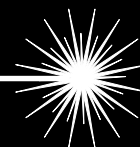




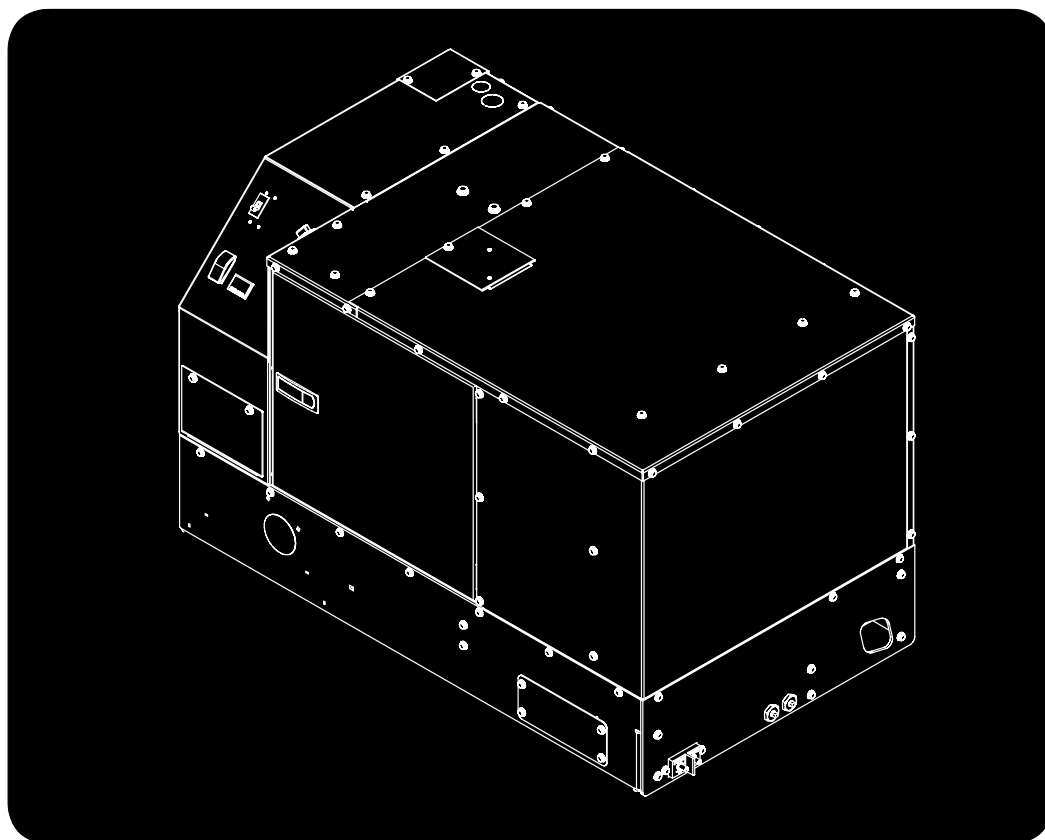
Commercial Mobile Power



Parts Manual

HDKCC Spec A-B

HDKCD Spec A-B



Printed in U.S.A.

981-0278B 11/06

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.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

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



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



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



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

PRODUCT SAFETY PRECAUTIONS



Service and repair of Onan equipment must be performed by trained, experienced personnel only. Improper service or repair may result in property damage, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.



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.



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!



Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state 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 protective clothing!

PSP-1

Introduction

This parts catalog applies to the standard generator sets listed below. Parts are arranged in groups of related items and each illustrated part is defined by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Using the model and specification number from your generator set nameplate, select parts that apply to your set. Right and left sides are determined by facing the engine end (front) of the set.

Generator Set Data Table

Model Identification	Rating	Wiring Diagram AC/DC	Voltage	Hertz	Phase
8.0HDKCC6154B*	8,000 Watts	630-2854	120/240	50	1
10.0HDKCC4512A*	10,000 Watts	630-2676	120/240	60	1
10.0HDKCC4512B*	10,000 Watts	630-2854	120/240	60	1
10.0HDKCC42345A*	10,000 Watts	630-2676	120/240	60	1
10.0HDKCC42345B*	10,000 Watts	630-2854	120/240	60	1
12.0HDKCD2209A*	12,500 Watts	630-2676	120/240	60	1
12.0HDKCD5241B*	12,500 Watts	630-2854	120/240	60	1

* – The specification number denotes customer requested options or deviations from a standard (1A, 1B, etc.) model. The specification letter advances (A, to B, to C, etc.) with major manufacturing changes.

Index

Adapter, Generator, **43**
Adapter, Oil Filter, **20**
Adapter, Oil Filter (Nut), **20**
Adapter, Tube, **20**
Alternator, **34**
Arm, Rocker, **12**
Arm, Tensioner, **34**
Assy Bearing, Main Case, **8**
Assy Head, Cylinder, **7**
Assy Holder, Starter Brush, **16**
Assy lever, Fork, **13**
Assy, Drip Pan, **39**
Assy, Bearing Case Wheel, **8**
Assy, Connector Rod, **9**
Assy, Coupling, **34**
Assy, Door, **40**
Assy, Overflow Pipe, **22**
Assy,Camshaft, Fuel, **25**

Backplate, Fan, **29**
Baffle, Air, **29**
Ball, **9, 14, 25**
Ball, Starter Steel, **16**
Base, Oil, **21**
Base, Remote Filter, **20**
Bearing, **31**
Bearing, Ball, **10, 25**
Bearing, Starter Ball, **16**
Belt, Drive, **34, 35**
Block, AC Terminal, **46**
Block, Battery Harness Terminal, **46**
Block, Cylinder, **6**
Block, Generator Brush, **43**
Body, Water Pump, **31**
Bolt, **8, 10**
Bolt, Bearing Case, **8**
Bolt, Connector Rod, **9**
Boot, Circuit Breaker, **41**
Bracket, Alternator, **34**
Bracket, Control, **44**
Bracket, Engine, **19**
Bracket, Engine (Back Assy), **39**
Bracket, Engine (Front Assy), **39**
Bracket, Fill Tube, **30**
Bracket, Fuel Filter, **26**
Bracket, Rocker Arm, **12**
Bracket, Tensioner, **34**
Breaker, Circuit, **41**
Brush, Generator, **43**
Bush, Crankshaft, **9**
Bush, idle Gear, **10**
Bush, Piston Pin, **9**
Bushing, Tensioner, **34**

Camshaft, **10**
Camshaft, Fuel, **25**
Camshaft, Fuel , **25**
Cap, Fill, **30**
Cap, Oil Fill, **19**
Cap, Push-On, **30**
Cap, Seal, **14**
Cap, Sealing, **6, 7**
Cap, Valve, **12**
Case, Governor Ball, **25**
Case, Main Bearing , **8**
Circle Clip, **25**
Circle Clip, External, **25**
Circle Clip, Governor Sleeve, **25**
Circle, Clip, **10**
Circular, Clip, Internal, **9**
Clamp, Cord, **22**
Clamp, Fuel System Hose, **26**
Clamp, Hose, **11, 26, 28, 30, 32**
Clamp, Pipe, **22**
Cleaner, Air, **28**
Clip, Pipe, **22, 23**
Clutch, Starter, **16**
Collar, **10, 25**
Collar, Camshaft, **9**
Collar, Valve Seat, **14**
Collet, Valve Spring, **12**
Comp. Crankcase, **6**
Comp, Crankshaft, **9**
Comp, Flange Water, **32**

Index

Comp, Gear Idle, **10**
Comp, Valve Breather, **11**
Components, Injection Nozzle, **24**
Components, Injection Pump, **23**
Components, Starter, **16**
Connector, Fuel Hose, **26**
Connector, Male, **20**
Control, **44**
Cord, Glow Plug, **22**
Cover, **14**
Cover, Bearing Case, **8**
Cover, Breather, **11**
Cover, Brush Block, **40**
Cover, Control, **44**
Cover, Cylinder Head, **11**
Cover, Fuel Camshaft, **25**
Cover, Fuel Pump, **39**
Cover, Housing AC, **41**
Cover, Injector Pump, **23**
Cover, Plate Governor, **13**
Cover, Thermostat, **32**
Cranking, Metal, **9**
Crankshaft, **9**
Crankshaft, Nut, **9**

Dipstick, Oil , **18**
Disc, Generator Drive, **43**
Duct, Air, **29**

Edging, Stator Housing, **43**
Elbow, 90, **26**
Elbow, Tube, **20**
End, Cap Skid, **39**
Endbell Generator, **43**
Engine, Replacement, **6**
Exhaust System, **37**

Fan, Generator, **43**
Fan, Sucker, **29**
Fill, Remote Oil, **20**
Filter, Fuel, **26**
Filter, Oil, **20**
Filter, oil, **21**
Fitting, Bulkhead, **26**
Flange, w/ Pump Shaft, **31**
Flange, Water, **32**
Flange, Water Return, **14**
Flywheel, **15**
Frame, Door, **40**

Gasket, **6, 21, 22, 23, 24, 25**
Gasket, Bearing Case, **8**
Gasket, Case Cover, **8**
Gasket, Cylinder Head, **7**
Gasket, Cylinder Head Cover, **11**
Gasket, Exhaust Manifold, **36, 37**
Gasket, Gear Case, **14**
Gasket, Hourmeter Unit, **14**
Gasket, Oil Fill, **19**
Gasket, Oil Filter, **20**
Gasket, Oil Pan, **21**
Gasket, Oil Pump, **17**
Gasket, Pump Cover, **23**
Gasket, Return Flange, **14**
Gasket, Thermostat, **32**
Gasket, Water Flange, **32**
Gasket, Water Pump, **31**
Gauge, Oil, **18**
Gear, Cam, **10**
Gear, Crankshaft, **9**
Gear, Idle, **10**
Gear, Injection Pump, **25**
Gear, Oil Pump Drive, **17**
Gearcase, **14**
Generator, **43**
Governor, **13**
Governor, Actuator, **13**
Grommet, **39**
Grommet, Engine Harness, **45**
Guard, Fan, **43**
Guide, Exhaust Valve, **7**
Guide, Inlet Valve, **7**
Guide, Oil Gauge, **18**

Index

- Harness, AC, **46**
- Harness, Adapter, **50**
- Harness, Battery , **46**
- Harness, Engine, **45**
- Harness, Remote, **50**
- Harness, Remote Panel, **50**
- Harness, Remote Panel (Switch Only), **47**
- Harness, Remote Switch / Voltmeter Panel, **49**
- Harness, Remote Switch/Hourmeter Panel , **48**
- Harnesses, Remote, **50**
- Head, Cylinder, **7**
- Holder, Fork Lever, **13**
- Holder, Nozzle, **22, 24**
- Hook, Engine, **7**
- Hose, Air Bleed, **30**
- Hose, Coolant, **30**
- Hose, Fill, **30**
- Hose, Fuel, **26**
- Hose, Intake, **28**
- Hose, Overflow, **30**
- Hose, Remote Oil Fill, **20**
- Hourmeter (Remote Switch / Hourmeter Panel), **48**
- Housing, **40**
- Housing End Cap, **41**
- Housing, Flywheel, **15**
- Hub, Bearing Pulley, **34**
- Hub, Bearing Tensioner, **34**

- Impeller, Water Pump, **31**
- Insulation, Baffle, **29**
- Insulation, Duct, **29**
- Insulation, Outlet, **29, 39**
- Insulation, Outlet (Duct), **29**
- Isolator, Vibration, **39**

- Joint, Eye, **23**
- Joint, Pipe, **14**

- Key, Feather, **9, 10, 17, 25**
- Kit, Remote Panel (Switch Only), **47**
- Kit, Remote Panel (Switch/Voltmeter), **49**
- Kit, Remote Panel Switch/Hourmeter, **48**

- Labels, **51**
- Lever, Fork, **13**
- Line, Fuel, **26**

- Manifold Inlet, **27**
- Manifold, Exhaust, **36**
- Manifold, Exhaust , **36**
- Manifold, Intake , **27**
- Metal, Crankshaft, **8, 9**
- Metal, Side, **9**
- Meter ,Voltage (Remote Panel), **49**
- Meter, Hour Housing, **41**
- Mounting, Fan, **29**
- Mounting, Radiator, **39**
- Muffler, **37**

- Neck, Coolant Fill, **30**
- Nipple, Pipe, **20**

- O'Ring, **9, 11, 14, 21**
- O'Ring, Radiator Plug, **30**
- O'Ring, Starter, **16**
- Orifice, **23**

- Pan, Oil, **21**
- Panel Assy, Housing Top, **40**
- Panel, Access, **40**
- Panel, Enclosure, **40**
- Panel, Enclosure (Top), **40**
- Panel, End Cap, **40**
- Panel, Remote Switch, **47**
- Panel, Remote Switch / Hour Meter Panel, **48**
- Panel, Remote Switch / Voltmeter Panel, **49**
- PCB (Control), **44**
- Piece, Distance, **24**
- Piece, Nozzle, **22, 24**
- Pin, Dowel, **15**
- Pin, Pipe, **6**
- Pin, Piston, **9**
- Pin, Spring, **12**
- Pin, Straight, **6, 14**
- Pinion, Starter, **16**

Index

Pipe, Flex Exhaust, **37**
Pipe, Fuel, **23**
Pipe, Injection, **22**
Pipe, Water Return, **11, 27, 32**
Piston, **9**
Plate, Bulkhead, **29**
Plug, **6, 7, 14**
Plug, Expansion, **6**
Plug, Hole, **39**
Plug, Oil Filler, **11**
Plug, Oil Gauge, **18**
Plug, Pipe, **26**
Pug, Glow, **22**
Pulley, Tensioner, **34**
Pulley, Water Pump, **34**
Pump, Fuel, **26**
Pump, Injection, **22**
Pump, Oil, **17**
Pump, Water, **31**
Pump, Water , **31**
Push, Rod, **24**

Radiator, **30**
Relay, **45**
Resonator, Intake, **27, 28**
Retainer, Starter, **16**
Retainer, Valve Spacer, **12**
Rod, Push, **10**
Roller, Starter Clutch, **16**
Rotor, Generator, **43**

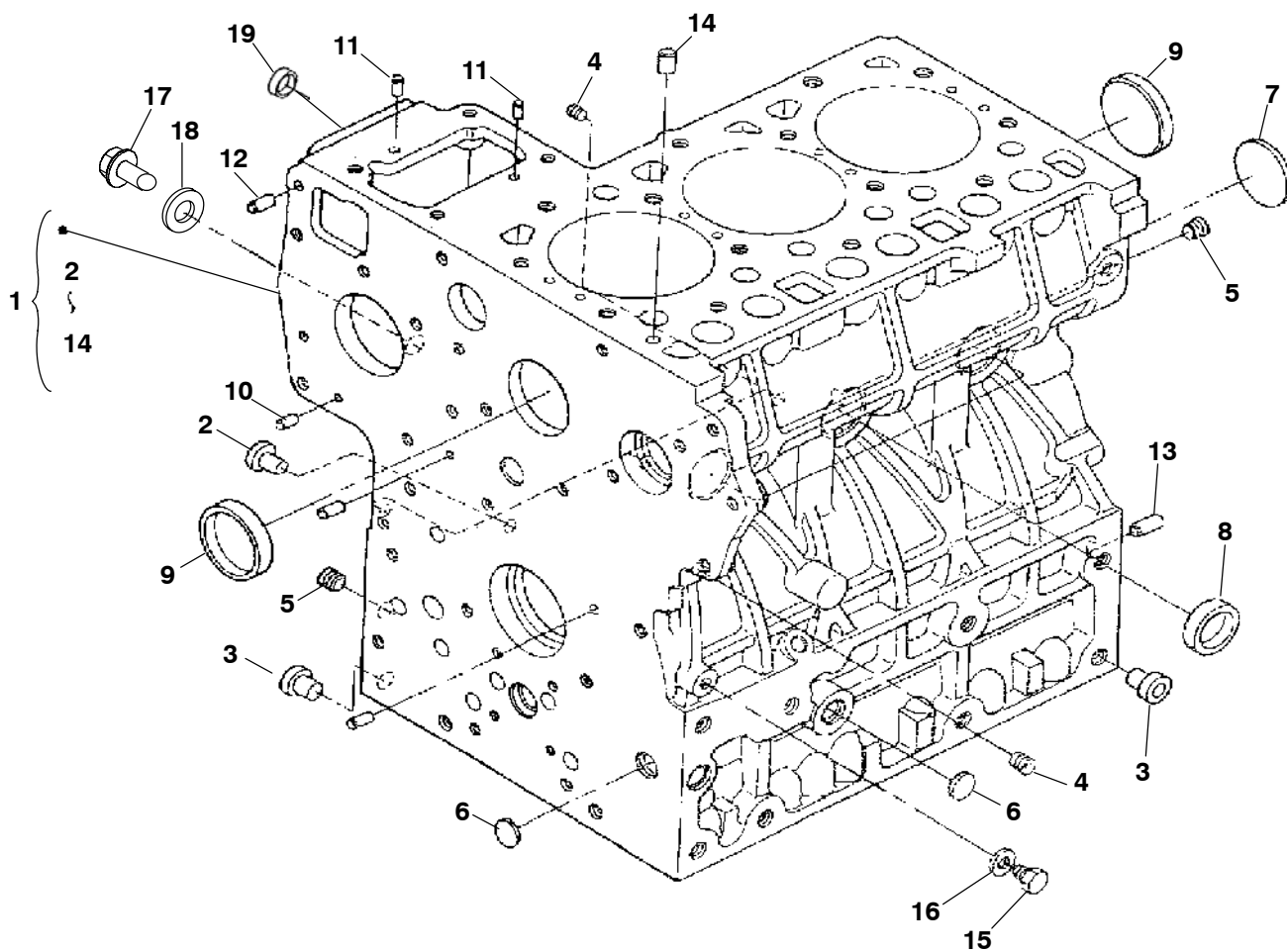
Seal, Heat, **22, 24**
Seal, Oil, **8, 9**
Seal, Radiator, **30, 39**
Seal, Shaft, **31**
Seal, Valve Stem, **12**
Seat, Valve, **14**
Set, Piston Ring, **9**
Shaft, Idle Gear, **10**
Shaft, Lever, **13**
Shaft, Rocker Arm, **12**
Shield, Breather, **11**

Shim, Injector Pump, **23**
Sleeve, Governor, **25**
Slinger, Oil, **9**
Spacer, Fan, **29**
Spacer, Generator Fan, **43**
Spring, **14**
Spring, Generator Brush, **43**
Spring, Governor, **13**
Spring, Return Starter, **16**
Spring, Rocker Arm, **12**
Spring, Starter, **16**
Spring, Tensioner, **34**
Spring, Valve, **12**
Starter, **15**
Stator, Generator, **43**
Stopper, Camshaft, **10**
Stopper, Fuel Camshaft, **25**
Strap, Electrical, **38**
Switch, Housing Rocker, **41**
Switch, Rocker (Remote Panel), **49**
Switch, Rocker (Remote Switch / Hourmeter Panel),
48
Switch, Rocker (Remote Switch Panel), **47**
Switch, Starter Magnetic, **16**
System, Air Intake, **28**
System, Cooling, **30**
System, Fuel, **26**
System, Ground, **38**
System, Mounting, **39**
System, Pulley , **34**

Tank, Recovery, **30**
Tappet, **10**
Thermostat, **32**
Thermostat Assy, **32**
Transformer, Current, **28**
Tube, Breather, **11**
Tube, Oil Fill, **19**

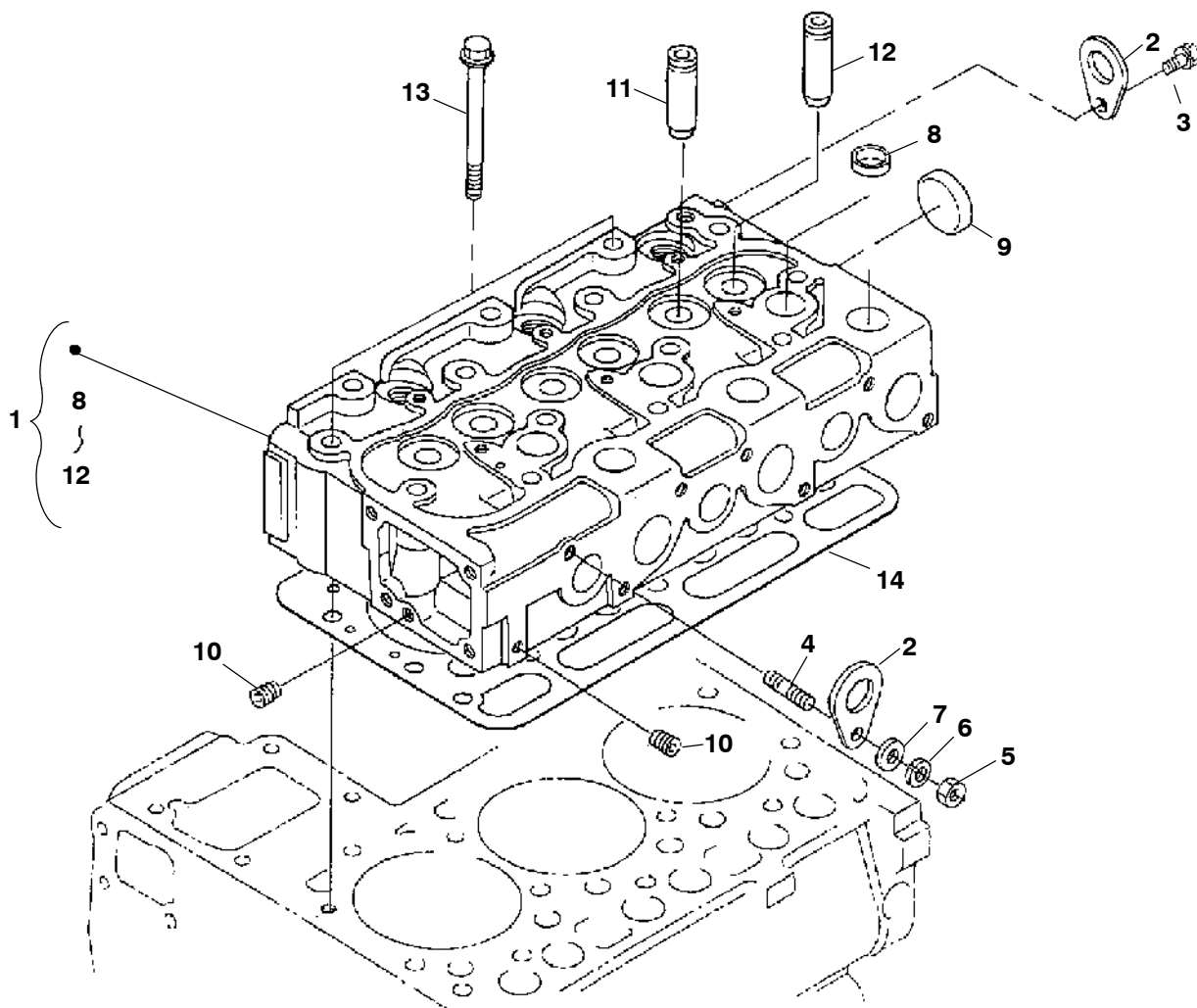
Valve, Exhaust, **12**
Valve, Inlet, **12**
Vane, Air, **39**

Cylinder Block



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	100-3909	1	Engine, Replacement	10	185-5842	2	Pin, Straight
1	110-3951	1	Comp. Crankcase	11	185-2350	3	Pin, Straight
2	185-6039	1	Plug	12	185-5843	2	Pin, Straight
3	185-5837	2	Plug	13	185-5844	1	Pin, Straight
4	185-2233	5	Plug	14	185-2094	1	Pin, Pipe
5	185-2234	2	Plug	15	517-0373	1	Plug
6	185-6121	3	Plug, Expansion	16	185-2338	1	Gasket
7	185-6040	1	Plug, Expansion	17	184-0023	1	Plug
8	185-5840	5	Cap, Sealing	18	509-0417	1	Gasket
9	185-5841	2	Cap, Sealing	19	517-0372	1	Cap, Sealing

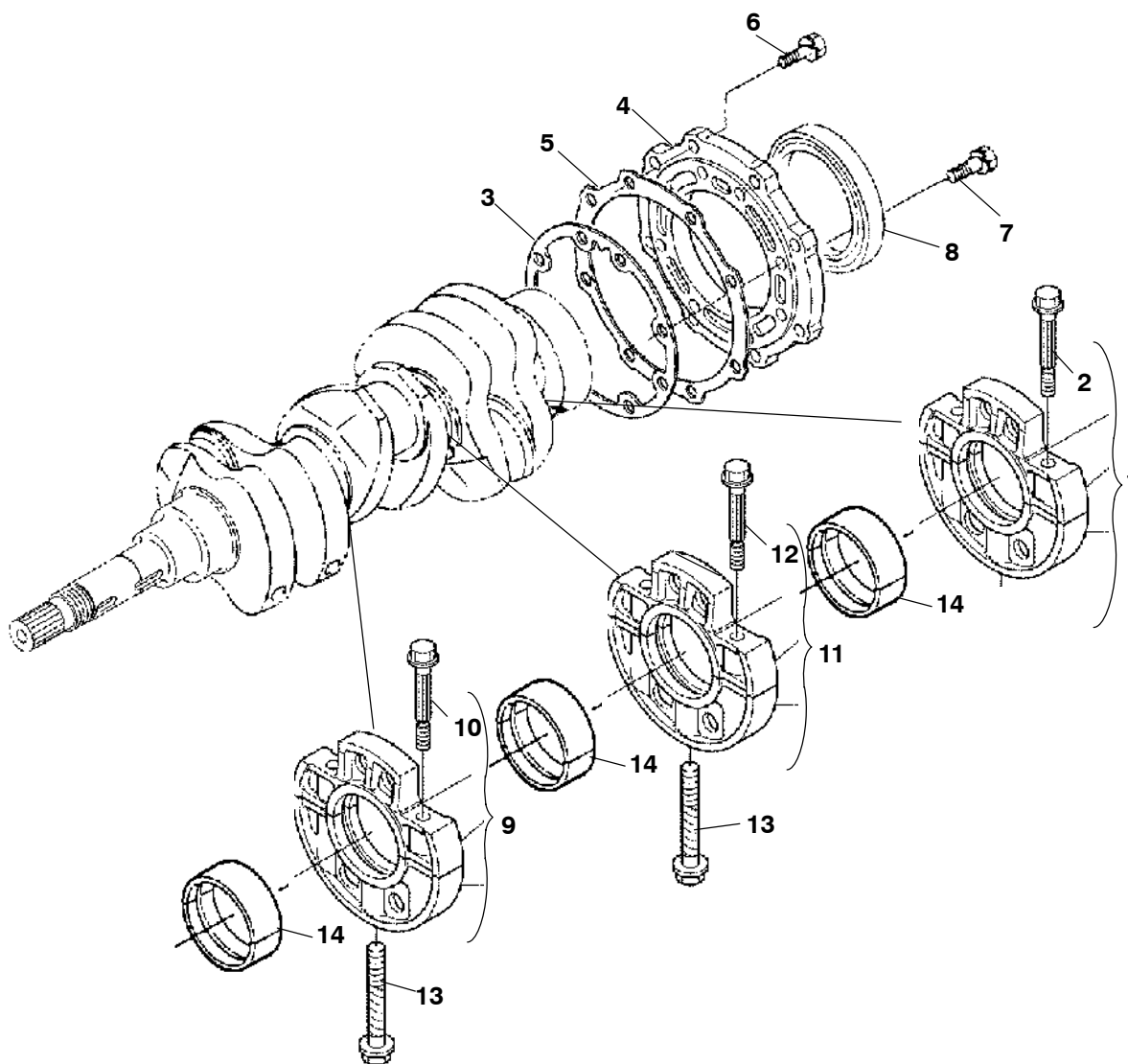
Cylinder Head



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	110-3954	1	Assy Head, Cylinder (Includes Parts Marked *)	9	185-2412	1	*Cap, Sealing
2	185-2414	2	Hook, Engine	10	185-2188	2	*Plug
3	185-6762	1	Bolt	11	185-5862	3	*Guide, Inlet Valve
4	185-6048	1	Stud	12	185-5863	3	*Guide, Exhaust Valve
5	185-7116	1	Nut	13	185-5865	14	Bolt, Cylinder Head
6	185-6957	1	Washer, Spring	14	110-3952	1	Gasket, Cylinder Head
7	185-3065	1	Washer, Plain				
8	185-5861	9	*Cap, Sealing				

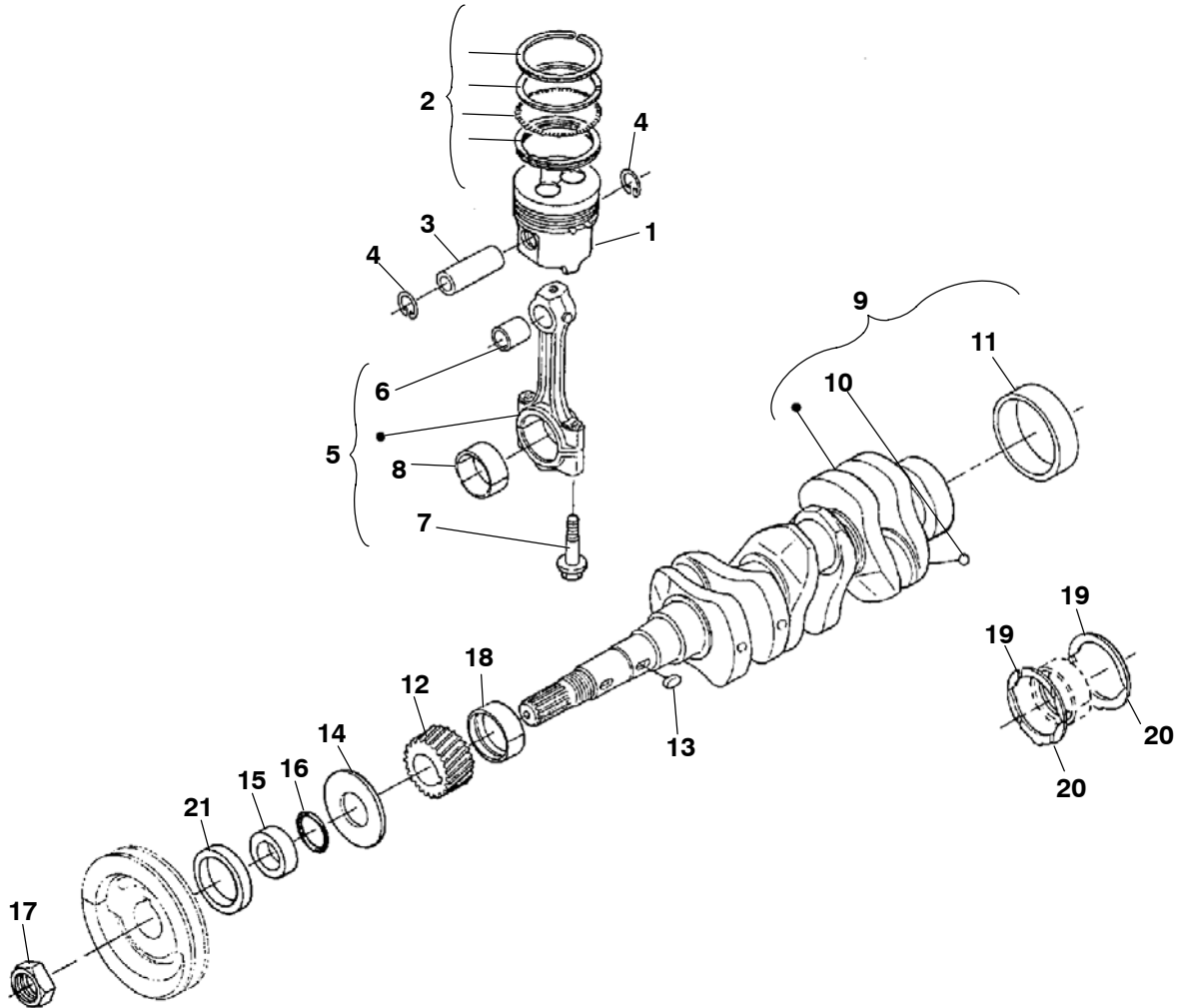
* - Parts Included in Cylinder Head Assy.

Main Bearing Case



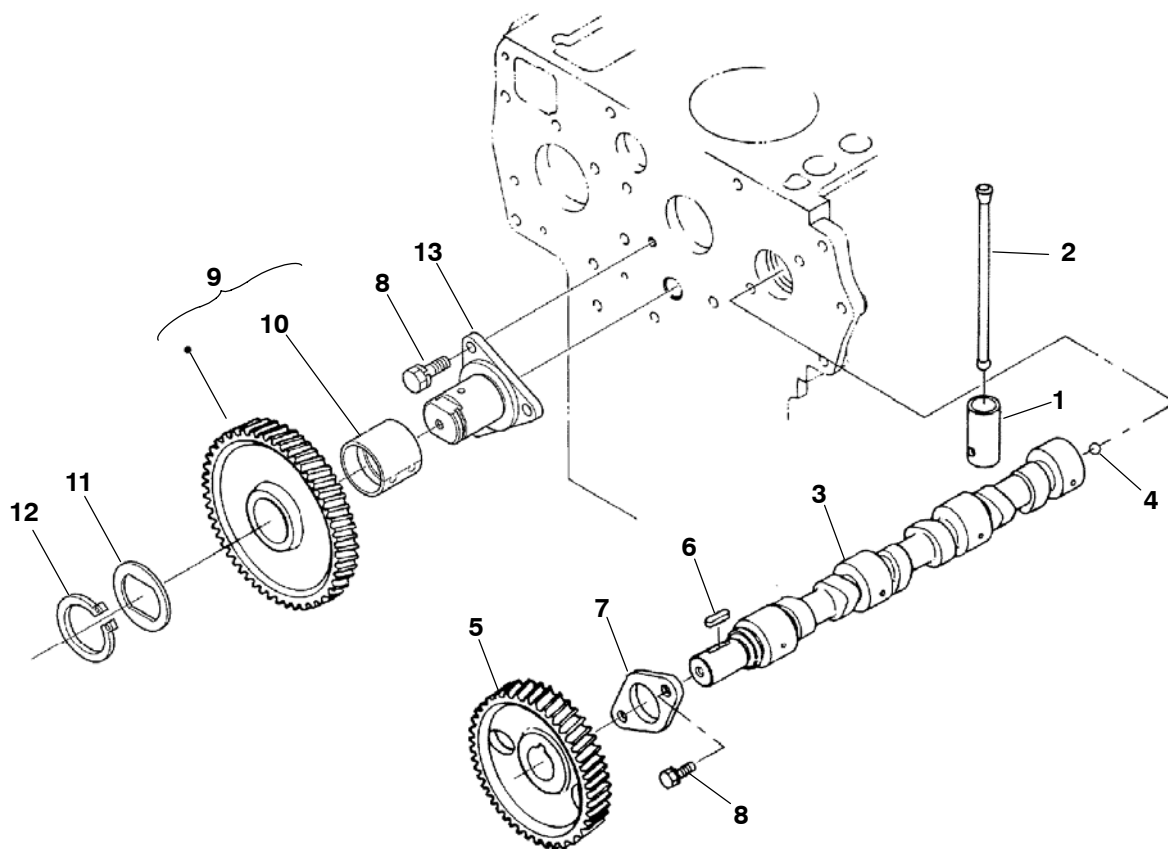
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-2029	1	Assy, Bearing Case Wheel	10	800-6329	2	Bolt, Bearing Case
2	800-6329	2	Bolt, Bearing Case	11	104-2032	1	Assy Bearing, Main Case
3	101-0834	1	Gasket, Bearing Case	12	800-6329	2	Bolt, Bearing Case
4	101-0836	1	Cover, Bearing Case	13	185-5899	2	Bolt, Bearing Case
5	101-0835	1	Gasket, Case Cover	14			Metal, Crankshaft
6	185-2403	8	Bolt		104-2035	3	Standard
7	185-2404	8	Bolt		104-2039	3	0.20 Oversized
8	509-0416	1	Seal, Oil		104-2040	3	0.40 Oversized
9	104-2031	1	Assy Bearing, Main Case				

Crankshaft



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Piston	13	515-0320	1	Key, Feather
	112-0298	3	Standard	14	185-5927	1	Slinger, Oil
	112-0299	3	0.25 Oversize)	15	185-5928	1	Collar, Camshaft
2			Ring Set, Piston	16	185-5929	1	O'Ring
	541-1168	3	Standard	17	185-5930	1	Crankshaft, Nut
	541-1169	3	0.25 Oversized	18			Metal, Crankshaft
3	185-5915	3	Pin, Piston		104-2033	1	Standard
4	518-0732	6	Circular, Clip, Internal		104-2037	1	0.20 Oversized
5	185-5917	3	Assy, Connector Rod		104-2038	1	0.40 Oversized
6	185-5918	3	Bush, Piston Pin	19			Metal, Side
7	185-6771	6	Bolt, Connector Rod		104-2034	2	Standard
8			Crankpin, Metal		104-2041	2	0.20 Oversized
	185-6076	3	Standard		104-2042	2	0.40 Oversized
	185-5921	3	0.20 Oversized	20			Metal, Side
	185-5922	3	0.40 Oversized		104-2036	2	Standard
9	104-2030	1	Comp, Crankshaft		104-2043	2	0.20 Oversized
10	185-5924	3	Ball		104-2044	2	0.40 Oversized
11	185-5925	1	Bush, Crankshaft	21	185-5931	1	Seal, Oil
12	507-0006	1	Gear, Crankshaft				

Camshaft/Idle Gear

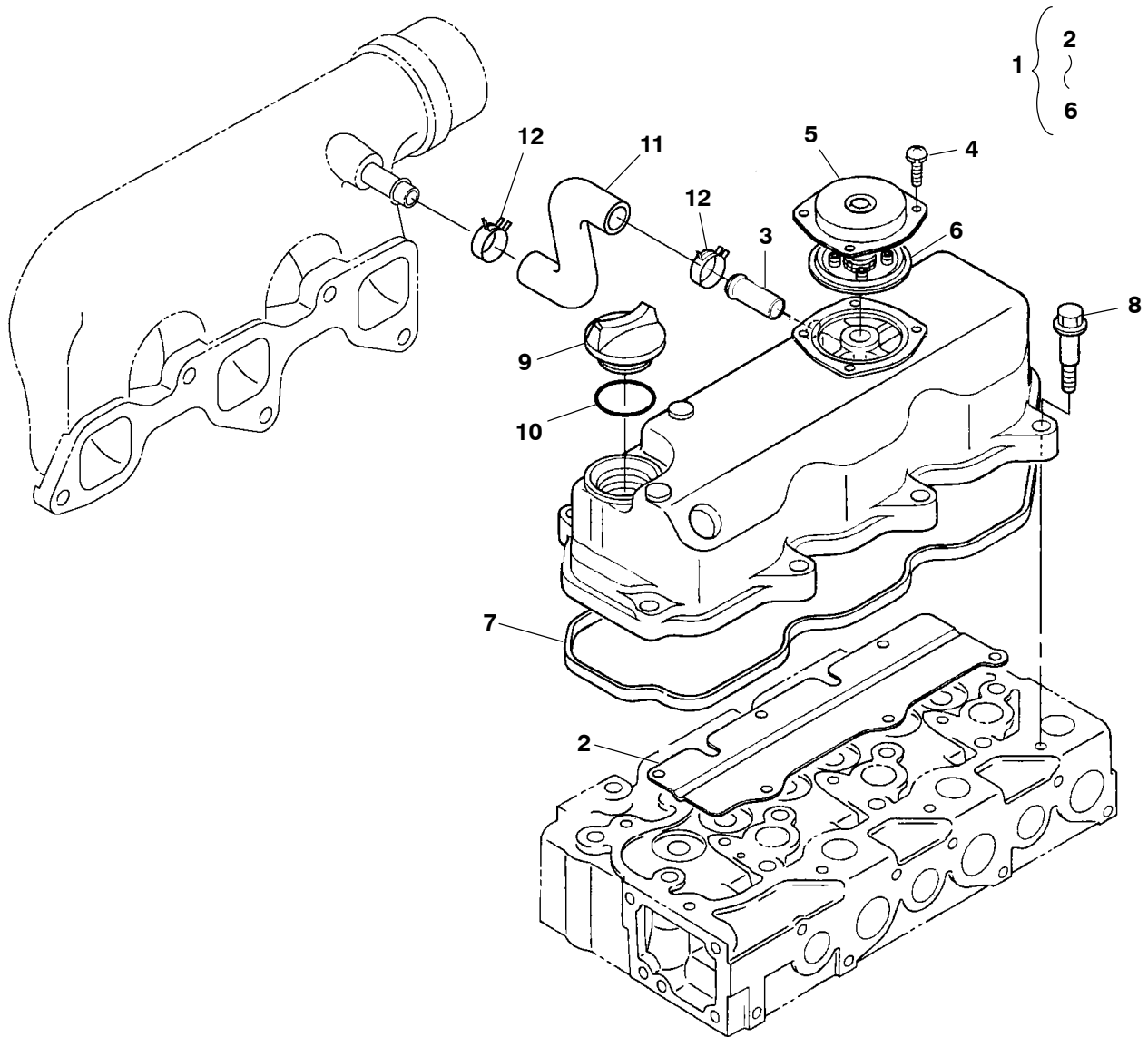


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5900	6	Tappet
2	185-5901	6	Rod, Push
3	105-0742	1	Camshaft
4	185-5924	1	Bearing, Ball
5	507-0007	1	Gear, Cam
6	185-5905	1	Key, Feather
7	185-5906	1	Stopper, Camshaft
8	185-2400	5	Bolt

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	507-0008	1	Comp, Gear Idle
10	508-1216	1	*Bush, idle Gear
11	406-1071	1	Collar
12	185-6072	1	Circle, Clip
13	120-1354	1	Shaft, Idle Gear

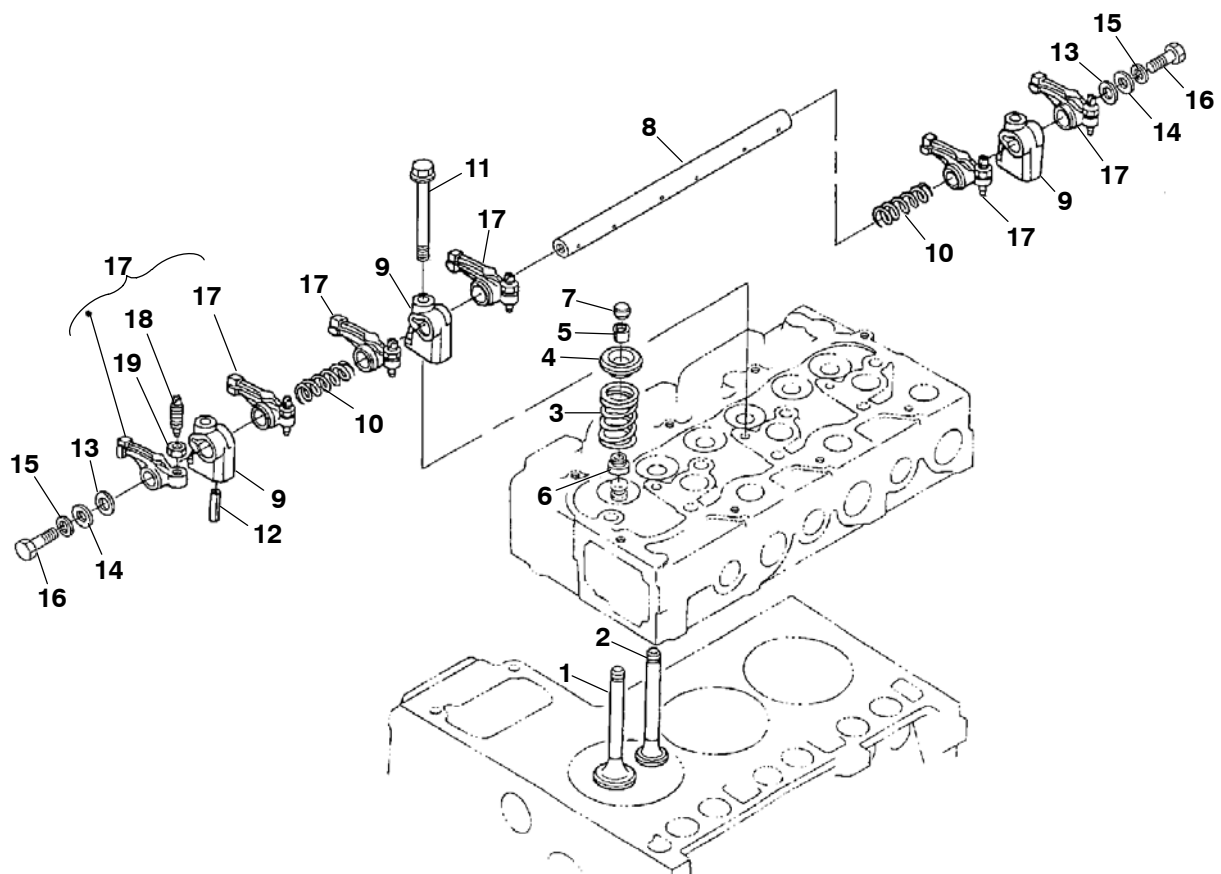
* - Parts Included in Camshaft Assy.

Cylinder Head Cover



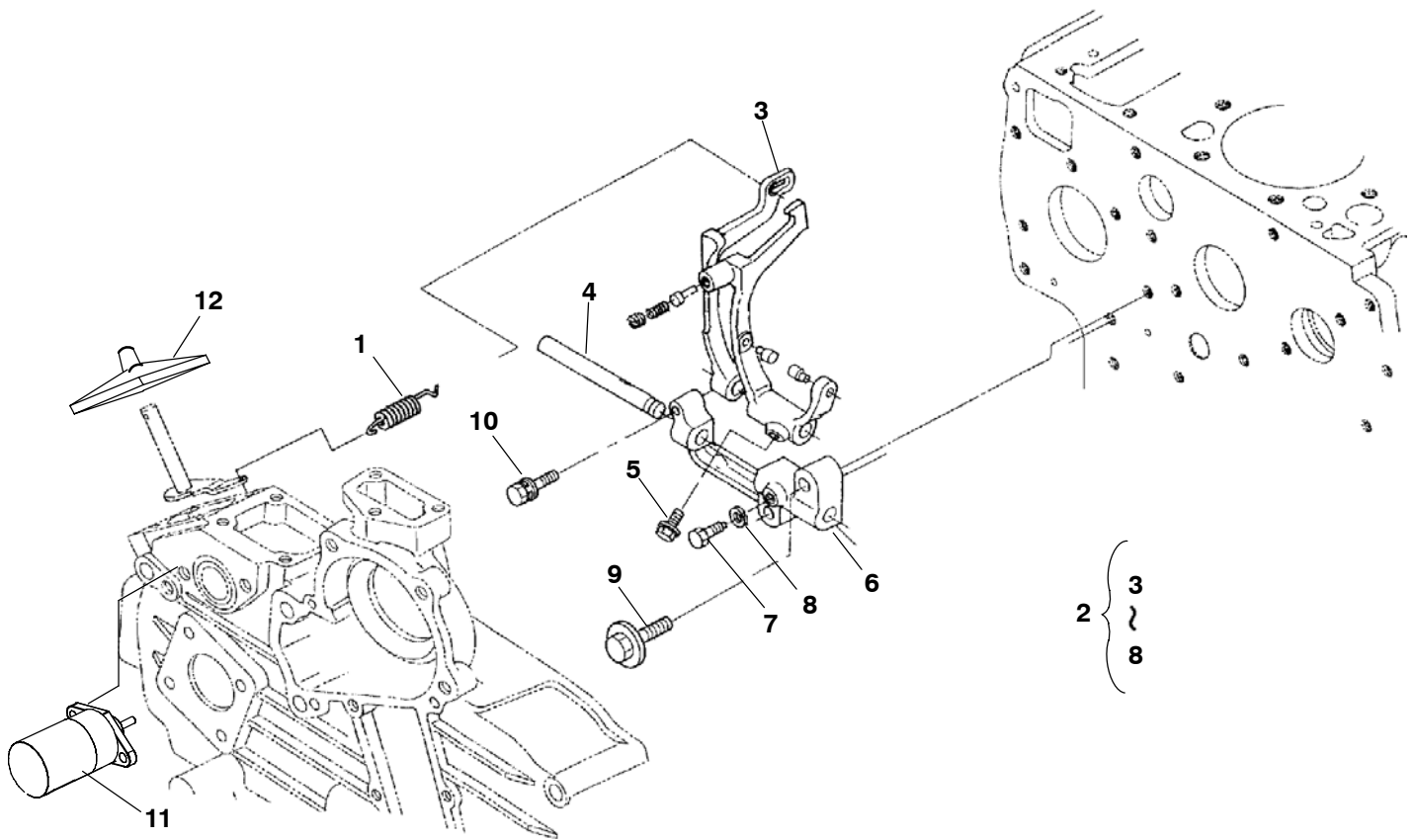
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	110-3953	1	Cover, Cylinder Head (Includes Ventilator Valve and Screws)	6	123-2264	1	Comp, Valve Breather
2	123-2261	1	Shield, Breather	7	110-3949	1	Gasket, Cylinder Head Cover
3	185-5998	1	Pipe, Water Return	8	800-6330	8	Bolt
4	185-2384	4	Screw	9	185-2093	1	Plug, Oil Filler
5	123-2263	1	Cover, Breather	10	509-0414	1	O'Ring
				11	123-2266	1	Tube, Breather
				12	503-2551	1	Clamp, Hose

Rocker Arm



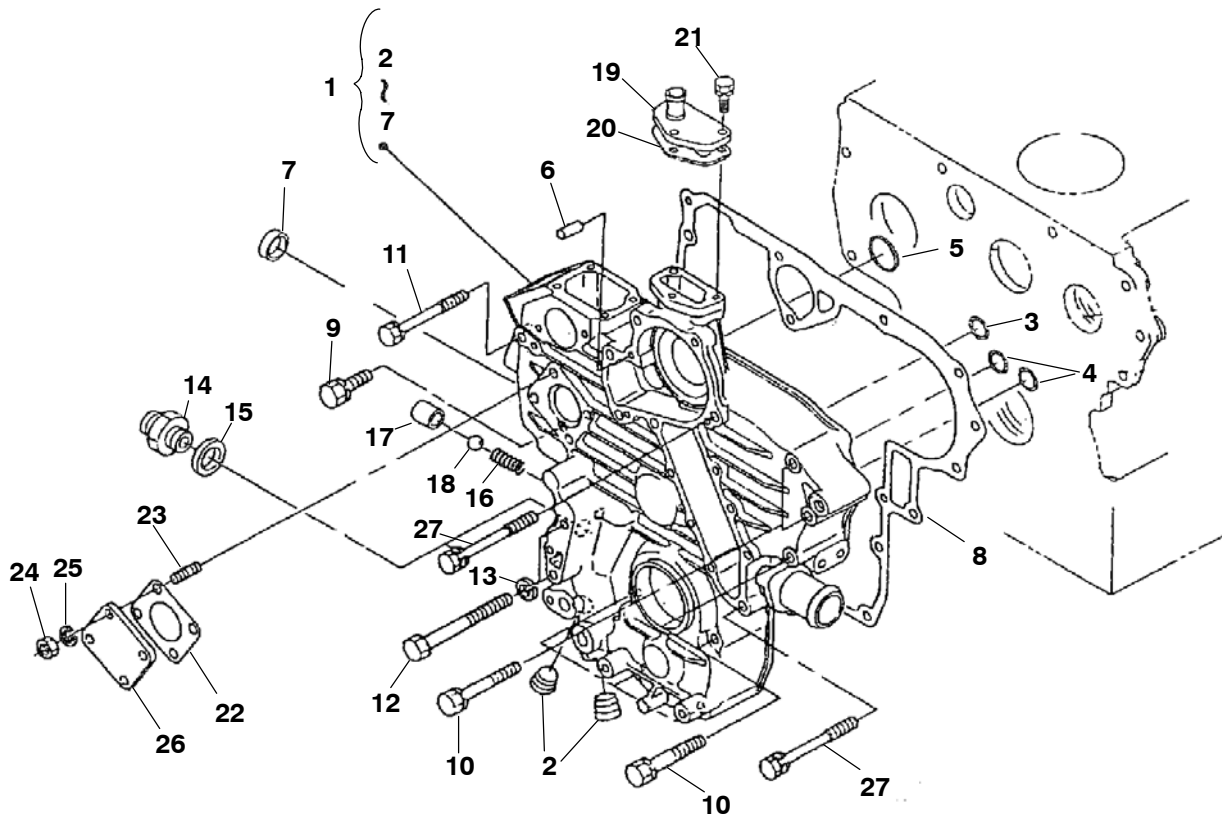
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6107	3	Valve, Inlet	11	800-6335	3	Bolt, Flange
2	185-6108	3	Valve, Exhaust	12	185-6749	1	Pin, Spring
3	185-6016	6	Spring, Valve	13	185-6025	5	Washer, Rocker Arm Shaft
4	185-6017	6	Retainer, Valve Spacer	14	185-7221	2	Washer, Plain
5	110-3948	6	Collet, Valve Spring	15	185-6957	2	Washer, Spring
6	185-6018	6	Seal, Valve Stem	16	800-6327	2	Bolt
7	185-6019	6	Cap, Valve	17	185-6028	6	Arm, Rocker
8	115-0509	1	Shaft, Rocker Arm	18	185-6029	6	Screw, Adjusting
9	185-6022	3	Bracket, Rocker Arm	19	185-6030	6	Nut
10	185-6026	2	Spring, Rocker Arm				

Governor



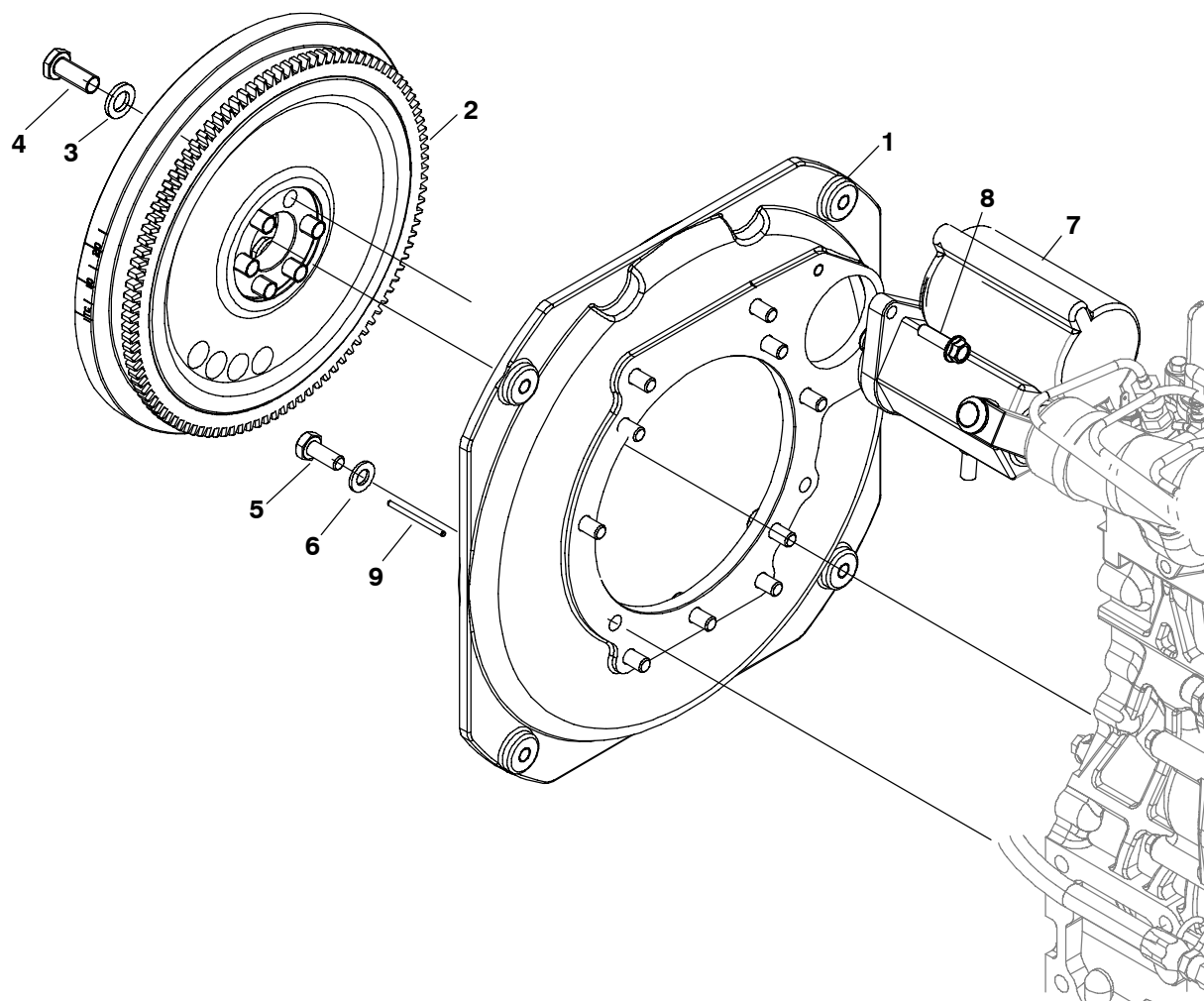
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	506-0028	1	Spring, Governor	7	800-6306	1	Bolt
2	150-2847	1	Assy lever, Fork	8	185-6759	1	Washer, Spring
3	150-2842	1	Lever, Fork	9	800-6334	2	Bolt, Flange
4	150-2805	1	Shaft, Lever	10	185-2561	1	Bolt
5	800-6305	1	Bolt, Flange	11	333-0707	1	Governor, Actuator
6	150-2836	1	Holder, Fork Lever	12	185-2851	1	Cover, Plate Governor

Gearcase



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	103-0833	1	Gearcase	15	509-0415	1	Collar, Valve Seat
2	185-6481	2	Plug	16	185-5877	1	Spring
3	509-0410	1	O'Ring	17	185-5878	1	Seat, Valve
4	509-0412	2	O'Ring	18	185-6711	1	Ball
5	509-0413	1	O'Ring	19	185-5879	1	Flange, Water Return
6	185-5843	2	Pin, Straight	20	132-0449	1	Gasket, Return Flange
7	517-0370	1	Cap, Seal	21	185-2390	3	Bolt
8	103-0832	1	Gasket, Gear Case	22	302-2084	1	Gasket, Hourmeter Unit
9	185-2565	1	Bolt	23	185-2105	4	Stud
10	185-6713	1	Bolt	24	130-2920	4	Nut
11	185-6961	1	Bolt	25	185-6759	4	Washer, Spring
12	185-7120	2	Bolt	26	185-2153	1	Cover
13	185-6957	2	Washer, Spring	27	185-5874	4	Bolt
14	505-2256	1	Joint, Pipe				

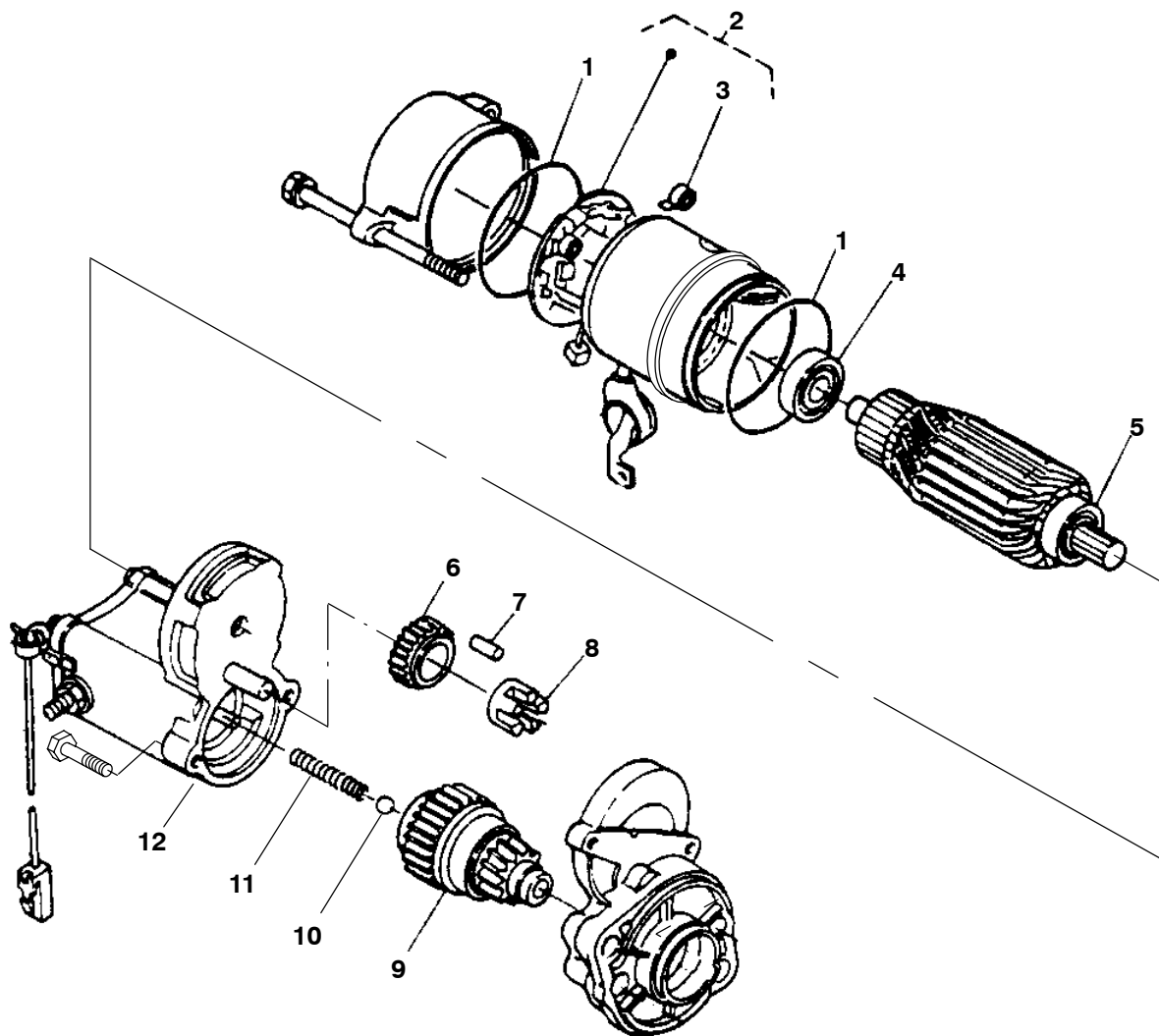
Flywheel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-2022	1	Housing, Flywheel
2	104-2020	1	Flywheel
3	526-0399-64	6	Washer (M12)
4	800-3032	6	Screw, Hex Head (12 x 1.25 x 30mm)
5	815-0600	11	Screw, Lock Head Flange (M10 x 1.5 x 25mm)

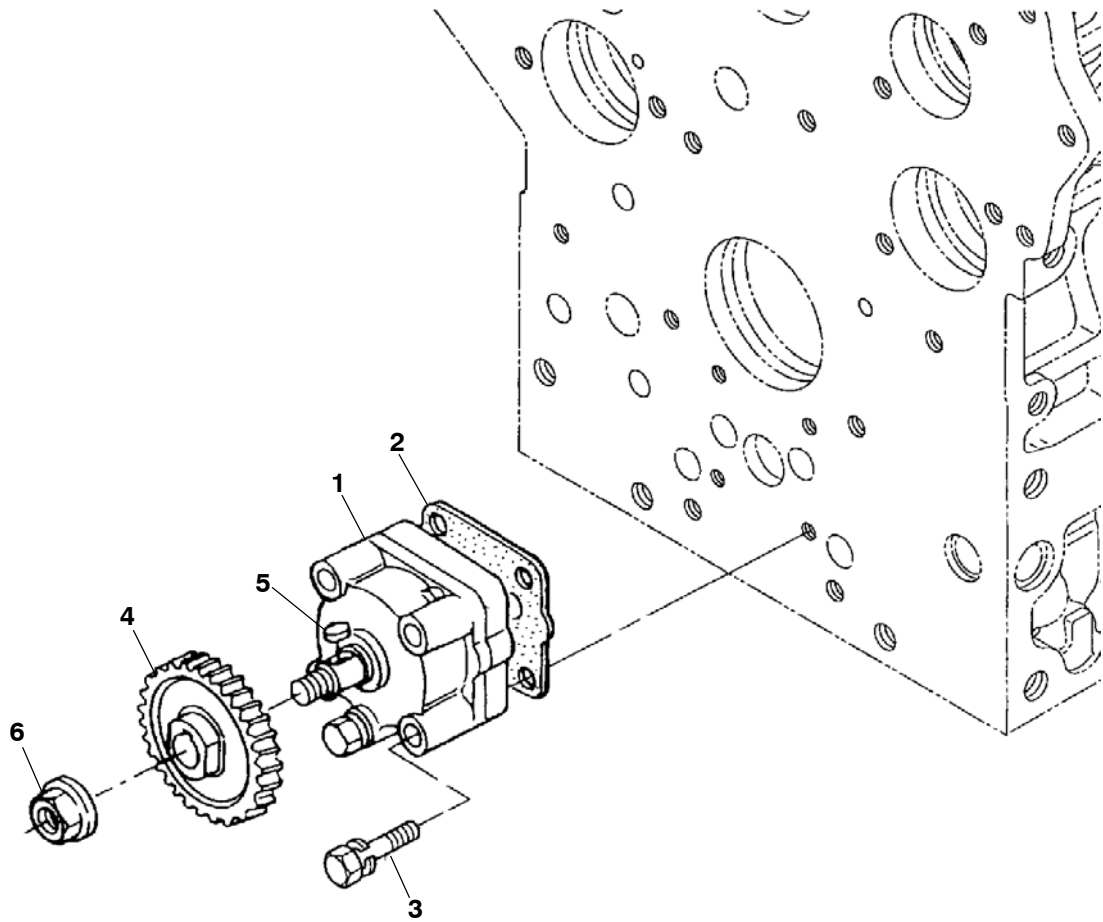
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	740-1008	11	Washer, Flat (M10)
7	191-2229	1	Starter (See Separate Page for Components)
8	815-0954-03	2	Screw, Flange Head Mach (M8 x 30mm)
9	516-0247	1	Pin, Dowel

Starter Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-2229	1	Starter	6	191-2250	1	Pinion, Starter
1	191-2239	1	O'Ring	7	191-2252	1	Roller, Clutch
2	191-2247	1	Assy Holder, Starter (Includes Spring)	8	191-2251	1	Retainer
3	191-2246	1	Spring, Starter	9	191-2253	1	Clutch, Starter
4	191-2255	1	Bearing, Ball	10	191-2241	1	Ball, Steel
5	191-2254	1	Bearing, Ball	11	191-2240	1	Spring, Return
				12	191-2245	1	Switch, Magnetic

Oil Pump

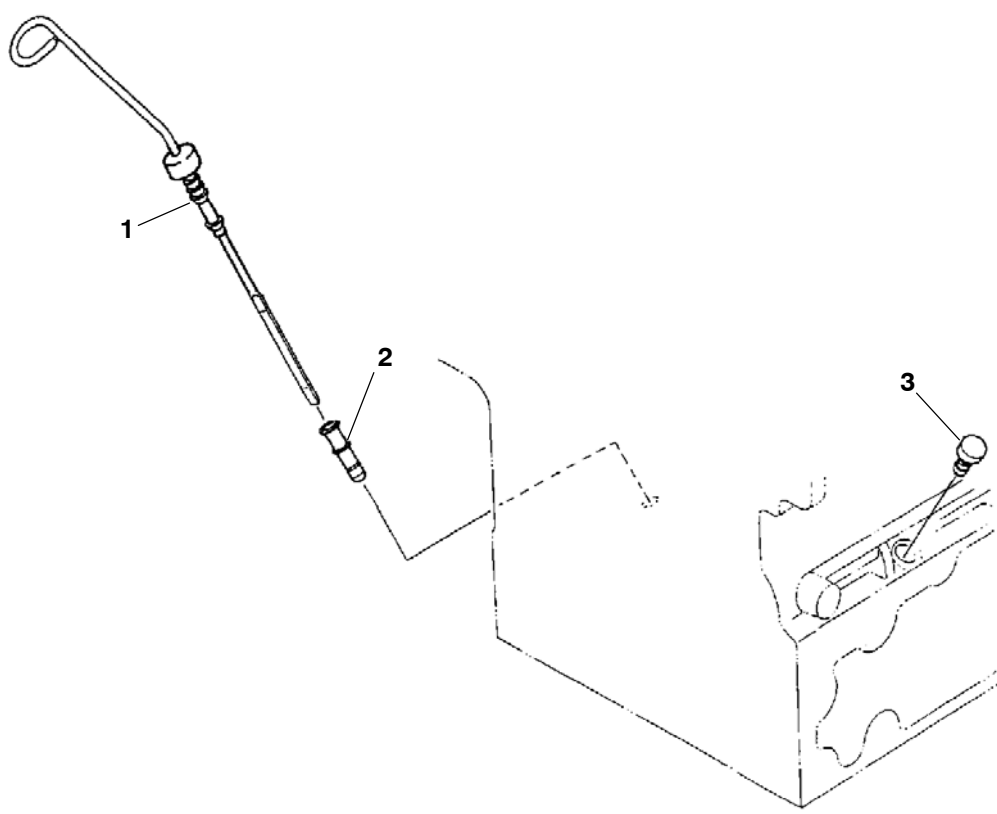


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5848	1	Assy Pump, Oil (Includes Parts Marked *)
2	120-1355	1	*Gasket, Oil Pump
3	185-7069	4	*Bolt
4	185-5851	1	*Gear, Oil Pump Drive

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	185-2352	1	*Key, Feather
6	185-7031	1	*Nut, Flange

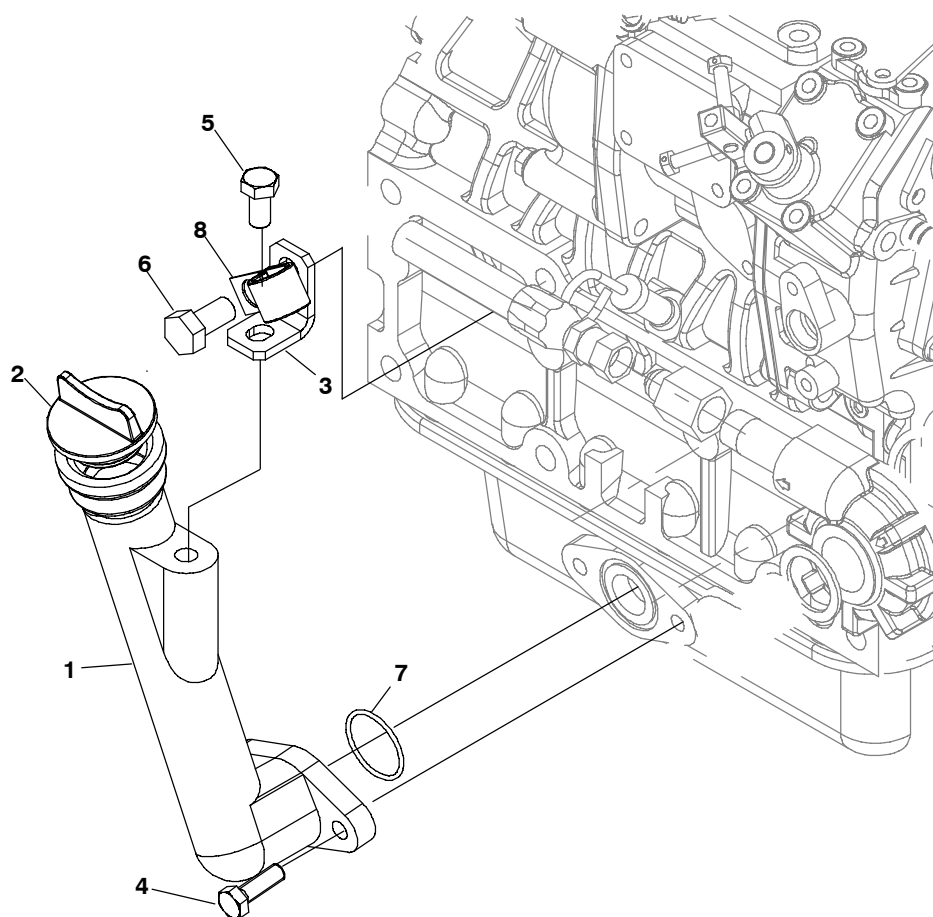
* - Parts Included in Oil Pump Assy.

Oil Dipstick



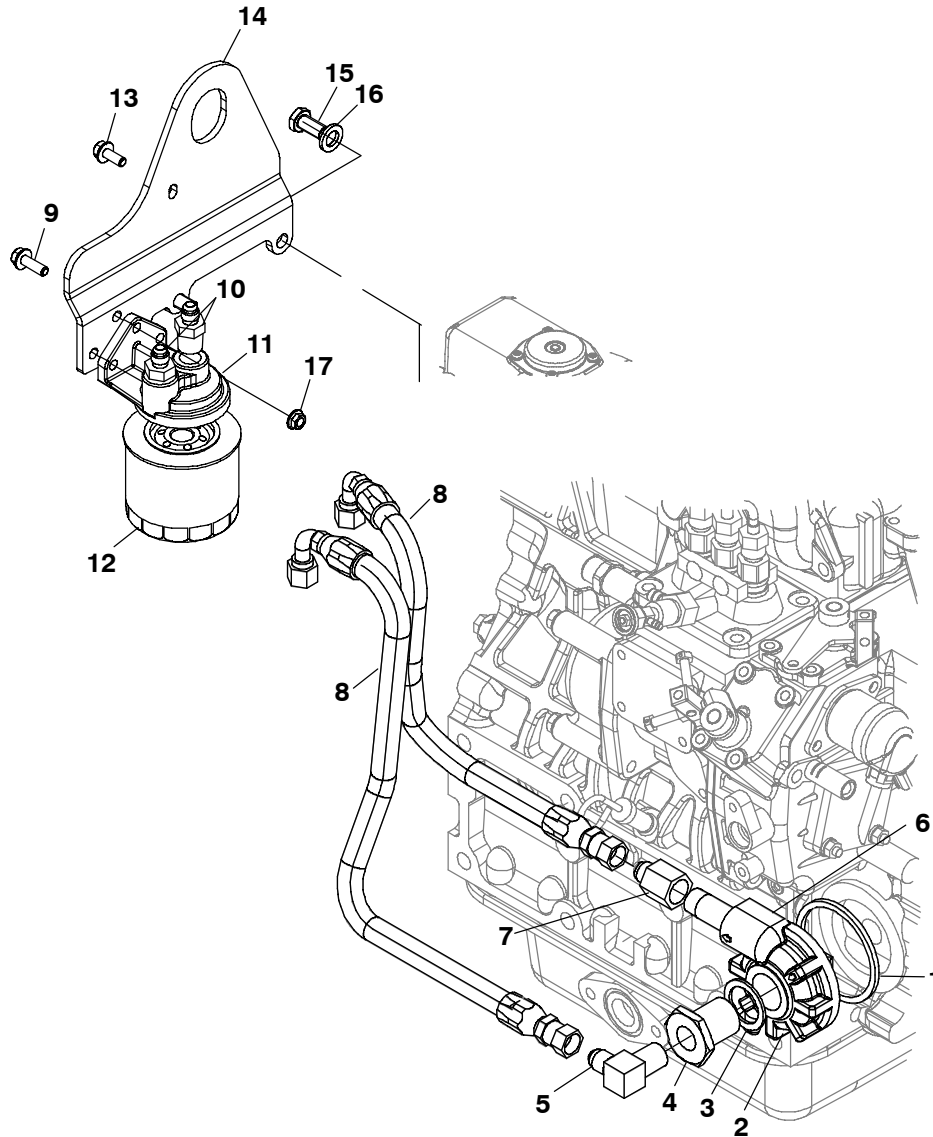
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	123-2265	1	Gauge, Oil
2	123-2262	1	Guide, Oil Gauge
3	517-0371	1	Plug, Oil Gauge

Oil Fill



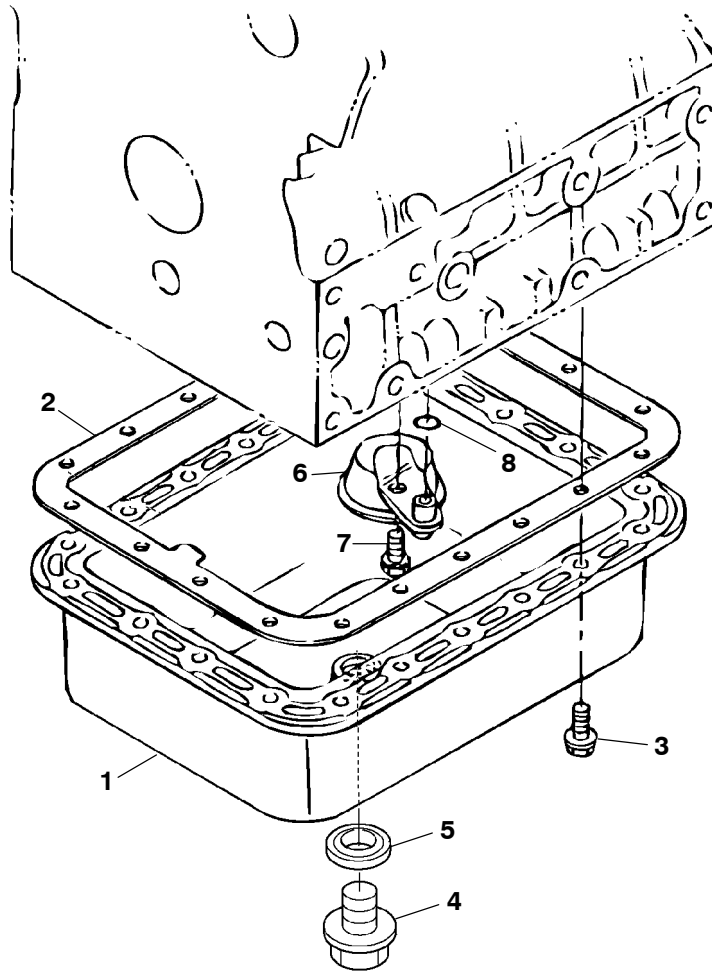
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	123-2253	1	Tube, Oil Fill	6	800-3031	1	Screw, Hex Head
2	185-2093	1	Cap, Oil Fill	7	123-2254	1	Gasket, Oil Fill
3	405-5508	1	Bracket, Engine	8	332-2921	1	Clamp
4	800-2058	2	Screw, Hex Head				
5	800-3030	1	Screw, Hex Head				

Remote Oil Fill



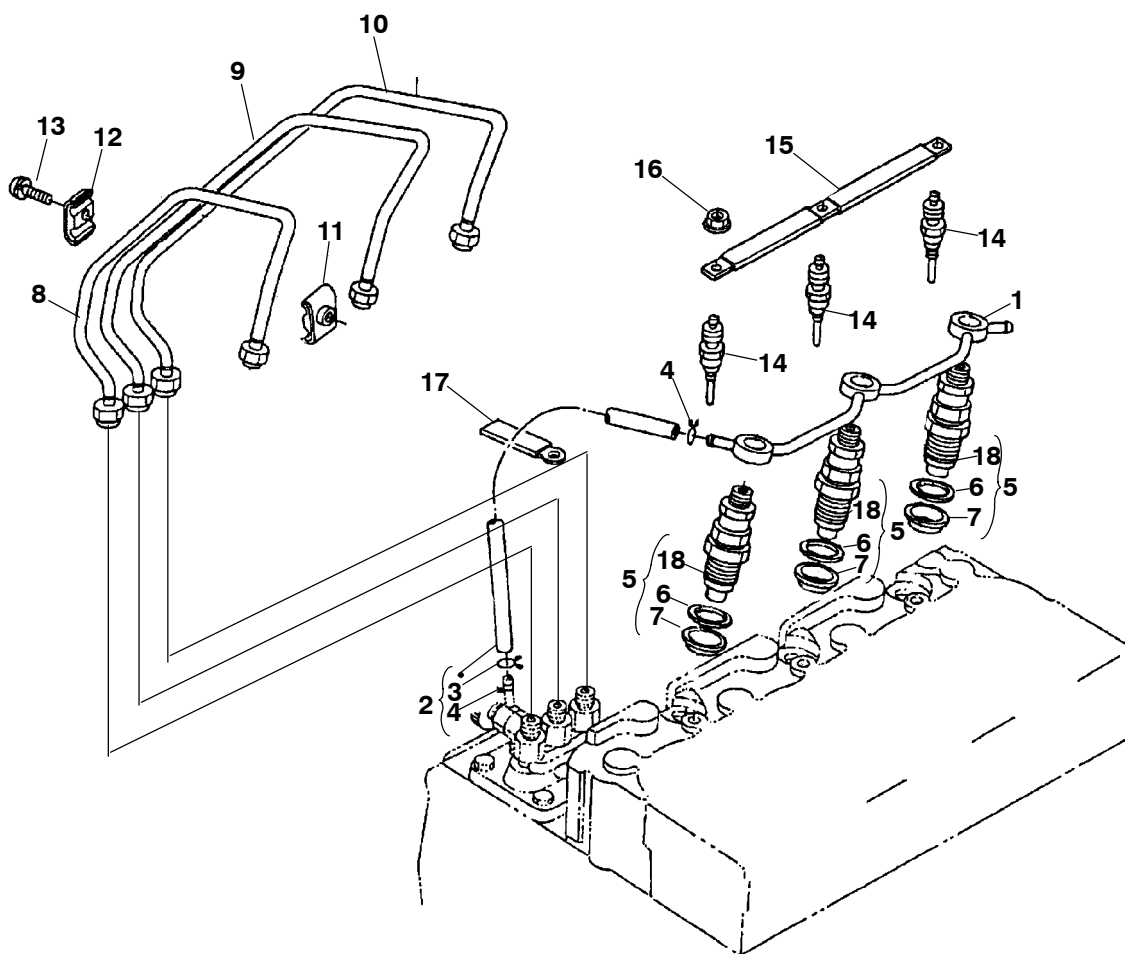
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122-0886	1	Gasket, Oil Filter	11	122-0476	1	Base, Remote Filter
2	122-0882	1	Adapter, Oil Filter	12	122-0897	1	Filter, Oil
3	122-0884	1	Gasket, Oil Filter	13	815-0954-02	1	Screw, Flanged Head (M8 x 20mm)
4	122-0883	1	Adapter, Oil Filter (Nut)	14	403-5451-02	1	Plate, Lifting
5	502-1505	1	Elbow, Tube	15	800-3033	1	Screw, Hex Head Cap (M12 x 1.25 x 25mm)
6	505-0139	1	Nipple, Pipe (3/8 NPT x 2")	16	526-0399-64	1	Washer, Flat (M12)
7	502-1506	1	Adapter, Tube	17	870-2055	3	Nut, Locking Flange (M8 x 1.25mm)
8	501-0848	2	Hose, Remote Oil Fill				
9	815-0954-02	3	Screw, Flange Head Mach (M8 x 25mm)				
10	502-0804	2	Connector, Male				

Oil Base



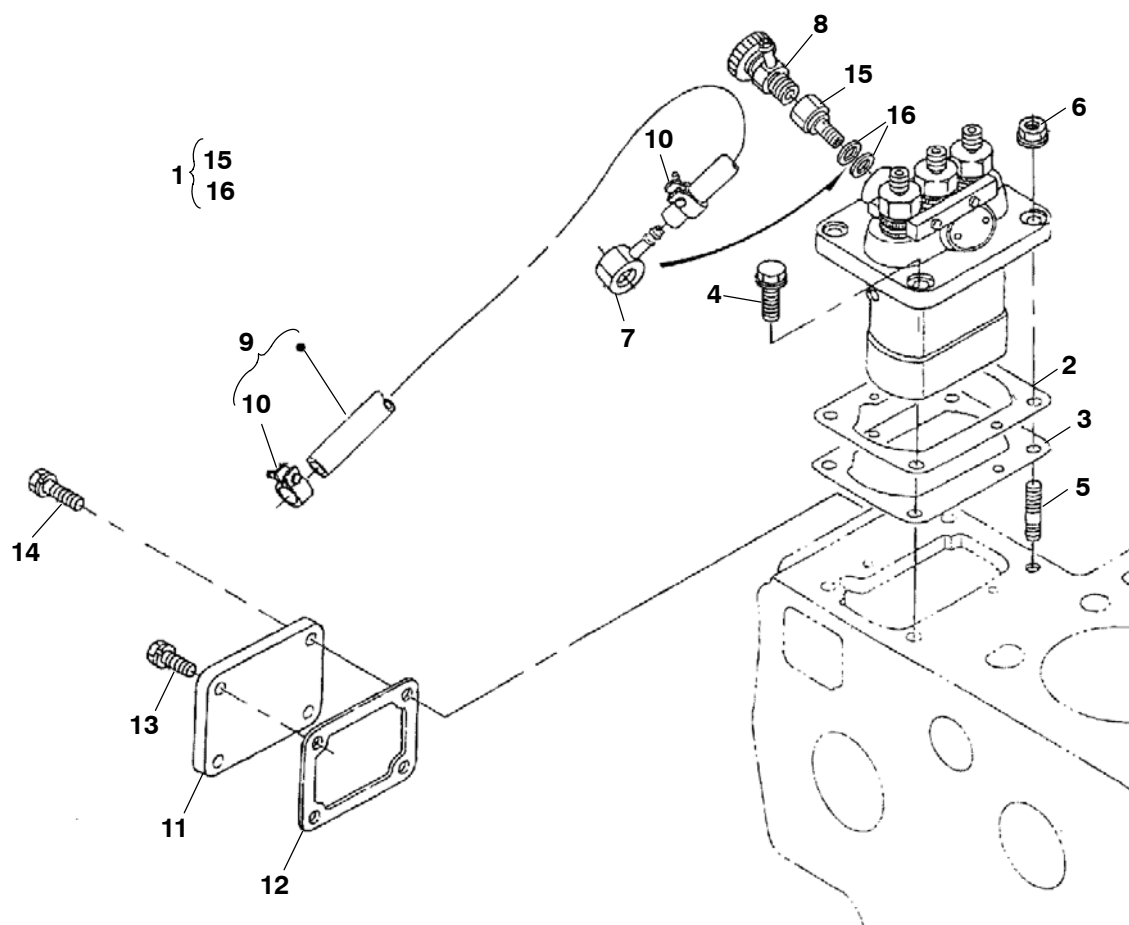
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-1516	1	Pan, Oil (Includes Plug and O'Ring)	5	185-5495	1	Gasket
2	102-1523	1	Gasket, Oil Pan	6	185-6728	1	Filter, Oil
3	800-6340	20	Bolt, Flange	7	185-6956	1	Bolt
4	185-6046	1	Plug	8	509-0411	1	O'Ring

Injection Pump



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0883	1	Assy, Overflow Pipe	10	501-0886	1	Pipe, Injection
2	185-5982	1	Assy, Overflow Pipe	11	185-5612	2	Clamp, Pipe
3	185-5608	1	Clip, Pipe	12	185-5613	2	Clamp, Pipe
4	185-6093	1	Clip, Pipe	13	185-2385	2	Screw, w/ Washer
5	185-7008	3	Holder, Nozzle	14	185-5990	3	Pug, Glow
6	185-5337	3	Gasket	15	337-3739	1	Cord, Glow Plug
7	185-5885	3	Seal, Heat	16	185-5615	3	Nut, Flange
8	501-0884	1	Pipe, Injection	17	185-5140	1	Clamp, Cord
9	501-0885	1	Pipe, Injection	18	185-7006	3	Piece, Nozzle

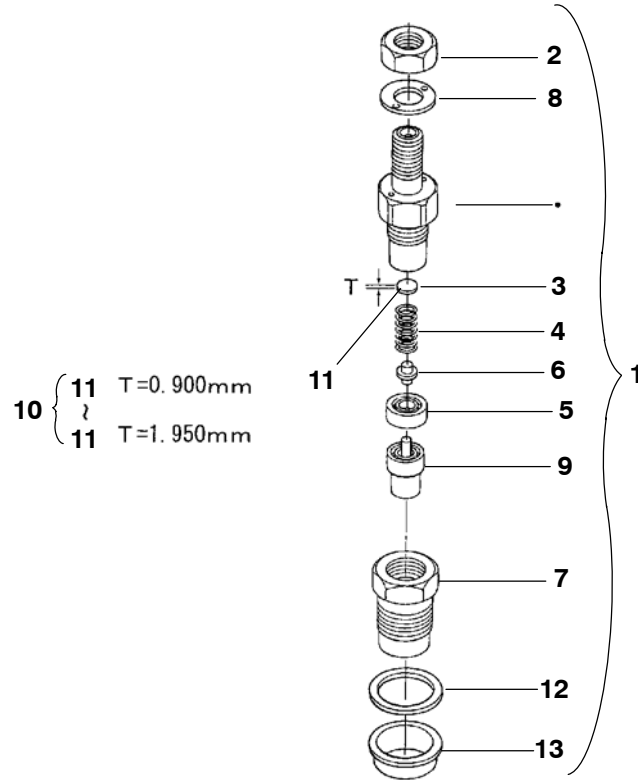
Injection Pump Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	147-0892	1	Pump, Injection
2	185-6987	1	Shim, Injector Pump
	185-6988	1	.20mm
		1	.25mm
3	185-6989	1	Shim, Injector Pump
4	800-6333	2	Bolt, Flange
5	185-2106	2	Stud
6	185-7134	2	Nut, Flange
7	185-6991	1	Joint, Eye

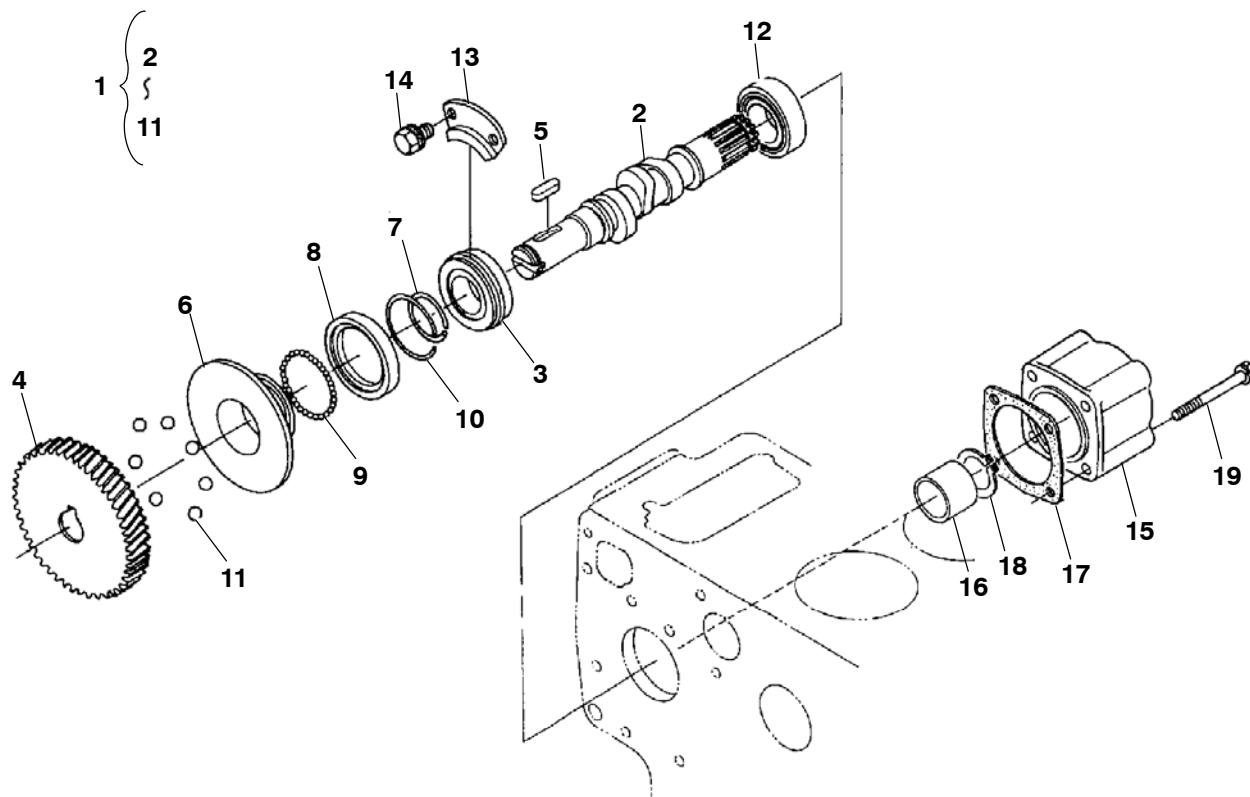
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	505-2258	1	Orifice
9	185-5979	1	Pipe, Fuel
10	185-2336	2	Clip, Pipe
11	152-0373	1	Cover, Injector Pump
12	101-0837	1	Gasket, Pump Cover
13	185-2388	2	Bolt
14	185-2389	2	Bolt
15	505-2251	1	Screw, Follow
16	185-6996	2	Gasket

Injection Nozzle Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7008	3	Holder, Nozzle		185-5381	3	1.325mm
2	185-5616	3	Nut		185-5382	3	1.350mm
3	185-5364	3	Washer, Adjusting		185-5383	3	1.375mm
4	185-5617	3	Spring, Nozzle		185-5384	3	1.400mm
5	185-5618	3	Piece, Distance		185-5385	3	1.425mm
6	185-5619	3	Push, Rod		185-5386	3	1.450mm
7	185-6825	3	Nut, Nozzle		185-5387	3	1.475mm
8	185-5621	3	Washer		185-5388	3	1.500mm
9	185-7006	3	Piece, Nozzle		185-5389	3	1.525mm
10	185-5363	3	Washer, Adjust		185-5390	3	1.550mm
11			Washer, Adjust		185-5391	3	1.575mm
	185-5364	3	0.900mm		185-5392	3	1.600mm
	185-5365	3	0.925mm		185-5393	3	1.625mm
	185-5366	3	0.950mm		185-5394	3	1.650mm
	185-5367	3	0.975mm		185-5395	3	1.675mm
	185-5368	3	1.000mm		185-5396	3	1.700mm
	185-5369	3	1.025mm		185-5397	3	1.725mm
	185-5370	3	1.050mm		185-5398	3	1.750mm
	185-5371	3	1.075mm		185-5399	3	1.775mm
	185-5372	3	1.100mm		185-5400	3	1.800mm
	185-5373	3	1.125mm		185-5401	3	1.825mm
	185-5374	3	1.150mm		185-5402	3	1.850mm
	185-5375	3	1.175mm		185-5403	3	1.875mm
	185-5376	3	1.200mm		185-5404	3	1.900mm
	185-5377	3	1.225mm		185-5405	3	1.925mm
	185-5378	3	1.250mm		185-5406	3	1.950mm
	185-5379	3	1.275mm	12	185-5337	3	Gasket
	185-5380	3	1.300mm	13	185-5985	3	Seal, Heat

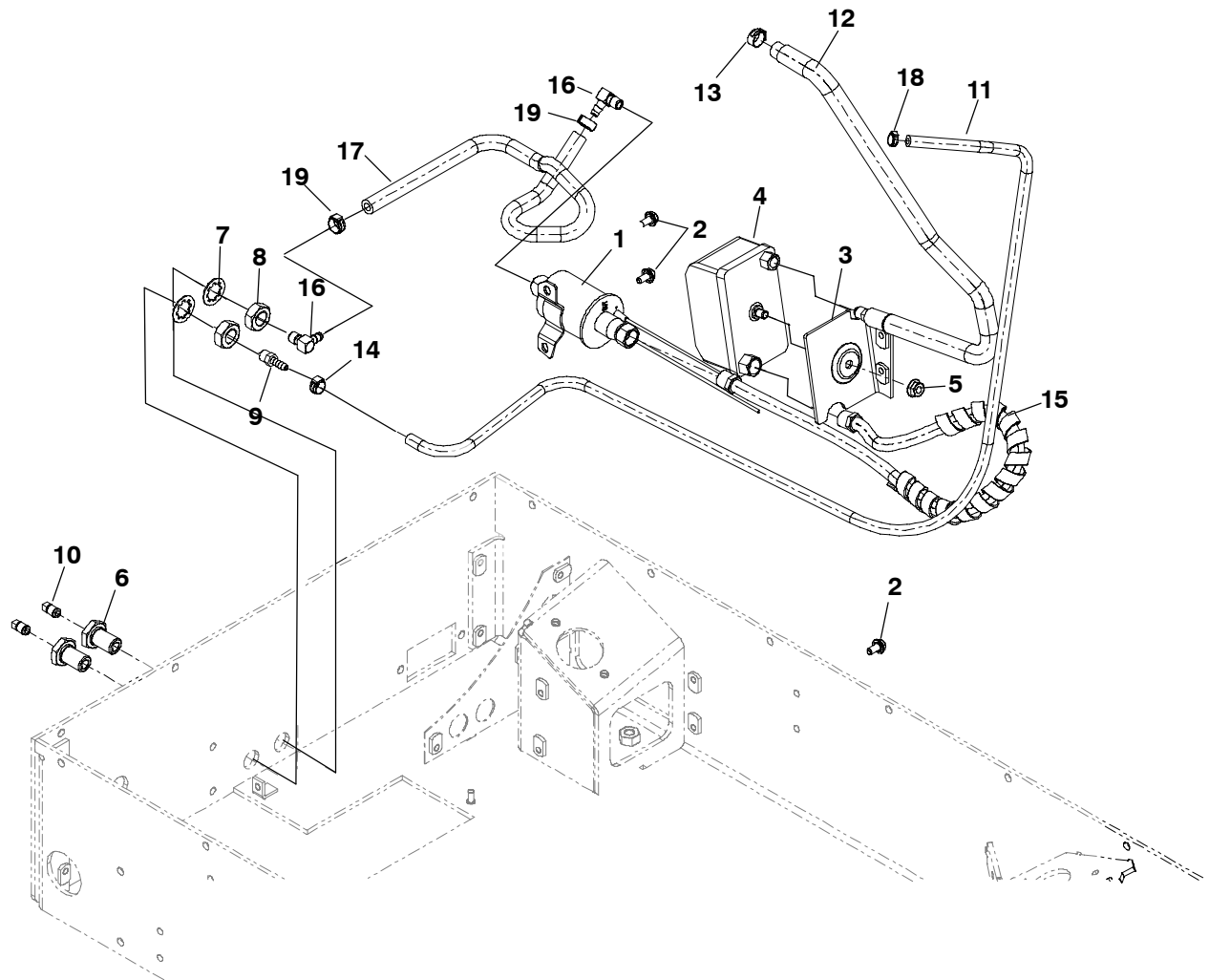
Fuel Camshaft



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2838	1	Assy, Camshaft, Fuel
2	150-2839	1	Camshaft, Fuel
3	185-5947	1	Bearing, Ball
4	147-0882	1	Gear, Injection Pump
5	185-5949	1	Key, Feather
6	150-2798	1	Sleeve, Governor
7	518-0712	1	Circle Clip, Governor Sleeve
8	150-2800	1	Case, Governor Ball
9	105-0740	39	Ball
10	518-0713	1	Circle Clip

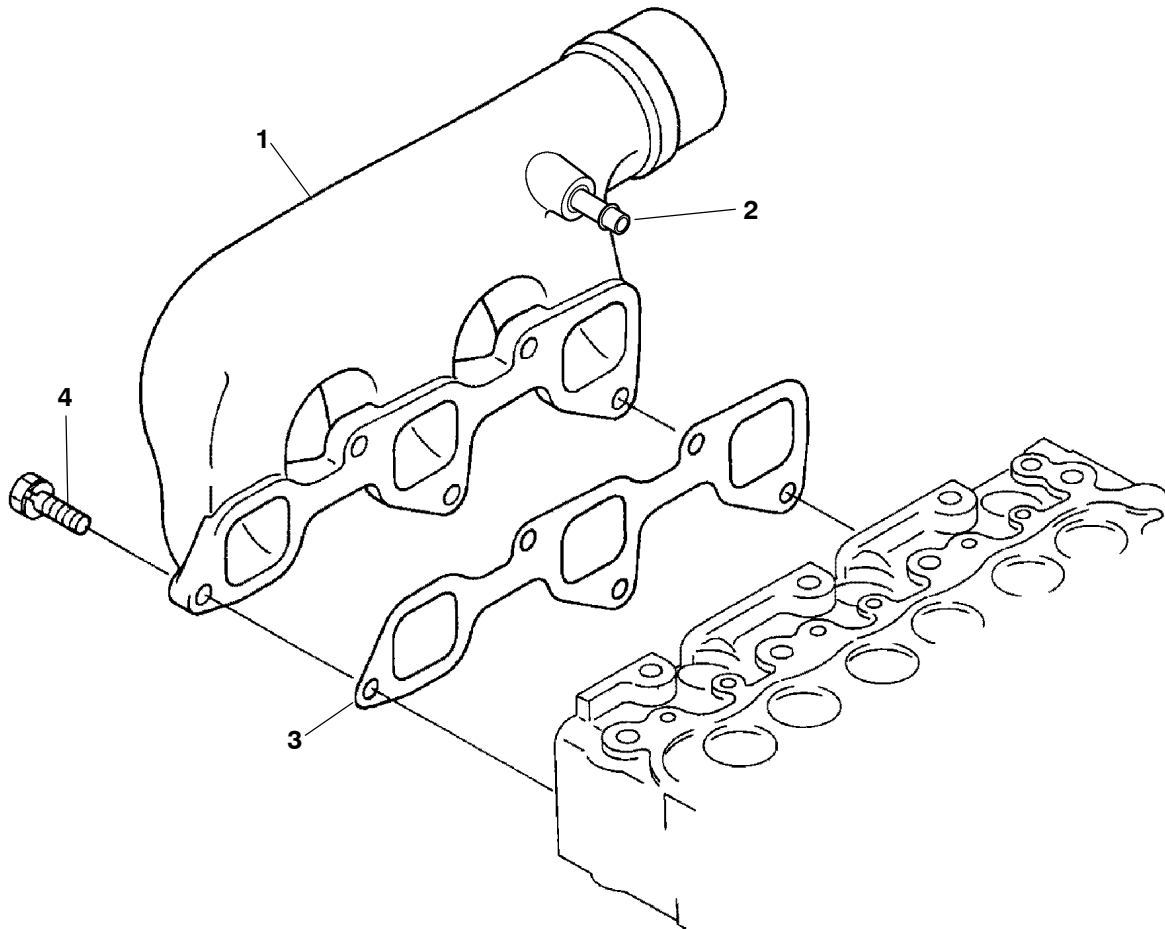
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	105-0741	7	Ball
12	510-0214	1	Bearing, Ball
13	185-5962	1	Stopper, Fuel Camshaft
14	185-6956	2	Bolt
15	185-6772	1	Cover, Fuel Camshaft
16	150-2837	1	Collar
17	150-2848	1	Gasket
18	185-5963	1	Circle Clip, External
19	185-6773	1	Bolt

Fuel System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-2790	1	Pump, Fuel	10	517-0273	2	Plug, Pipe
2	821-2096-02	4	Screw, Locking Flange Head (M6 x 1 x 12mm)	11	503-2078	1	Hose, Fuel
3	149-2726-02	1	Bracket, Fuel Filter	12	501-0933	1	Hose Assy.
4	149-2513	1	Filter, Fuel	13	503-1951-13	1	Clamp, Hose
5	870-0257	1	Nut, Self Locking Flange (5/16-18)	14	503-1951-09	2	Clamp, Hose
6	502-1296-02	2	Fitting, Bulkhead	15	501-0920	1	Line, Fuel
7	854-0028	2	Washer, IT Lock (5/8")	16	502-0313	2	Elbow, 90°
8	868-0007	2	Nut, Hex Jam (5/8-18)	17	503-2052	1	Hose, Fuel
9	502-1299	1	Connector, Hose	18	503-1952-06	1	Clamp, Hose
				19	503-1951-12	2	Clamp, Hose

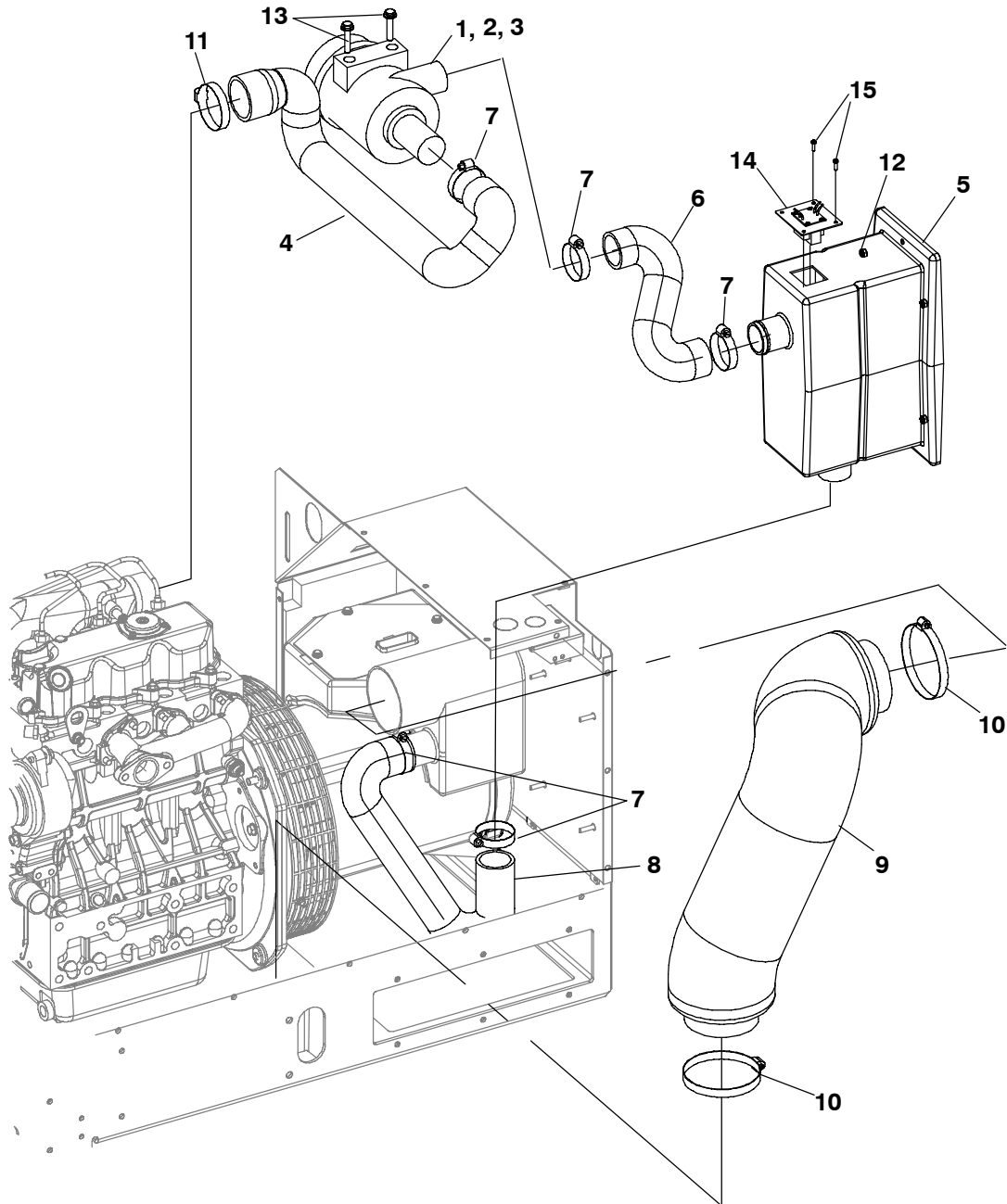
Intake Manifold



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3180	1	Manifold Inlet
2	185-5998	1	Pipe, Water Return

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	154-3188	1	Gasket, Inlet Manifold
4	185-2402	5	Bolt

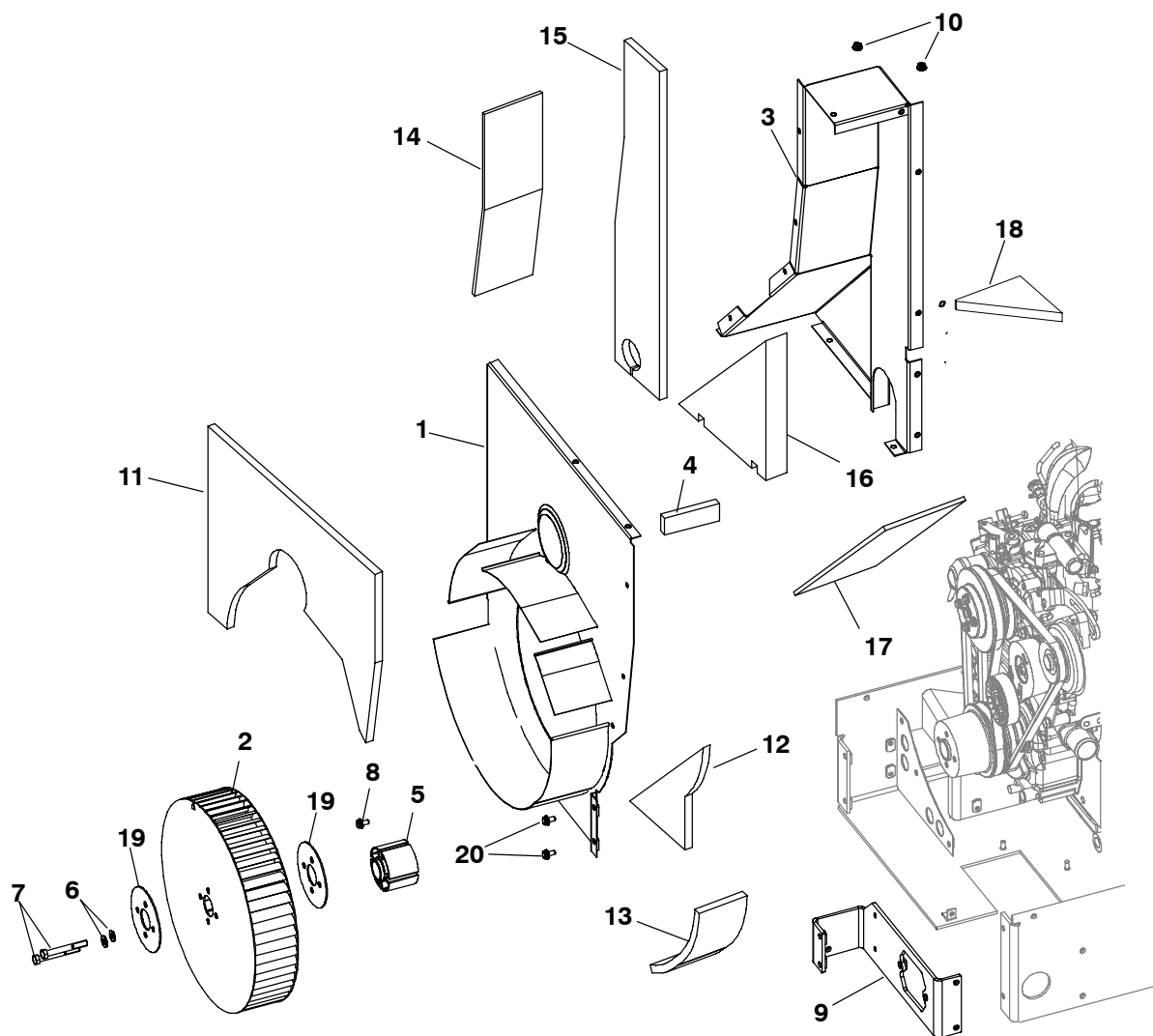
Air Intake System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3050	1	Cleaner, Air (Includes Parts Marked *)	10	503-1148	2	Clamp, Hose
2	140-3072	1	*Cover, Cleaner	11	503-0465	1	Clamp, Hose
3	140-3071	1	*Cleaner, Element	12	870-0506	5	Nut, Nylon Locking (M6)
4	503-2497	1	Hose, Intake	13	821-2097-06	2	Screw, Lock Flange (M8 x 1.25 x 40mm)
5	140-3519-01	1	Resonator, Intake	14	315-1651	1	Transformer, Current
6	503-2436	1	Hose, Air	15	815-0888	4	Screw, Pan Head (SDT)
7	503-0365	5	Clamp, Hose				
8	503-2435	1	Hose, Air (Generator)				
9	503-2446	1	Hose, Intake				

* - Parts included in Air Cleaner.

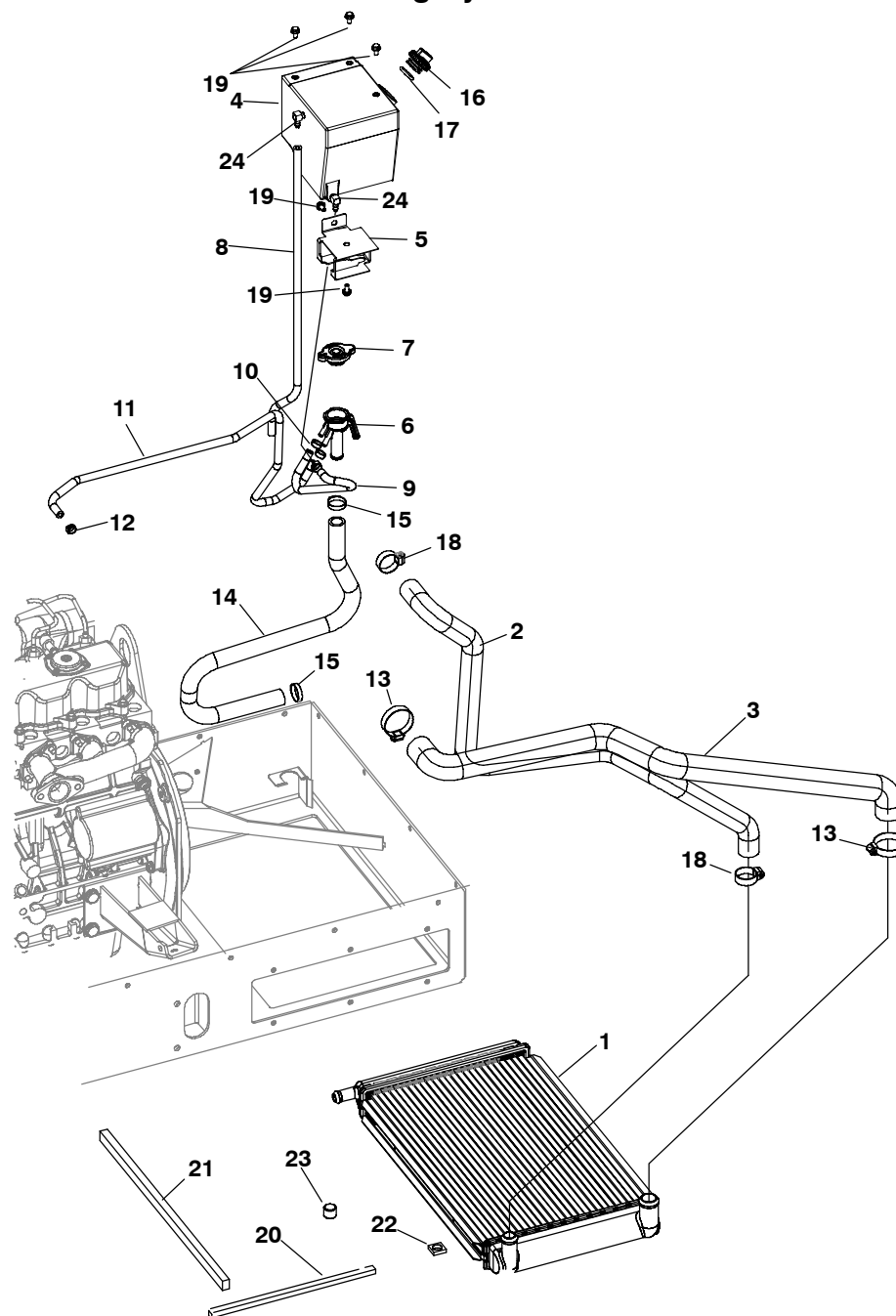
Fan Mounting



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-8238-02	1	Baffle, Air
2	130-4748	1	Fan, Sucker
3	405-9540-02	1	Duct, Air
4	405-8489	1	Insulation, Duct
5	130-1872	1	Spacer, Fan
6	740-1006	4	Washer, Flat (M8)
7	800-2066	4	Screw, Hex Head (M8 x 1.25 x 65mm)
8	821-2096-02	12	Screw, Locking Flange (M6 x 1 x 12mm)
9	403-5450-02	1	Plate, Bulkhead
10	870-2054	3	Nut, Locking, Flange (M6 x 1)

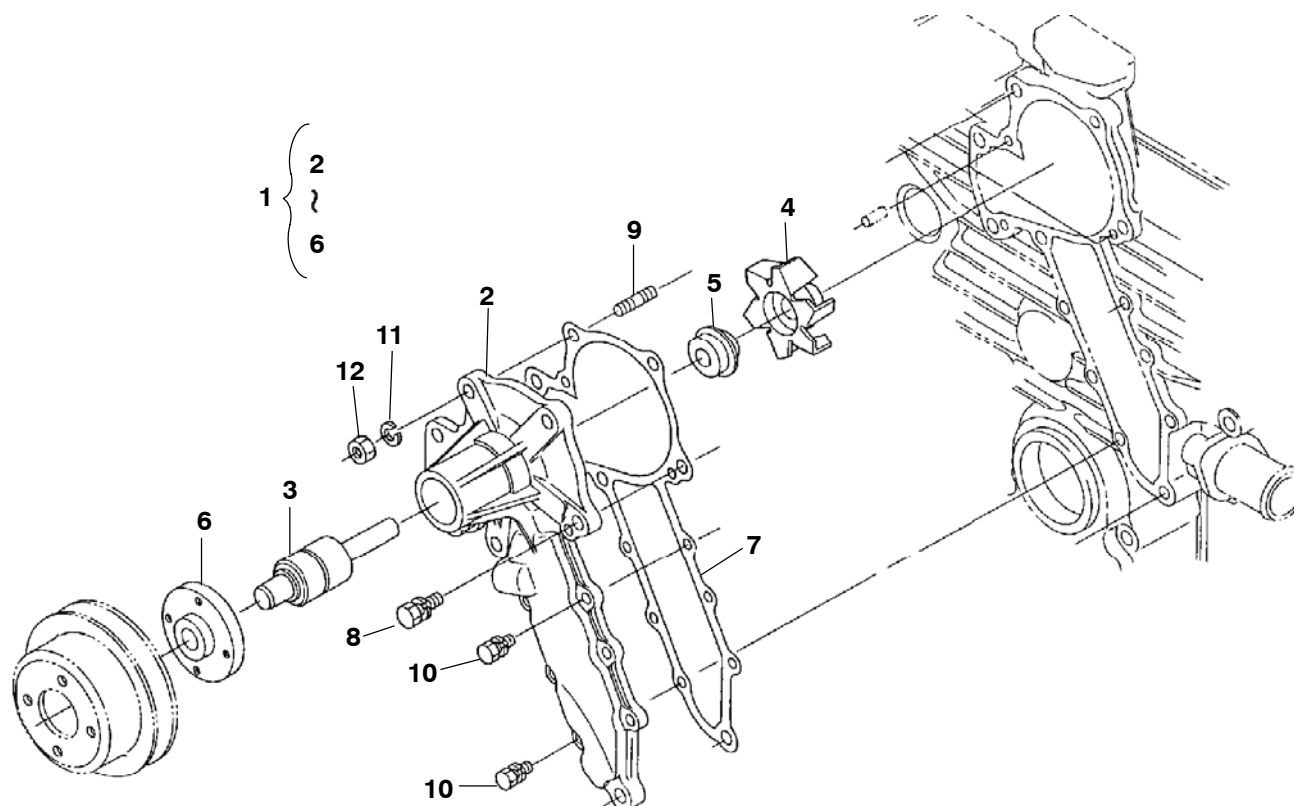
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	405-8500	1	Insulation, Baffle
12	405-8499	1	Insulation, Outlet (Duct)
13	405-8285	1	Insulation, Outlet
14	405-9150	1	Insulation, Outlet
15	405-9148	1	Insulation, Outlet (Duct)
16	405-9149	1	Insulation, Outlet (Duct)
17	405-8491	1	Insulation, Outlet (Duct)
18	405-9578	1	Insulation, Outlet (Duct)
19	205-0320-02	2	Backplate, Fan (Begin Spec B)
20	821-2096-03	7	Screw, Locking Flange (M6 x 1 x 16mm)

Cooling System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6171	1	Radiator	14	503-2554	1	Hose, Fill
2	503-2500	1	Hose, Coolant	15	503-1951-35	2	Clamp, Hose
3	503-2501	1	Hose, Coolant	16	130-4450-02	1	Cap, Push-On
4	130-4322-01	1	Tank, Recovery	17	509-0329	1	O'Ring
5	123-2240-03	1	Bracket, Fill Tube	18	503-1137	2	Screw, Hose Clamp
6	130-4321	1	Neck, Fill	19	821-2096-02	12	Screw, Locking, Flange (M6 x 1 x 12mm)
7	130-4320	1	Cap, Fill	20	130-6248	2	Seal, Radiator
8	503-1959	1	Hose, Air Bleed	21	130-6247	1	Seal, Radiator
9	503-2059	1	Hose, Overflow	22	130-6246	1	Seal, Radiator
10	503-1951-12	3	Clamp, Hose	23	505-0180	1	Plug, Counter Sunk Head
11	503-2555	1	Hose, Coolant (Vent)	24	502-1529	2	Connection, Hose Nylon 90°
12	503-1951-09	1	Clamp, Hose				
13	503-1138	2	Screw, Hose Clamp				

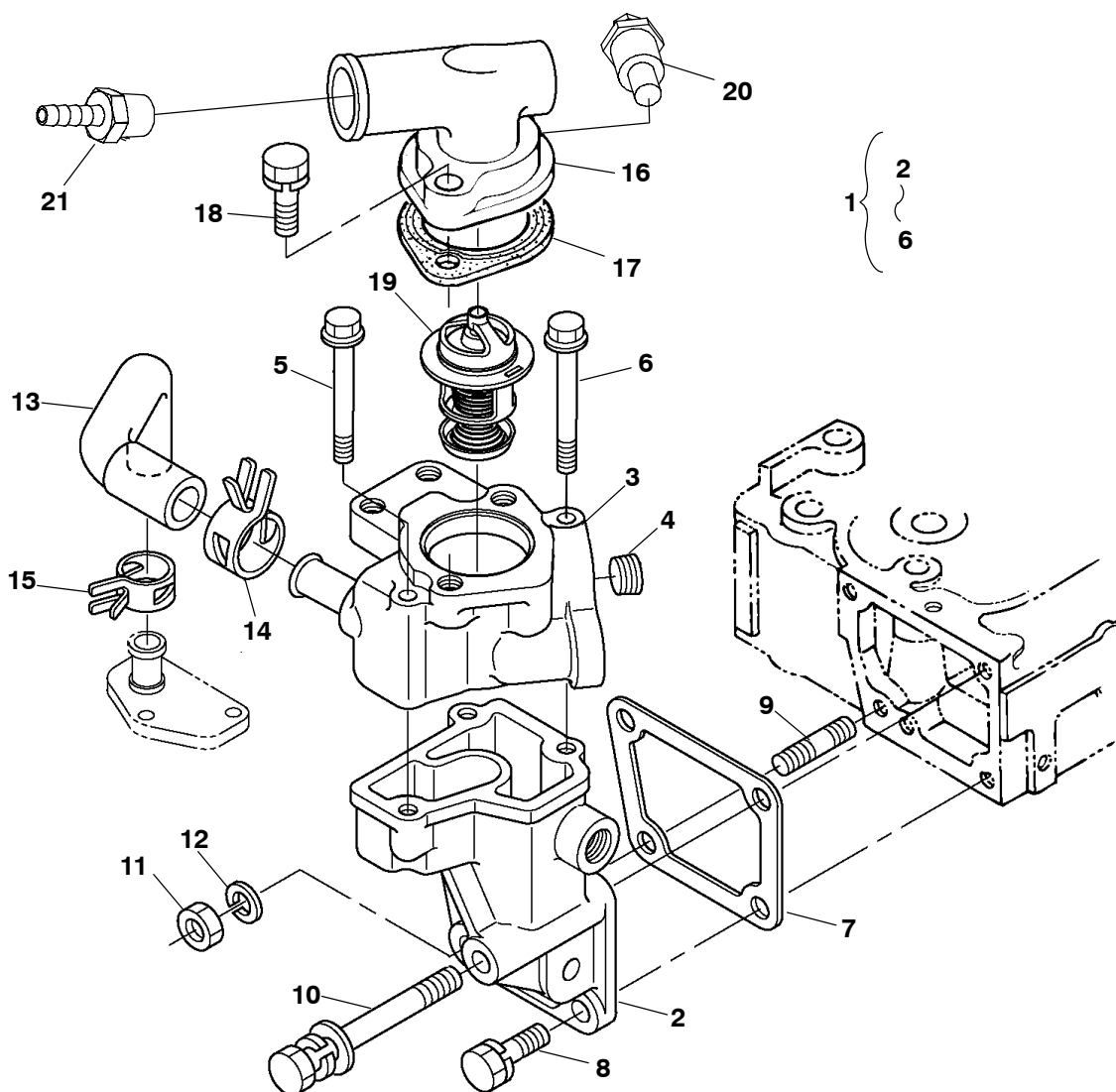
Water Pump



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	132-0448	1	Pump, Water
2	132-0446	1	Body, Water Pump
3	510-0215	1	Bearing
4	132-0444	1	Impeller, Water Pump
5	509-0419	1	Seal, Shaft
6	130-6347	1	Flange, w/ Pump Shaft
7	132-0447	1	Gasket, Water Pump

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	185-2404	2	Bolt
9	520-2655	1	Stud
10	185-2389	6	Bolt
11	185-6957	1	Washer, Spring
12	185-7116	1	Nut

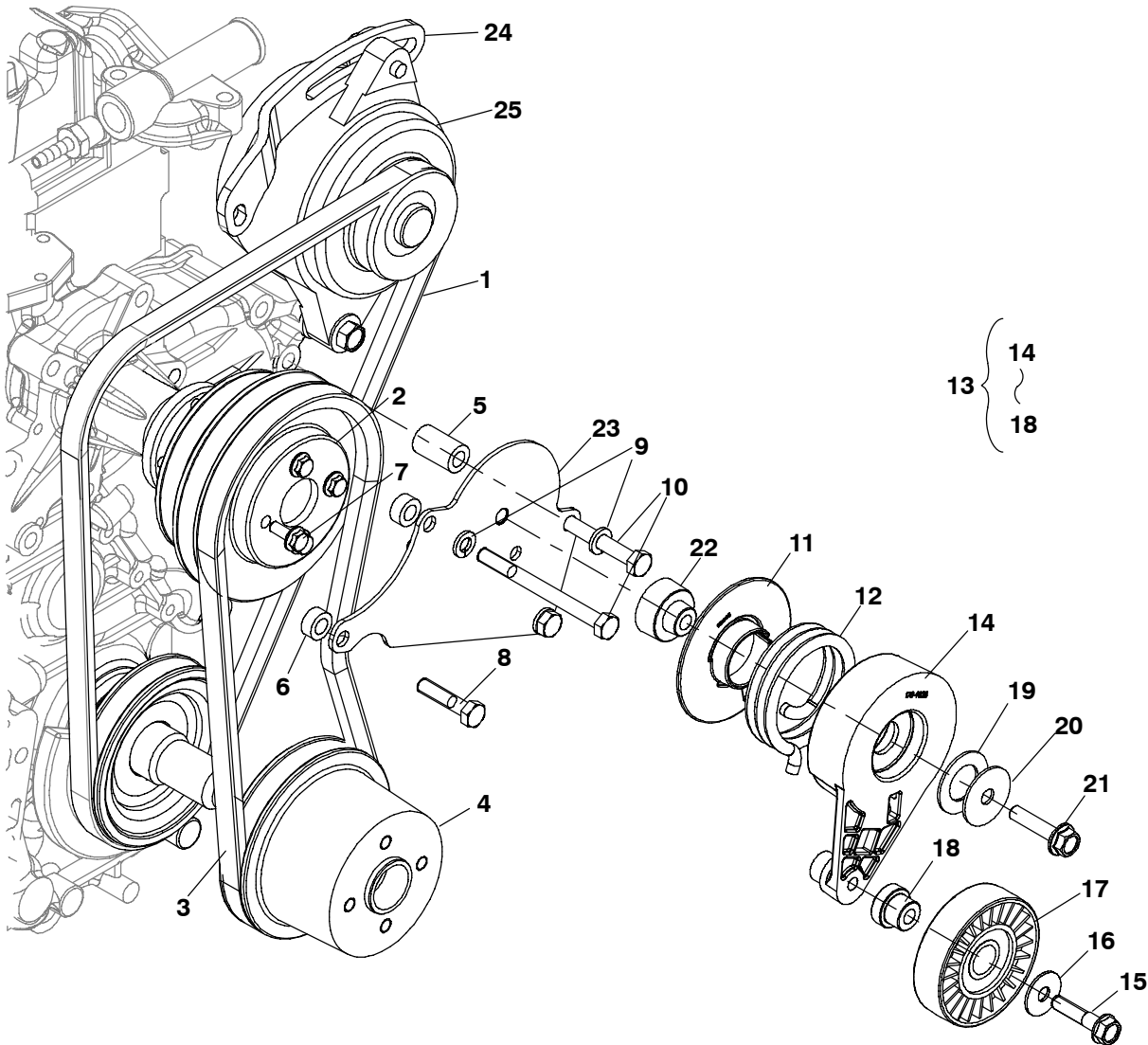
Thermostat Assy



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6330	1	Comp, Flange Water	12	185-6957	1	Washer, Spring
2	130-6331	1	Flange, Water	13	503-2553	1	Pipe, Water Return
3	130-6333	1	Flange, Water	14	185-6722	1	Clamp, Hose
4	505-2252	1	Plug	15	503-2552	1	Clamp, Hose
5	800-6331	2	Bolt, Flange	16	185-7298	1	Cover, Thermostat
6	800-6332	1	Bolt, Flange	17	130-6332	1	Gasket, Thermostat
7	130-6334	1	Gasket, Water Flange	18	185-2565	2	Bolt
8	185-2402	1	Bolt	19	130-6329	1	Thermostat
9	185-2106	1	Stud	20	193-0318	1	Sender, Water Temperature
10	800-6328	1	Bolt	21	502-1367-05	1	Connector, Hose
11	185-7116	1	Nut				

“Blank Page”

Pulley System (Spec A)

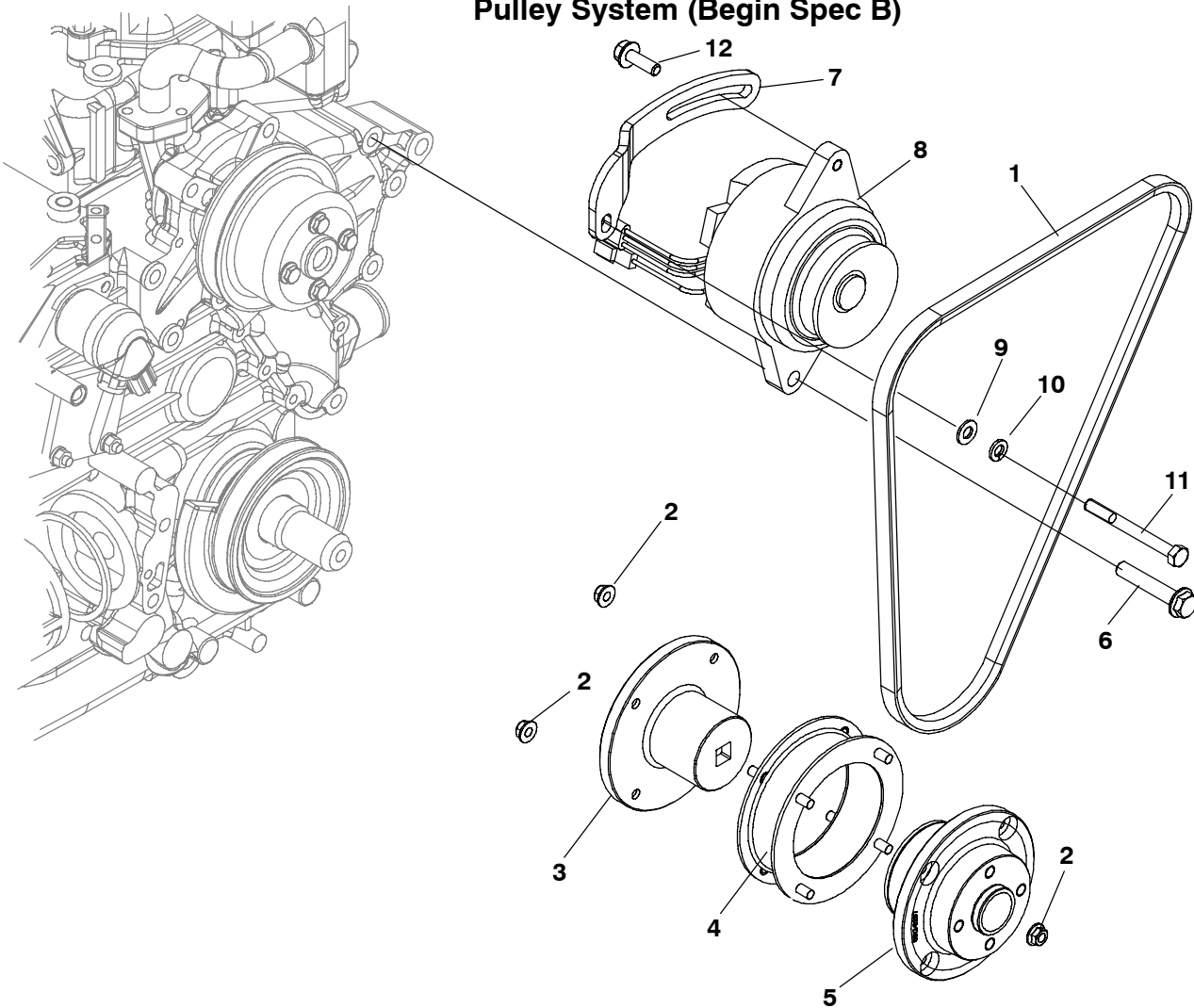


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	511-0218	1	Belt, Drive
2	512-0276	1	Pulley, Water Pump
3	511-0214	1	Belt, Drive
4	512-0279	1	Assy, Coupling
5	512-0287-02	2	Bushing, Tensioner
6	512-0287-01	2	Bushing, Tensioner
7	821-2033	4	Screw, Locking Head Flange (M6 x 1 x16mm)
8	800-2060	1	Screw, Hex Head Cap (M8 x 1.25 x 35mm)
9	850-2008	4	Washer, Locking Split (M8)
10	800-2072	2	Screw, Hex Head Cap (M8 x 1.25 x 100mm)
11	190-0754	1	Bushing, Tensioner
12	190-0753	1	Spring, Tensioner
13	512-0316	1	Assy, Tensioner Arm (Includes Parts Marked *)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
14	512-0316	1	*Arm, Tensioner
15	800-0052	1	*Screw, Thread Form (3/8-16 x 15")
16	526-2120	1	*Washer, Flat (M10)
17	512-0199	1	*Pulley, Tensioner
18	192-0451	1	*Hub, Bearing Pulley
19	190-0759	1	Washer, Tensioner
20	526-0461	1	Washer, Flat (M9 x 34mm)
21	815-0954-05	1	Screw, Flange Head Mach (M8 x 35mm)
22	192-0452	1	Hub, Bearing Tensioner
23	512-0283-02	1	Bracket, Tensioner
24	191-2378	1	Bracket, Alternator
25	191-2377	1	Alternator

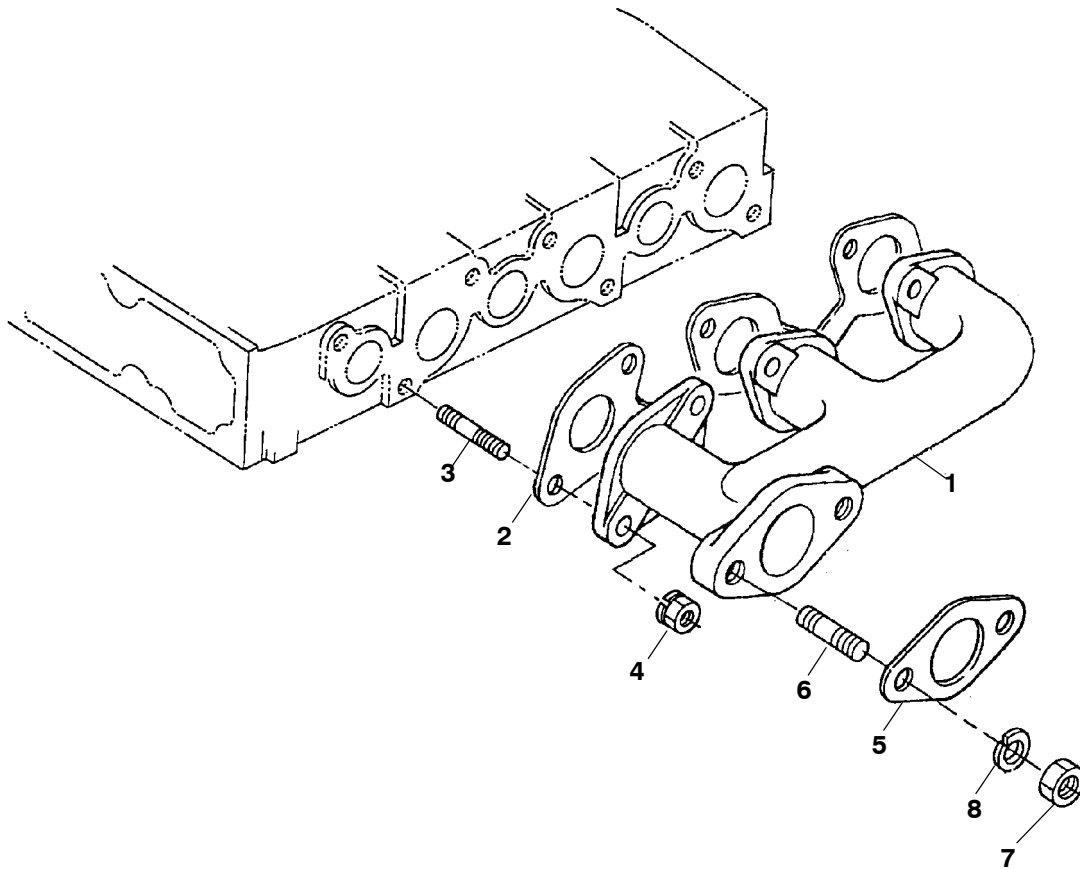
* - Parts included in Tensioner Arm Assembly

Pulley System (Begin Spec B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	511-0218	1	Belt, Drive
2	870-2065-02	8	Nut, Hex Flange (M6)
3	512-0294	1	Hub, Coupling
4	512-0268	1	Coupling, Assy
5	512-0302	1	Hub, Coupling
6	821-2067	1	Screw, Locking Flange (M10 x 1.5 x 55mm)
7	191-2380-02	1	Bracket, Alternator
8	191-2379	1	Alternator
9	526-2100	1	Washer, Flat (M8)
10	850-2008	1	Washer, Lock Split (M8)
11	800-2069	1	Screw, Hex Head Cap (M8 x 1.25 x 80mm)
12	815-0954-03	1	Screw, Flange Head (M8 x 25mm)

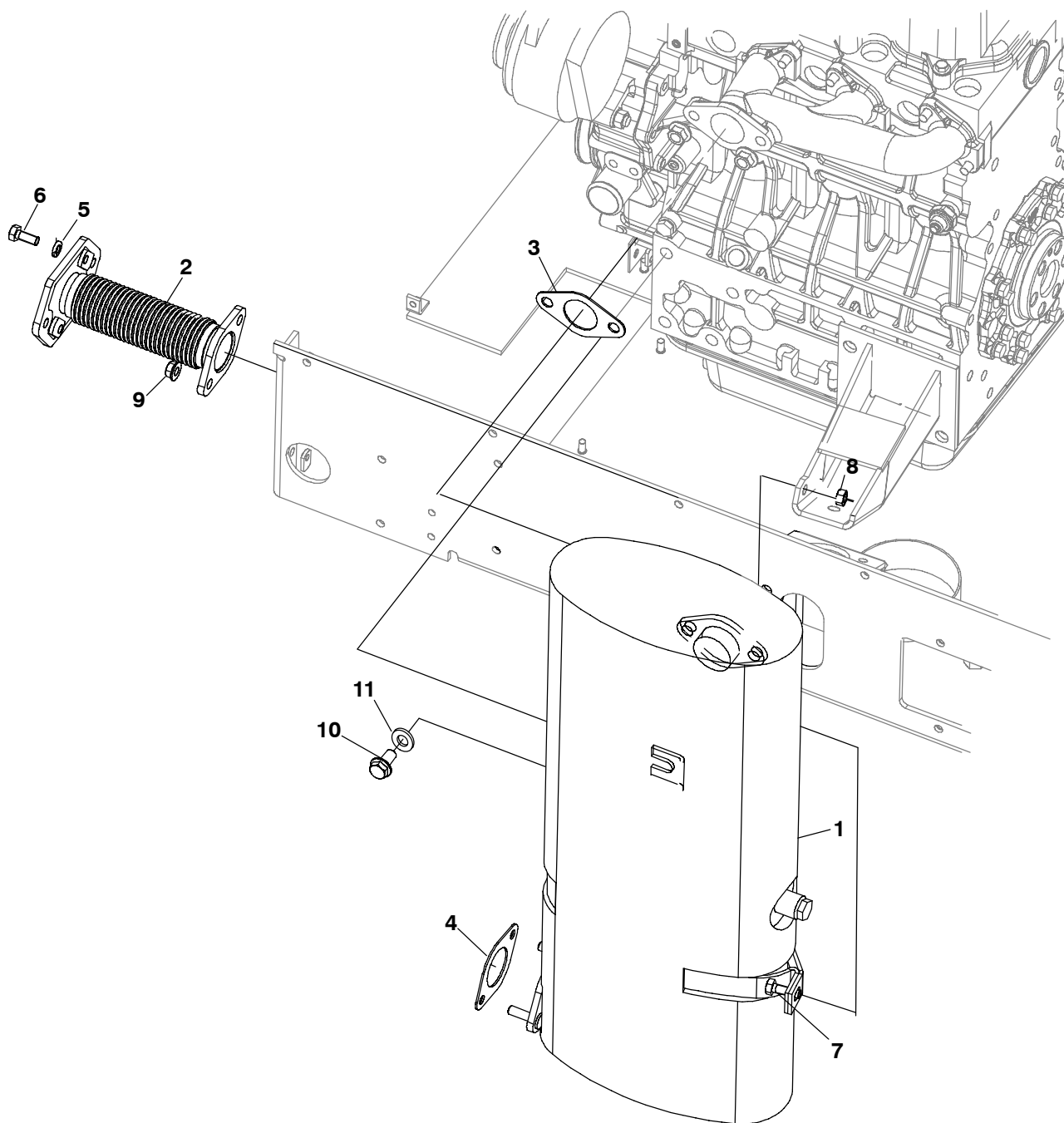
Exhaust Manifold



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3181	1	Manifold, Exhaust
2	154-3189	1	Gasket, Exhaust Manifold
3	185-2106	6	Stud
4	860-2069	6	Nut
5	185-6848	1	Gasket, Exhaust Out

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	520-2654	2	Stud
7	185-5445	2	Nut,
8	185-6785	2	Washer, Plain

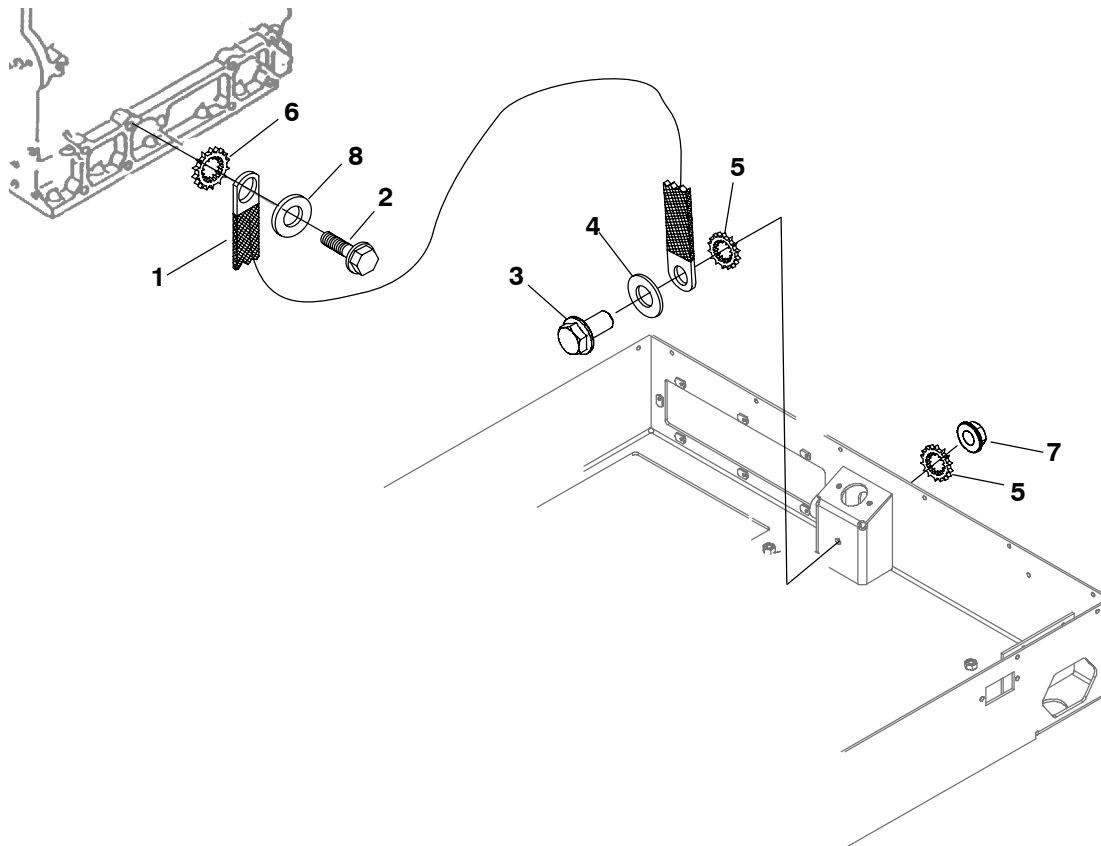
Exhaust System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-4411	1	Muffler
2	154-3033	1	Pipe, Flex Exhaust
3	185-6848	1	Gasket, Exhaust Manifold
4	154-2800	1	Gasket, Exhaust Manifold
5	850-2008	2	Washer, Split Locking (M8)
6	800-2057	2	Screw, Hex Head Cap (M8 x 1.25 x 20mm)
7	815-0954-03	1	Screw, Hex Flanged Head (M8 x 1.25 x 25mm)

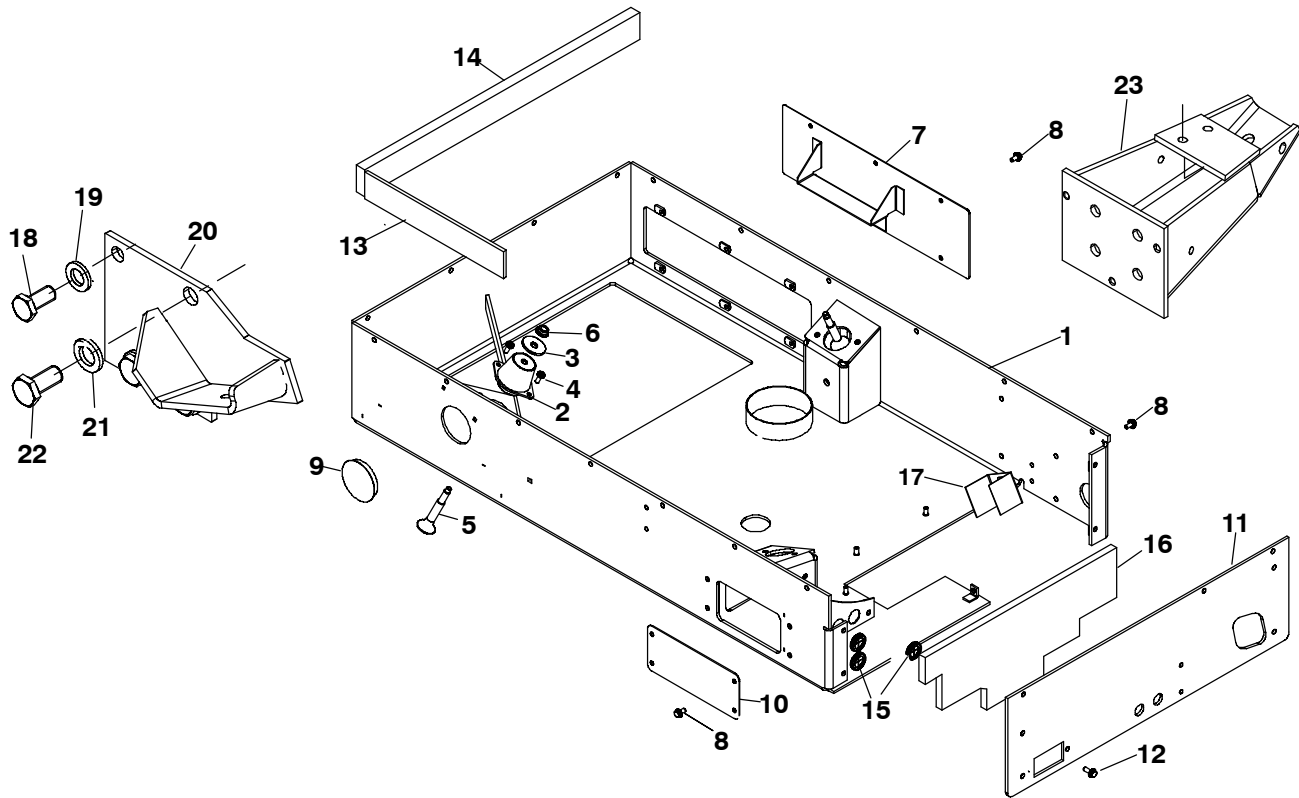
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	870-2055	1	Nut, Locking Flange Head (M8 x 1.25mm)
9	870-2065-03	2	Nut, Hex Flange
10	800-3033	1	Screw, Hex Head Cap (M12 x 1.25 x 25mm)
11	526-0399-64	1	Washer, Flat

Ground System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	337-0090	1	Strap, Electrical	5	856-0010	2	Washer, EIT Locking
2	800-3031	1	Screw, Hex Head Cap (M12 x 1.25 x 20mm)	6	856-0013	1	Washer, EIT Locking
3	821-2061	1	Screw, Locking Head Flange (M10 x 25mm)	7	870-2056	1	Nut, Locking Flange (M10 x 1.5mm)
4	526-2120	1	Washer, Flat (M10)	8	526-2140	1	Washer, Flat (M12)

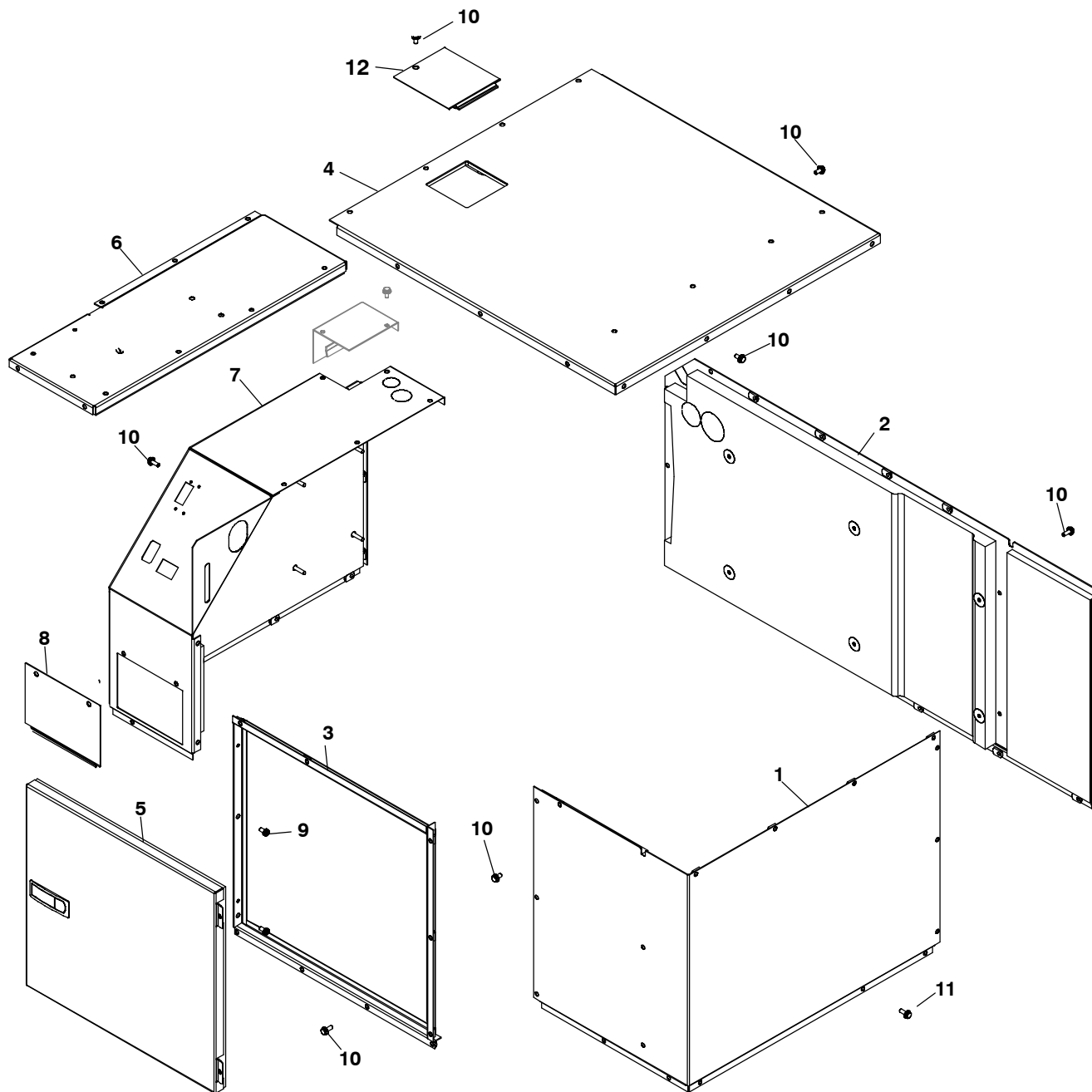
Mounting System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-6072-02	1	Assy, Drip Pan
2	402-0680-03	3	Isolator, Engine
3	526-0014	4	*Washer, Flat (7/16")
4	821-2032	6	Screw, Locking Head (M6 x 1 x 12mm)
5	815-0861	3	Screw, Isolator Mount
6	870-2056	4	Nut, Lock Flange (M10 x 1.5mm)
7	403-5519-02	1	Mounting, Radiator
8	821-2096-02	12	Screw, Lock Flange (M6 x 1 x 12mm)
9	517-0138-09	1	Plug, Hole
10	149-2734-02	1	Cover, Fuel Pump
11	403-5520-02	1	End, Cap Skid
12	821-2096-03	4	Screw, Locking Flange (M6x 1 x 16mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
13	130-6249	1	Seal, Radiator
14	130-6250	1	Seal, Radiator
15	508-0071	4	Grommet, Rubber
16	405-8284	1	Insulation, Outlet
17	134-5341-02	1	Vane, Air
18	800-3030	1	Screw, Hex Head Cap (M10 x 1.25 x 20mm)
19	526-2120	1	Washer, Flat (M10)
20	403-5359-02	1	Bracket, Engine (Front Assy)
21	526-0399-64	8	Washer, Flat (M12)
22	800-3033	8	Screw, Hex Head Cap (M12 x 1.25 x 25mm)
23	403-5356-02	1	Bracket, Engine (Back Assy)

Housing

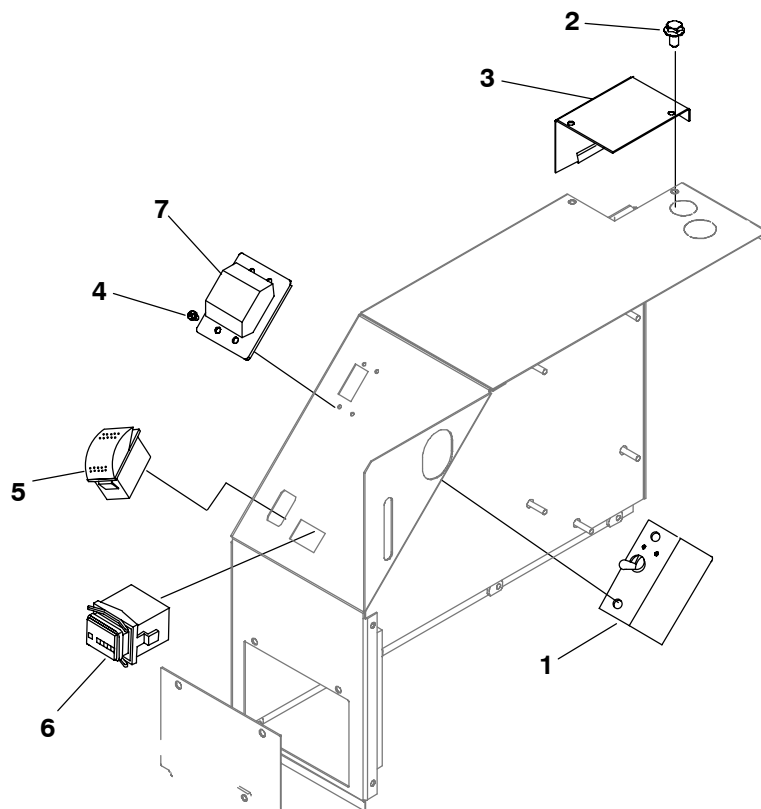


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-8252	1	Panel, Enclosure
2	405-8248	1	Panel, Enclosure
3	405-8352-02	1	Frame, Door
4	405-9821	1	Panel, Enclosure
5	405-5895-01	1	Assy, Door (Includes Latches and Insulation)
6	405-9822	1	Panel, Enclosure (Top)
7	405-8294	1	Panel, End Cap
8	212-1308-02	1	Cover, Brush Block
9	823-1002-01	2	Screw, Pan Head Mach (Torx M6 x 1 x 12mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	821-2096-02	43	Screw, Locking Flange (M6 x 1 12mm)
11	821-2096-03	20	Screw, Locking Flange (M6 x 1 12mm)
12	405-8720	1	Panel, Access

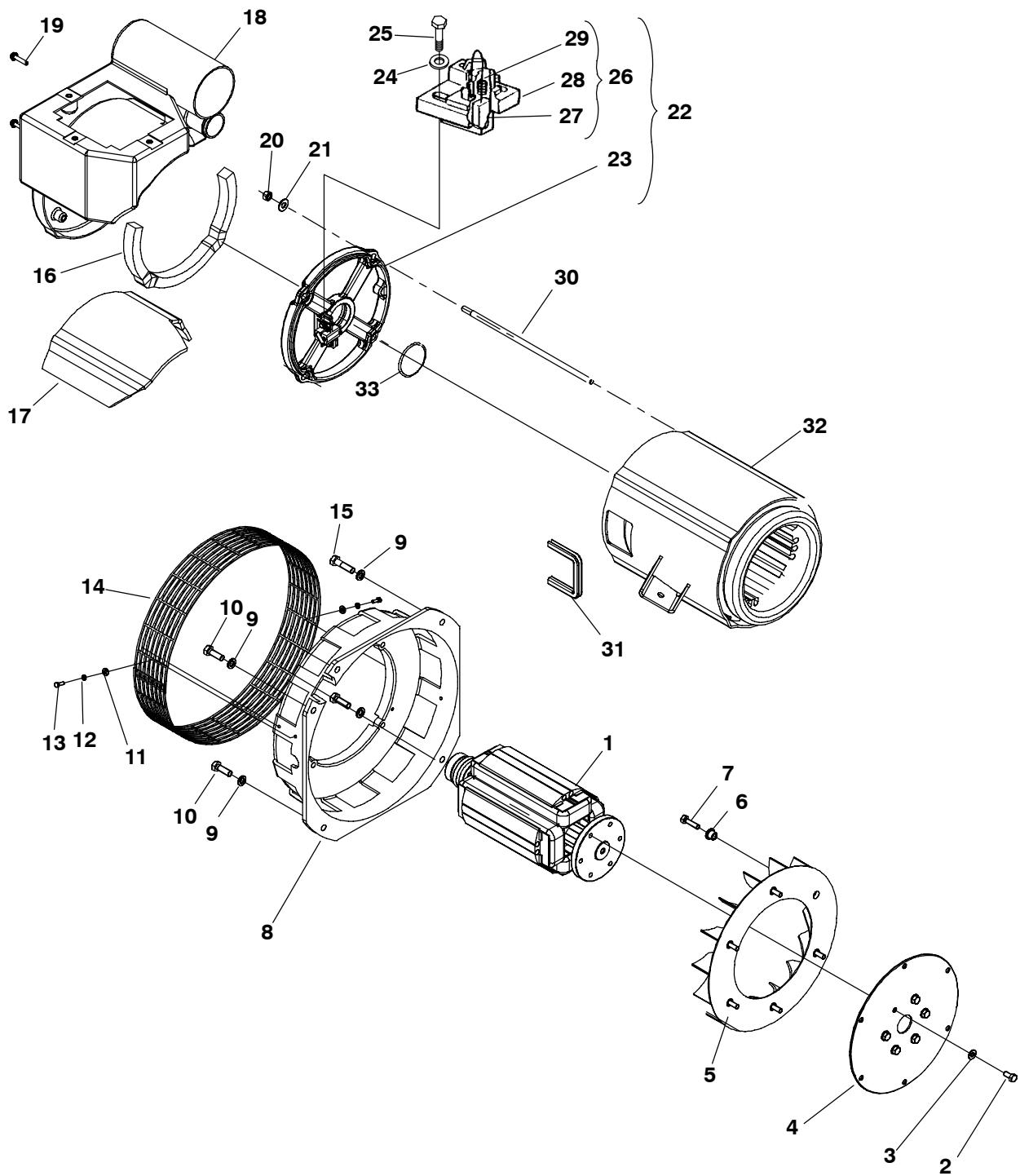
* - All Panels Include Insulation and Push-Ons.

Housing End Cap



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit	4	815-0549	4	Screw, Pan Head
	320-1984-08	1	45A (HDKCC)				(6-32 x .25")
	320-1984-06	1	35A (HDKCC)	5	308-1038	1	Switch, Rocker
	320-1984-09	1	50A (HDKCD)	6	302-2002	1	Meter, Hour
2	821-2096-02	2	Screw, Lock Flange	7	320-1951-01	1	Boot, Circuit Breaker
3	405-5380-05	1	Cover, AC				

Generator

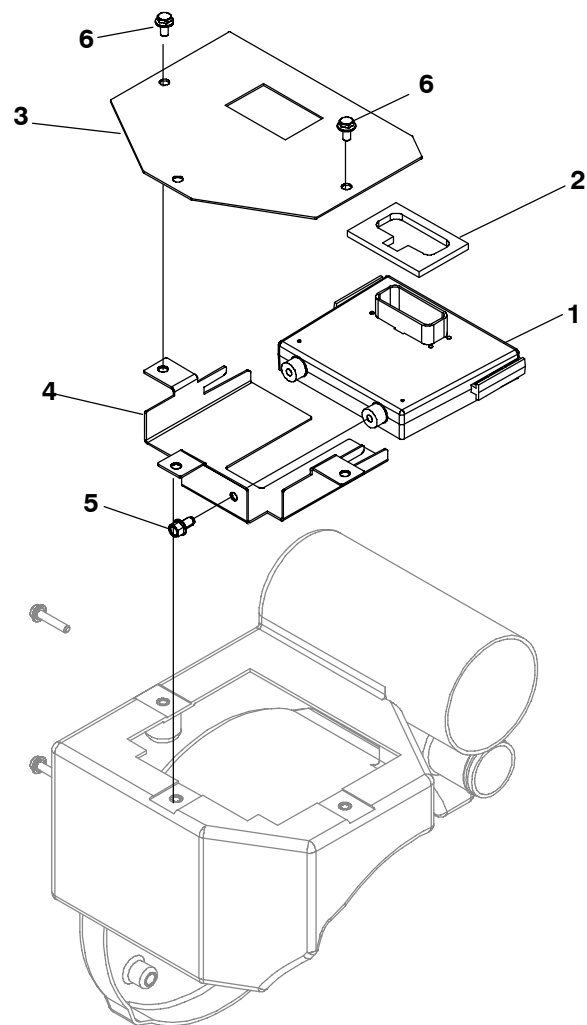


Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Rotor, Generator	23			#End, Bell Generator
	201-3558-03	1	HDKCC (142mm, 50Hz)		211-0447-01	1	Spec A
	201-3549-03	1	HDKCC (142mm, 60Hz)		211-0485-01	1	Begin Spec B
	201-3549-04	1	HDKCD (178mm, 60Hz)	24	526-0399-56	2	#Washer, Flat (M5)
2	800-2056	6	Screw, Hex Head Cap (M8 x 1.25 x 16mm)	25	800-0309-89	2	#Screw, Hex Head Machine (M5 x 0.8 x 16)
3	526-2100	6	Washer, Flat (M8)	26	212-1285-S0	1	#Block Assy, Generator Brush (Includes Parts Marked >)
4			Disc, Generator Drive	27	212-1286-S0	1	>Block, Brush
	232-3915	1	Spec A	28	214-0103	2	>Brush, Generator
	232-4145	1	Begin Spec B	29	212-1276-03	2	>Spring, Generator Brush
5	205-0220	1	Fan, Generator	30			Stud
6	232-3296	6	Spacer, Fan		520-1000-03	4	HDKCC (142mm)
7	800-2515	6	Screw, Hex Head Cap (M8 x 1.25 x 30mm)		520-1000-04	4	HDKCD(178mm)
8	231-0347	1	Adapter, Generator	31	508-1049-04	1	Edging
9	850-2010	4	Washer, Lock (M10)	32			Stator, Generator
10	800-2087	3	Screw, Hex Head Cap (M10 x 30mm)				Spec A
11	526-2080	3	Washer, Flat (M6)		220-4649-04	1	HDKCC (142mm, 60Hz)
12	850-2005	3	Washer, Lock (M5)		220-4649-02	1	HDKCD (178mm, 60Hz)
13	800-2006	3	Screw, Hex Head Cap (M5 x 14mm)				Begin Spec B
14	232-3755-02	1	Guard, Fan		220-4649-07	1	HDKCC (142mm, 50Hz)
15	800-2089	1	Screw, Hex Head Cap (M10 x 1.5 x 40mm)		220-4649-03	1	HDKCC (142mm, 60Hz)
16	405-7774	1	Insulation Cover (Endbell)		220-4649-01	1	HDKCD (178mm, 60Hz)
17	405-7773	1	Insulation Cover (Generator)	33			O'Ring
18	234-1020	1	Cover, Generator Intake		509-0196	1	Spec A
19	821-2096-06	4	Screw, Locking Flange (M6 x 30mm)		509-0420	1	Begin Spec B
20	862-0003	4	Nut, Hex (3/8-16)				
21	526-0029	4	Washer, Flat (3/8")				
22	211-0485-01	1	Endbell Assy (Includes Parts Marked #)				

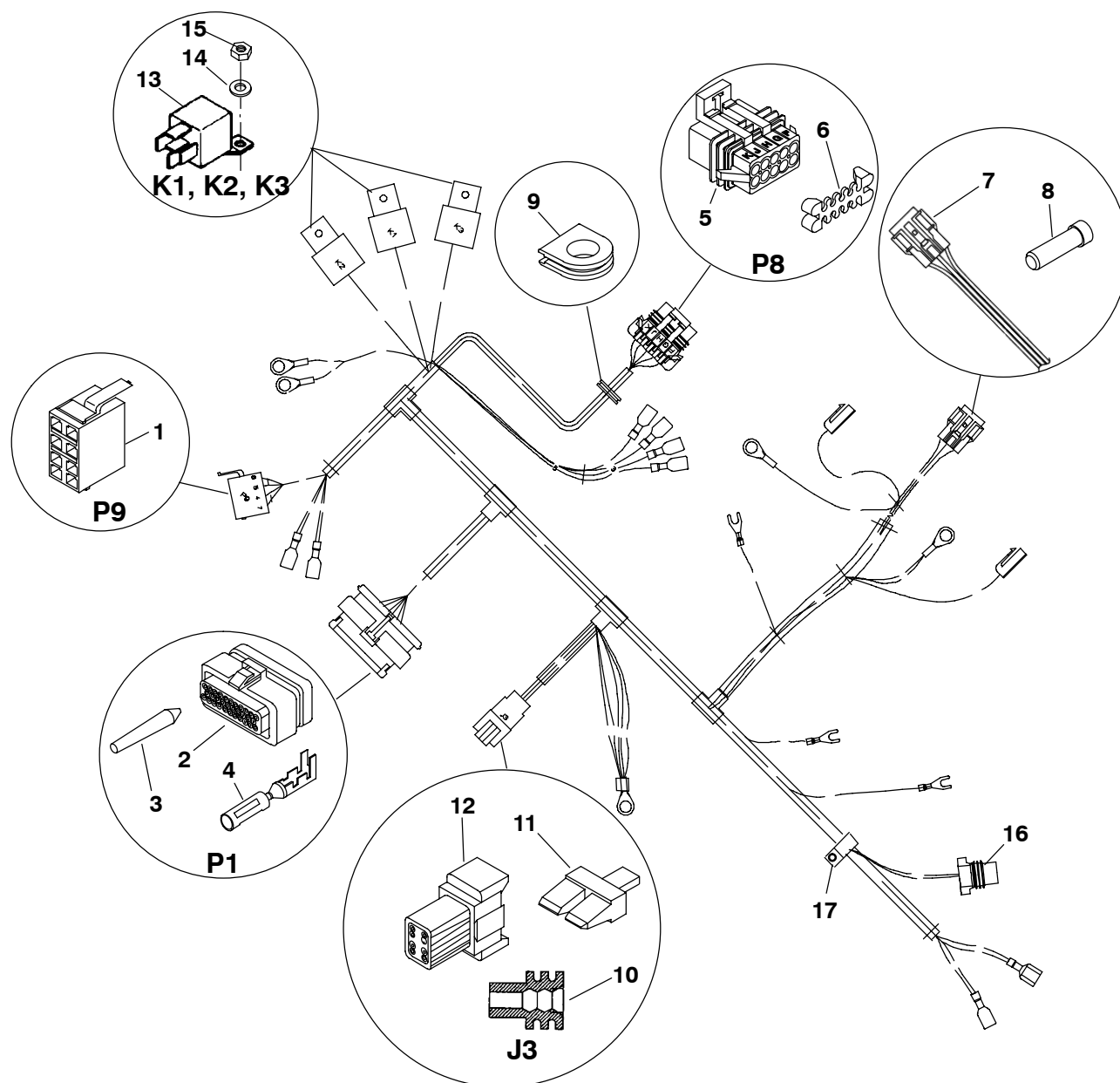
* - 524-0118 - Generator Lube
- Parts Included in Endbell Assy.
> - Parts Included in Generator Brush Block Assy.

Control



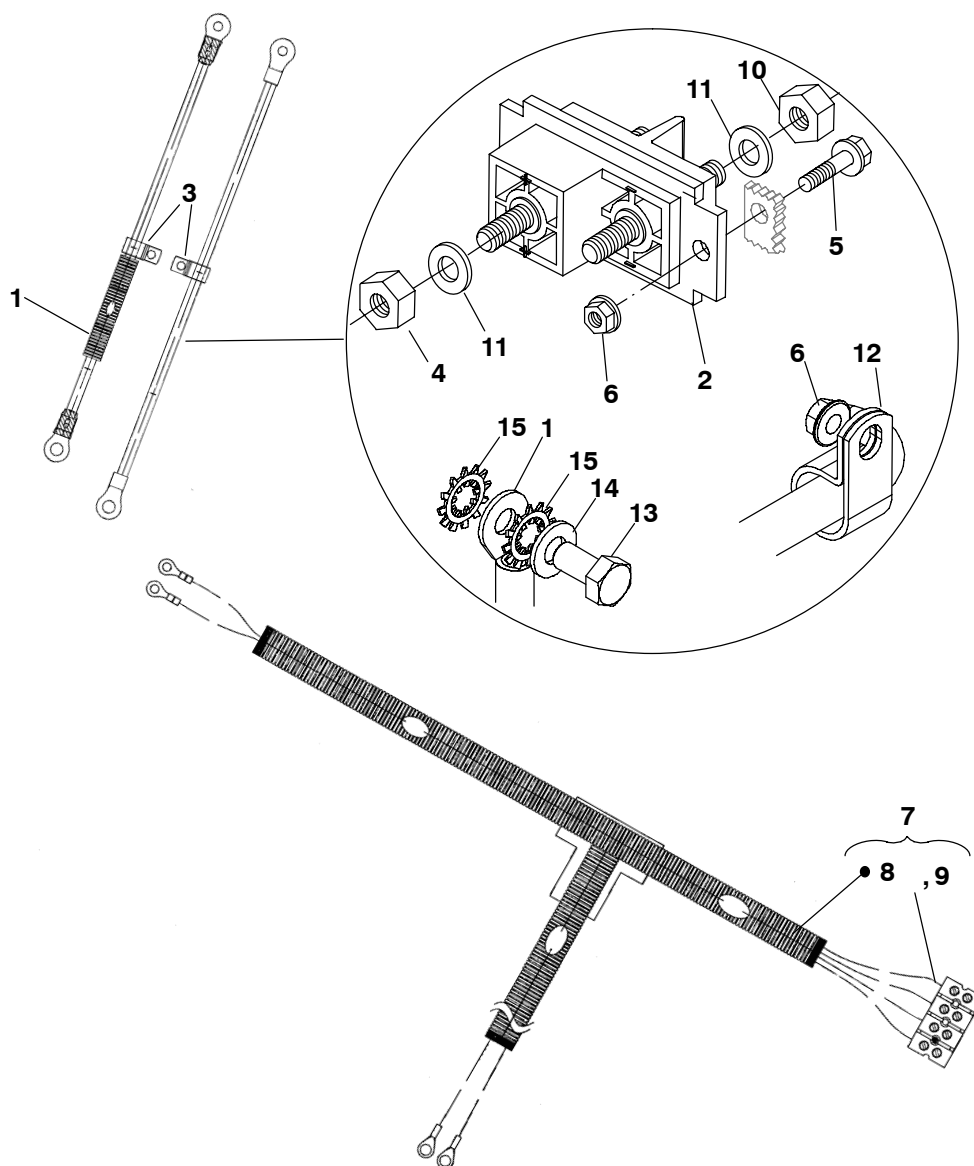
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-5961	1	PCB (Control) Spec A	4	319-5199-03	1	Bracket, Control
	327-1501	1	Begin Spec B	5	815-0943-02	1	Screw, Hex Thread Form
2	405-7808	1	Insulation, Cover Plug	6	821-2096-02	3	Screw, Locking Flange (M6 x 12mm)
3	319-5200-03	1	Cover, Control (Generator Intake)				

Engine Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338-4461	1	Harness, Engine	8	323-1591	2	Plug, Cavity
	338-4856	1	Harness, Engine (HDKCC 50Hz)	9	508-1105	1	Grommet
1	308-1019	1	Connector, Switch (P9)	10	323-1708	AR	Seal, Cable
2	323-1819-01	1	Connector, Plug (35 Pin) (P1)	11	323-1544	1	Wedge (J3)
3	323-1615	5	Plug, Cavity (P1)	12	323-1542	1	Connector (8 Pin) (J3)
4	323-1614-01	AR	Socket, Terminal (P1)	13	307-1886	3	Relay (K1 and K2)
5	323-1711	1	Connector, Plug (10Pin) (P8)	14	526-0003	3	Washer
6	323-1719	1	Lock, Housing	15	860-2005	3	Nut, Lock Flange (M4 x 1)
7	323-1773	AR	Connector, Alt	16	323-2166	1	Connector, Receptacle
				17	332-1356	2	Clamp, Loop

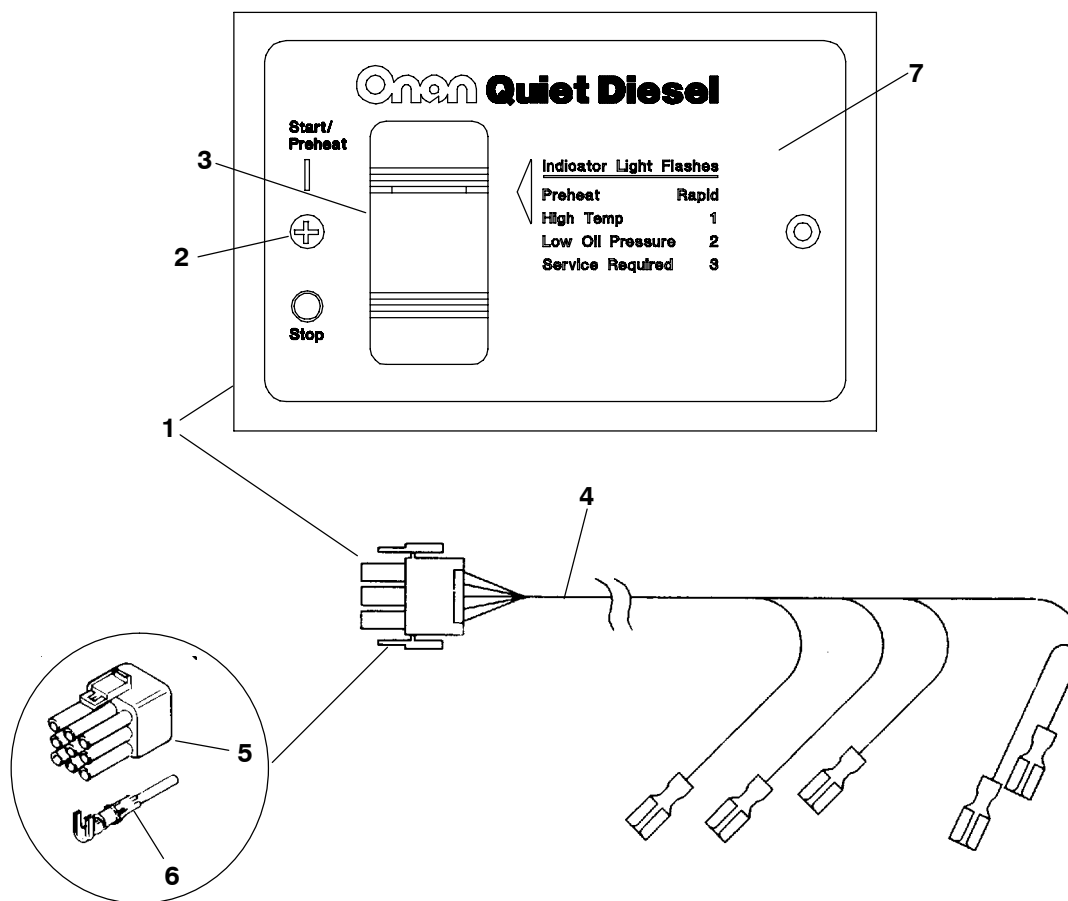
Battery/AC Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4498	1	Harness, Wiring (Includes Parts Marked *)	10	871-0025	2	Nut, Hex Brass (5/16-18)
2	332-3408	1	*Block, Terminal (TB1)	11	526-0054	4	Washer, Flat (5/16")
3	332-1554	2	*Clamp, Insulated Loop	12	332-1356	1	Clamp, Insulated Loop
4	862-0015	2	*Nut, Hex (5/16-18)	13	800-3030	1	Screw, Hex Head (M10 x 1.25 x 20mm)
5	821-2096-03	2	Screw, Lock Flange (M6 x 1 x 16mm)	14	526-2120	1	Washer, Flat
6	870-2054	3	Nut, Lock Flange (M6 x 1)	15	856-0010	2	Washer, Eit
7	338-4384	1	Harness, AC (Includes AC Terminal Block)				
8	332-3531-03	1	Block, AC Terminal (TB2)				
9	812-0070	2	Screw, Round Head Machine (6-32 x 1-1/4")				

* - Parts Included in Battery Wiring Harness.

Remote Switch Panel

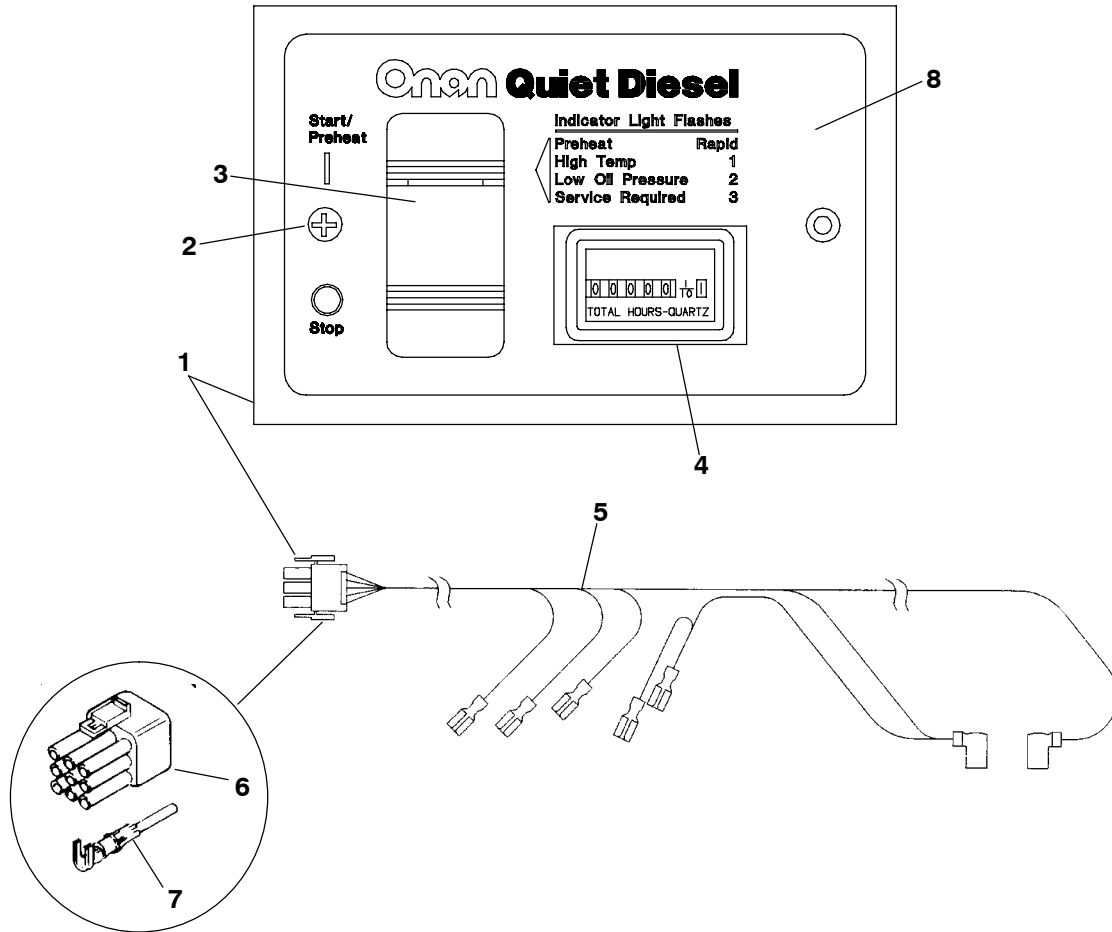


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4942	1	Kit, Switch Only Remote Panel
1	300-4953-03	1	Assy, Panel Remote (Includes Parts Marked *)
2	815-0910	2	Screw, Wood Mounting (#6 x 1)
3	308-1062	1	*Switch, Rocker
4	338-3512	1	*Harness, Remote Panel (Includes Pins and Plug)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	323-1291	1	Plug (9 Pin)
6	323-1199	4	Pin, Contact
7	319-2340-01	1	*Panel, Printed

All Parts Included in Switch only Remote Panel Kit.

Remote Switch/Hourmeter Panel

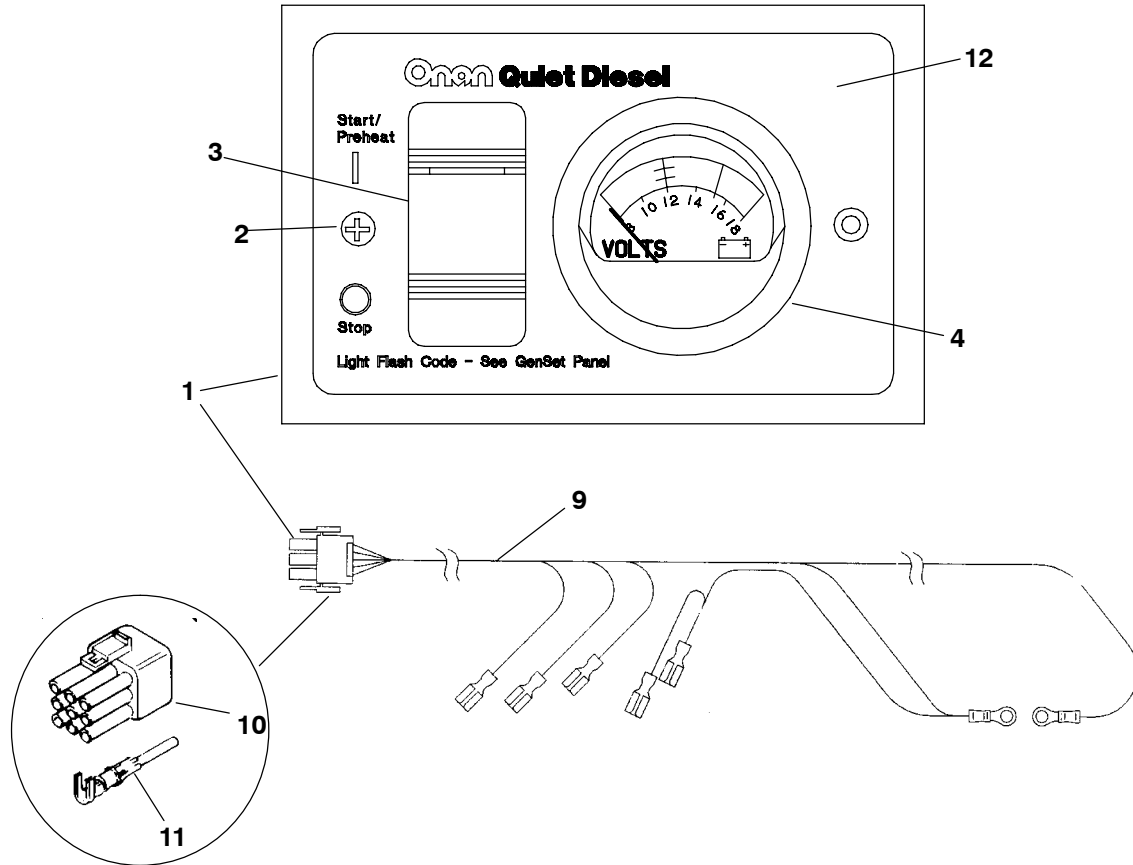


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4943	1	Kit, Remote Switch/Hourmeter Panel
1	300-4951-03	1	Assy, Remote Panel (Includes Parts Marked *)
2	815-0910	2	Screw, Wood Mounting (#6 x 1)
3	308-1062	1	*Switch, Rocker
4	302-2002	1	*Hourmeter
5	338-3475	1	*Harness, Remote Panel (Includes Pins and Plug)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	323-1291	1	Plug (9 Pin)
7	323-1199	4	Pin, Contact
8	319-2340-02	1	*Panel, Printed

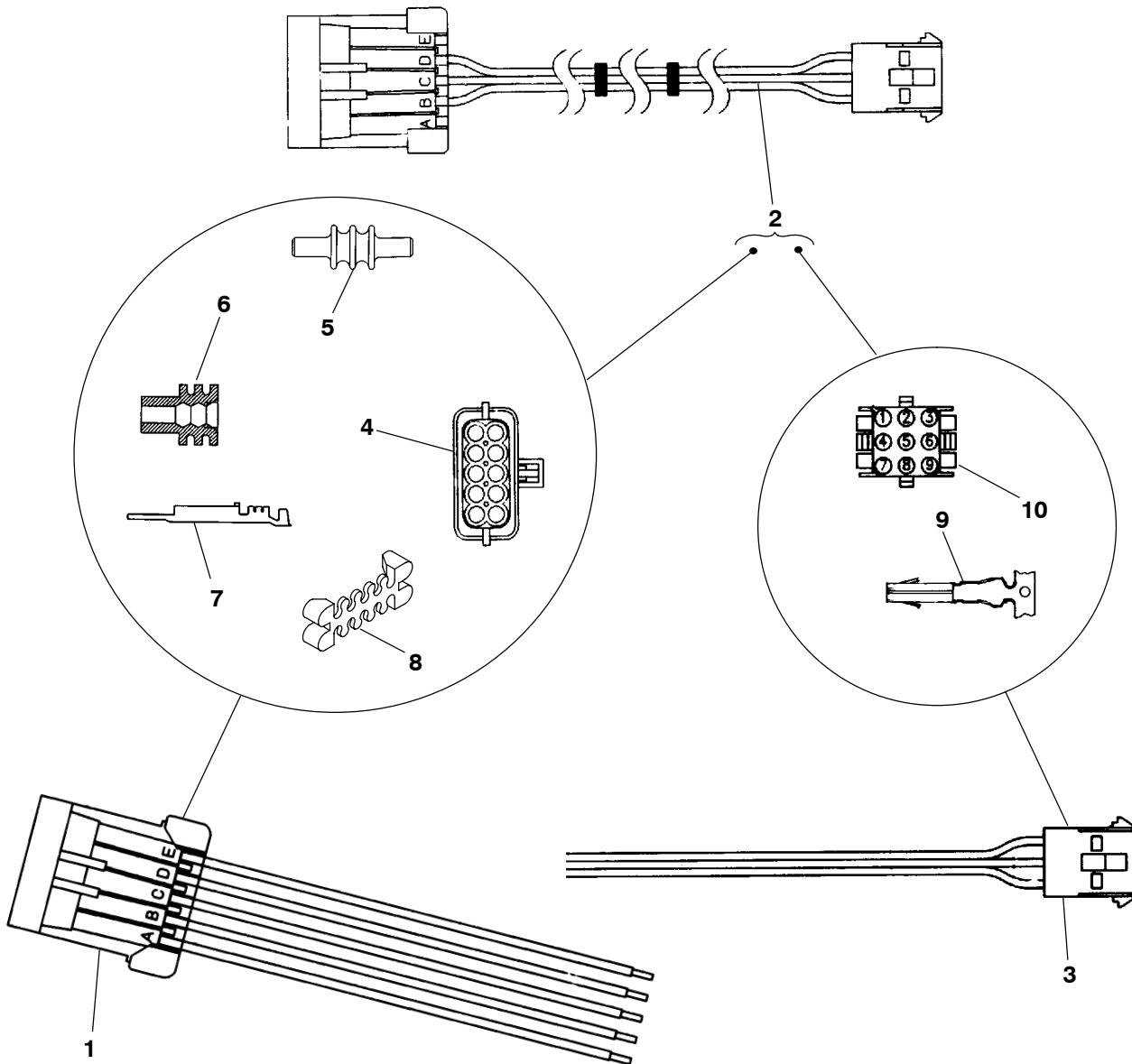
All Parts Included in Remote Switch / Hourmeter Panel Kit.

Remote Switch / Voltmeter Panel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4944	1	Kit, Switch/Voltmeter	8	850-0030	2	Washer, Lock
1	300-4952-03	1	Assy, Remote Panel (Includes Parts Marked *)	9	338-3509	1	*Harness, Remote Panel (Includes Pins and Plug)
2	815-0910	2	Screw, Wood Mounting (#6 x 1)	10	323-1291	1	Plug (9 Pin)
3	308-1062	1	*Switch, Rocker	11	323-1199	4	Pin, Contact
4	302-1641	1	*Meter, Voltage	12	319-3132-03	1	*Panel, Printed
5	526-0409	2	*Washer, Nylon	All Parts Included in Switch / Voltmeter Kit, Meter Hardware not Shown.			
6	526-0049	4	*Washer, Flat				
7	871-0010	4	*Nut, Hex Brass Machine (10-32)				

Remote Harnesses



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-4947	1	Harness, Remote (Includes Parts Marked *)
2			Harness, Remote Panel (Includes Parts Marked +)
	338-3490-01	1	10'
	338-3490-02	1	30'
3	338-3573	1	Harness, Adapter (Includes Parts Marked #)
4	323-1710	1	+*Connector, Receptacle
5	323-1712	2	+*Plug, Cavity

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	323-1708	8	+*Seal, Cable
7	323-1707	8	+*Pin, Contact
8	323-1719	1	+*Housing, Lock
9	323-1200	AR	+*Socket, Contact
10	323-1325	1	+*Cap, Connector*

- Parts Included in Remote Harness (300-4947).
+ - Parts Included in Remote Panel Harness (338-3490).
- Parts Included in Adapter Harness (338-3573).

Labels, Miscellaneous

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	98-7906	1	Label, Unit ID				10kW
	98-8190	1	Label, Packaged (Includes Parts Marked +)	98-7924-02	2		Label, Model Ident (10000)
	98-6476	1	+ Label, Ground	98-8192-01	1		Label, Information (Breaker 45 AMP)
	98-7130	1	+ Label, Warning Heat				12kW
	98-7497-01	1	+ Label, Warning Install	98-7924-03	2		Label, Model Ident (12000)
	98-6877	1	+ Label, Coolant Level	98-8192-02	1		Label, Information (Breaker 50 AMP)
	98-7463	1	+ Label, Fuel Attachment				8kW
	98-7498-01	1	+ Label, Label, Warning Voltage	98-7924-06	1		Label, Unit Identification (CMQD 8000)
	98-7128	1	+ Label, Warning Multiple	98-8192-03	1		Label, Information (Breaker 35 Amp , 8kW)
	98-7464	1	+ Label, Coolant, Drain				
	98-7498-02	1	+ Label, Warning Voltage				
	98-8191	1	Label, Information (Control)				
	98-7916	1	Label, Emissions Kubota				
	98-8333	1	Label, Emissions (Kubota)				
	98-8385	1	Label, Information (Control)				

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
098-6476, 51		104-2037, 9		130-4321, 30		150-2842, 13	
098-6877, 51		104-2038, 9		130-4322-01, 30		150-2847, 13	
098-7128, 51		104-2039, 8		130-4450-02, 30		150-2848, 25	
098-7130, 51		104-2040, 8		130-4748, 29		152-0373, 23	
098-7463, 51		104-2041, 9		130-6171, 30		154-2800, 37	
098-7464, 51		104-2042, 9		130-6246, 30		154-3033, 37	
098-7497-01, 51		104-2043, 9		130-6247, 30		154-3180, 27	
098-7498-01, 51		104-2044, 9		130-6248, 30		154-3181, 36	
098-7498-02, 51		105-0740, 25		130-6249, 39		154-3188, 27	
098-7906, 51		105-0741, 25		130-6250, 39		154-3189, 36	
098-7916, 51		105-0742, 10		130-6329, 32		155-4411, 37	
098-7924-02, 51		110-3948, 12		130-6330, 32		184-0023, 6	
098-7924-03, 51		110-3949, 11		130-6331, 32		185-2093, 11, 19	
098-7924-06, 51		110-3951, 6		130-6332, 32		185-2094, 6	
098-8190, 51		110-3952, 7		130-6333, 32		185-2105, 14	
098-8191, 51		110-3953, 11		130-6334, 32		185-2106, 23, 32, 36	
098-8192-01, 51		110-3954, 7		130-6347, 31		185-2153, 14	
098-8192-02, 51		112-0298, 9		132-0444, 31		185-2188, 7	
098-8192-03, 51		112-0299, 9		132-0446, 31		185-2233, 6	
098-8333, 51		115-0509, 12		132-0447, 31		185-2234, 6	
098-8385, 51		120-1354, 10		132-0448, 31		185-2336, 23	
100-3909, 6		120-1355, 17		132-0449, 14		185-2338, 6	
101-0834, 8		122-0476, 20		134-5341-02, 39		185-2350, 6	
101-0835, 8		122-0882, 20		140-3050, 28		185-2352, 17	
101-0836, 8		122-0883, 20		140-3071, 28		185-2384, 11	
101-0837, 23		122-0884, 20		140-3072, 28		185-2385, 22	
102-1516, 21		122-0886, 20		140-3519-01, 28		185-2388, 23	
102-1523, 21		122-0897, 20		147-0882, 25		185-2389, 23, 31	
103-0832, 14		123-2240-03, 30		147-0892, 23		185-2390, 14	
103-0833, 14		123-2253, 19		149-2513, 26		185-2400, 10	
104-2020, 15		123-2254, 19		149-2726-02, 26		185-2402, 27, 32	
104-2022, 15		123-2261, 11		149-2734-02, 39		185-2403, 8	
104-2029, 8		123-2262, 18		149-2790, 26		185-2404, 8, 31	
104-2030, 9		123-2263, 11		150-2798, 25		185-2412, 7	
104-2031, 8		123-2264, 11		150-2800, 25		185-2414, 7	
104-2032, 8		123-2265, 18		150-2805, 13		185-2561, 13	
104-2033, 9		123-2266, 11		150-2836, 13		185-2565, 14, 32	
104-2034, 9		130-1872, 29		150-2837, 25		185-2851, 13	
104-2035, 8		130-2920, 14		150-2838, 25		185-3065, 7	
104-2036, 9		130-4320, 30		150-2839, 25		185-5140, 22	

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
185-5337, 22, 24		185-5402, 24		185-5918, 9		185-6711, 14	
185-5363, 24		185-5403, 24		185-5921, 9		185-6713, 14	
185-5364, 24		185-5404, 24		185-5922, 9		185-6722, 32	
185-5365, 24		185-5405, 24		185-5924, 9, 10		185-6728, 21	
185-5366, 24		185-5406, 24		185-5925, 9		185-6749, 12	
185-5367, 24		185-5445, 36		185-5927, 9		185-6759, 13, 14	
185-5368, 24		185-5495, 21		185-5928, 9		185-6762, 7	
185-5369, 24		185-5608, 22		185-5929, 9		185-6771, 9	
185-5370, 24		185-5612, 22		185-5930, 9		185-6772, 25	
185-5371, 24		185-5613, 22		185-5931, 9		185-6773, 25	
185-5372, 24		185-5615, 22		185-5947, 25		185-6785, 36	
185-5373, 24		185-5616, 24		185-5949, 25		185-6825, 24	
185-5374, 24		185-5617, 24		185-5962, 25		185-6848, 36, 37	
185-5375, 24		185-5618, 24		185-5963, 25		185-6956, 21, 25	
185-5376, 24		185-5619, 24		185-5979, 23		185-6957, 7, 12, 14, 31, 32	
185-5377, 24		185-5621, 24		185-5982, 22		185-6961, 14	
185-5378, 24		185-5837, 6		185-5985, 24		185-6987, 23	
185-5379, 24		185-5840, 6		185-5990, 22		185-6988, 23	
185-5380, 24		185-5841, 6		185-5998, 11, 27		185-6989, 23	
185-5381, 24		185-5842, 6		185-6016, 12		185-6991, 23	
185-5382, 24		185-5843, 6, 14		185-6017, 12		185-6996, 23	
185-5383, 24		185-5844, 6		185-6018, 12		185-7006, 22, 24	
185-5384, 24		185-5848, 17		185-6019, 12		185-7008, 22, 24	
185-5385, 24		185-5851, 17		185-6022, 12		185-7031, 17	
185-5386, 24		185-5861, 7		185-6025, 12		185-7069, 17	
185-5387, 24		185-5862, 7		185-6026, 12		185-7116, 7, 31, 32	
185-5388, 24		185-5863, 7		185-6028, 12		185-7120, 14	
185-5389, 24		185-5865, 7		185-6029, 12		185-7134, 23	
185-5390, 24		185-5874, 14		185-6030, 12		185-7221, 12	
185-5391, 24		185-5877, 14		185-6039, 6		185-7298, 32	
185-5392, 24		185-5878, 14		185-6040, 6		190-0753, 34	
185-5393, 24		185-5879, 14		185-6046, 21		190-0754, 34	
185-5394, 24		185-5885, 22		185-6048, 7		190-0759, 34	
185-5395, 24		185-5899, 8		185-6072, 10		191-2229, 15, 16	
185-5396, 24		185-5900, 10		185-6076, 9		191-2239, 16	
185-5397, 24		185-5901, 10		185-6093, 22		191-2240, 16	
185-5398, 24		185-5905, 10		185-6107, 12		191-2241, 16	
185-5399, 24		185-5906, 10		185-6108, 12		191-2245, 16	
185-5400, 24		185-5915, 9		185-6121, 6		191-2246, 16	
185-5401, 24		185-5917, 9		185-6481, 14			

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
191-2247, 16		300-4947, 50		327-1501, 44		405-8489, 29	
191-2250, 16		300-4951-03, 48		332-1356, 46		405-8491, 29	
191-2251, 16		300-4952-03, 49		332-1554, 46		405-8499, 29	
191-2252, 16		300-4953-03, 47		332-2921, 19		405-8500, 29	
191-2253, 16		300-5961, 44		332-3408, 46		405-8720, 40	
191-2254, 16		302-1641, 49		332-3531-03, 46		405-9148, 29	
191-2255, 16		302-2002, 41, 48		333-0707, 13		405-9149, 29	
191-2377, 34		302-2084, 14		337-0090, 38		405-9150, 29	
191-2378, 34		307-1886, 45		337-3739, 22		405-9540-02, 29	
191-2379, 35		308-1019, 45		338-3475, 48		405-9578, 29	
191-2380-02, 35		308-1038, 41		338-3490-01, 50		405-9821, 40	
192-0451, 34		308-1062, 47, 48, 49		338-3490-02, 50		405-9822, 40	
192-0452, 34		315-1651, 28		338-3509, 49		406-1071, 10	
193-0318, 32		319-2340-01, 47		338-3512, 47		501-0848, 20	
201-3549-03, 43		319-2340-02, 48		338-3573, 50		501-0883, 22	
201-3549-04, 43		319-3132-03, 49		338-4384, 46		501-0884, 22	
201-3558-03, 43		319-5199-03, 44		338-4461, 45		501-0885, 22	
205-0220, 43		319-5200-03, 44		338-4498, 46		501-0886, 22	
205-0320-02, 29		320-1951-01, 41		338-4856, 45		501-0920, 26	
211-0447-01, 43		320-1984-06, 41		402-0680-03, 39		501-0933, 26	
211-0485-01, 43		320-1984-08, 41		403-5356-02, 39		502-0313, 26	
212-1276-03, 43		320-1984-09, 41		403-5359-02, 39		502-0804, 20	
212-1285-S0, 43		323-1199, 47, 48, 49		403-5450-02, 29		502-1296-02, 26	
212-1286-S0, 43		323-1200, 50		403-5451-02, 20		502-1299, 26	
212-1308-02, 40		323-1291, 47, 48, 49		403-5519-02, 39		502-1367-05, 32	
214-0103, 43		323-1325, 50		403-5520-02, 39		502-1505, 20	
220-4649-01, 43		323-1542, 45		403-6072-02, 39		502-1506, 20	
220-4649-02, 43		323-1544, 45		405-5380-05, 41		502-1529, 30	
220-4649-03, 43		323-1591, 45		405-5508, 19		503-0365, 28	
220-4649-04, 43		323-1614-01, 45		405-5895-01, 40		503-0465, 28	
220-4649-07, 43		323-1615, 45		405-7773, 43		503-1137, 30	
231-0347, 43		323-1707, 50		405-7774, 43		503-1138, 30	
232-3296, 43		323-1708, 45, 50		405-7808, 44		503-1148, 28	
232-3755-02, 43		323-1710, 50		405-8238-02, 29		503-1951-09, 26, 30	
232-3915, 43		323-1711, 45		405-8248, 40		503-1951-12, 26, 30	
232-4145, 43		323-1712, 50		405-8252, 40		503-1951-13, 26	
234-1020, 43		323-1719, 45, 50		405-8284, 39		503-1951-35, 30	
300-4942, 47		323-1773, 45		405-8285, 29		503-1952-06, 26	
300-4943, 48		323-1819-01, 45		405-8294, 40		503-1959, 30	
300-4944, 49		323-2166, 45		405-8352-02, 40		503-2052, 26	

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
503-2059, 30		510-0215, 31		526-2100, 35, 43		815-0888, 28	
503-2078, 26		511-0214, 34		526-2120, 34, 38, 39, 46		815-0910, 47, 48, 49	
503-2435, 28		511-0218, 34, 35		526-2140, 38		815-0943-02, 44	
503-2436, 28		512-0199, 34		541-1168, 9		815-0954-02, 20	
503-2446, 28		512-0268, 35		541-1169, 9		815-0954-03, 15, 35, 37	
503-2497, 28		512-0276, 34		740-1006, 29		815-0954-05, 34	
503-2500, 30		512-0279, 34		740-1008, 15		821-2032, 39	
503-2501, 30		512-0283-02, 34		800-0052, 34		821-2033, 34	
503-2551, 11		512-0287-01, 34		800-0309-89, 43		821-2061, 38	
503-2552, 32		512-0287-02, 34		800-2006, 43		821-2067, 35	
503-2553, 32		512-0294, 35		800-2056, 43		821-2096-02, 26, 29, 30, 39, 40, 41, 44	
503-2554, 30		512-0302, 35		800-2057, 37		821-2096-03, 29, 39, 40, 46	
503-2555, 30		512-0316, 34		800-2058, 19		821-2096-06, 43	
505-0139, 20		515-0320, 9		800-2060, 34		821-2097-06, 28	
505-0180, 30		516-0247, 15		800-2066, 29		823-1002-01, 40	
505-2251, 23		517-0138-09, 39		800-2069, 35		850-0030, 49	
505-2252, 32		517-0273, 26		800-2072, 34		850-2005, 43	
505-2256, 14		517-0370, 14		800-2087, 43		850-2008, 34, 35, 37	
505-2258, 23		517-0371, 18		800-2089, 43		850-2010, 43	
506-0028, 13		517-0372, 6		800-2515, 43		854-0028, 26	
507-0006, 9		517-0373, 6		800-3030, 19, 39, 46		856-0010, 38, 46	
507-0007, 10		518-0712, 25		800-3031, 19, 38		856-0013, 38	
507-0008, 10		518-0713, 25		800-3032, 15		860-2005, 45	
508-0071, 39		518-0732, 9		800-3033, 20, 37, 39		860-2069, 36	
508-1049-04, 43		520-1000-03, 43		800-6305, 13		862-0003, 43	
508-1105, 45		520-1000-04, 43		800-6306, 13		862-0015, 46	
508-1216, 10		520-2654, 36		800-6327, 12		868-0007, 26	
509-0196, 43		520-2655, 31		800-6328, 32		870-0257, 26	
509-0329, 30		524-0118, 43		800-6329, 8		870-0506, 28	
509-0410, 14		526-0003, 45		800-6330, 11		870-2054, 29, 46	
509-0411, 21		526-0014, 39		800-6331, 32		870-2055, 20, 37	
509-0412, 14		526-0029, 43		800-6332, 32		870-2056, 38, 39	
509-0413, 14		526-0049, 49		800-6333, 23		870-2065-02, 35	
509-0414, 11		526-0054, 46		800-6334, 13		870-2065-03, 37	
509-0415, 14		526-0399-56, 43		800-6335, 12		871-0010, 49	
509-0416, 8		526-0399-64, 15, 20, 37, 39		800-6340, 21		871-0025, 46	
509-0417, 6		526-0409, 49		812-0070, 46			
509-0419, 31		526-0461, 34		815-0549, 41			
509-0420, 43		526-2080, 43		815-0600, 15			
510-0214, 25				815-0861, 39			



Cummins Power Generation
1400 73rd Avenue N.E.
Minneapolis, MN 55432
1-800-888-6626
763-574-5000 International Use
Fax: 763-528-7229



Cummins and Onan are registered trademarks of Cummins Inc.

**Power
Generation**

Redistribution or publication of this document
by any means, is strictly prohibited.