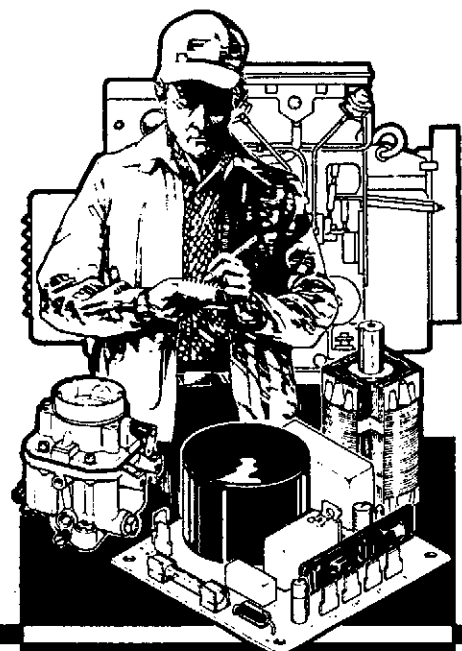


Onan

Parts Manual

DKC

GenSet



Onan Service Parts

981-0221
8-90 (SPEC A-B)
Replaces 12-88 (SPEC A-B)
Printed in U.S.A.



**Power
Generation**

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SAFETY PRECAUTIONS

The following symbols are used in Onan manuals to alert users to the potentially dangerous conditions relating to maintenance of the equipment and replacement of parts. Please read and observe.

⚠ DANGER *This symbol warns of immediate hazards which will result in severe personal injury or death.*

⚠ WARNING *This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.*

⚠ CAUTION *This symbol refers to a hazard or unsafe practice which can result in personal injury or product or property damage.*

MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO., and SERIAL NO. from the Onan nameplate.

For handy reference, insert your nameplate information in the spaces below:

MODEL AND SPEC NO. _____

SERIAL NO. _____

PRODUCT SAFETY PRECAUTIONS

⚠ WARNING

Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.

⚠ WARNING

Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!

⚠ WARNING

Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives, or using solvents take all necessary precautions not to ingest, breathe the fumes, or contact the liquids. Use adequate ventilation and wear protective gloves, masks and clothing!

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Introduction

This Parts Manual applies to the Standard Generator 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 of the parts lists, 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 side of the Set are determined by FACING the engine end (Front) of the Set.

NOTICE!

VARIATIONS WITHIN MODEL(S)

- I. GOVERNOR: Style I has a flyball type system; Style II has a flyweight type system. (See the Gearcase Illustration for visual external differences, and the Fuel System - Injection Pump for internal differences.)

Set Data Table

MODEL IDENTIFICATION	RATING	MODEL IDENTIFICATION	RATING
3.5 DKC-*/#@	3,500 WATTS	4.0 DKC-*/#@	4,000 WATTS

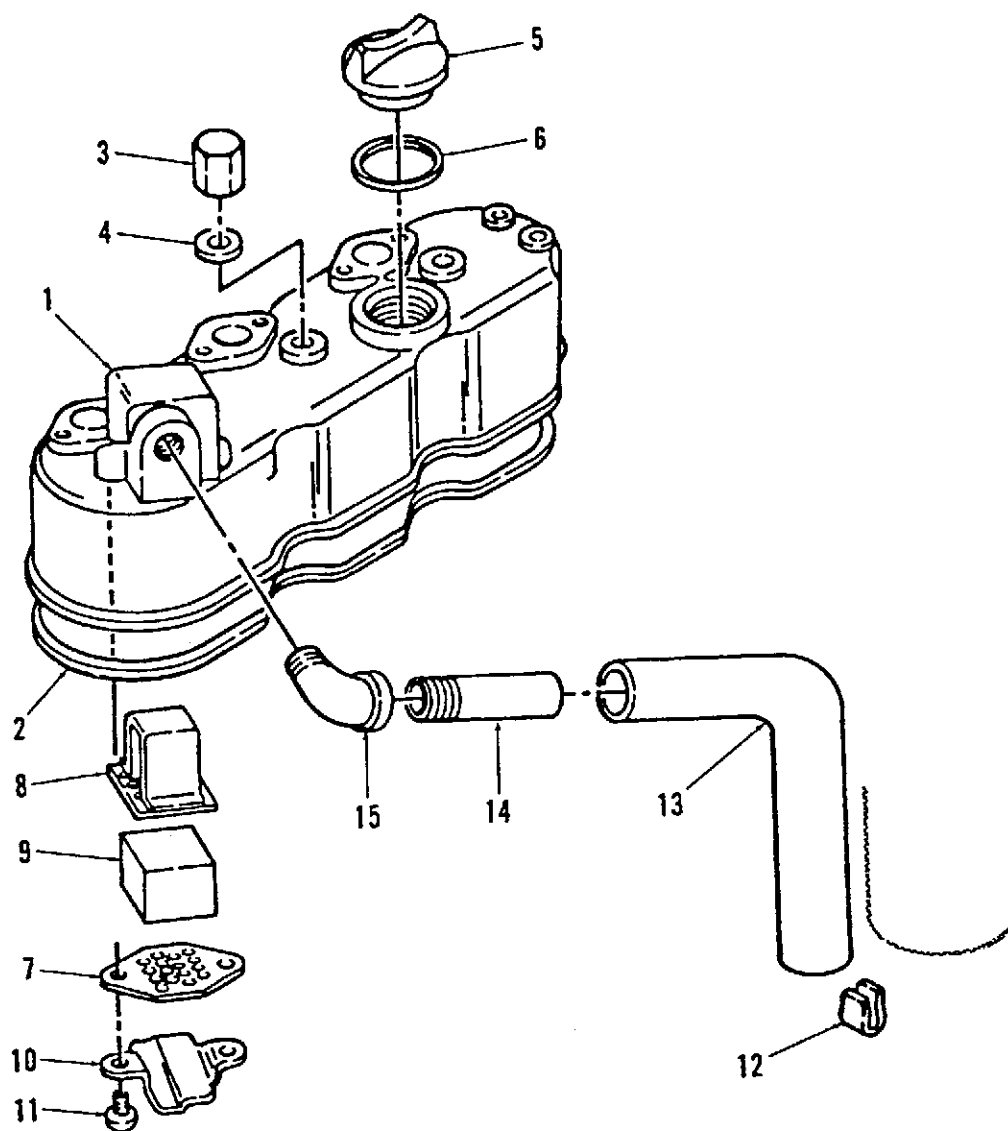
- * - Voltage Codes follow model letter designations.
- # - Specification Number: Number 1 is Standard, all others indicate variations.
- @ - Specification Letter: Letter advances (A to B, B to C, etc) with major manufacturing changes.
- + - These Generators are reconnectible, refer to Operator's Manual for wiring data.

Electrical Data Table

B - 120/240 Volt, 60 Hertz, 1 Phase, 3 Wire
C - 120/208 Volt, 60 Hertz, 3 Phase, 4 Wire
D - 120/240 Volt, 60 Hertz, 3 Phase, 4 Wire
G - 277/480 Volt, 60 Hertz, 3 Phase, 4 Wire
J - 120/240 Volt, 60 Hertz, 3 Phase, 4 Wire
L - Reconnectible, 60 Hertz (Broad Range)
P - 120/240 Volt, 50 Hertz, 1 Phase, 4 Wire
Z - Reconnectible, 50 Hertz (Broad Range)
R - Special (Specification Number Req'd to Identify)

1 - 120 Volt, 1 Phase, 2 Wire
3 - 120/240 Volt, 1 Phase, 3 Wire
3C - 120/240 Volt, 1 Phase, 4 W (Reconnectible)
4 - 120/208 Volt, 3 Phase, 4 Wire
4X - 277/480 Volt, 3 Phase, 4 Wire
5D - 120/240 Volt, 3 Phase, 4 W (Delta Wound)
9X - 347/600 Volt, 3 Phase, 4 Wire
18 - Broad Range, 1 & 3 Phase, 12 Wire

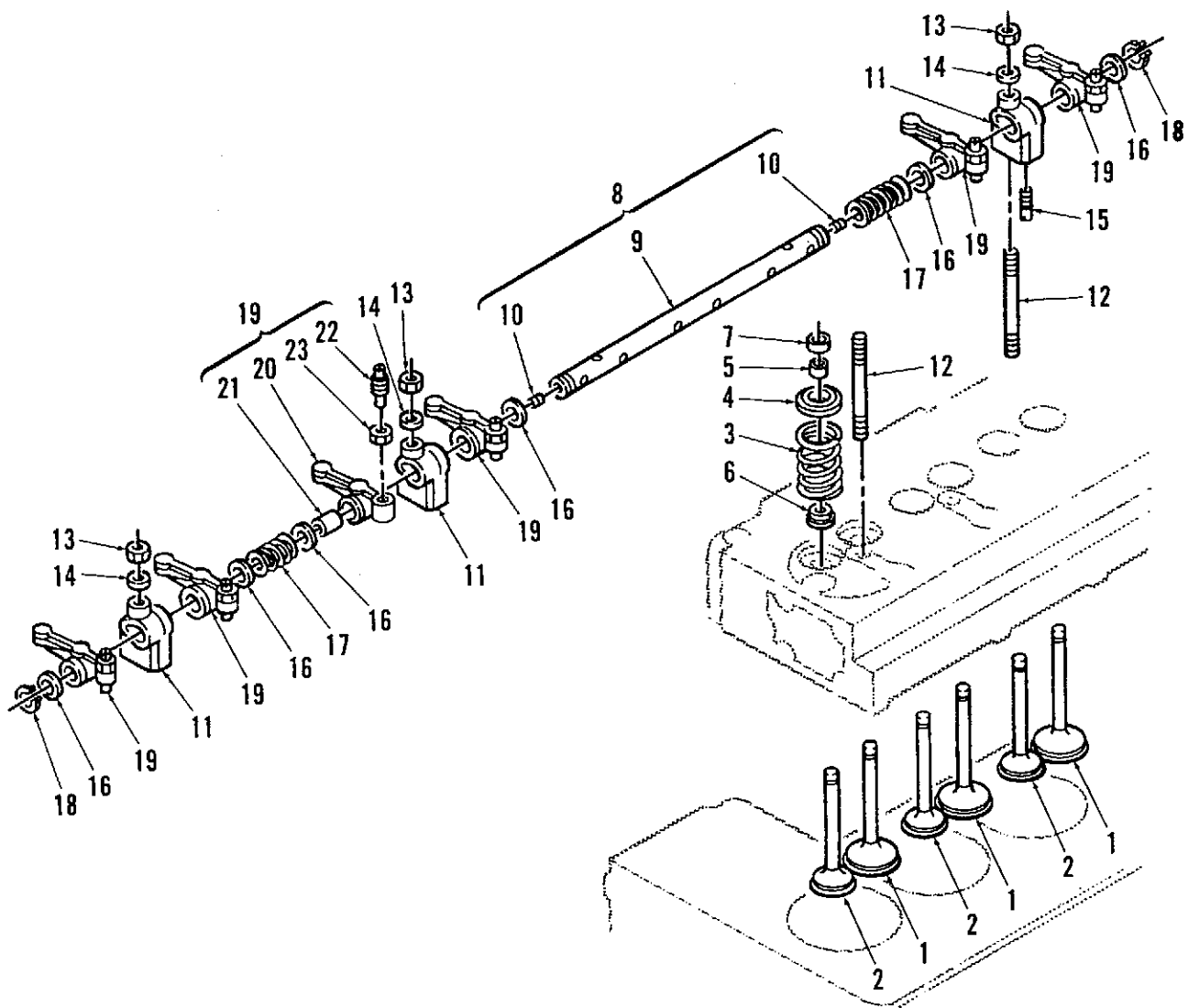
Valve Cover & Breather



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2280	1	Cover, Cylinder Head
2	185-2217	1	Gasket
3	185-2290	3	Nut, Cap
4	185-2291	3	Seal, Oil
5	185-2093	1	Cap, Oil Fill
6	185-2349	1	O-Ring
7	185-2287	1	Plate, Breather
8	185-2230	1	Baffle, Breather
9	185-2232	1	Element, Breather

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	185-2288	1	Shield, Breather
11	185-2384	2	Screw, Machine -- Pan Head with Lockwasher
12	518-0449	1	Clip, Retaining
13	503-1321	1	Hose, Rubber (7/16" ID x 5/8" OD x 26-1/2" LG)
14	505-0302	1	Nipple, Pipe - Half
15	505-0011	1	Elbow, Pipe - Street, 90°

Rocker Arm

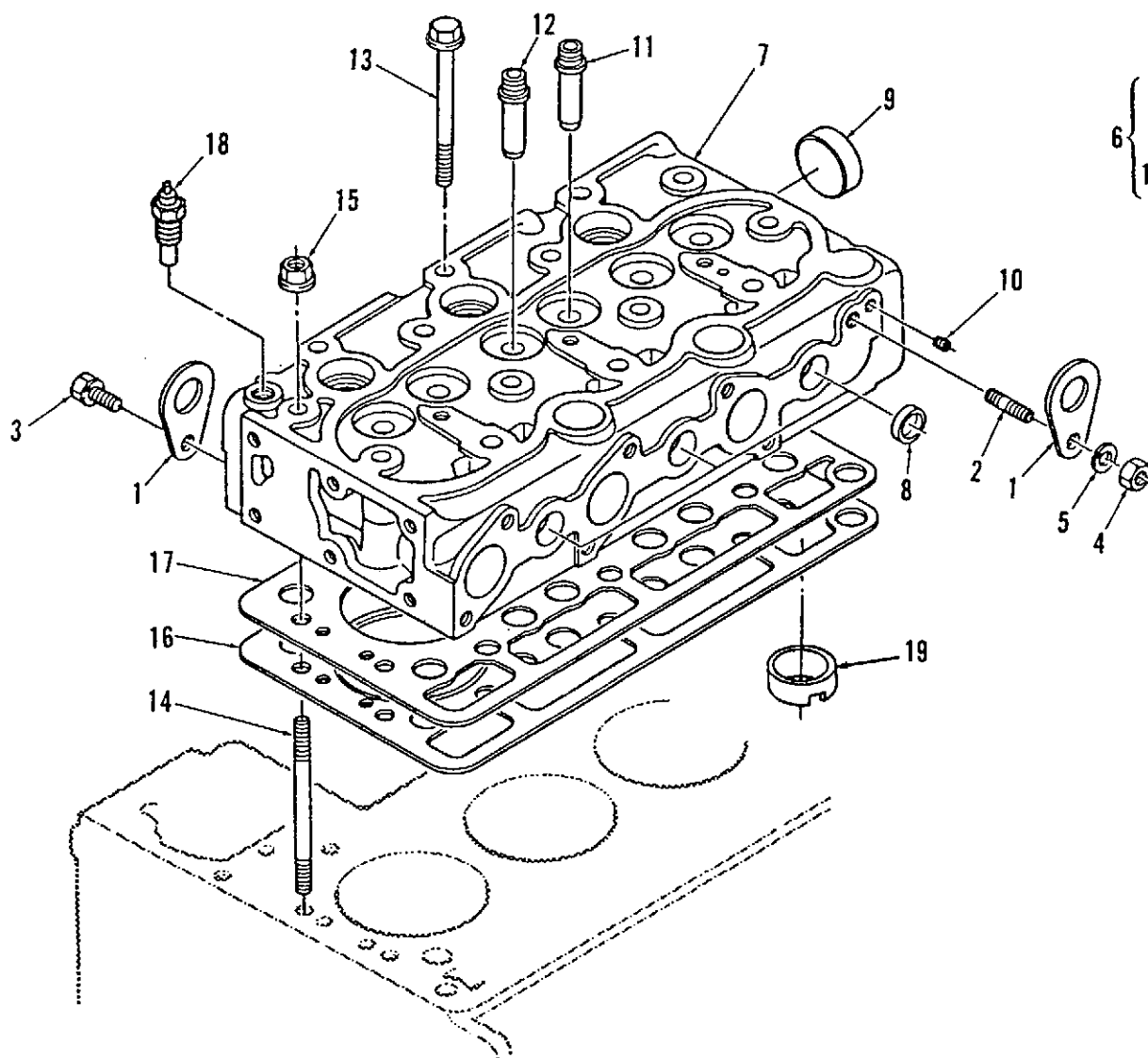


VT-1031

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	185-2064	3	Valve, Inlet
2	185-2065	3	Valve, Exhaust
3	185-2079	6	Spring, Compression
4	185-2076	6	Retainer, Spring
5	185-2077	12	Collet, Spring
6	185-2078	3	Seal, Oil - Inlet Valve
	185-2431	3	Seal, Oil - Exhaust Valve
7	185-2080	6	Cap, Valve Stem
8	185-2204	1	Shaft, Rocker Arm
9	NFS		Shaft
10	185-2375	2	Setscrew
11	185-2071	3	Bracket, Support

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
12	185-2292	3	Stud
13	185-2179	3	Nut, Hex
14	185-2184	3	Washer, Flat
15	185-2072	1	Setscrew
16	185-2073	6	Washer, Flat
17	185-2070	2	Spring, Compression
18	185-2368	2	Ring, Retaining
19	185-2062	6	Arm, Rocker
20	NFS		Arm
21	185-2063	6	Bushing, Sleeve
22	185-2407	6	Screw, Adjusting
23	185-2408	6	Nut, Hex

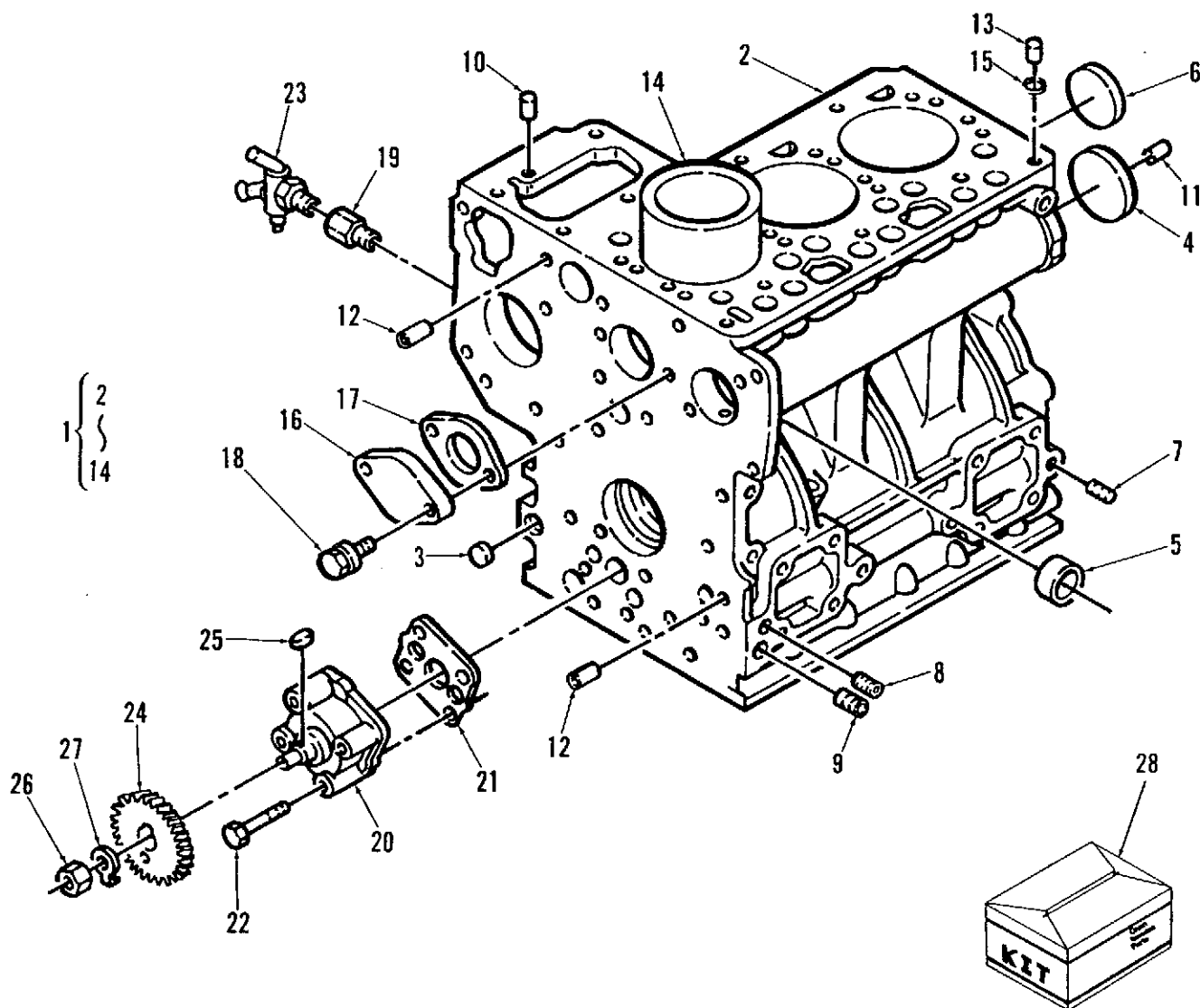
Cylinder Head



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2414	2	Bracket, Lifting
2	185-2361	1	Stud
3	185-2399	1	Screw, Cap - Hex Head with Lockwasher (M8 x 1.25 x 16mm)
4	185-2367	1	Nut, Hex (M8 x 1.25)
5	185-2381	1	Washer, Lock - Spring (M8)
6	185-2050	1	Head, Cylinder
7	NFS		Head, Cylinder
8	185-2413	5	Cup, Sealing
9	185-2411	1	Cup, Sealing
10	185-2188	2	Plug, Pipe - Socket Drive

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	185-2068	3	Guide, Valve - Inlet
12	185-2069	3	Guide, Valve - Exhaust
13	185-2053	12	Bolt, Hex - Cylinder Head
14	185-2052	2	Stud
15	185-2054	2	Nut, Hex
16	185-2066	1	Gasket, Cylinder Head
17	185-2067	2	Shim
18	193-0318	1	Sender, Temperature - Engine Coolant (E2)
19	185-2478	1	Combustion Chamber

Cylinder Block & Oil Pump

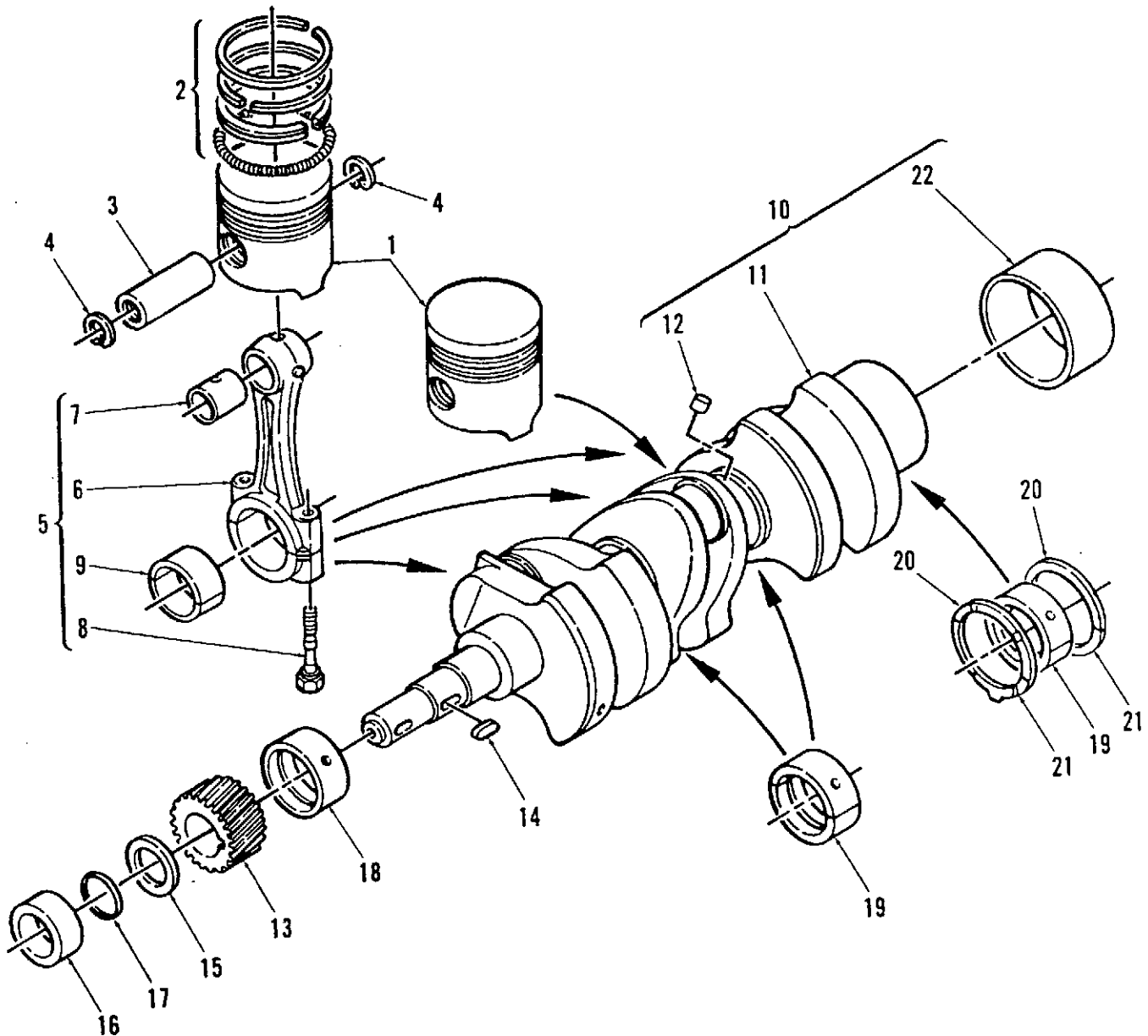


C-1099

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	185-2000	1	Crankcase
2	NFS		Block
3	185-2355	3	Plug, Expansion
4	185-2356	1	Plug, Expansion
5	185-2411	5	Cup, Sealing
6	185-2412	1	Cup, Sealing
7	185-2188	6	Plug
8	185-2233	3	Plug
9	185-2234	1	Plug
10	185-2350	2	Pin, Straight, Headless
11	775-0072	2	Pin, Straight, Headless
12	185-2115	2	Pin, Hollow
13	185-2094	1	Pin, Hollow
14	185-2002	3	Liner, Cylinder

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
15	185-2095	1	O-Ring
16	185-2176	1	Cover Plate
17	185-2177	1	Gasket
18	185-2389	2	Screw, Cap - Hex Head (M6 x 1 x 18MM)
19	185-2229	1	Plug, Hex
20	185-2155	1	Pump, Oil
21	185-2156	1	Gasket
22	185-2409	4	Bolt, Hex with Lockwasher
23	185-2337	1	Cock, Drain
24	185-2293	1	Gear, Drive - Oil Pump
25	185-2352	1	Key
26	185-2365	1	Nut, Hex (M10 x 1.5)
27	185-2382	1	Washer, Lock - Spring (M10)
28	185-2306	1	Kit, Gasket

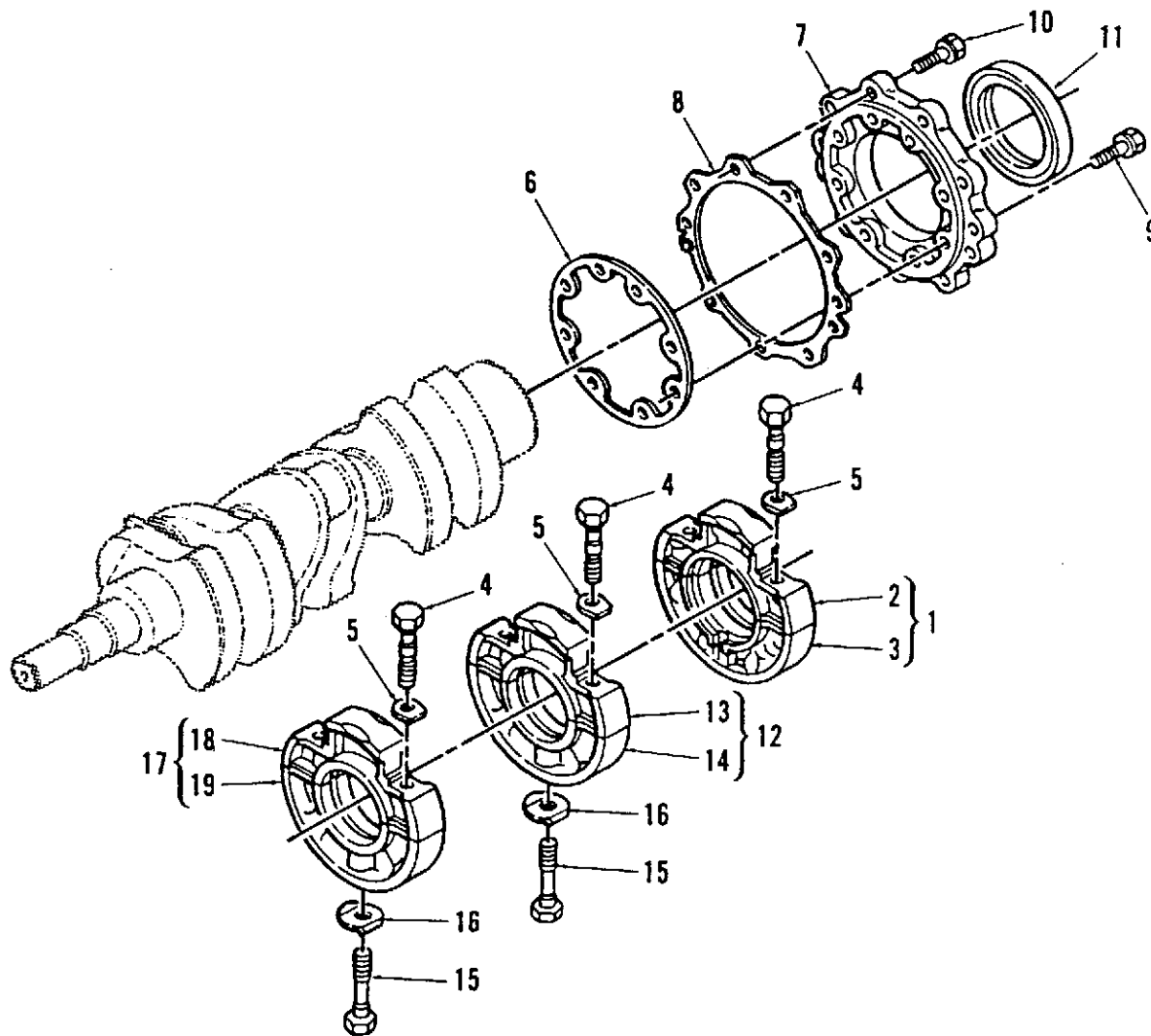
Crankshaft & Piston



Crankshaft and Piston

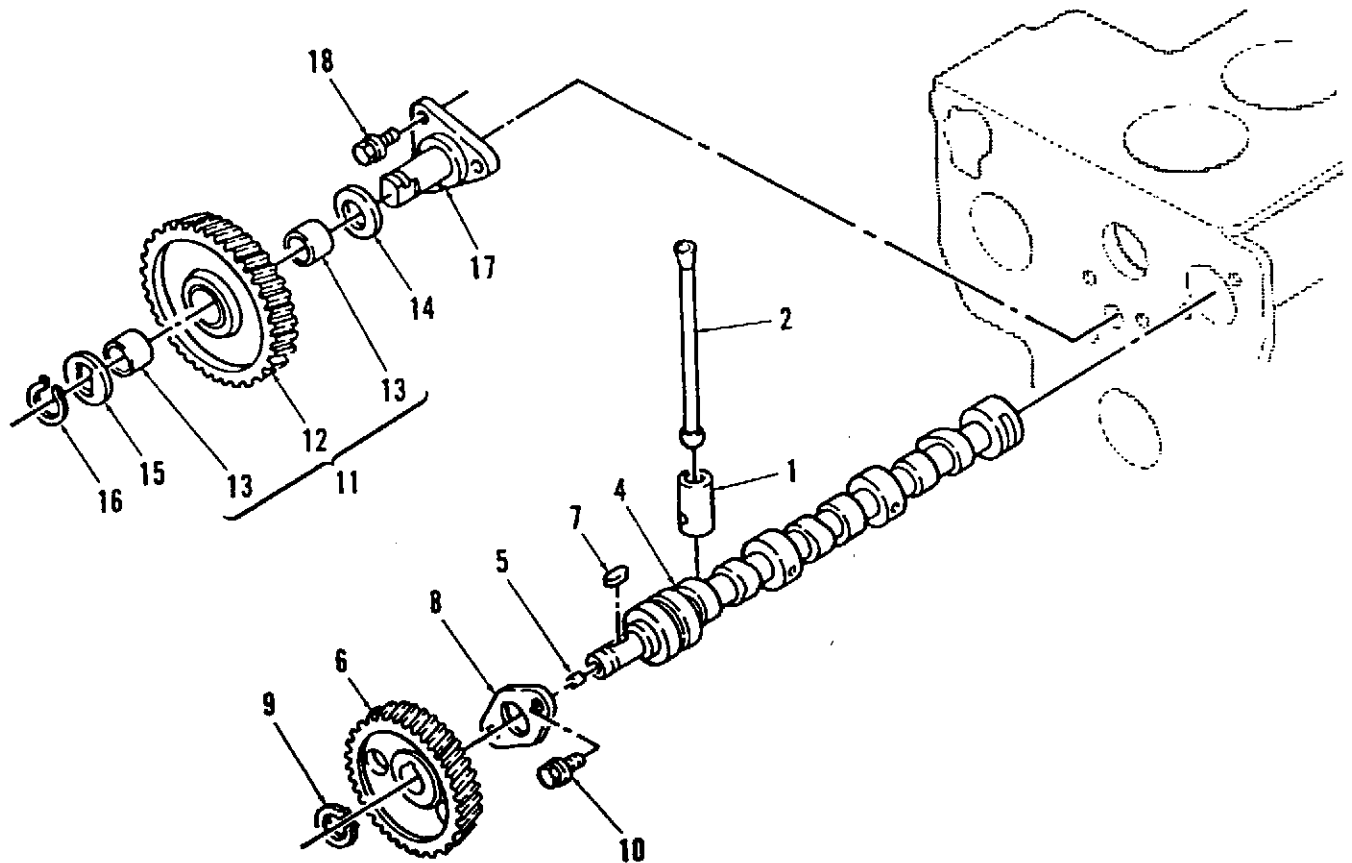
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2003	3	Piston	15	185-2087	1	Slinger, Oil
	185-2004	3	Standard	16	185-2250	1	Spacer, Sleeve
2			0.5mm Oversize	17	185-2348	1	O-Ring
			Ring Set	18			Bearing, Crankshaft
	185-2005	3	Standard		185-2020	1	Standard
	185-2006	3	0.5mm Oversize		185-2024	1	0.2mm Undersize
3	185-2015	3	Pin, Piston		185-2025	1	0.4mm Undersize
4	185-2016	6	Ring, Retaining	19			Bearing Set
5	185-2012	3	Rod, Connecting		185-2021	3	Standard
6	NFS		Rod		185-2026	3	0.2mm Undersize
7	185-2017	3	Bearing, Sleeve		185-2027	3	0.4mm Undersize
8	185-2018	6	Bolt, Hex - Rod Cap	20			Bearing, Thrust
9			Bearing Set		185-2022	2	Standard
	185-2013	3	Standard		185-2028	2	0.2mm Oversize
	185-2019	3	0.2mm Undersize		185-2029	2	0.4mm Oversize
	185-2014	3	0.4mm Undersize	21			Bearing, Thrust
10	185-2041	1	Crankshaft		185-2023	2	Standard
11	NFS		Crankshaft		185-2030	2	0.2mm Oversize
12	NFS		Plug		185-2031	2	0.4mm Oversize
13	185-2043	1	Gear	22	185-2033	1	Sleeve, Crankshaft
14	185-2353	1	Key				

Main Bearing Holders



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2035	1	Holder, Bearing - Main, Rear	11	185-2055	1	Seal, Oil - Crankshaft, Rear
2	NFS		Holder, Bearing - Half, Upper	12	185-2034	1	Holder, Bearing - Main, Center
3	NFS		Holder, Bearing - Half, Lower	13	NFS		Holder, Bearing - Half, Upper
4	185-2037	4	Bolt, Hex	14	NFS		Holder, Bearing - Half, Lower
5	185-2039	6	Retainer, Bolt/Nut	15	185-2038	2	Bolt, Hex
6	185-2036	1	Gasket	16	185-2040	2	Retainer, Bolt/Nut
7	185-2254	1	Cover Plate - Bearing	17	185-2213	1	Holder, Bearing - Main, Front
8	185-2127	1	Gasket	18	NFS		Holder, Bearing - Half, Upper
9	185-2390	9	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 20mm)	19	NFS		Holder, Bearing - Half, Lower
10	185-2391	8	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 25mm)				

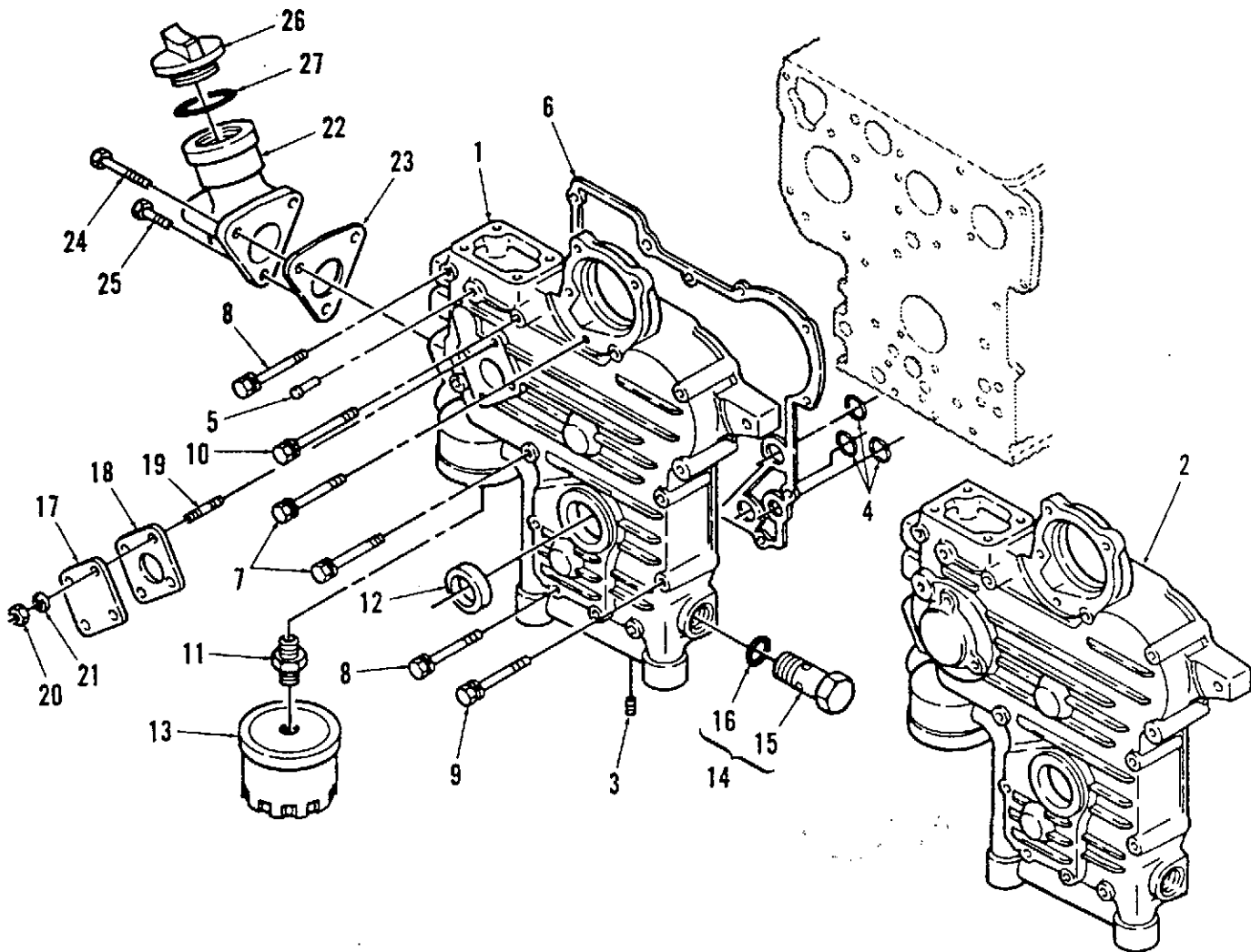
Camshaft



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2075	6	Tappet
2	185-2074	6	Rod, Push
4	185-2082	1	Camshaft
5	185-2190	2	Plug
6	185-2086	1	Gear
7	185-2353	1	Key
8	185-2084	1	Plate, Retaining
9	185-2369	1	Ring, Retaining
10	185-2387	2	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 14mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	185-2042	1	Gear
12	NFS		Gear
13	185-2048	2	Bushing, Sleeve
14	185-2046	1	Spacer
15	185-2047	1	Spacer
16	185-2045	1	Ring, Retaining
17	185-2044	1	Shaft
18	185-2388	3	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 16mm)

Gearcase & Oil Filter

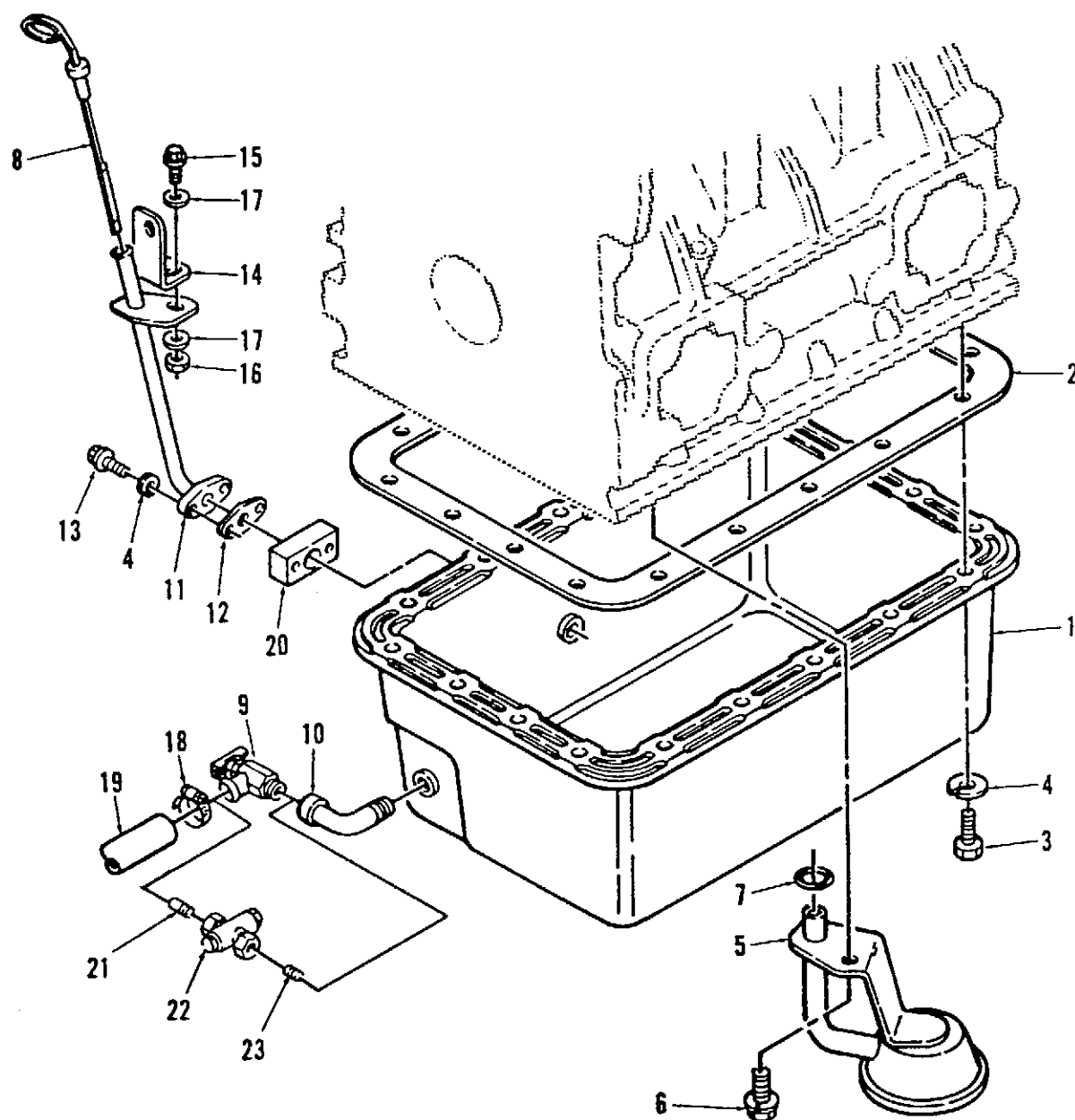


LS-1133

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	185-2051	1	Gearcase (Style I Governor)	14	185-2157	1	Valve, Relief - Pressure
2	185-2430	1	Gearcase (Style II Governor)	15	NFS		Valve
3	185-2189	2	Plug, Pipe - Socket Drive	16	185-2372	1	O-Ring
4	185-2374	3	O-Ring	17	185-2153	1	Plate, Cover (Style I Gov.)
5	185-2102	1	Pin, Straight	18	185-2104	1	Gasket (Style I Gov.)
6	185-2058	1	Gasket	19	185-2105	4	Stud
7	185-2395	7	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 60MM)	20	750-1004	4	Nut, Hex (M6 x 1)
8	185-2396	5	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 65MM)	21	185-2380	4	Washer, Lock - Spring (M6)
9	185-2397	1	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 70MM)	22	185-2296	1	Housing, Oil Fill
10	185-2398	1	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 75MM)	23	185-2309	1	Gasket
11	185-2124	1	Nipple, Pipe - Hex	24	185-2394	2	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 50MM)
12	185-2317	1	Seal, Oil - Crankshaft	25	185-2390	1	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 20MM)
13	185-2123	1	Filter, Oil	26	185-2093	1	Cap, Oil Fill
				27	185-2349	1	O-Ring

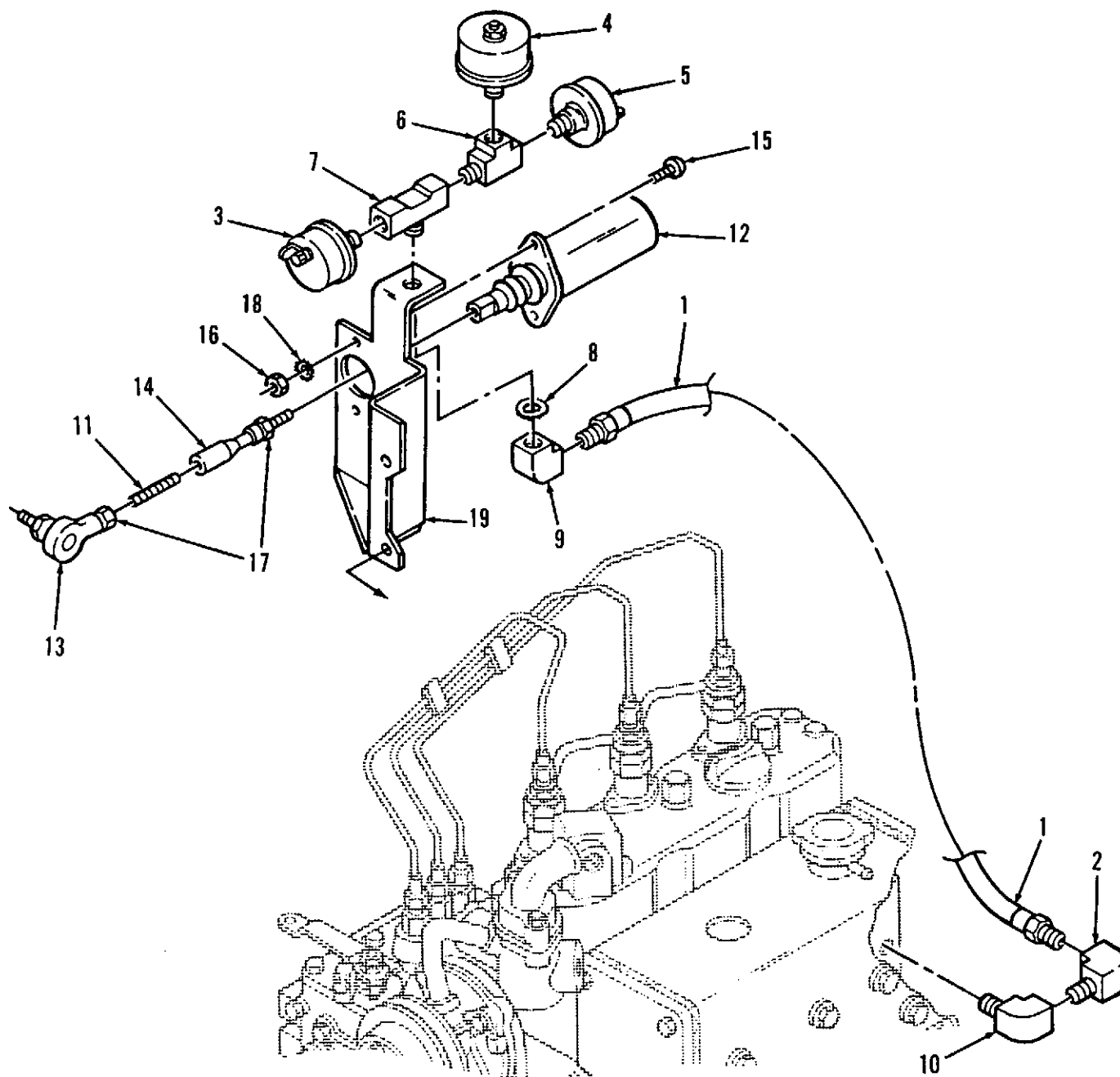
NOTE See introduction for governor style identification

Oil Pan & Dipstick



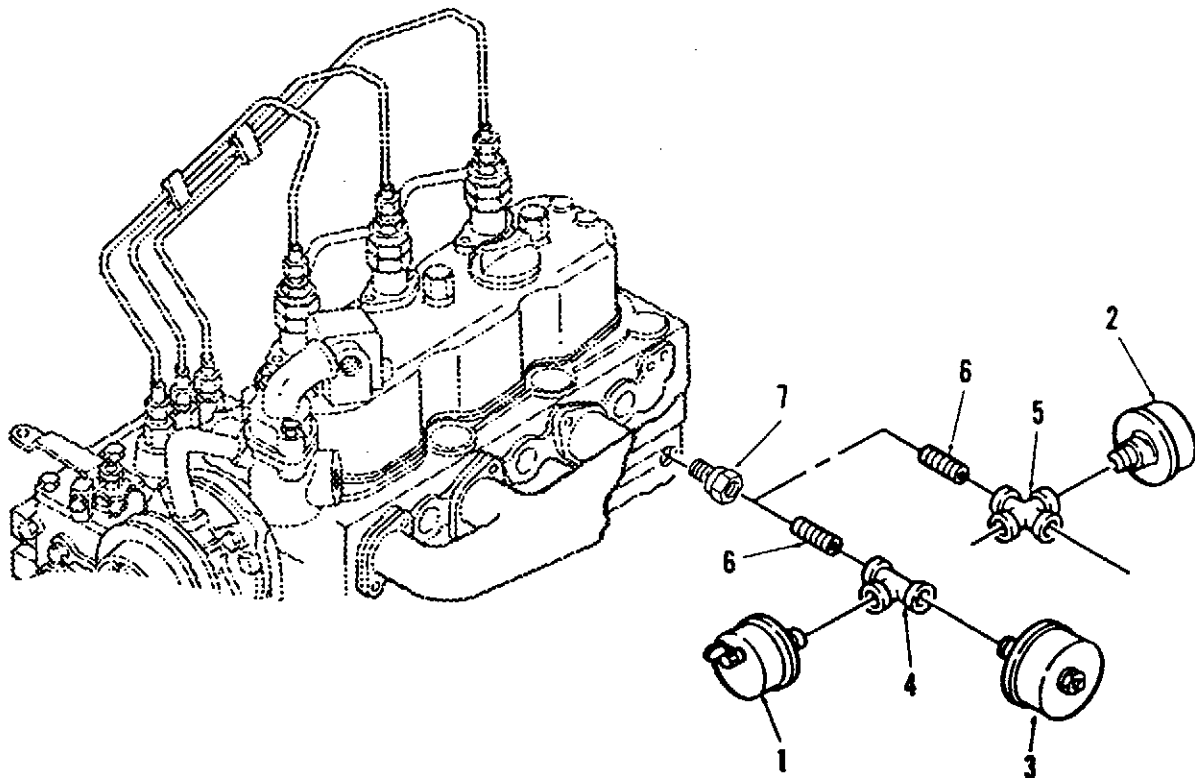
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2281	1	Pan, Oil	14	185-2211	1	Bracket, Oil Indicator Guide
2	185-2212	1	Gasket	15	185-2400	1	Screw, Cap - Hex Head with Lockwasher (M8 x 1.25 x 18mm)
3	185-2226	18	Bolt, Hex with Lockwasher	16	185-2366	1	Nut, Hex (M8 x 1.25)
4	185-2380	1	Washer, Lock - Spring (M6)	17	185-2377	3	Washer, Flat (M8)
5	185-2220	1	Cup, Pickup - Oil	18	503-0131	1	Clamp, Hose
6	185-2399	1	Screw, Cap - Hex Head with Lockwasher (M8 x 1.25 x 16mm)	19	503-0891	1	Hose, Rubber
7	185-2371	1	O-Ring	20	123-1628	1	Spacer
8	185-2209	1	Indicator, Oil Level	21	505-0135	1	Nipple, Half - Used Beginning November 1984
9	504-0092	1	Cock, Valve (used through November 1984)	22	504-0030	1	Valve, Cock - Used Beginning November 1984
10	505-0120	1	Elbow, Pipe - Street, 90°	23	505-0101	1	Nipple, Close - Used Beginning November 1984
11	185-2210	1	Guide, Oil Indicator				
12	185-2410	2	Gasket				
13	800-2036	2	Screw, Cap - Hex Head (M6 x 1 x 30mm)				

Oil Pressure Switches (Remote Start Sets)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0005	1	Line, Fuel - Flexible	8	856-0012	1	Washer, Lock - EIT (7/16")
2	505-0049	1	Elbow, Pipe - Street, 90°	9	502-0005	1	Elbow, Pipe - 90°, Brass
3	309-0159	1	Switch, Pressure (S6) (Power Latch)	10			Elbow, Pipe - Street, 90°
4			Sender, Pressure - Oil (E1) (Not Used On All Applications)		505-0049	1	Used through February 1984
	193-0244	1	Single Pole		505-1342	1	Used Beginning March 1984
	193-0404	1	Double Pole	11	520-0939	1	Stud, Solenoid - Stop
5			Switch, Pressure (S1) (Shutdown)	12	307-2546	1	Solenoid, Stop
	309-0064	1	Single Pole	13	150-1995	1	Ball, Joint
	309-0578	1	Double Pole	14	150-1733	1	Ball, Joint
6	502-0058	1	Tee, Pipe - Brass (1/8) (Not Used On All Applications)	15	813-0102	2	Screw, RHM (#10-32 x .62")
7	502-0057	1	Tee, Pipe - Brass (1/8)	16	870-0131	2	Nut (#10-32)
				17	115-0025	2	Nut, Tappet (1/4-28)
				18	856-0003	2	Washer, Lock - EIT (#10)
				19	150-1992	1	Bracket, Mounting - Stop Solenoid

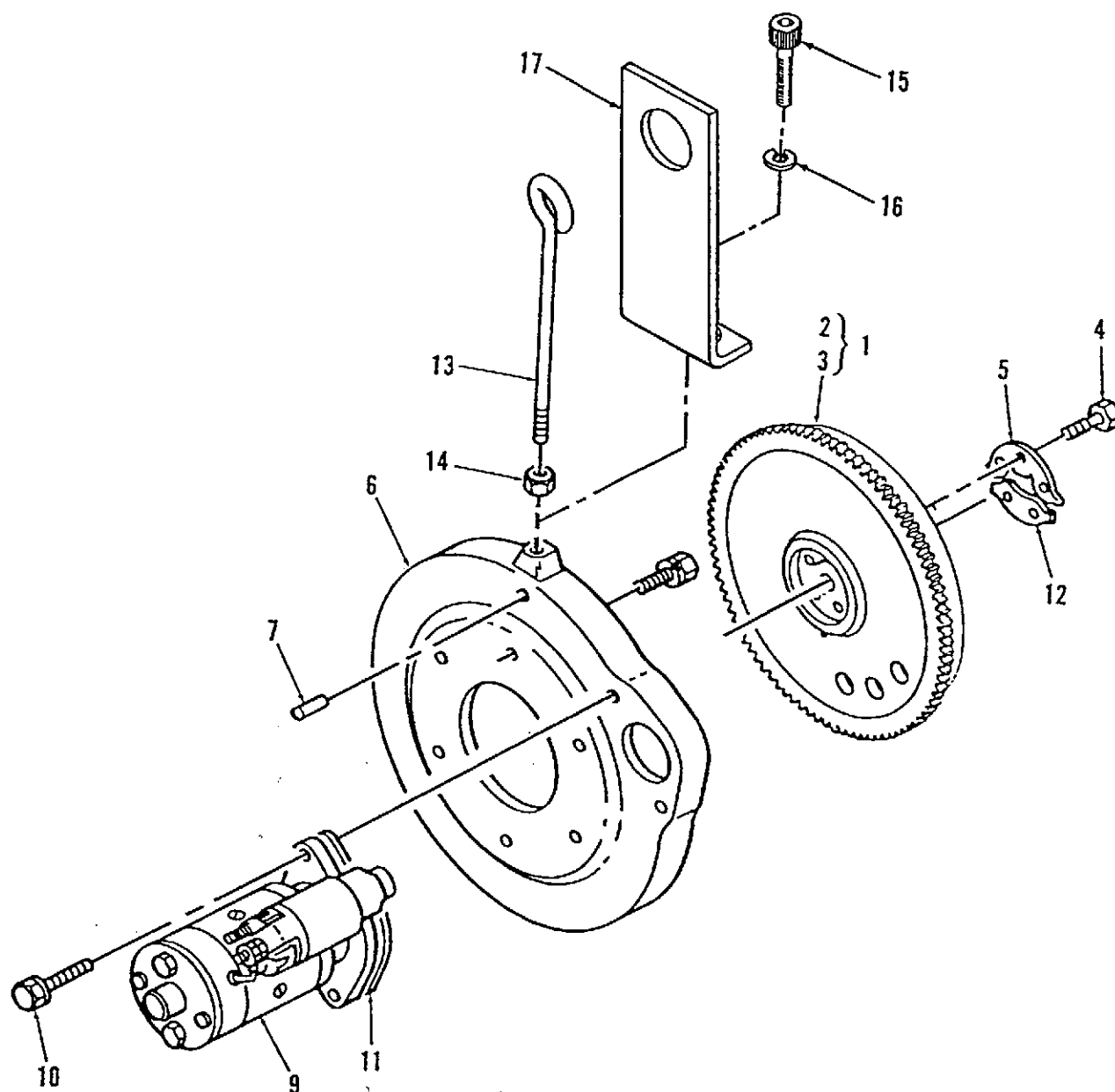
Oil Pressure Switches (Manual Start Sets)



LS-1136

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	309-0064	1	Switch, Pressure - Oil (S1) (Shutdown)	4	505-0059	1	Tee, Pipe - Iron
2	309-0159	1	Switch, Pressure - Oil (S6) (Power Latch)	5	505-0763	1	Cross, Pipe - Iron
3	193-0244	1	Sender, Pressure - Oil (E1)	6	505-0098	1	Nipple, Pipe - Close
				7	502-0917	1	Adapter, Pipe - Brass (Used Beginning March 1984)

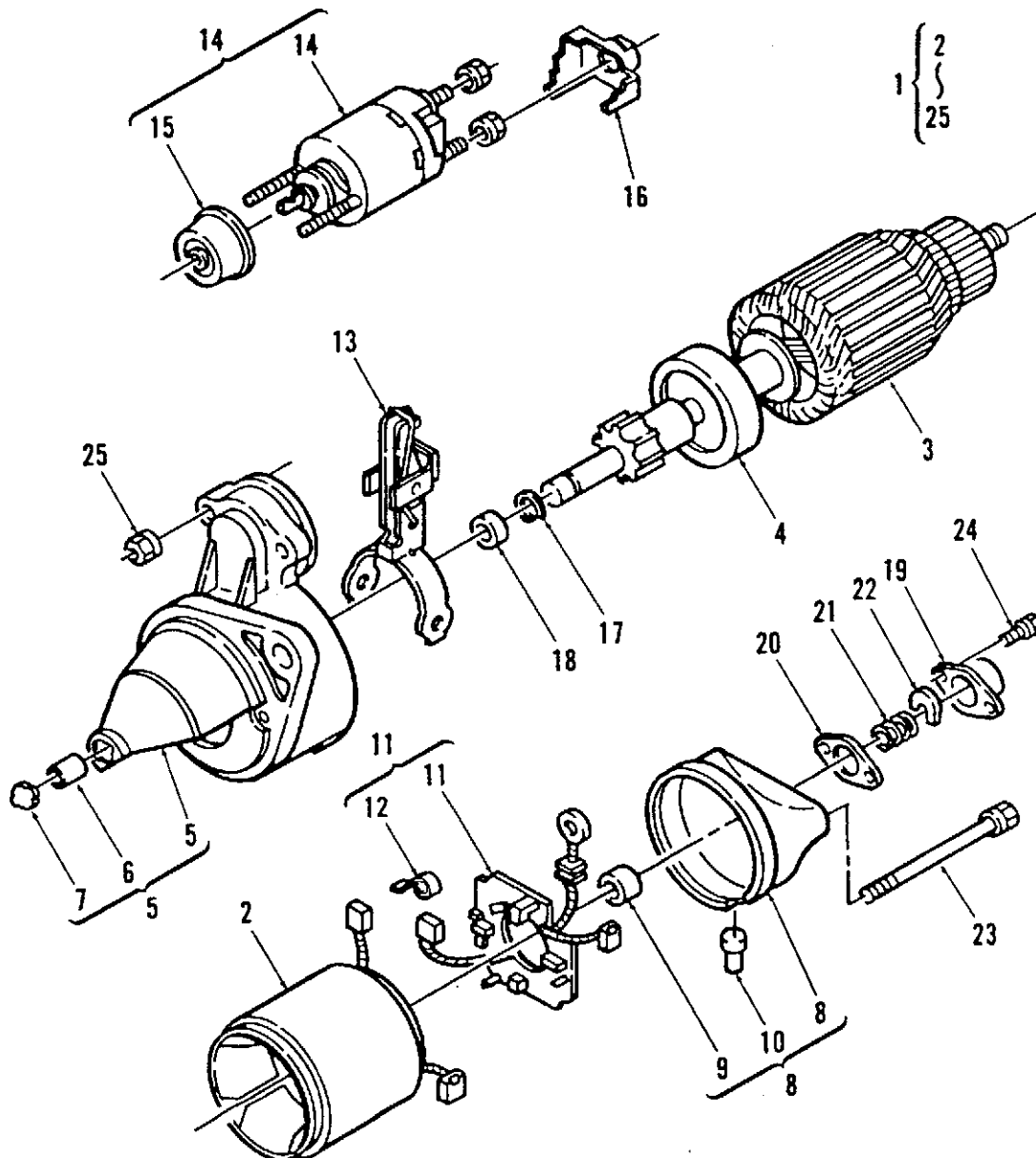
Flywheel & Starter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2308	1	Flywheel (Includes Gear Ring)
2	NFS		Flywheel
3	185-2170	1	Gear, Ring
4	185-2301	5	Bolt, Hex
5	185-2218	1	Plate, Locking - Bolt/Nut
6	185-2417	1	Adapter, Generator
7	775-0072	1	Pin, Straight
8	185-2178	8	Bolt, Hex with Lockwasher
9	185-2116	1	Starter (12VDC) (See Separate Figure for Replacement Parts)
10	185-2404	2	Screw, Cap - Hex Head with Lockwasher (M8 x 1.25 x 28mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	185-2314	1	Gasket
12	185-2219	1	Plate, Locking - Bolt/Nut
13	403-2214	1	Bolt, Eye (Used Through Spec A)
14	862-0003	1	Nut, Hex (3/8-16) (Used Through Spec A)
15	802-0072	1	Screw, Socket Head (3/8-16 x 1")
16	850-0050	1	Washer, Lock - Spring (3/8")
17	403-2634	1	Bracket, Lifting (Begin Spec 8)

Starter - Exploded View

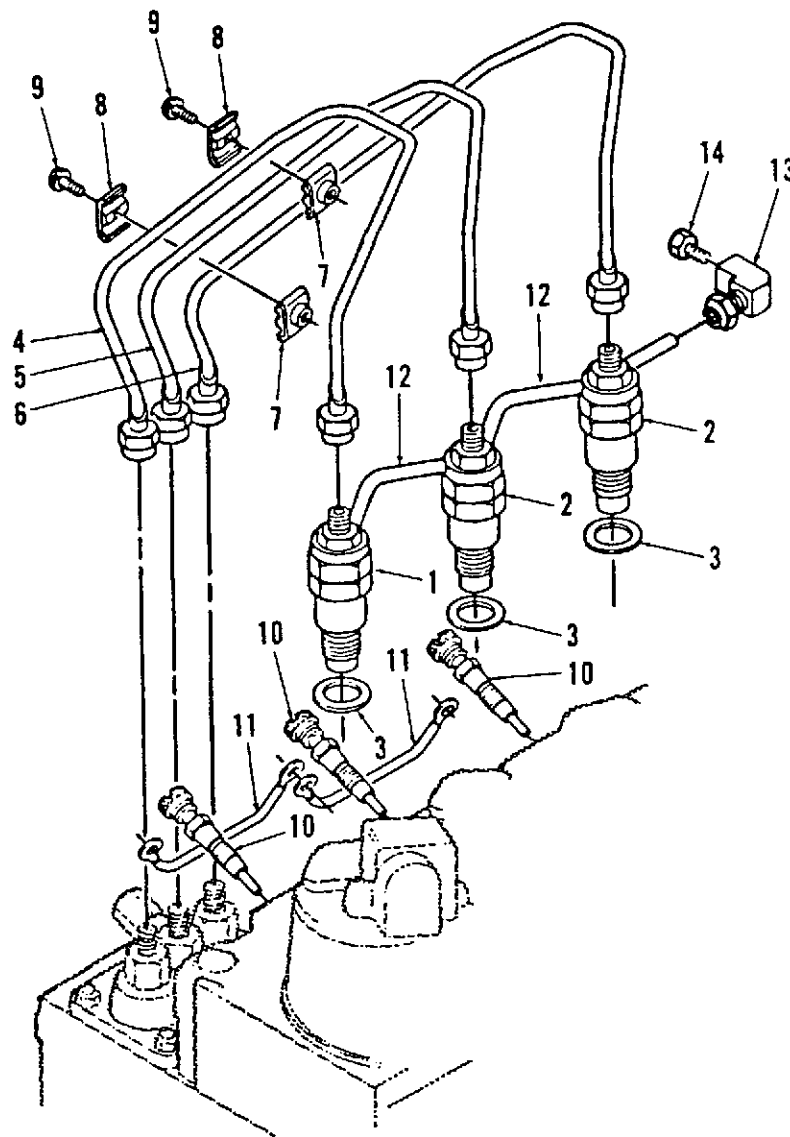


ES-1474

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	185-2116	1	Starter (12VDC) (Complete)
2	185-2322	1	Coil, Field
3	185-2321	1	Armature
4	185-2319	1	Clutch
5	185-2118	1	Housing, Drive End
6	185-2295	1	Bushing, Sleeve
7	185-2335	1	Cover
8	185-2326	1	Housing, Brush End
9	185-2327	1	Bushing, Sleeve
10	185-2119	1	Cover
11	185-2329	1	Brush Rig
12	185-2330	4	Spring
13	185-2320	1	Lever, Drive

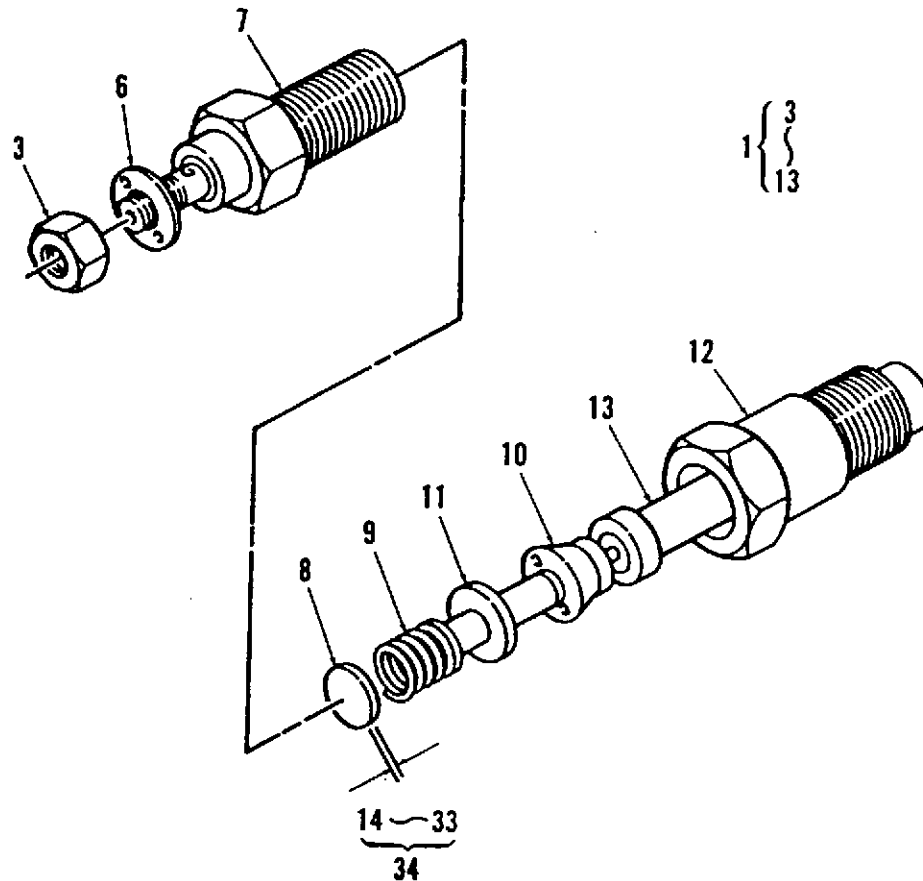
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
14	185-2117	1	Solenoid
15	185-2331	1	Cover, Plunger
16	185-2323	1	Insulator, Terminal
17	185-2111	1	Ring, Retaining
18	185-2195	1	Spacer, Sleeve
19	185-2332	1	Housing
20	185-2333	1	Gasket
21	185-2325	1	Spring
22	185-2324	1	Clip, Retaining
23	185-2328	2	Bolt, Hex
24	185-2383	2	Screw, Machine - Pan Head with Lockwasher (M4 x .5 x 14MM)
25	185-2334	2	Nut, Hex

Glow Plug & Injection Nozzles



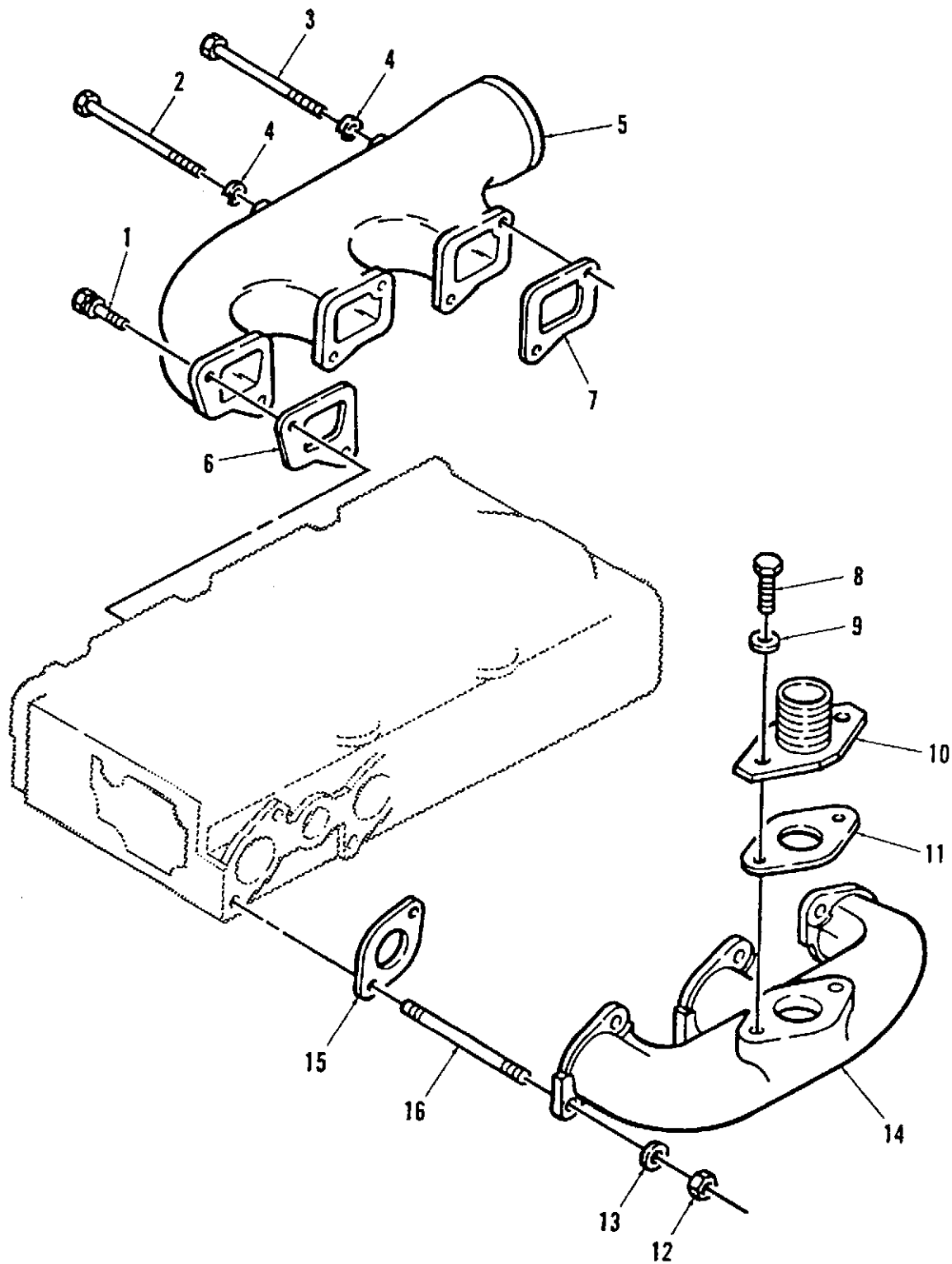
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2436	1	Nozzle, Injection - Fuel (See Separate Page for Components)	8	185-2345	2	Clamp
2	185-2436	2	Nozzle, Injection - Fuel (See Separate Page for Components)	9	185-2385	2	Screw, Machine - Pan Head with Lockwasher (M5 x .8 x 20mm)
3	185-2294	3	Gasket	10	185-2289	3	Plug, Glow (12 VDC)
4	185-2159	1	Line, Fuel - Injection	11	185-2172	2	Lead, Electrical
5	185-2160	1	Line, Fuel - Injection	12	185-2437	1	Tube, Fuel - Overflow
6	185-2224	1	Line, Fuel - Injection	13	502-0886	1	Elbow, Tube to Pipe, 90°
7	185-2344	2	Clamp	14	502-0175	1	Adapter, Pipe - Hex (Used Beginning November 1984)

Injection Nozzle - Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2436	1	Nozzle, Injection (Complete)	20	185-2138	1	Shim (1.30mm)
3	185-2107	1	Nut, Hex	21	185-2139	1	Shim (1.35mm)
6	185-2109	1	Washer, Flat	22	185-2140	1	Shim (1.40mm)
7	NFS		Screw, Adjusting - Pressure	23	185-2141	1	Shim (1.45mm)
8	185-2099	1	Shim	24	185-2142	1	Shim (1.50mm)
9	185-2098	1	Spring	25	185-2143	1	Shim (1.55mm)
10	185-2101	1	Spacer	26	185-2144	1	Shim (1.60mm)
11	185-2097	1	Spindle	27	185-2145	1	Shim (1.65mm)
12	185-2100	1	Holder, Nozzle	28	185-2146	1	Shim (1.70mm)
13	185-2459	1	Nozzle, Injection - Fuel	29	185-2147	1	Shim (1.75mm)
14	185-2132	1	Shim (1.00mm)	30	185-2148	1	Shim (1.80mm)
15	185-2133	1	Shim (1.05mm)	31	185-2149	1	Shim (1.85mm)
16	185-2134	1	Shim (1.10mm)	32	185-2150	1	Shim (1.90mm)
17	185-2135	1	Shim (1.15mm)	33	185-2151	1	Shim (1.95mm)
18	185-2136	1	Shim (1.20mm)	34	185-2444	1	Shim Pkg
19	185-2137	1	Shim (1.25mm)				

Inlet/Exhaust Manifold

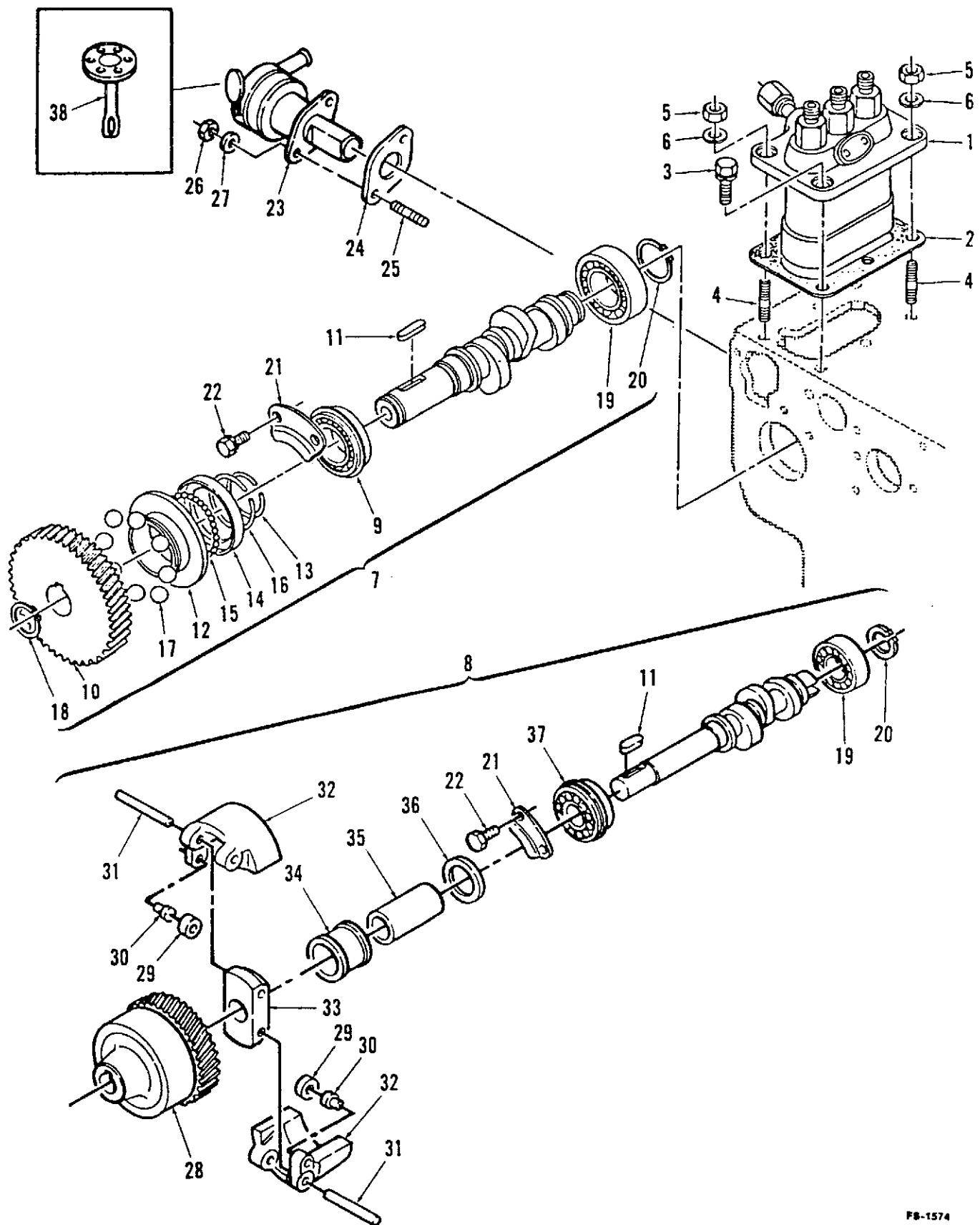


EXS-1115

Inlet/Exhaust Manifold

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2390	4	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 20mm)	9	526-2120	2	Washer, Flat (M10)
2	185-2253	1	Bolt, Hex	10	154-2485	1	Adapter, Exhaust
3	185-2225	1	Bolt, Hex	11	185-2203	1	Gasket, Exhaust Manifold
4	850-2006	2	Washer, Lock - Spring (M6)	12	860-2007	6	Nut, Hex (M6)
5	185-2307	1	Manifold, Inlet	13	850-2006	6	Washer, Lock - Spring (M6)
6	185-2129	1	Gasket	14	185-2214	1	Manifold, Exhaust
7	185-2130	2	Gasket	15	185-2131	3	Gasket
8	815-0585	2	Screw, Cap - Hex Head (M10 x 1.25 x 20mm)	16	185-2227	6	Stud

Fuel System - Injection Pump & Driveshaft

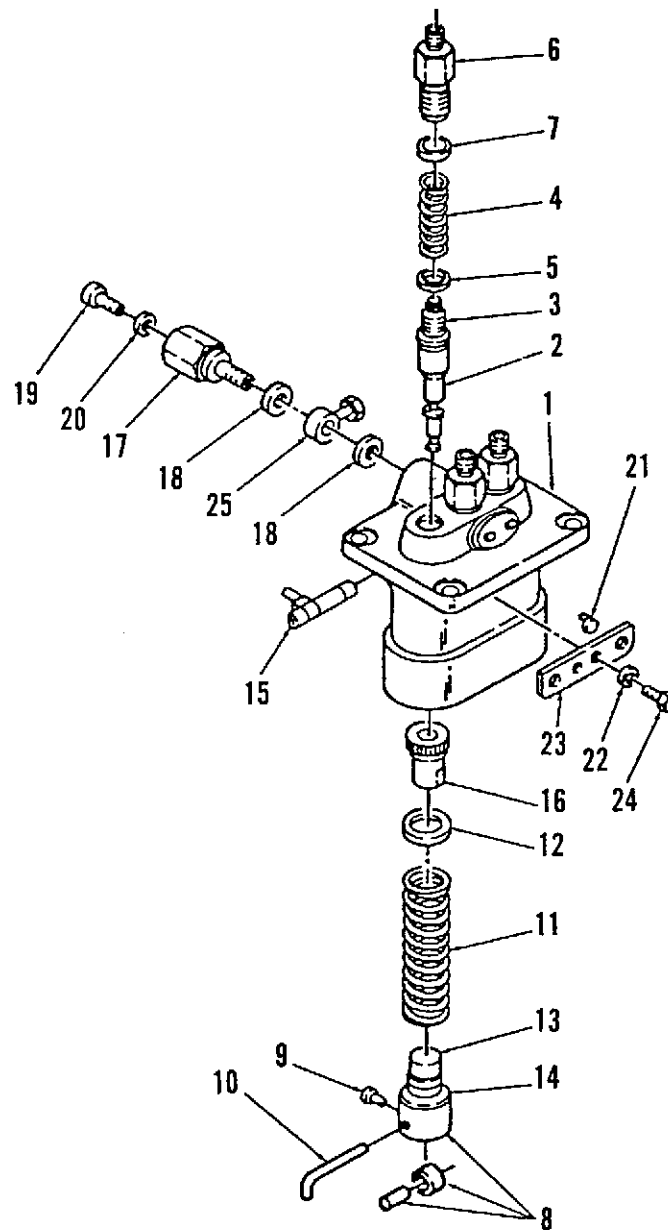


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Fuel System - Injection Pump and Driveshaft

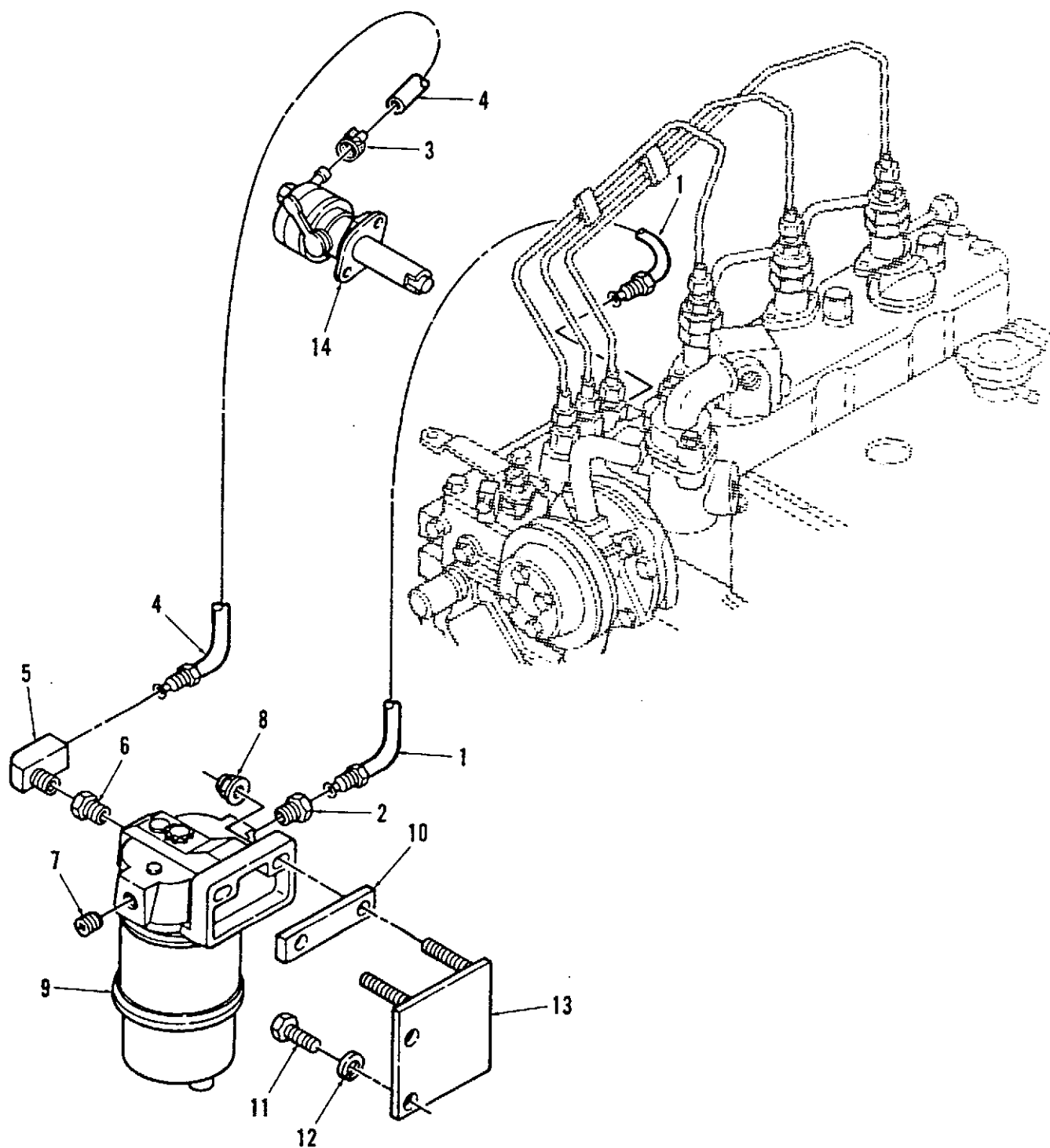
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2221	1	Pump, Injection - Fuel (See Separate Page for Components)	20	185-2370	1	Ring, Retaining
2	185-2223	4	Shim (0.15mm)	21	185-2085	1	Plate, Retaining
3	185-2402	2	Screw, Cap - Hex Head with Lockwasher (M8 x 1.25 x 22mm)	22	185-2386	2	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 12mm)
4	185-2106	2	Stud (M8 x 1.25)	23	185-2302	1	Pump, Fuel (also shown in Fuel System - Filter & Pump)
5	185-2367	2	Nut, Hex (M8 x 1.25)	24	185-2125	1	Gasket
6	185-2381	2	Washer, Lock - Spring (M8)	25	185-2359	2	Stud
7	185-2083	1	Shaft Assembly, Fuel (Style I Governor)	26	750-1004	2	Nut, Hex (M6 x 1)
8	185-2446	1	Shaft Assembly, Fuel (Style II Governor)	27	185-2380	2	Washer, Lock - Spring (M6)
9	185-2316	1	Bearing, Ball	28	185-2448	1	Gear
10	185-2158	1	Gear	29	185-2443	2	Roller
11	185-2354	1	Key	30	NFS	2	Pin, Straight, Headed
12	185-2162	1	Retainer, Ball - Governor	31	185-2452	2	Pin, Straight, Headless
13	185-2163	1	Ring, Retaining	32	185-2454	2	Weight, Governor (Includes Pivot Pins)
14	185-2164	1	Race, Ball - Governor	33	185-2453	1	Holder, Weight
15	185-2357	30	Ball	34	185-2449	1	Sleeve
16	185-2165	1	Ring, Retaining	35	185-2451	1	Collar
17	185-2358	7	Ball	36	185-2450	1	Washer, Thrust
18	185-2369	1	Ring, Retaining	37	185-2447	1	Bearing, Ball
19	185-2315	1	Bearing, Ball	38	185-2222	1	Diaphragm, Fuel Pump

Injection Pump - Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	NFS		Housing, Pump	14	NFS		Shim
2	NFS		Plunger, Delivery Valve	15	NFS		Shaft, Fuel Control
3	NFS		Valve, Delivery	16	NFS		Sleeve, Fuel Control
4	NFS		Spring	17	NFS		Vent, Air
5	185-2196	3	Gasket	18	185-2197	2	O-Ring
6	NFS		Connector, Fuel Line	19	NFS		Screw, Cap - Hex Head (Air Vent)
7	185-2198	3	O-Ring	20	185-2318	1	O-Ring
8	NFS		Tappet (Includes Roller and Shaft)	21	NFS		Collar
9	NFS		Pin, Shouldered	22	NFS		Washer, Lock - Spring
10	NFS		Pin, Roller Shaft	23	NFS		Plate, Adjusting
11	NFS		Spring	24	NFS		Screw, Cap - Hex Head
12	NFS		Seat, Spring - Upper	25	185-2415	1	Adapter, Line - Fuel
13	NFS		Seat, Spring - Lower				

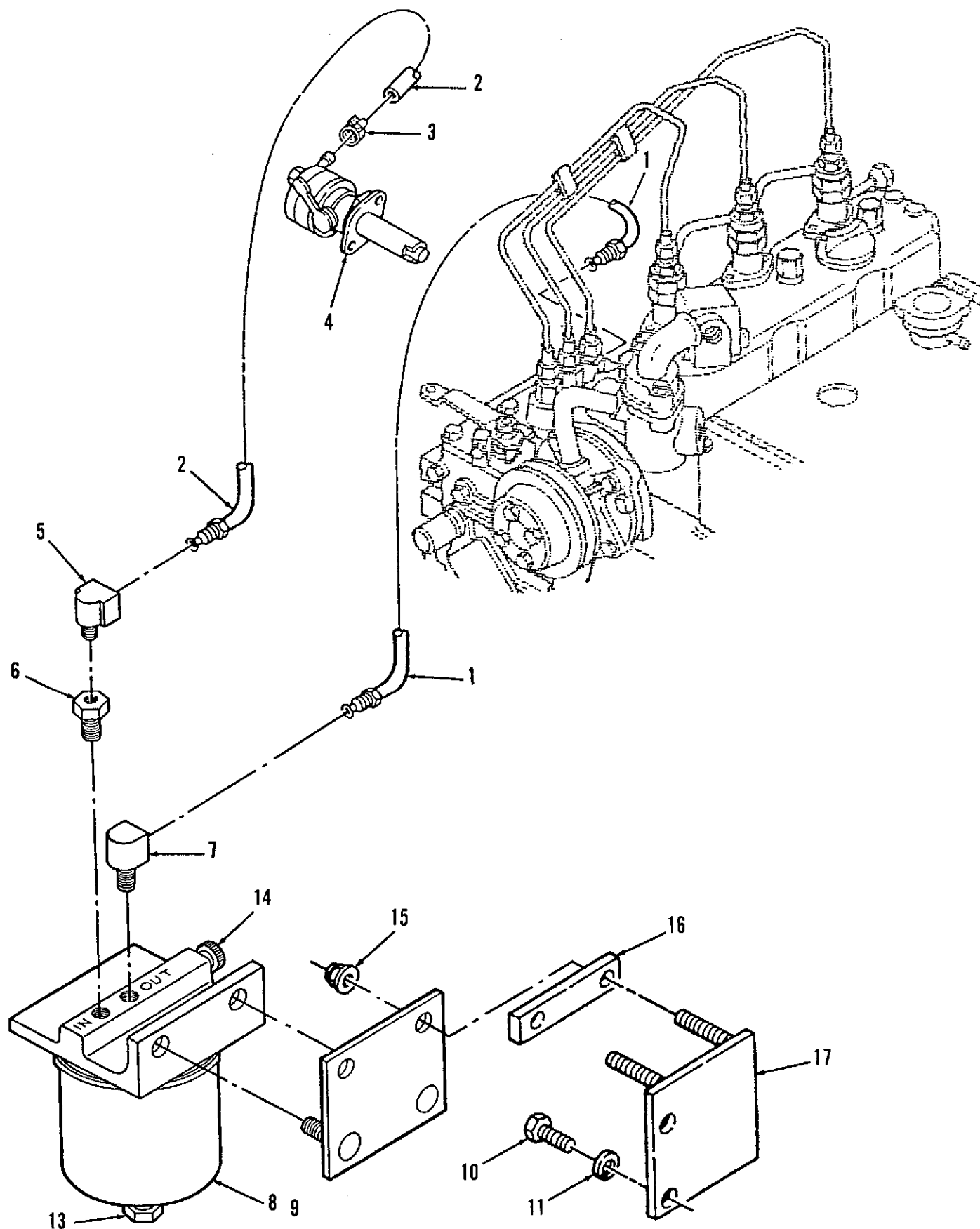
Fuel System - With Mechanical Pump and Filter (Spec A)



Fuel System - With Mechanical Pump and Filter (Spec A)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0005	1	Line, Fuel - Flexible	10	149-1922	1	Spacer - Fuel Filter Mounting
2	502-0033	1	Adapter, Pipe - Hex	11	815-0600	2	Screw, Cap - Hex Head (M10 x 1.25 x 25mm)
3	503-0685	1	Clamp, Hose	12	850-2010	2	Washer, Lock - Spring (M10)
4	501-0487	1	Line, Fuel - Flexible	13	149-1920	1	Plate, Mounting - Fuel Filter
5	502-0020	1	Pipe, Elbow - Street, Brass, 90°	14	185-2302	1	Pump, Fuel (Also Shown in Fuel System - Injection Pump
6	502-0029	1	Bushing Reducer - Hex				
7	505-0180	1	Plug, Pipe - Square Socket Drive				
8	870-0257	2	Nut, Self-locking - Hex Washer Head (5/16-18)				
9			Filter/Separator, Fuel - Pressure Type (See Separate Group for Components)				
	149-1908-04	1	Without Electric Fuel Heater and Bowl Heater				
	149-1908-06	1	With Electric Fuel Heater and Bowl Heater				

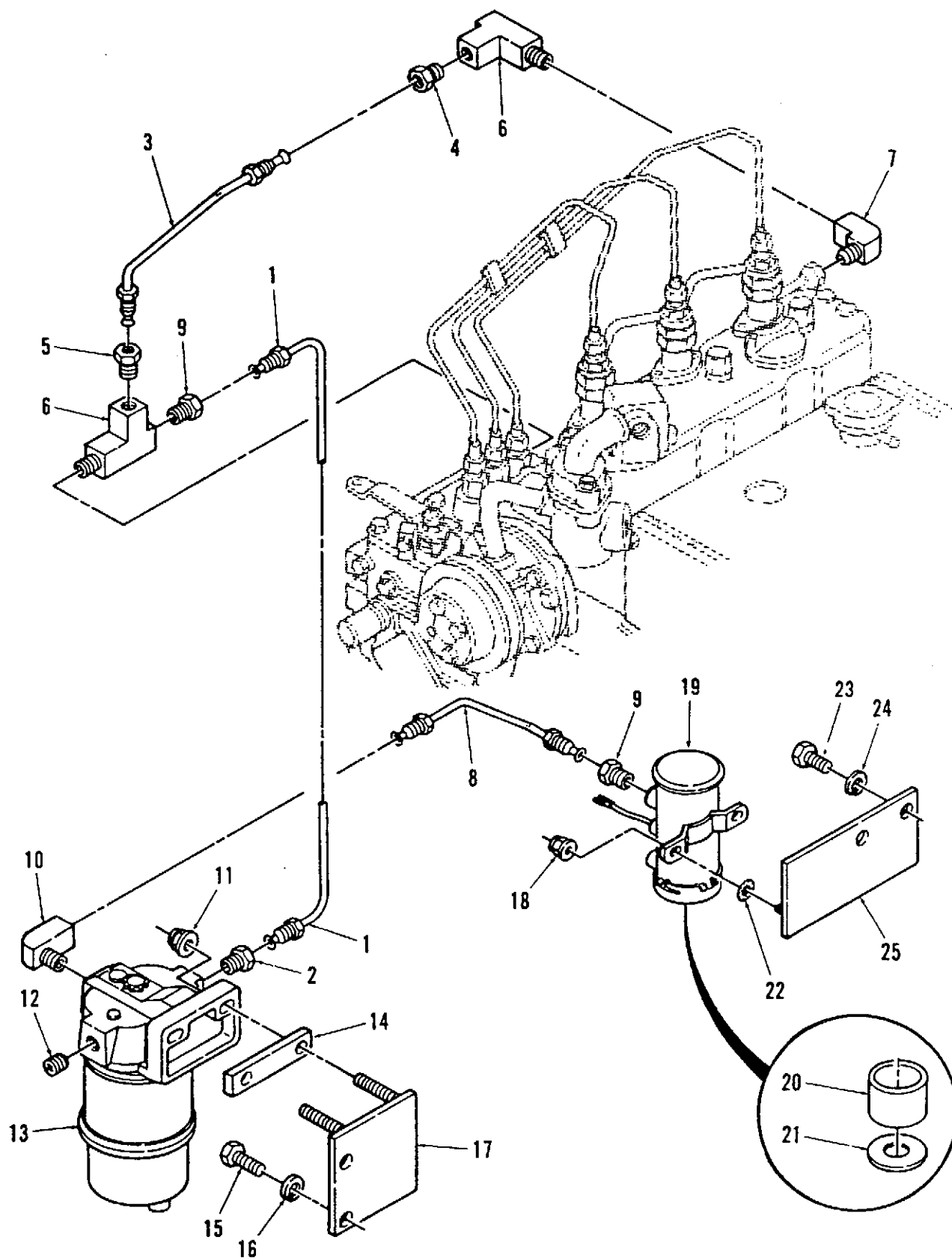
Fuel System - With Mechanical Pump and Filter
(Begin Spec "B")



Fuel System - With Mechanical Pump and Filter (Begin Spec "B")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0005	1	Line, Fuel - Flexible	11	850-2010	2	Washer, Lock - Spring (M10)
2	501-0487	1	Line, Fuel - Flexible	12	149-2108	1	Bracket, Mounting - Fuel Filter
3	503-0685	1	Clamp, Hose	13	502-0028	1	Plug, Drain
4	185-2302	1	Pump, Fuel	14	149-2234	1	Vent, Air
5	502-0020	1	Elbow, Pipe - Street, 90°	15	870-0257	2	Nut, Self-locking - Hex Washer Head (5/16 x 18)
6	502-0029	1	Bushing, Reducer	16	149-1922	1	Spacer, Mounting - Fuel Filter
7	502-0041	1	Connector, Male - Inverted, 90°	17	149-1920	1	Plate, Mounting - Fuel Filter
8	149-2100	1	Filter Assembly, Fuel				
9	149-2106	1	Element, Filter - Fuel				
10	815-0600	2	Screw, Cap - Hex Head (M10 x 1.25 x 25mm)				

Fuel System - With Electrical Pump and Filter (Spec A)

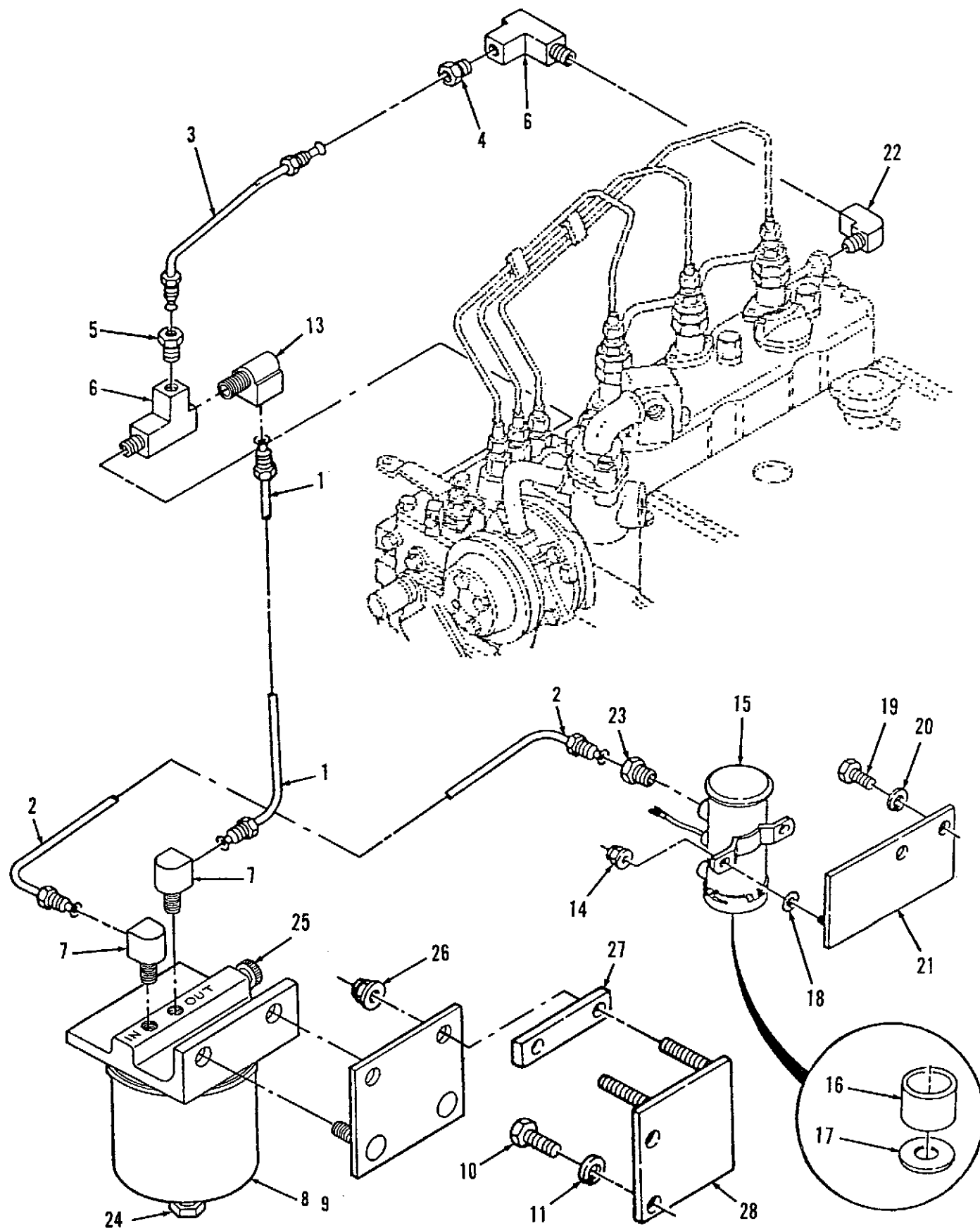


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Fuel System - With Electrical Pump and Filter (Spec A)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-1945	1	Line, Fuel	14	149-1922	1	Spacer, Filter - Fuel
2	502-0033	1	Adapter, Pipe - Hex	15	815-0600	2	Screw, Cap - Hex Head (M10 x 1.25 x 25mm)
3	149-1944	1	Line, Fuel	16	850-2010	2	Washer, Lock - Spring (M10)
4	502-0281	1	Adapter, Pipe - Hex with Restrictor Plug	17	149-1920	1	Plate, Mounting - Fuel Filter
5	502-0097	1	Adapter, Pipe - Hex	18	870-0212	2	Nut, Self-locking - Hex Washer Head (1/4-20)
6	502-0058	2	Pipe, Tee	19	149-1828	1	Pump, Fuel - Electric (12 VDC)
7	502-0886	1	Elbow, Tube to Pipe - 90°	20	149-1445	1	Filter, Pump - Fuel
8	149-1932	1	Line, Fuel	21	149-1446	1	Gasket, Cover - Fuel Pump
9	502-0003	2	Adapter, Pipe - Hex	22	856-0006	2	Washer, Lock - EIT (1/4)
10	502-0041	1	Pipe, Elbow - Street, 90°, Brass	23	815-0586	2	Screw, Cap - Hex Head (M10 x 1.25 x 16mm)
11	870-0257	2	Nut, Self-Locking - Hex Washer Head (5/16-18)	24	850-2010	2	Washer, Lock - Spring (M10)
12	505-0180	1	Plug, Pipe - Square Socket Drive	25	149-1921	1	Plate, Mounting - Fuel Pump
13			Filter/Separator, Fuel - Pressure Type (See Separate Group for Components)				
	149-1908-04	1	Without Electric Fuel Heater and Bowl Heater				
	149-1908-06	1	With Electric Fuel Heater and Bowl Heater				

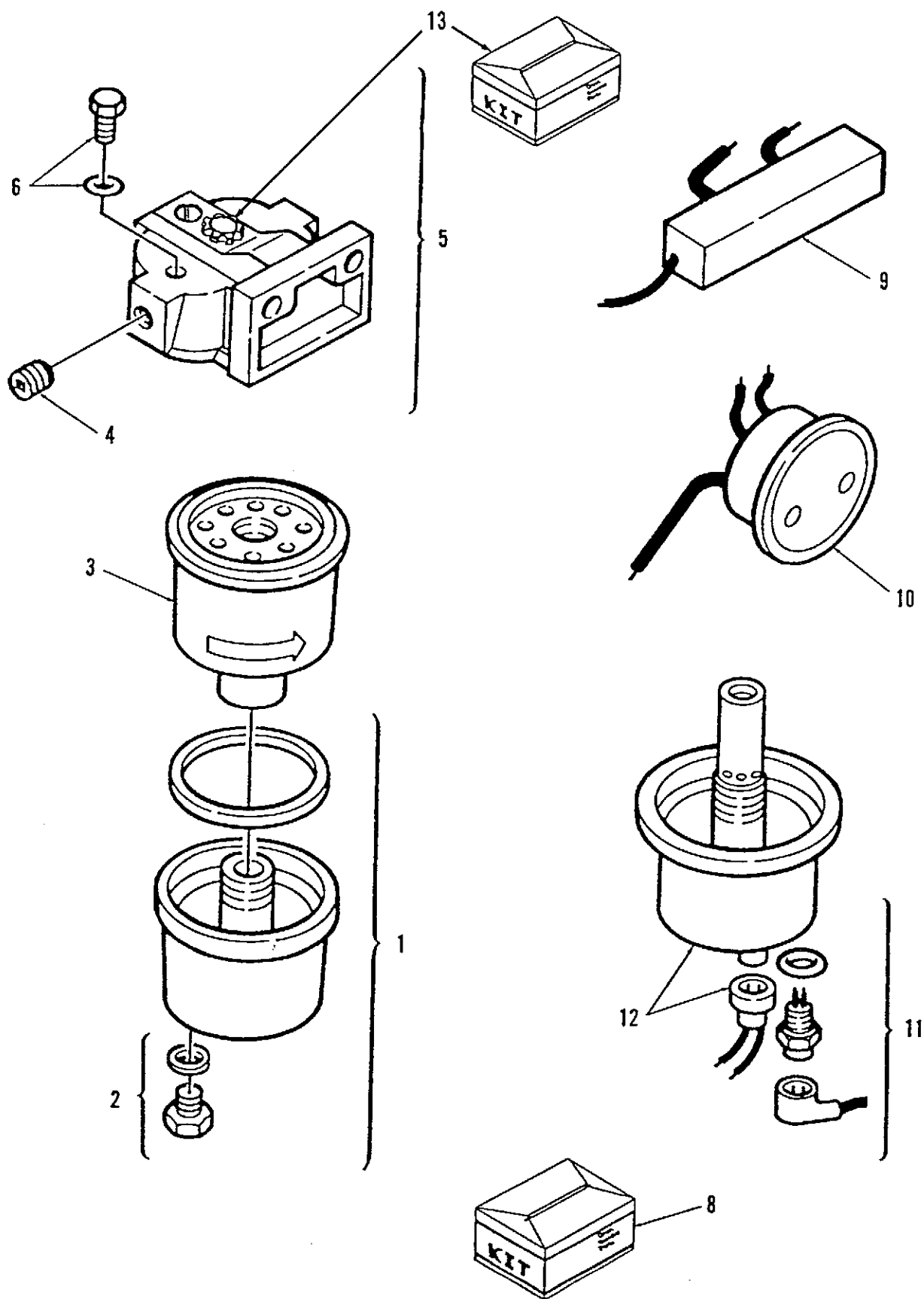
Fuel System - With Electrical Pump and Filter (Begin Spec "B")



**Fuel System - With Electrical Pump and Filter
(Begin Spec "B")**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-2102	1	Line, Fuel - Flexible	15	149-1828	1	Pump, Fuel - Electric (12 VDC)
2	149-2101	1	Line, Fuel - Flexible	16	149-1445	1	Filter, Pump - Fuel
3	149-1944	1	Line, Fuel - Flexible	17	149-1446	1	Gasket, Cover - Fuel Pump
4	502-0281	1	Adapter, Pipe - Hex with Restrictor Plug	18	856-0006	2	Washer, Lock - EIT (1/4)
5	502-0097	1	Adapter, Pipe - Hex	19	815-0586	2	Screw, Cap - Hex Head (M10 x 1.25 x 16mm)
6	502-0058	2	Pipe, Tee	20	850-2010	2	Washer, Lock - Spring (M10)
7	502-0041	2	Connector, Male - Inverted, 90°	21	149-1921	1	Plate, Mounting - Fuel Pump
8	149-2100	1	Filter Assembly, Fuel	22	502-0886	1	Elbow, Tube to Pipe - 90°
9	149-2106	1	Element, Filter - Fuel	23	502-0003	1	Adapter, Pipe - Hex
10	815-0600	2	Screw, Cap - Hex Head (M10 x 1.25 x 25mm)	24	502-0028	1	Plug, Drain
11	850-2010	2	Washer, Lock - Spring (M10)	25	149-2234	1	Vent, Air
12	149-2108	1	Bracket, Mounting - Fuel Filter	26	870-0257	2	Nut, Self-locking - Hex Washer Head (5/16-18)
13	502-0002	1	Elbow, Male - Inverted	27	149-1922	1	Spacer, Mounting - Fuel Filter
14	870-0212	2	Nut, Self-locking - Hex Washer Head (1/4-20)	28	149-1920	1	Plate, Mounting - Fuel Filter

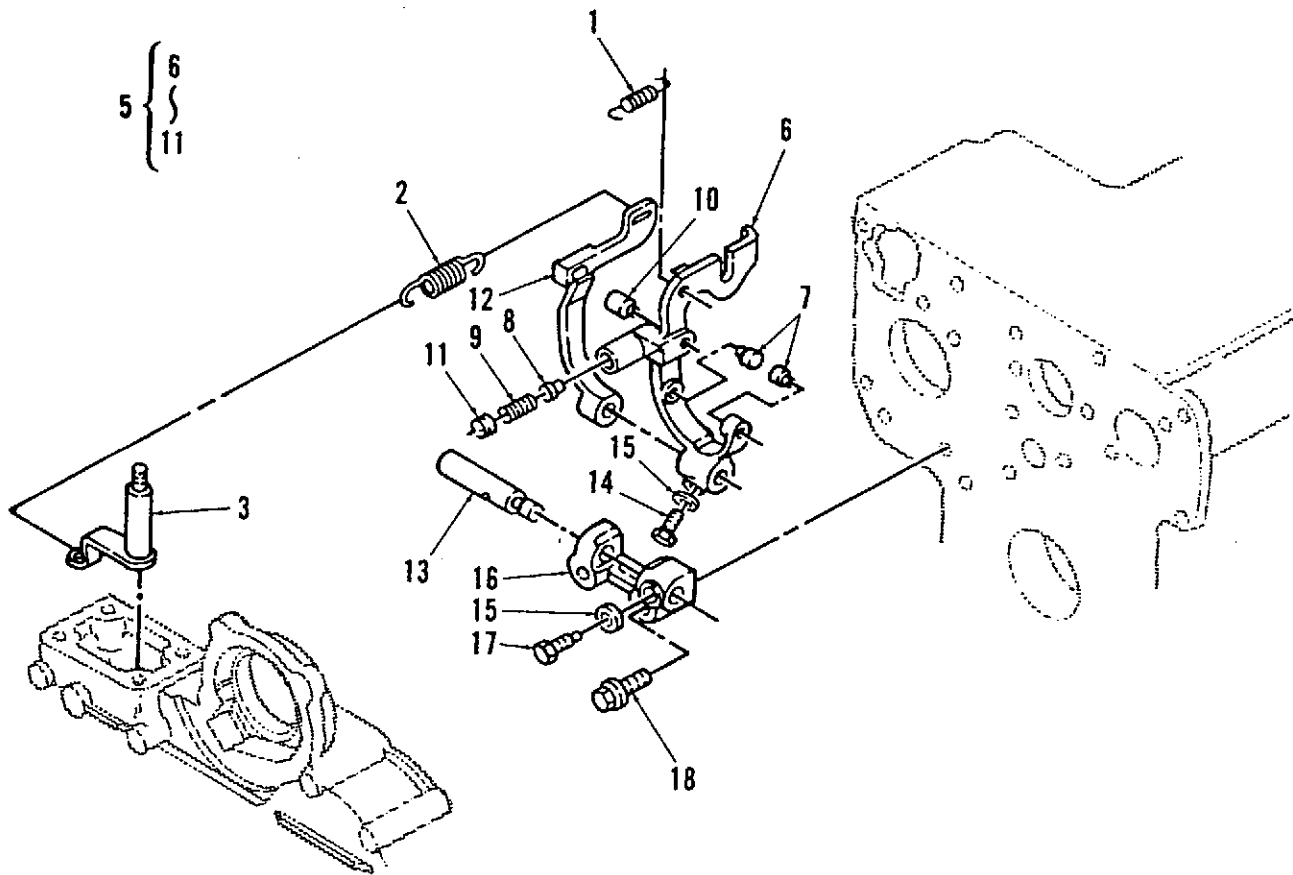
Fuel/Water Separator



Fuel/Water Separator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Filter/Separator, Fuel Complete (Pressure Applications)	8	149-2045	1	Seal Kit, Separator - Fuel/Water (Includes all O-Ring Seals and Plunger)
	149-1908-04	1	Without Fuel and Bowl Heaters	9	149-1971	1	Alarm/Tight - Water Sensor (Rectangular)
	149-1908-06	1	With Fuel and Bowl Heaters	10			Alarm/Tight - Water Sensor (Round)
1	149-2046	1	Bowl, Metal - Replacement (Includes Seals, Plugs, and Drain Assembly)		149-1972	1	12 Volt DC
2	149-1953	1	Drain Assembly (Includes Knob and Seal)		149-2048	1	24 Volt DC
3	149-1914-04	1	Element, Filter (Includes O-Ring Seal) (2 Micron)	11	149-2044	1	Probe Assembly (Includes Connector and O-Ring Seal)
4	502-0180	1	Plug, Pipe - Square Socket Drive	12			Heater Assembly (Includes Metal Bowl)
5	149-1949	1	Head Assembly, Replacement (Includes Vent Plug, O-Ring Seals, Pump Assembly and Tube)		149-1978	1	12 Volt DC
6	149-1952	1	Plug, Vent (Includes Seal)		149-1970	1	24 Volt DC
				13	149-2047	1	Replacement Kit - Pump (Includes Knob, Shaft, Plunger, Ball and Ring) (The only way to get a replacement knob!)

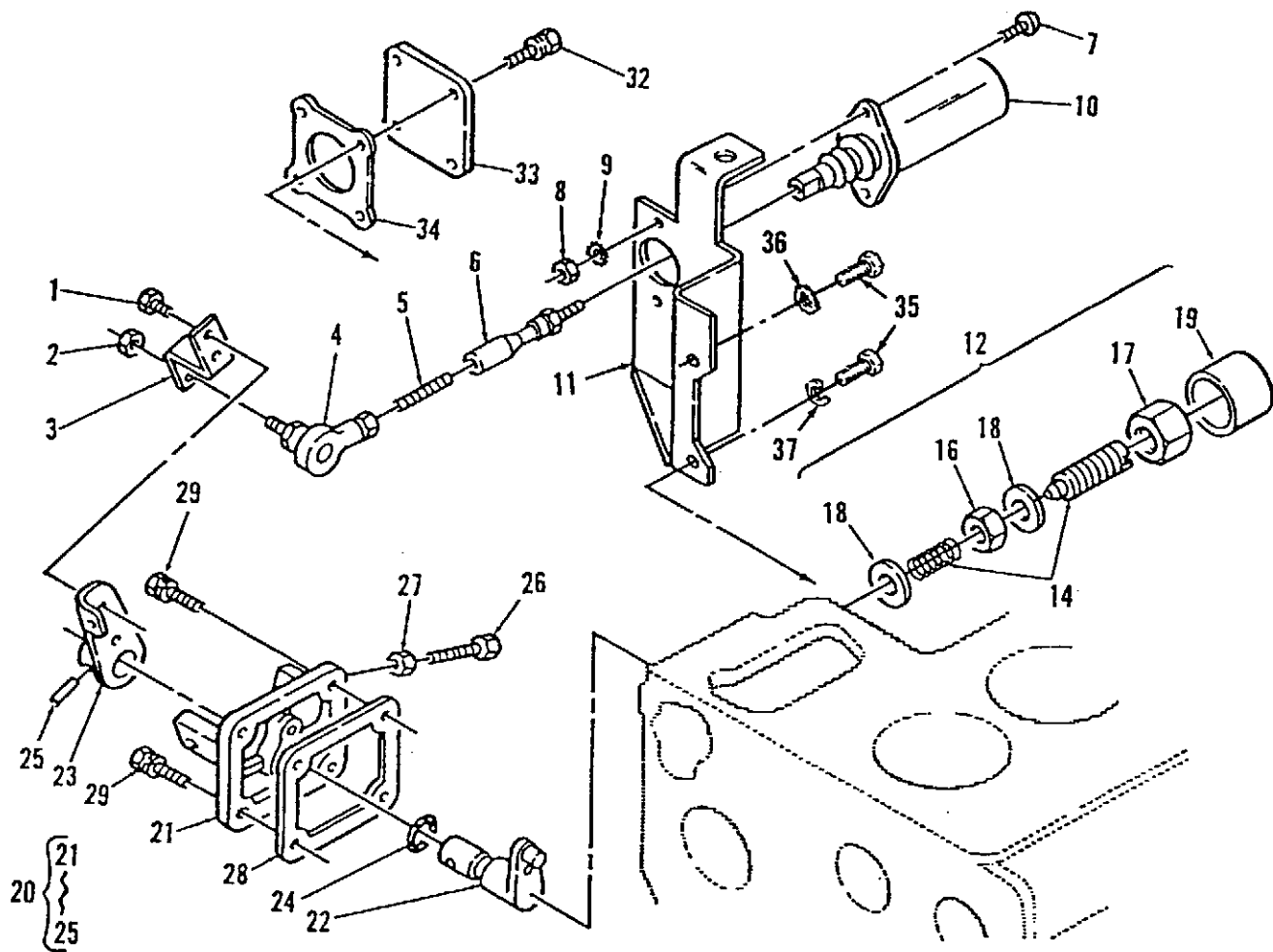
Governor



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2103	1	Spring	9	NFS		Spring
2			Spring, Governor	10	NFS		Pivot
	185-2466	1	50 Hz	11	NFS		Screw, Adjusting
	185-2427	1	60 Hz	12	185-2262	1	Lever, Governor (Style I Gov.)
	185-2440	1	Style II		185-2442	1	Lever, Governor (Style II Gov.)
3	185-2261	1	Lever, with Shaft - Governor	13	185-2166	1	Shaft
5	185-2310	1	Lever Assembly, Governor (Style I Gov.)	14	718-1006	1	Screw, Cap - Hex Head (M5 x .5 x 16mm)
	185-2441	1	Lever Assembly, Governor (Style II Gov.)	15	185-2379	1	Washer, Lock - Spring (M5)
6	NFS		Lever	16	185-2167	1	Holder, Lever - Governor
7	NFS		Follower, Cam	17	185-2173	1	Bolt, Hex
8	NFS		Plug	18	185-2392	2	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 28mm)

NOTE: See introduction for governor style identification.

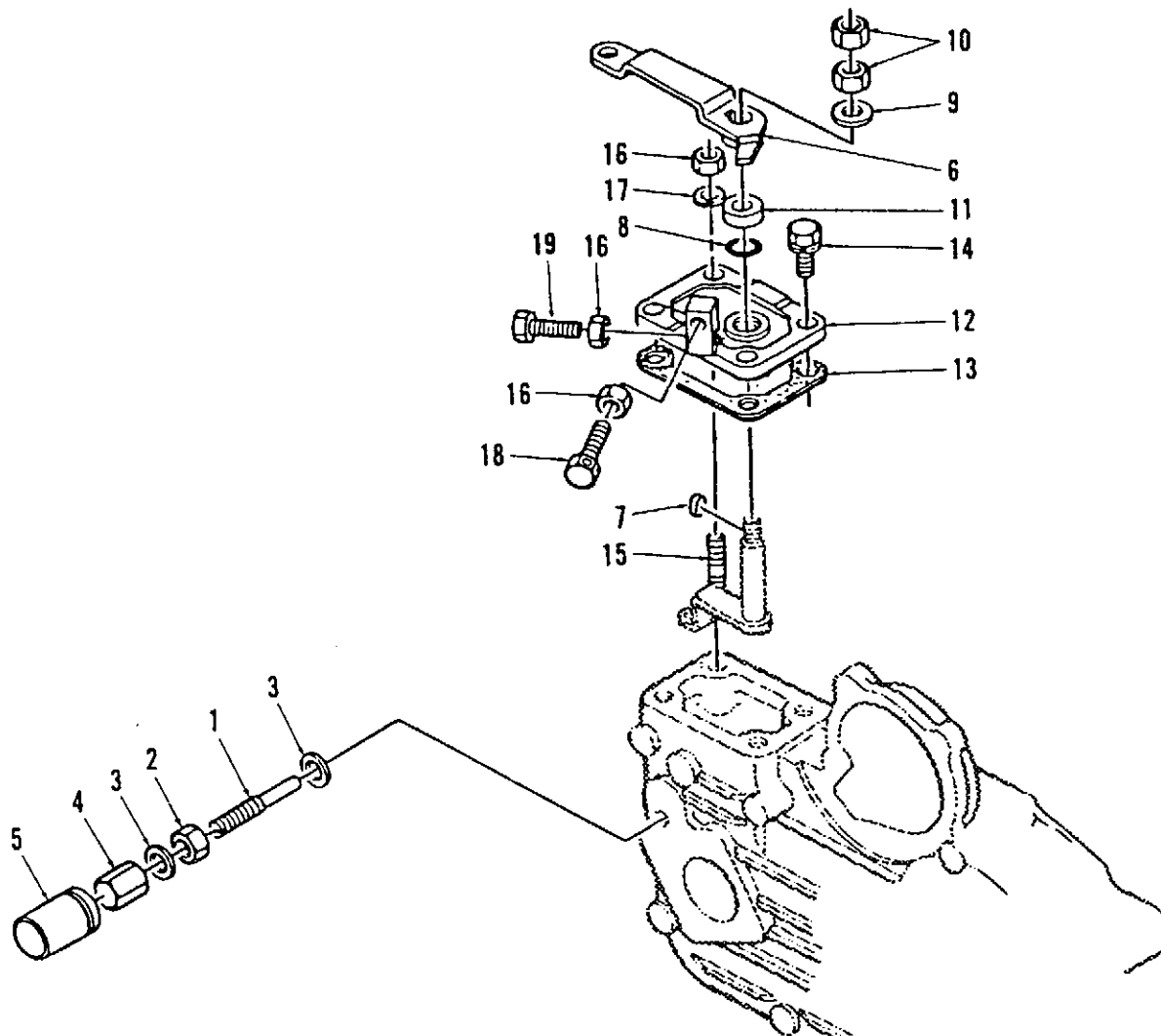
Stop Assembly



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0181	2	Screw, Tapping - Hex Head (#10-32 x 1/2")	20	185-2462	1	Lever, Stop (Includes Parts Marked *)
2	115-0025	1	Nut, Hex (1/4-28 UNF)	21	185-2257	1	*Cover
3	150-1991	1	Bracket, Stop Lever	22	NFS		*Shaft
4	150-1995	1	Ball Joint (1/4-28 UNF)	23	NFS		*Lever
5	520-0939	1	Stud (1/4-28 x 1-1/2" LG)	24	185-2347	1	*O-Ring
6	150-1733	1	Ball Joint (1/4-28 UNF)		185-2461	1	Seal, Oil
7	813-0102	2	Screw, Machine - Round Head (#10-32 x 5/8")	25	185-2351	1	*Pin, Spring
8	870-0131	2	Nut, Hex with ET Lockwasher (#10-32)	26	185-2342	1	Bolt, Hex
9	856-0003	2	Washer, Lock - EIT (#10)	27	750-1004	1	Nut, Hex (M6 x 1)
10	307-2546	1	Solenoid, Electric (12 VDC)	28	185-2114	1	Gasket
11	150-1992	1	Bracket, Solenoid Mounting	29	185-2389	4	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 18mm)
12			Control, Idle - Governor	32	185-2400	4	Screw, Cap - Hex Head with Lockwasher (M8 x 1.25 x 18mm)
	185-2258	1	Style I	33	185-2126	1	Cover
	185-2432	1	Style II	34	185-2120	1	Gasket
14			Adjuster, Idle - Governor	35	800-2057	2	Screw, Hex Head (M8 x 1.25 x 20mm)
	185-2259	1	Style I	36	856-0008	1	Washer, Lock - External, Internal Tooth (M8)
	185-2433	1	Style II	37	850-2008	1	Washer, Lock
16	185-2180	1	Nut, Hex				
17	185-2182	1	Cap Nut				
18	185-2338	2	Seal, Oil				
19	185-2161	1	Cap				

* - Parts Included in Stop Lever Assembly

Speed Control Assembly

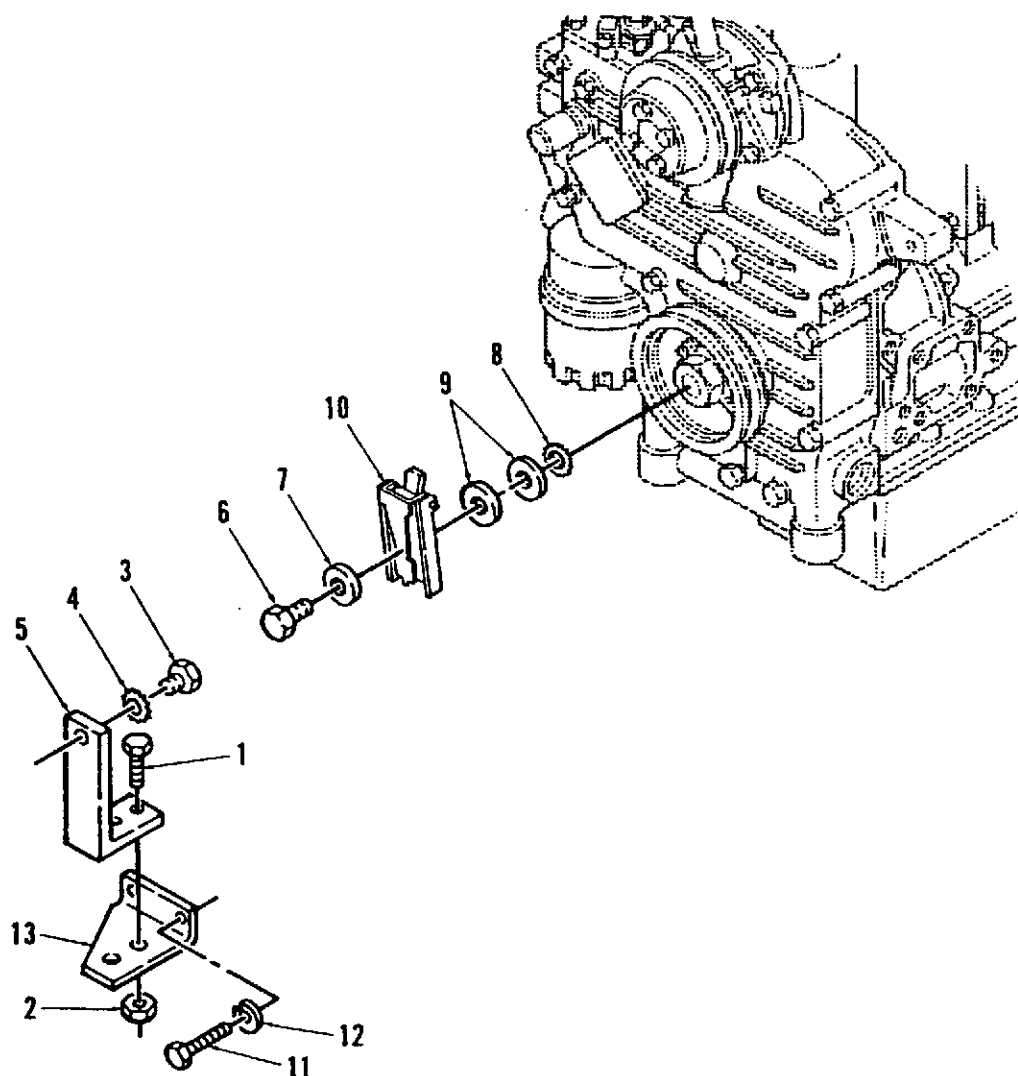


FS-1559

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2260	1	Screw, Adjusting	10	185-2364	2	Nut, Hex (M6 x 1)
	185-2438	1	Style I	11	185-2169	1	Bearing, Sleeve
2	185-2248	1	Nut, Hex	12	185-2263	1	Housing, Control - Speed
3	185-2284	3	Seal, Oil	13	185-2168	1	Gasket
4	185-2282	1	Cap Nut	14	185-2390	3	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 20mm)
5	185-2283	1	Cap	15	185-2105	1	Stud
6	185-2264	1	Lever, Control - Speed	16	750-1004	3	Nut, Hex (M6 x 1)
7	185-2187	1	Key	17	185-2380	1	Washer, Lock - Spring (M6)
8	185-2373	1	O-Ring	18	815-0649	1	Bolt, Hex - Lever Stop
9	185-2376	1	Washer, Flat (M6)	19	185-2439	1	Bolt, Hex - Lever Stop

NOTE: See Introduction for governor style identification.

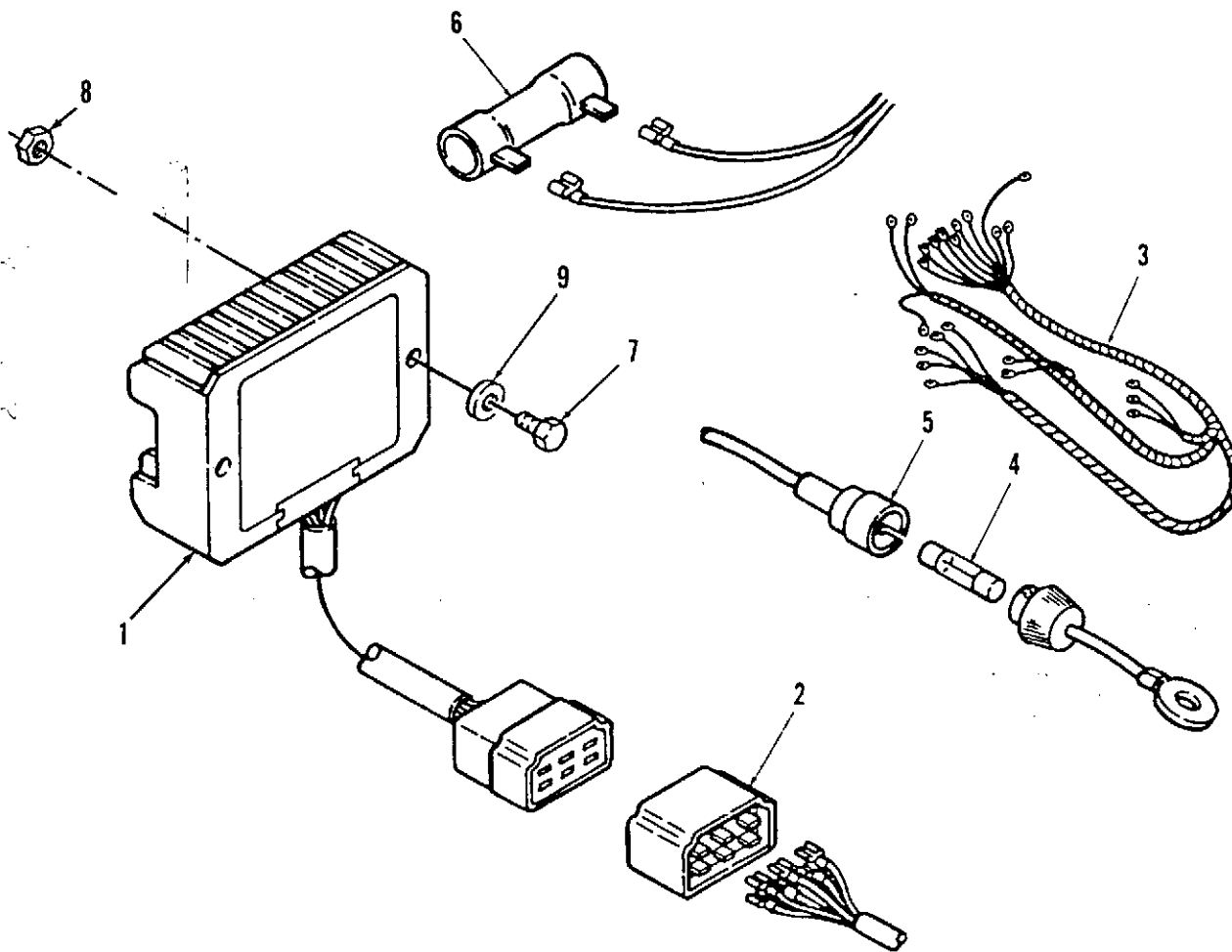
Overspeed Switch



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0015	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 3/4")
2	870-0212	2	Nut, Self-locking - Hex Washer Head (1/4-20)
3	150-2011	1	Point, Contact - Electrical (1/4-20 x 3/8")
4	853-0013	1	Washer, Lock - ET (1/4")
5	150-2009	1	Bracket, Support - Overspeed Contact (Nonmetallic)
6	800-2057	1	Screw, Cap - Hex Head (M8 x 1.25 x 20mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	850-2008	1	Washer, Lock - Spring (M8)
8	856-0008	1	Washer, Lock - EIT (5/16")
9	526-0113	2	Washer, Flat (5/16")
10	150-0717	1	Switch, Overspeed
11	800-2044	2	Screw, Cap - Hex Head (M6 x 1.0 x 70mm)
12	850-2006	2	Washer, Lock - Spring (M6)
13	150-2010	1	Bracket, Support - Overspeed Switch

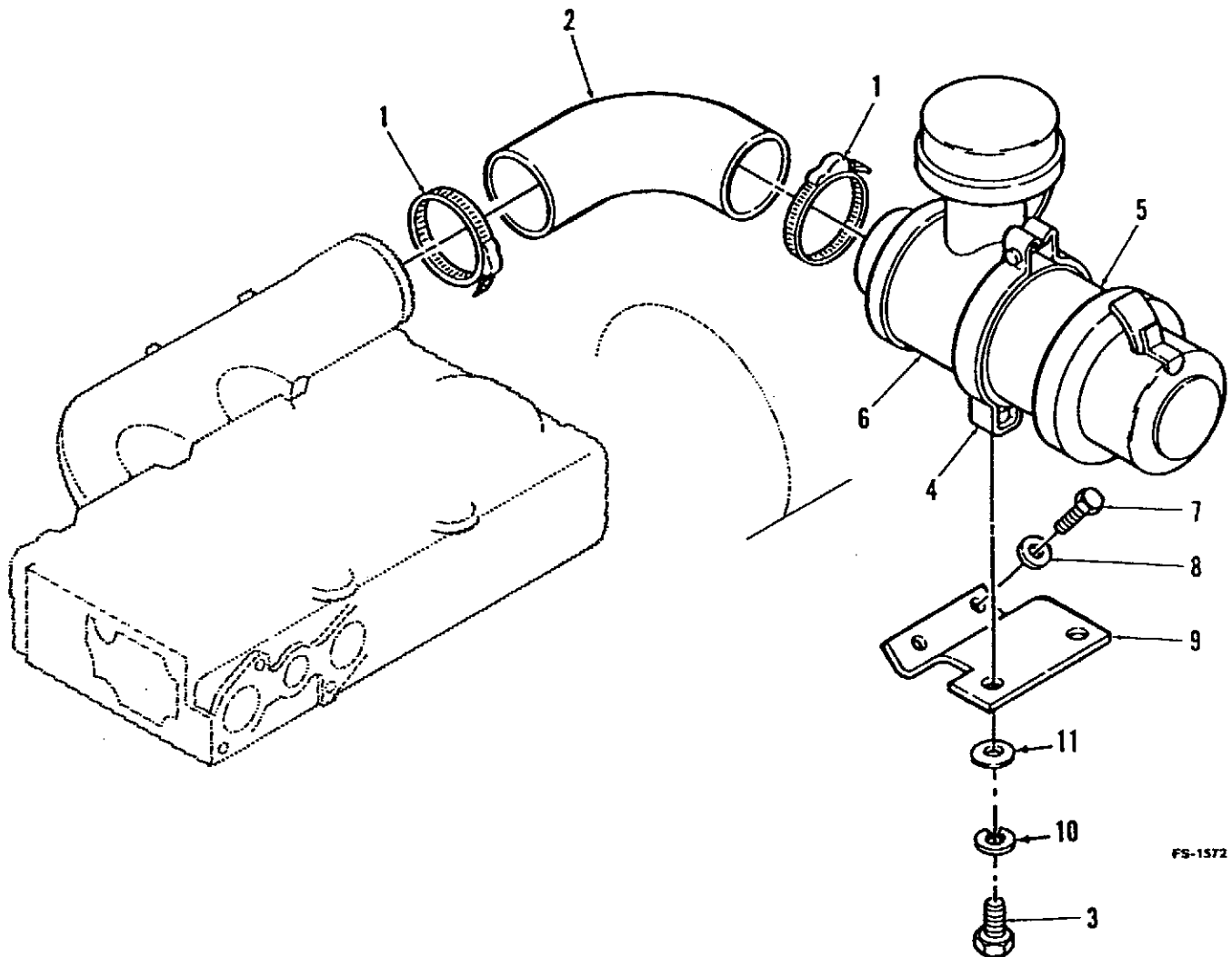
Voltage Regulator & Wiring Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2252	1	Regulator, Voltage (12 VDC)
	815-0236	4	Screw, Tapping - Hex Head (5/16-18 x 5/8")
2	185-2424	1	Adaptor, Electrical Connector
3			Harness, Wiring - Engine to Control
	338-1762	1	Manual Remote
	338-1825-01	1	Without Overspeed Switch
	338-1825-01	1	With Overspeed Switch
4	321-0113	1	Fuse, Cartridge (30 Amp, 32 VDC, Slo Blo)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	321-0267	1	Holder, Fuse
6	304-0776	1	Resistor, Fixed, Wirewound (R1) 5 Ohm, 10 Watt (Part of Engine to Control Wiring Harness)
7	815-0544	2	Screw, Round Head Machine - Cross-Recessed with Internal Teeth (#6-32 x 1/2)
8	870-0050	2	Nut, Self-Locking (6-32)
9	526-1002	2	Washer, Flat (#6)

Air Cleaner

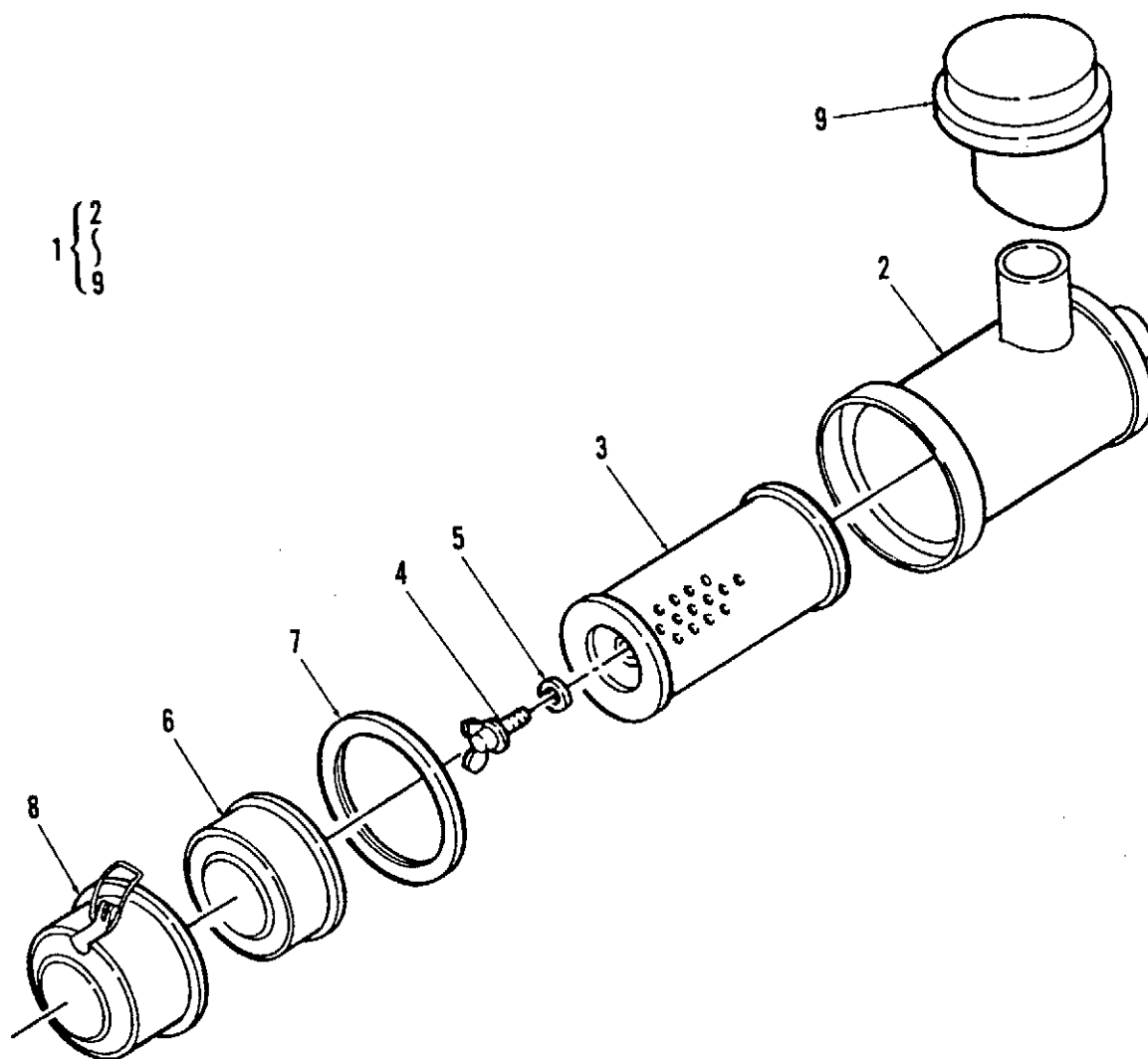


FS-1572

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0365	2	Clamp, Hose
2	503-1316	1	Hose, Elbow - Preformed
3	800-2056	2	Screw, Cap - Hex Head (M8 x 1.25 x 16mm)
4	185-2199	1	Band, Mounting - Air Cleaner
5	185-2201	1	Cushion
6	185-2206	1	Cleaner Assembly, Air (See Separate Page for Components)
7	815-0315	2	Screw, Tapping - Hex Washer Head (1/4-20 x 1/2") or use -
	821-0010	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	526-0018	2	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk)
9	140-1902	1	Bracket, Mounting - Air Cleaner
10	850-2008	2	Washer, Lock (M8)
11	526-2100	2	Washer, Flat (M8)

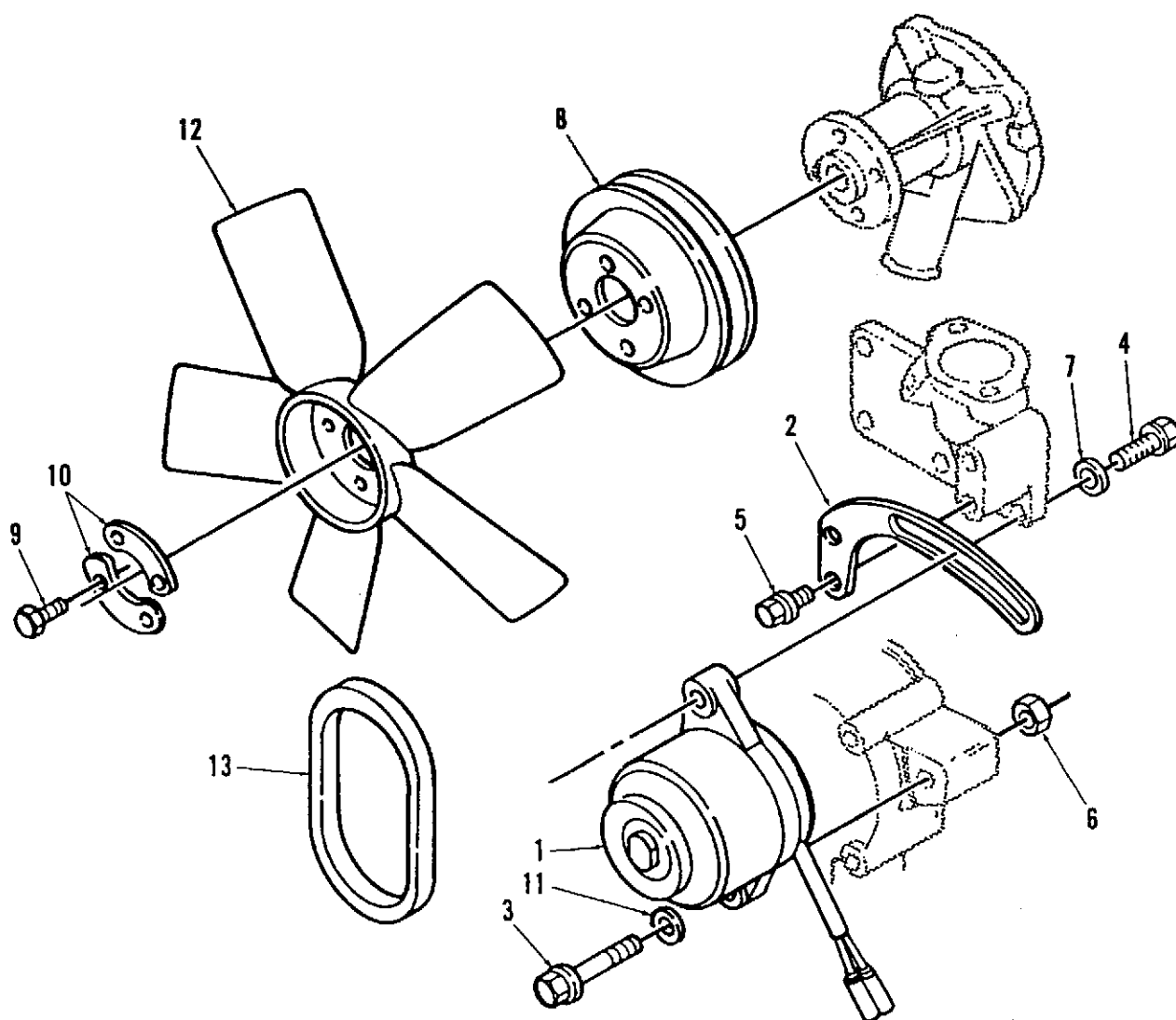
Air Cleaner - Components



FS-1575

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2206	1	Cleaner Assembly, Air	6	185-2091	1	Baffle
2	NFS		Housing, Air Cleaner	7	185-2089	1	Gasket
3	185-2090	1	Element, Filter - Air Cleaner	8	185-2121	1	Cover
4	185-2108	1	Bolt, Wing	9	185-2122	1	Hood, Air Inlet
5	185-2110	1	Gasket				

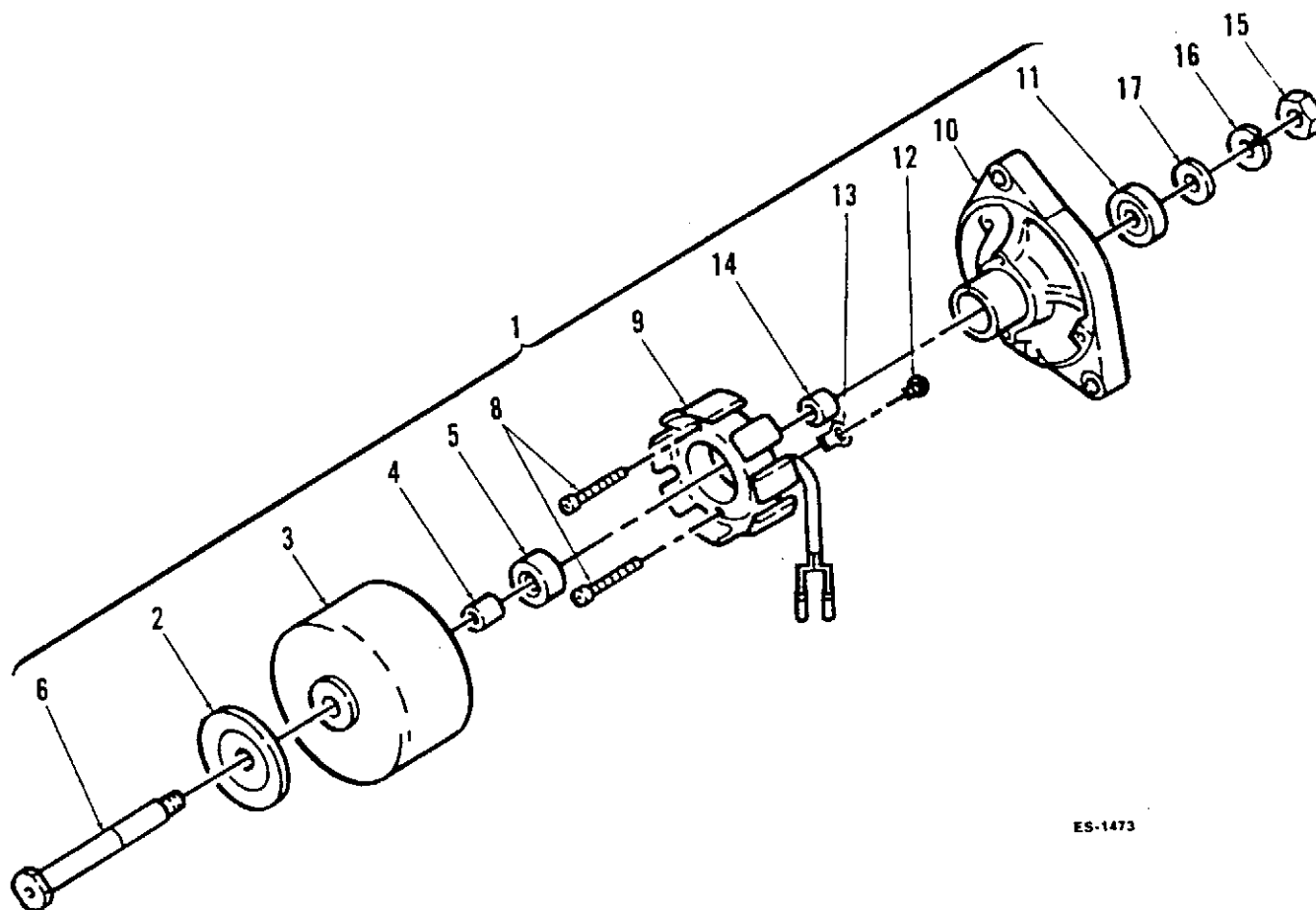
Alternator



ES-1503

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2266	1	Alternator (12 VDC) (See Separate Page for Components)	7	185-2377	1	Washer, Flat (M8)
2	185-2273	1	Bracket, Adjusting	8	185-2247	1	Pulley
3	185-2405	1	Screw, Cap - Hex Head with Lockwasher (M8 x 1.25 x 60mm)	9	718-1018	4	Screw, Cap - Hex Head (M6 x 10mm)
4	185-2403	1	Screw, Cap - Hex Head with Lockwasher (M8 x 1.25 x 25mm)	10	185-2346	2	Locking Plate - Bolt/Nut
5	185-2388	1	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 16mm)	11	185-2378	1	Washer, Flat (M8)
6	750-1006	1	Nut, Hex (M8 x 1.25)	12	130-2408	1	Fan, Pusher (4 Blade)
				13	185-2839	1	Fan, Suction
					185-2275	1	Belt, Drive

Alternator - Components

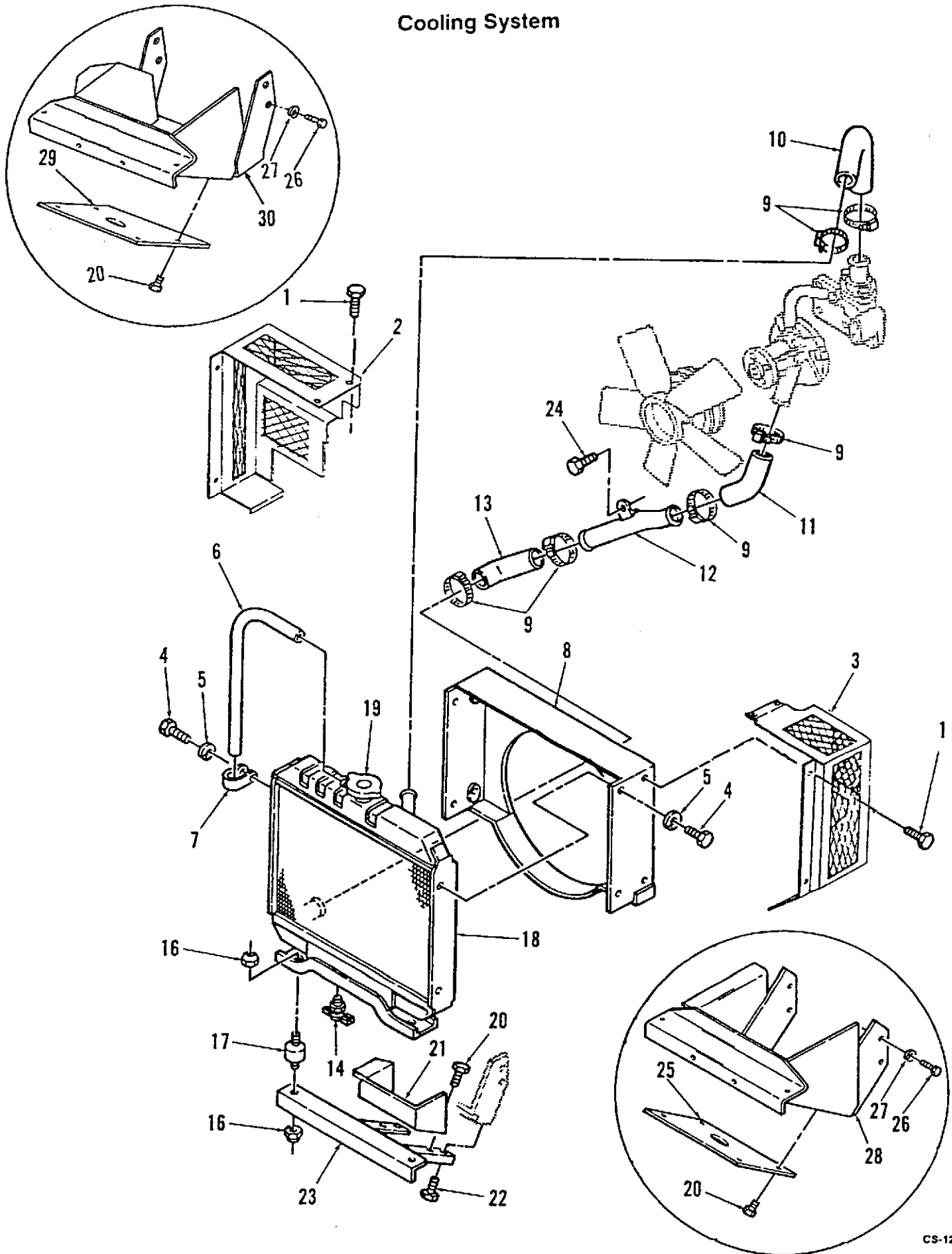


ES-1473

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2266	1	Alternator (12 VDC)
2	185-2269	1	Pulley
3	185-2267	1	Rotor
4	185-2270	1	Spacer, Sleeve
5	185-2246	1	Bearing, Ball
6	185-2245	1	Shaft, Rotor
8	185-2183	2	Screw, Machine - Round Head, Cross-Recessed Drive, with Lockwasher
9	185-2272	1	Stator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	185-2268	1	Housing, Alternator
11	185-2246	1	Bearing, Ball
12	185-2249	1	Screw, Machine - Round Head - Cross-Recessed Drive, with Lockwasher
13	185-2271	1	Clamp, Electrical Cord
14	185-2171	1	Spacer, Sleeve
15	185-2181	1	Nut, Hex
16	185-2186	1	Washer, Lock - Spring
17	185-2185	1	Washer, Flat

Cooling System

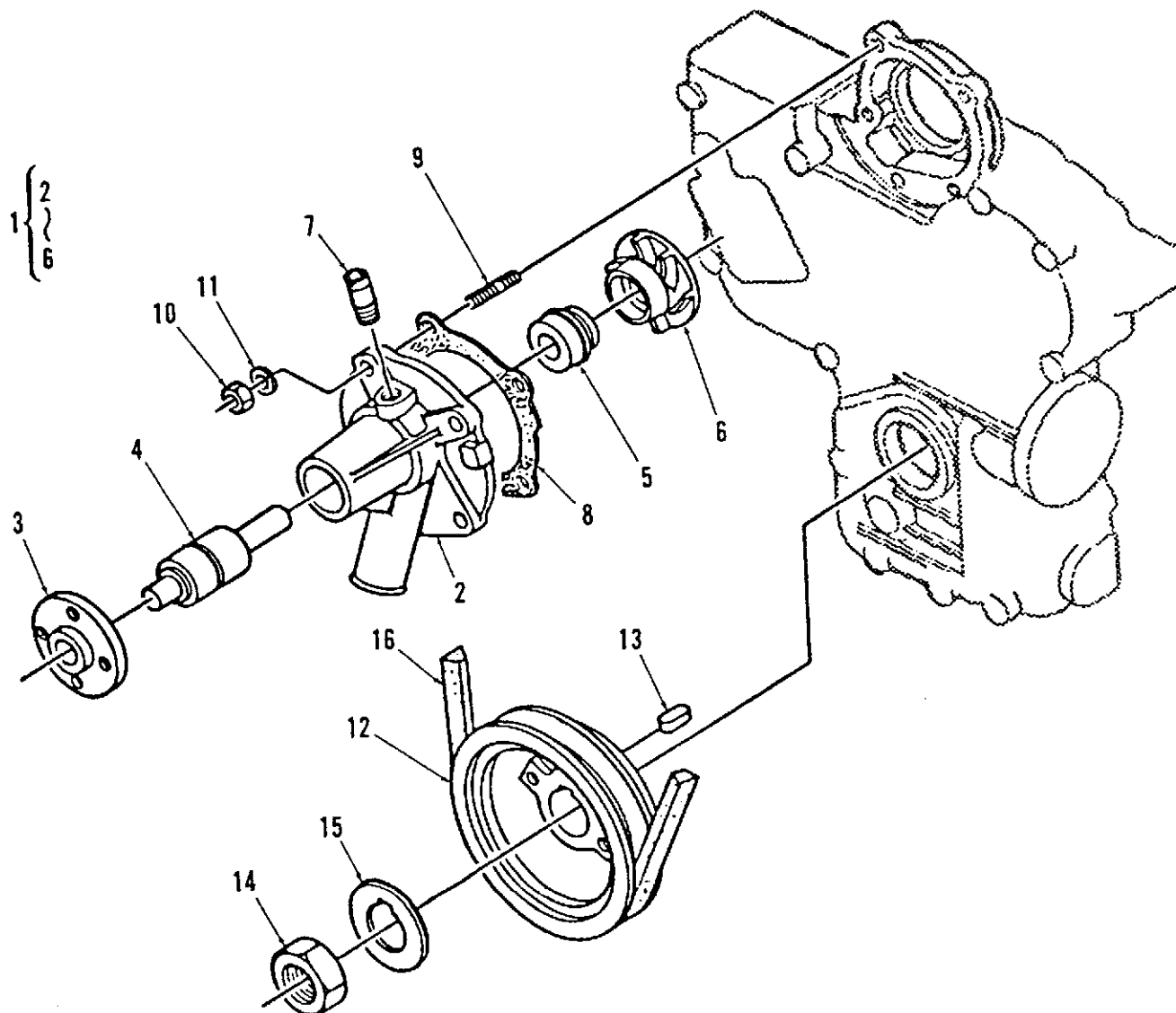


CS-1257

Cooling System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0009	6	Screw, Self-locking - Hex Washer Head (1/4-20 x 3/8")	21	130-2501	1	Guard, Belt (Used Through February 1984)
2	130-2500	1	Guard, Belt (Left Side)	22	821-0029	2	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4") (Used Through February 1984)
3	130-2493	1	Guard, Belt (Right Side)	23	130-2350	1	Bracket Assembly, Radiator (Used Through February 1984)
4	800-2027	4	Screw, Cap - Hex Head (M6 x 1 x 10mm)	24	718-1017	1	Screw, Cap - Hex Head (M6 x 1.0 x 10mm) (Used Through February 1984)
5	850-2006	4	Washer, Lock - Spring (M6)	25	130-2550	1	Guard, Belt (Used Beginning March 1984)
6	185-2421	1	Hose, Rubber - Overflow	26	815-0585	4	Screw, Cap - Hex Head (M10 x 1.25 x 20mm) (Used Beginning March 1984)
7	332-2650	1	Clamp, Loop	27	850-2010	4	Washer, Lock - Spring (M10) (Used Beginning March 1984)
8	130-2514	1	Shroud, Fan	28	130-2548	1	Bracket Assembly, Radiator (Used Beginning March 1984)
9	503-0189	6	Clamp, Hose	29	130-3231	1	Guard, Belt (Use Beginning Spec 8)
10	185-2256	1	Hose, Radiator - Preformed	30	130-3232	1	Bracket Assembly, Radiator (Use Beginning Spec 8)
11	185-2278	1	Hose, Rubber - Preformed				
12	185-2277	1	Tube, Water				
13	185-2276	1	Hose, Rubber - Preformed				
14	504-0005	1	Cock, Drain (3/8 NPT)				
16	870-0212	4	Nut, Self-locking - Hex Washer Head (1/4-20)				
17	402-0581	2	Mount, Vibration				
18	185-2255	1	Radiator (Includes Cap)				
19	185-2193	1	Cap, Radiator				
20	815-0389	4	Screw, Tapping - Hex Washer Head (1/4-20 x 3/8") or use -				
	821-0009	4	Screw, Self-locking - Hex Washer Head (1/4-20 x 3/8")				

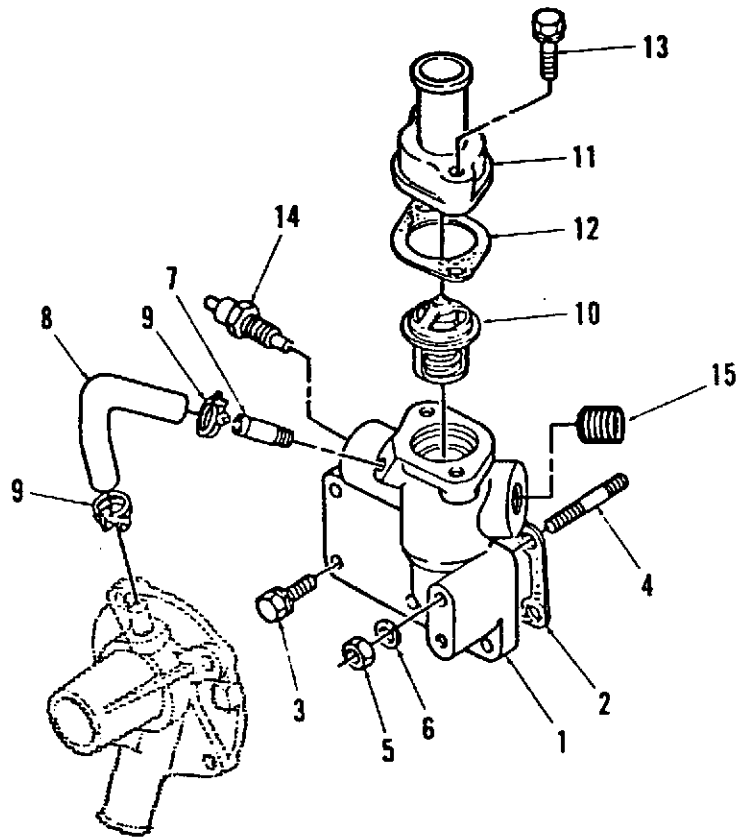
Water Pump



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2236	1	Pump, Water
2	NFS		Housing, Pump
3	185-2243	1	Flange, Pump Shaft
4	185-2244	1	Shaft with Bearing
5	185-2237	1	Seal
6	185-2242	1	Impeller
7	185-2239	1	Adapter, Hose
8	185-2241	1	Gasket

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	185-2363	4	Stud
10	750-1004	4	Nut, Hex (M6 x 1)
11	185-2380	4	Washer, Lock - Spring (M6)
12	185-2251	1	Pulley
13	185-2353	1	Key
14	185-2088	1	Nut, Hex
15	185-2207	1	Washer, Flat - Keyed
16	185-2275	1	Belt, Drive

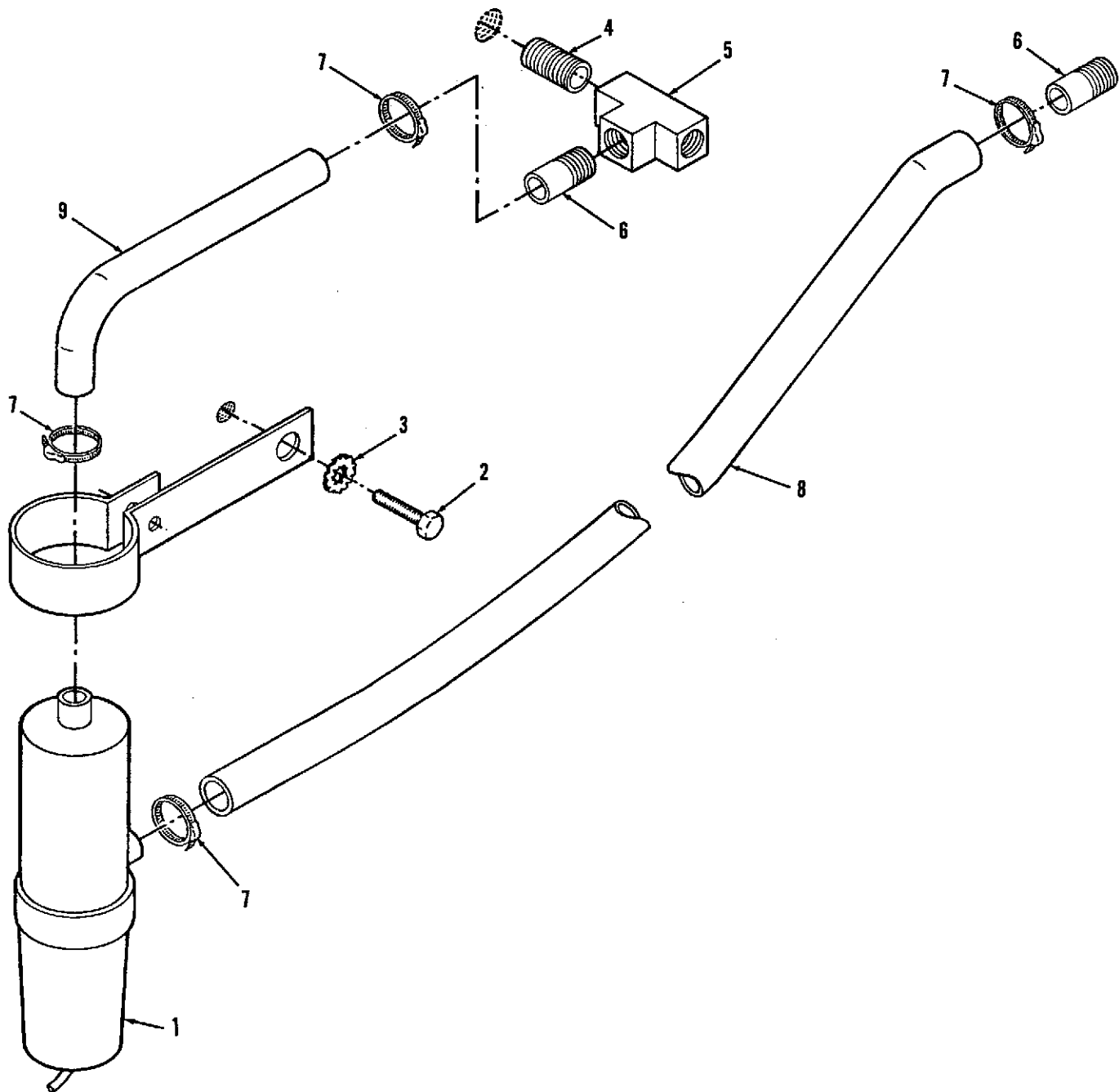
Cooling System - Thermostat & Housing



CS-1259

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2311	1	Housing, Thermostat	10	185-2235	1	Thermostat
2	185-2175	1	Gasket	11	185-2423	1	Cover, Thermostat
3	185-2388	5	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 16mm)	12	185-2238	1	Gasket
4	185-2360	1	Stud	13	185-2393	2	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 35mm)
5	750-1004	1	Nut, Hex (M6 x 1)	14	309-0513	1	Switch, Thermostatic - High Engine Temperature Shutdown (S2)
6	185-2380	1	Washer, Lock - Spring (M6)	15	505-0266	1	Plug, Pipe - Square Socket Drive
7	185-2239	1	Adapter, Hose				
8	185-2300	1	Hose, Rubber - Preformed				
9	185-2240	2	Clamp, Hose				

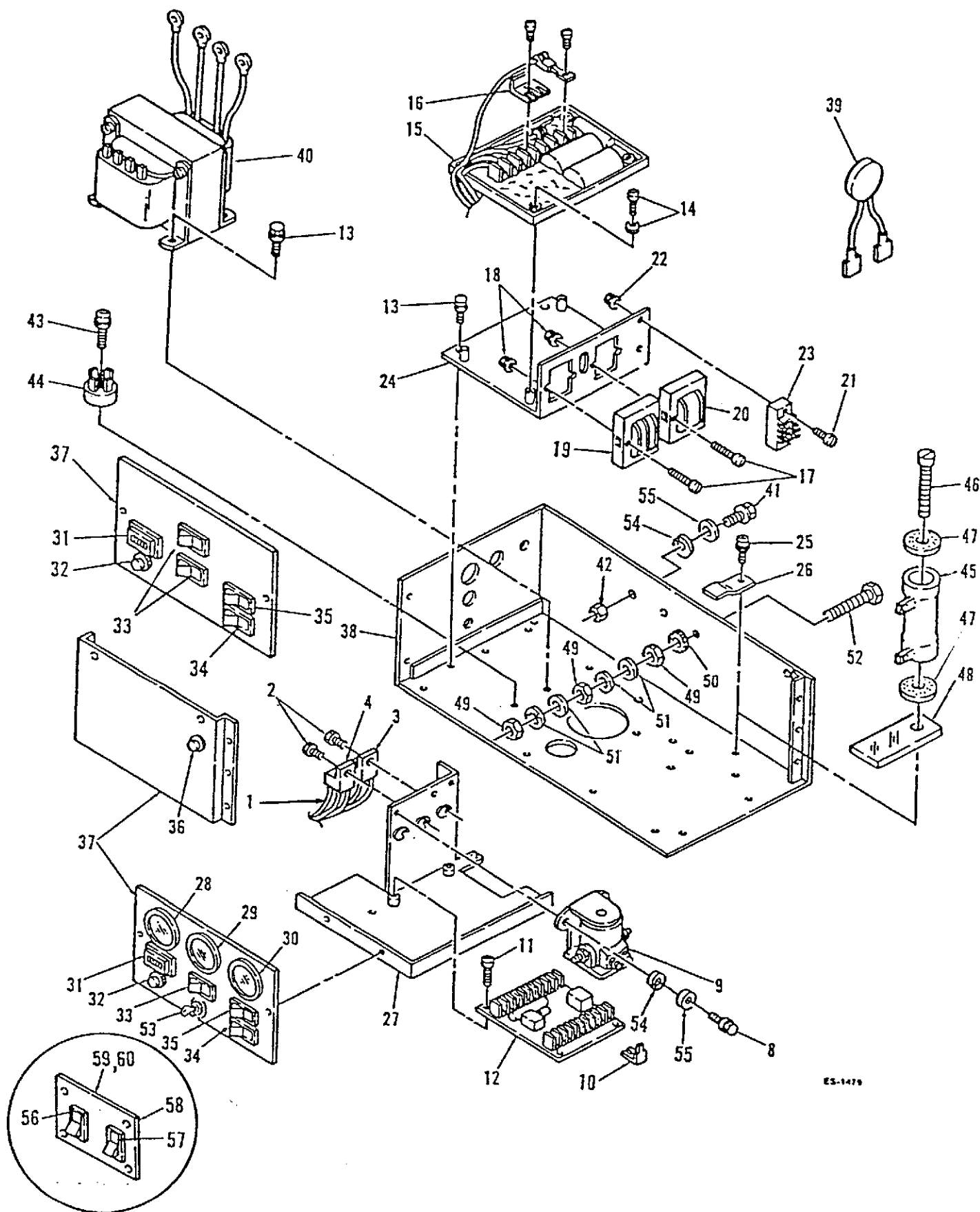
Engine Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0406-01	1	Heater, Engine
2	815-0586	1	Screw, Cap - Hex Head (M10 x 1.25 x 16mm)
3	856-0010	1	Washer, Lock - EIT (M10)
4	505-0306	1	Nipple, Pipe

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	505-0060	1	Tee, Pipe
6	505-0135	2	Nipple, Pipe - Half
7	503-0183	4	Clamp, Hose (#10)
8	503-0712	1	Hose, Heater (28\" Lg)
9	503-0261	1	Hose, Water (8.5\" Lg)

Control

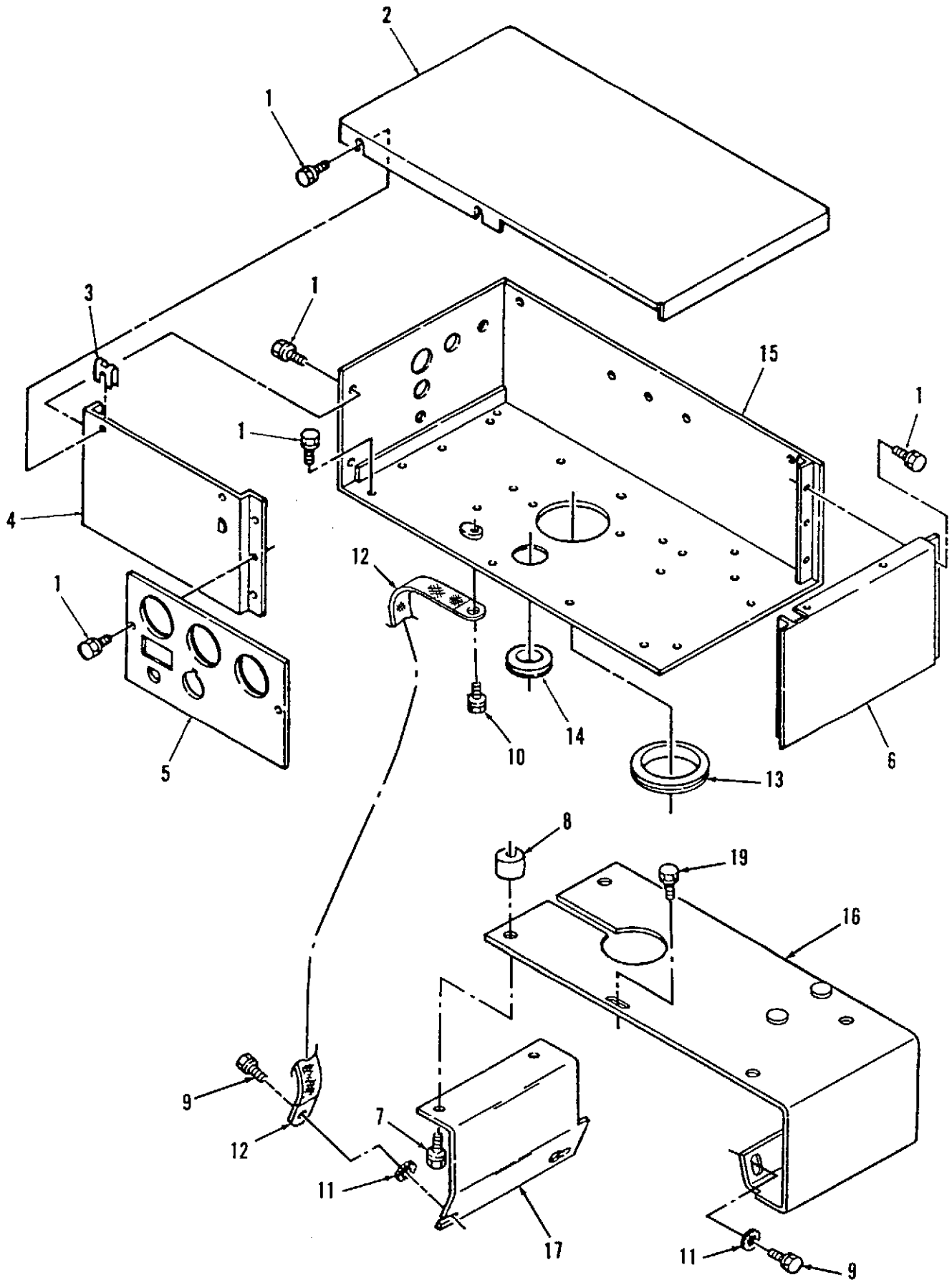


ES-1479

Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-1760	1	Harness, Wiring - Control (Includes K13, K14 Relays)	35	308-0739	1	Switch, Rocker - Start/Stop (S11)
2	821-0004	2	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")	36	320-1121	1	Breaker, Circuit - 3 Amp, 250 VAC (CB21)
3	307-1886	1	Relay (K13)	37			Panels (See Control Box Assembly Figure for Identification)
4	307-1886	1	Relay (K14)	38			Box, Control (See Control Box Assembly Figure for Identification)
8	821-0003	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")	39	305-0703	1	Suppressor, Voltage (RV21) - Single Phase Sets
9	307-1617	1	Solenoid, Electric - 12 VDC (K11)	40			Transformer, Voltage Regulating (T21) - Single Phase Sets
10	332-1564	2	Lug, Terminal - Right Angle		315-0571	1	60 Hz
11	815-0544	4	Screw, Machine - Round Head Cross-Recessed Drive with IT Lockwasher (#6-32 x 1/2")		315-0582	1	50 Hz
12	300-2604	1	Board, Circuit - Printer (Engine Monitor) (A11)	41	821-0003	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2") - Single Phase Sets
13	821-0004	7	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")	42	332-2370	2	Standoff, Insulating - Hex (TB21,22) - Single Phase Sets
15	305-0688	1	Regulator, Voltage - Switching (VR12)	43	815-0346	1	Screw, Machine - Round Head Brass with IT Lockwasher (#10-32 x 4/8") - Single Phase Sets
	812-0071	4	Screw, Machine - Round Head (#6-32 x 1-1/2")	44	305-0696	1	Rectifier, Bridge (CR21) - Single Phase Sets
	853-0003	4	Washer, Lock - ET (#6)	45	304-0776	1	Resistor, Fixed (R1) 5 Ohm 10 Watt (Part of Engine to Control Wiring Harness) - Manual Start Sets
16	332-2605	1	Jumper, Terminal	46	812-0090	1	Screw, Machine - Round Head (#8-32 x 2-1/4") - Manual Start Sets
17	812-0070	4	Screw, Machine - Round Head (#6-32 x 1-1/4")	47	508-0015	2	Washer, Flat - Fiber (#8) - Manual Start Sets
18	870-0183	4	Nut, Hex - with ET Lockwasher (#6-32)	48	304-0580	1	Plate, Insulating - Manual Start Sets
19	315-0386	1	Transformer, Voltage Ref (T21)	49	871-0016	3	Nut, Hex - Brass - Manual Start Sets (1/4-20)
20	315-0391	1	Reactor (CMR21)	50	856-0006	2	Washer, Lock - EIT (1/4) - Manual Start Sets
21	812-0063	2	Screw, Machine - Round Head (#6-32 x 1/2")	51	526-0052	4	Washer, Flat - Brass (1/4") Manual Start Sets
22	870-0183	2	Nut, Hex - with ET Lockwasher (#6-32)	52	821-0012	1	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1-1/8") - Manual Start Sets
23	332-1655	1	Block, Terminal (TB21)	53	308-0779	1	Switch, Selector (S11) - Manual Start Sets
24	301-3719	1	Panel, Mounting - Regulator		308-0843	1	Key
25	815-0544	1	Screw, Machine - Round Head Cross-Recessed Drive with IT Lockwasher (#6-32 x 1/2")	54	850-0040	3	Washer, Lock (1/4)
26	518-0437	1	Clip, Holddown	55	526-0018	3	Washer, Flat (1/4)
27	301-8454	1	Tray, Control - Relay Mounting	56	308-0827	1	Switch, Start/Run/Stop - Remote Units
28	193-0352	1	Gauge, Pressure - Oil (M12)	57	308-0826	1	Switch, Preheat - Remote Units
29	193-0351	1	Gauge, Temperature - Coolant (M13)	58	301-9484	1	Panel, Remote - Remote Units
30	302-1641	1	Voltmeter - 12 VDC (M14)	59	98-5496	1	Decal, Panel (Front) - Remote Units
	302-0270	1	Clamp, Mounting	60	98-5497	1	Decal, Panel (Rear) - Remote Units
	526-0049	36	Washer, Flat (#10)				
	871-0010	6	Nut, Hex (#10-32)				
31	302-0885	1	Meter, Totalizing - Time (M11)				
	815-0544	2	Screw, Machine - Round Head Cross-Recessed Drive with IT Lockwasher (#6-32 x 1/2")				
	870-0183	2	Nut, Hex - with ET Lockwasher (#6-32)				
32	320-1139	1	Breaker, Circuit - 1/2 Amp, 50 VDC (CB12)				
33	320-1140	2	Breaker, Circuit - 15 Amp, 32 VDC, 125 VAC (CB11, 13)				
34	308-0778	1	Switch, Rocker - Preheat (S12)				

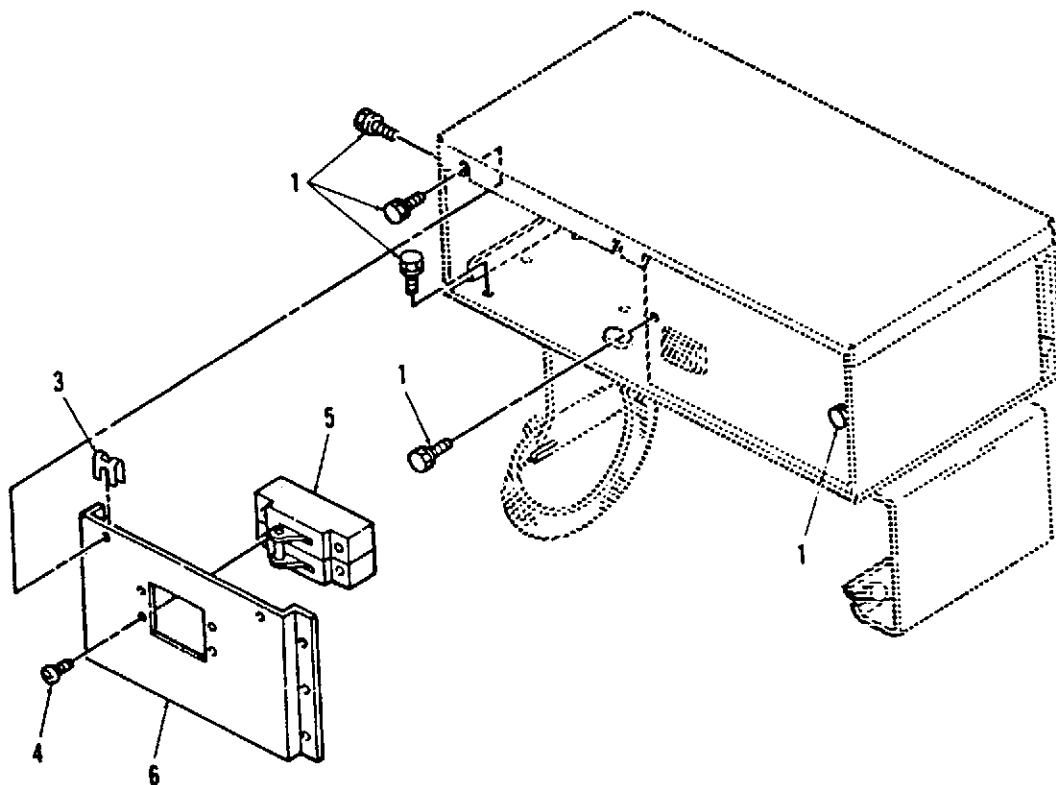
Control Box Assembly



Control Box Assembly

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0544	16	Screw, Self-locking - Hex Washer Head (1/4-20 x 5/8")	6	301-8450	1	Panel, End
2	301-8447	1	Cover, Control	7	821-0014	4	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")
3	870-0398	6	Nut, Retaining (#10-32)	8	402-0078	4	Mount, Vibration
4	301-8445	1	Panel, Control - Generator Without Hole for Circuit Breaker	9	815-0236	4	Screw, Tapping - Hex Washer Head (5/16-18 x 5/8") or use
	301-8569	1	With Hole for Circuit Breaker	10	800-0025	1	Screw, Self-locking - Hex Washer Head (5/16-18 x 5/8")
5			Panel, Control - Engine Manual Start Sets	11	856-0008	4	Washer, Lock - EIT (5/16")
	301-8448	1	With Holes for Time Totalizing Meter, Selector Switch and Round Circuit Breaker	12	337-0049	1	Strap, Ground - Electrical
	301-8449	2	With Holes for Three Gauges, Time Totalizing Meter, Selector Switch and Round Circuit Breaker	13	508-0115	2	Grommet (2-1/8" ID x 2-7/8" OD)
	301-8451	1	Remote Start Sets With Holes for Two Switches, Rectangular Circuit Breaker, Time Totalizing Meter and Round Circuit Breaker	14	508-0117	1	Grommet (1-1/8" ID x 1-3/8" OD)
	301-8452	1	With Holes for Three Gauges, Two Switches, Rectangular Circuit Breaker, Time Totalizing Meter and Round Circuit Breaker	15	301-8453	1	Box, Control
				16	301-8446	1	Saddle, Mounting - Control
				17	301-8634	1	Support, Saddle
				19	821-0009	1	Screw, Self-Locking - Hex Washer Head (1/4-20 x 3/8")

Circuit Breaker

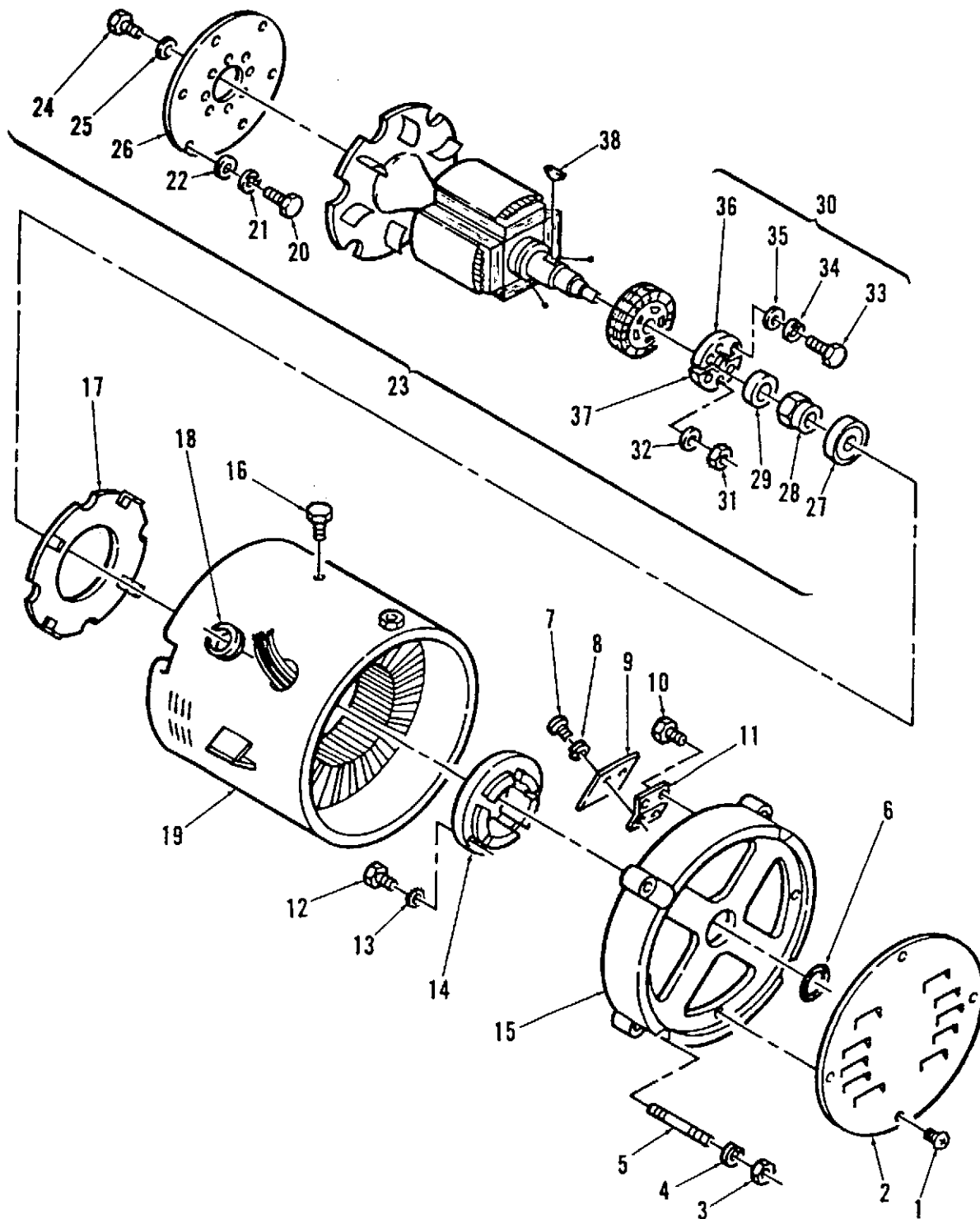


ES-1309

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0005	11	Screw, Hex Washer Head (#10-32 x 1/2")
3	870-0398	6	Nut, Retaining (#10-32)
4	812-0063	AR	Screw, Machine - Round Head (#6-32 x 1/2")
5			Breaker, Circuit
			Single Phase (240 Volt)
	320-1252	1	18 Amp
	320-1253	1	20 Amp
	320-1324	1	24 Amp
	320-1325	1	28 Amp
	320-1326	1	30 Amp
	320-1327	1	35 Amp
			Three Phase (250 Volt)
	320-1387	1	7.5 Amp
	320-1388	1	12 Amp
	320-1389	1	13.5 Amp
	320-1251	1	15 Amp
	320-1390	1	24 Amp
	320-1391	1	27 Amp

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6			Panel, Circuit Breaker
	301-8567	1	With 2 x 1-1/2" Opening (4 Screw Holes)
	301-8568	1	With 2 x 2-1/4" Opening (4 Screw Holes)
	301-9218	1	With 2 x 2-1/4" Opening (6 Screw Holes)

Generator Assembly



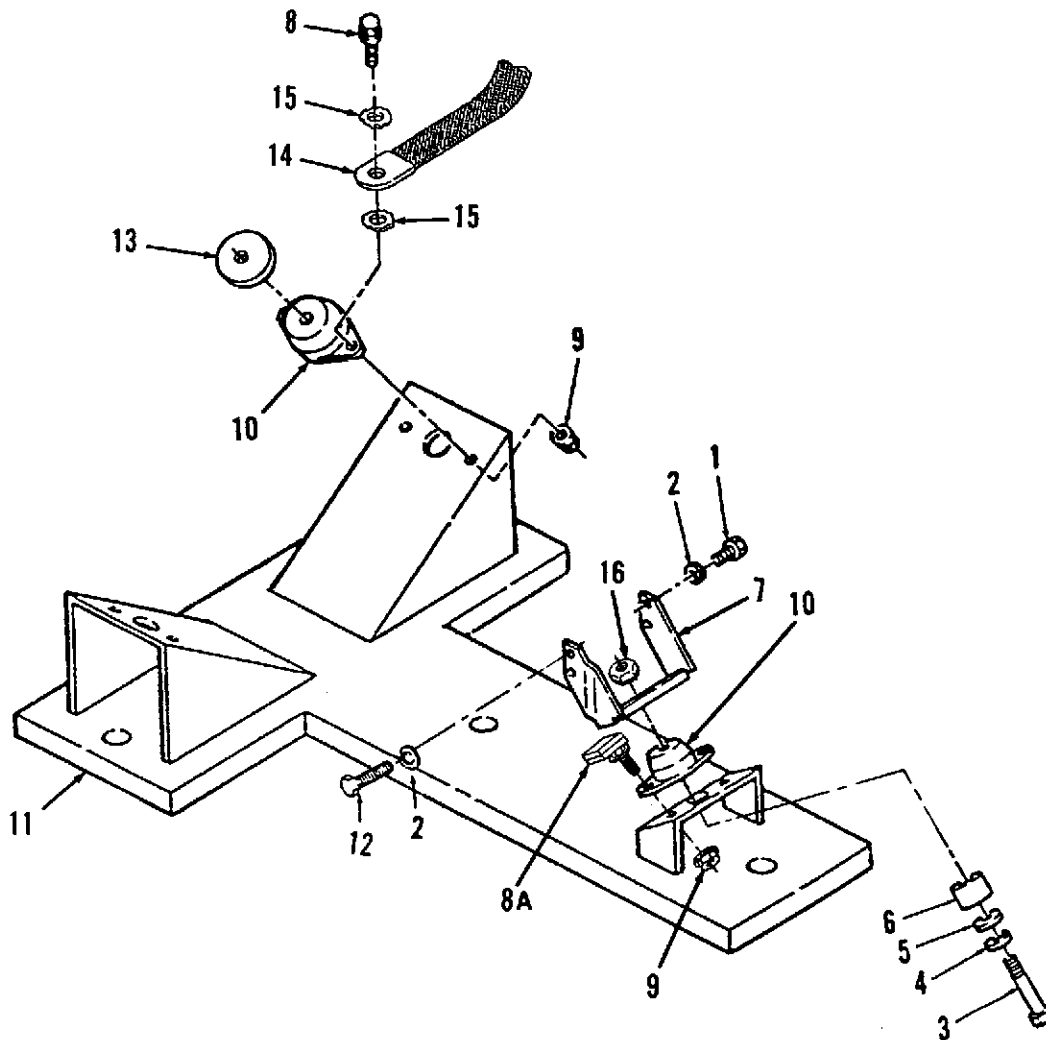
Generator Assembly

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0100	4	Screw, Machine - Round Head (#10-32 x 1/2")	20	718-1036	6	Screw, Cap - Hex Head (M8 x 1.25 x 20mm)
2	234-0767	1	Cover, End Bell	21	850-2008	6	Washer, Lock - Spring (M8)
3	862-0011	4	Nut, Hex (3/8-16)	22	526-0115	6	Washer, Flat (11/32" ID x 11/16" OD x 1/16" THK)
4	850-0050	4	Washer, Lock - Spring (3/8")	23			Rotor Assembly, Gen (Includes Parts Marked *)
5	520-0935	4	Stud (3/8-16 UNC x 13" LG)		201-3129	1	3.5 thru 4.0 kW, Codes 3C, 53C, 18, 518
	520-0936	4	(3/8-16 UNC x 13-3/4" LG)		201-3130	1	3.5 thru 4.0 kW, Code 18 (Extended Stack)
	520-0937	4	(3/8-16 UNC x 14-5/16" LG)	24	805-0015	6	*Bolt, Hex - Slotted - Grade 8 (3/8-16 x 3/4")
6	509-0094	1	O-Ring	25	526-0029	6	*Washer, Flat (3/8")
7	813-0098	2	Screw, Machine - Round Head (#10-32 x 3/8")	26	232-2826	1	*Disk, Drive
8	856-0003	2	Washer, Lock - EIT (#10)	27	510-0112	1	*Bearing, Ball
9	232-2418	1	Terminal Board	28	870-0284	1	*Nut, Self-locking - Hex (1-1/8-12)
10	815-0194	2	Screw, Tapping - Hex Head W/ET Lockwasher (#10-32 x 3/8")	29	232-3017	1	*Spacer, Sleeve
11	232-3038	1	Bracket, Mounting - Terminal Board	30			*Rotor Assembly, Exciter (Includes Parts Marked *)
12	800-0009	2	Screw, Cap - Hex Head (1/4-20 x 1-1/2")		201-2151	1	Standard
13	853-0013	2	Washer, Lock - ET (1/4")		201-2299	1	Environmental Protected
14	220-2009	1	Stator, Exciter Standard	31	870-0131	6	**Nut, Self-locking - Hex with ET Lockwasher (#10-32)
	220-2308	1	Environmental Protected	32	526-0008	6	**Washer, Flat (#10)
15	211-0370	1	End Bell	33	813-0100	4	**Screw, Machine - Round Head (#10-32 x 1/2")
16	821-0015	4	Screw, Self-locking - Hex Washer Head (1/4-20 x 3/4")	34	853-0008	4	**Washer, Lock - ET (#10)
17	234-0766	1	Baffle, Air	35	526-0008	4	**Washer, Flat (#10)
18	508-0183	1	Grommet (1-1/2" ID x 2-1/8" OD)	36	358-0069	1	**Rectifier Assembly, Positive
19			Stator, Generator	37	358-0070	1	**Rectifier Assembly, Negative
	220-3911	1	3.5 kW, Code 53C (Standard)	38	515-0094	1	*Key, Woodruff (#6)
	220-4022	1	3.5 kW, Code 53C (Environmental Protected)				
	220-3928	1	3.5 kW, Code 518				
	220-3903	1	4 kW, Code 3C (Standard)				
	220-4014	1	4 kW, Code 3C (Environmental Protected)				
	220-3920	1	4 kW, Code 18				
	220-3921	1	4 kW, Code 18 (Extended Stack)				

* - Parts Included in Rotor Assembly.

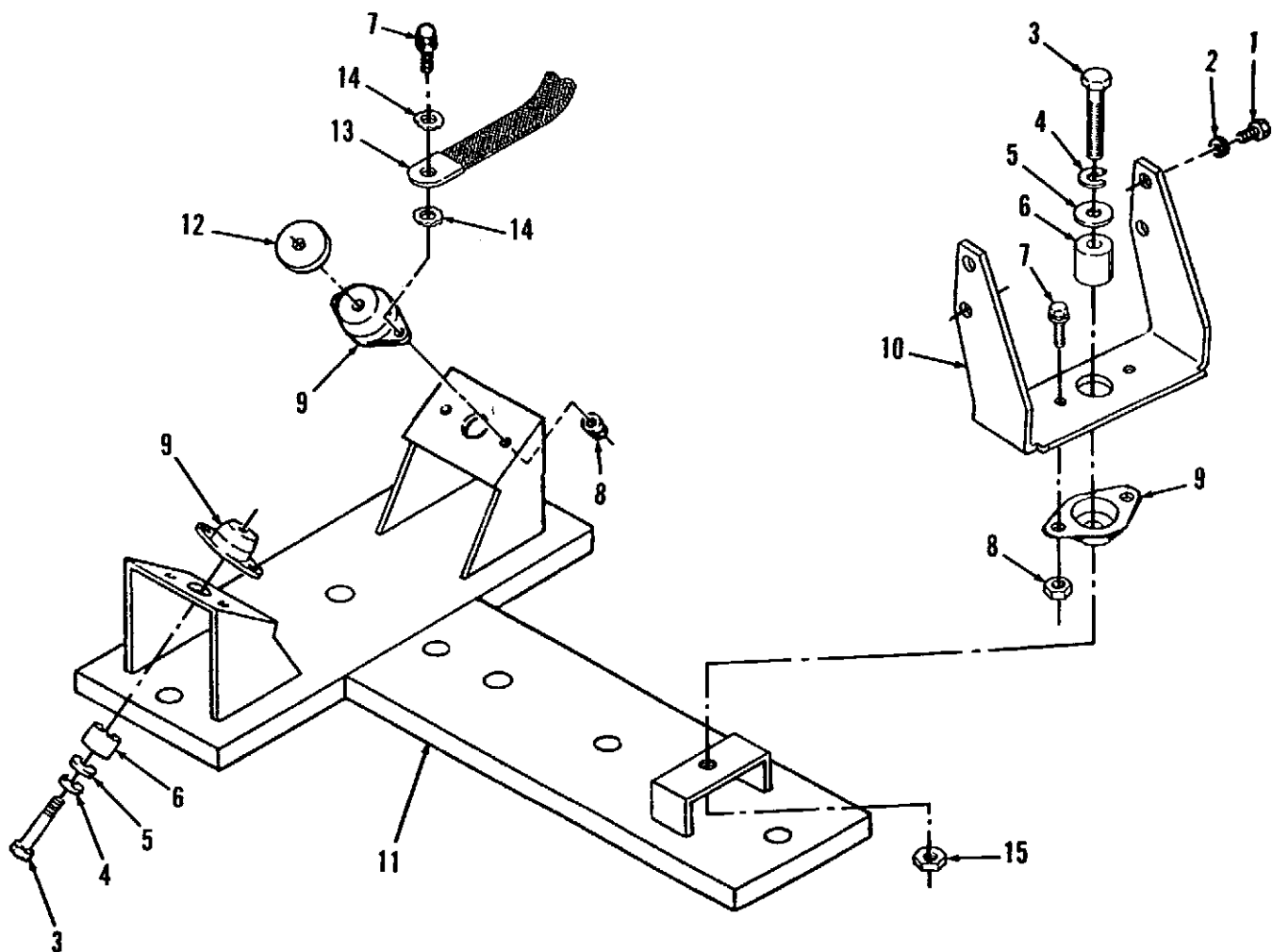
+ - Parts Included in Exciter Rotor Assembly.

Drip Pan and Mounts (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0585	2	Screw, Cap - Hex Head (M10 x 1.25 x 20mm)	9	870-0257	6	Nut, Self-locking - Hex Washer Head (5/16-18)
2	850-2010	4	Washer, Lock - Spring (M10)	10	402-0544	3	Mount, Vibration
3	800-0573	3	Screw, Cap - Hex Head (3/8-16 x 2-1/4")	11	403-2257	1	Frame ("I" Shape)
4	850-0050	3	Washer, Lock - Spring (3/8")	12	815-0600	2	Screw, Cap - Hex Head (M10 x 1.25 x 25mm)
5	526-0077	3	Washer, Flat (3/8")	13	526-0172	2	Washer, Flat (1/2" ID x 2-1/4" OD x 1/4" THK)
6	403-2213	3	Spacer, Sleeve	14	337-0049	1	Strap, Bonding
7	403-2194	1	Support, Engine (Used Through February 1984)	15	856-0008	2	Washer, Lock - EIT (5/16")
8	821-0016	4	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")	16	870-0138	3	Nut, Self-locking (3/8-16)
8A	403-2267	2	Plate Assy, Mounting - Shock (Used From Feb. 1984 to Feb. 1988)				

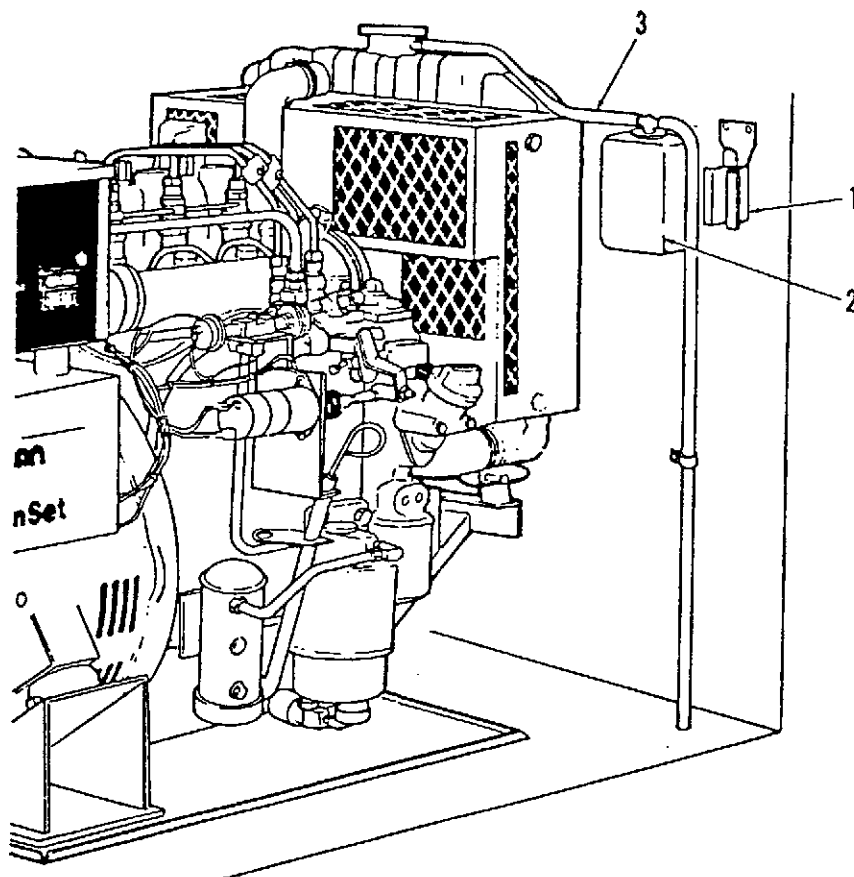
Drip Pan and Mounts (Spec B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0585	2	Screw, Cap - Hex Head (M10 x 1.25 x 20mm)
2	850-2010	2	Washer, Lock - Spring (M10)
3	800-0573	3	Screw, Cap - Hex Head (3/8-16 x 2-1/4")
4	850-0050	3	Washer, Lock - Spring (3/8")
5	526-0077	3	Washer, Flat (3/8")
6	403-2213	3	Spacer, Sleeve
7	821-0016	6	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	870-0257	6	Nut, Self-locking - Hex Washer Head (5/16-18)
9	402-0544	3	Mount, Vibration
10	403-2711	1	Support, Engine
11	403-2713	1	Frame ("T" Shape)
12	526-0172	2	Washer, Flat (1/2" ID x 2-1/4" OD x 1/4" THK)
13	337-0049	1	Strap, Bonding
14	856-0008	2	Washer, Lock - EIT (5/16")
15	870-0138	1	Nut, Self Lock (3/8-16)

Coolant Tank



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-2780	1	Bracket
2	130-2779	1	Tank, Recovery

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3		1	Hose, Overflow (Comes with Recovery Tank)