

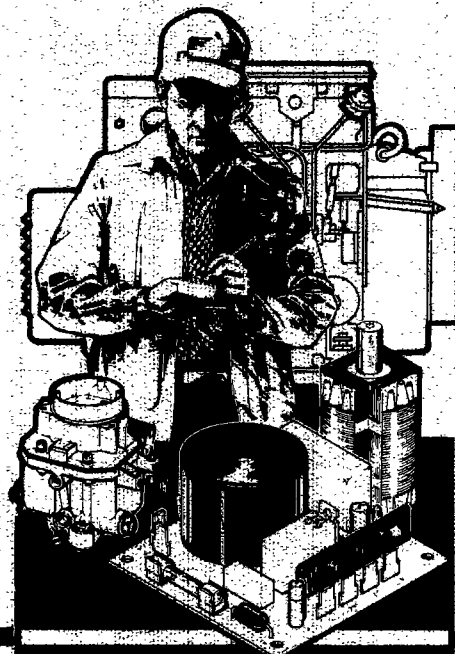
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Onan

Parts Manual

DL3

GenSet



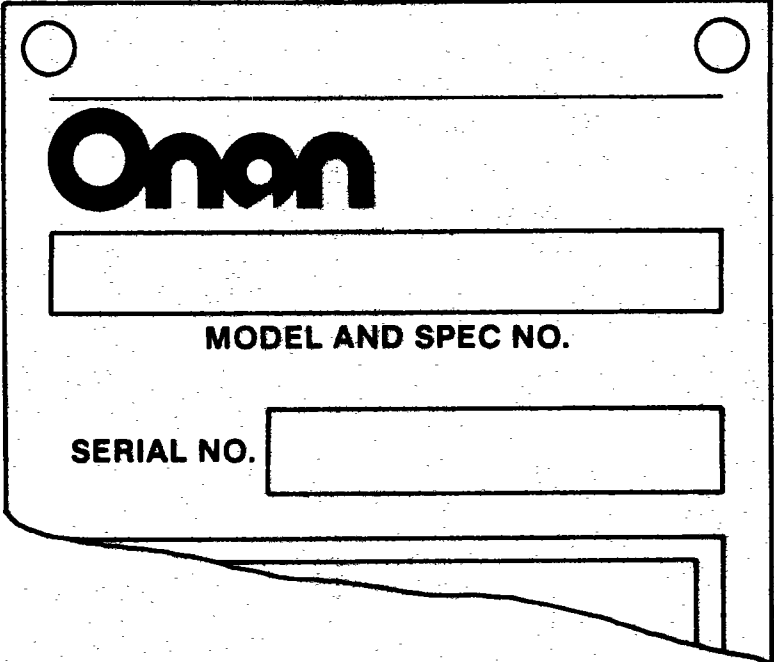
Onan Service Parts

934-0233
6-88 (SPEC A)
Replaces 6-87 (SPEC A)
Printed in U.S.A.

General Information

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, always give the MODEL, SPEC NO. and SERIAL NO. from the Onan nameplate.

A rectangular form with rounded corners and two circular punch holes at the top. It features the Onan logo at the top left. Below the logo is a large rectangular box for the model and specification number. Below that is a smaller rectangular box for the serial number, preceded by the text "SERIAL NO.". The bottom right corner of the form is folded over.

Onan

MODEL AND SPEC NO.

SERIAL NO.

M-1149

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

Index

Adapter, Generator 22 Adapter, Oil Filter 15 Baseplate 31 Belt, Coolant Pump 21 Block, Cylinder 4 Block, Terminal 36 Bracket, Mounting - AC and DC Control 36 Bracket, Lifting 18 Breaker, Circuit - AC 36 Breaker, Circuit - DC 34 Bridge, Rectifier 36 Camshaft 4 Cap, Oil Fill - Gearcase 16 Cap, Oil Fill - Rocker Cover 16 Cap, Pressure - Exhaust Manifold 18 Cap, Pressure - Radiator 30 Cleaner, Air 38 Connector, Coolant Outlet 20 Control, AC - Generator Set 36 Control, DC - Generator Set 34 Cover, Rocker 16 Crankshaft 4 Cushion, Mounting - Generator Set 31 Dampener, Vibration - AC Control 36 Element, Air Cleaner 38 Fan, Cooling 38 Filter, Fuel 13 Filter, Oil 15 Flange, Exhaust 20 Flywheel 23 Gear, Injection Pump 8 Gearcase 8 Generator 32 Guard, Belt 29 Harness, Wiring - DC Control Box 34 Harness, Wiring - Engine to Control 34 Harness, Wiring - Remote 34 Harness, Wiring - Starter Disconnect 36 Head, Cylinder 6 Hose, Coolant - Exhaust Manifold End Cap 18 Hose, Radiator 30 Indicator, Oil Level 14 Injector, Fuel 10 Isolator, Vibration - DC Control 36	Kit, Gasket - Heat Exchanger 18 Kit, Gasket - Lower End 4,39 Kit, Gasket - Valve Grind 6,39 Kit, Repair - Coolant Pump 21 Kit, Repair - Fuel Transfer Pump 13 Line, Injection 10 Manifold, Exhaust 18 Manifold, Intake 17 Monitor, Engine 34 Mount, Engine - Front 28 Muffler 28 Paint - Touch Up 38 Pan, Oil 14 Pickup, Oil 14 Piston 4 Plug, Glow 27 Pulley, Coolant Pump 21 Pulley, Crankshaft 21 Pulley, Idler 24 Pump, Coolant 21 Pump, Fuel Transfer 13 Pump, Injection 10 Pump, Injection - Components 12 Pump, Oil 8 Radiator 30 Rectifier - Stop 34 Relay - DC 34 Sealant, Thread 38 Sender, Oil Pressure 4 Sender, Water Temperature 20 Standoff, Insulator - AC Control 36 Starter 25 Starter - Components 26 Strap, Ground - Control 36 Strap, Ground - Engine 31 Suppressor, Voltage 36 Switch, Oil Pressure 4 Switch, Rocker - Start/Stop/Preheat 34 Switch, Thermostat 21 Thermostat 21 Transformer 36 Tube, Oil Fill - Gearcase 16
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Introduction

This parts manual applies to the standard generator sets as listed below. Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding to the same reference number in the parts list. Unless otherwise mentioned in the description, parts are interchangeable between models. All references in the parts description that pertain to specification letter differences for replacement parts are for the model listed on the identification label affixed to the generator set control. Throughout this manual left (non-accessory) and right (accessory) sides are determined by facing the rear or generator end of the set.

Set Data Table

MODEL IDENTIFICATION	RATING	MODEL IDENTIFICATION	RATING
15.0 DL3-*/#@	15,000 WATTS		

Electrical Data Table

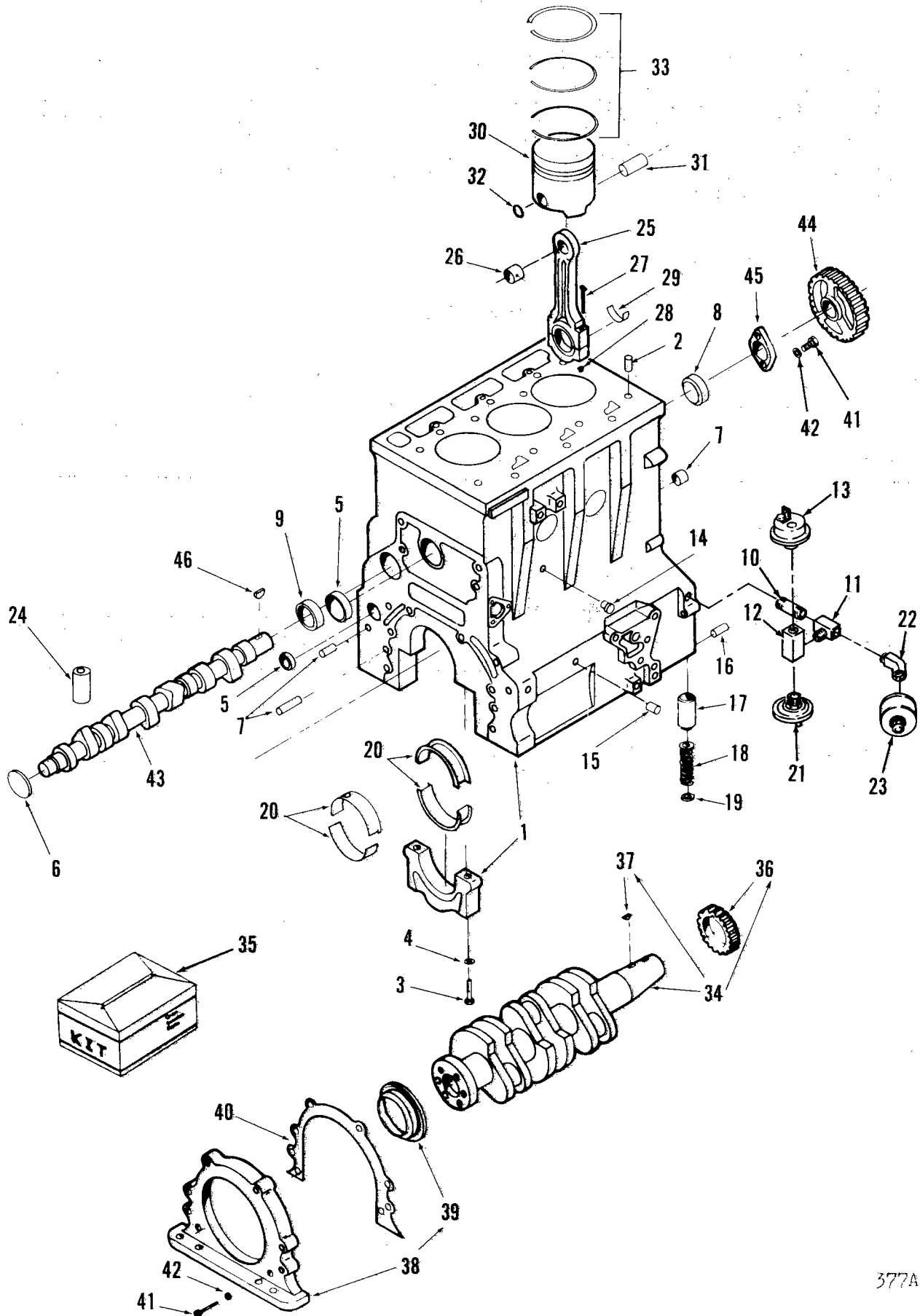
*VOLTAGE CODES	VOLTS	HERTZ	WIRE	PHASE	NOTES
J	120/240	60	4	1	

* - Voltage code follows model designations.

- Specification number: Number 1 is standard, all others indicate variations.

@ - Specification letter: Letter advances (A to B, B to C, etc.) with major manufacturing changes.

Cylinder Block



377A

Cylinder Block

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	110-3322	1	Block Assembly, Cylinder (Includes Parts Marked *)	22	502-0053	1	Elbow, Street - 45° (1/8")
2	110-2978	2	*Pin, Cylinder Head Alignment	23	193-0244	1	Sender, Oil Pressure (E1)
3	720-1801	8	*Screw, Cap - Hex Head - Special	24	115-0275	6	Tappet
4	740-1801	8	*Washer, Flat - Special	25	114-0313	3	Rod, Connecting (Includes Finished Bearing, Bolts and Nuts)
5			Plug, Cup	26	114-0316	3	Bushing, Connecting Rod (Semi-Finished)
	517-0141	3	* 50.8 MM Stainless Steel	27	114-0315	6	Bolt, Connecting Rod
	517-0144	2	* 12.7 MM Steel	28	114-0318	6	Nut, Connecting Rod
	517-0146	1	* 31.75 MM Stainless Steel	29			Bearing, Connecting Rod (Half)
	517-0250	1	54.37 MM Stainless Steel (Oversize)		114-0319	6	Standard
6	517-0140	1	*Plug, Welch (57.15 MM) - Steel		114-0319-01	6	0.25 MM Undersize
7			Pin, Alignment		114-0319-02	6	0.50 MM Undersize
	775-0074	2	* 8 MM x 20 MM		114-0319-03	6	0.75 MM Undersize
	775-0089	2	* 10 MM x 20 MM	30			Piston and Pin Kit (Includes Retaining Rings)
	775-0078	2	* 8 MM x 40 MM		112-0201	3	Standard
8	101-0511	1	*Bearing, Camshaft - Front		112-0202	3	0.25 MM Oversize
9	101-0471	2	*Bearing, Camshaft - Intermediate and Rear		112-0203	3	0.50 MM Oversize
10	505-0104	1	Nipple, Pipe (1/8" x 1-1/2")		112-0204	3	0.75 MM Oversize
11	502-0057	1	Tee - Male Branch		112-0205	3	1.0 MM Oversize
12	502-0079	1	Tee - Union	31	112-0165	3	Pin, Piston
13	309-0169	1	Switch, Oil Pressure (Closes at 14 lbs. Descending) (S1)	32	518-0409	6	Ring, Retaining - Piston Pin
14	504-0028	1	*Valve, Coolant Drain	33			Ring Kit, Piston
15	505-0274	3	*Plug, Pipe (1/8")		113-0233	3	Standard
16	516-2102	1	*Pin, Regulator Valve Spring		113-0234	3	0.25 MM Oversize
17	123-1514	1	*Piston, Regulator Valve		113-0235	3	0.50 MM Oversize
18	123-1511	1	*Spring, Regulator Valve		113-0236	3	0.75 MM Oversize
19	740-1004	1	*Washer, Flat (M6)		113-0237	3	1.0 MM Oversize
20			Bearing Kit, Main (Includes Upper and Lower Bearing Half)	34	104-1585	1	Crankshaft Assembly (Includes Gear and Key)
			Front	35	168-0176	1	Kit, Gasket - Lower End
	101-0689	1	Standard	36	104-1138	1	Gear, Crankshaft
	101-0690	1	0.25 MM Undersize	37	515-0245	1	Key - Crankshaft Gear
	101-0691	1	0.50 MM Undersize	38	101-0713	1	Plate, Rear Seal (Includes Seal)
	101-0692	1	0.75 MM Undersize	39	509-0203	1	Seal, Oil - Rear (Includes Wear Sleeve)
			Intermediate	40	101-0600	1	Gasket, Rear Seal Plate
	101-0685	2	Standard	41	718-1037	8	Screw, Cap - Hex Head (M8 x 25 MM)
	101-0686	2	0.25 MM Undersize	42	740-1006	8	Washer, Flat (M8)
	101-0687	2	0.50 MM Undersize	43	105-0566	1	Camshaft
	101-0688	2	0.75 MM Undersize	44	105-0515	1	Gear, Camshaft
			Rear	45	105-0534	1	Retainer, Camshaft
	101-0677	1	Standard	46	515-0245	1	Key - Camshaft Gear
	101-0678	1	0.25 MM Undersize				
	101-0679	1	0.50 MM Undersize				
	101-0680	1	0.75 MM Undersize				
21	309-0104	1	Switch, Oil Pressure (Closes at 5 lbs. Increasing) (S1)				

* - Parts Included in 110-3322 Cylinder Block Assembly

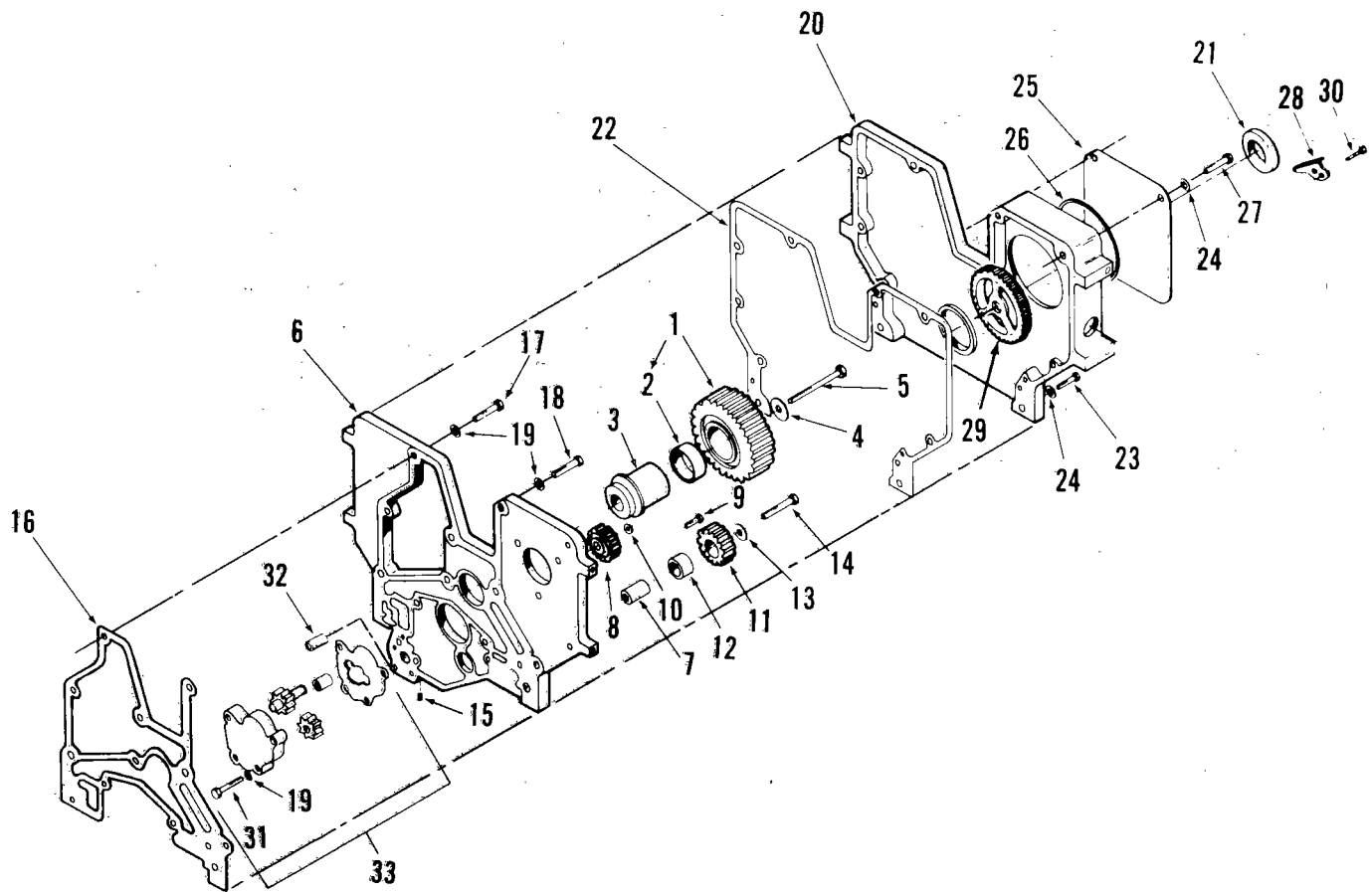
Cylinder Head



Cylinder Head

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	110-3325	1	Head Assembly, Cylinder (Includes Guides, Seats, Cup Plugs, Breather Tubes, Valves, Springs, Retainers, Water Pump Adapter, Spacers, Collets, Wear Plates, Sleeves and Seals)	8	110-3300	6	Spring, Valve
				9	110-3015	6	Retainer, Valve Spring
2	110-3476	1	Head, Cylinder (Includes Seats, Cup Plugs, Sleeves, Water Pump Adapter, Spacers, and Guides)	10	110-2752	12	Collet, Valve Lock
3			Guide, Valve (Semi-Finished)	11	110-2991	3	Plate, Valve Spring Wear (Exhaust)
	110-3495	3	Intake (Standard)	12	110-3432	3	Spacer, Valve Spring (Intake)
	110-3496	3	Exhaust (Standard)	13	110-3228	6	Seal Assembly, Valve Stem
4			Seat, Valve	14	110-2979	3	Sleeve, Sealing
			Intake (Not Original Equipment)	16	720-1802	14	Screw, Cap - Hex Head (M12 x 130 MM)
	110-3226-01	3	Standard	17	740-1801	11	Washer, Flat (M12)
	110-3226-02	3	.25 MM Oversize	18	110-3220	1	Gasket, Cylinder Head
	110-3226-03	3	.50 MM Oversize	19			Stud, Rocker Arm
			Exhaust		115-0204	3	Intake (Short)
	110-2781-01	3	Standard		115-0270	3	Exhaust (Long)
	110-2781-02	3	.25 MM Oversize	20	115-0310	1	Guide, Push Rod
	110-2781-03	3	.50 MM Oversize	21	508-0228	1	Grommet
5			Plug, Cup	22	115-0253	6	Pushrod
	517-0142	5	38.1 MM	23	120-1044	1	Tube, Rocker Arm Oil
	517-0146	4	31.75 MM	24	502-0003	1	Connector, Inverted Male
	517-0162	3	19.05 MM	25	115-0316	6	Arm, Rocker
6	110-3137	3	Plug, Hot (Swirl)	26	115-0202	6	Ball, Rocker Arm
7			Valve	27	526-2119	5	Washer, Flat
	110-3066	3	Intake	28	115-0315	6	Locknut, Rocker Arm
	110-2840	3	Exhaust	29			Adapter, Water Pump
					110-3045	1	Standard
					110-3490	1	0.5 MM Oversize
				30	123-1536	2	Tube, Breather
				33	110-3245	6	Cap, Valve Stem
				34	517-0167	1	Plug, Cup (22.6 MM)
				35	168-0177	1	Kit, Gasket - Valve Grind

Gearcase

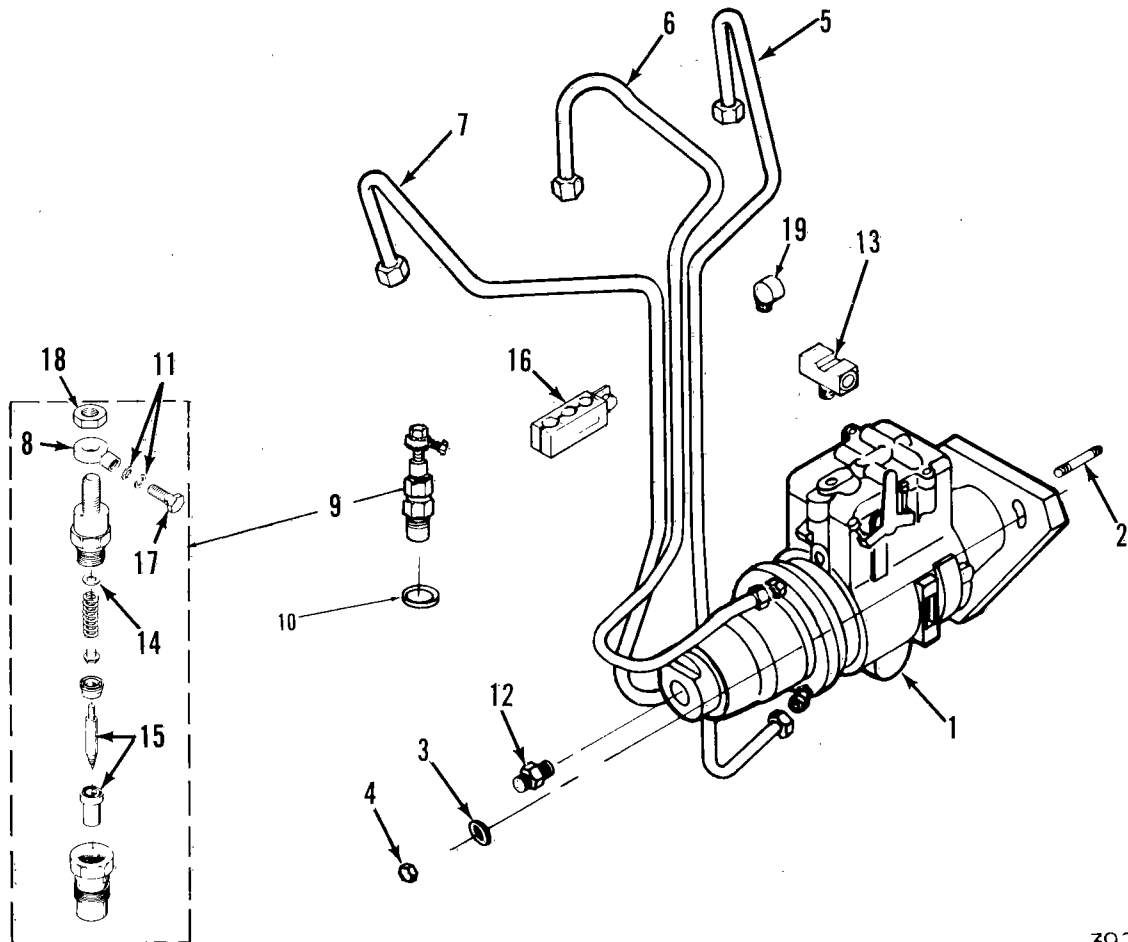


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Gearcase

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	105-0513	1	Gear, Idler (Includes Finished Bearing)	19	740-1006	7	Washer, Flat (M8)
2	105-0519	1	Bearing, Idler Gear (Semi-Finished)	20	103-0746	1	Gearcase (Includes Oil Seal and Oil Fill Tube)
3	105-0508	1	Shaft, Idler Gear	21	509-0191	1	Seal, Oil (Includes Wear Sleeve)
4	526-2127	1	Washer, Flat (M10)	22	103-0731	1	Gasket, Gearcase
5	718-1064	1	Screw, Cap - Hex Head (M10 x 75 MM)	23			Screw, Cap - Hex Head
6	103-0716	1	Backplate, Gearcase		718-1046	2	M8 x 70 MM
7	120-0983	1	Shaft, Oil Pump Idler Gear		718-1043	5	M8 x 55 MM
8	120-0885	1	Gear, Oil Pump Drive	24			Washer, Flat
9	718-1035	1	Screw, Cap - Hex Head (M8 x 16 MM)		740-1006	4	M8
10	526-2106	1	Washer, Flat (M8)		740-1010	6	M12
11	120-1063	1	Gear, Oil Pump Idler (Includes Finished Bearing)	25	103-0735	1	Cover, Injection Pump Gear
12	120-1041	1	Bearing, Oil Pump Idler Gear (Semi-Finished)	26	509-0263	1	Seal, O-Ring
13	526-2107	1	Washer, Flat (M8)	27			Screw, Cap - Hex Head
14	718-1035	1	Screw, Cap - Hex Head (M8 x 16 MM)		718-1048	1	M8 x 80 MM
15	725-1802	1	Screw, Hex Socket Set (M16 x 16 MM)		718-1044	2	M8 x 60 MM
16	103-0733	1	Gasket, Gearcase Backplate		718-1036	1	M8 x 20 MM
17			Screw, Cap - Hex Head	28	103-0750	1	Plate, Timing
	718-1037	1	M8 x 25 MM	29	147-0427	1	Gear, Injection Pump
	718-1039	2	M8 x 35 MM	30	815-0578	2	Screw, Cap - Hex Head (M6 x 12.5 MM)
18	725-1801	2	Screw, Low Socket Head Cap (M8 x 16 MM)	31	718-1041	2	Screw, Cap - Hex Head (M8 x 45 MM)
				32	120-0979	1	Bearing, Oil Pump Drive Shaft
				33	120-1015	1	Pump Kit, Oil (Includes Drive Shaft Bearing)

Fuel Injection

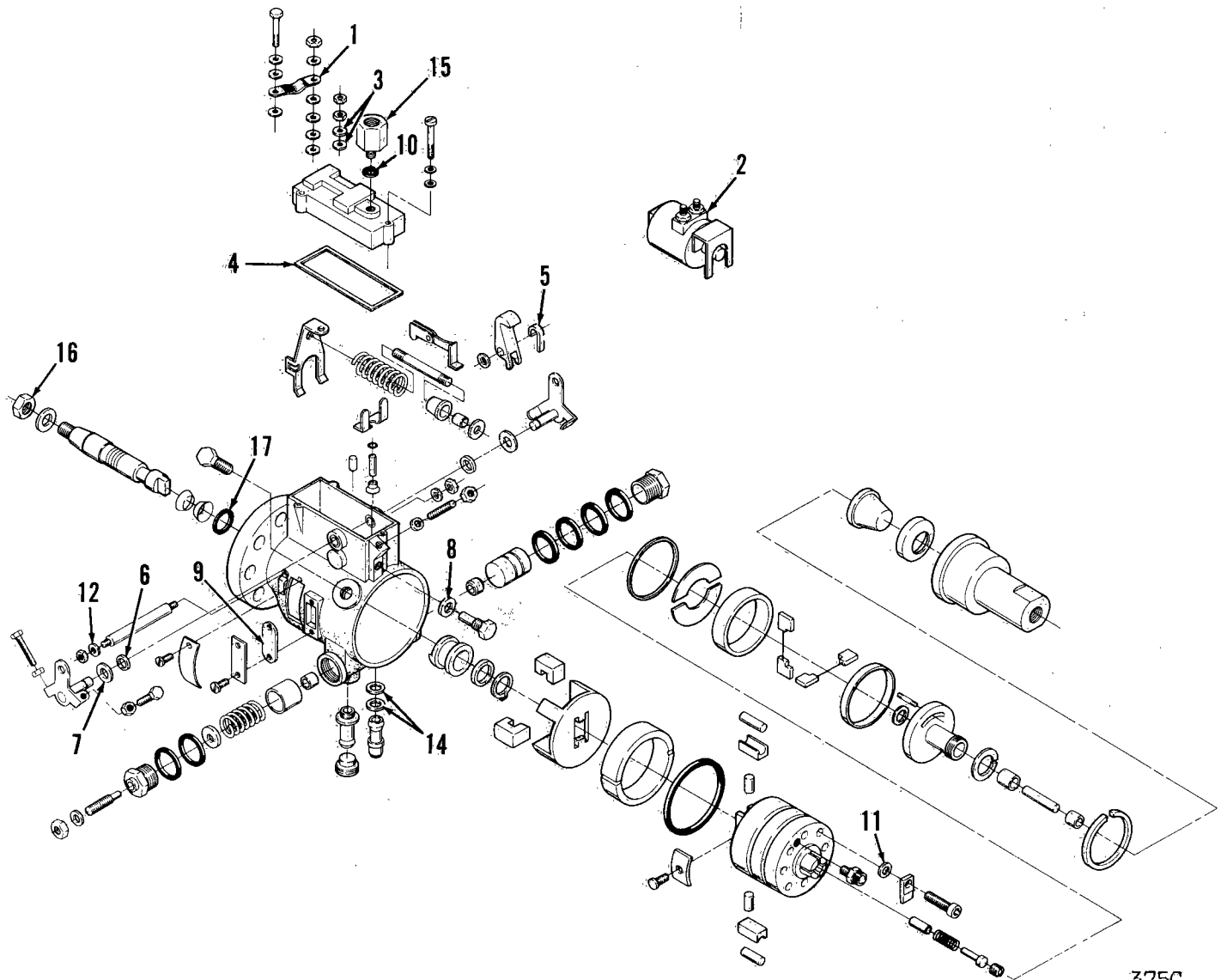


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Fuel Injection

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	147-0461-03	1	Pump, Fuel Injection (See Separate Page For Components)	14			Washer, Injection Nozzle Shim
2	520-2403	3	Stud, Injection Pump (M8)		147-0617	As Req.	0.80 MM
3	526-2106	3	Washer, Flat (M8)		147-0618	As Req.	0.84 MM
4	750-1006	3	Nut, Hex (M8)		147-0619	As Req.	0.88 MM
5	147-0708	1	Line, Fuel Injection (No. 1)		147-0620	As Req.	0.92 MM
6	147-0709	1	Line, Fuel Injection (No. 2)		147-0621	As Req.	0.96 MM
7	147-0710	1	Line, Fuel Injection (No. 3)		147-0622	As Req.	1.00 MM
8	147-0766	3	Banjo		147-0623	As Req.	1.04 MM
9	147-0700	3	Injector, Fuel (Includes Seal)		147-0624	As Req.	1.08 MM
10	147-0436	3	Seal, Injector		147-0625	As Req.	1.12 MM
11	147-0767	6	Washer		147-0626	As Req.	1.16 MM
12	502-0733	1	Connector		147-0627	As Req.	1.20 MM
13	502-0057	1	Tee, Pipe - Special		147-0628	As Req.	1.24 MM
					147-0629	As Req.	1.28 MM
					147-0630	As Req.	1.32 MM
					147-0631	As Req.	1.36 MM
					147-0632	As Req.	1.40 MM
					147-0633	As Req.	1.44 MM
					147-0634	As Req.	1.48 MM
					147-0635	As Req.	1.52 MM
					147-0636	As Req.	1.56 MM
					147-0637	As Req.	1.60 MM
					147-0638	As Req.	1.64 MM
					147-0639	As Req.	1.68 MM
					147-0640	As Req.	1.72 MM
					147-0641	As Req.	1.76 MM
					147-0642	As Req.	1.80 MM
					147-0643	As Req.	1.84 MM
					147-0644	As Req.	1.88 MM
					147-0645	As Req.	1.92 MM
					147-0646	As Req.	1.96 MM
				15	147-0647	3	Tip, Nozzle
				16	147-0707	1	Clamp, Fuel Line
				17	147-0765	3	Screw, Hollow
				18	147-0780	3	Nut, Hex (M19)
				19	502-0020	1	Elbow, Street (1/8")

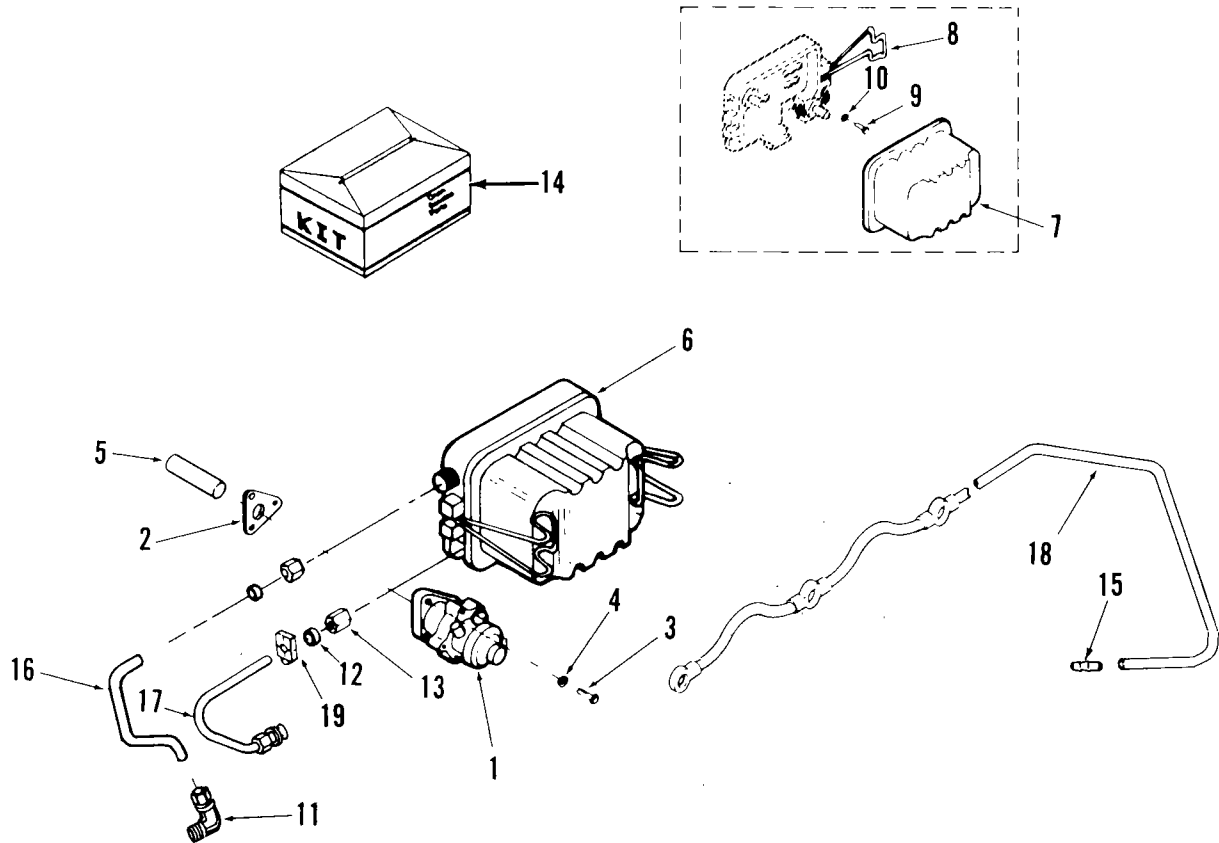
Fuel Injection Pump Components



375C

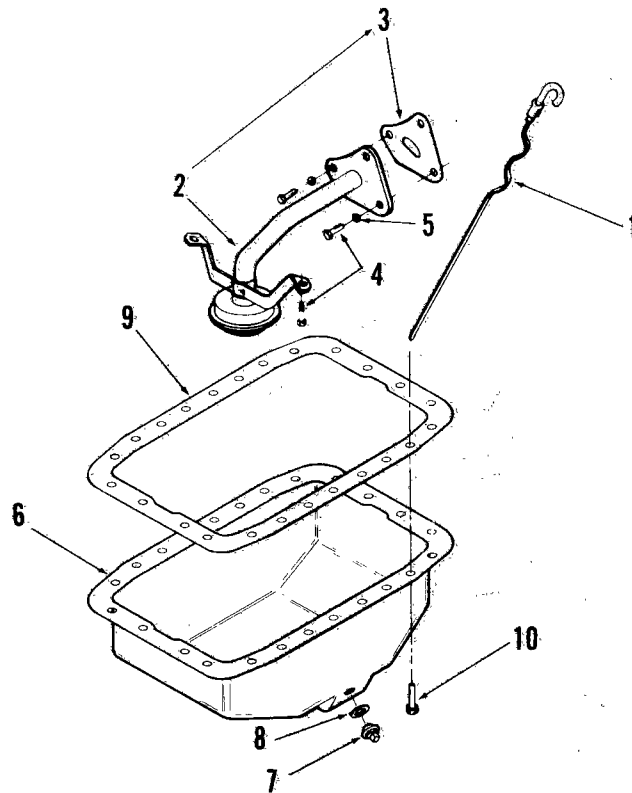
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	147-0461-03	1	Pump, Fuel Injection (Complete)	10	147-0584	1	Seal, Return Line Connector
1	147-0592	1	Strap, Terminal Grounding	11	147-0583	1	Seal, Locking Plate
2	147-0593	1	Solenoid and Frame Kit	12	147-0582	2	Seal, Pivot Shaft
3	147-0591	2	Washer, Terminal Insulating	14	147-0580	1	Seal, Head Locating Screw
4	147-0590	1	Gasket, Governor Cover	15	147-0579	1	Connector, Return Line
5	147-0589	1	Clip, Shaft Retaining	16	147-0578	1	Nut, Drive Shaft
6	147-0588	2	Seal, Throttle Shaft	17	509-0265	1	Seal, Pilot Tube
7	147-0587	2	Washer, Throttle Shaft Seal	Note: For Component parts not listed contact manufacturer shown on nameplate.			
8	147-0586	1	Washer, Guide Stud				
9	147-0585	1	Gasket, Timing Line Cover				

Fuel System



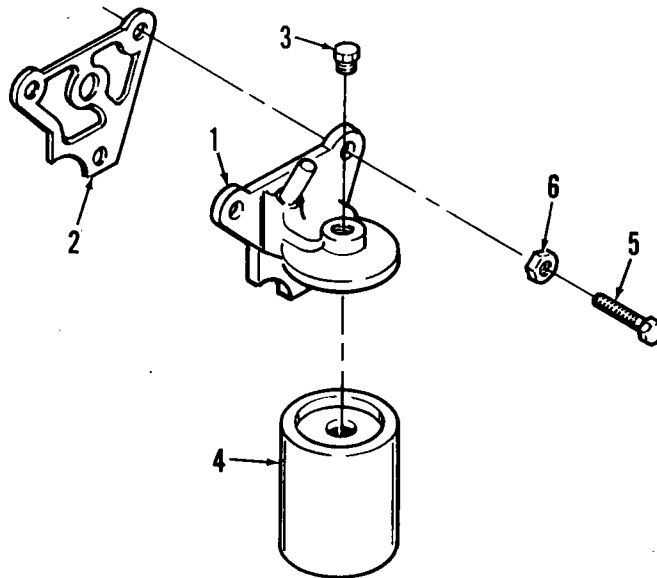
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-2067	1	Pump Kit, Fuel Transfer (Includes Mounting Gasket)	10	740-1008	2	Washer, Flat (M10)
2	149-1728	1	Gasket, Fuel Transfer Pump	11	502-0774	1	Elbow, Fuel Pump Outlet (Includes Sleeve and Nut)
3	718-1021	3	Screw, Cap - Hex Head (M6 x 20 MM)	12	502-0768	2	Sleeve, Flareless Line
4	740-1004	3	Washer, Flat (M6)	13	502-0769	2	Nut, Flareless Line
5	149-1732	1	Pushrod, Fuel Transfer Pump	14	149-2069	1	Repair Package - Fuel Pump
6	149-1759	1	Filter Assembly (Includes Filter, Base, Clips and Grommet)	15	502-0830	1	Connector (Includes Sleeve and Nut)
7	149-1758	1	Filter, Fuel	16	149-1772	1	Line, Fuel
8	149-1771	2	Clip, Fuel Filter	17	149-1889	1	Line, Fuel
9	725-1074	2	Screw, Cap - Hex Head (M10 x 20 MM)	18	147-0713	1	Tube, Nozzle Leak Off
				19	149-1800	1	Grommet, Fuel Line

Oil Pan



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	123-1711-04	1	Indicator, Oil Level	6	102-1260	1	Pan, Oil (Includes Plug and Gasket)
2	120-1111	1	Pickup Kit, Oil (Includes Gasket)	7	102-1146	1	Plug, Oil Drain
3	120-0917	1	Gasket, Oil Pickup	8	102-1147	1	Gasket, Oil Drain
4			Screw, Cap - Hex Head	9	102-1128	1	Gasket, Oil Pan
	718-1044	2	M8 x 60 MM	10	815-0547	24	Screw, Cap - Hex Head (Includes Washer)
	718-1036	2	M8 x 20 MM				M8 x 20 MM
5	740-1006	4	Washer, Flat (M8)				

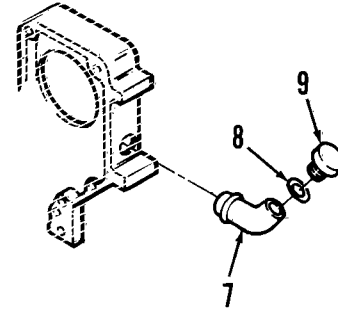
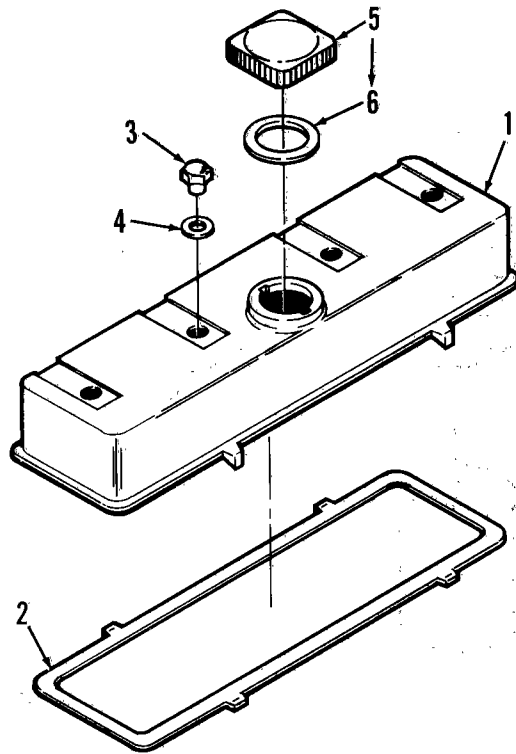
Oil Filter



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REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122-0632	1	Adapter Kit, Oil Filter (Includes Gasket)	4	122-0602	1	Filter, Oil
2	122-0635	1	Gasket	5	718-1037	3	Screw, Cap - Hex Head (M8 x 25 MM)
3	505-0274	1	Plug, Hex (1/8")	6	526-2108	3	Washer, Flat (M8)

Oil Fill

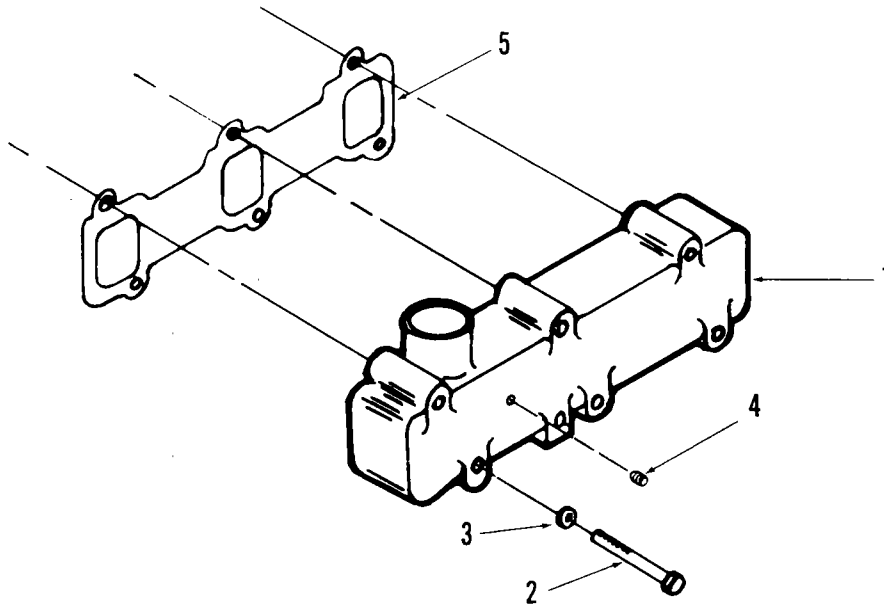


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REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	115-0344	1	Cover, Rocker
2	115-0309	1	Gasket, Rocker Cover
3	115-0320	3	Capnut, Rocker Cover
4	115-0232	3	Gasket, Capnut
5	123-1605	1	Cap, Oil Fill (Includes Gasket)

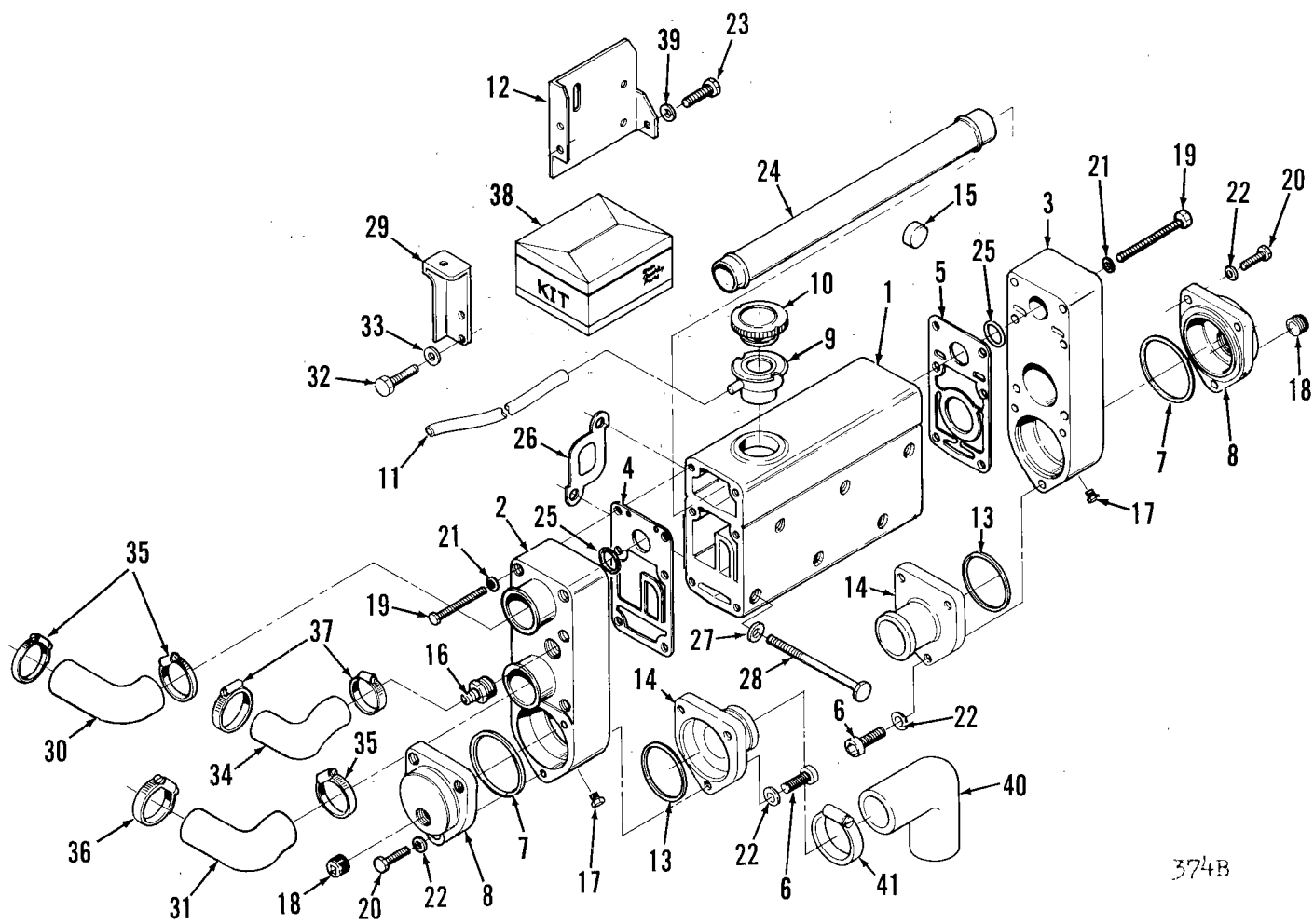
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	123-1518	1	Gasket, Oil Fill Cap
7	123-1558	1	Tube, Oil Fill
8	509-0142	1	Seal, O-Ring
9	123-1647	1	Cap, Oil Fill

Intake Manifold



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2370	1	Manifold, Intake	3	740-1006	6	Washer, Flat (M8)
2	718-1801	6	Screw, Cap - Hex Head (M8 x 85 MM)	4	505-0274	1	Plug, Pipe
				5	154-2385	1	Gasket, Manifold

Exhaust Manifold

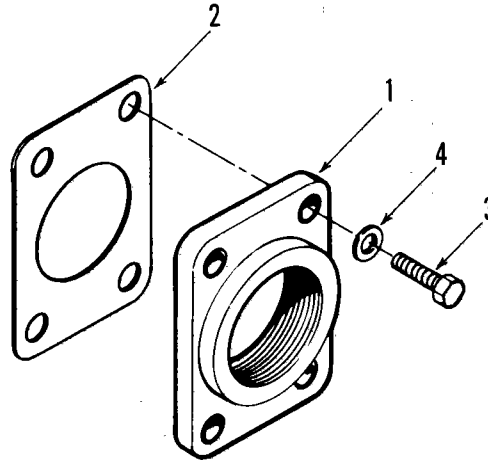


374B

Exhaust Manifold

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2453	1	Manifold, Exhaust	22	740-1004	12	Washer, Flat (M6)
2	154-2347-01	1	Cap, Manifold End (Front)	23	718-1074	1	Screw, Cap - Hex Head (M10 x 30 MM)
3	154-2348-01	1	Cap, Manifold End (Rear)	24	154-2482	1	Tube, Coolant Flow
4	154-2353	1	Gasket, Manifold Front Cap	25	509-0190	2	Seal, O-Ring - Coolant Flow Tube
5	154-2352	1	Gasket, Manifold Rear Cap	26	154-2162	3	Gasket, Exhaust Manifold
6	725-1029	6	Screw, Cap - Socket Head (M6 x 25 MM)	27	740-1802	6	Washer, Flat (M8)
7	509-0179	2	Seal, O-Ring - Heat Exchanger Cover	28	806-2001	6	Screw, Cap - Counter Bore
8	154-2350	2	Cover, Heat Exchanger	29	403-2140	1	Bracket, Lifting
9	130-2304	1	Neck, Filler	30	503-1123	1	Hose, Coolant - Upper
10	130-2248	1	Cap, Pressure	31	503-1165	1	Hose, Coolant - Lower
11	503-1262	1	Hose, Overflow (30")	32	718-1054	2	Screw, Cap - Hex Head (M10 x 25 MM)
12	403-2128	1	Bracket, Lifting	33	740-1008	2	Washer, Flat (M10)
13	130-2147	2	Gasket, Cover	34	503-1124	1	Hose, Coolant - Manifold
14	154-2639	2	Cover, Heat Exchanger	35	503-1141	3	Clamp, Hose (#32)
15	517-0142	2	Plug, Cup	36	503-1140	1	Clamp, Hose (#28)
16	502-0836	1	Adapter, Pipe to Hose	37	503-1137	2	Clamp, Hose (#16)
17	502-0153	2	Plug, Pipe (1/4")	38	168-0172	1	Kit, Gasket - Heat Exchanger
18	505-0253	2	Plug, Pipe - Countersunk (3/4")	39	740-1010	1	Washer, Flat (M12)
19	720-1044	8	Screw, Cap - Hex Head (M8 x 60 MM)	40	503-1557	1	Elbow, Coolant Hose - Sets Without Mounted Radiator
20	718-1022	6	Screw, Cap - Hex Head (M6 x 25 MM)	41	503-0365	1	Clamp, Hose - Sets Without Mounted Radiator
21	740-1006	8	Washer, Flat (M8)				

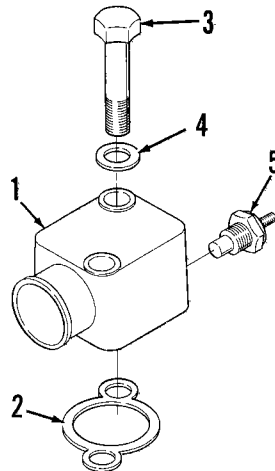
Exhaust Flange



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2546	1	Flange, Exhaust
2	154-2373	1	Gasket

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	720-1047	4	Screw, Cap - Hex Head (M8 x 75 MM)
4	740-1006	4	Washer, Flat (M8)

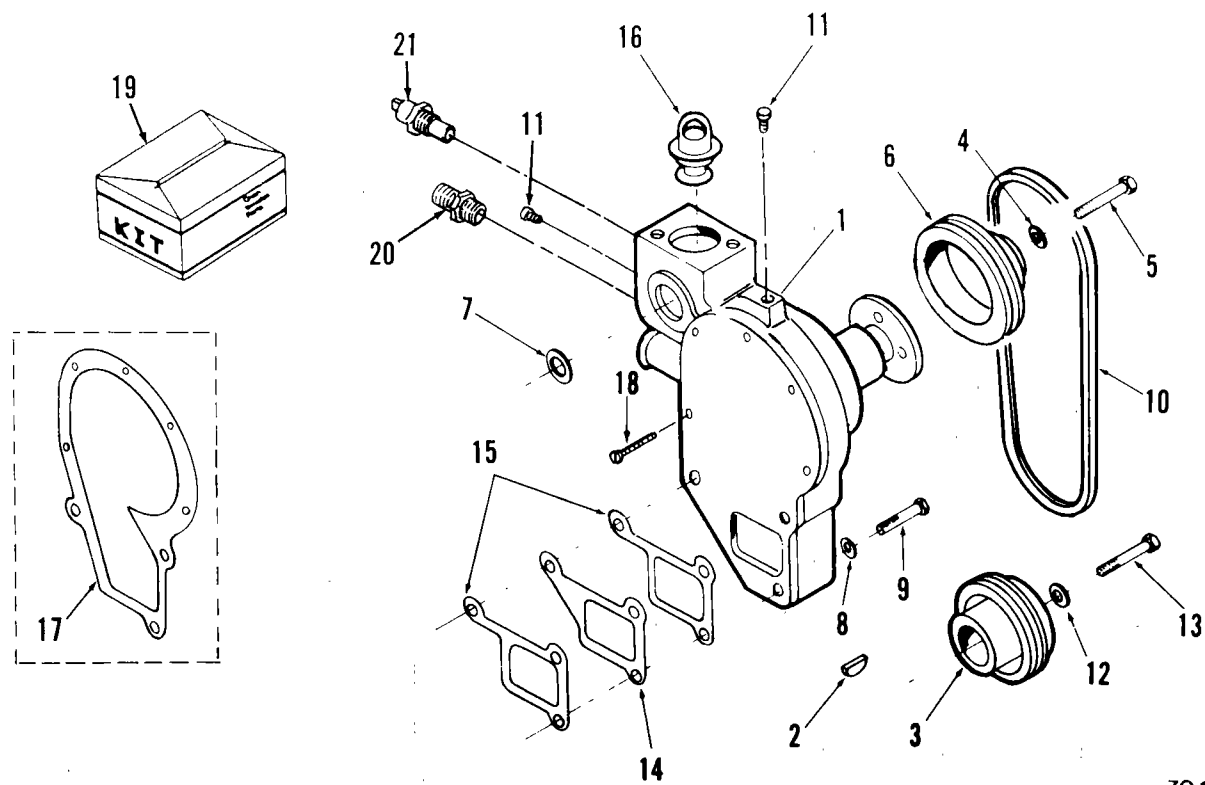
Coolant Outlet Connector



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	309-0518	1	Cover Kit, Thermostat (Includes Gasket)
2	309-0417	1	Gasket, Thermostat Cover
3	718-1048	2	Screw, Cap - Hex Head (M8 x 80 MM)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	850-2008	2	Washer, Lock - Spring (M8)
5	193-0318	1	Sender, Water Temperature (E2)

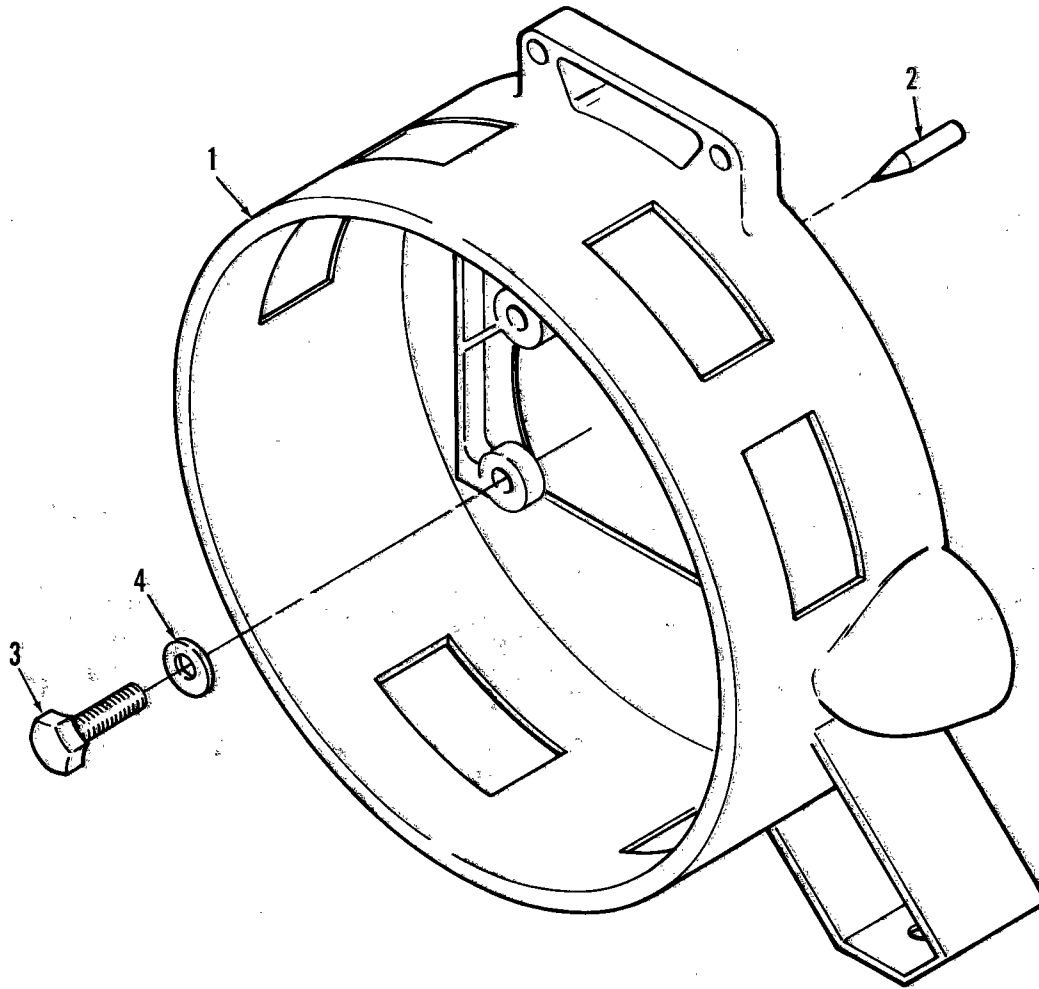
Coolant Pump



391A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	131-0350	1	Kit, Coolant Pump (Includes Mounting Gaskets)	14	131-0324	1	Spacer, Coolant Pump
2	515-0245	1	Key - Crankshaft Pulley	15	131-0294	2	Gasket, Coolant Pump Mounting
3	104-1488	1	Pulley, Crankshaft	16	309-0458	1	Thermostat (Includes Gasket)
4	740-1006	4	Washer, Flat (M8)	17	131-0334	1	Gasket, Coolant Pump Backplate
5	718-1035	4	Screw, Cap - Hex Head (M8 x 16 MM)	18	815-0612	5	Screw, Countersunk - Flat Head - Torque Drive (Special)
6	131-0341	1	Pulley, Coolant Pump	19	541-0214-02	1	Kit, Repair - Coolant Pump (Includes Gaskets, Seal, Hub, Bearing, Impeller and Backplate Mounting Screws)
7	509-0264	1	Seal, O-Ring	20	502-0836	1	Adapter, Pipe to Hose
8	740-1006	3	Washer, Flat (M8)	21	309-0437	1	Switch, Thermostat (S2)
9	718-1044	3	Screw, Cap - Hex Head (M8 x 60 MM)				
10	511-0147-14	1	Belt, Coolant Pump				
11	502-0775	2	Plug, Pipe (3/8")				
12	526-0283	1	Washer, Flat (M8)				
13	720-1123	1	Screw, Cap - Hex Head (M16 x 60 MM)				

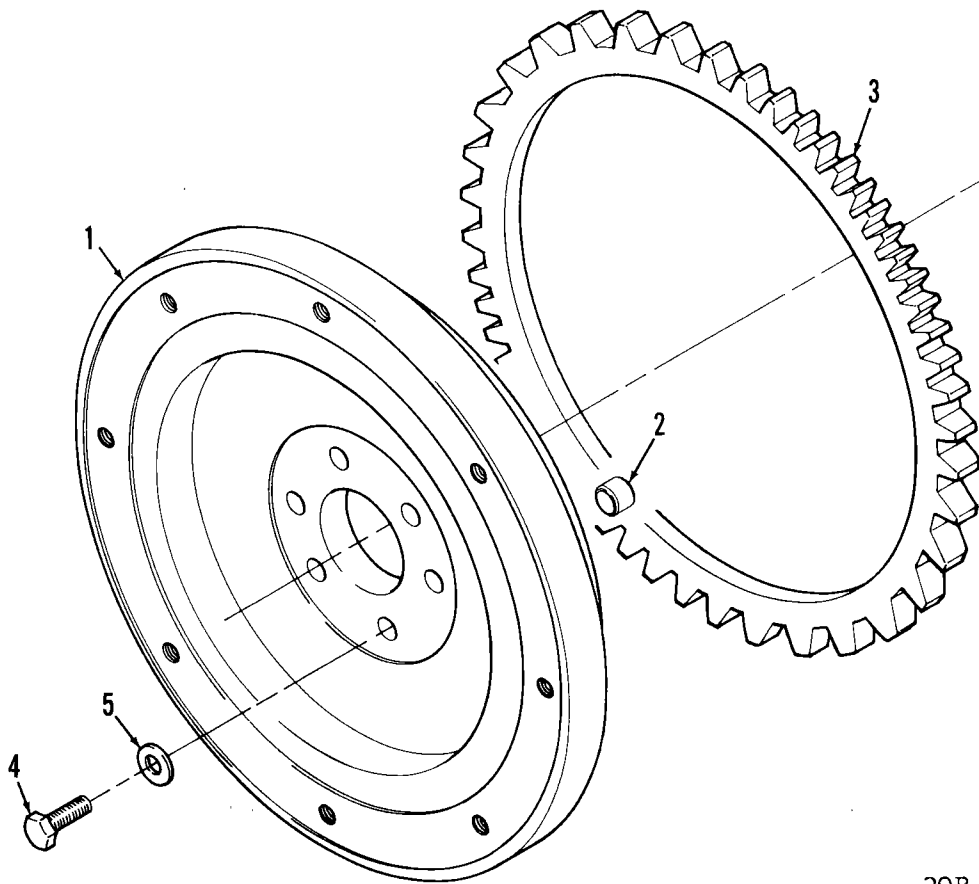
Generator Adapter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	231-0267-01	1	Adapter Assembly, Generator (Includes Timing Indicator)
2	160-1292	1	Indicator, Timing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	718-1078	6	Screw, Cap - Hex Head (M12 x 50 MM)
4	740-1801	6	Washer, Flat (M12)

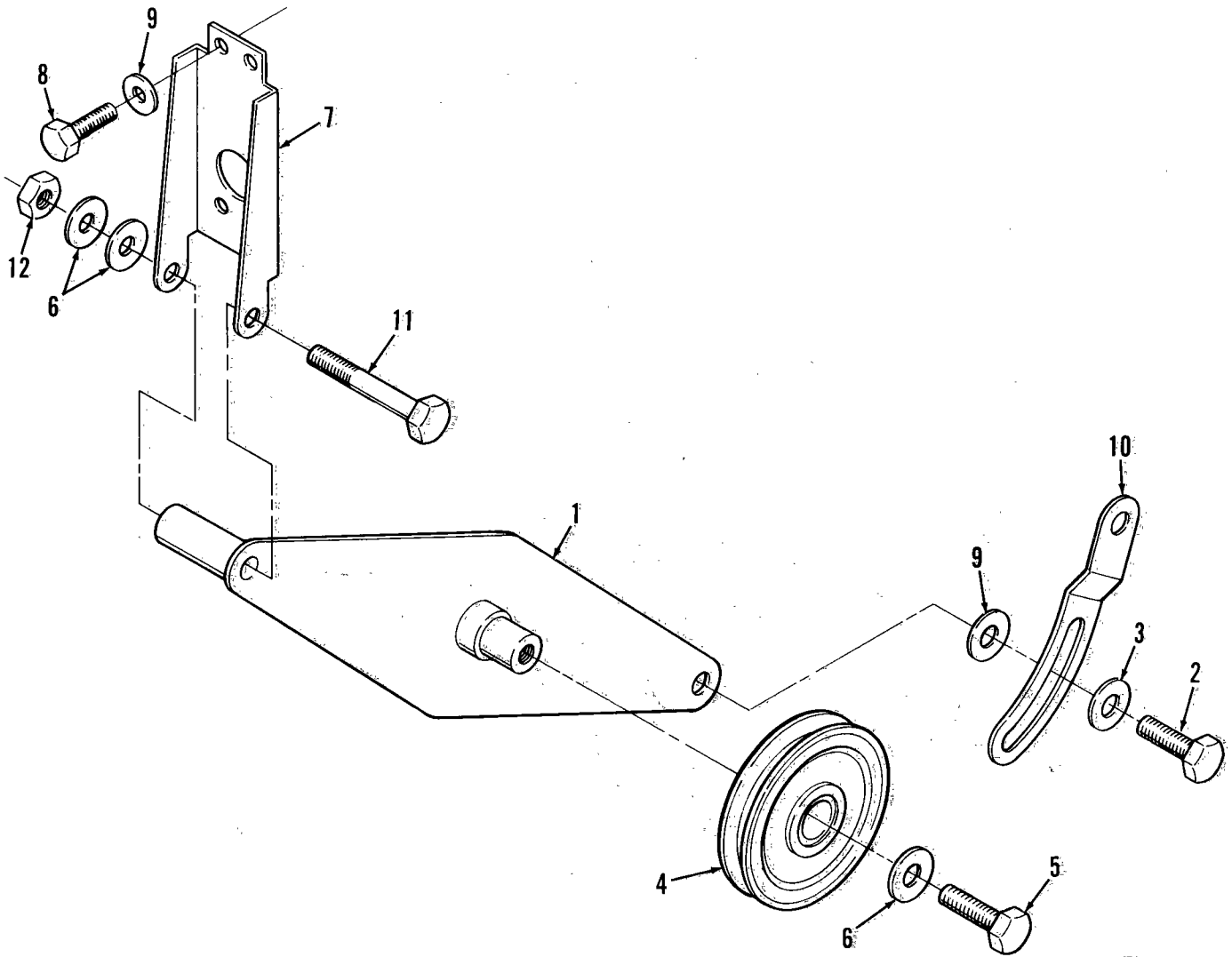
Flywheel1



29B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-1659	1	Flywheel Assembly (Includes Ring Gear and Alignment Pin)	4	720-1804	6	Screw, Cap - Flange Hex Head (M10 x 38 MM)
2	104-1171	1	Pin, Alignment	5	740-1008	6	Washer, Flat (M10)
3	104-1169	1	Gear, Ring				

Idler Pulley

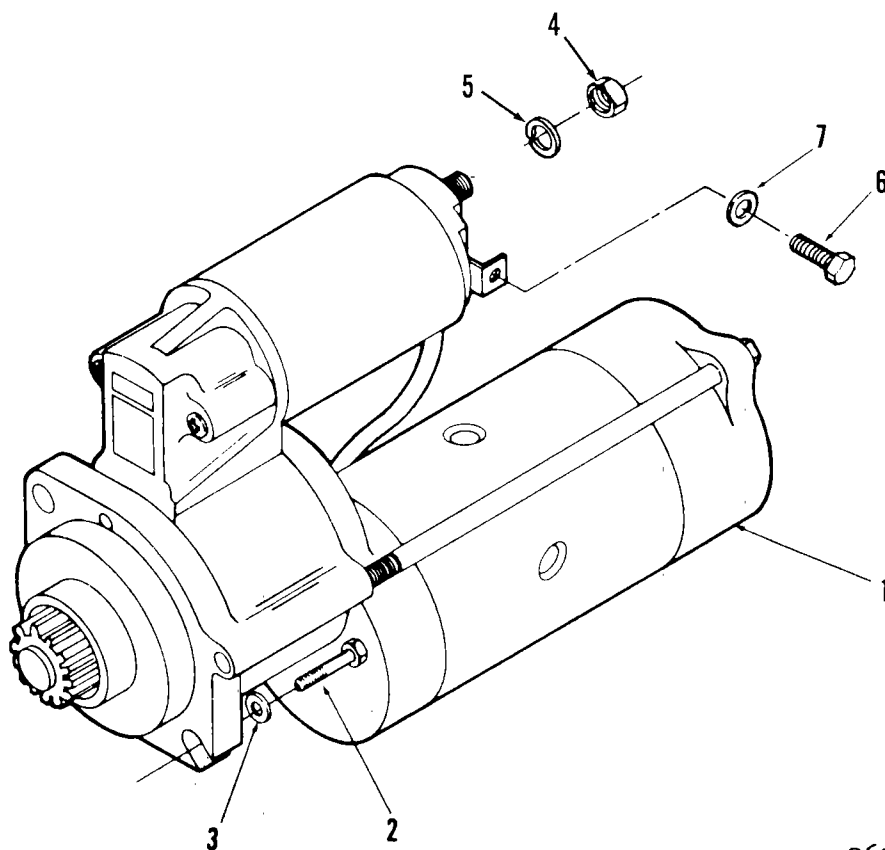


372B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-2430	1	Plate, Idler
2	718-1036	1	Screw, Cap - Hex Head (M8 x 20 MM)
3	526-0122	1	Washer, Flat (5/16")
4	130-2279	1	Pulley, Idler
5	718-1053	1	Screw, Cap - Hex Head (M10 x 20 MM)
6	740-1008	3	Washer, Flat (M10)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	191-1332	1	Bracket, Mounting
8	718-1037	4	Screw, Cap - Hex Head (M8 x 25 MM)
9	740-1006	5	Washer, Flat (M8)
10	130-2292	1	Strap, Adjusting
11	800-2100	1	Screw, Cap - Hex Head (M10 x 100 MM)
12	750-1008	1	Nut, Hex (M10)

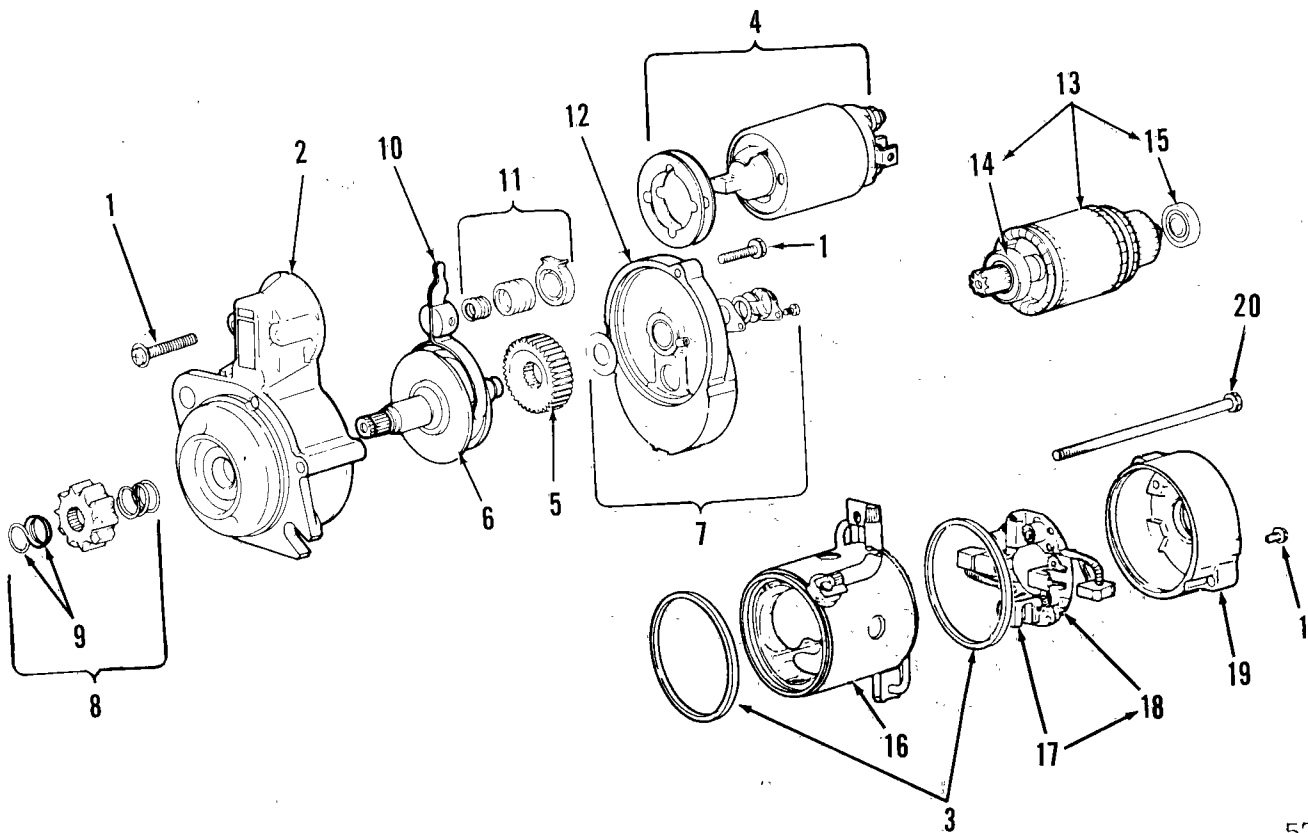
Starter



260A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Starter (Includes Switch Terminal Hardware) (See Separate Page for Components) (B1)	3	740-1010	2	Washer, Flat (M12)
	191-1394	1	Used During Early Portion of Spec A through November, 1987	4	860-2008	1	Nut, Hex (M8) B+ Terminal
	191-1888	1	Use Began in December, 1987 During Later Portion of Spec A	5	850-2008	1	Washer, Lock - Spring (M8) B+ Terminal
2	720-1806	2	Screw, Cap - Flanged Hex Head (M12 x 30 MM)	6	718-1002	1	Screw, Cap - Hex Head (M5 x 8 MM) Solenoid Terminal
				7	850-2005	1	Washer, Lock - Spring (M5) Solenoid Terminal

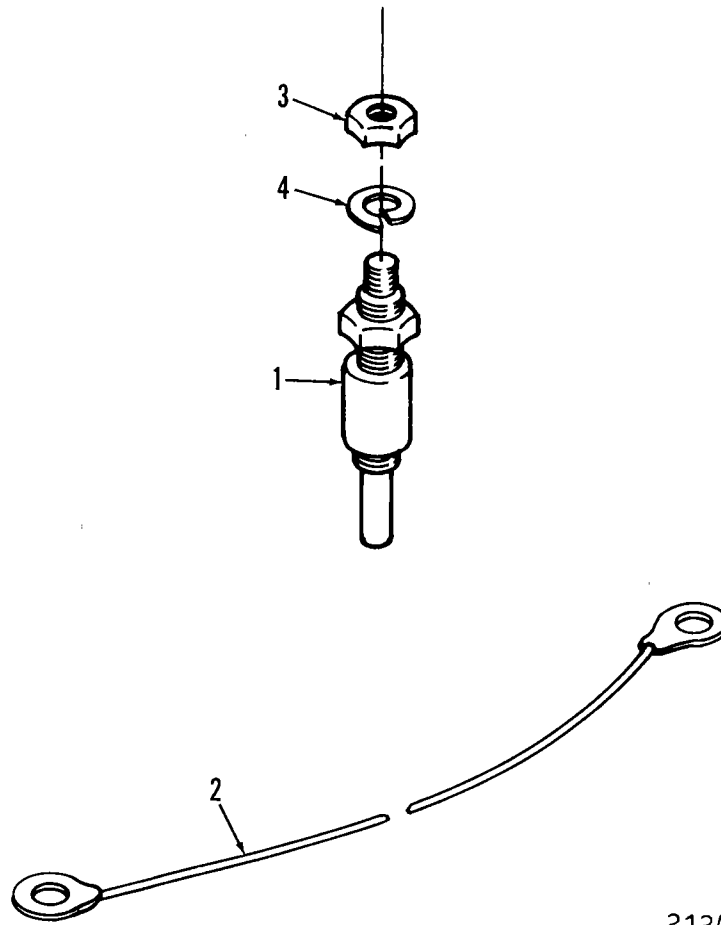
Starter Components



575A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-1394	1	Starter (Complete) Used During Early Portion of Spec A Through November, 1987	9	191-1442	1	Stopper Set (Includes Stopper and Ring)
	191-1888	1	Use Began in December, 1987 During Later Portion of Spec A	10	191-1441	1	Lever Assembly
1	191-1450	1	Screw Set	11	191-1440	1	Spring Set
2	191-1449	1	Bracket Assembly, Front (Includes Bearing)	12	191-1439	1	Bracket Assembly, Center
3	191-1893	2	Ring, "O" - Sealing (Used on 191-1888 Starter)	13	191-1438	1	Armature Assembly (Includes Bearings)
4	191-1430	1	Switch Assembly	14	191-1437	1	Bearing, Center
5	191-1446	1	Gear	15	191-1436	1	Bearing, Rear
6	191-1445	1	Clutch	16	191-1435	1	Yoke Assembly (Includes Pole Shoes, Field Coil and Positive Brushes)
7	191-1444	1	Cover Set (Includes Cover, Plate, Washers, Snap Ring and Screws)	17	191-1434	1	Holder, Brush (Includes Negative Brushes)
8	191-1443	1	Pinion Set (Includes Pinion, Spring and Stopper Set)	18	191-1433	4	Spring, Brush
				19	191-1432	1	Bracket, Rear
				20	191-1431	1	Bolt Set

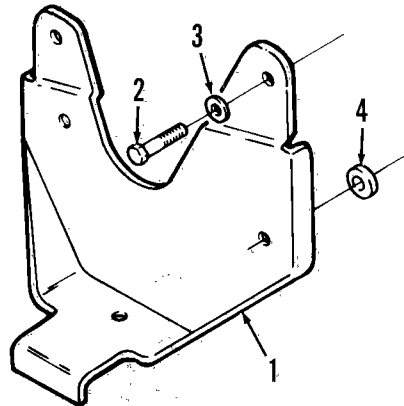
Glow Plug



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0195	3	Plug, Glow
2	336-4131	2	Lead, Glow Plug

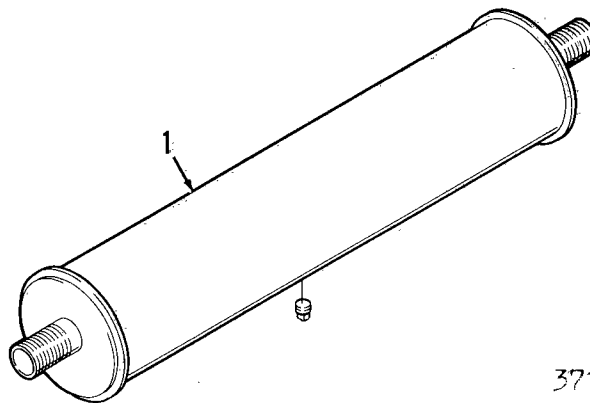
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	750-1002	3	Nut, Hex (M5)
4	850-2005	3	Washer, Lock - Spring (M5)

Front Engine Mount



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-2664	1	Bracket, Mount	3	740-1010	4	Washer, Flat (M12)
2			Screw, Cap - Hex Head.	4	403-1932	2	Spacer, Bracket Mounting
	718-1086	2	M12 x 90 MM (Top)				
	718-1802	2	M12 x 95 MM (Bottom)				

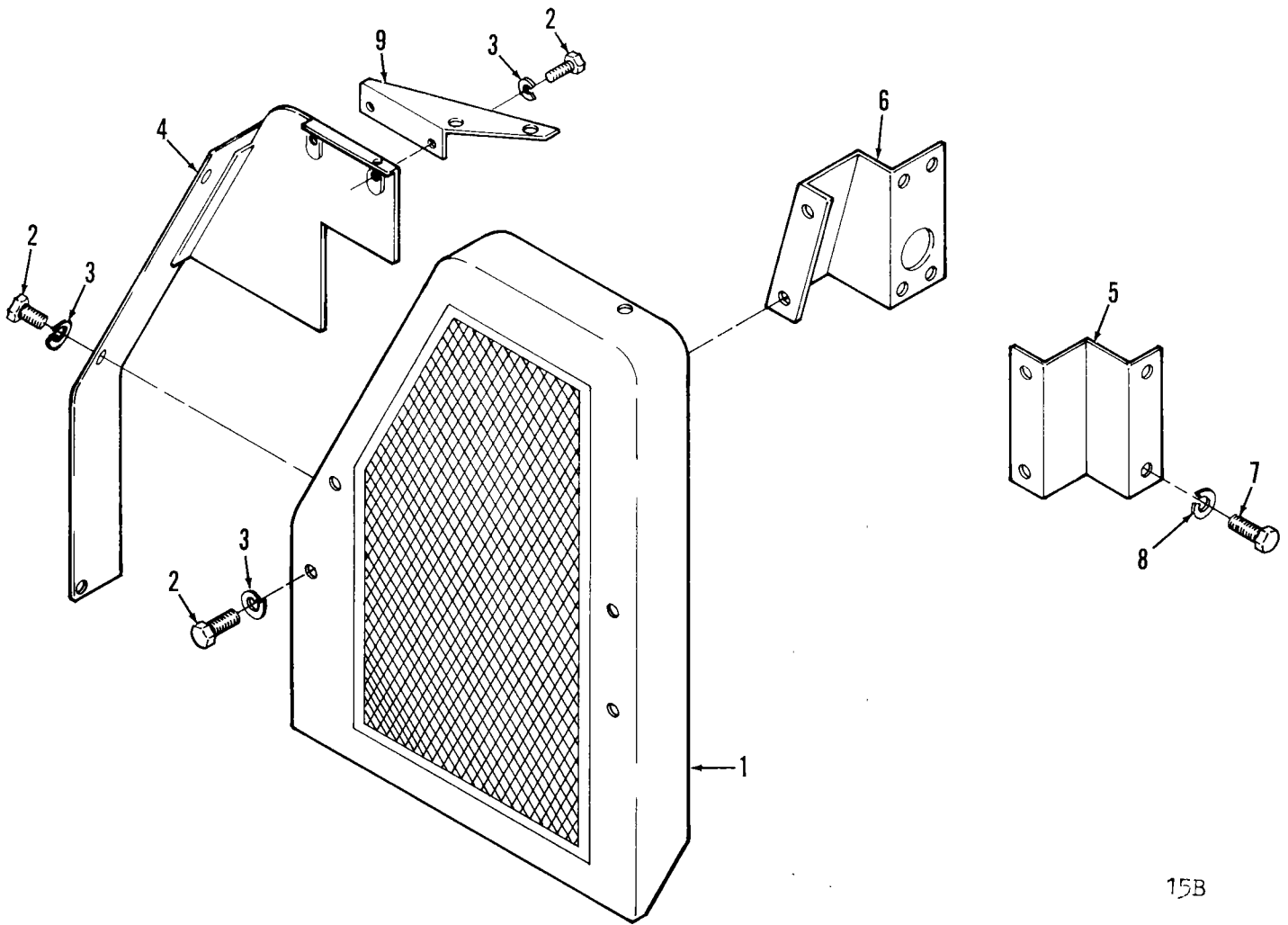
Muffler



371A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-2262	1	Muffler - Spark Arrestor

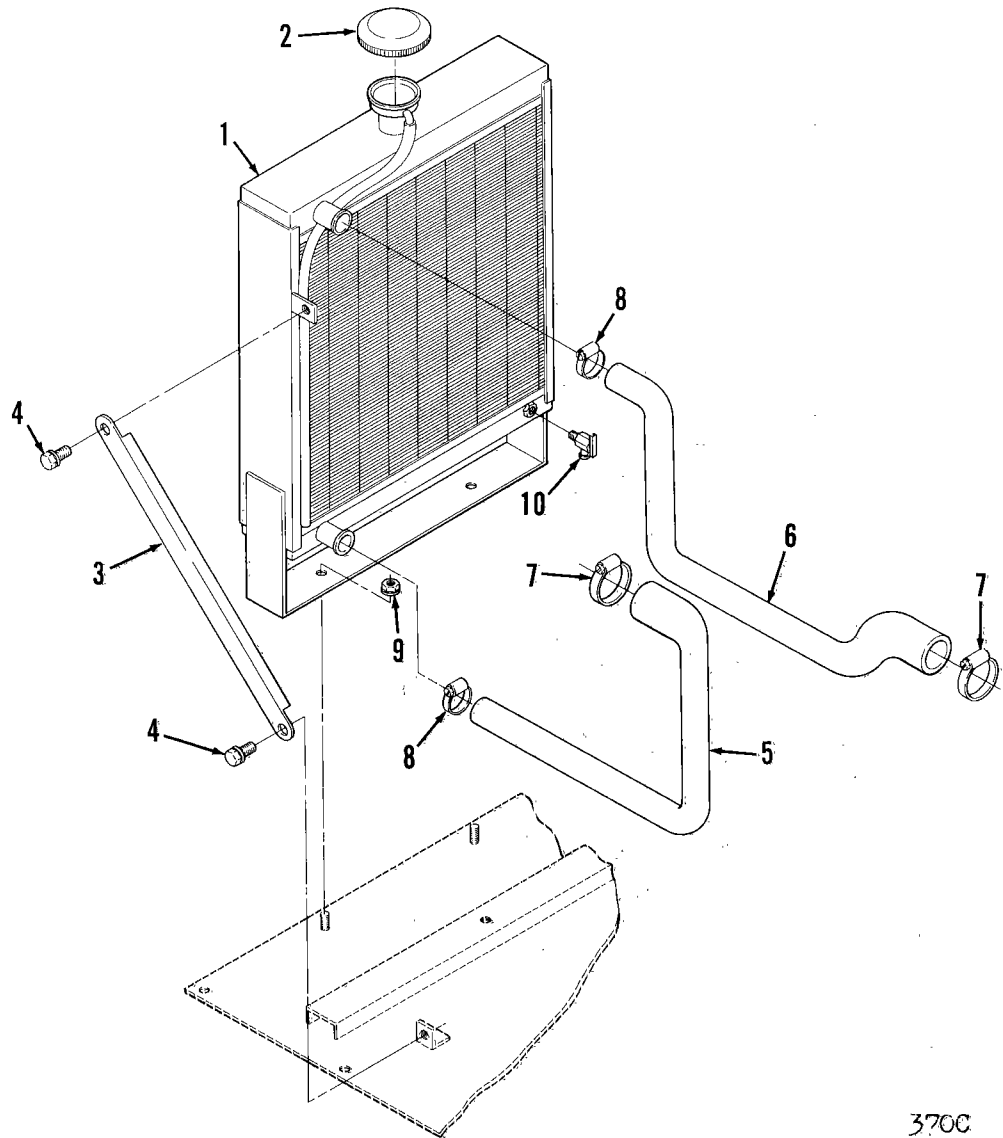
Belt Guard



15B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3155	1	Panel, Front	6	130-2202	1	Bracket, Pulley Guard (Right Hand)
2	800-2029	10	Screw, Cap - Hex Head (M6 x 12 MM)	7	800-2056	2	Screw, Cap - Hex Head (M8 x 16 MM)
3	850-2006	10	Washer, Lock - Spring (M6)	8	850-2008	2	Washer, Lock - Spring (M8)
4	130-3007	1	Panel, Side	9	130-3004	1	Bracket, Belt Guard
5	130-2201	1	Bracket, Pulley Guard (Left Hand)				

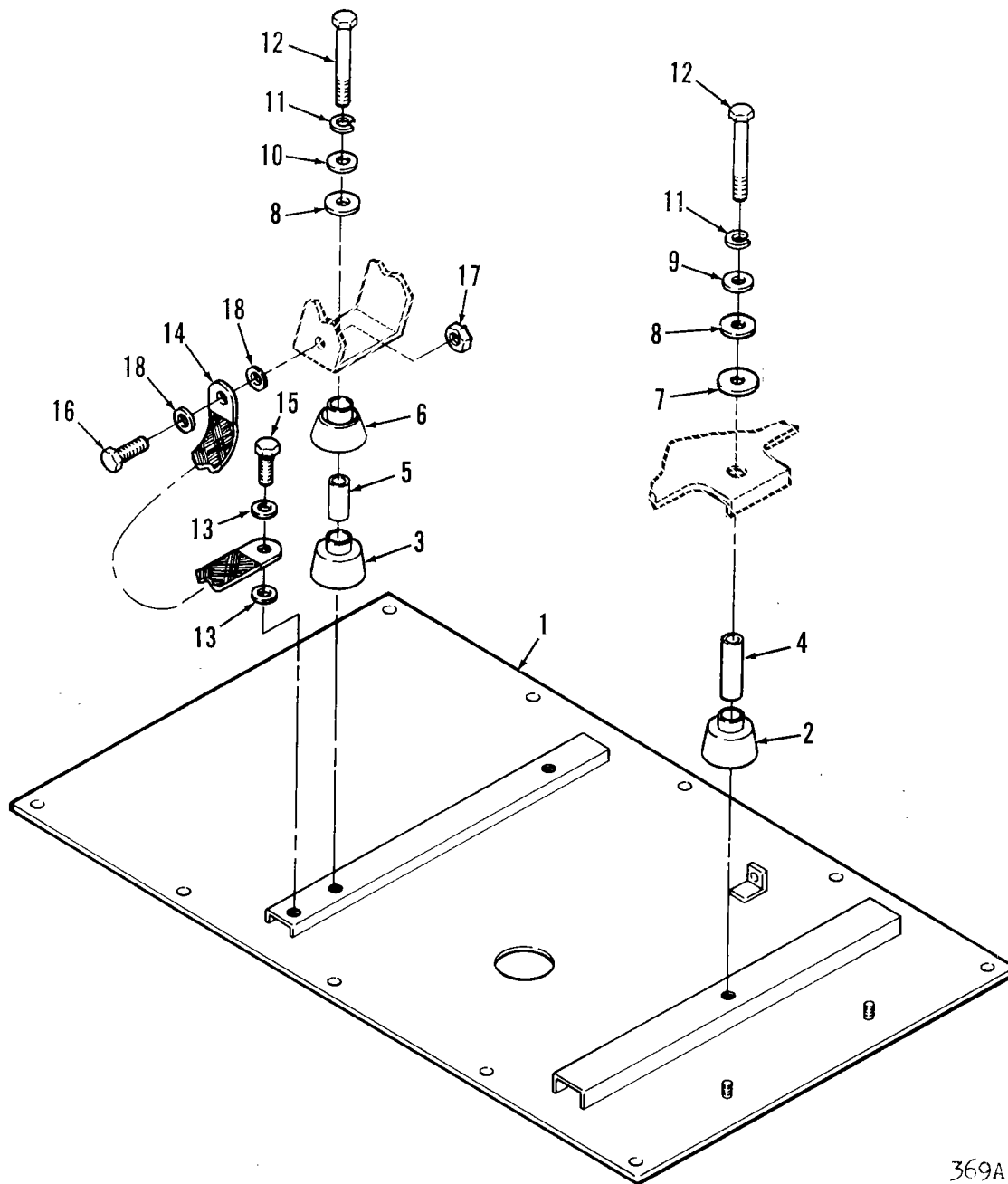
Radiator



370C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3142	1	Radiator - Includes Pressure Cap	6	503-1555	1	Hose, Radiator - Upper
2	130-0449	1	Cap, Pressure	7	503-0365	2	Clamp, Hose
3	130-3143	1	Bracket, Radiator Support	8	503-0004	2	Clamp, Hose
4	821-0014	2	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")	9	870-0257	2	Nut, Self-locking - Hex Washer Head (5/16-18)
5	503-1556	1	Hose, Radiator - Lower	10	504-0003	1	Valve, Drain

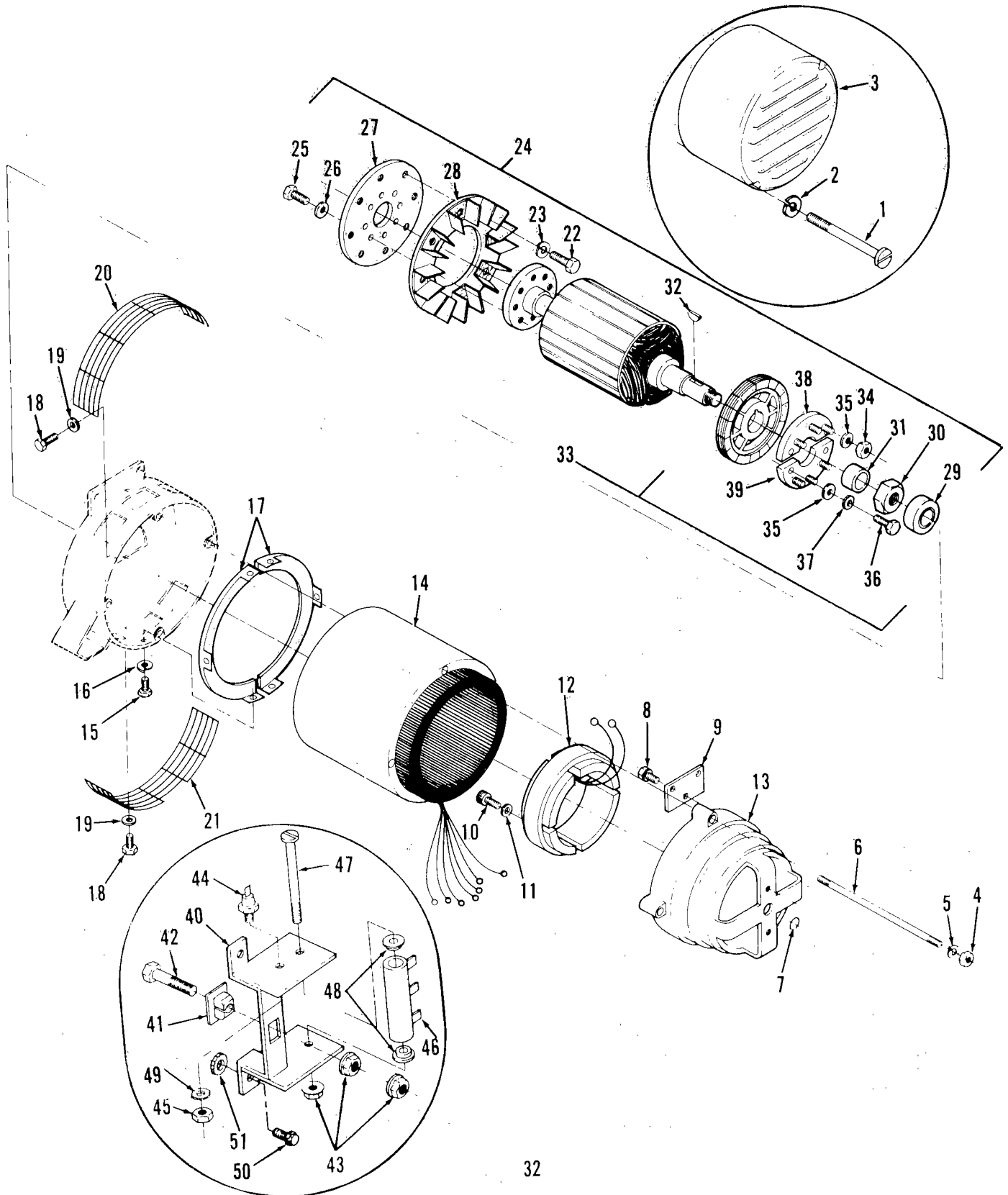
Baseplate and Mounting Cushions



369A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-2643	1	Baseplate Sets Without Mounted Radiator (24-3/4" Long)	9	526-0014	1	Washer, Flat (7/16")
	403-2638	1	Sets With Mounted Radiator (Illustrated) (45-1/4" Long)	10	526-0128	2	Washer, Flat (15/32" ID x 1-1/2" OD x 1/4" Thk)
2	402-0285	1	Cushion, Mounting - Front	11	850-0055	3	Washer, Lock - Spring (7/16")
3	402-0287	2	Cushion, Mounting - Rear	12	800-0080	3	Screw, Cap - Hex Head (7/16-14 x 3-1/4")
4	402-0290	1	Bushing - Front	13	856-0012	2	Washer, Lock - EIT (7/16")
5	370-4028	2	Bushing - Rear	14	337-1837	1	Strap, Ground - Engine
6	402-0584	2	Cup, Retaining	15	800-0069	1	Screw, Cap - Hex Head (7/16-14 x 3/4")
7	526-0286	1	Washer, Flat (1-1/8" ID x 1-3/4" OD x 3/16" Thk)	16	800-2059	1	Screw, Cap - Hex Head (M8 x 30 MM)
8	402-0282	3	Cushion, Mounting	17	860-2008	1	Nut, Hex (M8)
				18	856-1008	2	Washer, Lock - EIT (5/16")

Generator

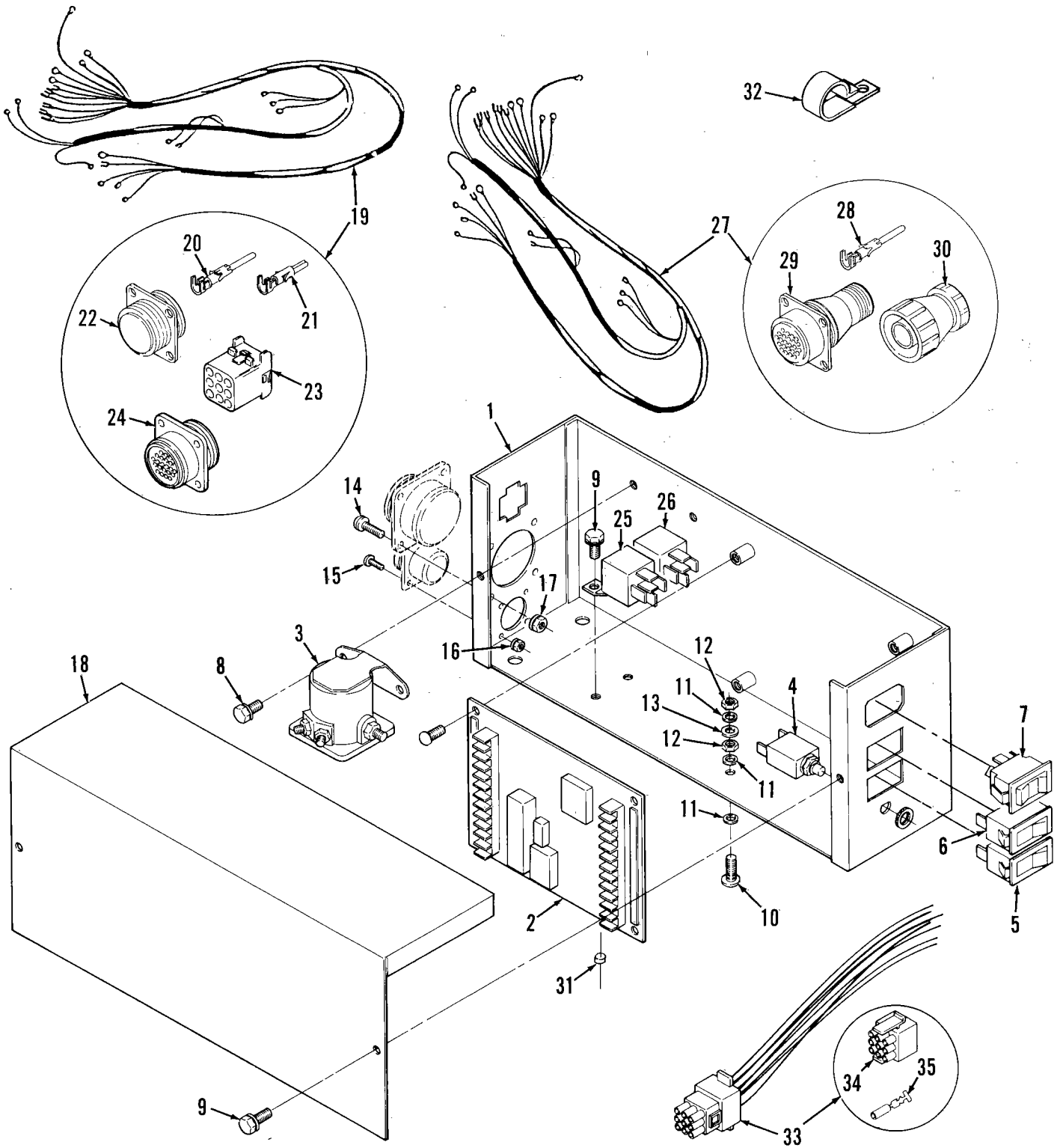


Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	812-0167	2	Screw, Machine - Round Head (1/4-20 x 6")	29	510-0112	1	*Bearing, Ball
2	850-0040	2	Washer, Lock - Spring (1/4")	30	870-0284	1	*Nut, Hex - Self-locking (1-1/8-12)
3	234-0498	1	Cover, End Bell	31	232-2398	1	*Spacer, Bearing
4	862-0003	4	Nut, Hex (3/8-16)	32	515-0094	1	*Key - Exciter Stator
5	850-0050	4	Washer, Lock - Spring (3/8")	33	201-2151	1	*Rotor Assembly, Exciter (Includes Parts Marked #)
6	520-0798	4	Stud	34	870-0131	8	#Nut, Self-locking - Hex With ET Lockwasher (#10-32)
7	509-0094	1	Seal, O-Ring	35	526-0008	12	#Washer, Flat (13/64" ID x 7/16" OD x 1/32" Thk)
8	815-0194	2	Screw, Tapping - Hex Head With ET Lockwasher (#10-32 x 3/8")	36	813-0100	4	#Screw, Machine - Round Head (#10-32 x 1/2")
9	232-2418	1	Board, Terminal	37	853-0008	4	#Washer, Lock - ET (#10)
10	802-0038	4	Screw, Cap - Socket Head (1/4-20 x 1-1/2")	38	358-0069	1	#Rectifier Assembly - Positive
11	850-0040	4	Washer, Lock - ET (1/4")	39	358-0070	1	#Rectifier Assembly - Negative
12	220-2009	1	Stator, Exciter	40	150-1938	1	Bracket, Point and Resistor Mounting
13	211-0256	1	Bell, End	41	870-0250	1	Nut, Insulating
14	220-4107	1	Stator, Generator - 60 Hertz, Code J, 12 Volt DC	42	150-0723	1	Point, Contact
15	800-2034	6	Screw, Cap - Hex Head (M6 x 20 MM)	43	870-0212	3	Nut, Self-locking - Hex Washer Head (1/4-20)
16	850-2006	6	Washer, Lock - Spring (M6)	44	358-0012	1	Diode, Rectifier
17	234-0688	2	Baffle, Air	45	868-0001	1	Nut, Hex - Jam (1/4-28)
18	800-2029	8	Screw, Cap - Hex Head (M6 x 12 MM)	46	304-0649	1	Resistor
19	526-2080	8	Washer, Flat (M6)	47	812-0166	1	Screw, Machine - Round Head (1/4-20 x 5")
20	234-0689	1	Guard, Fan - Upper	48	304-0006	2	Washer, Centering
21	234-0770	1	Guard, Fan - Lower	49	853-0013	1	Washer, Lock - ET (1/4")
22	800-2085	8	Bolt, Hex Head (M10 x 20 MM)	50	821-0010	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
23	850-2010	8	Washer, Lock - Spring (M10)	51	856-0006	2	Washer, Lock - EIT (1/4")
24	201-3374	1	Rotor Assembly, Generator (Includes Parts Marked *)				
25	805-0025	8	*Bolt, Hex Head - Slotted, Grade 8 (7/16-14 x 3/4")				
26	526-0249	8	*Washer, Flat - Hardened (15/32" ID x 1" OD x 1/8" Thk)				
27	232-2921	1	*Disk, Drive				
28	205-0145	1	*Fan, Generator				

* - Parts Included in 201-3374 Generator Rotor Assembly
- Parts Included in 201-2151 Exciter Rotor Assembly

DC Control



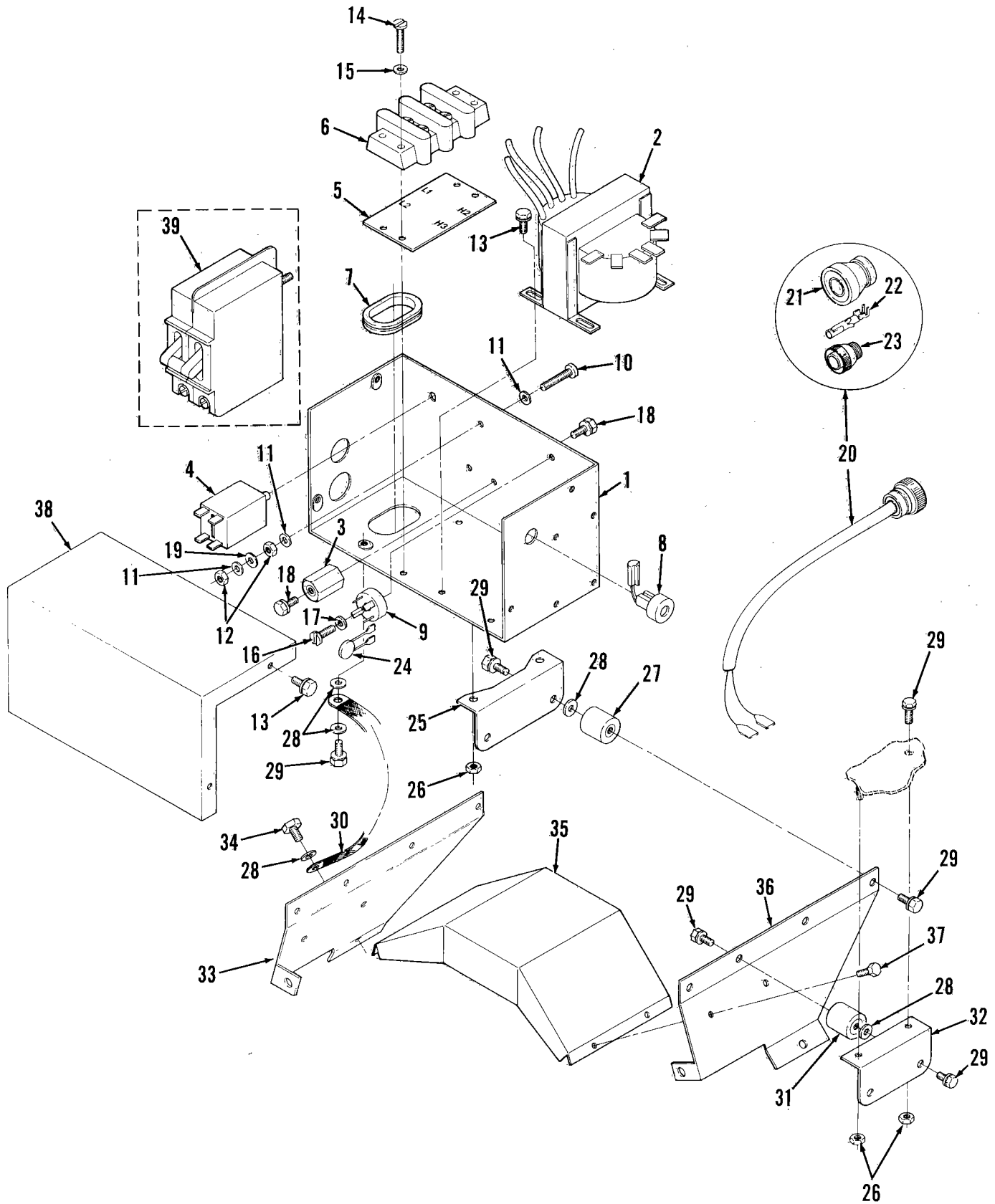
368C

DC Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	315-0075	1	Box, Control	20			*Pin, Male
2	300-2604	1	Monitor, Engine (A11)	323-1194	2		Used With J1 Receptacle
3	307-1617	1	Relay, Start Solenoid (K11)	323-1194	14		Used With J2 Receptacle
4	320-1139	1	Breaker, Circuit - Fault (.5 Amp) (CB12)	21	323-1200	8	*Socket, Male - Used With J3 Cap
5	320-1140	1	Breaker, Circuit - Control (15 Amp) (CB13)	22	323-1384	1	*Receptacle, Circular (2 Wire) (J1)
6	320-1140	1	Breaker, Circuit - Control (15 Amp) (CB11)	23	323-1325	1	*Cap, Connector (9 Pin) (J3)
7	308-0739	1	Switch, Rocker - Start/Stop/Preheat (S11)	24	323-1206	1	*Receptacle - Square Flange (24 Pin) (J2)
8	821-0008	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 5/16")	25	307-1886	1	*Relay - Heater (K13)
9	821-0004	4	Screw, Self-locking - Hex Washer Head (10-32 x 5/16")	26	307-1886	1	*Relay - Fuel Solenoid (K14)
10	810-0155	1	Screw, Machine - Round Head Brass (1/4-20 x 1-1/4")	27	338-2187	1	Harness, Wiring - DC - Engine to Control (Includes Parts Marked #)
11	856-0006	3	Washer, Lock - EIT (1/4")	28	323-1195	11	#Socket, Female
12	871-0016	2	Nut, Hex - Brass (1/4-20)	29	323-1207	1	#Plug, Circular (24 Pin) (J2)
13	526-0052	1	Washer, Flat (1/4")	30	332-2304	1	#Clamp, Cable
14	815-0544	8	Screw, Machine - Round Head (6-32 x 1/2")	31	357-0050	1	Rectifier - Stop (CR2)
15	812-0029	4	Screw, Machine - Round Head (4-40 x 3/8")	32	332-2634	3	Clamp, Loop - Insulated (Wiring Harness Mounting)
16	870-1220	4	Nut, Hex - With ET Lockwasher (4-40)	33	338-2102	1	Harness, Wiring - Remote (6") (Includes Parts Marked +)
17	870-0183	4	Nut, Hex - With ET Lockwasher (6-32)	34	323-1291	1	+Plug, Connector (9 Pin) (J3)
18	301-9883	1	Cover, Control	35	323-1199	8	+Pin, Male
19	338-2188	1	Harness, Wiring - DC - Control Box (Includes Parts Marked *)				

* - Parts Included in 338-2188 Wiring Harness
- Parts Included in 338-2187 Wiring Harness
+ - Parts Included in 338-2102 Wiring Harness

AC Control



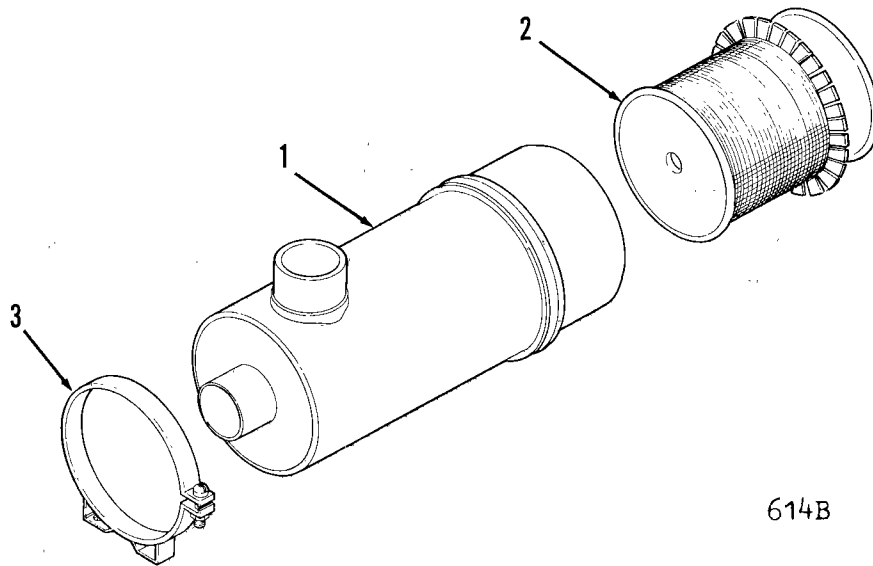
367D

AC Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0066	1	Box, Control	24	305-0703	1	Suppressor, Voltage (RV21)
2	315-0553	1	Transformer (T21)	25	319-0078	2	Bracket, Control Mounting (AC)
3	332-2370	2	Standoff, Insulator (TB1, TB2)	26	870-0257	8	Nut, Self-locking - Flange Hex Head (5/16-18)
4	320-1576	1	Breaker, Circuit (15 Amp) (CB21)	27	402-0078	4	Dampener, Vibration - AC Control
5	332-2906	1	Strip, Marker	28	856-0008	12	Washer, Lock - EIT (5/16")
6	332-0747	1	Block, Terminal (TB3)	29	821-0014	15	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")
7	508-0183	1	Grommet	30	337-2161	1	Strap, Ground
8	508-0198	1	Bushing, Strain Relief	31	402-0527	4	Isolator, Vibration - DC Control
9	305-0696	1	Bridge, Rectifier (CR21)	32	319-0079	2	Bracket, Control Mounting (DC)
10	810-0155	1	Screw, Machine - Round Head Brass (1/4-20 x 1-1/4") Grounding Stud	33	319-0068-02	1	Bracket, Control Mounting (Left Hand)
11	856-0006	3	Washer, Lock - EIT (1/4")	34	815-0236	2	Screw, Hex Head - Thread Cutting (5/16-18 x 5/8")
12	871-0016	2	Nut, Hex - Brass (1/4-20)	35	319-0067	1	Guard, Lead
13	821-0004	8	Screw, Self-locking - Hex Washer Head (10-32 x 5/16")	36	319-0068-01	1	Bracket, Control Mounting (Right Hand)
14	813-0105	2	Screw, Machine - Round Head (10-32 x 1")	37	821-0010	4	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
15	854-0010	2	Washer, Lock - IT (#10)	38	301-9882	1	Cover, Control
16	813-0103	1	Screw, Machine - Round Head (10-32 x 3/4")	39			Breaker, Circuit (Remote Mounted)
17	856-0003	1	Washer, Lock - EIT (#10)		320-1568-08	1	50 Amp
18	821-0008	4	Screw, Self-locking - Hex Washer Head (1/4-20 x 5/16")		320-1568-11	1	60 Amp
19	526-0052	1	Washer, Flat (1/4")				
20	338-2093	1	Harness, Wiring - AC - Starter Disconnect (Includes Parts Marked *)				
21	323-1385	1	*Clamp, Cable				
22	323-1195	2	*Socket, Female				
23	323-1383	1	*Plug, Circular (2 Pin) (J1)				

* - Parts Included in 338-2093 Wiring Harness

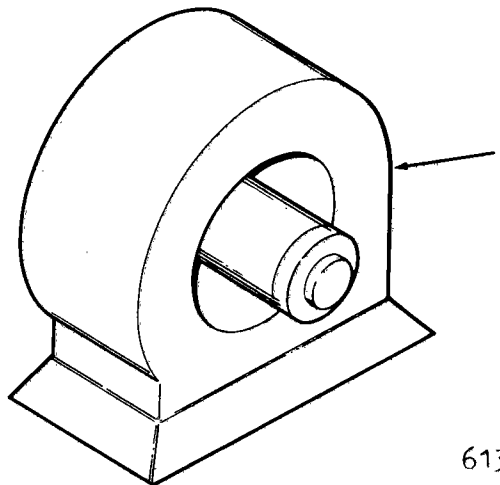
Air Cleaner



614B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2276	1	Cleaner, Air - Includes Element
2	140-2328	1	Element
3	140-2304	2	Band, Mounting

Cooling Fan



613A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	399-0115	1	Fan, Cooling Remote Radiator Application (1800 CFM)
	399-0116	1	Set Mounted Radiator Application (3600 CFM)

Paint, Thread Sealant and Gasket Kits

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	525-0305	-	Paint, Green - Enamel (13 oz. Pressurized Spray Can)
	518-0452	-	Sealant, Thread (50 cc Bottle)
	168-0176	1	Kit, Gasket - Lower End
	168-0177	1	Kit, Gasket - Valve Grind

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