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MCGRAW-EDISON

Onan

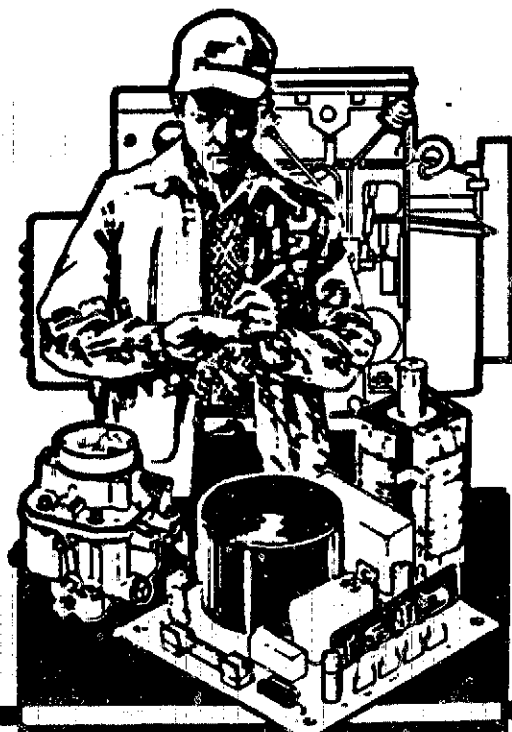
Parts Manual

MDKD

Marine GenSet

THIS PARTS MANUAL COVERS
THE FOLLOWING MODELS:

6.5 MDKD-53CR/99999A
6.5 MDKD-518R/99999A
8.0 MDKD-3CR/99999A
8.0 MDKD-18R/99999A



Onan Service Parts

981-0225

9-83 (SPEC 99999A Only)

Cummins Power Generation
Printed in U.S.A.

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GENERAL INFORMATION

INSTRUCTIONS FOR ORDERING REPAIR PARTS

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest Authorized Onan Parts and Service Center.

To avoid errors or delay in filling your parts order, please furnish all information requested.

Always refer to the nameplate on your unit.

1. Always give the MODEL, SPEC NO. and SERIAL NO.

McGRAW-EDISON

Onan

MODEL AND SPEC NO.

SERIAL NO.

RM-1149

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

2. Do not order by reference number; always use part number and description.
3. Give the part number, description and quantity needed of each item. If an older part cannot be identified, return the part prepaid to your dealer or nearest Onan Parts and Service Center. Print your name and address plainly on the package. Write a letter to the same address stating the reason for returning the part.
4. State definite shipping instructions. Any claim for loss or damage to your unit in transit should be filed promptly against the transportation company making the delivery. Shipments are complete unless the packing list indicates items are back ordered.

INDEX

GENERAL INFORMATION	A2
DATE TABLE	A4
INTRODUCTION	A4
REPLACEMENT ENGINE	A5
AIR SILENCER	A6
ALTERNATOR	A7
ALTERNATOR - EXPLODED VIEW	C8
AQUALIFT EXHAUST SYSTEM (OPTIONAL EQUIPMENT)	E1
BEARING HOLDERS - MAIN	C3
BREATHER HOSE & FITTINGS	B6
BELT, DRIVE (FAN)	A7
BELT GUARD	A7
CAMSHAFT	C1
CIRCUIT BREAKER (OPTIONAL EQUIPMENT)	D14
CONTROL BOX ASSEMBLY	D10
CONTROL, SET - SINGLE PHASE	D2
CONTROL, SET - THREE PHASE	D4
CONTROL, SET - SINGLE PHASE WITH DC GAUGES (OPTIONAL EQUIPMENT)	D6
CONTROL, SET - THREE PHASE WITH DC GAUGES (OPTIONAL EQUIPMENT)	D8
COOLING SYSTEM WITH HEAT EXCHANGER	A12
COOLING SYSTEM - THERMOSTAT & HOUSING	A14
COVER, VALVE	B6
CRANKSHAFT	C4
CYLINDER BLOCK	C6
CYLINDER HEAD	B8
DIPSTICK	B9
DRIP PAN	C7
FUEL FILTER/SEPARATOR - EXPLODED VIEW	C12
FUEL SYSTEM - FILTER & PUMP	A10
FUEL SYSTEM - INJECTION PUMP	B12
FLYWHEEL	A9
GASKET KIT	E4
GEARCASE	B11
GENERATOR ASSEMBLY	D12
GLOW PLUGS	B3
GOVERNOR	C2
INJECTION NOZZLES	B3
INJECTION NOZZLE - EXPLODED VIEW	C9
INJECTION PUMP	B12
INJECTION PUMP - EXPLODED VIEW	C10
MANIFOLD - INLET/EXHAUST	B4
MOUNT, VIBRATION	C7
OIL DRAIN HARDWARE	B9
OIL FILTER	B11
OIL PAN	B9
OIL PUMP	C6
PUMP, ENGINE WATER	B1
PUMP, RAW WATER	A12
PUMP, RAW WATER - EXPLODED VIEW	D1
PISTON ASSEMBLY	C4
ROCKER ARM ASSEMBLY	B7
SENDER - HI WATER TEMPERATURE	B8
SENDER - OIL PRESSURE	B2
SPEED CONTROL ASSEMBLY	B10
SOUND SHIELD ASSEMBLY	E2
SOUND SHIELD KIT	E4
STARTER	A9
STARTER - EXPLODED VIEW	C11
STOP LEVER ASSEMBLY	B14
STOP SOLENOID	B14
SWITCH - OVERSPEED	A8
SWITCH - HI WATER TEMPERATURE	A14
SWITCHES - OIL PRESSURE	B2
THERMOSTAT	A14
VOLTAGE REGULATOR	C14
WIRING HARNESS - ENGINE TO CONTROL	C14

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 sides of the Set are determined by FACING the engine end (Front) of the Set.

SET DATA TABLE

MODEL IDENTIFICATION	RATING	MODEL IDENTIFICATION	RATING
6.5HDKD- */#0	6,500 WATTS	8.0HDKD- */#0	8,000 WATTS

ELECTRICAL DATA TABLE

* VOLTAGE CODES	VOLTS	HERTZ	WIRE	PHASE	NOTES
3C	120/240	60	4	1	+
1B	120, 120/240	60	12	1	+
53C	110/220, 115/230, 120/240	50	4	1	+
51B	110, 115, 120, 110/220, 115/230, 120/240	50	12	1	+
1B	120/208, 120/240, 127/220, 139/240, 240/416, 254/440, 277/480	60	12	3	+
51B	110/190, 110/220, 115/200, 115/230, 120/208, 120/240, 127/220, 220/380, 230/400, 240/416, 254/440	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 reconnectable, refer to Operator's manual for wiring data.

NOTICE!

ITEMS REFERENCED AS OPTIONAL INDICATE PART IS FACTORY INSTALLED AND MAY NOT BE APPLICABLE TO ALL MODELS. FOR FIELD CONVERSIONS ADDITIONAL PARTS ARE USUALLY REQUIRED.

REPLACEMENT ENGINE

ONAN PART NO.	Engine, Replacement
----------------------	----------------------------

185-2420	Standard, MDKC, DKC - 60/50 Hz Sets
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185-2425	Standard, MDKD, DKD - 60 Hz Sets
----------	----------------------------------

185-2426	Standard, MDKD, DKD - 50 Hz Sets
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Includes: Complete Cylinder Block, Flywheel, Generator Adapter, Governor, Inlet Manifold, Oil Filter, Oil Pan, Water Pump.

Excludes: Air Cleaner, Alternator, Alternator Mounting Brackets, Engine Mounting Brackets, Exhaust Manifold, Fan Belt, Fuel Filter, Fuel Pump, Heat Exchanger, Oil Pressure Sender, Oil Pressure Switches, Radiator, Starter, Water Temperature Sender.

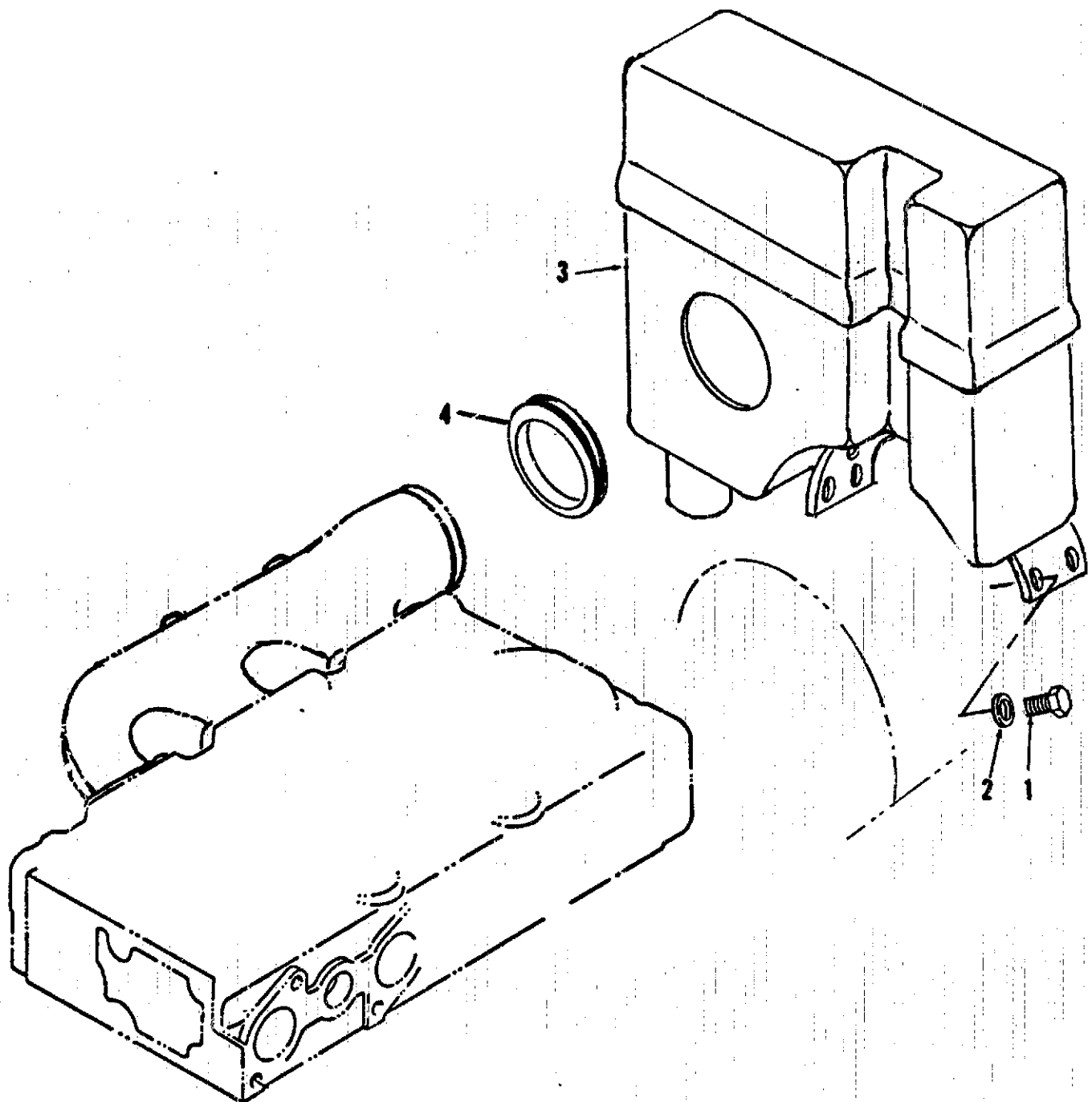
ENGINE REPLACEMENT PARTS

All engine replacement parts can be ordered using this Parts Manual.

When ordering engine parts, refer to the nameplate and supply the Model, Spec and Serial Numbers and other available information.

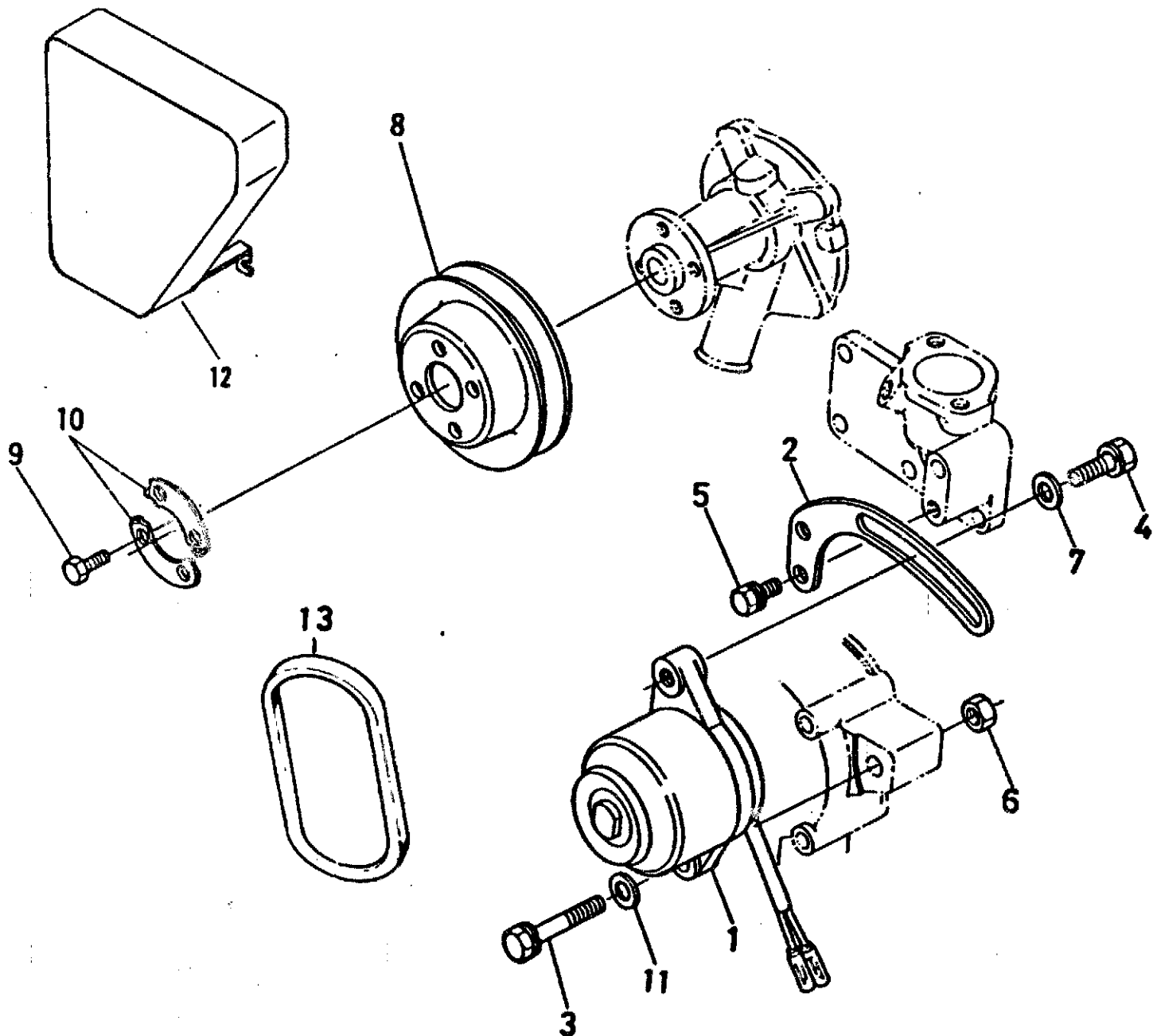
Contact your nearest Onan Distributor for assistance in ordering parts.

AIR SILENCER



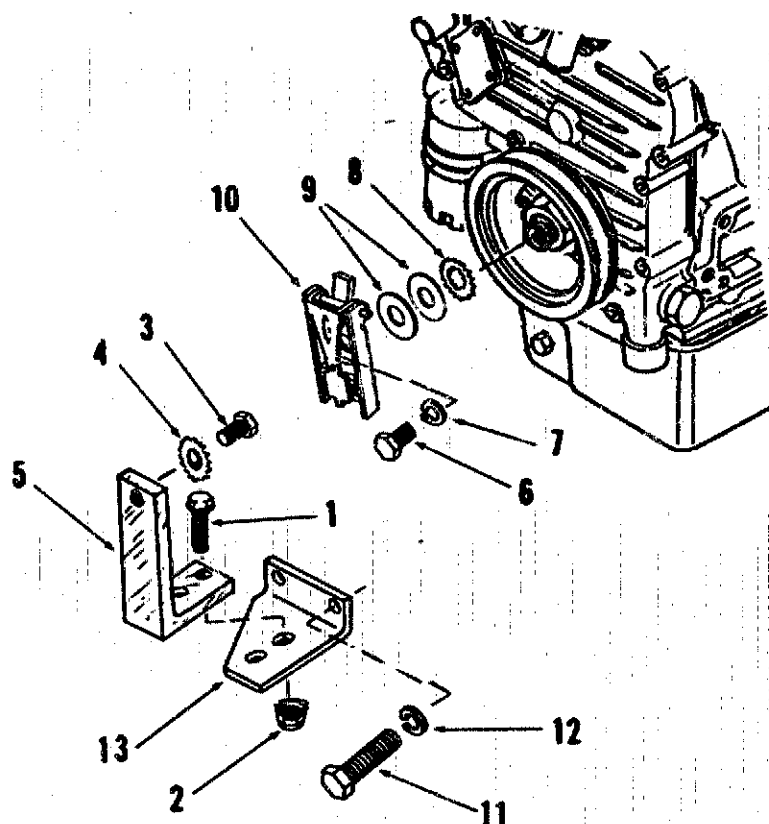
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0315	4	Screw, Tapping - Hex Washer Head (1/4-20 x 1/2") or use-
	821-0010	4	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
2	526-0018	4	Washer, Flat (17/64"ID x 5/8"OD x 1/16"THK)
3	140-1896	1	Air Silencer
4	508-0051	1	Grommet (2-3/8"OD x 1-3/4"ID)

ALTERNATOR



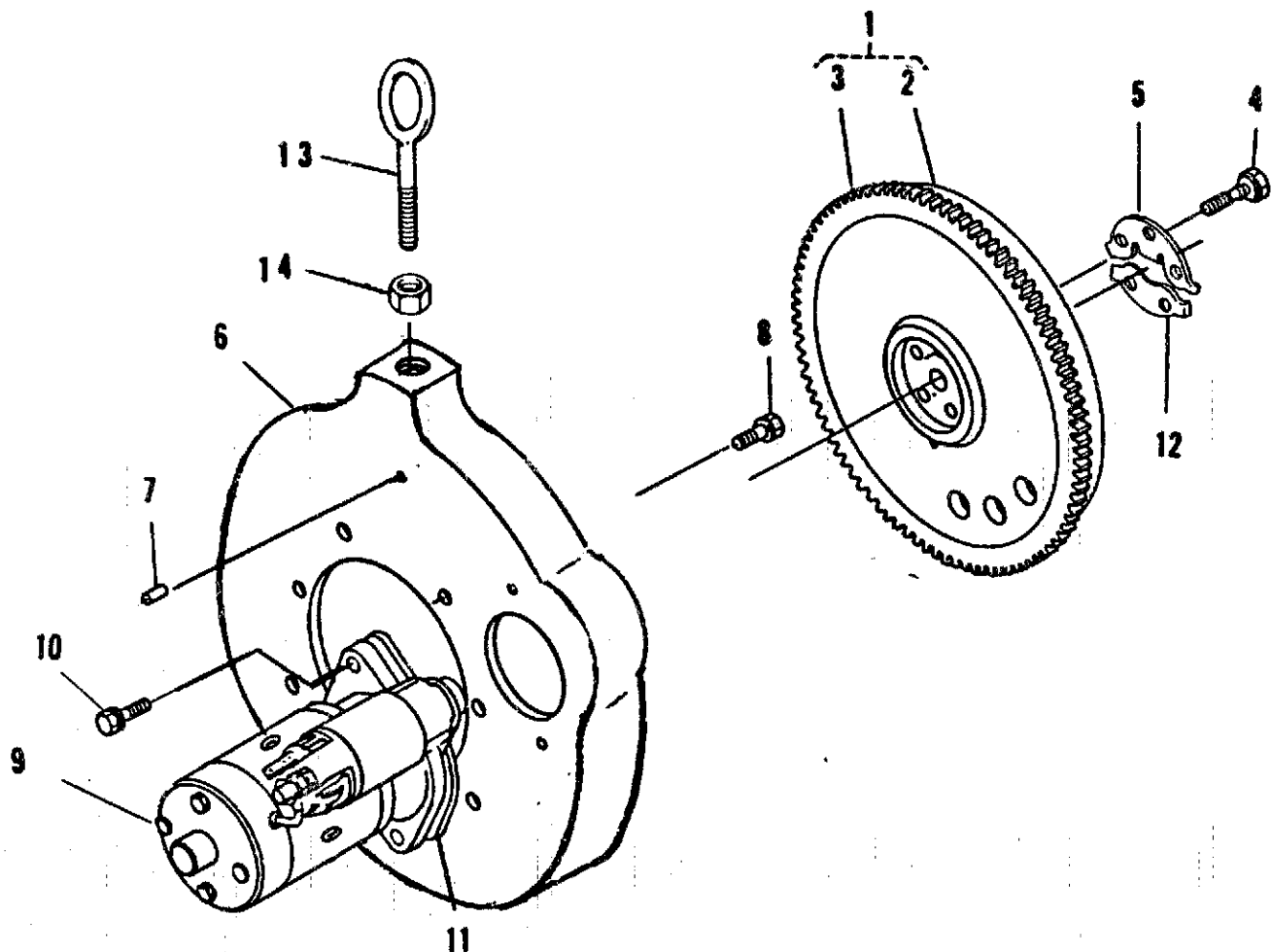
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2266	1	Alternator (12VDC) See Separate Figure for Parts)
2	185-2273	1	Bracket, Adjusting
3	185-2405	1	Screw, Cap - Hex Head with Lock-washer (M8 x 1.25 x 60MM)
4	185-2403	1	Screw, Cap - Hex Head with Lock-washer (M8 x 1.25 x 25MM)
5	185-2388	1	Screw, Cap - Hex Head with Lock-washer (M6 x 1 x 16MM)
6	750-1006	1	Nut, Hex (M8 x 1.25)
7	185-2377	1	Washer, Flat (M8)
8	185-2247	1	Pulley
9	718-1017	4	Screw, Cap - Hex Head (M6 x 1 x 10MM)
10	185-2346	2	Locking Plate - Bolt/Nut
11	185-2378	1	Washer, Flat (M8)
12	130-2375	1	Guard, Belt
13	185-2275	1	Belt, Drive

OVERSPEED SWITCH



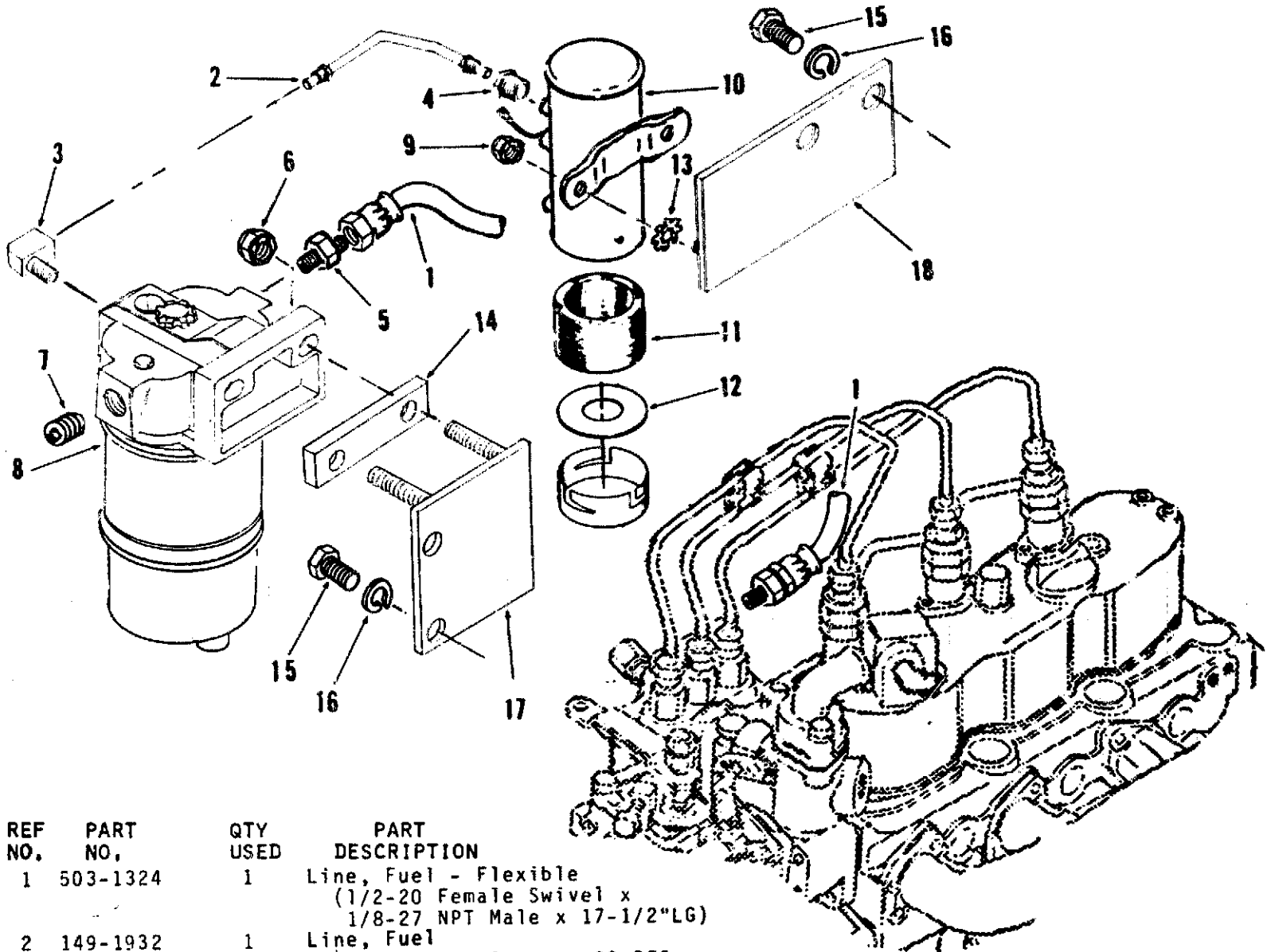
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0015	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 3/4")
2	870-0212	2	Nut, Self-locking - Hex Washer Head (1/4-20)
3	150-2011	1	Point, Contact - Electrical (1/4-20 x 3/8")
4	853-0013	1	Washer, Lock - ET (1/4")
5	150-2009	1	Bracket, Support - Overspeed Contact - (Nonmetallic)
6	800-2057	1	Screw, Cap - Hex Head (M8 x 1.25 x 20MM)
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 (M5)
13	150-2010	1	Bracket, Support - Overspeed Switch

FLYWHEEL & STARTER



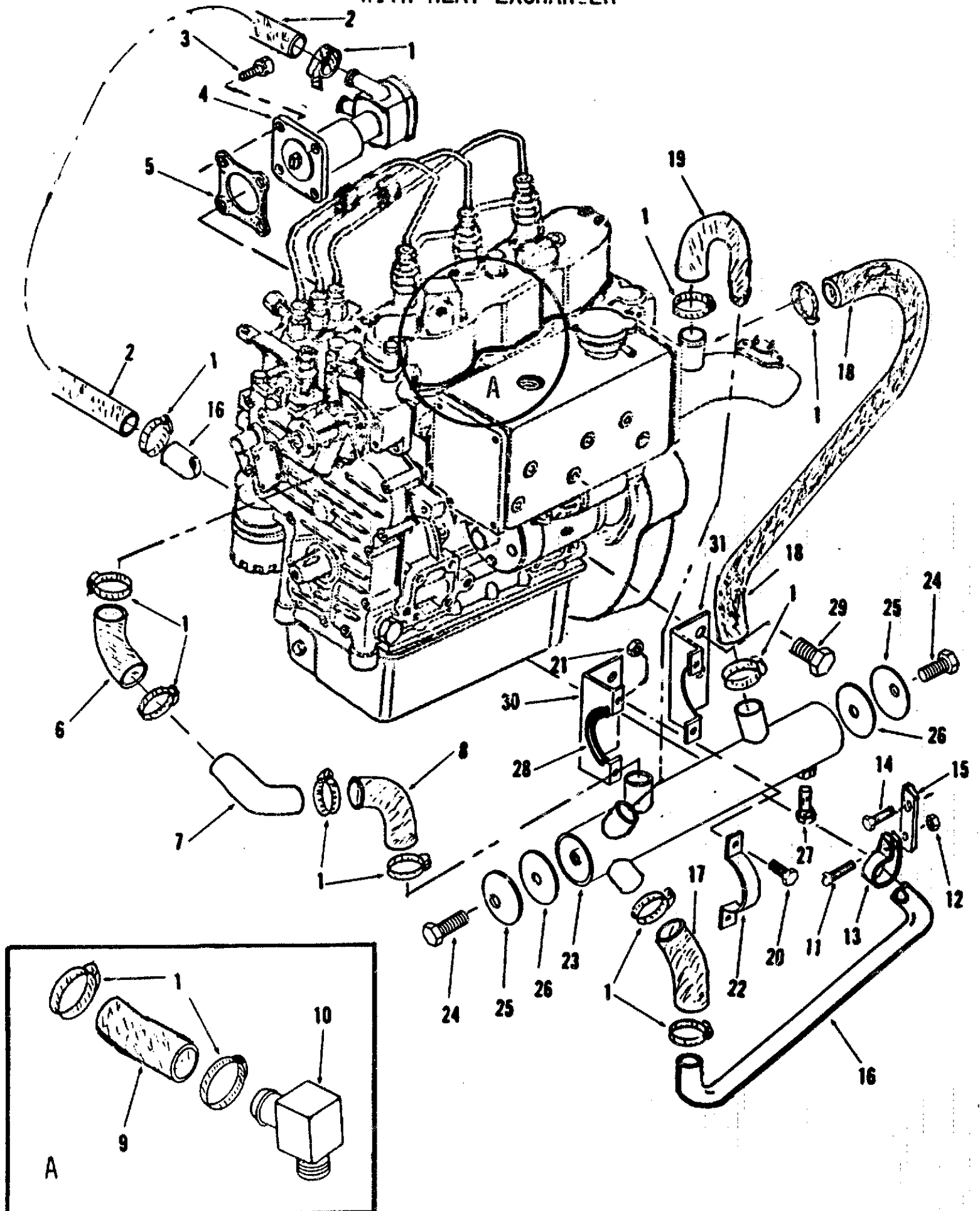
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2308	1	Flywheel with Ring Gear
2	NA		Flywheel
3	185-2170	1	Gear, Ring
4	185-2301	5	Bolt, Hex
5	185-2218	1	Locking Plate - Bolt/Nut
6	185-2417	1	Adapter, Generator
7	775-0072	1	Pin, Straight, Headless
8	185-2178	8	Bolt, Hex with Lockwasher
9	185-2116	1	Starter (12VDC) See separate Figure for Replacement Parts.
10	185-2404	2	Screw, Cap - Hex Head with Lockwasher (M8 x 1.25 x 28MM)
11	185-2314	1	Gasket
12	185-2219	1	Locking Plate - Bolt/Nut
13	403-2214	1	Bolt, Eye
14	862-0003	1	Nut, Hex (3/8-16)

FUEL SYSTEM - FILTER & PUMP



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-1324	1	Line, Fuel - Flexible (1/2-20 Female Swivel x 1/8-27 NPT Male x 17-1/2"LG)
2	149-1932	1	Line, Fuel
3	502-0041	1	Elbow, Pipe - Street, 90 DEG, Brass (1/4 NPT Male x 7/16-24 Female)
4	502-0003	1	Adapter, Pipe - Hex (1/8 NPT Male x 7/16-24 Female)
5	502-0166	1	Adapter, Pipe - Hex (1/4 NPT Male x 1/2-20 Male)
6	870-0257	2	Nut, Self-locking - Hex Washer Head (5/16-18)
7	505-0180	1	Plug, Pipe - Square Socket Drive (1/4 NPT)
8		REF	Filter/Separator - Fuel (Pressure Type (See Separate Figure for Parts)
9	870-0212	2	Nut, Self-locking - Hex Washer Head (1/4-20)
10	149-1828	1	Pump, Fuel - Electric (12VDC) - Includes Filter & Gasket)
11	149-1445	1	Filter, Fuel Pump
12	149-1446	1	Gasket, Fuel Pump Cover
13	856-0006	2	Washer, Lock - EIT (7/16)
14	149-1922	1	Spacer - Fuel Filter Mounting
15	815-0586	4	Screw, Cap - Hex Head (M10 x 1.25 x 16MM)
16	850-2010	4	Washer, Lock - Spring (M10)
17	149-1920	1	Plate, Mounting - Fuel Filter
18	149-1921	1	Plate, Mounting - Fuel Pump

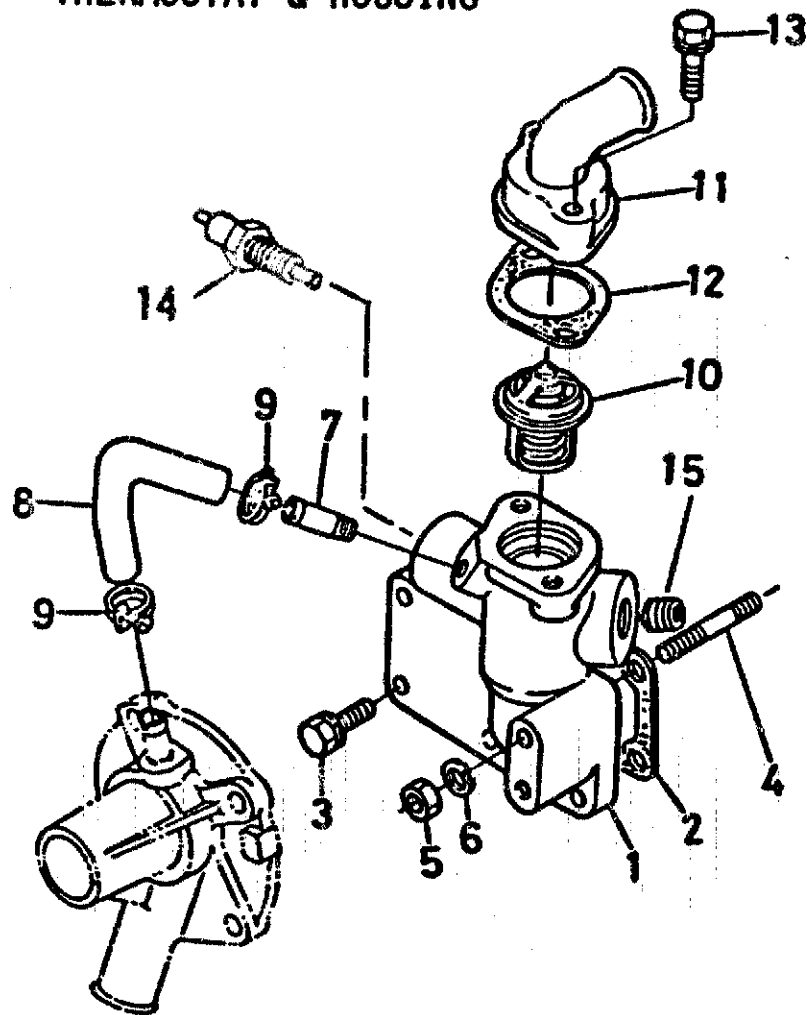
COOLING SYSTEM WITH HEAT EXCHANGER



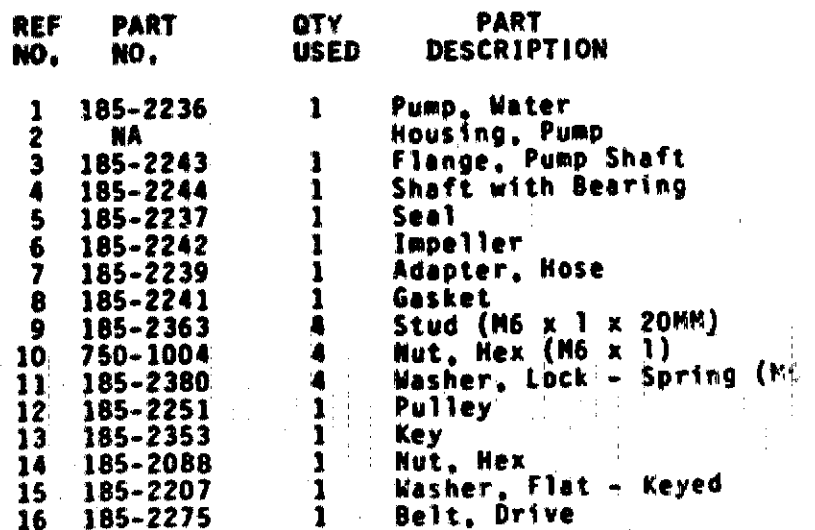
COOLING SYSTEM WITH HEAT EXCHANGER

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0398	14	Clamp, Hose
2	503-1284	1	Hose, Rubber - Preformed
3	185-2400	4	Screw, Cap - Hex Head With Lockwasher (M8 x 1.25 x 18MM)
4	132-0277	1	Pump, Water (See separate figure for parts)
5	185-2120	1	Gasket
6	503-1267	1	Hose, Rubber - Preformed
7	130-2372	1	Tube, Water - Preformed
8	503-1269	1	Hose, Rubber - Preformed
9	503-1270	1	Hose, Rubber - Preformed
10	502-0878	1	Adapter, Pipe to Hose (1-1/2" NPT x 1" Hose)
11	812-0098	2	Screw, Machine - Round Head (#10-24 x 3/8")
12	870-0236	2	Nut, Self-locking - Hex Washer Head (#10-24)
13	332-1024	2	Clamp, Loop
14	821-0001	2	Screw, Self-locking - Hex Washer Head (#10-24 x 3/8")
15	130-2389	2	Bracket
16	130-2371	1	Tube, Water - Preformed
17	503-1314	1	Hose, Rubber - Preformed
18	503-1163	1	Hose, Rubber
19	503-1265	1	Hose, Rubber - Preformed
20	821-0010	4	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
21	870-0212	4	Nut, Self-locking - Hex Washer Head (1/4-20)
22	503-1283	2	Clamp, Heat Exchanger
23	130-2343	1	Heat Exchanger (Includes items 24 thru 27)
24	815-0300	2	Screw, Cap - Hex Head, Brass (5/16-18 x 1/2")
25	130-1031	2	Cover, End
26	130-0959	2	Gasket
27	130-1341	1	Pencil, Zinc
28	508-1025	2	Channel, Rubber
29	815-0586	4	Screw, Cap - Hex Head (M10 x 1.25 x 16MM)
30	130-2331	1	Bracket, Mounting - Heat Exchanger
31	130-2332	1	Bracket, Mounting - Heat Exchanger

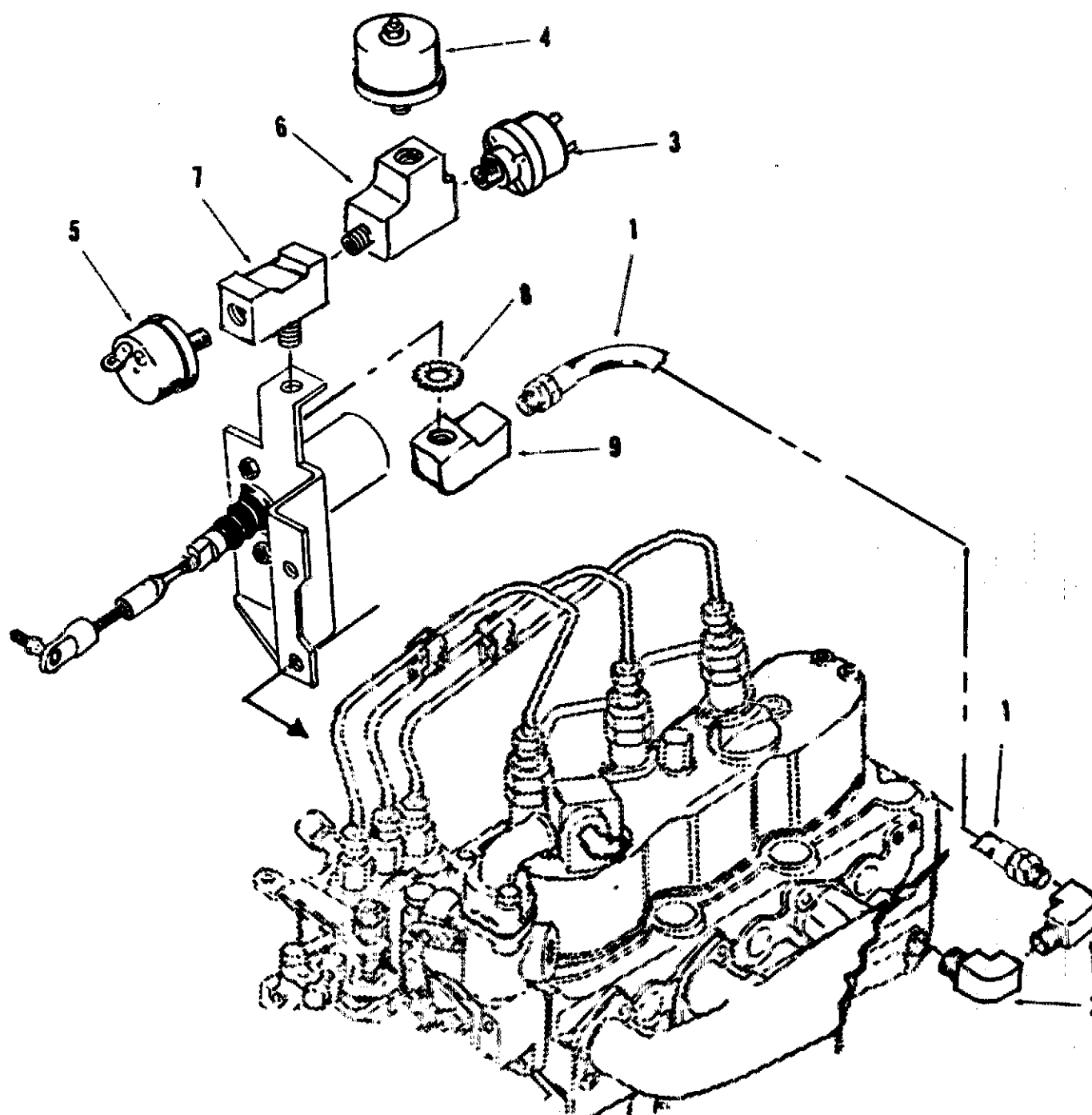
COOLING SYSTEM - THERMOSTAT & HOUSING



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2311	1	Housing, Thermostat
2	185-2175	1	Gasket
3	185-2388	5	Screw, Cap - Hex Head with Lock-washer (M6 x 1 x 16MM)
4	185-2360	1	Stud (M6 x 1 x 55MM)
5	750-1004	1	Nut, Hex (M6 x 1)
6	185-2380	1	Washer, Lock - Spring (M6)
7	185-2239	1	Adapter, Hose
8	185-2300	1	Hose, Rubber - Preformed
9	185-2240	2	Clamp, Hose
10	185-2235	1	Thermostat
11	185-2312	1	Cover, Thermostat
12	185-2238	1	Gasket
13	185-2393	2	Screw, Cap - Hex Head with Lock-washer (M6 x 1 x 35MM)
14	309-0437	1	Switch, Thermostatic - High Engine Temperature Shutdown (S2)
15	505-0266	1	Plug, Pipe - Square Socket Drive (3/8 NPT)

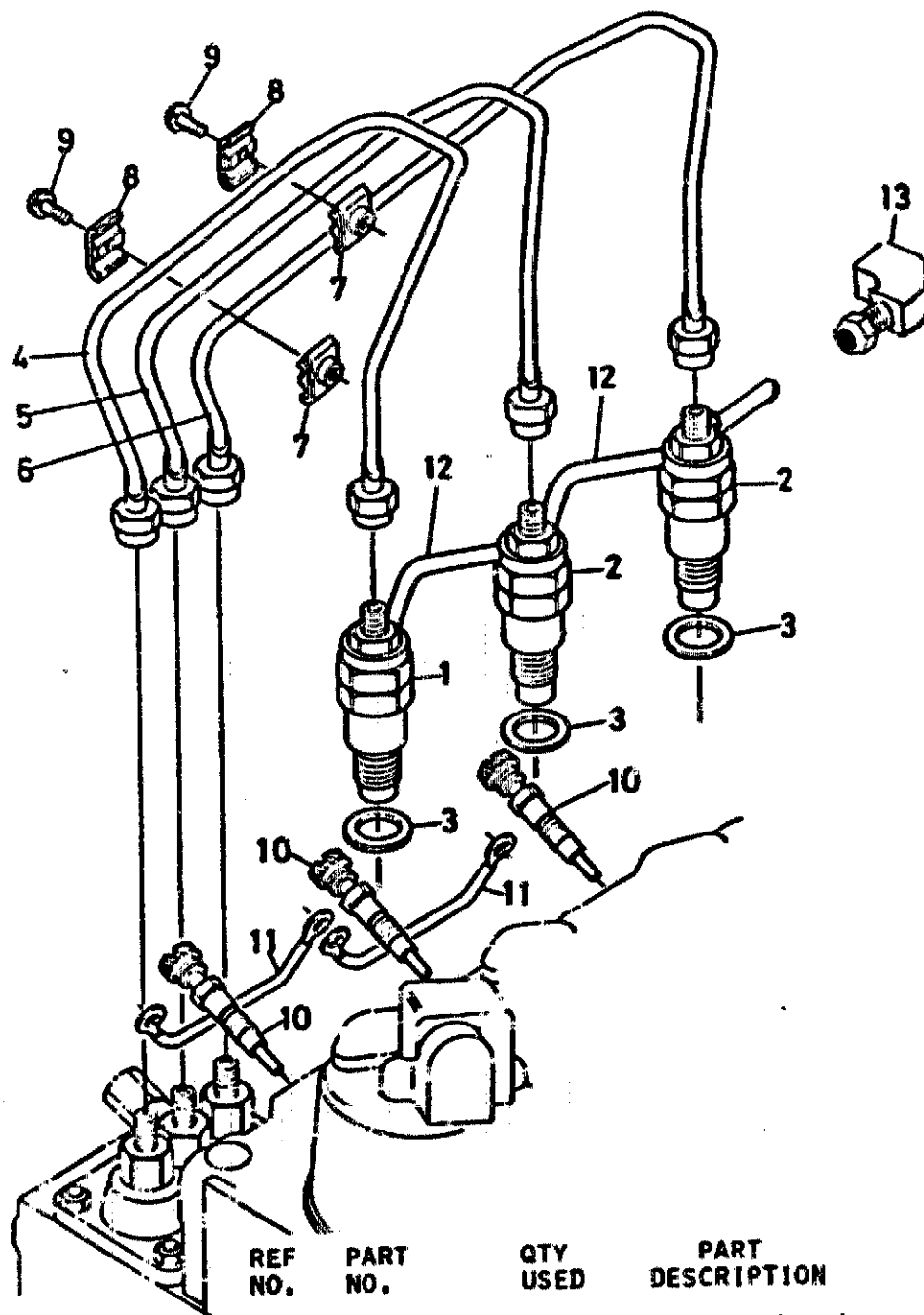
$$\begin{array}{l} 14 \overline{) 216} \\ \underline{28} \\ 36 \\ \underline{35} \\ 10 \\ \underline{9} \\ 10 \end{array}$$


OIL PRESSURE SWITCHES



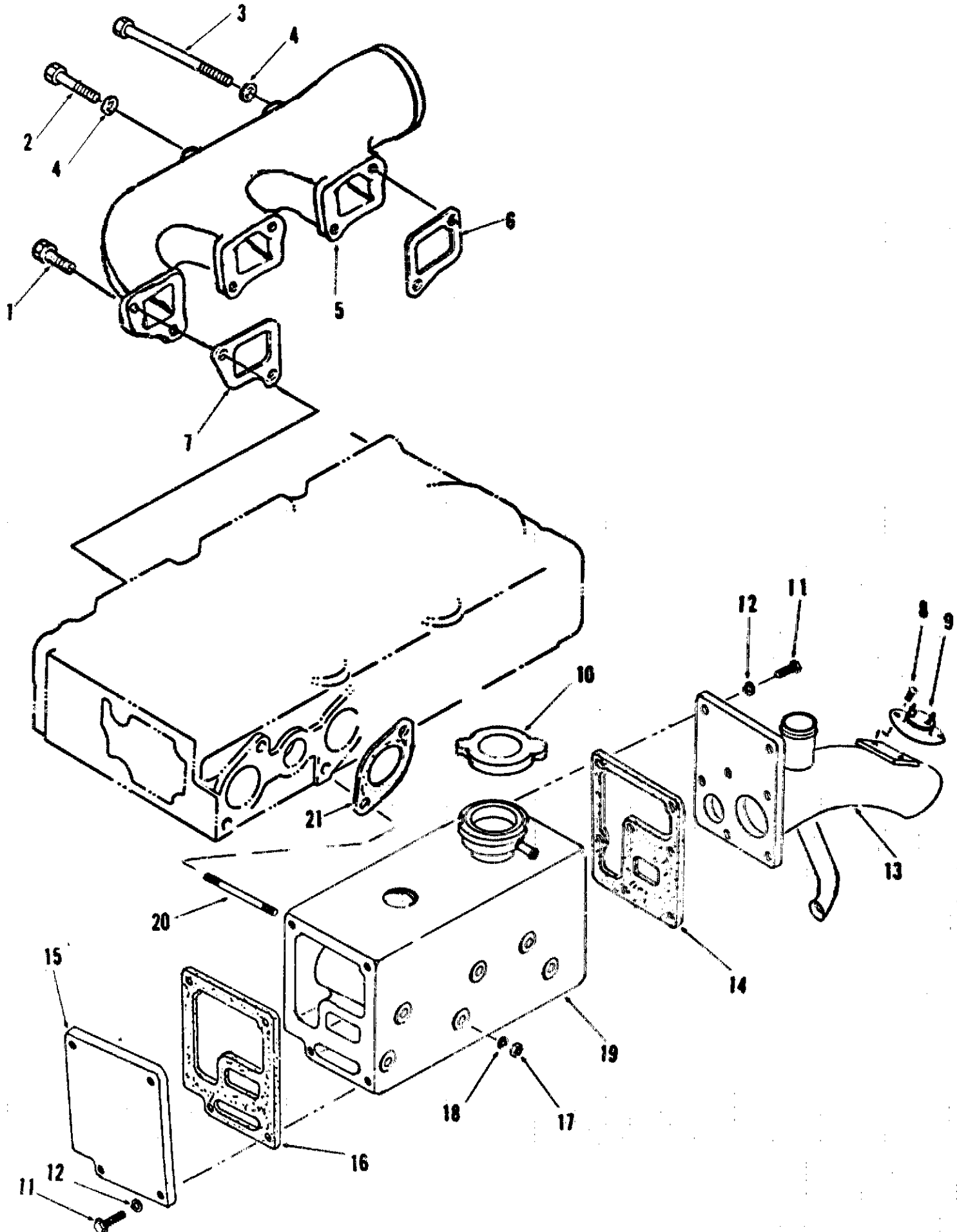
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0005	1	Line, Fuel - Flexible (1/8 NPT Male x 7/16-20 SAE 45 DEG Male Swivel x 18-1/2"LG)
2	505-0049	2	Elbow, Pipe - Street, 90 DEG (1/8 NPT)
3	309-0159	1	Switch, Pressure (PreAlarm)(S3)
4	193-0244	1	Sender, Oil Pressure (E1)
5	309-0169	1	Switch, Pressure (Shutdown) (S1)
6	502-0058	1	Tee, Pipe (1/8 NPT)
7	502-0057	1	Tee, Pipe (1/8 NPT)
8	856-0012	1	Washer, Lock - EIT (7/16")
9	502-0005	1	Elbow, Pipe - 90 DEG (1/8 NPT Female x 7/16-20 SAE Female)

GLOW PLUG & INJECTION NOZZLES



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2191	1	Nozzle, Injection - Fuel (See Separate Figure for Parts)
2	185-2192	2	Nozzle, Injection - Fuel (See Separate Figure for Parts)
3	185-2294	3	Gasket
4	185-2159	1	Line, Fuel - Injection
5	185-2160	1	Line, Fuel - Injection
6	185-2224	1	Line, Fuel - Injection
7	185-2344	2	Clamp
8	185-2345	2	Clamp
9	185-2385	2	Screw, Machine - Pan Head with Lockwasher (M5 x .8 x 20MM)
10	185-2289	3	Plug, Glow (12VDC)
11	185-2172	2	Lead, Electrical
12	185-2303	2	Tube, Fuel - Overflow
13	502-0886	1	Elbow, Tube to Pipe, 90 DEG (3/16" OD Tube x 1/8 NPT)

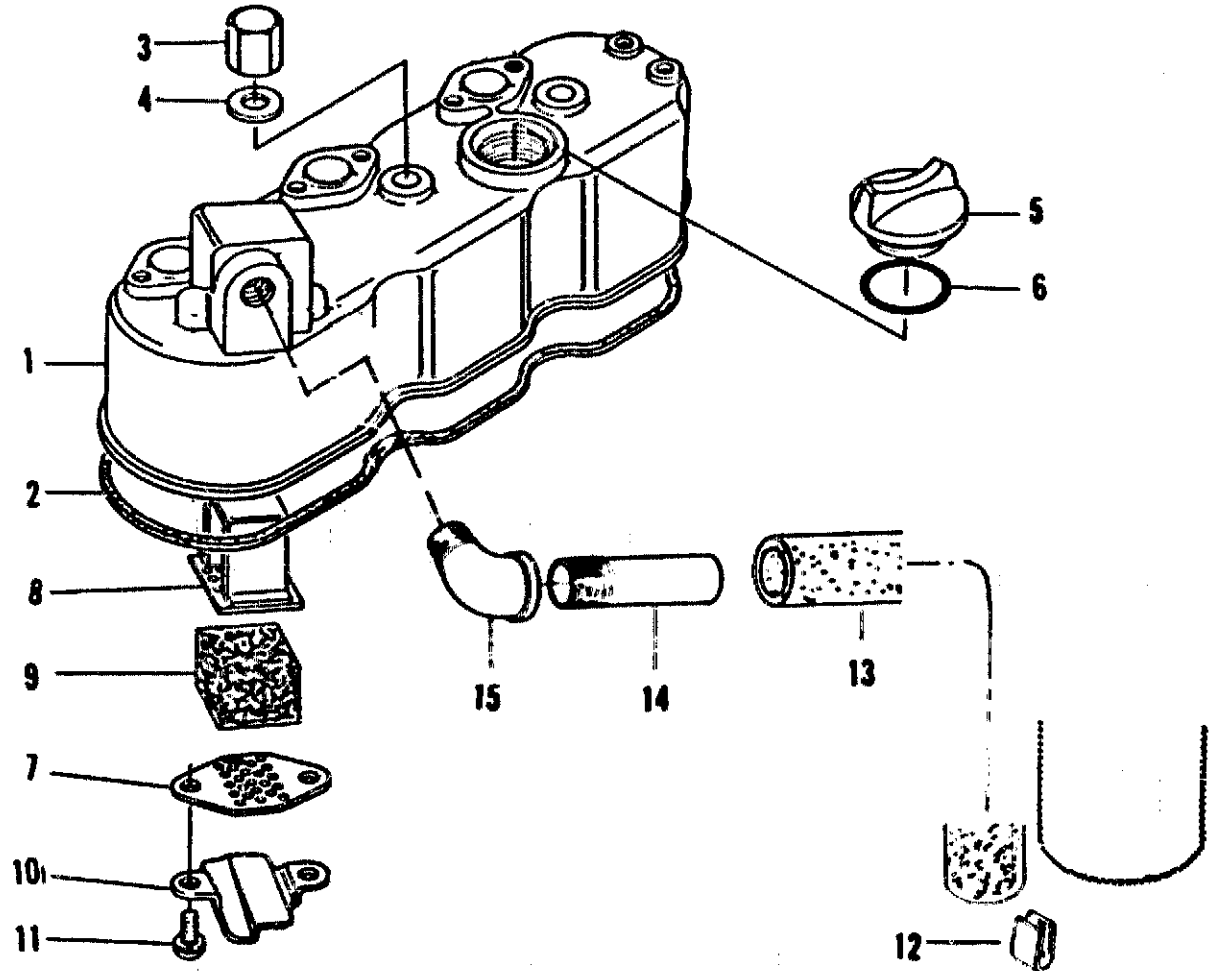
INLET/EXHAUST MANIFOLD



INLET/EXHAUST MANIFOLD

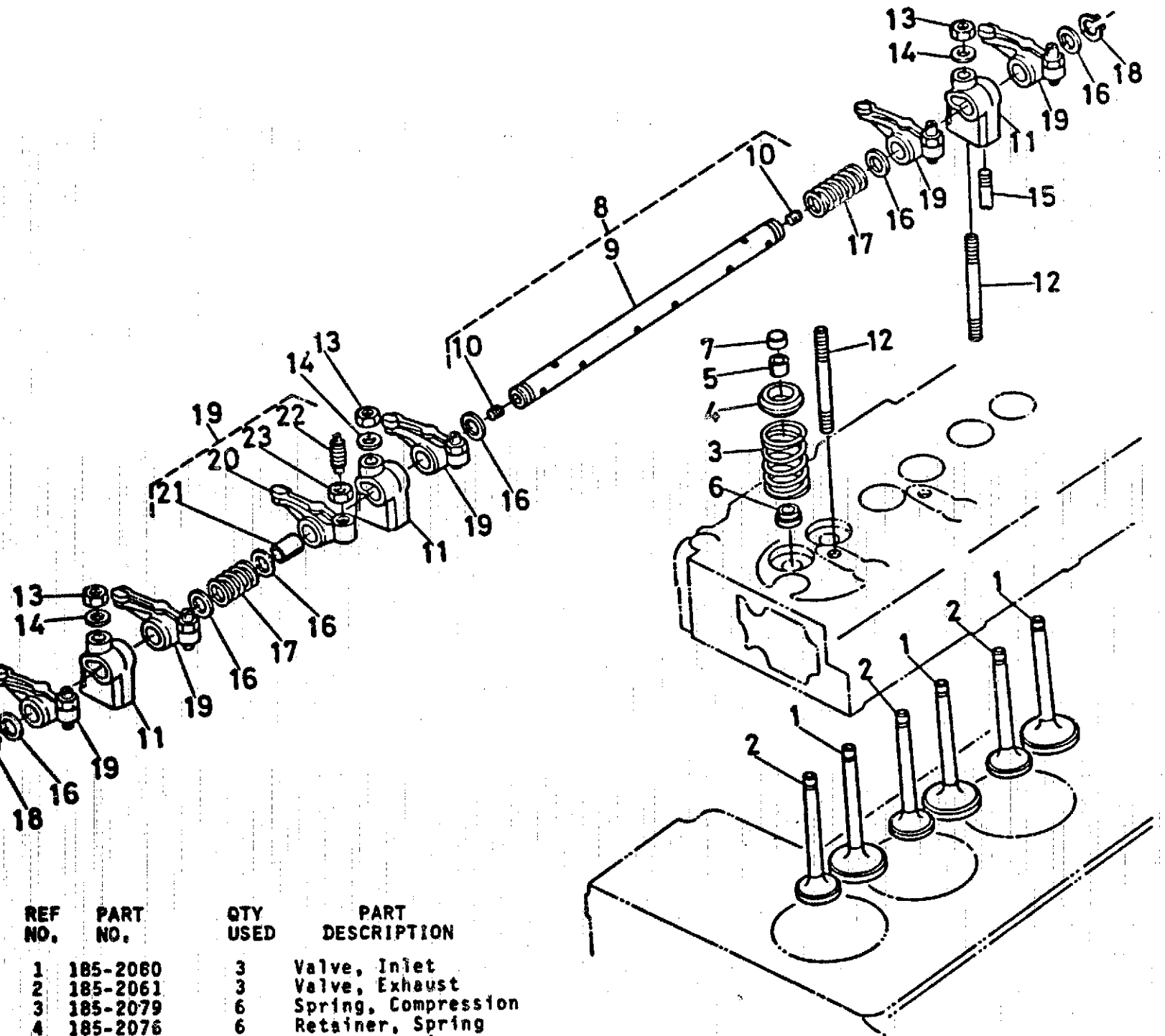
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2390	4	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 20MM)
2	185-2253	1	Bolt, Hex
3	185-2225	1	Bolt, Hex
4	850-2006	2	Washer, Lock - Spring (M6)
5	185-2307	1	Manifold, Inlet
6	185-2129	1	Gasket
7	185-2130	2	Gasket
8	815-0504	2	Screw, Tapping - Hex Washer Head (#6-32 x 3/8")
9	309-0295	1	Switch, Thermostatic - High Exhaust Temperature
10	130-2344	1	Cap, Radiator (7Lb)
11	821-0015	8	Screw, Self-locking - Hex Washer Head (1/4-20 x 3/4")
12	850-0040	8	Washer, Lock - Spring (1/4")
13	155-2003	1	Outlet Tube, Exhaust
14	154-2455	1	Gasket
15	154-2459	1	End Plate
16	154-2456	1	Gasket
17	860-2007	6	Nut, Hex (M6)
18	850-2006	6	Washer, Lock - Spring (M6)
19	154-2475	1	Manifold, Exhaust - Water Cooled
20	520-2036	6	Stud
21	185-2131	3	Gasket

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	Cap Nut
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
10	185-2288	1	Shield, Breather
11	185-2384	2	Screw, Machine - Pan Hd with Lockwasher (M5 x .5 x 10MM)
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 (1/4NPT x 1-1/2\"LG)
15	505-0011	1	Elbow, Pipe - Street, 90 DEG (1/4NPT)

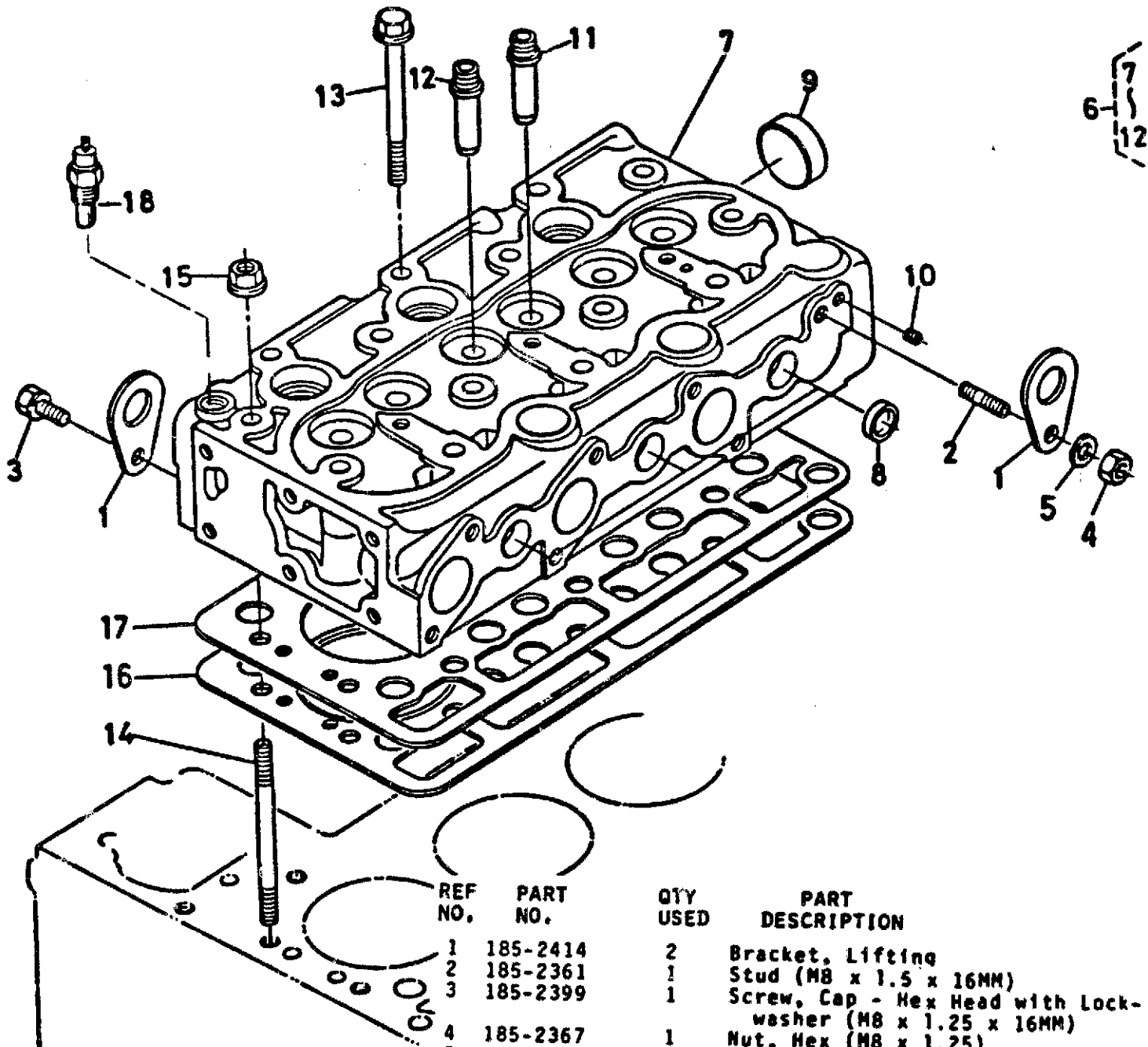
ROCKER ARM ASSEMBLY



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2060	3	Valve, Inlet
2	185-2061	3	Valve, Exhaust
3	185-2079	6	Spring, Compression
4	185-2076	6	Retainer, Spring
5	185-2077	12	Collet, Spring
6	185-2078	6	Seal, Oil - Valve Stem
7	185-2080	6	Cap, Valve Stem
8	185-2215	1	Shaft, Rocker Arm
9	NA		Shaft
10	185-2228	2	Setscrew
11	185-2216	3	Bracket, Support
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

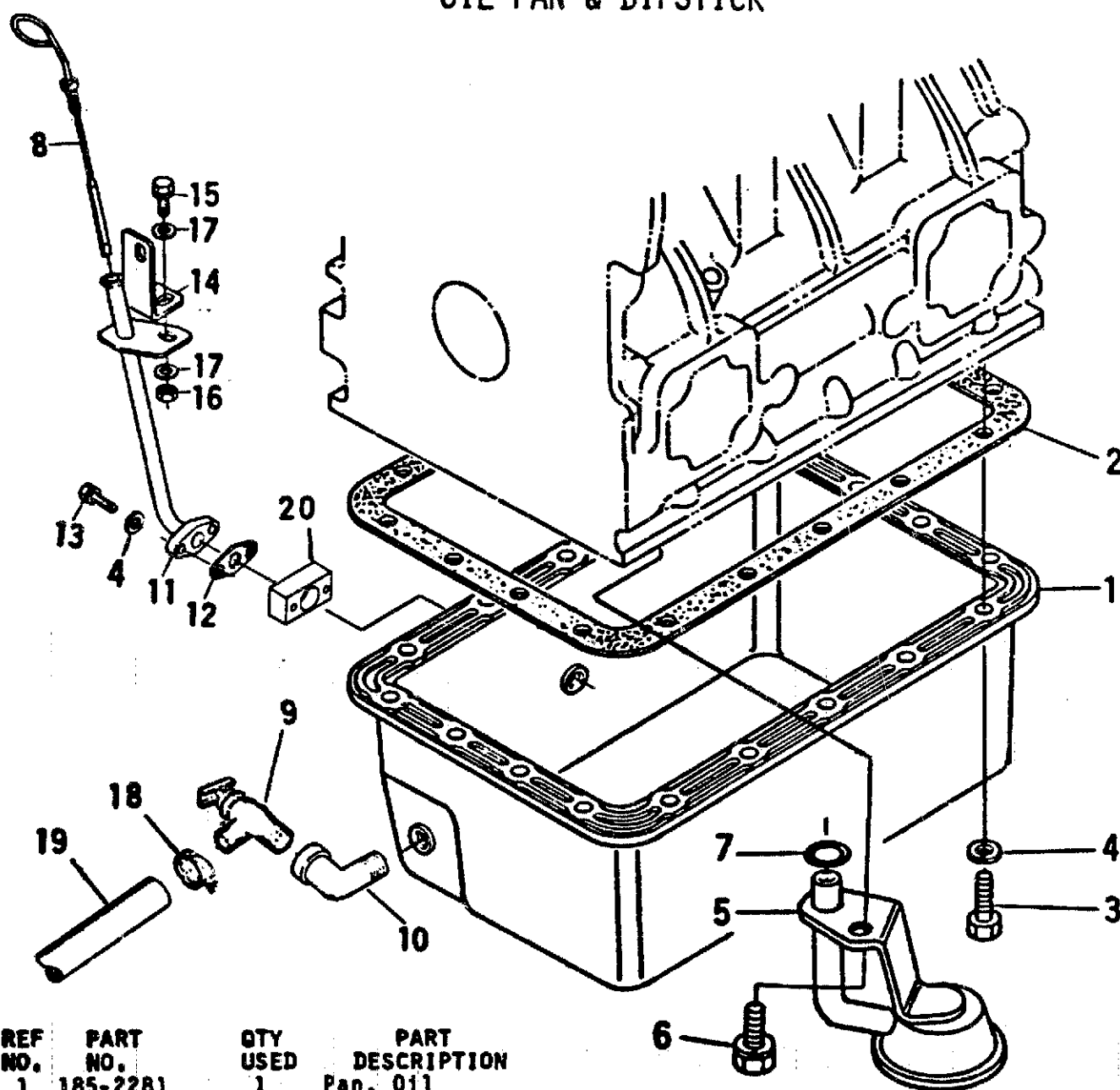
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
18	185-2368	2	Ring, Retaining
19	185-2062	6	Rocker Arm
20	NA		Arm
21	185-2063	6	Bushing, Sleeve
22	185-2407	6	Adjusting Screw
23	185-2408	6	Nut, Hex

CYLINDER HEAD



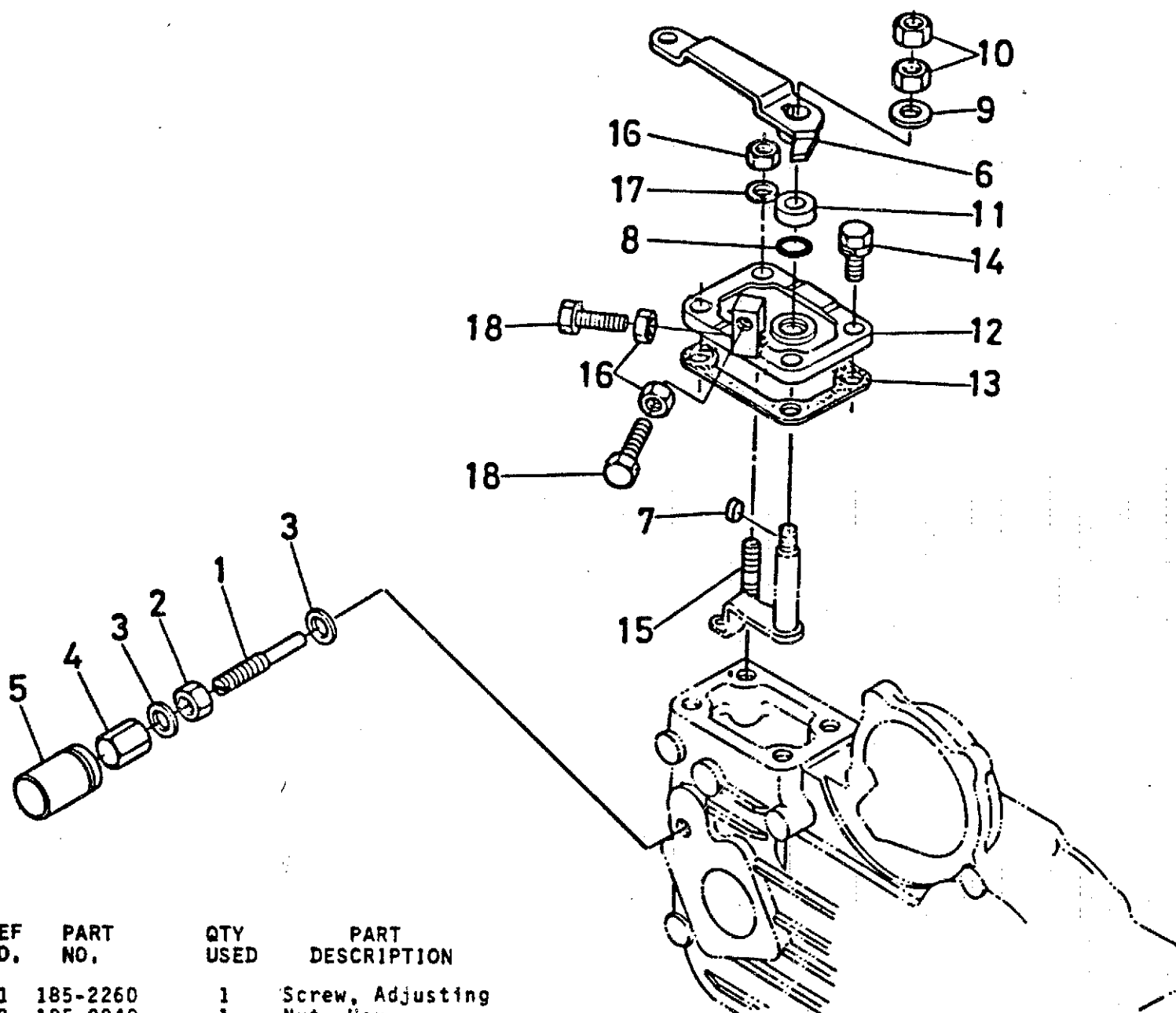
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2414	2	Bracket, Lifting
2	185-2361	1	Stud (M8 x 1.5 x 16MM)
3	185-2399	1	Screw, Cap - Hex Head with Lock-washer (M8 x 1.25 x 16MM)
4	185-2367	1	Nut, Hex (M8 x 1.25)
5	185-2381	1	Washer, Lock - Spring (M8)
6	185-2049	1	Head, Cylinder
7	NA	1	Head, Cylinder
8	185-2413	5	Cup, Sealing
9	185-2411	1	Cup, Sealing
10	185-2188	2	Plug, Pipe - Socket Drive
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	185-2056	1	Gasket, Cylinder Head
17	185-2057	2	Shim
18	193-0318	1	Sender, Temperature - Engine Coolant (E2)

OIL PAN & DIPSTICK



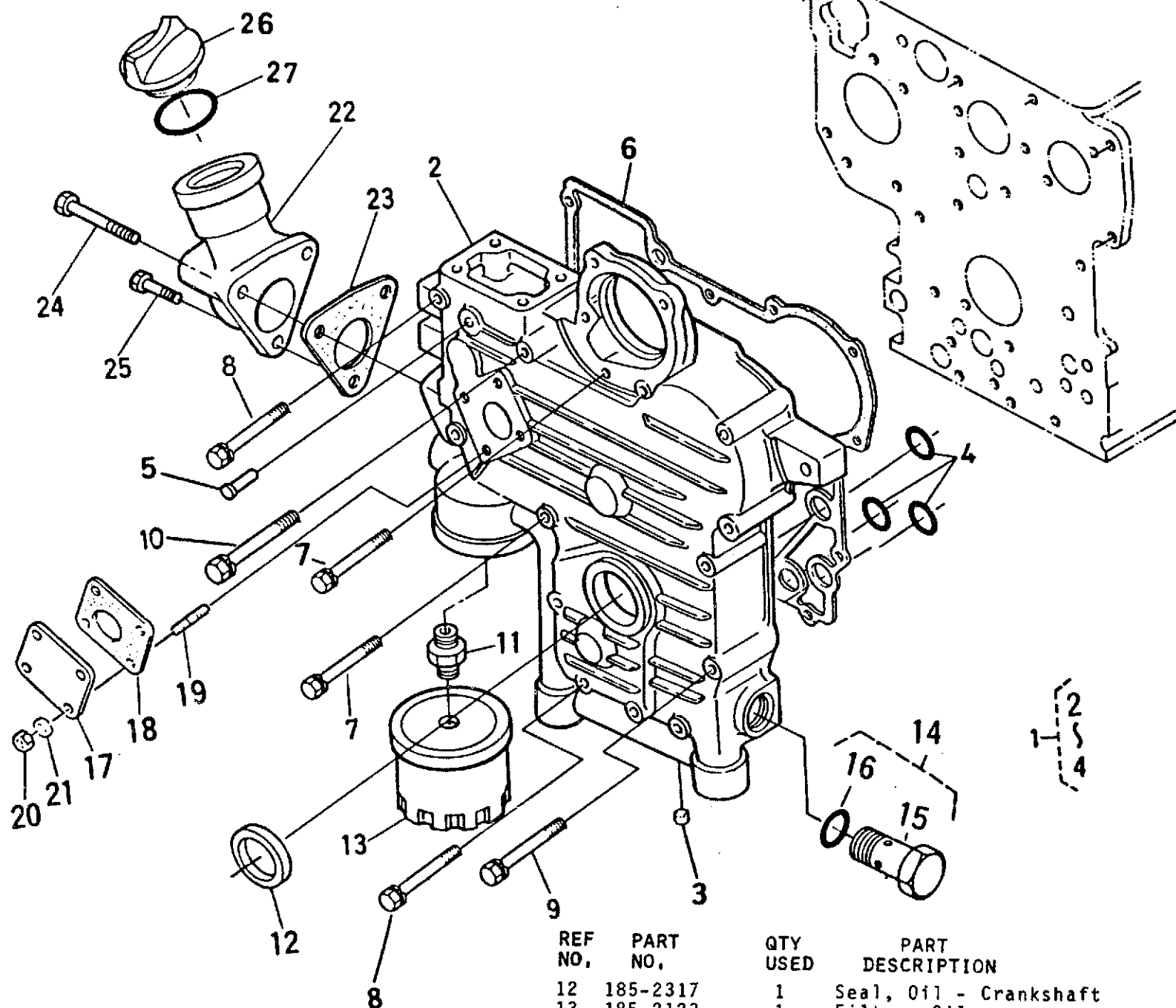
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2281	1	Pan, Oil
2	185-2212	1	Gasket
3	185-2226	18	Bolt, Hex with Lockwasher
4	185-2380	20	Washer, Lock - Spring (M6)
5	185-2220	1	Cup, Pickup - Oil
6	185-2399	1	Screw, Cap - Hex Head with Lockwasher (M8 x 1.25 x 16MM)
7	185-2371	1	O-Ring
8	185-2209	1	Indicator, Oil Level
9	504-0092	1	Valve, Cock (3/8" NPT)
10	505-0120	1	Elbow, Pipe - Street, 90 DEG (3/8" NPT)
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)
14	185-2211	1	Bracket, Oil Indicator Guide
15	185-2400	1	Screw, Cap - Hex Head with Lockwasher (M8 x 1.25 x 18MM)
16	185-2366	1	Nut, Hex, (M8 x 1.25)
17	185-2377	3	Washer, Flat (M8)
18	503-0131	1	Clamp, Hose
19	503-0891	1	Hose, Rubber
20	123-1628	1	Spacer

SPEED CONTROL ASSEMBLY



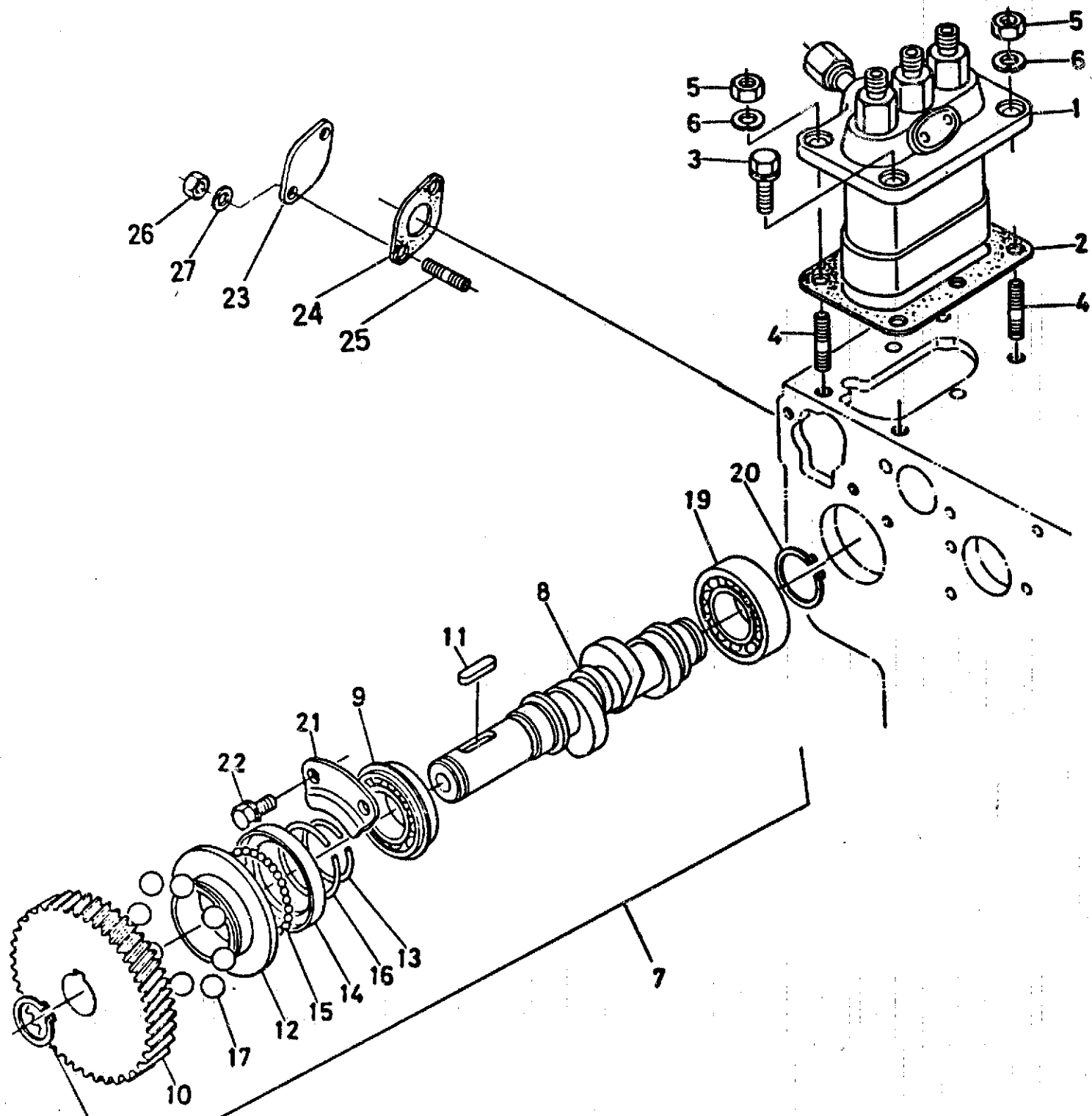
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2260	1	Screw, Adjusting
2	185-2248	1	Nut, Hex
3	185-2284	3	Seal, Oil
4	185-2282	1	Cap Nut
5	185-2283	1	Cap
6	185-2264	1	Lever, Control - Speed
7	185-2187	1	Key
8	185-2373	1	O-Ring
9	185-2376	1	Washer, Flat (M6)
10	185-2364	2	Nut, Hex (M6 x 1)
11	185-2169	1	Bearing, Sleeve
12	185-2263	1	Housing, Control - Speed
13	185-2168	1	Gasket
14	185-2390	3	Screw, Cap - Hex Head with Lock-washer (M6 x 1 x 20MM)
15	185-2105	1	Stud
16	750-1004	3	Nut, Hex (M6 x 1)
17	185-2380	1	Washer, Lock - Spring (M6)
18	185-2342	2	Bolt, Hex - Lever Stop

GEARCASE & OIL FILTER



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

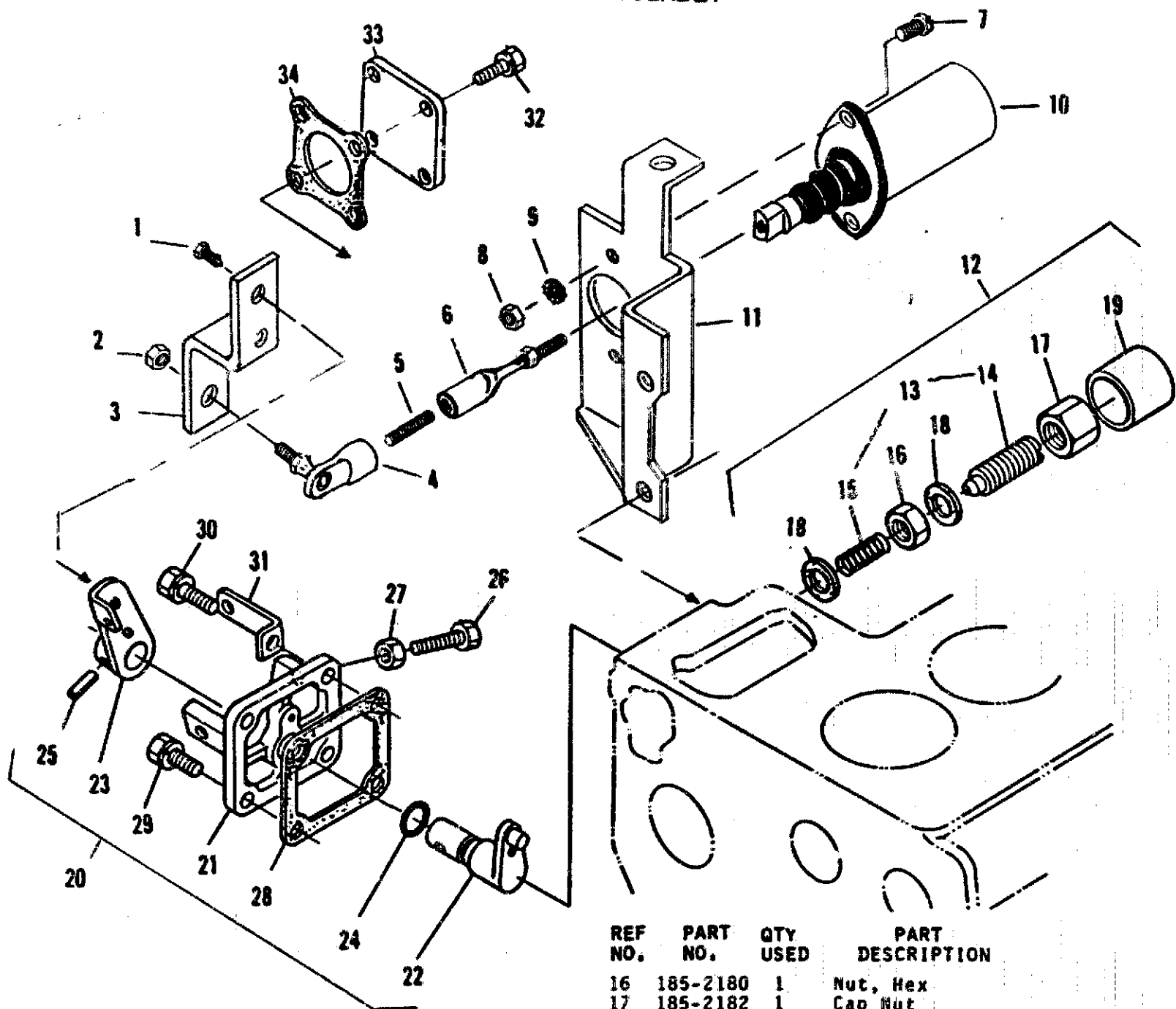
FUEL SYSTEM - INJECTION PUMP & DRIVESHAFT



FUEL SYSTEM INJECTION PUMP & DRIVESHAFT

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2221	1	Pump, Injection - Fuel (See Separate Figure for Parts)
2	185-2223	4	Shim (0.15MM)
3	185-2402	2	Screw, Cap - Hex Head with Lock-washer (M8 x 1.25 x 22MM)
4	185-2106	2	Stud (M8 x 1.25)
5	185-2367	2	Nut, Hex (M8 x 1.25)
6	185-2381	2	Washer, Lock - Spring (M8)
7	185-2083	1	Shaft Assembly, Fuel
8	NA		Camshaft
9	185-2316	1	Bearing, Ball
10	185-2158	1	Gear
11	185-2354	1	Key
12	185-2162	1	Retainer, Ball - Governor
13	185-2163	1	Ring, Retaining
14	185-2164	1	Race, Ball - Governor
15	185-2357	30	Ball
16	185-2165	1	Ring, Retaining
17	185-2358	8	Ball
18	185-2369	1	Ring, Retaining
19	185-2315	1	Bearing, Ball
20	185-2370	1	Ring, Retaining
21	185-2085	1	Plate, Retaining
22	185-2386	2	Screw, Cap - Hex Head with Lock-washer (M6 x 1 x 12MM)
23	185-2418	1	Cover, Fuel Pump Mtg Hole
24	185-2125	1	Gasket
25	185-2359	2	Stud (M6 x 1 x 16MM)
26	750-1004	2	Nut, Hex (M6 x 1)
27	185-2380	2	Washer, Lock - Spring (M6)

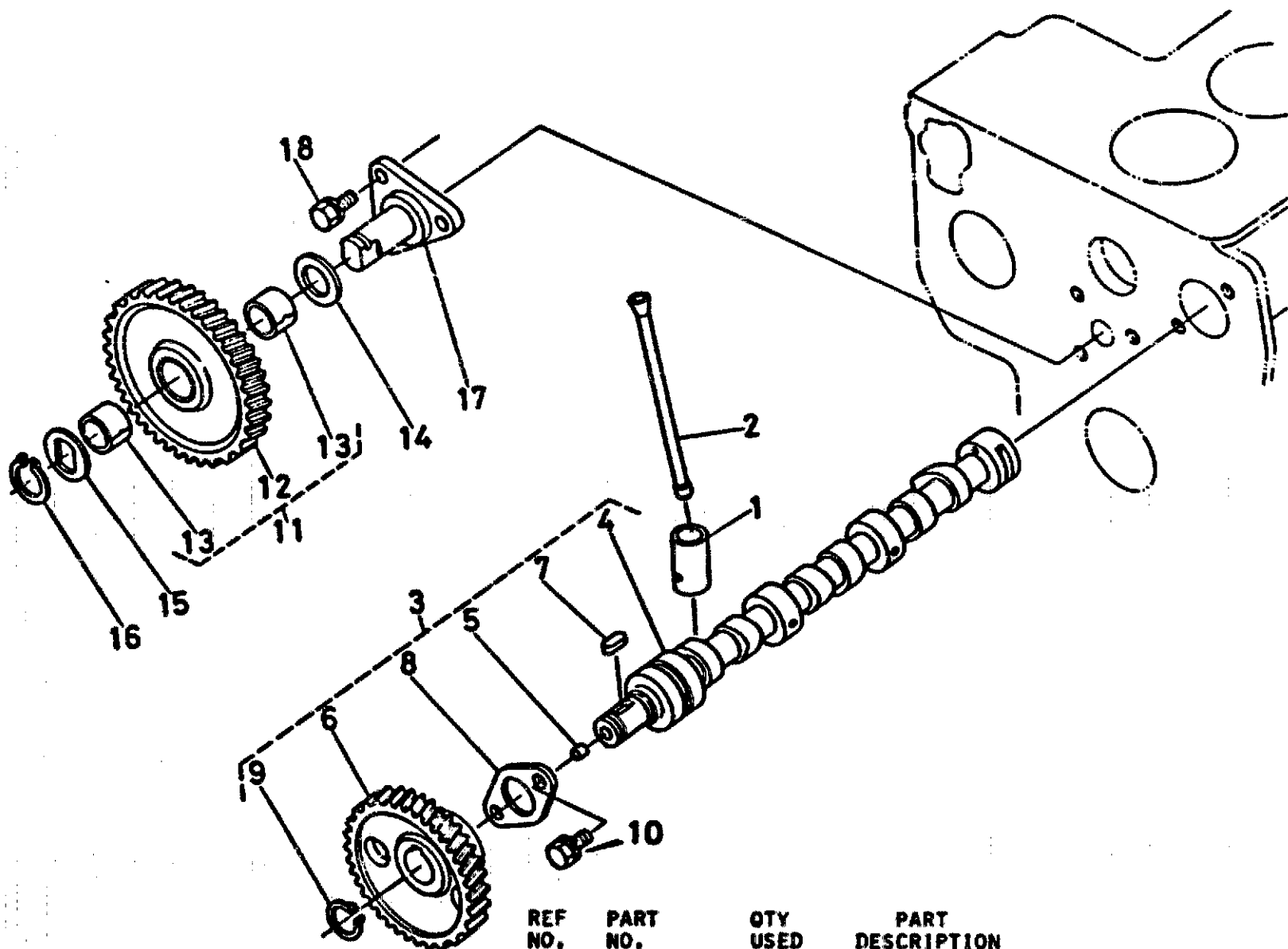
STOP ASSEMBLY



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0181	2	Screw, Tapping - Hex Head (#10-32 x 1/2")
2	115-0025	1	Nut, Hex (1/4-28 UNF)
3	150-1991	1	Bracket, Stop Lever
4	150-1995	1	Ball Joint (1/4-28 UNF)
5	520-0939	1	Stud (1/4-28 x 1-1/2" LG)
6	150-1733	1	Ball Joint (1/4-28 UNF)
7	813-0102	2	Screw, Machine - Round Head (#10-32 x 5/8")
8	870-0131	2	Nut, Hex with ET Lockwasher (#10-32)
9	856-0003	2	Washer, Lock - EIT (#10)
10	307-1686	1	Solenoid, Electric (12VDC)
11	150-1992	1	Bracket, Solenoid Mounting
12	185-2258	1	Control, Idle
13	185-2259	1	Adjuster, Idle
14	NA		Screw, Adjusting
15	NA		Spring

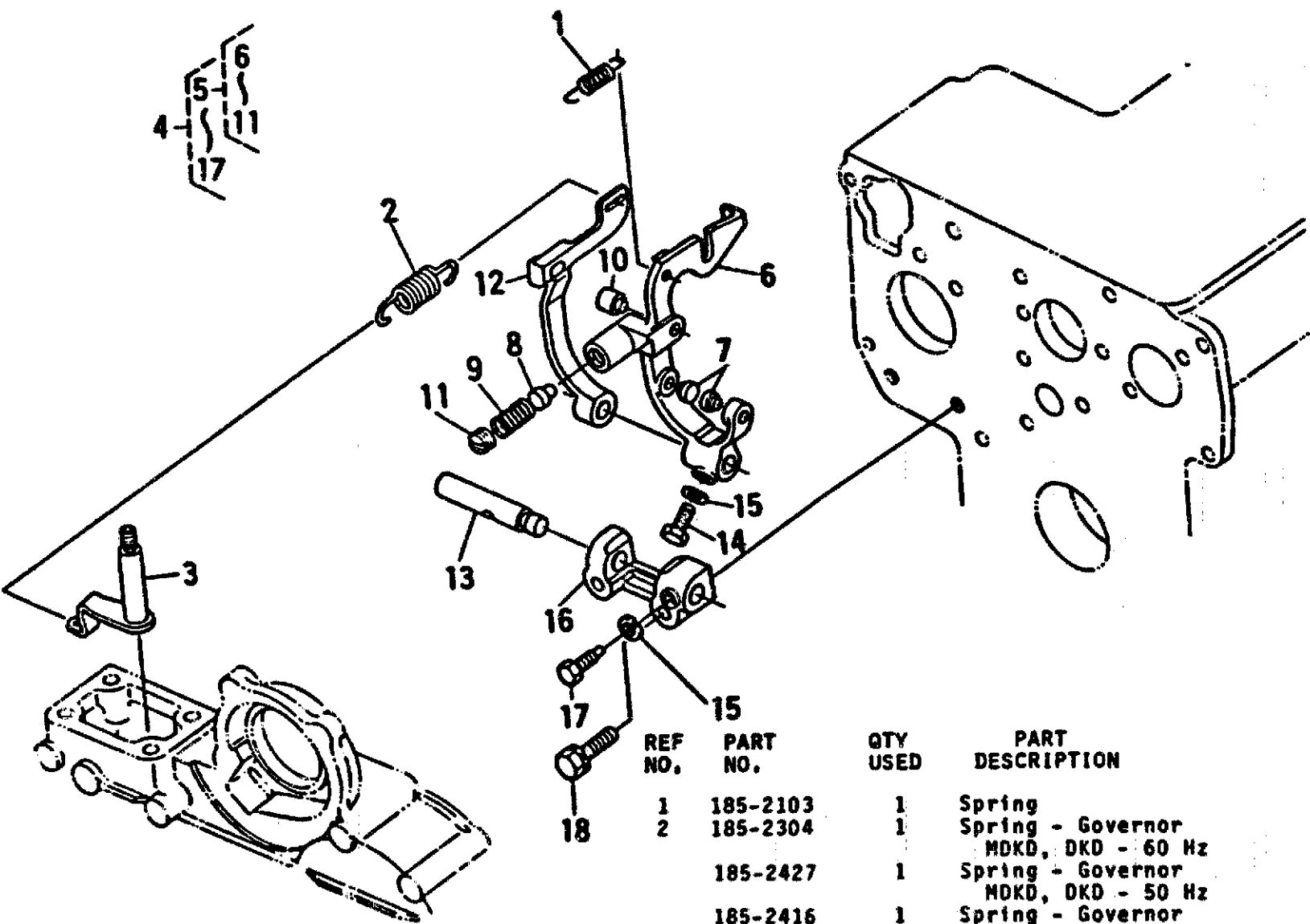
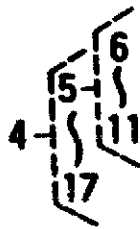
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
16	185-2180	1	Nut, Hex
17	185-2182	1	Cap Nut
18	185-2338	2	Seal, Oil
19	185-2161	1	Cap
20	185-2305	1	Lever, Stop
21	185-2257	1	Cover
22	NA		Shaft
23	NA		Lever
24	185-2347	1	O-Ring
25	185-2351	1	Pin, Spring
26	185-2342	1	Bolt, Hex
27	750-1004	1	Nut, Hex (M6 x 1)
28	185-2114	1	Gasket
29	185-2389	3	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 18MM)
30	185-2390	1	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 20MM)
31	185-2265	1	Bracket
32	185-2400	4	Screw, Cap - Hex Head with Lockwasher (M8 x 1.25 x 18MM)
33	185-2126	1	Cover (Not used on Sets with Ra Water Pump)
34	185-2120	1	Gasket

CAMSHAFT



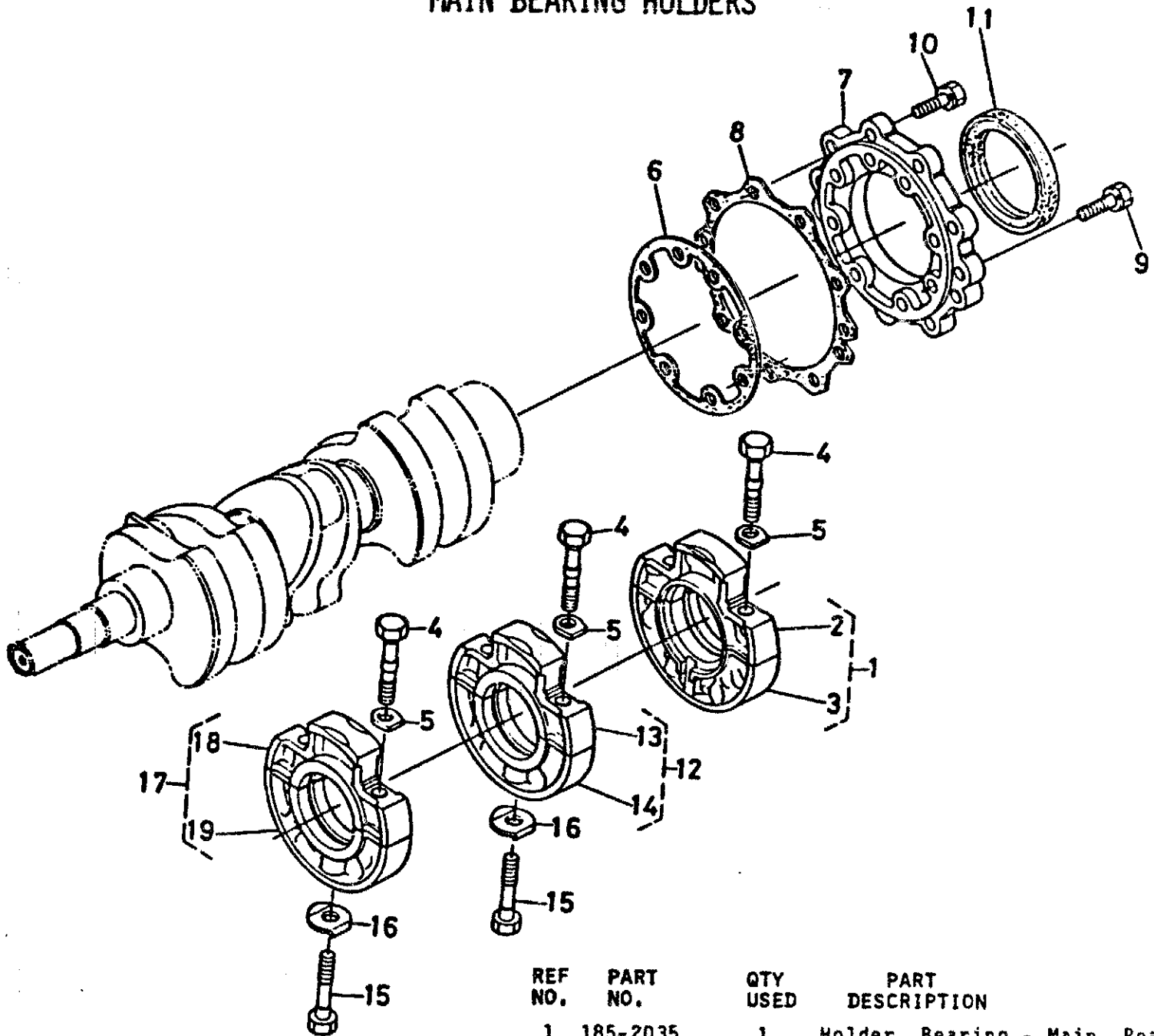
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2075	6	Tappet
2	185-2074	6	Rod, Push
3	NA		Assembly
4	185-2082	1	Camshaft
5	185-2190	2	Plug
6	185-2086	1	Gear
7	185-2353	1	Key
8	185-2084	1	Plate, Retaining
9	185-2369	1	Ring, Retaining
10	185-2387	2	Screw, Cap - Hex Head with Lock-washer (M6 x 1 x 14MM)
11	185-2042	1	Gear
12	NA		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 Lock-washer (M6 x 1 x 16MM)

GOVERNOR



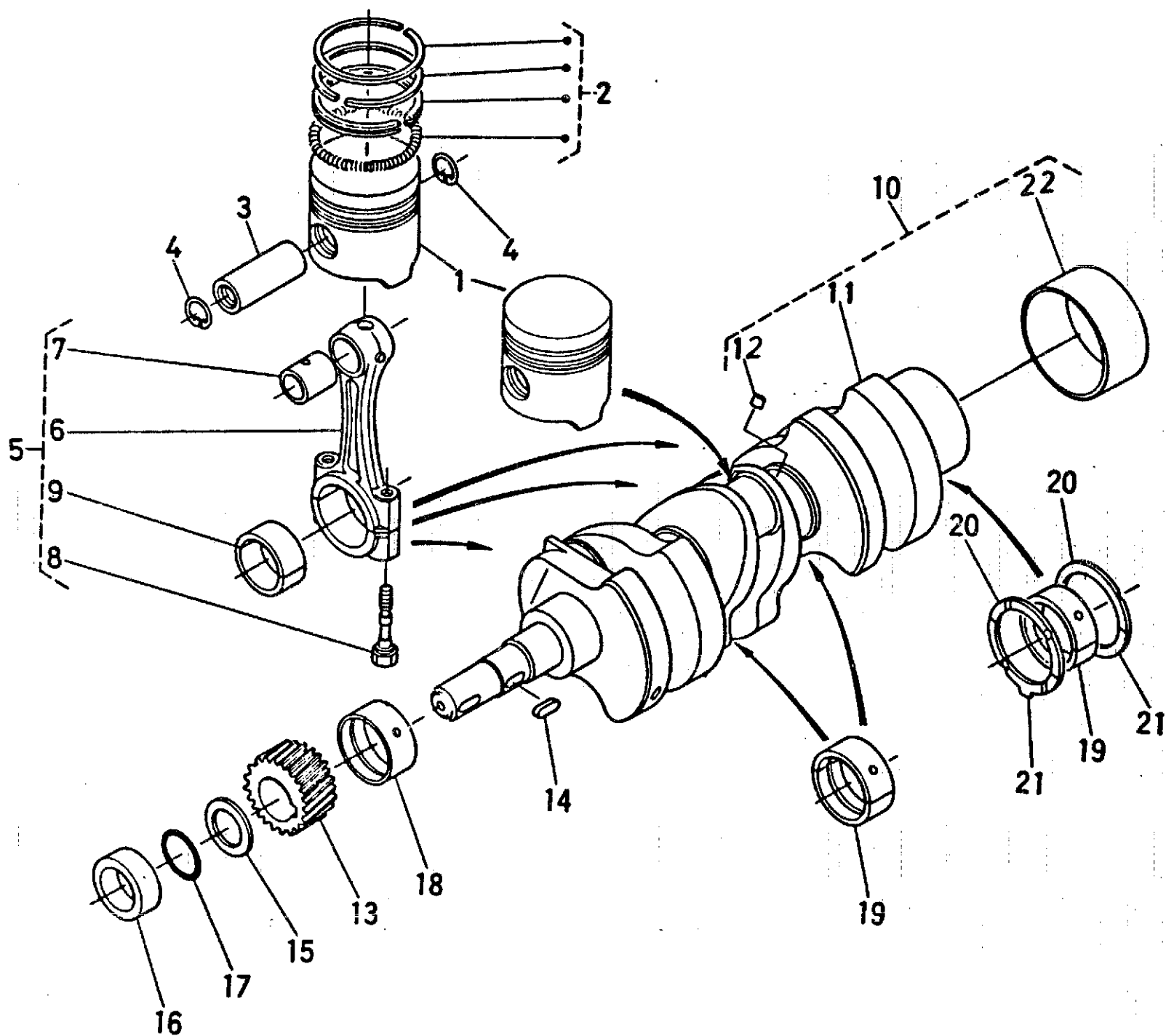
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2103	1	Spring
2	185-2304	1	Spring - Governor
	185-2427	1	MDKD, DKD - 60 Hz
	185-2416	1	Spring - Governor
	185-2416	1	MDKC, DKC - 50 Hz
	185-2416	1	MDKC, DKC - 60 Hz
	185-2416	1	Spring - Governor
	185-2416	1	MDKC, DKC - 50 Hz
3	185-2261	1	Lever with Shaft - Governor
4	NA		Lever Set - Governor
5	185-2310	1	Lever Assembly - Governor
6	NA		Lever
7	NA		Follower, Cam
8	NA		Plug
9	NA		Spring
10	NA		Pivot
11	NA		Screw, Adjusting
12	185-2262	1	Lever, Governor
13	185-2166	1	Shaft
14	718-1006	1	Screw, Cap - Hex Head (M5 x.5 x 16MM)
15	185-2379	1	Washer, Lock - Spring (M5)
16	185-2167	1	Holder, Lever - Governor
17	185-2173	1	Bolt, Hex
18	185-2392	2	Screw, Cap - Hex Head with Lockwasher (M6 x 1 x 28MM)

MAIN BEARING HOLDERS



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

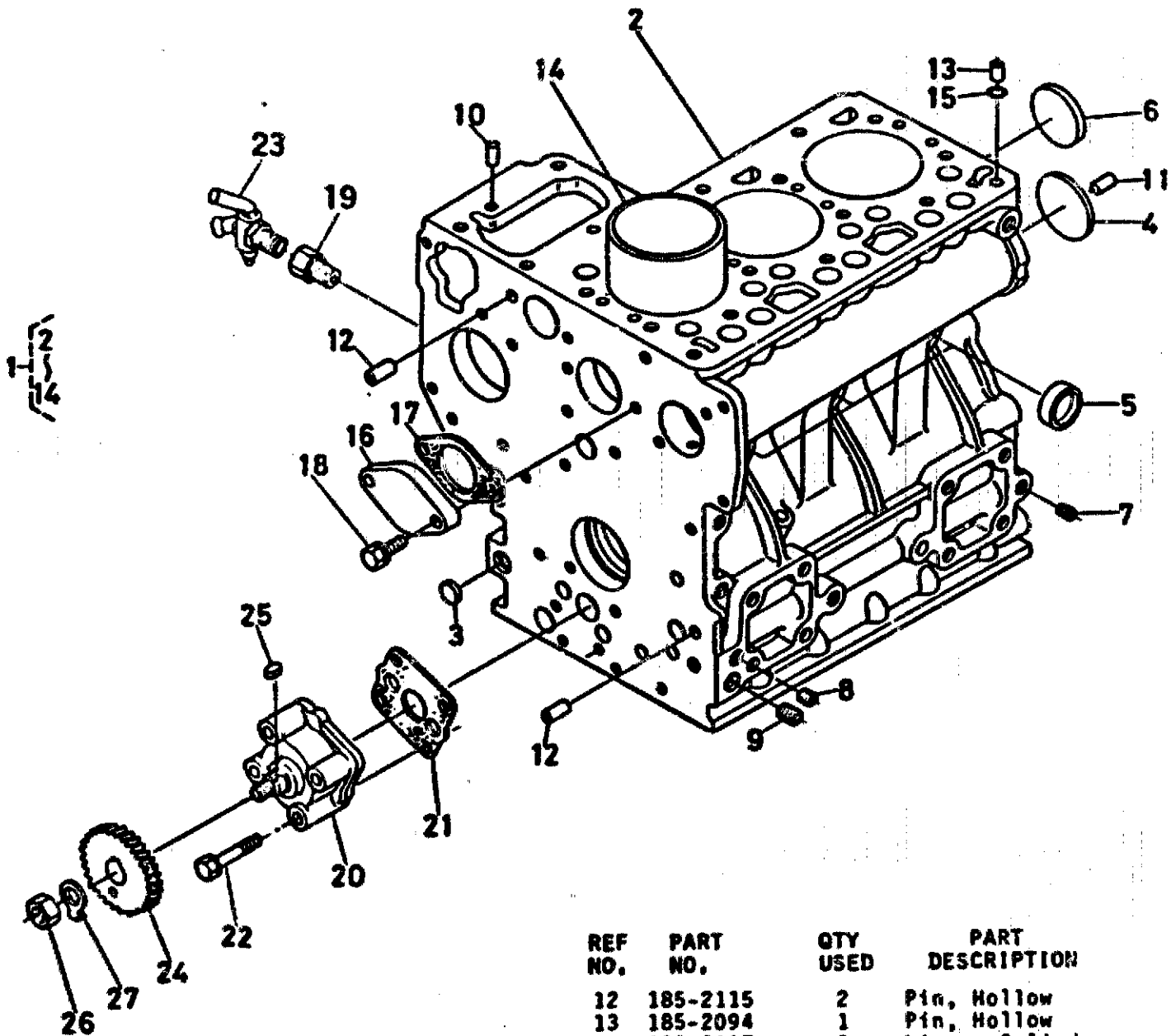
CRANKSHAFT & PISTON ASSEMBLY



CRANKSHAFT & PISTON ASSEMBLY

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2008	2	Piston - STD (#1 & 3 Cylinders Only!)
	185-2009	2	Piston - 0.5MM Oversize (#1 & 3 Cylinders Only!)
	185-2428	1	Piston - STD (#2 Cylinder Only!)
	185-2429	1	Piston - 0.5MM Oversize (#2 Cylinder Only!)
2	185-2010	3	Ring Set (Std)
	185-2011	3	Ring Set (0.5MM Oversize)
3	185-2015	3	Pin, Piston
4	185-2016	6	Ring, Retaining
5	185-2012	3	Rod, Connecting
6	NA		Rod
7	185-2017	3	Bearing, Sleeve
8	185-2018	6	Bolt, Hex - Rod Cap
9	185-2013	6	Bearing Half(Std)
	185-2019	6	Bearing Half (0.2MM Undersize)
	185-2014	6	Bearing Half (0.4MM Undersize)
10	185-2041	1	Crankshaft
11	NA		Crankshaft
12	NA		Plug
13	185-2043	1	Gear
14	185-2353	1	Key
15	185-2087	1	Slinger, Oil
16	185-2250	1	Spacer, Sleeve
17	185-2348	1	O-Ring
18	185-2020	1	Bearing, Crankshaft (Std)
	185-2024	1	Bearing (0.2MM Undersize)
	185-2025	1	Bearing (0.4MM Undersize)
19	185-2021	6	Bearing, Half - Crankshaft (Std)
	185-2026	6	Bearing, Half (0.2MM Undersize)
	185-2027	6	Bearing, Half (0.4MM Undersize)
20	185-2022	2	Bearing, Thrust (Std)
	185-2028	2	Bearing, Thrust (0.2MM Oversize)
	185-2029	2	Bearing, Thrust (0.4MM Oversize)
21	185-2023	2	Bearing, Thrust (Std)
	185-2030	2	Bearing, Thrust (0.2MM Oversize)
	185-2031	2	Bearing, Thrust (0.4MM Oversize)
22	185-2033	1	Sleeve, Crankshaft

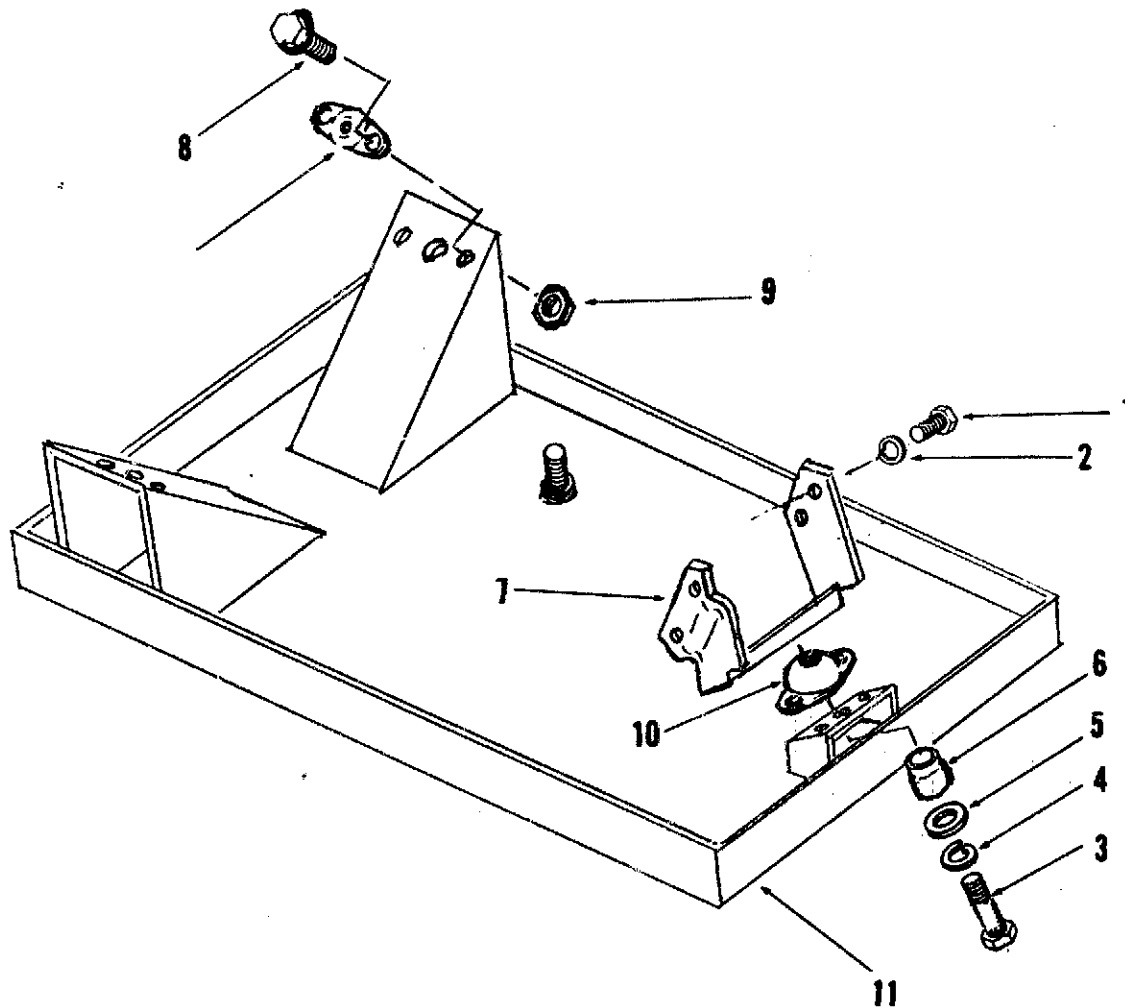
CYLINDER BLOCK & OIL PUMP



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2001	1	Crankcase
2	NA		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	195-2234	1	Plug
10	185-2350	2	Pin, Straight, Headless
11	775-0072	2	Pin, Straight, Headless

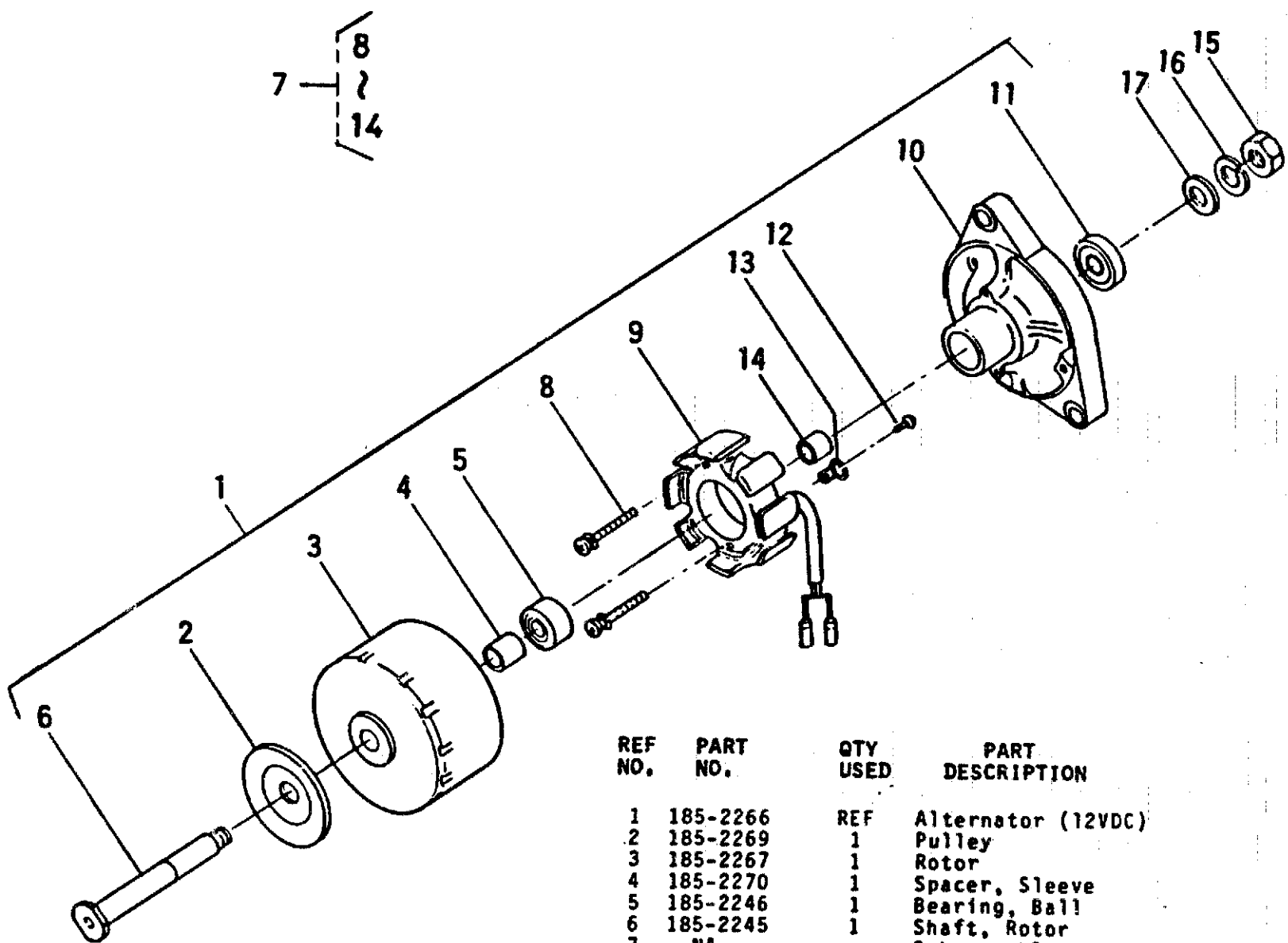
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12	185-2115	2	Pin, Hollow
13	185-2094	1	Pin, Hollow
14	185-2007	3	Liner, Cylinder
15	185-2095	1	O-Ring
16	185-2176	1	Cover Plate
17	185-2177	1	Gasket
18	185-2389	2	Screw, Cap - Hex Head (M6 x 1 x 18MM)
19	185-2229	1	Plug, Hex
20	185-2155	1	Pump, Oil
21	185-2156	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)

DRIP PAN AND MOUNTS



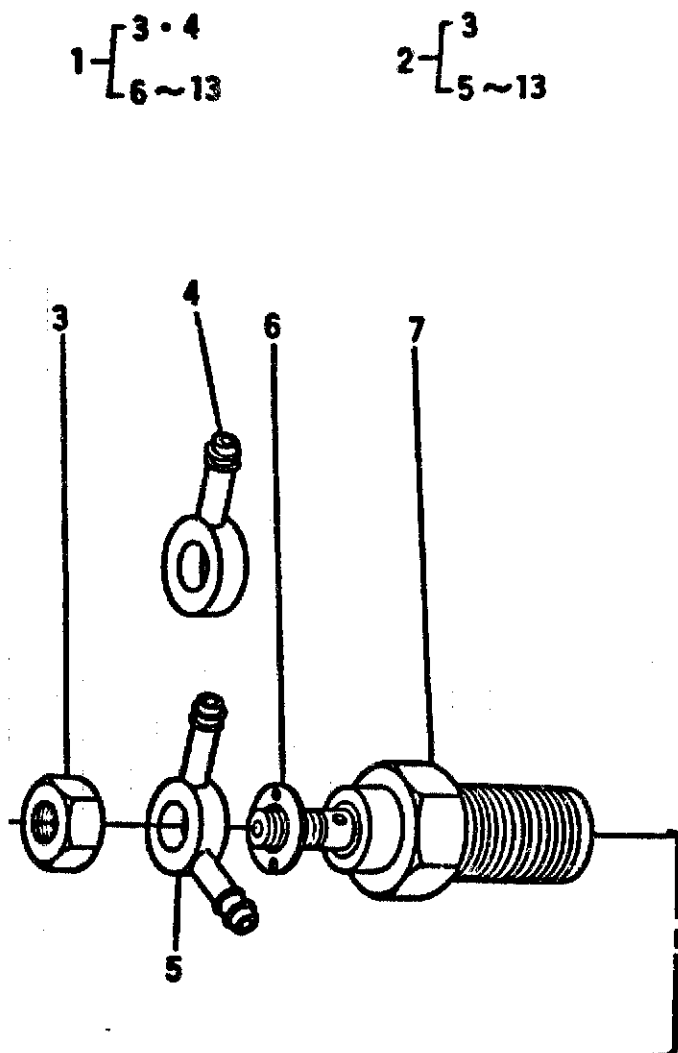
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0585	4	Screw, Cap - Hex Head (M10 x 1.25 x 20MM)
2	850-2010	4	Washer, Lock - Spring (M10)
3	800-0055	3	Screw, Cap - Hex Head (3/8-16 x 2-1/4")
4	850-0050	3	Washer, Lock - Spring (3/8")
5	526-0014	3	Washer, Flat (29/64"ID x 1-1/2"OD x 1/4"THK)
6	403-2213	3	Spacer, Sleeve
7	403-2194	1	Support, Engine
8	821-0016	6	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")
9	870-0257	6	Nut, Self-locking, Hex - Washer Head (5/16-18)
10	402-0544	3	Mount, Vibration
11	403-2203	1	Drip Pan - MDKC, MDKD
	403-2205	1	Drip Pan - DKC, DKD

ALTERNATOR - EXPLODED VIEW

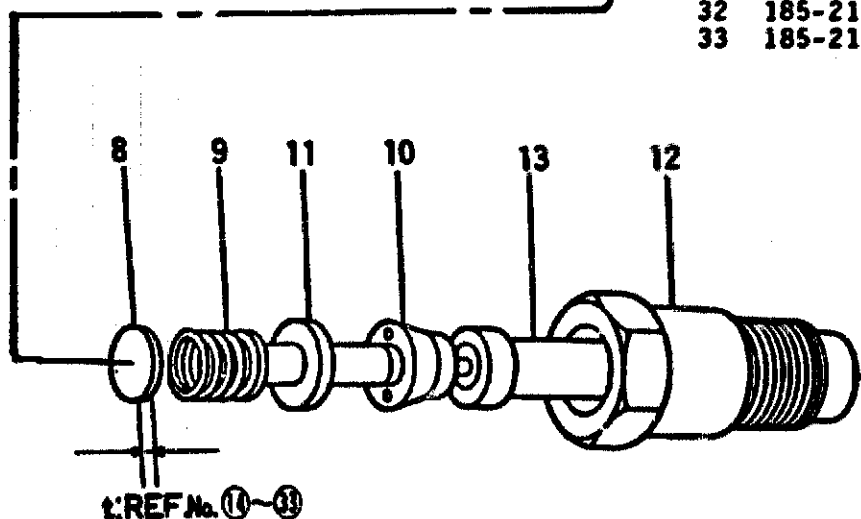


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2266	REF	Alternator (12VDC)
2	185-2269	1	Pulley
3	185-2267	1	Rotor
4	185-2270	1	Spacer, Sleeve
5	185-2246	1	Bearing, Ball
6	185-2245	1	Shaft, Rotor
7	NA		Subassembly
8	185-2183	2	Screw, Machine - Round Head, Cross-recessed Drive, with Lockwasher
9	185-2272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

INJECTION NOZZLE - EXPLODED VIEW

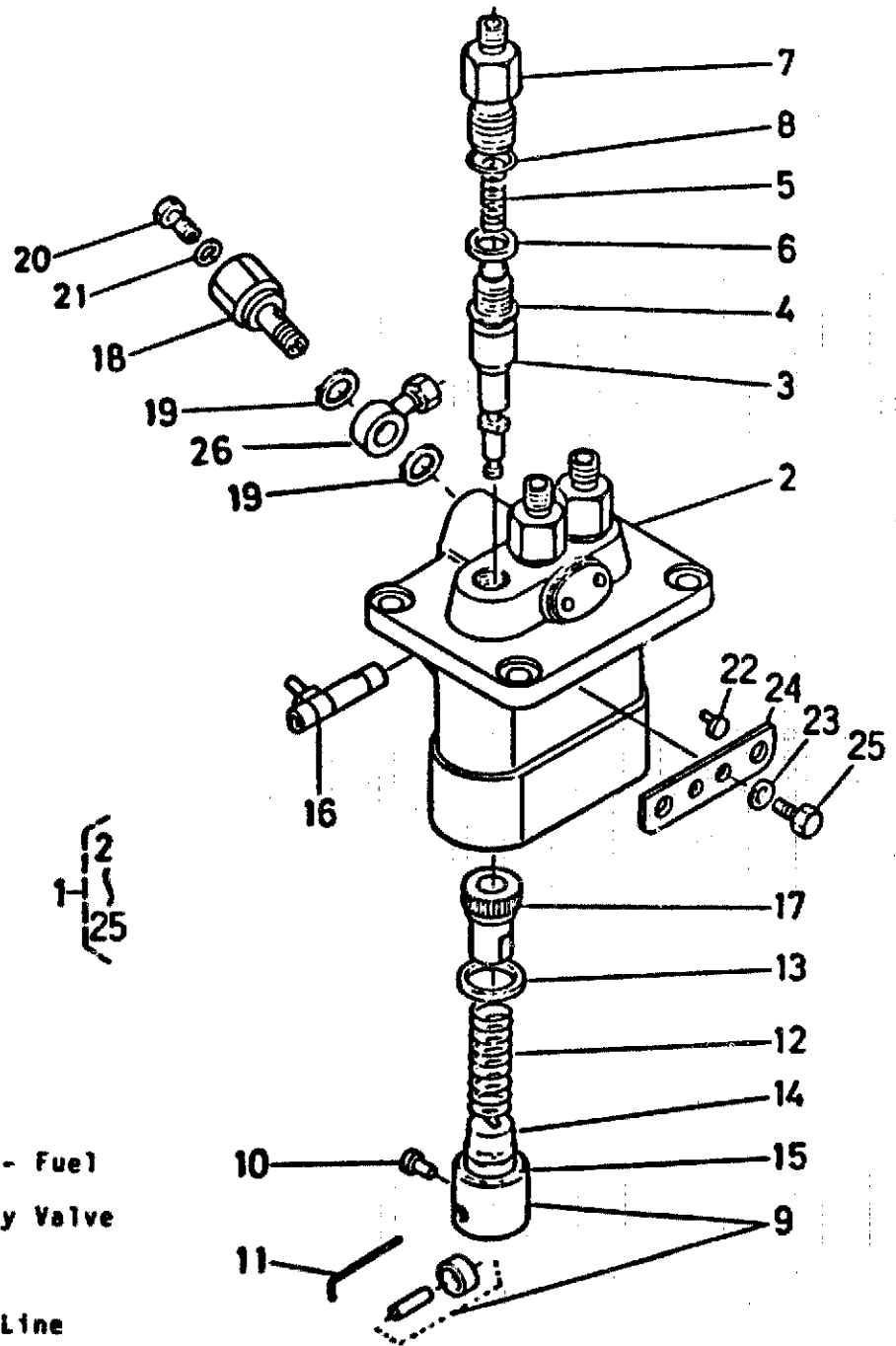


REF NO,	PART NO,	QTY USED	PART DESCRIPTION
1	185-2191	REF	Nozzle, Injection (All Parts Common Except as Marked)
2	185-2192	REF	Nozzle, Injection (All Parts Common Except as Marked)
3	185-2107	1	Nut, Hex
4	185-2112	1	Adapter, Line - Fuel Overflow (Used on 185-2191 Only)
5	185-2113	1	Adapter, Line - Dual, Fuel Overflow (Used on 185-2192 Only)
6	185-2109	1	Washer, Flat
7	NA		Screw, Adjusting - Pressure
8	185-2099	1	Shim
9	185-2098	1	Spring
10	185-2101	1	Spacer
11	185-2097	1	Spindle
12	185-2100	1	Holder, Nozzle
13	185-2339	1	Nozzle, Injection - Fuel
14	185-2132	1	Shim (1.00MM)
15	185-2133	1	Shim (1.05MM)
16	185-2134	1	Shim (1.10MM)
17	185-2135	1	Shim (1.15MM)
18	185-2136	1	Shim (1.20MM)
19	185-2137	1	Shim (1.25MM)
20	185-2138	1	Shim (1.30MM)
21	185-2139	1	Shim (1.35MM)
22	185-2140	1	Shim (1.40MM)
23	185-2141	1	Shim (1.45MM)
24	185-2142	1	Shim (1.50MM)
25	185-2143	1	Shim (1.55MM)
26	185-2144	1	Shim (1.60MM)
27	185-2145	1	Shim (1.65MM)
28	185-2146	1	Shim (1.70MM)
29	185-2147	1	Shim (1.75MM)
30	185-2148	1	Shim (1.80MM)
31	185-2149	1	Shim (1.85MM)
32	185-2150	1	Shim (1.90MM)
33	185-2151	1	Shim (1.95MM)



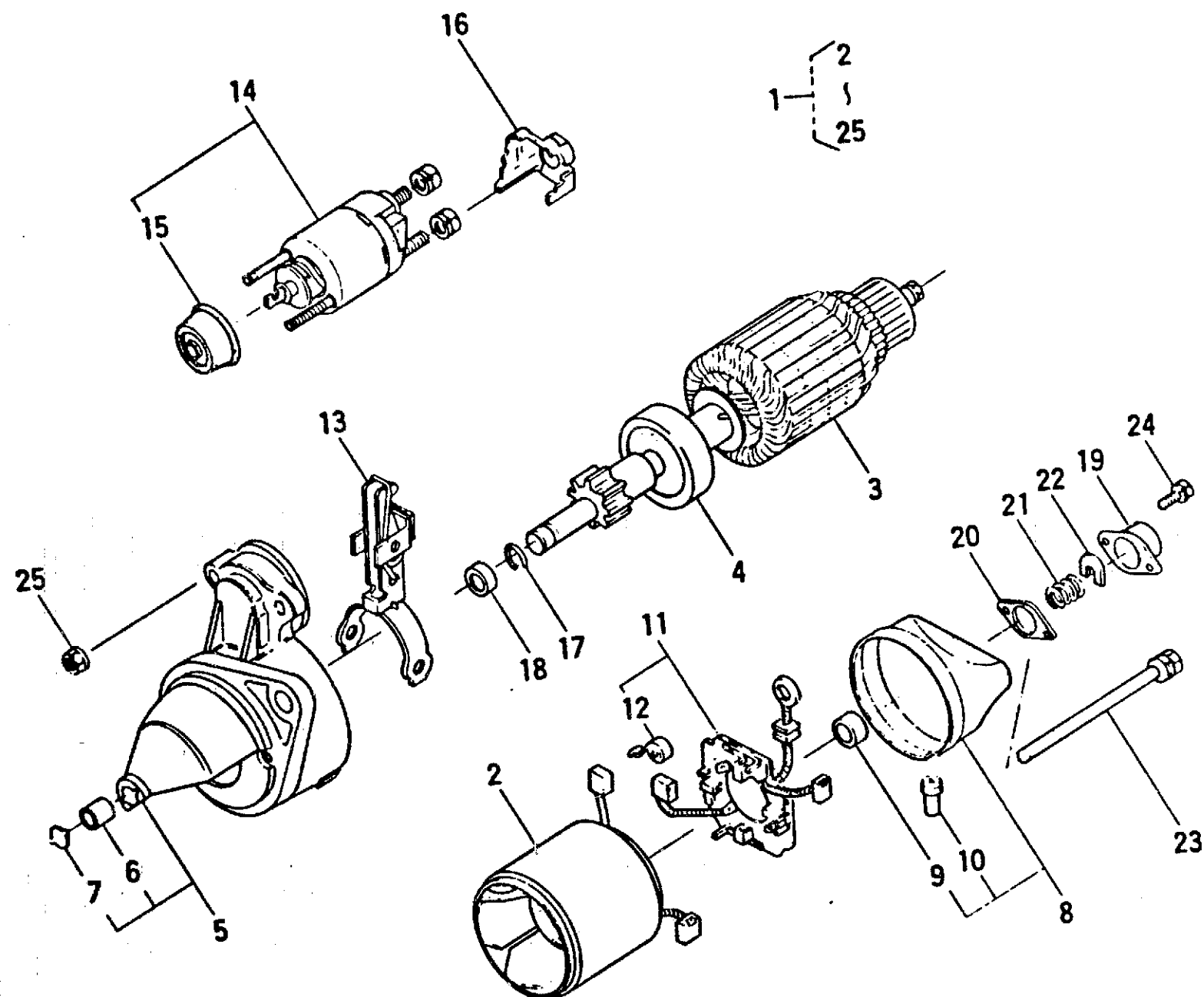
REF No. (16-33)

INJECTION PUMP - EXPLODED VIEW



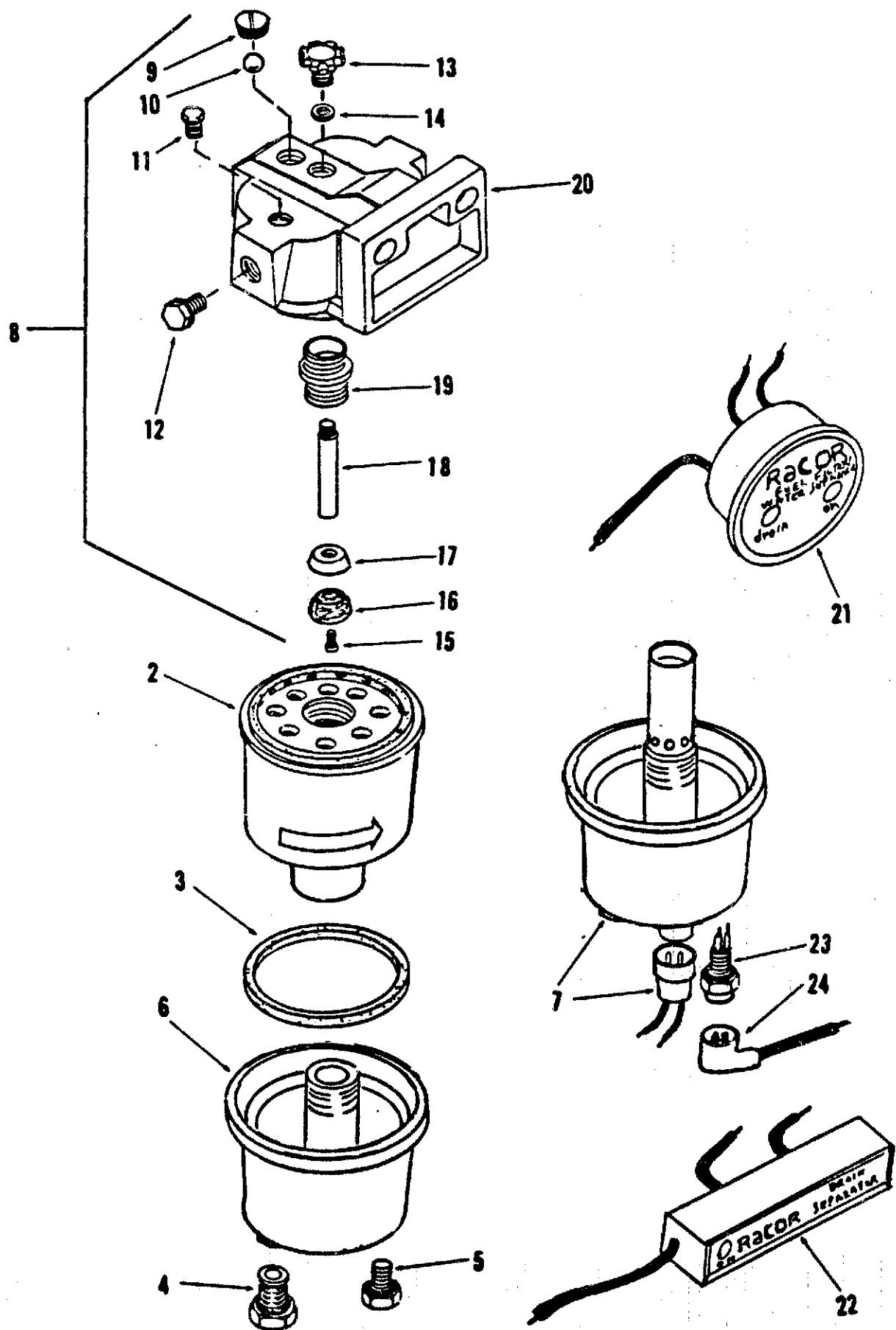
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2221	REF	Pump, Injection - Fuel
2	NA		Housing, Pump
3	NA		Plunger, Delivery Valve
4	NA		Valve, Delivery
5	NA		Spring
6	185-2196	3	Gasket
7	NA		Connector, Fuel Line
8	185-2198	3	O-Ring
9	NA		Tappet (Includes Roller and Shaft)
10	NA		Pin, Shouldered
11	NA		Pin, Roller Shaft
12	NA		Spring
13	NA		Seat, Spring - Upper
14	NA		Seat, Spring - Lower
15	NA		Shim
16	NA		Shaft, Fuel Control
17	NA		Sleeve, Fuel Control
18	NA		Vent, Air
19	185-2197	2	O-Ring
20	NA		Screw, Cap - Hex Head (Air Vent)
21	185-2318	1	O-Ring
22	NA		Collar
23	NA		Washer, Lock - Spring
24	NA		Plate, Adjusting
25	NA		Screw, Cap - Hex Head
26	185-2415	1	Adapter, Line - Fuel

STARTER - EXPLODED VIEW



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2116	REF	Starter (12VDC)	14	185-2117	1	Solenoid
2	185-2322	1	Coil, Field	15	185-2331	1	Cover, Plunger
3	185-2321	1	Armature	16	185-2323	1	Insulator, Terminal
4	185-2319	1	Clutch	17	185-2111	1	Ring, Retaining
5	185-2118	1	Housing, Drive End	18	185-2195	1	Spacer, Sleeve
6	185-2295	1	Bushing, Sleeve	19	185-2332	1	Housing
7	185-2335	1	Cover	20	185-2333	1	Gasket
8	185-2326	1	Housing, Brush End	21	185-2325	1	Spring
9	185-2327	1	Bushing, Sleeve	22	185-2324	1	Clip, Retaining
10	185-2119	1	Cover	23	185-2328	2	Bolt, Hex
11	185-2329	1	Brush Rig	24	185-2383	2	Screw, Machine - Pan Head with Lockwasher (M4 x .5 x 14MM)
12	185-2330	4	Spring				
13	185-2320	1	Lever, Drive	25	185-2334	2	Nut, Hex

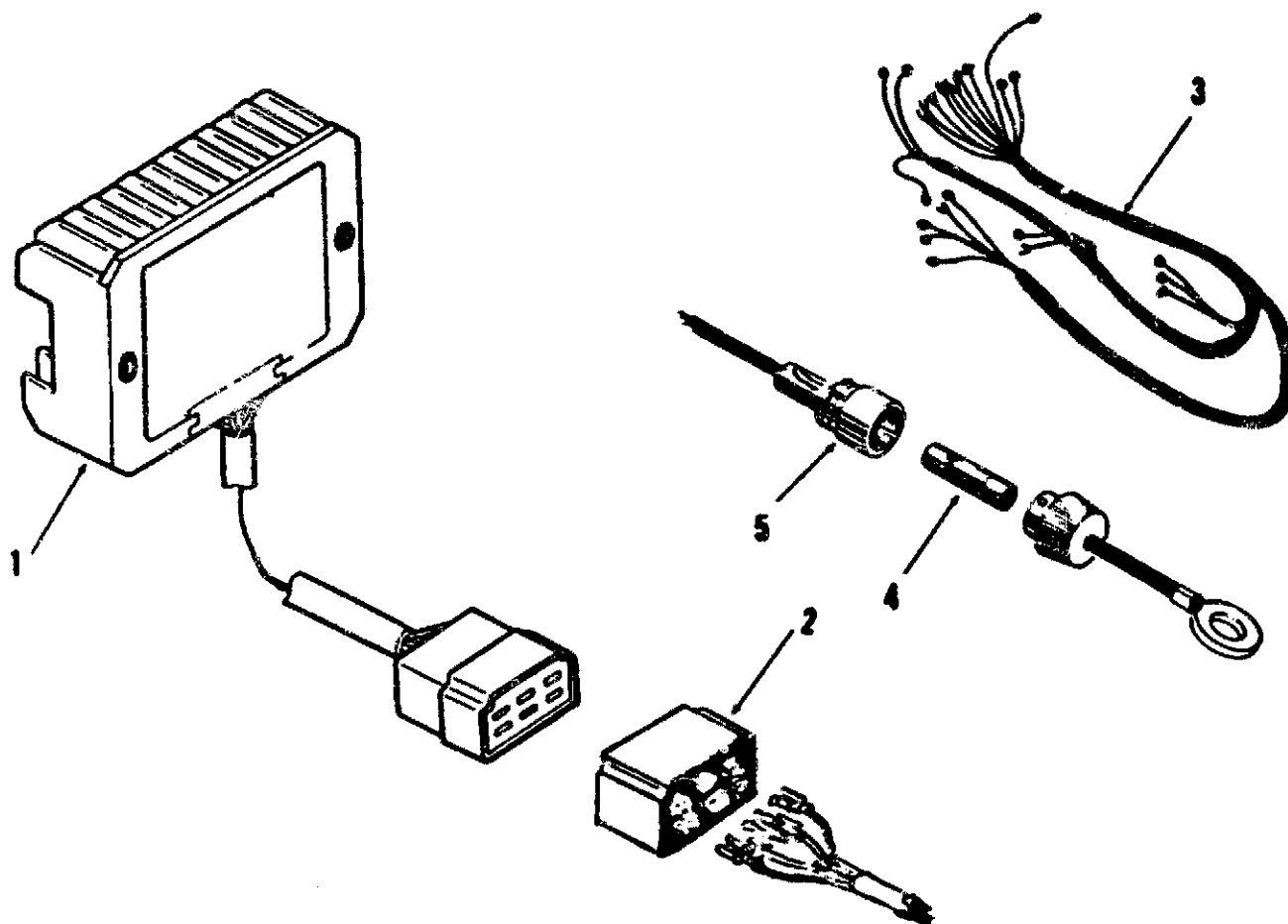
FUEL FILTER/SEPARATOR - EXPLODED VIEW



FUEL FILTER/SEPARATOR - EXPLODED VIEW

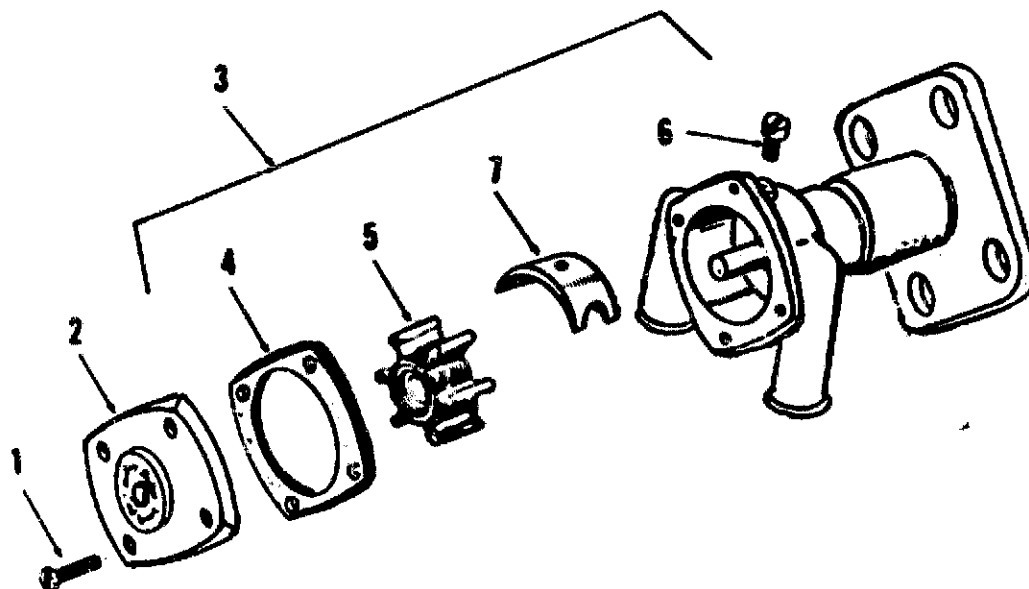
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			FUEL FILTER/SEPARATOR - PRESSURE APPLICATIONS Includes: Metal Bowl, 2 Micron Element; Excludes: Check Ball, Primer Pump.
2			ELEMENT, FUEL FILTER/SEPARATOR
	149-1914-04	1	2 Micron - Pressure Type
3	149-1973	1	Gasket - Bowl to Element(O-Ring)
4	149-1953	1	Drain Plug Assembly
5	149-1951	1	Plug, Hex with O-Ring
6			BOWL, FILTER/SEPARATOR
	149-1963	1	Metal (Mandatory on Marine Applications)
7			BOWL WITH HEATER - OPTIONAL
	149-1978	1	Metal Bowl, 12 VDC Heater
	149-1970	1	Metal Bowl, 24 VDC Heater
8			HEAD ASSEMBLY, FUEL FILTER/SEPARATOR
	149-1949	1	Without Check Ball, Without Primer Pump
9	149-1960	1	Cap, Check Ball
10	NA	1	Ball, Check(Not used on Pressure Applications)
11	149-1952	1	Plug, Hex With O-Ring
12	149-1950	1	Plug, Hex - Outlet Port
13	149-1954	1	Knob - Primer Pump
14	149-1956	1	Seal - Primer Pump Shaft
15	NA	1	Screw, Machine - Round Head(Optional)
16	NA	1	Plunger - Primer Pump(Optional)
17	NA	1	Retainer, Plunger (Optional)
18	NA	1	Shaft - Primer Pump (Optional)
19	NA	1	Tube, Primer Pump (Optional)
20	NA	REF	Head, Filter/Separator
21	149-1971	1	Kit, Water Sensor -(Optional)- Panel Mounted (Includes Probe and Connector)
22	149-1972	1	Kit, Water Sensor -(Optional)- Dash Mounted (Includes Probe and Connector)
23	149-1974	1	Probe, Water Sensor (Optional)
24	149-1975	1	Connector, Electrical(Optional)

VOLTAGE REGULATOR & WIRING HARNESS



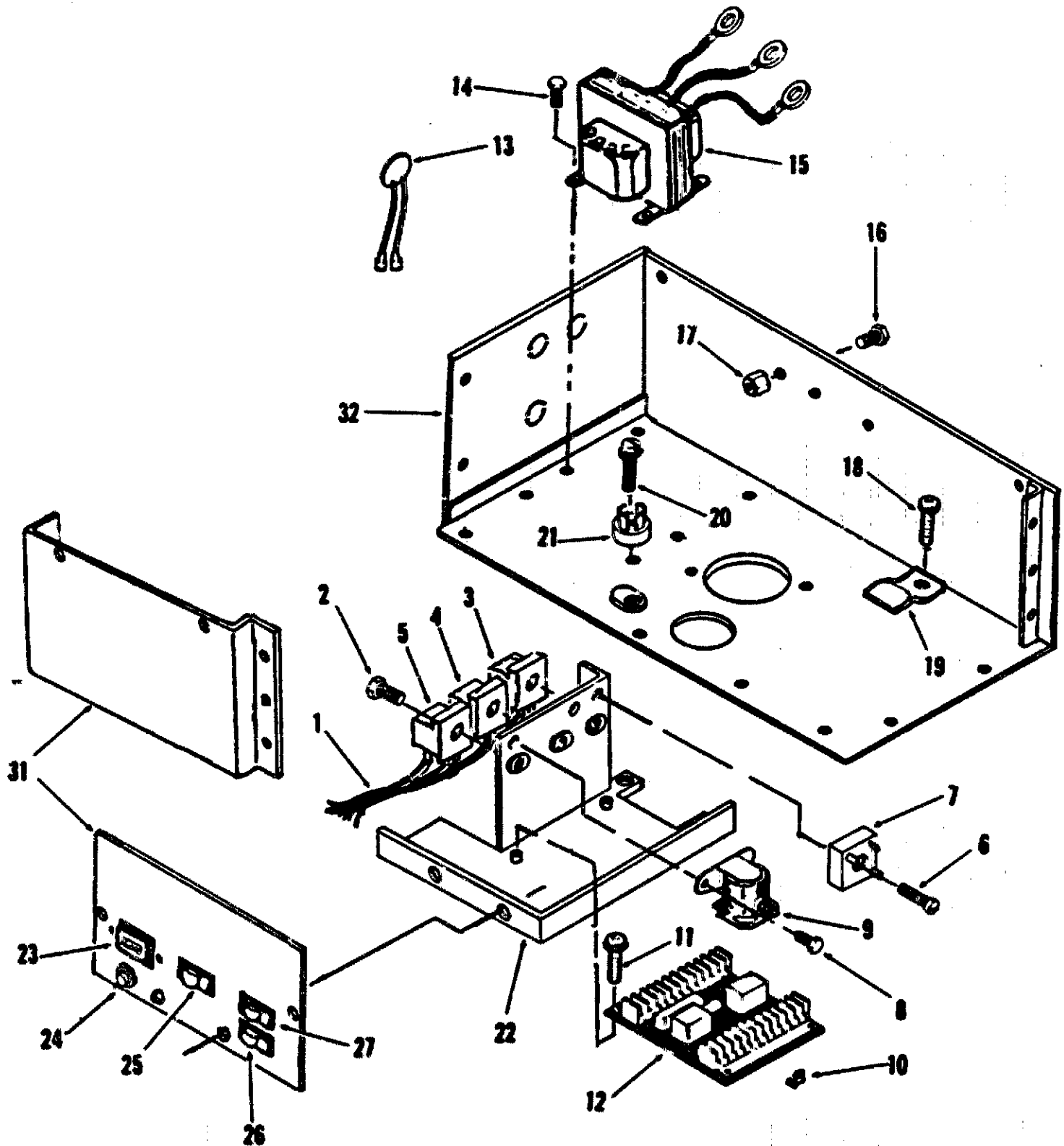
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2252	1	Regulator, Voltage (12 VDC)
	815-0236	4	ATTACHING PARTS FOR REGULATOR Screw, Tapping - Hex Head (5/16-18 x 5/8")
2	185-2424	1	Adaptor, Electrical Connector
3	338-1762	1	Wiring Harness - Engine to Control (Includes Fuse, Fuseholder)
4	321-0113	1	Fuse, Cartridge (30 AMP, 32 VDC, Slo Blo)
5	321-0267	1	Fuseholder (Includes Fuse)

WATER PUMP - EXPLODED VIEW



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	132-0277	4	Pump, Water
2		1	Screw, Self-locking - Hex, with Nylon Tab.
3	132-0282	1	Cover, Pump
4		1	Kit, Replacement - Impeller (Includes items 4 thru 7)
5		1	Gasket
6		1	Impeller
7		1	Screw, Machine - Filister Head
8	132-0281	1	Cam, Pump
		1	Kit, Overhaul - Pump (Includes items 1, 3 and the following non-illustrated parts)
		5	Ring, Retaining
		1	O-Ring
		1	Sealing Assembly
		2	Seal, Cup
		2	Bearing, Ball
		1	Shaft
		1	Slinger

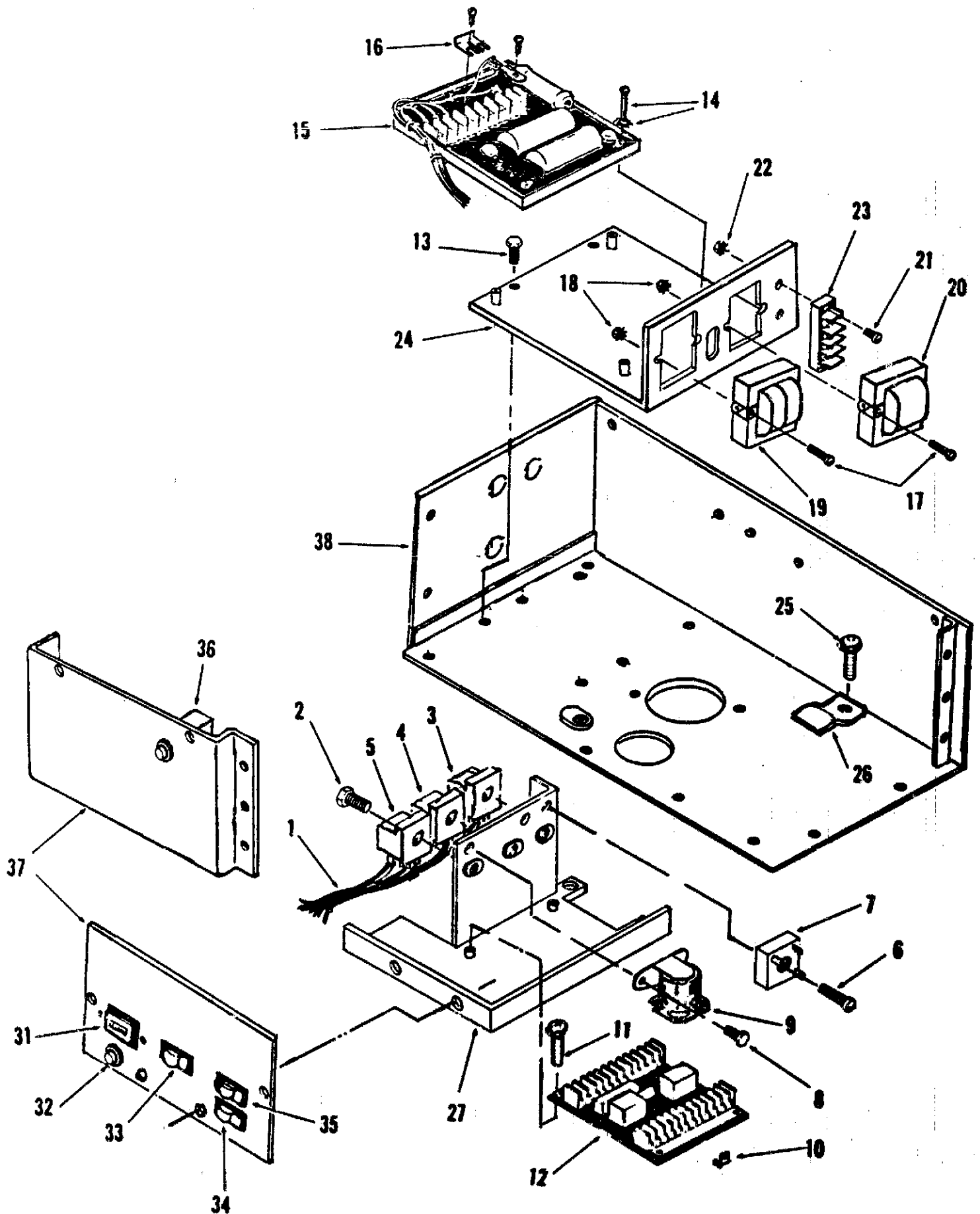
SET CONTROL - SINGLE PHASE



SET CONTROL - SINGLE PHASE

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-1760	1	Wiring Harness - Control (Includes K13,K14,K16 Relays)
2	821-0004	3	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")
3	307-1886	1	Relay (K13)
4	307-1886	1	Relay (K14)
5	307-1886	1	Relay (K16)
6	815-0346	1	Screw, Machine - Round Head, Brass, with ET Lockwasher (#10-32 x 5/8")
7	305-0548	1	Rectifier Bridge (CR11)
8	821-0008	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 5/16")
9	307-1617	1	Solenoid, Electric - 12 VDC (K11)
10	332-1564	2	Terminal, Lug - Right Angle
11	815-0544	4	Screw, Machine - Round Head, Cross- Recessed Drive, with IT Lockwasher (#6-32 x 1/2")
12	300-2604	1	Engine Monitor (A11)
13	305-0703	1	Suppressor, Voltage (RV21)
14	821-0004	4	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")
15			Transformer, Voltage Regulating (T21)
	315-0571	1	60 Hz, 3 to 4 KW
	315-0582	1	50 HZ, 3 to 4 KW
	315-0572	1	60 Hz, 6 to 8 KW
	315-0583	1	50 Hz, 6 to 8 KW
16	821-0008	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 5/16")
17	332-2370	2	Standoff, Insulating - Hex (TB21,22)
18	815-0544	1	Screw, Machine - Round Head, Cross- Recessed Drive, with IT Lockwasher (#5-32 x 1/2")
19	518-0437	1	Clip, Holddown
20	815-0346	1	Screw, Machine - Round Head, Brass, with IT Lockwasher (#10-32 x 5/8")
21	305-0696	1	Rectifier Bridge (CR21)
22	301-8454	1	Tray, Control - Relay Mounting
23	302-0885	1	Meter, Time Totalizing (M11)
			ATTACHING PARTS FOR METER
	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)
			-----*
24	320-1139	1	Circuit Breaker - 1/2 AMP, 50 VDC (CB12)
25	320-1140	1	Circuit Breaker - 15 AMP, 32 VDC, 125 VAC (CB11)
26	308-0778	1	Switch, Rocker (S12) SP, Mom On, 15 AMP, 125VAC
27	308-0739	1	Switch, Rocker (S11) SP, On-Off, 15 AMP, 32 VDC, 125 VAC
31		REF	Panels (See Control Box Assembly Figure for Identification)
32		REF	Control Box (See Control Box Assembly Figure for Identification)

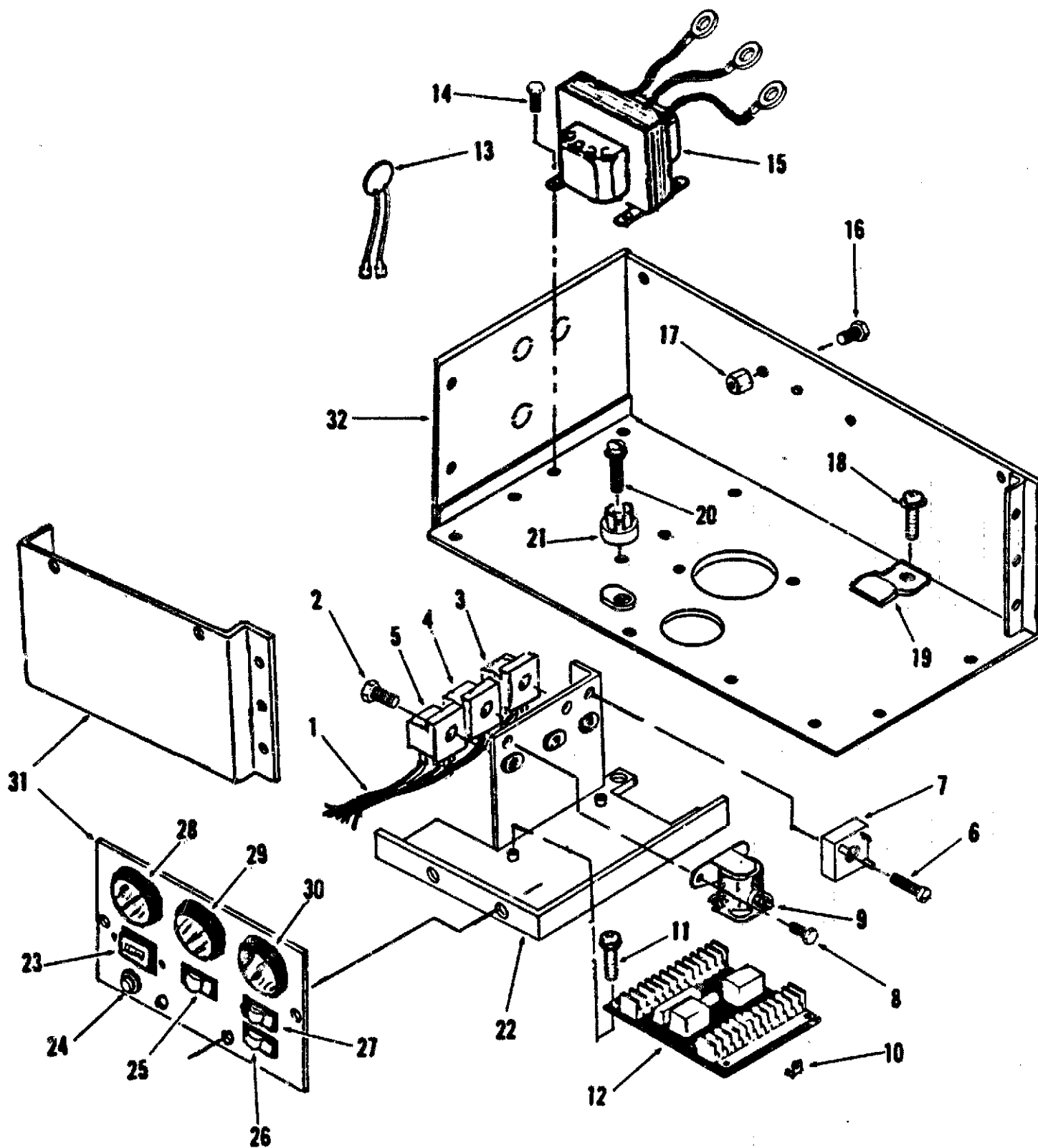
SET CONTROL - THREE PHASE WITH SWITCHING REGULATOR



SET CONTROL - THREE PHASE WITH SWITCHING REGULATOR

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-1760	1	Wiring Harness - Control (Includes K13, K14, K16 Relays)
2	821-0004	3	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")
3	307-1886	1	Relay (K13)
4	307-1886	1	Relay (K14)
5	307-1886	1	Relay (K16)
6	815-0346	1	Screw, Machine - Round Head, Brass, with ET Lockwasher (#10-32 x 5/8")
7	305-0548	1	Rectifier Bridge (CR11)
8	821-0008	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 5/16")
9	307-1617	1	Solenoid, Electric - 12 VDC (K11)
10	332-1564	2	Terminal, Lug - Right Angle
11	815-0544	4	Screw, Machine - Round Head, Cross- Recessed Drive, with IT Lockwasher (#6-32 x 1/2")
12	300-2604	1	Engine Monitor (A11)
13	821-0004	3	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")
14			ATTACHING PARTS FOR REGULATOR
	812-0071	4	Screw, Machine - Round Head (#6-32 x 1-1/2")
	853-0003	4	Washer, Lock - ET (#6)
			-----*
15	305-0688	1	Regulator, Voltage - Switching (VR21)
16	332-2605	1	Jumper, Terminal
17	812-0070	4	Screw, Machine - Round Head (#6-32 x 1-1/4")
18	870-0183	4	Nut, Hex - with ET Lockwasher (#6-32)
19	315-0386	1	Transformer, Voltage Ref (T21)
20	315-0391	1	Reactor (CMR21)
21	812-0063	2	Screw, Machine - Round Head (#6-32 x 1/2")
22	870-0183	2	Nut, Hex - with ET Lockwasher (#6-32)
23	332-1655	1	Terminal Block (TB21)
24	301-3719	1	Panel, Mounting - Regulator
25	815-0544	1	Screw, Machine - Round Head, Cross- Recessed Drive, with IT Lockwasher (#6-32 x 1/2")
26	518-0437	1	Clip, Holddown
27	301-8454	1	Tray, Control - Relay Mounting
31	302-0885	1	Meter, Time Totalizing (M11)
			ATTACHING PARTS FOR METER
	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	Circuit Breaker - 1/2 AMP, 50 VDC (CB12)
33	320-1140	1	Circuit Breaker - 15 AMP, 32 VDC, 125 VAC (CB11)
34	308-0778	1	Switch, Rocker (S12) SP, Mon On, 15 AMP, 125 VAC
35	308-0739	1	Switch, Rocker (S11) SP, On-Off, 15 AMP, 32 VDC, 125 VAC
36	320-1121	1	Circuit Breaker - 3 AMP, 250 VAC (CB21)
37		REF	Panels (See Control Box Assembly Figure for Identification)
38		REF	Control Box (See Control Box Assembly Figure for Identification)

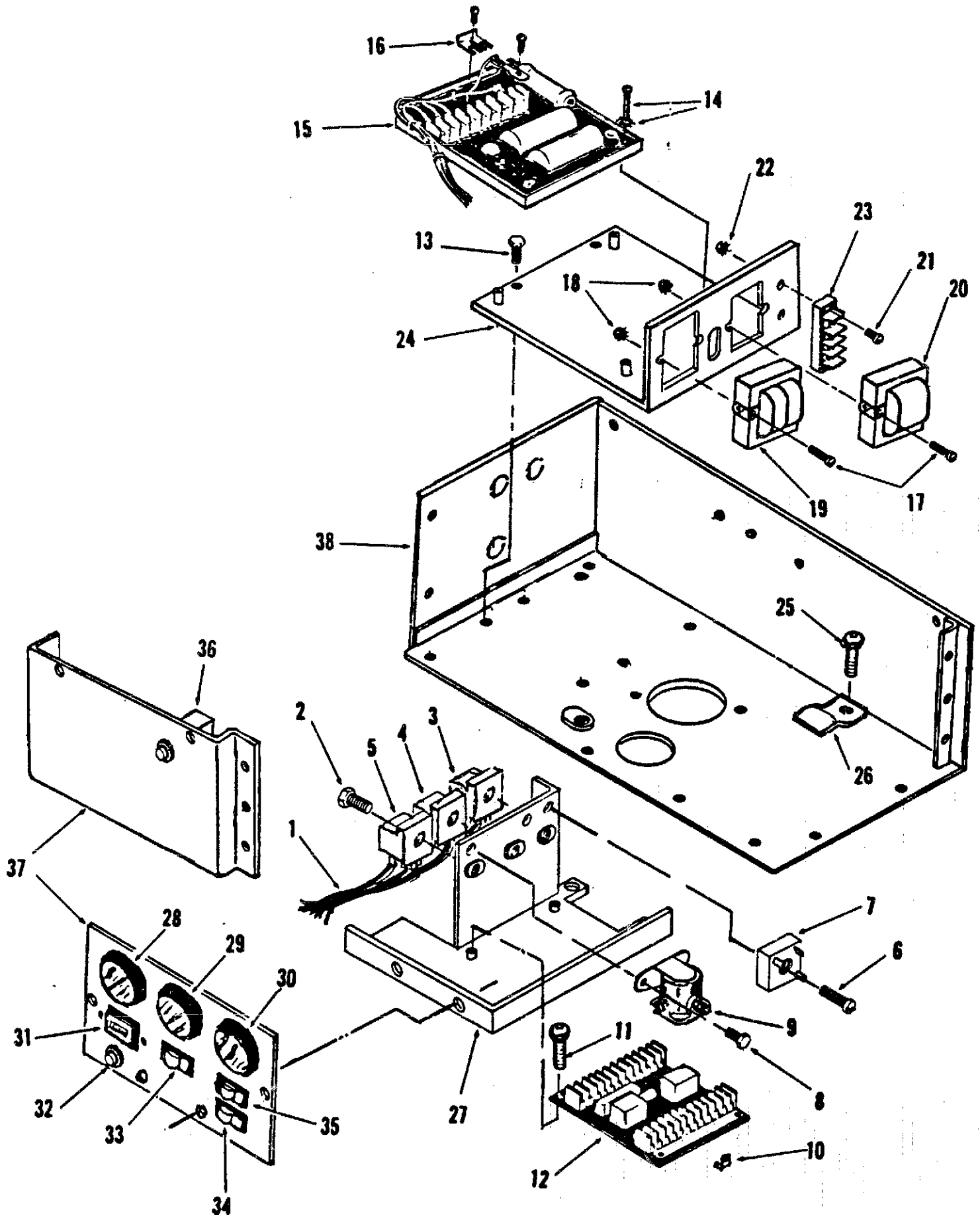
OPTIONAL
SET CONTROL - SINGLE PHASE
WITH DC GAUGES



OPTIONAL SET CONTROL - SINGLE PHASE WITH DC GAUGES

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-1760	1	Wiring Harness - Control (Includes K13,K14,K16 Relays)
2	821-0004	3	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")
3	307-1886	1	Relay (K13)
4	307-1886	1	Relay (K14)
5	307-1886	1	Relay (K16)
6	815-0346	1	Screw, Machine - Round Head, Brass, with ET Lockwasher (#10-32 x 5/8")
7	305-0548	1	Rectifier Bridge (CR11)
8	821-0008	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 5/16")
9	307-1617	1	Solenoid, Electric - 12 VDC (K11)
10	332-1564	2	Terminal, Lug - Right Angle
11	815-0544	4	Screw, Machine - Round Head, Cross- Recessed Drive, with IT Lockwasher (#6-32 x 1/2")
12	300-2604	1	Engine Monitor (A11)
13	305-0703	1	Suppressor, Voltage (RV21)
14	821-0004	4	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")
15			Transformer, Voltage Regulating (T21)
	315-0571	1	60 Hz, 3 to 4 KW
	315-0582	1	50 HZ, 3 to 4 KW
	315-0572	1	60 Hz, 6 to 8 KW
	315-0583	1	50 Hz, 6 to 8 KW
16	821-0008	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 5/16")
17	332-2370	2	Standoff, Insulating - Hex (TB21,22)
18	815-0544	1	Screw, Machine - Round Head, Cross- Recessed Drive, with IT Lockwasher (#6-32 x 1/2")
19	518-0437	1	Clip, Holddown
20	815-0346	1	Screw, Machine - Round Head, Brass, with IT Lockwasher (#10-32 x 5/8")
21	305-0696	1	Rectifier Bridge (CR21)
22	301-8454	1	Tray, Control - Relay Mounting
23	302-0885	1	Meter, Time Totalizing (M11)
			ATTACHING PARTS FOR METER
	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)
			-----*
24	320-1139	1	Circuit Breaker - 1/2 AMP, 50 VDC (CB12)
25	320-1140	1	Circuit Breaker - 15 AMP, 32 VDC, 125 VAC (CB11)
26	308-0778	1	Switch, Rocker (S12) SP, Mom On, 15 AMP, 125VAC
27	308-0739	1	Switch, Rocker (S11) SP, On-Off, 15 AMP, 32 VDC, 125 VAC
28	193-0352	1	Gauge, Oil Pressure (M12)
29	193-0351	1	Gauge, Coolant Temperature (M13)
30	302-1641	1	Voltmeter - 12 VDC (M14)
31		REF	Panels (See Control Box Assembly Figure for Identification)
32		REF	Control Box (See Control Box Assembly Figure for Identification)

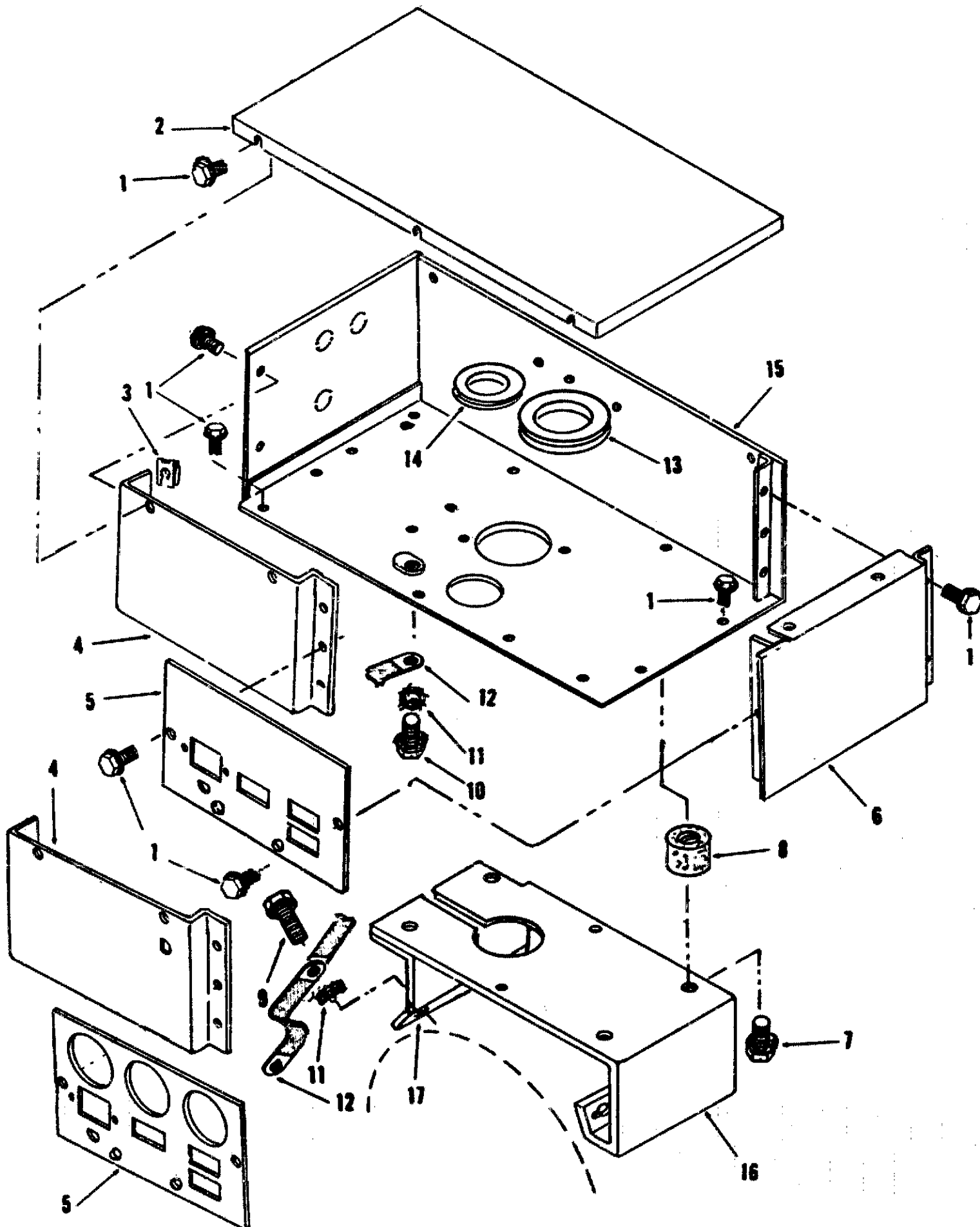
OPTIONAL SET CONTROL - THREE PHASE WITH SWITCHING REGULATOR & DC GAUGES



OPTIONAL SET CONTROL - THREE PHASE WITH SWITCHING REGULATOR & DC GAUGES

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-1760	1	Wiring Harness - Control (Includes K13,K14,K16 Relays)
2	821-0004	3	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")
3	307-1886	1	Relay (K13)
4	307-1886	1	Relay (K14)
5	307-1886	1	Relay (K16)
6	815-0346	1	Screw, Machine - Round Head, Brass, with ET Lockwasher (#10-32 x 5/8")
7	305-0540	1	Rectifier Bridge (CR11)
8	821-0008	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 5/16")
9	307-1617	1	Solenoid, Electric - 12 VDC (K11)
10	332-1564	2	Terminal, Lug - Right Angle
11	815-0544	4	Screw, Machine - Round Head, Cross- Recessed Drive, with IT Lockwasher (#6-32 x 1/2")
12	300-2604	1	Engine Monitor (A11)
13	821-0004	3	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")
14	812-0071	4	ATTACHING PARTS FOR REGULATOR Screw, Machine - Round Head (#6-32 x 1-1/2")
	853-0003	4	Washer, Lock - ET (#6)
15	305-0688	1	Regulator, Voltage - Switching (VR21)
16	332-2605	1	Jumper, Terminal
17	812-0070	4	Screw, Machine - Round Head (#6-32 x 1-1/4")
18	870-0183	4	Nut, Hex - with ET Lockwasher (#6-32)
19	315-0386	1	Transformer, Voltage Ref (T21)
20	315-0391	1	Reactor (CMR21)
21	812-0063	2	Screw, Machine - Round Head (#6-32 x 1/2")
22	870-0183	2	Nut, Hex - with ET Lockwasher (#6-32)
23	332-1655	1	Terminal Block (TB21)
24	301-3719	1	Panel, Mounting - Regulator
25	815-0544	1	Screw, Machine - Round Head, Cross- Recessed Drive, with IT Lockwasher (#6-32 x 1/2")
26	518-0437	1	Clip, Holddown
27	301-8454	1	Tray, Control - Relay Mounting
28	193-0352	1	Gauge, Oil Pressure (M12)
29	193-0351	1	Gauge, Coolant Temperature (M13)
30	302-1641	1	Voltmeter - 12 VDC (M14)
31	302-0885	1	Meter, Time Totalizing (M11)
	815-0544	2	ATTACHING PARTS FOR METER 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	Circuit Breaker - 1/2 AMP, 50 VDC (CB12)
33	320-1140	1	Circuit Breaker - 15 AMP, 32 VDC, 125 VAC (CB11)
34	308-0778	1	Switch, Rocker (S12) SP, Mon On, 15 AMP, 125 VAC
35	308-0739	1	Switch, Rocker (S11) SP, On-Off, 15 AMP, 32 VDC, 125 VAC
36	320-1121	1	Circuit Breaker - 3 AMP, 250 VAC (CB21)
37		REF	Panels (See Control Box Assembly Figure for Identification)
38		REF	Control Box (See Control Box Assembly Figure for Identification)

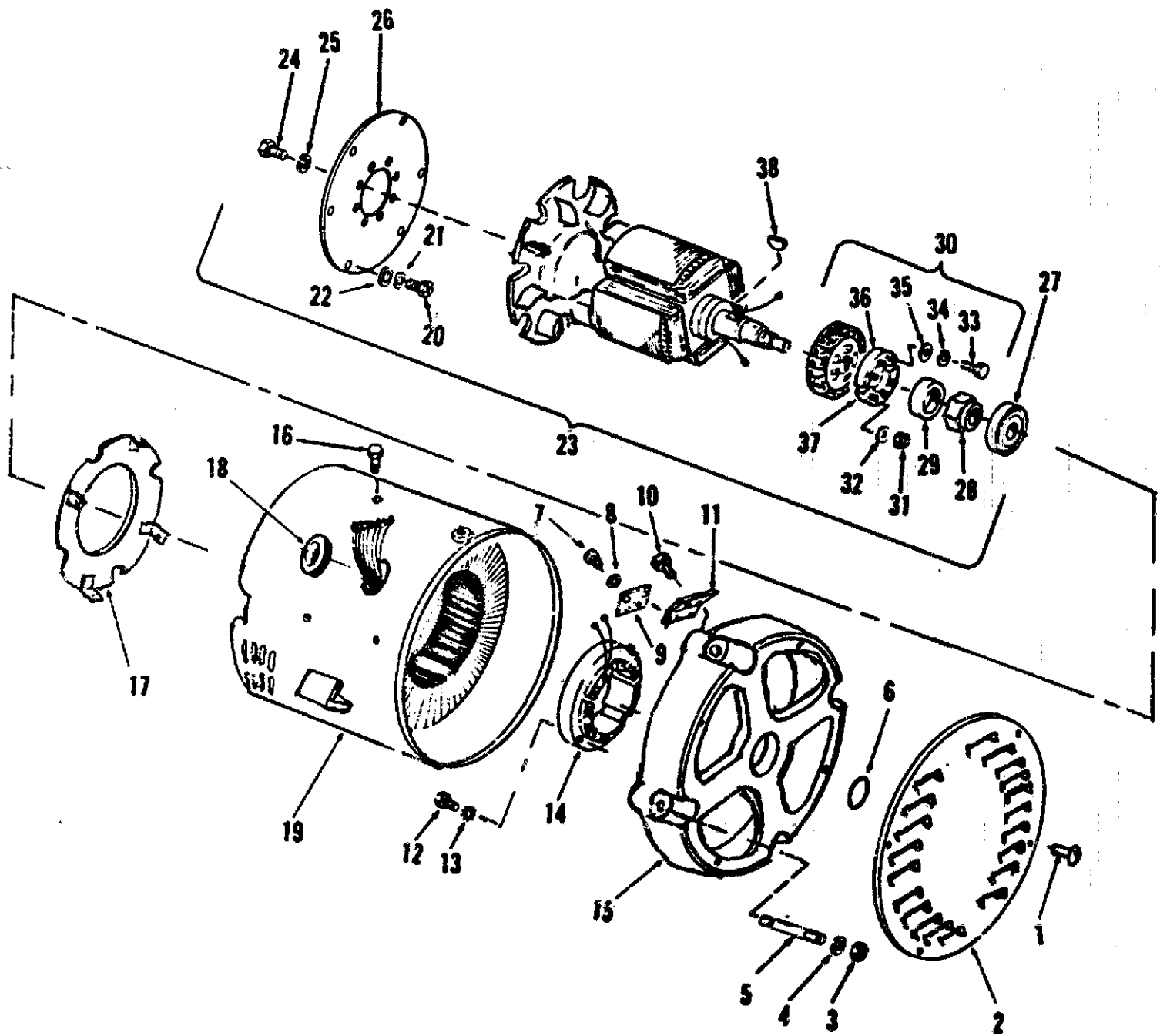
CONTROL BOX ASSEMBLY



CONTROL BOX ASSEMBLY

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0005	16	Screw, Self-locking - Hex Washer Head (#10-32 x 1/2")
2	301-8447	1	Cover, Control
3	870-0398	6	Nut, Retaining (#10-32)
4	301-8445	1	Panel, Gen Control
	301-8569	1	Panel, Gen Control with Circuit Breaker Hole
5	301-8451	1	Panel, Engine Control
	301-8452	1	Panel, Engine Control with DC Gauge Holes
6	301-8450	1	Panel, Blank
7	821-0004	4	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")
8	402-0527	4	Mount, Vibration
9	815-0334	4	Screw, Tapping - Hex Washer Head (5/16-18 x 3/4") or use
	821-0016	4	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")
10	821-0004	1	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")
11	856-0008	2	Washer, Lock - EIT(5/16")
12	337-0049	2	Strap, Electrical-Ground
13	508-0115	2	Grommet (2-1/8"ID x 2-7/8"OD)
14	508-0117	1	Grommet (1-1/8"ID x 1-3/8"OD)
15	301-8453	1	Box, Control
16	301-8446	1	Saddle - Control Mounting
17	301-8634	1	Support - Saddle

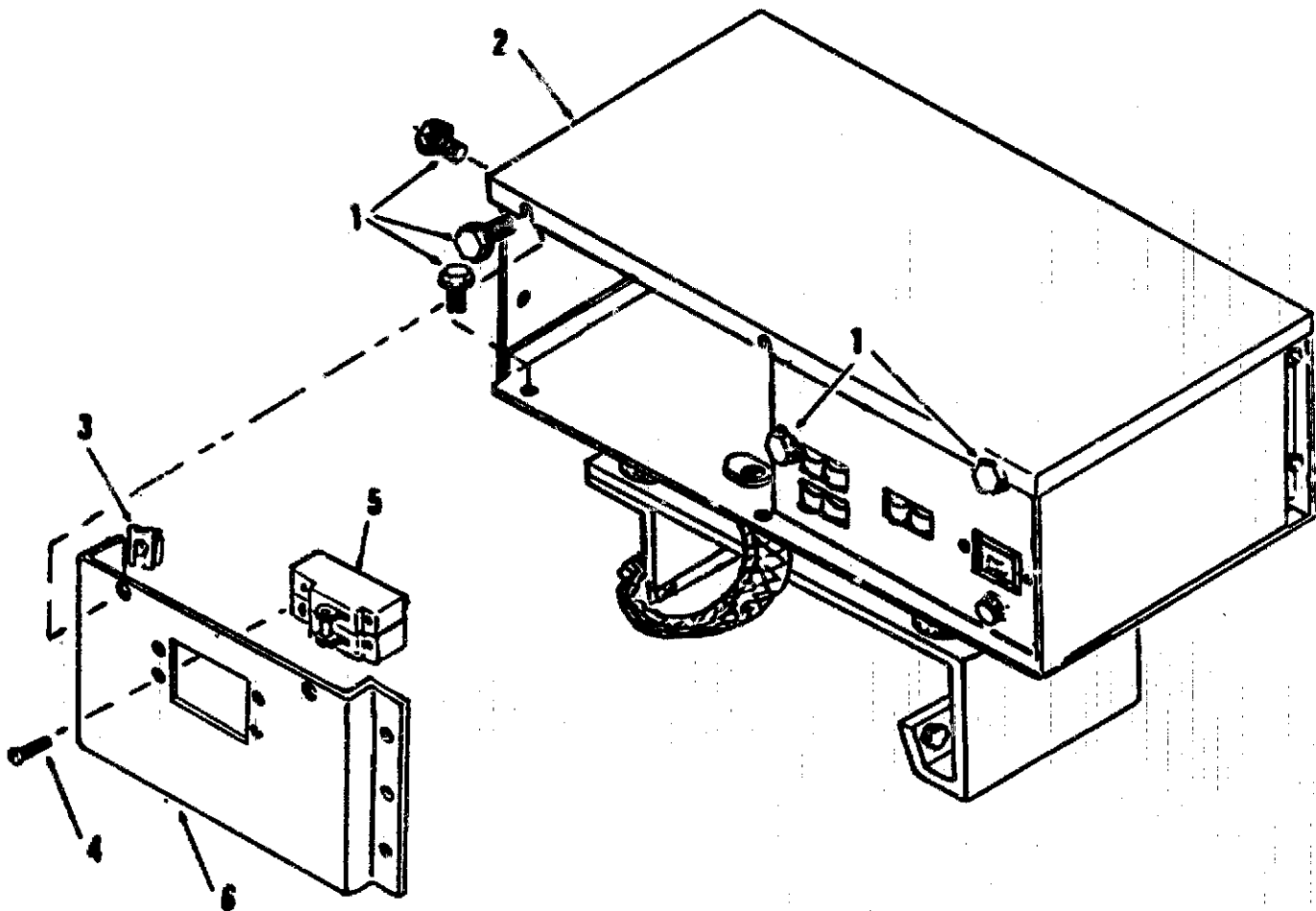
GENERATOR ASSEMBLY



GENERATOR ASSEMBLY

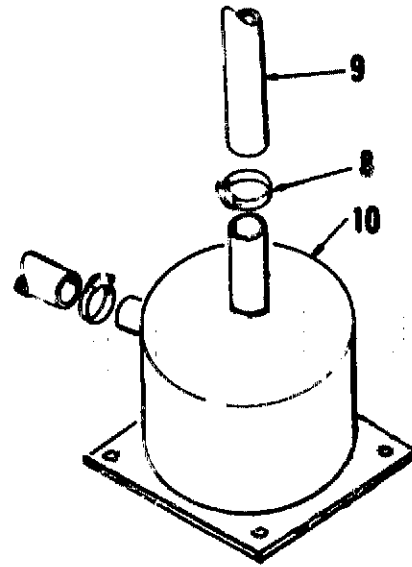
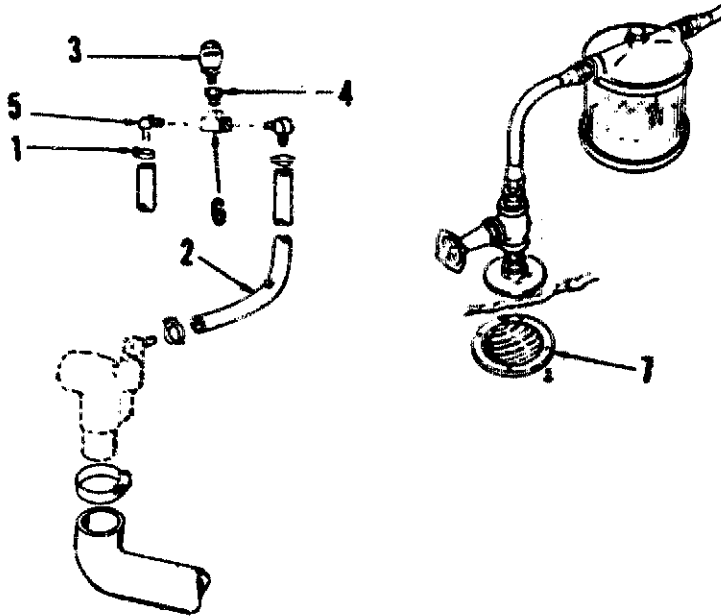
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0100	4	Screw, Machine - Round Head (#10-32 x 1/2")
2	234-0767	1	Cover, End Bell
3	862-0011	4	Nut, Hex (3/8-16)
4	850-0050	4	Washer, Lock - Spring (3/8")
5	520-0935	4	Stud (3/6-16 UNC x 13"LG)
	520-0936	4	Stud (3/8-16 UNC x 13-3/4"LG)
6	509-0094	1	O-Ring
7	813-0098	2	Screw, Machine - Round Head (#10-32 x 3/8")
8	856-0003	2	Washer, Lock - EIT (#10)
9	232-2418	1	Terminal Board
10	815-0194	2	Screw, Tapping - Hex Head W/ET Lockwasher (#10-32 x 3/8")
11	232-3038	1	Bracket, Mounting - Terminal Board
12	800-0009	2	Screw, Cap - Hex Head (1/4-20 x 1-1/2")
13	853-0013	2	Washer, Lock - ET (1/4")
14	220-2009	1	Stator, Exciter
15	211-0370	1	End Bell
16	821-0015	4	Screw, Self-locking - Hex Washer Head (1/4-20 x 3/4")
17	234-0766	1	Baffle, Air
18	508-0183	1	Grommet (1-1/2"ID x 2-1/8"OD)
19	220-3903	1	Stator, Gen; 4KW, Code 3C
	220-3904	1	Stator, Gen; 7.5 - 8KW, Code 3C
	220-3911	1	Stator, Gen; 3.5KW, Code 53C
	220-3912	1	Stator, Gen; 6.0 - 6.5KW, Code 53C
	220-3920	1	Stator, Gen; 4KW, Code 18
	220-3921	1	Stator, Gen; 7.5 - 8KW, Code 18
	220-3928	1	Stator, Gen; 3.5KW, Code 518
	220-3929	1	Stator, Gen; 6.0 - 6.5KW, Code 518
20	718-1036	6	Screw, Cap - Hex Head (M8 x 1.25 x 20MM)
21	850-2008	6	Washer, Lock - Spring (M8)
22	526-0115	6	Washer, Flat (11/32"ID x 11/16"OD x 1/16"THK)
23			ROTOR ASSEMBLY, GEN (Includes items 24 thru 37)
	201-3129	1	6.0 thru 8.0KW, Codes 3C, 18, 518
	201-3130	1	3.5 thru 4.0KW, Codes 3C, 33C, 18, 518
24	805-0015	6	Bolt, Hex - Slotted - Grade 8 (3/8-16 x 3/4")
25	526-0029	6	Washer, Flat (3/8")
26	232-3015	1	Disk, Drive
27	510-0112	1	Bearing, Ball
28	870-0284	1	Nut, Self-locking, Hex (1-1/8 - 12)
29	232-3017	1	Spacer, Sleeve
30	201-2151	1	Rotor Assembly, Exciter (Includes items 29 thru 35)
31	870-0131	6	Nut, Self-locking, Hex with ET Lockwasher (#10-32)
32	526-0008	6	Washer, Flat (13/64"ID x 7/16"OD x 1/32"THK)
33	813-0100	4	Screw, Machine - Round Head (#10-32 x 1/2")
34	853-0008	4	Washer, Lock - ET (#10)
35	526-0008	4	Washer, Flat (13/64"ID x 7/16"OD x 1/32"THK)
36	358-0069	1	Rectifier Assembly - Positive
37	358-0070	1	Rectifier Assembly - Negative
38	515-0094	1	Key, Woodruff (#6)

OPTIONAL CIRCUIT BREAKER



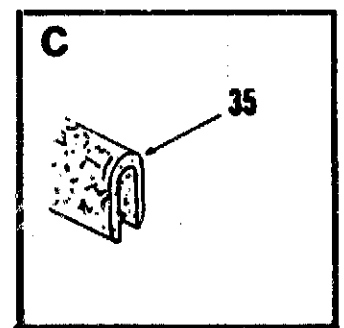
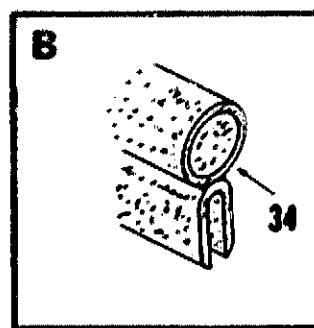
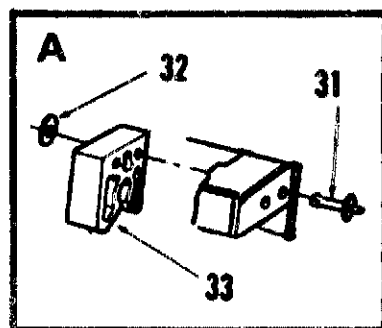
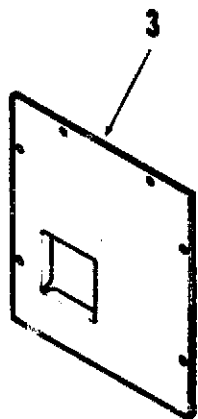
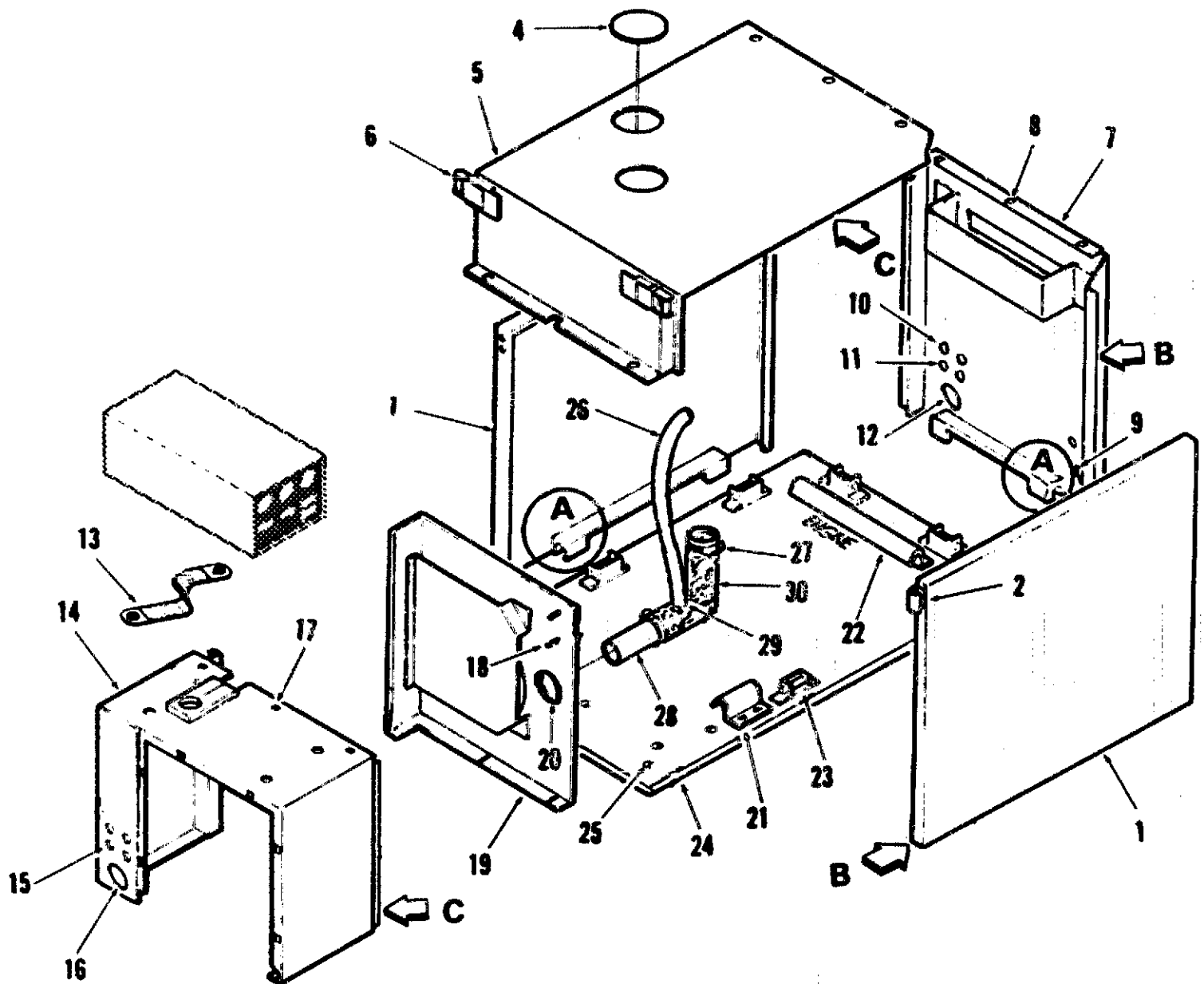
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0005	11	Screw, Self-locking - Hex Washer Head (#10-32 x 1/2")
2	301-8447	1	Cover, Control
3	870-0398	6	Nut, Retaining (#10-32)
4	812-0063	4	Screw, Machine - Round Head (#6-32 x 1/2")
5			CIRCUIT BREAKER (Select)
			SINGLE PHASE
	320-1244	1	18 AMP, 240 VAC
	320-1245	1	20 AMP, 240 VAC
	320-1246	1	35 AMP, 240 VAC
	320-1247	1	40 AMP, 240 VAC
6	301-8568	1	Panel, Circuit Breaker

OPTIONAL AQUALIFT EXHAUST SYSTEM



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0685	4	CLAMP, HOSE (Select)
	503-0446	4	3/8" to 1/2" Hose Size
	503-0547	4	7/16" to 3/4" Hose Size
	503-0183	4	1/2" to 7/8" Hose Size
	503-0398	4	9/16" to 1-1/16" Hose Size
2	503-0890	4	13/16" to 1-3/4" Hose Size
	503-0658	2	HOSE, RUBBER (Select)
	503-0803	2	1/2" ID x 27/32"OD x 24"LG
	503-1163	2	1/2" ID x 27/32"OD x 48"LG
	503-1202	2	1/2" ID x 27/32"OD x 144"LG
3	504-0062	2	1"ID x 1-3/8"OD x 24"LG
4	502-0270	2	1"ID x 1-3/8"OD x 72"LG
5	502-0237	1	Valve, Vacuum Relief (1/2"NPT)
6	502-0881	1	Adapter, Hex - Brass
7	502-0090	1	(3/8"NPT x 1/2"NPT)
8	502-0883	1	ELBOW, PIPE TO HOSE (Select)
9	155-1002	2	1/2"NPT x 3/8"ID Hose
		2	3/4"NPT x 1"ID Hose
		1	TEE, PIPE - BRASS (Select)
		1	3/8"NPT - three places
		1	3/4"NPT x 3/4"NPT x 1/2"NPT
		1	Strainer, Water - Thru Hull
		1	CLAMP, HOSE (Select)
		8	1-1/16" to 2" Hose Size
		8	1-9/16" to 2-1/2" Hose Size
		8	1-13/16" to 3" Hose Size
		8	2-1/2" to 3-1/4" Hose Size
		8	2-9/16" to 3-1/2" Hose Size
		8	3-5/16" to 4-1/4" Hose Size
		8	4" to 4-3/4" Hose Size
		1	HOSE, EXHAUST - MARINE (Select)
		1	1-5/8"ID x 2-1/32"OD x 120"LG
		1	1-7/8"ID x 2-9/32"OD x 120"LG
		1	2"ID x 2-13/32"OD x 120"LG
		1	2-1/4"ID x 2-5/8"OD x 120"LG
		1	2-1/2"ID x 2-15/16"OD x 120"LG
		1	2-7/8"ID x 3-7/16"OD x 120"LG
		1	3-1/2"ID x 4-3/32"OD x 120"LG
		1	MUFFLER, EXHAUST - MARINE "AQUALIFT"
		1	2" OD Inlet/Outlet Tubes
		1	2-1/4"OD Inlet/Outlet Tubes
		1	2-1/2"OD Inlet/Outlet Tubes
		1	2-7/8"OD Inlet/Outlet Tubes
		1	3-1/2"OD Inlet/Outlet Tubes

OPTIONAL SOUND SHIELD ASSEMBLY



OPTIONAL SOUND SHIELD ASSEMBLY

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-3286	2	Door Assembly (Includes Latch Strikes and Pivot Clips "A")	17	870-0414	9	Nut, Retainer-CRES (1/4-20)
2	406-0528-01	2	Strike, Latch	18		REF	Regulator, Voltage - DC (See Separate Figure for Parts)
	818-0194	4	ATTACHING PARTS FOR STRIKES Rivet, Stainless Steel		870-0154	2	Nut, Hex-CRES (1/4-20)
3	405-3282	1	Panel, Rear - Housing (Includes Edging Seal "B")		854-1014	2	Washer, Lock - IT, CAD PL (1/4")
	800-0708	6	ATTACHING PARTS FOR PANEL Screw, Cap - Hex Head, CRES (1/4-20 x 1/2")	19	405-3273	1	Baffle Assembly (includes Grommet)
	854-1014	6	Washer, Lock - IT, CAD PL (1/4")		800-0730	3	ATTACHING PARTS FOR BAFFLE Screw, Cap - Hex Head, CRES (5/16-18 x 1")
4	405-3292	2	Cover, Access		856-1008	3	Washer, Lock - EIT, CAD PL (5/16")
5	405-3290	1	Roof Assembly (Includes Latch Catches and Edging Seal "C")	20	508-0055	1	Grommet
	800-0708	6	ATTACHING PARTS FOR ROOF Screw, Cap - Hex Head, CRES (1/4-20 x 1/2")	21	405-3262	2	Bracket, Holddown - Drip Pan
	854-1014	6	Washer, Lock - IT, CAD PL (1/4")		800-0730	4	ATTACHING PARTS FOR BRACKETS Screw, Cap - Hex Head, CRES (5/16-18 x 1")
6	406-0528-02	2	Catch, Latch		856-1008	4	Washer, Lock - EIT, CAD PL (5/16")
	818-0194	4	ATTACHING PARTS FOR CATCHES Rivet, Stainless Steel	22	405-1265	1	Clamp, Drip Pan
7	405-3279	1	Panel Assembly, Front (Includes Grommets, Plugs, Pivot Clips, Retained Nuts, Edging Seal "B")		800-0730	3	ATTACHING PARTS FOR CLAMP Screw, Cap - Hex Head, CRES (5/16-18 x 1")
8	870-0414	3	Nut, Retainer-CRES (1/4-20)		856-1008	3	Washer, Lock - EIT, CAD PL (5/16")
9	508-0055	1	Grommet	23	405-3298	6	Bracket, Pivot Pin
10	517-0137	2	Plug, Button		800-0730	12	ATTACHING PARTS FOR BRACKETS Screw, Cap - Hex Head, CRES (5/16-18 x 1")
11	508-0071	4	Grommet		856-1008	12	Washer, Lock - EIT, CAD PL (5/16")
12	517-0216	1	Plug, Button	24	405-3261	1	Base, Mounting - Sound Shield (Includes Tee Nuts)
13	337-2161	1	Strap, Ground - Electrical		503-1329	REF	Nut, Tee (5/16-18) HOSE ASSEMBLY, INTAKE (Individual Parts Sold Separately)
	800-0730	1	ATTACHING PARTS FOR STRAP Screw, Cap - Hex Head, CRES (5/16-18 x 1")	25	870-0413	29	Hose, Rubber-Breather (Trim to I)
	856-1008	2	Washer, Lock - EIT, CAD PL (5/16")		503-1275	1	Clamp, Hose
14	405-3268	1	Housing Assembly (Includes Grommets, Plugs, Retained Nuts and Edging "C")		503-0429	2	Tube, Metal - Air
	800-0730	4	ATTACHING PARTS FOR HOUSING Screw, Cap - Hex Head, CRES (5/16-18 x 1")	26	140-1914	1	Connector, Tube
	856-1008	4	Washer, Lock - EIT, CAD PL (5/16")	27	123-0733	1	ATTACHING PART FOR CONNECTOR Retainer-Spring Grip
15	517-0137	4	Plug, Button		851-0011	1	Hose, Elbow - Air
16	508-0235	1	Grommet	30	503-1332	1	Rivet, Drive Pin (Two per Clip)
				31	818-0150	AR	Washer, Flat (11/64"ID x 3/8"OD x 1/32"THK)
				32	526-0003	AR	Clip, Door - Plastic
				33	405-3152	AR	Seal, Edging (Available in Multi Foot Lengths)
				34	508-1011	AR	Seal, Edging (Available in Multi Foot Lengths)
				35	508-0219	AR	

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185-2306	1	Kit, Gasket (MDKC, DKC)
	185-2313	1	Kit, Gasket (MDKD, DKD)
	405-3259	1	Kit, Sound Shield(MDKC,MDKD)