



Parts Manual

Cummins **Onan**

Performance you rely on.™



Marine Generator Set

MDKBG

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!



Servicing and replacement of MARINE CRITICAL PARTS must be carried out by persons trained and experienced with marine gasoline engine-generator safety requirements!

Introduction

This catalog applies to the standard marine generator sets listed below. Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Unless otherwise mentioned in the description or page heading, parts are interchangeable between models. Throughout this catalog left and right sides are determined by facing the engine end (front) of the set.

<u>MODEL</u>	<u>HERTZ</u>
7MDKBG/*	50Hz
9MDKBG/*	60Hz

* – The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letter. The specification number denotes customer requested options or deviations from the standard model. The specification letter advances (A to B, B to C, etc.) with major manufacturing changes.



Index

Actuator, Governor, **40**
Adapter, Metric NPT, **36**
Adapter, Oil Drain, **47**
Adapter, Pipe, **36**
Alternator (12V), **30 , 31**
Alternator (24V), **32**
Arm, Rocker, **24 , 25**
Armature, Starter (12V), **13**
Armature, Starter (24V), **14**
Assy, Thermostat, **30**

Ball, Crankshaft, **9**
Ball, Pressure Valve, **28**
Base, Fuel Filter Aluminum, **36**
Base, Mounting, **54**
Bearing, Alternator (24V), **33**
Bearing, Connecting Rod, **11**
Bearing, Crankshaft, **9**
Bearing, Fuel Camshaft, **16**
Bearing, Generator Rotor Ball, **60**
Bearing, Governor Weight, **16**
Bearing, Raw Water Pump, **44**
Bearing, Starter Ball (24V), **14**
Bearing, Starter Oilless (12V), **13**
Bearing, Water Pump, **29**
Belt Guard, **55**
Belt, Fan (12V), **31**
Belt, Fan (24V), **32**
Block, Cylinder, **8**
Body, Raw Water Pump, **44**
Box, Control, **59**
Box, Control , **59**
Bracket, Belt Guard Bottom, **55**
Bracket, Belt Guard Side, **55**
Bracket, Belt Guard Top, **55**
Bracket, Fuel Pump, **36**
Bracket, Heat Exchanger, **41**
Bracket, Isolated Ground, **53**
Bracket, Lifting, **21**
Bracket, Oil Drain, **47**
Bracket, Remote Separator Mounting, **38**
Bracket, Resistor (24V, **36**

Bracket, Rocker Arm, **24 , 25**
Breaker, Circuit (15 Amp), **63**
Breaker, Circuit (50 Amp), **63**
Brush, Alternator (24V), **33**
Brush, Starter Yoke (24V), **14**
Bulkhead, Fuel Connection, **36**
Bumper, Control, **57**
Bush, Governor Gear, **8**
Bushing, Connecting Rod, **11**
Bushing, Exhaust Manifold Reducer, **51**
Bushing, Idle Gear, **10**
Bushing, Reducer, **36**

Cam, Fuel, **16**
Camshaft, **10**
Camshaft, Fuel, **16**
Cap, Coolant Tank , **46**
Cap, Cylinder Block Sealing, **8**
Cap, Cylinder Head Sealing, **21**
Cap, Exhaust Manifold, **51**
Cap, Oil Drain Hose Pipe, **47**
Cap, Valve, **24 , 25**
Case, Main Bearing, **15**
Circlip, Governor Shaft, **16**
Circlip, Idle Gear, **10**
Circlip, Piston Pin, **11**
Circlip, Rocker Arm External, **24**
Clamp, Coolant System Hose, **43**
Clamp, Hose, **30**
Clamp, Injection Pipe, **22**
Clip, Hose, **36**
Clutch, Starter (12V), **13**
Clutch, Starter (24V), **14**
Cock Assy, Cylinder Block Drain, **8**
Collar, Crankshaft, **9**
Collar, Governor Shaft, **16**
Collar, Idle Gear, **10**
Collar, Injector Pump Hole Eye Joint, **19**
Collar, Starter (12V), **13**
Collet, Valve Spring, **24 , 25**
Components, Alternator (24V), **33**
Components, Captive Water Pump, **29**

Index

- Components, Gauge Panel, **62**
- Components, Injection Pump, **20**
- Components, Nozzle Holder, **23**
- Components, Raw Water Pump, **44**
- Components, Remote Water Separator, **39**
- Components, Starter (12V), **13**
- Components, Starter (24V), **14**
- Connector Barbed Hose (1/4–18 x 3/8”), **36**
- Connector Barbed Hose (1/4–18 x 5/16”), **36**
- Connector, Female Bulkhead, **36**
- Connector, Fuel System Male, **36**
- Connector, Inverted Male, **36**
- Cord, Glow Plug, **22**
- Cover, Alternator Bearing (24V), **33**
- Cover, Bearing Case, **15**
- Cover, Control Box, **59**
- Cover, Control PCB, **61**
- Cover, Cylinder Head, **26 , 27**
- Cover, Endbell, **60**
- Cover, Flywheel Housing, **12**
- Cover, Gearcase Oil Fill, **28**
- Cover, Head Cover Oil Fill, **26**
- Cover, Heat Exchanger End, **41**
- Cover, Injector Pump Hole, **19**
- Cover, Oil Filter Hole, **28**
- Cover, Oil Pump, **28**
- Cover, Thermostat, **30**
- Crankshaft, **9**

- Disk, Generator Rotor Drive, **60**
- Drain Assy, Water Separator, **39**

- Edging, Heat Exchanger Bracket, **41**
- Elbow, Exhaust, **51**
- Elbow, Inverted Male, **36**
- Elbow, Male, **36**
- Elbow, Oil System, **47**
- Elbow, Pipe, **36**
- Elbow, Street, **38**
- Element, Breather, **26**
- Element, Fuel Filter, **36**
- Element, Remote Water Separator, **39**

- Endbell, **60**
- Engine Assy, Replacement, **8**
- Exchanger, Heat, **41**

- Fan, Generator, **60**
- Filter, Cruise Kit Fuel, **72**
- Filter, Cruise Kit Oil, **72**
- Filter, Fuel Pump, **36**
- Filter, Oil, **28**
- Fitting, Oil Filter Connector, **28**
- Flange, Injection Pump Sleeve, **20**
- Flange, Water, **30**
- Flange, Water Pump, **29**
- Flywheel, **12**

- Gasket, **72**
- Gasket (Exhaust Out), **51**
- Gasket, Bearing Case, **15**
- Gasket, Bearing Case Cover, **15**
- Gasket, Cap Nut, **26**
- Gasket, Coolant System Raw Water Pump, **43**
- Gasket, Cylinder Block Plug, **8**
- Gasket, Cylinder Head, **21**
- Gasket, Cylinder Head Cover, **26 , 27**
- Gasket, Delivery Valve, **20**
- Gasket, Gearcase, **28**
- Gasket, Heat Exchanger End Cover, **41**
- Gasket, Injector Pump Hole Cover, **19**
- Gasket, Injection Pump, **20**
- Gasket, Injector Pump Hole Eye Joint, **19**
- Gasket, Intake Manifold, **49**
- Gasket, Nozzle Holder, **22**
- Gasket, Oil Drain, **47**
- Gasket, Oil Pan, **48**
- Gasket, Oil Pan Plug, **48**
- Gasket, Overflow Pipe, **22**
- Gasket, Solenoid Cover, **40**
- Gasket, Speed Control Plate, **17 , 18**
- Gasket, Thermostat, **30**
- Gasket, Water Pump, **29**
- Gasket, Water, Flange, **30**
- Gauge, Remote Switch and Oil Pressure, **69**

Index

- Gauge, Remote Switch and Water Temperature, **69**
Gear, Cam, **10**
Gear, Crankshaft, **9**
Gear, Governor, **16**
Gear, Idle, **10**
Gear, Injection Pump, **16**
Gear, Oil Pump Drive, **9**
Gear, Ring, **12**
Gear, Starter (12V), **13**
Gear, Starter Pinion (24V), **14**
Gearcase, **28**
Generator, **60**
Grommet, Control Box Mounting Rubber, **57**
Grommet, Stator Housing, **60**
Ground, Isolation, **53**
Grounding, **52**
Guard, Belt, **55**
Guard, Starter, **12**
Guide, Control Box Card, **59**
Guide, Valve, **21**
- Hanger, Coolant Tank, **46**
Harness, Control , **65**
Harness, Deluxe Remote Panel, **68**
Harness, Gauge Panel, **62**
Harness, Ground, **53**
Harness, Isolated Ground, **53**
Harness, Junction, **71**
Harness, Pigtail (12"), **71**
Harness, Remote Control Panel, **66**
Harness, Remote Extension, **71**
Harness, Remote Switch and Gauge Panel, **69**
Harness, Remote Switch Panel, **67**
Harnesses, Wiring, **70**
Head Assy, Water Separator Replacement, **39**
Head, Cylinder, **21**
Heat Exchanger, **41**
Holder Assy, Brush (24V), **14**
Holder Assy, Starter (12V), **13**
Holder, Alternator Brush (24V), **33**
Holder, Delivery Valve, **20**
Holder, Governor Gear, **16**
Holder, Governor Shaft, **17**
Holder, Nozzle, **22**
Holder, Nozzle Components, **23**
Hose, Air Intake, **49**
Hose, Breather, **26**
Hose, Coolant System, **43**
Hose, Coolant Tank, **46**
Hose, Exhaust Manifold Coolant, **51**
Hose, Oil Drain, **47**
Housing, Flywheel, **12**
Housing, Raw Water Pump, **44**
- Impeller, Captive Water Pump, **29**
Impeller, Raw Water Pump, **44**
Indicator, Oil Level, **8**
Isolator, Control Box Mounting Vibration, **57**
Isolator, Vibration, **54**
- Joint, Breather Pipe, **26**
Joint, Injector Pump Hole Eye, **19**
- Key, Camshaft Feather, **10**
Key, Crankshaft, **9**
Key, Fuel Camshaft Woodruff, **16**
Key, Raw Water Pump, **44**
Kit Isolated, Ground, **53**
Kit, Adapter Fuel, 3/8", **36**
Kit, Adapter Fuel, 5/16", **36**
Kit, Adapter Metric, **36**
Kit, Belt Guard, **55**
Kit, Coolant Recovery, **46**
Kit, Cruise, **72**
Kit, Dry Exhaust, **51**
Kit, Gauge Panel, **62**
Kit, Heat Exchanger Cap, **41**
Kit, Impeller, **72**
Kit, Low Coolant Sender, **51**
Kit, Major Water Service, **44**
Kit, Minor Water Service, **44**
Kit, Muffler, Fuel/Water Separator, **37**
Kit, Muffler, Marine, **37**
Kit, O-Ring, Water Separator, **39**

Index

- Kit, Remote Control Panel, **66**
- Kit, Remote Fuel/Water Separator, **38**
- Kit, Remote Panel, **68**
- Kit, Remote Switch and Gauge Panel, **69**
- Kit, Remote Switch Panel, **67**
- Kit, Remote Water Separator Metal Bowl Replacement, **39**
- Kit, Siphon Break, **45**
- Kit, Water Separator, **37**
- Kits, **72**

- Label, Control , **63**
- Label, Instruction, **66**
- Labels, **72**
- Line, Flex Fuel, **38**
- Line, Fuel (.25"), **36**
- Line, Fuel (28.5"), **36**
- Line, Fuel (38.5"), **36**

- Manifold, Exhaust, **51**
- Manifold, Intake, **49**
- Meter, Hour, **63**
- Meter, Remote Switch and Running Time, **69**
- Meter, Remote Switch and Volt (M14), **69**
- Meter, Remote Switch Panel Hour, **67**
- Meter, Volt (M4), **68**
- Mixer, **51**
- Mount, Engine, **54**
- Mounting, Control Box , **57**
- Mounting, Printed Circuit Board, **61**
- Muffler, **37**

- O'Ring, Gearcase, **28**
- O'Ring, Gearcase Oil Fill Cover, **28**
- O'Ring, Head Cover Oil Fill Cover, **26**
- O'Ring, Heat Exchanger Cover, **41**
- O'Ring, Hole Cover, **28**
- O'Ring, Injection Pump, **20**
- O'Ring, Oil Filter Cover, **28**
- O'Ring, Oil Pickup Tube, **48**
- O'Ring, Oil Pump Drive Gear, **9**
- O'Ring, Raw Water Pump, **44**

- O'Ring, Speed Control Plate, **17**
- Oil System, **47**

- Package, Hardware, **46**
- Pan, Oil, **48**
- Panel, Remote Switch and Gauge, **69**
- Panel, Control, **63**
- Panel, Control Box Engine, **59**
- Panel, Control(Gnd), **63**
- Panel, Remote Control, **66 , 66 , 68**
- Panel, Remote Printed, **68**
- Panel, Remote Switch, **67**
- Panel, Remote Switch and Gauge, **69**
- Panel, Remote Switch Panel Printed, **67**
- PCB Assy, Control, **61**
- Pencil, Zinc, **41**
- Piece, Distance, **23**
- Piece, Nozzle, **23**
- Pin, Cylinder Block Pipe, **8**
- Pin, Cylinder Block Start Spring, **8**
- Pin, Cylinder Block Straight, **8**
- Pin, Injection Pump Clamp, **20**
- Pin, Injection Pump Joint, **20**
- Pin, Piston, **11**
- Pin, Tappet Guide, **20**
- Pipe, Injection, **22**
- Pipe, Overflow, **22**
- Pipe, Water Return, **29 , 30**
- Piston, **11**
- Plate, Breather Element, **26**
- Plate, Injection Pump, **20**
- Plate, Raw Water Pump Cover, **44**
- Plate, Raw Water Pump Wear, **44**
- Plate, Speed Control, **17 , 18**
- Plug, Cylinder Block, **8**
- Plug, Cylinder Head, **21**
- Plug, Exhaust Manifold, **51**
- Plug, Fuel Filter Drain, **36**
- Plug, Gearcase, **28**
- Plug, Glow, **22**
- Plug, Hex Pipe, **38**

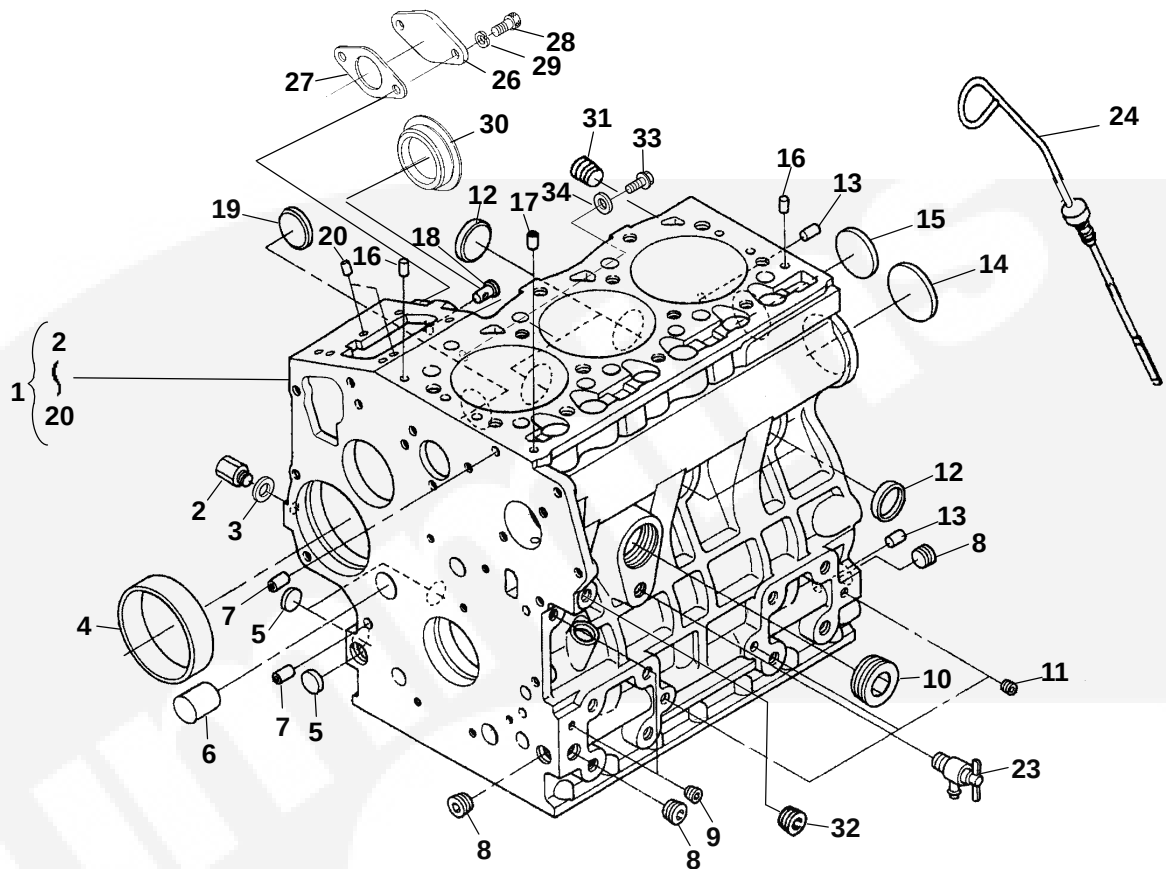
Index

Plug, Injection Pump, **20**
Plug, Oil Pan, **48**
Plug, Vent, **39**
Plunger, Pump, **20**
Pulley, Fan (12V), **31**
Pulley, Fan (24V), **32**
Pulley, Fan Drive (12V), **31**
Pulley, Fan Drive (24V), **32**
Pump Assy, Water Separator, **39**
Pump, Coolant System Raw Water, **43**
Pump, Fuel, **35 , 36**
Pump, Injection, **19 , 20**
Pump, Water, **29**
Rack, Injection Pump Control, **20**
Rectifier, Alternator (24V), **33**
Reducer, Bushing, **47**
Reducer, Hose Connector, **43**
Regulator, Alternator (24V), **33**
Relay, Control Box , **59**
Relay, Isolated Ground Solenoid, **53**
Resistor (24V), **36**
Resistor, Remote Switch and Gauge Panel (12v Only), **69**
Resistor, Remote Switch and Gauge Panel (24v Only), **69**
Resonator, **49**
Resonator Intake, **49**
Retainer, Spring, **25**
Retainer, Starter (24V), **14**
Retainer, Valve Spring, **24**
Ring, Raw Water Pump Retaining, **44**
Ring, Starter Snap (12V), **13**
Rod, Camshaft Push, **10**
Rod, Connecting, **11**
Rod, Nozzle Holder Push, **23**
Roller, Starter (24V), **14**
Rotor, Alternator (24V), **33**
Rotor, Generator, **60**
Rotor, Generator Exciter, **60**
Rotor, Oil Pump, **28**
Saddle, Control, **57**
Seal, Bearing Case Oil, **15**
Seal, Endbell O'Ring, **60**
Seal, Gearcase Oil, **28**
Seal, Heat, **22**
Seal, Raw Water Pump Lip, **44**
Seal, Raw Water Pump Mechanical, **44**
Seal, Valve Stem, **24 , 25**
Seal, Water Pump Mechanical, **29**
Seat, Injection Pump Spring, **20**
Seat, Pressure Valve, **28**
Seat, Raw Water Pump Seal, **44**
Sender, Low Coolant, **51**
Sender, Oil Pressure, **47**
Sender, Water Temperature, **30**
Separator, Remote Fuel/Water, **38**
Separator, Remote Fuel/Water Separator, **38**
Separator, Remote Water, **39**
Separator, Water, **37**
Set, Piston Ring, **11**
Shaft, Governor, **16 , 17**
Shaft, Governor Weight, **16**
Shaft, Idle Gear, **10**
Shaft, Raw Water Pump, **44**
Shaft, Rocker Arm, **24 , 25**
Shaft, Stop Lever, **17 , 18**
Shield, Breather Oil, **26**
Shim, Injection Pump, **19 , 20**
Sleeve, Air Intake, **49**
Sleeve, Crankshaft, **9**
Sleeve, Governor, **16**
Sleeve, Injection Pump Control, **20**
Spacer, Raw Water Pump, **44**
Spring, Alternator Brush (24V), **33**
Spring, Brush (24V), **14**
Spring, Delivery Valve, **20**
Spring, Injection Pump Plunger, **20**
Spring, Nozzle, **23**
Spring, Pressure, **28**
Spring, Rocker Arm, **24 , 25**
Spring, Speed Control Plate Return, **17 , 18**
Spring, Valve, **24 , 25**
Starter (Mounting), **12**

Index

Stator, Exciter, **60**
Stator, Generator, **60**
Stay, Alternator (12V), **31**
Stay, Alternator (24V), **32**
Stopper, Camshaft, **10**
Stopper, Fuel Camshaft, **16**
Strainer, Water Pickup, **37**
Strap, Control Box Bond, **59**
Strap, Grounding Bond, **52**
Strap, Heat Exchanger Mounting, **41**
Switch, Coolant System Pressure, **43**
Switch, Remote Control Panel Rocker (S11), **66**
Switch, Remote Gauge and Rocker (SPDT) (S11), **69**
Switch, Remote Switch Panel Rocker (S11), **67**
Switch, Rocker (S11), **68**
Switch, Rocker, SPDT, **63**
Switch, Starter Magnetic (12V), **13**
Switch, Starter Magnetic (24V), **14**
Switch, Temperature, **51**
Switch, Water Temperature, **30**
System, Cooling, **43**
Tank, Coolant Recovery, **46**
Tappet, Camshaft, **10**
Tappet, Injection Pump, **20**
Tube, Coolant System Low Pressure Switch, **43**
Tube, Oil Pickup, **48**
Valve, **24 , 25**
Valve, Delivery, **20**
Valve, Vacuum Relief, **45**
Water Separator/Muffler, **37**
Wedge, Gauge Panel Plug, **62**
Weight, Governor, **16**

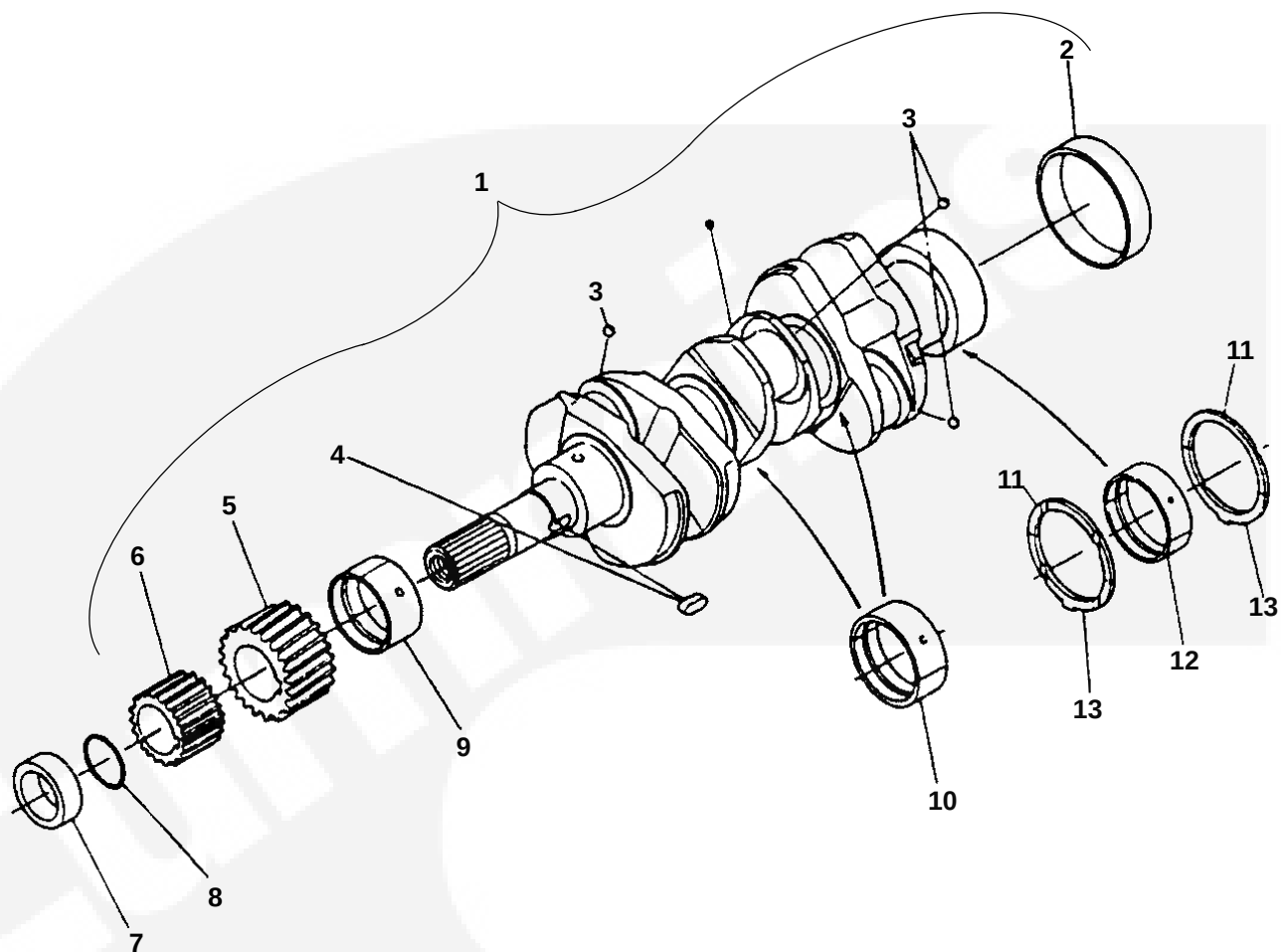
Cylinder Block



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Engine Assy, Replacement Spec A	17	185-6469	1	*Pin, Pipe
	100-3616-01	1	12V	18	185-6857	1	*Pin, Start Spring
	100-3616-02	1	24V	19	185-7212	1	*Plug
			Engine Assy, Replacement Begin Spec C	20	185-5486	2	*Pin, Straight
	100-3944-01	1	12V	21	185-6889	1	Cap, Seal (Spec A)
	100-3944-02	1	24V	22	185-2095	1	O'Ring (Spec A)
1			Block, Cylinder (Includes Parts Marked *)	23	185-5490	1	Cock Assy, Drain
	185-7372	1	Spec A	24	185-6866	1	Indicator, Oil Lever
	185-7417	1	Begin Spec C	25	185-2367	1	Nut (Spec A)
2	185-5845	1	*Plug	26			Cover, Solenoid
3	185-2338	1	*Gasket		185-6578	1	Spec A
4	185-6472	1	*Bush, Governor Gear		333-0719	1	Begin Spec C
5	185-6121	3	*Plug, Expansion	27			Gasket
6	185-6471	1	*Plug		185-6579	1	Spec A
7	185-2115	2	*Pin, Pipe		333-0718	1	Begin Spec C
8	185-6468	3	*Plug	28			Bolt, Hex Socket Head
9	185-2233	2	*Plug		185-2403	2	Spec A
10	185-6856	1	*Plug		802-2544	2	Begin Spec C
11	185-2188	3	*Plug	29	185-2380	2	Washer, Spring Spec C
12	185-5484	4	*Cap, Sealing	30	185-7223	1	Cover, Hydraulic Pump Spec C
13	185-5487	2	*Pin, Straight	31	185-6039	1	Plug
14	185-6040	1	*Plug, Expansion	32	185-5502	1	Plug
15	185-2412	1	*Cap, Sealing	33	185-2572	1	Bolt, Flange
16			*Pin, Straight	34	185-2284	1	Gasket
	185-5843	2	Spec A				
	185-7420	2	Begin Spec C				

* - Parts Included in Cylinder Block.

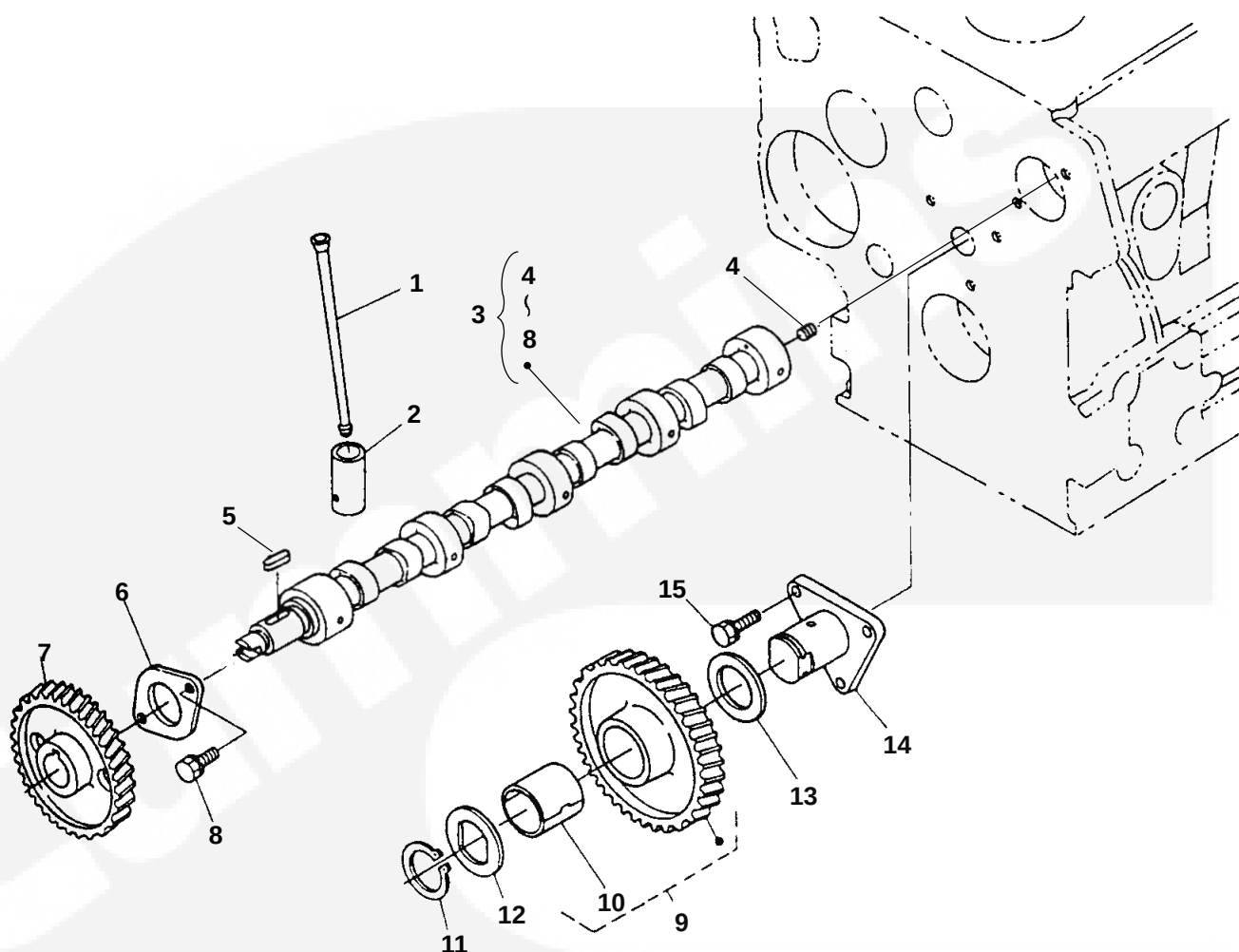
Crankshaft



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7376	1	Crankshaft (Includes Parts Marked *)	11	185-5938	2	Washer, Thrust Standard
2	185-6543	1	*Sleeve, Crankshaft		185-6555	2	.2mm, Oversize
3	185-5924	3	*Ball		185-6556	2	.4mm, Oversize
4	185-6541	1	*Key	12	185-6552	1	Bearing, Crankshaft Standard
5	185-6540	1	*Gear, Crankshaft		185-6553	1	.2mm, Undersize
6	185-6542	1	*Gear, Oil Pump Drive		185-6554	1	.4mm, Undersize
7	185-6544	1	Collar, Crankshaft	13	185-5941	2	Washer, Thrust Standard
8	185-6545	1	O'Ring Spec A		185-5942	2	.2mm, Oversize
	185-7429	1	.Begin Spec C		185-5943	2	.4mm, Oversize
9			Bearing, Crankshaft				
	185-6546	1	Standard				
	185-6547	1	.2mm, Undersize				
	185-6548	1	.4mm, Undersize				
10			Bearing, Crankshaft				
	185-6549	2	Standard				
	185-6550	2	.2mm, Undersize				
	185-6551	2	.4mm, Undersize				

* - Parts Included in Crankshaft.

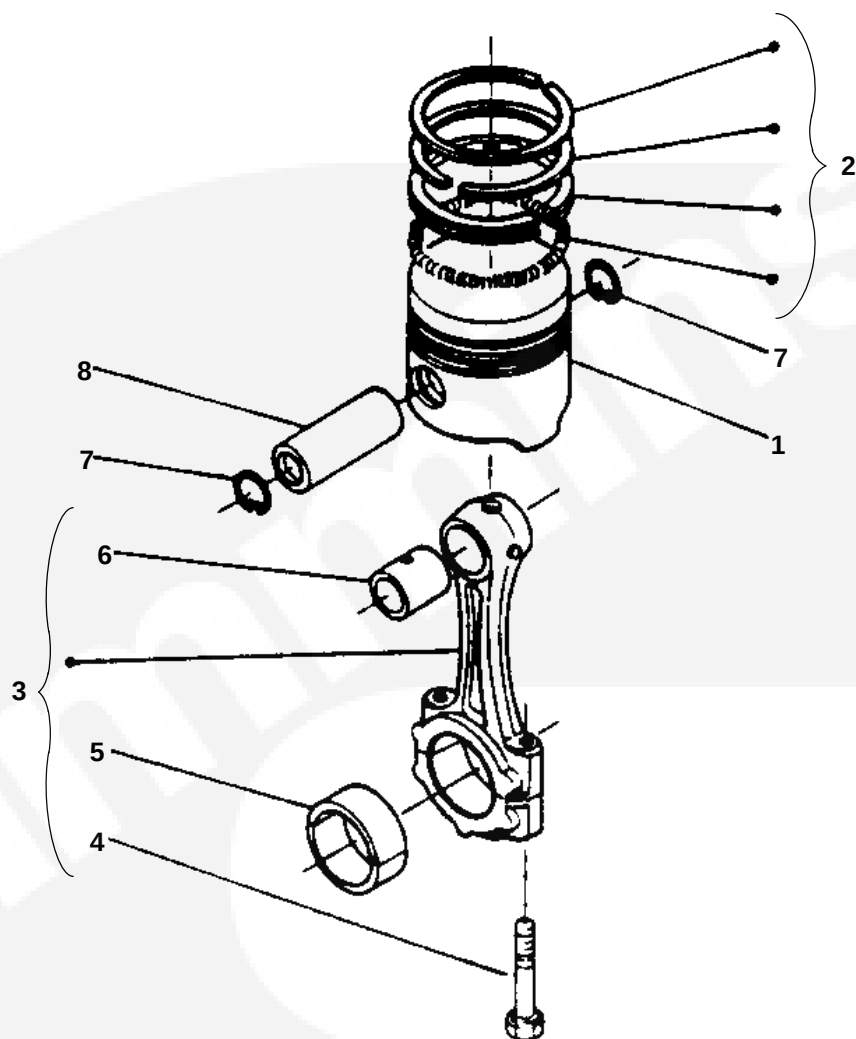
Camshaft



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6517	6	Rod, Push	9	185-6521	1	Gear Assy, Idle (Includes Bushing)
2	185-6516	6	Tappet	10	185-6522	1	Bushing, Idle Gear
3			Camshaft Assy (Includes Parts Marked *)	11	185-6525	1	Circlip, Idle Gear
	185-6873	1	Spec A	12	185-6524	1	Collar, Idle Gear
	105-0744	1	Begin Spec C	13	185-6523	1	Collar, Idle Gear
4	185-5558	1	*Screw, Set	14	185-6526	1	Shaft, Idle Gear
5	185-5560	1	*Key, Feather	15	185-2388	3	Bolt
6	185-6520	1	*Stopper, Camshaft				
7	185-6519	1	*Gear, Cam				
8			*Bolt				
	185-2387	2	Spec A				
	185-2388	2	Begin Spec C				

* - Parts Included in Camshaft Assy.

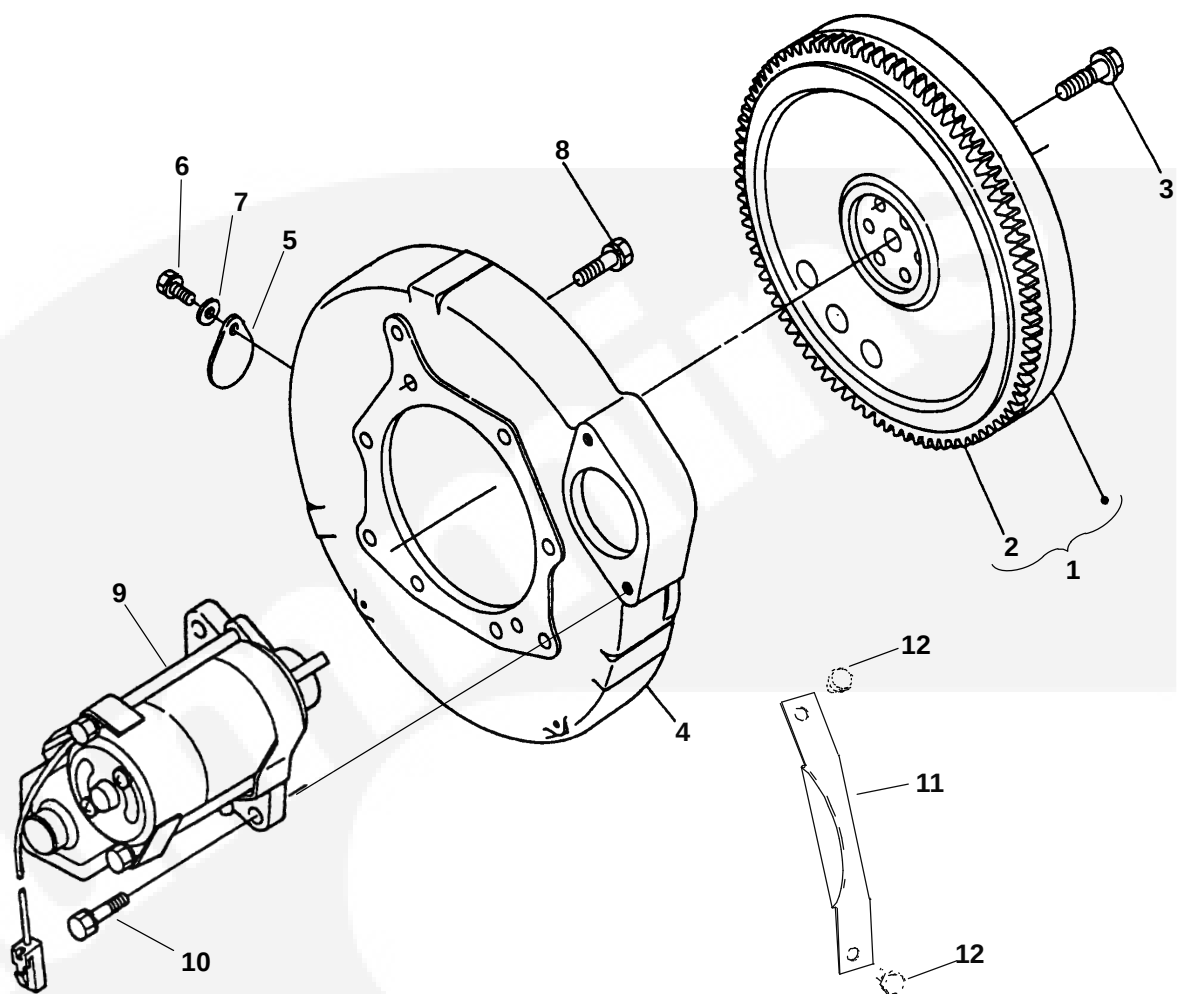
Piston



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Piston
			Spec A
	185-7308	3	Standard
	185-7309	3	.5mm Oversize
			Begin Spec C
	112-0302	3	Standard
	112-0303	3	.5mm Oversize
2			Ring Set, Piston
	185-7310	3	Standard
	185-7311	3	.5mm Oversize
3	185-6533	3	Rod Assy, Connecting (Includes Bolt, Bearing and Bushing)

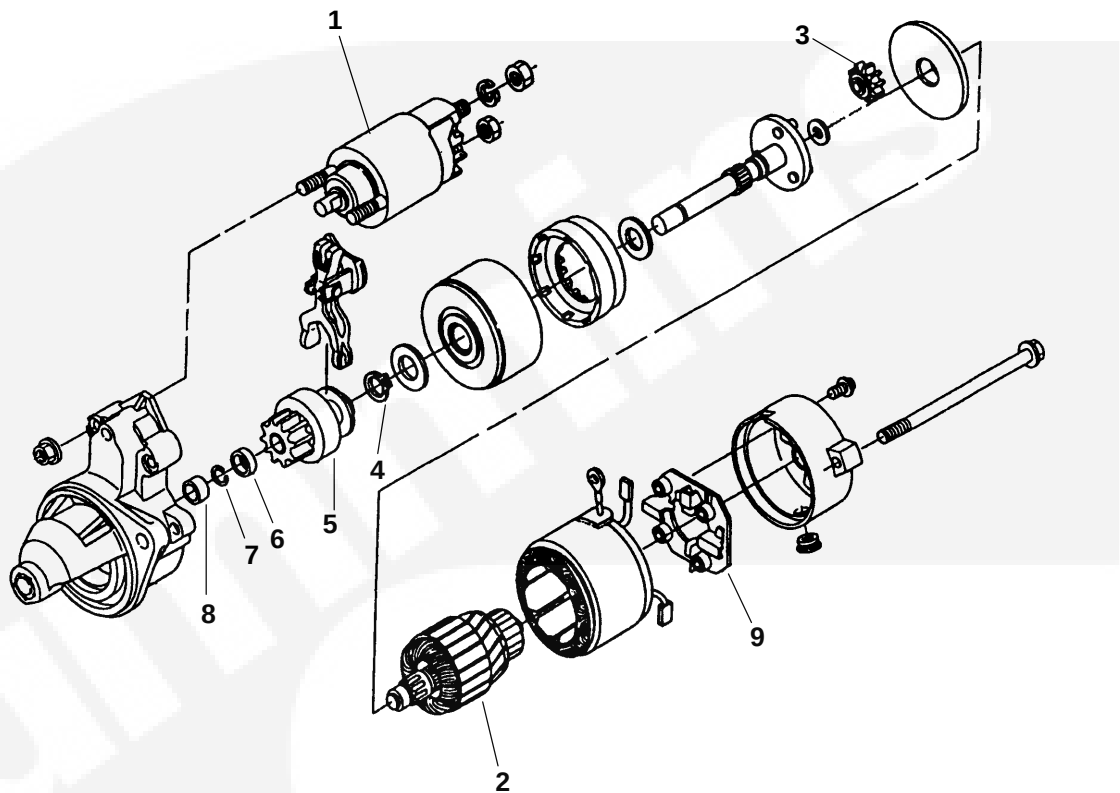
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4			Bolt, Connecting Rod
			Spec A
	185-6535	6	Spec A
	114-0419	6	Begin Spec C
5			Bearing, Connecting Rod
	185-6536	3	Standard
	185-6537	3	.2mm Undersize
	185-6538	3	.4mm Undersize
6			Bushing, Connecting Rod
	185-6534	3	Spec A
	508-1253	3	Begin Spec C
7	185-6532	6	Circlip, Piston Pin
8	185-6531	3	Pin, Piston

Flywheel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7217	1	Flywheel (Includes Ring Gear)	9			Starter (See Separate Page for Components)
2	185-2170	1	Gear, Ring		185-7104	1	12V
3	185-6409	6	Bolt, Flywheel		185-7105	1	24V
4	185-7218	1	Housing, Flywheel	10	185-2564	2	Screw
5	185-7219	1	Cover	11	191-2275-02	1	Guard, Starter
6	185-7222	1	Bolt	12	815-0194	2	Screw, Hex Head (#10-32 x .38")
7	185-7221	1	Washer, Plain				
8	185-2178	8	Bolt				

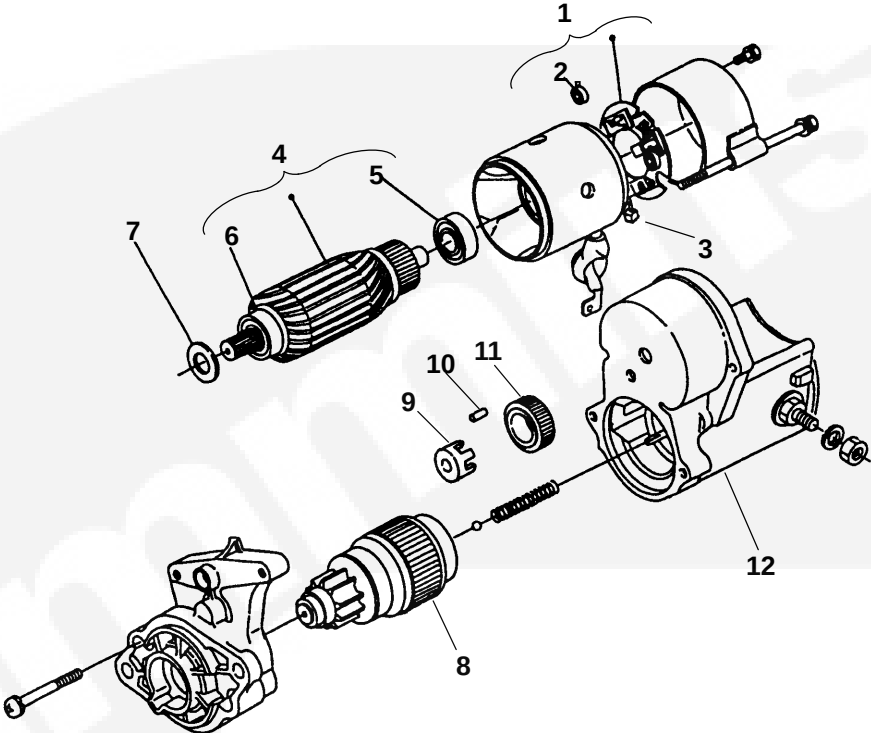
Starter Components
(12V)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185-7104	1	Starter	6	185-7236	1	Collar
1	185-2658	1	Switch, Magnetic	7	185-6386	1	Ring, Snap
2	185-7231	1	Armature	8	185-7233	1	Bearing, Oilless
3	185-7234	3	Gear	9	185-7230	1	Holder, Brush
4	185-7235	1	Ring, Snap				
5	185-7232	1	Clutch, Starter				

Note: Parts not Identified are Not For Sale.

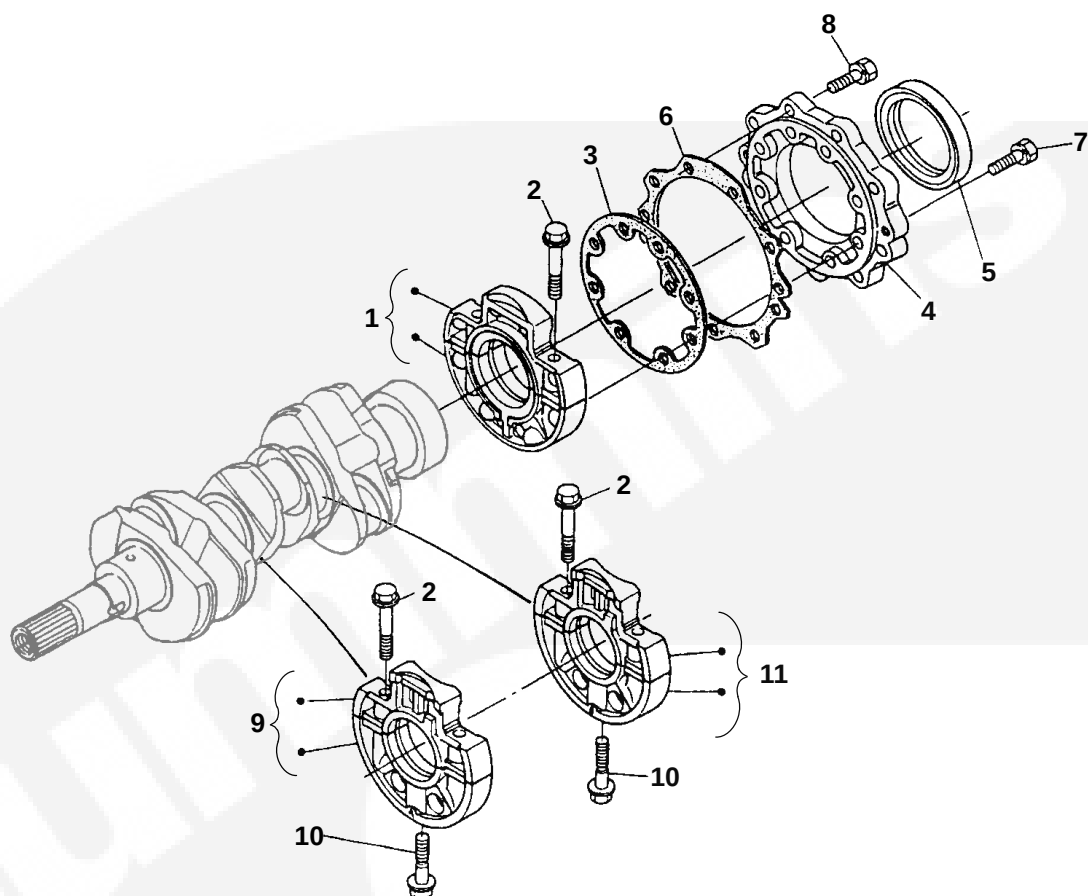
Starter Components
(24V)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185-7105	1	Starter	8	185-6354	1	Clutch
1	185-7240	1	Holder Assy, Brush	9	185-6362	1	Retainer
2	185-6358	4	Spring, Brush	10	191-2252	5	Roller
3	185-7237	2	Brush, Yoke	11	185-7296	1	Gear, Pinion
4	185-7238	1	Armature	12	185-7239	1	Switch, Magnetic
5	185-6442	1	Bearing, Ball				
6	185-6441	1	Bearing, Ball				
7	185-6365	1	Washer, Felt				

Note: Parts Not Identified are Not Sold Separately.

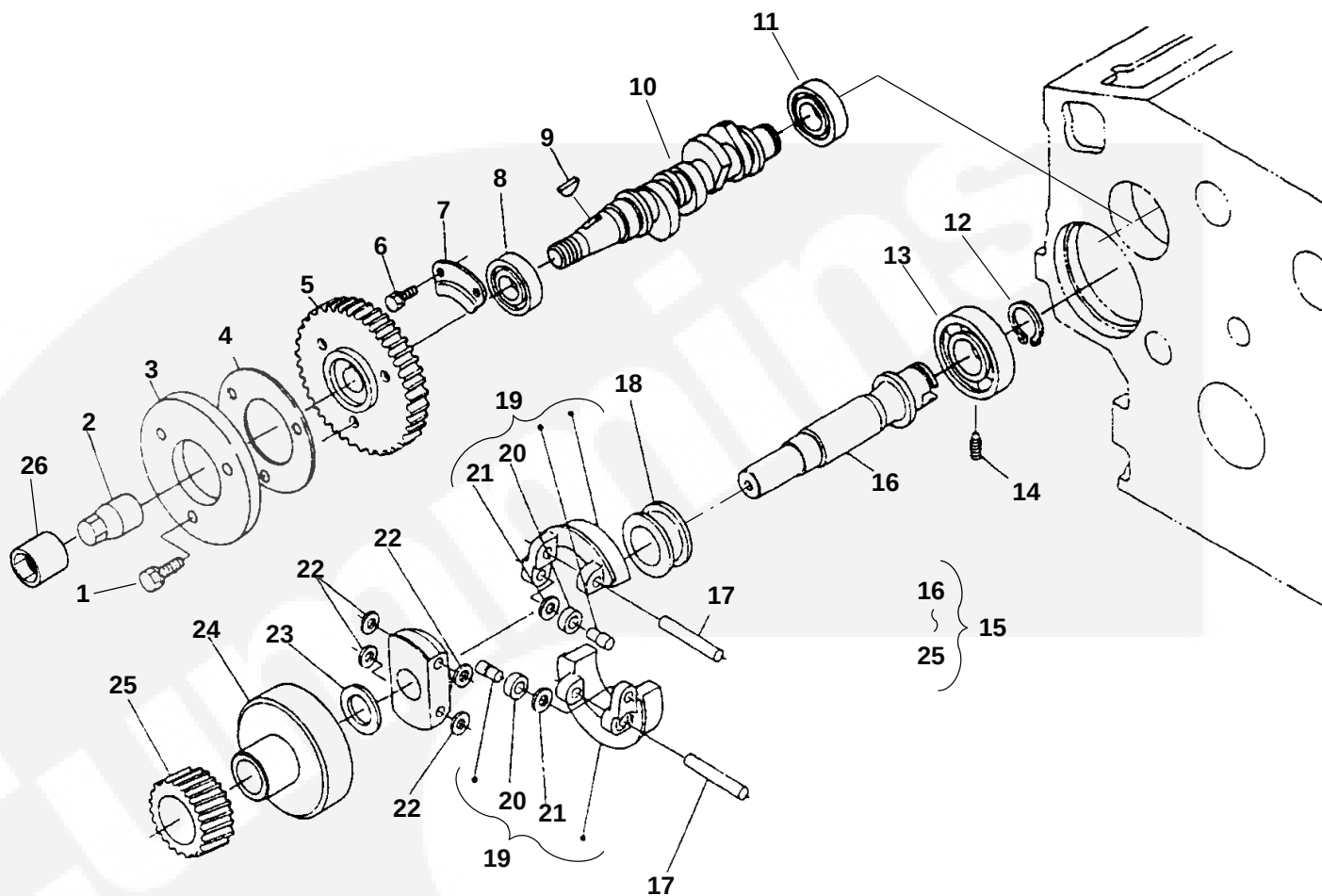
Main Bearing Case



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6506	1	Case Assy, Main Bearing
2	185-6507	6	Bolt, Bearing Case
3	185-6869	1	Gasket, Bearing Case
4	185-6509	1	Cover, Bearing Case
5	185-6510	1	Seal, Oil
6	185-6871	1	Gasket, Bearing Case Cover

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	185-2391	8	Bolt
8	185-2390	9	Bolt
9	185-6512	1	Case Assy, Main Bearing
10	185-6513	2	Bolt, Bearing Case
11	185-7306	1	Case Assy, Main Bearing

Fuel Camshaft

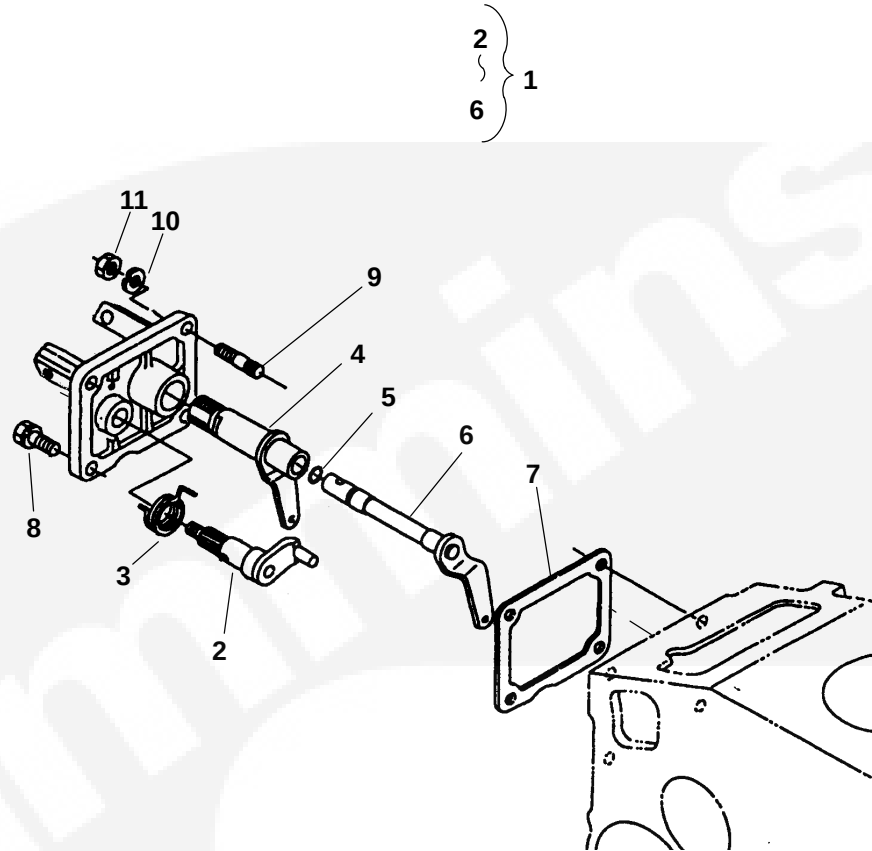


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2389	3	Bolt Spec A only
2	185-6560	1	Nut, Cap A only
3	185-6876	1	Cam, Fuel Spec A only
4	185-6879	1	Washer Spec A only
5			Gear, Injection Pump
	185-6558	1	Spec A
	507-0011	1	Begin Spec C
6			Bolt
	185-2386	2	Spec A
	185-2388	2	Begin Spec C
7	185-6562	1	Stopper, Fuel Camshaft
8			Bearing, Ball
	185-3093	1	Spec A
	510-0224	1	Begin Spec C
9	185-6561	1	Key, Woodruff
10	185-6875	1	Camshaft, Fuel
11			Bearing, Ball
	510-0163	1	Spec A
	510-0223	1	Begin Spec C
12	185-6572	1	Circlip, Governor Shaft
13	185-6571	1	Bearing, Ball

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
14	185-6573	1	Screw, Set
15	185-6877	1	Shaft Assy, Governor (Includes Parts Marked *)
16	185-6878	1	*Shaft, Governor
17	185-6569	2	*Shaft, Governor Weight
18	185-6570	1	*Sleeve, Governor
19	185-6567	2	*Weight, Governor (Includes Bearing and Washer)
20	185-5959	2	Bearing
21	185-5960	2	Washer
22	185-6568	4	*Washer, Governor Weight
23	185-6566	1	*Collar, Governor Shaft
24	185-6880	1	*Holder, Governor Gear
25	185-6565	1	*Gear, Governor
26	185-6560	1	Nut, Begin Spec C

* - Parts Included in Governor Shaft Assy.

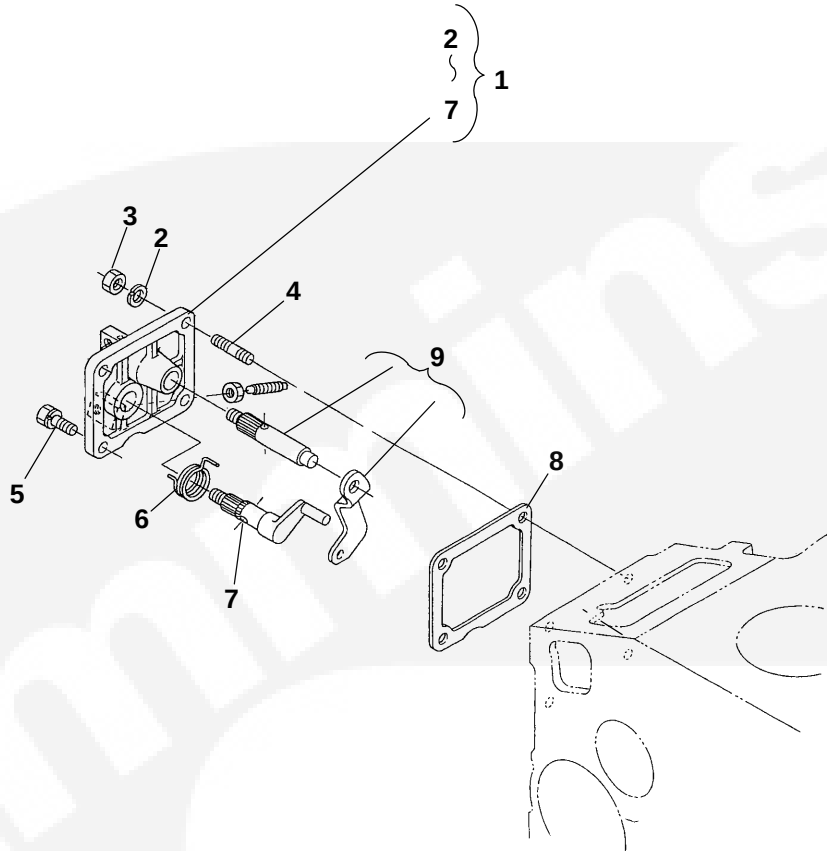
Speed Control Plate Spec A



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7256	1	Plate Assy, Control (Includes Parts Marked *)	7	185-6894	1	Gasket
2	185-6615	1	*Shaft, Stop Lever	8	185-2388	1	Bolt
3	185-6614	1	*Spring, Return	9	185-2359	2	Stud
4	185-7260	1	*Holder, Governor Shaft	10	185-6759	2	Washer, Spring
5	185-2347	1	*O'Ring	11	185-4255	2	Nut
6	185-7259	1	*Shaft, Governor				

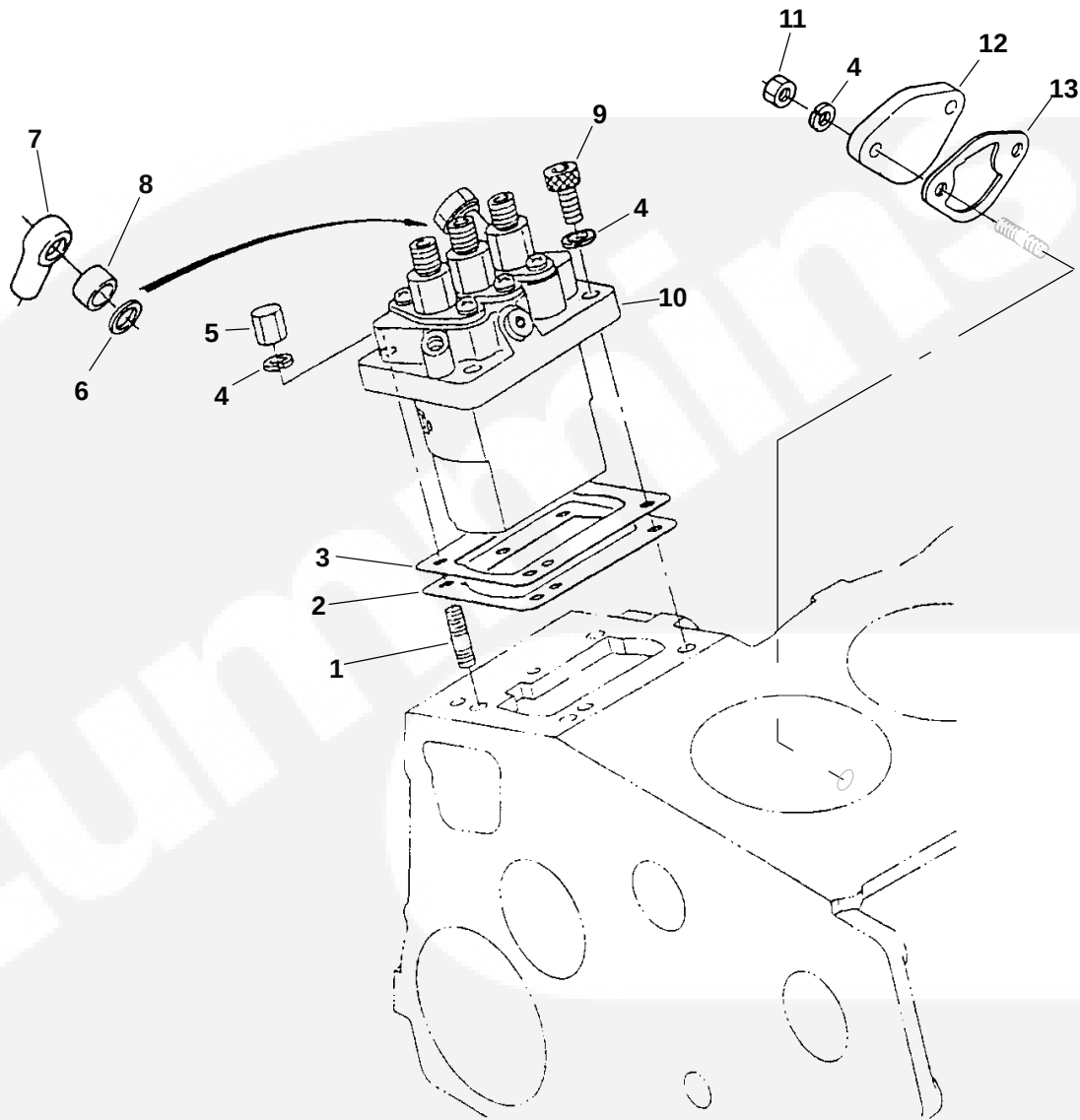
* – Parts Included in Control Plate Assy.

Speed Control Plate Begin Spec C



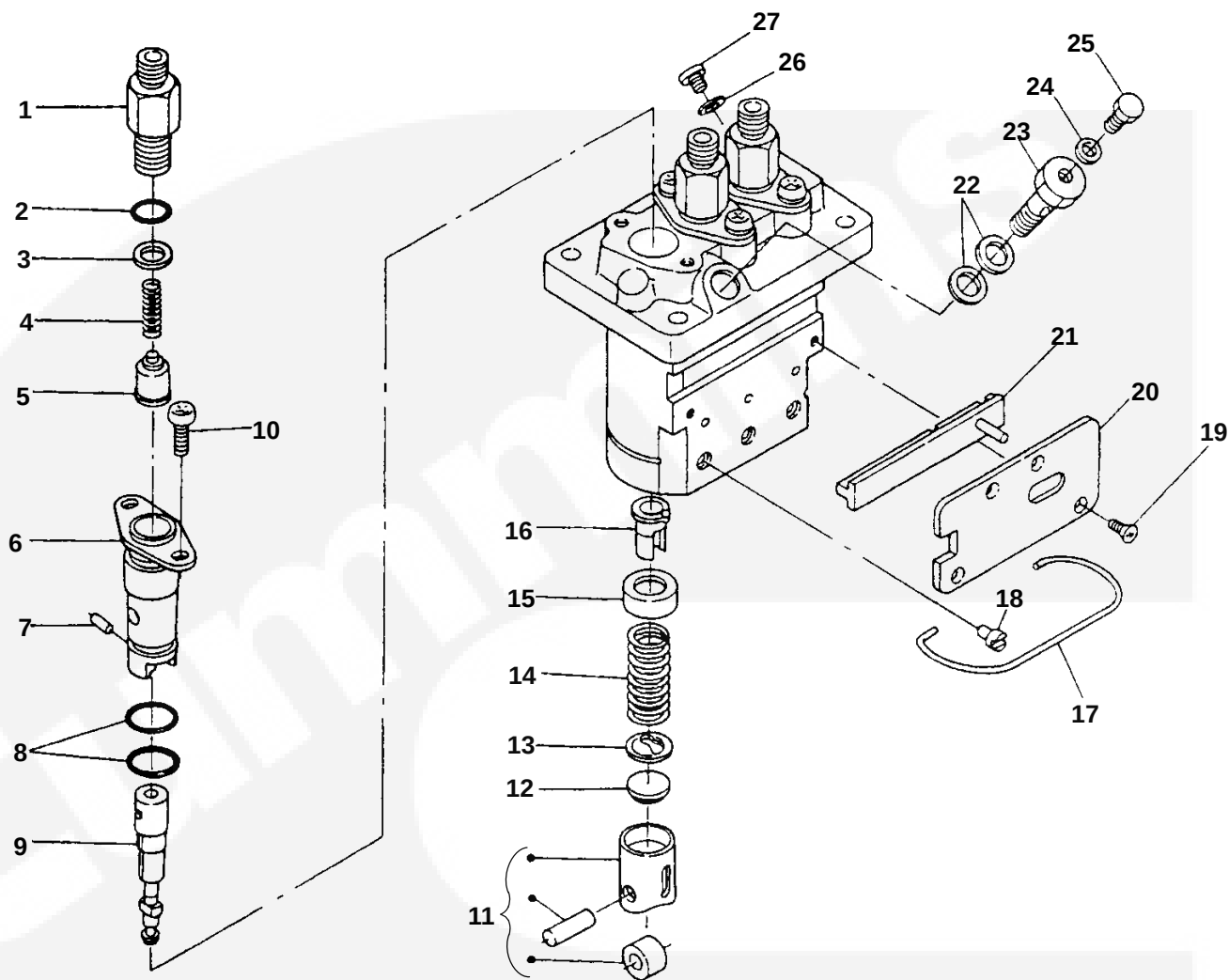
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7256	1	Plate Assy, Control (Includes Parts Marked *)	6	185-6614	1	*Spring, Return
2	185-6759	2	Washer, Spring	7	185-6615	1	*Shaft, Stop Lever
3	185-4255	2	Nut	8	185-6894	1	Gasket
4	185-7425	2	Stud	9	185-6612	1	Comp. Lever, Gov
5	185-2388	1	Bolt				* - Parts Included in Control Plate Assy.

Injection Pump



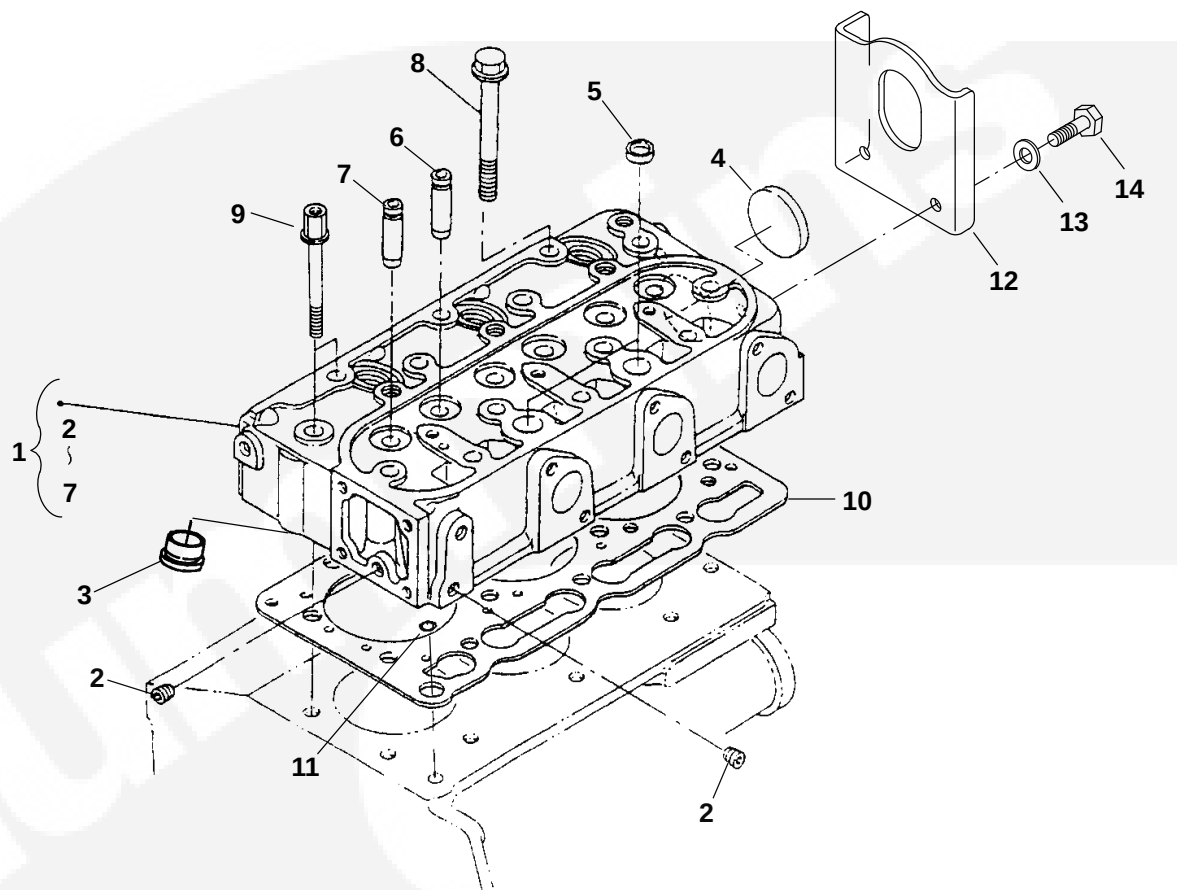
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5624	3	Stud	8	185-6585	1	Collar, Eye Joint
2	185-6845	1	Shim, Injection Pump (.30mm)	9	185-5623	2	Bolt, Hex Socket Head
3			Shim, Injection Pump	10	185-6882	1	Pump Assy, Injection (See Separate Page for Components)
	185-6749	AR	.20mm				
	185-6739	AR	.25mm				
4	185-6759	6	Washer, Spring	11	185-4255	2	Nut
5	185-5625	2	Nut, Cap	12	185-5798	1	Cover
6	185-2578	1	Gasket	13	185-6580	1	Gasket
7	185-6584	1	Joint, Eye				

Injection Pump Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185-6882	1	Pump Assy, Injection	14	185-5652	3	Spring, Plunger
1	185-6588	3	Holder, Delivery Valve	15	185-5653	3	Seat, Spring Upper
2	185-5643	3	O'Ring	16	185-5659	3	Sleeve, Control
3	185-5641	3	Gasket, Delivery Valve	17	185-6707	1	Pin, Clamp
4	185-5640	3	Spring, Delivery Valve	18	185-5650	3	Pin, Tappet Guide
5	185-5639	3	Valve, Delivery	19	185-5658	4	Screw, Countersunk Head
6	185-5644	3	Flange, Sleeve	20	185-6886	1	Plate
7	185-5645	3	Pin, Joint	21	185-6885	1	Rack, Control
8	185-5646	3	O'Ring	22	185-5661	2	Gasket
9	185-6884	3	Plunger, Pump	23	185-6887	1	Bolt, Joint
10	185-5647	6	Screw	24	185-5663	1	Gasket
11	185-5649	3	Tappet	25	185-5662	1	Screw, Air Bleed
12	185-5655	3	Shim	26	185-5820	1	Gasket
13	185-5654	3	Seat, Spring Lower	27	185-6888	1	Plug

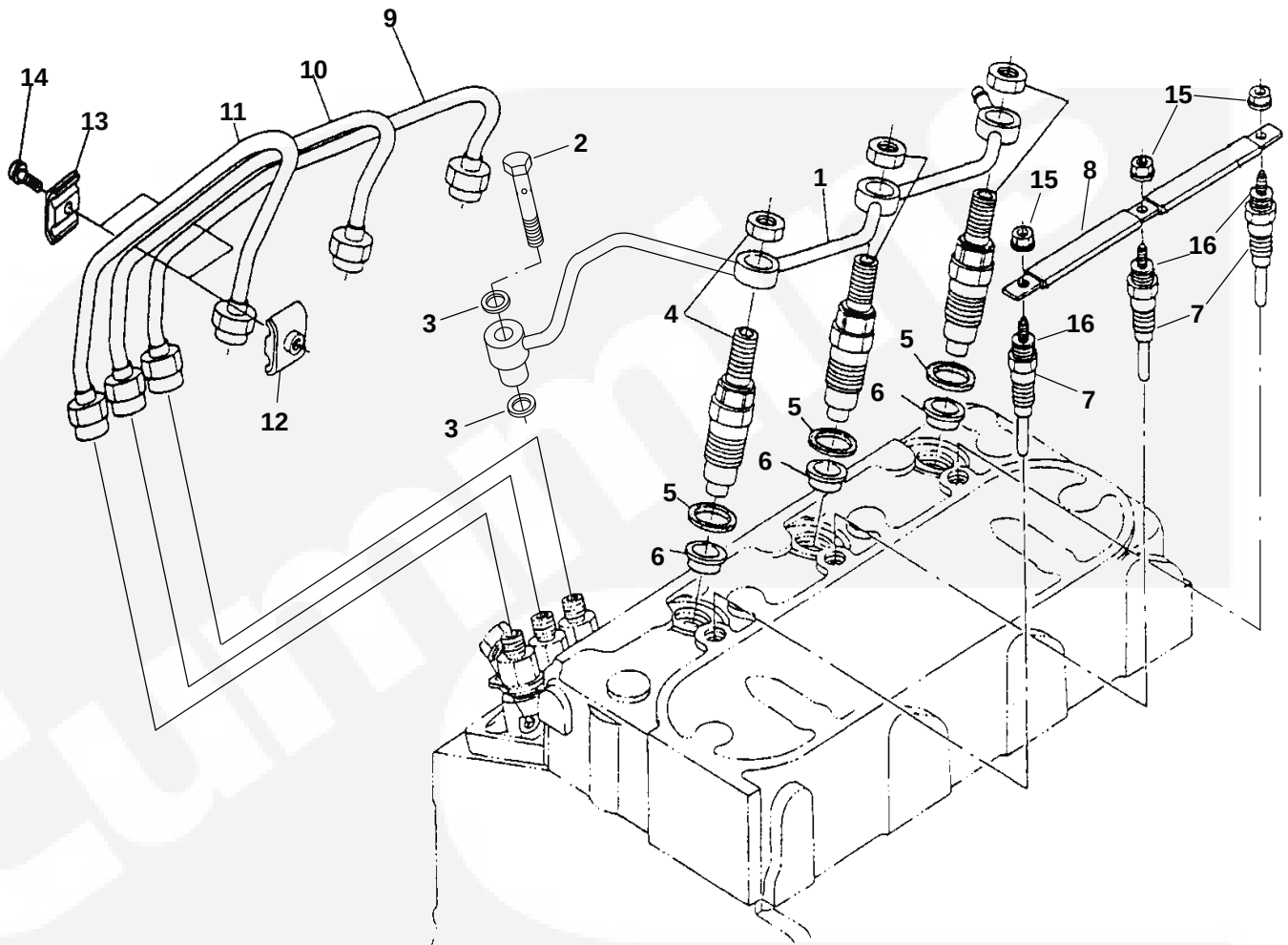
Cylinder Head



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7374	1	Head Assy, Cylinder (Includes Parts Marked *)	8	185-6477	12	Bolt, Cylinder Head
2	185-2188	2	*Plug	9	185-6479	2	Bolt, Cylinder Head
3	185-7375	3	*Camber, Combustion (Spec A)	10	185-7373	1	Gasket, Cylinder Head Spec A
4	185-2411	1	*Cap, Sealing		110-3966	1	Begin Spec C
5	185-2413	2	*Cap, Sealing	11	185-2095	1	O'Ring (Spec A)
6			*Guide, Exhaust Valve	12	403-4284-04	1	Bracket, Lifting
	185-6476	3	Spec A	13	526-0399-60	2	Washer, Flat (M8)
	110-3961	3	Begin Spec C	14	800-3017-18	2	Screw, Hex Head Cap (M8 x 1.25 x 16mm)
7			*Guide, Inlet Valve				
	185-6475	3	Spec A				
	110-3960	3	Begin Spec C				

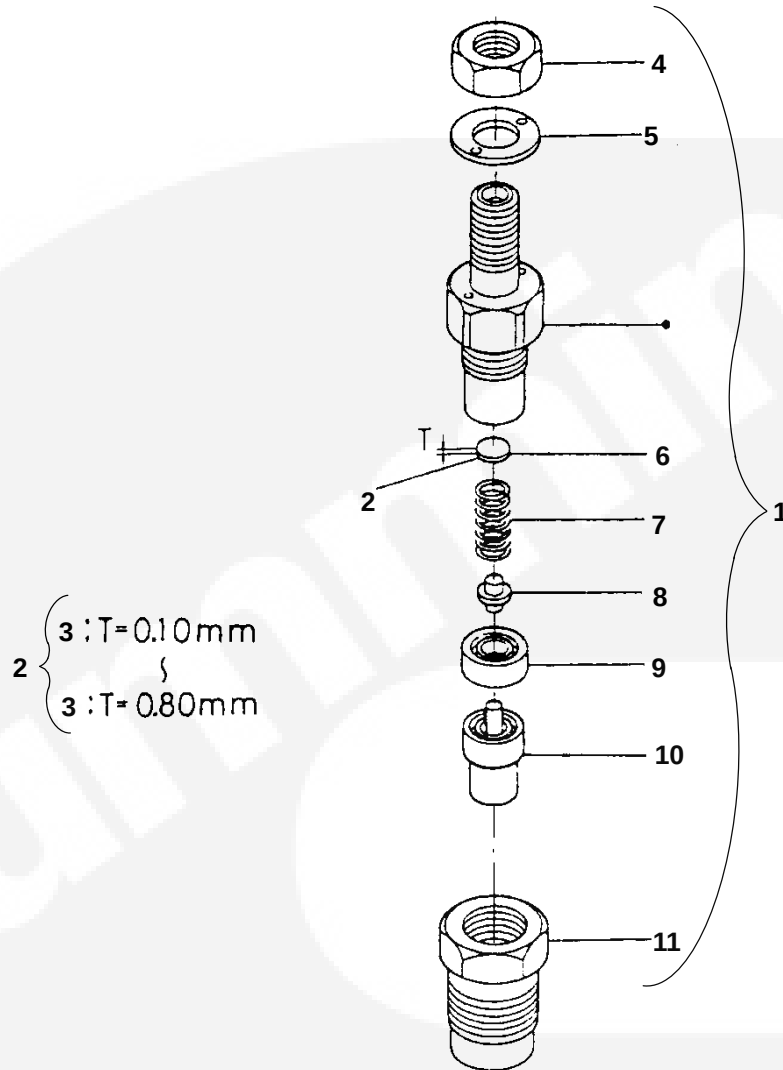
* - Parts Included in Cylinder Head Assy.

Nozzle Holder and Glow Plug



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7106	1	Pipe, Overflow	8	185-6899	1	Cord, Glow Plug
2	185-7082	1	Screw, Air Bleeder	9	185-6621	1	Pipe, Injection
3	185-2284	2	Gasket	10	185-6751	1	Pipe, Injection
4	185-6740	3	Holder Assy, Nozzle (See Separate Page for Components)	11	185-6750	1	Pipe, Injection
5	185-5337	3	Gasket	12	185-5612	2	Clamp, Pipe
6	185-5985	3	Seal, Heat	13	185-2345	2	Clamp, Pipe
7			Plug, Glow	14	185-2385	2	Screw, Washer Head
	185-5421	3	12V	15	185-5615	3	Nut, Flange
	185-7107	3	24V	16	185-7004	3	Washer, Plain

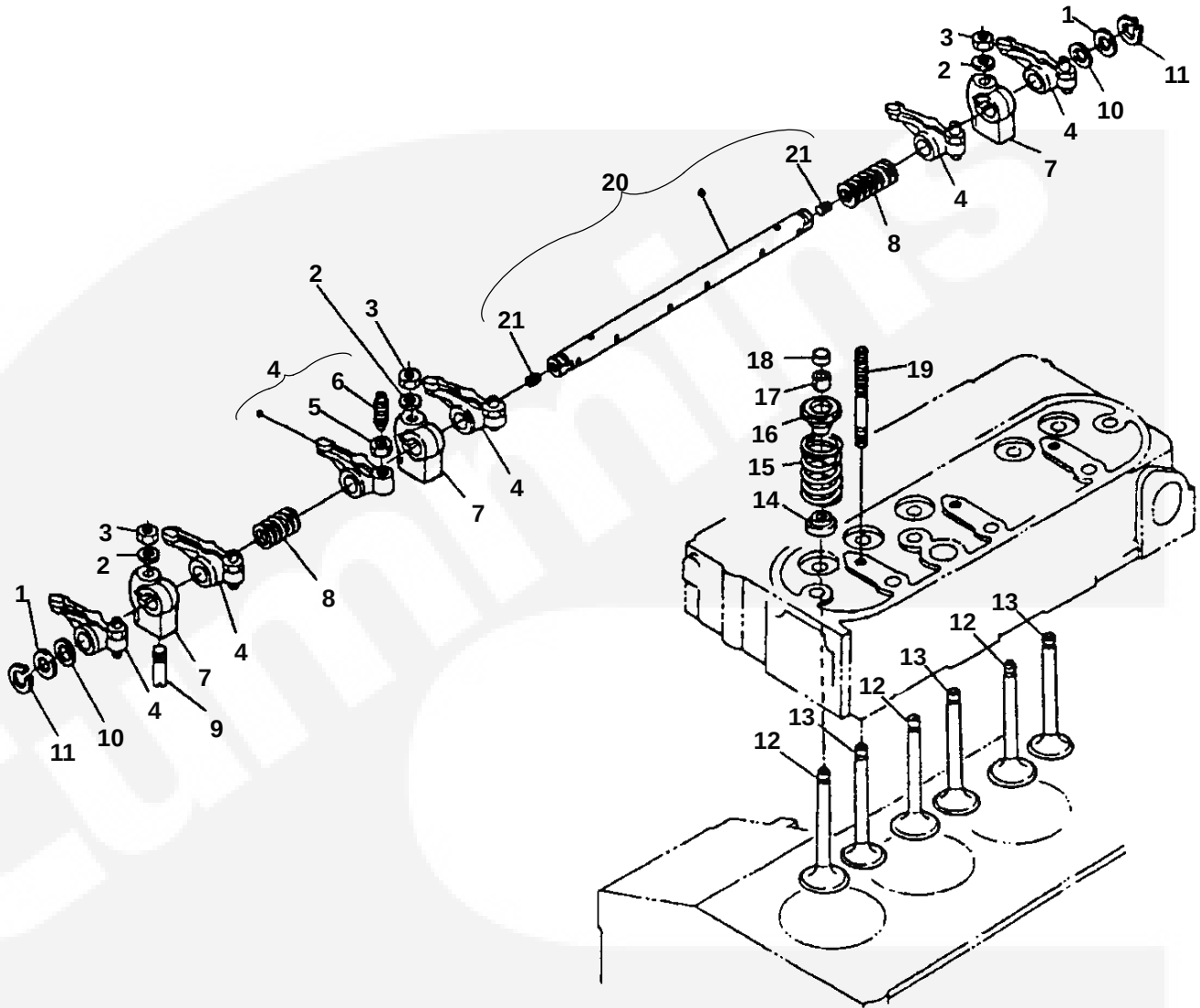
Nozzle Holder Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6740	3	Holder Assy, Nozzle (Includes Parts Marked *)	4	185-6900	3	*Nut
2	185-6908	3	*Washer Assy, Adjust (Includes Adjusting Washers)	5	185-6906	3	*Washer, Plain
3			Washer, Adjusting	6	185-6901	3	*Washer, Adjusting
	185-6909	3	.10mm	7	185-6902	3	*Spring, Nozzle
	185-6910	3	.20mm	8	185-6904	3	*Rod, Push
	185-6911	3	.30mm	9	185-6903	3	*Piece, Distance
	185-6912	3	.40mm	10	185-6907	3	*Piece, Nozzle
	185-6913	3	.50mm	11	185-6905	3	*Nut, Nozzle
	185-6914	3	.52mm				
	185-6915	3	.54mm				
	185-6916	3	.56mm				
	185-6917	3	.58mm				
	185-6918	3	.80mm				

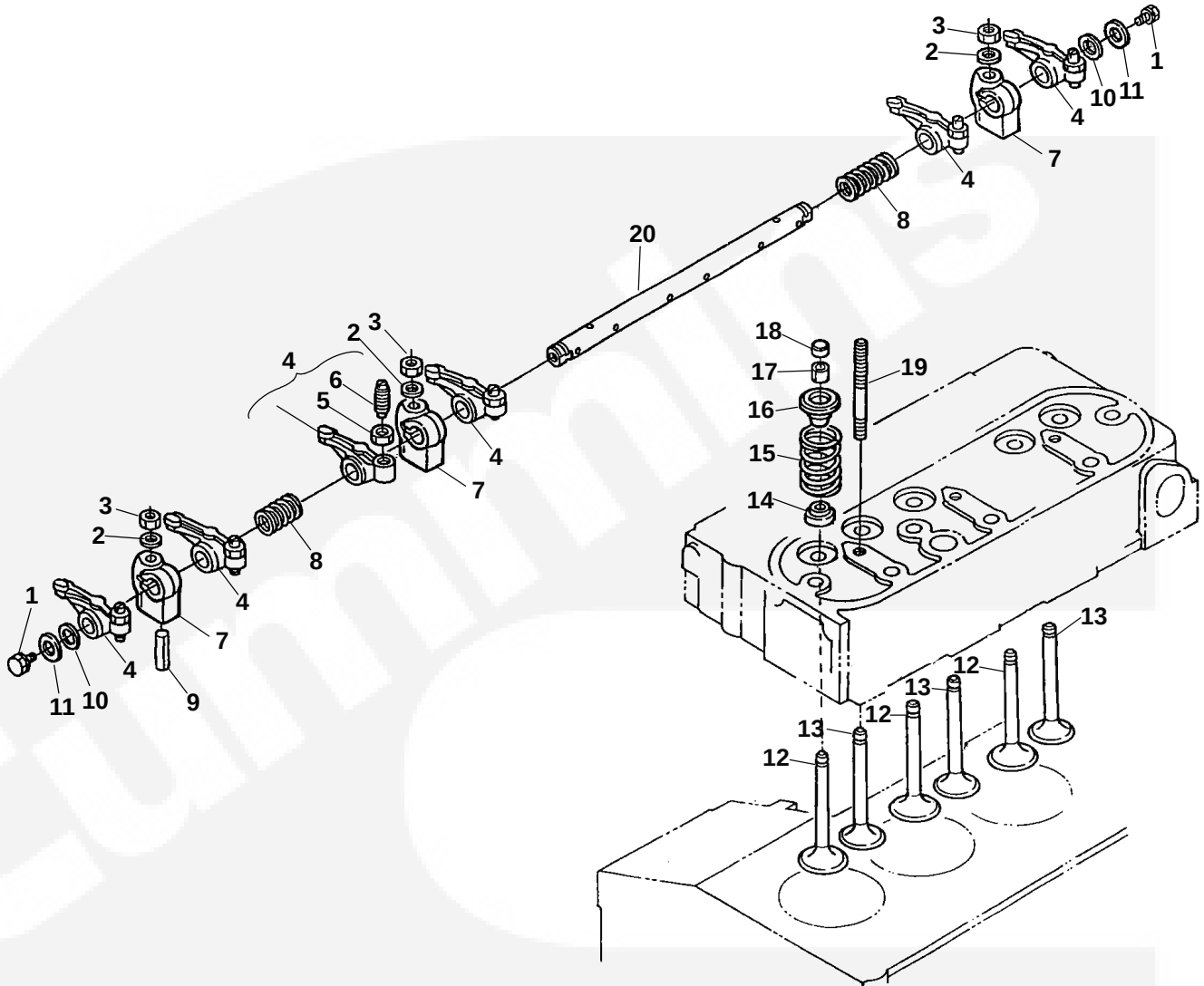
* - Parts Included in Nozzle Holder Assy.

Valve and Rocker Arm Spec A



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6690	2	Washer, Rocker Arm Shaft	12	185-6681	3	Valve, Inlet
2	185-2184	3	Washer, Plain	13	185-6682	3	Valve, Exhaust
3	185-2179	3	Nut	14	185-7300	6	Seal, Valve Stem
4	185-6693	6	Arm Assy, Rocker (Includes Screw and Nut)	15	185-6683	6	Spring, Valve
5	185-6695	6	Nut	16	185-2076	6	Retainer, Valve Spring
6	185-6694	6	Screw, Adjusting	17	110-3827	6	Collet, Valve Spring
7	185-6687	3	Bracket, Rocker Arm	18	185-2080	6	Cap, Valve
8	185-6691	2	Spring, Rocker Arm	19	185-6688	3	Stud
9	185-2072	3	Screw, Rocker Arm Set	20	185-6923	1	Shaft Assy, Rocker Arm (Includes Screws)
10	185-6689	2	Washer, Rocker Arm Shaft	21	185-6686	2	Screw, Set
11	185-6692	2	Circlip, External				

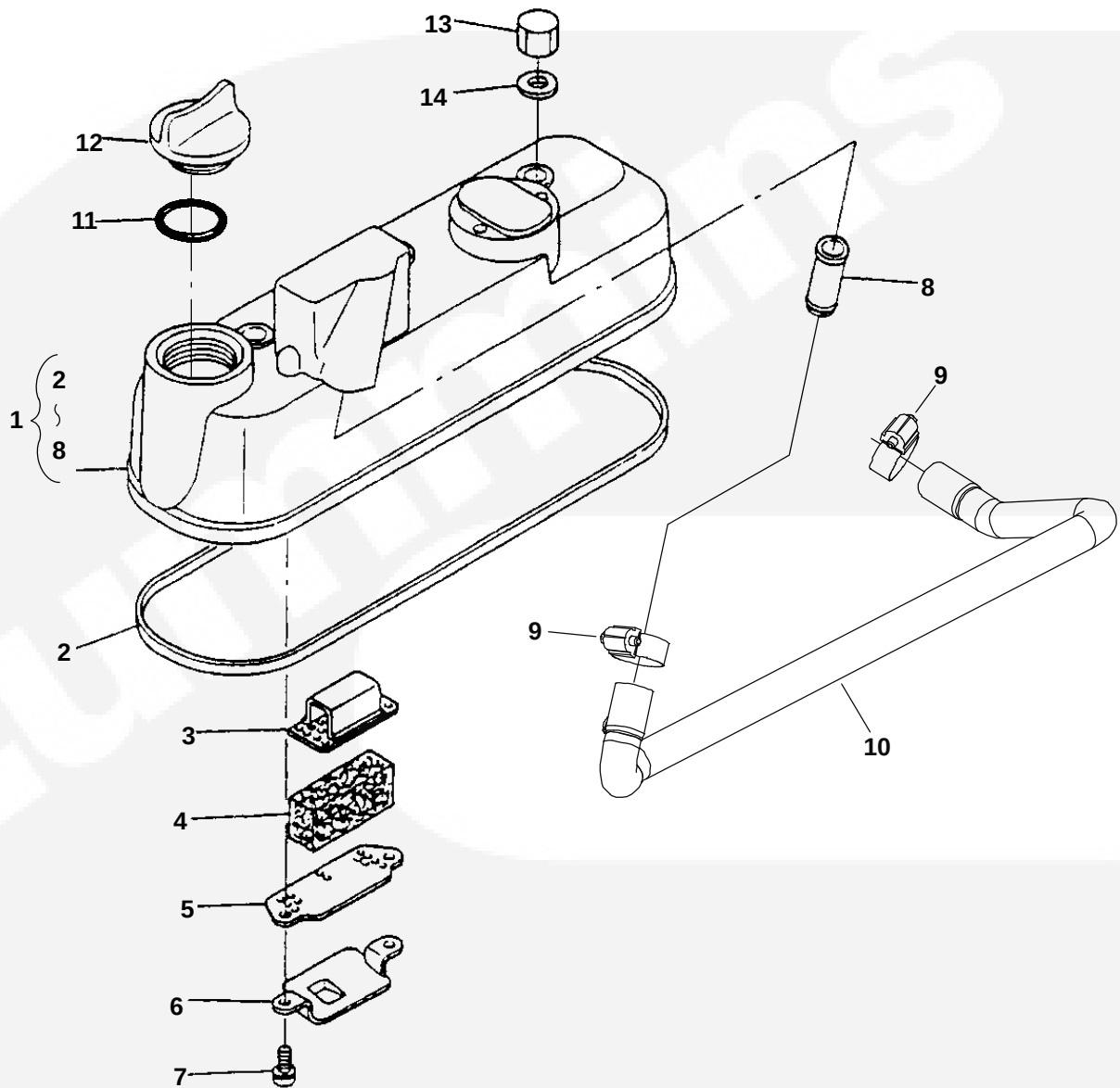
Valve and Rocker Arm Begin Spec C



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7395	2	Bolt
2	185-2184	3	Washer, Plain
3	185-2179	3	Nut
4	185-6693	6	Arm Assy, Rocker (Includes Screw and Nut)
5	185-6695	6	Nut
6	185-6694	6	Screw, Adjusting
7	185-6687	3	Bracket, Rocker Arm
8	185-6691	2	Spring, Rocker Arm
9	185-7441	1	Pin, Spring
10	185-6689	2	Washer, Rocker Arm Shaft

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	185-2386	2	Bolt
12	185-6681	3	Valve, Inlet
13	185-6682	3	Valve, Exhaust
14	185-7300	6	Seal, Valve Stem
15	185-6683	6	Spring, Valve
16	110-3959	6	Retainer, Spring
17	110-3827	6	Collet, Valve Spring
18	185-2080	6	Cap, Valve
19	185-6688	3	Stud
20	185-7439	1	Shaft, Rocker Arm

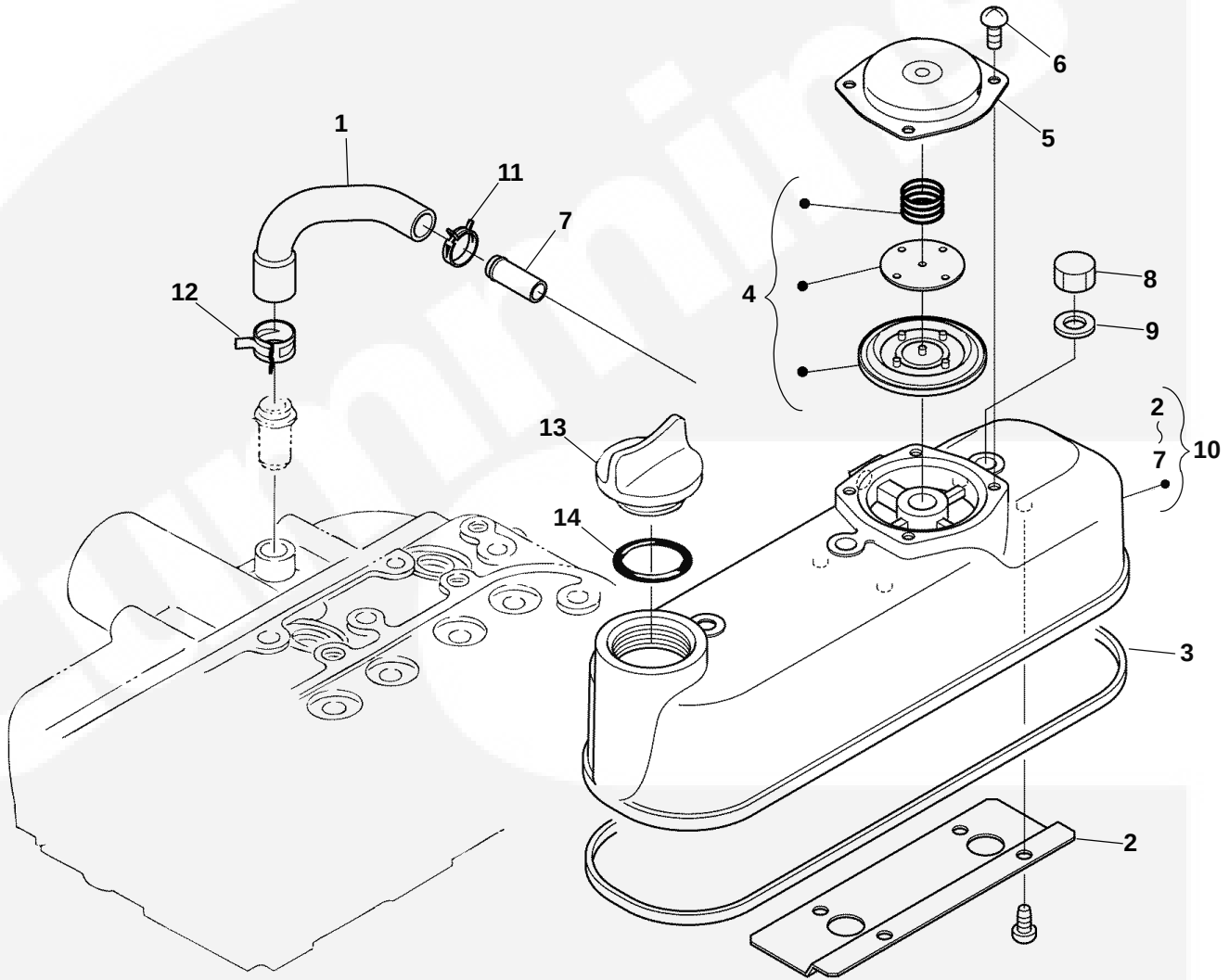
Cylinder Head Cover Spec A



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6867	1	Cover Assy, Cylinder Head (Includes Parts Marked *)	9	503-0976	2	Clamp, Hose
2	185-6868	1	*Gasket, Cylinder Head Cover	10	503-2070	1	Hose, Breather
3	185-6501	1	*Plate, Upper Breather Element	11	185-2349	1	O'Ring
4	185-6721	1	*Element, Breather	12	185-5407	1	Cover, Oil Fill
5	185-6500	1	*Plate, Lower Breather Element	13	185-6394	3	Nut, Cap
6	185-6503	1	*Shield, Breather Oil	14	185-2291	3	Gasket
7	185-2384	2	*Screw, Washer Head				
8	185-6499	1	*Joint, Breather Pipe				

* - Parts Included in Cylinder Head Cover Assy.

Cylinder Head Cover Begin Spec C

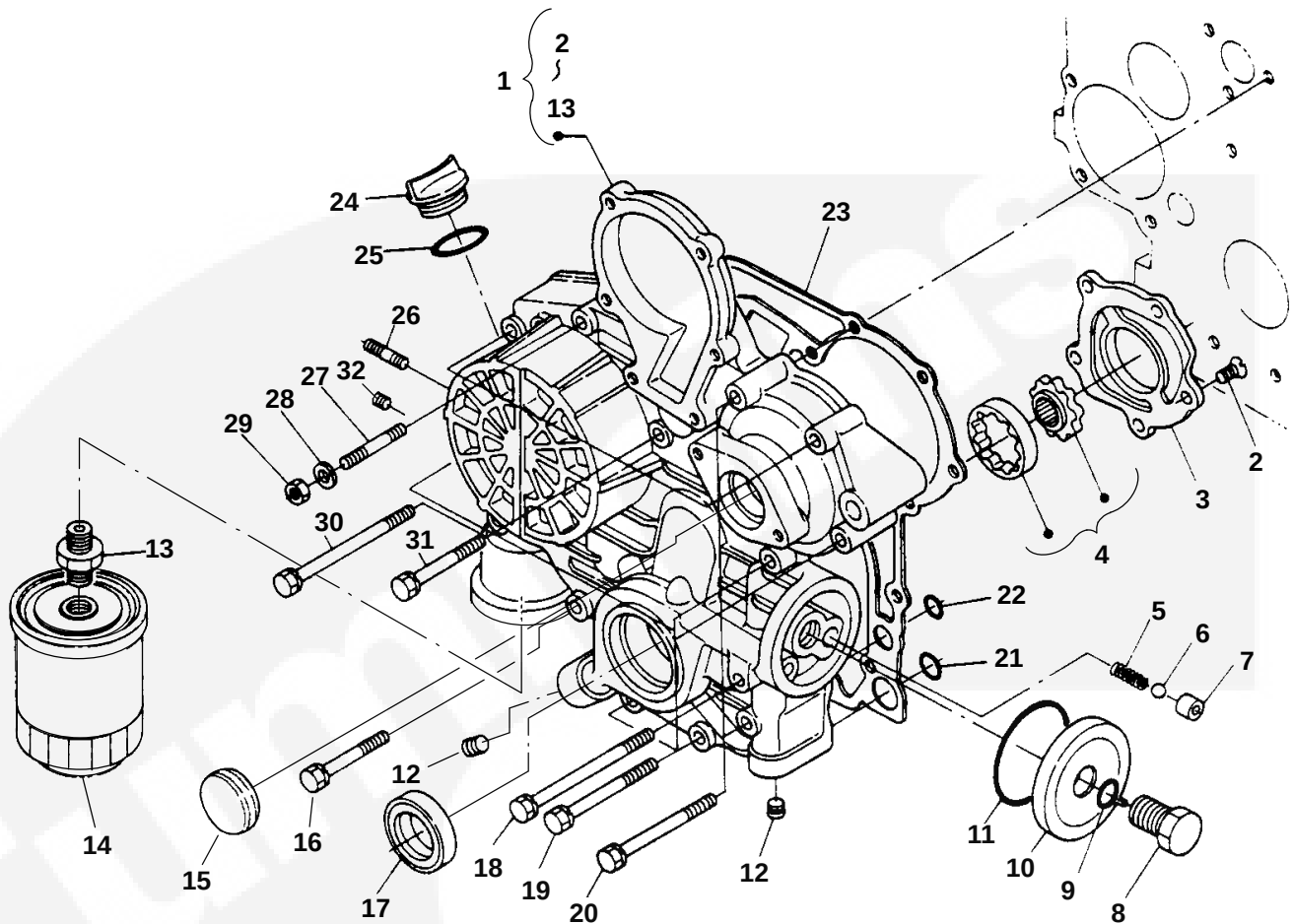


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	115-05121	1	Cover Assy, Cylinder Head (Includes Parts Marked *)
2	123-2298	1	Shield, Breather
3	185-6868	1	*Gasket, Cylinder Head Cover
4	123-2296	1	*Comp. Valve, Breather
5	123-2295	1	*Cover, Breather
6	185-3055	4	*Screw, Pan Head
7	185-6103	1	*Pipe, Water Return
8	185-6394	3	*Nut

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	185-2291	3	Gasket
10	123-2297	1	Tub, Breather
11	503-2709	1	Clamp, Hose
12	503-2708	1	Clamp, Hose
13	123-2299	1	Plug, Oil Filler
14	185-7426	1	O' Ring

* - Parts Included in Cylinder Head Cover Assy.

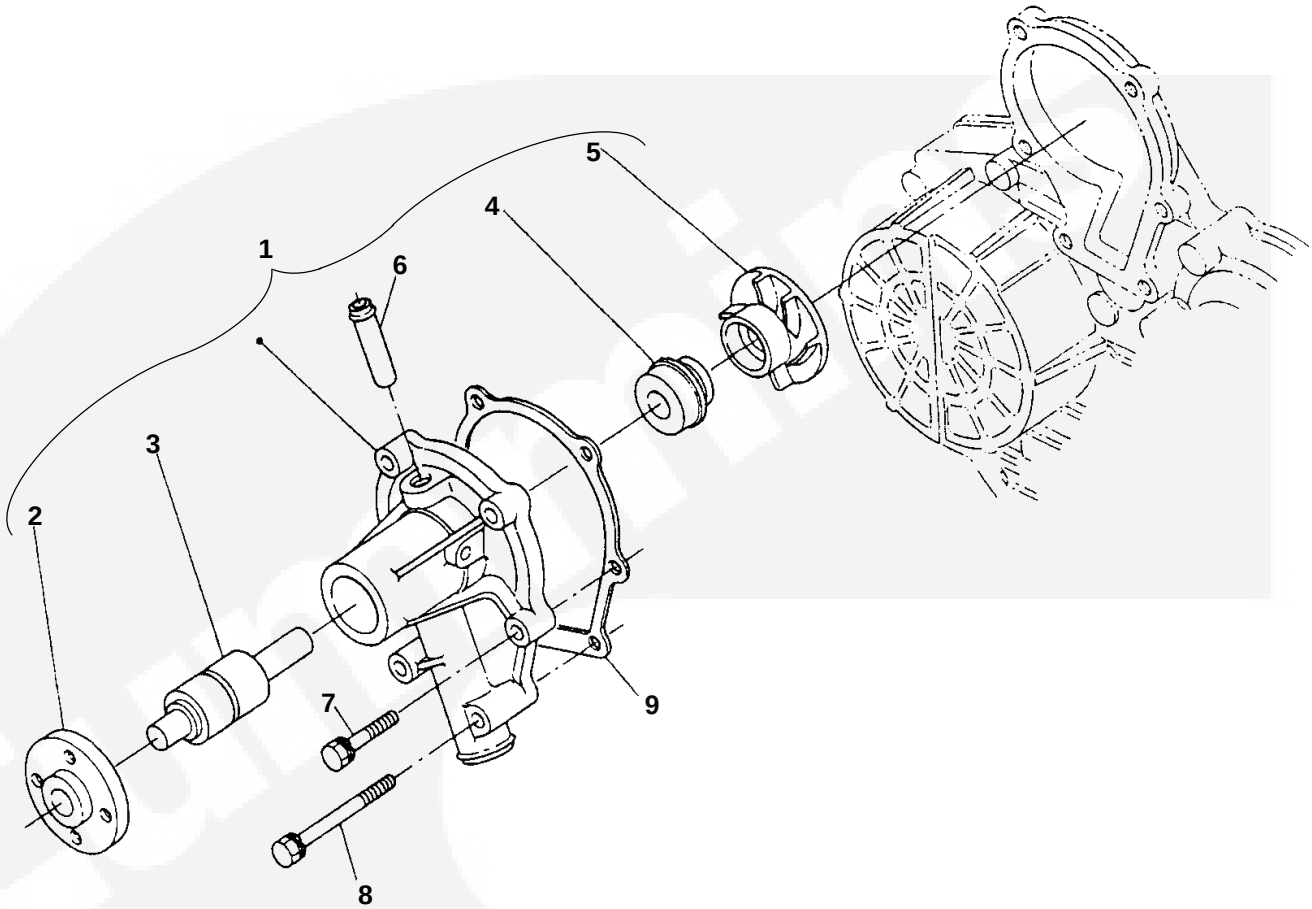
Gearcase



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Gearcase Assy (Includes Parts Marked *)	20	185-6665	2	Bolt
	185-6480	1	Spec A	21	185-5869	2	O'Ring (Spec A Only)
	103-0834	1	Begin Spec C	22	185-3080	2	O'Ring (Spec A Only)
2	185-6487	5	*Screw, Countersunk Head	23	185-6863	1	Gasket, Gearcase
3	185-6486	1	*Cover, Oil Pump	24			Cover, Oil Fill
4	185-6485	1	*Rotor, Oil Pump		185-5407	1	Spec A
5	185-6482	1	*Spring		123-2299	1	Begin Spec C
6	185-6484	1	*Ball	25	185-2349	1	O'Ring
7	185-6483	1	*Seat, Valve	26			Stud
8	185-5742	1	*Bolt		185-2359	2	Spec A
9	185-5869	1	*O'Ring		185-7425	2	Begin Spec C
10	185-5741	1	*Cover	27			Stud
11	185-5743	1	*O'Ring		185-6493	1	Spec A
12	185-6481	5	*Plug		185-7423	1	Begin Spec C
13	185-2124	1	*Fitting, Connector	28	185-6004	1	Washer, Spring
14	185-5835	1	Filter, Oil	29	185-4255	1	Nut
15	185-7216	1	Plug	30	185-6492	1	Bolt
16	185-6490	1	Bolt	31	185-5833	3	Bolt
17	185-6864	1	Seal, Oil	32	505-2319	1	Plug
18	185-6491	2	Bolt				
19	185-7069	4	Bolt				

* - Parts Included in Gearcase Assy.

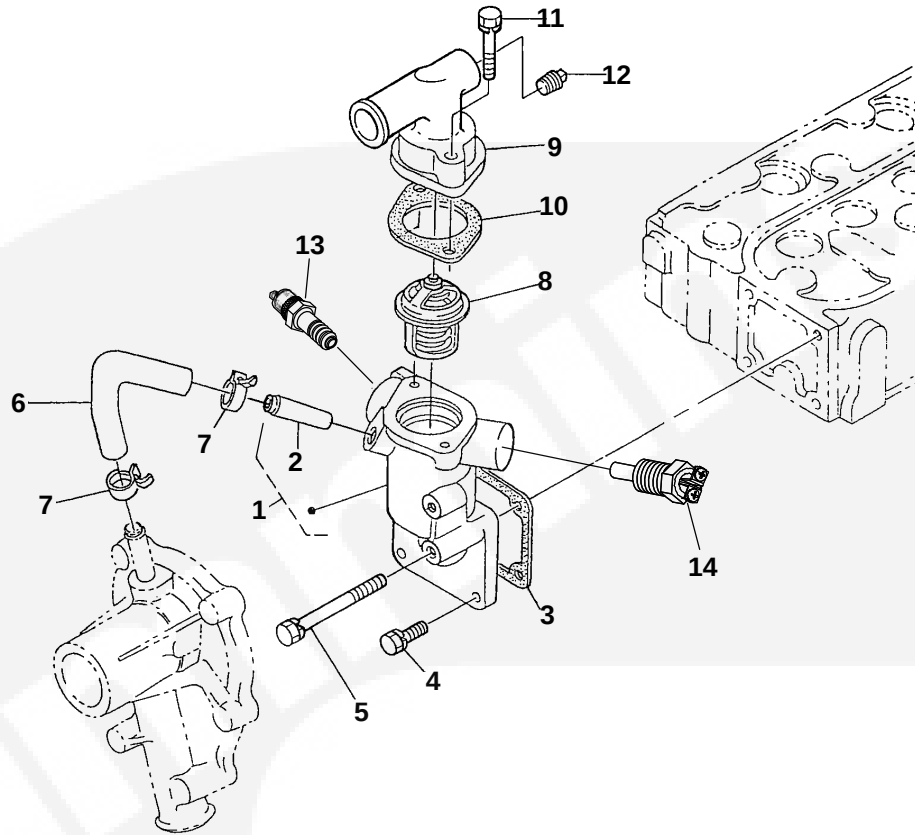
Captive Water Pump Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Pump Assy, Water (Includes Parts Marked *)	5	185-6674	1	*Impeller, Water Pump
	185-6671	1	Spec A	6	185-5719	1	*Pipe, Water Return
	132-0462	1	Begin Spec C	7	185-6677	4	Bolt
2	185-6672	1	*Flange, Pump Water	8			Bolt
3	185-6673	1	*Bearing		185-5745	2	Spec A
4			*Seal Assy, Mechanical		800-6368	2	Begin Spec C
	185-5714	1	Spec A	9	185-7299	1	Gasket, Water Pump
	509-0440	1	Begin Spec C				

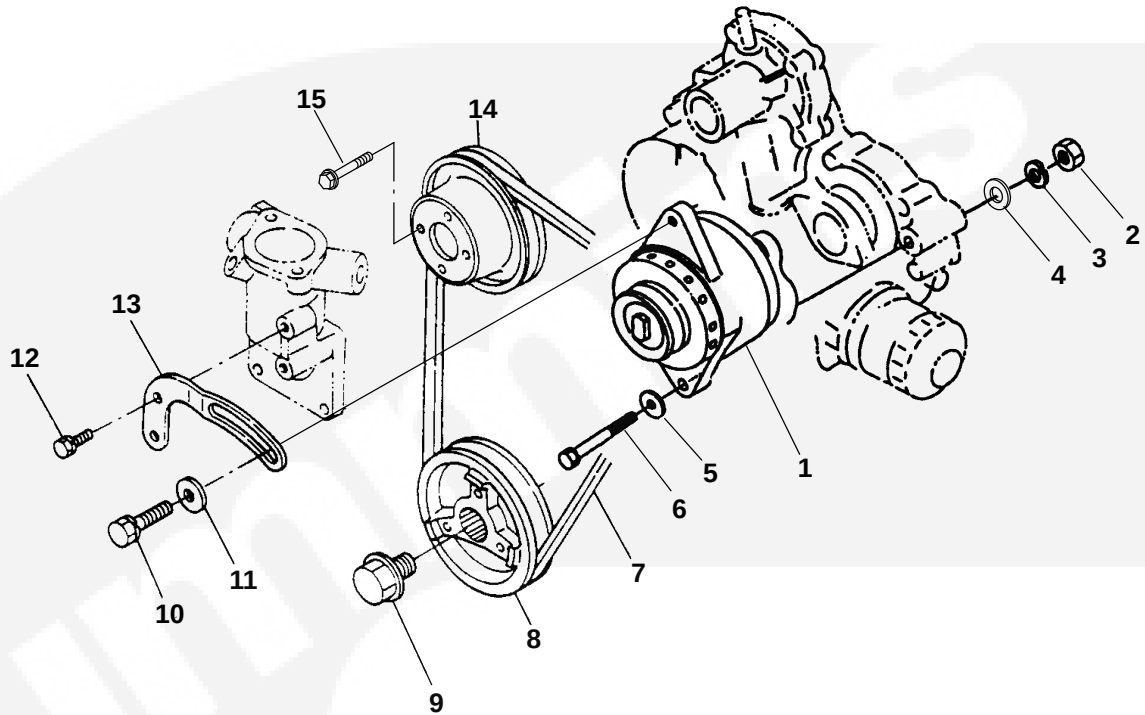
* - Parts Included in Water Pump Assy.

Water Flange



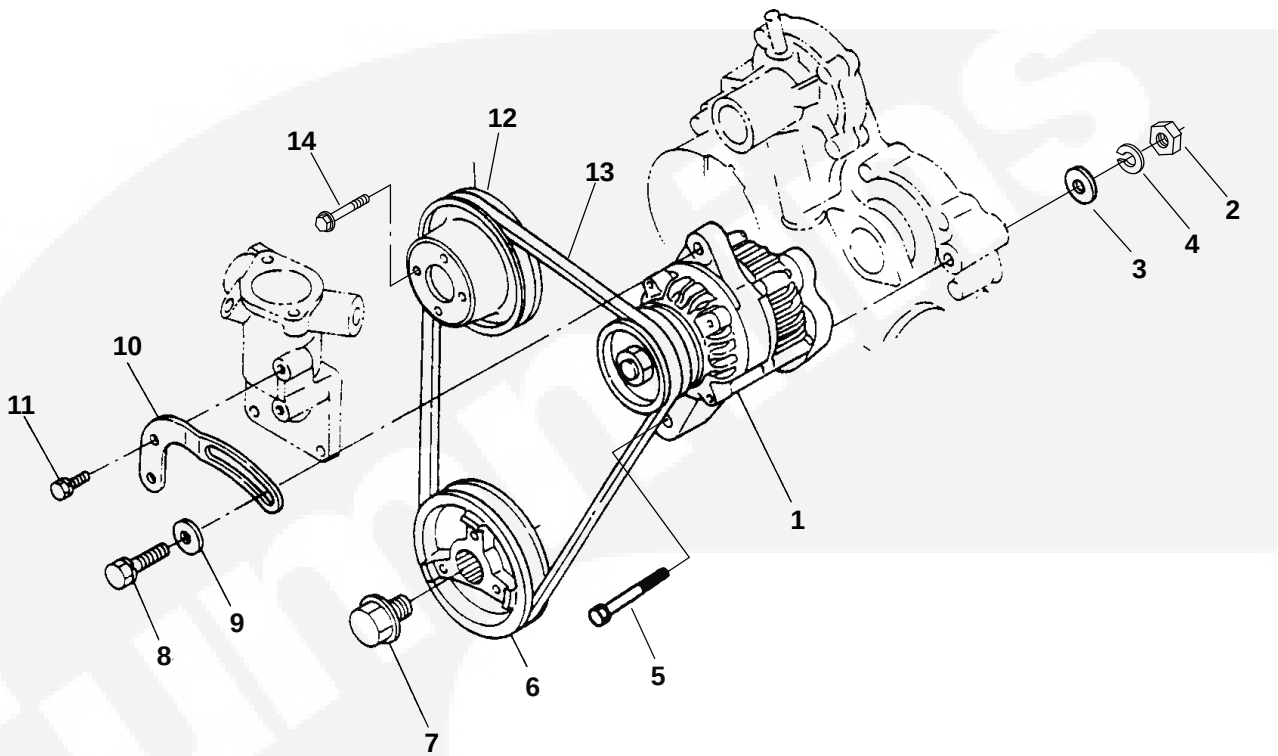
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Kit, Sender	9	185-7298	1	Cover, Thermostat
	300-5040	1	Neg Ground	10	185-6004	1	Gasket, Thermostat
	300-5041	1	ISO Ground	11	185-2365	2	Bolt
1	185-7297	1	Flange, Water	12	185-5826	1	Plug
2	185-6666	1	Pipe, Water Return	13			Sender, Water Temperature
3	185-6922	1	Gasket, Water, Flange		193-0318	1	Neg Ground
4	185-2388	3	Bolt		193-0457-01	1	ISO Ground
5	185-6665	1	Bolt	14			Switch, Water Temperature
6	185-6445	1	Pipe, Water Return		309-0601	1	Neg Ground
7	185-6667	2	Clamp, Hose		309-0576	1	ISO Ground
8	185-6005	1	Assy, Thermostat				

Alternator **12V Negative/Isolated Ground**



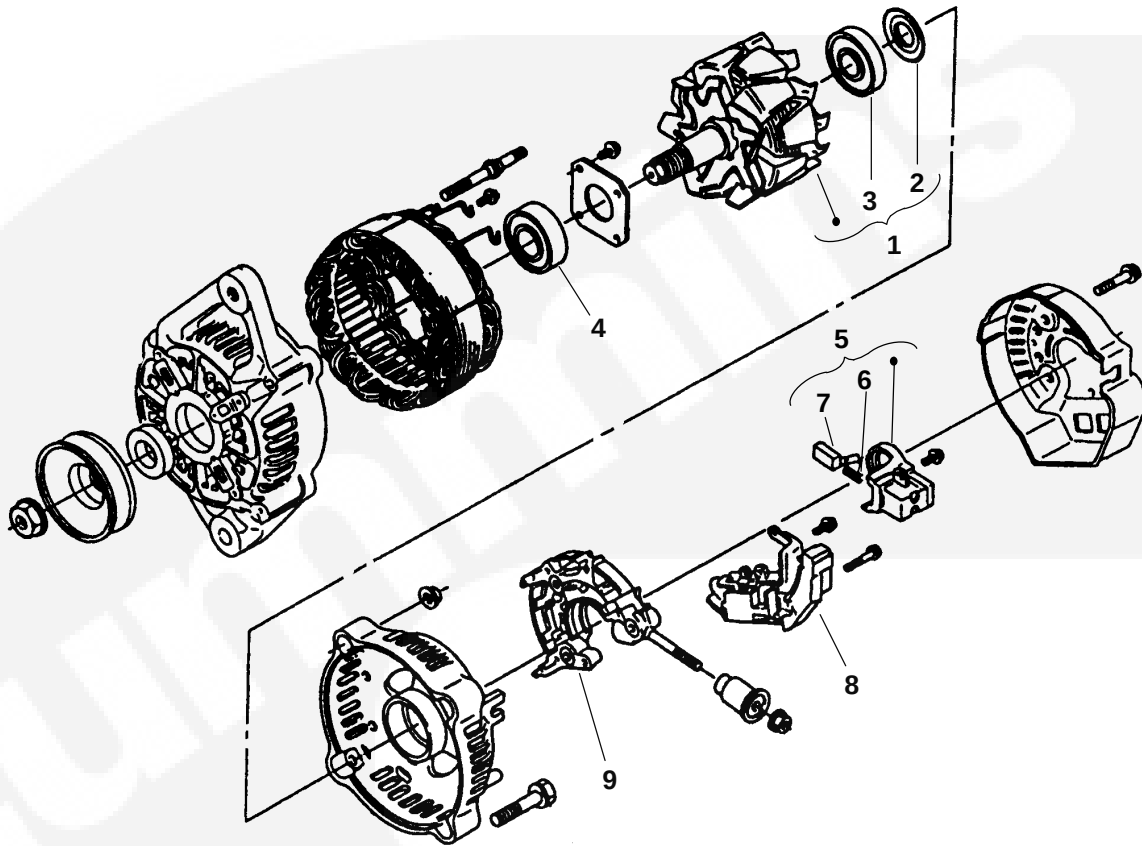
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7269	1	Dynamo (No Components Available)	10			Bolt
2	185-5445	1	Nut	185-2564	1		Spec A
3	185-6785	1	Washer, Spring	800-6345	1		Begin Spec C
4	185-6630	1	Washer, Plain	11	185-6786	2	Washer, Plain
5	185-7272	1	Washer, Plain	12			Bolt
6	185-7271	1	Bolt	185-2388	2		Spec A
7	185-6934	1	Belt, Fan (37.5")	185-2389	2		Begin Spec C
8			Pulley, Fan Drive	13			Stay, Alternator
	185-6933	1	Spec A	185-7270	1		Spec A
	512-0323	1	Begin Spec C	191-2391	1		Begin Spec C
9	185-6633	1	Bolt	14	185-6631	1	Pulley, Fan
				15	185-2572	4	Bolt

Alternator 24V Negative Ground



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Alternator (See Separate Page for Components)	6	185-6933	1	Pulley, Fan Drive
	185-7225	1	Spec A	7	185-6633	1	Bolt
	191-2392	1	Begin Spec C	8	185-2564	1	Bolt
2	185-5445	1	Nut	9	185-6786	1	Washer, Plain
3	185-6630	1	Washer, Plain	10	185-7226	1	Stay, Alternator
4	185-6785	1	Washer, Spring	11	185-2388	2	Bolt
5			Bolt	12	185-6631	1	Pulley, Fan
	185-7227	1	Spec A	13	185-6934	1	Belt, Fan (37.5")
	185-6629	1	Begin Spec C	14	185-2572	4	Bolt

Alternator Components 24V Negative Ground



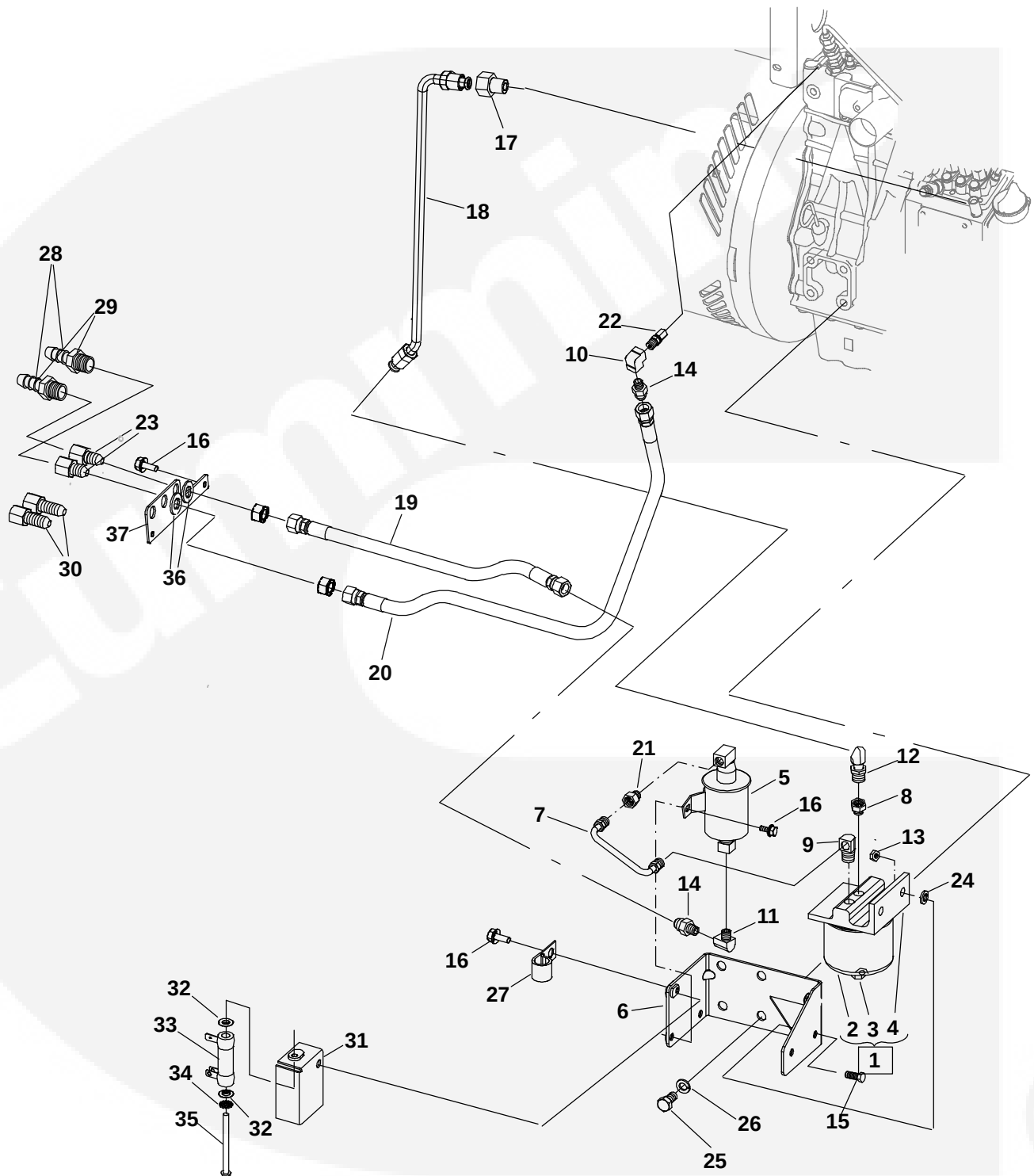
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185-7225	1	Alternator	6	185-5784	2	Spring, Brush
1	185-7228	1	Rotor (Includes Cover and Bearing)	7	185-5783	2	Brush
2	185-5771	1	Cover, Bearing	8	185-6820	1	Regulator
3	185-7229	1	Bearing, Ball	9	185-6816	1	Rectifier Assy
4	185-5777	1	Bearing, Ball				
5	185-5782	1	Holder, Brush (Includes Brush and Spring)				

Note: Parts not Identified are Not For Sale.

“Blank Page”



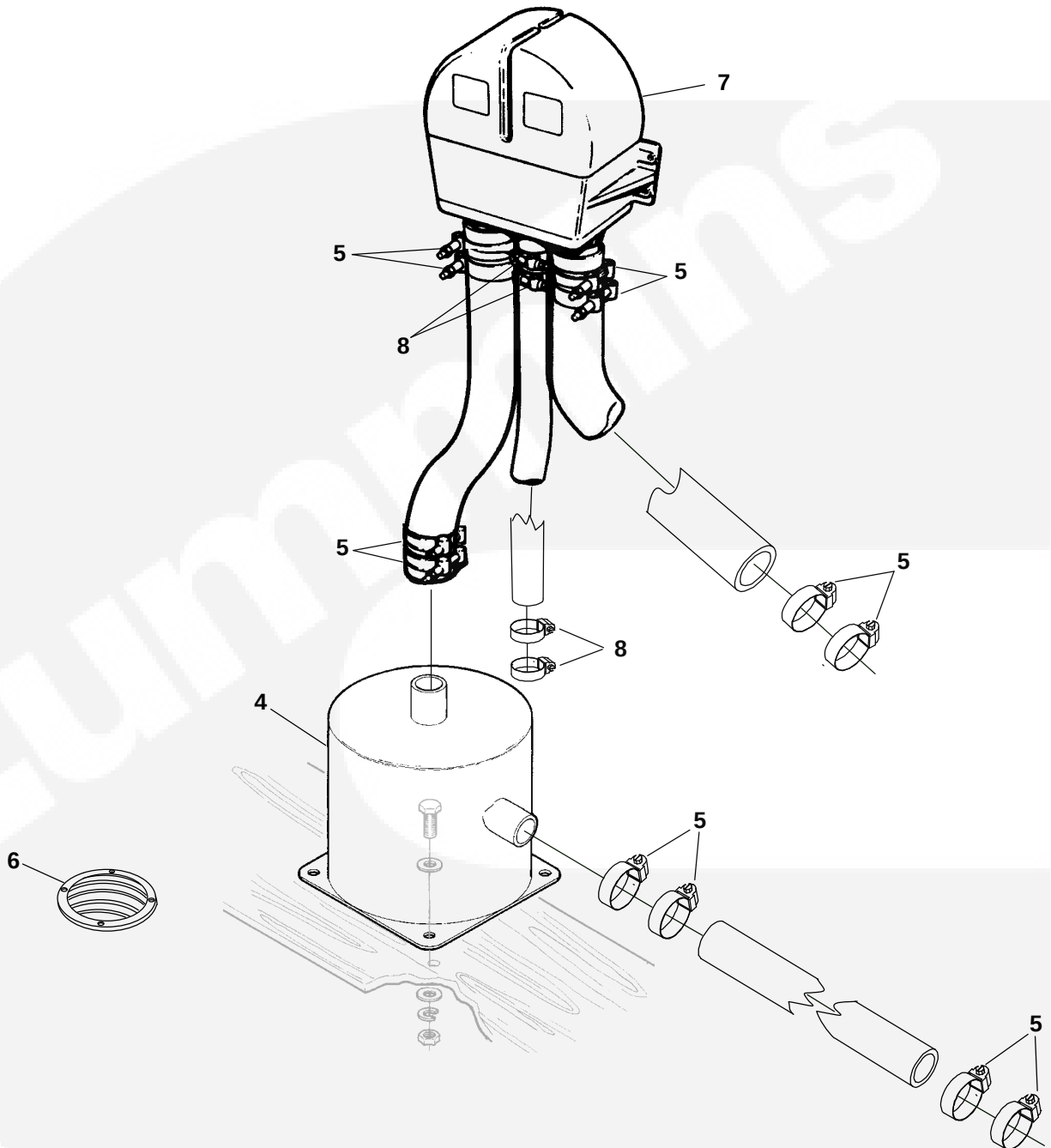
Fuel Pump



Fuel Pump

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	149-2599	1	Pump Assy, Fuel (Includes parts Marked *)	17	502-0003	1	*Connector, Inverted Male
	149-2655	1	Kit, Fuel Adapter (Includes Barbed Hose Connector)	18	501-0709	1	Line, Fuel Assy
	149-2654	1	Kit, Fuel Adapter (Includes Barbed Hose Connector)	19	501-0672-01	1	Line, Fuel (28.5")
	149-2612	1	Kit, Adapter Fitting (Includes Metric Adapters)	20	501-0672-02	1	Line, Fuel (38.5")
1	149-2100	1	Filter Assy, Fuel (Includes Element, Plug, and Base)	21	502-0003	2	Connector, Inverted Male
2	149-2106	1	Element	22	502-1245	1	Adapter, Pipe
3	502-0028	1	Plug, Drain	23	505-1489	2	Connector, Female Bulkhead
4	149-2235	1	Base, Aluminum	24	850-0114-54	2	Washer, Lock (M8)
5	149-2331-01	1	*Pump, Fuel (E5)	25	800-3030	3	Screw, Hex Head Cap (M10 x 1.25 x 20mm)
6	149-2618-04	1	*Bracket, Mounting	26	850-0114-55	3	Washer, Lock (M10)
7	149-2601	1	*Line, Fuel (.25")	27	518-0515	1	Clip, Hose
8	502-0029	1	*Bushing, Reducer	28	502-1162	2	Connector, Barbed Hose (1/4-18 x 3/8")
9	502-0041	1	*Elbow, Male	29	502-0941	2	Connector, Barbed Hose (1/4-18 x 5/16")
10	502-0055	1	Elbow, Pipe	30	505-1485	2	Adapter, Metric NPT
11	502-0020-01	1	*Elbow, 90° Street	31	304-0831-03	1	Bracket, Resistor (24V)
12	502-0065	1	*Elbow, Inverted Male	32	304-0796	2	Washer, Centering (24V)
13	862-0026-55	2	*Nut, Hex (M8)	33	350-1238	1	Resistor (3.8Ohm)
14	505-1490	2	*Connector, Male	34	856-0003	1	Washer, EIT (#10)(24V)
15	800-3017-19	2	*Screw, Hex Head Cap * (M8 x 1.25 x 20mm)	35	813-0112	1	Screw, Round Head Machine (#10-32 x 2.5")(24V)
16	821-6002-02	5	*Screw, Hex Head Sems (M6 x 12mm)	36	526-0406	2	Washer, Flat (M14)
				37	149-2609-02	1	Bulkhead, Fuel Connection

Water Separator/Muffler



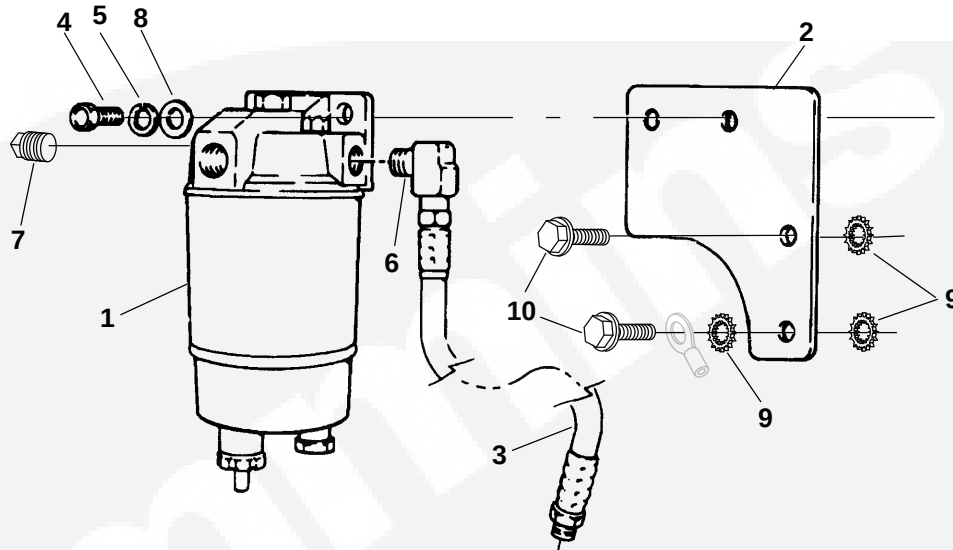
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	155-3217	1	Kit, Muffler/Separator (Includes Parts Marked *)	3	155-1002	1	*+ Strainer, Slotted
	155-2030	1	Kit, Muffler Marine (Includes Parts Marked +)	4	155-3218	1	*^ Separator, Water (2")
	155-3216	1	Kit, Water Separator (Includes Parts Marked ^)	5	503-1139	4	*^ Clamp, Hose (1-1/2")
1	155-2029	1	*+ Muffler, Marine				
2			Clamp, Hose (2")				
	503-1142	8	+ Muffler Kit				
	503-1142	4	^ Separator Kit				
	503-1142	10	* Muffler/Separator Kit				

* - Parts Included in Muffler/Separator Kit.

+ - Parts Included in Muffler Kit.

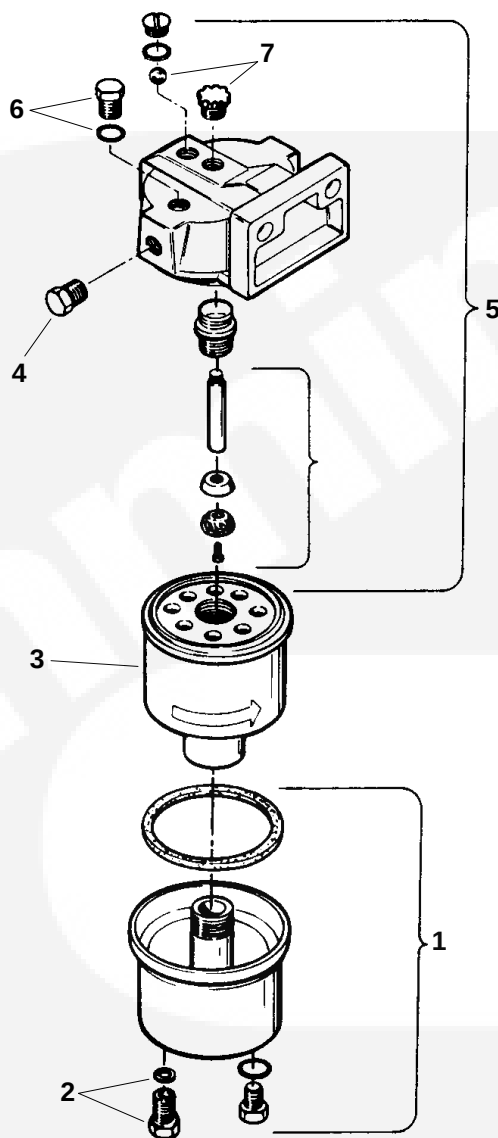
^ - Parts Included in Water Separator Kit.

Remote Water Separator



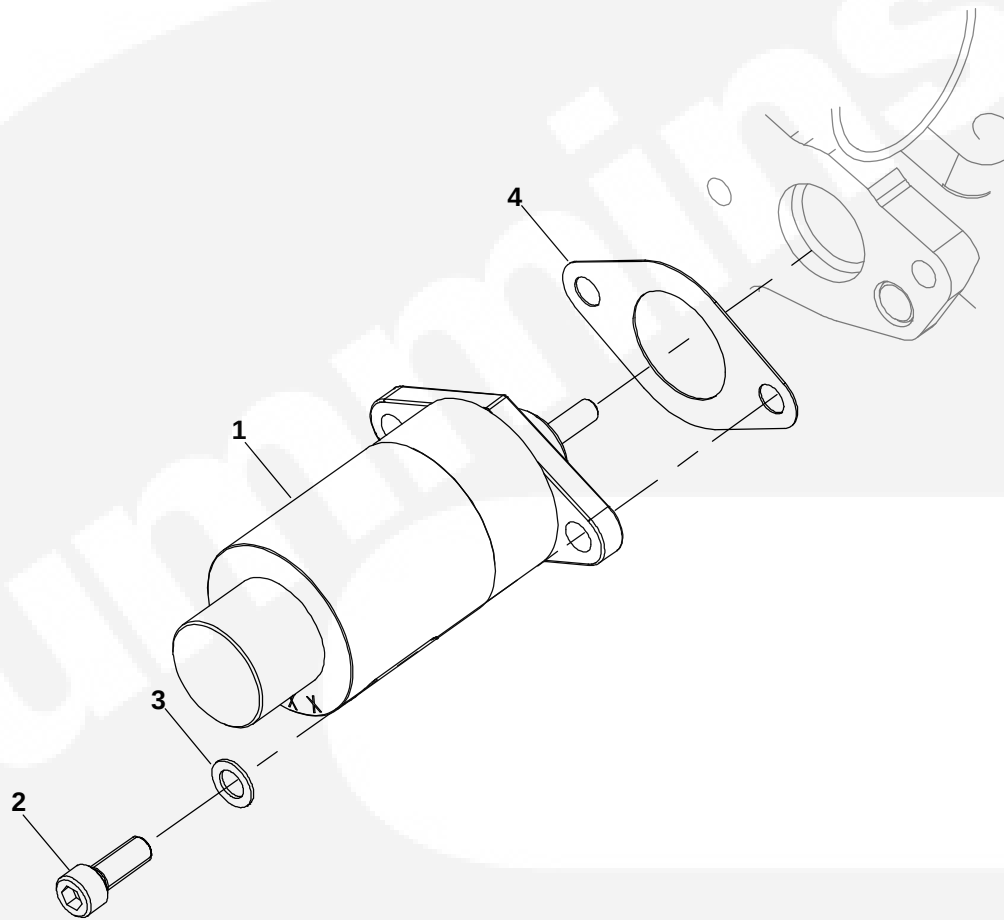
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	149-2313	1	Kit, Remote Fuel/Water Separator	5	850-2008	2	Washer, Lock (M8)
1	149-1908-05	1	Separator, Fuel/Water (See Separate Page for Components)	6	502-0054	1	Elbow, Street 90° (1/4 NPT)
2	149-2312	1	Bracket, Separator Mounting	7	502-0153	1	Plug, Hex Pipe (1/4 NPT)
3	501-0578	1	Line, Flex Fuel	8	526-2100	2	Washer, Flat (M8)
4	800-2059	2	Screw, Hex Head Cap (M8 x 1.25 x 30mm)	9	856-0012	3	Washer, EIT (7/16'')
				10	800-2087	2	Screw, Hex Head Cap (M10 x 1.5 x 30mm)

Remote Water Separator Components



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	149-2045	1	Kit O'Ring (Includes Seal and Plunger)	4	502-0153	1	Plug, Hex (1/4")
	149-1908-05	1	Separator, Water	5	149-1949	1	Head Assy, Replacement (Includes Vent Plug, O'Rings, Seal, Cap, Tube and Pump Assy)
1	149-2046	1	Kit, Metal Bowl Replacement (Includes Plug, O'Rings and Drain Assy)	6	149-1952	1	Plug, Vent (Includes O'Ring)
2	149-1953	1	Drain Assy (Includes Knob and Seal)	7	149-2047	1	Pump Assy (Includes Plunger, Retainer, Shaft, Check Ball, Knob and Screw)
3	149-1914-01	1	Element (Includes Seals)				

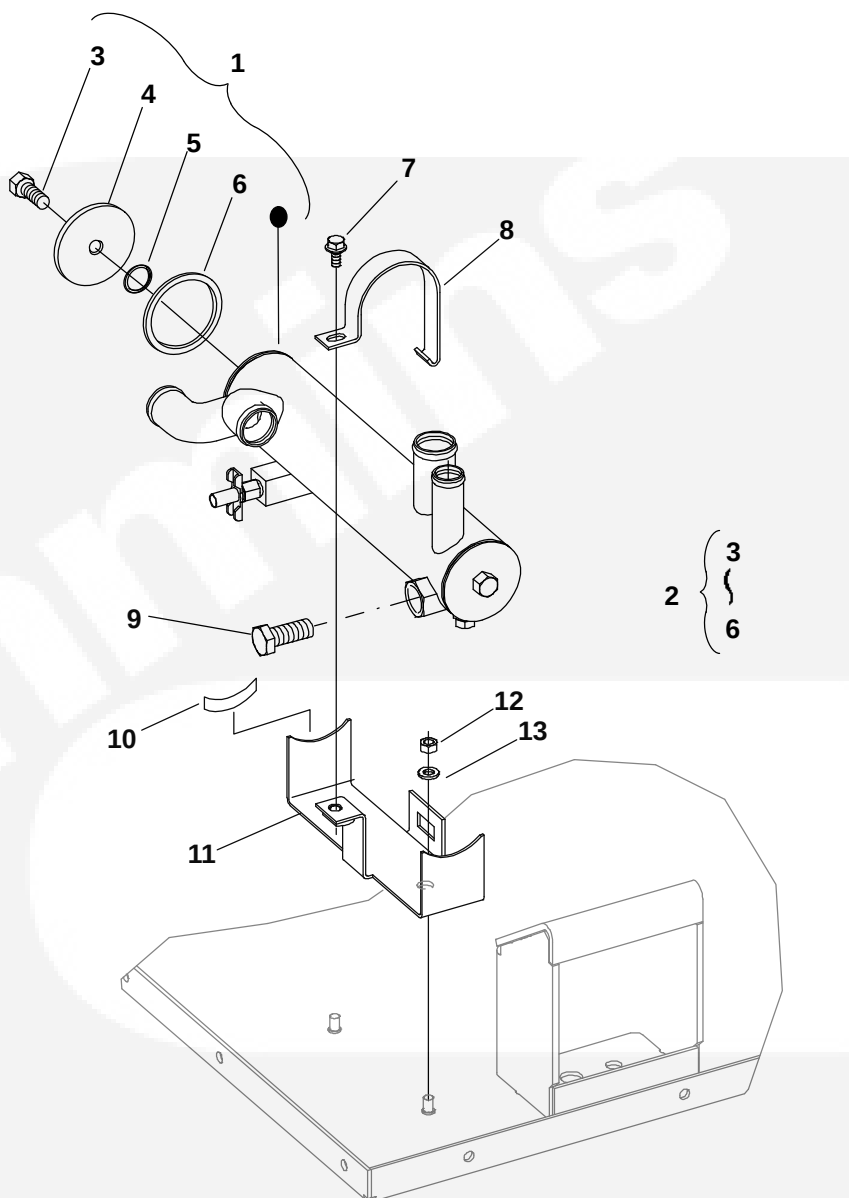
Governor Actuator



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	306-5006-01	1	Actuator, Governor (12V)
	306-5006-02	1	(24V)
2	725-1027	2	Screw, Slotted Head Cap (M6 x 1 x 16mm)(1/32")
3	526-0063	2	Washer, Copper
4	184-0071	1	Gasket, Solenoid Cover

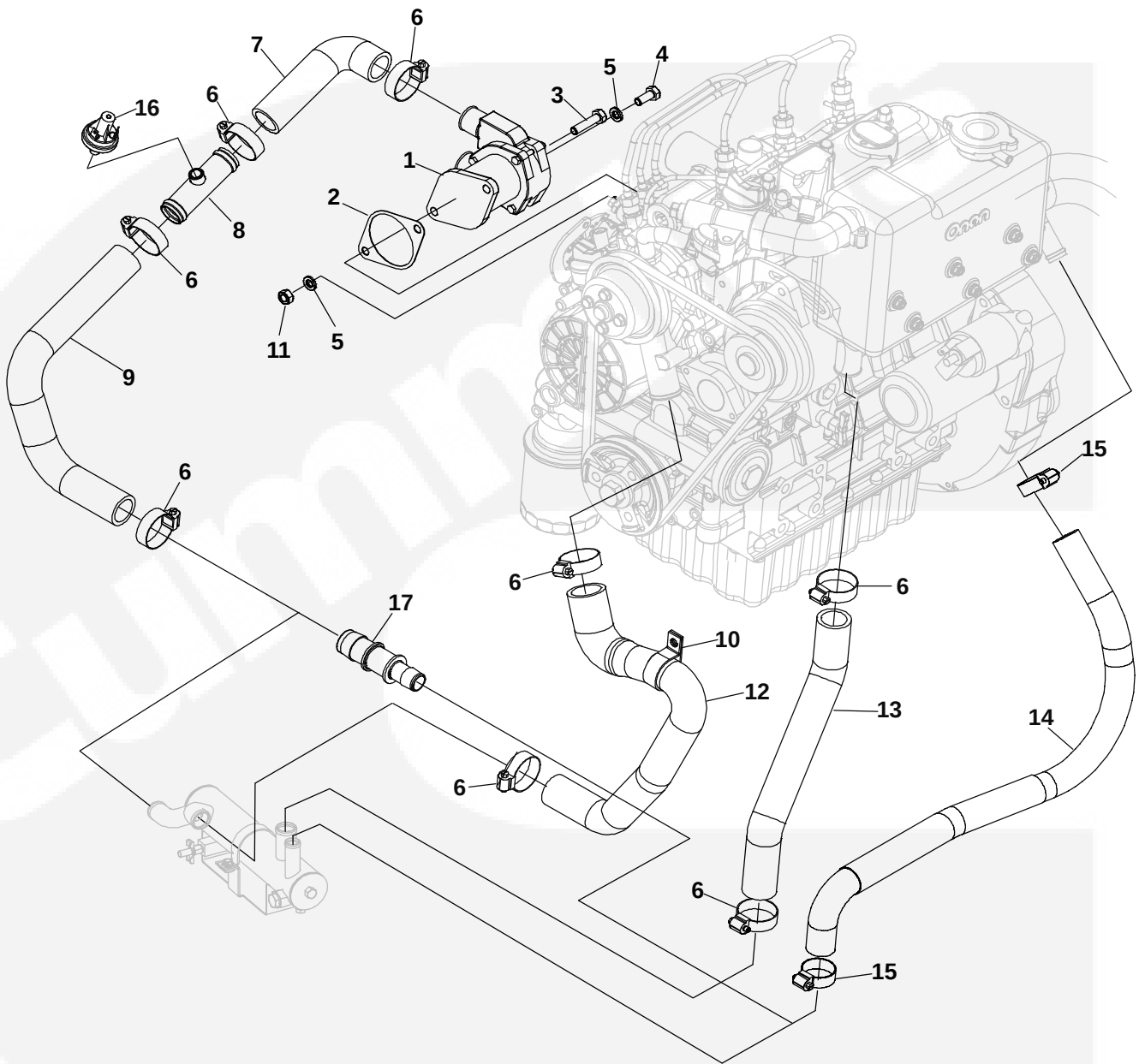


Heat Exchanger



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	130-4985-03	1	Exchanger, Heat	9	130-4434	1	Pencil, Zinc
2	130-5176	1	Kit, Cap (Includes Parts Marked *)	10	508-0210	2	Edging, Heat Exchanger Bracket (90mm)
3	800-0317	1	*Screw, Hex Head (5/16-18)	11	130-4739-03	1	Bracket, Heat Exchanger
4	130-5169	1	*Cover, End	12	862-0026-54	2	Nut, Hex (M6 x 1mm)
5	509-0351	1	*O'Ring	13	850-0114-53	2	Washer, Lock (M6)
6	130-5170	1	*Gasket, End Cover	* - Parts Included with Heat Exchanger and in Heat Exchanger Cap Kit.			
7	821-6002-02	1	Screw, Hex Head Sems (M6 x 1 x 12mm)				
8	130-4740-03	1	Strap, Mounting				

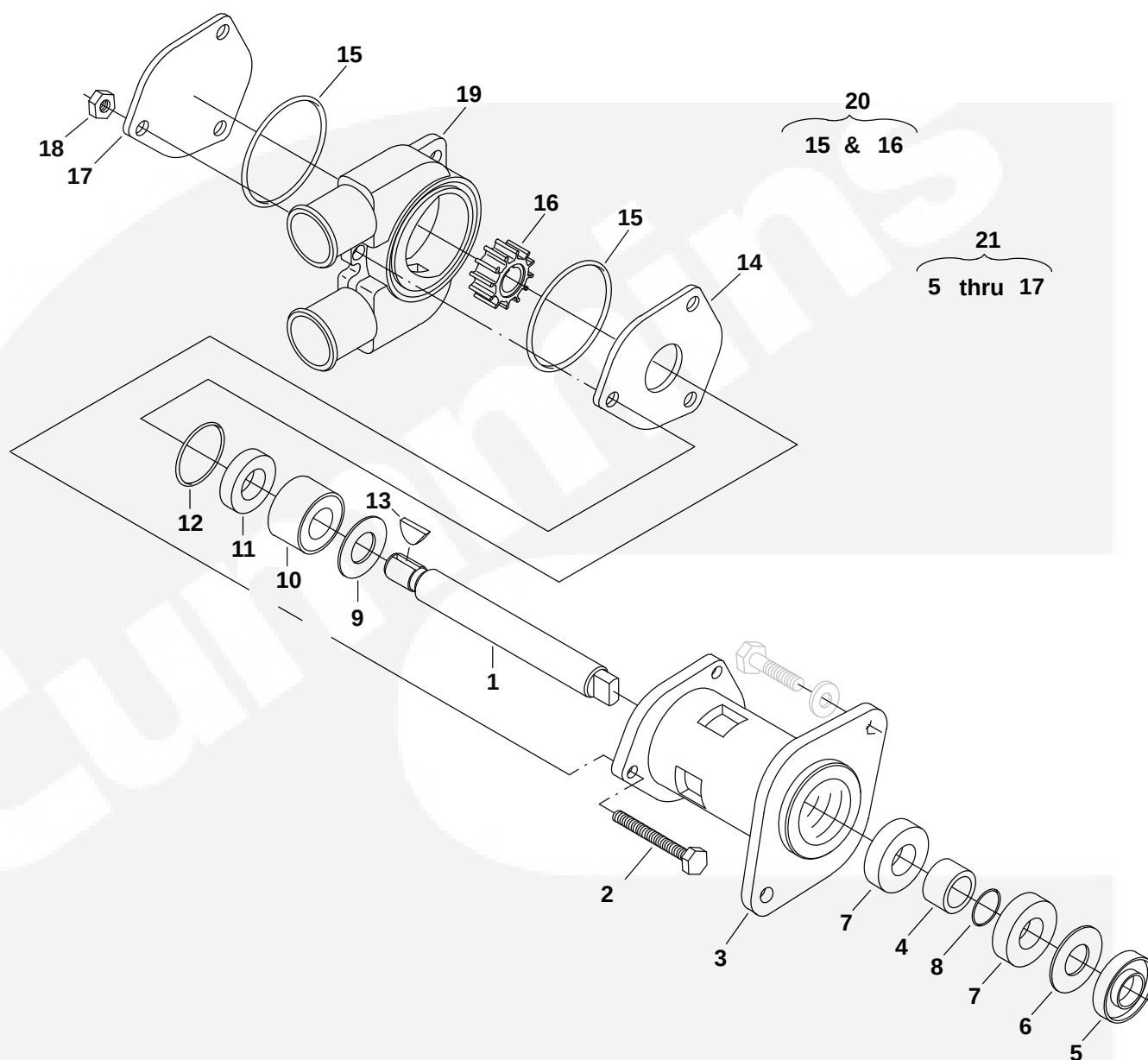
Cooling System



Cooling System

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	155-3199	1	Kit, Keel Cooling (Includes Cover and Gasket)	7	503-2207	1	Hose, Coolant Elbow
1	132-0358	1	Pump, Water (See Separate Page for Components)	8	130-5387-02	1	Tube, Low Pressure Switch
2	185-6579	1	Gasket, Water Pump	9	503-2197	1	Hose, Coolant
3	800-3017-22	1	Screw, Hex Cap (M8 x 1.25 x 35mm)	10	518-0548-05	1	Clamp, Hose
4	800-3017-19	1	Screw, Hex Head Cap (M8 x 1.25 x 20mm)	11	862-0026-55	1	Nut, Hex (M8 x 1.25)
5	850-0114-54	2	Washer, Lock (M8)	12	503-2195	1	Hose, Coolant
6			Clamp, Hose	13	503-2196	1	Hose, Coolant
	503-1137	2	Code E092 (Keel Cooling)	14	501-0712-02	1	Hose, Coolant
	503-1137	8	Code E079 (Heat Exchanger)	15	503-1136	2	Clamp, Hose
				16	309-0667	1	Switch, Pressure
				17	502-1354	1	Reducer, Hose Connector

Raw Water Pump Components



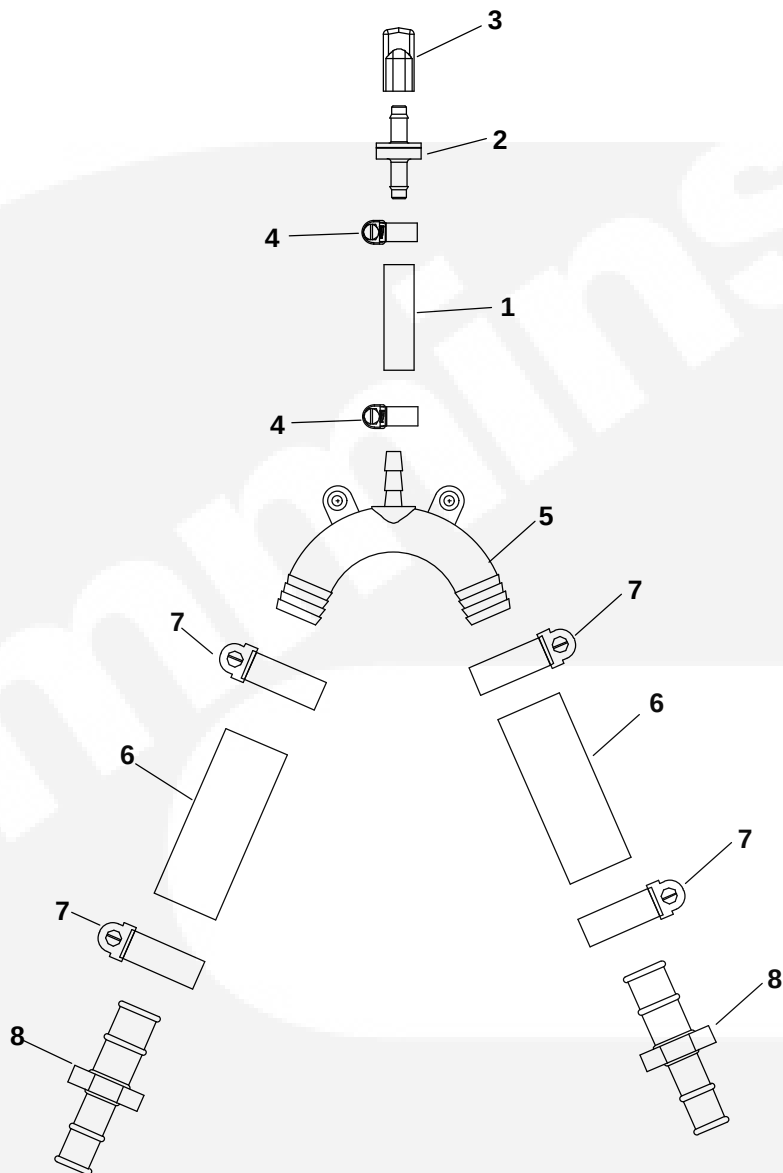
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	132-0358	1	Pump, Water
1	132-0360	1	Shaft
2	132-0376	3	Bolt
3	132-0362	1	Body
4	132-0367	1	Spacer
5	132-0361	1	+ Seal, Lip
6	132-0363	1	+ Ring, Internal Retaining
7	132-0364	2	+ Bearing, Ball
8	132-0365	1	+ Ring, External Retaining
9	132-0368	1	+ Washer,
10	132-0366	1	+ Seal, Mechanical
11	132-0369	1	+ Seat, Seal
12	132-0370	1	+ O'Ring
13	132-0374	1	+ Key

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
14	132-0371	1	+ Plate, Wear
15	132-0372	2	*+ O'Ring
16	132-0375	1	*+ Impeller
17	132-0373	1	+ Plate, Cover
18	132-0377	3	Nut
19	132-0378	1	Housing
20	132-0379	1	Kit, Minor Service (Includes Parts Marked *)
21	132-0380	1	Kit, Major Service (Includes Parts Marked +)

* - Parts Included in Minor Service Kit.

+ - Parts Included in Major Service Kit.

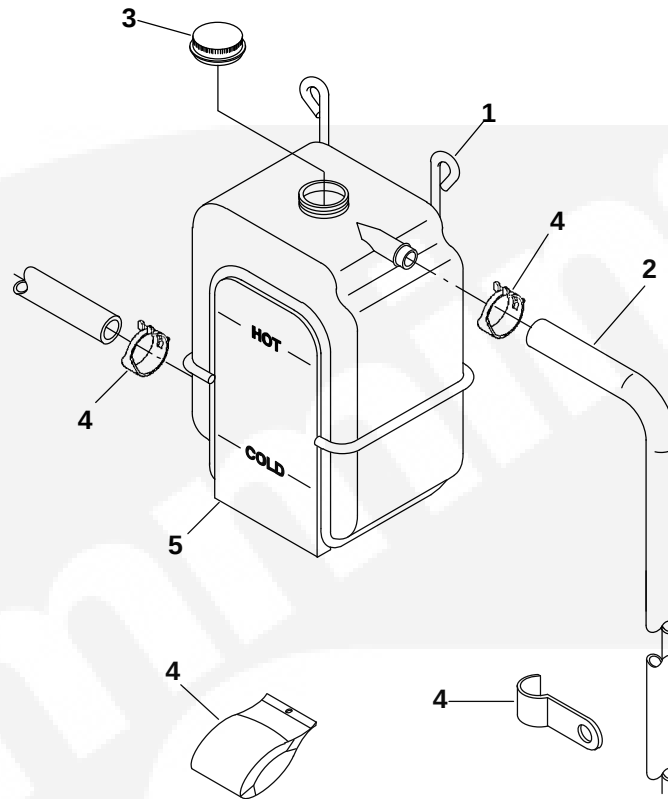
Vacuum Relief Valve



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	541-0863	1	Kit, Siphon Break
1	503-2352	1	Hose, Coolant
2	504-0223	1	Value, Check
3	502-1425-02	1	Cap, Tube
4	503-2309	2	Clamp, Hose

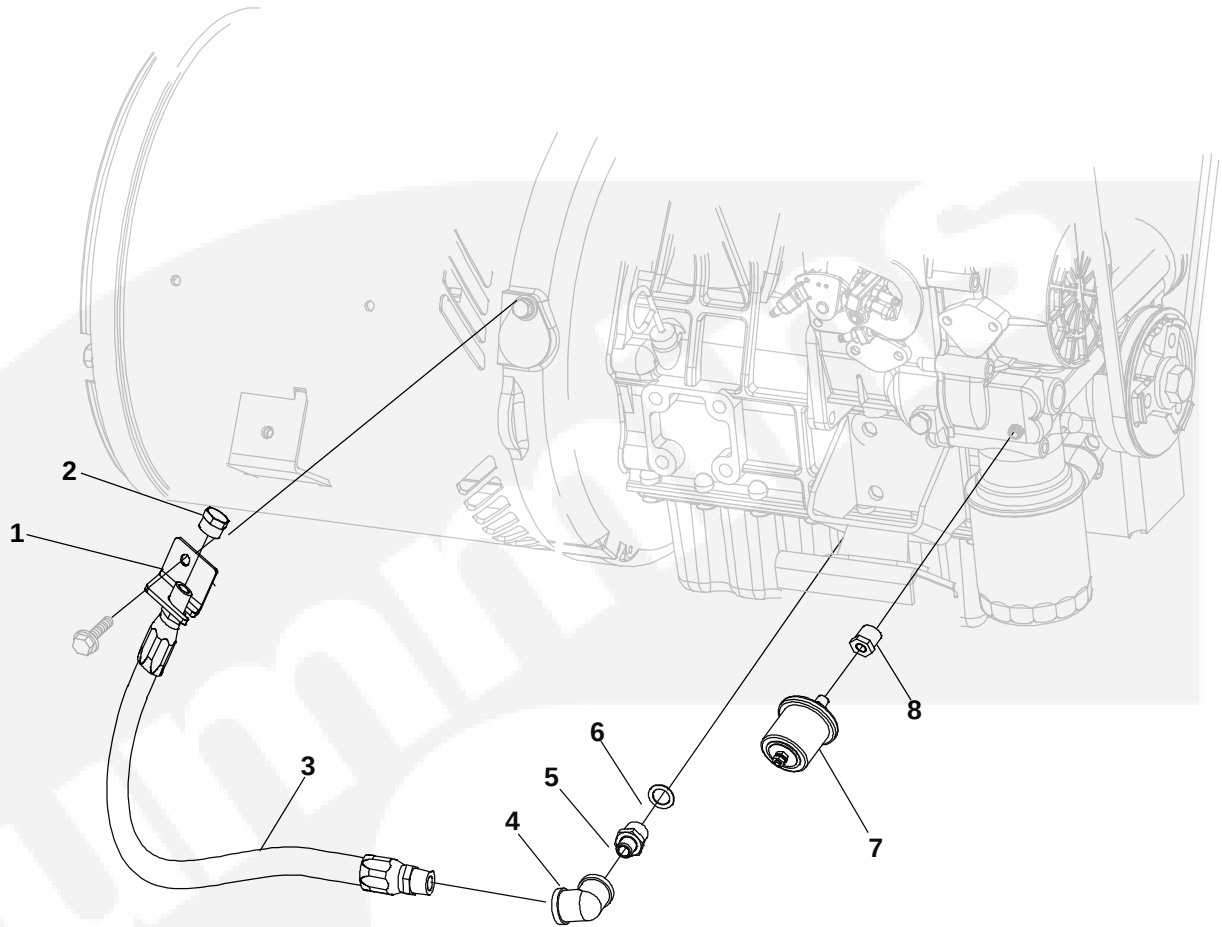
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
5	502-1463	1	Connector, Hose
6	503-2394	2	Hose, Water
7	503-0977	13	Clamp, Hose
8	502-1450	2	Adapter, Hose

Coolant Recovery Tank



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	130-3574	1	Kit, Coolant Recovery	4	130-3573	1	Hardware Package (Includes Mounting Hardware)
1	130-3571	1	Hanger, Tank	5	130-3570	1	Tank, Coolant Recovery
2	503-1692	1	Hose (5/16 I.D. x 120" Lg.)				
3	130-3572	1	Cap, Tank				

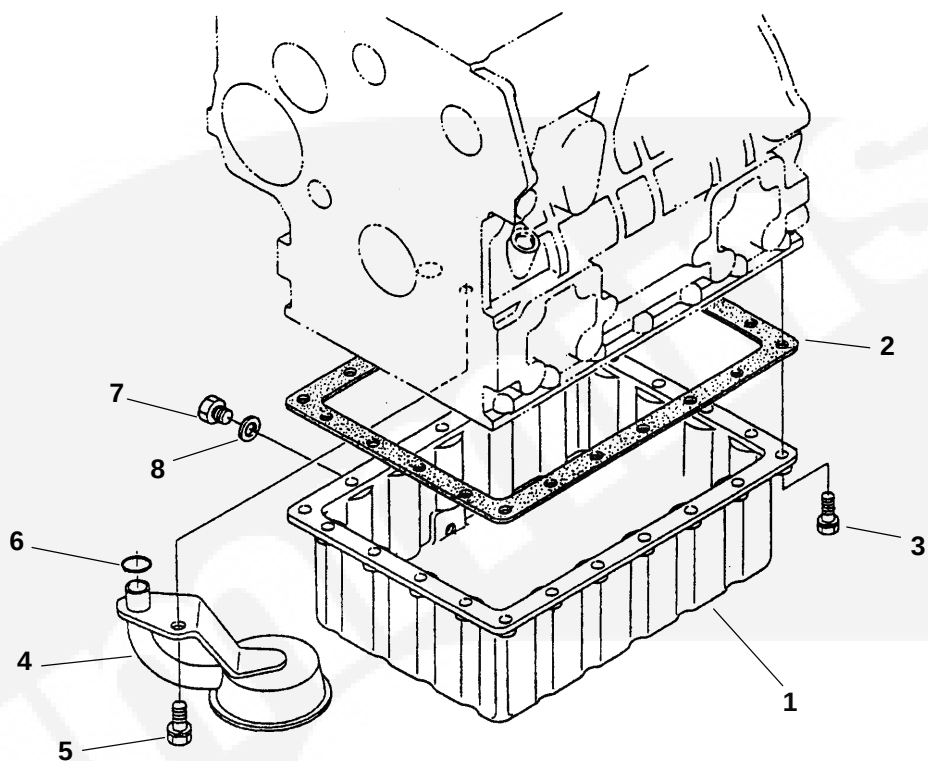
Oil System



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	120-1332-02	1	Bracket, Oil Drain
2	502-1123	1	Cap, Pipe
3	501-0624	1	Hose, Oil Drain
4	502-0263	1	Elbow, Pipe
5	102-1485	1	Adapter, Oil Drain
6	185-5495	1	Gasket, Oil Drain
7			*Sender, Oil Pressure
	193-0244	1	Negative Ground (B200 B201)
	193-0430-01	1	+ 12V Isolated Ground (B380)

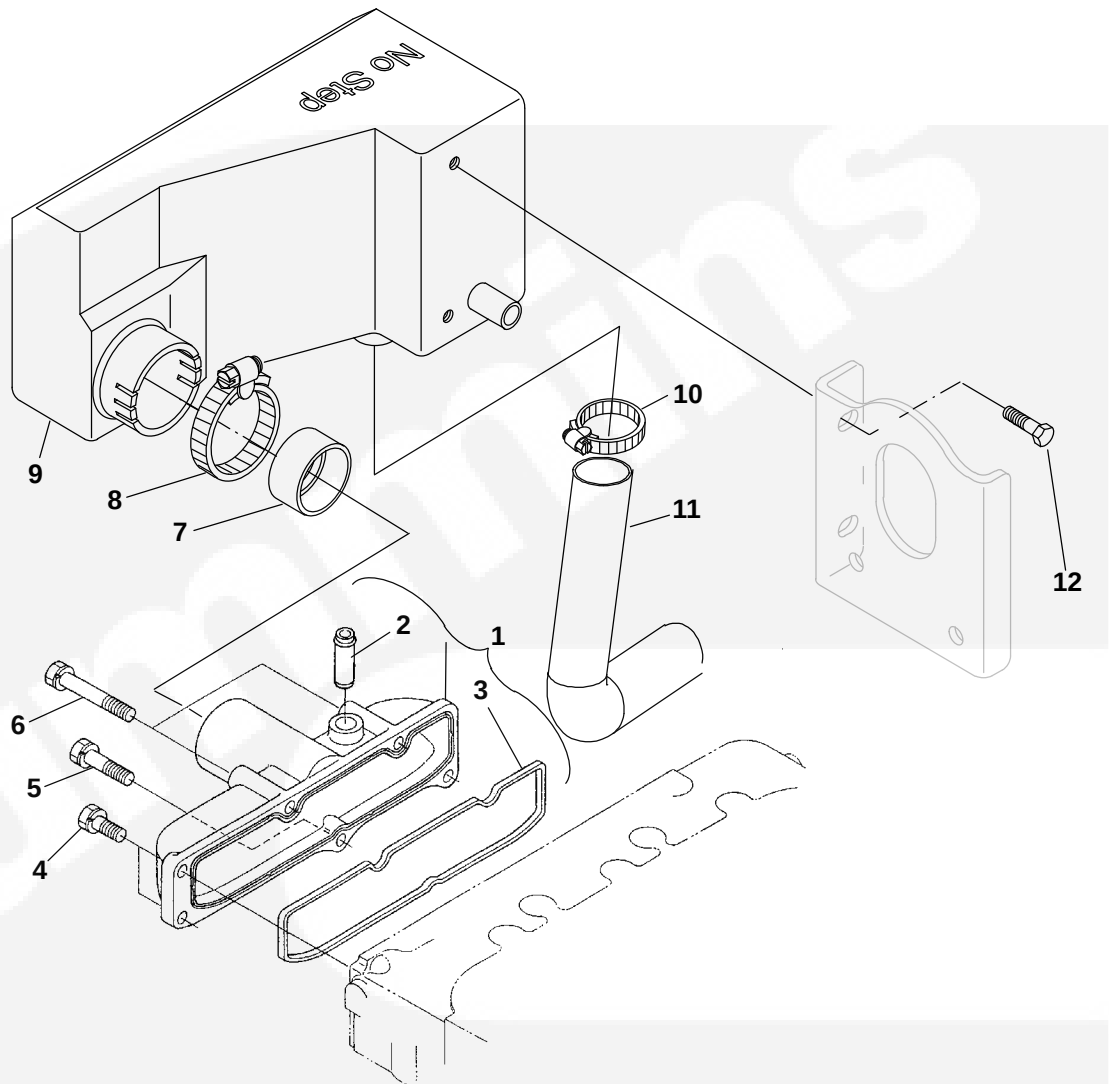
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
8	505-0395	1	Reducer, Bushing (1/8" NPSF)
* - Sender Included in Sender Kit Listed on Water Flange Page.			
+ - Sender Included in Isolated Ground Kit Listed on Isolated Ground Page.			

Oil Pan



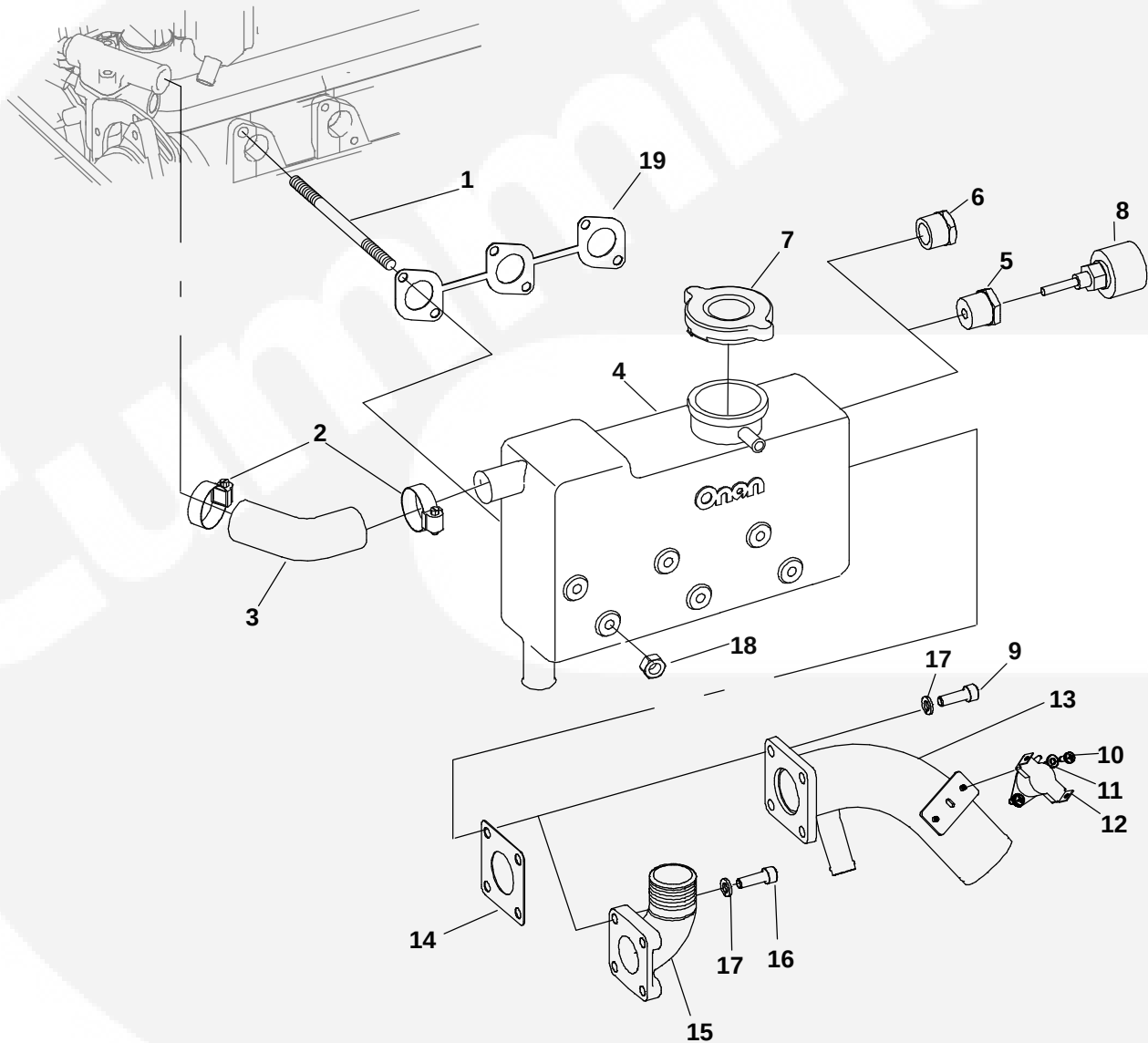
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7213	1	Pan, Oil	5	185-6762	1	Bolt
2	185-7214	1	Gasket, Oil Pan	6	185-7421	1	O'Ring
3			Bolt	7			Plug
	185-2389	22	Spec A		185-2096	1	Spec A
	800-6370	22	Begin Spec C		505-2318	1	Begin Spec C
4			Tube, Oil Pickup	8			Gasket
	185-7215	1	Spec A		185-2343	1	Spec A
	120-1361	1	Begin Spec C		509-0428	1	Begin Spec C

Resonator



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1			Manifold, Intake (Includes Gasket)	8	503-1141	1	Clamp, Hose
	185-6927	1	Spec A	9	140-3078	1	Resonator, Intake
	154-3204	1	Begin Spec C	10			Clamp, Hose
2	185-6499	1	Joint, Breather Pipe		503-0976	2	Spec A
3	185-6926	1	Gasket		503-1137	2	Begin Spec B
4	185-2389	3	Screw, Hex Head (M6 x 18mm)	11			Hose, Air Intake (1.25" ID)
5	185-6677	1	Screw		503-2070	1	Spec A
6	185-7069	2	Screw, Hex Head (M6 x 50mm)		503-2202-02	1	Begin Spec B
7	140-2898	1	Sleeve, Air Intake	12	821-6002-02	2	Screw, Hex Head Sems (M6 x 12)

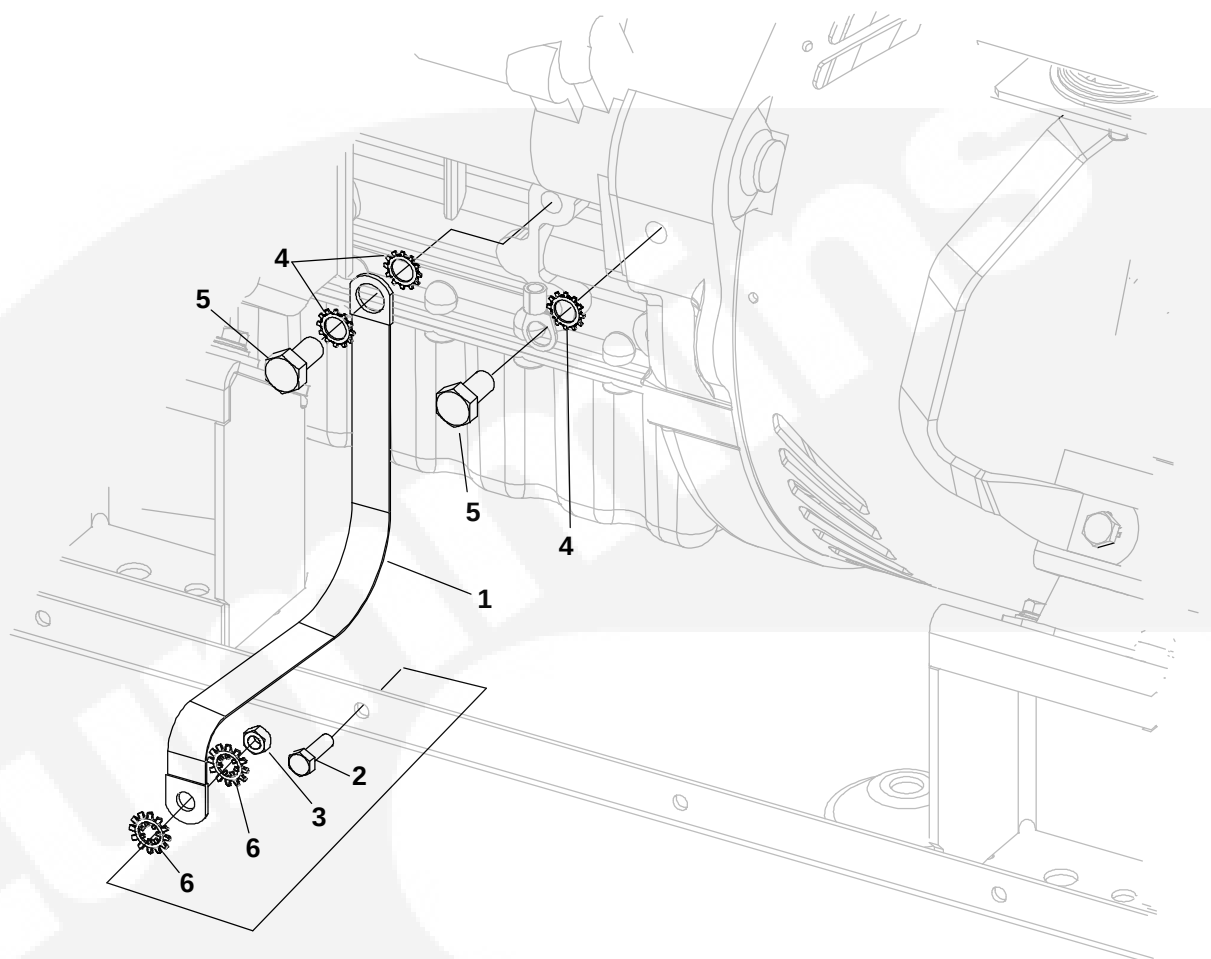
Exhaust Manifold



Exhaust Manifold

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	155-3146	1	Kit, Dry Exhaust (Includes Gasket, Elbow, Screws and Washers)	9	725-1051	4	Screw, Socket Head Cap (E086) (M8 x 1.25 x 25mm)
	300-4686-01	1	Kit, Low Coolant Sender (Includes Sender and Bushings)	10	815-0862	2	Screw, Pan Head Cross Recessed (E086) (M4 x 0.7 x 10mm)
1	185-7110	6	Stud, Exhaust Manifold	11	526-0003	2	Washer, Flat
2	503-1137	2	Clamp, Hose	12	309-0295-01	1	Switch, Temperature (E086) (S5)
3	503-2046	1	Hose, Coolant	13	155-3261-02	1	Mixer (E086)
4	154-3020-01	1	Manifold Assy (Includes Filler Neck)	14	185-6853	1	Gasket (Exhaust Out)
5	502-0029-06	1	Bushing, Reducer (3/4-1/4") (H549)	15	155-2666-01	1	Elbow, Exhaust (A148)
6	502-0820	1	Plug, Pipe (3/4 NPT)	16	800-3017-21	4	Screw, Hex Head Cap (M8 x 1.25 x 30mm) (A148)
7	130-3721	1	Cap, Manifold	17	850-0114-54	4	Washer, Lock (M8)
8	193-0468	1	Sender, Low Coolant (S3) (H549)	18	185-6699	6	Nut, Hex Flange (M7 x 1)
				19	185-6925	1	Gasket, Exhaust Manifold

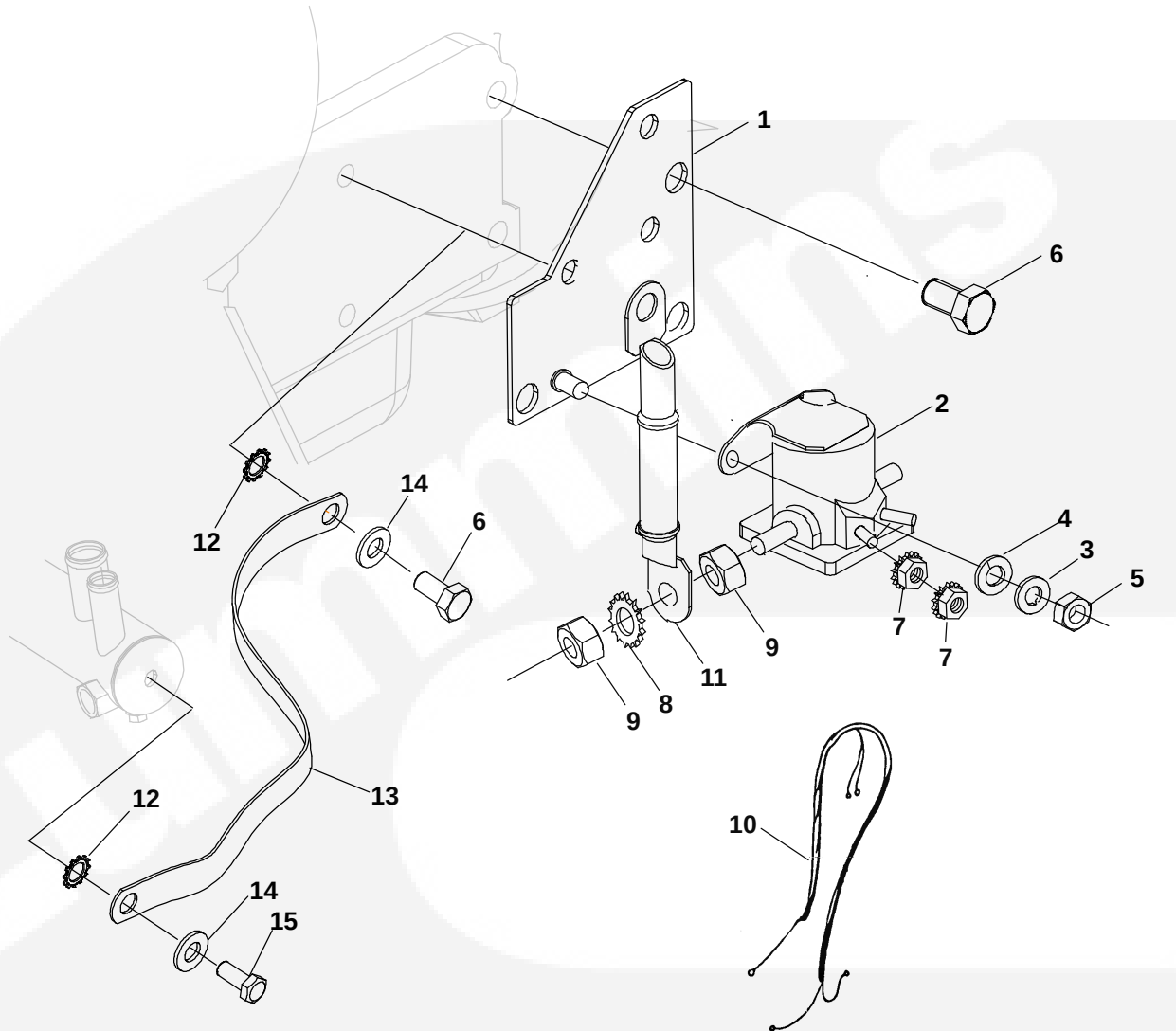
Grounding



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	337-2785	1	Strap, Bond
2	800-3017-04	1	Screw, Hex Head (M6 x 20mm)
3	862-0026-54	1	Nut, Hex (M6)
4	853-0040-56	3	Washer, ET Locking (M10)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
5	800-3030	2	Screw, Hex Head Cap (M10 x 1.25 x 20mm)
6	856-0006	2	Washer, ETIT Locking (1/4")

Isolation Ground

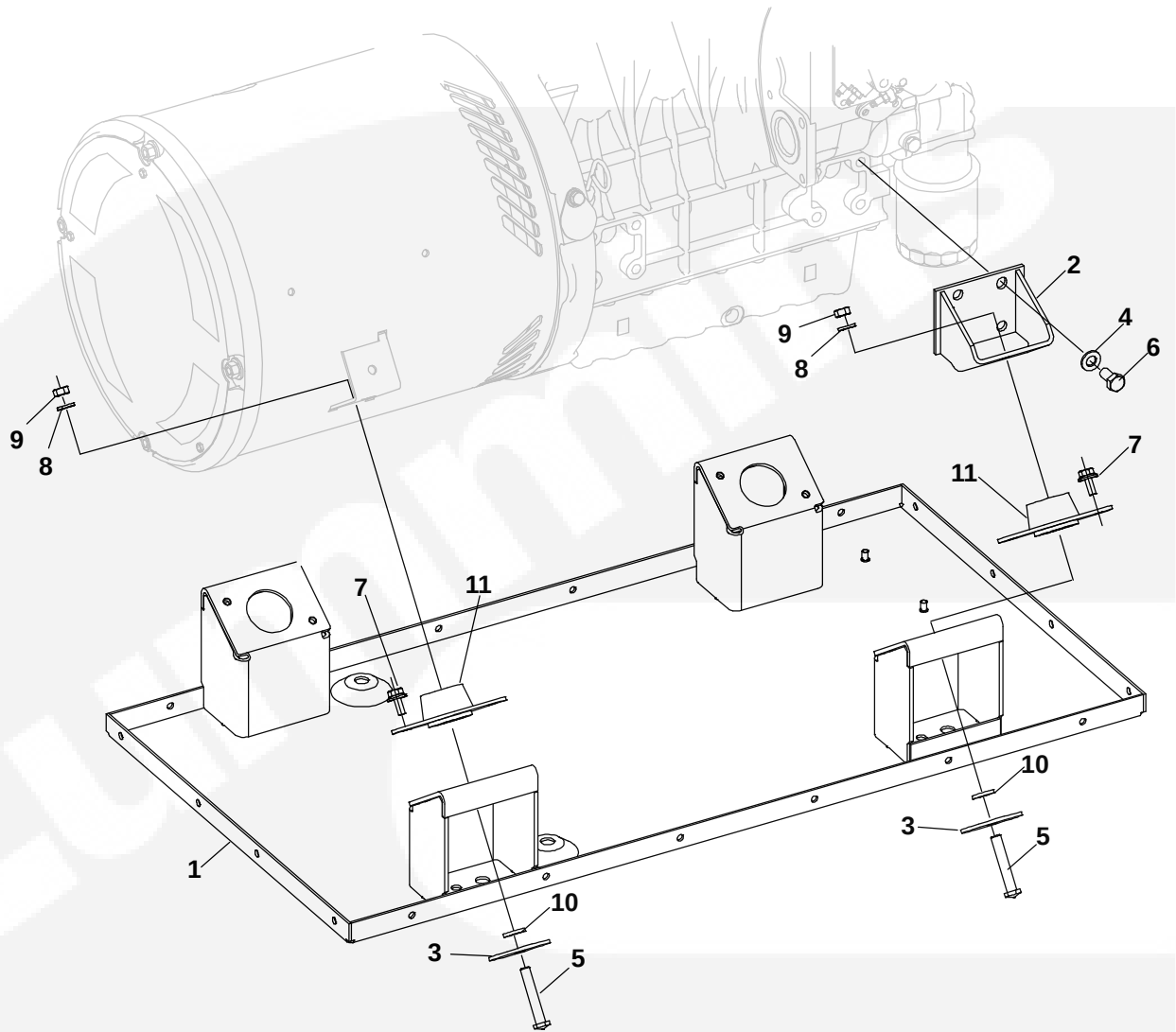


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Kit Isolated, Ground (Includes Screws, Sending Units and Harness)
	541-0823	1	12V
	541-0824	1	24V
1	333-0662-02	1	Bracket, Solenoid
2			*Relay, Solenoid
	307-1617	1	12V
	307-2656	1	24V
3	526-0399-58	2	Washer, Flat (M6)
4	850-0114-53	2	Washer, Split Lock (M6)
5	862-0026-54	2	Nut, Hex (M6)
6	800-3025	3	Screw, Hex Head Cap (M12 x 1.25 x 20)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
7	870-0131-01	2	Nut, ET Hex (#10-32) (12V)
8	853-0016	2	Washer, ET Lock (5/16")
9	862-0026-30	2	Nut, Hex (5/16-24)
10	338-4159	1	Harness, Isolated Ground
11	338-4200-02	1	Harness, Ground
12	853-2010	2	Washer, ET Lock (M10)
13	337-3466-01	1	Strap, Bond
14	526-2120	2	Washer, Flat (M10)
15	800-0026	1	Screw, Hex Head (5/16-10 x 3/4")

* - Relay Solenoid ties to B- and K9-1 Isolated Ground
Harness (338-4200-01)

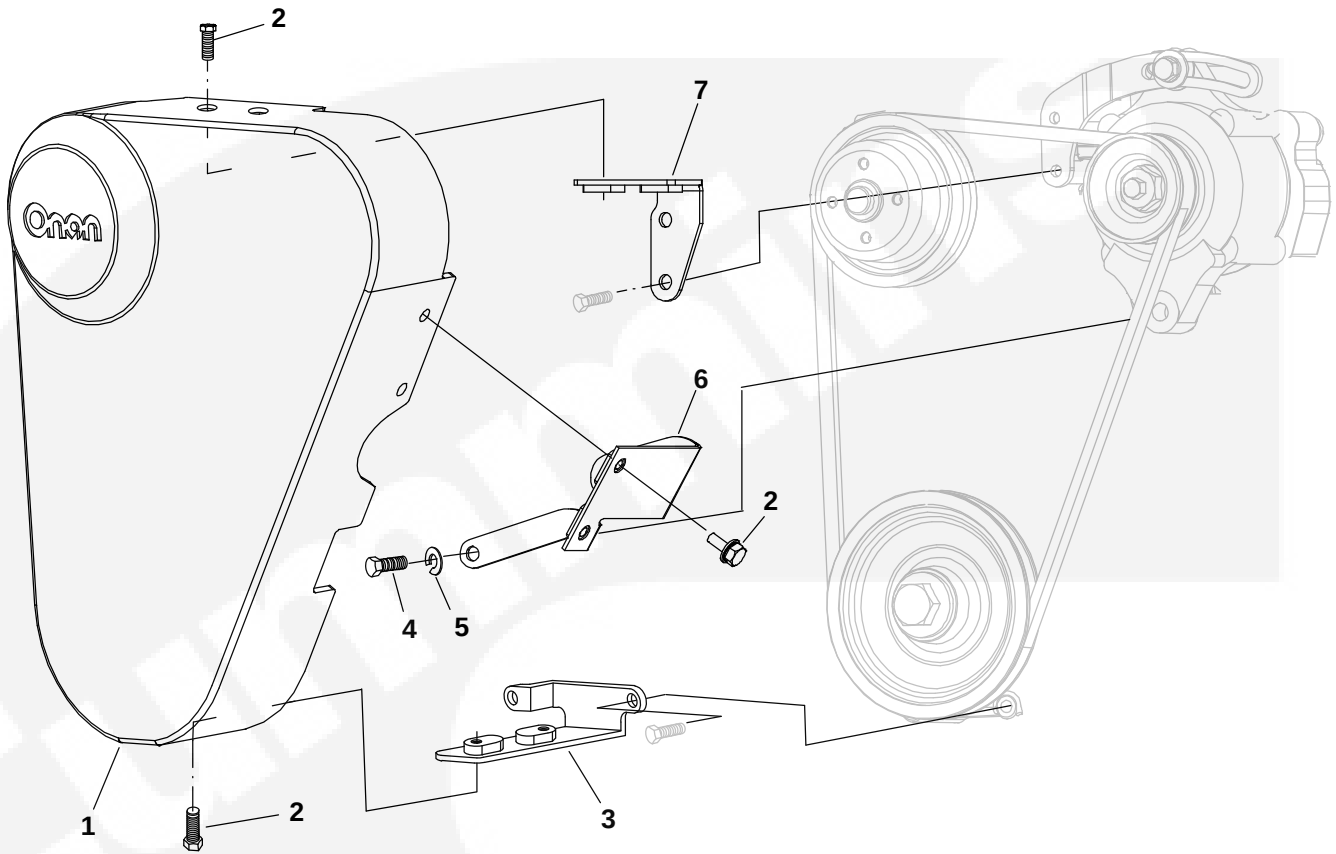
Mounting Base



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	403-4127-02	1	Base, Mounting
2	403-4168-04	2	Mount, Engine
3	526-0325	4	Washer, Flat
4	526-0399-62	8	Washer, Flat (M10)
5	800-0573	4	Screw, Hex Head Cap (3/8-16 x 2.25")
6	800-3030	8	Screw, Hex Head Cap (M10 x 1.25 x 20mm)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
7	821-6003-01	8	Screw, Hex Head Sems (M8 x 1.25 x 16mm)
8	850-0114-07	4	Washer, Lock (3/8")
9	862-0026-07	4	Nut, Hex (3/8-16)
10	526-0030	4	Washer, Flat
11	402-0728	4	Isolator, Vibration

Belt Guard

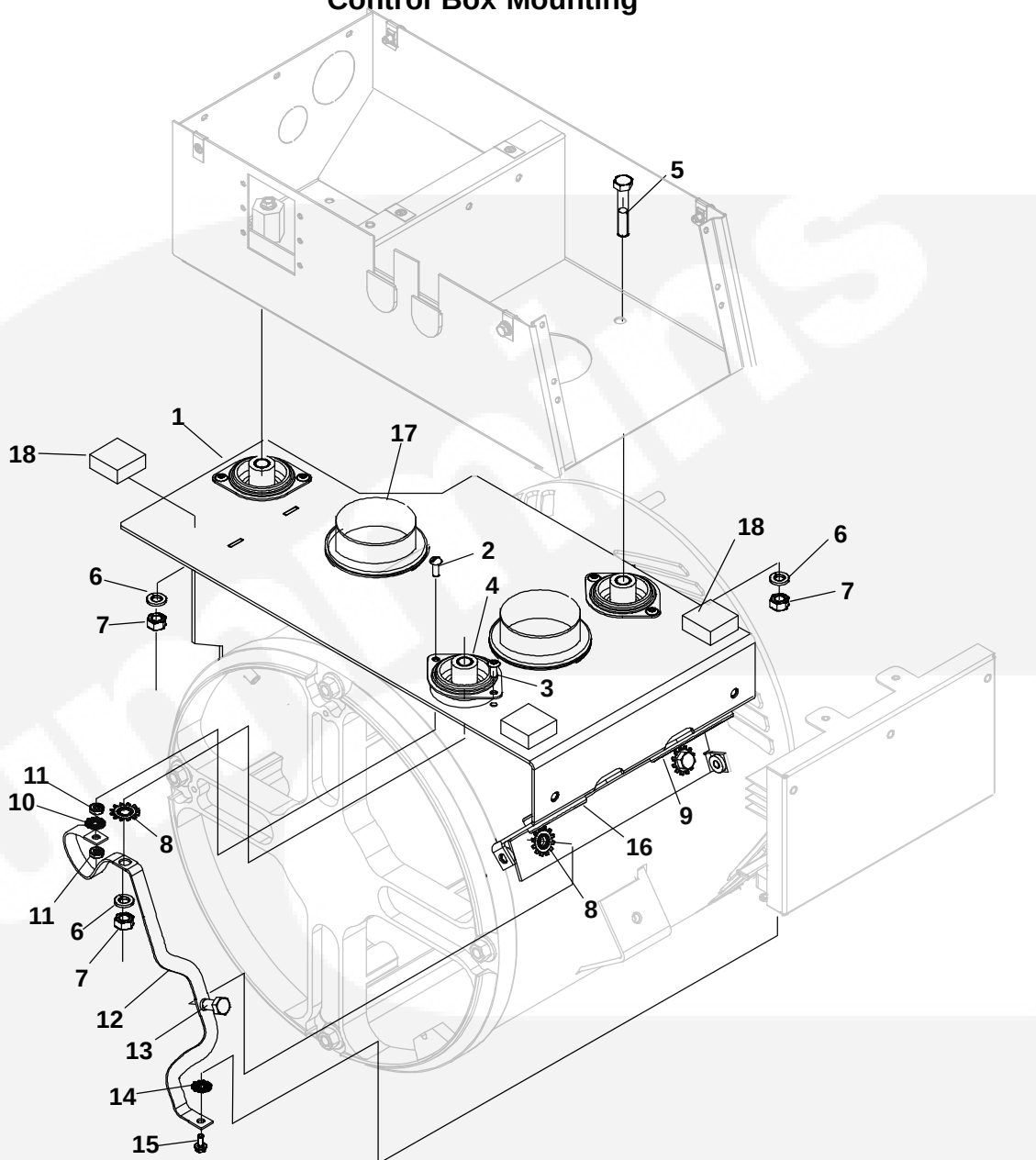


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	541-0590	1	Kit, Belt Guard	4	800-3017-02	1	Screw, Hex Head Cap (M6 x 1 x 12mm)
1	130-4870	1	Guard, Belt	5	850-0114-53	1	Washer, Lock (M6)
2	821-6002-02	6	Screw, Hex Head Sems (M6 x 1 x.12mm)	6	130-4945-03	1	Bracket, Belt Guard Side
3	130-4869-03	1	Bracket, Belt Guard Bottom	7	130-4847-03	1	Bracket, Belt Guard Top

“Blank Page”

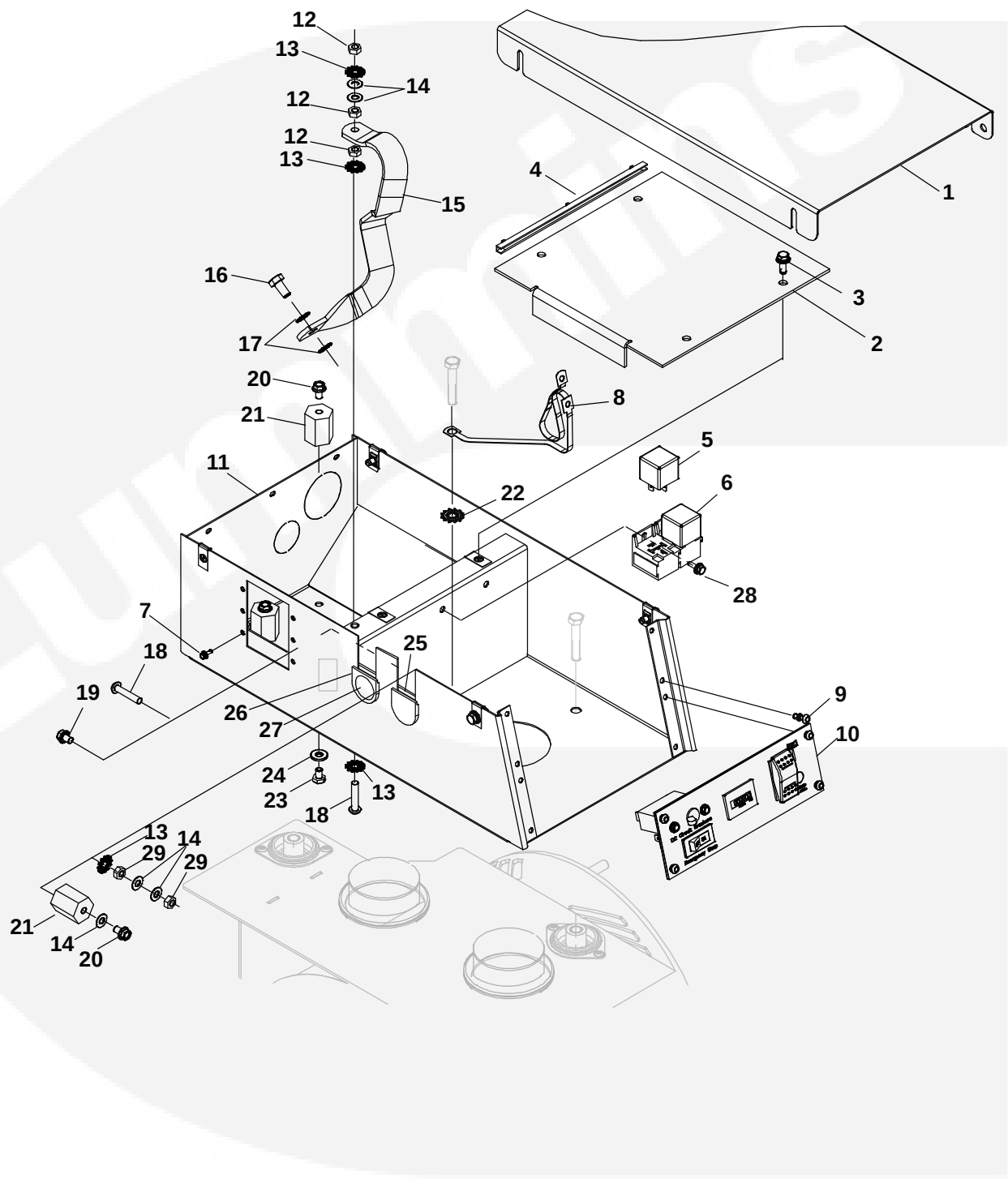


Control Box Mounting



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	319-4643-03	1	Saddle, Control	10	856-0003	1	Washer, ETIT Locking (#10)
2	813-0102	1	Screw, Round Head (10-32 x .62")	11	870-0131	2	Nut, Sems ET
3	818-0231-02	5	Rivet, Pop	12	337-3507	1	Strap, Bond
4	402-0681	3	Isolator, Vibration	13	815-0236	4	Screw, Hex Head (5/16-18 x 5/8")
5	800-6062	3	Screw, Hex Head (M8 x 1.25 x 45mm)	14	856-0002	2	Washer, ETIT Locking (#8)
6	850-2058	3	Washer Locking Split (M8)	15	800-3042	6	Screw, Hex Head (M4 x 0.7 x 10mm)
7	860-2058	3	Nut, Hex (M8 x 1.25mm)	16	508-1102	1	Grommet, Rubber
8	856-0008	6	Washer, ETIT Locking (5/16")	17	508-1152	2	Grommet, Rubber
9	508-0115	1	Grommet, Rubber	18	508-1192	3	Bumper, Control

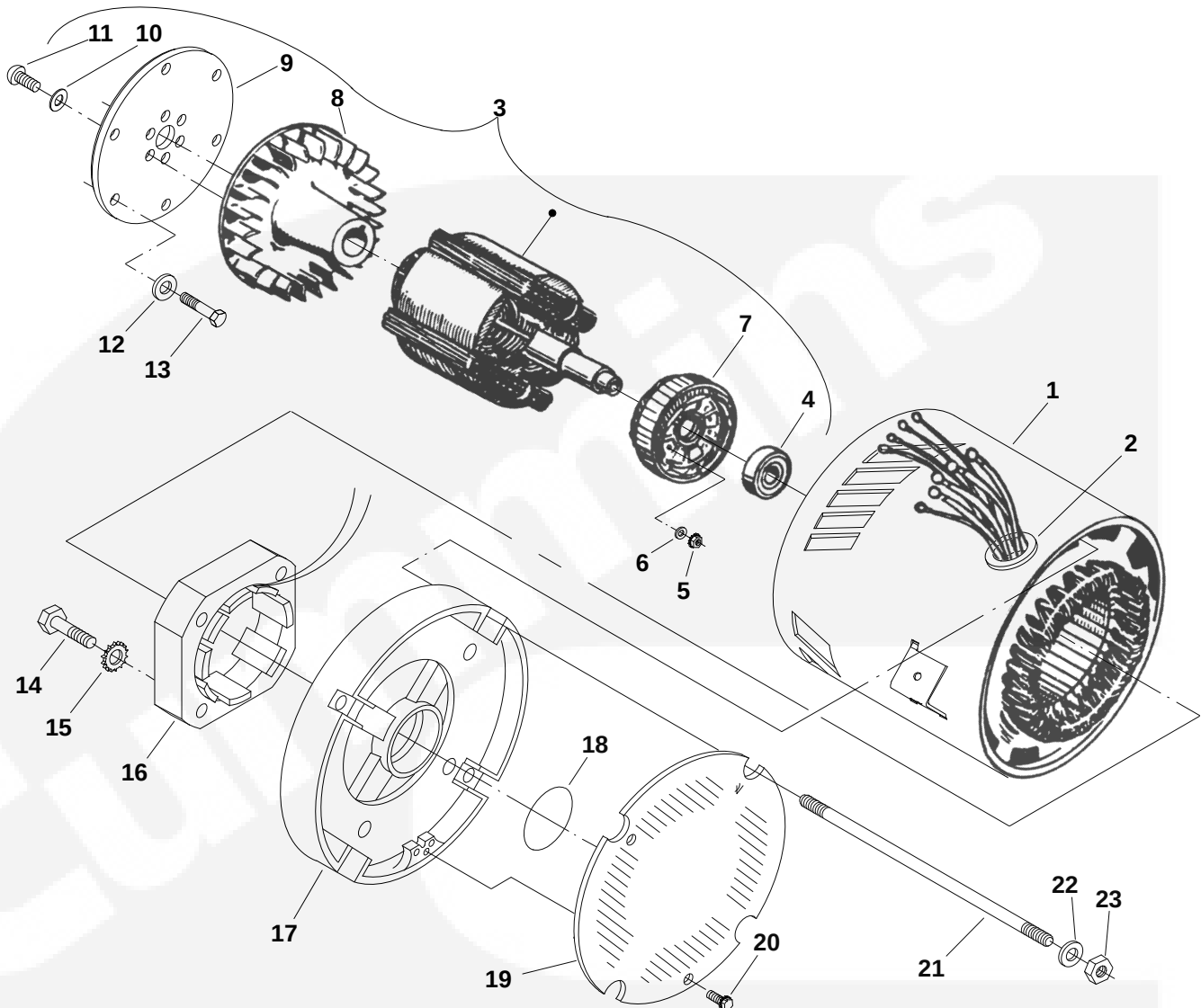
Control Box



Control Box

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	319-4737-03	1	Cover, Control	18	810-0155	2	Screw, Round Head (.25-20UMC x 1.25)
2	319-4738	1	Cover	19	821-0008	1	Screw, Lock Head Iso Ground (1/4-20UMC x3/8)
3	821-6006-01	8	Screw, Hex Head Sems Stainless (M6 x 1.0 x 16mm)	20			Screw, Lock Head (1/4-20UMC x3/8)
4	332-3750	1	Guide, Card				
5			Relay				
	307-2767	2	12V		821-0009	2	Neg, Single Phase
	307-2767	1	24V		821-0009	3	Neg 3 Phase
6	307-2819	1	Relay (24V)		821-0009	3	Single Phase ISO
7			Screw, Phillips Head XREC (#6-32 x .31")		821-0009	4	3 Phase ISO
	815-0550-01	4	Single Phase	21			Stand-Off
	815-0550-01	6	3 Phase		332-2370	2	Single Phase
8	337-3508	1	Strap, Bond		332-2370	3	3 Phase
9	818-1150-03	8	Rivet, Drive		332-2370	3	Single Phase ISO Ground
10			Panel, Engine (See Control Panel)		332-2370	4	3 Phase ISO Ground
11	319-5501-03	1	Box, Control	22	856-0008	6	Washer, ET (5/16)
12			Nut Hex (.25-20)	23			Screw, Hex Dac
	871-0016	3	ISO Ground		800-0310-01	2	Single Phase
	871-0016	5	Ground		800-0310-01	3	3 Phase
13			Washer, ETIT Lock (1/4")	24			Strap, Bond
	856-0006	3	ISO Ground		526-0399-13	2	12V
	856-0006	4	Ground		526-0399-13	3	24V
14			Nut, Hex (5/16-18)	25	508-1105-01	1	Grommet, Rubber
	526-0052	3	ISO Ground	26	508-1105	1	Grommet, Rubber
	526-0052	4	Ground	27	517-0136	1	Plug, Hole
15	337-2795	1	Strap, Bond	28	821-6001-03	2	Screw, Hex Head Sems (M5 x0.8 x 12mm)
16	800-3017-18	1	Screw, Hex Head Sems (M8 x 1.25 x 16mm)	29	871-0016	4	Nut, Hex Head (.25-20)
17	853-0016	2	Washer, ET (5/16)				

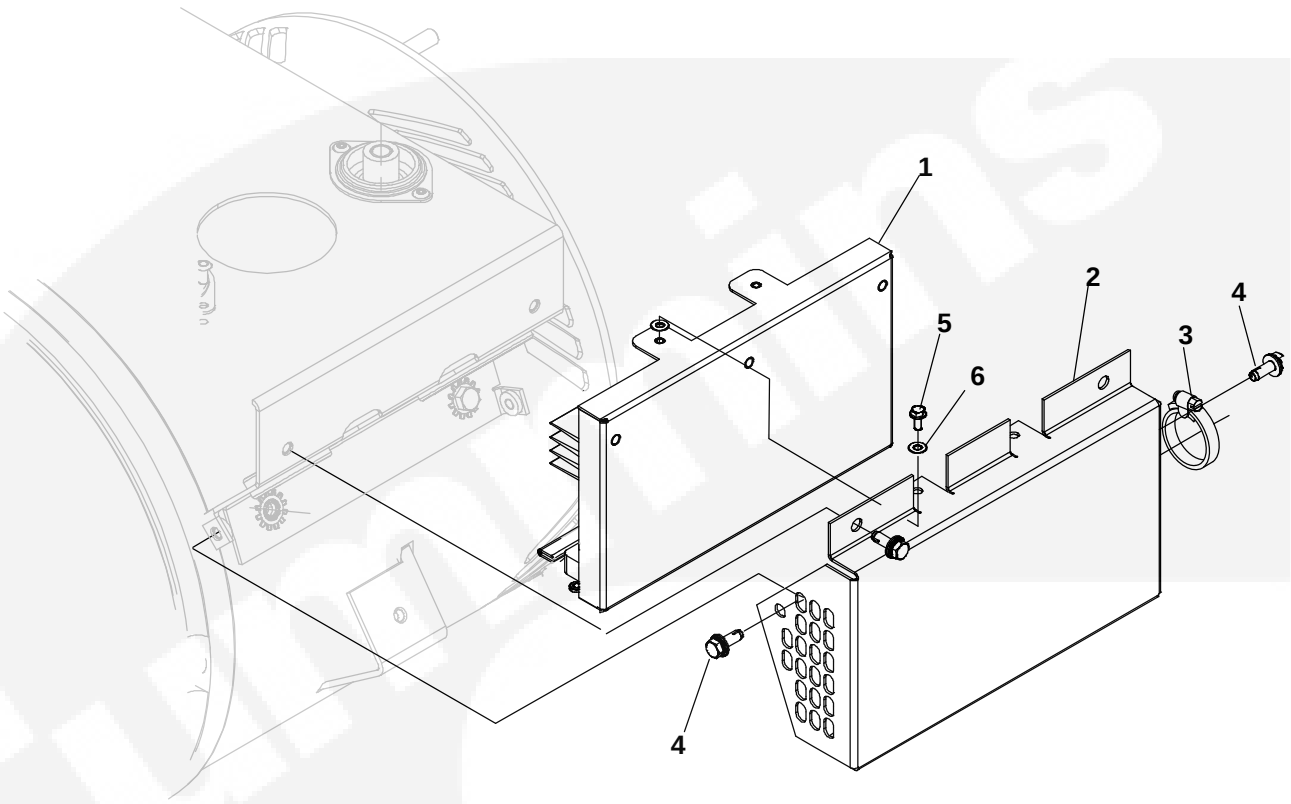
Generator



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	200-1298-01	1	Stator, Generator (Includes Grommet)	14	815-0181	4	Screw, Hex Head Thread Form (1/4")
2	508-0183	1	Grommet	15	853-0013	4	Washer, Lock ET (1/4")
3	201-3565-01	1	Rotor Assy, Generator (Includes Parts Marked *)	16	220-4413-02	1	Stator, Exciter
4	510-0112	1	*Bearing, Ball	17	211-0465-02	1	Endbell
5	870-0131-01	2	*Nut, ET Hex (#10-32)	18	509-0094	1	Seal, O'Ring
6	526-0399-11	2	*Washer, Flat (#10)	19	234-1016-04	1	Cover, Endbell
7	201-3515-02	1	*Rotor, Exciter	20	821-5000-05	3	Screw, ET Hex Head Thread Cutting (#10-32 x 1/2")
8	205-0255	1	*Fan, Generator	21	520-1002-06	4	Stud
9	232-2826	1	*Disk, Rotor Drive	22	526-0399-42	4	Washer, Flat (.375")
10	526-0399-42	6	*Washer, Flat (3/8")	23	862-0026-07	4	Nut, Hex (3/8-16")
11	815-0917-04	6	*Screw, Button Head Torx (3/8-16 x 1")				
12	526-0399-41	6	Washer, Flat (.312)				
13	800-2054	6	Screw, Hex Head Cap (M8 x 1.25 x 14mm)				

* - Parts Included in Rotor Assy.

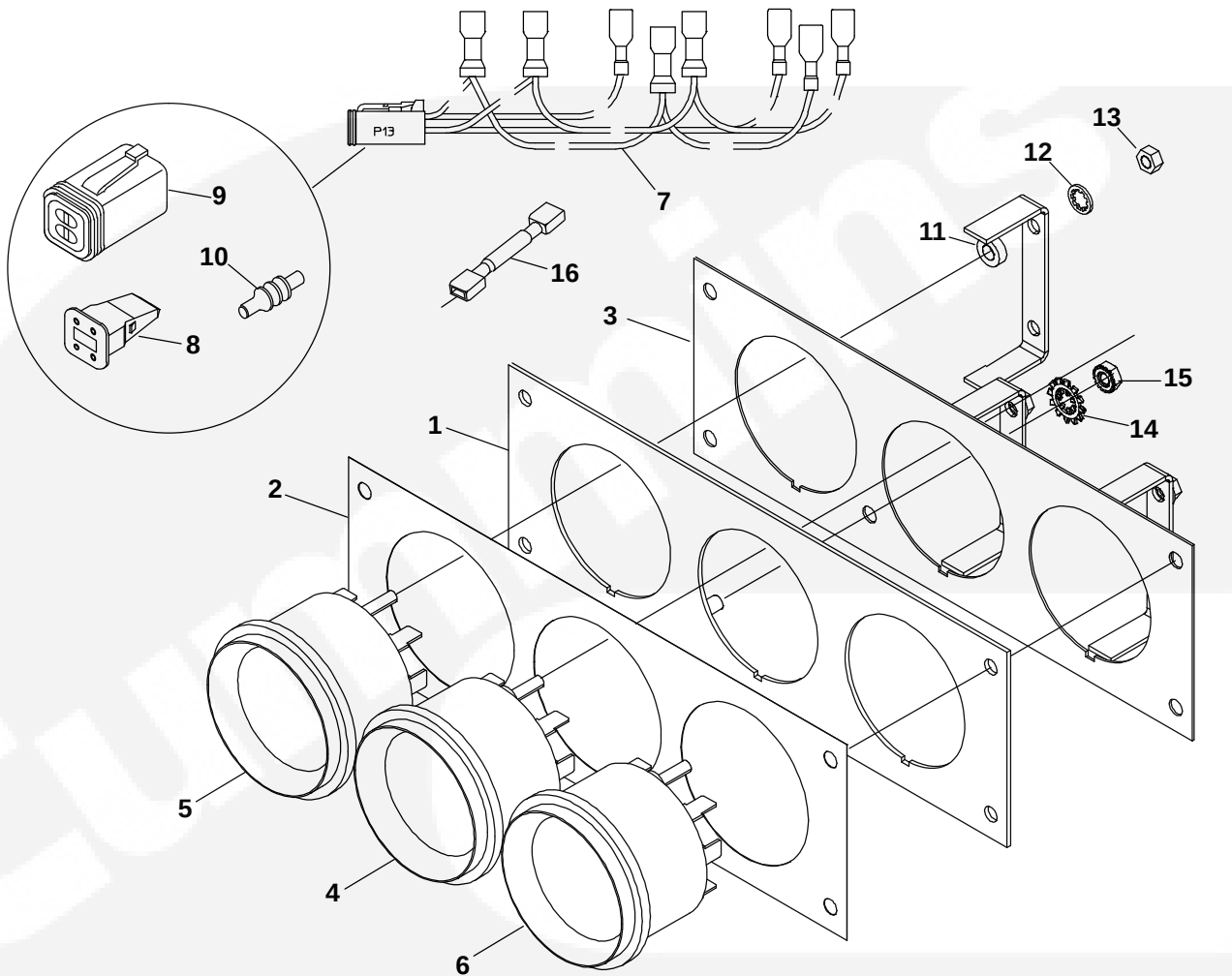
PCB Mounting



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	327-1386	1	PCB, Control Spec A
	327-1533	1	Spec B
2	319-4641-03	1	Cover, Control
3	503-1137	1	Clamp, Hose
4	821-6006-01	5	Screw, Hex Head Sems Stainless (M6 x 1 x 16mm)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
5	800-3042	4	Screw, Hex Head (M4x 0.7 x 10mm)
6	526-2050	4	Washer, Flat (M4)

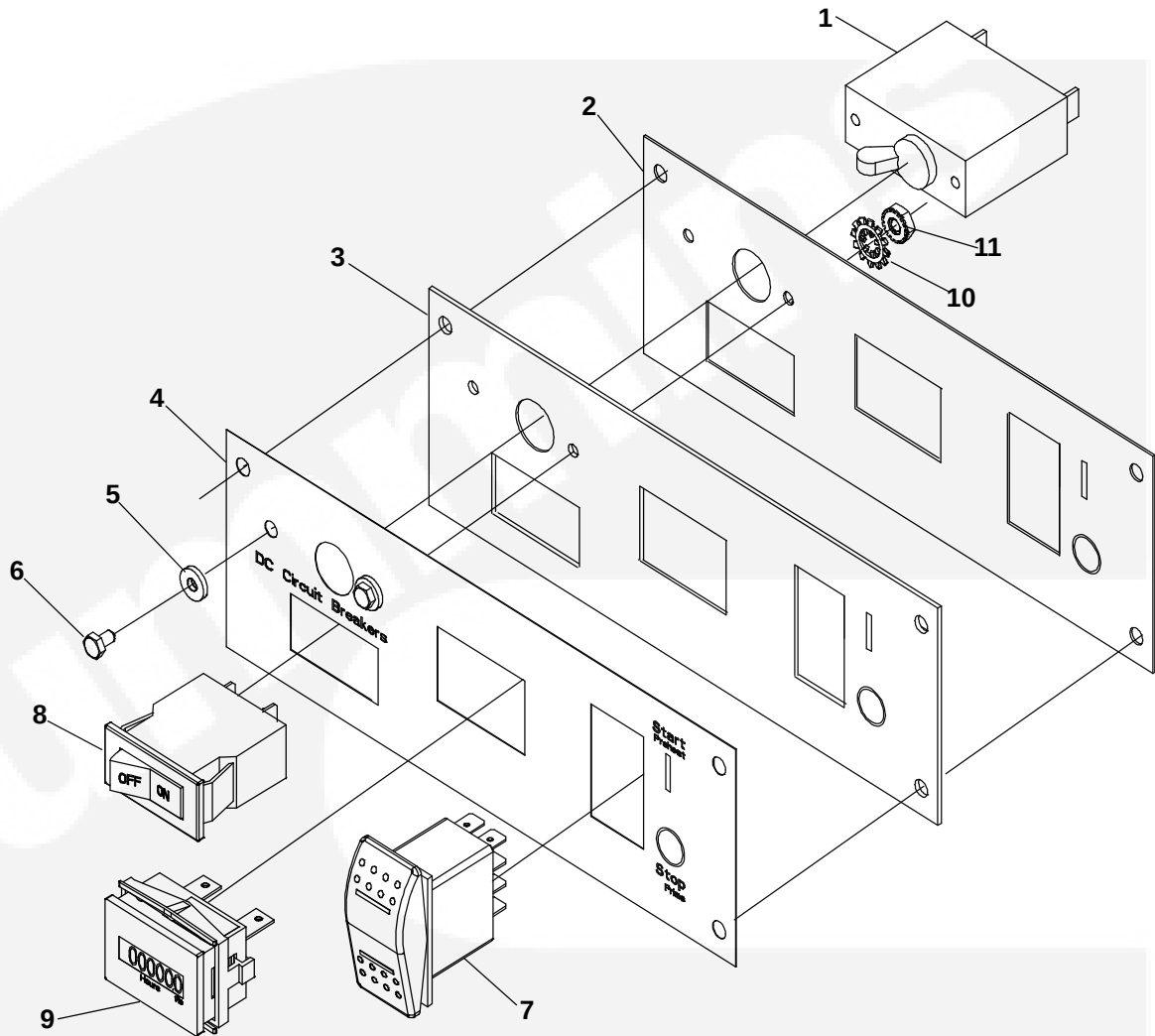
Gauge Panel Components



QTY NO.	PART NO.	REF USED	PART DESCRIPTION	QTY NO.	PART NO.	REF USED	PART DESCRIPTION
			Kit, Gauge Panel (Includes Parts Marked *)	8	323-1548	1	Wedge, Plug
	541-1206-01	1	12V	9	323-1546	1	Connector, Plug
	541-1206-02	1	24V	10	323-1492	4	Terminal, Pin
1	319-4368-05	1	*Panel, Control	11	526-0409	6	*Washer, Nylon (M4)
2	98-7845	1	*Label, Control	12	850-0114-51	6	*Washer, Lock (M4)
3	319-4467-01	1	*Panel, Control (GND)	13	860-2025	6	*Nut, Hex (M4 x 0.7)
4	302-2087	1	*Meter, Water Temp	14	856-0003	1	*Washer, ETIT Lock (#10)
5	302-2088	1	*Meter, Oil Pressure	15	870-0131	1	Nut, Sems ET
6			*Voltmeter	16			Resistor (24V only)
	302-2051-01	1	12V		304-0835-04	1	620 Ohms
	302-2051-02	1	24V		304-0835-03	1	330 Ohms
7	338-4010	1	*Harness, Gauge Panel (Includes Connector, Wedge and Plug)				

* - Parts Included in Gauge Panel Kit.

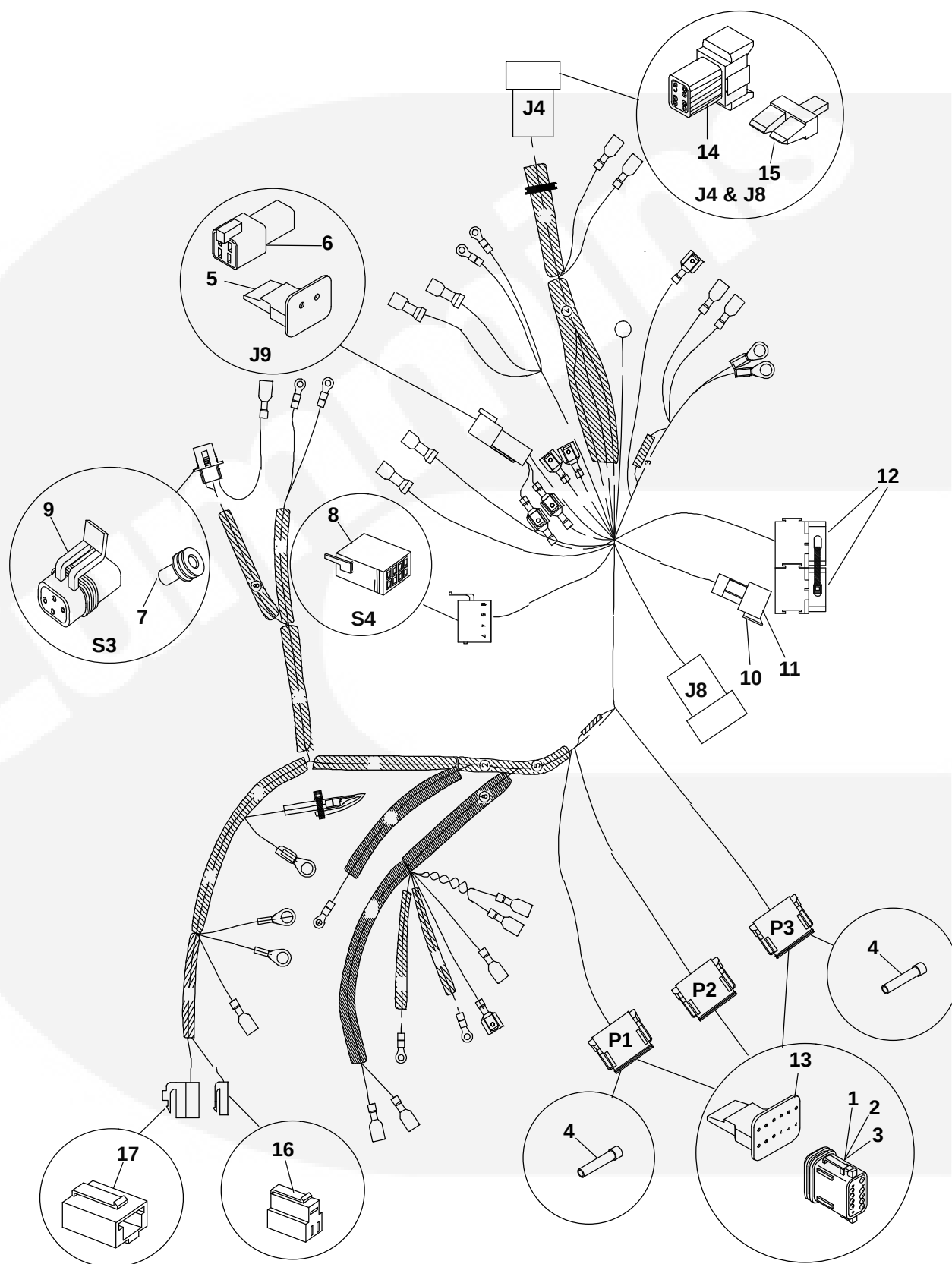
Control Panel



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	300-5476-01	1	Panel ,Control 12V	8	320-1140	1	Breaker, Circuit (15 Amp)
	300-5476-02	1	Panel ,Control 24V	9	302-2048	1	Meter, Hour
1	320-1862-01	1	Breaker, Circuit (50 Amp)	10	856-0003	1	Washer, EIT Lock (#10)
2	319-4467-02	1	Panel, Control (Ground)	11	870-0131	1	Nut, Sems EIT
3	319-4368-06	1	Panel, Control	12	-	1	See Control Harness for Details
4	98-7781	1	Label, Control				
5	526-0399-05	2	Washer, Flat (#6)				
6	800-0309-10	2	Screw, Hex Head (6-32 x 1/4")				
7			Switch, Rocker SPDT				
	308-1102	1	24VDC				
	308-1101	1	12VDC				

* - See Control Box for Location.

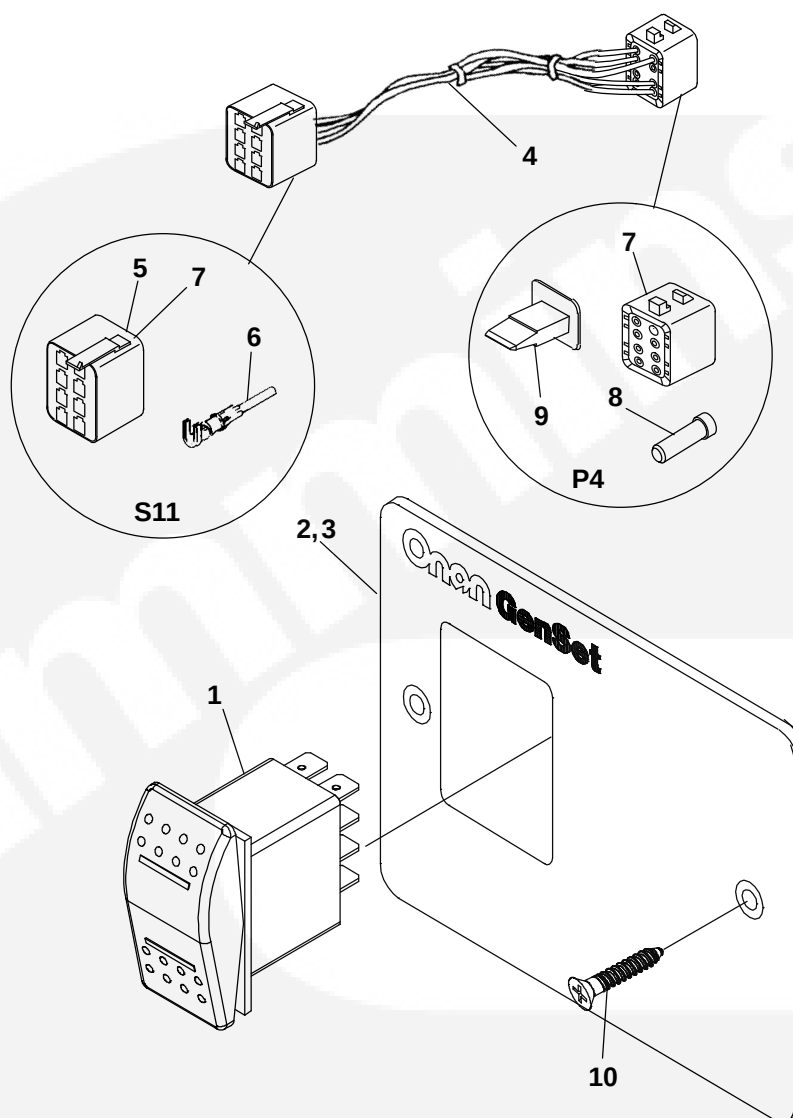
Control Harness



Control Harness

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	338-4005	1	Harness, Control	10	323-1494	1	Connector, Receptacle 3 Pin
1	323-1582-06	1	Plug (12 Pin, Black P1)	11	323-1502	1	Wedge
2	323-1582-07	1	Plug (12 Pin, Gray P2)	12	323-1563	2	Socket, Relay
3	323-1582-05	1	Plug (12 Pin, Green P3)	13	323-1583	3	Plug, Wedge 12 Pin, P1, P2, P3
4	323-1591	AR	Plug (P1, P3)	14	323-1542	2	Connector, Receptacle 8 Pin (J4, J8)
5	323-1549	1	Receptacle 4 Pin (J9)	15	323-1544	2	Receptacle, Wedge(J4, J8)
6	323-1547	1	Receptacle, Wedge (J9)	16	323-1791	1	Connector, Plus 1 Pos
7	323-1708	AR	Seal,Cable(S3)	17	323-1792	1	Connector, Plus 3 Pos
8	308-1019	1	Switch, Connector (S4)				
9	323-1765	1	Connector, Housing 4 Pin (S3)				

Remote Control Panel



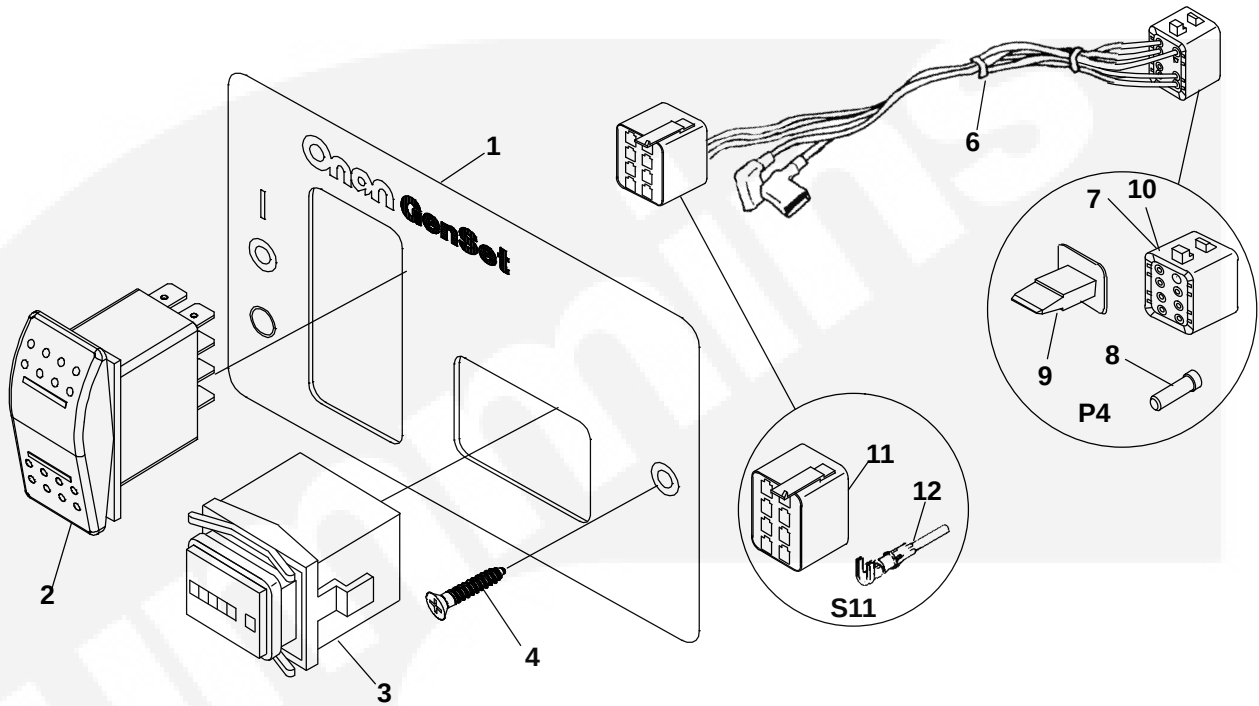
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Kit, Panel Remote (Includes Parts Marked #)	5	308-1019	1	*Connector, Switch (S11)
	300-5725-01	1	12V	6	332-2890	6	*Terminal, Receptacle (.25")
	300-5725-02	1	24V	7	323-1492	6	*Pin, Contact
			Kit, Remote Switch Harness (Includes Parts Marked+)	8	323-1591	3	*Plug, Seal
	541-0941-01	1	12V	9	323-1543	1	*Wedge, Plug (8 Pin)
	541-0941-02	1	24V	10	815-0910	2	#Screw, Wood (#6 x 1)
1			+#Switch, Rocker (S11)	11	98-8081	1	+#Label, Warning
	308-1101	1	12V				
	308-1102	1	24V				
2	319-4996	1	#Panel, Remote (Includes Printing)				
3	98-8092	1	+Label, Instruction				
4	338-3988	1	+#Harness, Remote Panel (Includes Parts Marked *)				

+ - Parts Included in Remote Switch Harness.

- Parts Included in Remote

* - Parts Included in Remote Panel Harness.

Remote Switch Panel w/Hour Meter

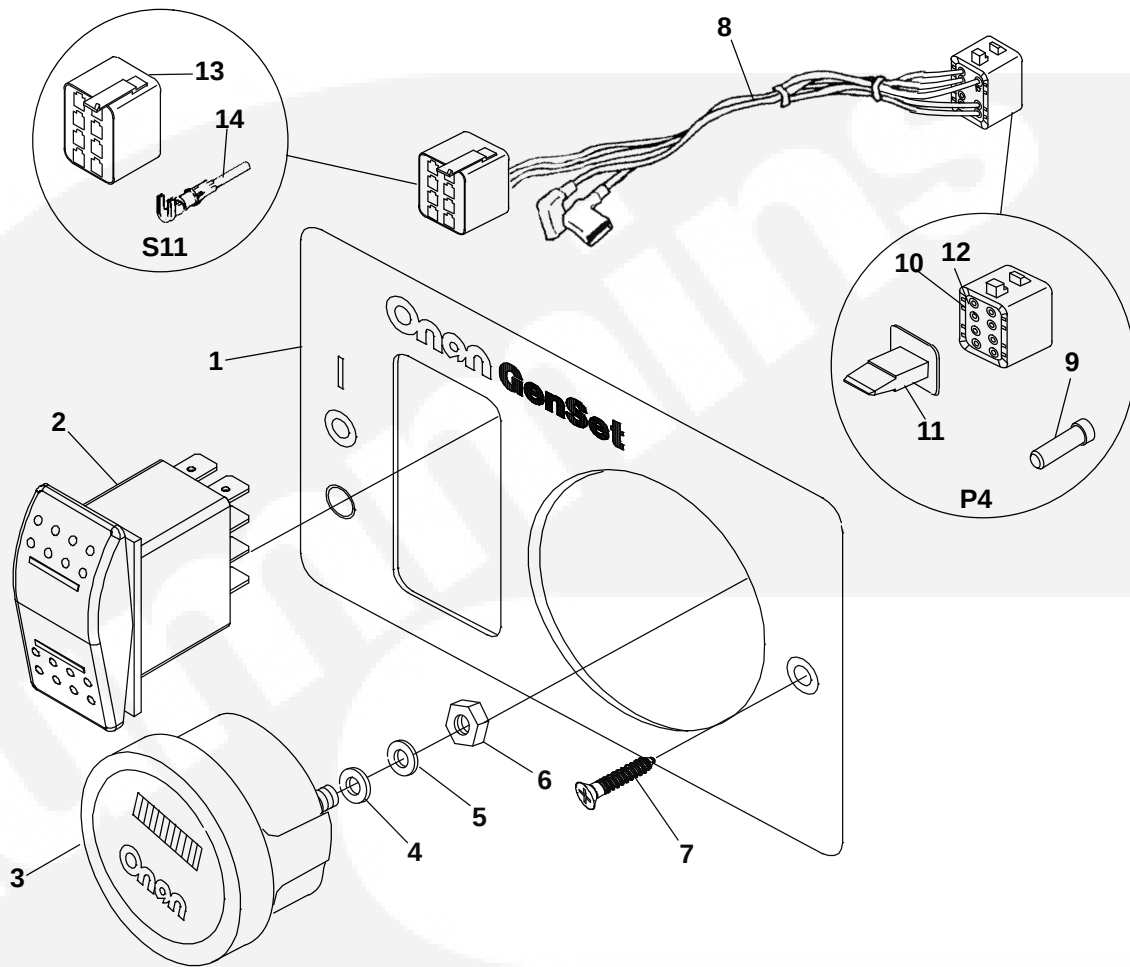


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Kit, Panel, Remote
	300-5727-01	1	12V
	300-5727-02	1	24V
1	319-4998	1	Panel, Remote Printed
2			Switch, Rocker (S11)
	308-1101	1	12V
	308-1102	1	24V
3	302-2048	1	Meter, Hour (M11)
4	815-0910	2	Screw, Wood (#6 x 1)
5	98-8081	1	Label, Warning
6	338-3990	1	Harness, Remote Panel (Includes Parts Marked *)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
7	323-1541	1	*Plug (8 Pin) (P4)
8	323-1591	2	*Plug, Seal
9	323-1543	1	*Wedge, Plug (8 Pin)
10	323-1492	6	*Pin, Contact
11	308-1019	1	*Connector, Switch (S11)
12	332-2890	6	*Terminal, Receptacle (.25")

* - Parts Included in Remote Panel Wiring Harness.

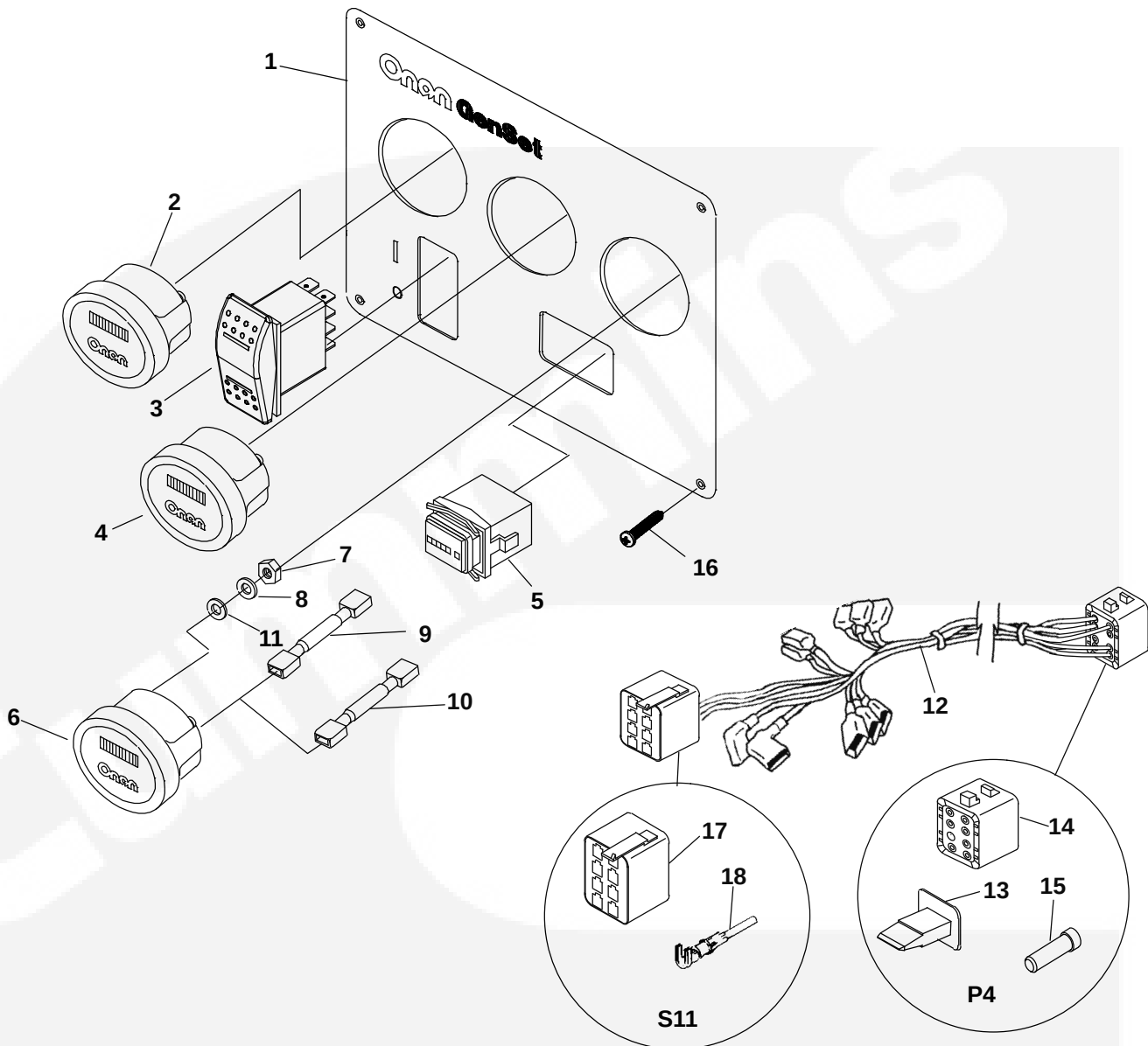
Deluxe Remote Control Panel w/Volt Meter



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Kit, Remote Panel	8	338-3990	1	Harness, Remote Panel (Includes Parts Marked *)
	300-5726-01	1	12V	9	323-1541	1	*Plug, (8 Pin) (J4)
	300-5726-02	1	24V	10	323-1591	2	*Plug, Seal
1	319-4997	1	Panel, Remote Printed	11	323-1543	1	*Wedge, Plug (8 Pin)
2			Switch, Rocker (S11)	12	323-1492	6	*Pin, Contact
	308-1101	1	12V	13	308-1019	1	*Connector, Switch (S11)
	308-1102	1	24V	14	332-2890	6	*Terminal, Receptacle (.25")
3			Meter, Volt (M14)	15	98-8092	1	Label, Instruction
	302-2051-01	1	12V (8-18V)	16	98-8081	1	Label, Warning
	302-2051-02	1	24V (16-36V)				
4	526-0409	2	Washer, Nylon				
5	850-0114-51	2	Washer, lock				
6	860-2025	2	Nut, Hex (M4 x .7)				
7	815-0910	2	Screw, Wood (#6 x 1)				

* - Parts Included in Remote Panel Wiring Harness.

Remote Switch and Gauge Panel

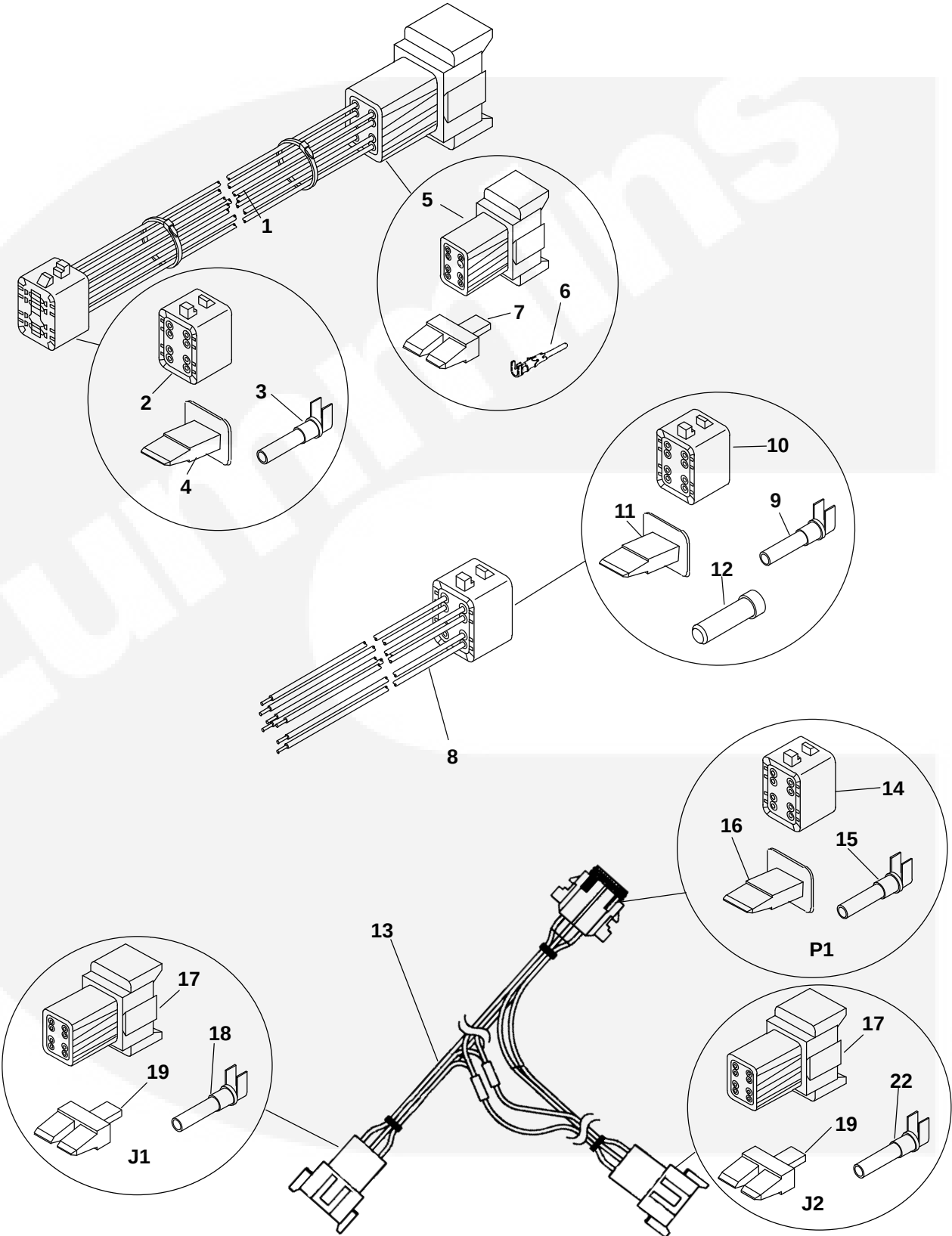


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	541-1207-01	1	Kit, Panel, Remote Gauge
	541-1207-02	1	12V
	541-1207-02	1	24V
1	319-3254-02	1	Panel, Remote
2	302-2088	1	Gauge, Oil Pressure (M12)
3	308-1101	1	Switch, Rocker (SPDT) (S11)
	308-1102	1	12V Sets
	308-1102	1	24V Sets
4	302-2087	1	Gauge, Water Temperature (M13)
5	302-2048	1	Meter, Running Time (M11)
6	302-2051-01	1	Meter, Volt (M14)
	302-2051-01	1	12V Sets (8-18V)
	302-2051-02	1	24V Sets (18-34V)
7	860-2025	6	Nut, Hex Head (M4 x .7)
8	850-0114-51	6	Washer, Lock
9	304-0835-03	1	Resistor (24V, 330 Ohms)

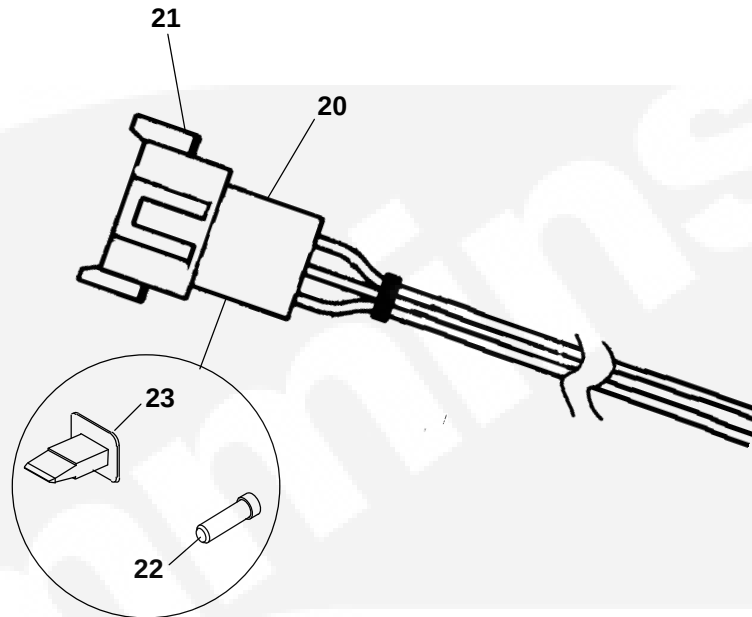
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
10	304-0835-04	1	Resistor (24V, 620 Ohms)
11	526-0409	6	Washer, Nylon
12	338-3989	1	+ Harness, Remote Panel (Includes Parts Marked +)
13	323-1543	1	+ Wedge, Plug (8 Pin)
14	323-1541	1	+ Plug (8 Pin) (P4)
15	323-1591	8	+ Pin, Contact
16	819-1156-01	4	Screw, Pan Head Sheet Metal (#8-15 x 1.00")
17	308-1019	1	+ Connector, Switch (S11)
18	332-2890	6	+ Terminal, Connector
19	98-7853	1	Label Control (Face)
20	98-7840	1	Label, Panel

+ - Parts Included in Remote Panel Harness

Wiring Harnesses



Wiring Harnesses



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1			Harness, Remote Extension (Includes Parts Marked #)	13	338-4016	1	Harness, Junction (Includes Parts Marked +)
	338-3167	1	15 feet	14	323-1541	1	±° Plug, Connector (8 Pin)
	338-3168	1	25 feet	15	323-1492	AR	±° Terminal, Socket
	338-3169	1	45 feet	16	323-1543	1	±° Wedge, Plug (8 Pin)
	338-3169-01	1	75 feet	17	323-1542	2	+ Connector, Receptacle (8 Pin)
	338-3169-02	1	100 feet	18	323-1491	AR	@ Terminal, Pin
	338-3169-03	1	150 feet	19	323-1544	2	+ Wedge, Lock, Receptacle (8 Pin)
2	323-1541	1	# Plug (8 Pin)	20	338-4017	1	Harness, Pigtail (Includes Parts Marked @)
3	323-1492	8	# Terminal, Socket	21	323-1542	1	@ Connector, Receptacle (8 Pin)
4	323-1543	1	# Wedge, Plug (8 Pin)	22	323-1491	AR	+ Terminal, Pin
5	323-1542	1	# Receptacle, (8 Pin)	23	323-1544	2	@ Wedge, Lock (8 Pin)
6	323-1491	8	# Terminal, Pin				
7	323-1544	1	# Wedge, Receptacle (8 Pin)				
8	338-3098	1	Harness, Pigtail (8") (Includes Parts Marked *)				
9	323-1492	7	* Terminal, Socket				
10	323-1541	1	* Plug (8 Pin)				
11	323-1543	1	* Wedge, Plug (8 Pin)				
12	323-1591	1	* Plug Connector				

- Parts Included in Remote Extension Harness.

* - Parts Included in Custom Pigtail Harness.

° - Parts Included in Adapter Harness.

.+ - Parts Included in Junction Harness.

.@ - Parts Included in Pigtail Harness.

Labels, Gasket, Kits

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
98-2235-02	1	1	Label, Ground	185-2349	2	2	Gasket, Oil Fill Plug
98-4798-01	1	1	Label, Warning (Rotating Parts)	185-2461	1	1	Seal, Oil
98-5338	1	1	Label, No Step	185-3078	1	1	Seal, O'Ring
98-5347	1	1	Label, Danger (High Voltage)	185-3080	2	2	Seal, O'Ring
98-5667	1	1	Label, Warning (Hot Pressurized Coolant)	185-5337	4	4	Gasket, Nozzle Holder
98-5755	1	1	Label, Warning (Hazardous Voltage)	185-5478	1	1	Gasket, Oil Pan
98-6074-02	1	1	Label, Warning	185-5641	4	4	Gasket, Delivery Valve
98-6074-12	1	1	Label, Warning (Operation, Maintenance and Service)	185-5643	4	4	Seal, O'Ring
98-7525	1	1	Label, Battery (B-)	185-5646	8	8	Seal, O'Ring
98-7781	1	1	Label, Control Panel (Control)				Gasket, Cylinder Head
98-7782	1	1	Label, Control (Onan Marine Genset)	185-5661	2	2	Gasket
98-7831	1	1	Label, (1 Meter, 1 Switch)	185-5663	1	1	Gasket
98-7838	1	1	Label, Deluxe Remote Panel	185-5691	1	1	Seal, O'Ring
98-7839	1	1	Label, Basic Remote Panel	185-5743	1	1	Seal, O'Ring
98-7841	1	1	Label, Indicator Lights	185-5835	2	2	Filter, Oil
98-7845	1	1	Label, Control (3 Meter)	185-5869	2	2	Seal, O'Ring
98-7850	2	2	Label (Onan e-QD)	185-6004	1	1	Gasket, Thermostat
98-7864	1	1	Label, Control Panel	185-6494	1	1	Seal, Oil
98-8040	1	1	Label, Information (Reconnect)	185-6498	2	2	Gasket, Valve Cover
98-8041	1	1	Label, Information (Service)	185-6510	1	1	Seal, Oil
100-3478-02	1	1	Kit, Cruise Includes All of The Following Items:	185-6511	1	1	Gasket, Bearing Case Cover
130-4434	2	2	Pencil, Zinc	185-6545	1	1	Seal, O'Ring
132-0379	2	2	Kit, Impeller	185-6579	1	1	Gasket, Pump Cover
149-2106	2	2	Filter, Fuel	185-6580	1	1	Gasket, Fuel Pump
417-0223	1	1	Box, Cruise Kits	185-6603	1	1	Gasket, Shaft Cover
185-2095	1	1	Seal, O'Ring	185-6701	1	1	Gasket, Intake Manifold
185-2284	5	5	Seal, O'Ring	185-6853	1	1	Gasket, Exhaust
185-2291	4	4	Gasket	185-6854	2	2	Gasket, Exhaust Manifold
185-2338	1	1	Seal, O'Ring	185-6863	1	1	Gasket, Gearcase
				185-6869	1	1	Gasket, Bearing Case
				185-6894	1	1	Gasket, Control Plate
				185-6922	11	11	Gasket, Water Flange
				185-6934	1	1	Belt
				185-7299	1	1	Gasket, Water Pump

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>
098-2235-02, 72		112-0303, 11		132-0369, 44		155-1002, 37	
098-4798-01, 72		114-0419, 11		132-0370, 44		155-2029, 37	
098-5338, 72		115-05121, 27		132-0371, 44		155-2030, 37	
098-5347, 72		120-1332-02, 47		132-0372, 44		155-2666-01, 51	
098-5667, 72		120-1361, 48		132-0373, 44		155-3146, 51	
098-5755, 72		123-2295, 27		132-0374, 44		155-3199, 43	
098-6074-02, 72		123-2296, 27		132-0375, 44		155-3216, 37	
098-6074-12, 72		123-2297, 27		132-0376, 44		155-3217, 37	
098-7525, 72		123-2298, 27		132-0377, 44		155-3218, 37	
098-7781, 63 , 72		123-2299, 27 , 28		132-0378, 44		155-3261-02, 51	
098-7782, 72		130-3570, 46		132-0379, 44 , 72		184-0071, 40	
098-7831, 72		130-3571, 46		132-0380, 44		185-2072, 24	
098-7838, 72		130-3572, 46		132-0462, 29		185-2076, 24	
098-7839, 72		130-3573, 46		140-2898, 49		185-2080, 24 , 25	
098-7840, 69		130-3574, 46		140-3078, 49		185-2095, 8 , 21 , 72	
098-7841, 72		130-3721, 51		149-1908-05, 38 , 39		185-2096, 48	
098-7845, 62 , 72		130-4434, 41 , 72		149-1914-01, 39		185-2115, 8	
098-7850, 72		130-4739-03, 41		149-1949, 39		185-2124, 28	
098-7853, 69		130-4740-02, 41		149-1952, 39		185-2170, 12	
098-7864, 72		130-4847-03, 55		149-1953, 39		185-2178, 12	
098-8040, 72		130-4869-03, 55		149-2045, 39		185-2179, 24 , 25	
098-8041, 72		130-4870, 55		149-2046, 39		185-2184, 24 , 25	
098-8081, 66 , 67 , 68		130-4945-03, 55		149-2047, 39		185-2188, 8 , 21	
098-8092, 66 , 68		130-4985-03, 41		149-2100, 36		185-2233, 8	
100-3478-02, 72		130-5169, 41		149-2106, 36 , 72		185-2284, 8 , 22 , 72	
100-3616-01, 8		130-5170, 41		149-2235, 36		185-2291, 26 , 27 , 72	
100-3616-02, 8		130-5176, 41		149-2312, 38		185-2338, 8 , 72	
100-3944-01, 8		130-5387-02, 43		149-2313, 38		185-2343, 48	
100-3944-02, 8		132-0358, 43 , 44		149-2331-01, 36		185-2345, 22	
102-1485, 47		132-0360, 44		149-2599, 36		185-2347, 17	
103-0834, 28		132-0361, 44		149-2601, 36		185-2349, 26 , 28 , 72	
105-0744, 10		132-0362, 44		149-2609-02, 36		185-2359, 17 , 28	
110-3827, 24 , 25		132-0363, 44		149-2612, 36		185-2365, 30	
110-3959, 25		132-0364, 44		149-2618-04, 36		185-2367, 8	
110-3960, 21		132-0365, 44		149-2654, 36		185-2380, 8	
110-3961, 21		132-0366, 44		149-2655, 36		185-2384, 26	
110-3966, 21		132-0367, 44		154-3020-01, 51		185-2385, 22	
112-0302, 11		132-0368, 44		154-3204, 49		185-2386, 16	

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>
185-2387, 10		185-5625, 19		185-5845, 8		185-6484, 28	
185-2388, 10 , 16 , 17 , 18 , 30 , 31 , 32		185-5639, 20		185-5869, 28 , 72		185-6485, 28	
185-2389, 16 , 31 , 48 , 49		185-5640, 20		185-5924, 9		185-6486, 28	
185-2390, 15		185-5641, 20 , 72		185-5938, 9		185-6487, 28	
185-2391, 15		185-5643, 20 , 72		185-5941, 9		185-6490, 28	
185-2403, 8		185-5644, 20		185-5942, 9		185-6491, 28	
185-2411, 21		185-5645, 20		185-5943, 9		185-6492, 28	
185-2412, 8		185-5646, 20 , 72		185-5959, 16		185-6493, 28	
185-2413, 21		185-5647, 20		185-5960, 16		185-6494, 72	
185-2461, 72		185-5649, 20		185-5985, 22		185-6498, 72	
185-2564, 12 , 31 , 32		185-5650, 20		185-6004, 28 , 30 , 72		185-6499, 26 , 49	
185-2572, 8 , 31 , 32		185-5652, 20		185-6005, 30		185-6500, 26	
185-2578, 19		185-5653, 20		185-6039, 8		185-6501, 26	
185-2658, 13		185-5654, 20		185-6040, 8		185-6503, 26	
185-3055, 27		185-5655, 20		185-6103, 27		185-6506, 15	
185-3078, 72		185-5658, 20		185-6121, 8		185-6507, 15	
185-3080, 28 , 72		185-5659, 20		185-6354, 14		185-6509, 15	
185-3093, 16		185-5661, 20 , 72		185-6358, 14		185-6510, 15 , 72	
185-4255, 17 , 18 , 19 , 28		185-5662, 20		185-6362, 14		185-6511, 72	
185-5337, 22 , 72		185-5663, 20 , 72		185-6365, 14		185-6512, 15	
185-5407, 26 , 28		185-5691, 72		185-6386, 13		185-6513, 15	
185-5421, 22		185-5714, 29		185-6394, 26 , 27		185-6516, 10	
185-5445, 31 , 32		185-5719, 29		185-6409, 12		185-6517, 10	
185-5478, 72		185-5741, 28		185-6441, 14		185-6519, 10	
185-5484, 8		185-5742, 28		185-6442, 14		185-6520, 10	
185-5486, 8		185-5743, 28 , 72		185-6445, 30		185-6521, 10	
185-5487, 8		185-5745, 29		185-6468, 8		185-6522, 10	
185-5490, 8		185-5771, 33		185-6469, 8		185-6523, 10	
185-5495, 47		185-5777, 33		185-6471, 8		185-6524, 10	
185-5502, 8		185-5782, 33		185-6472, 8		185-6525, 10	
185-5558, 10		185-5783, 33		185-6475, 21		185-6526, 10	
185-5560, 10		185-5784, 33		185-6476, 21		185-6531, 11	
185-5612, 22		185-5798, 19		185-6477, 21		185-6532, 11	
185-5615, 22		185-5820, 20		185-6479, 21		185-6533, 11	
185-5623, 19		185-5826, 30		185-6480, 28		185-6534, 11	
185-5624, 19		185-5833, 28		185-6481, 28		185-6535, 11	
		185-5835, 28 , 72		185-6482, 28		185-6536, 11	
		185-5843, 8		185-6483, 28		185-6537, 11	

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>
185-6538, 11		185-6612, 18		185-6759, 17 , 18 , 19		185-6904, 23	
185-6540, 9		185-6614, 17 , 18		185-6762, 48		185-6905, 23	
185-6541, 9		185-6615, 17 , 18		185-6785, 31 , 32		185-6906, 23	
185-6542, 9		185-6621, 22		185-6786, 31 , 32		185-6907, 23	
185-6543, 9		185-6629, 32		185-6816, 33		185-6908, 23	
185-6544, 9		185-6630, 31 , 32		185-6820, 33		185-6909, 23	
185-6545, 9 , 72		185-6631, 31 , 32		185-6845, 19		185-6910, 23	
185-6546, 9		185-6633, 31 , 32		185-6853, 51 , 72		185-6911, 23	
185-6547, 9		185-6665, 28 , 30		185-6854, 72		185-6912, 23	
185-6548, 9		185-6666, 30		185-6856, 8		185-6913, 23	
185-6549, 9		185-6667, 30		185-6857, 8		185-6914, 23	
185-6550, 9		185-6671, 29		185-6863, 28 , 72		185-6915, 23	
185-6551, 9		185-6672, 29		185-6864, 28		185-6916, 23	
185-6552, 9		185-6673, 29		185-6866, 8		185-6917, 23	
185-6553, 9		185-6674, 29		185-6867, 26		185-6918, 23	
185-6554, 9		185-6677, 29 , 49		185-6868, 26 , 27		185-6922, 30 , 72	
185-6555, 9		185-6681, 24 , 25		185-6869, 15 , 72		185-6923, 24	
185-6556, 9		185-6682, 24 , 25		185-6871, 15		185-6925, 51	
185-6558, 16		185-6683, 24 , 25		185-6873, 10		185-6926, 49	
185-6560, 16		185-6686, 24		185-6875, 16		185-6927, 49	
185-6561, 16		185-6687, 24 , 25		185-6876, 16		185-6933, 31 , 32	
185-6562, 16		185-6688, 24 , 25		185-6877, 16		185-6934, 31 , 32 , 72	
185-6565, 16		185-6689, 24 , 25		185-6878, 16		185-7004, 22	
185-6566, 16		185-6690, 24		185-6879, 16		185-7069, 28 , 49	
185-6567, 16		185-6691, 24 , 25		185-6880, 16		185-7082, 22	
185-6568, 16		185-6692, 24		185-6882, 19 , 20		185-7104, 12 , 13	
185-6569, 16		185-6693, 24 , 25		185-6884, 20		185-7105, 12 , 14	
185-6570, 16		185-6694, 24 , 25		185-6885, 20		185-7106, 22	
185-6571, 16		185-6695, 24 , 25		185-6886, 20		185-7107, 22	
185-6572, 16		185-6699, 51		185-6887, 20		185-7110, 51	
185-6573, 16		185-6701, 72		185-6888, 20		185-7212, 8	
185-6578, 8		185-6707, 20		185-6889, 8		185-7213, 48	
185-6579, 8 , 43 , 72		185-6721, 26		185-6894, 17 , 18 , 72		185-7214, 48	
185-6580, 19 , 72		185-6739, 19		185-6899, 22		185-7215, 48	
185-6584, 19		185-6740, 22 , 23		185-6900, 23		185-7216, 28	
185-6585, 19		185-6749, 19		185-6901, 23		185-7217, 12	
185-6588, 20		185-6750, 22		185-6902, 23		185-7218, 12	
185-6603, 72		185-6751, 22		185-6903, 23		185-7219, 12	

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>
185-7221, 12		185-7375, 21		300-5727-01, 67		320-1140, 63	
185-7222, 12		185-7376, 9		300-5727-02, 67		320-1862-01, 63	
185-7223, 8		185-7395, 25		302-2048, 63 , 67 , 69		323-1491, 71	
185-7225, 32 , 33		185-7417, 8		302-2051-01, 62 , 68 , 69		323-1492, 62 , 66 , 67 , 68 , 71	
185-7226, 32		185-7420, 8		302-2051-02, 62 , 68 , 69		323-1494, 65	
185-7227, 32		185-7421, 48		302-2087, 62 , 69		323-1502, 65	
185-7228, 33		185-7423, 28		302-2088, 62 , 69		323-1541, 67 , 68 , 69 , 71	
185-7229, 33		185-7425, 18 , 28		304-0796, 36		323-1542, 65 , 71	
185-7230, 13		185-7426, 27		304-0831-03, 36		323-1543, 66 , 67 , 68 , 69 , 71	
185-7231, 13		185-7429, 9		304-0835-03, 62 , 69		323-1544, 65 , 71	
185-7232, 13		185-7439, 25		306-5006-01, 40		323-1546, 62	
185-7233, 13		185-7441, 25		306-5006-02, 40		323-1547, 65	
185-7234, 13		191-2252, 14		307-1617, 53		323-1548, 62	
185-7235, 13		191-2275-02, 12		307-2656, 53		323-1549, 65	
185-7236, 13		191-2391, 31		307-2767, 59		323-1563, 65	
185-7237, 14		191-2392, 32		307-2819, 59		323-1582-05, 65	
185-7238, 14		193-0244, 47		308-1019, 65 , 66 , 67 , 68 , 69		323-1582-06, 65	
185-7239, 14		193-0318, 30		308-1101, 63 , 66 , 67 , 68 , 69		323-1582-07, 65	
185-7240, 14		193-0430-01, 47		308-1102, 63 , 66 , 67 , 68 , 69		323-1583, 65	
185-7256, 17 , 18		193-0457-01, 30		309-0295-01, 51		323-1591, 65 , 66 , 67 , 68 , 69 , 71	
185-7259, 17		193-0468, 51		309-0576, 30		323-1708, 65	
185-7260, 17		200-1298-01, 60		309-0601, 30		323-1765, 65	
185-7269, 30 , 31		201-3515-02, 60		309-0667, 43		323-1791, 65	
185-7270, 31		201-3565-01, 60		319-3254-02, 69		323-1792, 65	
185-7271, 31		205-0255, 60		319-4368-06, 63		327-1386, 61	
185-7272, 31		211-0465-02, 60		319-4467-01, 62		327-1533, 61	
185-7296, 14		220-4413-02, 60		319-4467-02, 63		332-2370, 59	
185-7298, 30		232-2826, 60		319-4641-03, 61		332-2890, 66 , 67 , 68 , 69	
185-7299, 29 , 72		234-1016-04, 60		319-4643-03, 57		332-3750, 59	
185-7300, 24 , 25		300-4686-01, 51		319-4737-03, 59		333-0662-02, 53	
185-7306, 15		300-5040, 30		319-4738, 59		333-0718, 8	
185-7308, 11		300-5041, 30		319-4996, 66		333-0719, 8	
185-7309, 11		300-5476-01, 63		319-4997, 68		337-2785, 52	
185-7310, 11		300-5476-02, 63		319-4998, 67		337-2795, 59	
185-7311, 11		300-5725-01, 66		319-5501-03, 59		337-3466-01, 53	
185-7372, 8		300-5725-02, 66					
185-7373, 21		300-5726-01, 68					
185-7374, 21		300-5726-02, 68					

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>
337-3507, 57		502-0055, 36		508-1105-01, 59		541-0941-01, 66	
337-3508, 59		502-0065, 36		508-1152, 57		541-0941-02, 66	
338-3098, 71		502-0153, 38 , 39		508-1192, 57		541-1206-01, 62	
338-3167, 71		502-0263, 47		508-1253, 11		541-1206-02, 62	
338-3168, 71		502-0820, 51		509-0094, 60		541-1207-01, 69	
338-3169, 71		502-0941, 36		509-0351, 41		541-1207-02, 69	
338-3169-01, 71		502-1123, 47		509-0428, 48		725-1027, 40	
338-3169-02, 71		502-1162, 36		509-0440, 29		725-1051, 51	
338-3169-03, 71		502-1245, 36		510-0112, 60		800-0026, 53	
338-3988, 66		502-1354, 43		510-0163, 16		800-0309-10, 63	
338-3989, 69		503-0976, 26 , 49		510-0223, 16		800-0310-01, 59	
338-3990, 67 , 68		503-1136, 43		510-0224, 16		800-0317, 41	
338-4005, 65		503-1137, 43 , 49 , 51 , 61		512-0323, 31		800-0573, 54	
338-4010, 62		503-1139, 37		517-0136, 59		800-2054, 60	
338-4016, 71		503-1141, 49		518-0515, 36		800-2059, 38	
338-4017, 71		503-1142, 37		518-0548-05, 43		800-2087, 38	
338-4159, 53		503-1692, 46		520-1002-06, 60		800-3017-02, 55	
338-4200-02, 53		503-2046, 51		526-0003, 51		800-3017-04, 52	
350-1238, 36		503-2070, 26 , 49		526-0030, 54		800-3017-18, 21 , 59	
402-0681, 57		503-2195, 43		526-0052, 59		800-3017-19, 36 , 43	
402-0728, 54		503-2196, 43		526-0063, 40		800-3017-21, 51	
403-4127-02, 54		503-2197, 43		526-0325, 54		800-3017-22, 43	
403-4168-04, 54		503-2202-02, 49		526-0399-05, 63		800-3025, 53	
403-4284-04, 21		503-2207, 43		526-0399-11, 60		800-3030, 36 , 52 , 54	
417-0223, 72		503-2708, 27		526-0399-13, 59		800-3042, 57 , 61	
501-0578, 38		503-2709, 27		526-0399-41, 60		800-6062, 57	
501-0624, 47		505-0395, 47		526-0399-42, 60		800-6345, 31	
501-0672-01, 36		505-1485, 36		526-0399-58, 53		800-6368, 29	
501-0672-02, 36		505-1489, 36		526-0399-60, 21		800-6370, 48	
501-0709, 36		505-1490, 36		526-0399-62, 54		802-2544, 8	
501-0712-02, 43		505-2318, 48		526-0406, 36		810-0155, 59	
502-0003, 36		505-2319, 28		526-0409, 62 , 68 , 69		813-0102, 57	
502-0020-01, 36		507-0011, 16		526-2050, 61		813-0112, 36	
502-0028, 36		508-0115, 57		526-2100, 38		815-0181, 60	
502-0029, 36		508-0183, 60		526-2120, 53		815-0194, 12	
502-0029-06, 51		508-0210, 41		541-0590, 55		815-0236, 57	
502-0041, 36		508-1102, 57		541-0823, 53		815-0550-01, 59	
502-0054, 38		508-1105, 59		541-0824, 53		815-0862, 51	

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>
815-0910,	66 , 67 , 68	870-0131,	57 , 62 , 63				
815-0917-04,	60	870-0131-01,	53 , 60				
818-0231-02,	57	871-0016,	59				
818-1150-03,	59						
819-1156-01,	69						
821-0008,	59						
821-0009,	59						
821-5000-05,	60						
821-6001-03,	59						
821-6002-02,	36 , 41 , 49						
	, 55						
821-6003-01,	54						
821-6006-01,	59 , 61						
850-0114-07,	54						
850-0114-51,	62 , 68 , 69						
850-0114-53,	41 , 53 , 55						
850-0114-54,	36 , 43 , 51						
850-0114-55,	36						
850-2008,	38						
850-2058,	57						
853-0013,	60						
853-0016,	53 , 59						
853-0040-56,	52						
853-2010,	53						
856-0002,	57						
856-0003,	36 , 57 , 62 ,						
	63						
856-0006,	52 , 59						
856-0008,	57 , 59						
856-0012,	38						
860-2025,	62 , 68 , 69						
860-2058,	57						
862-0026-07,	54 , 60						
862-0026-30,	53						
862-0026-54,	41 , 52 , 53						
862-0026-55,	36 , 43						

Cummins **Onan**

Cummins Power Generation

1400 73rd Ave. NE
Minneapolis, MN 55432 USA

Phone 1 763 574 5000

Toll-free 1 800 888 6626

Fax 1 763 574 5298

Email www.cumminsonan.com/contact
www.cumminsonan.com

Cummins®, Onan®, the "C" logo, and "Performance you rely on." are trademarks of Cummins Inc.

©2011 Cummins Power Generation, Inc. All rights reserved.

