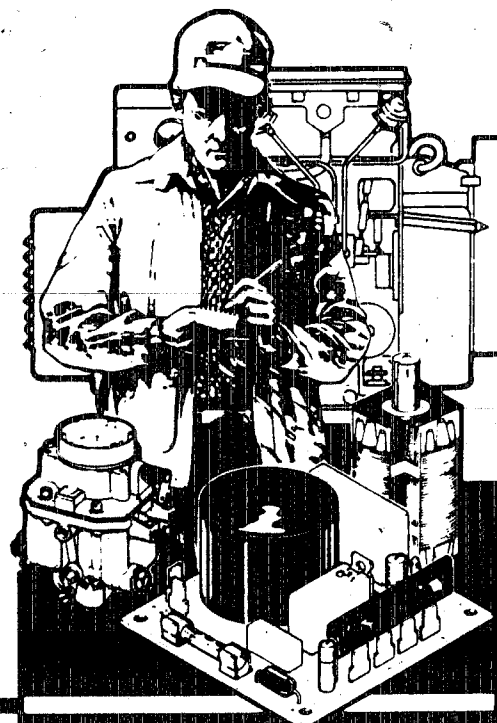


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Onan

Parts Manual

D V J
GenSet



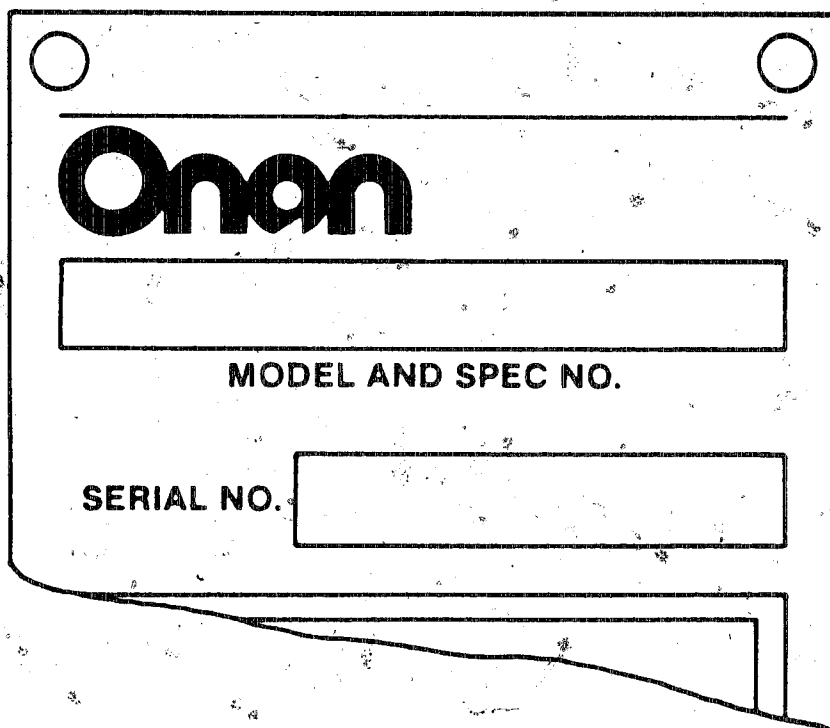
Onan Service Parts

982-0229
9-86 (Spec A)
Replaces 1-86 (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 nameplate template with rounded corners. At the top, there are two circular mounting holes. Below them is the Onan logo. Under 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 nameplate is folded over.

Onan

MODEL AND SPEC NO.

SERIAL NO.

M-1149

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

Index

Actuator, Governor	D11	Kit, Gasket - Block - Cylinder	A5
Adapter, Exhaust	B14	Kit, Gasket - Head - Cylinder	B5
Alternator	C10	Kit, Gasket - Pump - Water	D1
Alternator - Components	C11		
Arm, Rocker	B7	Light, Indicator	E7, E9
Armature, Starter	C7	Line, Fuel	C6
	A7	Line, Injection - Fuel	C3
Bearing, Crankshaft	A7	Liner, Cylinder	A5
Bearing, Rod - Connecting	C13	Manifold, Exhaust	B9
Belt Set, Drive - V	A5	Manifold, Intake	C1
Block, Cylinder	F4	Meter, Ampere	E7, E9
Box, Entrance	B3	Meter, Frequency	E9
Bracket, Terminal	F5	Meter, Time - Running	E7
Breaker, Circuit		Meter, Tach	E7
	C7	Meter, Volt	E9
Cable, Battery	D11	Meter, Watt	E13
Cable, Pickup - Magnetic	A7	Muffler, Exhaust	B14
Camshaft	D5		
Cap, Radiator	B14	Nozzle, Fuel	B7
Cap, Rain - Exhaust	D12		
Chassis	D8	Pan, Oil	A13
Cleaner, Air - Standard	C7	Pickup, Magnetic	E4
Clutch, Starter	C7	Piston	A7
Coil, Field - Starter	E7	Pump, Injection - Fuel	C3
Control, Engine	E9	Pump, Injection - Fuel (Components)	C5
Control, Generator	B2	Pump, Oil	A9
Cooler, Oil	D5	Pump, Water	D1
Cooling System	A11		
Cover, Gear	B7	Radiator	D6
Cover, Head - Cylinder	A7	Regulator, Voltage - Alternator	C11
Crankshaft		Resistor, Current - Cross	E12
	A13	Rod, Connecting	A7
Drain, Oil		Rod, Push	A7
	D8	Rotor, Alternator	C11
Element, Cleaner - Air	B14	Rotor, Exciter	E1
Exhaust System		Rotor, Generator	E1
	C13		
Fan, Cooling	D8	Seal, Oil - Front	A11
Filter, Air	C6	Seal, Oil - Rear	B1
Filter, Fuel	B3	Seat, Valve	B5
Filter, Oil	B1	Sender, Level - Lo Coolant	D5
Flywheel		Sender, Pressure - Oil	B3
	E7	Sender, Temperature - Lo Engine	D1
Gauge, Pressure - Oil	E7	Sender, Temperature - Oil	B2
Gauge, Temperature - Oil	E7	Sender, Temperature - Water	B3
Gauge, Temperature - Water	B1	Solenoid, Start/Stop	C9
Gear, Ring	A11	Starter	C7
Gearcase	E1	Stator, Alternator	C11
Generator	D11	Stator, Exciter	E1
Governor, Electronic	D5	Stator, Generator	E1
Guard, Belt	D5	Switch, Level - Lo Coolant	D5
Guard, Fan		Switch, Overspeed	E5
	E9	Switch, Pressure - Oil	B3
Harness, Wiring - Control (AC)	E7	Switch, Safety - Oil	B3
Harness, Wiring - Control (DC)	C7	Switch, Shutdown - Pre Oil	B3
Harness, Wiring - Control To Engine	D5	Switch, Temperature - Hi Engine	B3
Harness, Wiring - Lo Coolant Level	E13	Switch, Temperature - Lo Engine	D1
Harness, Wiring - Watts Transducer	E11		
Harness, Wiring - Transformer	B5	Thermostat	D1
Head, Cylinder	F3	Thermostat, Cooler - Oil	B2
Heater, Control	D9	Thermostat, Temp - Hi Water	B3
Heater, Coolant - Engine	E3	Thermostat, Temp - Pre Water	D1
Heater, Generator	B7	Transducer, Watt	E13
Holder, Nozzle	A13	Transformer, Current	E11, E12
Hose, Drain - Oil	D5	Turbocharger	B9
Hose, Radiator	F1	Turbocharger Components	B11
Housing, Control	B1		
Housing, Flywheel	D13	Valve, Delivery - Fuel	C5
Housing, Set		Valve, Drain - Oil	A13
	D1	Valve, Exhaust	B5
Impeller, Pump - Water	A5	Valve, Intake	B5
Indicator, Level - Oil	D8		
Indicator, Service - Air Cleaner			

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

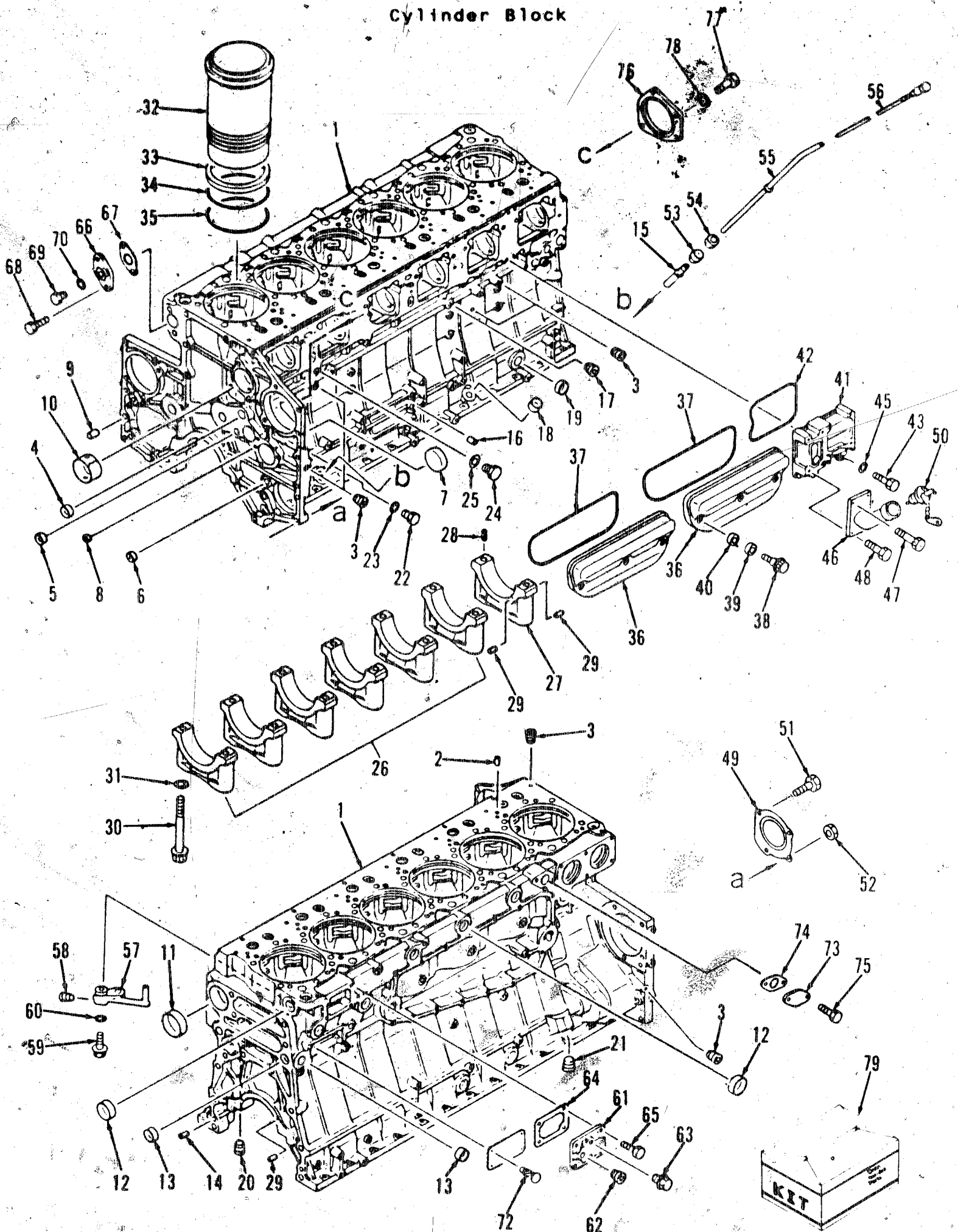
MODEL IDENTIFICATION	RATING	RPM RATING	BATTERY VOLTAGE
285.0 DVJ - */# @	285,000 WATTS	1500 RPM	24 VDC
350.0 DVJ - */# @	350,000 WATTS	1800 RPM	24 VDC

Electrical Data Table

*VOLTAGE CODE	VOLTS	HERTZ	WIRE	PHASE	NOTES
47	220/380 120/208 120/240 127/220 139/240 240/416 254/440 277/480 220/380	60	12	3	+
547	120/208 127/220 110/190 110/220 115/220 115/230 200/346 220/380 240/416 254/480 230/400	50	12	3	+

- * - 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

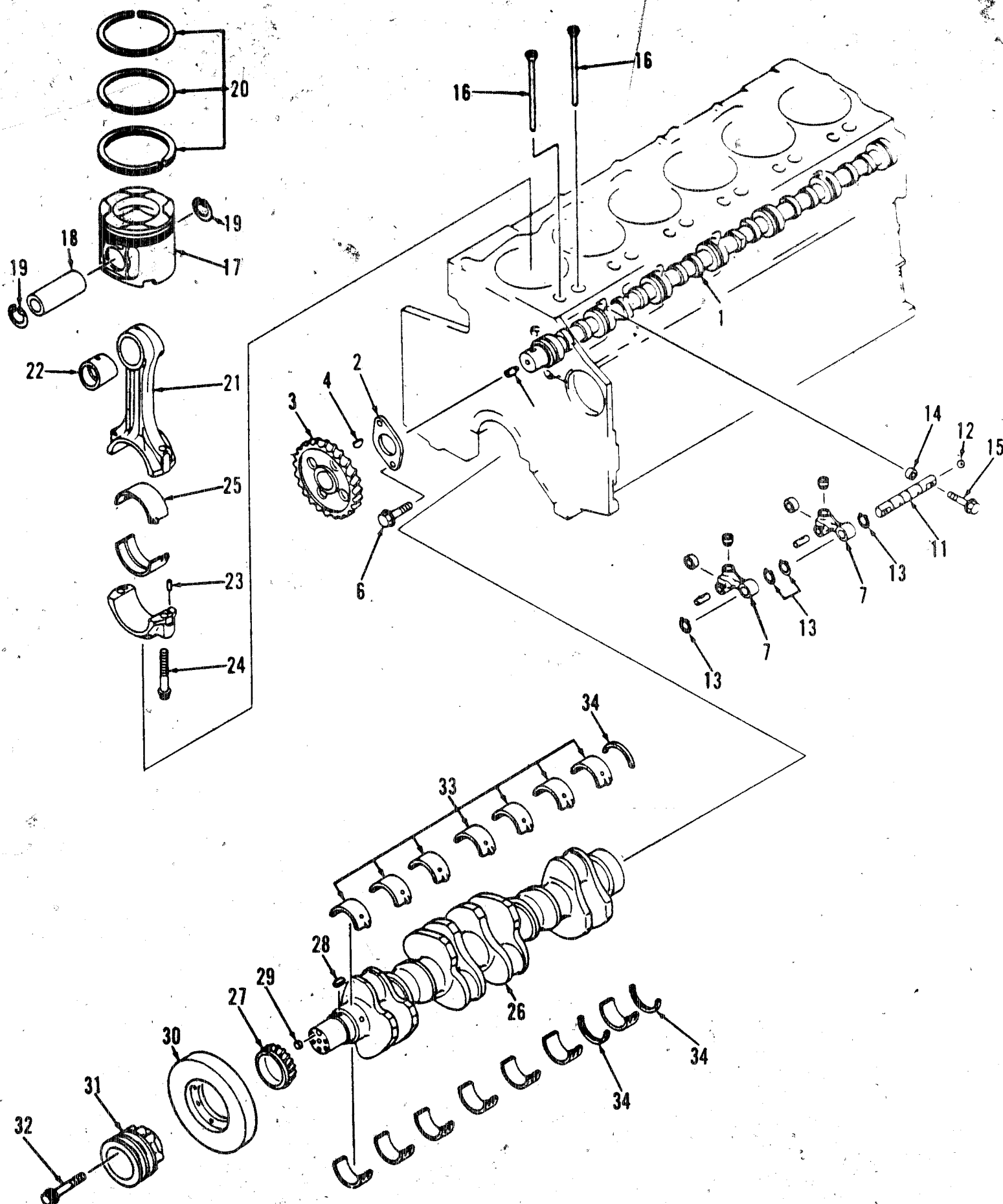


Cylinder Block

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-1961	1	Block Assembly, Cylinder (Includes Parts Marked *)	39	186-0219	6	Washer
2	186-0743	12	*Pin, Dowel	40	186-0220	6	Packing
3	186-0154	13	*Plug	41	186-1835	1	Cover
4	186-0695	2	*Plug	42	186-1836	1	Seal, O-Ring
5	186-0693	2	*Plug	43	186-1179	2	Bolt
6	186-1747	2	*Plug	45	186-0103	2	Washer
7	186-1809	1	*Bushing	46	186-1839	1	Filler, Oil
8	186-0692	1	*Plug	47	186-1263	1	Bolt
9	186-1815	3	*Pin	48	186-1179	3	Bolt
10	186-1807	7	*Bushing, Camshaft	49	186-1813	1	Cover
11	186-1744	1	*Plug	50	186-1736	1	Cap
12	186-1743	7	*Plug	51	186-1673	1	Bolt
13	186-1943	2	*Plug	52	186-1700	3	Nut
14	186-1298	2	*Pin, Dowel	53	186-1250	1	Collar
15	186-1232	2	*Bushing	54	186-1251	1	Nut
16	186-1405	2	*Pin, Dowel	55	186-2072	1	Guide, Gauge
17	186-1223	1	*Plug	56	186-1832	1	Gauge, Oil
18	186-0746	1	*Plug	57	186-1810	1	Nozzle (Includes Plug)
19	186-0157	2	*Plug	58	186-1810	1	Plug (Included Nozzle)
20	186-0155	1	*Plug	59	186-1534	6	Bolt
21	186-1739	1	*Plug	60	186-0904	6	Washer
22	186-1737	1	*Plug	61	186-1962	1	Cover
23	186-0145	1	*Gasket	62	186-0907	2	Plug
24	186-1738	2	*Plug	64	186-1817	1	Gasket
25	186-0147	2	*Gasket	65	186-1268	4	Bolt
26	186-1804	6	*Cap, Metal - Main	66	186-1816	1	Flange
27	186-1805	1	*Cap, Metal - Main	67	186-2069	1	Gasket
28	186-0122	2	*Pin, Dowel	68	186-1306	2	Bolt
29	186-1806	6	*Pin	69	186-1738	1	Plug
30	186-1808	14	*Bolt	70	186-0147	1	Gasket
31	186-0507	14	*Washer	72	186-0753	4	Screw
32	186-1963	6	Liner, Cylinder	73	186-1811	1	Plate
33	186-1820	6	Seal, Crevice	74	186-1921	1	Gasket
34	186-1819	6	Seal, O-Ring - Center	75	186-1268	2	Bolt
35	186-1818	6	Seal, O-Ring - Lower	76	186-1812	1	Cover
36	186-1834	2	Cover	77	186-1306	1	Bolt
37	186-1248	2	Seal, O-Ring	78	186-0104	1	Washer
38	186-1838	6	Bolt	79	186-2076	1	Gasket Kit, Block - Cylinder

* Parts included in 186-1961 Cylinder Block Assembly

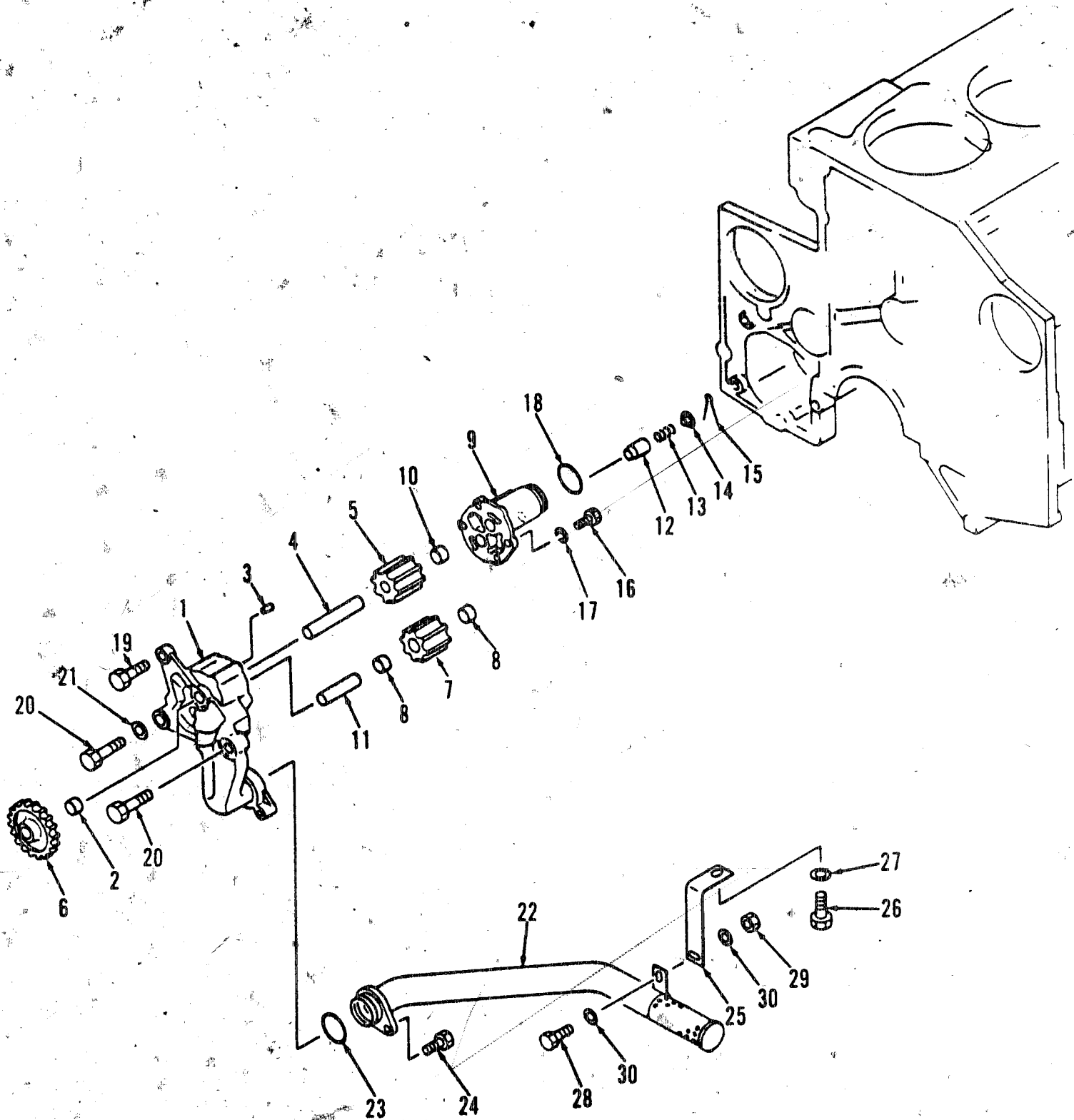
Crankshaft, Camshaft, Piston, And Connecting Rod



Crankshaft, Camshaft, Piston, And Connecting Rod

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-1865	1	Camshaft		186-1864	6	0.25mm Undersize
2	186-1867	1	Plate, Thrust		186-1863	6	0.50mm Undersize
3	186-1866	1	Gear		186-1862	6	0.75mm Undersize
4	186-1342	1	Key		186-1861	6	1.00mm Undersize
5	186-1934	1	Shaft	26	186-1967	1	Crankshaft Assembly (Includes Gear, Key and Pin)
6	186-1941	2	Bolt				
7	186-1868	2	Lever Assembly (Includes Socket, Cam Roller, and Pin)	27	186-1852	1	Gear
11	186-1869	1	Shaft	28	186-1307	1	Key
13	186-1714	4	Ring, Snap	29	186-1969	1	Pin
14	186-1870	12	Ring, Dowel	30	186-1976	1	Damper Assembly
15	186-1871	12	Bolt	31	186-1970	1	Pulley
16	186-1872	12	Rod, Push	32	186-1942	6	Bolt
17	186-2028	6	Piston	33			Bearing, Main
18	186-1973	6	Pin, Piston		186-1840	7	Standard
19	186-1459	12	Ring, Snap		186-1850	7	0.25mm Undersize
20	186-1972	6	Ring Set, Piston		186-1848	7	0.50mm Undersize
21	186-1974	6	Rod, Connecting (Includes Bushings, Pin, and Bolt)		186-1846	7	0.75mm Undersize
22	186-1975	1	Bushing		186-1844	7	1.00mm Undersize
23	186-1334	2	Pin, Dowel	34			Washer, Thrust
24	186-1855	2	Bolt		186-1841	1	Standard
25			Bearing, Rod - Connecting		186-1851	1	0.25mm Oversize
	186-1854	6	Standard		186-1849	1	0.50mm Oversize
					186-1847	1	0.75mm Oversize
					186-1845	1	1.00mm Oversize

Oil Pump, And Suction Pipe

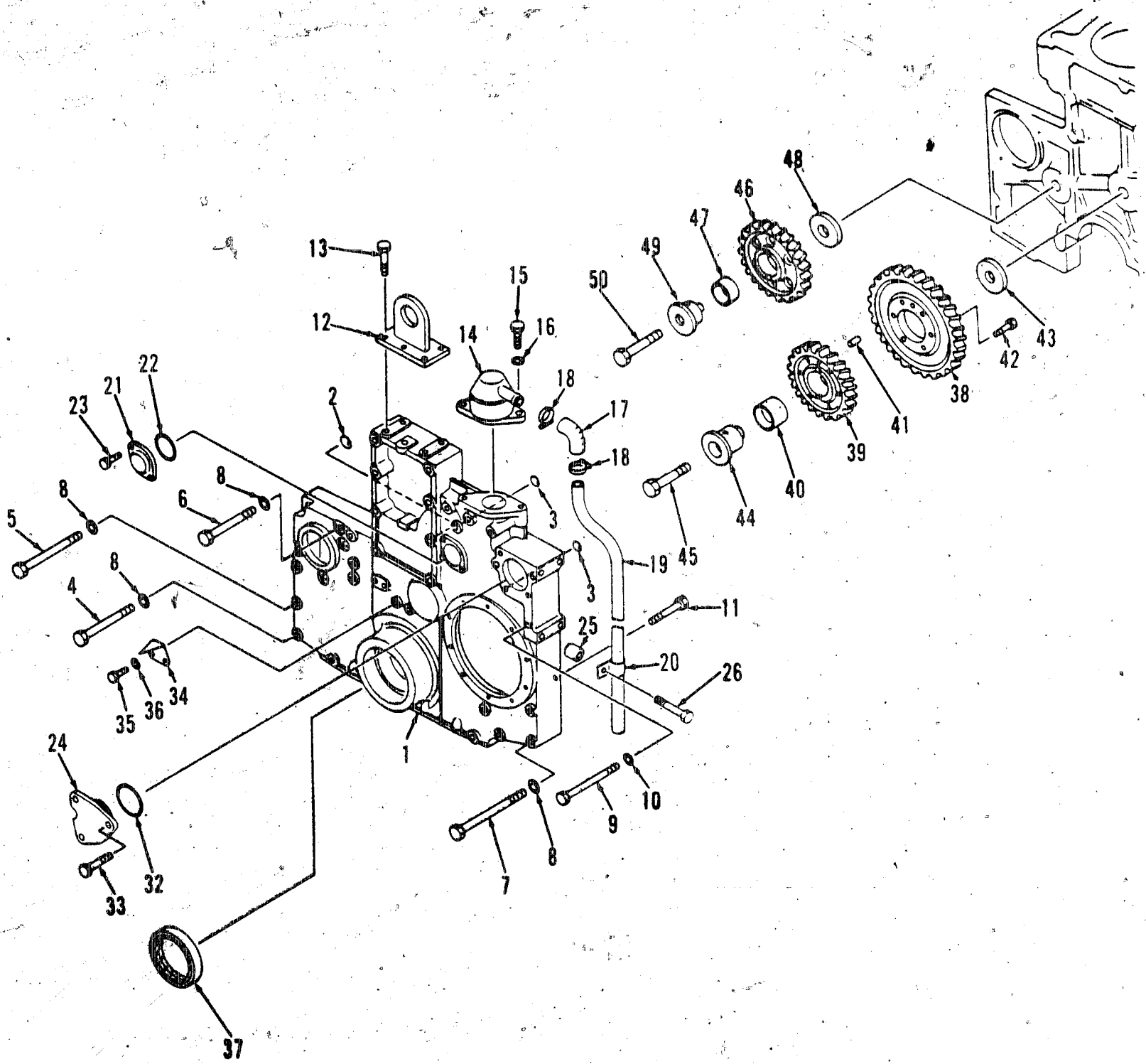


Oil Pump, And Suction Pipe

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-1977	1	Pump Assembly, Oil (Includes Parts Marked *)	15	186-1713	1	*Pin, Cotter
2	186-0323	1	*Bushing	16	720-1037	4	*Bolt
3	186-0328	1	*Pin	17	186-0095	4	*Washer
4	186-1887	1	*Shaft	18	186-1731	1	Seal, O-Ring
5	186-1980	1	*Gear, Drive	19	186-1208	1	Bolt
6	186-1889	1	*Gear, Drive - Oil Pump	20	720-1076	2	Bolt
7	186-1979	1	*Gear	21	186-0109	1	Washer
8	186-0323	2	*Bushing	22	186-1895	1	Strainer
9	186-1978	1	*Cover Assembly (Includes Bushing and Shaft)	23	186-1732	1	Seal, O-Ring
10	186-0323	1	*Bushing	24	186-1360	1	Bolt
11	186-1888	1	*Shaft	25	186-1896	1	Bracket
12	186-0330	1	*Valve	26	720-1073	1	Bolt
13	186-0331	1	*Spring	27	186-0104	1	Washer
14	186-1354	1	*Retainer	28	186-1361	1	Bolt
				29	186-0090	1	Nut
				30	186-0103	2	Washer

* Parts included in 186-1977 Oil Pump Assembly.

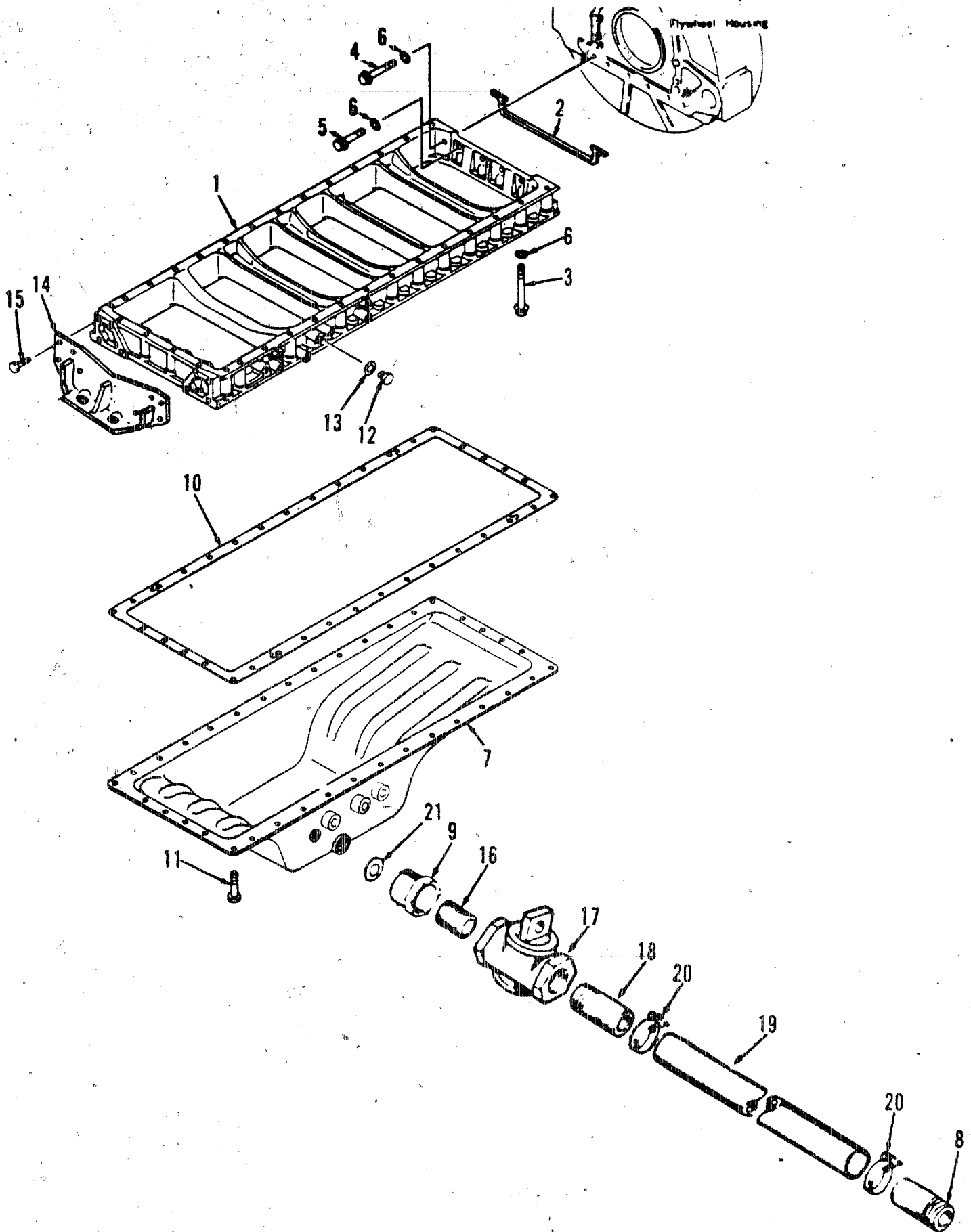
Gear Cover



Gear Cover

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-1824	1	Cover	25	186-1756	1	Spacer
2	186-1742	2	Plug	26	186-1526	1	Bolt
3	186-1741	2	Plug	32	186-1724	1	Seal, O-Ring
4	186-1678	6	Bolt	33	186-1265	3	Bolt
5	186-1686	2	Bolt	34	186-1825	1	Pointer
6	186-1677	1	Bolt	35	186-1667	2	Bolt
7	186-1690	3	Bolt	36	186-0703	2	Washer
8	186-0104	12	Washer	37	186-1277	1	Seal, Front
9	186-1685	3	Bolt	38	186-1860	1	Gear, Idler
10	186-0103	3	Washer	39	186-1859	1	Gear Assembly, Idler (Includes Bushing)
11	186-1526	2	Bolt	40	186-1858	1	Bushing
12	186-1827	1	Hanger	41	186-1272	1	Pin, Dowel
13	186-0501	4	Bolt	42	720-1038	6	Bolt
14	186-1842	1	Breather	43	186-1822	1	Plate, Thrust
15	186-1265	2	Bolt	44	186-1821	1	Shaft
16	186-0103	2	Washer	45	186-1692	1	Bolt
17	186-1769	1	Hose	46	186-1856	1	Gear Assembly, Idler (Includes Bushing)
18	186-0168	2	Clamp	47	186-1857	1	Bushing
19	186-1843	1	Tube	48	186-1822	1	Plate, Thrust
20	186-1754	1	Clip	49	186-1823	1	Shaft
21	186-0771	1	Cover	50	186-1691	1	Bolt
22	186-0772	1	Seal, O-Ring				
23	186-1668	2	Bolt				
24	186-1814	1	Cover				

Oil Pan

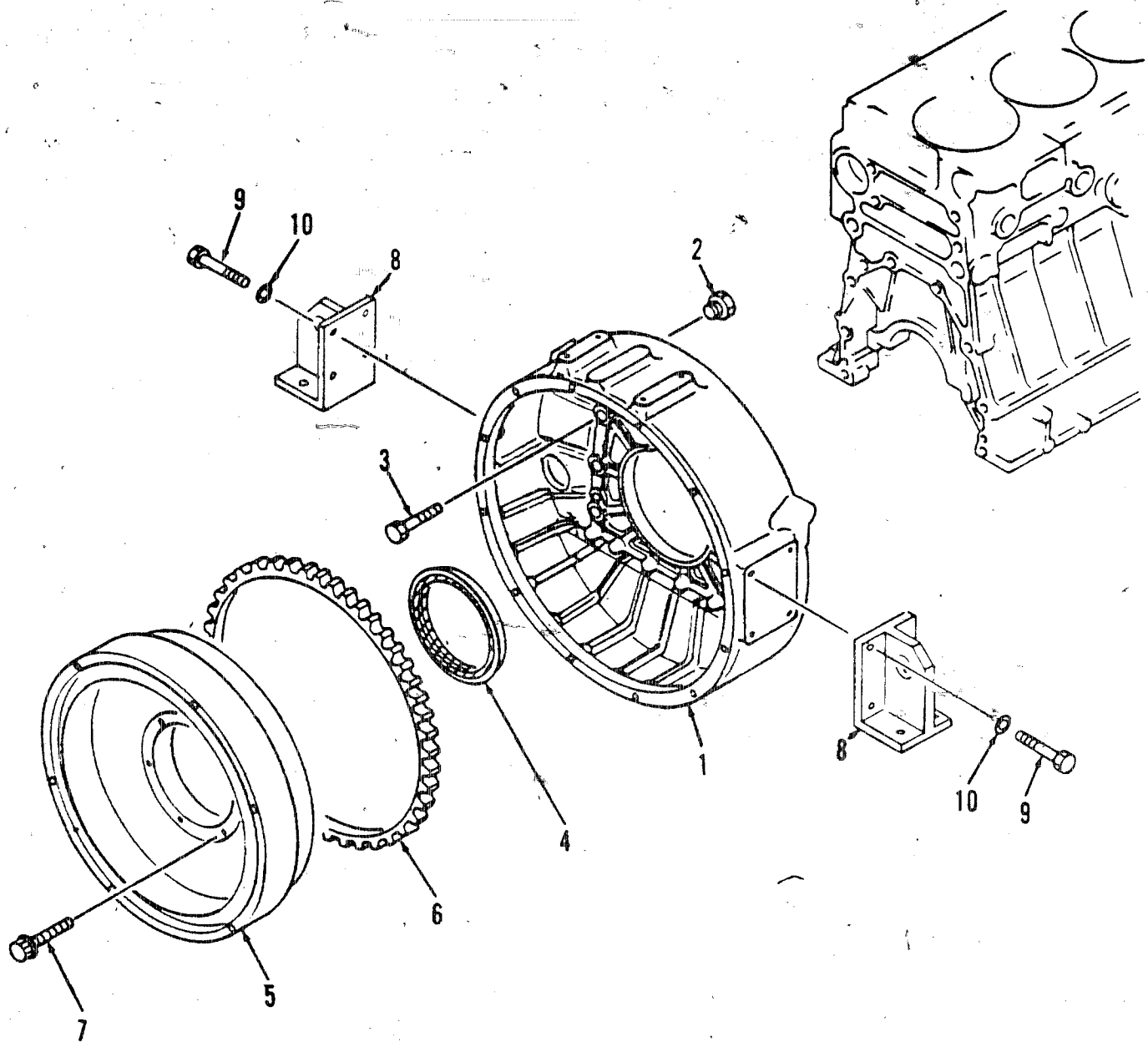


Oil Pan

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-1830	1	Frame
2	186-1831	1	Gasket
3	186-1944	32	Bolt
4	186-1945	2	Bolt
5	186-1946	4	Bolt
6	186-0103	38	Washer
7	186-1964	1	Pan, Oil
8	505-0185	1	Nipple, Half
9	505-1355	1	Adapter, Pipe
10	186-1833	1	Gasket
11	186-1179	36	Bolt

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12	186-0150	1	Plug
13	186-0146	1	Gasket
14	186-1826	1	Bracket
15	186-1674	8	Bolt
16	505-0100	1	Nipple, Pipe
17	504-0011	1	Valve, Shutoff
18	505-0674	2	Nipple, Half
19	503-0098	1	Hose, Drain (14")
20	503-0197	2	Clip, Hose - Corbin
21	509-0207	1	Seal, O-Ring

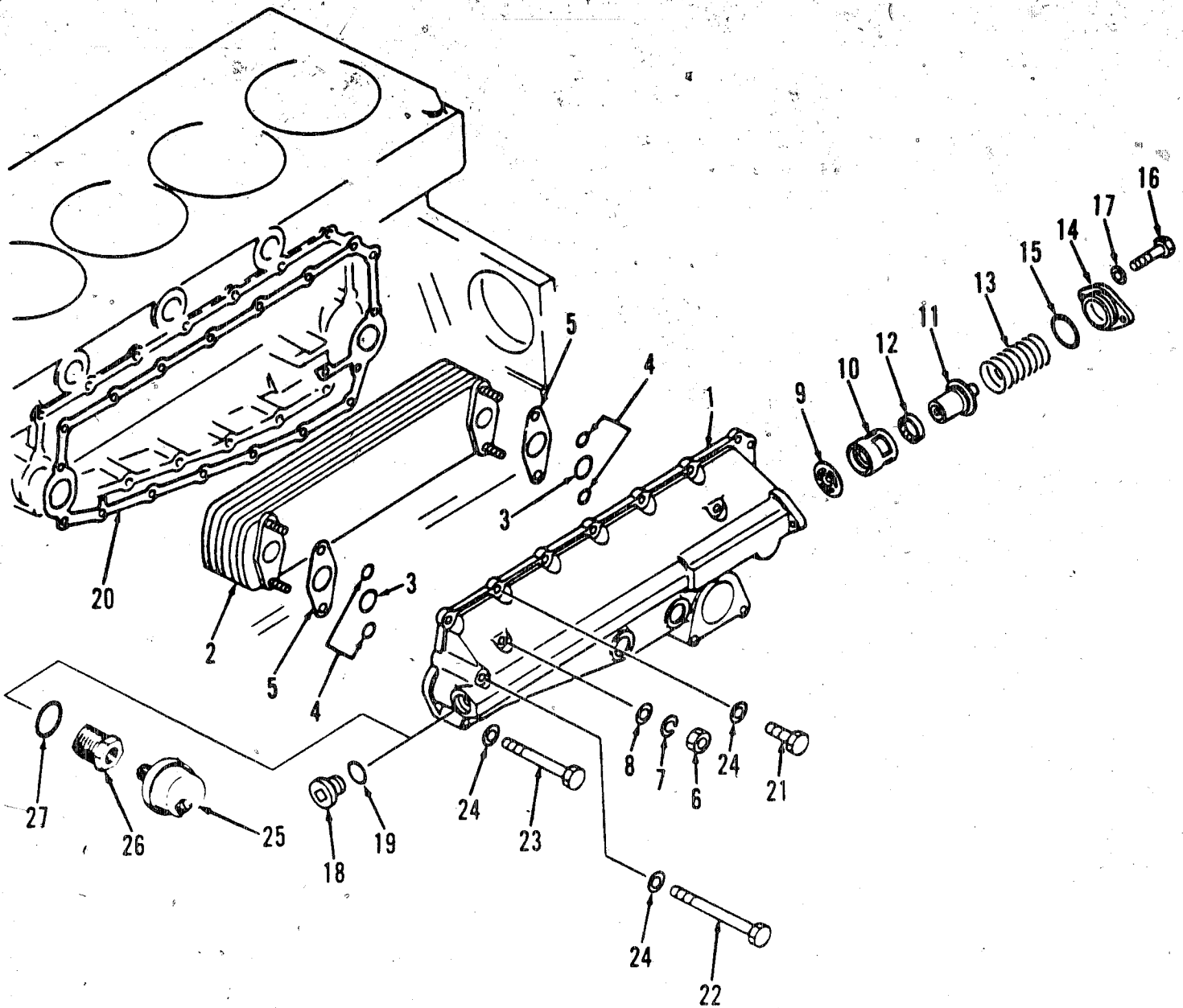
Flywheel, And Flywheel Housing



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-1828	1	Housing, Flywheel
2	186-0407	1	Plug
3	186-1666	8	Bolt
4	186-1291	1	Seal, Rear
5	186-1971	1	Flywheel Assembly (Includes Ring Gear)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	186-1968	1	Gear, Ring
7	186-1853	6	Bolt
8	186-1829	2	Bracket
9	186-1679	8	Bolt
10	186-1225	8	Washer

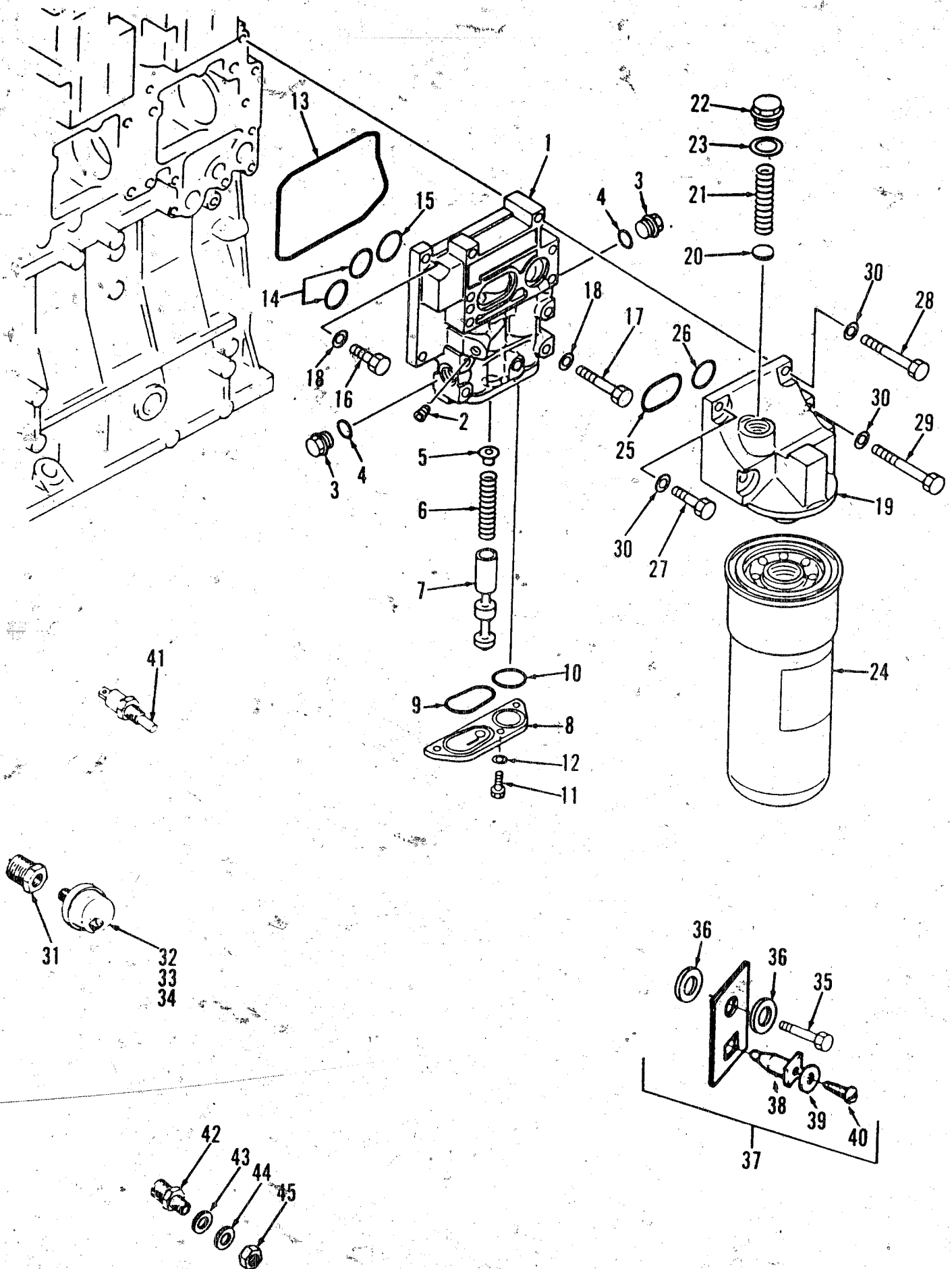
Oil Cooler



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-1993	1	Cover
2	186-2030	1	Element, Cooler, Oil
3	186-1731	2	Seal, O-Ring
4	186-1394	4	Seal, O-Ring
5	186-1904	2	Gasket
6	186-1256	4	Nut
7	186-0100	4	Washer, Spring
8	186-0103	4	Washer
9	186-1401	1	Plate
10	186-1400	1	Collar
11	186-1906	1	Thermostat, Cooler, Oil
12	186-1399	1	Seal
13	186-1903	1	Spring
14	186-1902	1	Cover

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
15	186-1390	1	Seal, O-Ring
16	186-1387	2	Bolt
17	186-0102	2	Washer
18	186-1218	1	Plug
19	186-1905	1	Seal, O-Ring
20	186-1907	1	Gasket
21	186-1268	14	Bolt
22	186-1447	1	Bolt
23	186-1368	1	Bolt
24	186-0103	16	Washer
25	193-0353	1	Sender, Temperature - Oil
26	502-1010	1	Adapter, Pipe
27	509-0224	1	Seal, O-Ring

Oil Filter

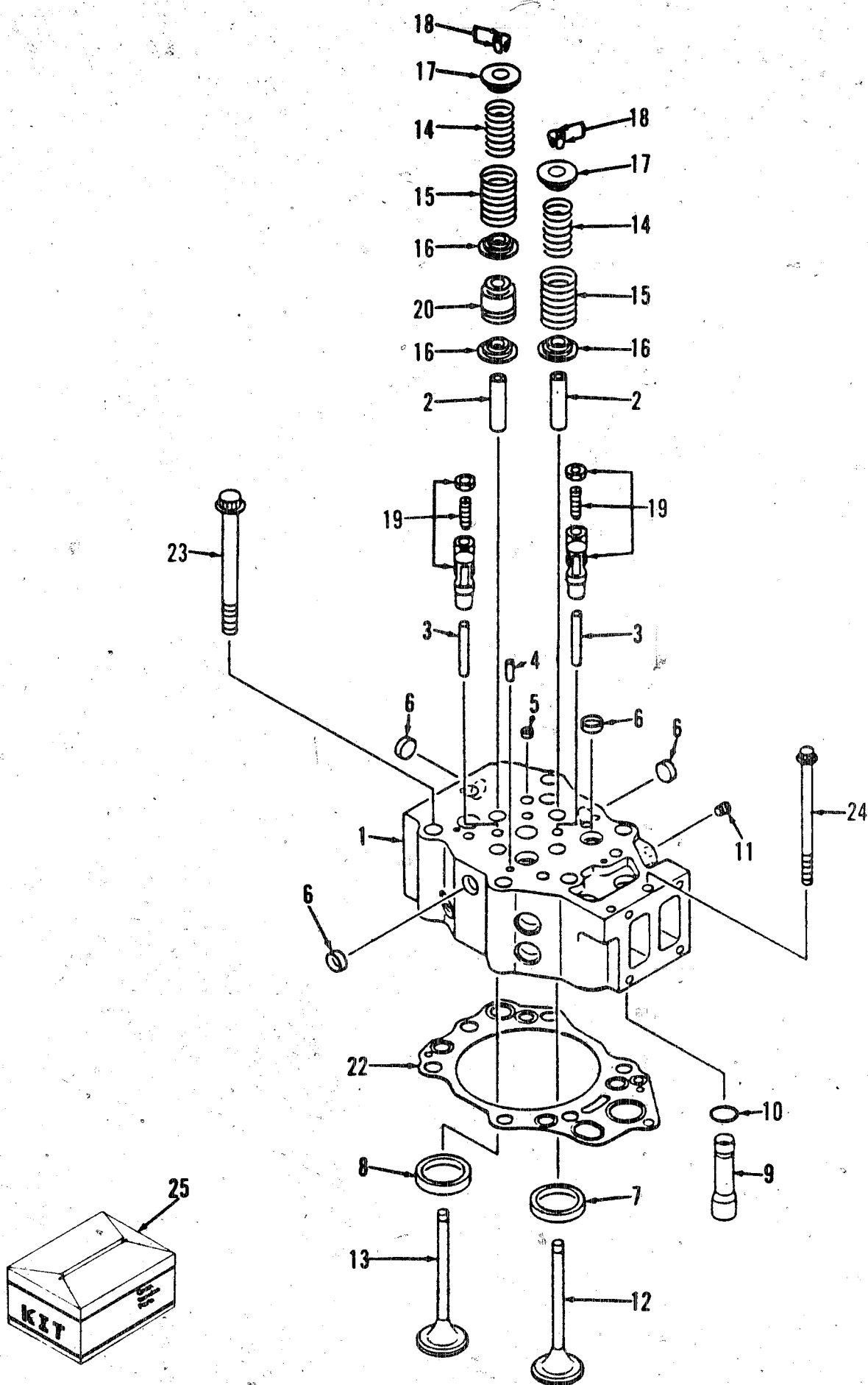


Oil Filter

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-1982	1	Body
2	186-1223	1	Plug
3	186-1892	2	Plug
4	186-0141	2	Seal, O-Ring
5	186-1894	1	Seat
6	186-1891	1	Spring
7	186-1890	1	Valve
8	186-1983	1	Cover
9	186-1893	1	Seal, O-Ring
10	186-1732	1	Seal, O-Ring
11	720-1035	3	Bolt
12	186-0102	3	Washer
13	186-1837	1	Seal, O-Ring
14	186-0142	2	Seal, O-Ring
15	186-1732	1	Seal, O-Ring
16	186-1179	2	Bolt
17	186-1368	5	Bolt
18	186-0103	7	Washer
19	186-1981	1	Bracket
20	186-1376	1	Packing
21	186-1364	1	Spring
22	186-1377	1	Cap
23	186-1378	1	Packing
24	186-1365	1	Filter, Oil
25	186-1733	1	Seal, O-Ring

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
26	186-1730	1	Seal, O-Ring
27	186-1266	1	Bolt
28	186-1264	3	Bolt
29	186-1267	1	Bolt
30	186-0103	5	Washer
31	502-0917	3	Adapter, Pipe
32	309-0272	1	Switch, Shutdown - Pre Oil
33	193-0244	1	Sender, Pressure - Oil
34	309-0169	1	Switch, Safety - Oil
35	718-1074	1	Screw, Cap - Hex Head (M12 x 1.75 x 30mm)
36	856-0013	2	Washer, Lock - EIT (1/2)
37	332-2739	1	Bracket Assembly, Terminal (Includes Nut, Washer, And Screw)
38	870-0196	1	Nut, Insulating
39	508-0015	1	Washer, Fiber
40	809-0035	1	Screw, Round Head (#8 x 3/4")
41	309-0522	1	Thermostat, Temperature - Hi Water
42	193-0375	1	Sender, Temperature - Water
43	526-0008	1	Washer, Flat (#10)
44	850-0030	1	Washer, Lock (#10)
45	871-0010	1	Nut, Cap - Hex Head (#10 - 32)

Cylinder Head

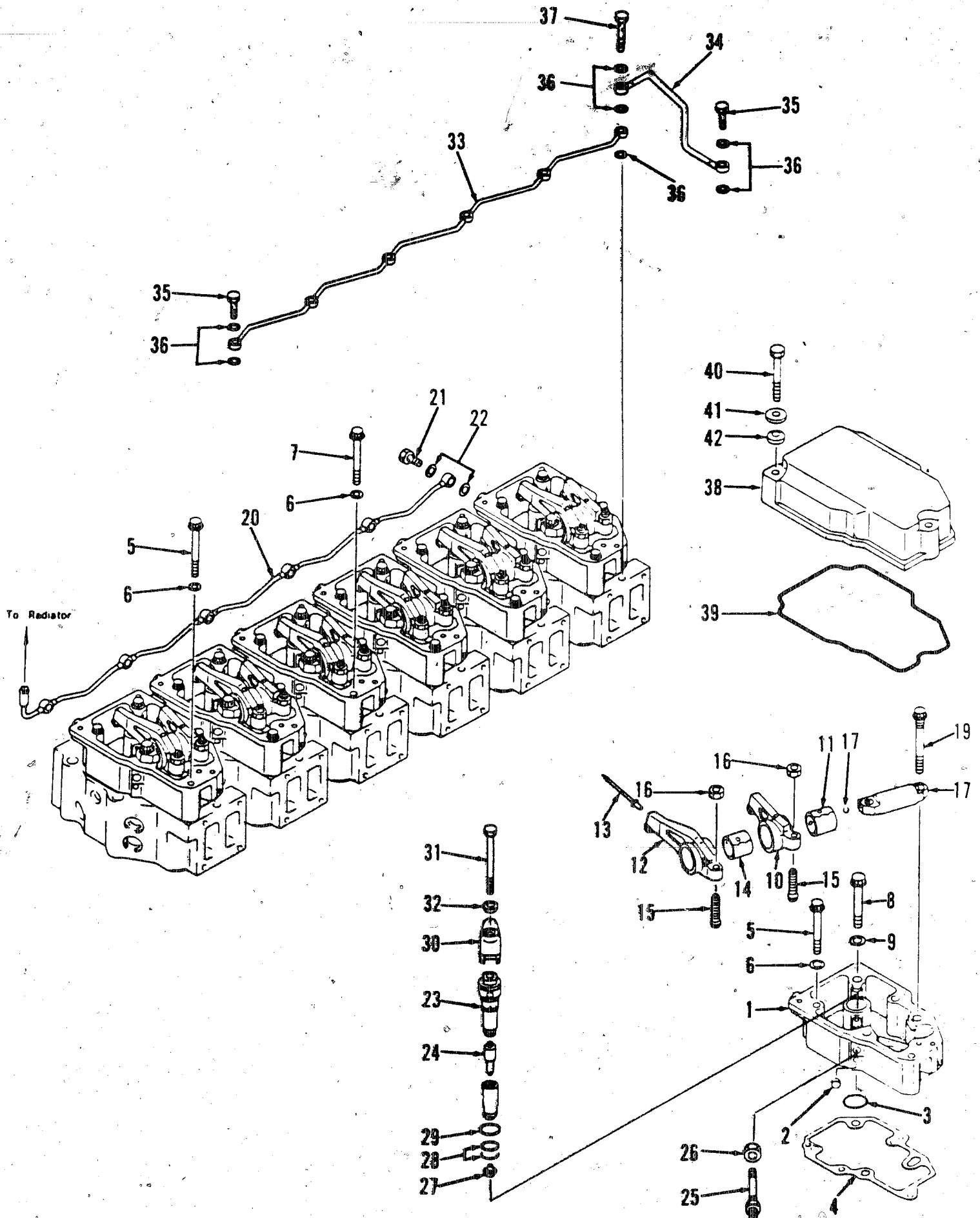


Cylinder Head

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-1947	6	Head Assembly, Cylinder - With Valve (Includes Parts Marked *)	186-1798	2	0.75mm Oversize	
	186-1948	1	* Less Valve (Includes Parts Marked +).	186-1795	2	1.00mm Oversize	
2	186-1797	4	**Guide, Valve	9	186-1778	1	**Pipe
3	186-1777	2	**Guide, Crosshead	10	186-1729	1	**Seal, O-Ring
4	186-0743	2	**Pin, Dowel	11	186-0156	1	**Plug
5	186-0693	1	**Plug, Expansion	12	186-1873	2	*Valve, Intake
6	186-1144	12	**Plug, Expansion	13	186-1874	2	*Valve, Exhaust
7	186-1780	2	* Standard	14	186-1875	4	*Spring, Inner
	186-1803	2	0.25mm Oversize	15	186-1876	4	*Spring, Outer
	186-1801	2	0.50mm Oversize	16	186-1878	4	*Seat, Lower
	186-1799	2	0.75mm Oversize	17	186-1877	4	*Seat, Upper
	186-1796	2	1.00mm Oversize	18	186-1770	8	*Cotter
8	186-1779	2	* Standard	19	186-1886	12	Crosshead Assembly (Includes Crosshead, Screw, and Nut)
	186-1802	2	0.25mm Oversize	20	186-1879	2	*Seal, Valve - Exhaust
	186-1800	2	0.50mm Oversize	22	186-1782	6	Gasket, Head
				23	186-1781	36	Bolt, Head
				24	186-1156	6	Bolt, Head
				25	186-2075	1	Gasket Kit, Head - Cylinder

* Parts included in 186-1947 Cylinder Head Assembly.
+ Parts included in 186-1948 Cylinder Head Assembly.

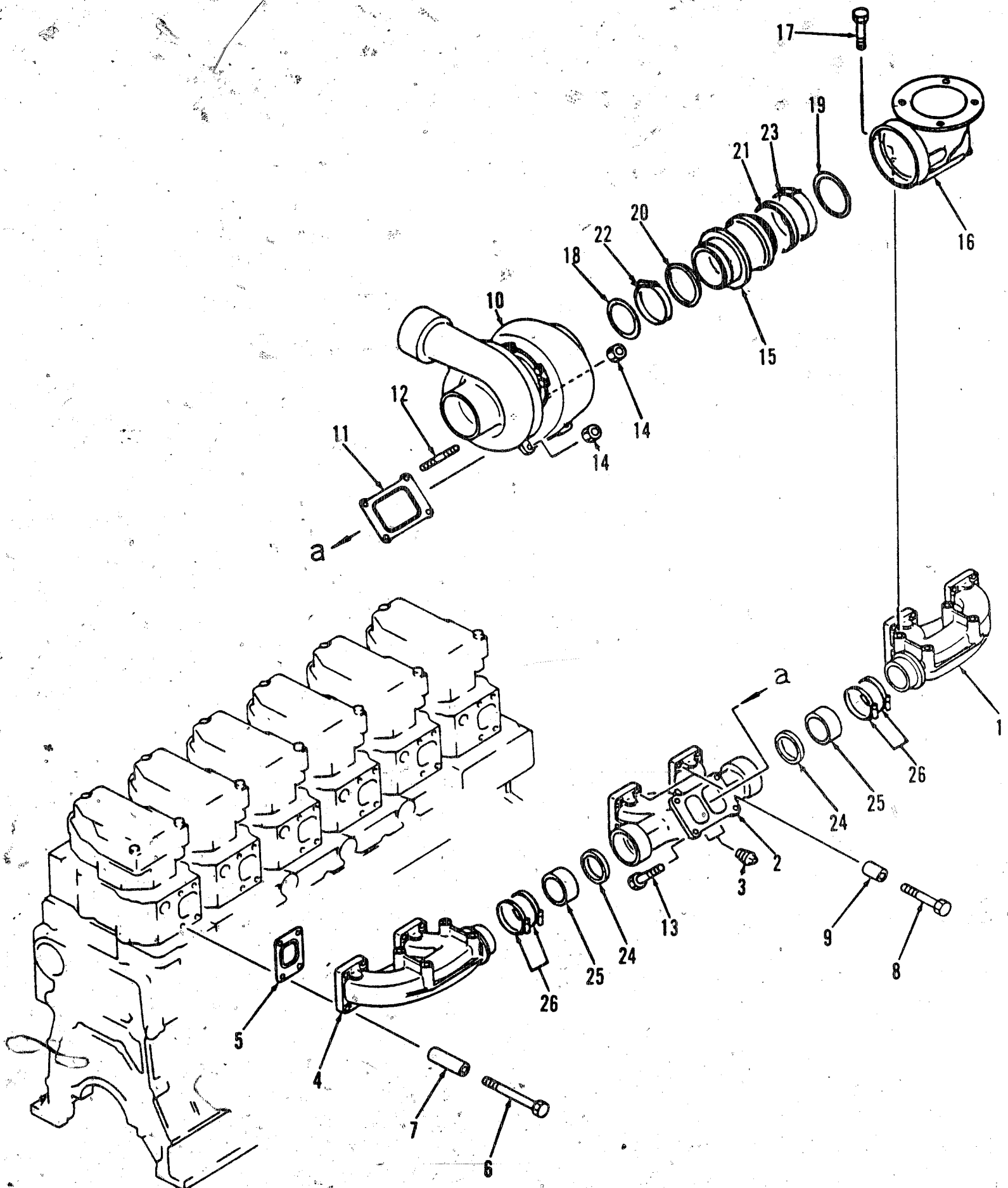
Fuel Nozzle, Rocker Arm, Cover And Housing



Fuel Nozzle, Rocker Arm, Cover And Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-1787	6	Housing, Arm - Rocker	21	186-0860	6	Bolt, Joint
2	186-0692	18	Plug, Expansion	22	186-0145	12	Gasket
3	186-1788	6	Seal, O-Ring	23	186-2019	6	Holder Assembly, Nozzle (Includes Nozzle, Connector, and Nut)
4	186-1790	6	Gasket	24	186-2020	1	Nozzle
5	186-1938	17	Bolt	25	186-2021	1	Connector
6	186-1704	18	Washer	26	186-1702	1	Nut
7	186-1413	1	Bolt	27	186-1924	6	Gasket
8	186-1940	6	Bolt	28	186-1727	12	Seal, O-Ring
9	186-1705	6	Washer	29	186-1789	6	Seal, O-Ring
	186-1881	6	Arm Assembly, Intake (Includes Arm, and Bushing)	30	186-1923	6	Holder
10	186-1882	1	Arm, Intake	31	186-1684	6	Bolt
11	186-1883	1	Bushing	32	186-1922	6	Washer
	186-1884	6	Arm Assembly, Exhaust (Includes Arm, Rivet, and Bushing)	33	186-2015	1	Tube
12	186-1885	1	Arm, Exhaust	34	186-2046	1	Tube
13	186-2071	1	Rivet, Crossed	35	186-1745	6	Bolt, Joint
14	186-1883	1	Bushing	36	186-0144	15	Gasket
15	186-1166	12	Screw	37	186-1930	1	Bolt, Joint
16	186-1170	12	Nut	38	186-1793	6	Cover, Housing - Rocker Arm
17	186-1880	6	Shaft Assembly, Arm - Rocker (Includes Shaft, and Ball)	39	186-1794	6	Gasket
19	186-1939	12	Bolt	40	186-1672	18	Bolt
20	186-1786	1	Tube, Air	41	186-1791	18	Washer
				42	186-1792	18	Rubber

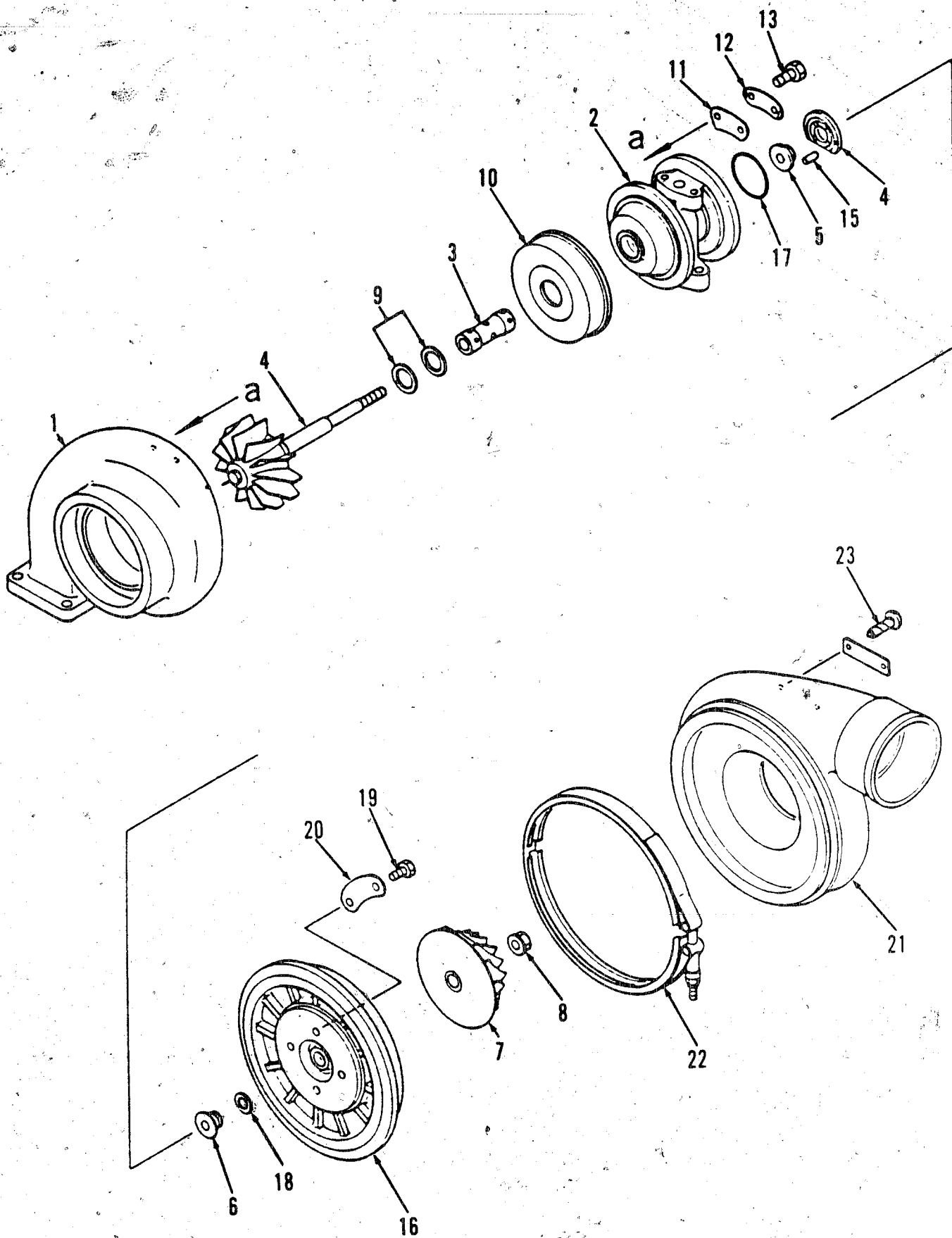
Exhaust Manifold, And Turbocharger



Exhaust Manifold, And Turbocharger

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-1950	1	Manifold, Exhaust - Front	14	186-1194	4	Nut
2	186-1951	1	Manifold, Exhaust - Center	15	186-1958	1	Joint
3	186-0153	1	Plug	16	186-1957	1	Elbow, Exhaust
4	186-1952	1	Manifold, Exhaust Rear	17	186-1681	4	Bolt
5	186-1785	6	Gasket	18	186-1956	1	Seal, O-Ring
6	186-1689	22	Bolt	19	186-1953	1	Seal, O-Ring
7	186-0212	22	Spacer	20	186-1959	1	Seal
8	186-1682	2	Bolt	21	186-1960	1	Seal
9	186-1784	2	Spacer	22	186-1750	1	Clamp
10	186-2067	1	Turbocharger Assembly (See Separate Page For Components)	23	186-1751	1	Clamp
11	186-1191	1	Gasket	24	186-1954	2	Seal
12	186-1773	2	Stud	25	186-1955	2	Seal
13	186-1196	2	Bolt	26	186-1749	4	Clamp

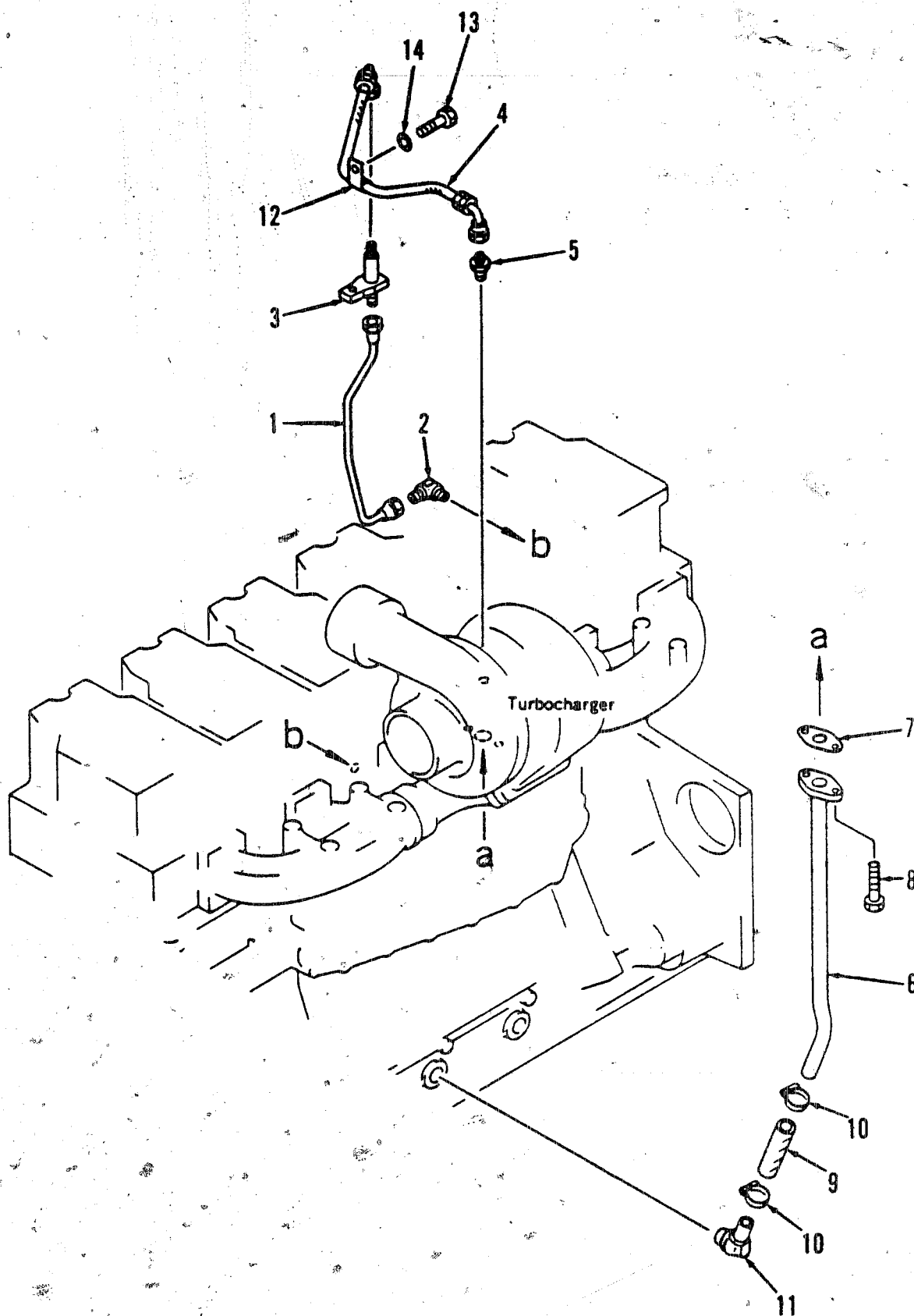
Turbocharger Components



Turbocharger Components

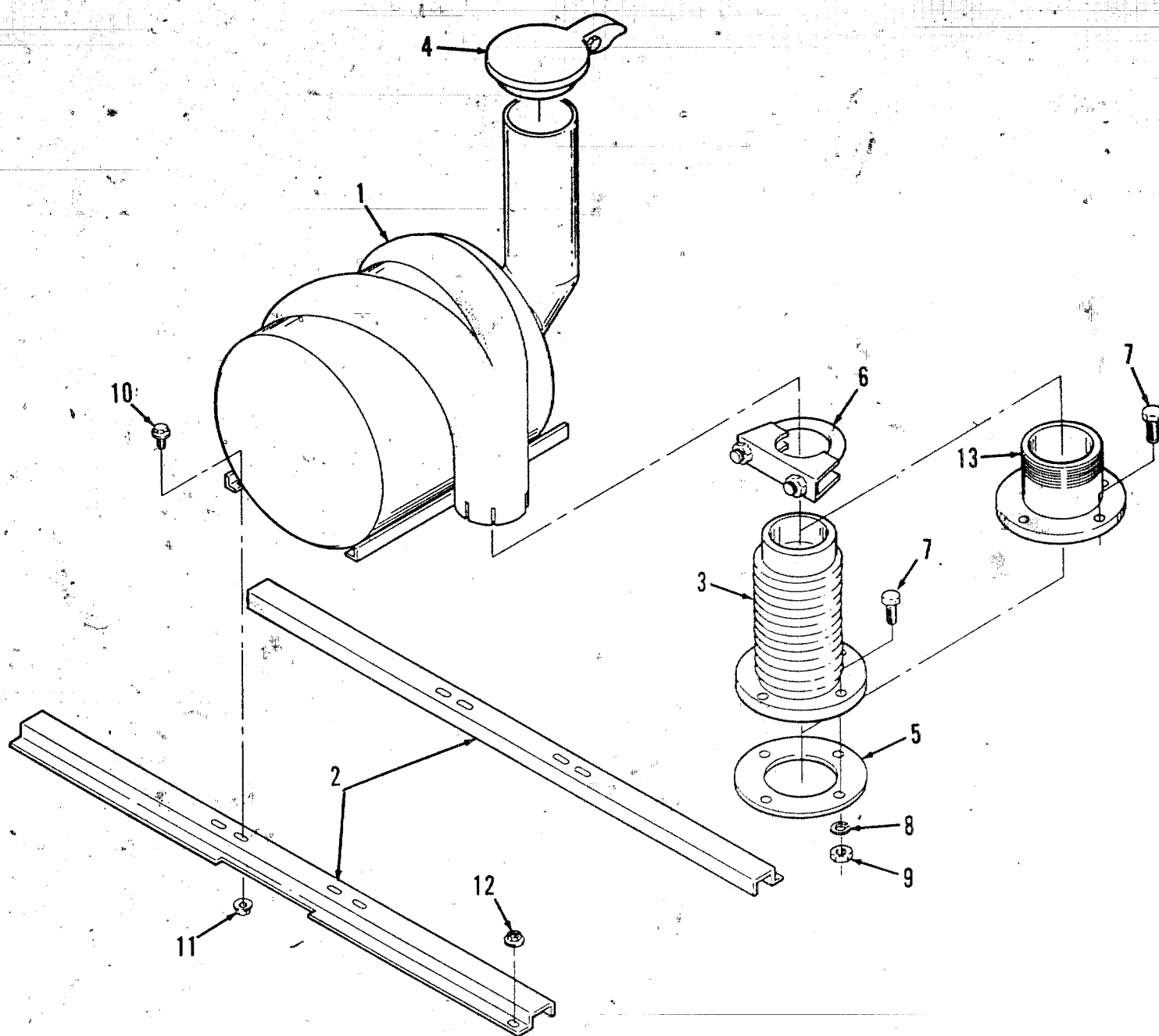
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-2066	1	Housing, Turbine	13	186-1680	8	Bolt
2	186-2049	1	Housing, Center	14	186-2051	1	Bearing, Thrust
3	186-2050	1	Bearing, Journal	15	186-1712	1	Pin, Dowel
4	186-2065	1	Rotor, Turbine	16	186-2062	1	Plate, Diffuser
5	186-2052	1	Collar, Thrust	17	186-1728	1	Seal, O-Ring
6	186-2053	1	Flinger	18	186-2055	1	Seal, O-Ring
7	186-2063	1	Impeller, Blower	19	720-1035	4	Bolt
8	186-2056	1	Nut, Lock	20	186-2060	2	Washer, Lock
9	186-2054	2	Seal, O-Ring	21	186-2064	1	Housing, Blower
10	186-2061	1	Shield, Heat	22	186-2057	1	Band, V
11	186-2058	4	Plate	23	186-0753	2	Screw
12	186-2059	4	Washer, Lock				

Turbocharger Oil Piping



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-1985	1	Tube, Supply	8	186-1179	2	Bolt
2	186-1747	1	Elbow	9	186-1379	1	Hose
3	186-1986	1	Connector	10	186-0168	2	Clamp
4	186-1987	1	Hose	11	186-1384	1	Elbow
5	186-1746	1	Nipple	12	186-1755	1	Clip
6	186-1984	1	Tube, Drain	13	186-1265	1	Bolt
7	186-1383	1	Gasket	14	186-0103	1	Washer

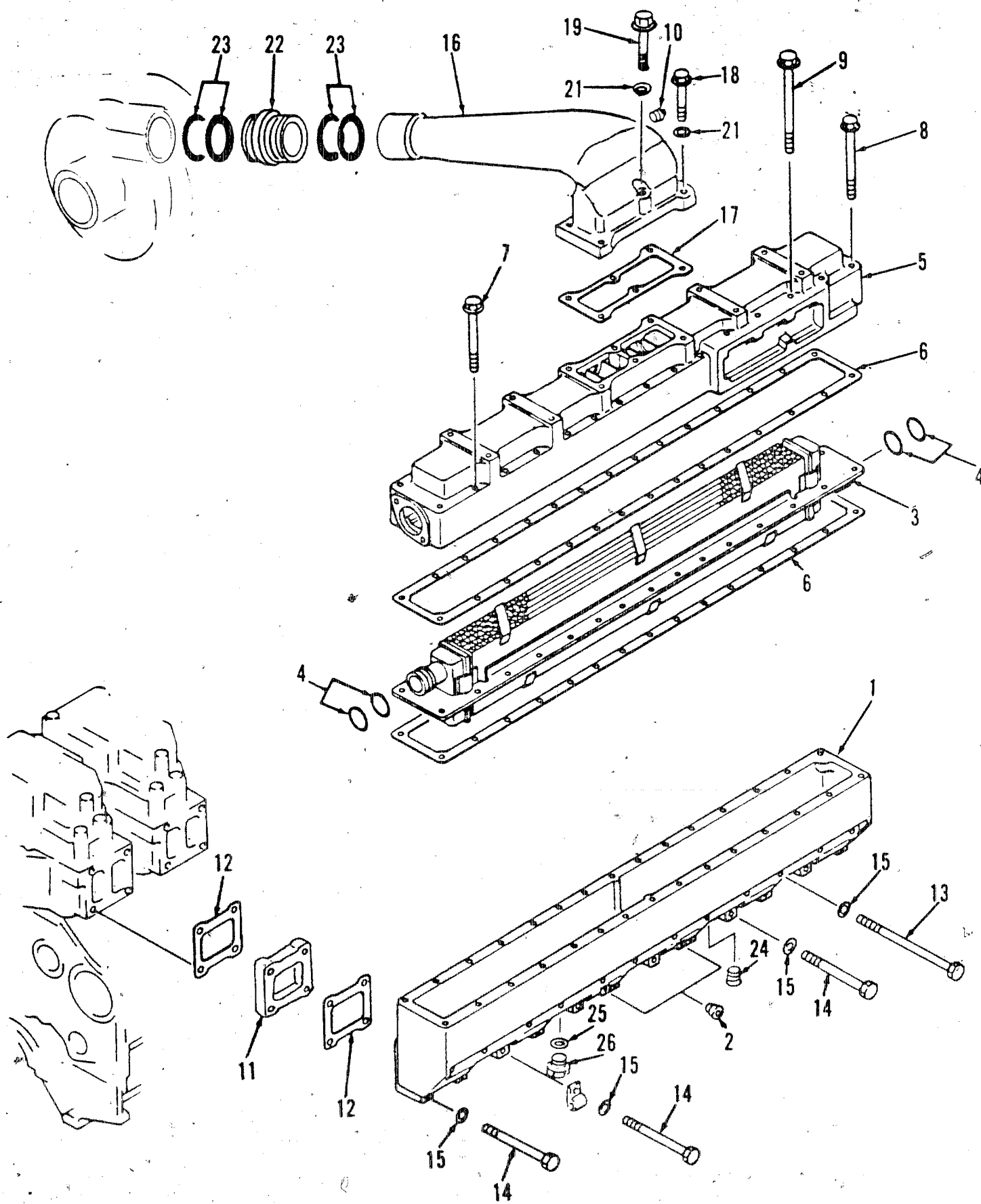
Exhaust System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-2154	1	Silencer
2	155-2160	2	Bracket, Mounting - Silencer
3	155-2157	1	Adapter, Exhaust
4	155-2062-05	1	Cap, Rain
5	155-2158	1	Gasket, Exhaust
6	155-2159	1	Clamp, Muffler
7	800-0135	4	Screw, Cap. - Hex Head (5/8 - 11 x 2-1/4")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	850-0070	4	Washer, Lock (5/8)
9	862-0019	4	Nut, Hex (5/8 - 11)
10	821-0029	4	Screw, Lock (3/8 - 16 x 3/4")
11	870-0281	4	Nut, Lock (3/8 - 16)
12	870-0257	4	Nut, Lock (5/16 - 18)
13	155-2161	1	Adapter, Exhaust (Used on Gen Sets Without A Silencer)

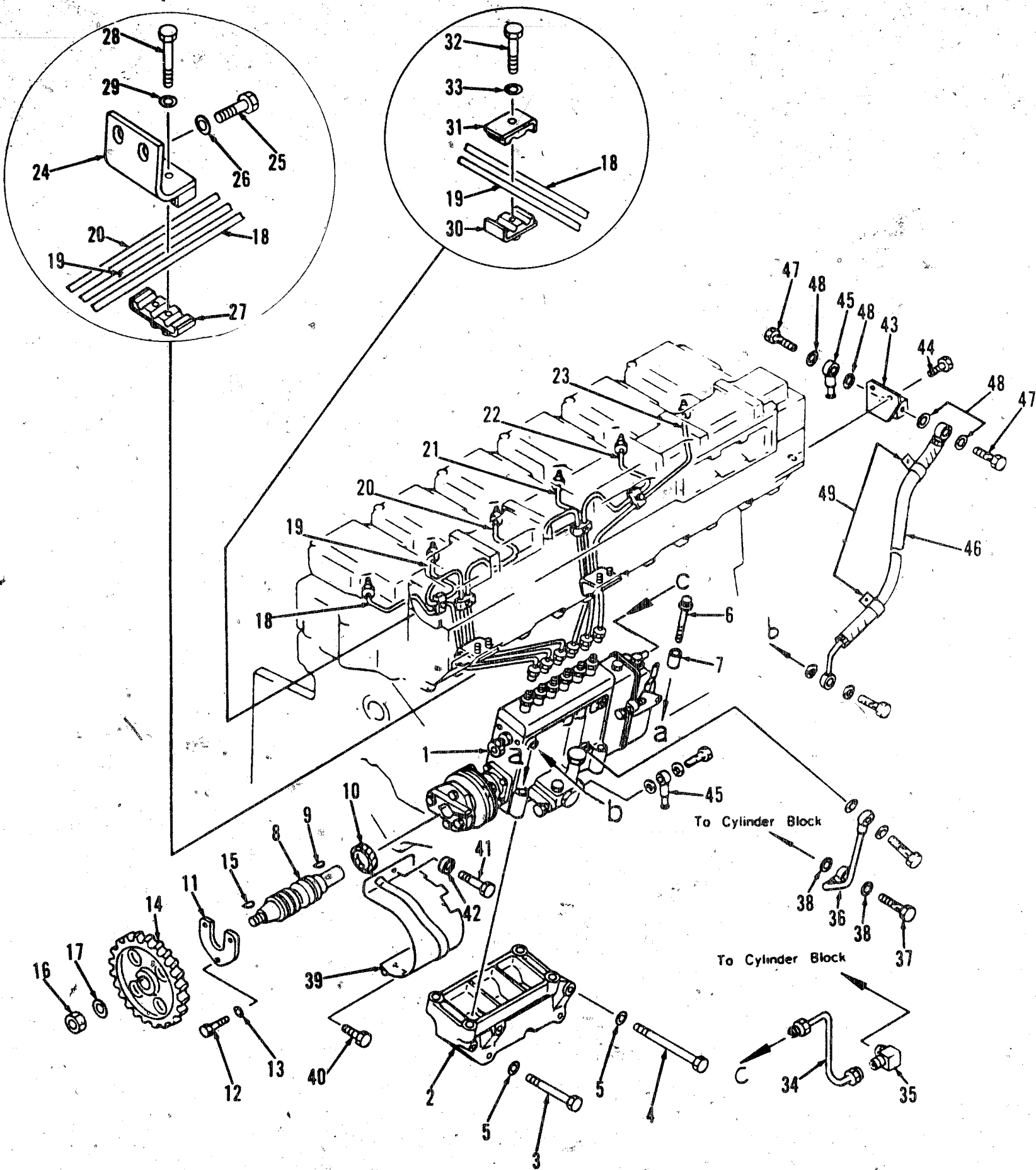
Air Intake Manifold, And After Cooler



Air Intake Manifold, And After Cooler

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-2022	1	Manifold, Intake	14	186-1685	12	Bolt
2	186-0156	2	Plug	15	186-0103	24	Washer
3	186-2031	1	Core	16	186-2024	1	Connector
4	186-2033	4	Seal, O-Ring	17	186-2026	1	Gasket
5	186-2023	1	Cover	18	186-1285	5	Bolt
6	186-2025	2	Gasket	19	186-1159	1	Bolt
7	186-1693	22	Bolt	21	186-0103	6	Washer
8	186-1696	4	Bolt	22	186-1949	1	Connector
9	186-1693	4	Bolt	23	186-1711	4	Seal, O-Ring
10	186-0151	1	Plug	24	186-0154	1	Plug
11	186-2027	6	Spacer	25	186-1216	1	Plug
12	186-1783	12	Gasket	26	186-1735	1	Gasket
13	186-1180	12	Bolt				

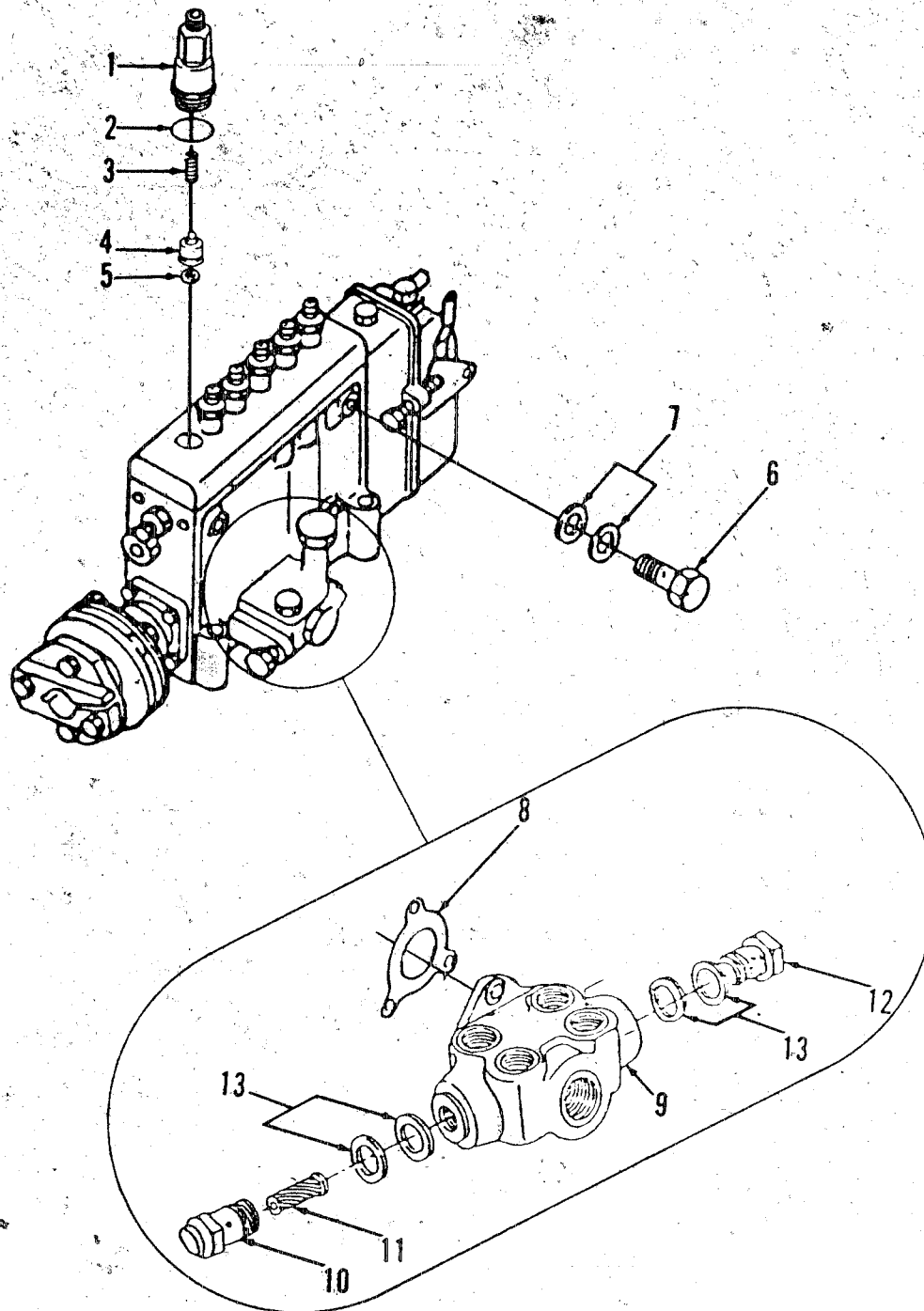
Fuel Injection Pump, And Piping



Fuel Injection Pump, And Piping

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-2039	1	Pump, Injection - Fuel (See Separate Page For Components)	25	186-1671	4	Bolt
2	186-1966	1	Bracket	26	186-0102	4	Washer
3	186-1675	2	Bolt	27	186-1932	2	Clamp
4	186-1677	2	Bolt	28	186-1670	4	Bolt
5	186-0104	4	Washer	29	186-1703	4	Washer
6	186-1413	4	Bolt	30	186-1775	4	Clamp
7	186-1231	2	Ring, Dowel	31	186-1776	4	Clamp
8	186-2041	1	Shaft	32	186-1669	4	Bolt
9	186-1414	1	Key	33	186-1703	4	Washer
10	186-1927	1	Seal, Oil	34	186-2043	1	Tube, Supply
11	186-1925	1	Plate, Thrust	35	186-1757	1	Elbow
12	720-1035	3	Bolt	36	186-2016	1	Tube, Drain
13	186-0101	3	Washer	37	186-0161	1	Bolt, Joint
14	186-2073	1	Gear	38	186-0147	2	Gasket
15	186-1414	1	Key	39	186-1928	1	Cover
16	186-1701	1	Nut	40	186-1255	2	Bolt
17	186-1411	1	Washer	41	186-1265	1	Bolt
18	186-2009	1	Line, Injection - Fuel (No 1)	42	186-1774	1	Washer
19	186-2010	1	Line, Injection - Fuel (No 2)	43	186-2045	1	Adapter
20	186-2011	1	Line, Injection - Fuel (No 3)	44	186-1265	2	Bolt
21	186-2012	1	Line, Injection - Fuel (No 4)	45	186-1436	2	Joint
22	186-2013	1	Line, Injection - Fuel (No 5)	46	186-2042	1	Hose
23	186-2014	1	Line, Injection - Fuel (No 6)	47	186-0161	2	Bolt, Joint
24	186-1931	2	Clamp	48	186-0147	4	Gasket
				49	186-1766	2	Clamp

Fuel Injection Pump Components

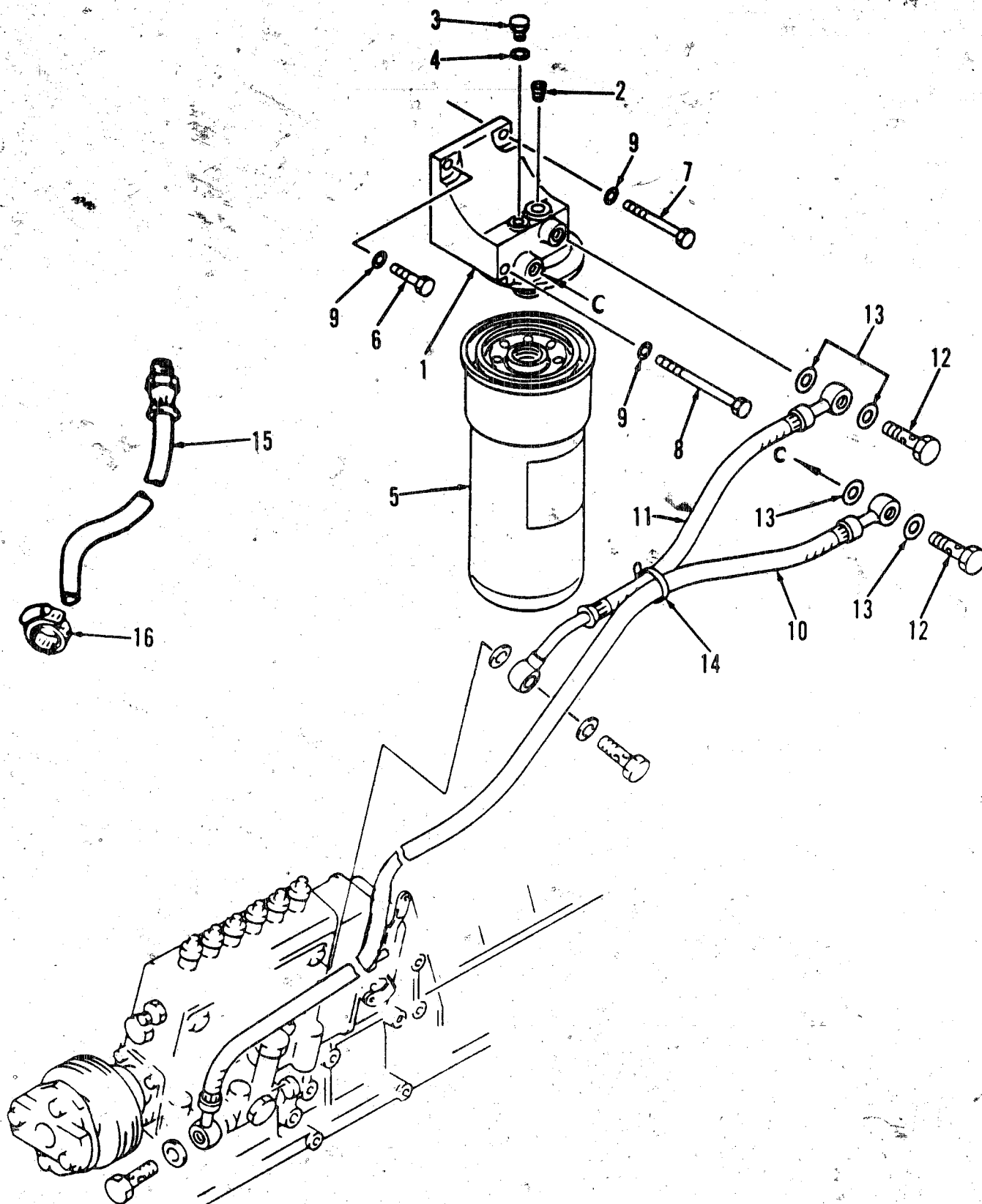


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-2078	6	Holder, Delivery
2	186-2079	6	Seal, O-Ring - Holder
3	186-2080	6	Spring, Delivery
4	186-2081	6	Valve, Delivery
5	186-2082	6	Washer, Copper Plated
6	186-2083	2	Screw
7	186-2084	6	Washer

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	186-2089	1	Gasket, Pump - Feed
9	186-2085	1	Pump Assembly, Feed (Includes Parts Marked *)
10	186-2086	1	*Screw
11	186-2087	1	*Filter, Fuel
12	186-2083	1	*Screw
13	186-2088	4	*Washer, Seal

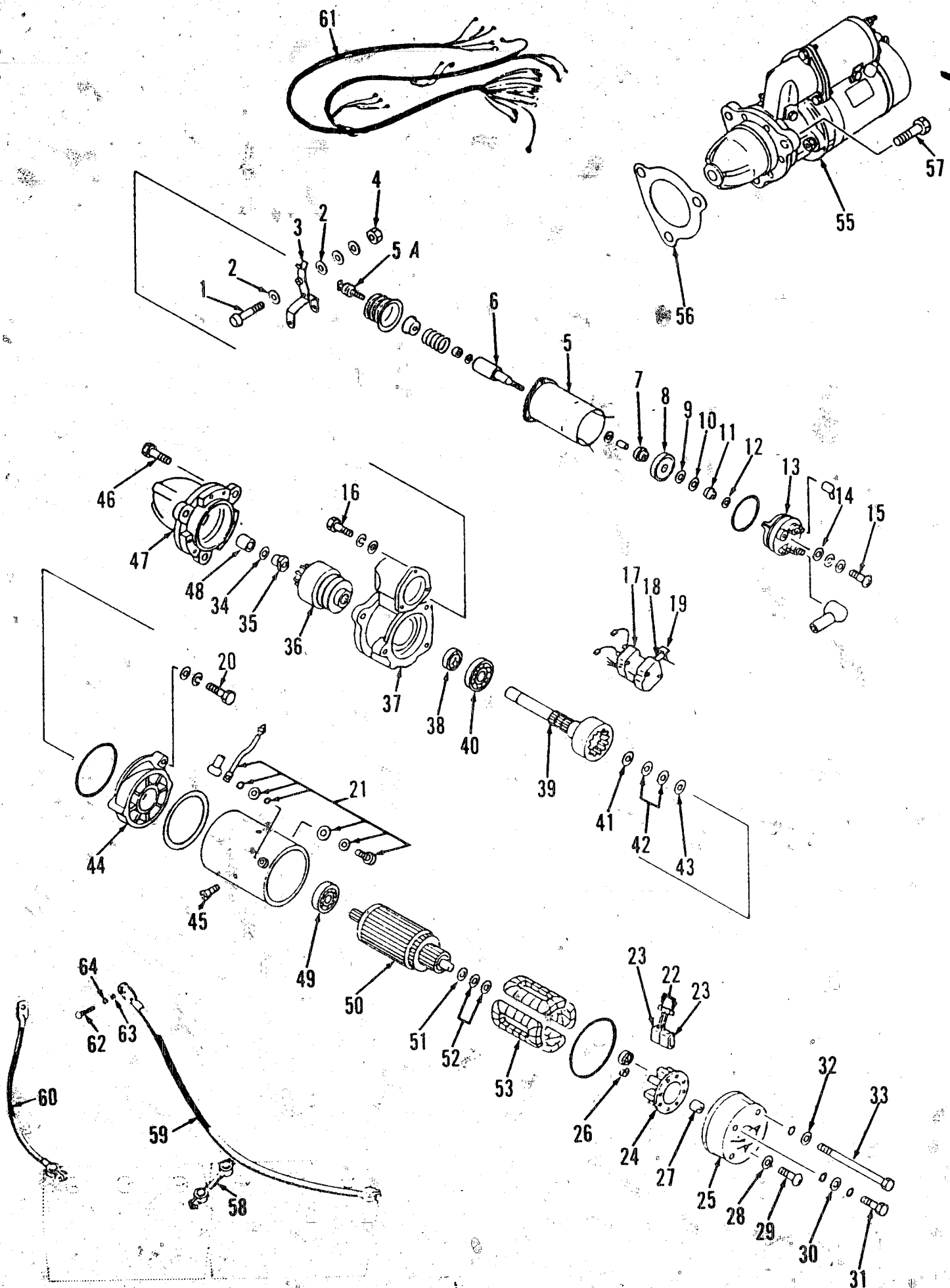
* Parts included in 186-2085 Feed Pump Assembly.

Fuel Filter, And Mounting



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-1933	1	Head	9	186-0103	4	Washer
2	186-0154	1	Plug	10	186-1748	1	Hose, Inlet
3	186-0522	1	Plug	11	186-1929	1	Hose, Outlet
4	186-0144	1	Gasket	12	186-0161	2	Bolt, Joint
5	186-1759	1	Filter, Fuel	13	186-0147	4	Gasket
6	186-1266	1	Bolt	14	186-1753	1	Band
7	186-1264	1	Bolt	15	501-0501	2	Line, Fuel - Flex
8	186-1181	2	Bolt	16	503-0170	2	Clamp, Hose

Starting Motor, And Mounting

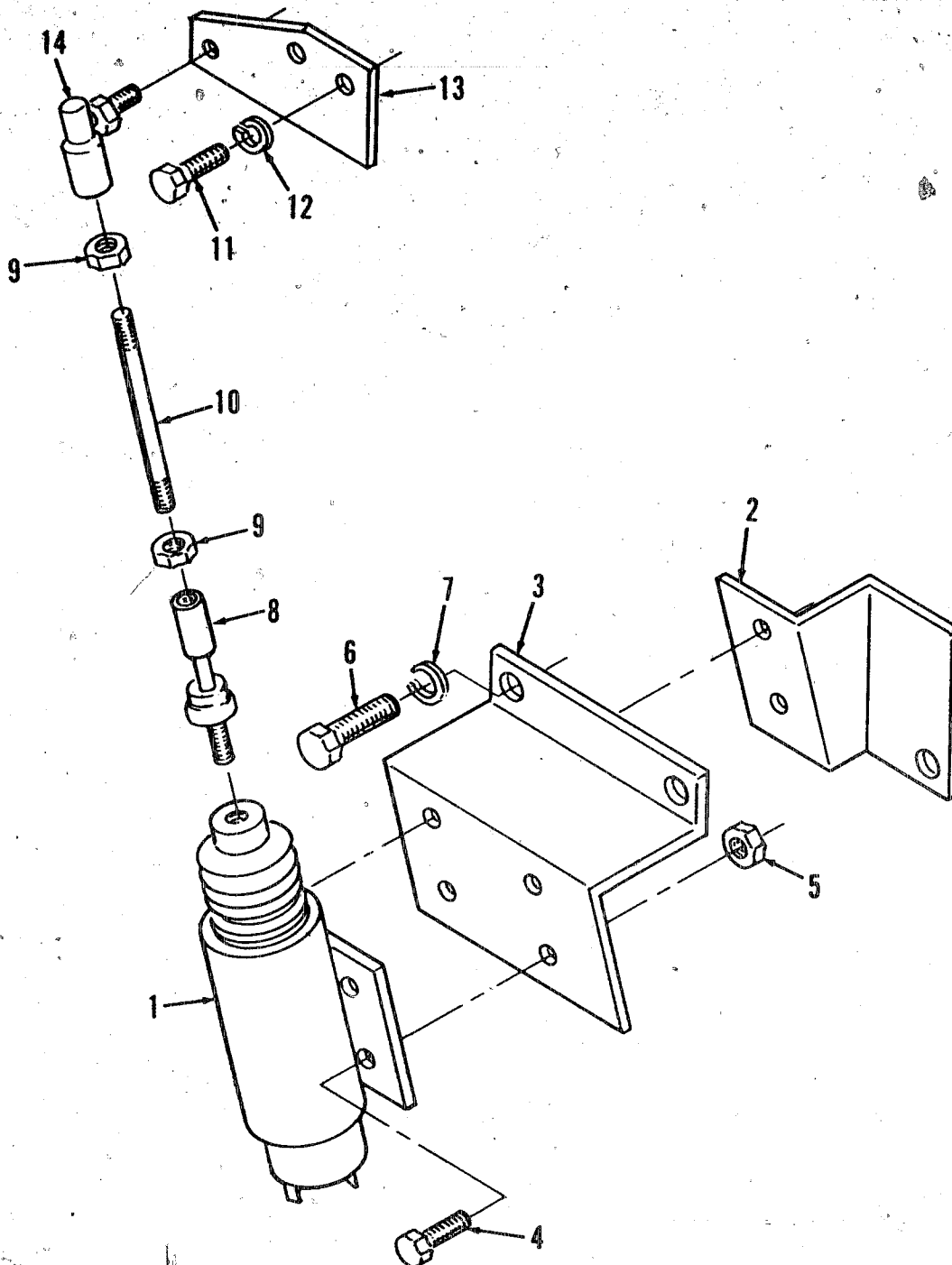


Starting Motor, And Mounting

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-1634	1	*Pin, Lever	36	186-0479	1	*Clutch Assembly, Running - Over
2	186-0030	2	*Washer, Seal	37	186-0632	1	*Bracket, Center (Includes Oil Seal)
3	186-1649	1	*Lever, Shift	38	186-0633	1	*Seal, Oil
4	186-0599	1	*Nut	39	186-0634	1	*Shaft Assembly (Includes Ball Bearing)
5	186-0476	1	*Switch Assembly, Magnetic (Includes Parts Marked +)	40	186-0477	1	*Bearing, Ball
6	186-0601	1	**Plunger	41	186-0054	1	*Washer
7	186-0602	1	**Bushing, Insulate	42	186-0055	2	*Washer
8	186-0603	1	**Contactor, Moving	43	186-0637	1	*Washer, Insulate
9	186-0604	1	**Washer, Insulate	44	186-0639	1	*Bracket, Center
10	186-0605	2	**Washer	45	186-0641	4	*Screw, Dish
11	186-0606	1	**Holder	46	186-0029	6	*Bolt
12	186-0607	2	**Ring, Clip	47	186-0643	1	*Bracket, Front (Includes Bearing)
13	186-0609	1	**Terminal Assembly	48	186-0483	1	*Bearing
14	186-1632	2	**Washer, Seal	49	186-0478	1	*Bearing, Ball
15	186-1510	2	**Screw	50	186-0644	1	*Armature
16	186-0613	3	*Bolt	51	186-0645	1	*Washer
17	186-1635	1	*Switch, Relay - Safety (Includes Bolt, and Holder)	52	186-0646	2	*Washer
18	186-1629	1	*Bolt	53	186-0647	1	*Coil, Field
19	186-0614	1	*Holder	54	186-0481	1	*Seal Assembly (Not Illustrated)
20	186-0615	3	*Bolt	55	186-1764	1	Motor Assembly, Starting (Includes Parts Marked *)
21	186-1663	1	*Terminal Assembly	56	186-1503	1	Gasket
22	186-0618	4	*Plate	57	186-1501	3	Bolt
23	186-0480	4	*Brush	58	416-0871	1	Cable, Battery (33")
24	186-0619	1	*Holder, Brush *	59	416-0619	1	Cable, Battery (18")
25	186-0620	1	*Bracket	60	416-0672	1	Cable, Battery (29")
26	186-0621	4	*Spring, Brush	61	338-1951	1	Harness, Wiring - Engine
27	186-0482	1	*Bearing	62	718-1053	1	Screw, Cap - Hex Head (M10 x 1.5 x 20mm)
28	186-0610	1	*Washer, Seal	63	850-2010	1	Washer, Lock (M10)
29	186-1633	1	*Screw	64	856-0010	1	Washer, Lock - EIT (M10)
30	186-0625	2	*Washer	65	186-0600	1	**Screw
31	186-0626	2	*Bolt				
32	186-0628	2	*Washer				
33	186-1509	2	*Bolt				
34	186-0630	1	*Ring, Clip				
35	186-0631	1	*Stopper, Pinion				

* Parts included in 186-1764 Starting Motor Assembly.
+ Parts included in 186-0476 Magnetic Switch Assembly.

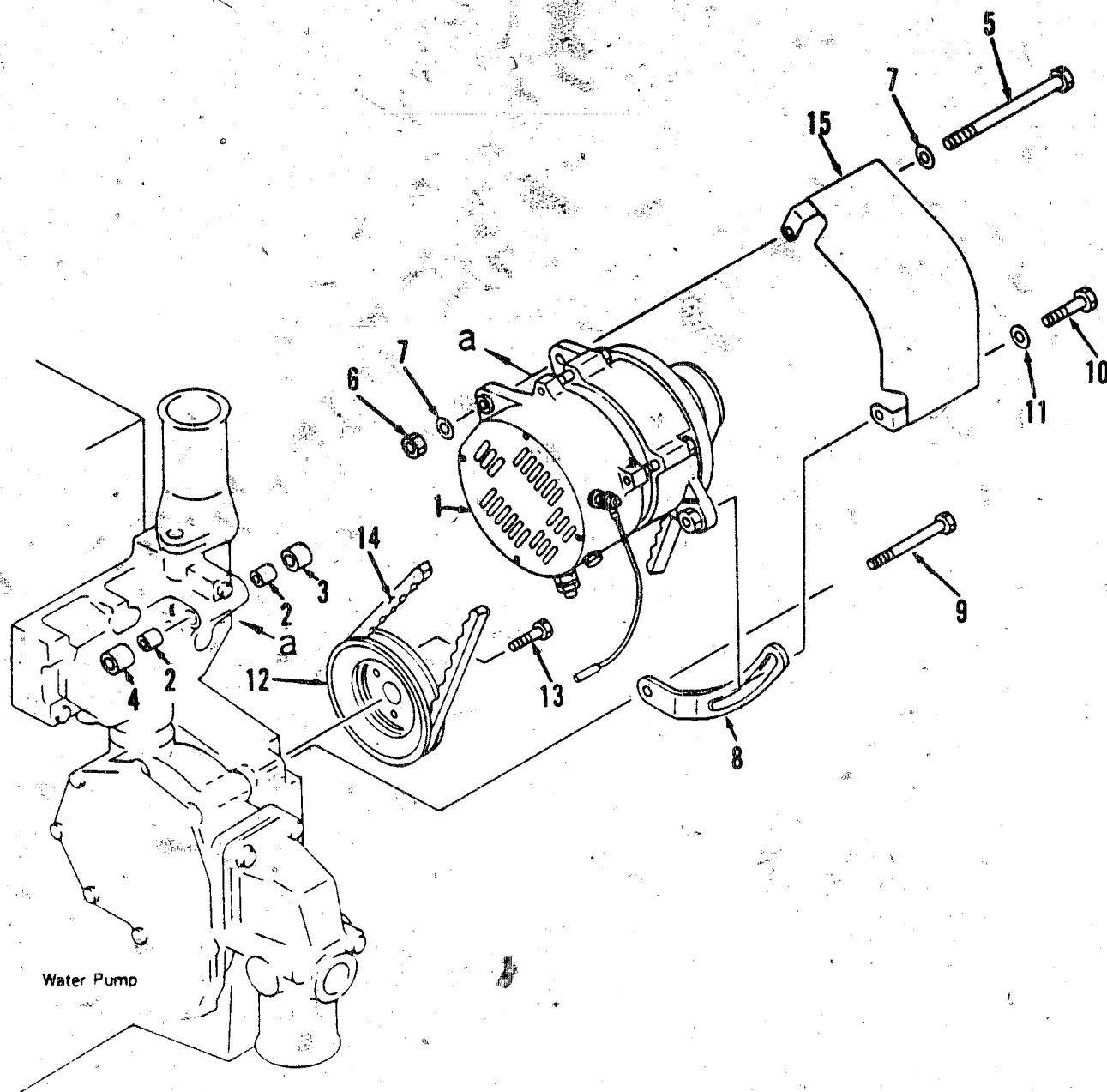
Solenoid, And Mounting



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-2554	1	Solenoid, Start/Stop
2	307-2557	1	Bracket, Mounting - Solenoid
3	307-2556	1	Bracket, Mounting - Solenoid
4	821-0018	4	Screw, Lock (1/4 - 20 x 5/8")
5	870-0212	4	Nut, Lock (1/4 - 20)
6	718-1053	3	Screw, Cap - Hex Head (M10 x 20mm)
7	850-2010	3	Washer, Lock (M10)

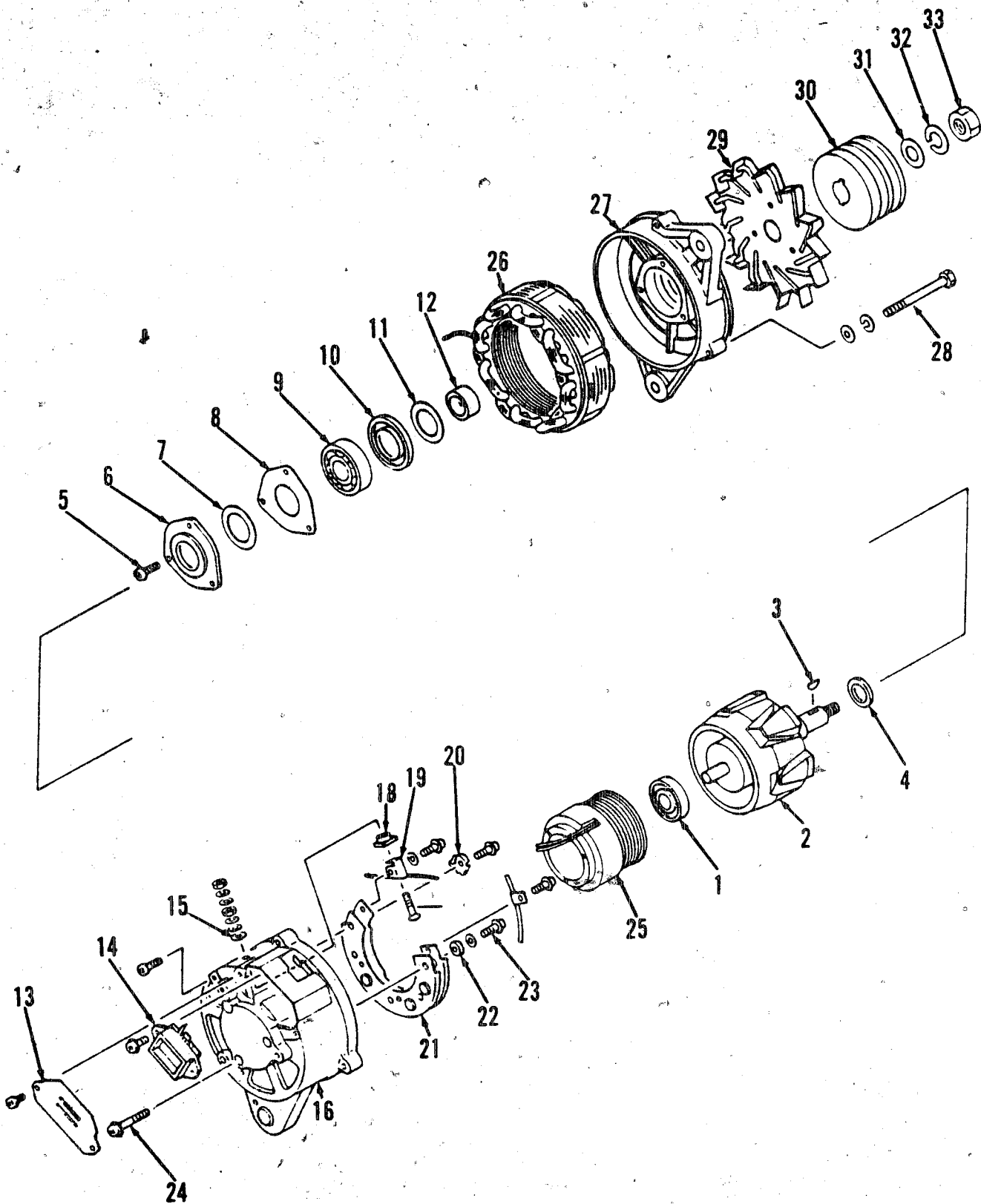
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	150-1733	1	Joint, Ball
9	115-0025	3	Nut (1/4 - 20)
10	520-0964	1	Stud
11	718-1020	2	Screw, Cap - Hex Head (M6 x 16mm)
12	850-2006	2	Washer, Lock (M6)
13	307-2555	1	Arm, Solenoid
14	150-1995	1	Joint, Ball

Alternator, And Mounting



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-2074	1	Alternator Assembly (See Separate Page For Components)	8	186-2017	1	Plate, Adjust
2	186-1920	2	Pin	9	186-1267	1	Bolt
3	186-1758	1	Spacer	10	186-0085	1	Bolt
4	186-1771	1	Spacer	11	186-0109	1	Washer
5	186-1768	1	Bolt	12	186-1935	1	Pulley
6	186-1708	1	Nut	13	186-1671	3	Bolt
7	186-1706	2	Washer	14	186-1763	1	Belt, V
				15	186-2018	1	Cover

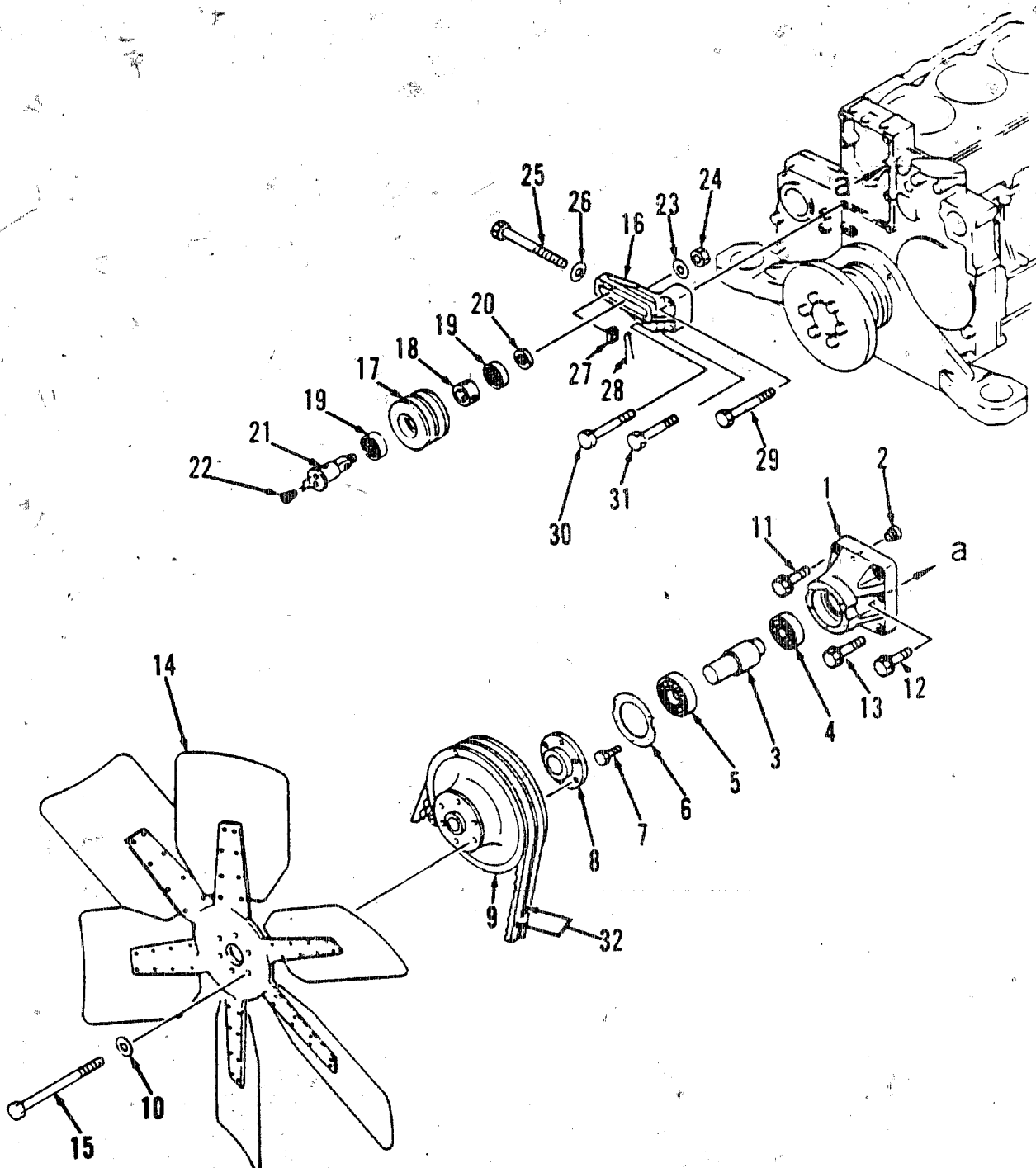
Alternator Components



Alternator Components

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-1647	1	Bearing, Ball	18	186-0935	1	Bushing, Insulate
2	186-1656	1	Rotor Assembly	19	186-1661	1	Bar, Connect
3	186-1645	1	Key, Woodruff	20	186-1660	1	Terminal
4	186-1651	1	Collar	21	186-1641	1	Rectifier
5	186-1642	3	Screw	22	186-0929	2	Plate, Insulate
6	186-1650	1	Retainer	23	186-1627	3	Screw
7	186-1655	1	Packing	24	186-1628	3	Screw
8	186-1653	1	Retainer	25	186-1637	1	Coil, Field
9	186-1646	1	Bearing, Ball	26	186-1638	1	Stator
10	186-1654	1	Retainer	27	186-1639	1	Bracket, Front
11	186-1648	1	Packing	28	186-1630	3	Bolt
12	186-1652	1	Collar	29	186-1658	1	Fan
13	186-1659	1	Cover	30	186-1657	1	Pulley
14	186-1664	1	Regulator Assembly	31	186-1643	1	Washer
15	186-1662	1	Washer, Insulate	32	186-1644	1	Washer, Spring
16	186-1640	1	Bracket, Rear	33	186-1631	1	Nut
17	186-1636	1	Bolt (Battery Terminal)				

Cooling Fan, And Mounting

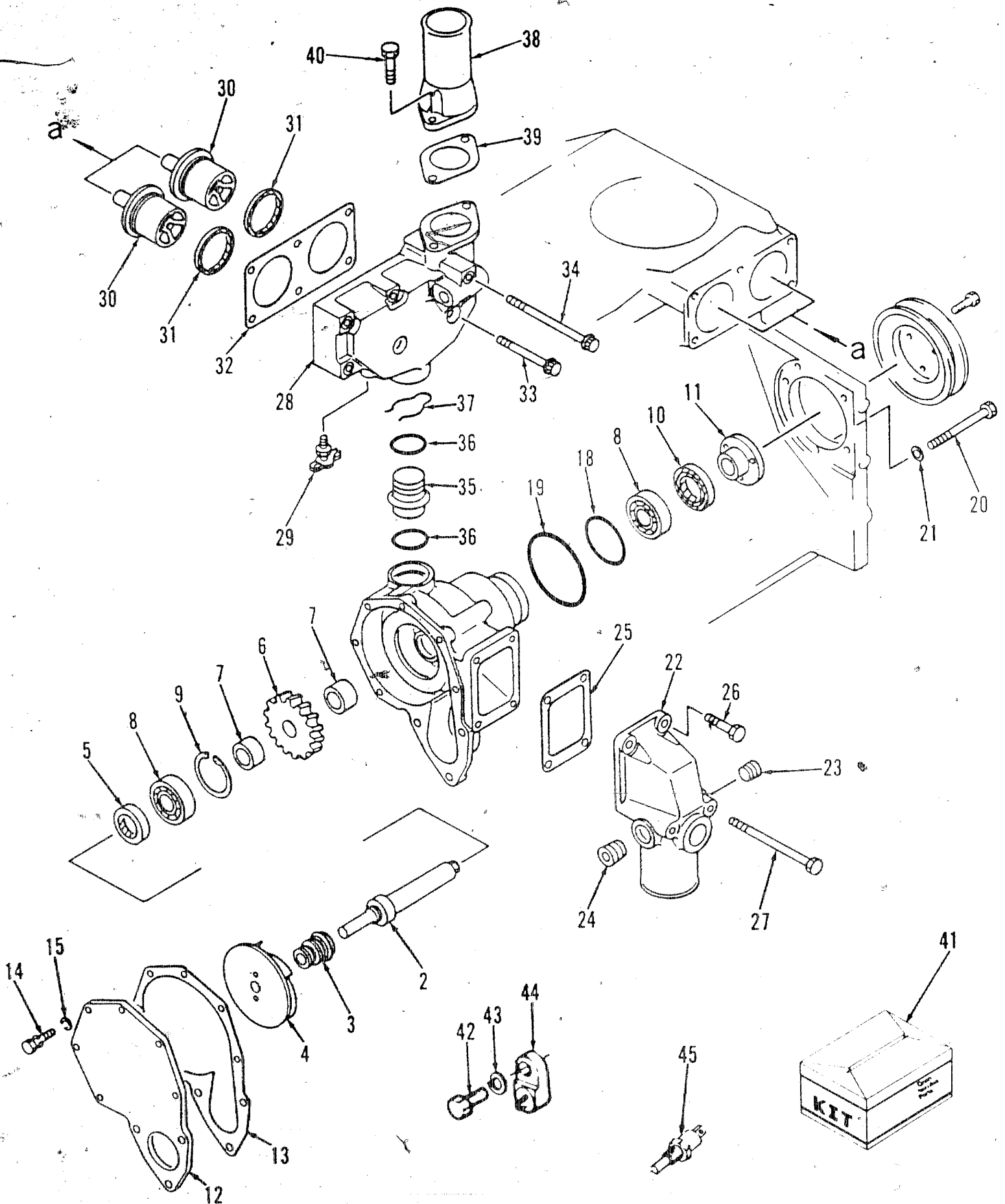


Cooling Fan, And Mounting

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	186-1997	1	Pulley Assembly, Fan (Includes Parts Marked *)	16	186-2001	1	Bracket
1	186-1995	1	*Bracket	17	186-2000	1	Pulley, Tension
2	186-0156	2	*Plug	18	186-2006	1	Spacer
3	186-1996	1	*Shaft	19	186-1723	2	Bearing, Ball
4	186-1720	1	*Bearing, Ball	20	186-2008	1	Spacer
5	186-1721	1	*Bearing, Ball	21	186-2002	1	Shaft
6	186-1994	1	*Plate	22	186-1740	2	Plug
7	720-1035	6	*Bolt	23	186-2007	1	Plate
8	186-1999	1	*Adapter	24	186-1699	1	Nut
9	186-1998	1	Pulley, Fan	25	186-2003	1	Bolt, Adjusting
10	186-1707	6	Washer	26	186-2004	1	Washer
11	186-1695	2	Bolt	27	186-2005	1	Nut
12	186-1697	3	Bolt	28	186-0128	1	Pin, Cotter
13	186-1694	1	Bolt	29	186-1688	1	Bolt
14	186-1762	1	Fan, Cooling	30	186-1686	1	Bolt
15	720-1075	6	Bolt	31	186-1676	1	Bolt
				32	186-1716	1	Belt Set, V

* Parts included in 186-1997 Fan Pulley Assembly.

Water Pump

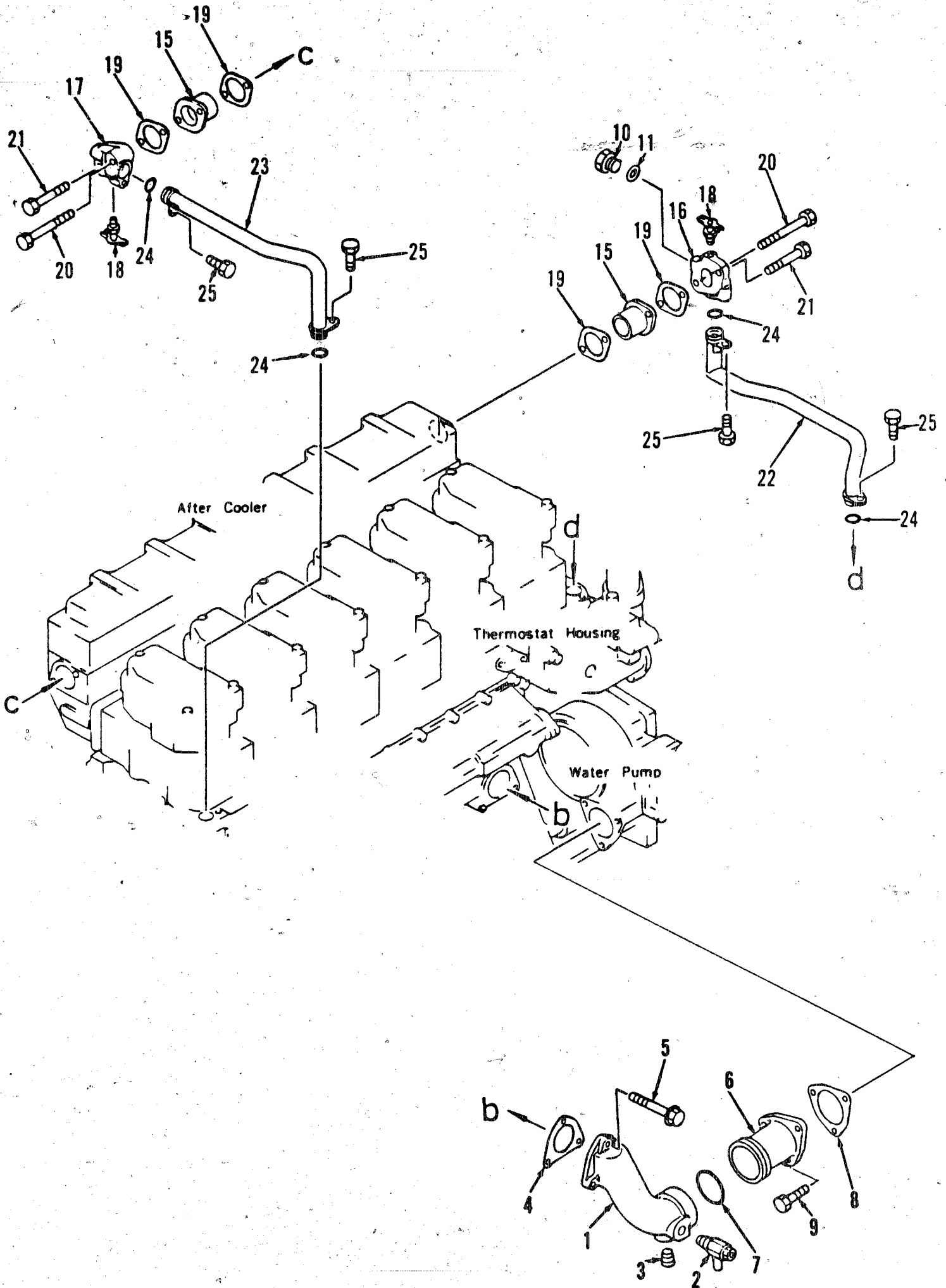


Water Pump

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	186-1988	1	Pump Assembly, Water (Includes Parts Marked *)	26	186-0501	2	Bolt
2	186-1992	1	*Shaft	27	186-1683	2	Bolt
3	186-0404	1	*Seal, Water	28	186-1915	1	Housing, Thermostat
4	186-1991	1	*Impeller	29	186-0517	1	Cock
5	186-1900	1	*Seal, Oil	30	186-1760	2	Thermostat
6	186-1899	1	*Gear	31	186-2070	2	Seal
7	186-1898	2	*Spacer	32	186-1916	1	Gasket
8	186-1722	2	*Bearing, Ball	33	186-1200	5	Bolt
9	186-1715	1	*Ring, Snap	34	186-1937	1	Bolt
10	186-1901	1	*Seal, Oil	35	186-1918	1	Tube
11	186-1897	1	*Sleeve	36	186-1710	2	Seal, O-Ring
12	186-1989	1	*Cover	37	186-1919	1	Spring
13	186-1990	1	*Gasket	38	186-1910	1	Connector
14	186-0329	6	*Bolt	39	186-1917	1	Gasket
15	186-0095	6	*Washer, Spring	40	186-1268	2	Bolt
18	186-0136	1	Seal, O-Ring	41	186-2077	1	Gasket Kit, Pump - Water
19	186-1460	1	Seal, O-Ring	42	718-1039	1	Screw, Cap - Hex Head (M8 x 1.25 x 35mm)
20	186-1447	3	Bolt	43	850-2008	1	Washer, Lock (M8)
21	186-0103	3	Washer	44	309-0269	1	Sender, Temperature - Lo Engine
22	186-1908	1	Connector	45	309-0521	1	Thermostat, Temperature - Pre Water
23	186-1709	2	Plug				
24	186-1709	1	Plug				
25	186-1909	1	Gasket				

* Parts included in 186-1988 Water Pump Assembly.

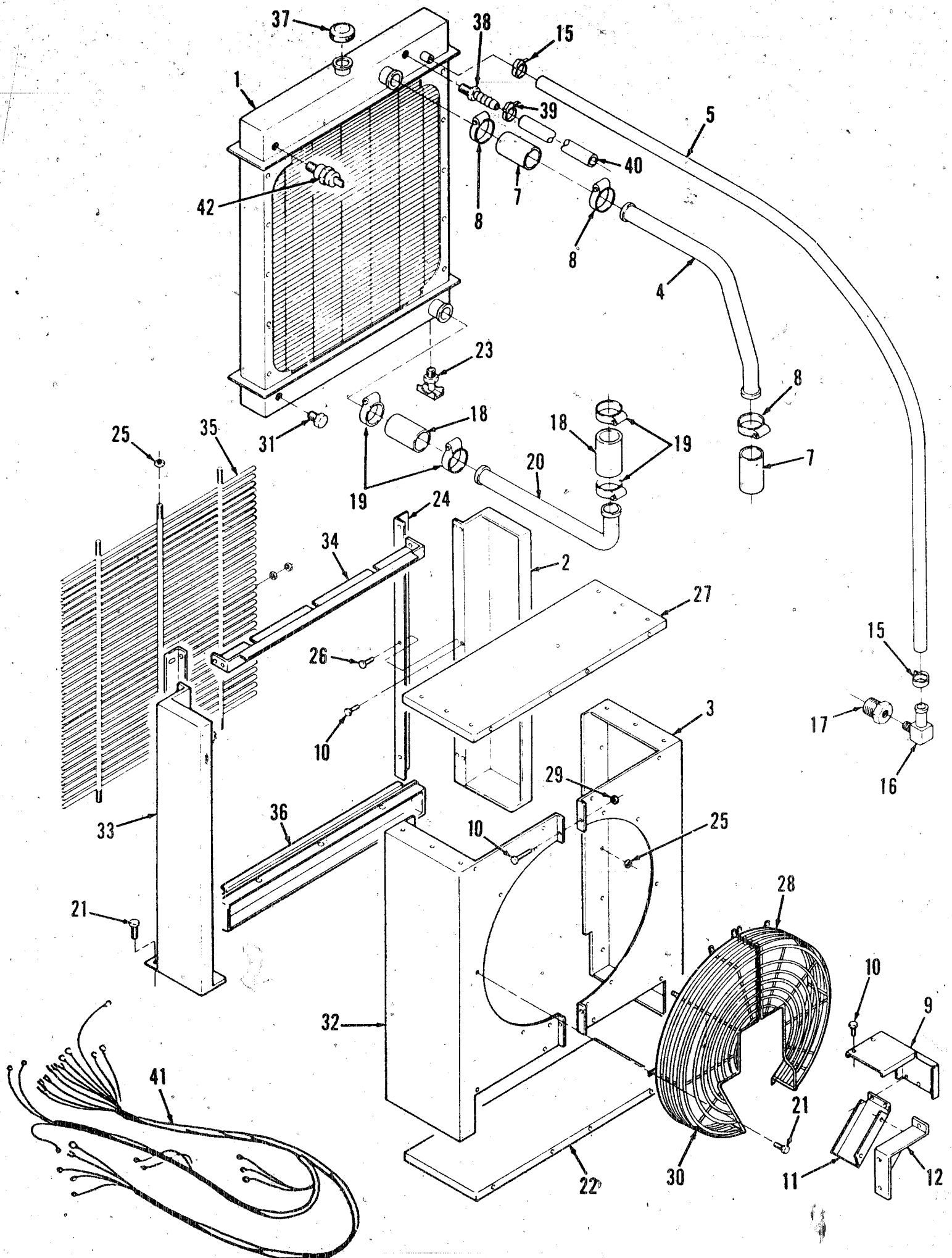
Water Piping



Water Piping

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-1912	1	Elbow	15	186-2037	2	Connector
2	186-1752	1	Valve	16	186-2035	1	Connector
3	186-0155	1	Plug	17	186-2036	1	Connector
4	186-1914	1	Gasket	18	186-0517	2	Cock
5	186-1936	3	Bolt	19	186-2038	4	Gasket
6	186-1911	1	Tube	20	186-1388	2	Bolt
7	186-1726	1	Seal, O-Ring	21	186-1474	2	Bolt
8	186-1913	1	Gasket	22	186-2034	1	Tube
9	186-1266	3	Bolt	23	186-2032	1	Tube
10	186-1738	1	Plug	24	186-1725	4	Seal, O-Ring
11	186-0147	1	Gasket	25	186-1255	4	Bolt

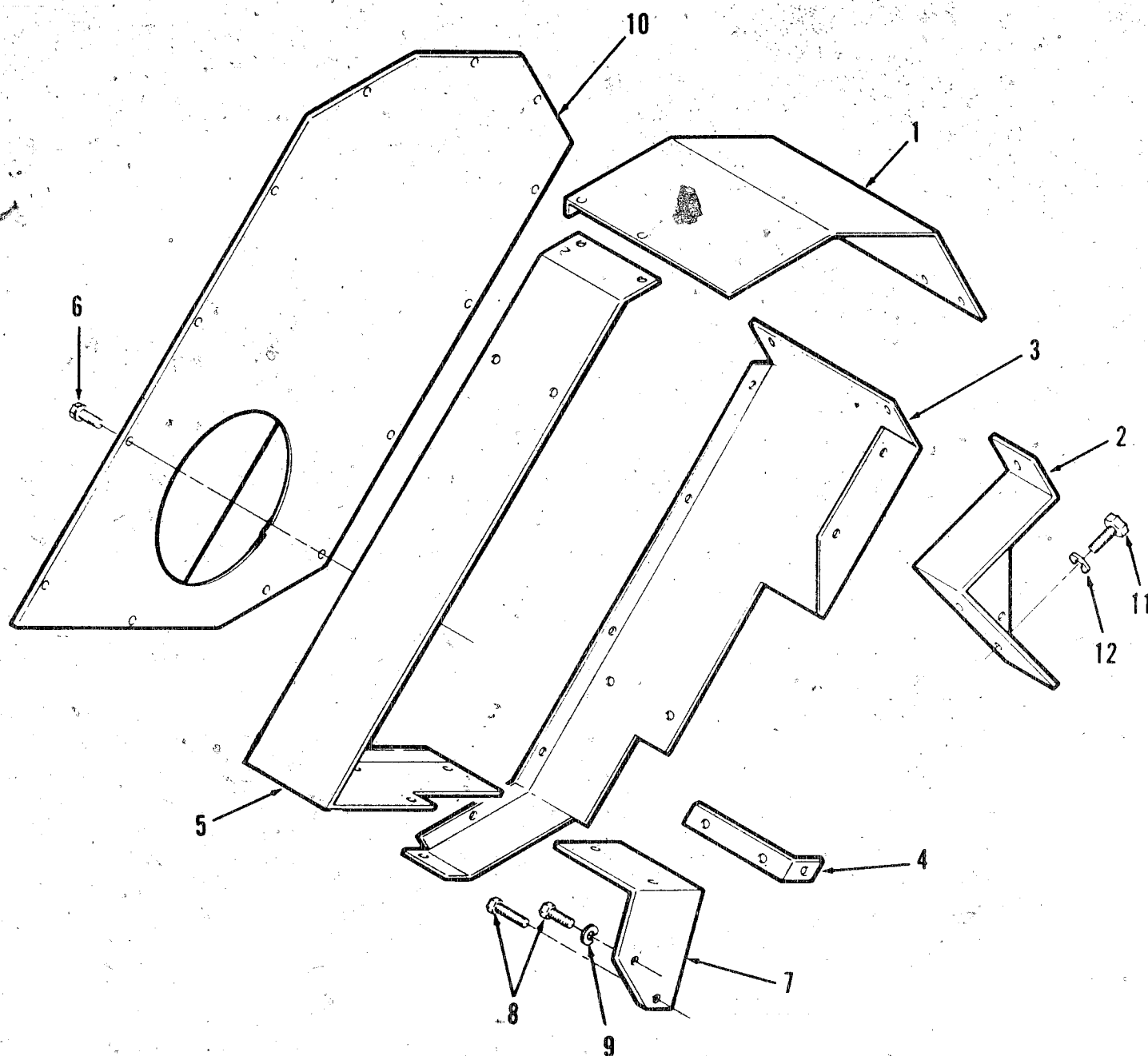
Cooling System



Cooling System

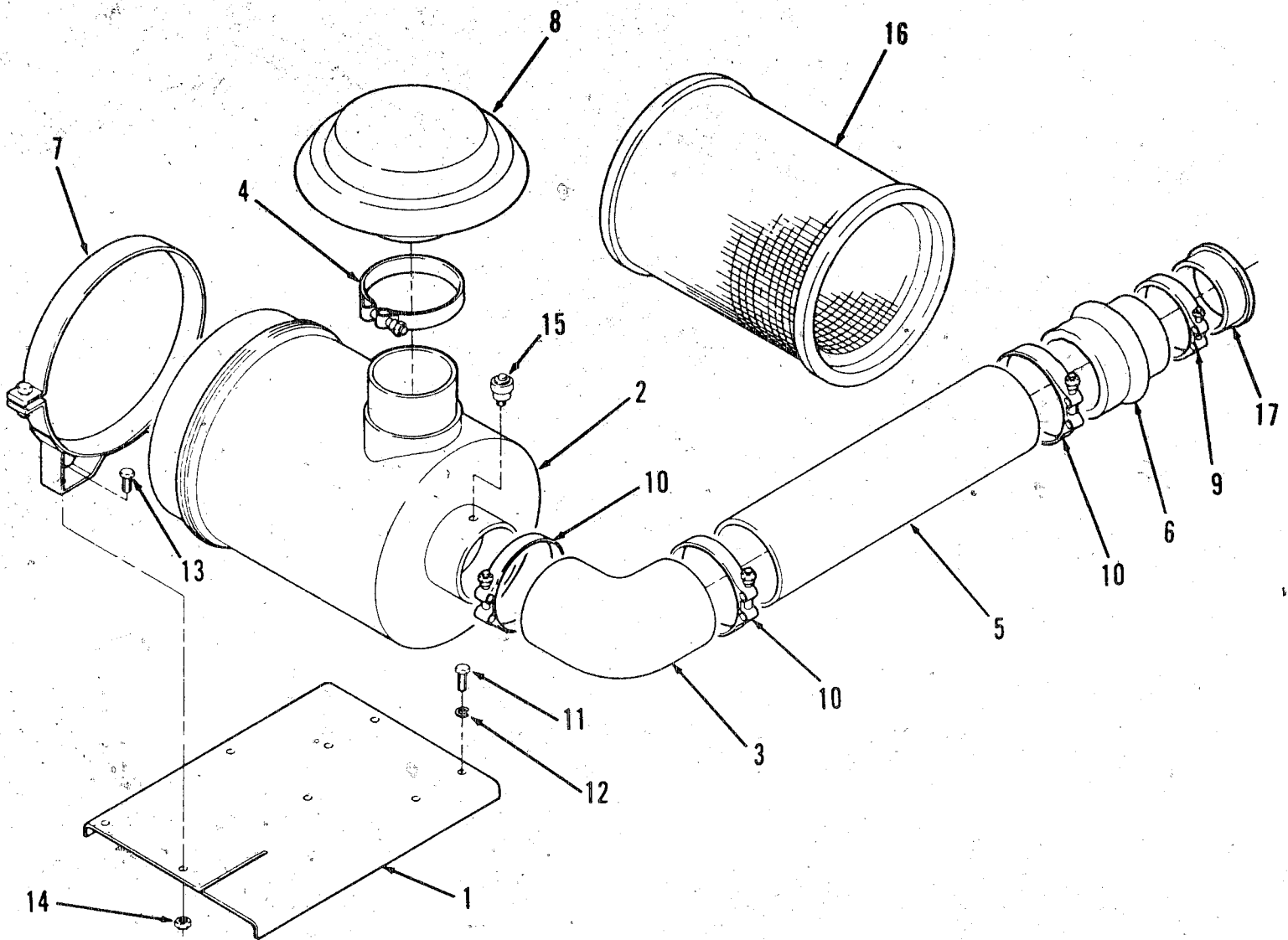
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-2892	1	Radiator	22	130-2896	1	Shroud, Fan - Bottom
2	130-2904-01	1	Guard, Radiator (Left Hand)	23	504-0003	1	Cock, Drain
3	130-2905-01	1	Wrapper, Shroud - Fan (Left Hand)	24	130-2898	2	Bracket
4	130-2893	1	Tube, Inlet - Radiator	25	870-0281	19	Nut, Lock (3/8 - 16)
5	503-1467	1	Hose	26	821-0028	26	Screw, Lock (3/8 - 16 x 1 1/2")
6	332-1389	3	Cable, Tie	27	130-2897	1	Shroud, Fan - Top
7	503-1380-01	2	Hose, Radiator	28	130-2825-01	1	Guard, Fan (Left Hand)
8	503-0998	4	Clamp, Hose	29	870-0212	8	Nut, Lock - Flange (1/4 - 20)
9	191-1755	1	Wrapper, Guard - Alternator	30	130-2825-02	1	Guard, Fan (Right Hand)
10	821-0018	19	Screw, Lock - Flange (1/4 - 20 x 5/8")	31	502-0153	3	Plug, Pipe - Hex
11	191-1757	1	Guard, Belt - Alternator	32	130-2905-02	1	Wrapper, Shroud - Fan (Right Hand)
12	191-1756	1	Support, Guard - Alternator	33	130-2904-02	1	Guard, Radiator (Right Hand)
13	718-1052	2	Screw, Cap - Hex Head (M10 x 1.5 x 16mm)	34	130-2902	1	Bracket, Mounting - Grille
14	850-2010	2	Washer, Lock (M10)	35	130-2903	1	Grille
15	503-0189	2	Clamp, Hose	36	130-2901	1	Support, Grille
16	502-0999	1	Elbow, Hose - 90°	37	130-0449	1	Cap, Radiator
17	505-1365	1	Bushing, Reducer	38	502-0996	1	Connector, Hose - Barbed
18	503-1460	2	Hose, Radiator	39	503-1133	2	Clamp, Hose
19	503-0868	4	Clamp, Hose	40	503-0304	1	Hose
20	130-2894	1	Tube, Outlet - Radiator	41	338-2010	1	Harness, Wiring - Lo Coolant Level
21	821-0029	32	Screw, Lock (3/8 - 16 x 3/4")	42	193-0322	1	Sender, Level - Lo Coolant

Remote Radiator



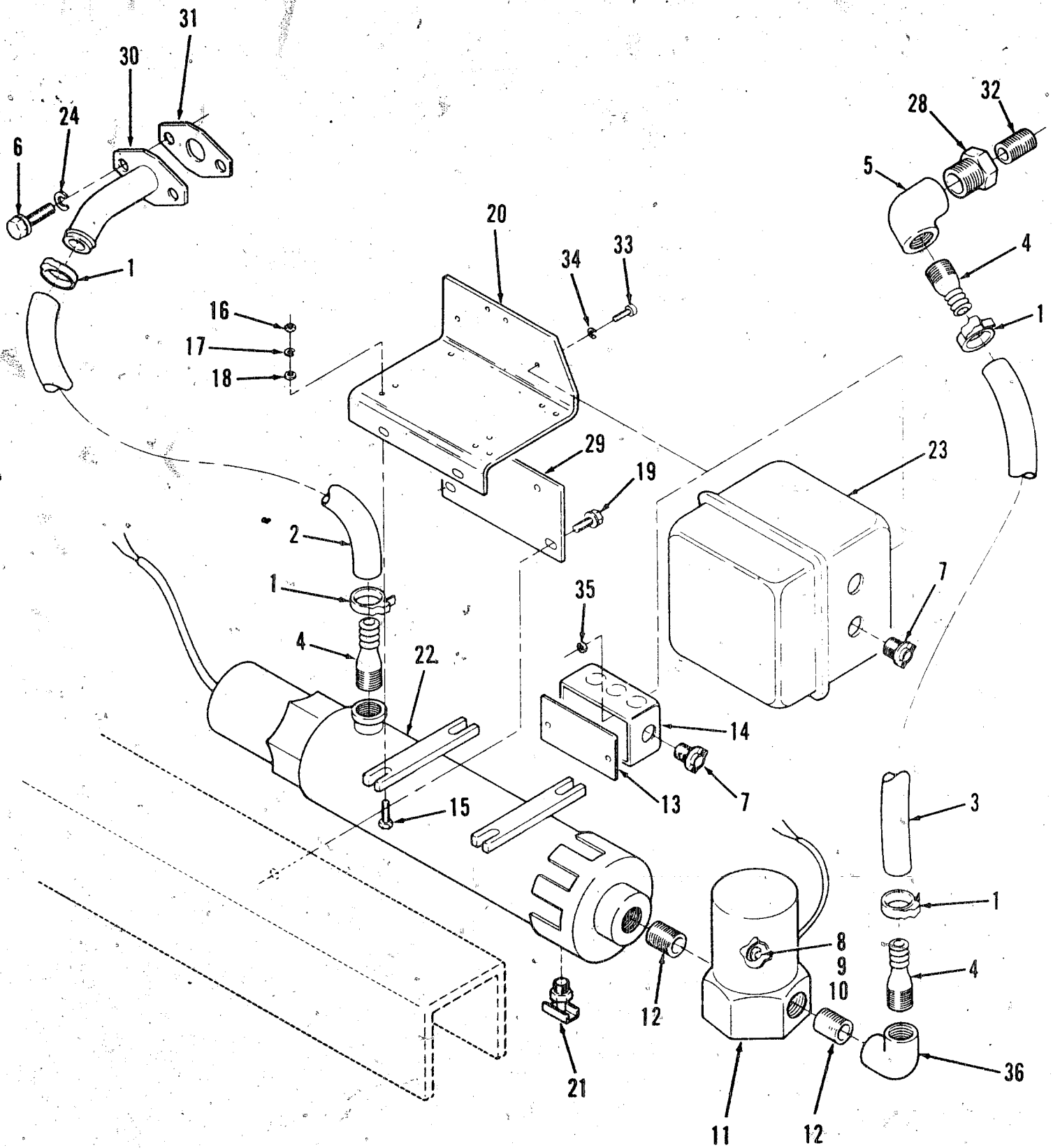
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-2944	1	Wrapper, Guard - Belt (Top)	7	130-2942	1	Wrapper, Guard - Belt (Right Hand)
2	191-1756	1	Support, Guard - Alternator	8	800-2110	2	Screw, Cap - Hex Head (M12 x 1.75 x 20mm)
3	130-2946	1	Wrapper, Guard - Belt (Left Hand)	9	850-2012	2	Washer, Lock (M12)
4	130-2941	2	Bracket, Guard - Belt	10	130-2943	1	Cover, Guard - Belt
5	130-2945	1	Wrapper, Guard - Belt (Right Hand)	11	800-2084	2	Screw, Cap - Hex Head (M10 x 1.5 x 16mm)
6	821-0010	26	Screw, Locking Head (Flange), (1/4 - 20 x 1/2")	12	850-2010	2	Washer, Lock (M10)

Air Cleaner



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2053	1	Bracket, Mounting - Air Cleaner	10	503-0864	3	Clamp, Hose
2	140-2049	1	Cleaner, Air	11	718-1072	4	Screw, Cap - Hex Head (M12 x 1.75 x 20mm)
3	503-1461	1	Hose, Elbow - 90°	12	850-2012	4	Washer, Lock (M12)
4	503-0864	1	Clamp, Hose - T-Bolt	13	821-0029	4	Screw, Lock (3/8 - 16 x 3/4")
5	140-2050	1	Tube, Inlet - Air	14	870-0281	4	Nut, Lock (3/8 - 16)
6	503-1462	1	Hose, Reducer	15	140-1548	1	Indicator, Service
7	140-2052	2	Band, Mounting	16	140-2055	1	Element
8	140-1347	1	Hood, Inlet - Air	17	503-1463	1	Insert, Reducer - Hose
9	503-0960	1	Clamp, Hose				

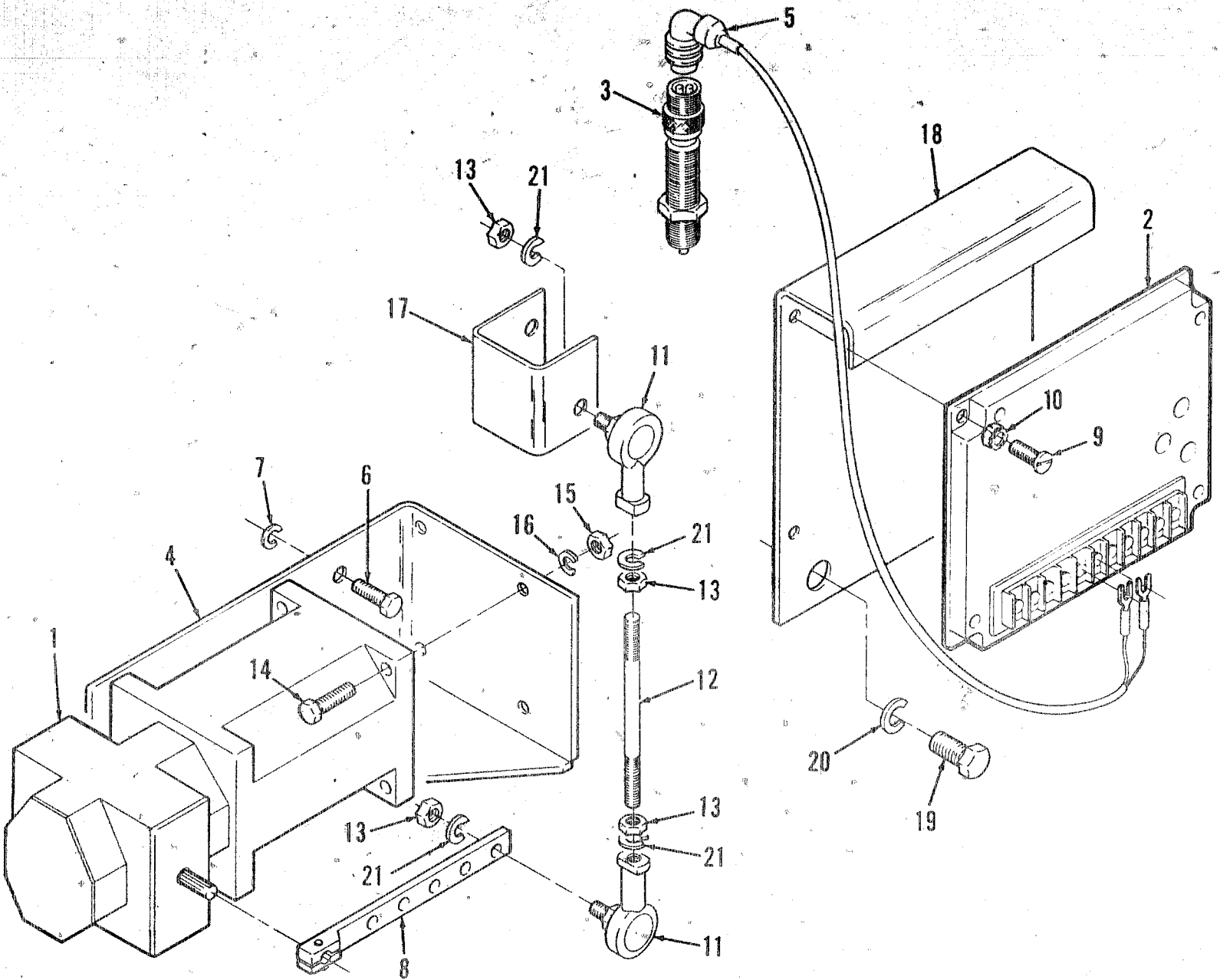
Engine Coolant Heater



Engine Coolant Heater

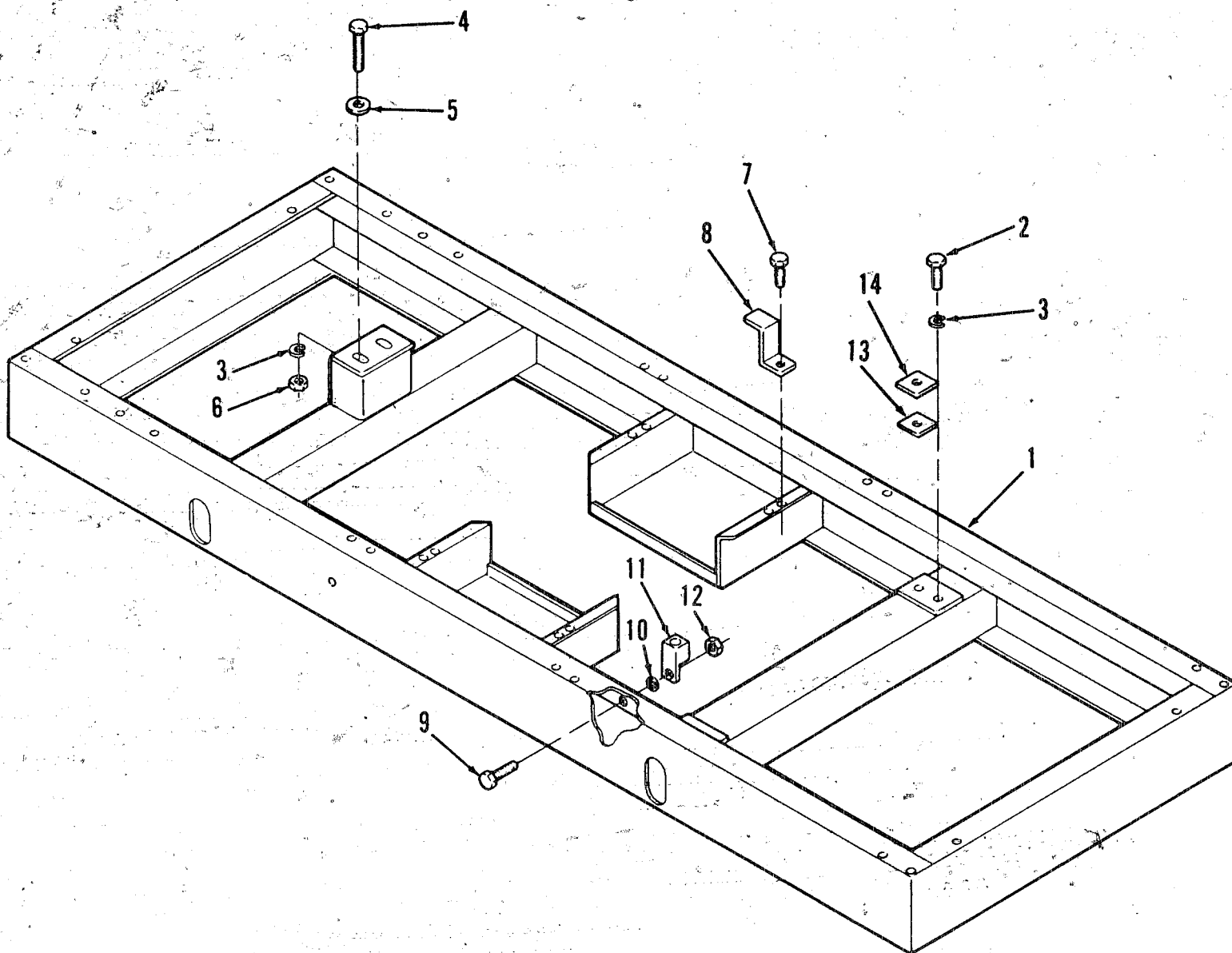
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0189	4	Clamp, Hose	19	821-0029	4	Screw, Lock (3/8 - 16 x 3/4")
2	503-0848	1	Hose, Rubber	20	130-2851	1	Bracket, Mounting
3	503-1201	1	Hose, Rubber	21	504-0003	1	Cock, Drain
4	505-0759	3	Pipe, Adapter	22			Heater, Electrical - 4000 Watt
5	505-0041	2	Pipe, Elbow		333-0205	1	115 VAC
6	718-1054	2	Screw, Lock (M10 x 1.5 x 25mm)		333-0143	1	208 VAC
7	331-0027	2	Clamp, Cable		333-0138	1	230 VAC
8	332-0014	2	Terminal (#10) (Used on White Leads)		333-0161	1	480 VAC
9	332-0149	1	Terminal (#8) (Used on White Leads)	23	307-1164	1	Contactor, Electrical (480 VAC)
10	323-0957	1	Nut, Wire (Used on Black Leads)	24	850-2010	2	Washer, Lock (M10)
11	309-0304	1	Switch, Thermostatic	25	332-0149	5	Terminal (Not Shown)
12	505-0004	1	Nipple, Pipe - Close	29	130-2850	1	Bracket, Mounting
13	330-0004	1	Cover, Box - Outlet	30	130-2865	1	Tube, Heater - Water
14	330-0005	1	Box, Outlet - Electrical	31	130-2866	1	Gasket, Tube
15	800-0007	4	Screw, Cap - Hex Head (1/4 - 20 x 1")	32	505-0004	1	Nipple, Close
16	862-0001	4	Nut, Hex (1/4 - 20)	33	812-0100	4	Screw, Machine - Round Head (#10 - 24 x 1/2")
17	850-0040	4	Washer, Lock - Spring (1/4)	34	850-0030	4	Washer, Lock - Spring (#10)
18	526-0018	4	Washer, Flat (1/4)	35	860-0011	4	Nut, Hex (#10 - 24)
				36	505-0041	1	Elbow, 90°

Electric Governor



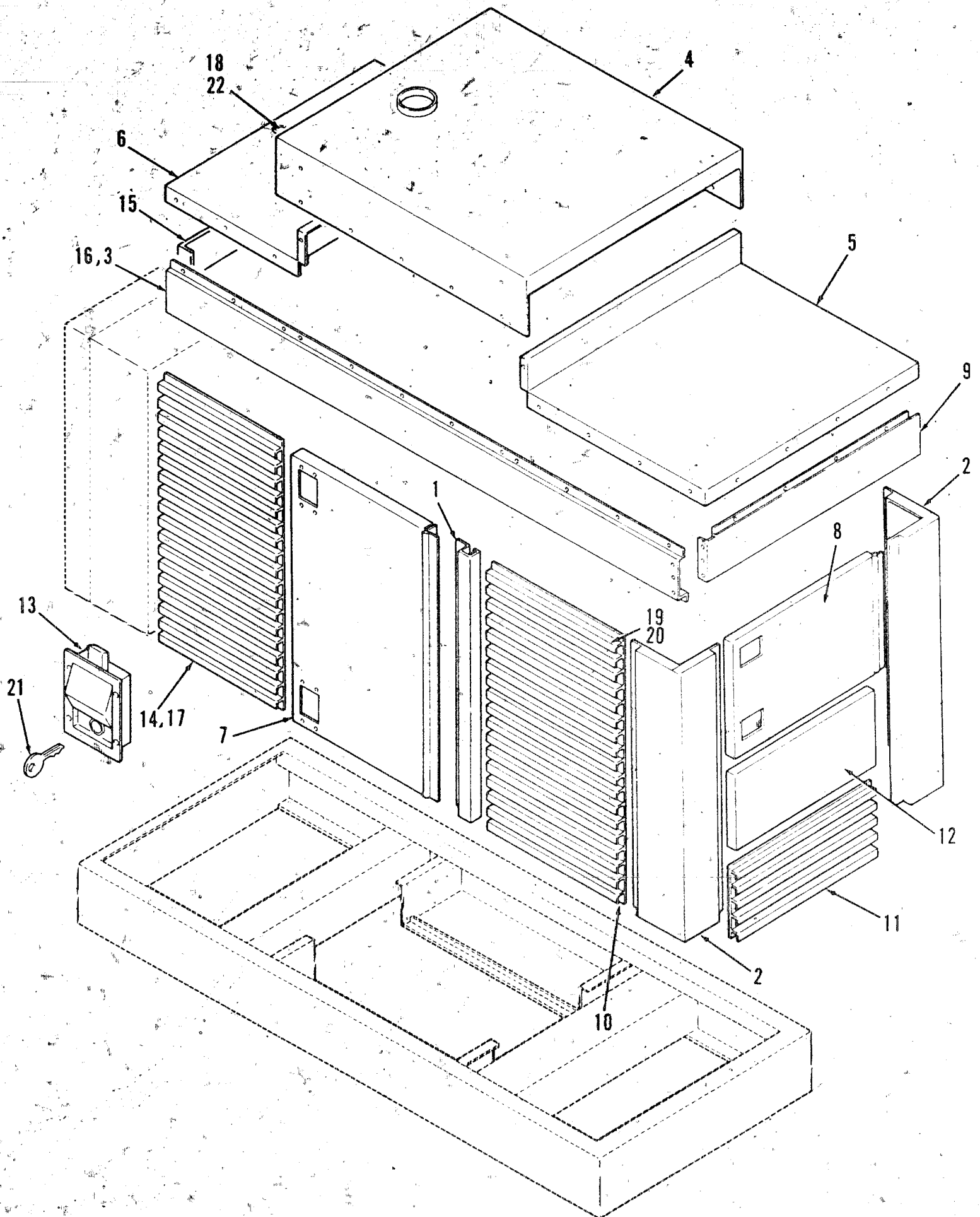
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	151-0612	1	Actuator, Governor	12	520-0964	1	Stud
2	151-0611	1	Control, Governor	13	115-0025	4	Nut, Jam - Hex (1/4 - 28)
3	151-0603-06	1	Sensor, Speed - Magnetic	14	800-2037	4	Screw, Cap - Hex Head (M6 x 1 x 35mm)
4	150-2151	1	Bracket, Mounting - Governor	15	860-2007	4	Nut, Hex (M6 x 1)
5	151-0613	1	Cable, Pickup - Magnetic	16	850-2006	6	Washer, Lock (M6)
6	800-2085	4	Screw, Cap - Hex Head (M10 x 1.5 x 20mm)	17	150-2155	1	Arm, Governor - Electric
7	850-2010	4	Washer, Lock (M10)	18	150-2007	1	Bracket, Controller
8	150-2145	1	Lever, Actuator - Governor	19	800-6170	2	Screw, Cap - Hex Head (M16 x 2 x 25mm)
9	813-0103	4	Screw, Machine - Round Head (#10 - 32 x 3/4")	20	850-2016	2	Washer, Lock (M16)
10	870-0131	4	Nut, Hex - ET (#10 - 32)	21	850-0040	2	Washer, Lock (1/4)
11	150-1995	2	Joint, Ball				

Chassis



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-2445	1	Skid	8	416-0850	4	Bracket, Battery
2	800-0153	4	Screw, Cap - Hex Head (3/4 - 10 x 1-1/2")	9	821-0016	1	Screw, Lock (5/16 - 18 x 3/4")
3	850-0079	6	Washer, Lock (3/4)	10	856-0008	1	Washer, Lock - EIT (5/16)
4	800-0156	2	Screw, Cap - Hex Head (3/4 - 10 x 2-1/4")	11	332-1473	1	Lug, Solderless
5	526-0238	2	Washer, Flat (3/4)	12	870-0257	1	Nut, Lock (5/16 - 18)
6	862-0008	2	Nut, Hex	13	232-1489	6	Shim, Mounting (16 Ga)
7	800-0048	4	Screw, Cap - Hex Head (3/8 - 16 x 3/4")	14	232-1490	6	Shim, Mounting (20 Ga)

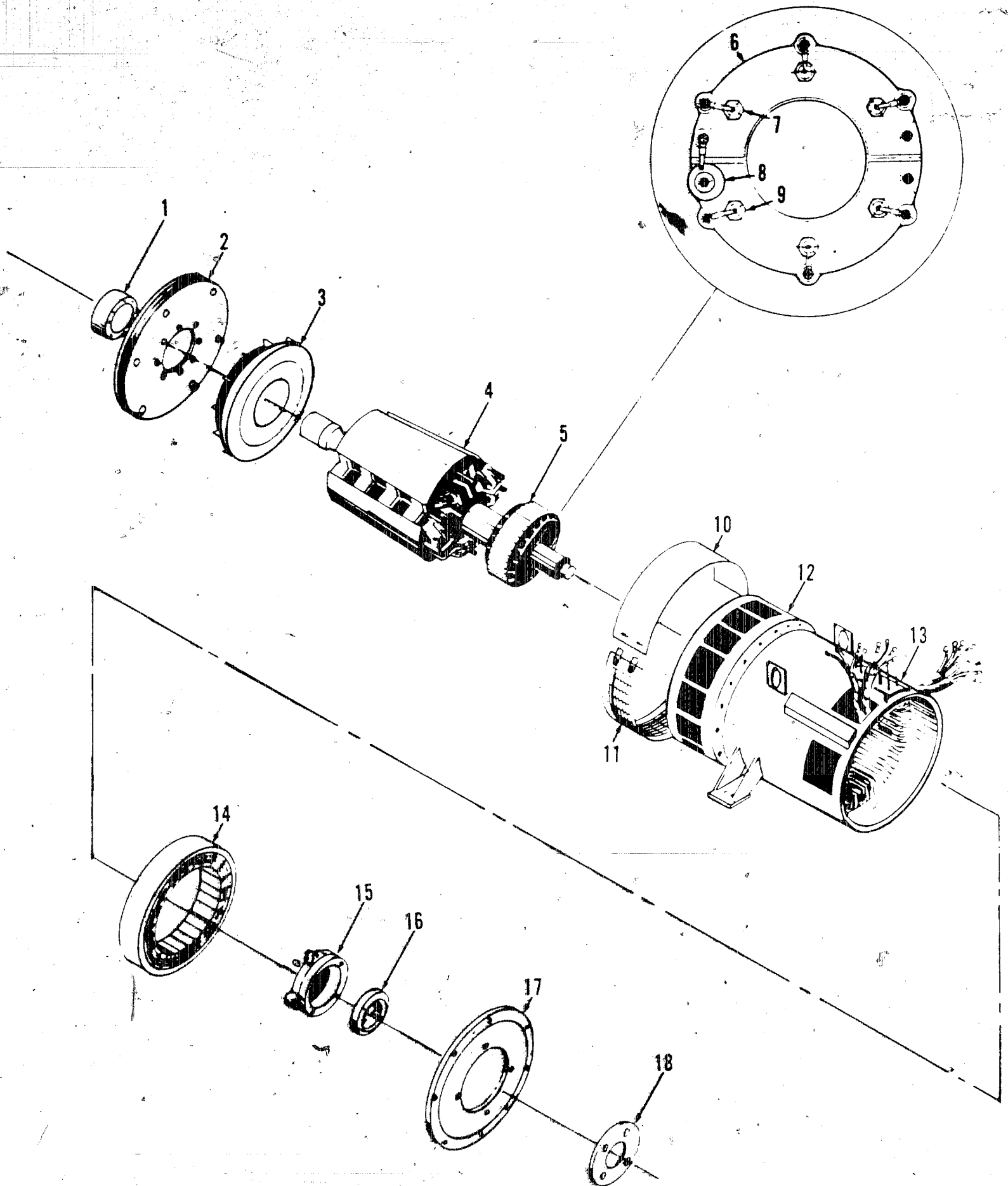
Set Housing



Set Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-3560	2	Post, Housing - Center	18	517-0233	1	Plug
2	405-3441	2	Post, Housing - Rear	19	405-3553	1	Door, Grille (Right Hand)
3	405-3555-01	1	Rail, Side - Roof (Right Hand)	20	405-3554	1	Door, Grille (Left Hand)
4	405-3558	1	Roof, Housing - Center	21	406-0577	1	Key, Latch
5	405-3557	1	Roof, End - Generator	22	98-5429	2	Decal, Fill - Cool
6	405-3556	1	Roof, End - Engine		821-0014	20	Screw, Lock (5/16 - 18 x 1/2")
7	405-3436	2	Door, Housing - Side		870-0257	50	Nut, Lock - Hex (5/16 - 18)
8	405-3434	1	Door, Control		812-0077	24	Screw, Machine - Round Head (#8 - 32 x 3/8")
9	405-3559	2	Cap, End - Housing Tip (Generator End)		870 0235	24	Nut, Lock (#8 - 32)
10	405-3552	2	Grille, Housing - Side		821-0029	28	Screw, Lock (3/8 - 16 x 3/4")
11	405-3550	1	Grille, Housing - Rear		870-0281	16	Nut, Lock - Hex (3/8 - 16)
12	405-3424	1	Panel, Housing - Rear		819-1102	29	Screw, Pan Head - Recessed (5/16 - 18 x 1/2")
13	406-0576	6	Handle, Housing		816-0098	50	Bolt, Carriage (5/16 - 18 x 5/8")
14	405-3677	1	Door Assembly, Grille (Right Hand)		526-0032	50	Washer, Flat (7/16)
15	405-3562	1	Cap, End - Housing Top (Engine End)		865-0007	4	Nut, Wing (5/16 - 18)
16	405-3555-02	1	Rail, Side - Roof (Left Hand)		128-0109	1	Insulation, Foam
17	405-3678	1	Door Assembly, Grille (Left Hand)		405-3739	2	Stop, Housing - Door
					406-0609	4	Catch, Magnetic

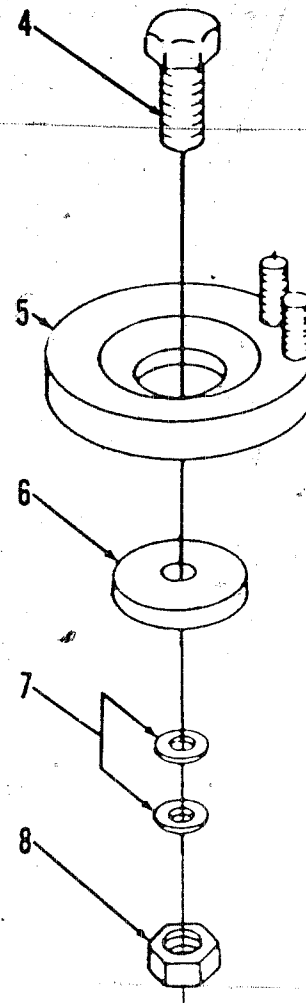
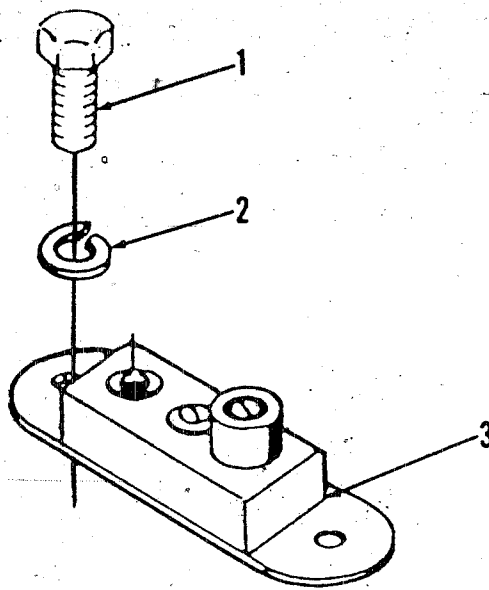
Generator



Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	249-0230	1	Plate, Pressure		249-0202	8	Washer, Lock (M10)
	249-0278	8	Bolt, Coupling	18	249-0242	1	Cap, Bearing
2	249-0276	4	Disc, Coupling		249-0243	4	Screw, Hex Head (M10 x 30mm)
3	249-0254	1	Fan		249-0202	4	Washer, Lock (M10)
	249-0271	1	Key, Fan		249-0248	1	Cover (Not Illustrated)
4	249-0253	1	Rotor Assembly, Generator (Includes Fan, And Exciter Rotor Assembly)		249-0249	2	Clip
					249-0258	1	Panel Assembly, Terminal (Not Illustrated)
5	249-0257	1	Rotor Assembly, Exciter (Includes Main Rectifier Assembly)		249-0259	4	Screw, Hex Head (M10 x 25mm)
	249-0271	1	Key, Rotor - Exciter		249-0260	4	Nut, Hex (M10)
6	249-0237	1	Rectifier Assembly, Main (Includes Varister, And Diodes)		249-0202	4	Washer, Lock (M10)
					249-0261	12	Molding, Terminal (Not Illustrated)
7	249-0239	3	Diode, Forward		249-0216	3	Screw, Hex Head (M8 x 40mm)
8	249-0240	1	Varister		249-0262	8	Screw, Hex Head (M8 x 55mm)
9	249-0238	3	Diode, Reverse		249-0217	16	Nut, Hex (M8)
10	249-0275	1	Cover, Upper		249-0218	16	Washer, Lock (M8)
11	249-0273	1	Cover, Lower		249-0263	8	Washer, Plain (M8)
	249-0274	4	Screw, (M4 x 20mm)		249-0264	4	Terminal, Linking (Not Illustrated)
12	249-0250	1	Bracket, End		249-0265	4	Terminal, Main (Not Illustrated)
	249-0204	8	Screw, Hex Head (M12 x 40mm)		249-0266	24	Screw, Hex Head (M8 x 35mm)
	249-0205	8	Washer, Lock (M12)		249-0217	24	Nut, Hex (M8)
13	249-0252	1	Stator Assembly, Generator		249-0218	24	Washer, Lock (M8)
14	249-0255	1	Stator, Exciter		249-0267	24	Washer, Plain (M8)
	249-0256	6	Screw, Hex Head (M6 x 65mm)		249-0268	4	Screw, Hex Head (M12 x 35mm)
	249-0212	6	Washer, Lock (M6)		249-0269	8	Screw, Hex Head (M12 x 30mm)
15	249-0244	1	Cartridge, Bearing		249-0214	16	Nut, Hex (M12)
	249-0245	4	Screw, Hex Head (M10 x 50mm)		249-0270	16	Washer, Plain (M12)
	249-0202	4	Washer, Lock (M10)		249-0204	4	Screw, Hex Head (M12 x 40mm)
16	249-0241	1	Bearing		249-0205	16	Washer, Lock (M12)
	249-0232	1	Circlip		249-0277	1	Spacer, Coupling (Not Illustrated)
17	249-0272	1	Bracket, End - Non-Drive				
	249-0201	8	Screw, Hex Head (M10 x 35mm)				

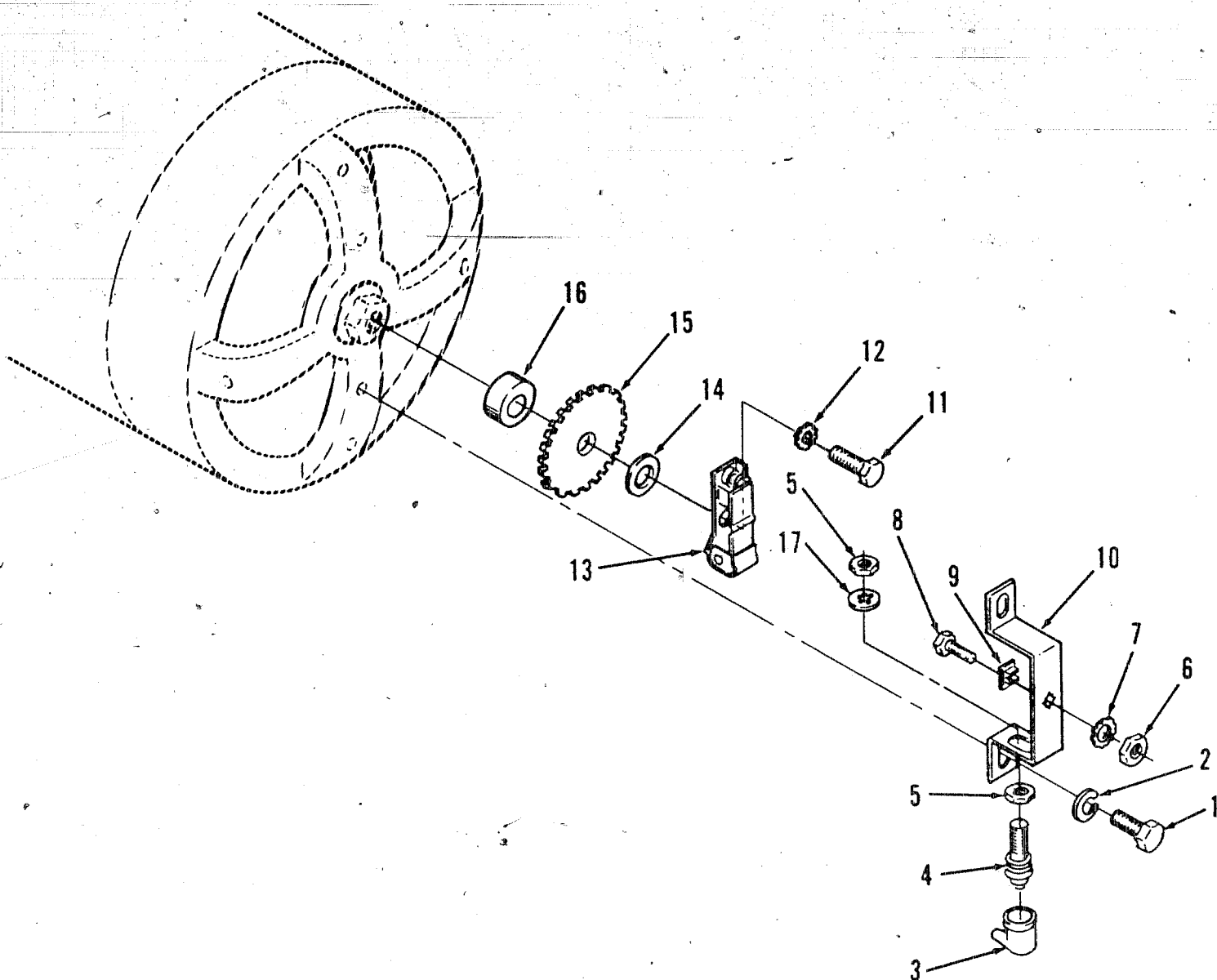
Generator Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	812-0068	2	Screw, Machine - Round Head (#6 - 32 x 1")
2	853-0003	2	Washer, Lock - ET
3	309-0128	1	Thermostat
4	800-0004	2	Screw, Cap - Hex Head (1/4 - 20 x 5/8")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	333-0059	2	Heater - 120 Volt 100 Watt
6	526-0123	2	Washer, Flat
7	526-0018	4	Washer, Flat
8	862-0001	2	Nut, Hex (1/4 - 20)

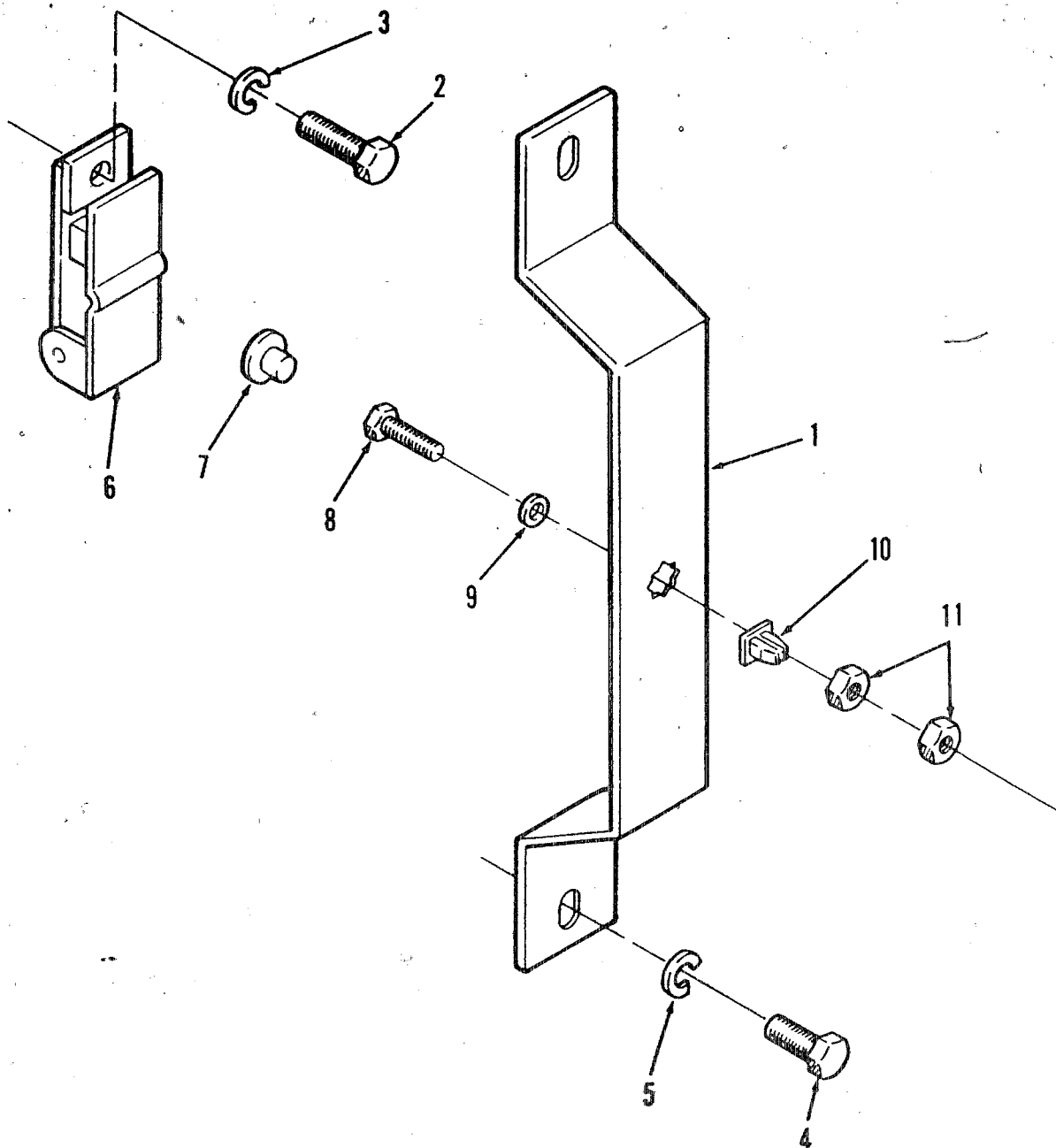
Magnetic Pickup



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0003	2	Screw, Cap - Hex Head (1/4 - 20 x 1/3")
2	850-0040	2	Washer, Lock - Spring (1/4")
3	150-1410	1	Cap, Insulator
4	150-1406	1	Sensor, Speed - Magnetic
5	868-0011	2	Nut, Hex - Jam (3/4 - 16)
6	862-0001	2	Nut, Hex (1/4 - 20)
7	853-0013	1	Washer, Lock - ET (1/4)
8	150-0723	1	Contact, Electrical
9	870-0250	1	Nut, Insulator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	301-9697	1	Bracket, Mounting
11	800-0053	1	Screw, Cap - Hex Head (3/8 - 16 x 1-3/4")
12	856-0010	1	Washer, Lock - EIT (3/8)
13	150-0717	1	Switch, Overspeed
14	526-0077	1	Washer, Flat (13/32" ID x 1-1/4" OD x 1/4" THK)
15	150-1557	1	Wheel, Sensor - Speed
16	370-4011	1	Spacer, Sleeve
17	854-0031	1	Washer, Lock - IT (3/4)

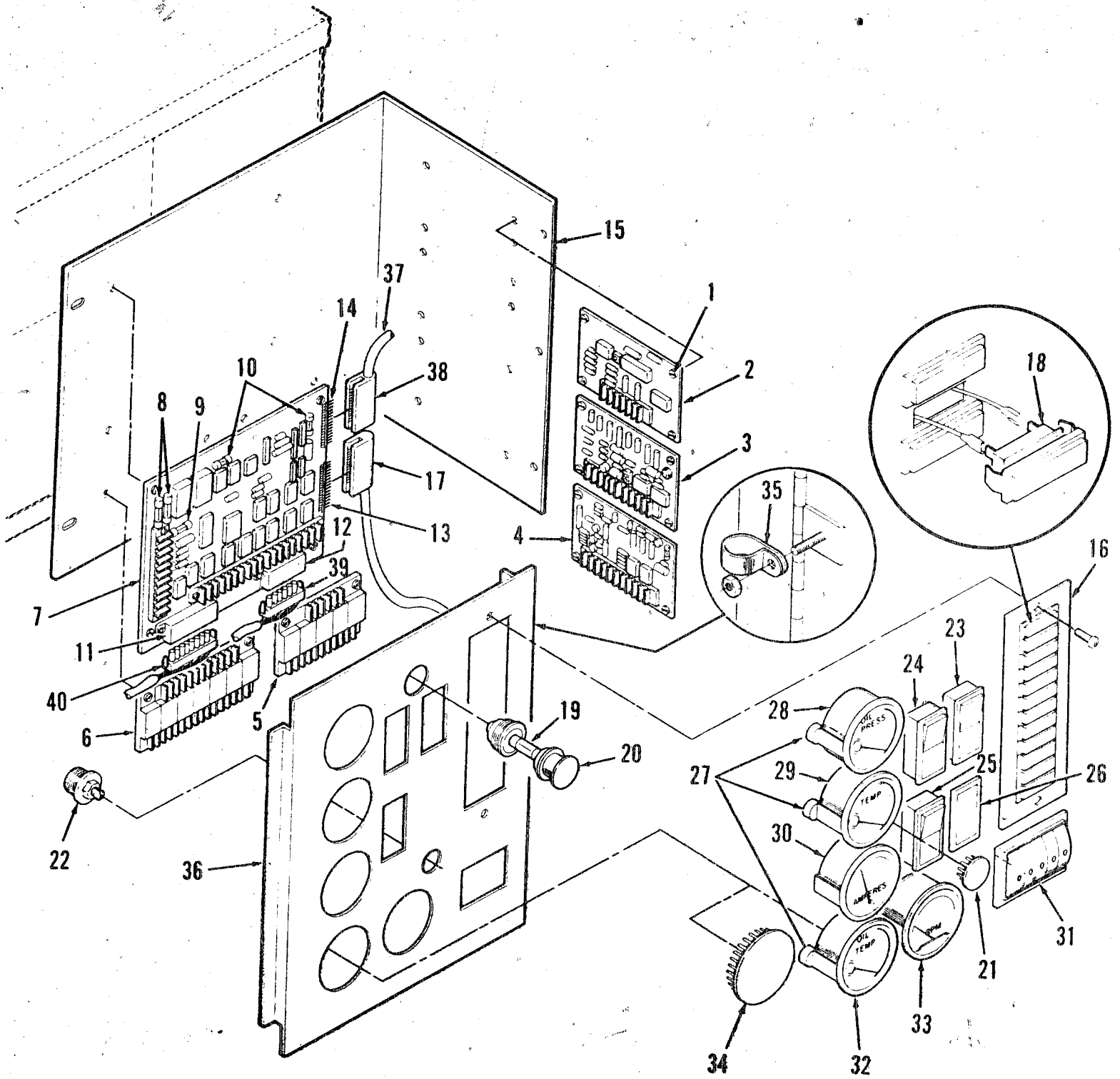
Overspeed Switch



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2138	1	Bracket, Switch - Overspeed
2	718-1056	1	Screw, Cap - Hex Head (M10 x 1.5 x 35mm)
3	850-2010	1	Washer, Lock (M10)
4	718-1035	2	Screw, Cap - Hex Head (M8 x 1.25 x 16mm)
5	850-2008	2	Washer, Lock (M8)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	150-0956	1	Switch Assembly, Overspeed
7	306-0036	1	Contact
8	150-0724	1	Screw, Cap - Hex Head (1/4 - 20 x 7/8")
9	853-0013	1	Washer, Lock - ET (1/4)
10	870-0250	1	Nut, Insulating (1/4)
11	862-0001	2	Nut, Hex (1/4 - 20)

Engine Control

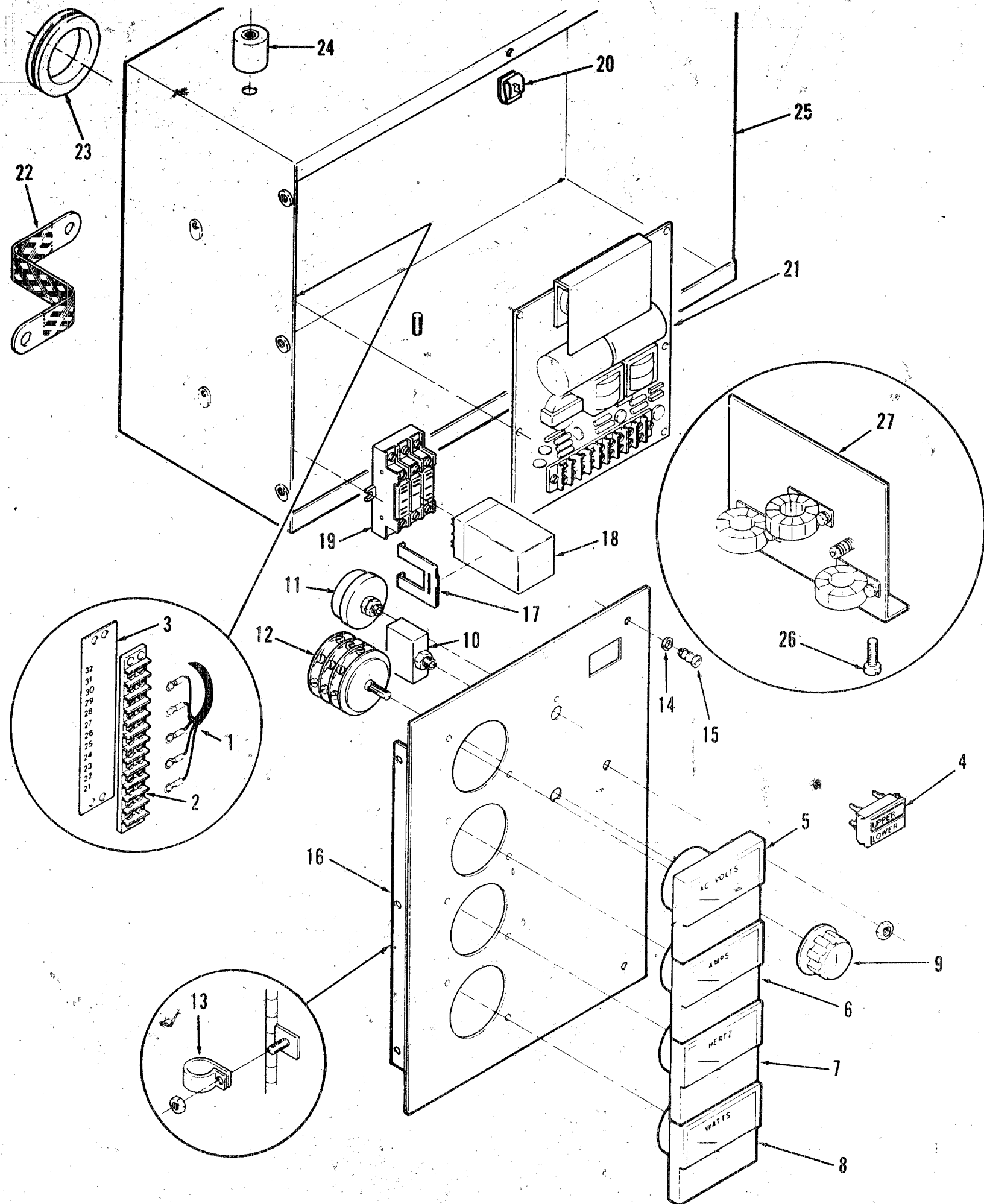


Engine Control

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)	22	151-0402	1	Potentiometer - Speed Control (R11)
			(Includes Fuses & Connectors)	23	308-0785	1	Switch, Push - Reset/Panel Lamp (S11)
	300-2808	1	2 Light Control	24	308-0784	1	Switch, Push - Run/Stop/ Remote (S12)
	300-2810	1	7 Light Control	26	301-6257	1	Cover, Hole - Switch
	300-2812	1	12 Light Control	27	193-0250	3	Resistor, Gauge (R12)
8	321-0270	2	Fuse, Cartridge - 20 Amp (F1, F2)	28	193-0352	1	Gauge, Pressure - Oil (M11)
9	321-0231	1	Fuse, Cartridge - 15 Amp (F3)	29	193-0351	1	Gauge, Temp - Water (M12)
10	321-0094	2	Fuse, Cartridge - 5 Amp (F4, F5)	30	302-1790	1	Meter, Ampere - DC (M13)
11	323-1305	1	Connector - 8 Pin (P1)	31	302-0885	1	Meter, Running Time (M14)
12	323-1303	1	Connector - 6 Pin (P2)	32	193-0330	1	Gauge, Temp - Oil (M15)
13	323-1309	1	Connector - 13 Pin (P3)	33	302-1715	1	Meter, Tach (M16)
14	323-1307	1	Connector - 12 Pin (P4)	34	517-0221	1	Plug, Button
15	301-8851	1	Bracket, Mounting - Printed Circuit Board Assembly	35	322-0052	1	Clamp, Loop
	821-0004	4	Screw, Self-Locking - Hex Washer Head (#10 - 32 x 5/16")		870-0131	1	Nut, Self-Locking - ET Hex Washer Head (#10 - 32)
16			Module, Indicator - Fault (A12) (Includes Connector Housing)	36			Door, Control
	322-0358-02	1	2 Light Control		301-9055-01	1	5 Gauge Holes
	322-0359-02	1	7 Light Control		301-9055-02	1	3 Gauge Holes
	322-0360-02	1	12 Light Control	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.

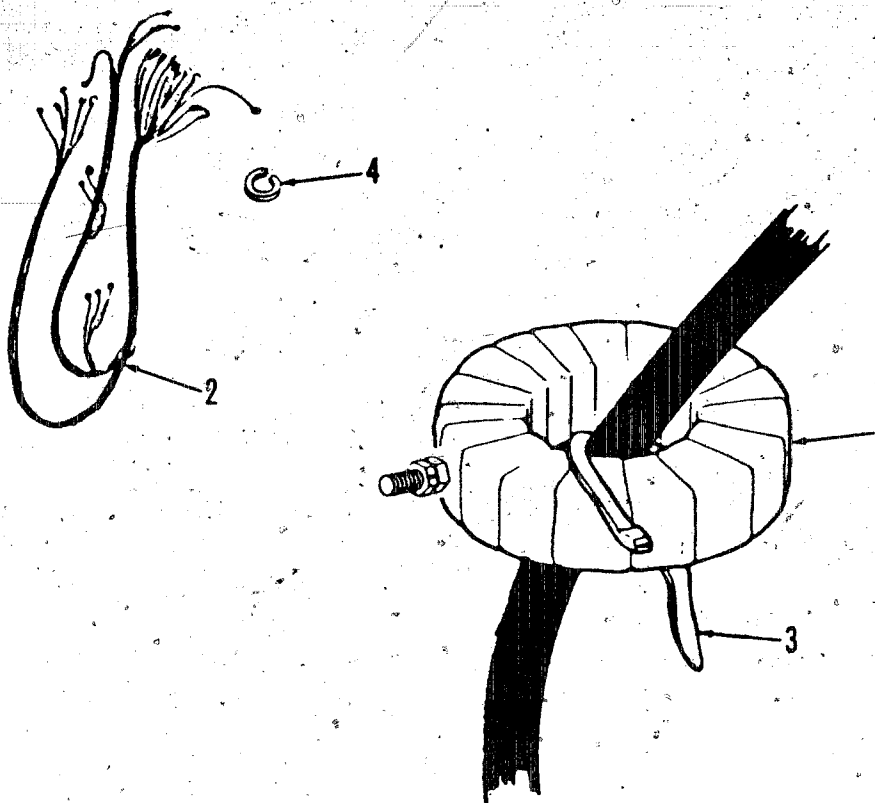
Generator Control



Generator Control

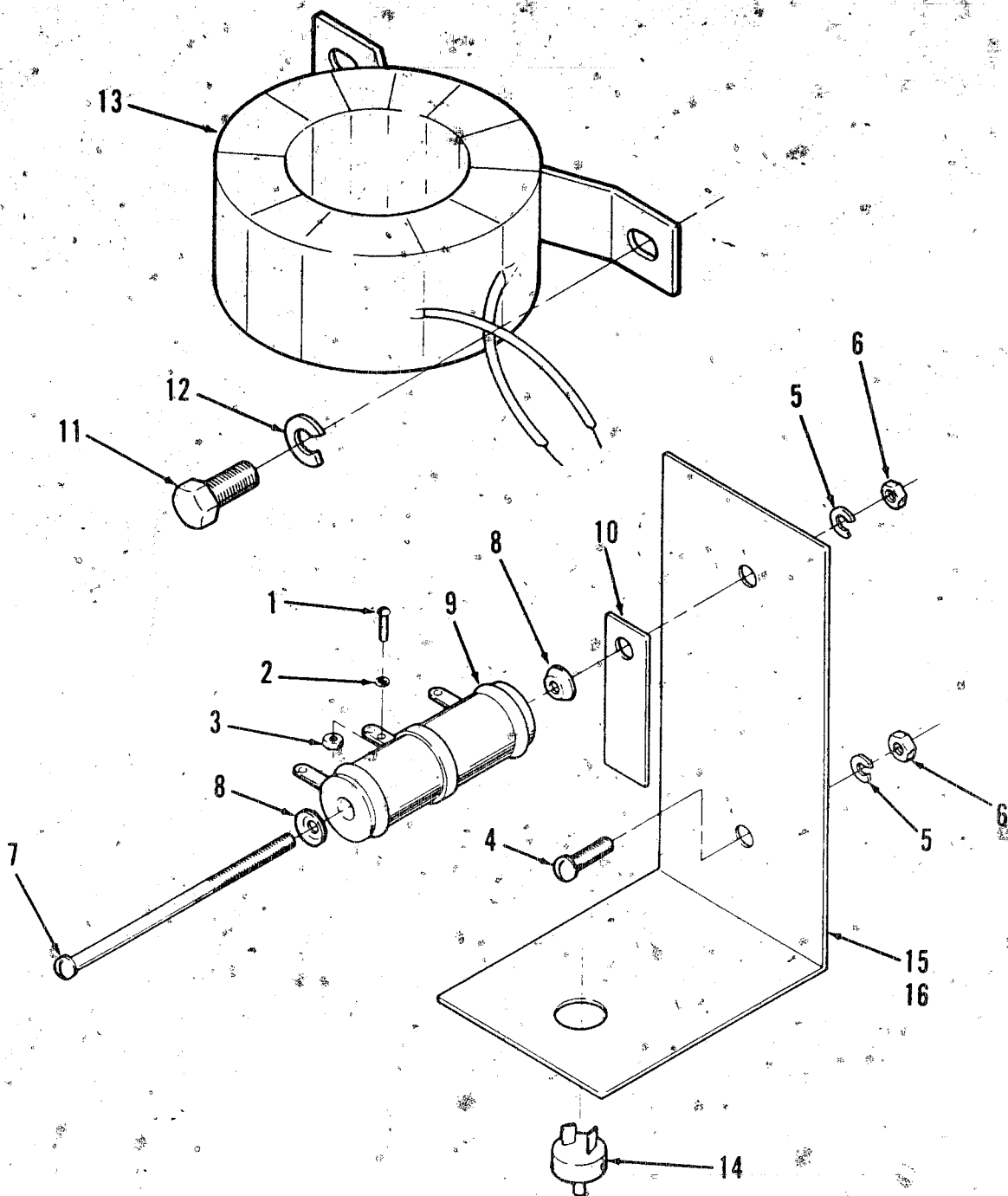
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring - AC		301-9054-02	1	3 Meter Holes
			(Includes Terminal Block)		301-9054-03	1	No Meter Holes
	338-1818	1	Controls With Meters		821-0004	3	Screw, Self-Locking - Hex
	338-1853	1	Controls Without Meters				Washer Hd (#10 - 32 x
	812-0065	2	Screw, Machine - Round				5/16")
			Head (#6 - 32 x 5/8")	17	307-1987	2	Clip, Retaining - Relay
2	332-0607	1	Block, Terminal (TB1)	18	307-1056	1	Relay, 24 VDC
3	332-2723	1	Strip, Marker	19	323-0804	1	Socket, Relay
4	322-0363	1	Light, Indicator - Dual		815-0544	2	Screw, Machine - IT Round
			(DS21, DS22)				Washer Hd (#6 - 32 x 1/2")
5	302-1148	1	Meter, Volt - AC (M21)	20	406-0332	2	Receptacle, Turnbutton
6	302-1729		Meter, Ampere - Dual Scale				Fastener
			Ratio 0-750/1500 (M22)	21	300-2977	1	Regulator, Voltage (VR21)
7	302-1720	1	Meter, Frequency (M23)		815-0544	6	Screw, Machine - IT Round
8		1	Meter, Watt (M24) (See				Washer Hd (#6 - 32 x 1/2")
			Separate Page For Components)	22	337-0049	1	Strap, Electrical (Ground)
9	303-0032	1	Knob		800-0024	1	Screw, Cap - Hex Head
10		1	Breaker, Circuit (CB21)				(5/16 - 18 x 1/2")
	320-1121	1	Without Auxiliary Contacts		856-0008	1	Washer, Lock - EIT (5/16)
	320-1438	1	With Auxiliary Contacts	23	508-0051	1	Grommet
11	303-0261	1	Rheostat (R21)	24	402-0527	4	Mount, Vibration
12	308-0284	1	Switch, Rotary (S21)		800-0045	4	Screw, Cap - Hex Head
13	332-0052	1	Clamp, Loop				(5/16 - 18 x 3/8")
	870-0131	1	Nut, Self-Locking - ET Hex		850-0045	4	Washer, Lock - Spring (5/16
			Washer Head (#10 - 32)	25	301-8065	1	Box, Control
14	406-0334	2	Clip, Retaining - Turnbutton	26	821-0010	2	Screw, Self-Locking - Hex
			Fastener				Washer Hd (1/4 - 20 x 1/2")
15	406-0333	2	Stud, Fastener - Turnbutton	27		1	Transformer Assembly - Current
16			Door, Control				(See Separate Page For
	301-9054-01	1	4 Meter Holes				Components)

Current Transformer



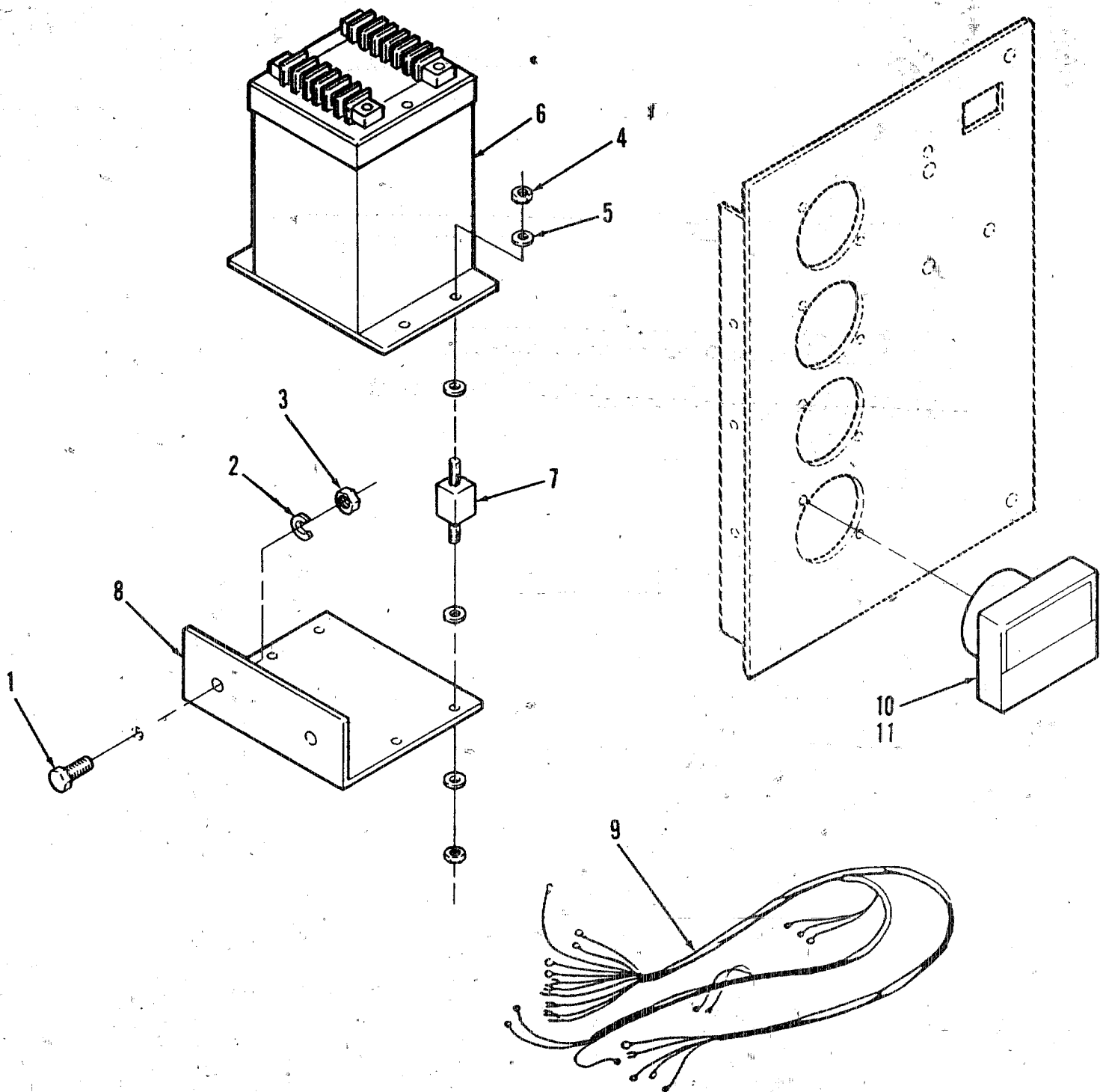
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1794-11	1	Transformer, Current - Ratio 600/5	3	332-1389	5	Tie, Cable
2	338-1980	1	Harness, Wiring - Transformer	4	856-0008	2	Washer, Lock - EIT (5/16)

Cross Current Transformer



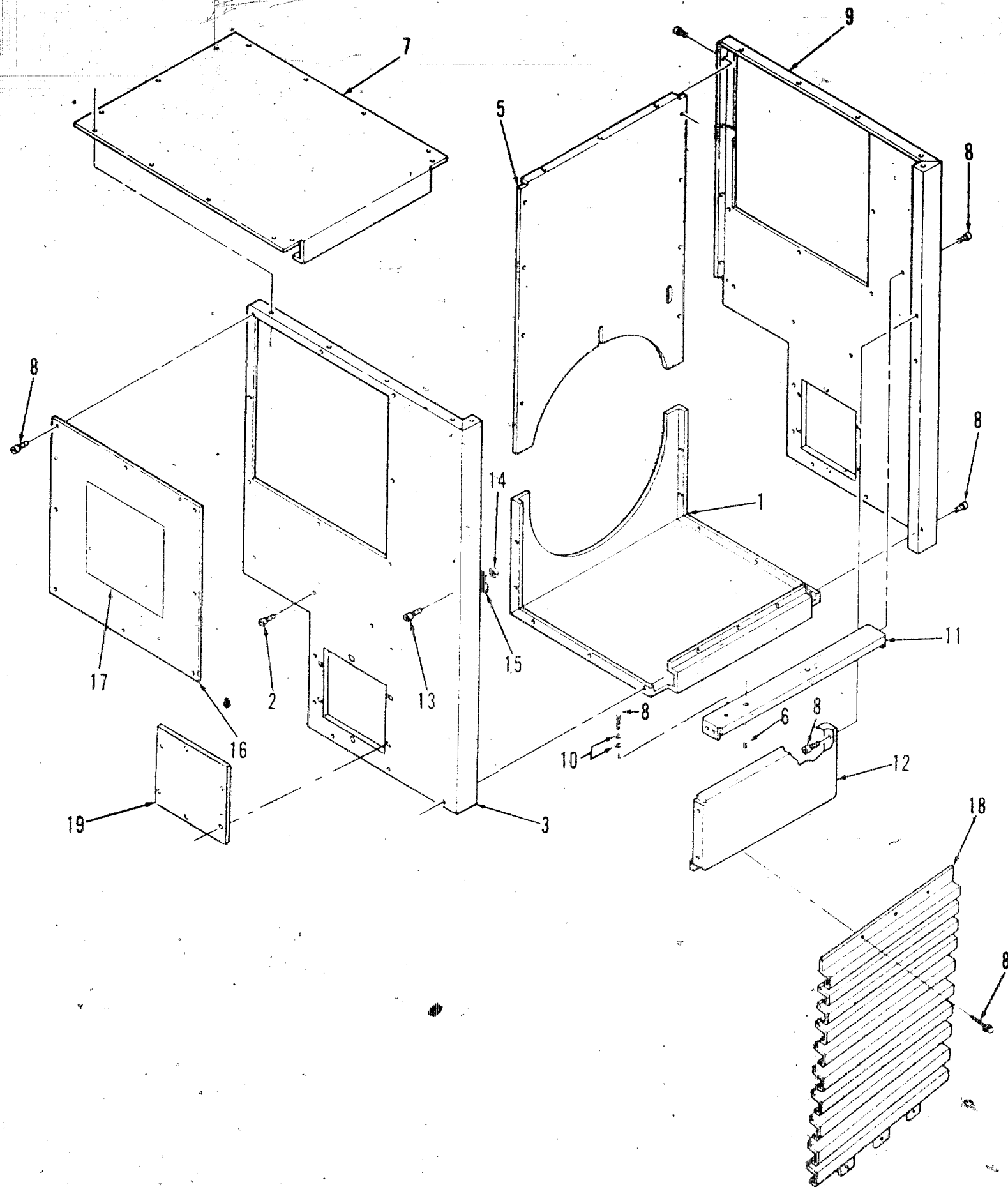
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	812-0061	3	Screw, Machine - Round Head (#6 - 32 x 3/8")	8	304-0014	2	Washer, Centering (7/32)
2	853-0003	6	Washer, Lock - ET (#6)	9	304-0005	1	Resistor, Current - Cross
3	860-0006	6	Nut, Machine - Hex (#6 - 32)	10	304-0292	1	Insulator, Resistor
4	813-0100	1	Screw, Machine - Round Head (#10 - 32 x 1/2")	11	800-0003	2	Screw, Cap - Hex Head (1/4 - 20 x 1/2)
5	850-0030	2	Washer, Lock (#10)	12	850-0040	2	Washer, Lock (1/4)
6	870-0053	2	Nut, Hex (#10 - 32)	13	302-0826	1	Transformer
7	813-0113	1	Screw, Machine - Round Head (#10 - 32 x 2-3/4")	14	308-0069	1	Switch, Toggle
				15	301-9657	1	Bracket, Current - Cross
				16	98-2313	1	Decal

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 Transducer
3	862-0014	2	Nut, Hex (5/16 - 18)	9	338-1936	1	Harness, Wiring - Watts Transducer
4	860-0008	8	Nut, Hex (#8 - 32)	10	302-1722	1	Meter, Watt - DC
5	856-0002	16	Washer, Lock - EIT (#8)	11	302-1721-12	1	Dial, Wattmeter
6	302-1082	1	Transducer, Watts 3 Phase, 60 Hertz				
	302-1083	1	Transducer, Watts 3 Phase, 50 Hertz				

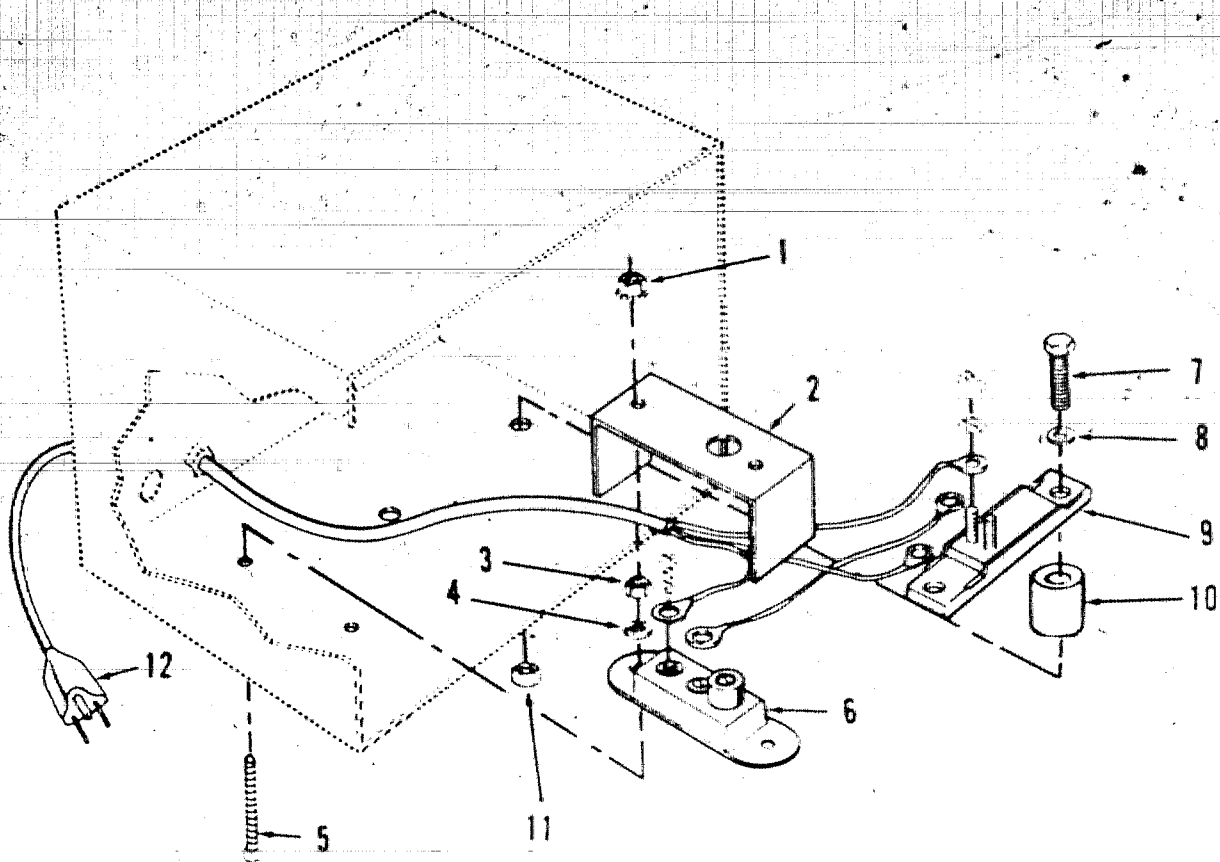
Control Housing



Control Housing

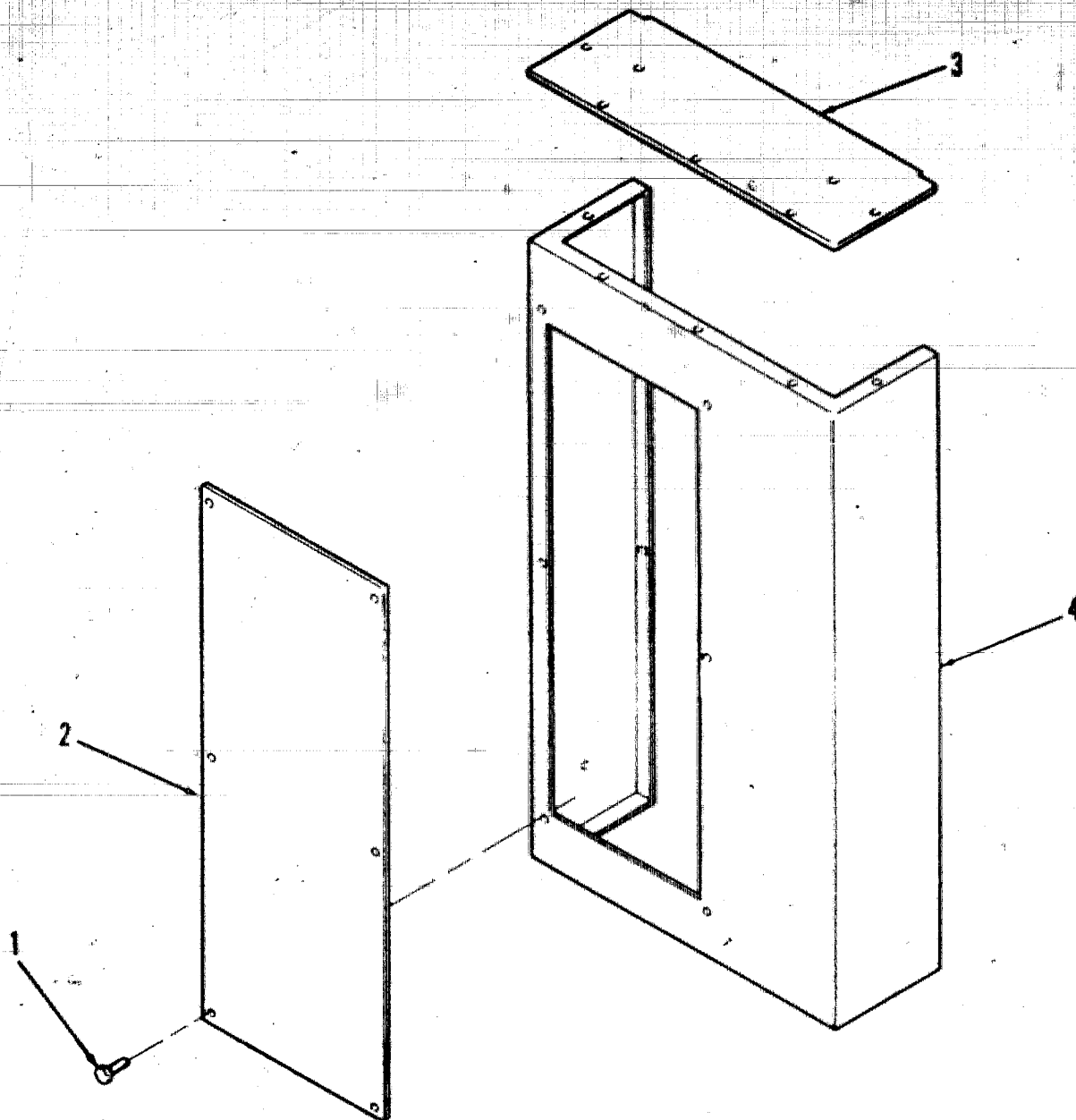
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9508	1	Panel, Housing - Control (Bottom)	11	301-9510	2	Support, Box - Control
2	821-0029	6	Screw, Lock (3/8 - 16 x 3/4")	12	301-9505	1	Panel, Housing - Control (Front)
3	301-9504-01	1	Panel, Housing - Control (Side) (Right Hand)	13	821-0018	1	Screw, Lock (1/4 - 20 x 5/8")
4	508-0051	1	Grommet	14	870-0212	1	Nut, Lock (1/4 - 20)
5	301-9507	1	Panel, Housing - Control (Rear)	15	332-1356	1	Clamp, Loop
6	821-0014	4	Screw, Lock (5/16 - 18 x 1/2")	16	301-9511	2	Cover Assembly, Housing - Control
7	301-9512	1	Cover, Housing - Control (Top)	17	98-5513	2	Decal, Connection - Generator
8	821-0010	56	Screw, Lock (1/4 - 20 x 1/2")	18	234-0490	1	Grille, Inlet - Air (Generator)
9	301-9504-02	1	Panel, Housing - Control (Side) (Left Hand)	19	301-9629	2	Cover, Housing - Control (Side)
10	856-0006	2	Washer, Lock - EIT (1/4)				

Control Heater



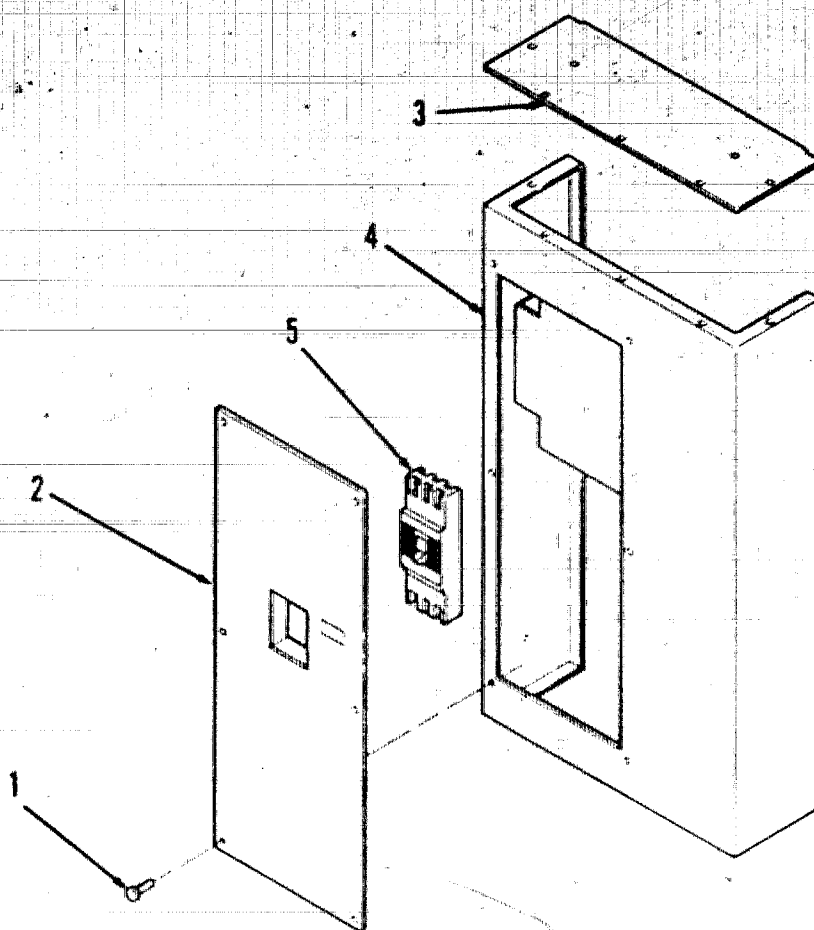
REF. NO.	PART NO.	QTY USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0183	2	Nut, Self-Locking - Hex ET (#6 - 32)	7	800-0034	2	Screw, Cap - Hex Head (5/16 - 18 x 2-1/4")
2	301-1886	1	Cover, Thermostat	8	526-0113	2	Washer, Flat (11/32" ID x 1" OD x 3/32" THK)
3	860-0006	2	Nut, 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

Entrance Box



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0010	22	Screw, Lock (1/4 - 20 x 1/2")	3	301-9653	2	Panel, Breaker - Circuit
2	301-9698	1	Cover, Box - Entrance	4	301-9655	1	Box, Breaker - Circuit

Circuit Breaker



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0010	22	Screw, Lock - Hex Head (1/4 - 20 x 1/2")	526-0108	4	Washer, Flat (1/4)	
2			Cover, Box - Circuit Breaker	850-0040	4	Washer, Lock (1/4)	
	301-9652	1	With Cutout Box	320-1461-07	1	700 Amp	
	301-9651	1	Without Cutout Box (Not Illustrated)	320-1461-08	1	800 Amp	
3	301-9653	2	Panel, Breaker - Circuit	320-1461-09	1	1000 Amp	
4	301-9654	1	Box, Breaker - Circuit (Includes Mounting Bracket)	320-1461-10	1	1200 Amp	
5			Breaker, Circuit	800-0031	4	Screw, Hex Head (5/16 - 18 x 1-1/2")	
	320-1460-10	1	450 Amp.	526-0115	4	Washer, Flat (5/16)	
	320-1460-11	1	500 Amp	850-0045	4	Washer, Lock (5/16)	
	320-1460-12	1	600 Amp	98-2304	1	Decal, Warning - Circuit Breaker	
	812-0157	4	Screw, Round Head (1/4 - 20 x 1-3/4")				