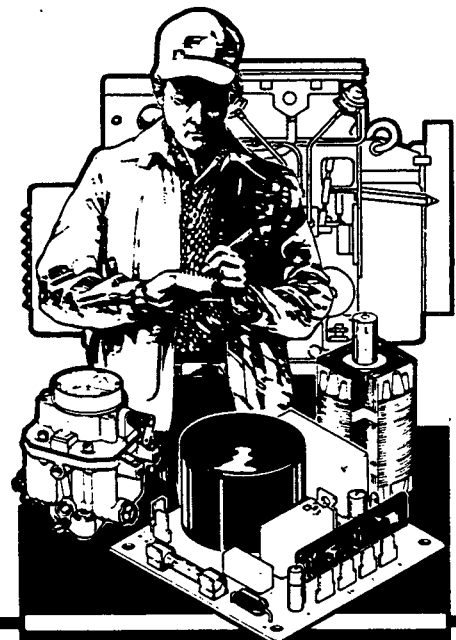


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Onan

Parts Manual

**D V A
GenSet**



Onan Service Parts

982-0221
8-86 (Spec A-B)
Replaces 1-85 (Spec A)
Printed in U.S.A.

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Introduction

This Parts Manual applies to the Standard Sets Listed below. The illustrations are arranged in groups of related items, and each part or assembly is identified by a Reference Number. All parts illustrated are typical, and unless otherwise mentioned in the description column the parts are interchangeable between models.

These typical illustrations are subject to change and reflect only the latest replacement parts arrangement. The Right and Left sides of the Set are determined by FACING the FRONT (Engine end) of the Set.

Set Data Table

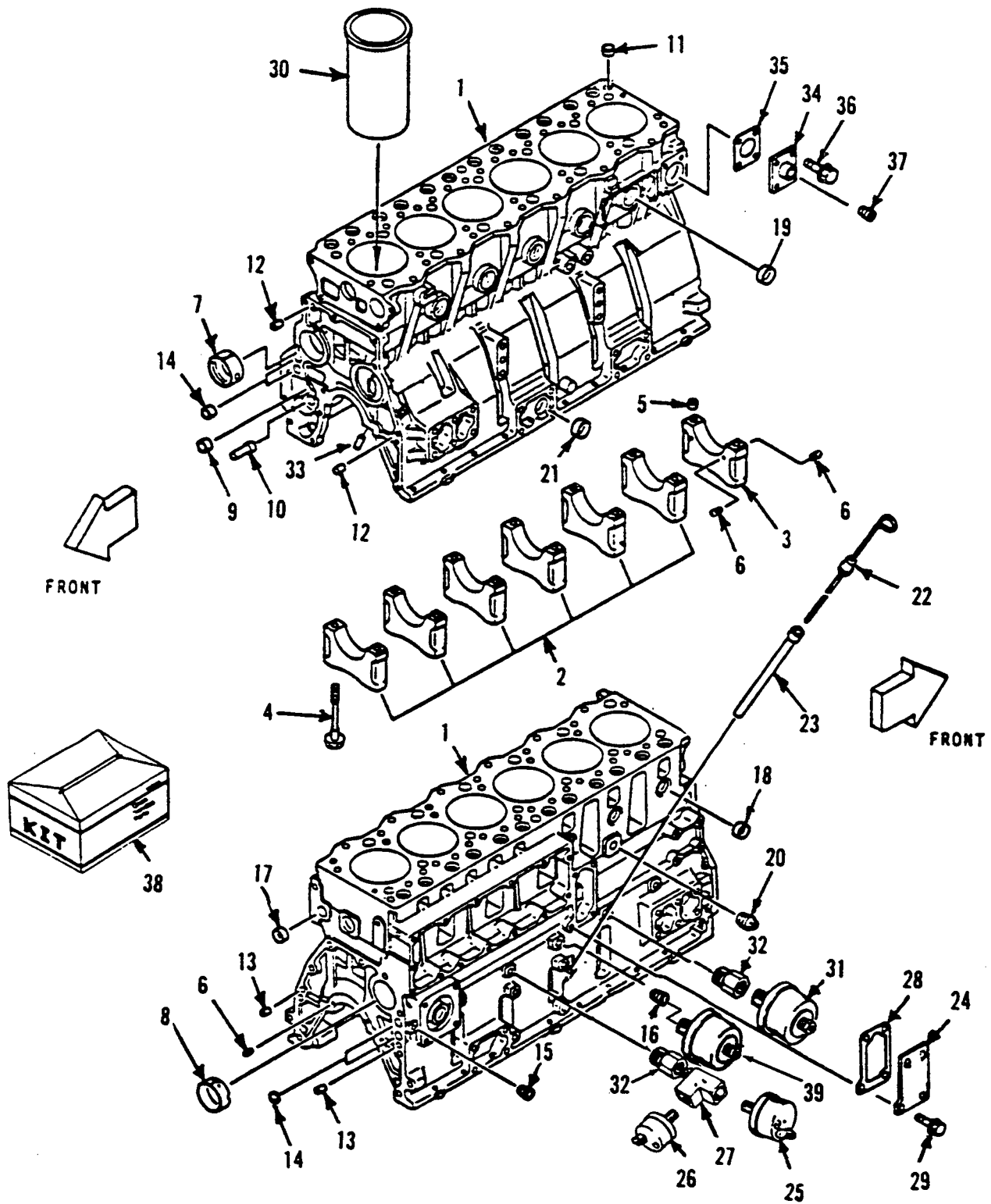
MODEL IDENTIFICATION	RATING	RPM RATING	BATTERY VOLTAGE
42.0 DVA - */ # @	42,000 WATTS	1500 RPM	24 VDC
50.0 DVA - */ # @	50,000 WATTS	1800 RPM	24 VDC

Electrical Data Table

*VOLTAGE CODE	VOLTS	HERTZ	WIRE	PHASE	NOTES
9X	347/600	60	4	3	
15	120/240	60	12	1	+
15	120/208	60	12	3	+
	120/240				
	127/220				
	139/240				
	240/416				
	254/440				
	227/480				
515	110/220	50	12	1	+
	115/230				
515	110/190	50	12	3	+
	110/220				
	115/200				
	115/230				
	120/208				
	127/220				
	220/380				
	230/400				
	240/416				
	254/480				

- * - Voltage Codes follow Model Letter 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.
- + - These Generators are Reconnectible, Refer To Operator's Manual for wiring data.

Cylinder Block

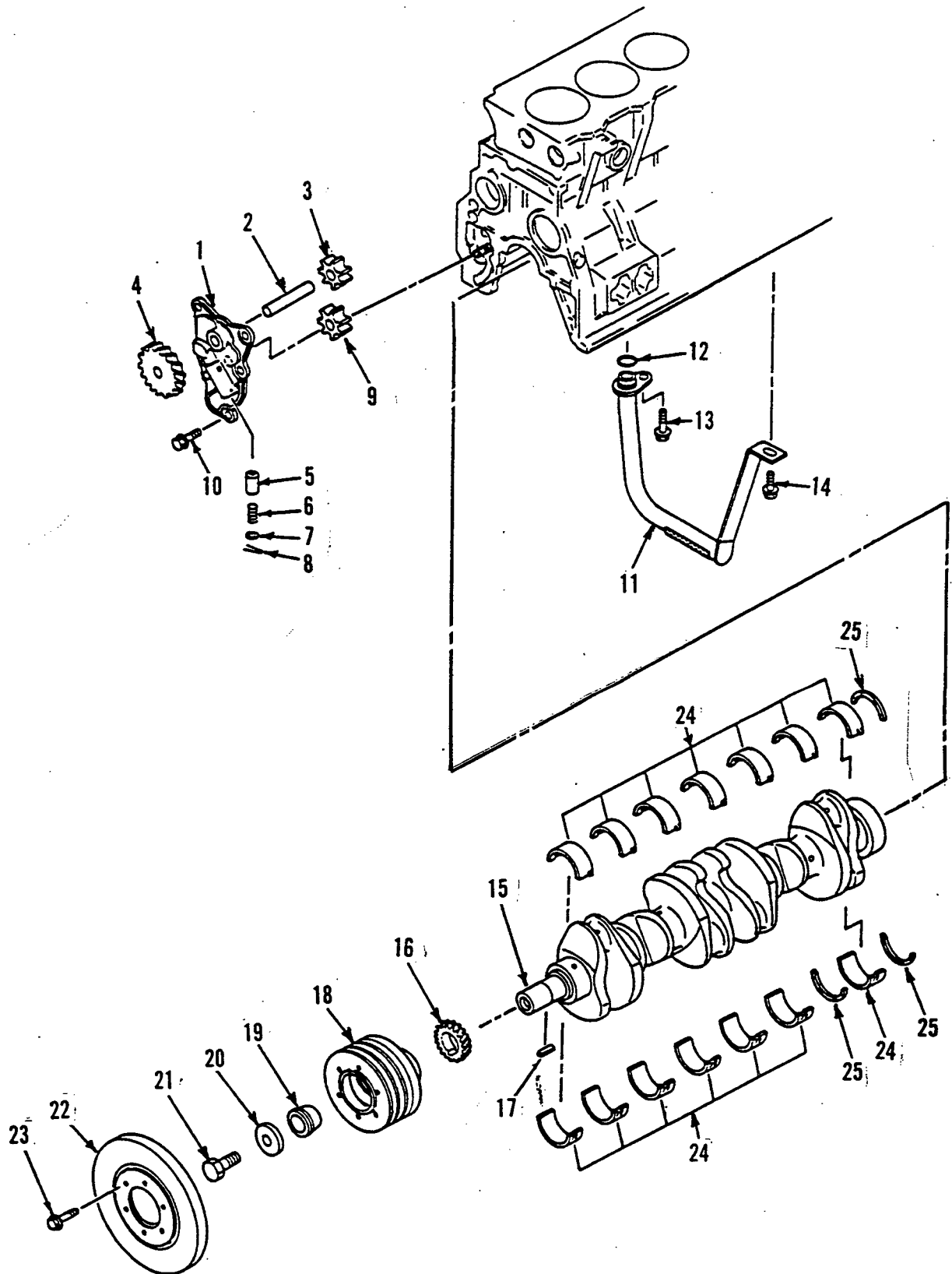


Cylinder Block

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-0733	1	Block, Cylinder (Includes Parts Marked *)	21	186-0748	1	Plug, Expansion
2	186-0734	6	*Cap, Bearing - Main	22	186-0951	1	Indicator, Level - Oil
3	186-0735	1	*Cap, Bearing - Main (Rear)	23	186-0953	1	Guide, Indicator - Oil Level
4	186-0736	14	*Bolt, Special - Bearing Cap	24	186-0952	1	Plate
5	186-0737	2	*Pin, Dowel	25	309-0272	1	Switch, Pressure - Lo Oil (S5)
6	186-0125	6	*Pin, Roll	26	309-0169	1	Switch, Pressure - Lo Oil (S1)
7	186-0738	1	*Bearing, Sleeve - Camshaft	27	502-0058	1	Tee, Pipe - Brass
8	186-0739	3	*Bearing, Sleeve - Camshaft	28	186-0749	1	Gasket
9	186-0740	1	*Bearing, Sleeve - Oil Pump	29	186-0750	4	Bolt, Hex Head
10	186-0741	1	*Shaft, Pump - Oil	30			Liner, Cylinder
11	186-0742	2	*Bushing, Sleeve		186-0751	6	Marked "A" On Lower Edge
12	186-0743	2	*Pin, Dowel		186-0752	6	Marked "B" On Lower Edge
13	186-0123	2	*Pin, Dowel	31	193-0244	1	Sender, Pressure - Oil (E1)
14	186-0744	4	*Plug	32	502-0917	2	Adapter, Pipe - Hex
15	186-0156	5	*Plug, Pipe	33	186-1063	6	Pin, Dowel
16	502-0029	1	Bushing, Reducer	34	186-0754	1	Flange
17	186-0746	1	*Plug, Expansion	35	186-0755	1	Gasket
18	186-0695	6	*Plug, Expansion	36	186-0756	4	Bolt, Hex Head
19	186-0747	9	*Plug, Expansion	37	186-0117	1	Plug, Pipe
20	186-0488	1	*Plug, Pipe	38	186-0950	1	Gasket Kit, Block - Cylinder
				39	193-0353	1	Sender, Temperature - Oil

* Parts included in 186-0733 Cylinder Block Assembly.

Crankshaft, And Oil Pump

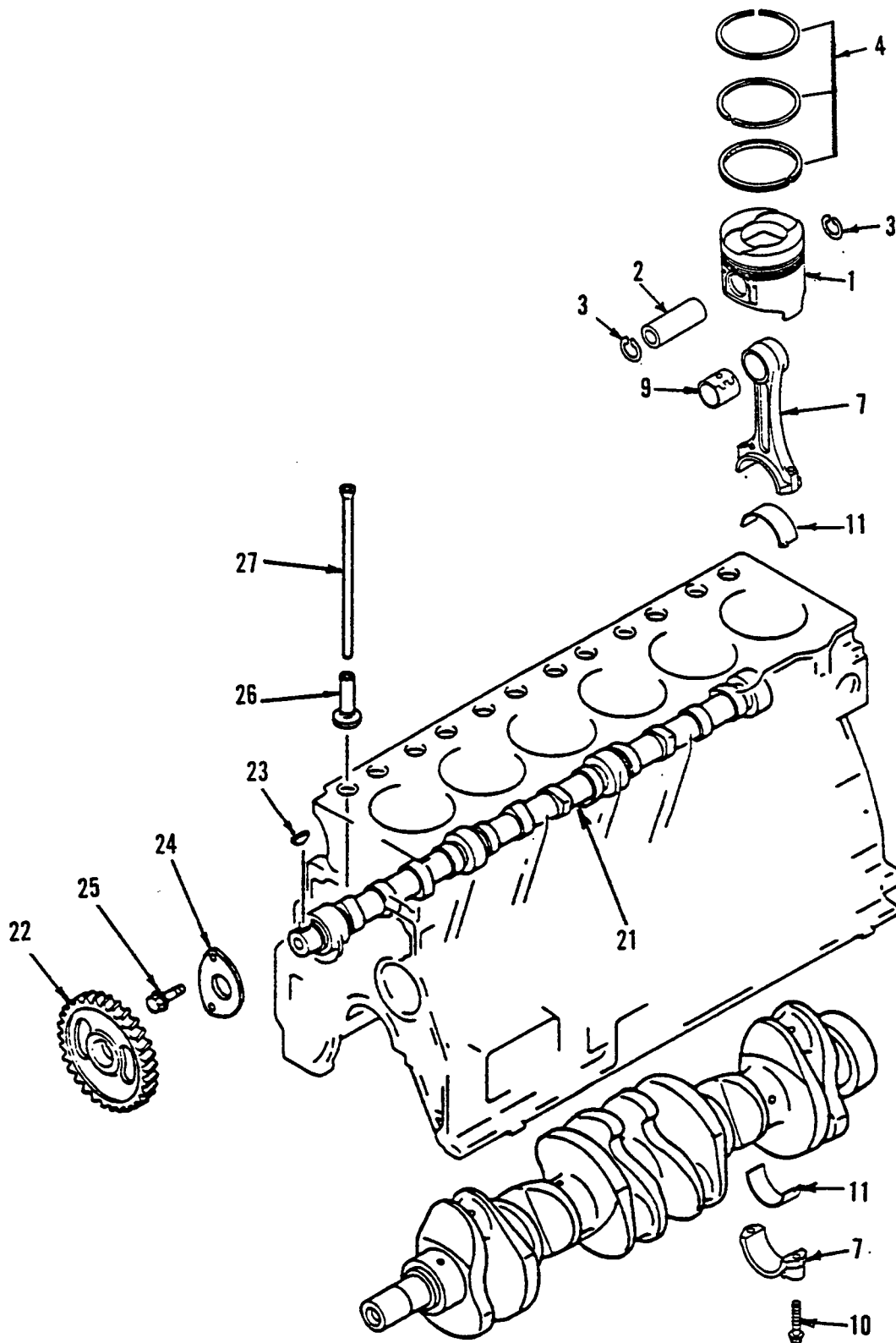


Crankshaft, And Oil Pump

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-0831	1	Cover Assembly (Includes Shaft Assembly)	18	186-0791	1	Pulley
2	186-0832	1	Shaft Assembly (Includes Internal Oil Pump Gears)	19	186-0283	1	Collar, Tapered
3	186-0833	1	Gear	20	186-0284	1	Plate
4	186-0834	1	Gear	21	186-0182	6	Bolt, Self-Locking - Hex Head
5	186-0835	1	Valve	22	186-0792	1	*Damper, Vibration
6	186-0836	1	Spring	23	186-0793	6	*Bolt, Hex Head
7	186-0837	1	Washer	24			Bearing, Main (Includes Upper and Lower Half Brgs)
8	186-0838	1	Pin, Retaining		186-0794	7	Standard
9	186-0839	1	Gear		186-0796	7	0.25mm Undersize
10	186-0750	5	Bolt, Hex Head		186-0798	7	0.50mm Undersize
11	186-0840	1	Tube, Pickup - Oil		186-0800	7	0.75mm Undersize
12	186-0812	1	Seal, O-Ring		186-0802	7	1.00mm Undersize
13	186-0842	1	Bolt, Hex Head	25			Washer Set, Thrust (Includes Three Half Washers)
14	186-0750	1	Bolt, Hex Head		186-0795	1	Standard
15	186-0787	1	Crankshaft (Includes Gear and Key)		186-0797	1	0.25mm Oversize
16	186-0788	1	Gear		186-0799	1	0.50mm Oversize
17	186-0789	1	Key		186-0801	1	0.75mm Oversize
					186-0803	1	1.00mm Oversize

* Not used on engine serial numbers 14383 and up.

Camshaft, Piston, And Connecting Rod

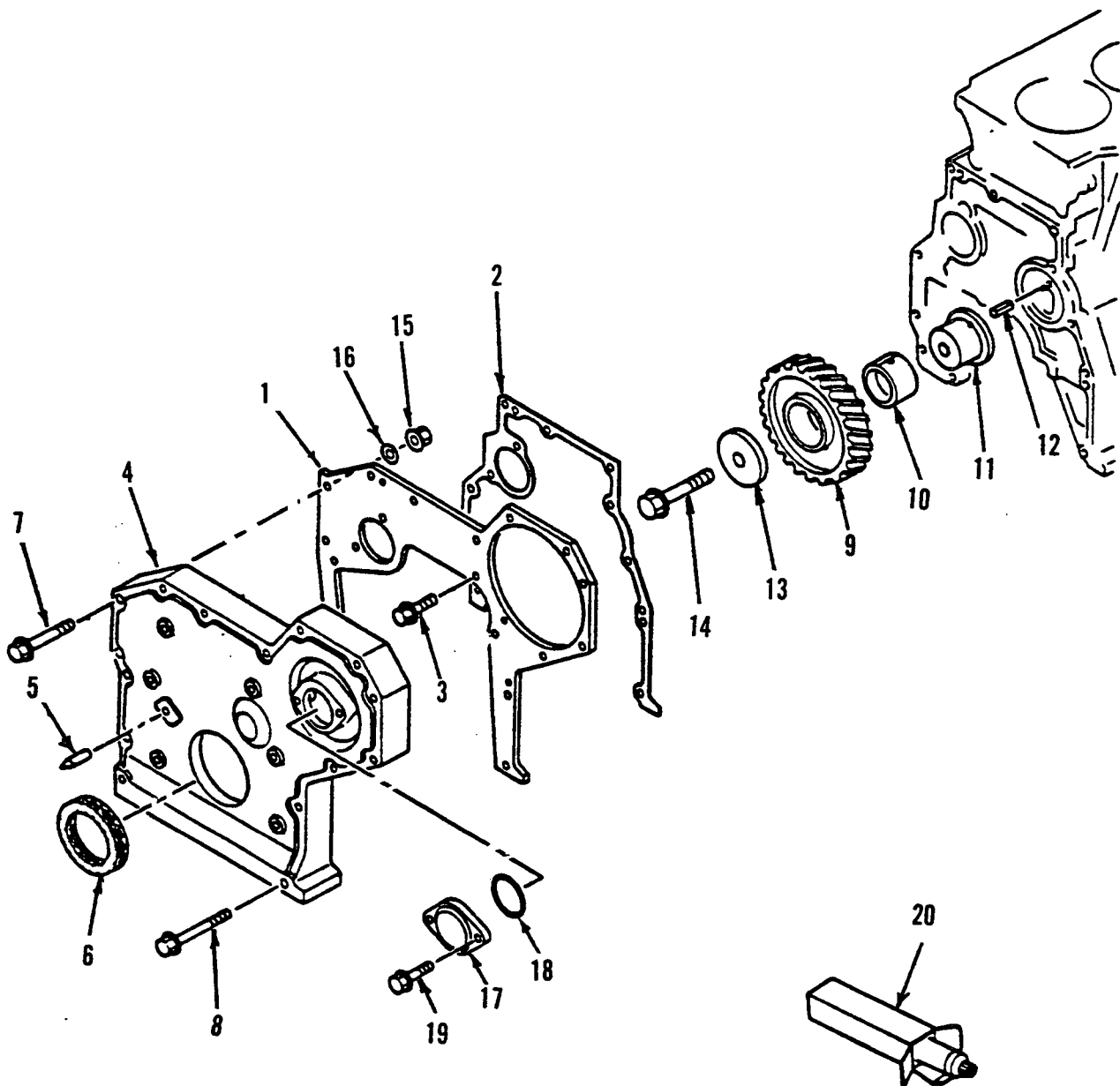


Camshaft, Piston, And Connecting Rod

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			*Piston	9	186-0815	6	Bushing, Sleeve
			Used With Cylinder Blocks	10	186-0816	12	Bolt, Special - Connecting Rod
			Marked "L"				
	186-0803	6	Standard	11			Bearing Set, Rod - Connecting
	186-0805	6	0.25mm Oversize		186-0817	6	Standard
	186-0807	6	0.50mm Oversize		186-0818	6	0.25mm Undersize
			Used With Cylinder Blocks		186-0819	6	0.50mm Undersize
			Marked "S"		186-0820	6	0.75mm Undersize
	186-0804	6	Standard		186-0821	6	1.00mm Undersize
	186-0806	6	0.25mm Oversize	21	186-1112	1	Camshaft (Includes Gear and Key)
	186-0808	6	0.50mm Oversize				
2	186-0809	6	Pin	22	186-0825	1	Gear
3	186-0810	12	Ring, Snap	23	186-0120	1	Key
4			Ring Set, Piston	24	186-0826	1	Plate, Thrust
	186-0811	6	Standard	25	186-0827	2	Bolt, Hex Head
	186-0812	6	0.25mm Oversize	26	186-0828	12	Tappet
	186-0813	6	0.50mm Oversize	27	186-0829	12	Rod, Push
7	186-0814	6	Rod, Connecting (Includes Cap)				

* Order the Piston according to the identification mark on the Cylinder Block. Block marked "L" use Piston indicated for "L", etc.

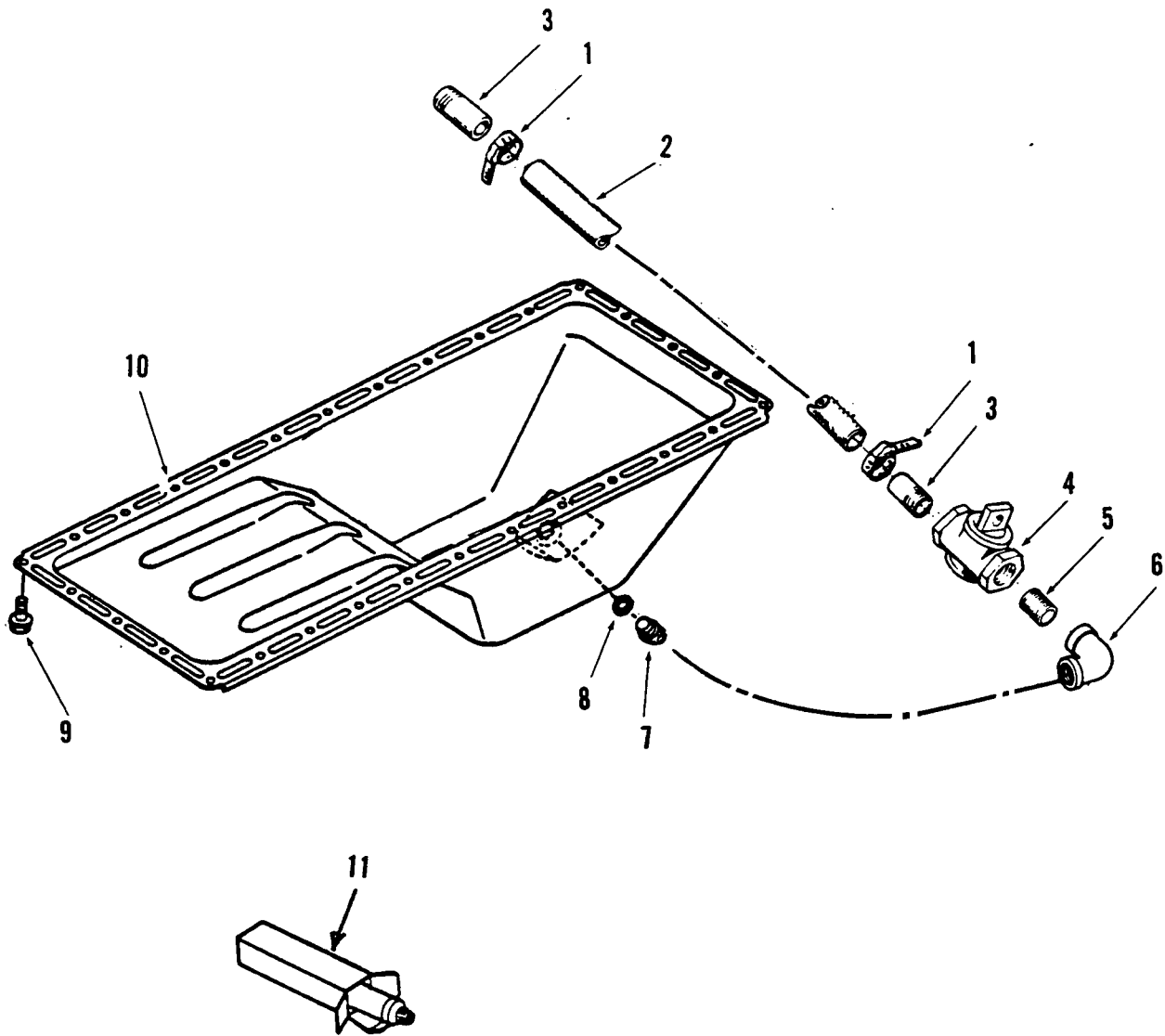
Gear Cover



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-0758	1	Plate, Front
2	186-0759	1	Gasket
3	186-0750	2	Bolt, Hex Head
4	186-0760	1	Gearcase
5	186-0761	1	Pin, Pointed
6	186-0762	1	Seal, Oil - Front
7	186-0763	13	Bolt, Hex Head
8	186-0764	2	Bolt, Hex Head
9	186-0765	1	Gear (Includes Bushing)
10	186-0766	1	Bushing, Sleeve

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	186-0767	1	Shaft
12	186-0126	1	Pin, Roll
13	186-0768	1	Washer, Flat
14	186-0769	1	Bolt, Hex Head
15	186-0770	1	Nut, Hex
16	186-0106	1	Washer, Flat
17	186-0771	1	Cover, Plate
18	186-0772	1	Seal, O-Ring
19	186-0773	2	Bolt, Hex Head
20	186-0727	1	Gasket, Liquid (Tube)

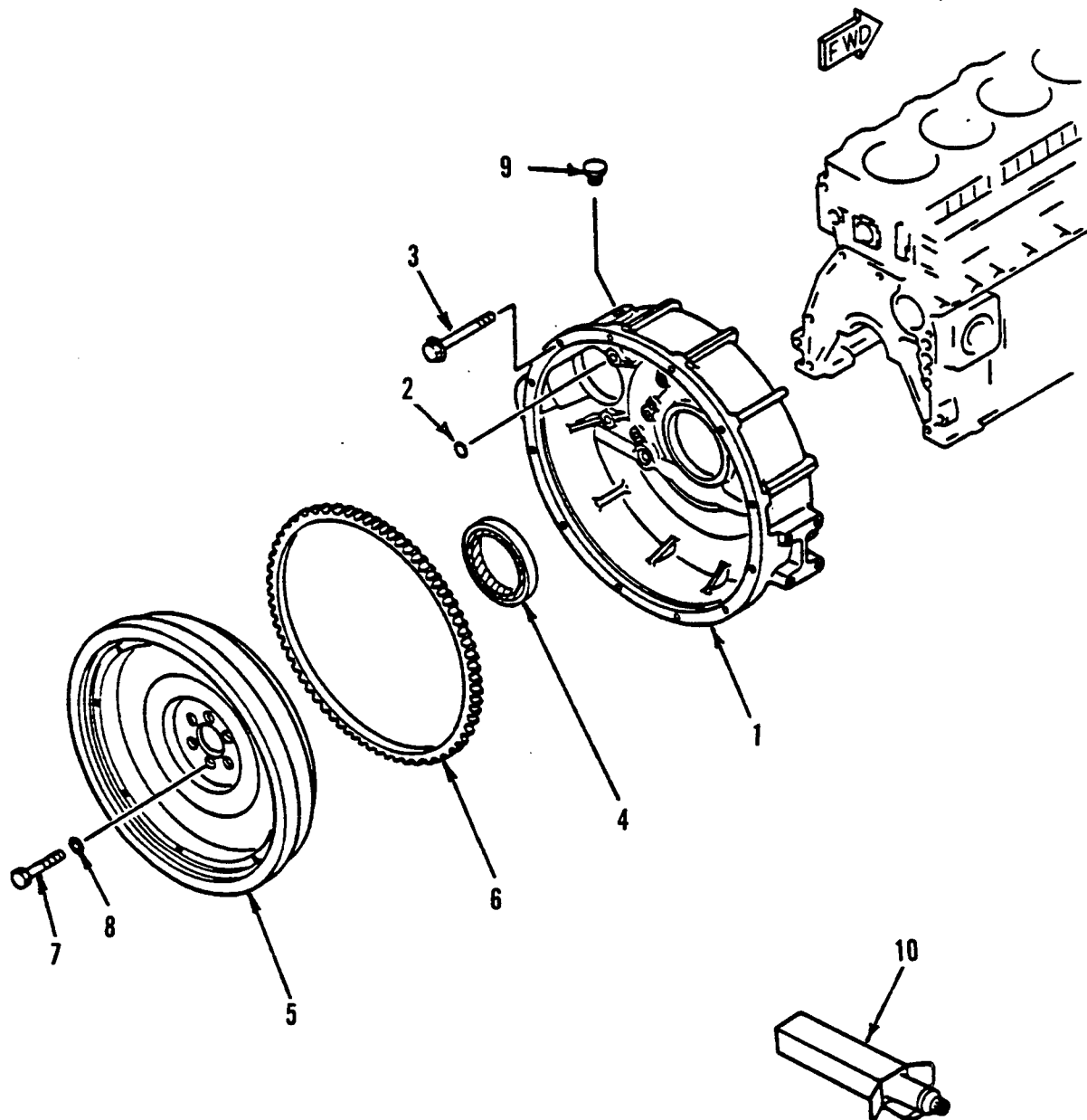
Oil Pan



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0197	2	Clamp, Hose
2	503-1195	1	Hose, Rubber
3	505-0185	2	Nipple, Pipe - Half
4	504-0011	1	Valve, Brass
5	505-0100	1	Nipple, Pipe - Close
6	505-0040	1	Elbow, Pipe - 90°

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	502-1004	1	Adapter, Pipe - Hex
8	508-0263	1	Washer, Nylon - Flat
9	186-0777	30	Bolt, Hex Head
10	186-0774	1	Pan, Oil
11	186-0727	1	Gasket, Liquid (Tube)

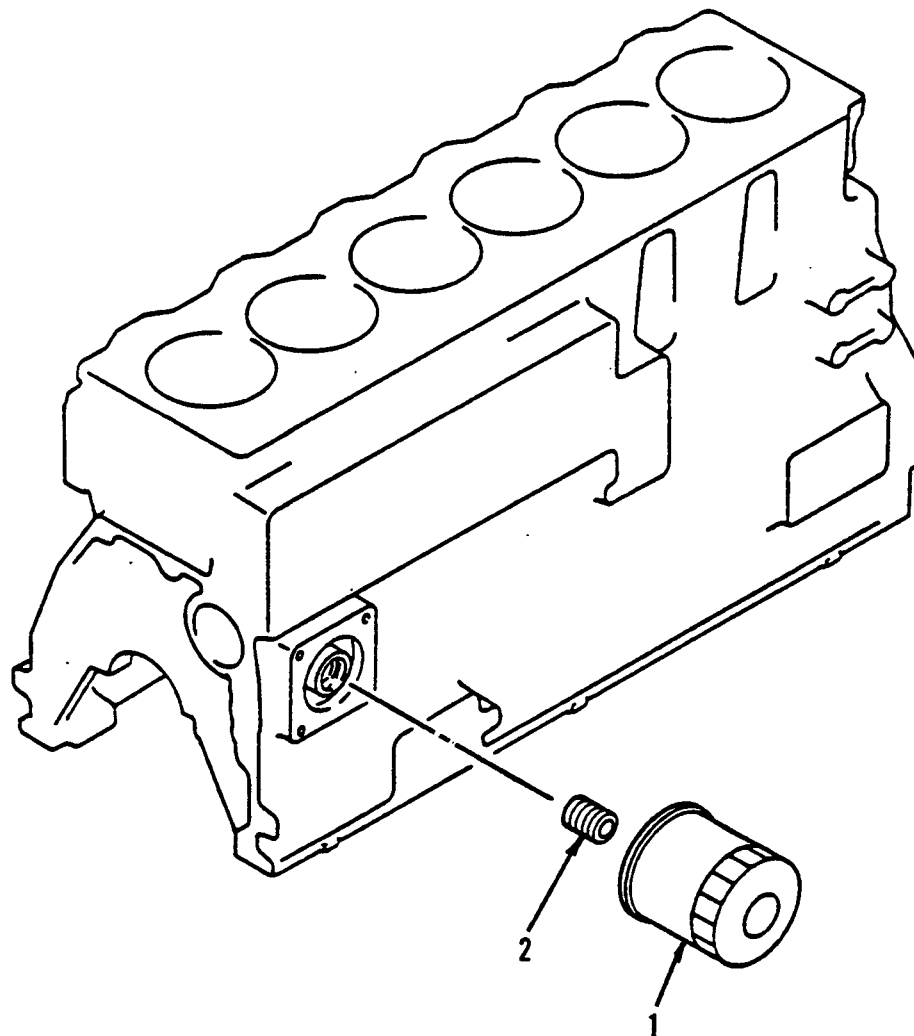
Flywheel, And Flywheel Housing



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-0778	1	Housing, Flywheel (Includes Plug)
2	186-0779	2	Plug
3	186-0780	11	Bolt, Hex Head
4	186-0781	1	Seal, Oil - Rear
5	186-0786	1	Flywheel (Includes Ring Gear)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	186-0783	1	Gear, Ring
7	186-0784	6	Bolt, Hex Head
8	186-0785	6	Washer, Lock - Spring
9	186-0407	1	Plug
10	186-0727	1	Gasket, Liquid (Tube)

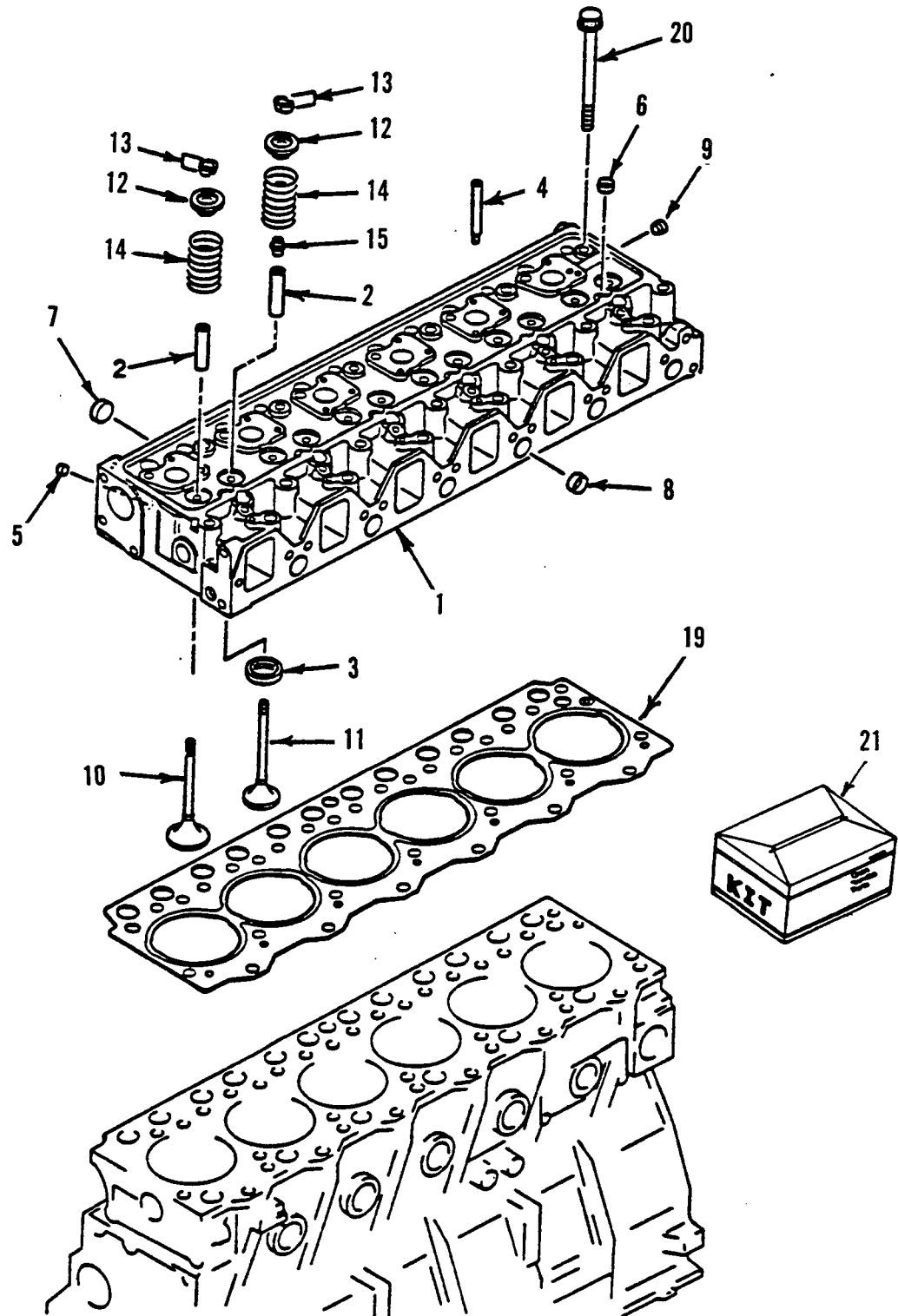
Oil Filter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-0843	1	Filter, Oil

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	186-0844	1	Nipple, Pipe

Cylinder Head



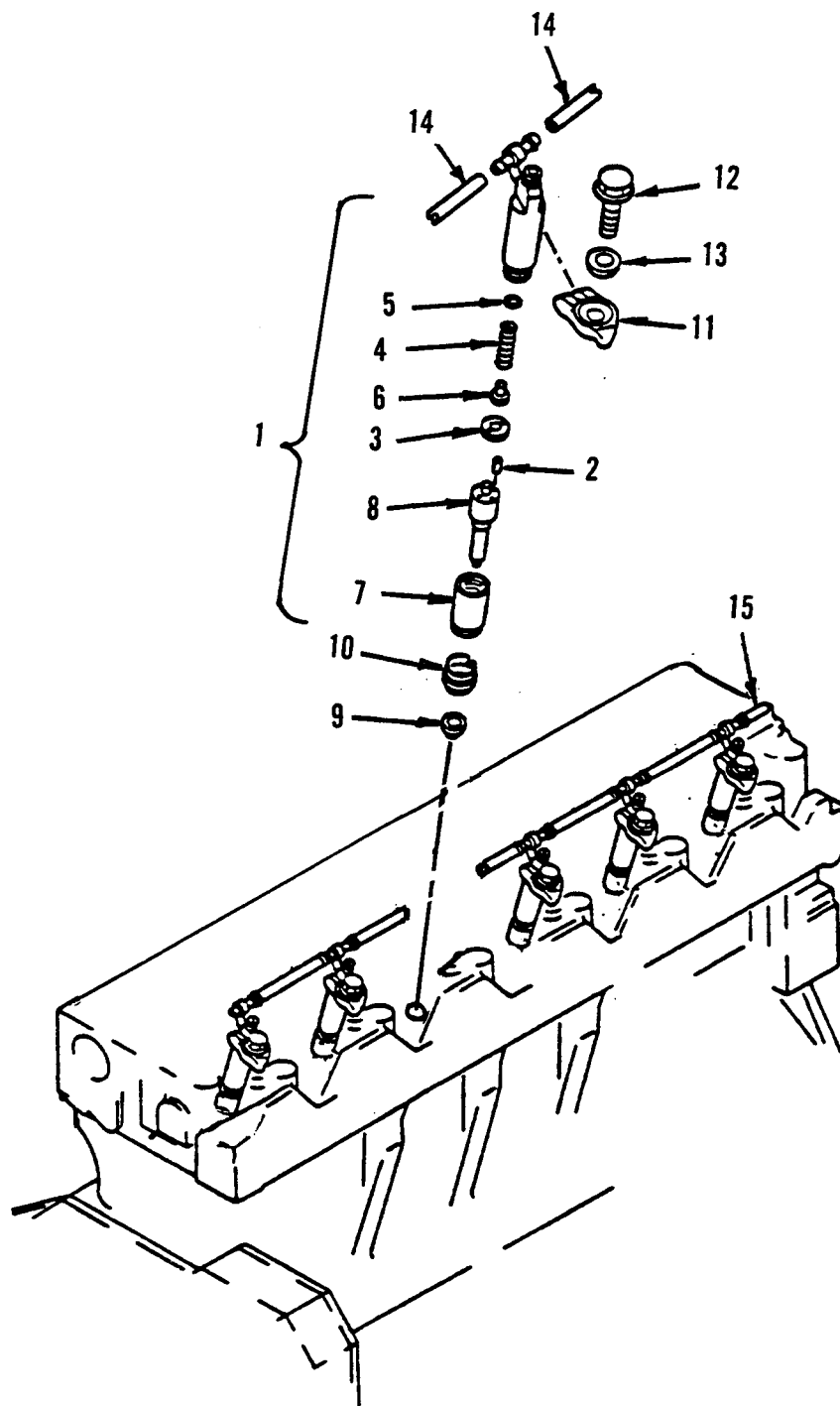
Cylinder Head

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-0686	1	Head Assembly, Cylinder	7	186-0694	5	**Plug, Expansion
	186-0687	1	With Valves (Includes	8	186-0695	16	**Plug, Expansion
			Parts Marked *)	9	186-0696	1	**Plug, Expansion
	186-0688	12	Less Valves (Includes	10	186-0698	1	*Valve, Intake
			Parts Marked +)	11	186-0699	1	*Valve, Exhaust
2	186-0689	6	**Guide, Valve	12	186-0700	12	*Seat, Spring
3	186-0690	6	Seat, Valve - Exhaust	13	186-0701	24	*Collet, Lock - Valve
	186-0691	6	** Standard	14	186-0702	12	*Valve, Spring
	186-0692	6	0.25mm Oversize	15	186-0703	6	*Seal, Stem - Valve
	186-0693	6	0.50mm Oversize	19	186-0705	1	Gasket
4	186-0697	1	**Pipe, Breather	20	186-0706	25	Bolt, Hex Head
5	186-0692	6	**Plug, Expansion	21	186-0949	1	Gasket Kit, Head - Cylinder
6	186-0693	7	**Plug, Expansion				

* Parts included in 186-0686 Cylinder Head Assembly.

+ Parts included in 186-0687 Cylinder Head Assembly.

Nozzle Holder

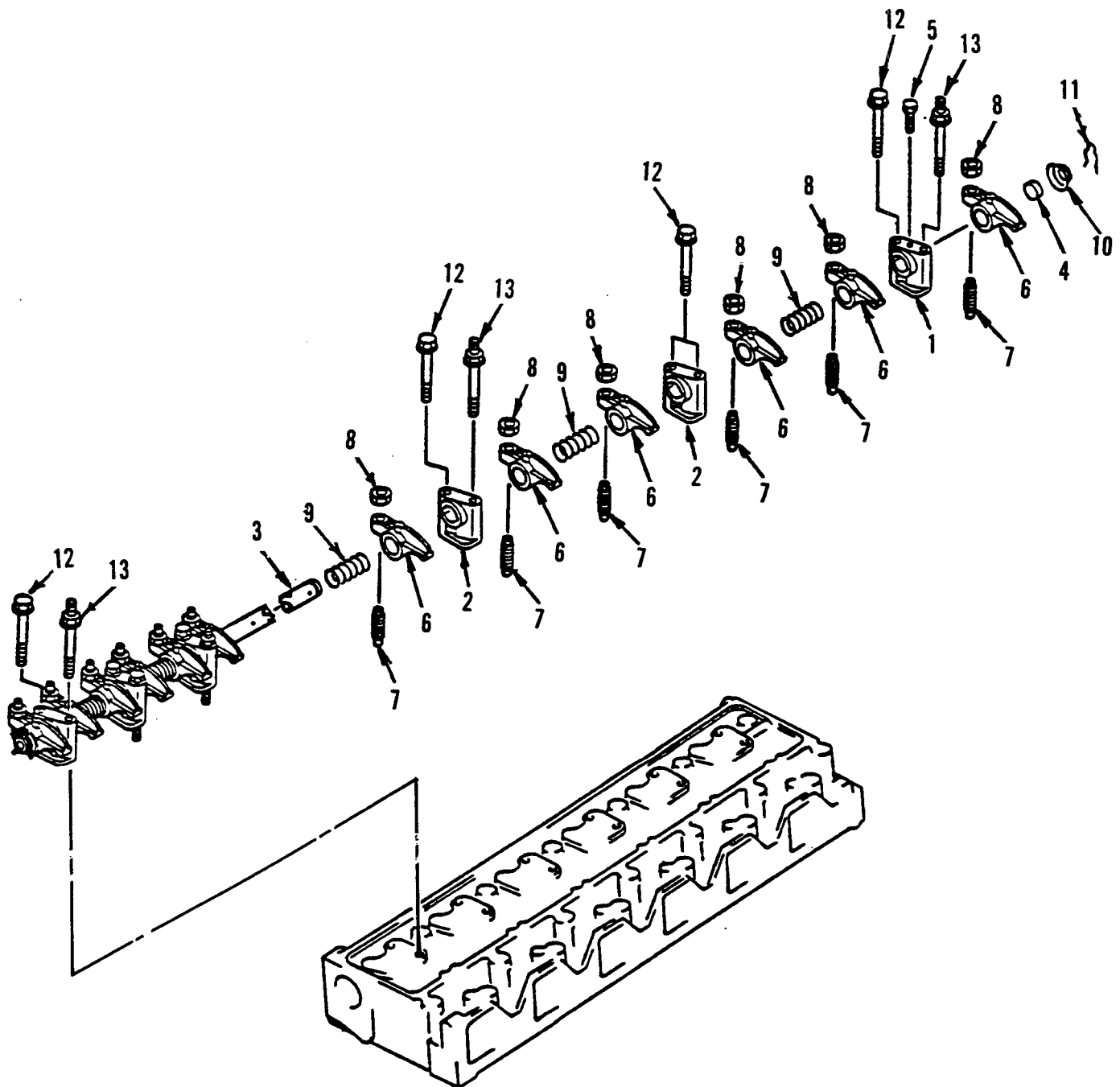


Nozzle Holder

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-0956	6	Holder, Nozzle (Includes Parts Marked *)	186-0983	1	1.075mm	
2	186-0957	2	*Pin	186-0984	1	1.100mm	
3	186-0958	1	*Seat	186-0985	1	1.125mm	
4	186-0959	1	*Spring	186-0986	1	1.150mm	
5			*Shim	186-0987	1	1.175mm	
	186-0960	1	0.500mm	186-0988	1	1.200mm	
	186-0961	1	0.525mm	186-0989	1	1.225mm	
	186-0962	1	0.550mm	186-0990	1	1.250mm	
	186-0963	1	0.575mm	186-0991	1	1.275mm	
	186-0964	1	0.600mm	186-0992	1	1.300mm	
	186-0965	1	0.625mm	186-0993	1	1.325mm	
	186-0966	1	0.650mm	186-0994	1	1.350mm	
	186-0967	1	0.675mm	186-0995	1	1.375mm	
	186-0968	1	0.700mm	186-0996	1	1.400mm	
	186-0969	1	0.725mm	186-0997	1	1.425mm	
	186-0970	1	0.750mm	186-0998	1	1.450mm	
	186-0971	1	0.775mm	186-0999	1	1.475mm	
	186-0972	1	0.800mm	186-1000	1	1.500mm	
	186-0973	1	0.825mm	6 186-1002	1	*Spacer	
	186-0974	1	0.850mm	7 186-1001	1	*Nut, Lock	
	186-0975	1	0.875mm	8 186-1003	1	*Nozzle	
	186-0976	1	0.900mm	9 186-1004	6	Gasket	
	186-0977	1	0.925mm	10 186-1005	6	Seal	
	186-0978	1	0.950mm	11 186-1006	6	Retainer, Nozzle	
	186-0979	1	0.975mm	12 186-1009	6	Bolt, Hex Head	
	186-0980	1	1.000mm	13 186-1007	6	Washer, Flat	
	186-0981	1	1.025mm	14 186-1010	5	Hose, Return - Fuel	
	186-0982	1	1.050mm	15 186-1008	1	Cap, Return - Fuel	

* Parts included in 186-0956 Nozzle Holder Assembly.

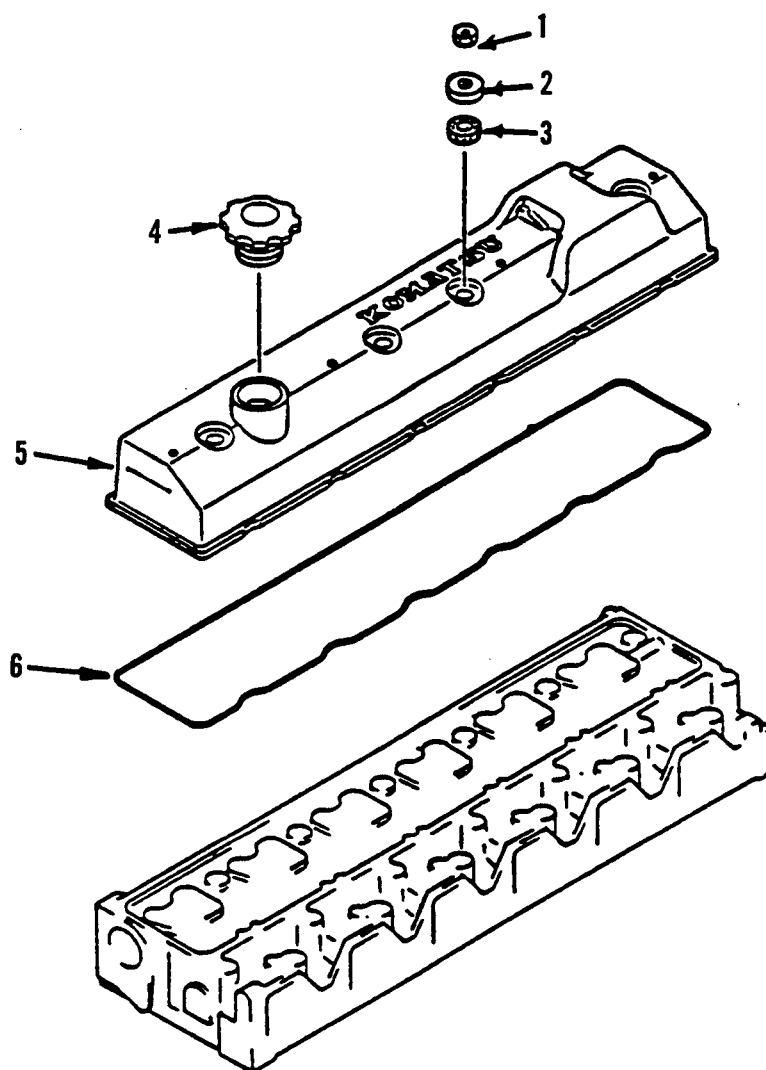
Rocker Arm



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-0707	1	Bracket, Arm - Rocker
2	186-0708	5	Bracket, Arm - Rocker
3	186-0709	1	Shaft, Arm - Rocker
4	186-0596	1	Plug
5	186-0710	1	Bolt, Hex Head
6	186-0711	12	Arm, Rocker
7	186-0712	12	Screw, Adjusting

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	186-0713	12	Nut, Self-Locking - Hex
9	186-0714	5	Spring
10	186-0300	2	Spring
11	186-0301	2	Clip
12	186-0715	8	Bolt, Hex Head
13	186-0716	4	Bolt, Hex Head

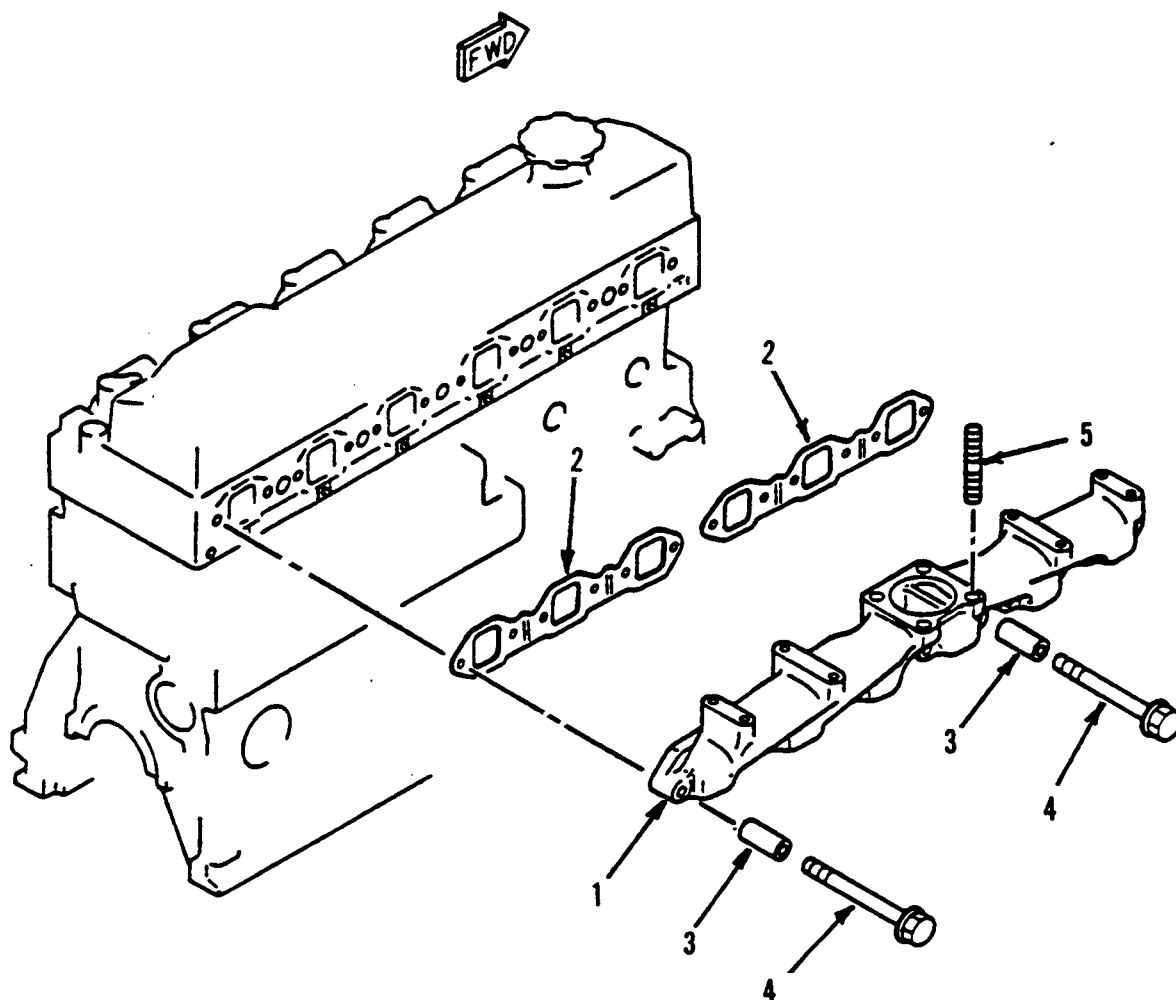
Cylinder Head Cover



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-0218	4	Nut, Hex
2	186-0219	4	Washer, Flat
3	186-0220	4	Washer, Rubber

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	186-0719	1	Cap, Fill - Oil
5	186-0717	1	Cover, Head - Cylinder
6	186-0718	1	Gasket, O-Ring

Exhaust Manifold



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-0728	1	Manifold, Exhaust
2	186-0729	2	Gasket
3	186-0730	12	Spacer

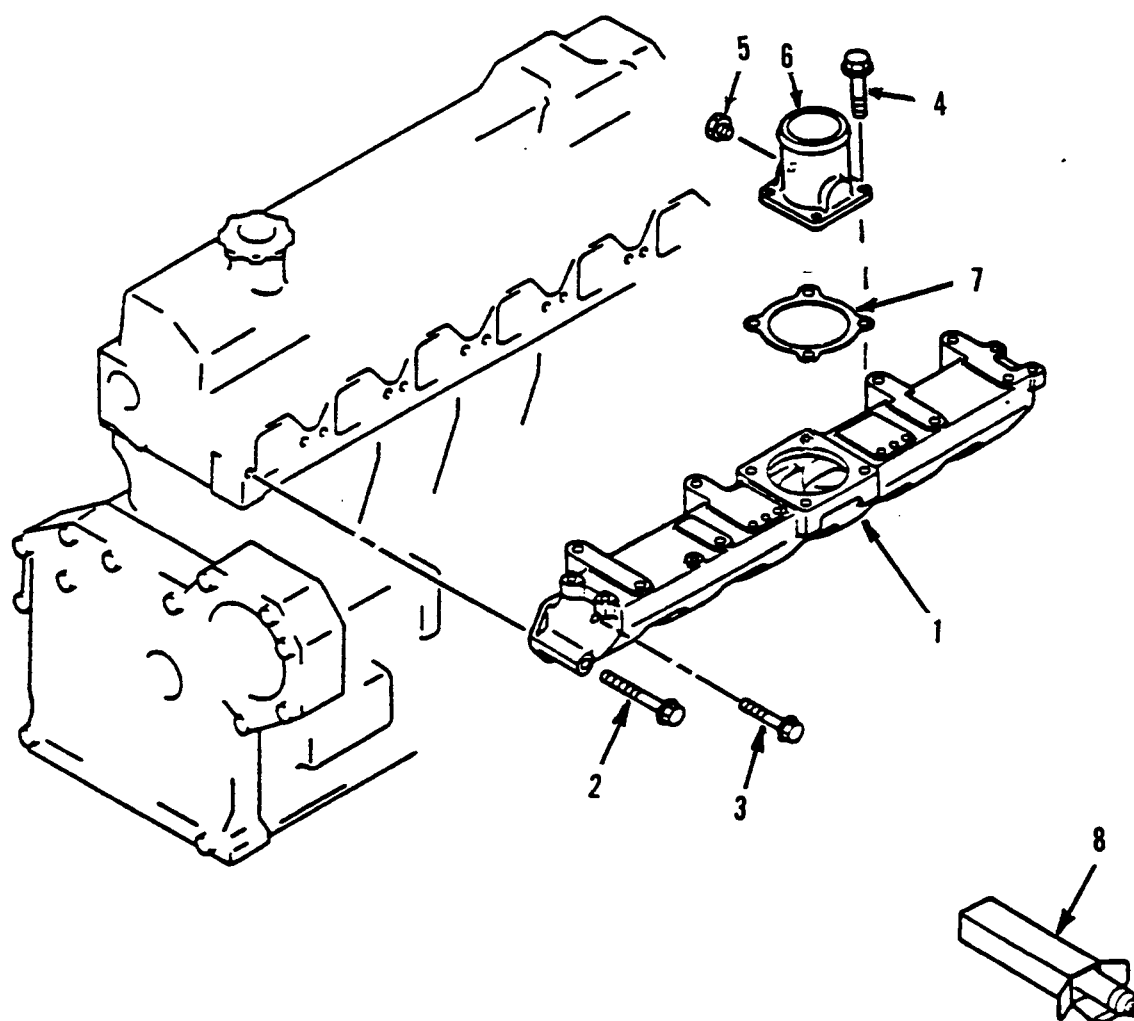
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	186-0731	12	Bolt, Hex Head
5	186-0732	4	Stud

This technical drawing is an exploded view of a mechanical assembly. It features a main cast component at the bottom with various mounting points. Above it, several sub-components are shown in their relative positions, indicated by dashed lines. The components are numbered as follows:

- 1**: A small bracket or cap.
- 2**: A U-bolter or clamping bracket.
- 3**: A long vertical rod or pin.
- 4**: A hex nut.
- 5**: A washer or spacer plate.
- 6**: A threaded rod or bolt.
- 7**: A large, bulbous cylindrical component, possibly a bellows or a large bush.
- 8**: A square plate with a central circular hole.

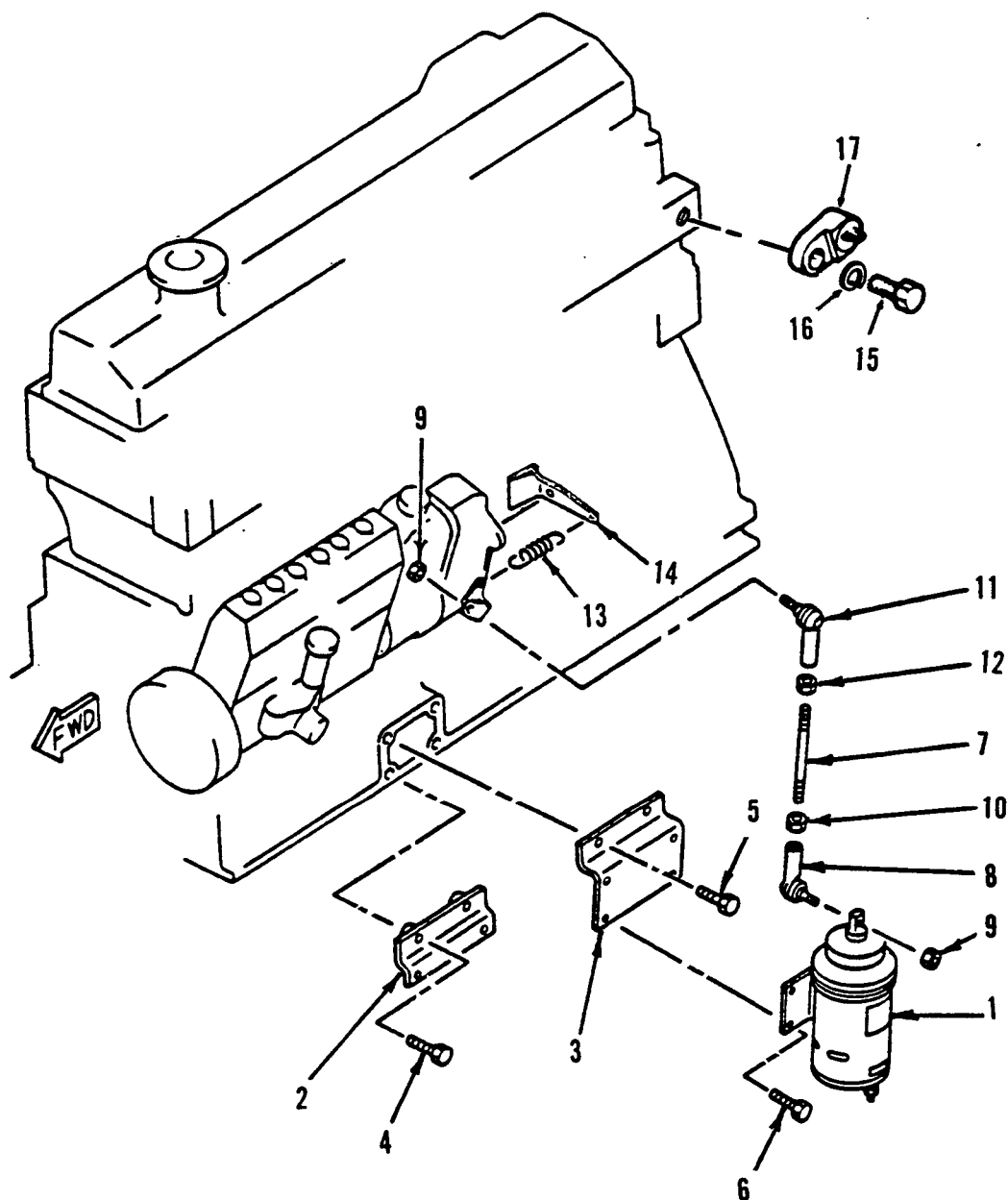
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	850-2010	4	Washer, Lock - Spring (M10)
6	154-2589	1	Adapter, Exhaust
7	155-2081	1	Muffler, Exhaust
8	154-2576	1	Gasket

Intake Manifold'



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-0720	1	Manifold	5	186-0726	1	Plug, Pipe
2	186-0721	1	Bolt, Hex Head	6	186-0723	1	Duct, air
3	186-0722	11	Bolt, Hex Head	7	186-0211	1	Gasket
4	186-0725	4	Bolt, Hex Head	8	186-0727	1	Gasket, Liquid (Tube)

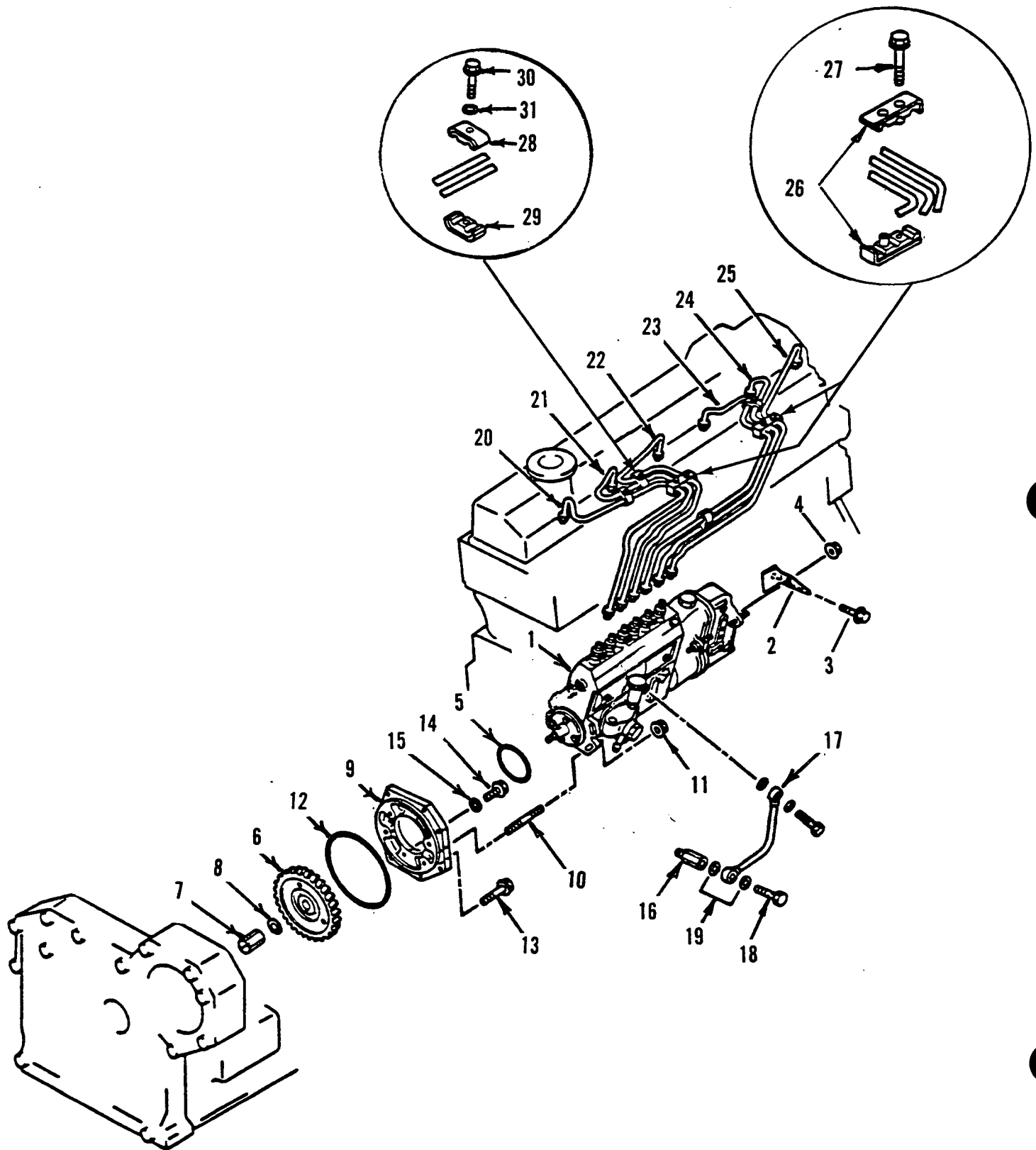
Fuel Control Solenoid



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-0915	1	Solenoid, Electric
2	186-0916	1	Bracket
3	186-0917	1	Bracket, Mounting - Solenoid
4	186-0725	2	Bolt, Hex Head
5	186-0756	2	Bolt, Hex Head
6	186-0918	4	Bolt, Hex Head
7	186-0919	1	Rod, Threaded
8	186-0416	1	Joint, Ball
9	186-0920	2	Nut, Hex
10	186-0088	1	Nut, Hex

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	186-0417	1	Joint, Ball - LH Threads
12	186-0087	1	Nut, Hex - LH Threads
13	186-0921	1	Spring
14	186-0846	1	Bracket
15	718-1055	1	Screw, Cap - Hex Head (M10 x 1.5 x 30mm)
16	850-2010	1	Washer, Lock - Spring (M10)
17	309-0269	1	Switch, Thermostatic - Low Engine Temperature (S4)

Fuel Injection Pump

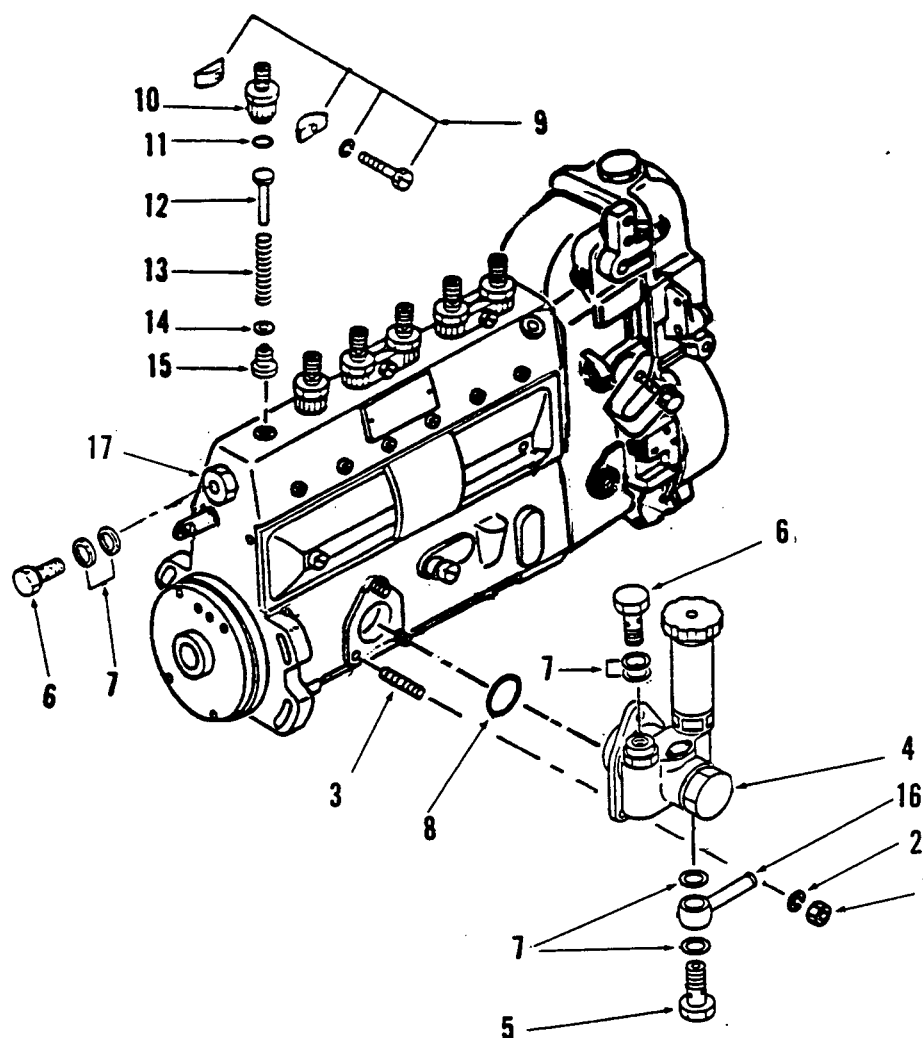


Fuel Injection Pump

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-0845	1	Pump, Injection - Fuel (See Separate Page For Components)	17	186-0859	1	Pipe
2	186-0846	1	Bracket	18	186-0860	1	Bolt, Hollow - Hex Head
3	186-0847	1	Bolt, Hex Head	19	186-0145	4	Gasket
4	186-0848	1	Nut, Hex	20	186-0861	1	Line, Injection - Fuel (No. 1)
5	186-0849	1	Seal, O-Ring	21	186-0862	1	Line, Injection - Fuel (No. 2)
6	186-0850	1	Gear	22	186-0863	1	Line, Injection - Fuel (No. 3)
7	186-0851	1	Nut, Hex	23	186-0864	1	Line, Injection - Fuel (No. 4)
8	186-0852	1	Washer, Lock	24	186-0865	1	Line, Injection - Fuel (No. 5)
9	186-0853	1	Holder	25	186-0866	1	Line, Injection - Fuel (No. 6)
10	186-0854	4	Stud	26	186-0867	4	Clamp
11	186-0855	4	Nut, Hex	27	186-0868	4	Bolt, Hex Head
12	186-0856	1	Seal, O-Ring		186-0869	4	Clip Assembly (Includes Parts Marked *)
13	186-0857	1	Bolt, Hex Head	28	186-0869	1	*Clamp
14	186-0842	1	Bolt, Hex Head	29	186-0869	1	*Clamp
15	186-0144	1	Gasket	30	186-0872	1	*Bolt, Hex Head
16	186-0858	1	Connector	31	186-0105	1	*Washer, Flat

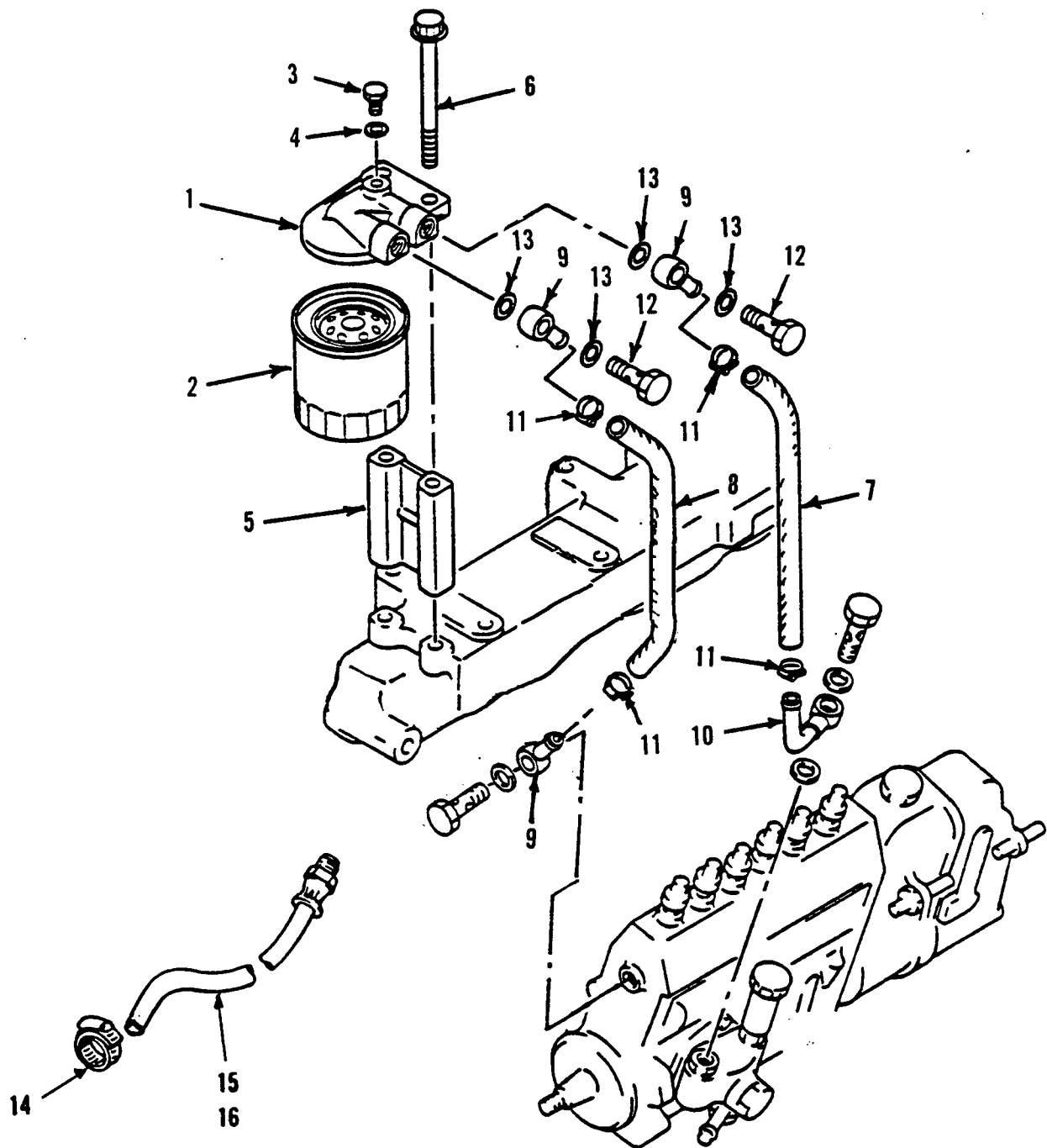
* Parts included in 186-0869 Clip Assembly.

Fuel Injection Pump Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-1018	3	Nut, Hex	10	186-1012	6	Holder
2	186-1017	3	Washer, Lock - Spring	11	186-1013	6	Seal, O-Ring
3	186-1016	3	Stud	12	186-1114	6	Plunger
4	186-1107	1	Pump, Fuel	13	186-1014	6	Spring
5	186-1023	1	Bolt, Hollow - Hex	14	186-1104	6	Gasket
6	186-1021	2	Bolt, Hollow - Hex	15	186-1015	6	Valve, Delivery
7	186-1022	6	Gasket	16	186-1024	1	Fitting, Hose - Banjo
8	186-1019	1	Seal, O-Ring	17	186-1020	1	Adapter, Line - Fuel
9	186-1011	3	Clamp Assembly				

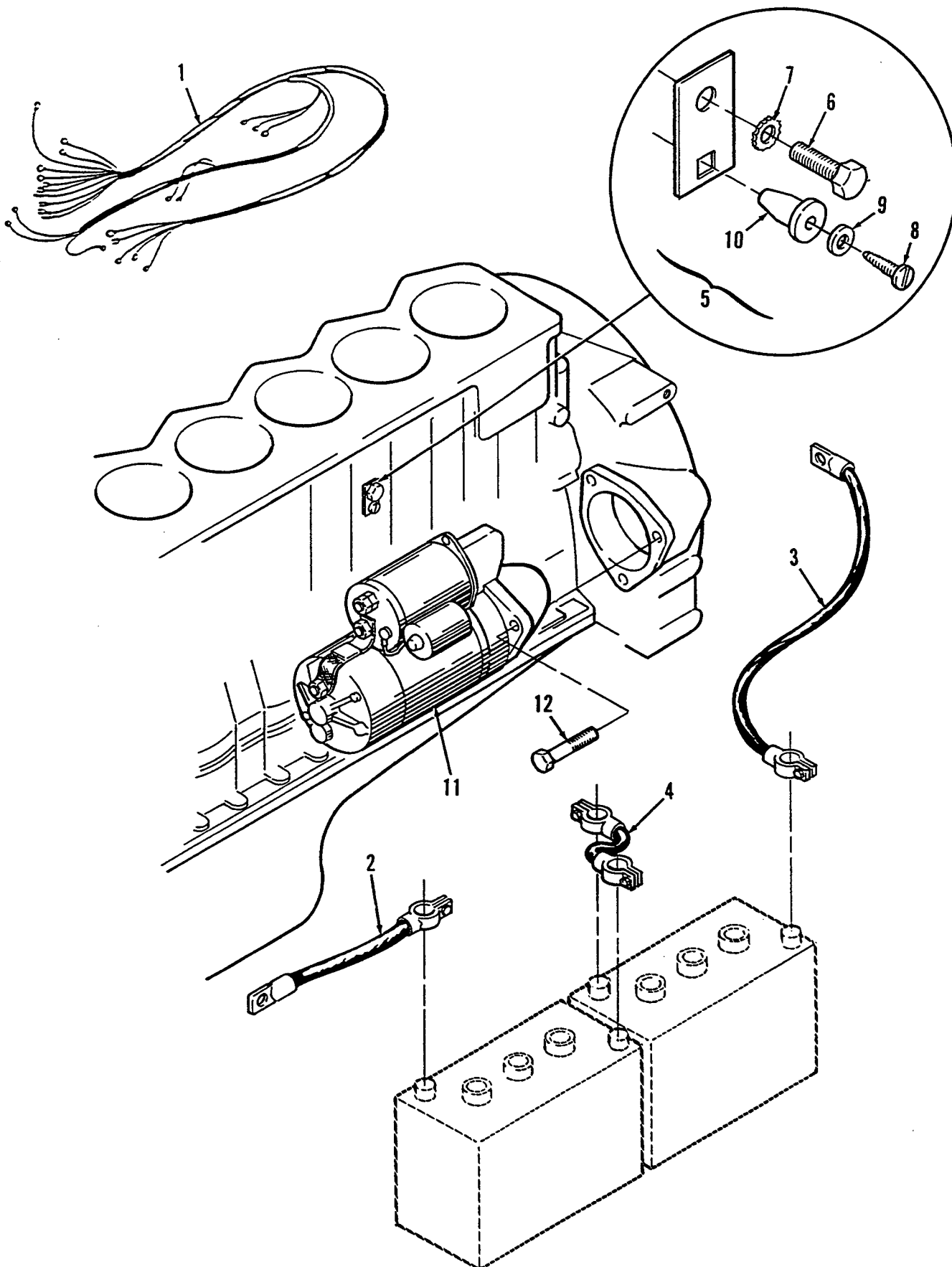
Fuel Filter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-0873	1	Adapter, Filter - Fuel
2	186-0874	1	Element, Filter - Fuel
3	186-0875	1	Plug, Pipe - Hex
4	186-0144	1	Gasket
5	186-0876	1	Spacer
6	186-0877	2	Bolt, Hex Head
7	186-1103	1	Hose
8	186-0878	1	Hose

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	186-0880	3	Fitting, Hose - Banjo
10	186-0881	1	Fitting, Hose - Banjo
11	186-0882	4	Clamp, Hose
12	186-0161	2	Bolt, Hollow - Hex
13	186-0147	4	Gasket
14	503-0170	2	Clamp, Hose
15	501-0501	1	Line, Fuel - Flexible (30")
16	501-0502	1	Line, Fuel - Flexible (60")

Starter

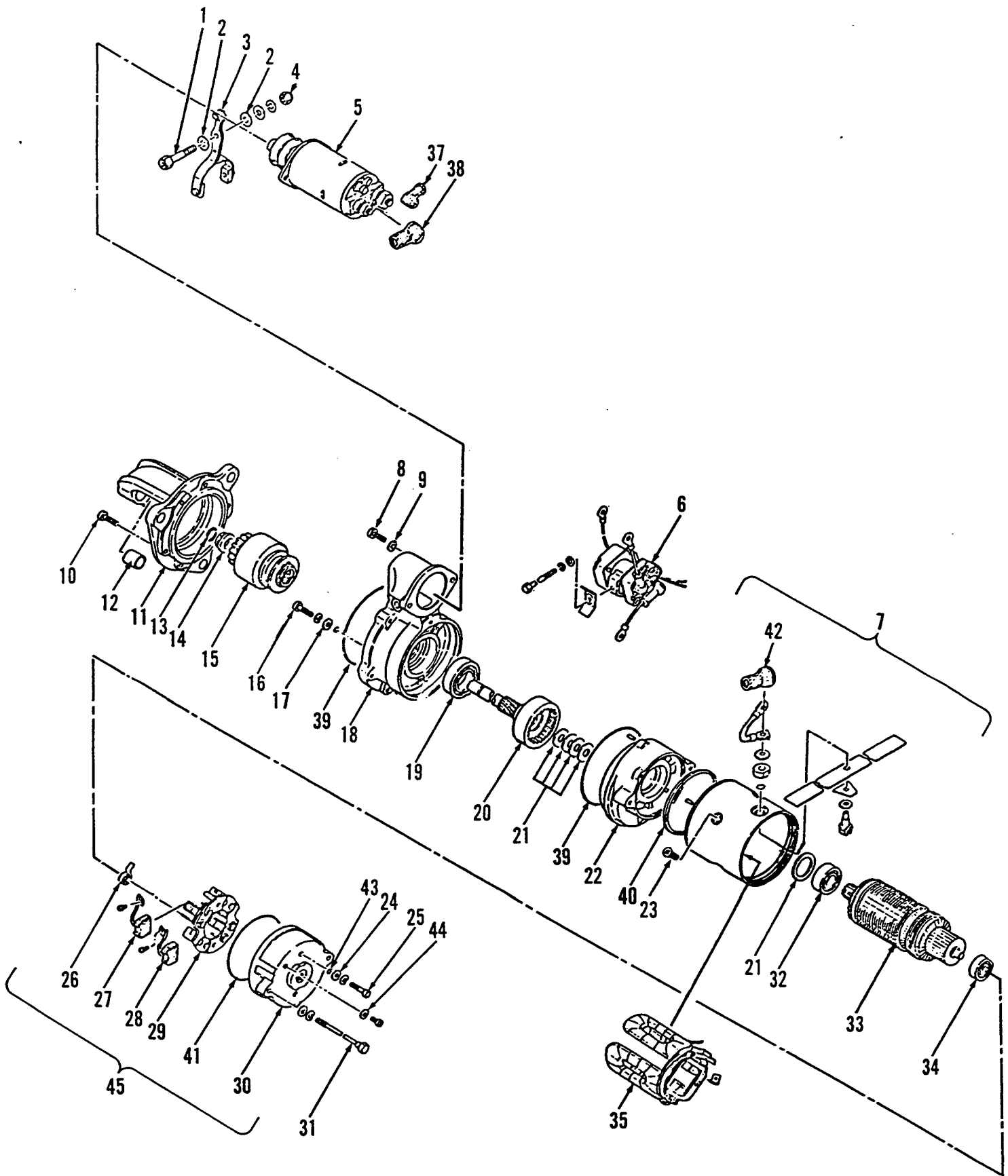


Starter

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-1873	1	Harness, Wiring - Control To Engine	7	856-2010	2	Washer, Lock - EIT (M10)
2	416-0619	1	Cable, Battery (18")	8	809-0035	1	*Screw, Thread Cutting - Round Head (#8)
3	416-0618	1	Cable, Battery (42")	9	508-0015	1	*Washer, Insul - Fiber (#8)
4	416-0446	1	Cable, Battery (Jumper)	10	870-0196	1	*Nut, Insulating (#8)
5	332-1292	1	Terminal Assembly (Includes Parts Marked *)	11	186-2095	1	Starter (See Separate Page For Components)
6	718-1052	1	Screw, Cap - Hex Head (M10 x 1.5 x 16mm)	12	186-2127	3	Screw, Cap - Hex Head

* Parts included in 332-1292 Terminal Assembly.

Starter Components

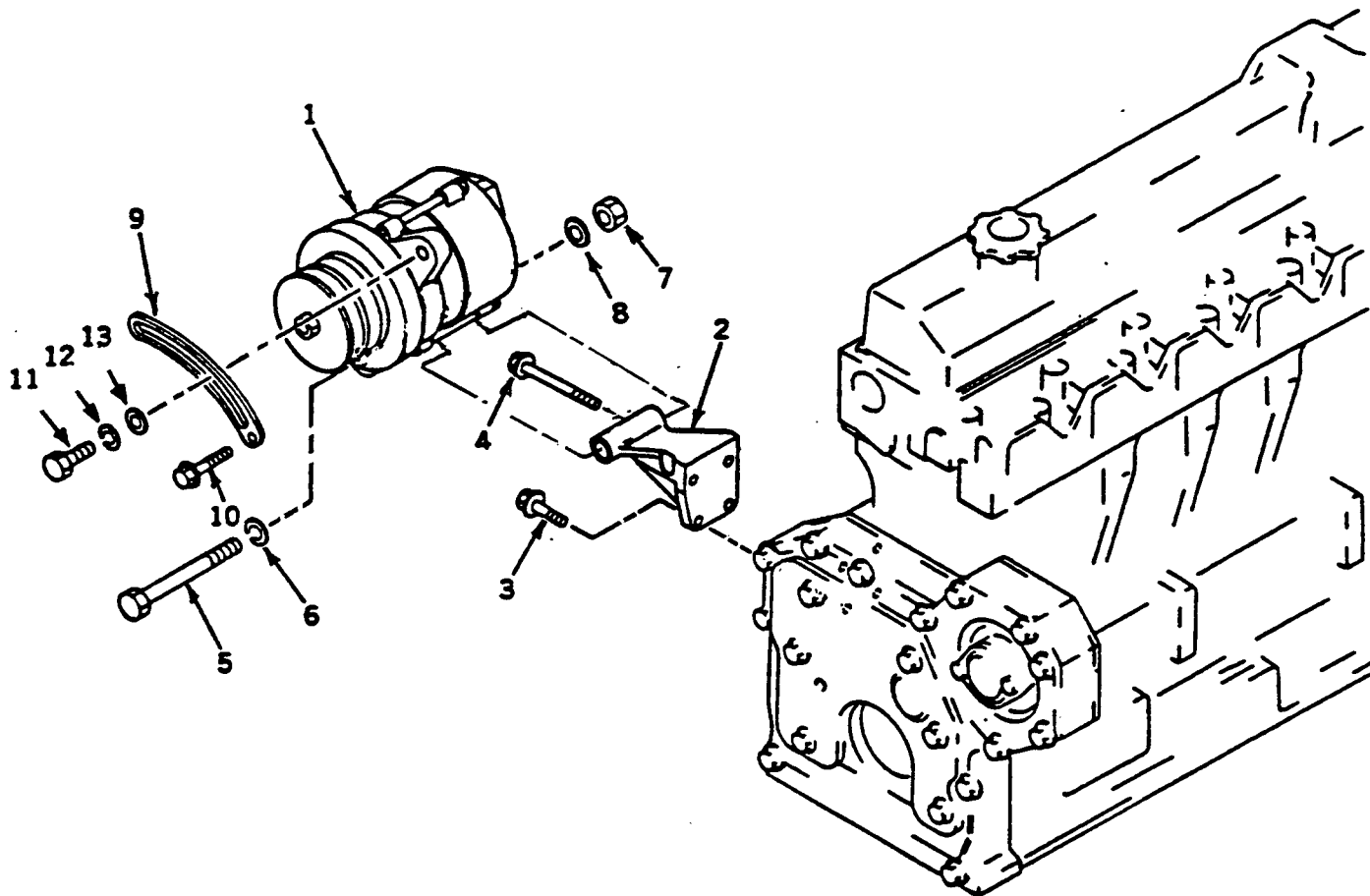


Starter Components

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-0047	1	Pin, Lever - Threaded	24	186-0625	2	Washer, Flat
2	186-0030	2	Seal	25	186-0626	2	Bolt, Hex Head
3	186-2128	1	Lever, Shift	26	186-0053	4	Spring
4	186-0599	1	Nut, Hex	27	186-0051	2	Brush
5	186-0476	1	Solenoid	28	186-0675	2	Brush
6	186-0475	1	Switch	29	186-0020	1	Holder, Brush
7	186-2129	1	Terminal Assembly (Does Not Include Rubber Cap)	30	186-0077	1	Housing, Rear
8	186-0027	2	Bolt, Hex Head	31	186-0021	2	Bolt, Hex Head
9	186-0665	1	Washer, Lock - Spring	32	186-2138	1	Bearing, Ball
10	186-0941	6	Bolt, Hex Head	33	186-2137	1	Armature
11	186-2130	1	Housing, Front	34	186-2139	1	Bearing, Ball
12	186-0075	1	Bushing, Sleeve	35	186-0045	1	Coil, Field
13	186-0666	1	Ring, Retaining	36	186-2140	1	Seal Set, O-Ring (Includes Parts Marked *)
14	186-0667	1	Stop, Pinon	37	186-0042	1	*Cap, Rubber
15	186-0944	1	Clutch	38	186-0612	2	*Cap, Rubber
16	186-0668	3	Bolt, Hex Head	39	186-0036	2	*Seal, O-Ring
17	186-0628	3	Washer, Flat	40	186-0682	1	*Gasket
18	186-2131	1	Bracket, Center	41	186-0683	1	*Seal, O-Ring
19	186-2135	1	Bearing, Ball	42	186-0041	1	*Cap, Rubber
20	186-2133	1	Shaft	43	186-0680	2	*Seal, O-Ring
21	186-2141	1	Washer Set, Thrust	44	186-0610	1	*Seal, Washer
22	186-0672	1	Bracket, Center	45	186-2136	1	Bracket Assembly, Rear (Includes Rear Housing)
23	186-0028	4	Screw, Flat Head				

* Parts included in 186-2140 O-Ring Seal Set.

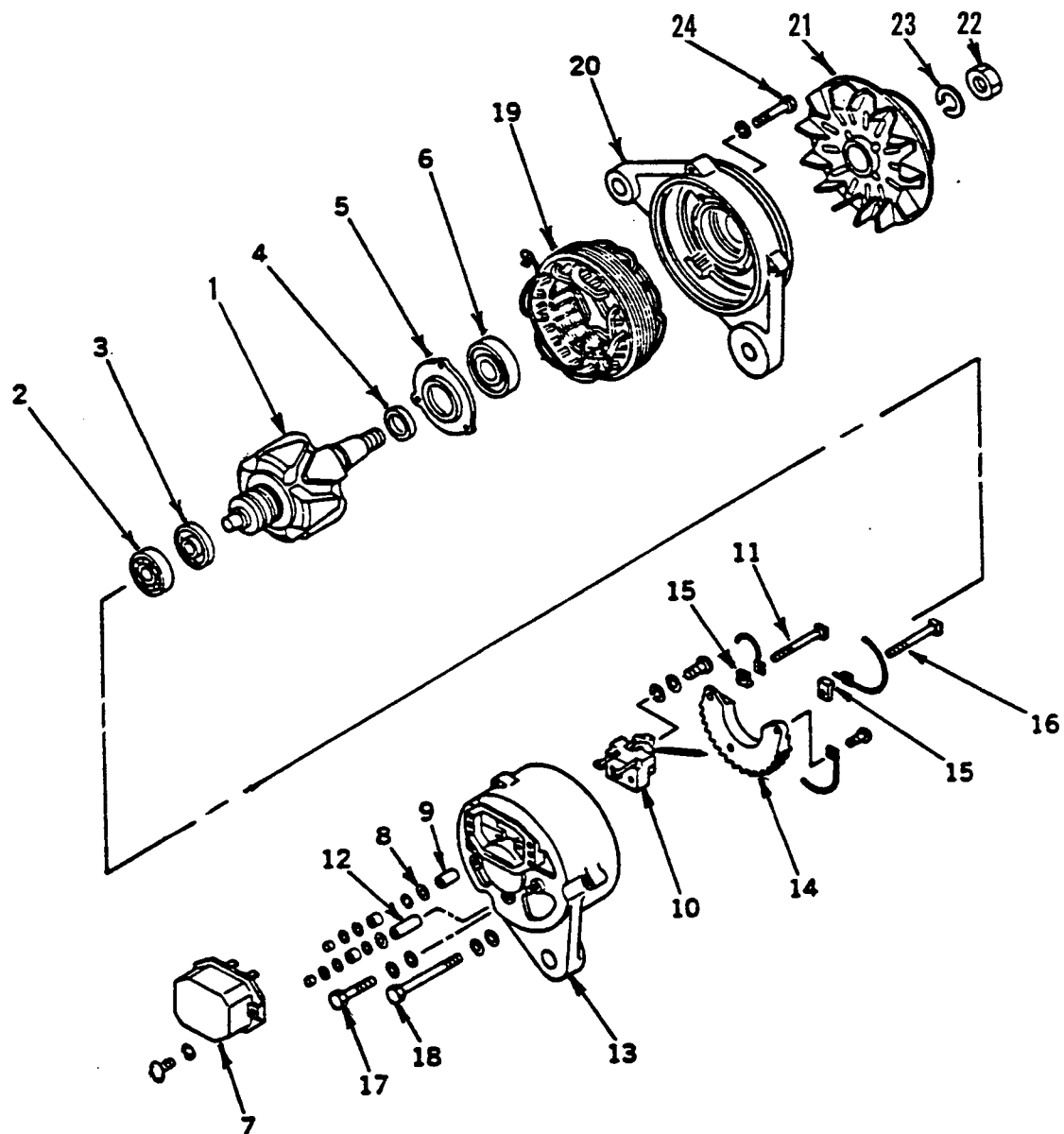
Alternator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-2092	1	Alternator
2	186-0909	1	Bracket, Mounting
3	186-0910	3	Bolt, Hex Head
4	186-0911	1	Bolt, Hex Head
5	186-0184	1	Bolt, Hex Head
6	186-0098	1	Washer, Lock - Spring
7	186-0091	1	Nut, Hex

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	186-0506	1	Washer, Flat
9	186-0912	1	Plate, Adjusting
10	186-0763	1	Bolt, Hex Head
11	186-0085	1	Bolt, Hex Head
12	186-0097	1	Washer, Lock - Spring
13	186-0109	1	Washer, Flat

Alternator Components (8-Pole)

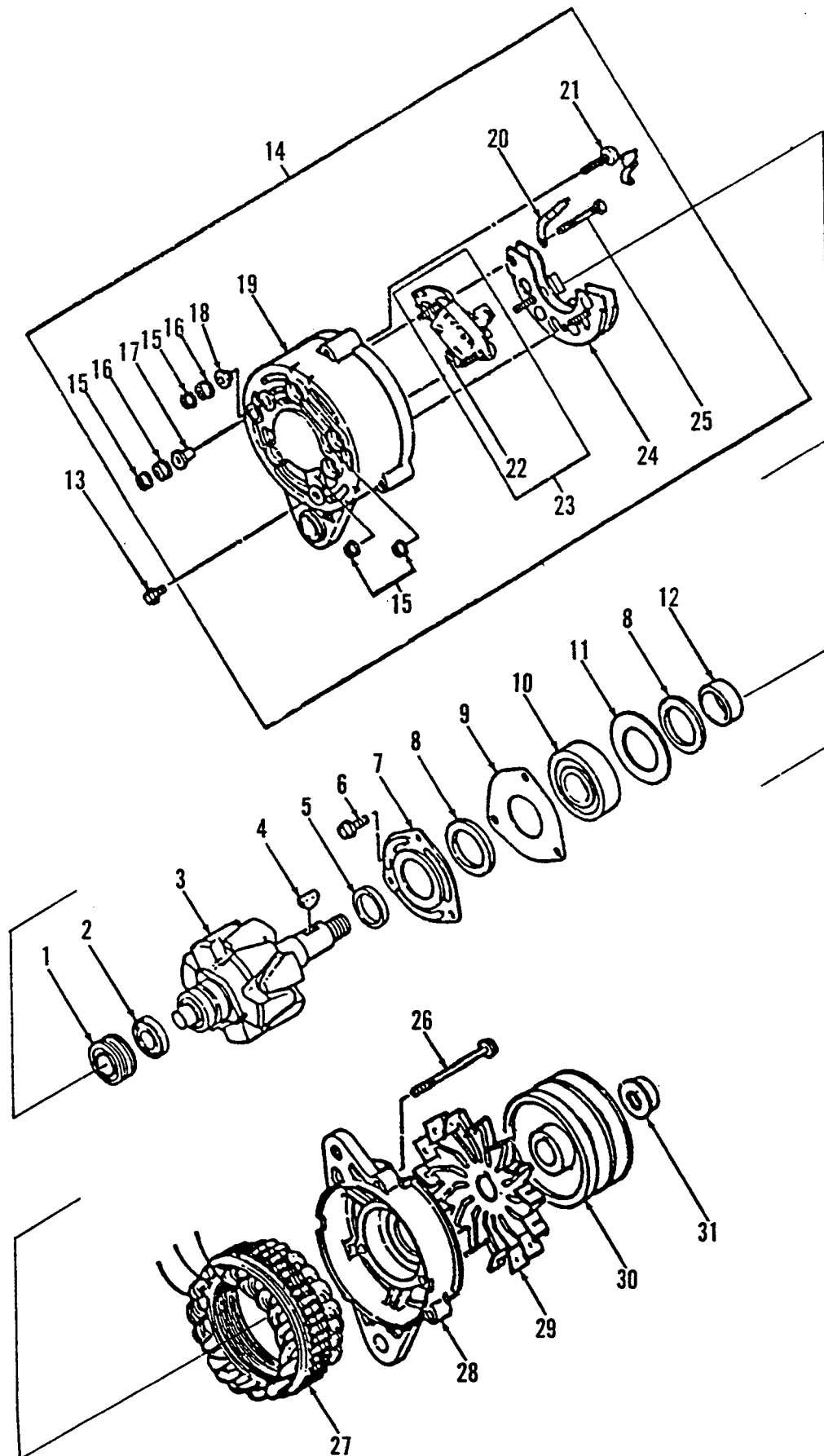


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-0922	1	Rotor Assy (Includes Parts Marked *)
2	186-0032	1	*Bearing, Ball
3	186-0924	1	*Retainer
4	186-0925	1	*Collar
5	186-0926	1	*Retainer
6	186-0033	1	*Bearing, Ball
7	186-0928	1	Regulator, Voltage
	186-0024	1	Housing Assembly - Rear (Includes Parts Marked +)
8	186-0929	1	+Washer, Insulator
9	186-0930	1	+Tube, Insulating
10	186-0070	1	+Holder, Brush
11	186-0931	1	+Bolt, Square Head

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12	186-0932	1	+Tube, Insulating
13	186-0933	1	+Bracket, Rear
14	186-0934	1	+Diode
15	186-0935	2	+Bushing, Insulator
16	186-0936	1	+Bolt, Square Head
17	186-0937	1	+Bolt, Square Head
18	186-0019	3	Bolt, Hex Head
19	186-0938	1	Stator
20	186-0069	1	Bracket, Front
21	186-0023	1	Pulley
22	186-0493	1	Nut, Hex
23	186-0494	1	Washer, Lock - Spring
24	186-0939	1	Screw, Cap - Hex Head

* Parts included in 186-0922 Rotor Assembly.
+ Parts included in 186-0024 Housing Assembly.

Alternator Components (12-Pole)

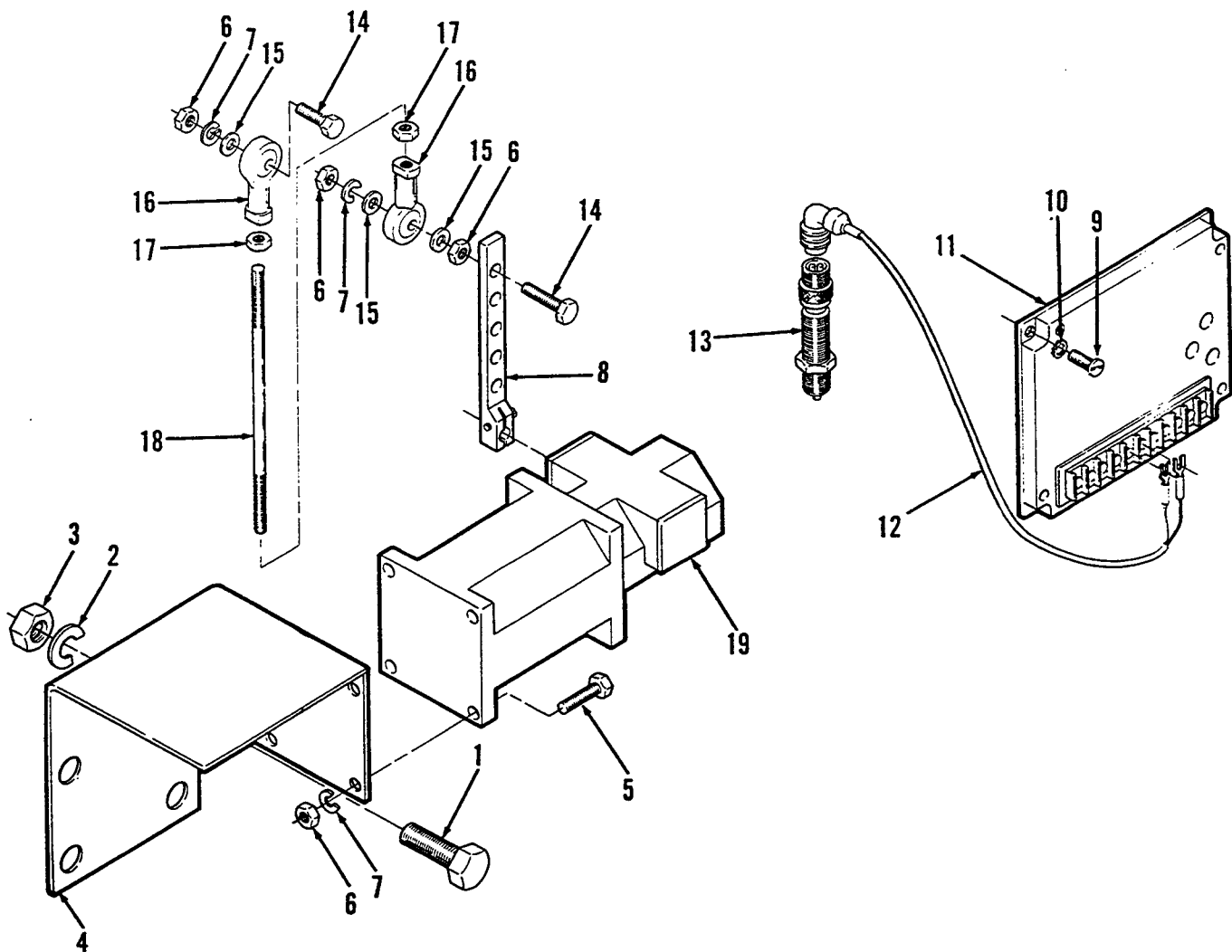


Alternator Components (12-Pole)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-2097	1	Bearing, Ball	17	186-2110	1	*Bushing, Insulating
2	186-2098	1	Retainer	18	186-2111	1	*Bushing, Insulating
3	186-2099	1	Rotor	19	186-2112	1	*Bracket, Rear
4	186-1645	1	Key, Woodruff	20	186-2113	1	*Bar, Connect
5	186-2100	1	Collar	21	186-2114	1	*Terminal
6	186-2101	3	Bolt	22	186-2115	2	*Holder, Brush
7	186-2102	1	Retainer	23	186-2116	1	*Regulator Assembly (Includes Brush Holder)
8	186-1655	2	Packing	24	186-2117	1	*Rectifier Assembly
9	186-1653	1	Retainer	25	186-2118	1	*Bolt
10	186-2103	1	Bearing, Ball	26	186-2119	3	Bolt
11	186-2104	1	Retainer	27	186-2120	1	Stator Assembly
12	186-2105	1	Collar	28	186-2121	1	Bracket, Front
13	186-2106	1	Bolt	29	186-2122	1	Fan
14	186-2107	1	Bracket Assembly, Rear (Includes Parts Marked *)	30	186-2123	1	Pulley
15	186-2108	6	*Nut	31	186-2124	1	Nut
16	186-2109	2	*Nut				

* Parts included in 186-2107 Rear Bracket Assembly.

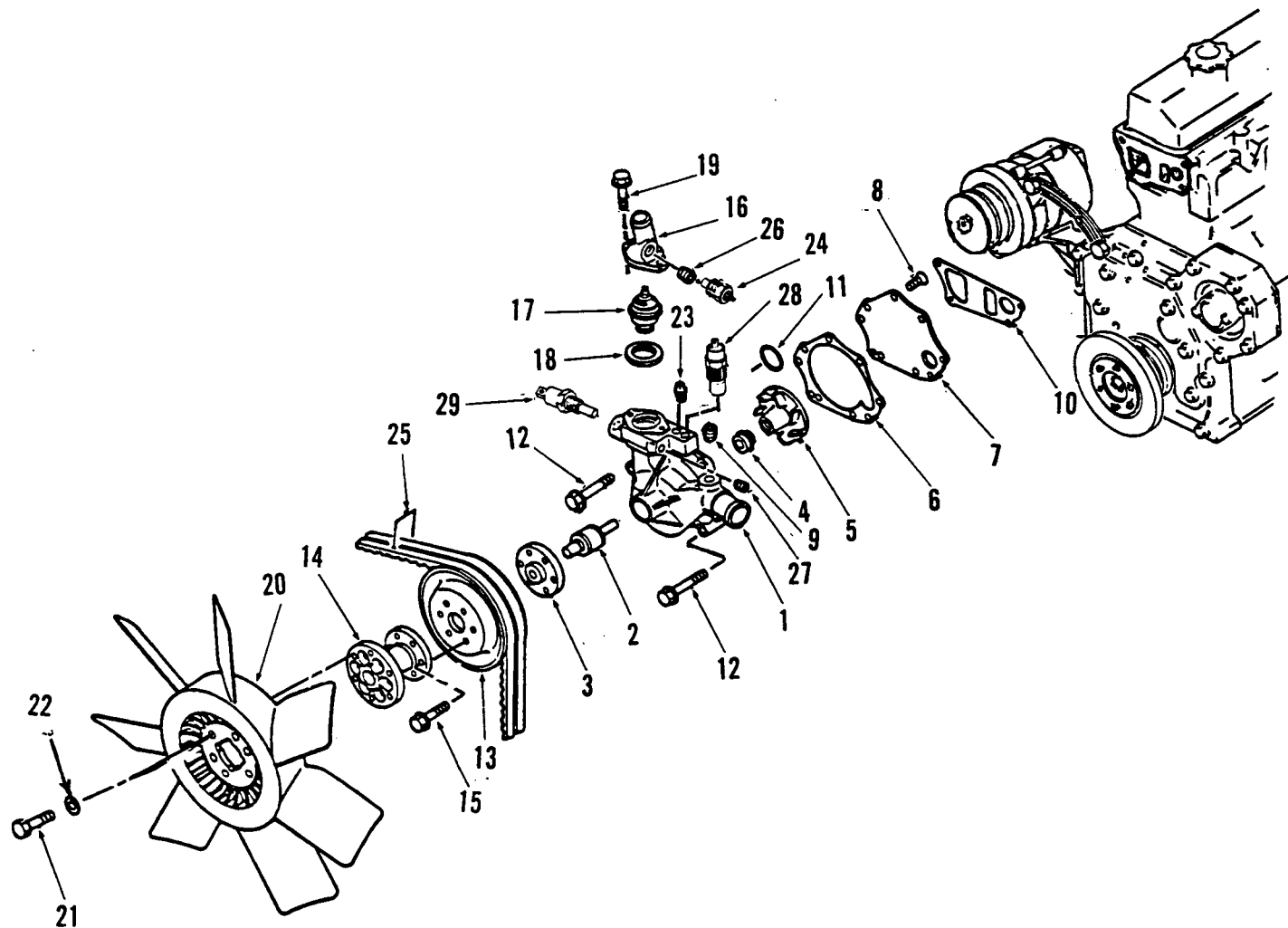
Electric Governor,



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0092	3	Screw, Cap - Hex Head (1/2 - 13 x 1-1/2")
2	850-0060	3	Washer, Lock (1/2)
3	862-0016	3	Nut, Hex (1/2)
4	150-2118	1	Bracket, Mounting - Governor
5	800-2037	4	Screw, Cap - Hex Head (M6 x 1 x 35mm)
6	860-2007	7	Nut, Hex (M6)
7	850-2006	6	Washer, Lock (M6)
8	150-2145	1	Lever, Actuator
9	813-0103	4	Screw (#10 - 32 x 3/4")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	870-0131	4	Nut, Hex - ET (#10 - 32)
11	151-0611	1	Control, Governor
12	338-1765-02	1	Cable, Pickup - Magnetic
13	151-0603-02	1	Sensor, Speed - Magnetic
14	800-2035	2	Screw, Cap - Hex (M6 x 1 x 25mm)
15	526-0021	3	Washer, Flat (1/4)
16	150-2120	2	End, Rod
17	115-0025	2	Nut, Hex (1/4 - 28)
18	520-0960	1	Stud
19	151-0612	1	Actuator, Governor

Cooling Fan, And Water Pump

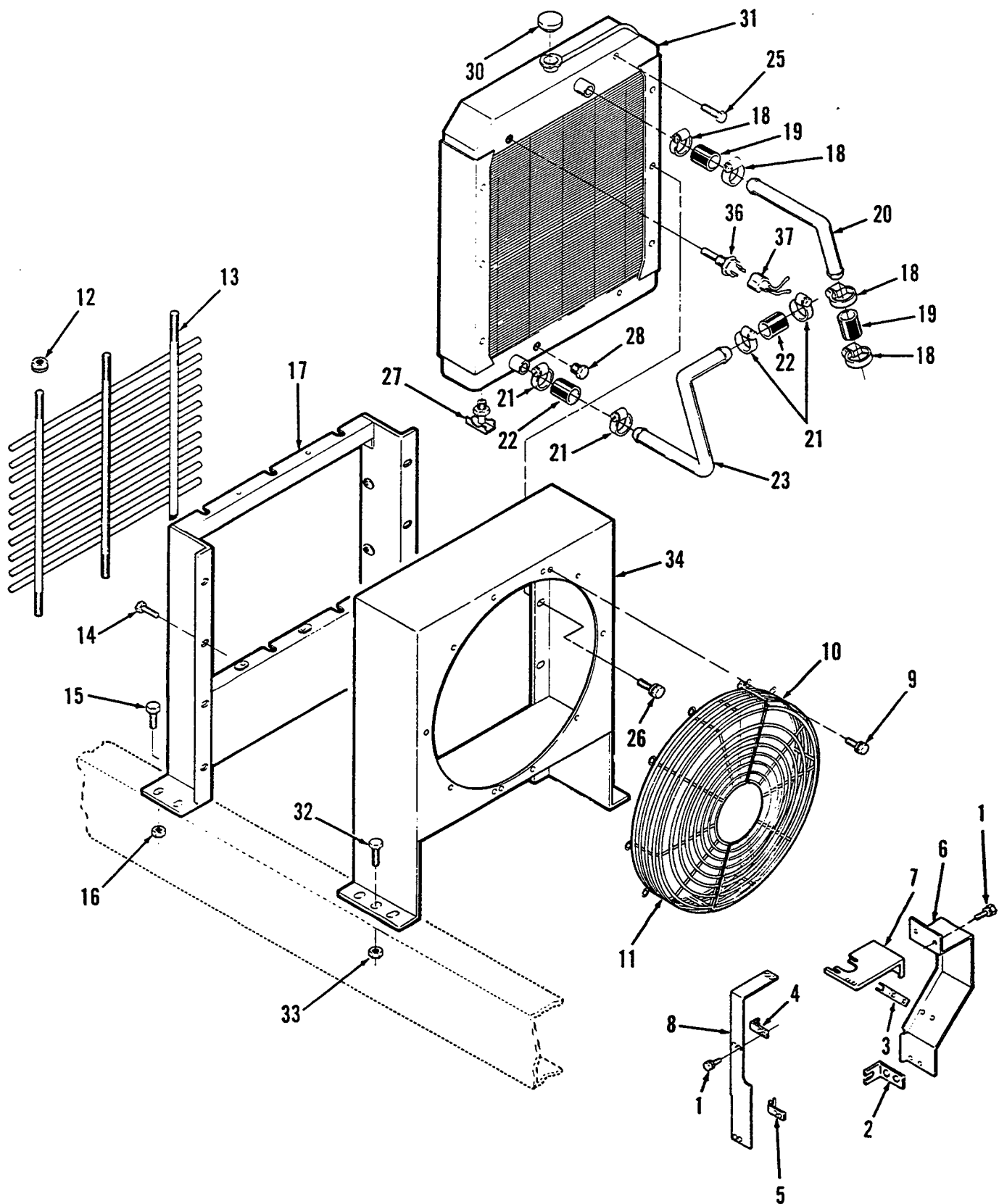


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-0885	1	Pump, Water (Includes Parts Marked *)
2	186-1025	1	*Shaft
3	186-1026	1	*Spacer
4	186-0886	1	*Seal
5	186-0887	1	*Impeller
6	186-0888	1	*Cover
7	186-0889	1	*Gasket
8	186-0890	5	*Screw, Cap - Hex Head
9	186-0488	1	Plug, Pipe
10	186-0891	1	Gasket
11	186-0892	1	Seal, O-Ring
12	186-0723	4	Bolt, Hex Head
13	186-0894	1	Pulley
14	186-0896	1	Spacer
15	186-0898	6	Bolt, Hex Head

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
16	186-0900	1	Housing, Thermostat
17	186-0901	1	Thermostat
18	186-0902	1	Gasket
19	186-0827	2	Bolt, Hex Head
20	186-0903	1	Fan
21	186-0756	6	Bolt, Hex Head
22	186-0904	6	Washer
23	186-0117	1	Plug, Pipe
24	193-0318	1	Sender, Temperature - Water
25	186-0906	1	Belt Set, V
26	186-0907	1	Plug, Pipe
27	186-0117	1	Plug, Pipe
28	309-0521	1	Switch, Thermostatic - Pre Hi Engine Coolant Temp (S6)
29	309-0522	1	Thermostat, Hi Water

* Parts included in 186-0885 Water Pump.

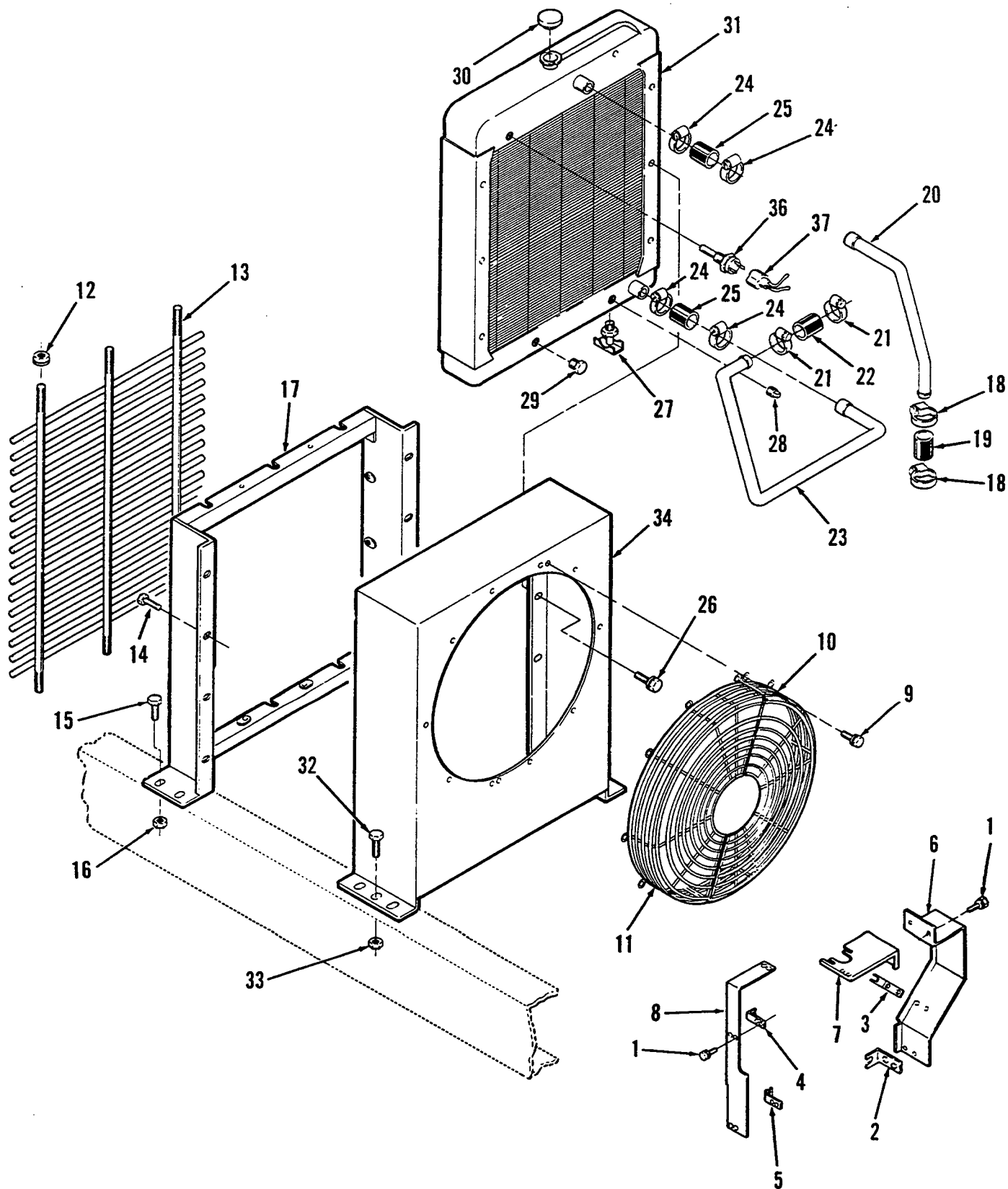
Cooling System (Standard)



Cooling System (Standard)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0009	12	Screw, Self-Locking - Hex Washer Hd (1/4 - 20 x 3/8")	18	503-0398	4	Clamp, Hose
2	130-2677	1	Bracket, Support - Belt Guard and Alternator Guard	19	503-1390-01	2	Hose, Rubber
3	130-2676	1	Bracket, Support - Belt Guard and Alternator Guard	20	130-2672	1	Tube, Inlet - Coolant
4	130-2674	1	Bracket, Support - Belt Guard	21	503-0365	4	Clamp, Hose
5	130-2675	1	Bracket, Support - Belt Guard	22	503-1391-01	2	Hose, Rubber
6	191-1685	1	Guard, Belt (Less Brackets)	23	130-2673	1	Tube, Outlet - Coolant
7	130-2680	1	Guard, Belt (Center)	25	502-0153	3	Plug, Pipe - Hex Head
8	130-2679	1	Guard, Belt (Less Brackets)	26	821-0029	10	Screw, Self-Locking - Hex Washer Hd (3/8 - 16 x 3/4")
9	821-0018	9	Screw, Self-Locking - Hex Washer Hd (1/4 - 20 x 5/8")	27	504-0028	1	Valve, Drain
10	130-2660-02	1	Guard, Fan (Left Side)	28	502-0155	1	Plug, Pipe - Square Head
11	130-2660-01	1	Guard, Fan (Right Side)	30	130-0523	1	Cap, Radiator
12	870-0281	6	Nut, Self-Locking - Hex Washer Head (3/8 - 16)		130-2344	1	Large Neck
13	130-2614	1	Grille	31	130-2667	1	Small Neck
14	821-0010	8	Screw, Self-Locking - Hex Washer Hd (1/4 - 20 x 1/2")	32	821-0029	6	Radiator (Includes Cap)
15	821-0029	4	Screw, Self-Locking - Hex Washer Hd (3/8 - 16 x 3/4")	33	870-0281	6	Screw, Self-Locking - Hex Washer Hd (3/8 - 16 x 3/4")
16	870-0281	4	Nut, Self-Locking - Hex Washer Head (3/8 - 16)	34	130-2669	1	Nut, Self-Locking - Hex Washer Head (3/8 - 16)
17	130-2663	1	Guard, Radiator (Less Grille)	35	130-2671	1	Shroud, Fan
				36	193-0322	1	Bracket, Guard - Fan
				37	338-1919	1	Switch, Level - Lo Coolant Harness, Wiring - Lo Coolant Level

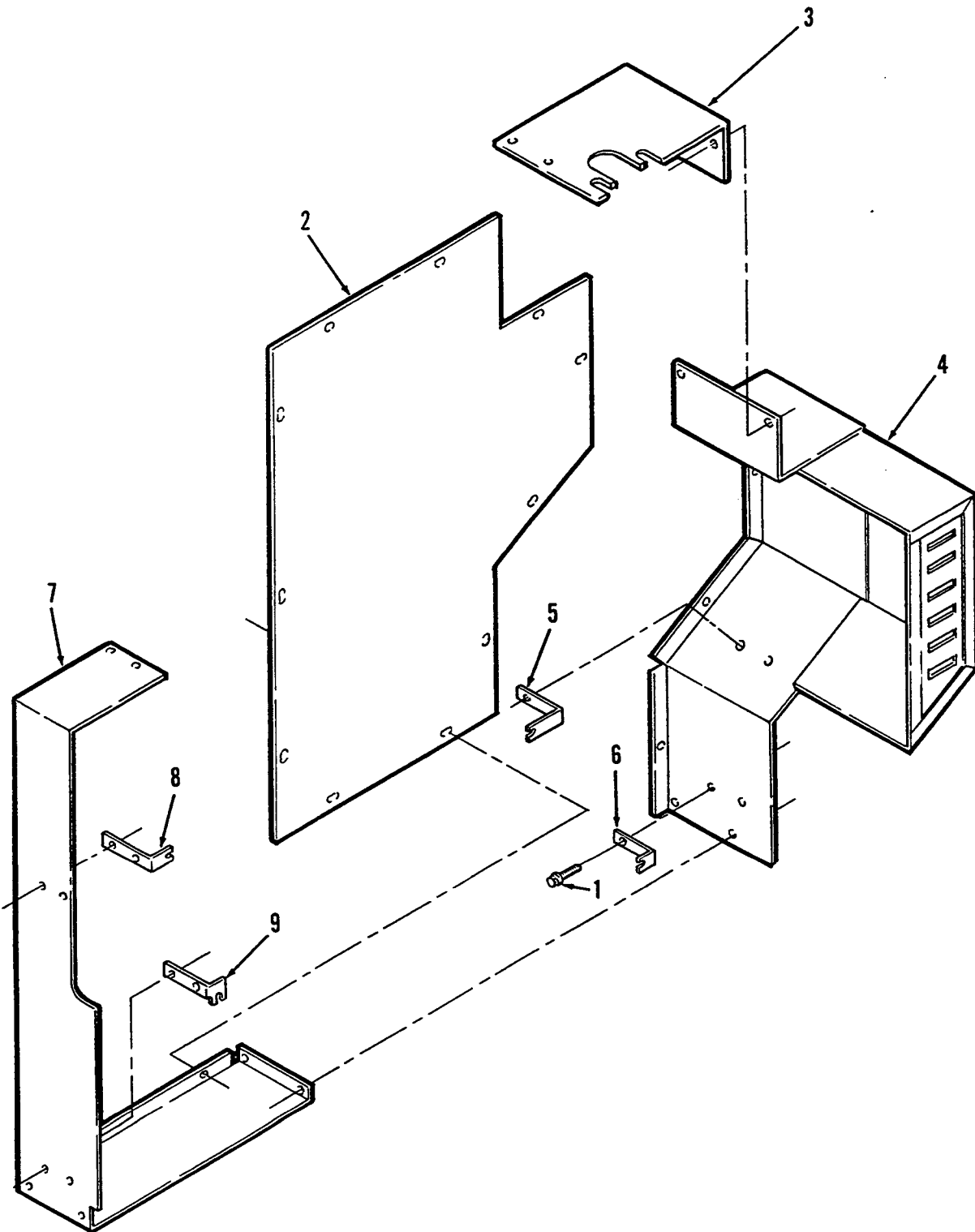
Cooling System (Hi Temperature)



Cooling System (Hi Temperature)

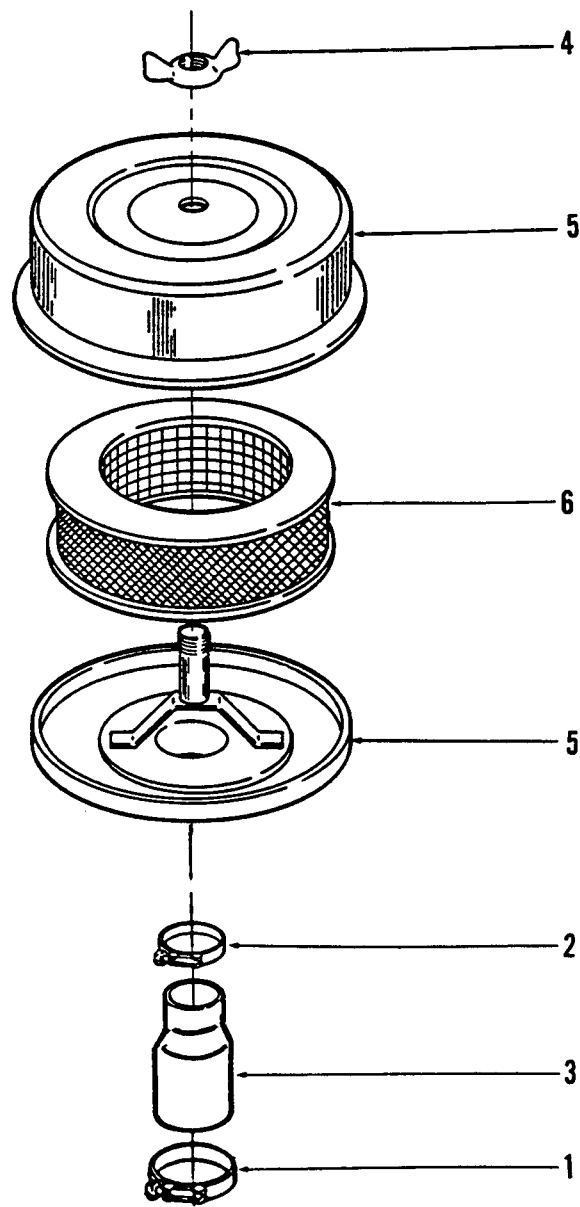
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0009	12	Screw, Self-Locking - Hex Washer Hd (1/4 - 20 x 3/8")	19	503-1390-01	1	Hose, Rubber
2	130-2677	1	Bracket, Support - Belt Guard and Alternator Guard	20	130-2696	1	Tube, Inlet - Coolant
3	130-2676	1	Bracket, Support - Belt Guard and Alternator Guard	21	503-0365	2	Clamp, Hose
4	130-2674	1	Bracket, Support - Belt Guard	22	503-1391-01	1	Hose, Rubber
5	130-2675	1	Bracket, Support - Belt Guard	23	130-2697	1	Tube, Outlet - Coolant
6	191-1685	1	Guard, Belt (Less Brackets)	24	503-0354	4	Clamp, Hose
7	130-2680	1	Guard, Belt (Center)	25	503-1380-01	2	Hose, Rubber
8	130-2679	1	Guard, Belt (Less Brackets)	26	821-0029	10	Screw, Self-Locking - Hex Washer Hd (3/8 - 16 x 3/4")
9	821-0018	9	Screw, Self-Locking - Hex Washer Hd (1/4 - 20 x 5/8")	27	504-0003	1	Valve, Drain
10	130-2660-02	1	Guard, Fan (Left Side)	28	502-0155	1	Plug, Pipe - Square Head
11	130-2660-01	1	Guard, Fan (Right Side)	29	502-0153	3	Plug, Pipe - Hex Head
12	870-0281	6	Nut, Self-Locking - Hex Washer Head (3/8 - 16)	30	130-0523	1	Cap, Radiator Large Neck
13	130-2625	1	Grille		130-2344	1	Small Neck
14	821-0010	8	Screw, Self-Locking - Hex Washer Hd (1/4 - 20 x 1/2")	31	130-2519	1	Radiator (Includes Cap)
15	821-0029	4	Screw, Self-Locking - Hex Washer Hd (3/8 - 16 x 3/4")	32	821-0029	6	Screw, Self-Locking - Hex Washer Hd (3/8 - 16 x 3/4")
16	870-0281	4	Nut, Self-Locking - Hex Washer Head (3/8 - 16)	33	870-0281	6	Nut, Self-Locking - Hex Washer Head (3/8 - 16)
17	130-2687	1	Guard, Radiator (Less Grille)	34	130-2690	1	Shroud, Fan
18	503-0398	2	Clamp, Hose	35	130-2671	1	Bracket, Guard - Fan
				36	193-0322	1	Switch, Level - Lo Coolant
				37	338-1919	1	Harness, Wiring - Lo Coolant Level

Remote Radiator



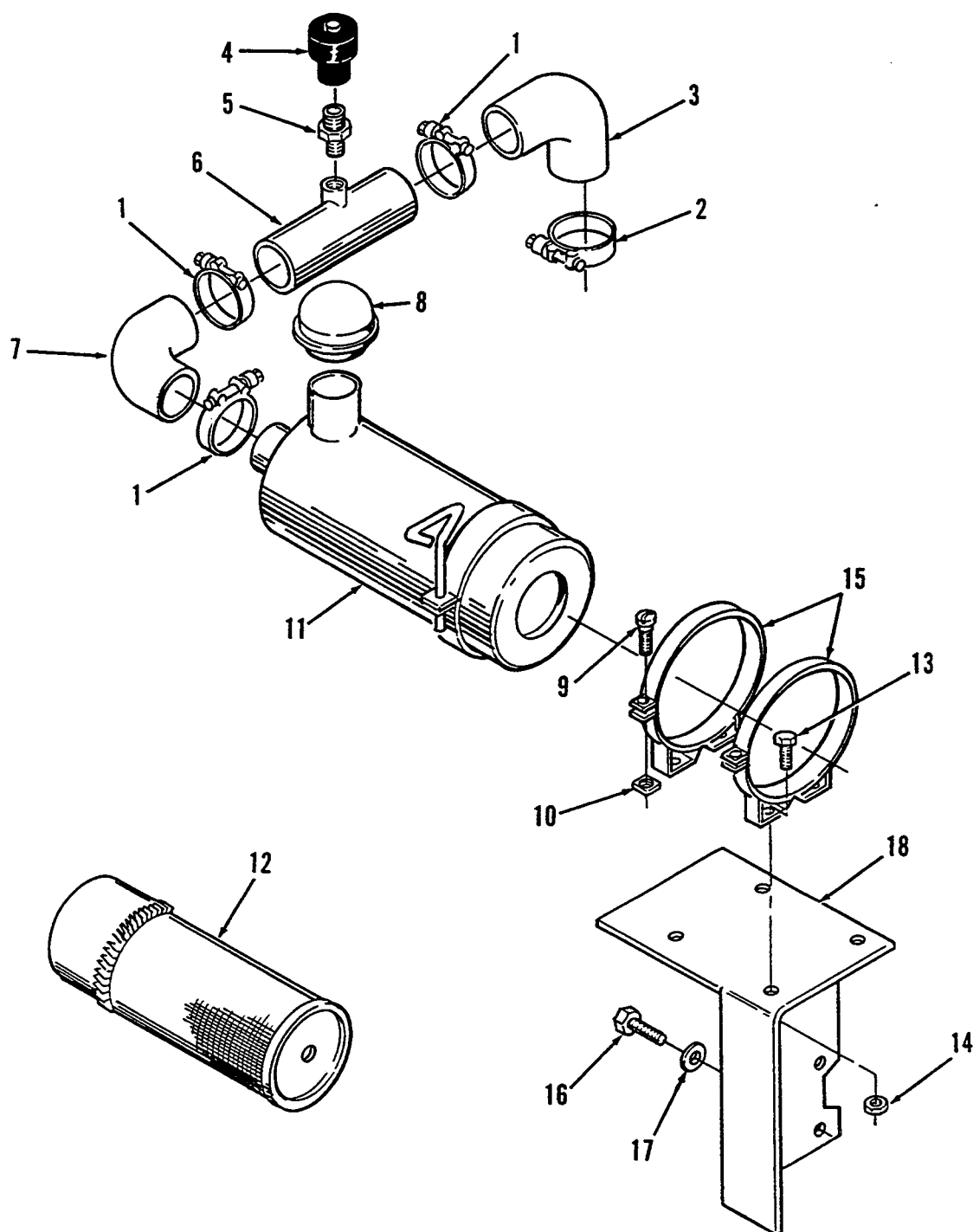
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0010	25	Screw, Cap - Locking Hex Washer Hd (1/4 - 20 x 1/2")	5	130-2676	1	Bracket, Guard - Belt
2	130-2847	1	Cover, Guard - Belt	6	130-2677	1	Bracket, Guard - Belt
3	130-2844	1	Wrapper, Guard - Belt (Top)	7	130-2843	1	Wrapper, Guard - Belt (Right)
4	191-1736	1	Wrapper, Guard - Belt (Left)	8	130-2674	1	Bracket, Guard - Belt
				9	130-2675	1	Bracket, Guard - Belt

Air Cleaner (Standard)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0868	1	Clamp, Hose	5	140-1838	1	Cleaner, Air (Includes Element)
2	503-0999	1	Clamp, Hose	6	140-1089	1	Element, Cleaner - Air
3	503-1181	1	Hose, Rubber - Reducing				
4	865-0020	1	Nut, Wing (1/4 - 20)				

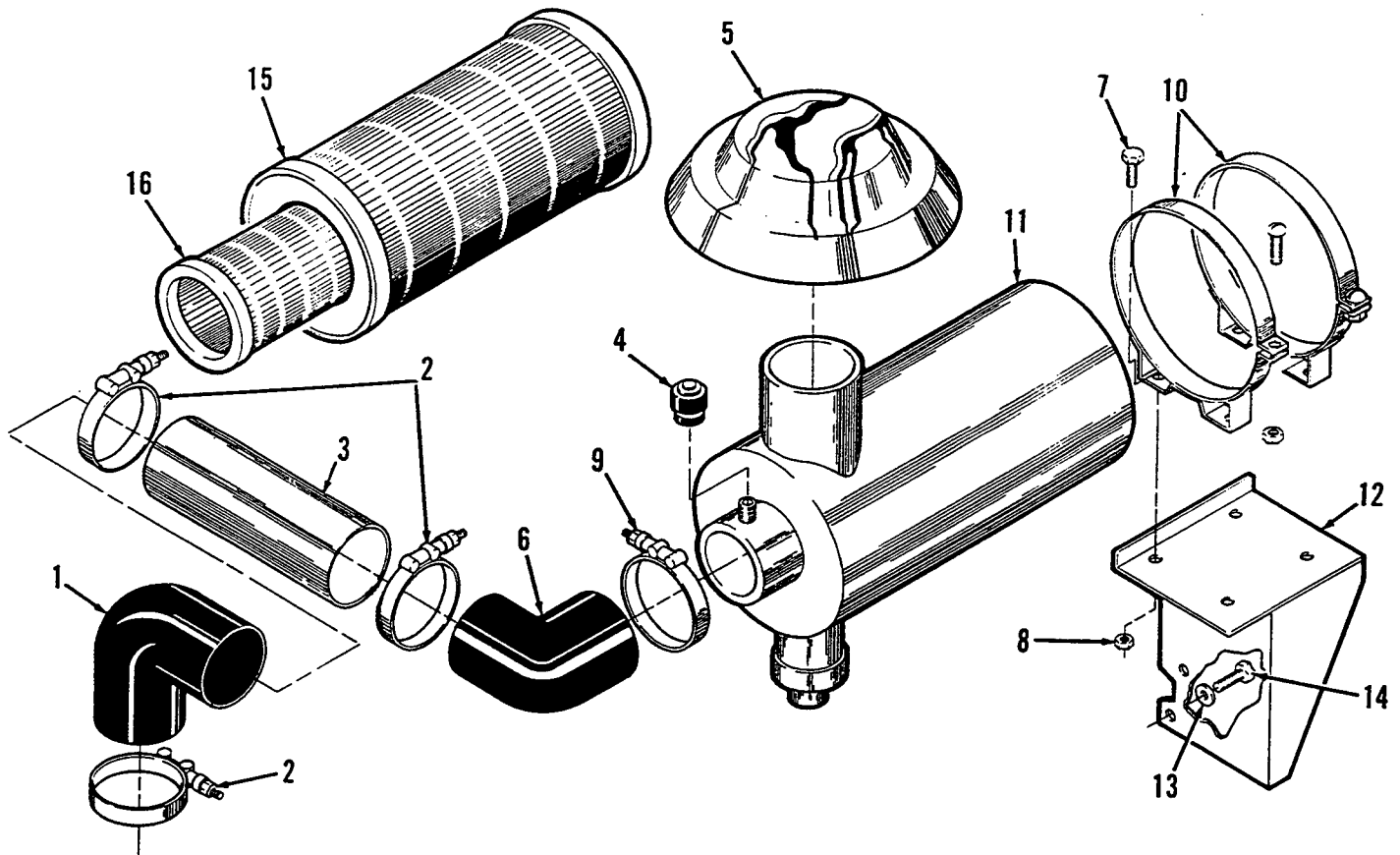
Heavy Duty Air Cleaner (Single Air Filter)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0999	3	Clamp, Hose - T-Bolt
2	503-0868	1	Clamp, Hose - T-Bolt
3	503-1387	1	Elbow, Rubber - 90° Reducing
4	140-1548	1	Indicator, Service - Air
5	140-1260	1	Adapter, Hex
6	140-1978	1	Tube, Air
7	140-1864	1	Elbow, Rubber - 90°
8	140-1787	1	Cap, Cleaner - Air
9	812-0153	2	Screw, Machine - Fillister Head (1/4 - 20 x 1")
10	863-0002	2	Nut, Square (1/4 - 20)
11	140-1786	1	Cleaner, Air (Includes Element)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12	140-1204	1	Element, Cleaner - Air
13	821-0029	4	Screw, Self-Locking - Hex Washer Hd (3/8 - 16 x 3/4")
14	870-0281	4	Nut, Self-Locking - Hex Washer Hd (3/8 - 16)
15	140-0078	2	Band, Mounting
16	718-1052	2	Screw, Cap - Hex Head (M10 x 1.5 x 16mm)
17	850-2010	2	Washer, Lock - Spring (M10)
18	140-1979	1	Bracket, Mounting - Air Cleaner

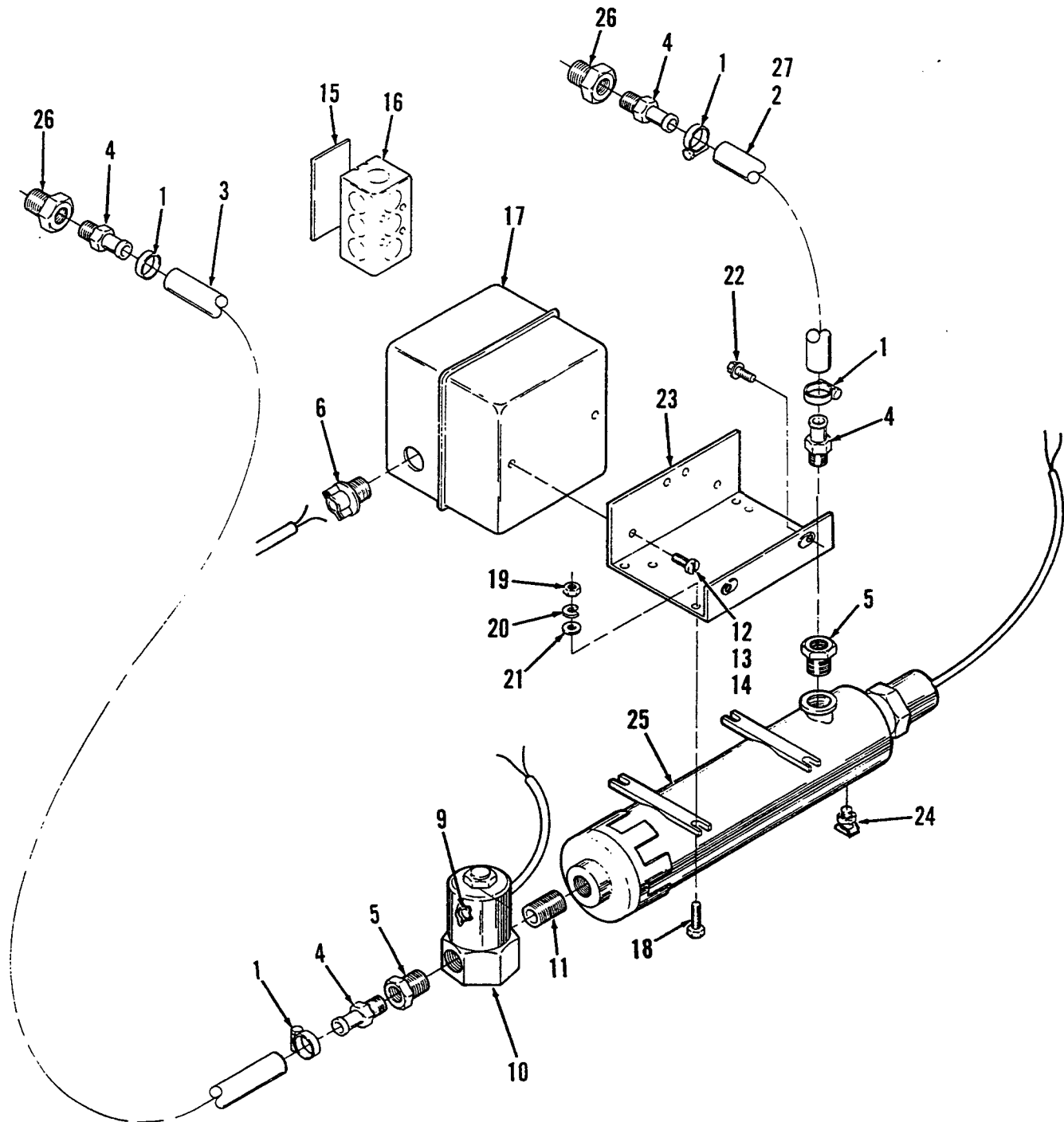
Heavy Duty Air Cleaner (Dual Air Filter)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-1467	1	Elbow, Cleaner - Air
2	503-0868	3	Clamp, Hose - T-Bolt
3	140-1468	1	Connector, Hose
4	140-1548	1	Indicator, Service
5	140-1575	1	Hood, Inlet - Air
6	140-1571	1	Elbow, Reducer
7	821-0016	4	Screw, Locking Head (Flange) (5/16 - 18 x 3/4")
8	870-0048	4	Nut, Lock (5/16 - 18)
9	503-0885	1	Clamp, Hose - T-Bolt

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	140-0317	2	Band, Mounting
11	140-2082	1	Cleaner, Air (Includes Elements)
12	140-2083	1	Bracket, Mtg - Air Cleaner
13	850-2010	2	Washer, Lock (M10)
14	718-1052	2	Screw, Cap - Hex Head (M10 x 1.5 x 16mm)
15	140-1619	1	Element, Air Cleaner - Primary
16	140-1620	1	Element, Air Cleaner - Safety

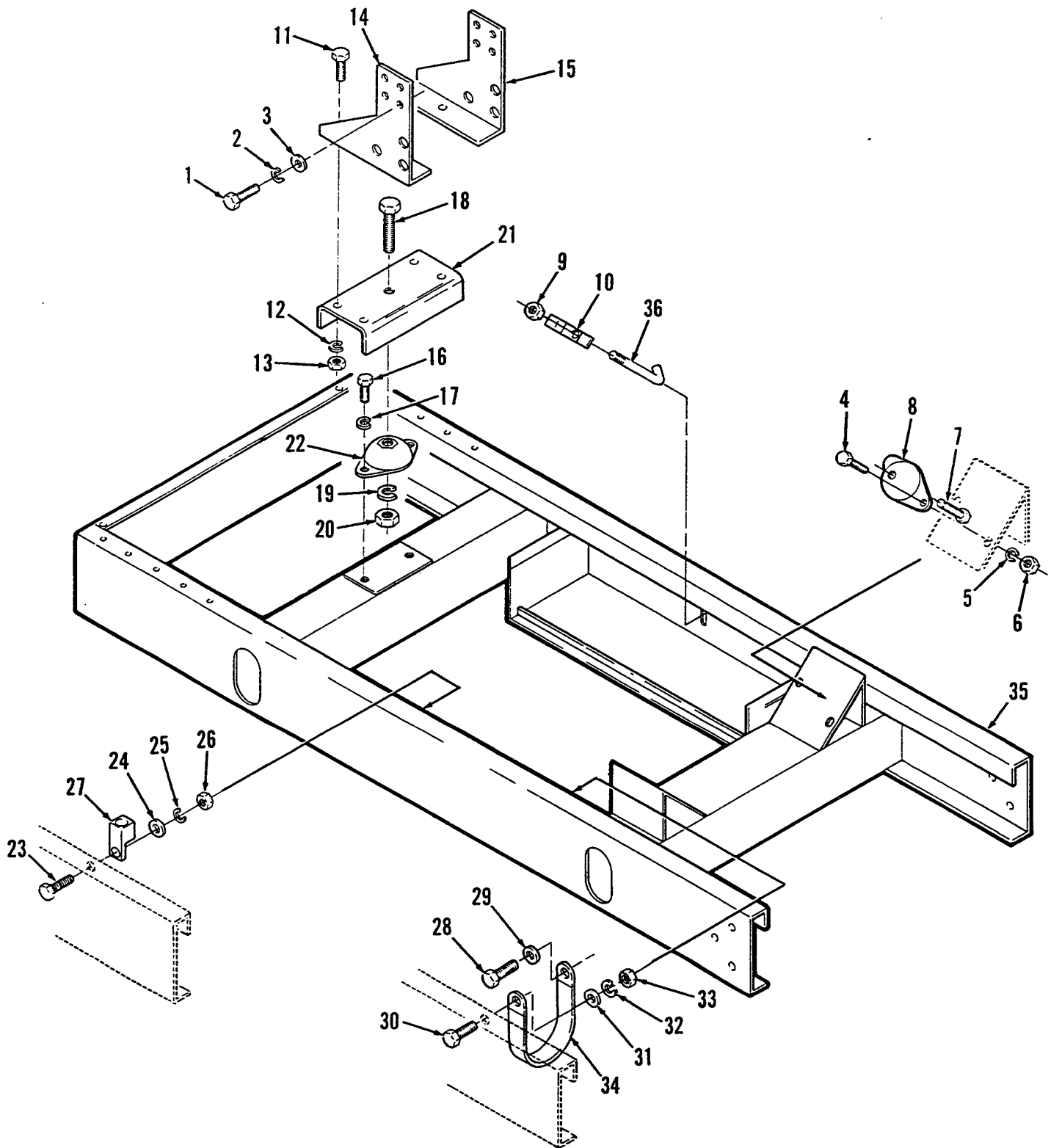
Engine Coolant Heater



Engine Coolant Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0183	4	Clamp, Hose	17	307-1164	1	Contactor, Electrical
2	503-0833	1	Hose, Rubber				480 VAC, 3 Pole
3	503-1169	1	Hose, Rubber	18	800-0006	4	Screw, Cap - Hex Head
4	502-0943	4	Adapter, Hose				(1/4 - 20 x 7/8")
5	505-0455	2	Bushing, Reducer - Hex	19	862-0001	4	Nut, Hex (1/4 - 20)
6	331-0027	4	Clamp, Cable	20	850-0040	4	Washer, Lock - Spring (1/4)
9			Terminal	21	526-0018	4	Washer, Flat (1/4)
	332-0014	2	#10 (Used on White Leads)	22	821-0029	2	Screw, Self-Locking - Hex
	332-0149	5	#8 (Used on White Leads)				Washer Hd (3/8 - 16 x 3/4")
	323-0957	4	Nut, Wire (Used on Black Leads)	23	130-2653	1	Bracket, Mounting
10	309-0304	1	Switch, Thermostatic	24	504-0003	1	Valve, Drain
11	505-0004	1	Nipple, Pipe - Close	25			Heater, Electric - 1500 Watt
12	812-0100	2	Screw, Mach - Round Head		333-0093	1	120 VAC, 1 Phase
			(#10 - 24 x 1/2")		333-0177	1	208 VAC, 1 Phase
13	850-0030	2	Washer, Lock - Spring (#10)		333-0162	1	240 VAC, 1 Phase
14	860-0011	2	Nut, Hex (#10 - 24)		333-0168	1	480 VAC, 1 Phase
15	330-0004	1	Cover, Box - Outlet	26	502-0948	2	Adapter, Pipe - Hex
16	330-0005	1	Box, Outlet - Electrical	27	128-0108	1	Insulation, Hose

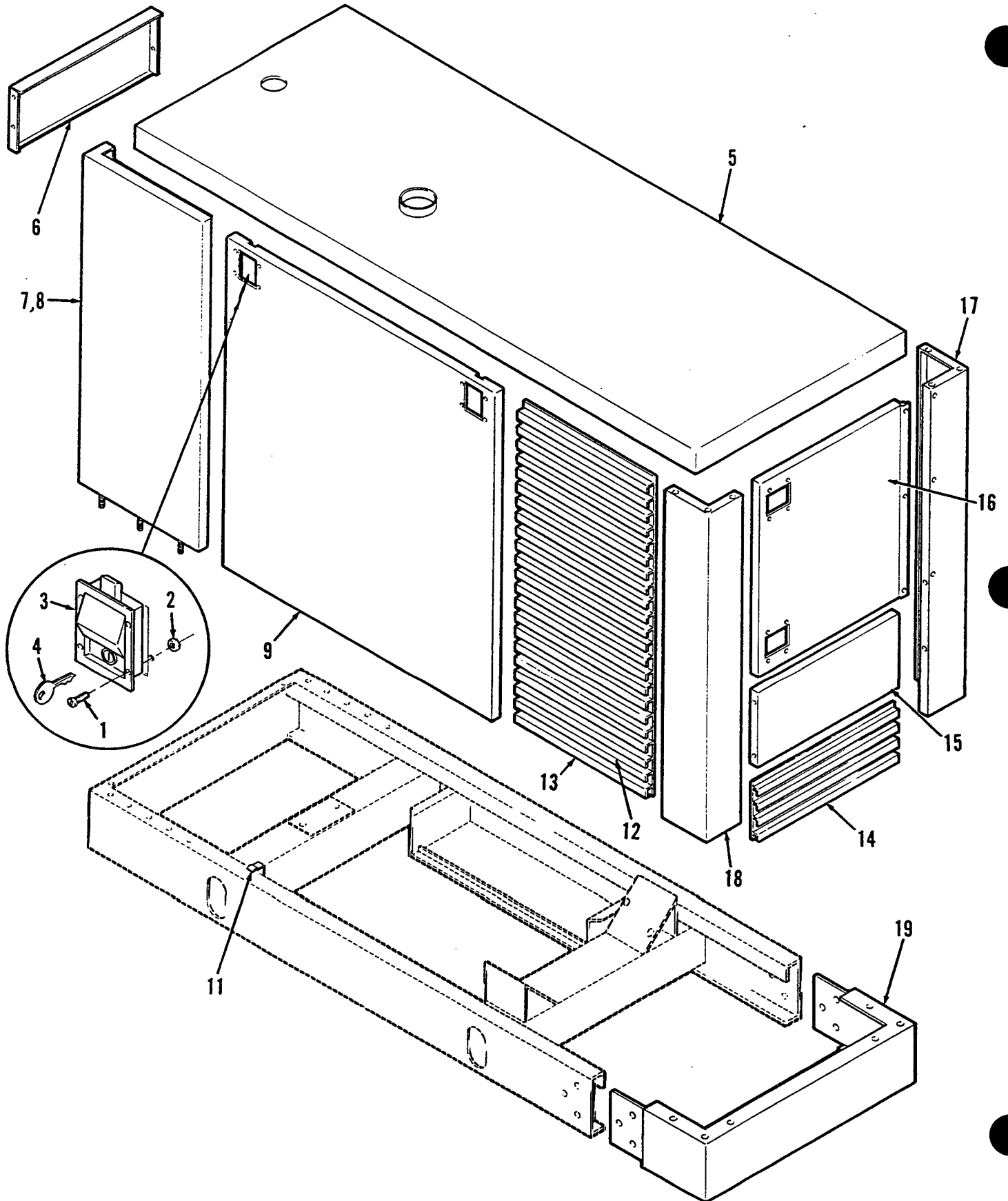
Chassis



Chassis

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	718-1054	8	Screw, Cap - Hex Head (M10 x 1.5 x 30mm)	18	800-0153	1	Screw, Cap - Hex Head (3/4 - 10 x 1-1/2")
2	850-2010	8	Washer, Lock - Spring (M10)	19	850-0079	1	Washer, Lock - Spring (3/4)
3	856-0012	2	Washer, Lock - EIT (7/16)	20	862-0008	1	Nut, Hex (3/4 - 10)
4	800-0071	4	Screw, Cap - Hex Head (7/16 - 14 x 1")	21	403-2333	1	Brace, Mounting - Engine
5	850-0055	4	Washer, Lock - Spring (7/16)	22	402-0030	1	Mount, Vibration
6	862-0004	4	Nut, Hex (7/16 - 14)	23	800-0028	1	Screw, Cap - Hex Head (5/16 - 18 x 1")
7	402-0030	2	Mount, Vibration	24	856-0008	1	Washer, Lock - EIT (5/16)
8	800-0520	2	Screw, Cap - Hex Head (3/4 - 10 x 1")	25	850-0045	1	Washer, Lock - Spring (5/16)
9	870-0212	1	Nut, Self-Locking - (Flange) (1/4 - 20)	26	862-0015	1	Nut, Hex (5/16 - 18)
10	416-0854	1	Bracket, Hold-down - Battery	27	332-1473	1	Lug, Solderless
11	800-0091	4	Screw, Cap - Hex Head (1/2 - 13 x 1-1/4")	28	718-1073	1	Screw, Cap - Hex Head (M12 x 1.75 x 25mm)
12	850-0060	4	Washer, Lock - Spring (1/2)	30	800-0090	1	Screw, Cap - Hex Head (1/2 - 13 x 1")
13	862-0016	4	Nut, Hex (1/2 - 13)	31	856-0013	2	Washer, Lock - EIT (1/2)
14	403-2330-01	1	Bracket, Mounting - Engine	32	850-0060	1	Washer, Lock - Spring (1/2)
15	403-2330-02	1	Bracket, Mounting - Engine	33	862-0016	1	Nut, Hex (1/2 - 13)
16	800-0090	2	Screw, Cap - Hex Head (1/2 - 13 x 1")	34	337-0090	1	Strap, Electrical - Ground
17	850-0060	2	Washer, Lock - Spring (1/2)	35	403-2326	1	Chassis
				36	416-0853	1	Hook, J - Battery Hold-Down

Set Housing

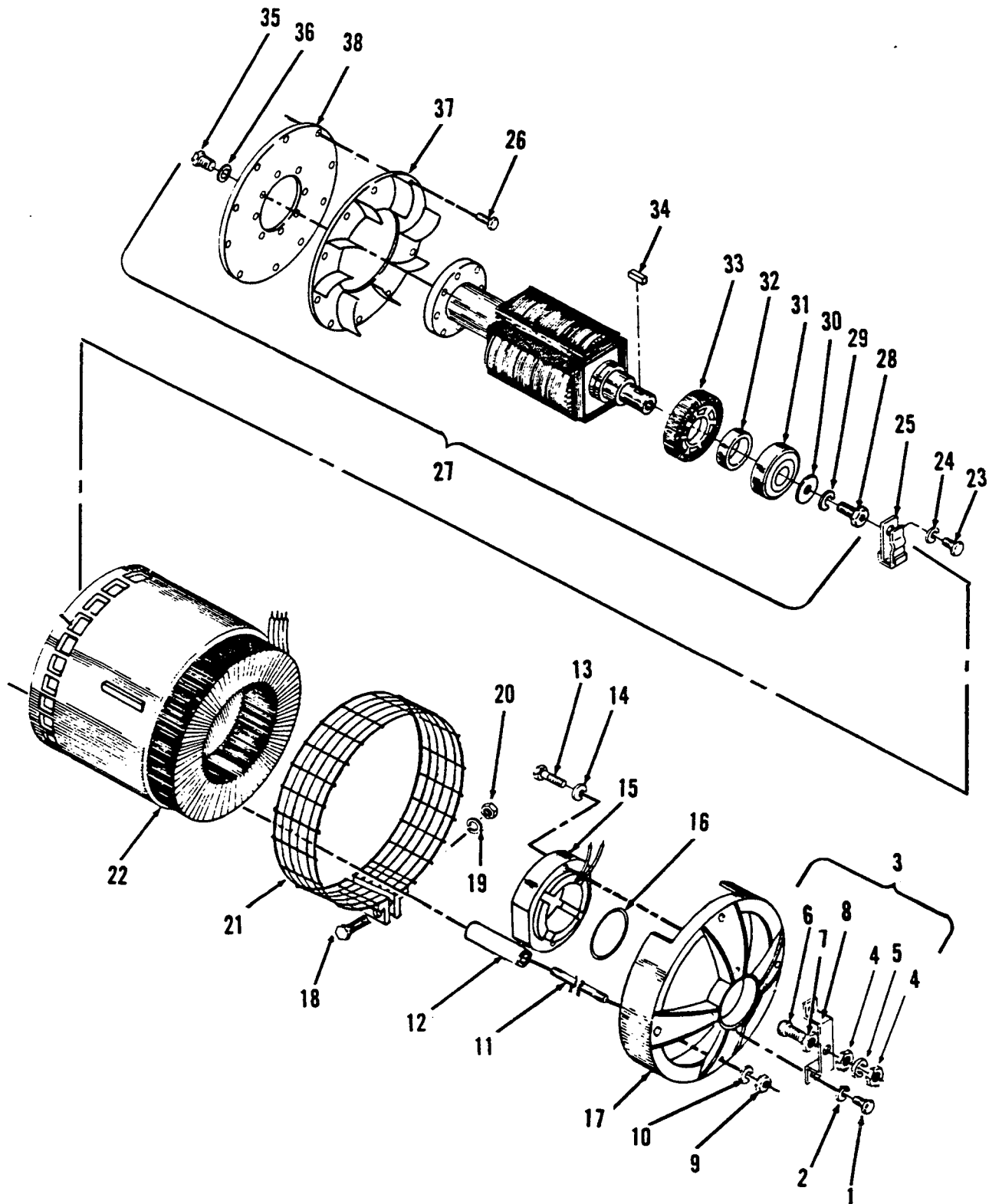


Set Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0607	24	Screw, Machine - Oval Head (#8 - 32 x 3/8")		821-0014	4	Screw, Self-Lock - Hex Wash Hd (5/16 - 18 x 1/2")
2	870-0235	24	Nut, Self-Locking - Hex (#8 - 32)		870-0257	4	Nut, Self-Locking - Hex (5/16 - 18)
3	406-0576	1	Latch, Door (Includes Key)	14	405-3357	1	Grille, Housing - Rear
4	406-0577	1	Key, Latch		821-0014	4	Screw, Self-Lock - Hex Wash Hd (5/16 - 18 x 1/2"
5	405-3366	1	Panel, Top		870-0257	4	Nut, Self-Locking - Hex (5/16 - 18)
	821-0029	14	Screw, Self-Locking - Hex Washer Hd (3/8 - 16 x 3/4")				
	870-0281	14	Nut, Self-Locking - Hex (3/8 - 16)	15	405-3353	1	Panel, Housing - Rear
6	405-3377-04	1	Panel, Housing - Front		821-0014	4	Screw, Self-Lock - Hex Wash Hd (5/16 - 18 x 1/2")
	821-0010	4	Screw, Self-Locking Hex Washer Hd (1/4 - 20 x 1/2")		870-0257	4	Nut, Self-Locking - Hex (5/16 - 18)
	870-0212	4	Nut, Self-Locking - Hex (1/4 - 20)	16	405-3361	1	Door, Access - Control
7	405-3349	1	Panel, Housing - Side/Front		819-1083	3	Screw, Machine - Pan Head (1/4 - 20 x 7/16")
	870-0281	4	Nut, Self-Locking - Hex (3/8 - 16)	17	405-3348	1	Panel, Housing - Rear Post
8	405-3350	1	Panel, Housing - Side/Front (Not Illustrated)		821-0029	3	Screw, Self-Locking - Hex Washer Hd (3/8 - 16 x 3/4")
	870-0281	4	Nut, Self-Locking - Hex (3/8 - 16)		870-0281	3	Nut, Self-Locking - Hex (3/8 - 16)
9	405-3352	2	Door, Access - Engine	18	405-3374	1	Panel, Housing - Rear Post
11	406-0574	4	Pivot, Hinge - Door/Panel		821-0029	3	Screw, Self-Locking - Hex Washer Hd (3/8 - 16 x 3/4")
	815-0236	4	Screw, Thread Cutting - Hex Head (5/16 - 18 x 5/8")		870-0281	3	Nut, Self-Locking - Hex (3/8 - 16)
12	405-3358	2	Grille, Housing - Side	19	403-2313-01	1	Base, Skid - Rear
	821-0014	4	Screw, Self-Locking - Hex Washer Hd (5/16 - 18 x 1/2")		800-0090	6	Screw, Cap - Hex Head (1/2 - 13 x 1")
13	405-3368	2	Bracket, Support - Housing Side Grille		850-0060	6	Washer, Lock - Spring (1/2)
					862-0016	6	Nut, Hex (1/2 - 13)

NOTE: Heat shields used with Housing are illustrated in the Exhaust System.

Generator

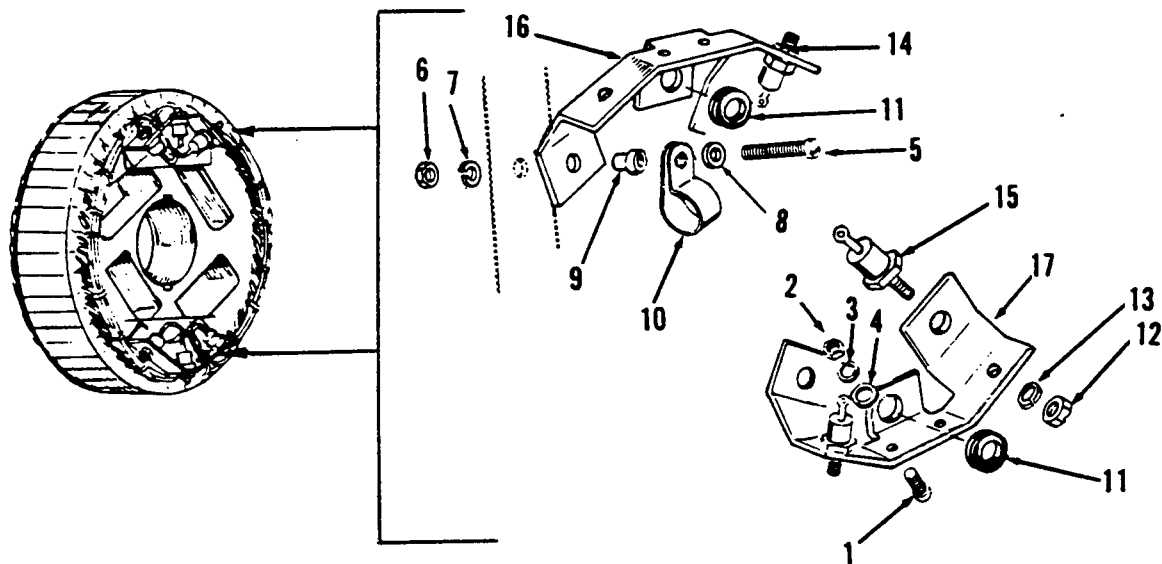


Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0003	2	Screw, Cap - Hex Head (1/4 - 20 x 1/2")	220-1457	1	1	Code 15 (Extended Stack)
2	850-0040	2	Washer, Lock - Spring (1/4)	220-1789	1	1	Code 15 (Environmental Protected & Extended Stack)
3	150-1456	1	Contact Assembly, Overspeed (Includes Parts Marked *)	220-1997	1	1	Code 515
4	862-0001	2	*Nut, Hex (1/4 - 20)	220-2000	1	1	Code 515 (Extended Stack)
5	853-0013	1	*Washer, Lock - ET (1/4)	23	800-0048	1	Screw, Cap - Hex Head (3/8 - 16 x 3/4")
6	150-0723	1	*Contact, Electrical	24	856-0010	1	Washer, Lock - EIT (3/8)
7	870-0250	1	*Nut, Insulator	25	150-0717	1	Switch, Overspeed
8	150-1356	1	*Bracket, Mounting - Contact	26	720-1054	8	Screw, Cap - Hex Head (M10 x 1.5 x 25mm)
9	750-1008	4	Nut, Hex (M10 x 1.5)				Rotor Assembly, Generator (Includes Parts Marked +)
10	850-2010	4	Washer, Lock - Spring (M10)	27			Codes 9X, 15, 515
11			Stud (M10)				Codes 15, 515 (Extended Stack)
	520-2413	4	419.1mm (16 - 1/2)		201-2669	1	Codes 15, 515 (Environmental Protected)
	520-2414	4	438.2mm (17 - 1/4)		201-2672	1	+Screw, Cap (Special)
	520-2415	4	460.4mm (18 - 1/8)				+Washer, Lock - Spring (3/4)
12	503-1274	4	Hose, Rubber		201-2687	1	+Washer, Flat (13/16" ID x 2" OD x 3/16" THK)
13	800-0009	4	Screw, Cap - Hex Head (1/4 - 20 x 1-1/2")	28	800-0513	1	+Bearing, Ball
14	850-0040	4	Washer, Lock - Spring (1/4)	29	850-0079	1	+Spacer, Sleeve
15			Stator, Exciter	30	526-0238	1	Rotor Assembly, Exciter (See Separate Page For Components)
	220-2353	1	Standard				+ Standard
	220-1774	1	Environmental Protected	31	510-0101	1	Environmental Protected
16	509-0125	1	Seal, O-Ring	32	232-2102	1	+Key, Machine
17	211-0185	1	Bell, End - Generator	33			+Bolt, Hex Head (5/8 - 11 x 1-1/2")
18	114-0023	2	Screw, Cap - Hex Head (1/4 - 20 x 1-1/4")		201-1739	1	+Washer, Flat (11/16" ID x 1-3/8" OD x 7/64" THK)
19	850-0040	2	Washer, Lock - Spring (1/4)		201-1845	1	+Fan, Generator
20	862-0001	2	Nut, Hex (1/4 - 20)	34	515-0145	1	+Disk, Drive - Generator
21	234-0368	1	Screen, Air - Generator	35	805-0035	8	
22			Stator, Generator	36	526-0259	8	
	220-1602	1	Code 9X	37	205-0089	1	
	220-1454	1	Code 15	38	232-2078	1	
	220-1786	1	Code 15 (Environmental Protected)				

* Parts included in 150-1456 Overspeed Contact Assy.
+ Parts included in Generator Rotor Assembly.

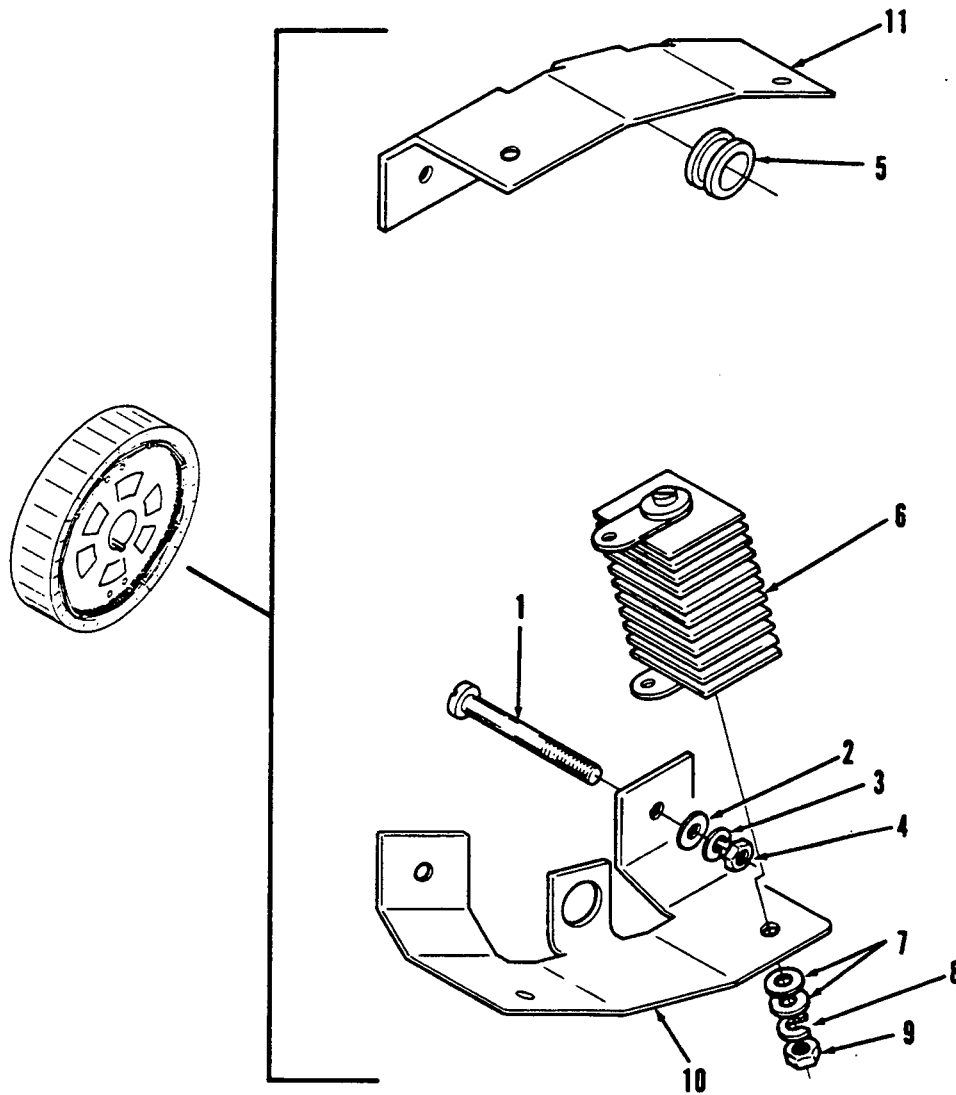
Exciter Rotor



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	201-1739	1	Rotor Assembly - Exciter Standard
	201-1845	1	Environmental Protected
1	813-0100	2	Screw, Machine - Round Head (#10 - 32 x 1/2")
2	870-0053	2	Nut, Hex (#10 - 32)
3	850-0030	2	Washer, Lock - Spring (#10)
4	526-0008	2	Washer, Flat (13/64" ID x 7/16" OD x 1/32" THK)
5	813-0110	4	Screw, Machine - Round Head (#10 - 32 x 2")
6	870-0053	4	Nut, Hex (#10 - 32)
7	850-0030	4	Washer, Lock - Spring (#10)
8	526-0009	4	Washer, Flat (7/32" ID x 1/2" OD x 1/16" THK)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	508-0187	4	Spacer, Stepped
10	332-0050	2	Clamp, Loop
11	508-0093	2	Grommet, Rubber
12	870-0053	6	Nut, Hex (#10 - 32)
13	850-0030	6	Washer, Lock - Spring (#10)
14			Diode, Rectifier - Positive (CR1, CR2, CR3)
	358-0097	3	Standard
	358-0044	3	Environmental Protected
15			Diode, Rectifier - Negative (CR4, CR5, CR6)
	358-0096	3	Standard
	358-0043	3	Environmental Protected
16	363-0054	1	Sink, Heat - Positive Diodes
17	363-0055	1	Sink, Heat - Negative Diodes

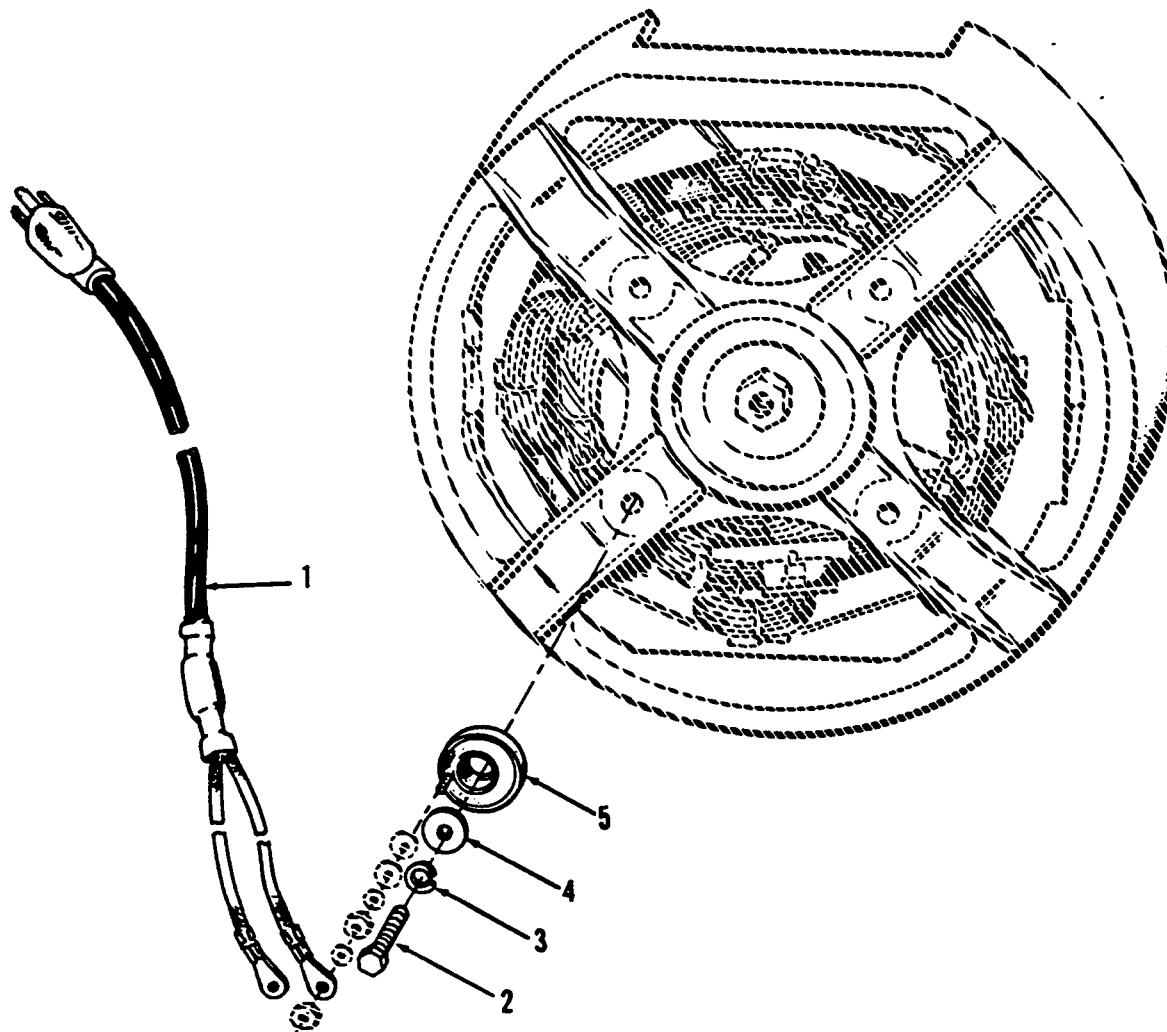
Voltage Suppressór



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0112	4	Screw, Machine - Round Head (#10 - 32 x 2-1/2")
2	526-0140	4	Washer, Flat (7/32" ID x 3/8" OD x 3/64" THK)
3	850-0030	4	Washer, Lock - Spring (#10)
4	870-0053	4	Nut, Hex (#10 - 32)
5	508-0093	2	Grommet, Rubber
6	305-0526	1	Suppressor Set, Voltage (Matched Pair)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	526-0140	4	Washer, Flat (7/32" ID x 3/8" OD x 3/64" THK)
8	850-0030	4	Washer, Lock - Spring (#10)
9	870-0053	4	Nut, Hex (#10 - 32)
10	363-0054	1	Sink, Heat - Positive
11	363-0055	1	Sink, Heat - Positive

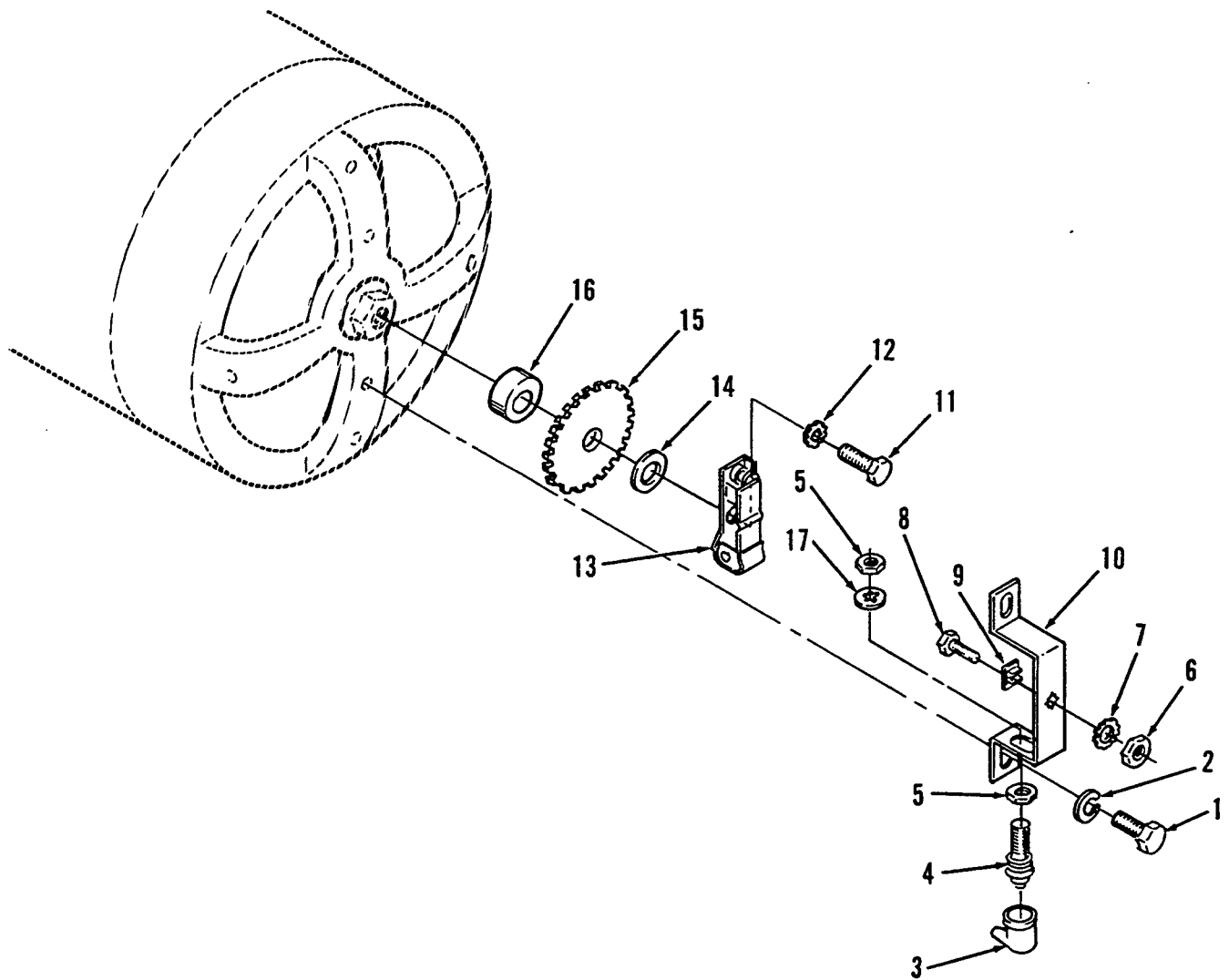
Generator Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cable Assembly, Electric (Includes Thermostat)
	335-0146	1	120 VAC
	335-0147	1	240 VAC
2	800-0004	1	Screw, Cap - Hex Head (1/4 - 20 x 5/8")

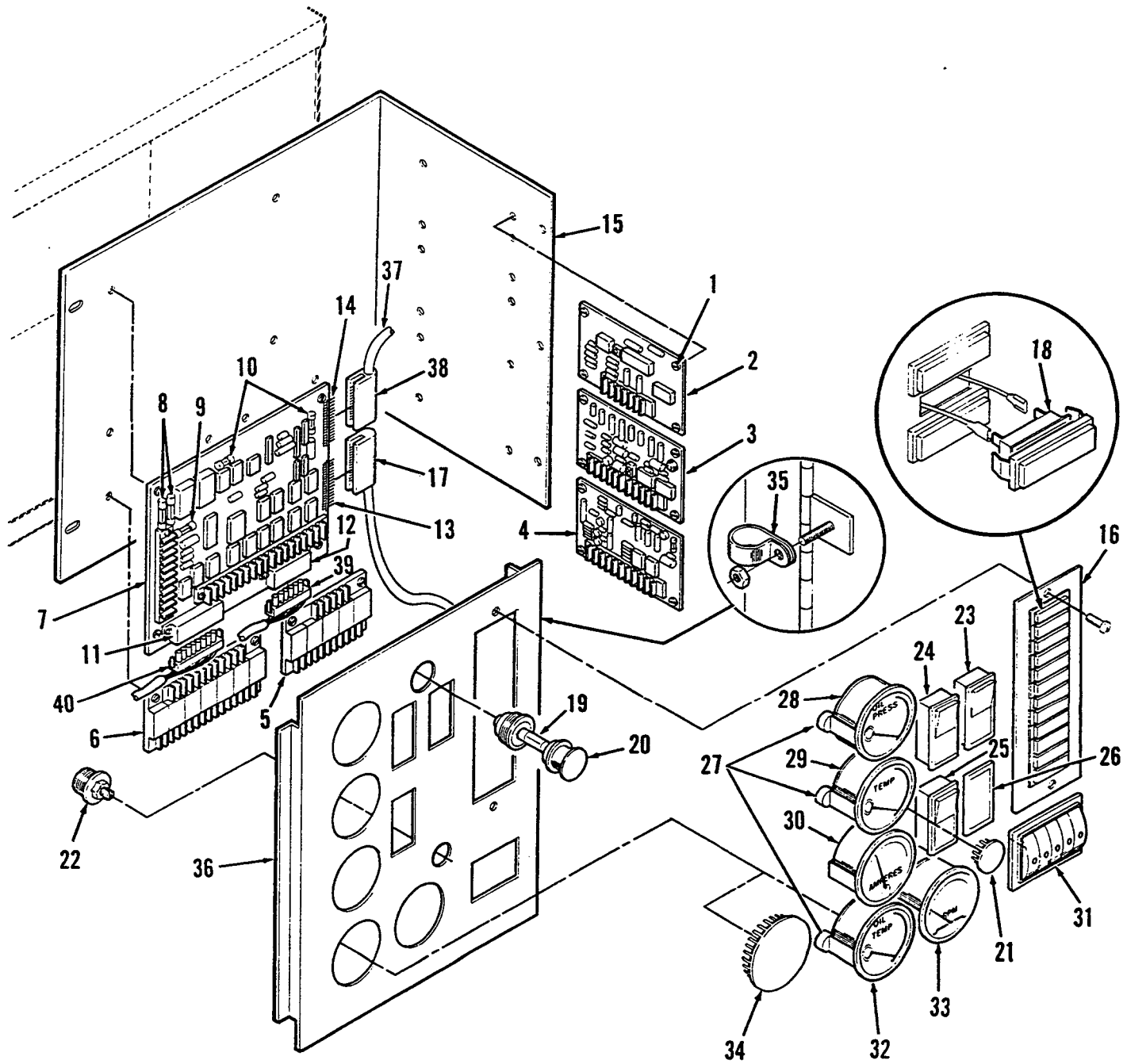
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	850-0038	1	Washer, Lock - Spring (1/4)
4	526-0158	1	Washer, Flat (17/64" ID x 1" OD x 1/8" THK)
5			Heater, Electrical
	333-0059	1	120 VAC, 125 Watt
	333-0192	1	240 VAC, 200 Watt

Magnetic Pickup



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0003	2	Screw, Cap - Hex Head (1/4 - 20 x 1/3")	10	301-9402	1	Bracket, Mounting
2	850-0040	2	Washer, Lock - Spring (1/4")	11	800-0053	1	Screw, Cap - Hex Head (3/8 - 16 x 1-3/4")
3	150-1410	1	Cap, Insulator	12	856-0010	1	Washer, Lock - EIT (3/8)
4	150-1406	1	Sensor, Speed - Magnetic	13	150-0717	1	Switch, Overspeed
5	868-0011	2	Nut, Hex - Jam (3/4 - 16)	14	526-0077	1	Washer, Flat (13/32" ID x 1-1/4" OD x 1/4" THK)
6	862-0001	2	Nut, Hex (1/4 - 20)	15	150-1557	1	Wheel, Sensor - Speed
7	853-0013	1	Washer, Lock - ET (1/4)	16	370-4011	1	Spacer, Sleeve
8	150-0723	1	Contact, Electrical	17	854-0031	1	Washer, Lock - IT (3/4)
9	870-0250	1	Nut, Insulator				

Engine Control

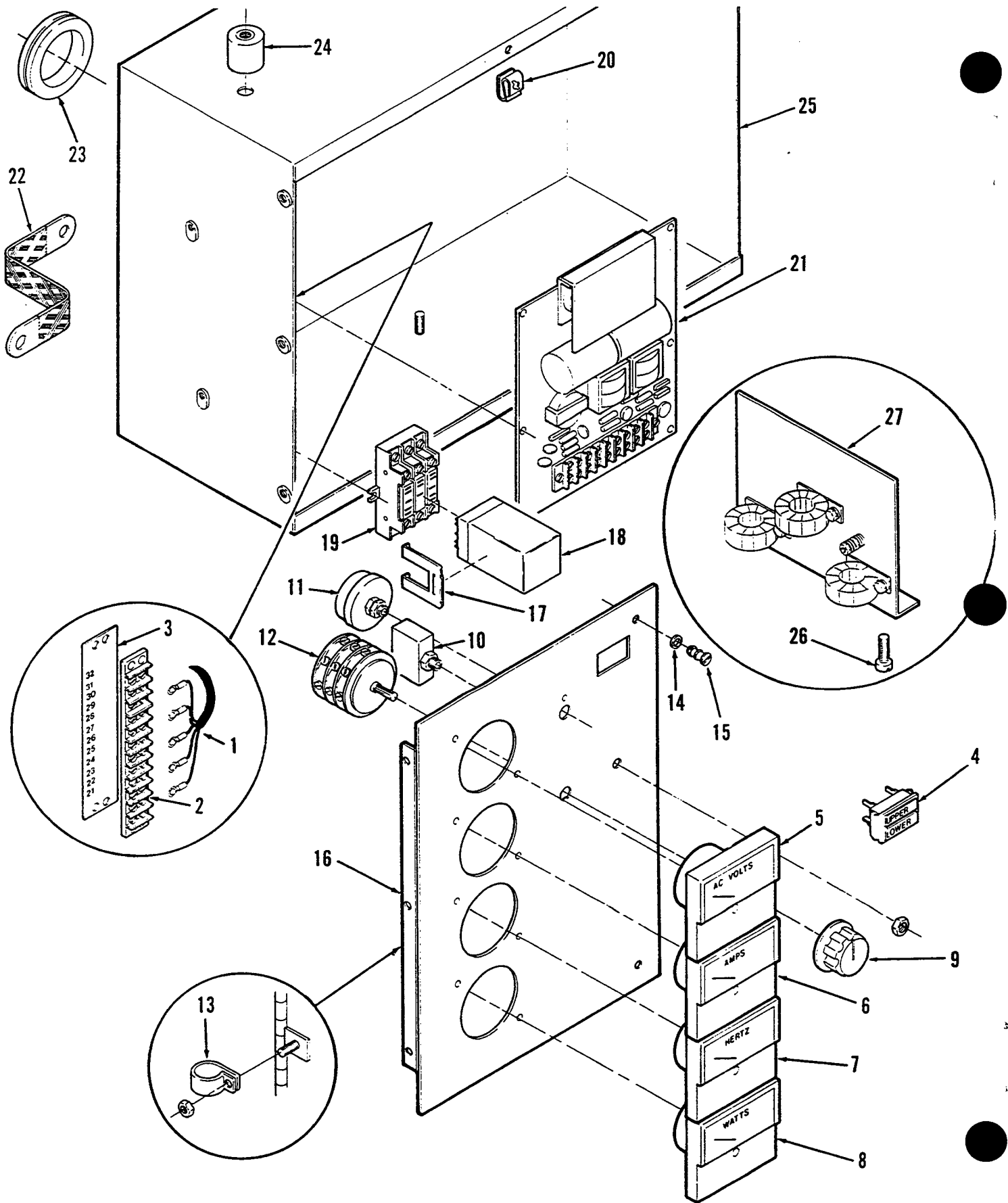


Engine Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0544	24	Screw, Machine - Round Head IT Washer (#6 - 32 x 1/2")		815-0385	2	Screw, Machine - Round Head (#6 - 32 x 1/2")
2	300-2899	1	Board Assy, Printed Circuit - Time Delay, Start/Stop (A15)		870-0183	2	Nut, Self-Locking - ET Hex Washer Head (#6 - 32)
3			Board Assy, Printed Circuit - Magnetic Pickup (A16)	17	323-1310	1	Housing, Conn - 13 pin (J3)
	300-2903	1	Standard (Fixed Sensitivity)		323-1302	13	Contact, Pin
	300-2904	1	Precision (Adj Sensitivity)	18	322-0369-02	1	Lamp, Incandescent - 1/3 Watt 28 Volts DC
4	300-2906	1	Board Assy, Printed Circuit - Over/Under Volt Sensor (A17)	19	322-0017	1	Lamp, Incandescent - 28 Volts DC (DS11)
5	300-2856	1	Board Assy, Printed Circuit - Relay Assembly - (A13)	20	322-0361	1	Holder, Lamp
6	300-2863	1	Board Assy, Printed Circuit - Relay Assembly - (A14)	21	517-0131	1	Plug, Button
7			Board Assy, Printed Circuit - Engine Monitor - (A11) (Includes Fuses & Connectors)	22	151-0402	1	Potentiometer - Speed Control (R11)
	300-2808	1	2 Light Control	23	308-0785	1	Switch, Push - Reset/Panel Lamp (S11)
	300-2810	1	7 Light Control	24	308-0784	1	Switch, Push - Run/Stop/ Remote (S12)
	300-2812	1	12 Light Control	26	301-6257	1	Cover, Hole - Switch
8	321-0270	2	Fuse, Cartridge - 20 Amp (F1, F2)	27	193-0250	3	Resistor, Gauge (R12)
9	321-0231	1	Fuse, Cartridge - 15 Amp (F3)	28	193-0352	1	Gauge, Pressure - Oil (M11)
10	321-0094	2	Fuse, Cartridge - 5 Amp (F4, F5)	29	193-0351	1	Gauge, Temp - Water (M12)
11	323-1305	1	Connector - 8 Pin (P1)	30	302-1790	1	Meter, Ampere - DC (M13)
12	323-1303	1	Connector - 6 Pin (P2)	31	302-0885	1	Meter, Running Time (M14)
13	323-1309	1	Connector - 13 Pin (P3)	32	193-0330	1	Gauge, Temp - Oil (M15)
14	323-1307	1	Connector - 12 Pin (P4)	33	302-1715	1	Meter, Tach (M16)
15	301-8851	1	Bracket, Mounting - Printed Circuit Board Assembly	34	517-0221	1	Plug, Button
	821-0004	4	Screw, Self-Locking - Hex Washer Head (#10 - 32 x 5/16")	35	322-0052	1	Clamp, Loop
16			Module, Indicator - Fault (A12) (Includes Connector Housing)		870-0131	1	Nut, Self-Locking - ET Hex Washer Head (#10 - 32)
	322-0358-02	1	2 Light Control	36			Door, Control
	322-0359-02	1	7 Light Control		301-9055-01	1	5 Gauge Holes
	322-0360-02	1	12 Light Control		301-9055-02	1	3 Gauge Holes
				37	338-1817	1	Harness, Wiring - DC (Includes Connector Housing)
				38	323-1308	1	Housing, Conn - 12 Pin (J4)
					323-1302	12	Contact, Pin
				39	323-1304	1	*Housing, Conn - 6 Pin (J2)
					323-1200	6	* Contact, Pin
				40	323-1306	1	*Housing, Conn - 8 Pin (J1)
					323-1200	8	* Contact, Pin

* Parts included in Control To Engine Wiring Harness.

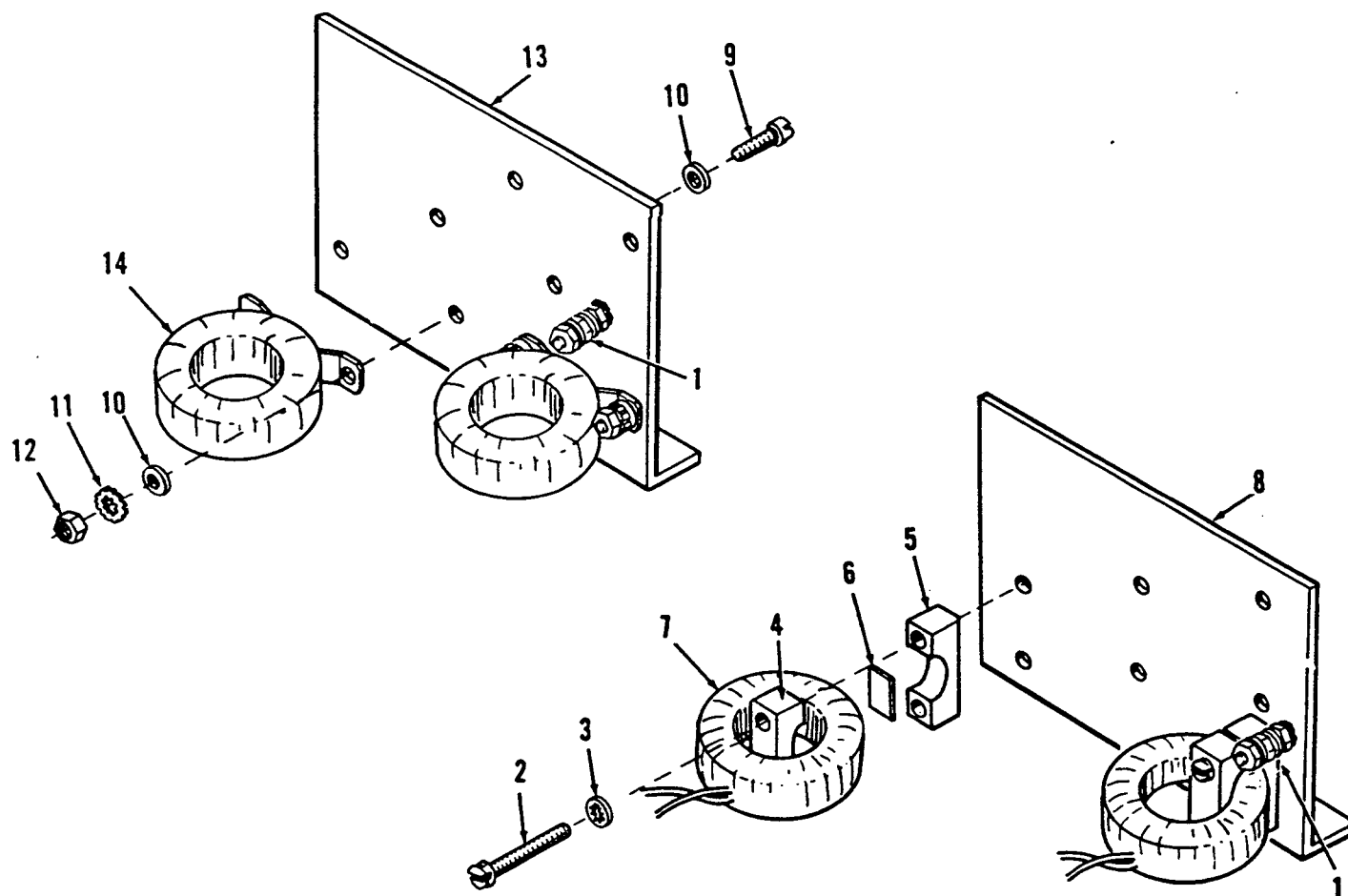
Generator Control.



Generator Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring - AC (Includes Terminal Block)	15	406-0333	2	Stud, Fastener - Turnbutton
	338-1818	1	Controls With Meters	16			Door, Control
	338-1853	1	Controls Without Meters		301-9054-01	1	4 Meter Holes
	812-0065	2	Screw, Machine - Round Head (#6 - 32 x 5/8")		301-9054-02	1	3 Meter Holes
					301-9054-03	1	No Meter Holes
2	332-0607	1	Block, Terminal (TB1)		821-0004	3	Screw, Self-Locking - Hex Washer Hd (#10 - 32 x 5/16")
3	332-2723	1	Strip, Marker	17	307-1987	2	Clip, Retaining - Relay
4	322-0363	1	Light, Indicator - Dual (DS21, DS22)	18	307-1056	1	Relay, 24 VDC
5	302-1148	1	Meter, Volt - AC (M21)	19	323-0804	1	Socket, Relay
6			Meter, Ampere - M22		815-0544	2	Screw, Machine - IT Round Washer Hd (#6 - 32 x 1/2")
			Single Scale				
	302-1757	1	0-75 (Voltage Code 9X)	20	406-0332	2	Receptacle, Turnbutton Fastener
			Dual Scale				
	302-1683	1	0-100/200 Amp (Voltage Code 515)	21	300-2880	1	Regulator, Voltage (VR21)
	302-1684	1	0-150/300 Amp (Voltage Code 15)		815-0544	6	Screw, Machine - IT Round Washer Hd (#6 - 32 x 1/2")
7	302-1720	1	Meter, Frequency (M23)	22	337-0049	1	Strap, Electrical (Ground)
8		1	Meter, Watt (M24) (See Separate Page For Components)		800-0024	1	Screw, Cap - Hex Head (5/16 - 18 x 1/2")
9	303-0032	1	Knob		856-0008	1	Washer, Lock - EIT (5/16)
10		1	Breaker, Circuit (CB21)	23	508-0051	1	Grommet
	320-1121	1	Without Auxiliary Contacts	24	402-0527	4	Mount, Vibration
	320-1438	1	With Auxiliary Contacts		800-0045	4	Screw, Cap - Hex Head (5/16 - 18 x 3/8")
11	303-0261	1	Rheostat (R21)		850-0045	4	Washer, Lock - Spring (5/16)
12	308-0284	1	Switch, Rotary (S21)	25	301-8065	1	Box, Control
13	332-0052	1	Clamp, Loop	26	821-0010	2	Screw, Self-Locking - Hex Washer Hd (1/4 - 20 x 1/2")
	870-0131	1	Nut, Self-Locking - ET Hex Washer Head (#10 - 32)	27		1	Transformer Assembly - Current (See Separate Page For Components)
14	406-0334	2	Clip, Retaining - Turnbutton Fastener				

Current Transformer

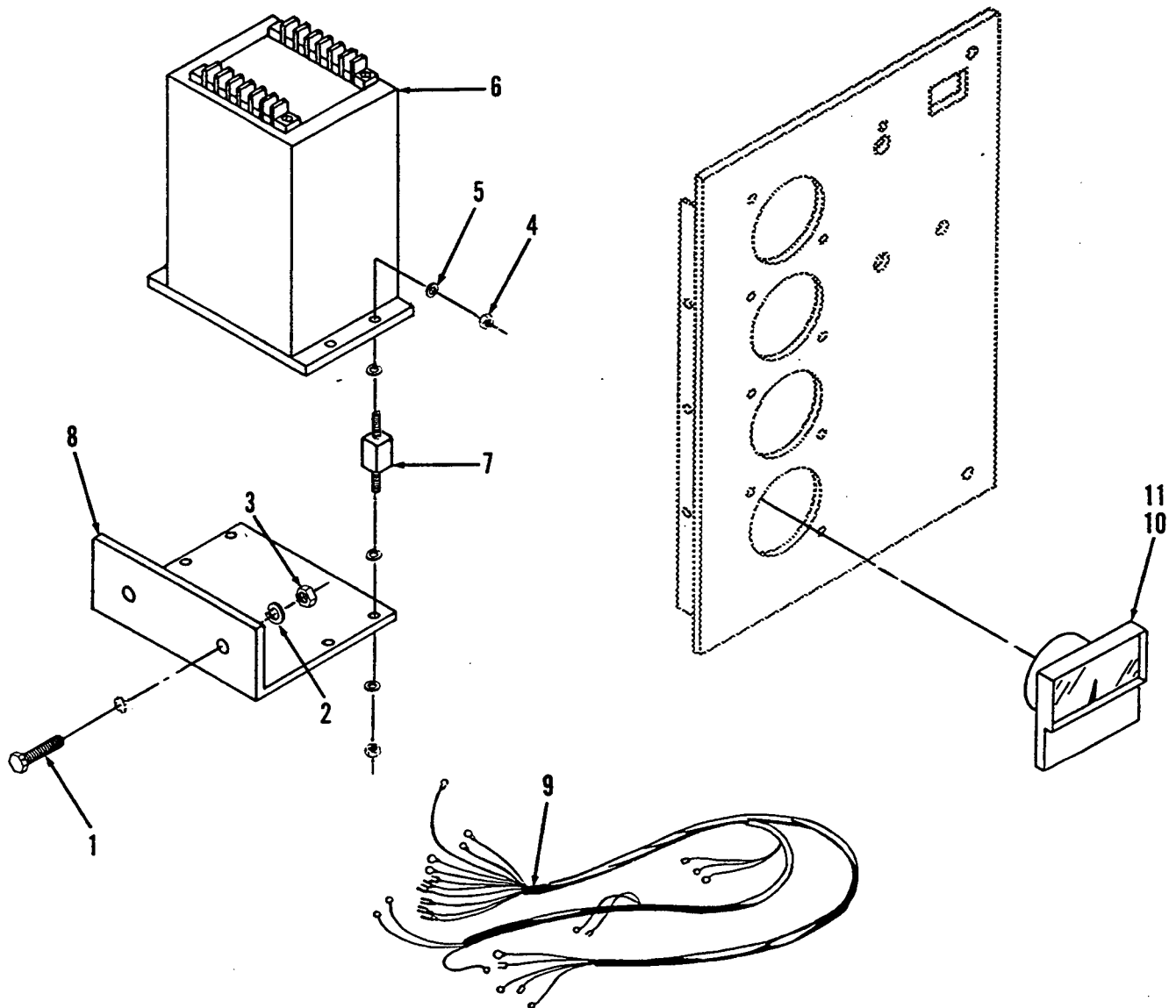


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Terminal Assembly, Ground (Includes Parts Marked *)
	815-0203	1	* Screw, Machine - Round Head * Brass (#10 - 32 x 7/8")
	871-0010	3	* Nut, Hex - Brass (#10 - 32)
	856-0003	1	* Washer, Lock - EIT (#10)
	854-0010	2	* Washer, Lock - IT (#10)
	526-0049	2	* Washer, Flat - Brass (13/64" ID x 7/32" OD x 1/32" THK)
2	813-0110	6	Screw, Machine - Round Head (#10 - 32 x 2")
3	854-0010	6	Washer, Lock - IT (#10)
4	302-0235	3	Clamp, Upper
5	302-0236	3	Clamp, Lower
6	302-0253	6	Shim

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	302-1365	3	Transformer, Current - Ratio 75/5 (Voltage Code 9X)
8	302-0729	1	Bracket, Mounting - Transformer
9	813-0100	6	Screw, Machine - Round Head (#10 - 32 x 1/2")
10	526-0008	6	Washer, Flat (13/64" ID x 7/16" OD x 1/32" THK)
11	856-0003	6	Washer, Lock - EIT (#10)
12	870-0053	6	Nut, Hex (#10 - 32)
13	302-0764	1	Bracket, Mounting - Transformer
14			Transformer, Current
	302-0865	3	Ratio 300/5 (Voltage Code 515)
	302-0866	3	Ratio 250/5 (Voltage Code 15)

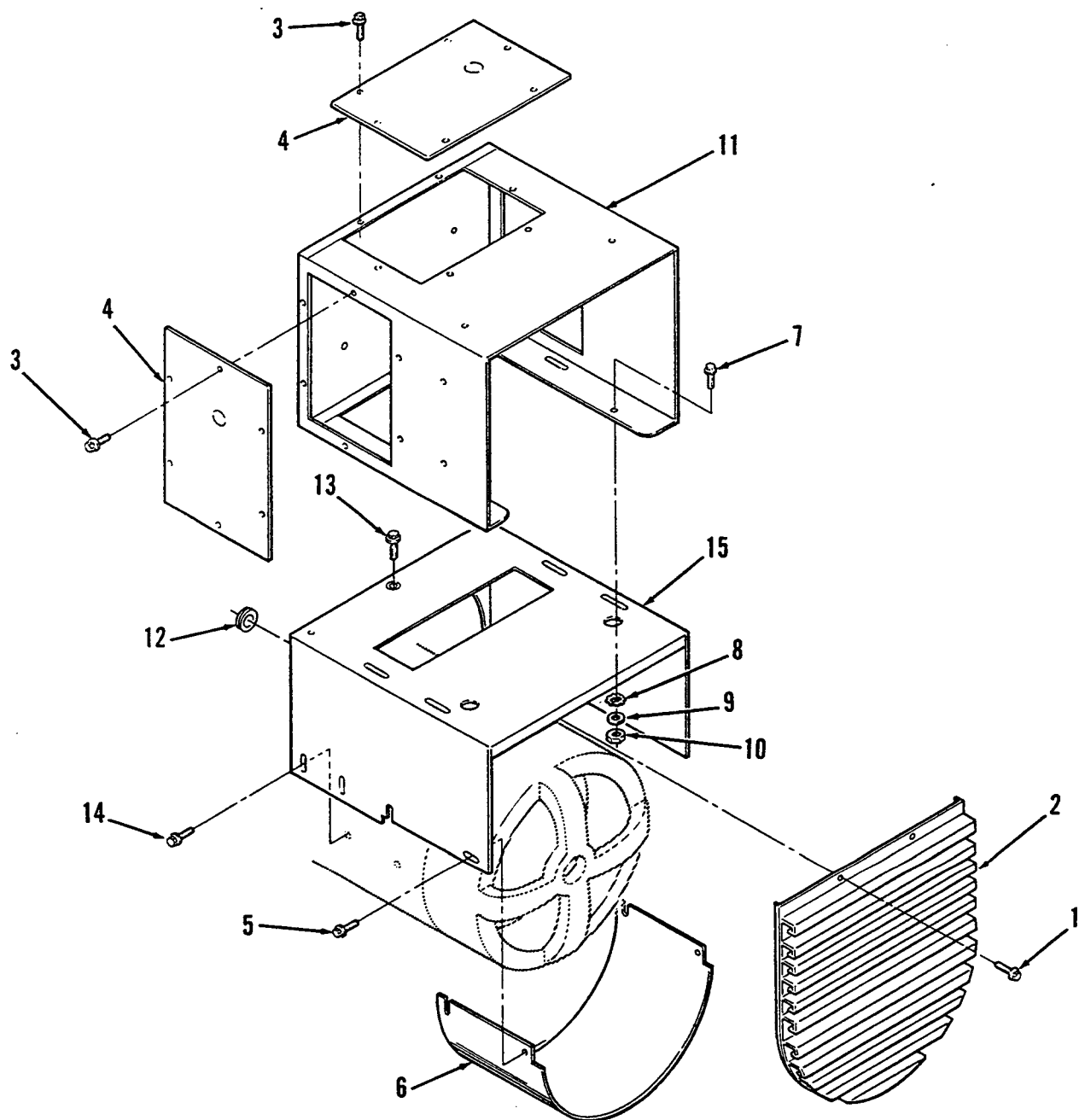
* Parts included in Ground Terminal Assembly.

Wattmeter



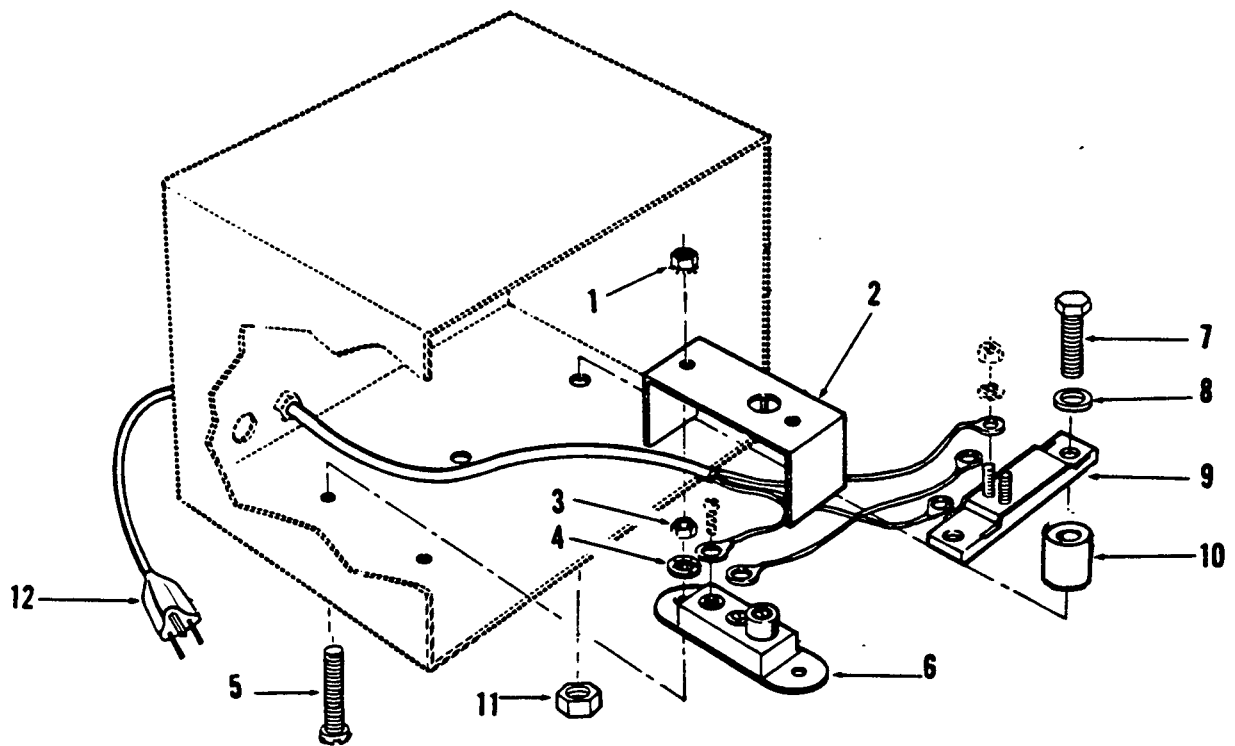
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0017	2	Screw, Lock (5/16 - 18 x 1/2")	7	402-0354	4	Mount, Shock
2	850-0045	2	Washer, Lock (5/16)	8	301-6987	1	Bracket, Mounting - Watts
3	862-0014	2	Nut, Hex (5/16 - 18)				Transducer
4	860-0008	8	Nut, Hex (#8 - 32)	9	338-1936	1	Harness, Wiring - Watts
5	856-0002	16	Washer, Lock - EIT (#8)				Transducer
6	302-1082	1	Transducer, Watts	10	302-1722	1	Meter, Watt - DC
	302-1083	1	3 Phase, 60 Hertz	11	302-1721-03	1	Dial, Wattmeter
			3 Phase, 50 Hertz				

Control Housing



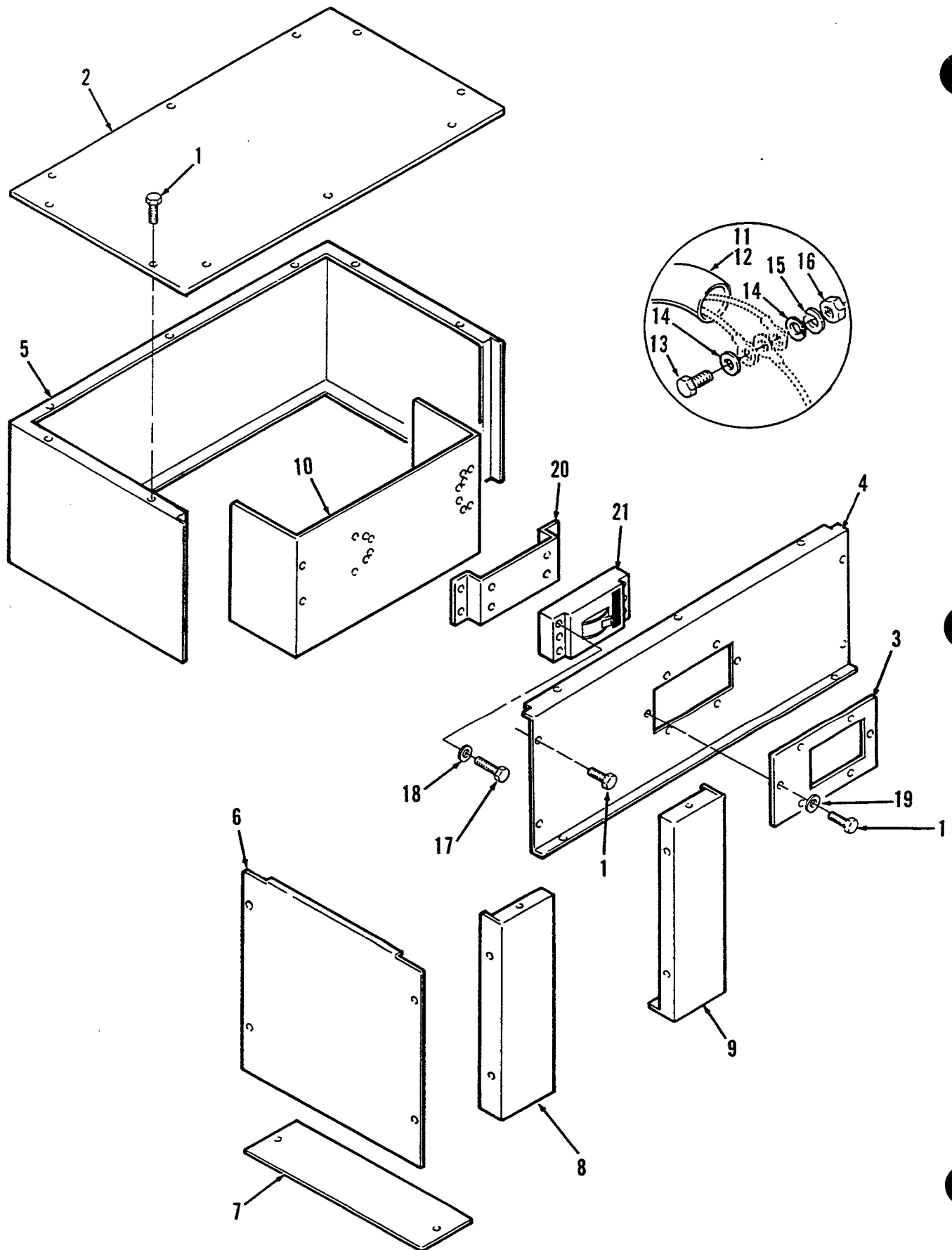
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0010	8	Screw, Self-Locking - Hex Washer Hd (1/4 - 20 x 1/2")	9	526-0018	5	Washer, Flat (17/64" ID x 5/8" OD x 1/16" THK)
2	234-0370	1	Grille, Air - Generator Inlet	10	870-0212	6	Nut, Hex (1/4 - 20)
3	815-0350	18	Screw, Tap - Hex Washer Head (#10 - 32 x 3/8")	11	301-3155	1	Housing, Box - Control
4	301-3156	3	Panel, Access	12	508-0203	1	Grommet
5	821-0010	4	Screw, Self-Locking - Hex Washer Hd (1/4 - 20 x 1/2")		508-0051	1	Used Thru October 1984
6	234-0361	1	Wrapper, Bell - End	13	821-0010	1	Used Beginning November 1984
7	821-0018	6	Screw, Self-Locking - Hex Washer Hd (1/4 - 20 x 5/8")	14	821-0014	8	Screw, Self-Locking - Hex Washer Hd (5/16 - 18 x 1/2")
8	856-0006	1	Washer, Lock - EIT (1/4)	15	301-3154	1	Saddle, Box - Control

Control Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0183	2	Nut, Self-Locking - Hex ET (#6 - 32)	7	800-0034	2	Screw, Cap - Hex Head (5/16 - 18 x 2-1/4")
2	301-1886	1	Cover, Thermostat	8	526-0113	2	Washer, Flat (11/32" ID x 1" OD x 3/32" THK)
3	860-0006	2	Nut, Hex (#6 - 32)	9	333-0151	1	Heater, Electrical
4	854-0006	2	Washer, Lock - IT (#6)	10	130-1107	2	Spacer, Sleeve
5	812-0070	2	Screw, Machine - Round Head (#6 - 32 x 1-1/4)	11	870-0257	2	Nut, Self-Locking (5/16 - 18)
6	309-0128	1	Thermostat, Adjustable	12	335-0161	1	Cable, Electrical

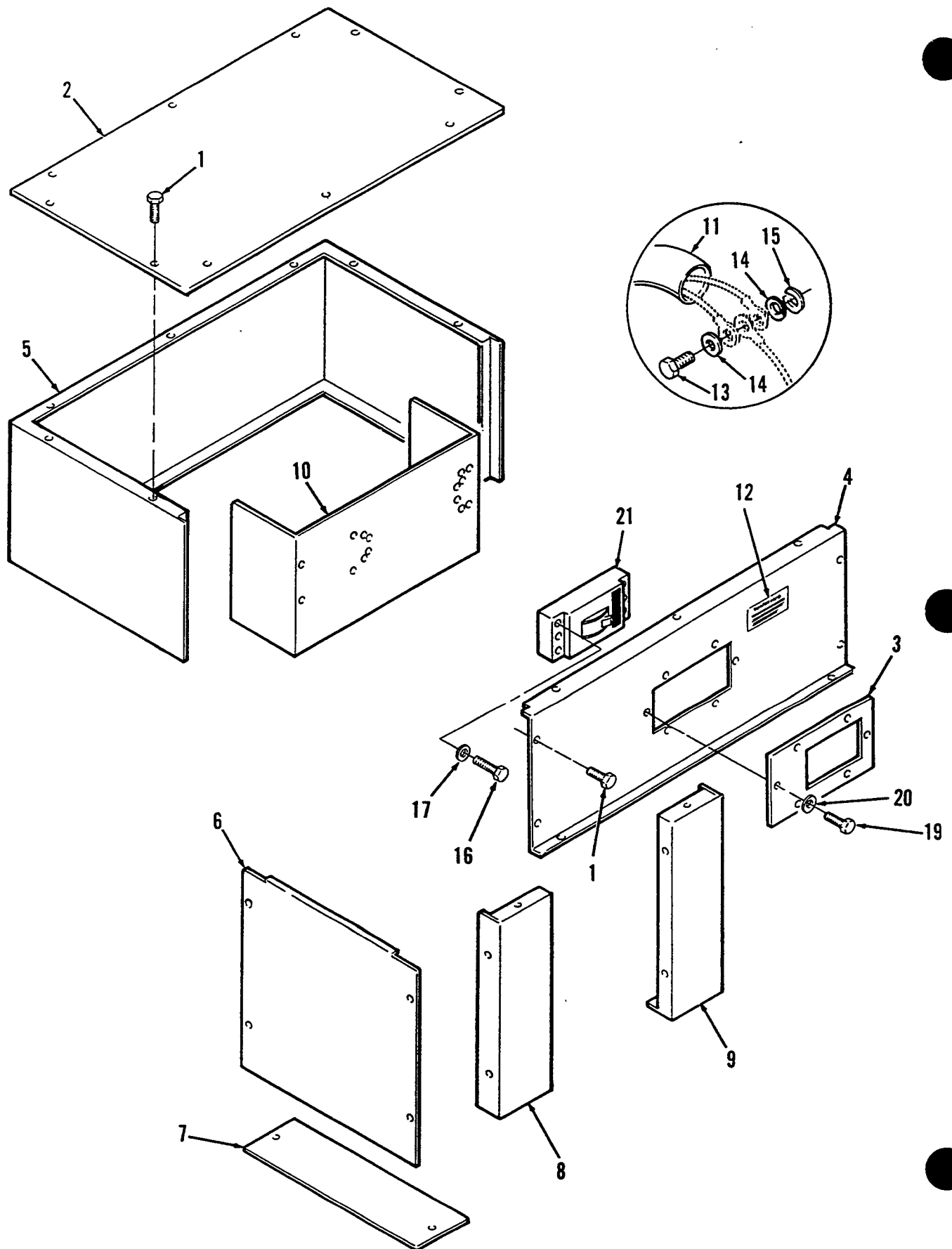
Circuit Breaker . (Spec A)



Circuit Breaker (Spec A)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0096	48	Screw, Machine - Round Head (#10 - 32 x 1/4")	320-0347	1	175 Amp, 240 VAC	
2	301-9406	1	Cover, Top	320-0426	1	175 Amp, 480/600 VAC	
3			Cover, Breaker - Circuit	320-0348	1	200 Amp, 240 VAC	
	301-9259	1	5" x 3-1/4" Breaker Hole	320-0447	1	200 Amp, 480/600 VAC	
	301-9458	1	3-1/4" x 1-1/2" Breaker Hole	320-0349	1	225 Amp, 240 VAC	
4	301-9403	1	Panel, Front	320-0269	1	225 Amp, 480/600 VAC	
5	301-9405	1	Wrapper, Enclosure	320-0422	1	250 Amp, 240 VAC	
6	301-9255	2	Cover, Access - Side	320-0445	1	250 Amp, 480/600 VAC	
7	301-9409	2	Panel, Access - Bottom	320-0423	1	300 Amp, 240 VAC	
8	301-9408	2	Panel, End	320-0401	1	300 Amp, 480/600	
9	301-9407	2	Panel, End	320-1231	1	Three Pole with Aux Contact	
10	301-9256	1	Bracket, Mounting - Circuit Breaker	320-1421	1	90 Amp, 480 VAC	
	301-9459	1	Used on Circuit Breakers 241 Volts and Up	320-1428	1	100 Amp, 480 VAC	
	301-9460	1	Used on Circuit Breakers 240 Volts and Below	320-0738	1	125 Amp, 600 VAC	
11			Sleeving, Shrinkable	320-0700	1	150 Amp, 480/600 VAC	
	898-0863	1	0.75" ID	320-0988	1	175 Amp, 240 VAC	
	898-0865	1	1.00" ID	320-1222	1	200 Amp, 480/600 VAC	
	898-0875	1	1.50" ID	320-0975	1	225 Amp, 240 VAC	
	898-0869	1	2.00" ID	320-0620	1	250 Amp, 480/600 VAC	
	898-1112	1	3.00" ID	320-0300	1	300 Amp, 240 VAC	
12			Sleeving, Fiberglass			300 Amp, 480/600 VAC	
	898-0974	1	0.75" ID	320-0556	1	Three Pole with 12 Volt Shunt Trip	
	898-0976	1	1.00" ID	320-0658	1	125 Amp, 600 VAC	
13	800-0028	5	Screw, Cap - Hex Head (5/16 - 18 x 1")	320-0453	1	150 Amp, 600 VAC	
14	526-0022	10	Washer, Flat (21/64" ID x 9/16" OD x 1/16" THK)	320-0392	1	175 Amp, 600 VAC	
15	850-0045	5	Washer, Lock - Spring (5/16)	320-0370	1	200 Amp, 600 VAC	
16	862-0015	5	Nut, Hex (5/16 - 18)			300 Amp, 600 VAC	
17	812-0156	4	Screw, Machine - Round Head (1/4 - 20 x 1-1/2")	320-1427	1	Three Pole with 24 Volt Shunt Trip	
18	850-0040	4	Washer, Lock - Spring (1/4)	320-1432	1	100 Amp, 480 VAC	
19	850-0030	6	Washer, Lock (#10)	320-1430	1	100 Amp, 600 VAC	
20			Breaker, Circuit	320-0688	1	125 Amp, 600 VAC	
			Two Pole	320-0731	1	150 Amp, 600 VAC	
	320-1061	1	125 Amp, 240 VAC	320-0529	1	175 Amp, 600 VAC	
	320-1062	1	150 Amp, 240 VAC	320-1433	1	200 Amp, 600 VAC	
	320-0344	1	175 Amp, 240 VAC	320-0438	1	225 Amp, 600 VAC	
	320-1409	1	200 Amp, 240 VAC			300 Amp, 600 VAC	
	320-0359	1	225 Amp, 240 VAC	320-0238	1	Three Pole with 120 Volt Shunt Trip	
	320-1411	1	250 Amp, 240 VAC	320-0315	1	125 Amp, 600 VAC	
	320-0420	1	300 Amp, 240 VAC	320-0215	1	150 Amp, 600 VAC	
			Three Pole	320-0573	1	175 Amp, 600 VAC	
	320-0384	1	60 Amp, 480 VAC	320-0285	1	200 Amp, 600 VAC	
	320-0416	1	60 Amp, 600 VAC	320-0708	1	225 Amp, 600 VAC	
	320-0414	1	70 Amp, 480 VAC	320-0268	1	250 Amp, 600 VAC	
	320-0417	1	70 Amp, 600 VAC			300 Amp, 600 VAC	
	320-1408	1	80 Amp, 240 VAC	320-0331	1	Three Pole with 480 Volt Shunt Trip	
	320-1407	1	80 Amp, 480 VAC			300 Amp, 600 VAC	
	320-1404	1	80 Amp, 600 VAC	320-1144	1	Two Pole with 12 or 24 Volt Shunt Trip and Aux Contact	
	320-0411	1	90 Amp, 240 VAC	320-1424	1	200 Amp, 240 VAC (24 V)	
	320-0379	1	90 Amp, 480 VAC			300 Amp, 240 VAC (24 V)	
	320-0418	1	90 Amp, 600 VAC			Three Pole with 12 or 24 Volt Shunt Trip and Aux Contacts	
	320-0412	1	100 Amp, 240 VAC	320-1300	1	90 Amp, 480 VAC (12 V)	
	320-0380	1	100 Amp, 480 VAC	320-0772	1	150 Amp, 240 VAC (12 V)	
	320-1405	1	100 Amp, 600 VAC	320-1422	1	150 Amp, 600 VAC (24 V)	
	320-1049	1	125 Amp, 240 VAC	320-1145	1	200 Amp, 240 VAC (24 V)	
	320-0446	1	125 Amp, 480/600 VAC	320-1035	1	225 Amp, 240 VAC (12 V)	
	320-0346	1	150 Amp, 240 VAC	320-1429	1	250 Amp, 600 VAC (24 V)	
	320-0425	1	150 Amp, 480/600 VAC				

Circuit Breaker . (Spec B)



Circuit Breaker (Spec B)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0350	52	Screw, Self-Locking - Hex	320-1459-10	1	225 Amp, 600 VAC	
2	301-9406	1	Washer Hd (#10 - 32 x 3/8")	320-1460-06	1	250 Amp, 600 VAC	
3			Cover, Top	320-1460-07	1	300 Amp, 600 VAC	
	301-9720	1	Cover, Breaker - Circuit			Two Pole with Aux Contacts	
			For use with 225 Amp Circuit	320-1515-06	1	125 Amp, 600 VAC	
			Breakers and below	320-1515-07	1	150 Amp, 600 VAC	
	301-9721	1	For use with 250 Amp Circuit	320-1515-08	1	175 Amp, 600 VAC	
			Breakers and above	320-1515-09	1	200 Amp, 600 VAC	
4	301-9403	1	Panel, Front	320-1515-10	1	225 Amp, 600 VAC	
5	301-9405	1	Wrapper, Enclosure	320-1516-06	1	250 Amp, 600 VAC	
6	301-9255	2	Cover, Access - Side	320-1516-07	1	300 Amp, 600 VAC	
7	301-9409	2	Panel, Access - Bottom			Three Pole with Aux Contact	
8	301-9408	2	Panel, End	320-1462-24	1	60 Amp, 480 VAC	
9	301-9407	2	Panel, End	320-1462-41	1	60 Amp, 600 VAC	
10			Bracket, Mounting - Circuit	320-1462-25	1	70 Amp, 480 VAC	
			Breaker	320-1462-42	1	70 Amp, 600 VAC	
	301-9716	1	Used on Circuit Breakers	320-1462-12	1	80 Amp, 240 VAC	
			600 Amps and below	320-1462-26	1	80 Amp, 480 VAC	
	301-9722	1	Used on Circuit Breakers	320-1462-43	1	80 Amp, 600 VAC	
			700 Amps and above	320-1462-13	1	90 Amp, 240 VAC	
11			Sleeving, Shrinkable	320-1462-27	1	90 Amp, 480 VAC	
	898-0863	1	0.75" ID	320-1462-44	1	90 Amp, 600 VAC	
	898-0865	1	1.00" ID	320-1462-14	1	100 Amp, 240 VAC	
	898-0867	1	1.50" ID	320-1462-28	1	100 Amp, 480 VAC	
	898-0869	1	2.00" ID	320-1462-45	1	100 Amp, 600 VAC	
12	98-2304	1	Silkscreen, Breaker - Circuit	320-1462-30	1	125 Amp, 480 VAC	
			(Warning)	320-1462-47	1	125 Amp, 600 VAC	
13	800-0028	5	Screw, Cap - Hex Head (5/16 -	320-1462-31	1	150 Amp, 480 VAC	
			18 x 1")	320-1462-48	1	150 Amp, 600 VAC	
14	526-0022	10	Washer, Flat (21/64" ID x	320-1463-08	1	175 Amp, 600 VAC	
			9/16" OD x 1/16" THK)	320-1463-09	1	200 Amp, 600 VAC	
15	850-0045	5	Washer, Lock - Spring (5/16)	320-1463-10	1	225 Amp, 600 VAC	
16	862-0015	5	Nut, Hex (5/16 - 18)	320-1464-06	1	250 Amp, 600 VAC	
17	812-0156	4	Screw, Machine - Round Head	320-1464-07	1	300 Amp, 600 VAC	
			(1/4 - 20 x 1-1/2")			Two Pole with 24 Volt	
18	850-0040	4	Washer, Lock - Spring (1/4)			Shunt Trip	
19	332-1445	3	Tie, Cable	320-1522-07	1	300 Amp, 600 VAC	
20	813-0096	6	Screw, Machine - Round Head			Two Pole with 120 Volt	
			(#10 - 32 x 1/4")			Shunt Trip	
21	850-0030	6	Washer, Lock (#10)	320-1524-08	1	175 Amp, 600 VAC	
22			Breaker, Circuit			Three Pole with 12 Volt	
			Two Pole			Shunt Trip	
	320-1512-06	1	125 Amp, 600 VAC	320-1466-47	1	125 Amp, 600 VAC	
	320-1512-07	1	150 Amp, 600 VAC	320-1466-48	1	150 Amp, 600 VAC	
	320-1512-08	1	175 Amp, 600 VAC	320-1467-08	1	175 Amp, 600 VAC	
	320-1512-09	1	200 Amp, 600 VAC	320-1467-09	1	200 Amp, 600 VAC	
	320-1512-10	1	225 Amp, 600 VAC	320-1468-07	1	300 Amp, 600 VAC	
	320-1513-06	1	250 Amp, 600 VAC			Three Pole with 24 Volt	
	320-1513-07	1	300 Amp, 600 VAC			Shunt Trip	
			Three Pole	320-1470-26	1	80 Amp, 480 VAC	
	320-1458-24	1	60 Amp, 480 VAC	320-1470-28	1	100 Amp, 480 VAC	
	320-1458-41	1	60 Amp, 600 VAC	320-1470-47	1	125 Amp, 600 VAC	
	320-1458-25	1	70 Amp, 480 VAC	320-1470-48	1	150 Amp, 600 VAC	
	320-1458-42	1	70 Amp, 600 VAC	320-1471-08	1	175 Amp, 600 VAC	
	320-1458-12	1	80 Amp, 240 VAC	320-1471-09	1	200 Amp, 600 VAC	
	320-1458-26	1	80 Amp, 480 VAC	320-1471-10	1	225 Amp, 600 VAC	
	320-1458-43	1	80 Amp, 600 VAC	320-1472-06	1	250 Amp, 600 VAC	
	320-1458-13	1	90 Amp, 240 VAC	320-1472-07	1	300 Amp, 600 VAC	
	320-1458-27	1	90 Amp, 480 VAC			Three Pole with 120 Volt	
	320-1458-44	1	90 Amp, 600 VAC			Shunt Trip	
	320-1458-14	1	100 Amp, 240 VAC	320-1474-47	1	125 Amp, 600 VAC	
	320-1458-28	1	100 Amp, 480 VAC	320-1474-48	1	150 Amp, 600 VAC	
	320-1458-45	1	100 Amp, 600 VAC	320-1475-09	1	200 Amp, 600 VAC	
	320-1458-30	1	125 Amp, 480 VAC	320-1475-10	1	225 Amp, 600 VAC	
	320-1458-47	1	125 Amp, 600 VAC	320-1476-06	1	250 Amp, 600 VAC	
	320-1458-31	1	150 Amp, 480 VAC	320-1476-07	1	300 Amp, 600 VAC	
	320-1458-48	1	150 Amp, 600 VAC			Three Pole with 480 Volt	
	320-1459-08	1	175 Amp, 600 VAC			Shunt Trip	
	320-1459-09	1	200 Amp, 600 VAC	320-1484-07	1	300 Amp, 600 VAC	

Circuit Breaker (Spec B)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Two Pole with 24 Volt Shunt Trip & Auxiliary Contacts				Three Pole with 24 Volt Shunt Trip & Auxiliary Contacts
	320-1536-09	1	200 Amp, 600 VAC				100 Amp, 600 VAC
			Three Pole with 12 Volt Shunt Trip & Auxiliary Contacts		320-1490-45	1	200 Amp, 600 VAC
					320-1491-09	1	225 Amp, 600 VAC
	320-1486-27	1	90 Amp, 480 VAC		320-1491-10	1	250 Amp, 600 VAC
	320-1487-07	1	150 Amp, 600 VAC		320-1492-06	1	300 Amp, 600 VAC
	320-1487-10	1	225 Amp, 600 VAC		320-1492-07	1	