

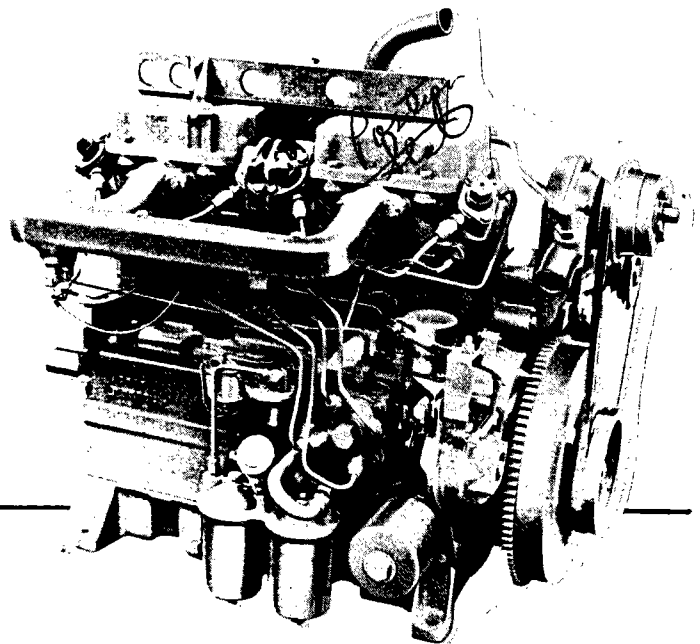
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McGRAW-EDISON

Onan

Parts Manual

**RDJF
Diesel Engines**



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 diagram shows a rectangular nameplate with a tab on the right side. At the top, it says "McGRAW-EDISON" between two circles. Below that is the "Onan" logo. Under the logo is a large rectangular box labeled "MODEL AND SPEC NO.". Below that is a smaller rectangular box labeled "SERIAL NO.". The tab on the right side is labeled "M-1149".

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 Manual 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."

PARTS CATALOG

INTRODUCTION

This catalog applies to the standard RDJF Industrial Engine. Parts are arranged in groups of related items. Each illustrated part is identified by a reference number corresponding to the same reference number in the parts list for that group. Parts illustrations are typical. Using the *Model* and *Spec No.* from the nameplate, select parts from this catalog that apply to your engine. Unless otherwise mentioned in the description, parts are interchangeable between models. Right and left sides are determined by facing the blower end (front) of the engine.

ENGINE DATA TABLE

MODEL AND SPEC NO.	DESCRIPTION
RDJF-MS/*£	Electric Start, Stub Shaft Drive

* - The Specification Number 1 identifies a standard model, specification numbers other than 1 indicates customer ordered options.

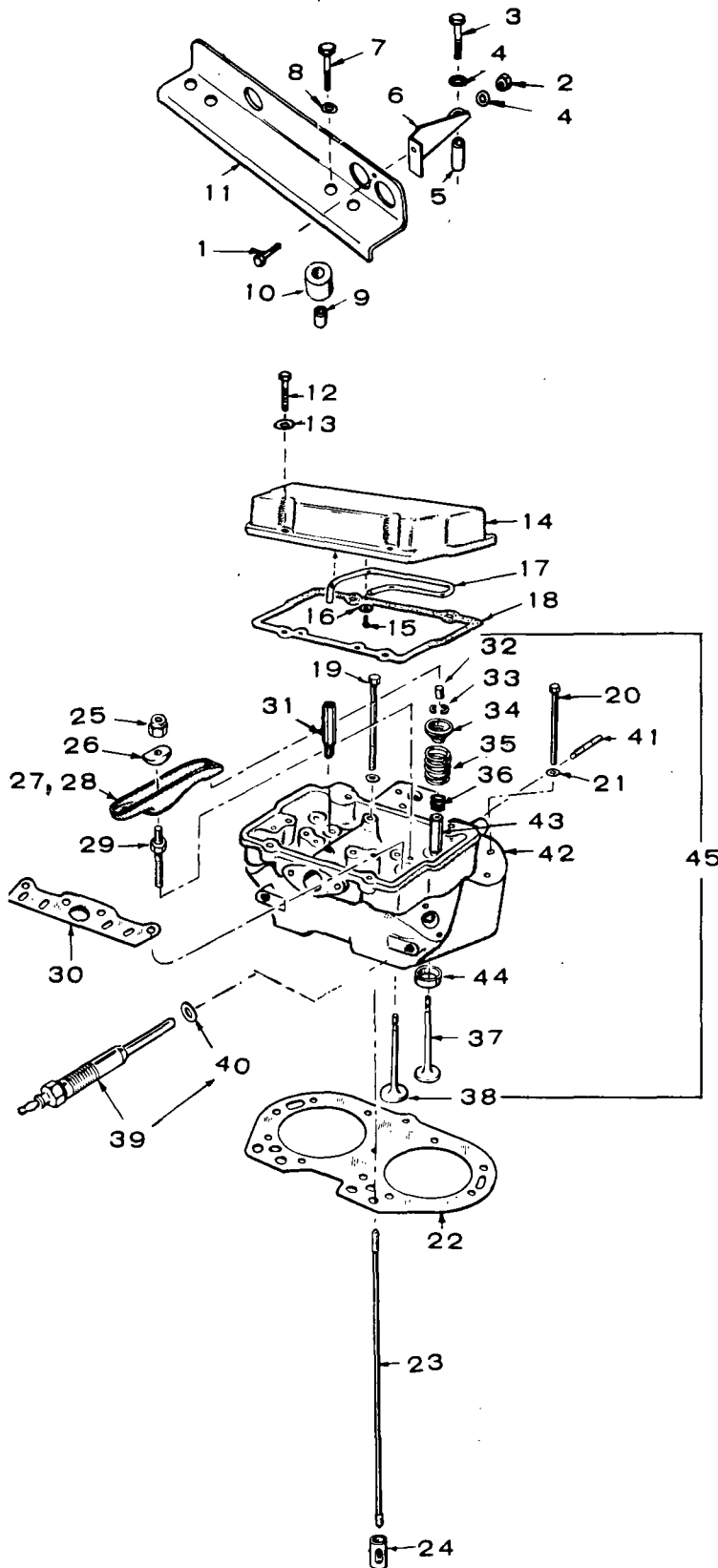
£ - The Specification Letter advances (A to B, B to C, etc.) with each major manufacturing change.

NOTE: When ordering parts furnish complete Model, Specification and Serial Number from the Onan nameplate.

4.

STANDARD ENGINE PARTS SECTION

CYLINDER HEAD, VALVE AND ROCKER

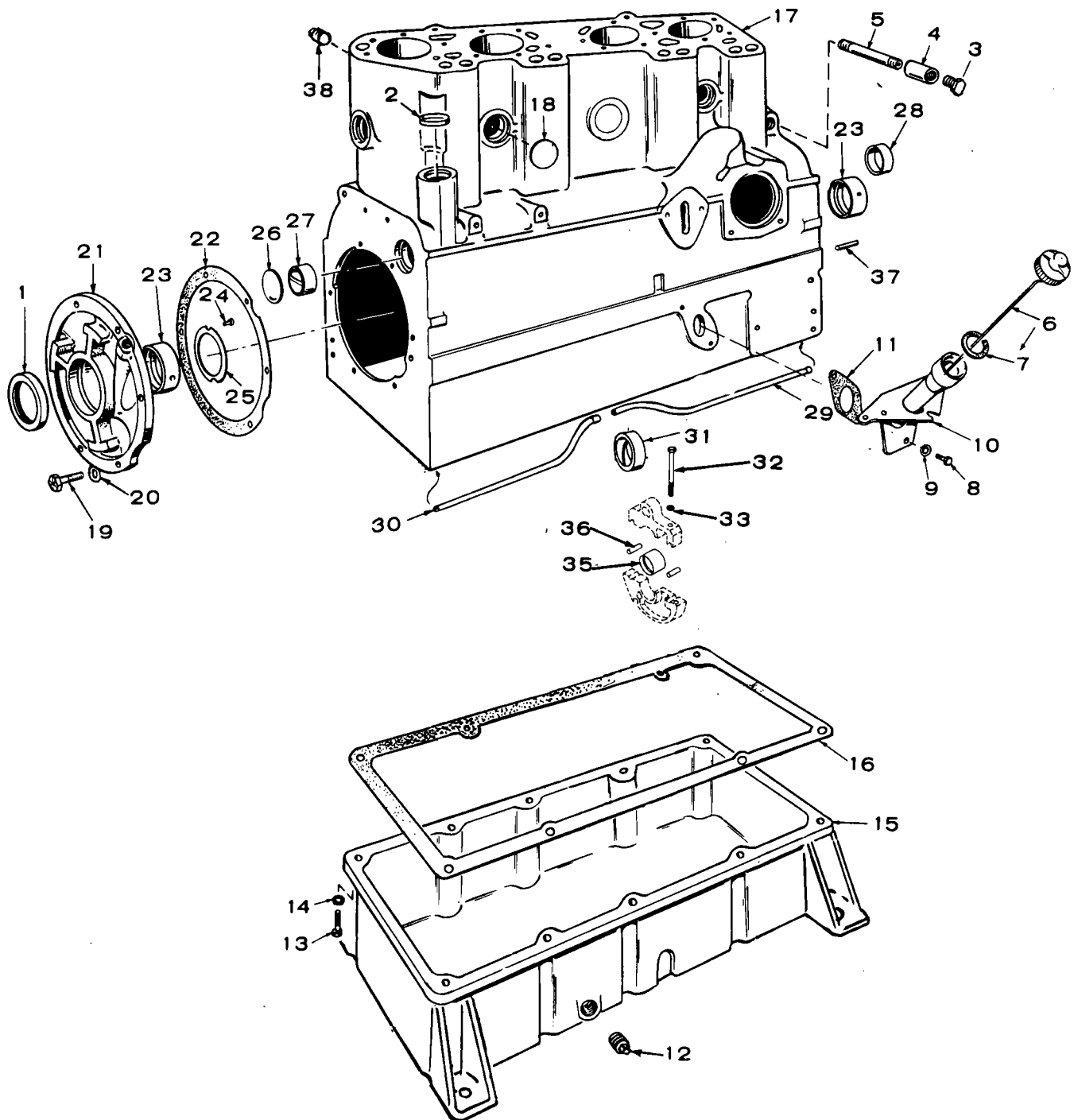


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	800-0026	1	Screw, Cap - Hex Head (5/16-18 x 3/4")
2	862-0015	1	Nut, Hex (5/16-18)
3	800-0038	1	Screw, Cap - Hex Head (5/16-18 x 3-1/4")
4	850-0045	2	Washer, Lock - Spring (5/16")
5	403-0826	1	Spacer, Lifting Bracket
6	403-0890	1	Brace, Lifting Bracket
7	800-0094	2	Screw, Cap - Hex Head (1/2-13 x 2")
8	526-0100	2	Washer, Flat - Unplated (9/16" ID x 1-3/8" OD 7/64" Thk)
9	402-0362	2	Bushing, Spacer
10	402-0361	2	Cushion, Vibration
11	403-0690	1	Bracket, Lifting
12	800-0030	7	Screw, Cap - Hex Head (5/16-18 x 1-1/4")
13	850-0045	7	Washer, Lock - Spring (5/16")
14	115-0134	2	Cover, Rocker (Includes Parts Marked *)
15	809-0042	2	*Screw, Tapping - Round Head (#10 x 5/16")
16	526-0130	2	*Washer, Flat (17/64" ID x 1" OD x 1/16" Thk)
17	120-0628	2	*Line, Oil Rocker Cover
18	115-0130	2	Gasket, Rocker Cover
19	110-1264	10	Screw, Cap - Hex Head (Special)
20	800-0501	12	Screw, Cap - Hex Head (Special)
21	526-0174	14	Washer, Flat (13/32 ID x 25/32 OD x 0.1345" Thk)
22	110-2464	2	Gasket, Head
23	115-0149	8	Rod, Push
24	115-0195	8	Tappet, Valve
25	115-0150	8	Locknut, Rocker Arm
26	115-0127	8	Ball, Rocker Arm
27	115-0128	4	Arm, Rocker - Exhaust
28	115-0129	4	Arm, Rocker - Intake
29	115-0152	8	Stud, Rocker Arm
30	115-0196	2	†Guide, Push Rod
31	123-1140	2	Standpipe
32	110-0859	8	Cap, Valve Stem
33	110-0858	16	Lock, Valve Spring Retainer
34	110-1220	8	Retainer, Valve Spring
35	110-1221	8	Spring, Valve
36	509-0132	4	Seal, Oil - Intake Valve (Includes Retaining Rings)
37	110-1278	4	Valve, Exhaust
38	110-1320	4	Valve, Intake
39	333-0106	4	Plug, Glow - Includes Gasket
40	110-0546	4	Gasket, Glow Plug
41	520-0608	8	Stud, Exhaust Manifold
42	110-2984	2	Head, Cylinder (Includes Parts Marked †)
43	110-1501	8	†Guide, Valve
44	†INSERT, VALVE SEAT		
	110-1268	8	Standard
	110-1268-02	8	.002" Oversize
	110-1268-05	8	.005" Oversize
	110-1268-10	8	.010" Oversize
	110-1268-25	8	.025" Oversize
45	110-2986	2	Head Assembly, Cylinder (Includes Valves, Springs, Retainers and Oil Seals)

* - Included in Rocker Cover.

† - Included with Cylinder Head.

CRANKCASE AND OIL BASE



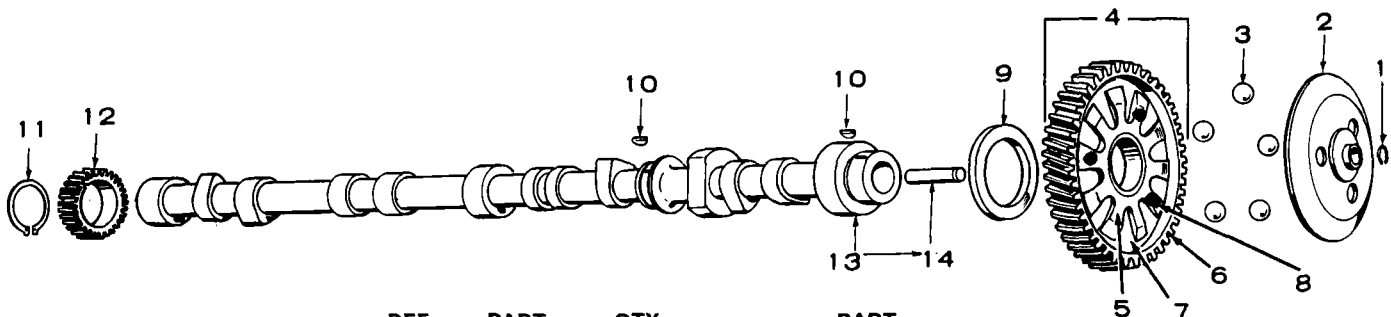
CRANKCASE AND OIL BASE

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	509-0086	1	Seal, Crankshaft Rear	21	101-0337	1	*Plate, Rear Bearing (Less Bearing & Pins)
2	517-0103	1	Plug - Crankcase Breather Hole	22	101-0386	1	*Gasket Kit, Rear Bearing Plate (Includes Shims)
3	502-0153	1	Plug, Pipe - 1/4" NPT, Coolant Drain	23	*BEARING, PRECISION MAIN - FRONT & REAR		
4	505-0027	1	Coupling, Pipe - 1/4" NPT, Coolant Drain	101-0359	2	Standard	
5	505-0449	1	Nipple, Pipe - 1/4" NPT x 6"	101-0359-02	2	.002" Undersize	
6	123-1056	1	Cap and Indicator - Oil Fill	101-0359-10	2	.010" Undersize	
7	123-0191	1	Gasket - Oil Fill Cap	101-0359-20	2	.020" Undersize	
8	800-0026	2	Screw, Cap - Hex Head (5/16-18 x 3/4")	101-0359-30	2	.030" Undersize	
9	850-0045	2	Washer, Lock - Spring (5/16")	24	516-0072	2	*Screw, Drive
10	123-1086	1	Tube, Oil Fill	25	104-0420	2	*Washer, Crankshaft Thrust
11	123-0667	1	Gasket, Oil Fill Tube	26	517-0053	1	*Plug, Expansion - Rear Camshaft Opening
12	505-0056	1	Plug, Pipe - Square Head (1/2" NPT)	27	101-0365	1	*Bearing, Precision - Cam (Rear)
13	800-0073	10	Screw, Cap - Hex Head (7/16-14 x 1-1/2")	28	101-0363	1	*Bearing, Precision - Cam (Front)
14	850-0055	10	Washer, Lock - Spring (7/16")	29	120-0586	1	Tube, Oil - Crankcase, Front
15	102-0477	1	£ Base, Oil	30	120-0585	1	Tube, Oil - Crankcase, Rear
16	102-0475	1	Gasket - Oil Base	31	101-0364	1	*Bearing, Precision - Cam (Center)
17	110-2449	1	£Block Assembly (Includes Parts Marked *)	32	101-0342	2	*Bolt, Center Bearing Housing
18	*PLUG, EXPANSION - CYLINDER BLOCK (ORDER BY SIZE)			33	526-0035	2	Washer, Flat (17/32" ID x 7/8" OD x 1/8" Thk)
	517-0059	As Req.	1-7/16"	35	*BEARING HALF, PRECISION MAIN - CENTER		
	517-0096	As Req.	1-9/16"	101-0361	2	Standard	
	517-0097	As Req.	1-3/4"	101-0361-02	2	.002" Undersize	
19	805-0019	6	*Bolt, Rear Bearing Plate (3/8-16 x 1-1/4")	101-0361-10	2	.010" Undersize	
20	526-0245	6	*Washer, Flat (25/64" ID x 5/8" OD x 0.598" Thk)	101-0361-20	2	.020" Undersize	
				101-0361-30	2	.030" Undersize	
				36	516-0149	2	*Pin, Center Bearing Housing
				37	516-0141	2	*Pin, Gear Cover Locating

* - Included in Cylinder Block Assembly.

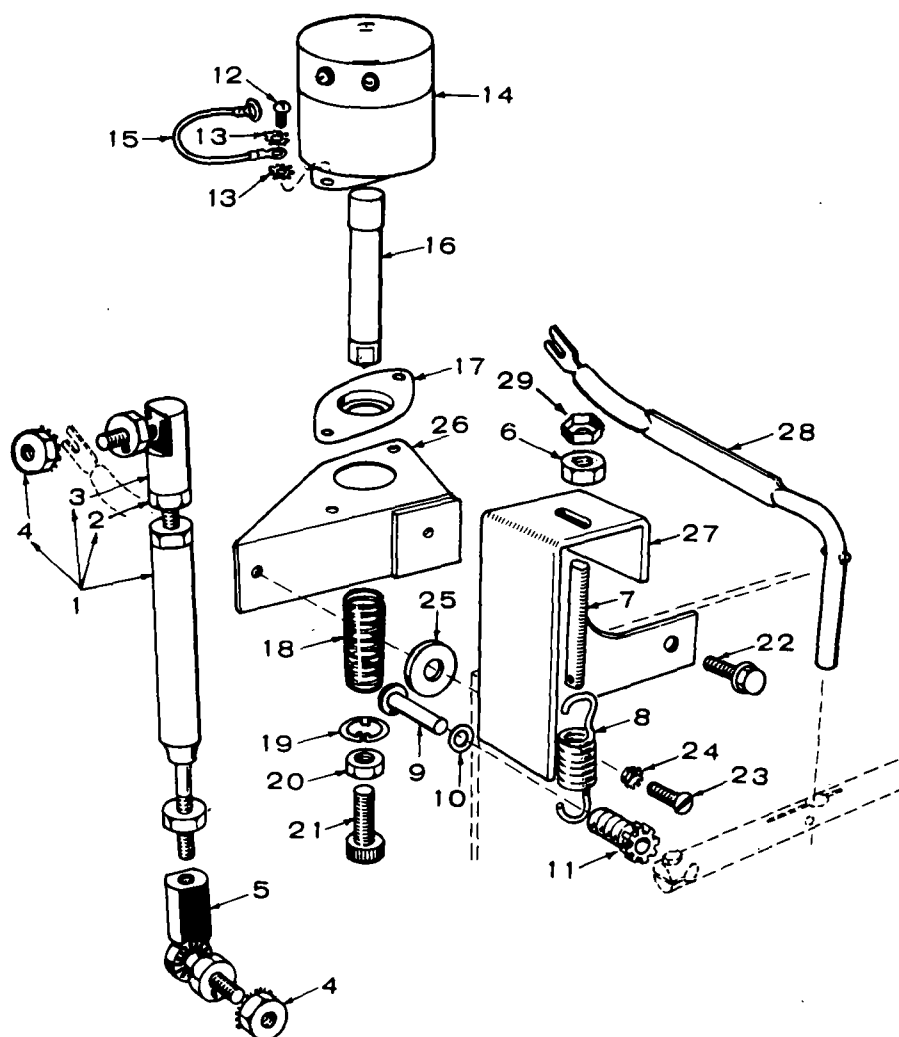
£ - Furnish complete Model, Specification and Serial Numbers from the Onan nameplate when ordering these parts.

CAMSHAFT



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	150-0078	1	Ring, Retaining
2	150-0775	1	Cup, Governor
3	510-0046	5	Ball, Fly - Governor
4	105-0218	1	Gear Assembly, Camshaft (Consists of Following Parts Marked *)
5	150-1674	1	*Spacer, Governor Ball
6	105-0465	1	*Gear, Camshaft
7	150-0773	1	*Plate, Governor Ball Bearing
8	815-0506	3	*Screw, Governor Ball Spacer (10/32 x 1/2")
9	105-0205	1	Washer, Thrust
10	515-0001	2	Key, Woodruff
11	518-0195	1	Ring, Retaining
12	147-0142	1	Gear, Injection pump Drive
13	105-0274	1	Camshaft (Includes Pin)
14	150-0075	1	Pin, Camshaft Center

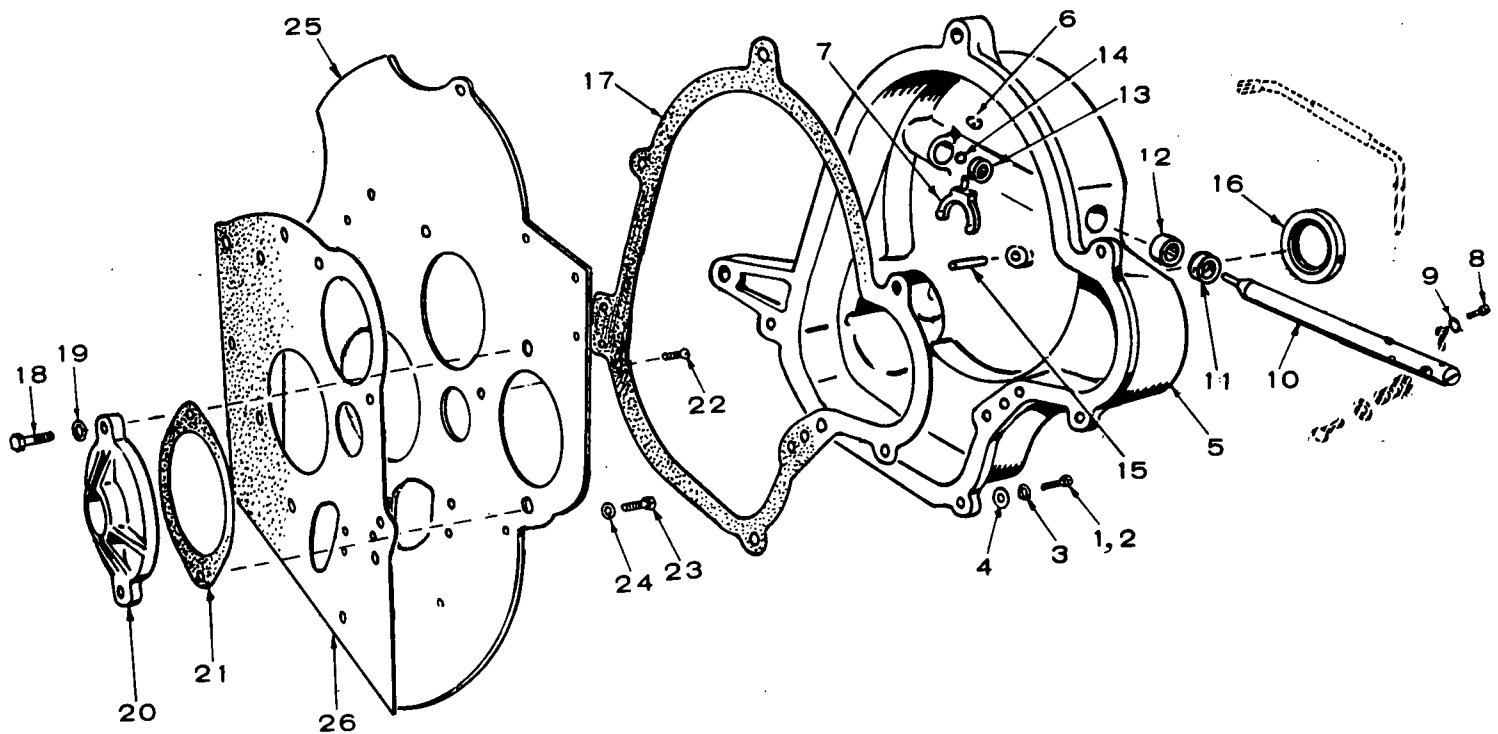
GOVERNOR AND STOP SOLENOID



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	150-1132	1	Linkage Assembly, Governor (Includes Items 2, 3 and 4)	17	306-0162	1	Retainer, Solenoid Plunger
2	871-0010	1	Nut, Hex - Brass (#10-32)	18	306-0161	1	Spring, Solenoid Plunger
3	150-1358	1	Joint, Ball - Governor Arm	19	518-0203	1	Ring, Retaining
4	870-0131	2	Nut, Hex - with External Tooth Lockwasher (#10-32)	20	862-0001	1	Nut, Hex (1/4-20)
5	150-0939	1	Joint, Ball - Injection Pump Arm	21	306-0242	1	Screw, Thumb - Solenoid Adjusting
6	862-0011	1	Nut, Hex - Unplated, Grade 8 (3/8-16)	22	821-0018	1	Screw, Self-Locking - Hex Head (1/4-20 x 5/8")
7	150-1082	1	Stud, Governor Spring	23	814-0151	1	Screw, Machine - Flat Head (1/4-20 x 3/4")
8	150-1084	1	Spring, Governor	24	855-0011	1	Washer, Lock - Countersunk with External Tooth (1/4")
9	150-1154	1	*Pin, Governor Hub	25	526-0180	1	Washer, Flat (17/64" ID x 7/8" OD x 1/8" Thk)
10	150-1155	1	*Washer, Spring Tension	26	306-0158	1	Bracket, Mounting - Solenoid
11	150-1160	1	*Hub, Adjusting - Governor Spring	27	150-1105	1	Bracket, Mounting - Governor Spring
12	812-0148	2	Screw, Machine - Round Head (1/4-20 x 1/2")	28	150-1228	1	Arm, Governor
13	856-0013	2	Washer, Lock - External Tooth (1/4")	29	870-0133	1	Pinnut, Governor Adjusting Lock
14	307-0628	1	Solenoid, Stopping (12 Volt)				
15	336-0706	1	Lead, Electrical - Solenoid Ground				
16	306-0159	1	Plunger, Solenoid				

* - Part of 103-0302 Gear Cover Assembly which is illustrated in a Separate Group.

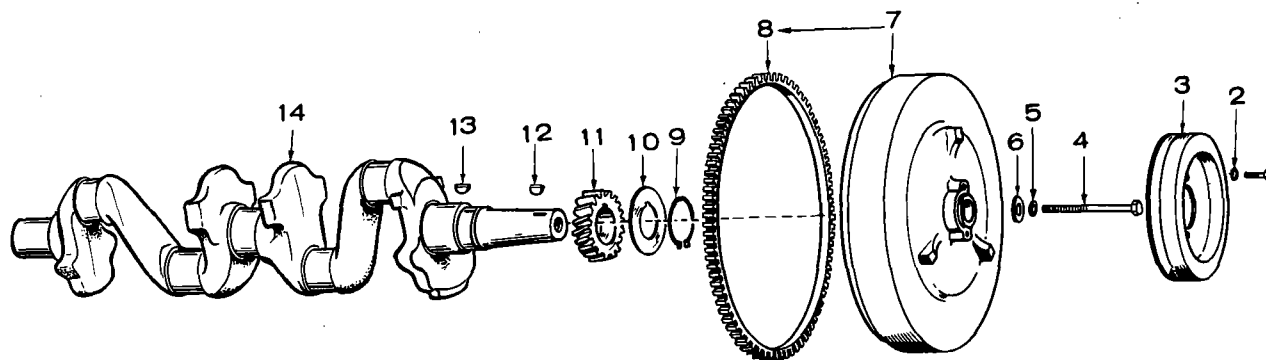
GEARCASE



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	800-0028	1	Screw, Cap - Hex Head (5/16-18 x 1")
2	110-0879	4	Screw, Cap - Hex Head (Special)
3	850-0045	5	Washer, Lock - Spring (5/16")
4	526-0115	4	Washer, Flat (11/32" ID x 11/16" OD x 1/16" Thk)
5	103-0302	1	Cover Assembly, Gear (Includes Parts Marked *)
6	518-0129	1	* Ring, Retaining - Yoke
7	150-0777	1	* Yoke - Governor
8	815-0176	2	* Screw, Machine - Hex Head (#8-32 x 1/2")
9	850-0025	2	* Washer, Lock - Spring (#8)
10	150-0901	1	* Shaft, Governor
11	509-0088	1	* Seal, Oil - Governor Shaft
12	510-0048	1	* Bearing, Needle
13	510-0082	1	* Bearing, Needle
14	510-0043	1	* Ball, Bearing
15	516-0111	1	* Pin, Straight, Headless
16	509-0087	1	Seal, Oil - Crankshaft
17	103-0251	1	Gasket - Gear Cover
18	800-0052	2	Screw, Cap - Hex Head (3/8-16 x 1-1/2")
19	850-0050	2	Washer, Lock - Spring (3/8")
20	103-0221	1	Cover - Backplate Opening
21	160-0721	1	Gasket - Backplate Cover
22	815-0347	2	Screw, Self-locking - Flat Head, Socket Drive (1/4-20 x 1/2")
23	800-0026	1	Screw, Cap - Hex Head (5/16-18 x 3/4")
24	850-0045	1	Washer, Lock - Spring (5/16")
25	103-0522	1	Backplate - Gear Cover
26	103-0218	1	Gasket - Gear Cover Backplate

* - Included in 103-0302 Gear Cover Assembly.

CRANKSHAFT AND FLYWHEEL

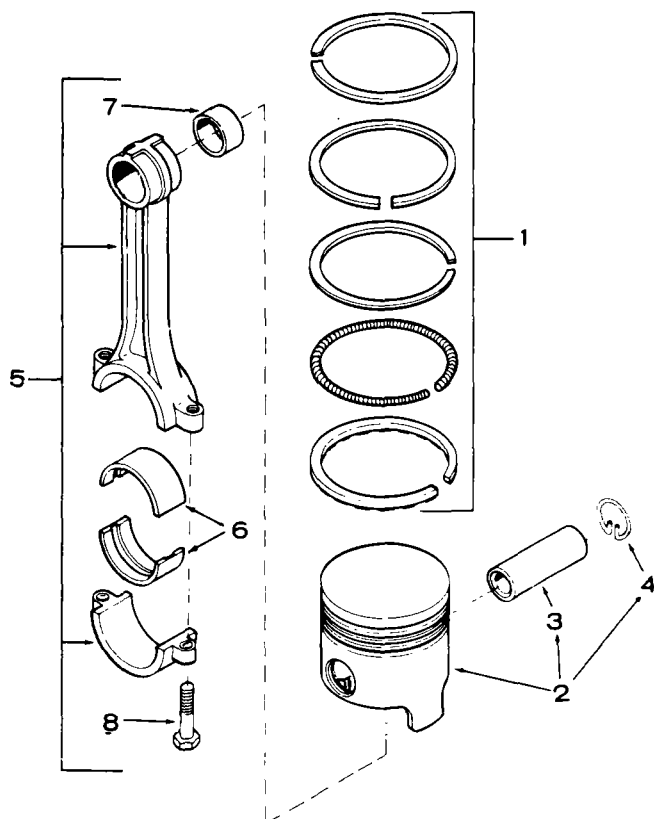


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	800-0050	2	Screw, Cap - Hex Head (3/8-16 x 1")
2	850-0050	2	Washer, Lock - Spring (3/8")
3	104-0949	1	Pulley
4	800-0500	1	Screw, Cap - Hex Head (Special)
5	850-0055	1	Washer, Lock - Spring (7/16")
6	526-0185	1	Washer, Flat (15/32" ID. x 1-1/2" OD x 3/8" Thk)
7	104-0448	1	Flywheel (Includes Ring Gear)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
8	104-0423	1	Gear, Ring
9	518-0188	1	Ring, Retaining
10	104-0416	1	Washer, Thrust
11	104-0418	1	Gear, Crankshaft
12	515-0153	1	Key, Woodruff
13	515-0001	1	Key, Woodruff
14	104-0463	1	£ Crankshaft

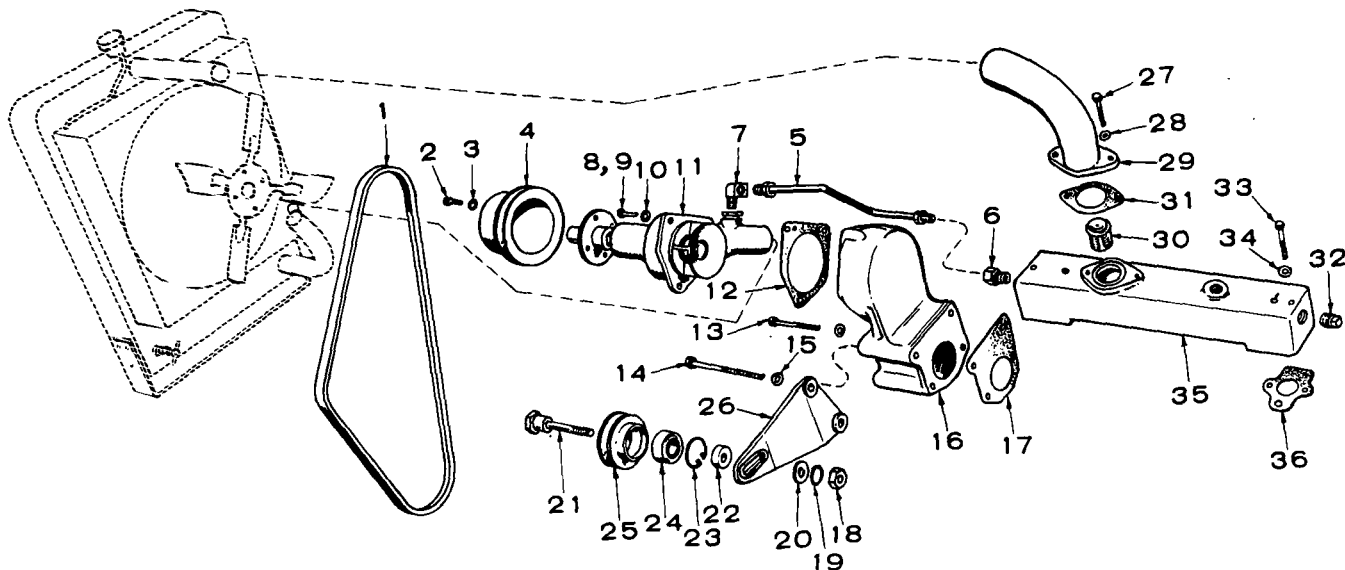
£ - Furnish complete Model, Specification and Serial Numbers from Onan nameplate when ordering this part.

PISTON AND ROD



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	RING SET, PISTON		
	113-0137	4	Standard
	113-0137-05	4	.005" Oversize
	113-0137-10	4	.010" Oversize
	113-0137-20	4	.020" Oversize
	113-0137-30	4	.030" Oversize
	113-0137-40	4	.040" Oversize
2	PISTON AND PIN (Includes Pin Retaining Rings)		
	112-0118	4	Standard
	112-0118-05	4	.005" Oversize
	112-0118-10	4	.010" Oversize
	112-0118-20	4	.020" Oversize
	112-0118-30	4	.030" Oversize
	112-0118-40	4	.040" Oversize
3	112-0117	4	Pin, Piston
4	112-0085	8	Ring, Retaining - Piston Pin
5	114-0168	4	Rod Assembly, Connecting (Forged)
6	BEARING HALF, CONNECTING ROD		
	114-0164	8	Standard
	114-0164-02	8	.002" Undersize
	114-0164-10	8	.010" Undersize
	114-0164-20	8	.020" Undersize
	114-0164-30	8	.030" Undersize
7	114-0170	8	Bushing, Piston Pin, Connecting Rod, Semi-finished
8	805-0012	8	Bolt (5/16-24 x 1-13/16"), Place - Connecting Rod

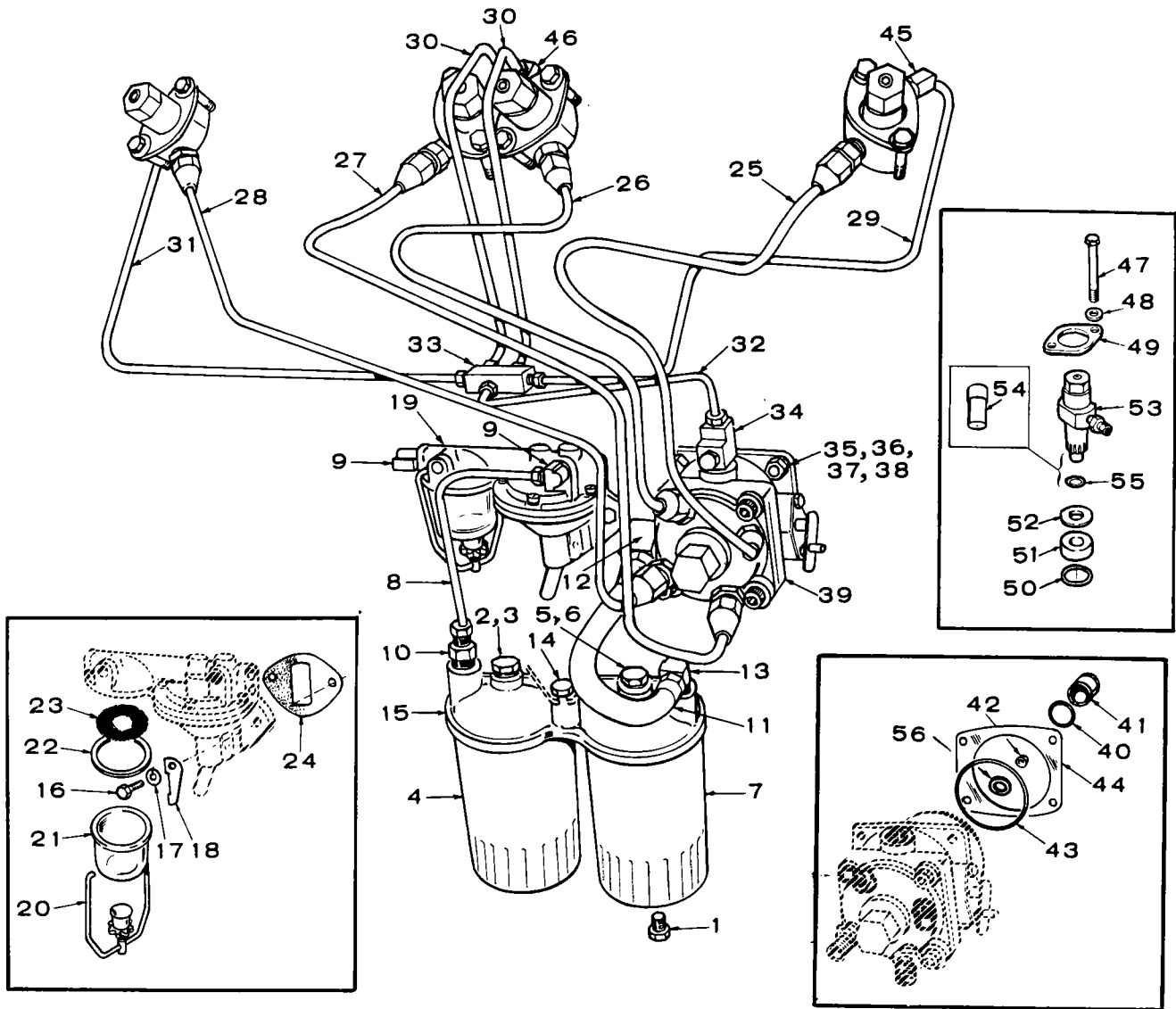
COOLING SYSTEM



NOTE: Phantom items are not standard engine parts; refer to Optional Equipment Parts Section and/or to the factory for replacement information.

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	511-0066	1	Belt, Drive	18	110-0707	1	Nut, Hex (Special)
2	800-0027	3	Screw, Cap - Hex Head (5/16-18 x 7/8")	19	850-0060	1	Washer, Lock - Spring (1/2")
3	850-0045	3	Washer, Lock - Spring (5/16")	20	526-0035	1	Washer, Flat (17/32" ID x 7/8" OD x 1/8" Thk)
4	512-0039	1	Pulley	21	130-0556	1	Shaft, Idler Pulley
5	130-0592	1	Line, Water - Bypass	22	130-0560	1	Spacer, Idler Pulley
6	502-0036	1	Connector, Pipe - Inverted Male	23	518-0210	1	Ring, Retaining
7	502-0043	1	Elbow, Pipe - 90°, Inverted Male	24	510-0025	1	Bearing, Ball
8	800-0031	1	Screw, Cap - Hex Head (5/16-18 x 1-1/2")	25	130-0557	1	Pulley, Idler
9	800-0027	3	Screw, Cap - Hex Head (5/16-18 x 7/8")	26	130-0680	1	Bracket, Idler Pulley
10	526-0065	4	Washer, Flat - Copper (21/64" ID x 9/16" OD x 1/16" Thk)	27	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/4")
11	132-0133	1	Pump, Water	28	526-0065	2	Washer, Flat - Copper (21/64" ID x 9/16" OD x 1/16" Thk)
12	132-0072	1	Gasket - Water Pump	29	131-0138	1	Elbow, Flanged - Water Outlet
13	800-0057	2	Screw, Cap - Hex Head (3/8-16 x 2-3/4")	30	309-0054	1	Thermostat
14	800-0064	2	Screw, Cap - Hex Head (3/8-16 x 4-1/2")	31	131-0140	1	Gasket
15	526-0066	4	Washer, Flat - Copper (25/64" ID x 9/16" OD x 1/16" Thk)	32	505-0110	3	Plug, Pipe - Sq. Head (3/8" NPT)
16	131-0186	1	Housing, Water Pump	33	800-0034	4	Screw, Cap - Hex Head (5/16-18 x 2-1/4")
17	131-0139	1	Gasket - Water Pump Housing	34	526-0065	4	Washer, Flat - Copper (21/64 ID x 9/16 OD x 1/16" Thk)
				35	131-0137	1	Housing, Water Outlet - Cylinder Head
				36	309-0145	2	Gasket - Water Outlet Housing

FUEL SYSTEM



FUEL SYSTEM

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	502-0080	2	Plug - Fuel Filter Drain	32	149-1062	1	Line, Fuel - Adapter to Injection Pump
2	801-0074	1	Screw, Cap - Hex Head (7/16-20 x 1-3/4")	33	502-0245	1	Manifold - Fuel Return Lines
3	526-0068	1	Washer, Flat - Copper (29/64" ID x 3/4" OD x 1/16" Thk)	34	147-0183	1	£ Valve, Check - Injection Pump
4	122-0325	1	Filter, Fuel - Primary	35	110-0445	4	Nut, Hex (Special)
5	801-0053	1	Screw, Cap - Hex Head (3/8-24 x 1-3/4")	36	850-0045	4	Washer, Lock - Spring (5/16")
6	526-0066	1	Washer, Flat - Copper (25/64" ID x 9/16" OD x 1/16" Thk)	37	526-0115	4	Washer, Flat (11/32" ID x 11/16" OD x 1/16" Thk)
7	122-0326	1	Filter, Fuel - Secondary	38	520-0129	4	Stud (5/16-18 x 5/16-24 x 1-17/32" Lg)
8	149-1189	1	Line, Fuel - Pump to Filter	39	147-0232	1	Pump, Fuel - Injection (Includes Mounting Gasket)(Includes Parts Marked £)
9	502-0002	2	Elbow, Pipe - 90°, Brass (1/8" NPT)	40	147-0196	1	£Gasket, O-Ring - Pump Tappet
10	502-0003	1	Connector, Pipe - Brass (1/8" NPT)	41	147-0182	1	£Tappet, Pump
11	501-0129	1	Line, Fuel - Flexible, Filter to Injection Pump	42	BUTTON, PLUNGER - INJECTION PUMP		
12	502-0039	1	Elbow, Pipe - 90°, Brass (1/4" NPT)	147-0147	1	£.119 - Marked 1 or A	
13	502-0099	1	Elbow, Pipe - 90°, Reducing, Brass (1/4" NPT x 1/8" NPT)	147-0148	1	£.116 - Marked 2 or B	
14	821-0016	3	Screw, Self-locking - Hex Head (5/16-18 x 3/4")	147-0149	1	.113 - Marked 3 or C	
15	149-1185	1	Adapter, Mtg. - Fuel Filters	147-0150	1	.110 - Marked 4 or D	
16	802-0054	2	Screw, Cap - Slotted Head (5/16-18 x 7/8")	147-0151	1	.107 - Marked 5 or E	
17	850-0045	2	Washer, Lock - Spring (5/16")	147-0161	1	.104 - Marked 11 or No Mark	
18	149-1307	2	Stiffener - Fuel Pump Flange	147-0152	1	.101 - Marked 6 or F	
19	•149-1020	1	Pump, Fuel (Includes Mounting Gasket)(Includes Parts Marked †)	147-0153	1	.098 - Marked 7 or H	
20	†BAIL, FUEL PUMP BOWL			147-0154	1	.095 - Marked 8 or J	
	149-1006	1	3-5/8" Long	147-0155	1	.092 - Marked 9 or K	
	149-1169	1	2-7/8" Long	147-0156	1	.089 - Marked 10 or L	
21	†BOWL, FUEL PUMP			147-0190	1	£.122 - Marked 12 or M	
	149-0116	1	2-3/8" Long	147-0189	1	£.125 - Marked 13 or N	
	149-1168	1	1-5/8" Long	147-0188	1	.128 - Marked 14 or P	
22	149-0517	1	†Gasket - Fuel Pump Bowl	147-0187	1	.131 - Marked 15 or R	
23	149-0463	1	†Screen - Fuel Pump	147-0186	1	.134 - Marked 16 or S	
24	149-0792	1	†Gasket - Fuel Pump Mounting	43	509-0094	1	£Gasket, O-Ring - Injection Pump Mounting
25	149-1150	1	Line, Fuel - Pump to #1 Cyl. Nozzle	44	147-0145	1	Kit, Shim - Injection Pump Mtg.
26	149-1151	1	Line, Fuel - Pump to #2 Cyl. Nozzle	45	502-0065	2	Elbow, Pipe - 45°, Brass (1/8" NPT)
27	149-1152	1	Line, Fuel - Pump to #3 Cyl. Nozzle	46	502-0002	2	Elbow, Pipe - 90°, Brass (1/8" NPT)
28	149-1153	1	Line, Fuel - Pump to #4 Cyl. Nozzle	47	141-0171	8	Screw, Cap - Hex Head (Special)
29	149-1060	1	Line, Fuel - #1 Cyl. Nozzle to Adapter	48	526-0122	8	Washer, Flat (11/32 ID x 23/32 OD x 0.1345" Thk)
30	149-1059	2	Line, Fuel - #2 & 3 Cyl. Nozzle to Adapter	49	147-0141	4	Flange, Retaining - Nozzle
31	149-1061	1	Line, Fuel - #4 Nozzle to Adapter	50	110-0419	4	Gasket, Copper - Nozzle
				51	147-0044	8	Shield, Heat - Nozzle
				52	147-0043	4	Gasket, Asbestos - Nozzle
				53	147-0136	4	Nozzle & Holder Assembly (Includes Parts Marked *)
				54	147-0134	4	*Nozzle
				55	147-0243	4	*Gasket, Nozzle
				56	147-0259	1	£ Ring, Retaining - Timing Button

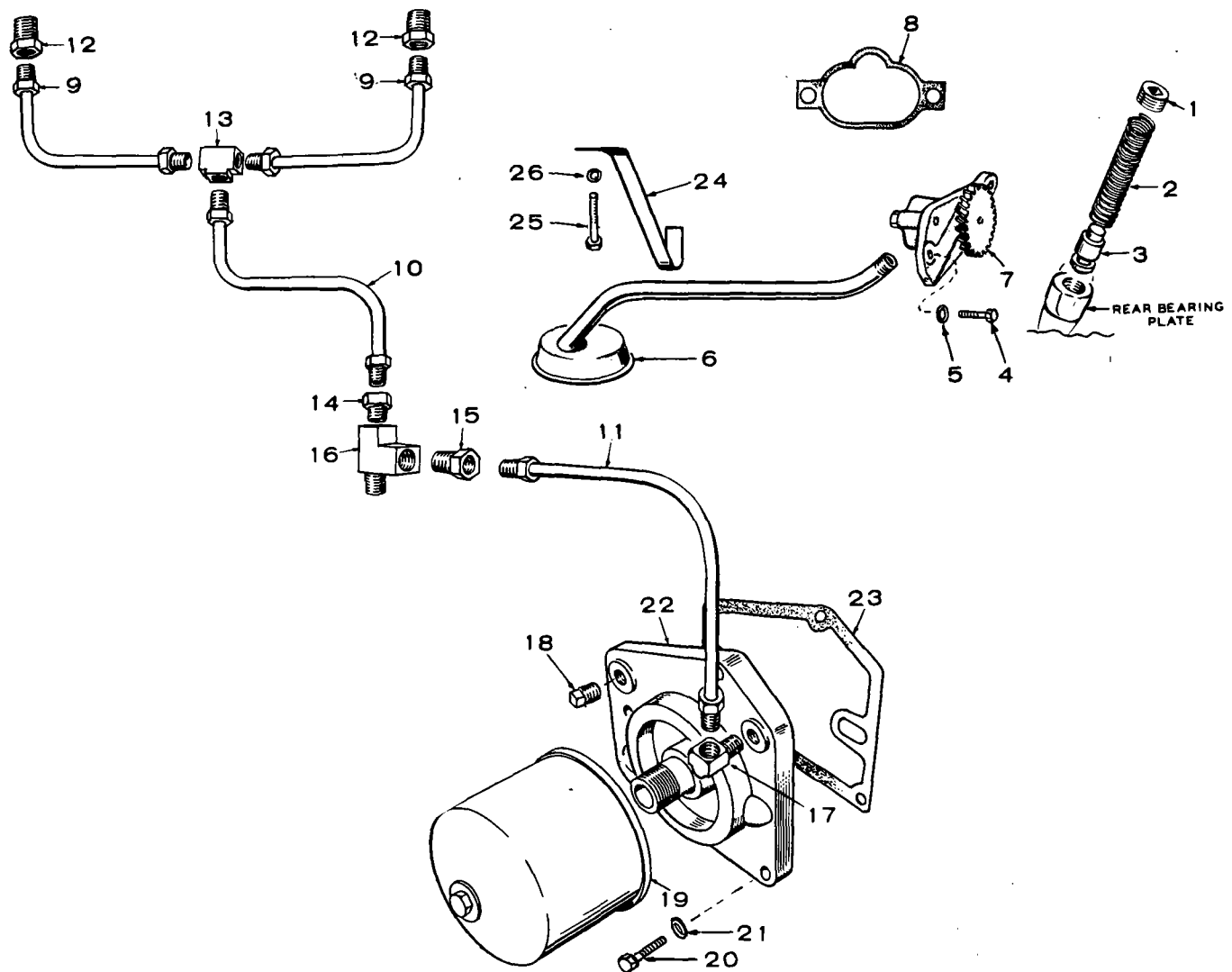
† - Included in 149-1020 Fuel Pump, Measure for correct length before ordering.

£ - Included in 147-0232 Injection Fuel Pump.

* - Included in 147-0136 Nozzle and Holder Assembly.

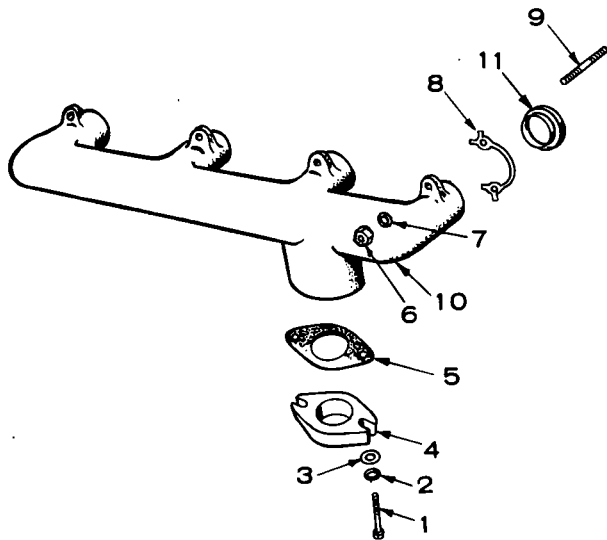
• - For Repair Kit, Use 149-1046.

OIL SYSTEM



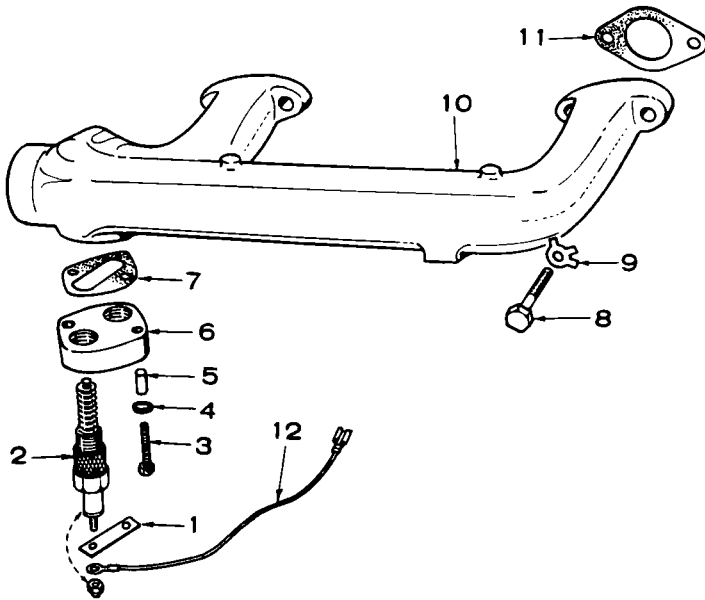
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	505-0274	1	Plug, Pipe - Countersunk - Oil Bypass	16	502-0242	1	Tee, Restricted - Injection Pump Lubrication
2	120-0555	1	Spring, Bypass Valve	17	502-0037	1	Elbow, Pipe - Brass, 90°
3	120-0539	1	Valve, Oil Bypass	18	505-0057	2	Plug, Pipe - Square Head (1/8" NPT)
4	800-0030	2	Screw, Cap - Hex Head (5/16"-18 x 1-1/4")	19	FILTER, OIL		
5	850-0045	2	Washer, Lock - Spring (5)16"	122-0185		1	4-3/8" Long
6	120-0601	1	Cup Assembly, Oil Pump Intake	122-0193		1	6" Long
7	120-0547	1	Pump Assembly, Oil	20	800-0028	3	Screw, Cap - Hex Head (5/16"-18 x 1")
8	120-0580	1	Gasket Kit, Oil Pump	21	850-0045	3	Washer, Lock - Spring (5)16"
9	120-0695	2	Line, Oil - Cylinder Head	22	122-0182	1	Adapter, Oil Filter
10	120-0697	1	Line, Oil - Tee to Tee	23	122-0188	1	Gasket, Oil Adapter
11	120-0636	1	Line, Oil - Adapter to Tee	24	120-0602	1	Bracket, Oil Pump Intake Cup
12	502-0281	2	Connector, Pipe - Inverted Male, Cylinder Head	25	800-0025	1	Screw, Cap - Hexhead (5/16"-18 x 5/8")
13	502-0373	1	Tee, Inverted Flare	26	850-0045	1	Washer, Lock - Spring (5/16)
14	502-0097	1	Connector, Pipe - Inverted Male, Injection Pump Tee				
15	502-0274	1	Connector, Pipe - Inverted Male, Injection Pump Tee				

EXHAUST MANIFOLD



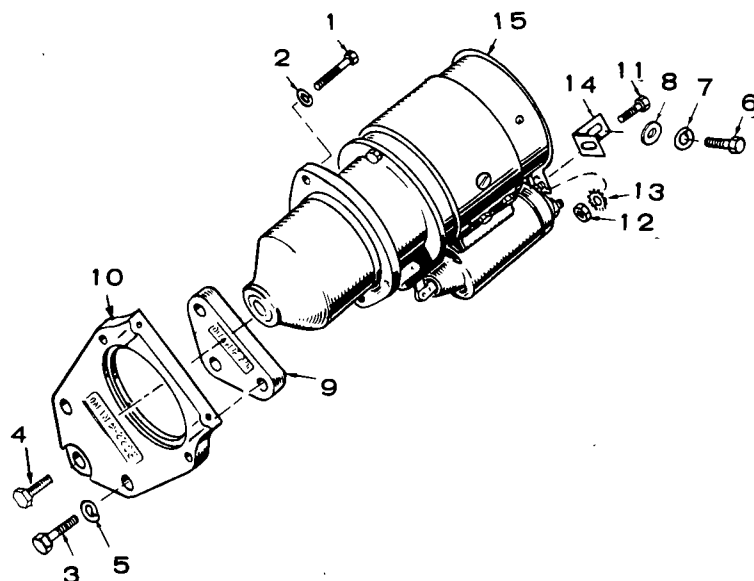
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	800-0053	2	Screw, Cap - Hex Head (3/8-16 x 1-3/4")
2	850-0050	2	Washer, Lock - Spring (3/8")
3	526-0174	2	Washer, Flat (13/32" ID x 25/32" OD x .134" Thk)
4	155-0782	1	Flange, Exhaust
5	154-0738	1	Gasket, Exhaust Flange
6	110-0445	8	Nut, Hex (Special)
7	526-0045	8	Washer, Flat (21/64" ID x 5/8" OD x 1/8" Thk)
8	154-1665	4	Lock Tab
9	520-0608	8	Stud (5/16-24 x 5/16-18 x 2-3/8" LG)
10	154-0714	1	Manifold, Exhaust
11	154-1057	4	Gasket - Exhaust Manifold

INTAKE MANIFOLD



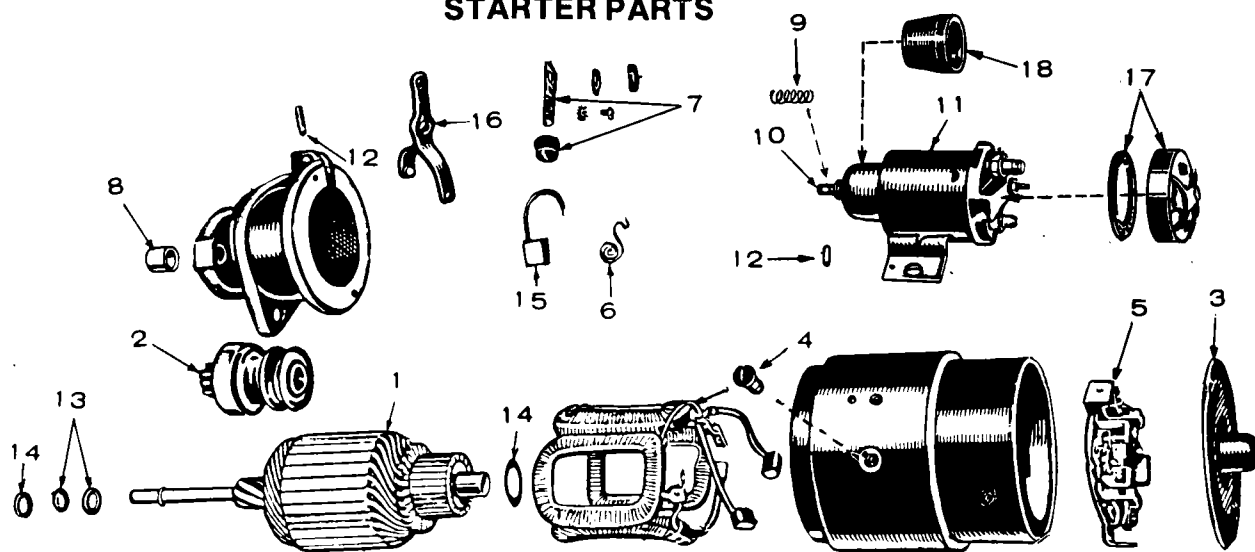
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	332-0829	1	Bar, Jumper - Electrical
2	154-0712	2	Heater, Electrical
3	114-0023	2	Screw, Cap - Hex Head (Special)
4	850-0040	2	Washer, Lock - Spring (1/4")
5	508-0103	2	Bushing, Insulating - Mica
6	140-0705	1	Adapter, Mounting - Heater
7	140-0706	1	Gasket - Heater Adapter
8	800-0031	4	Screw, Cap - Hex Head (5/16-18 x 1-1/2")
9	114-0059	4	Lock Tab
10	154-1358	1	Manifold, Intake
11	154-0733	2	Gasket - Intake Manifold
12	LEAD, ELECTRICAL (HEATER TO GLOW PLUG)		
	336-1504	2	To Cyl. #2 & #3 (12-1/4" Lg)
	336-1505	1	To Cyl. #4 (5-1/4" Lg)
	336-2683	1	To Cyl. #1 (21" Lg)

STARTER



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
2	850-0050	2	Washer, Lock - Spring (3/8")
3	800-0054	2	Screw, Cap - Hex Head (3/8-16 x 2")
4	800-0053	1	Screw, Cap - Hex Head (3/8-16 x 1-3/4")
5	850-0050	3	Washer, Lock - Spring (3/8")
6	800-0047	1	Screw, Cap - Hex Head (3/8-16 x 5/8")
7	850-0050	1	Washer, Lock - Spring (3/8")
8	526-0026	1	Washer, Flat (13/32" ID x 3/4" OD x 1/16" Thk)
9	191-0311	1	Spacer, Starter
10	191-0512	1	Flange, Starter
11	800-0047	1	Screw, Cap - Hex Head (3/8-16 x 5/8")
12	864-0003	1	Nut, Hex (3/8-16)
13	856-0010	1	Washer, Lock - External/Internal Tooth (3/8")
14	191-0365	1	Bracket, Starter
15	191-0324	1	Starter (See separate group for components)

STARTER PARTS



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	191-0324	1	Starter
1	191-0712	1	Armature
2	191-0432	1	Clutch
3	191-1023	1	Head Assembly, Commutator End
4	191-1024	1	Coil Package, Field
5	191-1025	1	Plate Assembly, Brush
6	191-1020	1	Spring Set, Brush (Set of 4)
7	191-1263	1	Connector Package
8	191-0497	1	Bearing (Bronze), Drive End
9	191-1027	1	Spring, Plunger

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
10	191-1028	1	Core Assembly, Moving
11	191-0433	1	Switch, Solenoid
12	191-1029	1	Yoke Parts Package
13	191-1030	1	Stop and Lock Ring Package, Pinion
14	191-1031	1	Thrust Washer Package, Armature (Use as Required)
15	191-0434	1	Brush Set, Service
16	191-1032	1	Yoke
17	191-0468	1	Cover, Solenoid
18	191-1134	1	Boot, Rubber - Part of Moving Core Assembly

SERVICE KITS AND MISCELLANEOUS

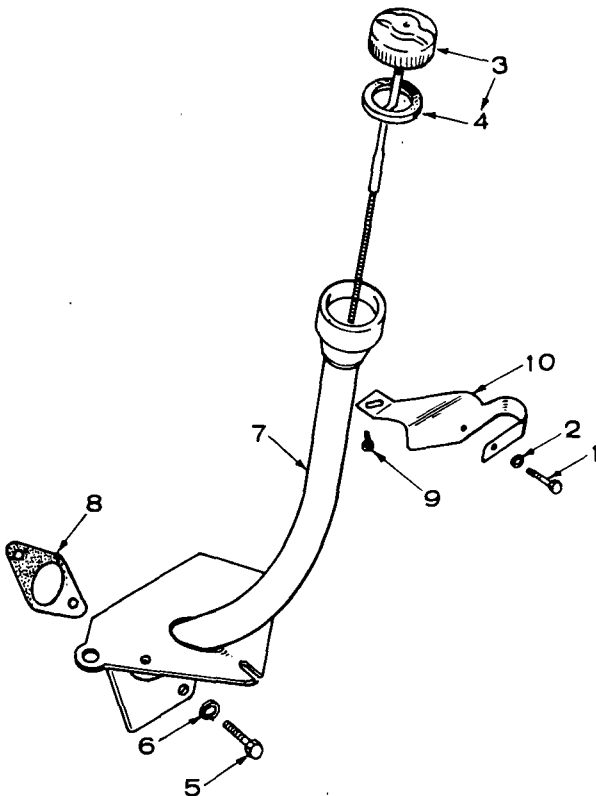
NOTE: For other kits, refer to the group for the part in question.

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	98-1100	1	Decal Kit
	168-0108	1	Gasket Kit, Engine
	522-0283	1	Overhaul Kit, Set
	TOUCH-UP PAINT (Pressurized Can)		
	525-0137	1	Metallic Green (16 oz.)
	525-0305	1	Non-metallic Green (13 oz.)

OPTIONAL EQUIPMENT PARTS SECTION

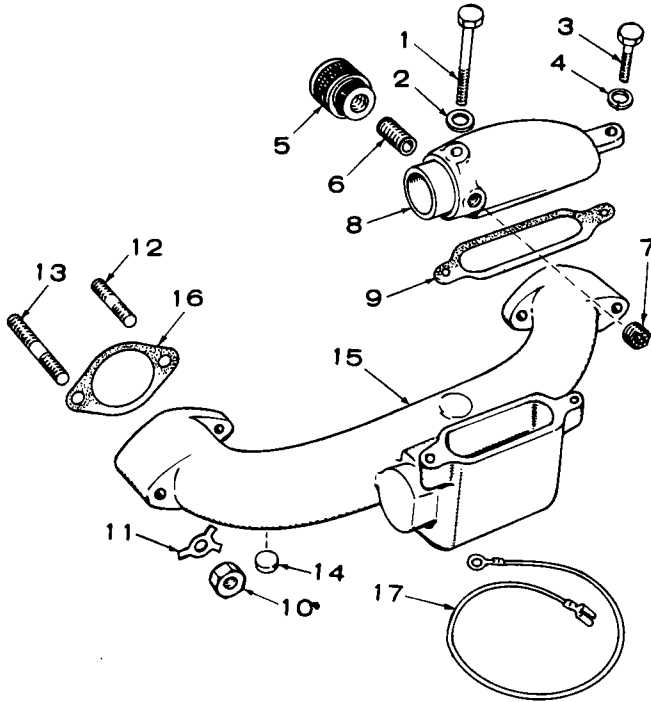
This section contains illustrated parts listing of factory installed options for these Industrial Engines. **NOTE:** Options may not be applicable to all models; for field conversions additional parts are usually required.

CYLINDER BLOCK AND OIL BASE - OPTIONAL



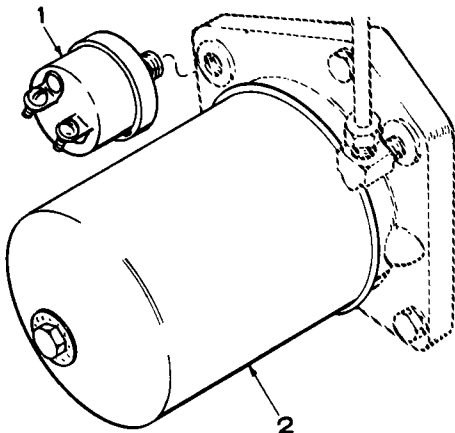
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	810-0155	1	Screw, Machine - Round Head (1/4-20 x 1-1/4")
2	850-0040	1	Washer, Lock - Spring (1/4")
3	123-1352	1	Cap and Indicator - Oil Fill
4	123-0191	1	Gasket - Oil Fill Cap
5	800-0026	2	Screw, Cap - Hex Head (5/16-18 x 3/4")
6	850-0045	2	Washer, Lock - Spring (5/16")
7	123-1335	1	Tube, Oil Fill
8	123-0667	1	Gasket - Oil Fill Tube
9	821-0010	1	Screw, Self-locking - Hex Head (1/4-20 x 1/2")
10	123-1336	1	Clamp - Oil Fill Tube

INTAKE MANIFOLD - OPTIONAL



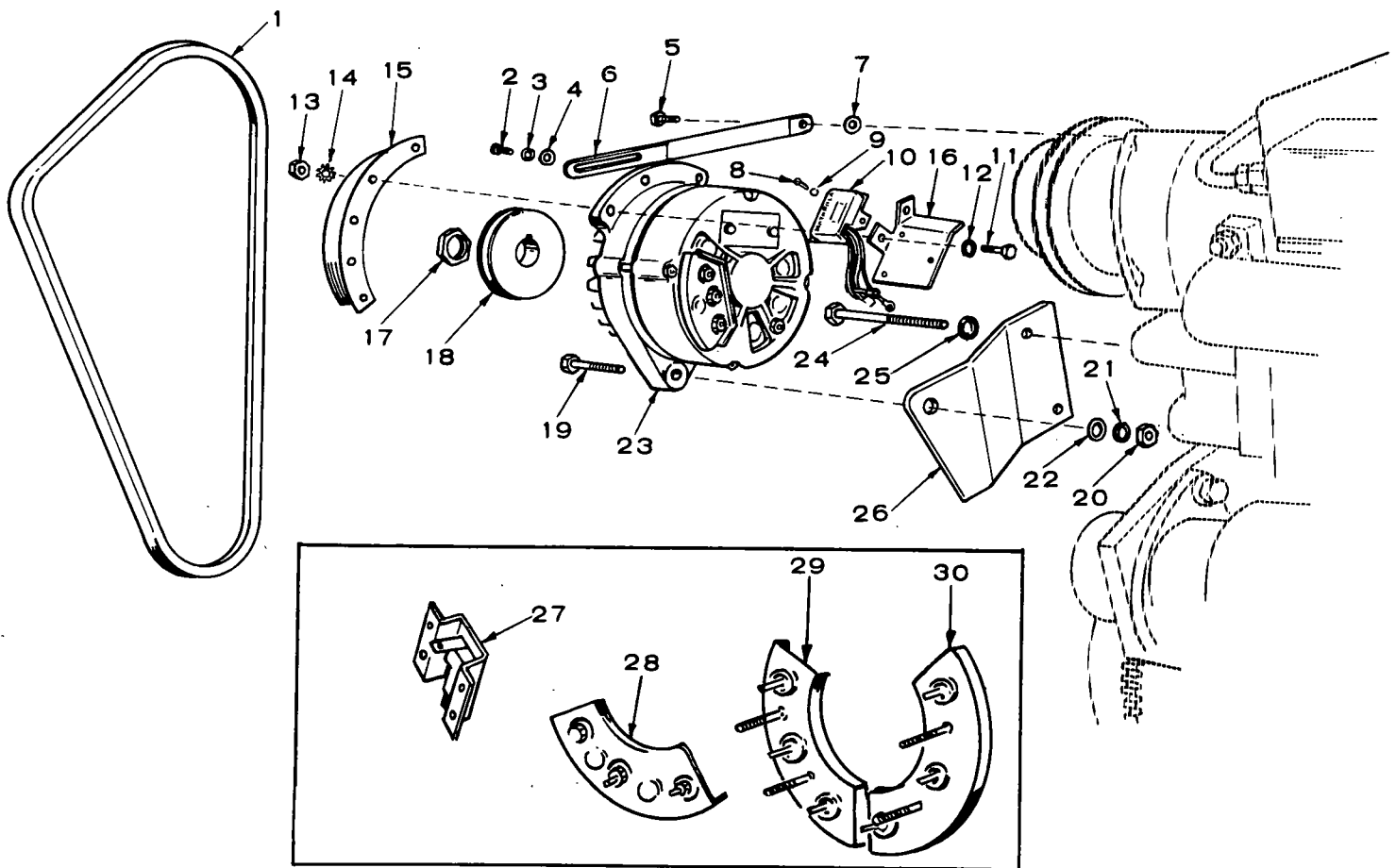
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	800-0015	1	Screw, Cap - Hex Head (1/4-20 x 3")
2	526-0108	1	Washer, Flat (17/64" ID x 7/16" OD x 1/32" Thk)
3	800-0007	1	Screw, Cap - Hex Head (1/4-20 x 1")
4	850-0040	1	Washer, Lock - Spring (1/4")
5	140-0961	1	Indicator, Air Restriction
6	140-1260	1	Fitting, Pipe - Safety Filter
7	505-0008	1	Plug, Pipe - Slotted Head
8	140-1212	1	Adapter - Remote Air Cleaner
9	140-0584	1	Gasket - Air Cleaner
10	870-0137	4	Nut, Self-locking, Hex (5/16-24)
11	114-0059	4	Lock Tab
12	520-0011	2	Stud (5/16-24 x 5/16-18 x 1-3/8")
13	520-0338	2	Stud (5/16-24 x 5/16-18 x 2-7/8")
14	517-0104	1	Plug, Cup - Breather Hole
15	154-1831	1	Manifold, Intake
16	154-0733	2	Gasket - Intake Manifold
17	LEAD, ELECTRICAL (Heater to Glow Plugs)		
	336-1504	2	To Cyl. #1 & #4 (12-1/4" Lg)
	336-1505	2	To Cyl. #2 & #3 (5-1/4" Lg)

OIL SYSTEM - OPTIONAL



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	309-0177	1	Switch, Low Oil Pressure
2	122-0193	1	Filter, Oil (5-3/4" Long)

ALTERNATOR - OPTIONAL



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	511-0101	1	Belt, Drive
2	800-0027	1	Screw, Cap - Hex Head (5/16-18 x 7/8")
3	850-0045	1	Washer, Lock - Spring (5/16")
4	526-0115	1	Washer, Flat (11/32" ID x 11/16" OD x 1/16" Thk)
5	800-1030	1	Screw, Cap - Hex Head, Cadmium Plated, Grade 5 (Special)
6	191-1166	1	Bracket, Adjusting - Alternator
7	526-0065	1	Washer, Flat - Copper (21/64" ID x 9/16" OD x 1/16" Thk)
8	813-0098	3	Screw, Machine - Round Head (#10-32 x 3/8")
9	850-0030	3	Washer, Lock - Spring (#10)
10	191-0642	1	£Regulator, Voltage
11	800-0028	2	Screw, Cap - Hex Head (5/16-18 x 1")
12	850-0045	2	Washer, Lock - Spring (5/16")
13	862-0015	2	Nut, Hex (5/16-18)
14	853-0016	2	Washer, Lock - External Tooth (5/16")
15	191-0725	1	Guard - Belt
16	191-0638	1	Bracket, Mounting - Voltage Regulator
17	—	1	Nut, Hex (5/8 - 18UNF2A x 1/4" Thk) Part of Alternator

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
18	191-0623	1	Pulley - Alternator Drive
19	800-0094	1	Screw, Cap - Hex Head (1/2-13 x 2")
20	862-0016	1	Nut, Hex (1/2-13)
21	850-0060	1	Washer, Lock - Spring (1/2")
22	526-0219	1	Washer, Flat (17/32" ID x 1" OD x 1/8" Thk)
23	191-0543	1	£Alternator - 12 Volt, 35 Amps (Includes Replacement Parts Marked †)
24	800-0064	2	Screw, Cap - Hex Head (3/8-16 x 4-1/2")
25	526-0066	2	Washer, Flat - Copper (25/64" ID x 9/16" OD x 1/16" Thk)
26	191-1167	1	Bracket, Mounting - Alternator
27	191-0659	1	†Brush Holder Assembly
28	191-0663	1	†Diode Assembly - Isolation
29	191-0661	1	†Diode Assembly - Positive
30	191-0662	1	†Diode Assembly - Negative

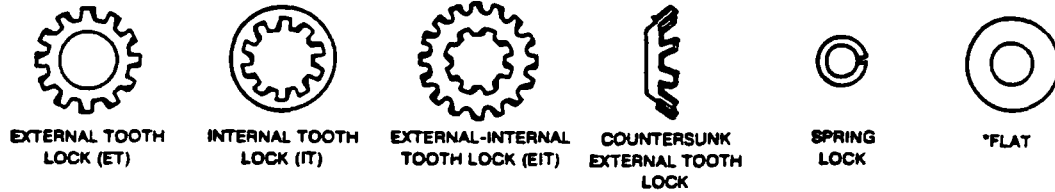
† - Included in 191-0543 Alternator.

£ - For Service and Components Not Listed, Contact your nearest Motorola dealer.

HARDWARE IDENTIFICATION

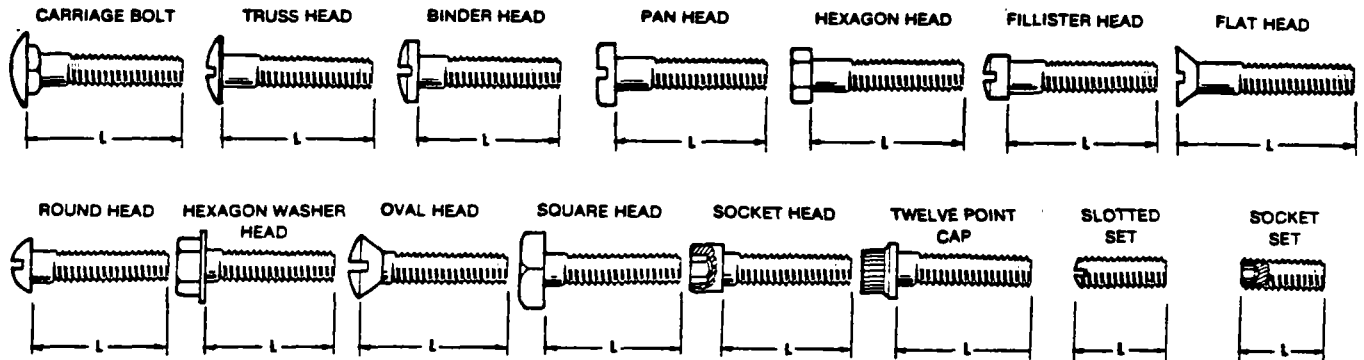
Illustrated hardware items are only for identification purposes. All hardware items listed throughout this parts catalog are steel SAE grade five (5) or lower (zinc plated with clear chromate dip) unless parts description indicates differently. All dimensions are in inches.

WASHER TYPES



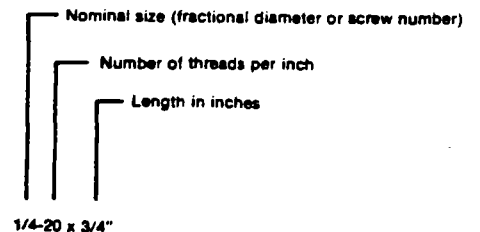
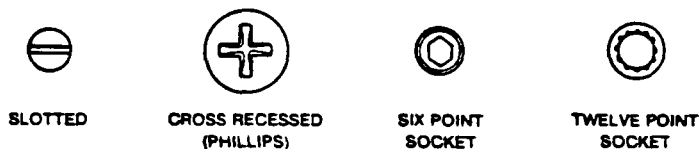
* - Flat washer dimensions given are: Inside Diameter (ID), Outside Diameter (OD) and Thickness (Thk).

BOLT AND SCREW TYPES



L - Measure length between these points.

INTERNAL DRIVE TYPES



NUT TYPES



Crane Corporation
A Subsidiary of
McGraw-Edison Company
1400 73rd Avenue N.E.
Minneapolis, MN 55432

612 574-5000
Telex 29 0476 (U.S.)
Telex 29 0856 (outside U.S.)
TWX 910 576-2833
Cable ONAN

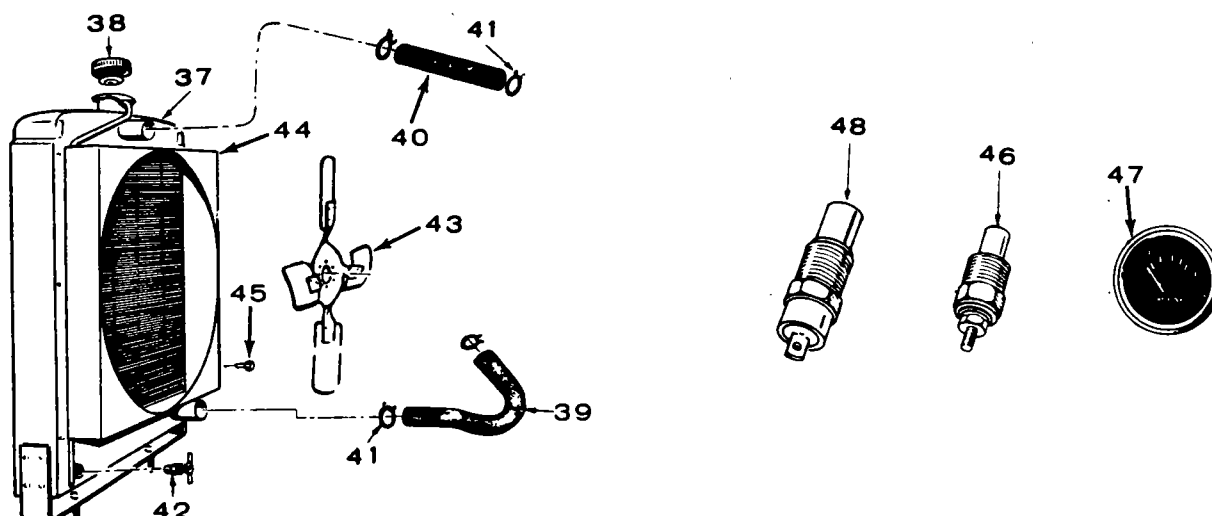
SUPPLEMENTARY PARTS LIST

OPTIONS TO THE 974-0251 RDJF PARTS CATALOG FOR
LIQUID COOLED INDUSTRIAL ENGINES

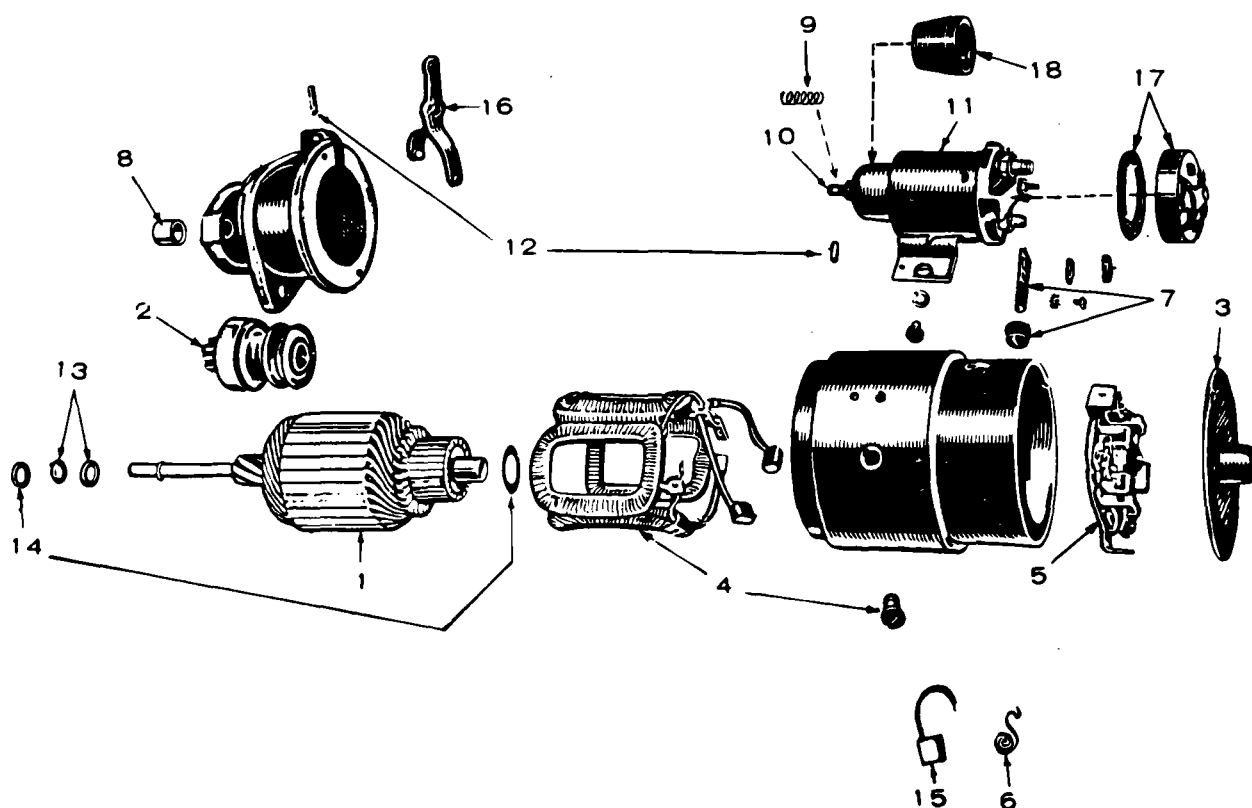
This supplementary parts list applies to RDJF Industrial Engines. Use these parts in place of or in addition to the parts listed in the standard Service Manual and Parts Catalog 974-0251. Parts that are similar and referenced to the parts catalog are not illustrated. Parts listed are optional and do not apply to all models.

<u>REF. NO.</u>	<u>PART NO.</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
	CYLINDER HEAD, VALVE AND ROCKER		
39	333-0107	4	Plug, Glow (24 Volt) - Includes Gasket
	CAMSHAFT		
3	510-0046	10	Ball, Fly-Governor (Used on 10 Ball Governors)
	GOVERNOR AND STOP SOLENOID		
14	307-0668	1	Solenoid, Stopping (24 Volt)
	CRANKSHAFT AND FLYWHEEL		
3	104-1040	1	Pulley, Double Groove
14	104-0464	1	Crankshaft - Job Engine With Clutch
14	104-0947	1	Crankshaft - Splined (15 Tooth)
	INTAKE MANIFOLD		
10	154-1378	1	Manifold, Intake (Includes Adapter for Remote Mounted Air Cleaner)
	EXHAUST MANIFOLD		
10	154-1895	1	Manifold, Exhaust (Top Outlet)
	STARTER-OPTION NO. 1		
15	191-0443	1	Starter, 24 Volt (See Seperate Group For Components)

COOLING SYSTEM

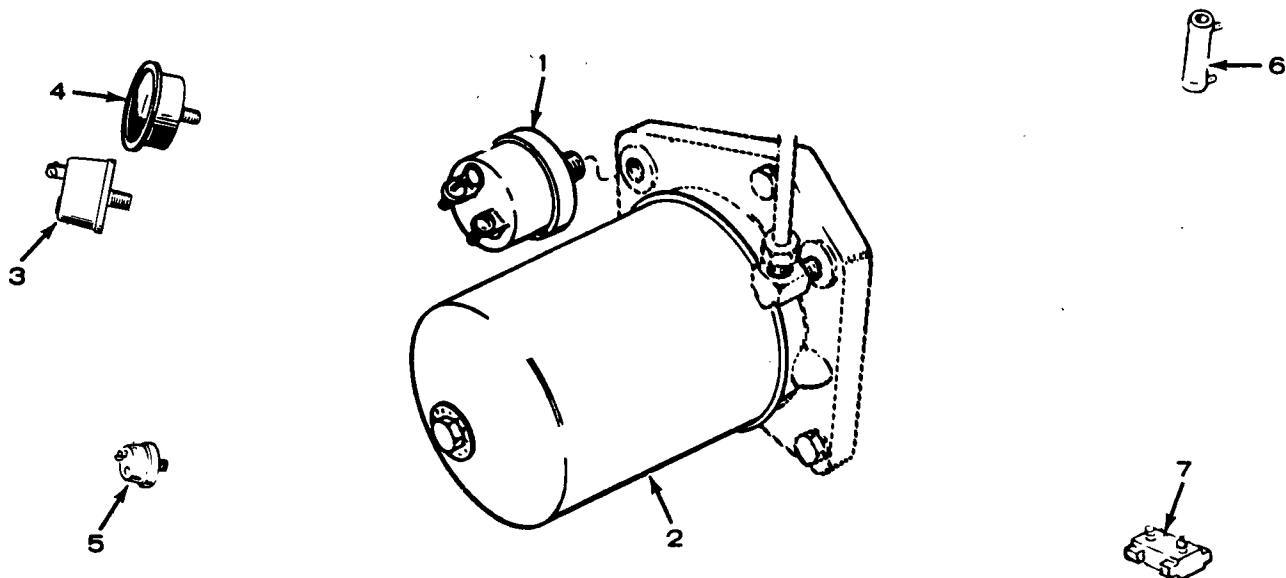


<u>REF. NO.</u>	<u>PART NO.</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
	130-1773	1	Radiator Package (Shipped Loose) - Consists Of Following Parts Marked With *
32	505-0110	2	Plug, Pipe - Square Head (3/8" Npt) (3 Used Without Sending Unit 193-0104)
37	130-0569	1	*Radiator
38	CAP, RADIATOR		
	130-0449	1	*Pressure Valve Opens Between 6-1/4 X 7-1/2 lbs. Per Square Inch
	130-0553	1	Pressure Valve Opens Between 3-1/2 X 4-1/2 lbs. Per Square Inch
39	503-0204	1	*Hose, Radiator - Curved (Lower)
40	503-0400	1	*Hose, Radiator (Upper)
41	503-0129	4	*Clamp, Radiator Hose
42	504-0003	1	*Valve, Radiator Drain
43	130-0343	1	*Fan, Radiator - 4 Blade
44	130-0623	1	*Shroud, Radiator
45	821-0029	4	*Screw, Lock Head (3/8 X 3/4")
46	193-0104	1	Sender, Water Temperature Gauge - Engine Unit
47	193-0106	1	Gauge, Water Temperature (Use With 193-0104 Sending Unit)
48	309-0302	1	Switch, High Temperature Cut Off



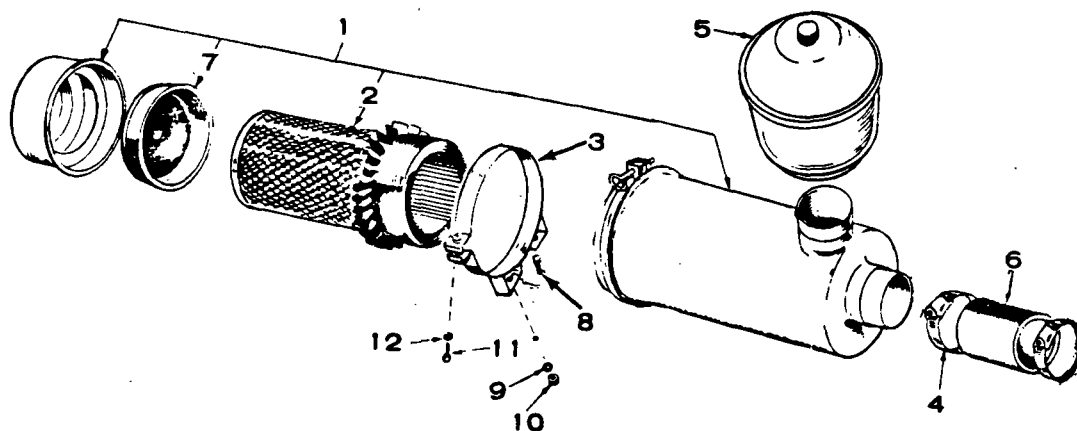
<u>REF. NO.</u>	<u>PART NO.</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
	191-0443	1	Starter, 24 Volt
1	191-0713	1	Armature, 24 Volt
2	191-0432	1	Clutch
3	191-1023	1	Head Assembly, Commutator End
4	191-1043	1	Coil Package, Field - 24 Volt
5	191-1042	1	Plate Assembly, Brush-24 Volt
6	191-1020	1	Spring Set, Brush (Set of 4)
7	191-1263	1	Connector Package
8	191-0497	1	Bearing (Bronze), Drive End
9	191-1027	1	Spring, Plunger
10	191-1028	1	Core Assembly, Moving
11	191-0715	1	Switch, Solenoid - 24 Volt
12	191-1029	1	Yoke Parts Package
13	191-1030	1	Stop and Lock Ring Package, Pinion
14	191-1031	1	Thrust Washer Package, Armature (Use as Required)
15	191-0714	1	Brush Set, Service - 24 Volt
16	191-1032	1	Yoke
17	191-0468	1	Cover, Solenoid
18	191-1134	1	Boot, Rubber - Part of Moving Core Assembly

OIL SYSTEM - OPTION NO. 2



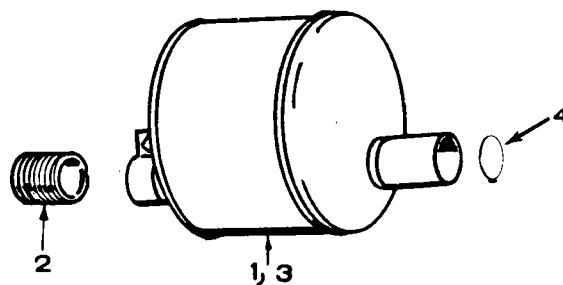
<u>REF. NO.</u>	<u>PART NO.</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	309-0177	1	Switch, Low Oil Pressure, Normally Open-2 Terminal
2	122-0193	1	Filter, Oil (5-3/4" Long)
3	193-0108	1	Sender, Oil Pressure
4	193-0107	1	Gauge, Oil Pressure
5	309-0169	1	Switch, Low Oil Pressure, Normally Closed-1 Terminal
6	304-0217	1	Resistor, Fixed - 1 ohm, 10 Watt
7	320-0104	1	Switch, Cranking Limiter

AIR CLEANER (CONTRACTOR'S TYPE) - OPTION NO. 3



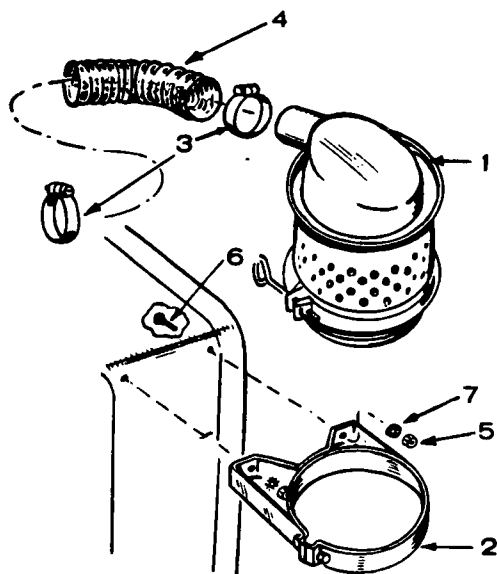
<u>REF. NO.</u>	<u>PART NO.</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	140-0721	1	Cleaner, Air, Includes Element
2	140-0765	1	Element Only, Air Cleaner
3	140-0722	2	Band, Air Cleaner Mounting
4	503-0274	2	Clamp, Hose
5	140-0723	1	Pre-cleaner, Air Cleaner, Plastic
6	503-0444	1	Hose, Air Cleaner
7	140-1267	1	Baffle, Air Cleaner
8	800-0024	4	Screw, Hex Head (5/16-18 X 1/2)
9	850-0045	4	Lockwasher (5/16)
10	862-0015	4	Nut, Hex (5/16-18)
11	800-0003	2	Screw Hex Head - Cleaner To Bracket (1/4-20 X 1/2")
12	862-0001	2	Nut, Hex - Cleaner to Bracket (1/4-20)

MUFFLER - OPTION NO. 4



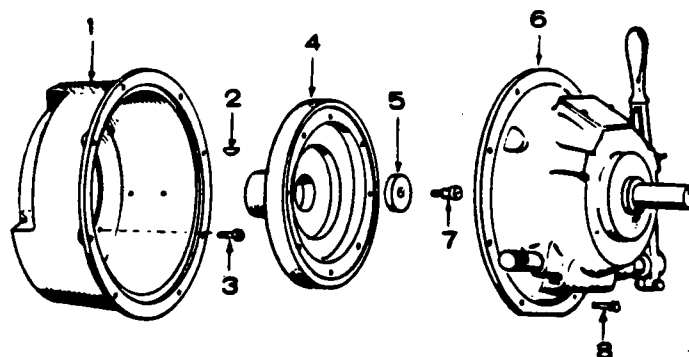
<u>REF. NO.</u>	<u>PART NO.</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	155-0824	1	Muffler, Exhaust (10-3/8" Lg.)
2	505-0220	1	Nipple, Exhaust
	542-7500	1	Kit, Muffler (Consists Of Following Parts Marked *)
3	155-1500	1	*Muffler (1-1/2 - 11-1/2 NPT Both Ends) (15.25" Lg)
4	155-0985	1	*Cap, Rain

OIL BATH AIR CLEANER - OPTION NO. 5



<u>REF. NO.</u>	<u>PART NO.</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
	140-0679	1	Conversion Kit, Oil Bath Air Cleaner (Includes all parts in this group)
1	140-0500	1	Cleaner, Air - Oil Bath
2	140-0519	1	Band, Air Cleaner
3	503-0274	2	Clamp, Hose
4	503-0444	1	Hose, Air Cleaner to Adapter
5	862-0001	2	Nut, Hex - Cleaner to Bracket (1/4-20)
6	800-0003	2	Screw, Cap - Hex Head (1/4-20 X 1/2")
7	850-0040	2	Washer, Lock - Spring (1/4")

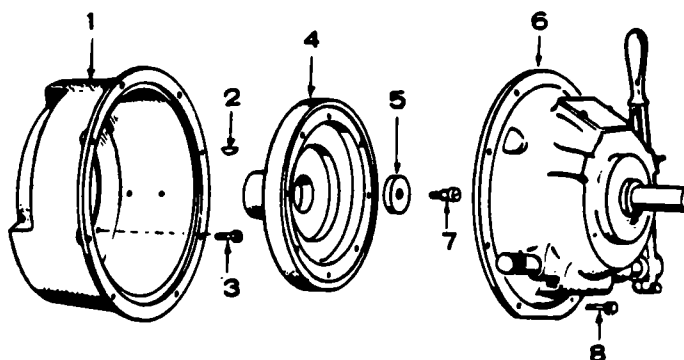
CLUTCH (TWIN DISC) - OPTION NO. 6



<u>REF. NO.</u>	<u>PART NO.</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	190-0251	1	Housing, Clutch
2	515-0006	1	Key, Clutch
3	805-0019	4	Bolt, Place (3/8-16 X 1-7/16'')
4	190-0253	1	Flange, Adapter
5	190-0254	1	Washer, Flat - Special
6	190-0325	1	*Clutch Assembly
7	800-0053	1	Screw, Cap - Hex Head (3/8-16 X 1-3/4'')
8	800-0074	8	Screw, Cap - Hex Head (7/16-14 X 1-3/4'')

* - For components, check Clutch nameplate and contact your nearest Twin Disc dealer.

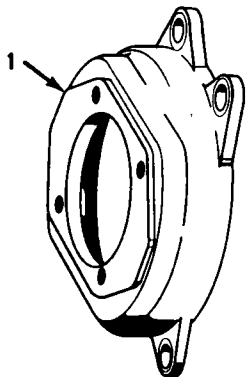
CLUTCH (ROCKFORD) - OPTION NO. 7



<u>REF. NO.</u>	<u>PART NO.</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	190-0251	1	Housing, Clutch
2	515-0006	1	Key, Clutch
3	805-0019	4	Bolt, Place (3/8-16 X 1-7/16'')
4	190-0252	1	Flange, Adapter
5	190-0254	1	Washer, Flat-Special
6	190-0258	1	*Clutch Assembly
7	800-0053	1	Screw, Cap - Hex Head (3/8-16 X 1-3/4'')
8	800-0074	8	Screw, Cap - Hex Head (7/16-14 X 1-3/4'')

* - For components, check Clutch nameplate and contact your nearest Rockford dealer.

MISCELLANEOUS OPTIONS



<u>REF. NO.</u>	<u>PART NO.</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	121-0024	1	Adapter, Hydraulic Pump

SPECIAL PARTS LIST FOR **MODEL** RDJF-MS **SPEC** 3212A
 FOR STANDARD PARTS REFER TO **CATALOG** 974-0251 **KEY NO.** -
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. _____

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Low Oil Pressure Cut Off					
120-0551	1	Cup Assembly, Oil Pump Intake			
191-1190	1	Flange, Starter			
502-0053	1	Elbow, Street (45°)			
416-0096	1	Harness Support - Clamp			
511-0101	1	Belt, Fan			
191-1173	1	Bracket, Alternator Mounting			
191-1278	1	Spacer, Alternator Support Bracket			
191-1277	1	Bracket, Alternator Support			
140-1038	1	Cleaner, Air - Contractor Type (Consists Of Following Parts Marked *)			
140-0721	1	*Cleaner, Air (Consists Of Following Parts Marked **)			
140-0765	1	**Element			
140-1267	1	**Baffle Assembly			
140-0722	2	*Band, Air Cleaner			
503-0274	2	*Clamp, Hose			
503-0444	1	*Hose, Air Cleaner			
140-0723	1	*Pre-Cleaner Assembly			
130-0569	1	Radiator			
130-0553	1	Cap, Radiator			
130-0343	1	Fan, Radiator - 4 Blade			
503-0204	1	Hose, Radiator - Curved			
503-0400	1	Hose, Radiator (1-1/2 I.D. X 16-7/8" Lg)			

SPECIAL PARTS LIST FOR **MODEL** RDJF-MS **SPEC** 3217A
 FOR STANDARD PARTS REFER TO **CATALOG** 974-0251 **KEY NO.** -
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. _____

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
104-0947	1	Crankshaft (Special Spline)			
191-1190	1	Flange, Starter			
306-0561	1	Bracket, Mounting - Solenoid			
150-1586	1	Governor Control Assembly (Consists Of Following Parts Marked *)			
150-1587	1	*Spacer			
150-1588	1	*Pivot, Arm Assembly (Consists Of Following Parts Marked **)			
150-1589	1	**Arm, Pivot			
152-0155	1	**Swivel, Choke Lever			
516-0059	1	**Pin, Cotter			
150-1590	1	*Bracket, High Speed Stop			
150-1591	1	*Bracket, Mounting			
149-1455	1	Line, Fuel - #4 Nozzle To Adapter			
502-0090	1	Tee, Water Pump (3/8")			
502-0155	1	Plug, Square Head Pipe - Water Pump (3/8" Brass)			
505-0101	1	Nipple, Close - Water Pump (3/8 X 1")			
511-0101	1	Belt, Fan			
191-1173	1	Bracket, Alternator Mounting			
191-1277	1	Bracket, Alternator Support			
191-1278	1	Spacer, Alternator Support Bracket			
130-0343	1	Fan, Radiator - (4 Blade)			

SPECIAL PARTS LIST FOR MODEL RDJF-MS SPEC 3323A
 FOR STANDARD PARTS REFER TO CATALOG 974-0251 KEY NO. -
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. _____

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Low Oil Pressure Cut Off			140-0721	1	**Cleaner, Air
			140-0722	2	**Band, Air Cleaner
505-0100	1	Nipple, Close - Oil Drain	140-0723	1	**Pre-Cleaner - Air Cleaner
504-0011	1	Valve, Oil Drain	300-1514	1	**Panel, Control (Consists Of Following Parts Marked --)
505-0185	1	Nipple, Half - Oil Drain	405-2277	1	--Panel, Rear Housing
503-0197	1	Clamp, Hose - Oil Drain	193-0107	1	--Gauge, Oil Pressure
503-0316	1	Hose, Oil Drain	193-0106	1	--Gauge, Water Temperature
191-1190	1	Flange, Starter	302-0061	1	--Ammeter, D.C.
306-0561	1	Bracket, Mounting - Solenoid	308-0007	1	--Switch, Toggle
150-1625	1	Governor Control Assembly (Consists Of Following Parts Marked *)	308-0198	1	--Switch, Push (Normally Open)
150-1587	1	*Spacer	308-0028	1	--Switch, Push - Start
150-1590	1	*Bracket, Hi-Speed Stop	338-1052	1	--Harness, Wiring
150-1591	1	*Bracket, Mounting	405-2279	1	**Support, Hood - R.H.
150-1624	1	*Pivot, Arm	405-2278	1	**Support, Hood - L.H.
150-1595	1	Bracket, Vari-Speed Governor	405-2276	1	**Panel, Top - Housing
193-0104	1	Water Temperature Sender (Cut-Off)	152-0180	1	**Cable, Speed Adjusting
309-0302	1	Thermostat, Water (Cut-Off)	503-0129	4	**Clamp, Hose (1-7/8")
154-1895	1	Manifold, Exhaust	503-0354	1	**Clamp, Hose (2-5/16 to 3-1/4")
154-1903	1	Manifold, Intake	503-0365	1	**Clamp, Hose (1-9/16 to 2-1/2")
149-1455	1	Line, Fuel - #4 Nozzle To Adapter	503-0400	1	**Hose, Radiator - Upper
193-0108	1	Sender, Oil Pressure Gauge	503-0204	1	**Hose, Radiator - Lower
502-0053	2	Elbow, Oil Filter Adapter	130-0343	1	**Fan, Radiator (4 Blade)
511-0101	1	Belt, Fan	130-1159	1	**Gaurd, Fan
191-1173	1	Bracket, Alternator Mounting	405-1079	1	**Panel, Front End Housing
191-1277	1	Bracket, Alternator Support	130-0569	1	**Radiacor
191-1278	1	Spacer, Alternator Support Bracket	130-0449	1	**Cap, Radiator
155-1500	1	Muffler	130-0397	2	**Bracket, Radiator
155-0985	1	Cap, Rain	130-0396	1	**Support, Radiator
405-2339	1	Housing Assembly (Consists Of Following Parts Marked **)	403-1280	1	**Chassis, Mounting
504-0003	1	**Petcock, Radiator			
370-1035	1	**Angle, Tank Mounting			
415-0336	1	**Tank, Fuel - 10 Gallon			
505-0056	1	**Plug, Fuel Tank Drain			
502-0055	2	**Elbow, Pipe - Fuel Fitting (90°)			
501-0007	1	**Line, Return - Fuel			
501-0009	1	**Line, Inlet - Fuel			
416-0049	1	**Cable, Battery (14-1/4" Lg)			
416-0014	1	**Cable, Battery (15" Lg)			
416-0133	1	**Cable, Battery (7-3/4" Lg)			
416-0495	1	**Frame, Battery Holddown			
520-0731	2	**Stud, Battery Holddown			
405-2282	2	**Spacer, Hood Support			
140-1470	1	**Hose, Air Cleaner			

SPECIAL PARTS LIST FOR MODEL RDJF-MF SPEC 3324A
 FOR STANDARD PARTS REFER TO CATALOG 974-0251 KEY NO. -
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. _____

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Low Oil Pressure Cut Off			416-0049	1	**Cable, Battery (14-1/4" Lg)
			416-0014	1	**Cable, Battery (15" Lg)
104-0464	1	Crankshaft	416-0133	1	**Cable, Battery (7-3/4" Lg)
505-0100	1	Nipple, Close - Oil Drain	416-0495	1	**Frame, Battery Holddown
504-0011	1	Valve, Oil Drain	520-0731	2	**Stud, Battery Holddown
505-0185	1	Nipple, Half-Oil Drain	405-2282	2	**Spacer, Hood Support
503-0197	1	Clamp, Hose - Oil Drain	140-1470	1	**Hose, Air Cleaner
503-0316	1	Hose, Oil Drain	140-0721	1	**Cleaner, Air
191-1190	1	Flange, Starter	140-0722	2	**Band, Air Cleaner
306-0561	1	Bracket, Mounting - Solenoid	140-0723	1	**Pre-Cleaner - Air Cleaner
150-1625	1	Governor Control Assembly (Consists Of Following Parts Marked *)	300-1514	1	**Panel, Control (Consists Of Following Parts Marked --)
150-1587	1	*Spacer	405-2277	1	--Panel, Rear Housing
150-1590	1	*Bracket, Hi-Speed Stop	193-0107	1	--Gauge, Oil Pressure
150-1591	1	*Bracket, Mounting	193-0106	1	--Gauge, Water Temperature
150-1624	1	*Pivot, Arm	302-0061	1	--Ammeter, D.C.
150-1595	1	Bracket, Vari-Speed Governor	308-0007	1	--Switch, Toggle
193-0104	1	Water Temperature Sender (Cut-Off)	308-0198	1	--Switch, Push (Normally Open)
309-0302	1	Thermostat, Water (Cut-Off)	308-0028	1	--Switch, Push - Start
154-1895	1	Manifold, Exhaust	338-1052	1	--Harness, Wiring
154-1903	1	Manifold, Intake	405-2279	1	**Support, Hood R.H.
149-1455	1	Line, Fuel-#4 Nozzle To Adapter	405-2278	1	**Support, Hood - L.H.
193-0108	1	Sender, Oil Pressure Gauge	405-2276	1	**Panel, Top - Housing
502-0053	2	Elbow, Oil Filter Adapter	152-0180	1	**Cable, Speed Adjusting
511-0101	1	Belt, Fan	503-0129	4	**Clamp, Hose (1-7/8")
191-1173	1	Bracket, Alternator Mounting	503-0354	1	**Clamp, Hose (2-5/16 to 3-1/4")
191-1277	1	Bracket, Alternator Support	503-0365	1	**Clamp, Hose (1-9/16 to 2-1/2")
191-1278	1	Spacer, Alternator Support Bracket	503-0400	1	**Hose, Radiator - Upper
155-1500	1	Muffler	503-0204	1	**Hose, Radiator - Lower
155-0985	1	Cap, Rain	130-0343	1	**Fan, Radiator (4 Blade)
190-0251	1	Housing, Clutch	130-1159	1	**Gaurd, Fan
805-0018	1	Bolt, Place (3/8-16 X 1" Lg)	405-1079	1	**Panel, Front End Housing
190-0253	1	Flange, Drive	130-0569	1	**Radiator
515-0006	1	Key, Woodruff (7/8 X 1/4" Lg)	130-0449	1	**Cap, Radiator
190-0325	1	Clutch - (Twin Disc - For Replacement Parts)	130-0397	2	**Bracket, Radiator
405-2339	1	Housing Assembly (Consists Of Following Parts Marked **)	130-0396	1	**Support, Radiator
504-0003	1	**Petcock, Radiator	403-1280	1	**Chassis, Mounting
370-1035	1	**Angle, Tank Mounting			
415-0336	1	**Tank, Fuel - 10 Gallon			
505-0056	1	**Plug, Fuel Tank Drain			
502-0055	2	**Elbow, Pipe - Fuel Fitting (90°)			
501-0007	1	**Line, Return - Fuel			
501-0009	1	**Line, Inlet - Fuel			

SPECIAL PARTS LIST FOR **MODEL** RDJF-MS **SPEC** 3375A
 FOR STANDARD PARTS REFER TO **CATALOG** 974-0251 **KEY NO.** -
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. _____

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Low Oil Pressure Cut Off			520-0731	2	**Stud, Battery Holddown
104-0947	1	Crankshaft (Special Spline)	405-2282	2	**Spacer, Hood Support
505-0100	1	Nipple, Close - Oil Drain	140-1470	1	**Hose, Air Cleaner
504-0011	1	Valve, Oil Drain	140-0721	1	**Cleaner, Air
505-0185	1	Nipple, Half-Oil Drain	140-0722	2	**Band, Air Cleaner
503-0197	1	Clamp, Hose - Oil Drain	140-0723	1	**Pre-Cleaner - Air Cleaner
503-0316	1	Hose, Oil Drain	300-1514	1	**Panel, Control (Consists Of Following Parts Marked --
191-1190	1	Flange, Starter	405-2277	1	--Panel, Rear Housing
306-0561	1	Bracket, Mounting - Solenoid	193-0107	1	--Gauge, Oil Pressure
150-1625	1	Governor Control Assembly (Consists Of Following Parts Marked *)	193-0106	1	--Gauge, Water Temperature
150-1587	1	*Spacer	302-0061	1	--Ammeter, D.C.
150-1590	1	*Bracket, Hi-Speed Stop	308-0007	1	--Switch, Toggle
150-1591	1	*Bracket, Mounting	308-0198	1	--Switch, Push (Normally Open)
150-1624	1	*Pivot, Arm	308-0028	1	--Switch, Push - Start
150-1595	1	Bracket, Vari-Speed Governor	338-1052	1	--Harness, Wiring
193-0104	1	Water Temperature Sender (Cut-Off)	405-2279	1	**Support, Hood - R.H.
309-0302	1	Thermostat, Water (Cut-Off)	405-2278	1	**Support, Hood - L.H.
154-1895	1	Manifold, Exhaust	405-2276	1	**Panel, Top - Housing
154-1903	1	Manifold, Intake	503-0129	4	**Clamp, Hose (1-7/8")
149-1455	1	Line, Fuel - #4 Nozzle To Adapter	503-0354	1	**Clamp, Hose (2-5/16 to 3-1/8)
193-0108	1	Sender, Oil Pressure Gauge	503-0365	1	**Clamp, Hose (1-9/16 to 2-1/8)
502-0053	2	Elbow, Oil Filter Adapter	503-0400	1	**Hose, Radiator - Upper
511-0101	1	Belt, Fan	503-0204	1	**Hose, Radiator - Lower
191-1173	1	Bracket, Alternator Mounting	130-0343	1	**Fan, Radiator (4 Blade)
191-1277	1	Bracket, Alternator Support	130-1159	1	**Guard, Fan
191-1278	1	Spacer, Alternator Support Bracket	405-1079	1	**Panel, Front End Housing
155-1500	1	Muffler	130-0569	1	**Radiator
155-0985	1	Cap, Rain	130-0449	1	**Cap, Radiator
405-2433	1	Housing Assembly (Consists Of Following Parts Marked **)	130-0397	2	**Bracket, Radiator
504-0003	1	**Petcock, Radiator	130-0396	1	**Support, Radiator
370-1035	1	**Angle, Tank Mounting	403-1280	1	**Chassis, Mounting
415-0336	1	**Tank, Fuel - 10 Gallon	121-0024	1	**Adapter, Hydraulic Pump
505-0056	1	**Plug, Fuel Tank Drain			
502-0055	2	**Elbow, Pipe - Fuel Fitting (90°)			
501-0007	1	**Line, Return - Fuel			
501-0009	1	**Line, Inlet - Fuel			
416-0049	1	**Cable, Battery (14-1/4" Lg)			
416-0014	1	**Cable, Battery (15" Lg)			
416-0133	1	**Cable, Battery (7-3/4" Lg)			
416-0495	1	**Frame, Battery Holddown			

SPECIAL PARTS LIST FOR **MODEL** RDJF-MS **SPEC** 3583A
 FOR STANDARD PARTS REFER TO **CATALOG** 974-0251 **KEY NO.** -
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. _____

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Low Oil Pressure Cut Off					
510-0046	10	Ball, Fly - Governor			
191-1190	1	Flange, Starter			
502-0053	1	Elbow, Oil Filter Adapter			
511-0101	1	Belt, Fan			
191-1173	1	Bracket, Alternator Mounting			
191-1278	1	Spacer, Alternator Support Bracket			
191-1277	1	Bracket, Alternator Support			
515-0003	1	Key, Crankshaft (3/8 X 3")			

SPECIAL PARTS LIST FOR MODEL RDJF-MF SPEC 3618A
 FOR STANDARD PARTS REFER TO CATALOG 974-0251 KEY NO.
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO.

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Low Oil Pressure Cut Off			520-0731	2	**Stud, Battery Holddown
104-0464	1	Crankshaft	405-2282	2	**Spacer, Hood Support
505-0100	1	Nipple, Close - Oil Drain	140-1470	1	**Hose, Air Cleaner
504-0011	1	Valve, Oil Drain	140-0721	1	**Cleaner, Air
505-0185	1	Nipple, Half-Oil Drain	140-0722	2	**Band, Air Cleaner
503-0197	1	Clamp, Hose - Oil Drain	140-0723	1	**Pre-Cleaner - Air Cleaner
503-0316	1	Hose, Oil Drain	300-1514	1	**Panel, Control (Consists Of Following Parts Marked -
191-1190	1	Flange, Starter	405-2277	1	--Panel, Rear Housing
306-0561	1	Bracket, Mounting - Solenoid	193-0107	1	--Gauge, Oil Pressure
150-1625	1	Governor Control Assembly (Consists Of Following Parts Marked *)	193-0106	1	--Gauge, Water Temperature
150-1587	1	*Spacer	302-0061	1	--Ammeter, D.C.
150-1590	1	*Bracket, Hi-Speed Stop	308-0007	1	--Switch, Toggle
150-1591	1	*Bracket, Mounting	308-0198	1	--Switch, Push (Normally Ope.
150-1624	1	*Pivot, Arm	308-0028	1	--Switch, Push - Start
150-1595	1	Bracket, Vari-Speed Governor	338-1052	1	--Harness, Wiring
193-0104	1	Water Temperature Sender (Cut-Off)	405-2279	1	**Support, Hood - R.H.
309-0302	1	Thermostat, Water (Cut-Off)	405-2278	1	**Support, Hood - L.H.
154-1895	1	Manifold, Exhaust	405-2276	1	**Panel, Top - Housing
154-1903	1	Manifold, Intake	152-0180	1	**Cable, Speed Adjusting
149-1455	1	Line, Fuel - #4 Nozzle To Adapter	503-0129	4	**Clamp, Hose (1-7/8")
193-0108	1	Sender, Oil Pressure Gauge	503-0354	1	**Clamp, Hose (2-5/16 to 3-1
502-0053	2	Elbow, Oil Filter Adapter	503-0365	1	**Clamp, Hose (1-9/16 to 2-1
511-0101	1	Belt, Fan	503-0400	1	**Hose, Radiator - Upper
191-1173	1	Bracket, Alternator Mounting	503-0204	1	**Hose, Radiator - Lower
191-1277	1	Bracket, Alternator Support	130-0343	1	**Fan, Radiator (4 Blade)
191-1278	1	Spacer, Alternator Support Bracket	130-1159	1	**Guard, Fan
190-0251	1	Housing, Clutch	405-1079	1	**Panel, Front End Housing
805-0018	1	Bolt, Place (3/8-16 X 1" Lg)	130-0569	1	**Radiator
190-0253	1	Flange, Drive	130-0449	1	**Cap, Radiator
515-0006	1	Key, Woodruff (7/8 X 1/4" Lg)	130-0397	2	**Bracket, Radiator
405-2339	1	Housing Assembly (Consists Of Following Parts Marked **)	130-0396	1	**Support, Radiator
504-0003	1	**Petcock, Radiator	403-1280	1	**Chassis, Mounting
370-1035	1	**Angle, Tank Mounting			
415-0336	1	**Tank, Fuel - 10 Gallon			
505-0056	1	**Plug, Fuel Tank Drain			
502-0055	2	**Elbow, Pipe - Fuel Fitting (90°)			
501-0007	1	**Line, Return - Fuel			
501-0009	1	**Line, Inlet - Fuel			
416-0049	1	**Cable, Battery (14-1/4" Lg)			
416-0014	1	**Cable, Battery (15" Lg)			
416-0133	1	**Cable, Battery (7-3/4" Lg)			
416-0495	1	**Frame, Battery Holddown			

SPECIAL PARTS LIST FOR **MODEL** RDJF-MS **SPEC** 3653A
 FOR STANDARD PARTS REFER TO **CATALOG** 974-0251 **KEY NO.** -
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. _____

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Low Oil Pressure Cut Off					
191-1190	1	Flange, Starter			
309-0302	1	Thermostat, Water Cut Off			
416-0096	2	Harness Support (Clamp)			
511-0101	1	Belt, Fan			
191-1173	1	Bracket, Alternator Mounting			
191-1278	1	Spacer, Alternator Support Bracket			
191-1277	1	Bracket, Alternator Support			
515-0003	1	Key, Crankshaft (3/8 X 3")			

SPECIAL PARTS LIST FOR **MODEL** RDJF-MS **SPEC** 3773A
 FOR STANDARD PARTS REFER TO **CATALOG** 974-0251 **KEY NO.** -
 (PARTS CATALOG ALSO CONTAINS COMPONENTS FOR MAJOR OPTIONAL FEATURES LISTED BELOW)

WIRING DIAGRAM NO. _____

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Low Oil Pressure Cut Off					
191-1190	1	Flange, Starter			
193-0108	1	Sender, Oil Pressure Gauge			
502-0053	2	Elbow, Oil Filter Adapter			
511-0101	1	Belt, Fan			
191-1173	1	Bracket, Alternator Mounting			
191-1277	1	Bracket, Alternator Support			
191-1278	1	Spacer, Alternator Support Bracket			
154-1378	1	Manifold, Intake			
515-0003	1	Key, Crankshaft (3/8 X 3")			