGE REGULATOR GROUP

FIG. 14 - CHARGING GENERATOR PARTS GROUP



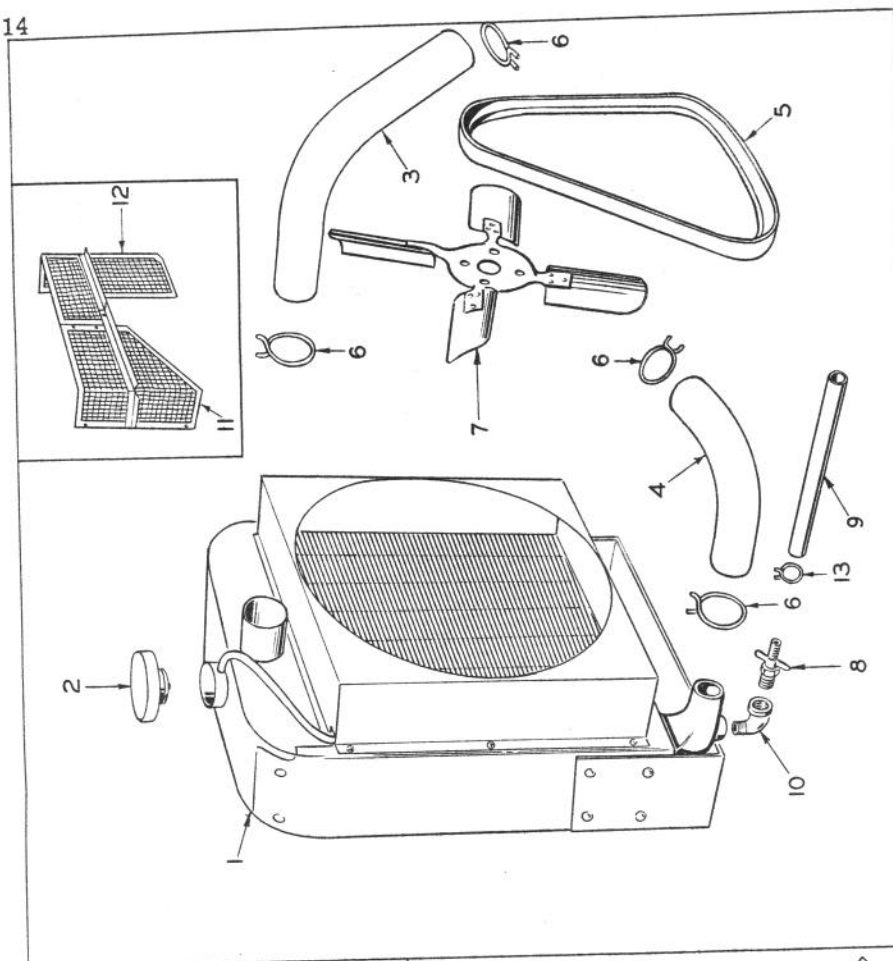


FIG. 18 - RADIATOR GROUP

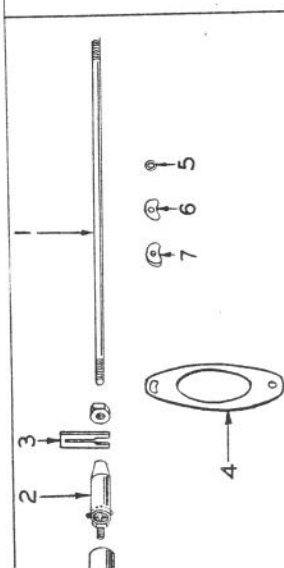
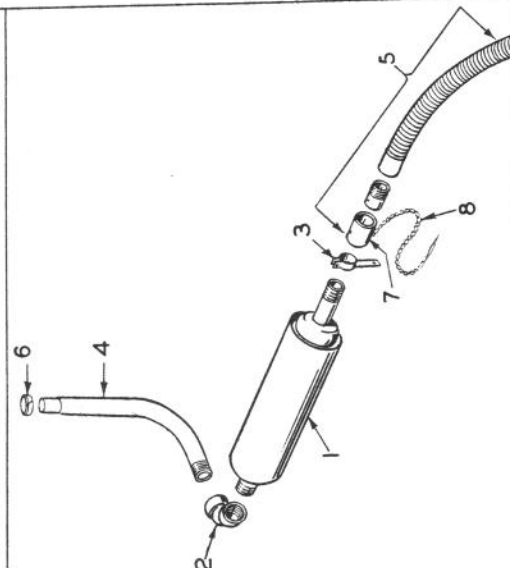
FIG. 16 - GOVERNOR LINKAGE
& GOVERNOR MOUNTING GROUP

FIG. 17 - EXHAUST GROUP

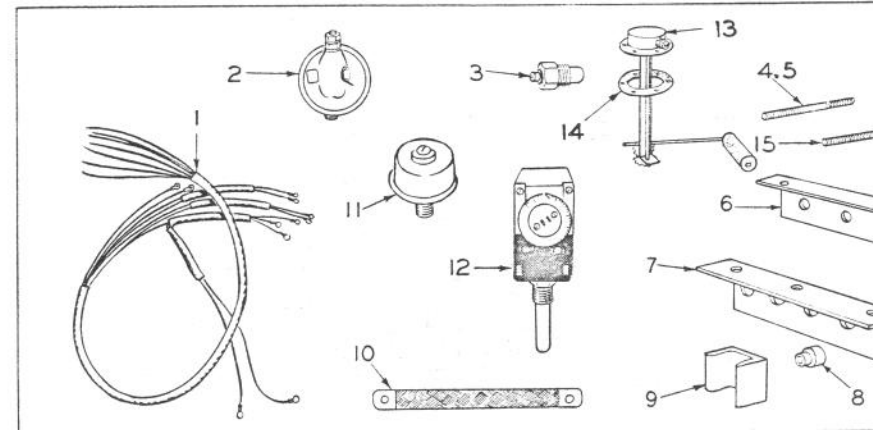


FIG. 19 - CONTROL ACCESSORIES GROUP

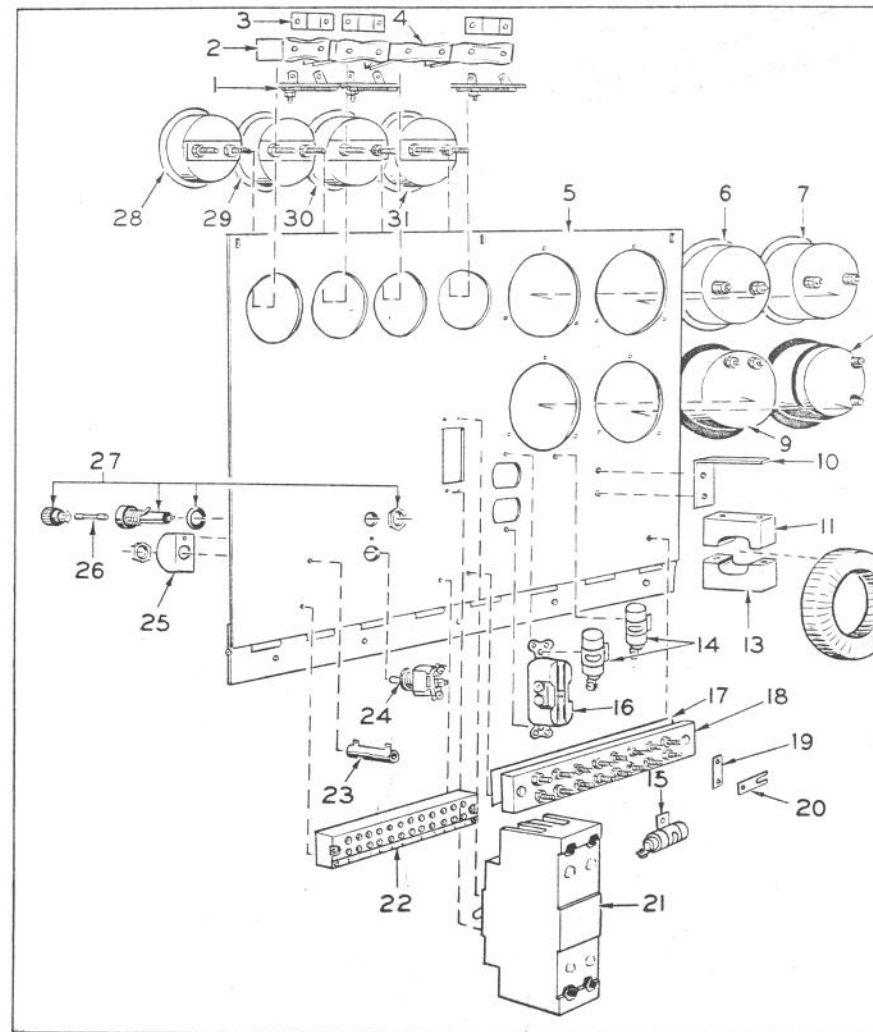
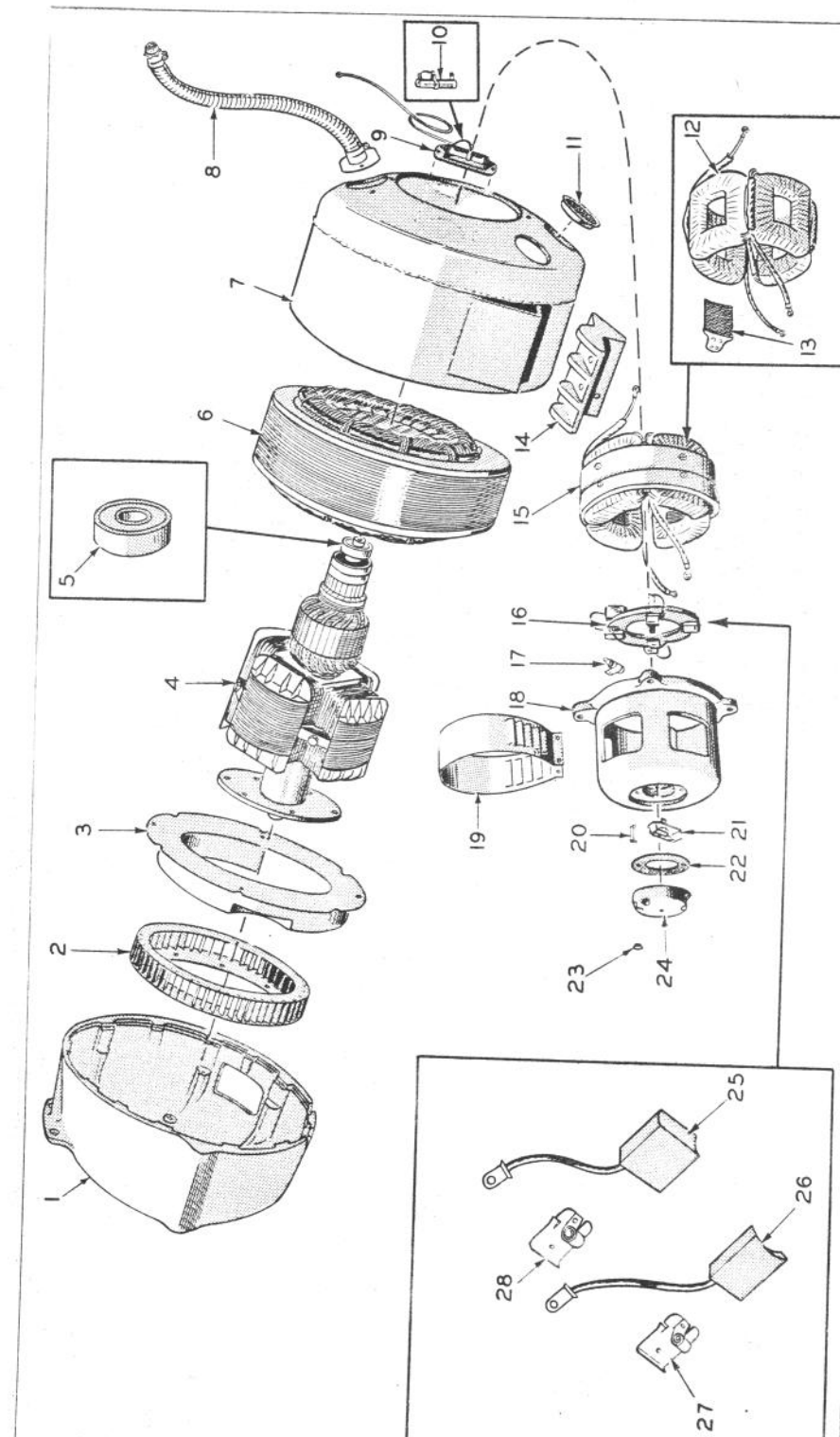
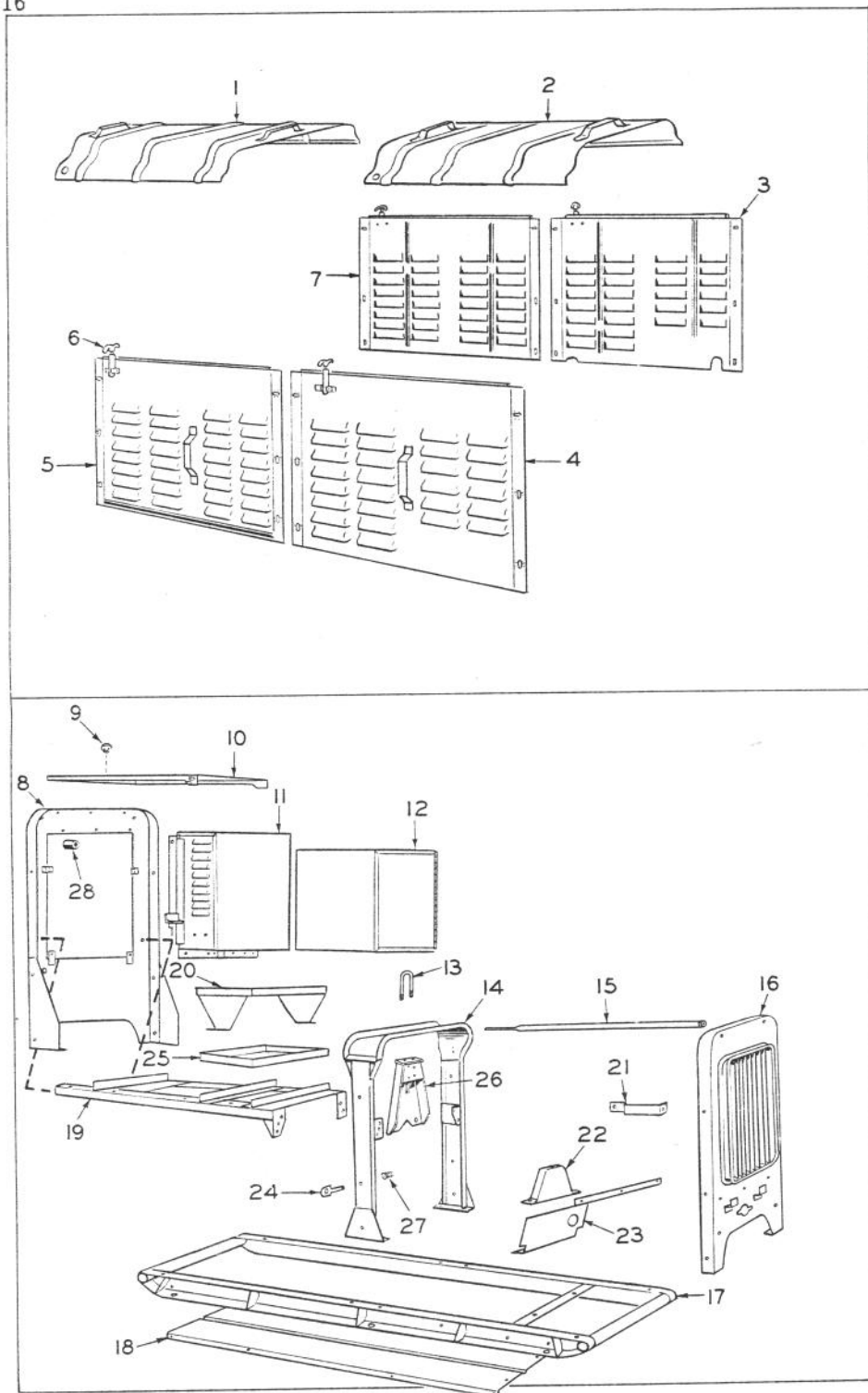


FIG. 20 - ELECTRICAL GROUP



EF. O.	ONAN PART NO.	PRIME MFR. PART NO.	QUAN USED	DESCRIPTION
	100P157		1	FIG. 1 - EXTERNAL VIEW ENGINE PARTS GROUP
1		(CO)F600M-2160		Engine, Replacement (CONTINENTAL Type FS-162 Spec 6007, Per Military Specification MIL-E-11175A) - Piston, Rod, and Bearing mechanisms are Standard Military Parts - General description: INCLUDES Complete Block, also Valve Cover, Cyl. Head, Oil Pan, Thermostat, Water Pump, Fan Hub, Flywheel, Manifolds.
2		(CO)PYM-201		EXCLUDES Radiator, Air Cleaner, Fan Blades, Charge Regulator, Flywheel Hsg., Fuel Pump, Governor, Ign. Wiring, Spark Plugs, Suppression
3		(CO)X-1735		Shielding, Magneto, Charge Generator, Charge Regulator, Carburetor, Fan Belt, Oil Filter, Starting Motor, Oil Fill Neck.
4		(CO)F162M-271		Shaft Assembly, Magneto Drive
5		(CO)13XX-1802-G		Coupling, Drive - Magneto Drive Shaft
6		(CO)13XX-203		Pin, Magneto Drive Coupling
7		(CO)F226K-337		Adapter, Magneto
8		(CO)13XX-1801-E		Nut, 3/8-16 - Magneto Adapter to Cyl. Hd.
9		(CO)13XX-202		Washer, Lock - 3/8" - Magneto Adapter to Cyl. Hd.
10		(CO)13XX-101		Elbow, Outlet - Cylinder Water
11		(CO)C400K-215		Nut - 5/16-18 - Outlet Elbow
12		(CO)F162A-329		Washer, Lock - 5/16" - Outlet Elbow
13		(CO)13XX-19837		Plug, Pipe - 1/4" - Ext. Head
14		(CO)13XX-101-B		Gasket, Cylinder Water Outlet Elbow
15		(CO)13XX-104		Head Assembly, Cylinder - Includes Head, Header Studs and Plug
16		(CO)13XX-19004-C		Stud, 5/16-18 x 2-1/8" - Water Outlet Elbow
17		(CO)F126K-246		Plug, Pipe - 1/2" - Countersunk - Thermometer Hole Plug
18		(CO)F218K-202		Plug, Pipe - 3/4" - Ext. Hd. - Cylinder Head
19		(CO)X-12543		Stud, - 3/8"-16 x 1-1/2 - Mag. Adapter to Cyl. Head
20		(CO)F400A-336		Thermostat, Coolant Water
		(CO)F140L-330		Ring, Thermostat Adapter
				Cock, Drain - Cylinder Water
				Gasket, Cylinder Head
				Rod Assembly, Oil Gauge

WHEN ORDERING PARTS, BE SURE TO INCLUDE MODEL, SERIAL, AND SPEC. NUMBER OF THE UNIT.

21	509-29	(CO)Y400L-266	1	Felt, Oil Gauge Rod Cover
22		(CO)F400A-5131-A	1	Support, Oil Gauge Rod
23			1	Cylinder and Crankcase Assy. - Includes Cylinder & Crankcase, Bearings, Bushings, Guides, Inserts, Supports, Guard, Screws, Studs, & Pins.
23		(CO)F400A-5131-C	1	Cylinder and Crankcase Assy. - Includes all parts in the "A" assembly plus Pistons and Rings.
23		(CO)F400A-5131-I	1	Cylinder and Crankcase Assy. - Includes all parts in the "C" assembly with complete valve and tappet assemblies.
24		(CO)8TC-200	1	Dowel, Ring - Gear Cover to Crankcase
25		(CO)F400B-225	1	Gasket, End Plate to Cylinder
26		(CO)F400B-371	1	Plate, End - Crankcase Front
27		(CO)13XX-3896	1	Screw and Washer Assembly - Front End Plate to Cyl. - 5/16-18 x 3/4"
27		(CO)13XX-3941	1	Screw, Front End Plate to Gear Cover - 3/8-16 x 7/8"
27		(CO)13XX-203	1	Washer, Lock - Front End Plate to Gear Cover - 3/8"
28		(CO)F400B-320	1	Gasket, Gear Cover to End Plate
29		(CO)13XX-1802H	1	Nut, 7/16-14 - Gear Cover to End Plate
30		(CO)13XX-270	1	Washer, Lock - 7/16" Gear Cover
31		(CO)D600B-221	1	Screw, Dowel - Gear Cover to End Plate 7/16-14 thd
32		(CO)F400B-4142	1	Cover Assembly, Gear - Includes Cover and Seal
33		(CO)A600L-202	1	Seal, Oil - Crankshaft Bearing, Front
34		(CO)13XX-4200	2	Stud - 3/8-16 x 1-11/16" - Gear Cover to Cyl. (Upper Holes)
35		(CO)13XX-203	2	Washer, Lock - 3/8" - Gear Cover to Cylinder
36		(CO)13XX-1802-G	2	Nut, 3/8-16 - Gear Cover to Cyl.
37, 38		(CO)13XX-1802	1	Screw & Lockwasher - 3/8-16 x 2-5/8" - Gear Cover to Cyl.
39, 40		(CO)13XX-5819	1	Screw and Lockwasher - 7/16-14 x 1-1/2" - Gear Cover to Crankcase (At Ring Dowel)
41		(CO)X-14134	2	Washer, Copper - 3/8" - Gear Cover to Filler Block (Upper)
42		(CO)13XX-3295	1	Screw - 3/8-16 x 1-1/8" - Gear Cover to Filler Block
43		(CO)13XX-5821	2	Screw & Lock Washer - 3/8-16 x 2 - Gr. Cover to Filler Block
44		(CO)13XX-3299	1	Screw, Hex. Hd. - 3/8-16 x 2" - Gr. Cover to Filler Block
45		(CO)13XX-5824	1	Screw and Lockwasher 3/8-16 thrd. - Gr. Cover to End Plate
46		(CO)13XX-3941	1	Screw, 3/8-16 x 7/8" - Frt. End Plate to Gr. Cover
47		(CO)13XX-203	1	Washer, Lock - 3/8" - Frt. End Plate to Gr. Cover
48		(CO)13XX-1802-G	1	Nut - 3/8-16 - Gr. Cover to End Plate

PARTS LIST

EF. O.	ONAN PART NO.	PRIME MFR. PART NO.	QUAN- USED	DESCRIPTION
				FIG. 1 - EXTERNAL VIEW ENGINE PARTS GROUP (CONT.)
11		(CO)13XX-297A	2	Washer, Lock - 5/16" - Fil. Blk to Crankcase Screw
12		(CO)13XX-3924	2	Screw, Frt. Filler Block to Crankcase - 5/16-18 x 7/8"
13		(CO)D600B-214	1	Cork, Front Filler Block to Oil Pan
14		(CO)F400B-4580	1	Pan, Oil
15		(CO)13XX-3896	14	Screw and Lockwasher Assembly - Oil Pan - 5/16-18 x 3/4"
16		(CO)D600B-214	1	Cork, Rear Filler Block to Oil Pan
17		(CO)13XX-2958	1	Screw, Filler Block to Crankcase, Rear - 5/16-18 x 2-5/8"
18		(CO)13XX-297-A	2	Washer, Lock - Rear Filler Block to Crankcase 5/16
19		(CO)D600B-406	1	Block, Filler (Rear)
20		(CO)F400B-252	2	Seal, Oil - Rear Bearing Filler Block - Felt against Neoprene - Installed with Felt Toward Rear
21		(CO)D600B-305	1	Guard, Oil - Crankshaft Bearing Rear
22		(CO)15SL-211	1	Valve, Relief - Oil Pressure
23		(CO)W5L-213	X	Washer, Adjusting - Oil Pressure Relief Valve - Use as Required
24		(CO)F400L-223	1	Spring, Oil Pressure Relief Valve
25		(CO)X-365	1	Gasket, Oil Pressure Relief Valve Plug
26		(CO)41AL-200	1	Plug, Oil Pressure Relief Valve
27		(CO)13XX-4036	2	Stud, 1/4-20 x 1-3/8" - Valve Chamber Cover
28		(CO)X-334	2	Gasket, Valve Chamber Cover Nut - 7/16
29		(CO)13X8FA-208	2	Nut, Valve Chamber Cover - 1/4-20
30		(CO)F124A-201	1	Gasket, Valve Chamber Cover
31		(CO)F400A-2410	1	Cover Assembly, Valve Chamber
32		(CO)X-12150	1	Elbow, Vent Tube - Valve Chamber Cover
33		(CO)P39A-221	1	Tube, Vent - Valve Chamber Cover - Order Bushing & Nipple from Fuel System Group.
34		(CO)13XX-4200	6	Stud, Int. & Exh. Manifold to Cyl. - 3/8-16 x 1-11/16"
35		(CO)13XXUB-110	3	Washer, Plain - 3/8" - Manifold to Cyl.
36		(CO)13XX-18278	7	Nut, Brass - 3/8-16" - Manifold to Cyl.
37		(CO)13XX-19878	4	Stud, 3/8-16 x 5-1/2" - Manifold to Cyl. - Center
38		(CO)13XX-14141	1	Washer - 13/32" - Manifold to Cyl.
39		(CO)13XX-100	1	Plug, Pipe - 1/8 Ext. Head - Exhaust Manifold
40		(CO)F400E-303	1	Gasket, Exhaust and Intake Manifold to Cylinder

WHEN ORDERING PARTS, BE SURE TO INCLUDE MODEL, SERIAL, AND SPEC. NUMBER OF THE UNIT.

82	(CO)F400F-409	1	Manifold, Intake
83	(CO)F400E-304	1	Manifold, Exhaust - Updraft
84	(CO)13XX-19019	3	Stud, Exhaust to Intake Manifold - 3/8-16 x 3-15/16"
85	(CO)13XX-297	3	Washer, Lock - 3/8" - Exhaust to Intake Manifold
86	(CO)13XX-18278	3	Nut - 3/8-16 - Exhaust to Intake Manifold
87	(CO)F400E-205	1	Gasket, Exhaust to Intake Manifold
88	No Number	1	Control Assembly, Heat (Not Sold As An Assembly)
	(CO)C400E-218	1	Thermostat, Heat Control
	(CO)C400E-212	1	Key, Heater Valve
	(CO)C400E-219	1	Washer, Heat Control Thermostat Shield
	(CO)C400E-216	1	Counterweight, Heat Control Valve
	(CO)13XX-3009	1	Screw - #10-32 x 3/4" - Heat Control Counterweight Clamp
	(CO)13XX-1896	1	Nut - #10-32 - Heat Control Counterweight Clamp Screw
	(CO)F600E-208	1	Valve, Exhaust Manifold Heater
	(CO)F400E-206	1	Shaft, Exhaust Manifold Heater Valve
	(CO)F600G-200	2	Bushing, Heater Control Valve
	(CO)F400E-210	1	Screw, Stop - Heater Control Valve
	(CO)C400E-217	1	Cover, Exhaust Manifold Thermostat
	(CO)F400E-207	1	Spacer, Exhaust Manifold Thermostat Cover
	(CO)13XX-17019	1	Pin - 3/16 x 3/8" - Heat Control Cover Stop
	(CO)13XX-3055	1	Screw - 1/4 - 20 x 1" - Heat Control Cover to Manifold
	(CO)13XX-201	1	Washer, Lock - Heat Control Cover Screw
	(CO)C600E-202	1	Gasket, Exhaust Pipe Packing
	(CO)C600E-200	1	Flange, Packing - Exhaust Pipe
	(CO)13XX-4268	2	Stud - 3/8-16 x 2-1/8" - Exhaust Outlet Packing Flange
	(CO)13XX-1801-E	2	Nut - 5/16-18 - Fuel Pump Mtg.
	(CO)13XX-202	2	Washer, Lock - 5/16" - Fuel Pump Mtg.
	(CO)13XX-1952	2	Stud - 5/16-18 x 1-1/4" - Fuel Pump Mtg.
149P175		1	Gasket, Fuel Pump Mtg. - Appears Also With Fuel System Group
	(CO)F400C-208	1	Felt, Timing Hole Cover
	(CO)F400C-206	1	Cover, Timing Hole
232-255		14	Stud - 7/16-14-20 x 3-1/2 - Cyl. Head to Cyl.
98	(CO)13XX-19828	1	Stud - 7/16-14-20 x 4" - Distributor Adapter
99	(CO)13XX-4349	1	Washer, Distributor - Cyl Head
99	(CO)13XX-1408	1	

EF. NO.	ONAN PART NO.	PRIME MFR. PART NO.	QUAN USED	DESCRIPTION
				FIG. 1 - EXTERNAL VIEW ENGINE PARTS GROUP (CONT.)
		(CO)13XX-5798	2	Screw and Lockwasher - Rear Filler Block to Flywheel Housing - 1/4-20 x 5/8"
		(CO)13XX-5641	2	Eye, Lifting - Cyl. Head Stud
		(CO)X-2236	1	Plug, Hubbard - Camshaft Bushing (Rear) 1-1/2"
		(CO)X-2207	1	Plug, Hubbard - Cylinder Core Hole, 1-1/8"
		(CO)X-2202	2	Plug, Hubbard - Cylinder Core Hole, 1-3/8"
		(CO)13XX-5798	2	Screw and Lock Washer - Rear Filler Block to Output Generator Adapter - 1/4-20 x 5/8"
		(CO)13XX-101	2	Plug, Pipe - 1/4" - Intake Manifold
		(CO)13XX-3115	2	Screw, Intake Manifold Plug
		(CO)X-366	2	Gasket, Intake Manifold Plug Screw
		(CO)13XX-104	1	Plug, Pipe - 3/4" - Ext. Head - Oil Pan
				FIG. 2 - INTERNAL VIEW ENGINE PARTS GROUP
		(CO)F400C-359	1	Crankshaft
		(CO)D600C-204	2	Washer, Thrust - Crankshaft
		(CO)6TG-101	3	Pin - 5/32 x 1/2" - Crankshaft Thrust Washer to Crankcase
		(CO)10EC-204	(8)	Shim, Thrust - Crankshaft (.002") - Use as required
		(CO)10EC-205	(8)	Shim, Thrust - Crankshaft (.008") - Use as required
		(CO)F600C-205	1	Plate, Thrust - Crankshaft
		(CO)D600H-300	1	*Gear, Timing - Crankshaft
		(CO)X-511	2	Key, Crankshaft Gear - (Morton Hi-Pro #H.P. 808)
		(CO)A600C-204	1	Thrower, Oil - Crankshaft
		(CO)D600K-232	1	Seal, Fan Drive Pulley
		(CO)F140K-302	1	Pulley, Fan Drive (on Crankshaft)
		(CO)C400K-217	1	Plug, Keyway - Fan Drive Pulley
		(CO)F600-O-205	1	Washer, Crankshaft Starting Jaw to Crankshaft

WHEN ORDERING PARTS, BE SURE TO INCLUDE MODEL, SERIAL, AND SPEC. NUMBER OF THE UNIT.

14		(CO)F600-O-206	1	Jaw, Starting - Crankshaft
15	**MS13974-1	(CO)F400B-368	1	Cap, Bearing - Crankshaft Front
16		(CO)F162G-300	2	*Bearing Half, Crankshaft - Front Upper and Lower
17		(CO)F400B-367	1	Cap, Bearing - Crankshaft Center
18	**MS13987-1	(CO)F162G-204	2	*Bearing Half, Crankshaft - Center Upper and Lower
19		(CO)F400B-366	1	Cap, Bearing - Crankshaft Rear
20	**MS13987-1	(CO)F162G-204	2	*Bearing Half, Crankshaft, Rear Upper and Lower
21		(CO)X-B2B-110	6	Washer, Plain - 1/2" - Cr. Brg. Cap to Cylinder
22		(CO)X-2986	4	Screw, Crankshaft Bearing Cap - Frt. and R. 1/2-13 x 2-1/2"
23		(CO)GSH-100	2	Wire, Lock - No. 19 x 10
24		(CO)X-3511	2	Screw, Crankshaft Bearing Cap - Center - 1/2-13 x 3-1/4"
25		(CO)X-1333-B	1	Wire, Lock - No. 19 x 12
26		(CO)F218D-3021	2	Rod and Cap Assembly - Includes Bearings, Bushings, Bolts and Nuts, Cyl. 1 & 3
27	**MS13994-1	(CO)F218D-3031	2	Rod and Cap Assembly - Includes Bearings, Bushings, Bolts and Nuts, Cyl. 2 & 4
28	**MS13963-1	(CO)F162G-202	8	*Bearing Half, Conn. Rods
29		(CO)F162G-203	4	*Bushings, Piston Pin (In Connecting Rod)
30		(CO)C600D-206	8	Bolt, Connecting Rod
31		(CO)X-18188	8	Nut, Connecting Rod Bolt - 3/8-24
32	**MS13962-1	(CO)13XX-601	8	Pin, Cotter - Connecting Rod Bolt - 3/32 x 3/4"
33	**MS13996-2	(CO)F162A-229	8	Ring, Piston Pin Retaining
34		(CO)F162A-230	4	*Pin, Piston
35	**MS13957-1	(CO)F162A-417	4	*Piston and Pin Assembly
36	**MS13931-10	(CO)F162A-417	4	*Piston Only - Order Piston and Pin Assy.
37	**MS13932-7	(CO)F162A-233	8	*Ring, Piston - Oil Control - 3rd and 4th Grooves
38	**MS13933-7	(CO)F162A-232	4	*Ring, Piston - Compression - Second Groove
39		(CO)F162A-231	4	*Ring, Piston - Chrome, Compression - Top Groove
40		(CO)13XX-5822	6	Bolt, Flywheel to Crankshaft
41		(CO)13XX-297	6	Washer, Lock - 3/8" - Flywheel
42		(CO)13XX-18237	6	Nut - 3/8-24 - Flywheel Mtg.
43		(CO)F162C-3210	1	Flywheel and Ring Gear
44		(CO)8FC-304	1	Gear, Ring

REF. NO.	ONAN PART NO.	PRIME MFR. PART NO.	QUAN USED	DESCRIPTION
FIG. 3 - CAMSHAFT & OIL PUMP PARTS GROUP				
1		(CO)F400L-421	1	Camshaft
2		(CO)13XX-3897	2	Screw & Washer Assembly - 5/16-18 x 5/8" - Camshaft Thrust Plate
4		(CO)F400L-203	1	Plate, Thrust - Camshaft
6		(CO)F600L-203	1	Plate, Oiler - Timing Gear
7		(CO)13XX-270	1	Washer, Lock - 7/16" Camshaft Thrust Plate
8		(CO)13XX-3362	1	Screw - 7/16"-14 x 1-1/4" - Camshaft Thrust Plate to Crankcase
9		(CO)F400H-401	1	*Gear, Timing - Camshaft
10		(CO)X-506	1	Key, Woodruff No. 6 - Timing Gear
11		(CO)PYC-202	1	Lock, Nut to Timing Gear
12		(CO)13XX-18156	1	Nut - 3/4-16 - Camshaft Timing Gear
13		(CO)F600G-295	1	Bushing, Camshaft - Front
14		(CO)Y400G-228	1	Bushing, Camshaft - Center
15		(CO)Y400G-229	1	Bushing, Camshaft - Rear
16		(CO)F2181-2030	1	Tappet Assembly, Valve
18		(CO)F2181-203	8	Tappet Only, Valve
19	**MS13998-1	(CO)F600L-253	8	Screw, Adjusting - Valve Tappet
20		(CO)F1621-204	8	Cap, Valve Stem - (roto)
21		(CO)Y400L-315	8	Spring, Valve - Intake and Exhaust
22		(CO)F400L-229	4	Guide, Valve Stem - Exhaust
23		(CO)F400L-230	4	Guide, Valve Stem - Intake
23A	**MS13997-1	(CO)F400A-288	4	Insert, Valve Seat - Exhaust (roto)
24	**MS13999-3	(CO)F1621-203	16	Lock, Retainer - Valve Spring (roto)
24	**MS13999-8	(CO)F400L-228	8	Seat, Valve Spring
25		(CO)F1621-202	4	Valve, Exhaust
		(CO)F1621-201	4	Valve, Intake
		(CO)F400L-210	1	Bushing, Oil Pump Drive Shaft (In Crankcase)
26		(CO)F600L-41319	1	Pump Assembly, Oil
27		(CO)D600H-205	1	Gear, Oil Pump Drive
		(CO)X-17021	1	Pin - 3/16 x 15/16 - Oil Pump Drive Gear to Shaft

WHEN ORDERING PARTS, BE SURE TO INCLUDE MODEL, SERIAL, AND SPEC. NUMBER OF THE UNIT.

28	(CO)F600L-4130	1	Body Assembly, Oil Pump - Includes Body and Bushing
29	(CO)D600L-274	1	Bushing, Oil Pump Drive Shaft - (In Pump Body)
30	(CO)F2181-204	1	Shaft, Drive Oil Pump
31	(CO)X-584	1	Key, Woodruff No. 3 - Oil Pump Drive Gear to Shaft
32	(CO)F600H-217	1	*Gear, Driver - Oil Pump
33	(CO)F600H-218	1	*Gear, Idler - Oil Pump
34	(CO)8UL-212	1	Stud, Oil Pump Idler Gear
35	(CO)D600L-204	1	Ring, Snap - Oil Pump Drive Shaft
36	(CO)C400L-231	1	Gasket, Oil Pump Cover
37	(CO)F400L-2511	1	Cover Assembly, Oil Pump
38	(CO)17EL-204	1	Gasket, Oil Pump Strainer Frame
39	(CO)17EL-300	1	Frame, Oil Pump Strainer Screen
40	(CO)C400L-228	1	Spacer, Oil Pump Suction Cup
41, 42	(CO)13XX-5798	6	Screw and Washer, Oil Pump Assembly
43	(CO)D600L-2120	1	Screen Assembly, Oil Pump Strainer
44	(CO)13XX-20040	1	Stud, Oil Pump To Bearing Cap - 3/8-16 x 1-1/2"
45	(CO)13XX-203	1	Washer, Oil Pump to Bearing Cap - 3/8
46	(CO)13XX-1802G	1	Nut, Oil Pump to Bearing Cap - 3/8-16
	(CO)13XX-14294	1	Washer, 3/8 x 1/8" - Between Brg. Cap and Oil Pump Mtg. Lug

FIG. 4 - WATER PUMP PARTS GROUP

1	(CO)F400T-202	1	Kit, Water Pump Repair Parts - Contains Parts Marked (#).
2	(CO)F400K-39415	1	Pump Assembly, Water - Complete - Permanently Lubricated
3	(CO)13XX-3794	4	Screw, Cover to Body
4	(CO)F400K-392	1	Cover, Water Pump
5	(CO)F400K-391	1	# Gasket, Water Pump Cover
6	(CO)F400K-393	1	# Impeller, Water Pump
7	(CO)N62K-211	1	# Seal, Water Pump
8	(CO)F400K-291	1	# Shedder, Water
9	(CO)X-7022	1	# Ring, Bearing Seat
	(CO)F226K-2230	1	# Shaft and Bearing
	(CO)PF140-2600	1	Tube, Water By-Pass - Includes Nuts
		1	Brushing Reducing - 3/4 to 1/2, at Service Tee

QTY.	ONAN PART NO.	PRIME MFR. PART NO.	QUAN USED	DESCRIPTION
				FIG. 4 - WATER PUMP PARTS GROUP (CONT.)
1		(CO)X-5035	1	Connection, Cyl. Water Outlet Elbow
1		(CO)X-5036	1	Connection, Water Pump Body
2		(CO)F400K-418	1	Body, Water Pump
3		(CO)X-7021	1	# Retainer, Water Pump Bearing
4, 15		(CO)13CX-3899	2	Screw and Lock washer, Fan Belt Adjusting Flange - 1/4-20 x 1/2"
3		(CO)13X8UK-205	2	Lock, Nut - Fan Belt Adjusting Flange
7		(CO)F400K-385	1	Hub, Fan
3		(CO)12AK-203	1	Flange, Fan Belt Adjusting
3, 20		(CO)13XX-5793	2	Screw and Lockwasher - 3/8-16 x 2-1/4" - Water Pump To Cylinder
3		(CO)13XX-3939	1	Screw - 3/8-16 x 2-1/4" - W. Pump to Cylinder
1		(CO)13XX-3979	1	Screw and Lockwasher - 3/8-16 x 1-1/4" - Water Pump to Cylinder
2		(CO)X-14134	1	Washer, Copper - 3/8" - Water Pump to Cylinder
3		(CO)F400K-340	1	Gasket, Water Pump to Cylinder Block
				# Parts contained in repair kit.
				FIG. 5 - OIL FILL, DRAIN AND FILTER GROUP
1		(FR)5241	1	Cover, Oil Filter - Includes Attaching Screw
1		(FR)11580	1	Screw, Cover - Oil Filter
1		(FR)11581	1	Gasket, Cover Screw - Oil Filter
1		(FR)11582	1	Gasket, Cover - Oil Filter
1		(FR)C21P2	1	Cartridge, Replacement - Oil Filter
1		(FR)11564	1	Spacer, Cartridge - Oil Filter
1		(FR)5310	1	Body, Oil Filter
1		(FR)11584	1	Plug, Pipe - Oil Filter Drain
1		(FR)12384	1	Nut, Oil Filter - Strap
1		(FR)10113	1	Washer, Lock - Oil Filter Strap
1		(FR)102153	1	Strap, Oil Filter Mounting
1		(FR)12420	1	Bolt, Oil Filter Strap
1		(FR)F21-P2	1	Filter, Oil - Complete With Cartridge - Military Standard Junior Filter

WHEN ORDERING PARTS, BE SURE TO INCLUDE MODEL, SERIAL, AND SPEC. NUMBER OF THE UNIT.

2	122A107	▲	1	Bracket, Oil Filter Mounting
3	122A103	▲	1	Line, Oil Filter Return
4	122A102	▲	1	Line, Oil Filter Pressure
5	520A221	▲	2	Stud, Oil Filter Mounting
6	505-7		1	Bushing, Pipe Reducer - 1/4 x 1/8" - Cyl. Blk. Oil Pressure Outlet
7	502-1	(WH)550x4	2	Tee, Inverted - Oil Pressure Line
8	502-3	(WH)200x4	1	Connector, Inverted Male - Oil Filter Return Line
9	502-20	(WH)3400x2	1	Elbow, Street - Oil Filter Inlet
0	505-275		1	Nipple, Pipe - Oil Drain - 1/2" x 8" Lg.
1	504-11	(ADR) 189A	1	Valve, Oil Drain
2	505-2		1	Nipple, Pipe - 1/2 x 3" Lg. - Oil Drain
3	505-56		1	Plug, Pipe - 1/2" - Oil Drain Tee
4	505-108		1	Tee, Pipe - 1/2" - Oil Drain
5	102A250		1	Bracket, Securing - Oil Drain
6	123A20	▲	1	Cap, Oil Fill
7	123B96	(DN)S-66	1	Neck, Oil Fill
	502-2	▲	1	Elbow, Inverted Male - Oil Filter Return Line to Cyl. Block
	505-50	(WH)400 x 4	1	Elbow, Street - 1/2" - Black Pipe - Oil Drain to Crankcase
				FIG. 6 - FUEL TANK, PRIMER, LINES AND FITTINGS GROUP
	149B321	(DV)PR-5302	1	Pump, Fuel Primer - Per Military Spec MIL-P-3306 Class 1
	149-230	(DV)PR-20-700	1	Nozzle, 90° Elbow - Primer System at Manifold
	149-231	(DV)PR-20-1100	1	Nozzle, Tee - Primer System at Manifold
	149A496	▲	1	Line, Fuel - 1/8" Tubing - Primer to Intake Manifold
	149A497	▲	1	Line, Fuel - 1/8" Tubing - Primer Tee Nozzle to Elbow Nozzle
	501A66	▲	1	Line, Fuel - Low Temperature Flexible, 24-1/2" - Filter to Fuel Pump
	501A65	▲	1	Line, Fuel - Low Temperature Flexible, 16" - Auxillary Inlet to 3 Way Valve
	501A65	▲	1	Line, Fuel - Low Temperature Flexible, 11" - Valve to Filter
	501A57	▲(EHR)3479	1	Line, Fuel - Low Temperature Flexible, 10" - Primer to Filter
	501A53	▲	1	Line, Auxillary Fuel - Low Temperature Flexible - 20 ft.
	501A47	▲	1	Line, Fuel - Low Temperature Flexible, 8" - Fuel Filter Drain
	149A394	▲	1	Line, Fuel - 1/4" Tubing - Carburetor to Pump
3	332-51	(TNP)3044-4	2	Clip, Fuel Line - 1/2" dia. - Secures Primer Line and Filter to Pump

Line to Bottom Component

REF. NO.	ONAN PART NO.	PRIME MFR. PART NO.	QUAN USED	DESCRIPTION
FIG. 6 - FUEL TANK, PRIMER, LINES & FITTINGS GROUP (CONT.)				
15	159C436	▲ (IB) 108HD	1	Tank, Fuel - 6-1/2" Gal. Capacity
16	504-33	(WH)434x5	1	Valve, Shut-Off - Fuel Tank
17	502-42	(WH)3326X4	1	Elbow, Inverted Male - Shut-Off Valve
18	502-47	(WH)3326X4	1	Nipple, Close - Shut-Off Valve
19	502-54	(WH)3400x4	1	Elbow, Street - Shut-Off Valve
20	502-50	(WH)135	1	Bushing, Pipe Reducer - 3/8 x 1/4" - Fuel Tank
21	504-5	▲	1	Valve, Drain - Fuel Tank
22	7353	▲	2	Band, Fuel Tank Mounting
23	159B357	▲ Sig. #SC-B-47853	1	Cap, Fuel Tank - With Chain
24	415A68	▲	1	Adapter, Tube and - With Elbow - For Auxiliary Supply Fuel Drum.
25	502-165	(WH)49x5A	1	Elbow, Male S.A.E. - Auxiliary Fuel Drum Adapter and Tube
26	502-2	(WH)400x4	1	Elbow, Inverted Male - Fuel pump
27	502-35	(WH)234x5	1	Connector, Inverted Male - Fuel Filter Inlet from Tank
28	502-41	(WH)434x4	2	Elbow, Inverted Male - (1) Fuel Filter Outlet to Primer (1) Fuel Filter Outlet to Fuel Pump
29	159A366	§	1	Plug, Auxiliary Fuel - Complete with Chain
30	502A166	(WH)48x5	1	Connector, Male - Auxiliary Fuel Connector Cap
	813-102	(GM)132911	2	Screw, Rd. Hd. - Machine - #10-32 x 5/8" - Mtg. Fuel Line Clip
	870-53		2	Nut, Hex - #10-32 - Mtg. Fuel Line Clip
	860-15	(GM)134556	4	Nut, Hex - 5/16-18 - Mtg. Fuel Tank Bands
	850-30	(GM)120217	2	Washer, Lock - #10 Med.-Mtg. Fuel Line Clip
	850-45	(GM)120214	4	Washer, Lock - 5/16" Med.-Mtg. Fuel Tank Band
FIG. 7 - FUEL SYSTEM GROUP				
	153B168	● (PG)AC777C, 24V	1	Choke, Manual - 24-1/2" Lg.
	153-146	▲	1	Choke, Electric - 24V. - Sisson
	7340	▲	1	Bracket, Choke - Adapts Manual Choke
	153A159	▲	1	Link, Electric Choke - 5/32" Dia. Rod
	518-6	(US) 4L	1	Clip, Rod End - Choke

WHEN ORDERING PARTS, BE SURE TO INCLUDE MODEL, SERIAL, AND SPEC. NUMBER OF THE UNIT.

526-3			1	Washer, Flat Steel - 3/8" O.D. - Electric Choke Link
516-81			1	Pin, Cotter - 1/16 x 5/8" - Electric Choke Link
153A14	▲ ORD #7418422		1	Stop, Choke Wire - Includes modified acorn brass nut with #8-32 screw
140B303	(DN)E-652		1	Cleaner, Air
140A78	(DN)P-7191		2	Band, Air Cleaner Mtg.
140B323			1	Bracket, Air Cleaner Mtg.
503A234	§ (WM)Type 861A		1	Hose, Air Cleaner - 1-1/2" I.D. x 31" Lg. Wiremold
503A225	▲		1	Hose, Breather - (for -65° Temp.) - 5/8 ID x 7/8 OD x 23" Lg. - Valve Cover to Air Cleaner
505-19			1	Bushing, Pipe Reducer - 1/2 to 3/8" - Breather Hose to Valve Cover
505A276			1	Nipple, Pipe Half - 3/8 x 4" - Breather Hose to Valve Cover
503P131	(CRB)CS-14		2	Clamp, Hose - Breather Hose
503-130	(CRB)C-20		2	Clamp, Hose - Air Cleaner Hose
143C21	(CAR)UT-2054S		1	Carburetor - (Refer to separate group for component parts)
502-2	(WH)400x4		1	Elbow, Inverted Male
520A223	▲		2	Stud - 5/16 x 1-1/4" - Carburetor Mounting
155A10	(VG)5125 Type E		1	Gasket, Carburetor Mounting - Equivalent to (CO)#NF-104
152B63	●		1	Control, Manual Throttle
151A132	▲		1	Bracket, Manual Throttle Control
153A69	▲		1	Clip, Bowdlen Wire - Manual Throttle
149P457	§		1	Pump, Fuel - per U.S. Spec 72-53, for -65° operation
149K508	▲		1	Kit, Fuel Pump Repair Parts
149P175	(CO)16EV201		1	Gasket, Fuel Pump Mtg.
149-287	(AC)1595229		1	Filter, Fuel
149-317	(AC)1595654		1	Element, Fuel Filter Cleaner - Permanent Brass Disc Type - Includes Gaskets
504-29	(AC)853572 plus,		1	Gasket Set, Fuel Filter - Consists of Element and Bowl Gasket.
149A446	(IB)#57SAE		1	Valve, Drain - Fuel Filter Drain - 2 Way
149C343	▲		1	Bracket, Fuel Filter Support
810-146	▲		1	Bracket, Fuel Filter
813-97	(GM)113974		2	Screw, Rd. Hd. Brass Machine - 1/4-20 x 3/8" - Mtg. Electric Choke
104A91	(GM)121540		1	Screw, Rd. Hd. Machine - #10-32 x 5/16" - Mtg. Throttle Wire Clip
850-50	ORD #120369		2	Nut, Hex - 3/8-24 - Mtg. Carburetor
854-14	(GM)120382		2	Washer, Lock - 3/8" Med. - Mtg. Carburetor
	(SK)1214-00		2	Washer, Shakenroof - I.T. 1/4" - Mtg. Electric Choke

PARTS LIST

Q.F. D.	ONAN PART NO.	PRIME MFR. PART NO.	QUAN USED	DESCRIPTION
				FIG. 8 - CARBURETOR PARTS GROUP
	143C21	(CAR)UT-2054S	1	Carburetor - Carter Updraft
	143K60	(CAR)1-1062S	1	Klt, Carburetor Gasket - Includes parts marked (#)
	143-23	(CONF)-104	1	Body Assy., Throttle
	143-25	(CAR)2-147	1	#Gasket, Flange - Interchangeable with (CAR)#1A-48
	143-26	(CAR)3-846S	1	Valve, Throttle
	143-27	(CAR)7-175S	1	Shaft and Lever, Throttle
	143-28	(CAR)11-236S	1	Valve, Choke
	143-29	(CAR)11B-42	1	Jet, Low Speed
	143-30	(CAR)11B-79	2	Plug, Rivet
	143-31	(CAR)11B-108	1	Plug, Rivet
	143-32	(CAR)11B-194	1	Plug, Idle Port Rivet
	143-33	(CAR)12-385S	1	Plug, Bowl Drain
	143-34	(CAR)14-367S	1	Nozzle
	143-35	(CAR)20-22	1	Shaft and Lever, Choke
	143-36	(CAR)20-110	2	#Gasket, Nozzle
	143-37	(CAR)21-121S	1	#Gasket, Main Metering Screw
	143-38	(CAR)24-15	1	Float and Lever
	143-39	(CAR)25-179S	1	Pin, Float Lever
	143-40	(CAR)30A-37	1	Needle and Seat
	143-41	(CAR)39-10	1	Screw, Idle Adjustment
	143-42	(CAR)47-26	4	Screw, Throttle and Choke Valve Attaching
	143-43	(CAR)58-93	2	Plug, Welch
	143-44	(CAR)61-84	1	Venturi
	143-45	(CAR)101-160S	1	Spring, Idle Adjustment Screw
	143-46	(CAR)101-246	4	Screw and Washer, Body Attaching
	143-47	(CAR)121-221	1	Screw, Throttle Adjusting
	143-48	(CAR)136-130	1	#Gasket, Body
	143-49	(CAR)136-131	1	Retainer, Air Horn Dust Seal
		(CAR)159-135S	2	Retainer, Choke and Throttle Shaft Dust Seal
			2	Screw and Needle, Adjustable Main Metering

WHEN ORDERING PARTS, BE SURE TO INCLUDE MODEL, SERIAL, AND SPEC. NUMBER OF THE UNIT.

PARTS LIST

29	143-50	(CAR)163-21	2	Seal, Choke and Throttle Shaft Dust
30	143-51	(CAR)163-52	1	Felt, Air Horn Drain
31	143-52	(CAR)163-53	1	Packing, Main Metering Screw
				FIG. 9 - IGNITION GROUP
1	161C158	(FBM)XVE4C69	1	Magneto
2	166A103	(AL)IG-2860	1	Clamp, Magneto - Includes Mtg. Hardware
3	167-70	(AL)BR4S	4	Plug, Spark - Resistor Type Shielded
4	167A1228	▲	1	Cable, Spark Plug - Special Shielded - #1 Cylinder
4	167A1229	▲	1	Cable, Spark Plug - Special Shielded - #2 Cylinder
4	167A1237	▲	1	Cable, Spark Plug - Special Shielded - #3 Cylinder
4	167A1238	▲	1	Cable, Spark Plug - Special Shielded - #4 Cylinder
5	314B81	▲	1	Box, Stop Relay
5	314B82	▲	1	Cover, Stop Relay Box
7	307B265	▲	1	Relay, Stop - SPDT - 15 Volt DC - Pull-In at 6 to 9 Volts DC, Drop Out at 2 Volt Minimum per Military Spec MIL-P-3115 and JAN-T-152 and JAN-C-173 and JAN-V-1137 and Plating per Spec 72-53
3	312P83	(CLD)NF10284-1	3	Capacitor, Feed Through - 1.75 MFD, 20 Amp, 100 Volt DC
3	336A905	▲	1	Lead, Magneto Stop - #16 Shielded Aircraft, Per Spec JAN-C-76 plus Shield
10	308-86	(CH)8824K5	1	Switch, Toggle - 2P2T, 6A, 125V, per Spec JAN-C-23
	812-61	(GM)132696	6	Screw, Rd. Hd. Machine - #6-32 x 3/8" - Mtg. Capacitors
	812-75	(GM)122159	2	Screw, Rd. Hd. Machine - #8-32 x 1/4" - Mtg. Relay to Box
	860-5	(GM)134530	6	Nut, Hex - #6-32 - Mtg. Capacitors
	856-1	(SK)4006-14-00	13	Washer, Shakeproof - IET - #6 - Mtg. Capacitors
	856-2	(SK)4008-14-00	2	Washer, Shakeproof - IET - #8 - Mtg. Switch

REF. NO.	ONAN PART NO.	PRIME MFR. PART NO.	QUAN USED	DESCRIPTION
	161-158	(FBM)FM-XVE4C69	1	FIG. 10 - MAGNETO PARTS GROUP
1	161-165	(FBM)C2474E	1	Magneto Assy., Fairbanks Morse - Vertically Mounted, Offset Forked Coupling
2		(FBM)8S8D	1	Driven, Integrally Shielded, and Impulse Coupling
3		(FBM)A983B	4	Block, Magneto Distributing
4		(FBM)C6120	1	Screw, Distributing Block - #8-32 x 1/2"
		(FBM)C2430A	1	Lead and Suppressor Assembly, High Tension
5	161-120	(FBM)10S8D	1	Clip, Magneto Coil
6		(FBM)10S10D	2	Cap, End - Includes (2) Vent Hoods and Screens
7	161A42	(FBM)B6340	2	Screw, End Cap
8		(FBM)K2498	1	Seal, Bearing Support Felt
		(FBM)GZ2425	1	Gasket, End Cap to Frame
		(FBM)H2477C	1	Frame, Magneto
9	161-47	(FBM)6S3N	1	Coil, Magneto
10	161-30	(FBM)6LW1	1	Screw, Coil Clip - #6-32 x 3/16"
11		(FBM)25S12A	1	Washer, Lock - Magneto Coil Clip Screw - #6
12	161-34	(FBM)B5949	2	Setscrew, Magneto Coil Bridge
13	161-128	(FBM)C2492	1	Bearing, Ball - Magnetic Rotor Drive End
14	161-122	(FBM)A2492A	1	Washer, Rotor Shaft Seal - Inner
15		(FBM)E2303	1	Washer, Rotor Shaft Seal - Outer
16		(FBM)E5963	1	Disc, Oil Slinger Baffle
17	161-51	(FBM)YY2563	2	Spring, Impulse Coupling Pawl
18	161-84	(FBM)D2565	1	Hub, Impulse Coupling - Includes E5963 Springs
19		(FBM)A5931B	1	Spring, Impulse Coupling Drive
20		(FBM)B5950	1	Washer, Lock - Impulse Coupling Nut
21		(FBM)F2624	2	Bearing, Drive
22		(FBM)D2671	1	Shaft Assembly, Drive
		(FBM)D2671C	1	Housing and Bearing Assembly, Drive
		(FBM)25S8G	1	Housing and Shaft Assembly, Drive
		(FBM)D2569	4	Screw, Drive Housing - 1/4-20 x 1/2"
		(FBM)L1515	1	Washer, Drive Shaft Thrust
			1	Drive Member

WHEN ORDERING PARTS, BE SURE TO INCLUDE MODEL, SERIAL, AND SPEC. NUMBER OF THE UNIT.

23	161-133	(FBM)D5931D	1	P'in, Drive
24		(FBM)K2570	1	Nut, Impulse Coupling
25		(FBM)3K1	1	Key - Rotor to Impulse Coupling
26		(FBM)QZ563C	1	Coupling, Assembly, Impulse - Includes YY2563 Hub, D2565 Spring and GY5957 Shell
27		(FBM)GY5957	1	Shell, Impulse Coupling
28	161-62	(FBM)S2568	1	P'in, Stop - Impulse Coupling Pawl
29		(FBM)G3861	1	Seal, Magnetic Rotor Shaft
30		(FBM)A6304	1	Seal, Bearing Oil
31	161-56	(FBM)C2723	1	Shim, Magnetic Rotor Shaft
32		(FBM)D2492	1	Washer, Spacer - Ball Bearing to Seal - (Opposite Drive End)
33		(FBM)PW2480	1	Rotor Assembly, Magnetic
34		(FBM)E6304A	1	Seal, Magnetic Rotor Bearing
35		(FBM)C5949A	1	Bearing, Ball - Rotor (Opposite Drive End)
36		(FBM)A2636	1	Plate, End Cap
37	161-16	(FBM)10S6G	2	Screw, End Cap Plate - #10-24 x 3/8"
38	161-45	(FBM)B1355	1	Guide, primary Ground Strip
39	161-46	(FBM)6S8N	1	Screw, primary Ground - #6-32 x 1/2"
40		(FBM)6N1	1	Nut, primary Ground - #6-32
41		(FBM)6LW1	1	Washer, Lock - Primary Ground
42	161-37	(FBM)H2457A	1	Bushing, Primary Ground Insulating
43		(FBM)D2458	2	Washer - (1) Contact Support Locking Screw Plate, (1) Primary Ground Strip, Primary Ground
44	161A64	(FBM)B3969	X	Terminal - Part of Stop Lead Assy.
45		(FBM)C6018	X	Washer, Insulating - Part of Stop Lead Assy.
46		(FBM)D1077	X	Ferrule - Part of Stop Lead Assy.
47	161A12	(FBM)B2735A	X	Nut - Part of Stop Lead
48		(FBM)A1166	1	Insulator - Stop Lead Terminal - Avail. Separately, also supplied with Stop Lead
49	161-81	(FBM)B1232	2	Hood, Vent
50	161-38	(FBM)6S6N	2	Screw, Hood Vent - #6-32 x 3/8"
51	161-60	(FBM)A6032A	2	Screen, Vent
52		(FBM)E2460B	1	Brush and Spring Assembly
53		(FBM)M2765	1	Rotor, Distributing
54		(FBM)H3037	4	Terminal High Tension Cable - Part of Cable Assy

REF. NO.	ONAN PART NO.	PRIME MFR. PART NO.	QUAN USED	DESCRIPTION
				FIG. 10 - MAGNETO PARTS GROUP (CONT.)
52		(FBM)B1498G	1	Ring, Snap - Fulcrum Pin
53		(FBM)F2788	1	Wick and Holder Assembly, Cam Felt
54	161-78	(FBM)B5969	1	Washer, Contact Support Locking Screw
55	161-66	(FBM)A4361	1	Terminal, Lead Wire - For #8 Screw
56	161-166	(FBM)A2437A	1	Point Set, Ignition Contact - Fairbanks Morse Magneto
		(FBM)6S5N	1	Screw, Breaker Arm Terminal - #6-32 x 5/16"
	161-116	(FBM)6LW2	1	Washer, Lock - Breaker Arm Terminal Screw - #6
		(FBM)6S6N	1	Screw, Contact Support Locking - #6-32 x 3/8"
	161-116	(FBM)6LW2	1	Washer, Lock - Contact Support Locking Screw - #6
		(FBM)8S6N	1	Screw, Contact Support Locking - #8-32 x 3/8"
57	161-27	(FBM)8LW3	1	Washer, Lock - Contact Support Locking
58		(FBM)L2788	1	Wick, Felt - Breaker Arm
		(FBM)U4631	1	Support, Bearing
		(FBM)8S6D	4	Screw, Bearing Support - #8-38 x 3/8"
				FIG. 11 - CRANKING GROUP
	191P69	(AL)MCZ4105-T	1	Motor, Starting - 24V - Fungus Treated per Military Spec JAN-T-152, Refer to Starting Motor Parts Group for Service Parts.
			1	Spacer, Starting Motor
	191A76		2	Stud, Starting Motor Mounting - 7/16 x 2-5/8"
	520A398		2	Battery - 12V, Dry Charged - 45 Amp. Hr. - Domestic Packed per MIL-B-11188
	416-236	(WB)2HN	1	Cable, Battery Jumper - 5"
	416A1		1	Cable, Battery - 17" - Negative to Ground
	416A17		1	Cable, Battery - 28" - Positive to Starter
	416A77		1	

WHEN ORDERING PARTS, BE SURE TO INCLUDE MODEL, SERIAL, AND SPEC. NUMBER OF THE UNIT.

FIG. 12 - STARTING MOTOR PARTS GROUP

191P69	(AL)MCZ4105-T	1	Motor, Starting - Auto-Lite, 24 Volt - Fungus Treated
			FRAME & FIELD ASSEMBLY & PARTS USED WITH
	GK-20C	2	Bolt, Thru
	MCZ-2046S-1	1	Frame & Field Assy. - It is necessary to replace the frame and field assembly if field coils are required. This is due to fungus treatment. Includes Brush Set
	12X-199	2	Washer, Lock - 1/4" - Thru Bolt
	12X-200	1	Washer, Lock - 5/16" - Terminal Stud
	X-3130	1	Nut, Term. Stud Hex. - 5/16-18
	MCS-1012S	1	Brush Set - (Part of Frame and Field Assy.)
	X-20	2	Screw, Rd. Hd. - #10-32 x 5/16" - Brush Ground (Part of Frame & Field Assy.)
	12X-196	2	Washer, Lock - #10 - Brush Ground Screw (Part of Frame and Field Assy.)
			COMM. END HEAD ASSEMBLY & PARTS USED WITH
	MCZ-2002	1	Head Assy., Commutator End
	MAD-110	1	Felt
	MZ-19C	4	Spring, Brush
			ARMATURE ASSEMBLY & PARTS USED WITH
	MCH-96	1	Washer, Thrust - Conn. End
	MCZ-2047F	1	Armature
	MN-18A	1	Washer, Thrust - Drive End
	MU-54	A.R.	Washer, Thrust - Commutator End - 1/32" Thick
	MU-54B	A.R.	Washer, Thrust - Commutator End - 3/64" Thick
			SWITCH ASSEMBLY & PARTS USED WITH
	MCZ-82	1	Connector
	SAA-4002T	1	Switch, Solenoid Starting
	SSX-34A	1	Spring, Plunger
	SSX-36A	1	Plug, Spring
	SSX-1021D	1	Core Assy., Moving
	SS-60C	1	Washer, Steel - 3/8" (Part of Moving Core Assy.)
	SSX-21	1	Core, Moving - (Part of Moving Core Assy.)

REF. NO.	ONAN PART NO.	PRIME MFR. PART NO.	QUAN USED	DESCRIPTION
FIG. 12 - STARTING MOTOR PARTS GROUP (CONT.)				
21		X-15	1	Screw, Rd. Hd. - #8-32 x 5/8" - (Part of Clamp Assy.)
22		X-3217	1	Nut, Hex. - #8-32 - (Part of Clamp Assy.)
23		12X-199	4	Washer, Lock - 1/4" - Switch Mtg. Screw
24		12X-200	1	Washer, Lock - 5/16" Switch Terminal
25		X-467A	4	Screw, Hex. Hd. - 1/4-20 x 3/8" - Mtg. Switch to Starter Frame
26		X-3130	1	Nut, Hex - 5/16-18 Switch Terminal
CLUTCH ASSEMBLY & PARTS USED WITH				
27		MCH-76A	1	Pin, Link
28		MCH-2074A	1	Yoke
29		MCL-58A	1	Pin, Yoke
30		MCL-59A	1	Clamp, Yoke Cover
31		MCS-3048	1	Cluth, Starter
		MCZ-61	1	Cover, Yoke
32		X-401A	1	Pin, Cotter - 1/16 x 3/8 - Link Pin
MISCELLANEOUS PARTS				
33		MCH-1024B	1	Band, Cover
34		MCS-46A	1	Retainer & Pinion Stop
35		MCS-47A	1	Ring, Snap - Retainer and Pinion Stop
36		PS-1309	1	Housing Assy., Pinion
37		MP-41A	1	Bearing, Abs. Bronze - (part of Pinion Hsg. Assy.)

WHEN ORDERING PARTS, BE SURE TO INCLUDE MODEL, SERIAL, AND SPEC. NUMBER OF THE UNIT.

FIG. 13 - CHARGING GENERATOR & CHARGE REGULATOR GROUP				
1	191P70	(AL)GHP-6002-AT-1, plus SP-1913A	1	Generator, Charging - 24V, 18A, Fungus Treated per Military Spec JAN-T-152 - Includes Pulley - Refer to Charging Generator Parts Group for Service Parts.
2	191P71	(AL)VEJ-6003AT	1	Regulator, Charging Voltage - 24V, 18A, Neg. Grd., Fungus Treated per Military Spec JAN-T-152
3	232A230	(CO)Y400M-278	1	Strap, Chg. Generator Adjusting
4	191B79	▲	1	Bracket, Chg. Generator Mounting
		(CO)13XX-19002	4	Stud, 3/8-16 x 1-1/4" - Generator Bracket to Crankcase
		(CO)13XX-1802-G	4	Nut, 3/8-16 - Generator Bracket to Crankcase
		(CO)13XX-14215	4	Washer, Lock - 3/8" - Generator Bracket to Crankcase
5	305C154	▲	X	Shield Assembly, Regulator and Suppression- Complete - Not serviced as an Assy.
6	314C73	▲	1	Box, Charge Regulator Shield
7	314A71	▲	1	Cover, Shield Box
8	314A72	▲	1	Panel, Shield Box
9	312P83	(CLD)NFI0264-1	2	Capacitor, Feed Through 1.75 MFD, 20A, 100V DC
	812-61	(GM)132696	4	Screw, Rd. Hd. - Maching #6-32 x 3/8" - Regulator And Shield Assy.
	813-98	(GM)132900	13	Screw, Rd. Hd. - Maching #10-32 x 3/8 - Regulator And Shield Assy.
	813-107	(GM)132926	2	Screw, Rd. Hd. - Machine #10-32 x 1-1/4" - Regulator And Shield Assy.
	812-148	(GM)120628	3	Screw, Rd. Hd. - Machine #1/4-20 x 1/2" - Regulator and Shield Assy.
	860-5	(GM)134530	4	Nut, Hex - #6-32 - Regulator and Shield Assy.
	870-53		2	Nut, Hex - #10-32 - Regulator and Shield Assy.
	860-13	(GM)120375	3	Nut, Hex - 1/4-20 - Regulator and Shield Assy.
	856-1	(SK)4006-14-00	8	Washer, Shakeproof - IET #6 - Regulator and Shield Assy.
	853-8	(SK)1110-00	17	Washer, Shakeproof - ET, #10 - Regulator and Shield Assy.
	856-6	(SK)4014-20-00	6	Washer, Shakeproof - IET - 1/4" - Mtg. Regulator to Box
	856-9	(SK)4018-32-00	6	Washer, Shakeproof - IET - 5/16" - Gen. Armature and Gen. Cap Nuts
	856-11	(SK)4020-32-00	5	Washer, Shakeproof - IET - 3/8" - Mtg. Charging Generator
	402P121	(USR)B323	3	Cushion, Rubber Mounting - Charge Regulator

(▲) Part is made to Onan Print & Specification.

REF. NO.	ONAN PART NO.	PRIME MFR. PART NO.	QUAN USED	DESCRIPTION
	191P70	(AL)GHP-6002AT-1 plus (AL)SP-1913A	1	FIG. 14 - CHARGING GENERATOR PARTS GROUP Generator, Charging - Autolite 24V, 18A - Fungus Treated - Current Voltage Regulator is used with but not part of this generator.
1		DK-23D	2	FRAME & FIELD ASSEMBLY & PARTS USED WITH Bolt, Thru
2		GHP-2001S-1	1	Frame and Field Assy. - Includes Field Colls - Frame and Field Assy. must be replaced if field colls are required due to Fungus Treated
3		X-20	1	Screw, Rd. Hd. #10-32 x 5/16" - Ground
4		12X-196	2	Washer, Lock - #10- Field Terminal and Ground Screw
5		12X-199	1	Washer, Lock - 1/4" - Arm. Terminal
6		12X-1014	2	Washer, Lock - 5/16" - Thru Bolt
7		X-1649	1	Nut, Hex - 1/4-28 - Arm. Terminal
8		X-2853	1	Nut, Hex - #10-32 - Field Terminal
9		GBW-2012CS	1	COMM. END HEAD ASSEMBLY & PARTS USED WITH Brush Set, Service
10		GHP-2002S	1	Head Assy., Commutator End - Includes next 10 items
11		GGU-33	1	Gasket, Commutator End Cover
12		GGU-34B	1	Cover, Commutator End
13		GGU-41	1	Wick, Felt
14		GGU-1002G	1	Head Assy., Partial - Commutator End
15		GBW-45A	1	Spring, Brush - Part of Partial Head Assy.
16		GCJ-26B	2	Arm, Brush - Part of Partial Head Assy.
17		GGU-38A	1	Bearing, Abs. Bronze - Part of Partial Head Assy.
18		12X-195	3	Washer, Lock - #8 - Cover Screw
19		X-489A	1	Oilier
20		X-1754	1	Screw, Fill. Hd. - #8-32 x 5/16 - Cover
21		12X-195	3	Washer, Lock - #8 - Lead Screw
22		8X-305	2	Screw, Rd. Hd. #8-32 x 1/4 - Brush Lead

WHEN ORDERING PARTS, BE SURE TO INCLUDE MODEL, SERIAL, AND SPEC. NUMBER OF THE UNIT.

23	GBM-21C		1	ARMATURE ASSEMBLY & PARTS USED WITH Nut, Armature Shaft - Drive End
24	GHE-2006AFT		1	Armature Assy.
25	GAR-171A		1	Ring Snap - (Part of Armature Assy.)
26	GR-32B		1	Retainer, Felt Washer
27	SP-1913A		1	Pulley, Drive
28	X-261		1	Key, Woodruff #6 - Pulley Mounting
29	12X-864		1	Washer, Lock - Shaft - Drive End
30	GGU-1003C		1	DRIVE END HEAD ASSEMBLY & PARTS USED WITH Head Assy., Drive End
31	GBM-124		1	Gasket, Bearing Retainer
32	GBM-125A		1	Retainer, Felt Washer, Inner
33	GBM-127A		1	Retainer, Bearing
34	GBM-128A		1	Retainer, Felt Washer, Outer
35	GG-164		2	Washer, Felt
36	GGU-3C		1	Head, Drive End
37	GGW-52A		3	Screw, Bearing Retainer
38	12X-196		3	Washer, Lock - #10 - Retainer Screw
39	X-295		1	Bearing, Ball - SAE #203
40	X-489A		1	Oilier
41	GCE-24P		1	MISCELLANEOUS PARTS Band, Cover
42	X-2875		1	Nut, Square #10-32 - Cover Band
43	X-2882		1	Screw, Fill/ Hd. - #10-32 x 1-1/2" - Cover Band

REF. NO.	ONAN PART NO.	PRIME MFR. PART NO.	QUAN USED	DESCRIPTION
	151P124			FIG. 15 - GOVERNOR PARTS GROUP
1		(HOF)GD-260-C	1	Governor - Complete - Includes Gear
2		(HOF)D164-143	1	Lever Assembly, Throttle
3		(HOF)D110-42	1	Spring, Throttle Lever Tension
4		(HOF)D132-76	1	Pin, Throttle Lever to Rocker Shaft
5		(HOF)D110-57	2	Spring, Speed Adjusting (120# Rate - Block)
6		(HOF)D165-17	4	Retainer, Flyweight Pivot Pin
7		(HOF)C132-59	2	Pin, Flyweight Pivot
8		(HOF)D164-118	2	Flyweight, Complete with Bearing and Pin
9		(HOF)D114-128	3	Screw - (1) Bearing to Cover, (2) Cover to Body
10		(HOF)D117-88	3	Washer, Lock - (1) Bearing to Cover, (2) Thrust Lever to Shaft
11		(HOF)D101-192	1	Cover, Body
12		(HOF)C147-3	1	Key, Gear to Shaft
13		(CO)F162H-300	1	Gear, Drive-(HOF)D171-11
14		(HOF)D117-76	1	Washer, Lock - Gear to Shaft
15		(HOF)H115-23	1	Nut, Gear to Shaft
16		(HOF)D133-18	1	Bearing, Front Main Ball
17		(HOF)D164-122	1	Shaft and Yoke, Main - Rotating and Flyweights Attaching Member
18		(HOF)D164-117	1	Sleeve, Thrust Bearing and
19		(HOF)D133-14	1	Bearing, Rear Main - Bushing Type
20		(HOF)D101-167	1	Body
21		(HOF)D133-10	2	Bearing, Needle - Rocker Shaft
22		(HOF)D150-89	2	Spacer, Welch Plug
23		(HOF)D140-18	1	Plug, Welch
24		(HOF)D164-120	1	Screw, Bumper - Complete with Spring and Nut
25		(HOF)D127-74	1	Shaft, Rocker
26		(HOF)D117-83	1	Washer, Felt - Rocker Shaft Sealing
27		(HOF)D117-72	1	Washer, Lever Spacer
28		(HOF)D114-106	1	Screw, Bushing to Body
29		(HOF)D117-87	1	Washer, Lock - Bushing to Body
		(HOF)D129-18	1	Bushing, Speed Adjusting Lever Pivot

WHEN ORDERING PARTS, BE SURE TO INCLUDE MODEL, SERIAL, AND SPEC. NUMBER OF THE UNIT.

1	520A479	(HOF)D114-124	2	Screw, Thrust Lever to Rocker Shaft
2	150A278	(HOF)D164-111	1	Lever and Yoke, Speed Adjusting
3	150A518	(HOF)D114-129	1	Screw, Adjusting
4	115-25	(HOF)C115-29	1	Nut, Lock - Speed Adjusting Screw
5	151A139	(HOF)D105-67	1	Lever, Rocker Thrust
				FIG. 16 - GOVERNOR LINKAGE & GOVERNOR MTG. GROUP
				Stud, Governor Linkage
				Joint, Governor Arm Ball - Tourek Type C-107-5 with Dust and Grease Grommet
				Extension, Governor Arm - Adapts Manual Idle Control
				Nut, Hex Steel - 1/4-28
				Gasket, Governor Mounting
				Gasket, Governor to Gear Cover - Upper - 3/8 Copper Asbestos
				Gasket, Governor Flange Plate
				Plate, Governor Flange (Kidney Shaped)
				FIG. 17 - EXHAUST GROUP
				Muffler, Exhaust - With Drain Hole
				Elbow, Black Pipe 90° - Exhaust
				Clamp, Exhaust Muffler
				Pipe, Exhaust - Bent and with reducer
				Tube, Flexible Exhaust
				Ring, Exhaust Pipe Clamp
				Coupling and Chain - Exhaust Tube Connections
				Chain and Cotter Pin
				Screw, Hex. Hd. Cap - 1/4-20 x 1/2" - Mtg. Muffler Clamp
				Screw, Hex. Hd. Cap - 1/4-20 x 1" - Tighten Muffler Clamp
				Nut, Hex - 1/4-20 - Muffler Clamp
				FIG. 18 - EXHAUST GROUP
				Muffler, Exhaust - With Drain Hole
				Elbow, Black Pipe 90° - Exhaust
				Clamp, Exhaust Muffler
				Pipe, Exhaust - Bent and with reducer
				Tube, Flexible Exhaust
				Ring, Exhaust Pipe Clamp
				Coupling and Chain - Exhaust Tube Connections
				Chain and Cotter Pin
				Screw, Hex. Hd. Cap - 1/4-20 x 1/2" - Mtg. Muffler Clamp
				Screw, Hex. Hd. Cap - 1/4-20 x 1" - Tighten Muffler Clamp
				Nut, Hex - 1/4-20 - Muffler Clamp

EF. O.	ONAN PART NO.	PRIME MFR. PART NO.	QUAN USED	DESCRIPTION
				FIG. 18 - RADIATOR GROUP
				Radiator
	130-285	(YAM)RD-LL-3446-C	1	Cap, Radiator - 4-1/2 lb. Pressure Type, Round without Ears
	130-290	(STN)AAM0836	1	Hose, Radiator Upper - For -65°F. operation - Per Military Spec ZZ-H-428, Type II, Grade A, Class A
	503A228	▲	1	Hose, Radiator Lower - For -65°F. operation - Per Military Spec ZZ-H-428, Type II, Grade A, Class 2.
	503A229	▲	1	Belt, Fan - For -65°F. operation - Per MIL-B-11040, Type I Group A - 46-1/2" outside length
	511-36	(GT) 250	1	Clamp, Hose - Radiator Hose
	503P129	(CRB)C24	4	Blades, Fan - 4 Blade
	130B276	(SZ)A-FQ4332	1	Valve, Radiator Drain - Includes Imperial Brass Co. #323E Valve
	504A40	§	1	Hose, Radiator Drain - For -65°F operation - 5/8" OD x 7-1/4" Lg.
	503-232	▲	1	Elbow, Pipe Street - Galvanized - Radiator Drain
	505-228	▲	1	Guard, Fan R. H. (opposite Carburetor Side)
	130C255	▲	1	Guard, Fan L. H. (Carburetor Side)
	130C256	▲	1	Screw, Hex Hd. Cap - 5/16-18 x 5/8" - Mtg. Fan Blades
	800-25	(GM)120228	4	Screw, Hex Hd. Cap - 1/4-20 x 1/2" - Radiator to Panel Bracket
	800-3	(GM)120706	2	Screw, Hex Hd. Cap - 5/16-18 x 3/4" - Fan Guard and Radiator to Mtg. Brkt.
	800-26	(GM)122007	4	Screw, Rd. Hd. Machine - #10-32 x 5/16" - Fan Guard Assy.
	813-97	(GM)121540	3	Nut, Hex - #10-32 - Fan Guard Assy.
	870-53	(GM)120614	3	Nut, Hex - 1/4-20 - Radiator Mtg. Brackets
	860-13	(GM)120375	2	Nut, Hex - 3/8-16 - Mtg. Radiator
	862-3	(GM)193228	2	Washer, Lock - #10 Med. - Fan Guard Assy.
	850-30	(GM)120217	3	Washer, Lock - 1/4" Med. - Rad. Mtg. Bracket to Panel
	850-40	(GM)120380	2	Washer, Lock - 5/16" Med. - Mtg. Fan Blades
	850-45	(GM)120214	4	Washer, Lock - 3/8" - Heavy - Mtg. Radiator
	850-51	(GM)4020-26-00	2	Washer, Shakeproof IET - 5/16" - Fan Guard & Radiator to Mtg. Brackets
	856-10	(CRB)CS-14	4	Clamp, Hose - Radiator Drain Hose
	503P131	▲	1	Clamp, Hose - Radiator Drain Hose

WHEN ORDERING PARTS, BE SURE TO INCLUDE MODEL, SERIAL, AND SPEC. NUMBER OF THE UNIT.

FIG. 19 - CONTROL ACCESSORIES GROUP

1	338B122	▲	1	Harness, Wiring - Shorter Group - Output Terminals etc.
1	338B119	▲	1	Harness, Wiring - Longer Group - Engine Controls
2	193B38	▲	1	Element, Oil Pressure Gauge - Engine Sending Unit Only - Fungus Treated
3	193A37	▲	1	Element, Water Temperature - Engine Sending Unit Only - Fungus Treated
4	332A19	SIG #SC-B-48089	2	Stud, Brass - AC Output - 3/8-16 x 3-1/4" Lg.
5	332A20	SIG #SC-B-38090	5	Bracket, Remote Terminal Mounting
6	7393	▲	1	Bracket, Output Terminal Mounting
7	332B486	▲	1	Adapter, Bakelite Terminal Block - 1/4" - per Military Spec JAN-P-14
8	332A22	▲	5	Adapter, Bakelite Terminal Block - 3/8" - per Military Spec JAN-P-14
9	332A23	SIG #SC-B-48093	2	Block, Bakelite Terminal - per Military Spec JAN-P-14
10	332B21	SIG #SC-B-48092	7	Strap, Bond - Control Panel Suppression
11	337A33	▲	2	Switch, Low Oil Pressure Cut-Off - Fungus Treated and Special Plating
12	309B21	▲	1	Switch, High Water Temperature Cut-Off - Fungus Treated and Special Plating
13	309B22	▲	1	Element, Fuel Gauge - Tank Sender Unit Only - Fungus Treated
14	193C40	▲	1	Gasket, Tank Gauge Element Mounting - Synthetic Rubber
	810-79	(GM)100959	5	Screw, Rd. Hd. Brass Machine - #8-32 x 1/2" - Mtg. Tank Element
	870-53	(GM)120614	2	Nut, Hex - #10-32 - (1) O. P. Element Terminal, (1) W. Temp. Element
	871-27	(GM)113739	9	Nut, Hex, Brass - 3/8-16 (6) AC Output Terminal
	871-16	(GM)126032	15	Nut, Hex Brass - 1/4-20 - (15) DC Output and Remote Terminals
	865-8	(GM)126032	3	Nut, Wing - 3/8-16, Pressed Steel Cold Forged - AC Output Terminals
	865-6	(GM)126177	5	Nut, Wing - 1/4-20, Pressed Steel Cold Forged - DC Output and Remote Terminals
	850-24	(GM)120217	5	Washer, Lock - #8 Light - Mtg. Fuel Tank Element
	850-30	(GM)120217	2	Washer, Lock - #10 Med. - (1) O. P. Element Terminals, (1) W. Temp. Element
	526-59	(SK)4020-26-00	17	Washer, Flat Brass - 1" x 25/64 x .181" - AC Output Terminal
	526-57	(TNP)3044-4	27	Washer, Flat Brass - 11/16 x 17/64" x 1/32 - DC Output and Remote Terminals
	856-10	(TNP)3043-6	1	Washer, Shakeproof - IET 3/8" - AC Ground Terminal
	332-51	(TNP)3043-4	2	Clip, Tinnerman - Secures Primary Control Wire Harness to Battery Rack and Yoke
	332-107	(GM)132911	1	Clip, Tinnerman - Secures Wire Harness to Starting Motor Cable
	332-48	(GM)120614	4	Screw, Rd. Hd. Steel Machine - #10-32 x 5/8" - Mtg. Tinnerman Clips
	813-102	(GM)120614	4	Nut, Hex Steel - #10-32 - Mtg. Tinnerman Clips
	870-53	(GM)120217	4	Washer, Lock - #10 Med. - Mtg. Tinnerman Clips
	850-30	▲	4	Stud, Brass - AC Ground - 3/8-16 x 3-1/4"
15	332A485	▲	1	Stud, Brass - AC Ground - 3/8-16 x 3-1/4"

REF. NO.	ONAN PART NO.	PRIME MFR. PART NO.	QUAN USED	WIRING DIAGRAM SYMBOL.	DESCRIPTION
FIG. 20 - CONTROL PANEL GROUP					
1	300-199	▲	1	636.2	Panel Assembly, Complete - With Meters etc.
2	193B76	▲	3		Resistor, Engine Gauge - For Adapting to 24 Volt System - Fungus Treated
	193A44	▲	3		Clamp, Mounting - (1) Oil Press. Gauge, (1) Water Temp. Gauge, (1) Fuel Gauge - Fungus Treated
3	193A45	▲	1		Separator, Terminal - (1) Oil Press. Gauge, (1) Water Temp. Gauge, (1) Fuel Gauge - Fungus Treated
4	302B217	▲	1		Clamp, Mounting - Charge Ammeter - Fungus Treated
5	301D941	▲	1	644.1	Panel Only, Control
6	302-12SC	●	1		Ammeter, Alternating Current - 3-1/2" Rd. Shielded, 0-150 - Fungus Treated - per Military Spec JAN-I-6-MR-34 W150 ACAA plus Shielding
7	302-41SC	●	1	647.1	Voltmeter - Alternating Current - 3-1/2" Rd., Shielded, 0-300 - Fungus Treated - per Military Spec JAN-I-6-MR-34W300 ACVV plus Shielding
8	302B212	▲	1	622.1	Meter, Running Time - 120 Volt - Fungus Treated - per Military Spec JAN-I-152
9	302B213	▲	1	634.1	Meter, Frequency - 59 to 63 cycle, 120 Volt, Fungus Treated - per Military Spec JAN-I-152 and JAN-C-173; Molded Case to meet JAN-P-14; Plating Per Army Spec 72-53
10	302A239	▲	1		Bracket, Current Transformer Mounting
11	302A236	▲	1		Clamp, Current Transformer Mounting - Outside of Coil Hole - per Spec BM 210 and MIL-P-14A
12	302C214	▲SIG #SC-C-48063	1	642.1	Transformer, Current - 150/0 Ratio
13	302A235	▲	1		Clamp, Current Transformer Mtg. - Inside of Coil Hole - Per Spec BM120 and MIL-P-14A
14	312A22	SIG Type #CA-481	4	641.1	Condenser - .1 MFD, 500V AC, (2) Output Terminals, (2) Panel Receptacle For Suppression
15	312A20	SIG Type #CA-441	3	638.2	Condenser -.1 MFD, 100V DC-(1) DC Output Terminal, (2) Panel Remote Terminal - For Suppression
16	323P77	●	1	646.1	Receptacle - Duplex Twistite - Trouble Lamp Connector - per Military Spec JAN-P-14, JAN-T-152, JAN-C-173, Army 72-53
17	332A344	▲SIG #SC-B-48073	1		Insulator - 8 Place Terminal Block to Panel

WHEN ORDERING PARTS, BE SURE TO INCLUDE MODEL, SERIAL, AND SPEC. NUMBER OF THE UNIT.

332B336	▲SIG #SC-C-48072	1	625.1	Block, Only, Terminal - 8 Place, Laminated - per Military Spec JAN-P-13 - Fungus Treated
332A341	▲SIG #SC-B-48074	8		Strip, Terminal - Plated Copper, 1/2 x 1-1/2 x 3/32, per Spec QQ-C-501 - For 8 Place Block - Connects terminal 16 to 17.
332A342	▲SIG #SC-B-48075	1		Link, Terminal - Plated Copper, 1/2 x 1-7/16 x 1/16 - per Spec QQ-C-501 - For 8 Place Block
320-112	▲	1	645.2	Breaker, Circuit-2 Pole-Adjusted to 60Amp at 125°F. 250 Volt AC
332B339	▲	1	648.1	Block, Terminal - 12 Plate Per Military Spec MIL-P-14 and 72-53
304-277	(Ohmite) 0452	1	1100.	Resistor, 100 Ohm, 10 Watt, Type Designation RW-31G-101 - per Military Spec JAN-R-26A
308-55	(CH) 8812K7	1	617.1	Switch, Start-Stop - Momentary Toggle - Per Military Spec JAN-S-23
301A803	▲	1		Guard, Switch
321-6	(BSM)AGS-20	1	659.2	Fuse, - 20 Amp., Style AGS-20
321P77	(BSM)HCM-R	1	659.1	Holder, Fuse - Per Military Spec JAN-P-14 & Army 52-53
193B46	▲	1	643.1	Gauge, Water Temperature - 100°-220° - Excludes Attaching Parts - Fungus Treated - Panel Unit Only
193B43	▲	1	637.1	Gauge, Oil Pressure - 0-60 - Excludes Attaching Parts - Fungus Resistant - Panel Unit Only
302B216	▲	1	610.1	Ammeter, Charge - 20-0-20 - Fungus Treated
193B48	▲	1	635.1	Gauge, Fuel - Excludes Attaching Parts - Fungus Treated - Panel Unit Only
332-51	TNP 3044-4	1		Clip, Tinnerman - Used Next to Rd. Hole at Bottom of Control Box
167A33	▲ORD#7418572	1		Clip, Wire Securing - Secures Fuel Gauge Wire Inside of Control Box
810-155	(GM)113980	16		Screw, Rd. Hd. Brass Machine - 1/4-20 x 1-1/4" - 8 Place Terminal Block
811-100	(GM)101128	5		Screw, Rd. Hd. Brass Machine - #10-32 x 1-1/2" - Mtg. Condensers
813-111	(GM)132942	3		Screw, Rd. Hd. Machine - #10-32 x 2-1/4" - (2) Mtg. Transformer Clamp, (1) Mtg. Resistor
813-107	(GM)132926	2		Screw, Rd. Hd. Machine - #10-32 x 1-1/4" - Mtg. 12 Place Terminal Blk.
813-102	(GM)132911	2		Screw, Rd. Hd. Machine - #10-32 x 5/8" - Mtg. 8 Place Terminal Block
812-77	(GM)121832	4		Screw, Rd. Hd. Machine - #8-32 x 3/8" Mtg. Circuit Breaker
871-16	(GM)120614	33		Nut, Hex Brass - 1/4-20 - 8 Place Terminal Block
870-53	(GM)112432	7		Nut, Hex. - #10-32 - (2) Mtg. Transformer Clamp, (4) Mtg. Terminal Blocks, (1) Mtg. Resistor
871-10	(GM)112432	15		Nut, Hex. Brass - #10-32 (2) Oil Pressure Gauge, (2) Water Temp. Gauge, (2) Fuel Gauge, (4) Chg. Rate Ammeter, (5) Mtg. Condensers
871-8	(GM)113103	6		Nut. Hex Brass - #8-32 (2) Oil Pressure Gauge (2) Water Temp. Gauge

PARTS LIST

ONAN PART NO.	PRIME MFR. PART NO.	QUAN USED	DESCRIPTION
850-30	(GM)120217	7	FIG. 20 - CONTROL PANEL GROUP (CONT.) Washer, Lock - #10 Medium - (2) Mtg. Transformer Clamp, (1) Mtg. Resistor, (4) Mtg. Circuit Breaker
508-32	▲	1	Washer, Mica Insulating - Mtg. Resistor
526-8		1	Washer, Flat Steel - 7/16" O.D. - Mtg. Resistor
526-52		33	Washer, Flat Brass - 9/16" O.D. x 17/84 x 1/32" - 8 Place Terminal Block
526-53		2	Washer, Flat Brass - 7/16 x .200 x 1/32" - Mtg. Transformer Clamp
526-48		6	Washer, Flat Brass - 3/8 x .172 x 1/32" - (2) Oil Pressure Gauge, (2) Water Temp. Gauge, (2) Fuel Gauge
526-49		8	Washer, Flat Brass - 7/16 x .200 x 1/32" - (2) Oil Pressure Gauge, (2) Water Temp. Gauge, (2) Fuel Gauge, (2) Charge Ammeter.
856-2	(SK)4008-14-00	7	Washer, Shakeproof - IET - #8 - (7) Condenser Leads
853-8	(SK)1110-00	4	Washer, Shakeproof - ET - #10 - Mtg. Terminal Blocks
854-14	(SK)1214-00	16	Washer, Shakeproof - IT - 1/4" - 8 Place Terminal Block
856-3	(SK)4010-14-00	21	Washer, Shakeproof - IET - #10 - (14) Mtg. Condensers, (4) Control Bond Strap, (3) Mtg. Control Panel
405C813	▲	1	FIG. 21 - HOUSING PANEL & HOUSING FRAME GROUP (Explanation of "left" and "right" appears on introductory page.) Plate, Rear Top Housing
405C794	▲	1	Plate Assy., Front Top Housing - With Coating
405C802	▲	1	Panel Assy., Right Front Housing (Opposite Carburetor Side) - With Coating
405C806	▲	1	Panel Assy., Left Front Housing (Carburetor Side) - With Coating
405D479	▲SIG#SC-D-47898	1	Panel, Left Rear Housing - (Carburetor Side)
406A7	(BA)C-2185	4	Hook, Hood
405D478	▲SIG#SC-D-47895	1	Panel, Right Rear Housing - (Opposite Carburetor Side)
405C804	▲	1	Panel, Rear End
406-2	(NL)83-F1644N	1	Knob, Door - Panel
301C787	▲	1	Door Assy., Control Panel - Excludes Knob
301D651	▲SIG#SC-D-48083	1	Frame, Instrument Panel
417C106	▲	1	Box, Spare Parts and Tool

WHEN ORDERING PARTS, BE SURE TO INCLUDE MODEL, SERIAL, AND SPEC. NUMBER OF THE UNIT.

PARTS LIST

13	7339	▲	1	Bolt, U Lifting
14	405D545	▲	1	Support, Housing Center
15	7369B	▲	2	Track, Sliding Top Plate
16	405D796	▲	1	Panel, Front Welded
17	403D293	▲	1	Base, Skid
18	405C798	▲	1	Pan, Bottom Dust
19	405C801	▲	1	Support, Fuel Tank and Battery
20	416B306	▲	1	Frame, Battery Hold Down - Per Spec TT-P-636 and JAN-C-450
21	130A289	▲	2	Bracket, Panel to Radiator
22	405B795	▲	1	Mount, Front Engine
23	405B800	▲	1	Plate, Exhaust - Compartment Top
24	7331	▲SIG#6L3948-31	24	Pin, Shoulder - Securing Housing Panels
25	416A307	▲	1	Tray, Battery - Per Spec TT-P-636 and JAN-C-450
26	403C294	▲	1	Yoke, Lifting
27	7372	▲SIG#3H5255.20-22	24	Spring, Shoulder Pin
28	402-78	(GR)Describe	6	Mount Shock - 1" OD x 1" Lg. with steel end washer tapped 5/16-18 - Type 40, for Control Box to End Panel - For -65°F. Service
	331A29	§	1	Clamp, Pipe - Securing Hand Crank
	516-69		24	Pin, Cotter - 3/32 x 3/4" - Shoulder Pin
	526-115		24	Washer, Flat Steel - 11/16 OD x 11/32 x 1/16" - Shoulder Pin
	867-6	(GM)451412	1	Nut, Hex Machine - Full - 5/8-18 (1) Front Mount to Engine
	862-7	(GM)213514	4	Nut, Hex Machine Full - 5/8-11 - U Bolt
	862-5		8	Nut, Hex Machine Full - 1/2-13 - (4) Generator Support Bracket to Skid, (2) Yoke to Generator-to-Engine Adapter
	865-6	(GM)126177	3	Nut, Wing 1/4-20 - (2) Battery Top Frame, (1) Crank Clamp
	870-53	(GM)120614	12	Nut, Hex Machine - #10-32 - (8) Side Panels, (4) Mtg. Tool Box
	860-13	(GM)120375	23	Nut, Hex Machine - 1/4-20 - (2) Track to Center Support, (8) Bottom Dust Plate to Skid, (2) Oil Drain Clamp to Skid and Crank Clamp Mtg. Screw, (6) Dust Pan
	860-15	(GM)134556	8	Nut, Hex Machine - 5/16-18 - (8) Parts Tray Studs and Rear Panel to Tray
	860-17	(GM)134566	18	Nut, Hex - Machine - 3/8-16 - (2) Rear Panel to Battery Support, (4) Center Support to Skid, (4) Rear Panel to Skid, (4) Battery Support to Center Support, (2) Front Panel to Skid, (2) Mtg. Fuel Filter to Support Bracket
	810-79	(GM)100959	1	Screw, Rd. Hd. Machine - #8-32 x 1/2" - Mtg. Door Knob
	813-100	(GM)132908	12	Screw, Rd. Hd. Machine - #10-32 x 1/2" - (8) Slide Panels, (4) Mtg. Tool Box

PARTS LIST

REF. NO.	ONAN PART NO.	PRIME MFR. PART NO.	QUAN USED	DESCRIPTION
				FIG. 21 - HOUSING PANEL AND HOUSING FRAME GROUP (CONT.)
	812-153	(GM)133049	1	Screw, Rd. Hd. Machine - 1/4-20 x 1" - Mtg. Crank Clamp
	856-16	(SK)4028-34-00	1	Washer, Shakeproof IET 5/8 - (1) Front Mount to Engine
	856-2	(SK)4008-14-00	1	Washer, Shakeproof IET #8 - (1) Mtg. Panel Door Knob
	856-3	(SK)4010-14-00	4	Washer, Shakeproof IET #10 - Bond Strap to Battery Support
	856-6	(SK)4014-20-00	1	Washer, Shakeproof IET 1/4" - Magneto Mtg. Plate
	856-10	(SK)4020-28-00	40	Washer, Shakeproof IET 3/8" - (4) Rear Panel to Battery Support, (8) Rear End Panel and Filter Bracket to Skid, (8) Center Support to Skid, (4) Front End Panel to Skid, (16) Engine to Adapter
	856-13	(SL)4024-32-00	16	Washer, Shakeproof IET 1/2" - (8) Generator Support Bracket to Skid, (4) Generator Support Bracket to Frame, (8) Center Support to Skid
	403A95	▲SIG #6L5048-16	1	Eyebolt - Generator Lifting
	800-3	(GM)120706	19	Screw, Hex Hd Cap - 1/4-20 x 1/2" - (14) Bottom Dust, (5) Control Panel Hinge to Control Box
	800-4	(GM)120854	2	Screw, Hex Hd. Cap - 1/4-20 x 5/8" (2) Slide Rails to Center Support
	800-19	(SIG#100-14S4-16	2	Screw, Hex Hd Cap - 1/4-20 x 4" (2) Battery Top Frame
	800-48	(GM)122119	2	Screw, Hex Hd Cap - 3/8-16 x 3/4" - (2) Slide Rails to Front End Panel
	800-49	(GM)122126	11	Screw, Hex Hd Cap - 3/8-16 x 7/8" (4) Center Support to Skid, (3) Rear Panel to Skid, (2) Front End Panel to Skid, (2) Rear End Panel to Skid
	800-50	(GM)120233	1	Screw, Hex Hd Cap - 3/8-16 x 1" - Rear Panel and Fuel Filter Bracket to Skid
	800-51	(GM)122145	2	Screw, Hex Hd Cap - 3/8-16 x 1-1/4" - Mtg. Fuel Filter and Support Bracket
	800-24	(GM)120834	14	Screw, Hex Hd Cap - 5/16-18 x 1/2" - (2) Tool Tray to Rear Panel, (2) Rubber Shock to Tank Support, (10) Control Panel Mtg. Shocks
	800-90	(GM)122408	2	Screw, Hex Hd Cap - 1/2-13 x 1" (2) Generator Support Bracket to Side of Skid
	800-91	(GM)120426	2	Screw, Hex Hd Cap - 1/2-13 x 1-1/4" - (4) Gen. Support Bracket to Skid
	800-92	(GM)122433	4	Screw, Hex Hd Cap - 1/2-13 x 1-1/2" - (2) Lifting Yoke to Generator Adapter
	801-97	(GM)120217	1	Screw, Hex Hd Cap - 5/8-18 x 1-1/4" - (1) Front Mount To Engine
	850-30	(GM)120217	4	Washer, Lock - #10 Medium - (8) Side Panels, (4) Mtg. Tool Box
	850-40	(GM)120380	22	Washer, Lock - 1/4" Medium - (2) Side Rails to Center Support, (8) Bottom Dust Pan to Skid, (3) Dust Pan to Exhaust Baffle Plate, (3) Exhaust Baffle Plate to Front Panel, (1) Crank Clamp to Front End Panel, (5) Control Panel Hinge to Control Box

WHEN ORDERING PARTS, BE SURE TO INCLUDE MODEL, SERIAL, AND SPEC. NUMBER OF THE UNIT.

850-45	(GM)120214	14	Washer, Lock - 5/16" Medium - (2) Shock Mount to Battery Support, (12) Shock Mounts to Rear End Panel and Control Box
850-50	(GM)120382	4	Washer, Lock - 3/8" - Medium - (2) Slide Rails to Front End Panel, (2) Fuel Filter to Support Bracket
850-60	(GM)120384	2	Washer, Lock - 1/2" Medium - (2) Generator Bracket to Skid
850-70	(GM)121574	4	Washer, Lock - 5/8" Medium - U Bolt
208-19	▲	1	Generator Assembly, Complete - 125/250 Volt, 1 Phase, 60 Cycles at 1800 rpm, 10,000 watts, 0.8 Power Factor
231D57	▲	1	Adapter, Generator to Engine
205B33	▲	1	Blower, Generator Air
232B165	▲	1	Scroll, Air
201A544	▲	1	Rotor - Includes Bearing and Drive Disc
510-41	(NHS)-3606	1	Bearing, Ball - Double Sealed, Pre-lubricated with Army Spec 2-134 Grease
220A240	▲	1	Stator - Includes Windings and Laminations
210D207	▲	1	Frame, Stator - Welded Steel Construction
232B671	▲	1	Conduit, Outlet Lead - Includes Connectors, Conduit and Plate
304B285	▲	1	Resistor and Bracket - Includes Leads and Hardware Assembled
304-132	▲	1	Resistor, Adjustable - 1 Ohm, 25 Watt, 9/16 x 2"
232A526	▲	3	Screen, Air Intake
222A1351	▲	1	Coll Set, Exciter Field - Set of 4 Colls
221A100	▲	1	Shoe, Pole
232C427	▲	4	Bracket, Generator Frame Mounting
232C426	▲	1	Bracket, Generator Frame Mounting
210A1388	▲	1	Frame Assy., Exciter - Includes Shoes and Field Colls
212C165	▲	1	Rig Assy., Brush - Includes
312A20	SIG Type CA-441	2	Condenser - 0.1 MFD, 100 V. DC
211D42	▲	1	Bell, End
232B122	▲	1	Band, End Bell
232B461	▲	1	Clin. Bearing Anti-Deflection

PARTS LIST

FIG. 22 - OUTPUT GENERATOR AND OVERSPEED SWITCH GROUP
(PER GEN. DATA 10HQ/100)

PARTS LIST

ONAN PART NO.	PRIME MFR. PART NO.	QUAN USED	DESCRIPTION
150A548	▲	1	Switch, Overspeed - Includes Spring, Weight and Plate Assembled
150A562	▲	1	Gasket, Overspeed Switch
150A542	▲	2	Bushing, Insulating - Overspeed Switch Cover
150A550	▲	1	Cover, Overspeed Switch - Includes Contact Point
214A47	▲	2	Brush, Commutator
214A46	▲	4	Brush, Slip Ring
212A1105	▲	4	Spring, Brush - Slip Ring
212B1106	▲	2	Spring, Brush - Commutator
803-57		2	Screw, Socket Hd. Set - 5/16-18 x 1" - Securing Stator in Frame
815-33		8	Screw, Phillips Hd. Machine - 5/16-18 x 1-1/4" - Mtg. Pole Shoe
800-7		1	Screw, Hex Hd. Steel Cap - 1/4-20 x 1" - Rotor Balancing Lug
800-24	(GM)121900	2	Screw, Hex Hd. Steel Cap - 3/8-16 x 1/2" - Mtg. Outlet Plate to Gen. Frame
800-25	(GM)120834	6	Screw, Hex Hd. Steel Cap - 5/16-18 x 5/8" - Mtg. Blower to Flywheel
800-26	(GM)122007	8	Screw, Hex Hd. Steel Cap - 5/16-18 x 3/4" - (4) Drive Disc to Flywheel, (4) Mtg. Brush Rtg
800-63	▲	6	Screw, Hex Hd. Steel Cap - 3/8-16 x 4-1/4" - Stator Frame to Adapter.
800-61	(FM)127949	4	Screw, Hex Hd. Steel Cap - 3/8-16 x 3-3/4" - Mtg. End Bell
800-91	(GM)120426	4	Screw, Hex Hd. Steel Cap - 1/2-13 x 1-1/4" - Gen. Mtg. Brkts to Generator Frame
801-73	(GM)123567	4	Screw, Hex Hd. Steel Cap - 7/16-20 x 1-1/2" - Drive Disc to Rotor Hub
813-98	(GM)132900	5	Screw, Rd. Hd. Steel Machine - #10-32 x 3/8" - (5) Mtg. Scroll
812-155	(GM)133053	2	Screw, Rd. Hd. Steel Machine - 1/4-20 x 1-1/4" - Mtg. End Bell Band
812-181	(GM)133106	2	Screw, Rd. Hd. Steel Machine - 5/16-18 x 1-1/4" - Mtg. Overspeed Switch Cover
810-75	(GM)100957	2	Screw, Rd. Hd. Brass Machine - #8-32 x 1/4" - Condenser Leads
811-100	(GM)10128	2	Screw, Rd. Hd. Brass Machine - #10-32 x 1/2" - Mtg. Condensers
850-30	(GM)120217	5	Washer, Lock - #10 Med. (5) Mtg. Scroll
850-40	(GM)120380	3	Washer, Lock - 1/4" Med. - (1) Rotor Balancing Lug, (2) End Bell Band
850-45	(GM)120214	18	Washer, Lock - 5/16" Med. - (6) Mtg. Blower to Flywheel, (4) Drive Disc to Flywheel, (2) Mtg. Outlet Plate to Gen. Frame, (2) Mtg. Overspeed Switch Cover, (4) Mtg. Brush Rtg

WHEN ORDERING PARTS, BE SURE TO INCLUDE MODEL, SERIAL, AND SPEC. NUMBER OF THE UNIT.

PARTS LIST

850-55	(GM)120382	4	Washer, Lock - 7/16" Med. - Drive Disc to Rotor Hub
853-13	(SK)1114-00	1	Washer, Shakeproof - 1/4" ET - Rotor Balancing Lug
854-7	(SK)1208-00	2	Washer, Shakeproof - #3 IT - Condenser Leads
854-23	(SK)1222-00	6	Washer, Shakeproof - 7/16" IT - Mtg. Adapter to Engine
856-3	(SK)4010-14-00	2	Washer, Shakeproof - #10 IET - Mtg. Condensers
856-10	(SK)4020-26-00	10	Washer, Shakeproof - 3/8" IET - (5) Mtg. Adapter to Gen. Frame, (4) Mtg. End Bell
856-13C	(SK)5024-36-00	4	Washer, Shakeproof - 1/2" IET - (4) Gen. Mtg. Brkts to Generator Frame
526-75		2	Washer, Flat Steel - 1/2" O.D. x 9/32 x 1/16-End Bell Band
526-20C		2	Washer, Flat Steel - 3/4" O.D. x 17/64" x 1/8" - Rotor Balancing - Use as Required
526-21C		2	Washer, Flat Steel - 3/4" O.D. x 17/64 x 1/16" - Rotor Balancing - Use As Required
526-24		2	Washer, Flat Steel - 3/4 x 21/64 x 1/16" - Mtg. Brush Rtg
526-54		4	Washer, Flat Brass - 3/4" x 21/64 x 1/16" - Mtg. Brush Rtg
860-13	(GM)120375	1	Nut, Hex Steel Machine - 1/4-20 - Rotor Balancing Lug
862-1	(GM)193227	2	Nut, Hex Steel Machine - Full - 1/4-20 - Mtg. End Bell Band
871-10	(GM)112432	2	Nut, Hex Brass - #10-32 - Mtg. Condensers

GROUP 23 - TOOL GROUP

417K125	▲	1	Kit, Tool
77511	(VL)SS306	1	Screwdriver - 5/16 x 6
77660	(SHK)40114	1	Wrench, Socket - 7/16"
77661	(SHK)40116	1	Wrench, Socket - 1/2"
77662	(SHK)40118	1	Wrench, Socket - 9/16"
77677	(SHK)40152	1	Handle, Socket Wrench
420-140	(BHM)138	1	Screwdriver, Offset - 4-1/2 x 1/4
417-54	(PH) Describe	1	Wrench, Socket Head-1/8" for 1/4" Allenhead Set Screw
417-57	(PH) Describe	1	Wrench, Socket Head-5/32" for 5/16" Socket Set Screw
77974	▲	1	Bag, Canvas Tool - 7 oz. Canvas
77623	(VL)723	1	Wrench, Open End 3/8 x 7/16
77624	(VA)725	1	Wrench, Open End 7/16 x 1/2
77641	(VL)725B	1	Wrench, Open End 9/16 x 1/2
77625	(VL)727	1	Wrench, Open End 9/16 x 5/8

REF. NO.	ONAN PART NO.	PRIME MFR. PART NO.	QUAN USED	DESCRIPTION
				GROUP 23 - TOOL GROUP (CONT.)
16	417-104	(SHK)40161	1	Extension, Socket Wrench Handle - 1/2" x 5" Long
17	417-105	(VL)X133	1	Wrench, Spark Plug
18	77570	(VL)X40	1	Wrench, Adjustable 9"
19	417-110	(KA)21B	1	Gauge, Feeler
20	420-139	(VL)XU92	1	Wrench, Open End - Tappet 1/2" x 9/16"
21	420-159	(VL)XU-93 Special	2	Wrench, Open End - Tappet 5/8 x 11/16"
22	77709	(PH)Describe	1	Wrench, Socket Head - 7/16 Socket Cap Screw x 3/8 Socket Set Screw
23	417-52	(PH)Describe	1	Wrench, Socket Head-1/4 Socket Hd Cap x 3/8" Socket Set Screw
24	77515	(VL)SS306	1	Screwdriver - 3"
				GROUP 24 - SERVICE KITS GROUP
	149K508		1	Kit, Fuel Pump Repair
	143K60	(CO)F400T-202	1	Kit, Carburetor Gasket
			1	Kit, Water Pump Repair Parts

WHEN ORDERING PARTS, BE SURE TO INCLUDE MODEL, SERIAL, AND SPEC. NUMBER OF THE UNIT.

OVERSIZE AND UNDERSIZE PARTS

If an oversize or undersize part is required, the size after the part number and separated dash. Example: F162A-230-.003(Oversize)

Sizes other than standard are offered as follows:

OVERSIZE PISTONS

Cast Iron

.010
.020
.030
.040
.050
.060

S.F. (Semi-Finished)

Aluminum

.010
.020
.030
.040

S.F.

OVERSIZE PISTON RINGS

.020
.030
.040
.060

OVERSIZE PISTON PINS

.003
.005
.010

UNDERSIZE BEARINGS (MAIN)

.002
.010
.020
.030
.040
.060 (may be
to .040)

OVERSIZE GEARS

Identification Mark on Gear

.001
.002
.003
.004
.005
.006

①
②
③
④
⑤
⑥

UNDERSIZE GEARS

Identification Mark on Gear

.001
.002
.003
.004
.005
.006

①
②
③
④
⑤
⑥