

Cummins **Onan**



Parts Manual

Marine Generator Set

MDKBP (Spec D–E)

MDKBR (Spec D–E)

MDKBV (Spec A–B)

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>
MDKBP/*	50/60
MDKBR/*	50/60
MDKBV/*	50/60

* – 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.

WIRING DIAGRAM

630–2694 DC



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Index

A

Actuator, Governor, **34**
Adapter, Dry Exhaust, **56**
Adapter, Engine, **12**
Adapter, Fuel Return Pipe, **35**
Adapter, Oil Drain, **25**
Alternator, **30**
Alternator (Isolated Ground), **33**
Alternator (MDKBP, MDKBR, Neg Gnd), **30**
Apparatus, Idling , **17**
Assy Filter, Oil , **26**
Assy, Alternator Brush Holder (Negative Ground, 12V), **32**
Assy, Alternator Brush Holder (Negative Ground, 24V), **31**
Assy, Connecting Rod, **9**
Assy, Control (eSDD), **76**
Assy, Control PCB, **77**
Assy, Coolant Water Pump, **28 , 29**
Assy, Cylinder Head, **19**
Assy, Engine Mount, **60**
Assy, Engine Panel, **76 , 78**
Assy, Flywheel, **12**
Assy, Gearcase, **24**
Assy, Generator Rotor, **71**
Assy, Idle Gear, **11**
Assy, Rocker Arm, **20**
Assy, Rocker Arm Shaft, **20**
Assy, Water Separator Drain, **38**
Assy, Water Separator Pump, **38**
Assy, Water Separator Replacement Head, **38**

B

Baffle, Air, **71**
Ball, Crankshaft (MDKBP, MDKBR), **10**
Bar, Bus, **61**
Barb, Keel Cooling (Dry Exhaust), **48**
Base, Generator Mounting, **60**
Base, Mounting, **60**
Bearing, Alternator (Negative Ground, 24V), **31**
Bearing, Ball, **14**
Bearing, Connecting Rod, **9**
Bearing, Crankshaft (MDKBP, MDKBR), **10**
Bearing, Generator, **71**
Bearing, Lower Thrust (MDKBP, MDKBR), **10**
Bearing, Upper Thrust (MDKBP, MDKBR), **10**
Bearing, Water Pump, **46**
Belt, **30**
Block, Cylinder, **7 , 8**
Block, Cylinder MDKBP, **7**
Block, Cylinder MDKBR and MDKBV, **8**
Box, Control, **74**
Bracket, Adjustable Alternator, **33**
Bracket, Alternator (Isolated Ground), **33**
Bracket, Alternator (MDKBP, MDKBR, Neg Gnd), **30**
Bracket, Fan, **63**
Bracket, Fan Guard, **62**

Bracket, Guard, **62**
Bracket, Isolated Ground, **59**
Bracket, Mounting Pad, **51**
Bracket, Oil Drain, **25**
Bracket, PTO, **51**
Bracket, PTO (Right), **51**
Bracket, Remote Separator Mounting, **37**
Bracket, Rocker Arm, **20**
Breaker Circuit, **78**
Breaker, Circuit, **75**
Breather (MDKBP, MDKBR), **23**
Brush, Alternator (Negative Ground, 12V), **32**
Brush, Alternator (Negative Ground, 24V), **31**
Bulkhead Assy, Exhaust, **53**
Bulkhead, Exhaust Connector, **55**
Bushing, Connecting Rod, **9**
Bushing, Idle Gear, **11**

C

Cam, Water Pump, **46**
Camshaft, **11**
Camshaft, Fuel, **14**
Cap, Coolant Recovery Tank, **50**
Cap, Coolant Tank, **49**
Cap, Cylinder Block Sealing, **8**
Cap, Valve, **20**
Clamp, Fuel Return Hose, **35**
Clamp, Nozzle Pipe, **21**
Collar, Alternator (Negative Ground, 12V), **32**
Collar, Alternator (Negative Ground, 24V), **31**
Collar, Crankshaft (MDKBP, MDKBR), **10**
Collar, Idle Gear, **11**
Collet, Valve Spring, **20**
Components, Alternator (Negative Ground, 12V), **32**
Components, Alternator (Negative Ground, 24V), **31**
Components, Control Panel (Breaker Switch), **78**
Components, Control Panel (NIM), **76**
Components, Injection Pump, **18**
Components, Water Pump, **46 , 47**
Components, Water Separator, **38**
Connector, Hose, **40**
Contact, Relay, **76**
Control Harness, **81**
Control, Box, **75**
Cooler, Oil, **27**
Cooling, Keel (Dry Exhaust), **48**
Cord, Glow Plug, **21**
Coupling, Dry Exhaust Reducer, **56**
Coupling, PTO, **51**
Cover, Access, **64 , 65**
Cover, Alternator Bearing (Negative Ground, 12V), **32**
Cover, Alternator Bearing (Negative Ground, 24V), **31**
Cover, Alternator End (Negative Ground, 12V), **32**
Cover, Alternator End (Negative Ground, 24V), **31**
Cover, Box Control, **75**
Cover, Breather, **23**

Index

Cover, Cylinder Head, **23**
Cover, Cylinder Head (MDKBP, MDKBR), **23**
Cover, Enclosure (Rear), **63**
Cover, Water Pump, **46**
Crankshaft, **10**

D

Disc, Generator Drive, **71**

E

Elbow, Keel Cooling (Dry Exhaust), **48**
Element, Water Separator, **38**
Endbell, **71**
Engine, Replacement, **7 , 8**
Exchanger, Heat, **42**
Exhaust, Bulkhead, **53**
Exhaust, Dry, **56**
Exhaust, Wet, **55**

F

Fan, Generator, **71**
Filter, Fuel, **35 , 85**
Filter, Oil, **26 , 85**
Flange, Coolant Water Pump, **28 , 29**
Flange, Dry Exhaust, **56**
Flange, Water Outlet, **22**
Flange, Water Return, **24**
Frame, Alternator Drive End (Negative Ground, 24V), **31**
Frame, Alternator End (Negative Ground, 12V), **32**

G

Gasket, Bearing Housing Cover, **13**
Gasket, Coolant Water Pump, **28 , 29**
Gasket, Cylinder Block Plug, **8**
Gasket, Cylinder Head, **19**
Gasket, Dry Exhaust, **56**
Gasket, Dry Exhaust Adapter, **56**
Gasket, Exhaust Manifold, **54**
Gasket, Injection Pump Cover (MDKBP, MDKBR), **17**
Gasket, Injection Pump Hollow Screw, **18**
Gasket, Mixer, **55**
Gasket, Nozzle, **21**
Gasket, Oil Pan (MDKBP, MDKBR), **25**
Gasket, Oil Pan Plug (MDKBP, MDKBR), **25**
Gasket, Oil Pump, **7 , 8**
Gasket, Pump Cover, **7 , 8**
Gasket, Riser/Adapter, **54**
Gasket, Solenoid Cover, **34**
Gasket, Speed Control Plate, **15**
Gasket, Thermostat Cover, **22**

Gasket, Water Outlet Flange, **22**
Gear, Camshaft, **11**
Gear, Crankshaft (MDKBP, MDKBR), **10**
Gear, Oil Pump Drive, **7 , 8**
Gearcase Assy, **24**
Generator, **71**
Governor, **16**
Grommet, Generator, **71**
Ground, Isolated, **59**
Guard, Belt and PTO Belt, **62**
Guide, Card, **75**
Guide, Valve, **19**

H

Hanger, Coolant Recovery Tank, **50**
Harness, Accessory, **75**
Harness, Battery, **72 , 73**
Harness, Battery (Begin Spec B), **72 , 73**
Harness, Control , **81**
Harness, Ground, **59**
Harness, Isolated Ground, **59**
Harness, Junction, **83**
Harness, Remote Control Panel, **79**
Harness, Remote Extension, **83 , 84**
Harness, Remote Panel, **80**
Harnesses, **82**
Head, Cylinder, **19**
Holder, Nozzle, **21**
Hose, Coolant Tank Upper, **49**
Hose, Exhaust Manifold, **43**
Hose, Fuel, **36**
Hose, Intake, **52**
Hose, Keel Cooling (Dry Exhaust), **48**
Hose, Wet Exhaust, **55**
Housing, Generator, **63**
Housing, Main Bearing, **13**

I

Idle, **17**
Impeller, Water Pump, **46**
Inlet, Water, **39**
Insulation, Cover, **63**
Insulation, Duct (W/O PTO), **68**
Insulation, Enclosure, **63**
Insulation, Panel, **63**
Insulation, Panel , **63**
Insulation, Roof, **64 , 65**
Insulation, Roof End, **68**
Isolator, Mounting, **60**
Isolator, Vibration, **75**

Index

J

Joint, Intake Manifold Pipe, **52**

K

Keel Cooling, **45**
Key, Camshaft, **11**
Key, Crankshaft (MDKBP, MDKBR), **10**
Key, Fan Drive Pulley (MDKBP, MDKBR), **30**
Key, Oil Pump, **7 , 8**
Key, Water Pump, **46**
Kit, Coolant Recovery, **50**
Kit, Cruise, **85**
Kit, Exhaust, **48**
Kit, Exhaust (Wet), **55**
Kit, Exhaust Adapter, **56**
Kit, Exhaust Flange, **56**
Kit, Isolated Ground, **59**
Kit, Keel Cooling (Dry Exhaust), **48**
Kit, Major Water Pump Service, **46 , 47**
Kit, Minor Water Pump Service, **46 , 47**
Kit, Muffler, **58**
Kit, Muffler/Water Separator, **58**
Kit, Remote Control Panel, **79**
Kit, Remote Control Panel Switch Harness, **79**
Kit, Remote Fuel/Water Separator, **37**
Kit, Remote Panel, **80**
Kit, Sender, **22**
Kit, Siphon Break, **40**
Kit, Water Separator, **58**
Kit, Water Separator Metal Bowl Replacement, **38**
Kit, Water Separator O'Ring , **38**
Kits, **85**

L

Label, Information (Control), **78**
Labels, **85**
Lever, Governor, **16**
Lines, Fuel Transfer, **36**

M

Manifold, Exhaust, **54**
Manifold, Intake, **52**
Meter, Hour, **78 , 80**
Mixer, **55**
Mounting, Printed Circuit Board, **77**
Muffler, **58**
Muffler, Dry Exhaust, **57**

N

Nipple, Keel Cooling (Dry Exhaust), **48**
Nozzle, **21**

O

O'Ring, Crankshaft (MDKBP, MDKBR), **10**
O'Ring, Gearcase, **24**
O'Ring, Water Pump, **46**

P

Pan, Oil, **25**
Pan, Oil (MDKBP, MDKBR), **25**
Panel, Access, **67**
Panel, Air Baffle, **63**
Panel, Control, **78**
Panel, Control Box, **78**
Panel, Duct (W/O PTO), **68**
Panel, Enclosure (W/PTO), **69**
Panel, Generator Housing, **63**
Panel, Housing, **63**
Panel, Remote (Switch Only), **79**
Panel, Remote (Switch/Hourmeter), **80**
Panel, Roof, **64 , 65**
Panel, UMC Mounting, **77**
PCB, **75**
Pin, Cylinder Block Pipe, **8**
Pin, Cylinder Block Straight, **7 , 8**
Pin, Gearcase, **24**
Pin, Piston, **9**
Pin, Rocker Arm Spring, **20**
Pipe, Injection, **21**
Pipe, Overflow, **21**
Pipe, Water Return, **8 , 22**
Piston, **9**
Plate, Alternator Retainer (Negative Ground, 12V), **32**
Plate, Alternator Retainer (Negative Ground, 24V), **31**
Plate, Speed Control, **15**
Plate, Water Pump Wear, **46**
Plug, Coolant Tank Hex Pipe, **49**
Plug, Cylinder Block, **7 , 8**
Plug, Cylinder Head, **19**
Plug, Gearcase, **24**
Plug, Glow, **21**
Plug, Hole, **63**
Plug, Oil Pan (MDKBP, MDKBR), **25**
Plug, Water Outlet Flange, **22**
Plug, Water Separator, **38**
Plunger, Pump, **18**

Index

PTO, **51**
Pulley, Alternator (Isolated Ground), **33**
Pulley, Alternator (Negative Ground, 12V), **32**
Pulley, Alternator (Negative Ground, 24V), **31**
Pulley, Fan Drive (MDKBP, MDKBR, Neg Gnd), **30**
Pump, Keel Cooling Raw Water (Wet Exhaust), **45**
Pump, Oil, **8**

R

Rectifier, Alternator (Negative Ground, 12V), **32**
Regulator, Alternator (Negative Ground, 12V), **32**
Relay, Isolated Ground Solenoid, **59**
Resonator, Intake, **52**
Retainer, Endbell, **71**
Retainer, Valve Spring, **20**
Ring, Piston Retaining, **9**
Ring, Water Pump Retaining, **46**
Riser, Exhaust, **56**
Riser, Wet Exhaust, **55**
Rivet, Drive Plastic, **76**
Rod, Push, **11**
Rotor, Exciter, **71**

S

Seal, Brush, **63**
Seal, Crankshaft Oil (MDKBP, MDKBR), **10**
Seal, Heat, **21**
Seal, Main Bearing Housing Oil, **13**
Seal, Valve Stem, **20**
Seal, Water Pump Lip, **46**
Seal, Water Pump Mechanical, **46**
Seal, Weather (15.6'), **66**, **67**
Seat, Spring, **18**
Seat, Valve, **24**
Sender, Low Coolant, **49**
Sender, Oil Pressure, **25**
Sender, Water Temperature, **22**
Separator, **58**
Separator, Remote Fuel/Water, **37**
Separator, Remote Fuel/Water Separator, **37**
Separator, Water, **58**
Set, Ring, **9**

Shaft, Fork Level, **16**
Shaft, Idle Gear, **11**
Shaft, Water Pump, **46**
Shield, Sound, Engine (Cover), **64**, **65**, **66**
Shield, Sound, Engine (Front and Rear), **68**
Shield, Sound, Engine (Front with PTO), **69**
Shield, Sound, Engine (Side Panel), **67**
Shim, PTO, **51**
Siphon, Break, **40**
Sleeve, Air Intake, **52**
Slinger, Oil (MDKBP, MDKBR), **10**
Socket, Relay, **81**
Spacer, Generator Fan, **71**
Spring, Alternator Brush (Negative Ground, 12V), **32**
Spring, Alternator Brush (Negative Ground, 24V), **31**
Spring, Rocker Arm, **20**
Spring, Valve, **20**
Stator, Generator, **71**
Stator, Wound, **71**
Stopper, Camshaft, **11**
Stopper, Fuel Camshaft, **14**
Strainer, Water Pickup, **58**
Strap, Electrical, **61**
Switch, High Exhaust Temperature, **55**
Switch, Remote Control Panel Rocker (S11), **79**
Switch, Rocker (S11), **80**
System, Fuel, **35**
System, Grounding, **61**

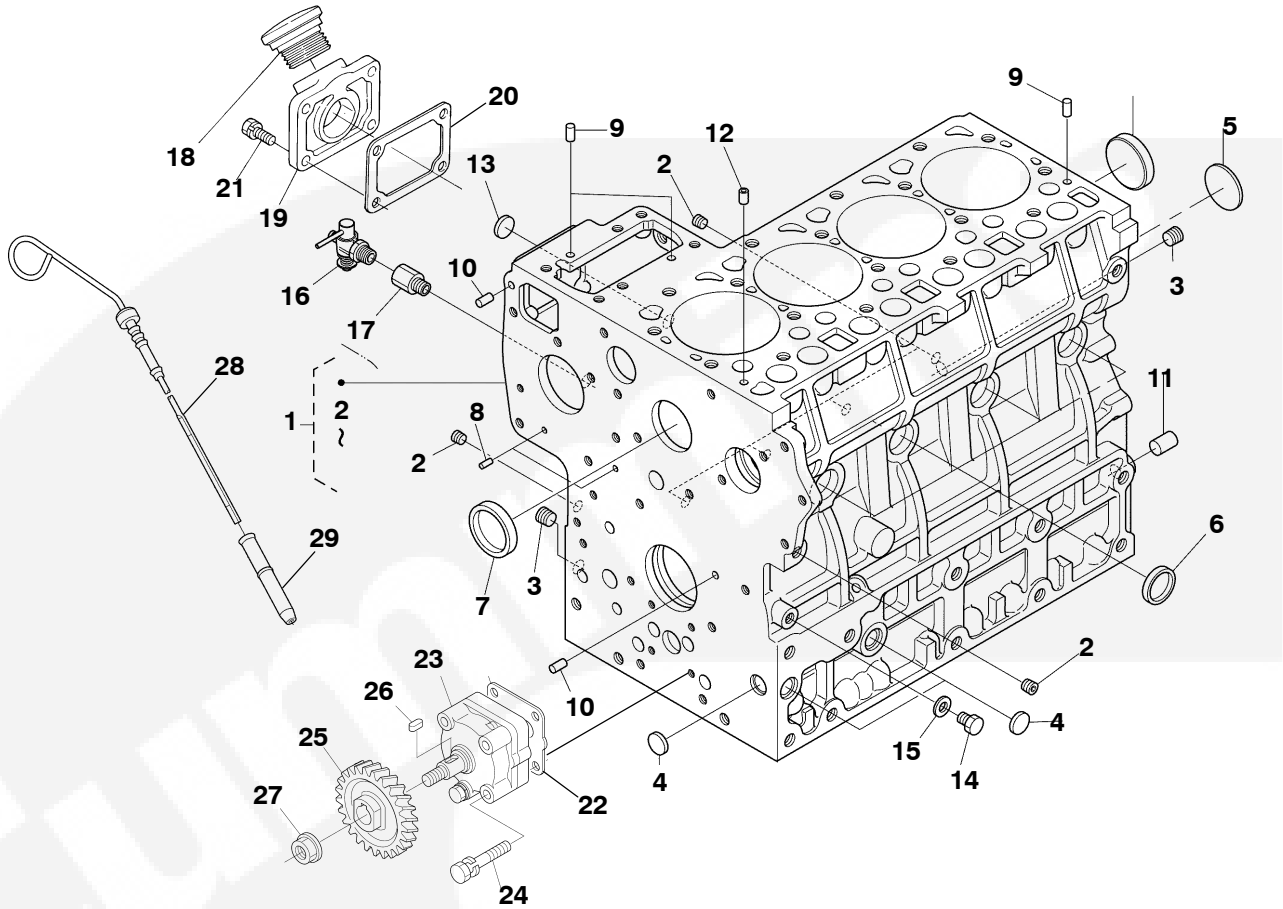
T

Tank, Coolant, **49**
Tappet, **11**
Tee, Keel Cooling, **48**
Thermostat, **22**
Tube, Breather (MDKBP, MDKBR), **23**
Tube, Flexible Exhaust, **57**
Tube, Oil Pickup (MDKBP, MDKBR), **25**

V

Valve, **20**
Valve, Check, **40**

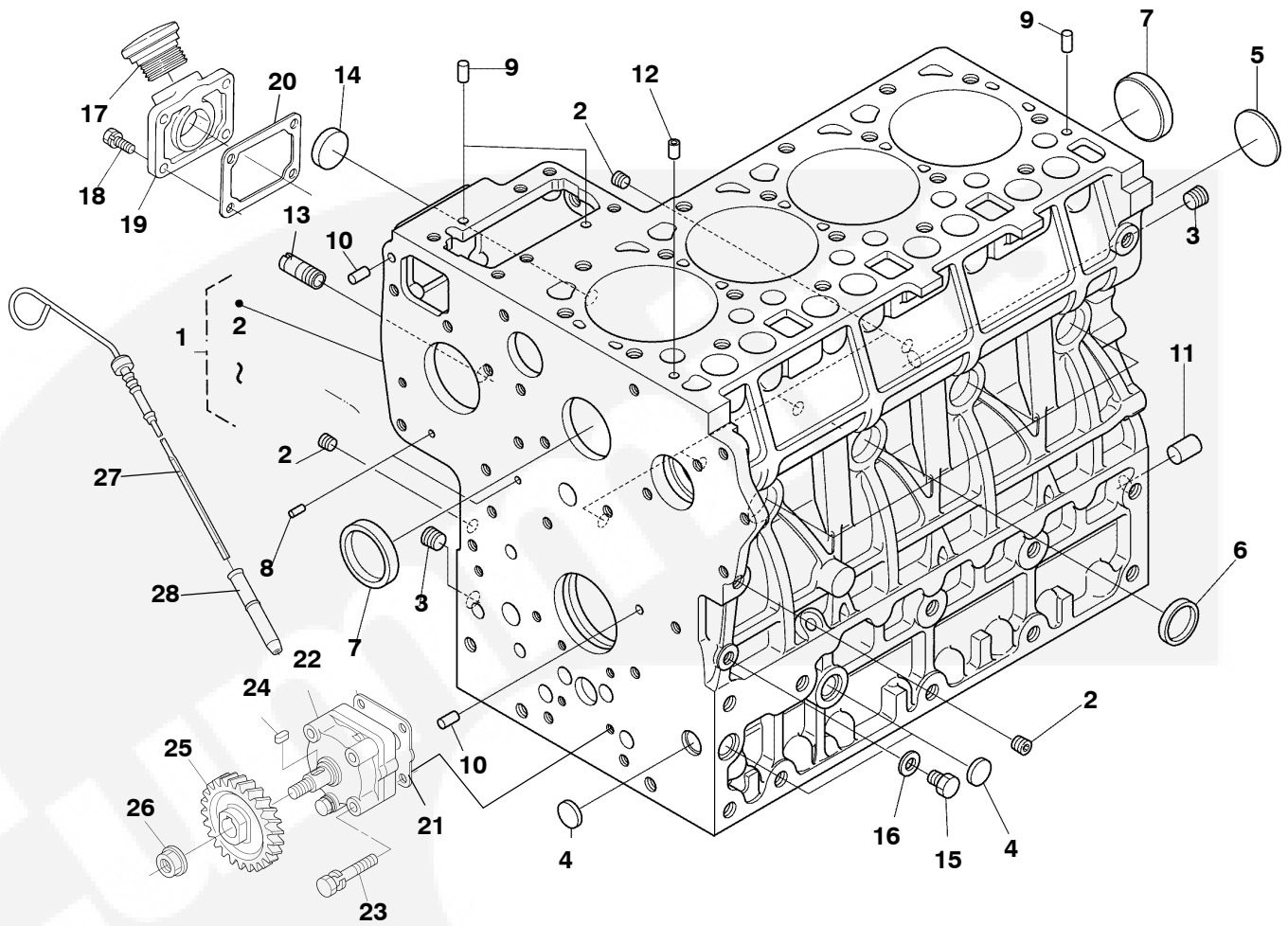
Cylinder Block, MDKBP



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Engine, Replacement	16	185-5846	1	Drain, Valve
	100-4103-01	1	12V	17	185-5847	1	Joint, Drain
	100-4103-02	1	24V	18	517-0452	1	Plug, Oil Filler
1		1	Block Assy, Cylinder (Includes Parts Marked *)	19	123-2429	1	Flange, Oil Filler
2	185-2233	6	*Plug	20	101-0837	1	Gasket, Pump Cover
3	185-2234	2	*Plug	21	185-2386	4	Bolt
4	185-6121	3	*Plug, Expansion	22	185-5849	1	Gasket, Oil Pump
5	185-6040	1	*Plug, Expansion	23	185-5848	1	Assy Pump, Oil
6	185-5840	6	*Cap, Sealing	24	185-7069	4	Bolt
7	185-5841	2	*Cap, Sealing	25	185-5851	1	Gear, Oil Pump Drive
8	185-5842	2	*Pin, Straight	26	185-2352	1	Key
9	185-2350	3	*Pin, Straight	27	185-7031	1	Nut, Flange
10	185-5843	2	*Pin, Straight	28	123-2424	1	Gauge, Oil
11	185-5844	1	*Pin, Straight	29	123-2262	1	Guide, Oil Gauge
12	185-2094	1	*Pin, Pipe				
13	185-5483	1	*Cap, Sealing				
14	517-0373	1	Plug				
15	185-2338	1	Gasket				

* - Parts Included in Keel Cooling Kit Found on Keel Cooling Dry Exhaust Page).

Cylinder Block MDKBR and MDKBV

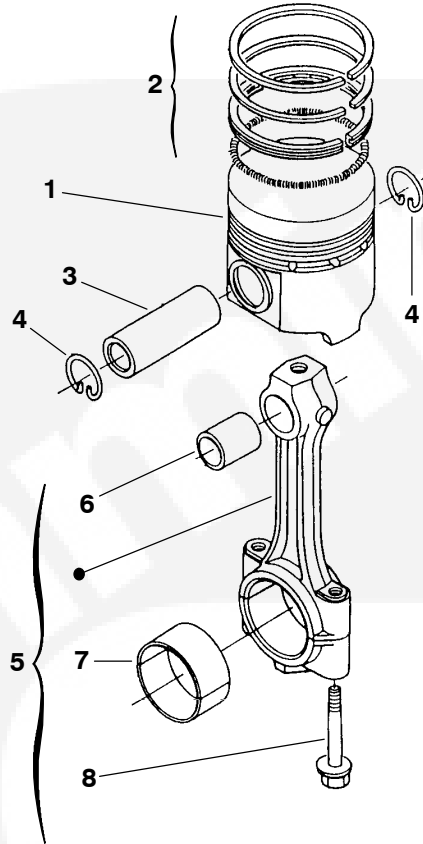


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Engine, Replacement	16	185-2338	1	Gasket
	100-4104-01	1	12V	17	517-0452	1	Plug, Oil Filler
	100-4104-02	1	24V	18	185-2389	4	Bolt
1	110-4105	1	Block Assy, Cylinder (Includes Parts Marked #)	19	123-2429	1	Flange, Oil Filler
2	185-2233	6	#Plug	20	101-0837	1	Gasket, Pump Cover
3	185-2234	2	#Plug	21	185-5849	1	Gasket, Oil Pump
4	185-6121	3	#Plug, Expansion	22	185-5848	1	Pump, Oil
5	185-6040	1	#Plug, Expansion	23	185-7069	4	Bolt
6	185-5840	6	#Cap, Sealing	24	185-2352	1	Key
7	185-5841	2	#Cap, Sealing	25	185-5851	1	Gear, Oil Pump Drive
8	185-5842	2	#Pin, Straight	26	185-7031	1	Nut, Flange
9	185-2350	3	#Pin, Pipe	27	123-2424	1	Gauge, Oil
10	185-5843	2	#Pin, Straight	28	123-2262	1	Guide, Oil Gauge
11	185-5844	1	#Pin, Straight				
12	185-2094	1	#Pin, Pipe				
13	505-2529	1	#Pipe, Water Return				
14	185-5483	1	#Cap, Sealing				
15	517-0373	1	Plug				

- Parts included in Cylinder Block Assy.

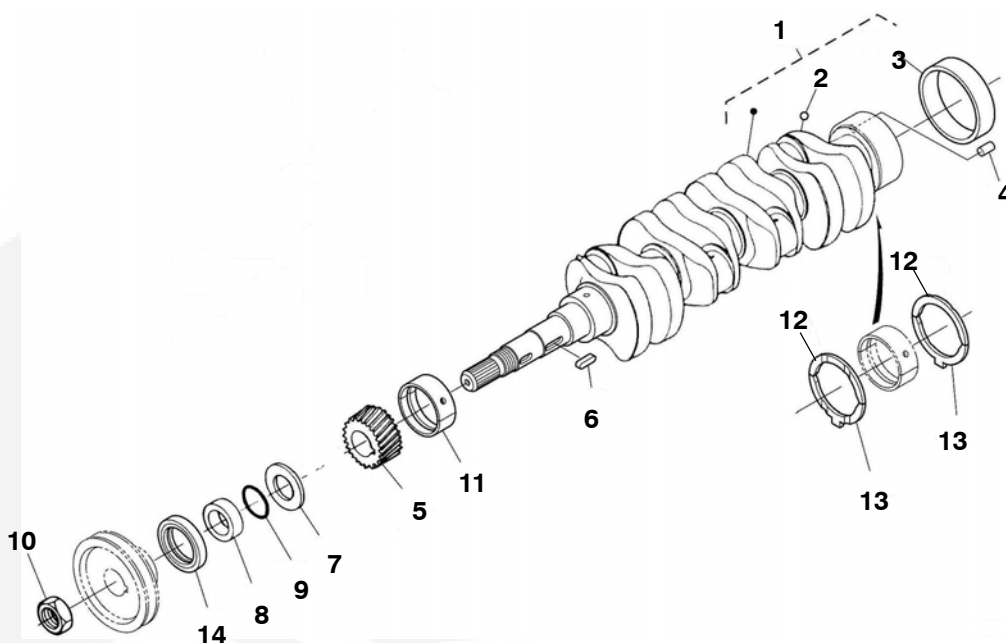
* - Parts Included in Keel Cooling Kit Listed on Keel Cooling-Dry Exhaust Page.

Piston



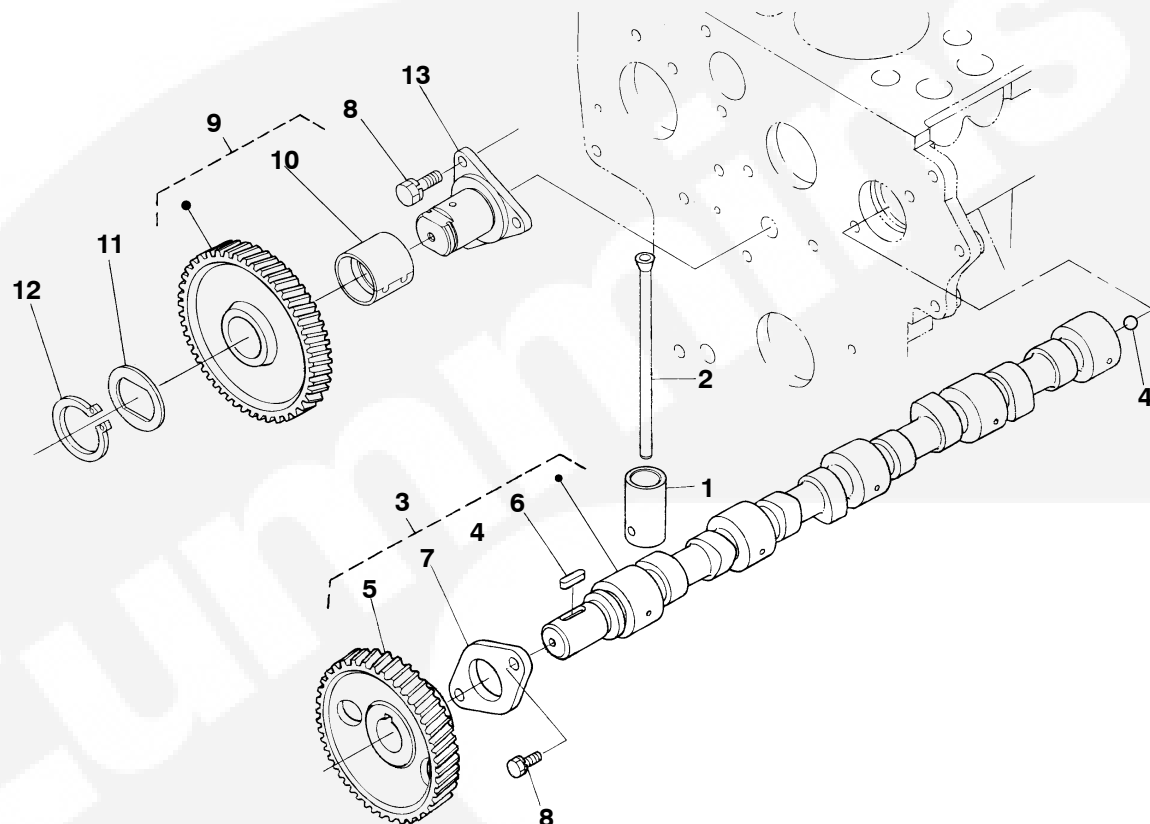
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Piston	3	112-0348	4	Pin, Piston
	112-0333	4	MDKBP	4	518-0732	8	Ring, Retaining
	112-0334	4	Standard	5	185-5917	4	Rod Assy, Connecting (Includes Bushing, Bearing and Bolts)
			MDKBR, MDKBV	6	185-5918	4	Bushing
	112-0345	4	Standard	7			Bearing
	112-0346	4	0.5 mm Oversize		185-6076	4	Standard
2			Set, Ring		185-5921	4	0.2 mm Undersize
			MDKBP		185-5922	4	0.4 mm Undersize
	113-0357	4	Standard	8	185-6771	8	Bolt
	113-0358	4	0.5 mm Oversize				
			MDKBR, MDKBV				
	541-1168	4	Standard				
	541-1169	4	0.5 mm Oversize				

Crankshaft



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-2165	1	Crankshaft (Includes Balls and Sleeve)	10	185-5930	1	Nut, Camshaft
2	185-5924	4	Ball	11	104-2033	1	Bearing Standard
3	185-5925	1	Bush, Crankshaft		104-2037	1	0.2 mm Undersize
4	516-2147	1	Pin, Straight		104-2038	1	0.4 mm Undersize
5			Gear	12			Bearing, Upper Thrust
	507-0006	1	MDKBP		104-2034	4	Standard
	507-0042	1	MDKBR, MDKBV		104-2041	4	0.2 mm Undersize
6			Key		104-2042	4	0.4 mm Undersize
	185-5905	1	MDKBP	13			Bearing, Lower Thrust
	185-6081	1	MDKBR, MDKBV		104-2036	2	Standard
7	185-6973	1	Slinger, Oil		104-2043	2	0.2 mm Oversize
8	185-5928	1	Collar		104-2044	2	0.4 mm Oversize
9	185-5929	1	O'Ring	14	185-5931	1	Seal, Oil

Camshaft

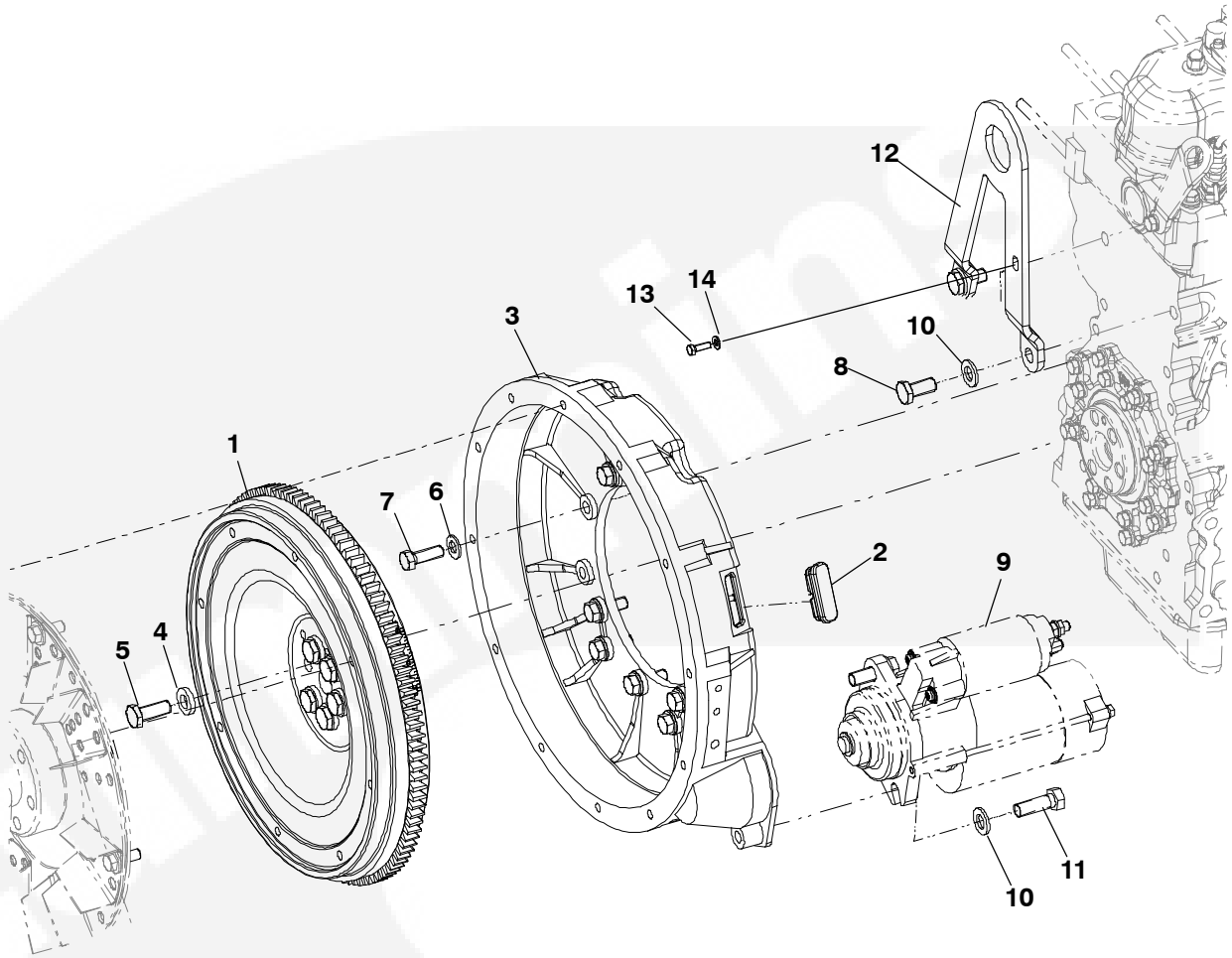


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5900	8	Tappet
2			Rod, Push
	185-5901	8	MDKBP
	115-0568	8	MDKBR, MDKBV
3			Camshaft Assy (Includes Parts Marked *)
	105-0771	1	MDKBP
	105-0772	1	MDKBR, MDKBV
4	185-5924	1	Ball
5	507-0007	1	Gear, Camshaft
6	185-5905	1	*Key

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	185-5906	1	*Stopper, Camshaft
8	185-2400	5	Bolt
9	507-0008	1	Gear Assy, Idle (Includes Bushing)
10	508-1216	1	Bushing, Idle Gear
11	406-1071	1	Collar
12	185-6072	1	Circular Clip, External
13	306-5438	1	Shaft, Idle Gear

* - Parts Included in Camshaft Assy

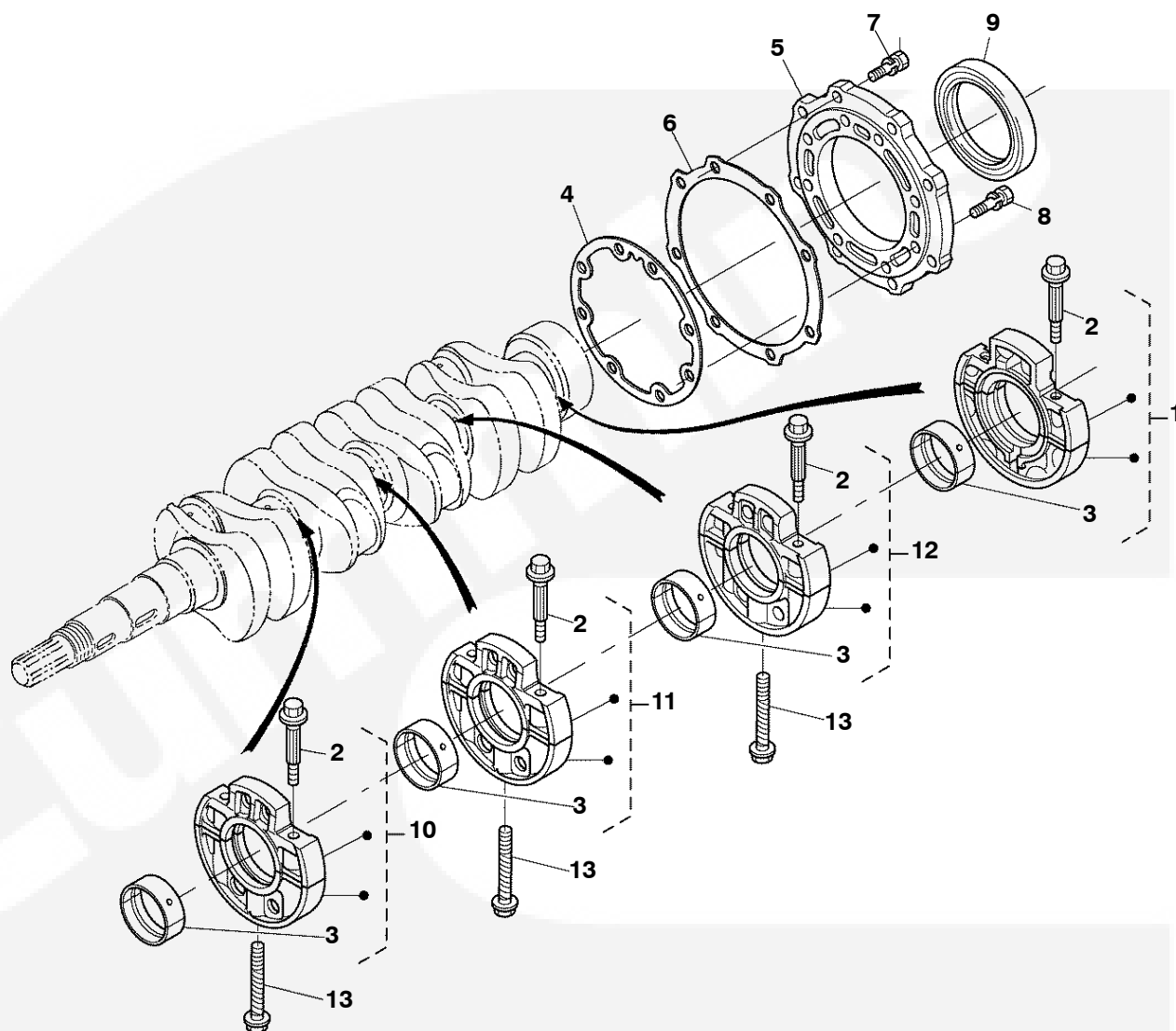
Flywheel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-2134		Flywheel Assy (Includes Ring Gear)
2	101-0811	1	Plug, Hole
3	101-0821-S0	1	Adapter, Engine
4	526-0145	6	Washer, Flat (M12)
5	800-3032	6	Screw, Hex Head Cap (M12 x 1.25 x 30mm)
6	526-0399-62	11	Washer, Flat (M10)
7	800-3005	11	Screw, Hex Head Cap (M10 x 1.25 x 30mm)
8	800-3033	2	Screw, Hex Head (M21 x 1.25 x 25mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9			Starter (See Separate Page For Components)
	191-1959	1	12V
	191-1550	1	24V
10	526-2140	4	Washer, Flat (M12)
11	800-2113	2	Screw, Hex Head Cap (M12 x 1.75 x 35mm)
12	403-7060-02	1	Bracket, Engine Lifting
13	718-1035	1	Screw, Hex Head Cap (M8 x 1.25 x 16mm)
14	526-2100	1	Washer, Flat (M8)

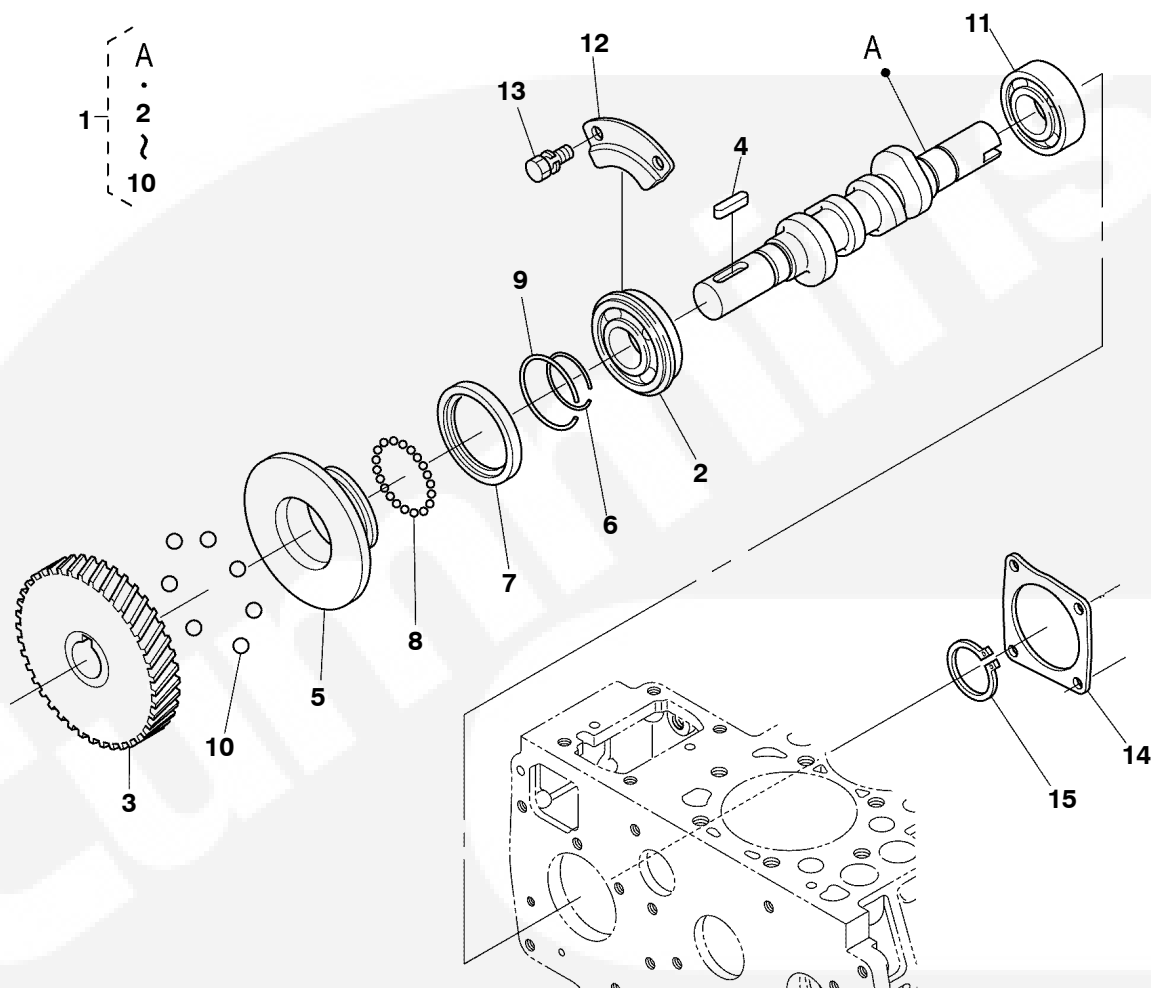
Main Bearing Housing



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-2029	1	Housing, Main Bearing MDKBP
	104-2166	1	MDKBR, MDKBV
2	800-6329	8	Bolt, Bearing Housing
3			Bearing, Crankshaft
	104-2035	1	Standard Set
	104-2039	1	0.20mm Set
	104-2040	1	0.40mm Set
4	185-6766	1	Gasket, Bearing Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	101-0836	1	Cover, Bearing Housing
6	185-5893	1	Gasket, Bearing Housing Cover
7	185-2403	8	Bolt
8	185-2404	8	Bolt
9	509-0416	1	Seal, Oil
10	104-2031	1	Housing, Main Bearing
11	104-2032	1	Housing, Main Bearing
12	104-2164	1	Housing, Main Bearing
13	185-5899	3	Bolt, Bearing Housing

Fuel Camshaft

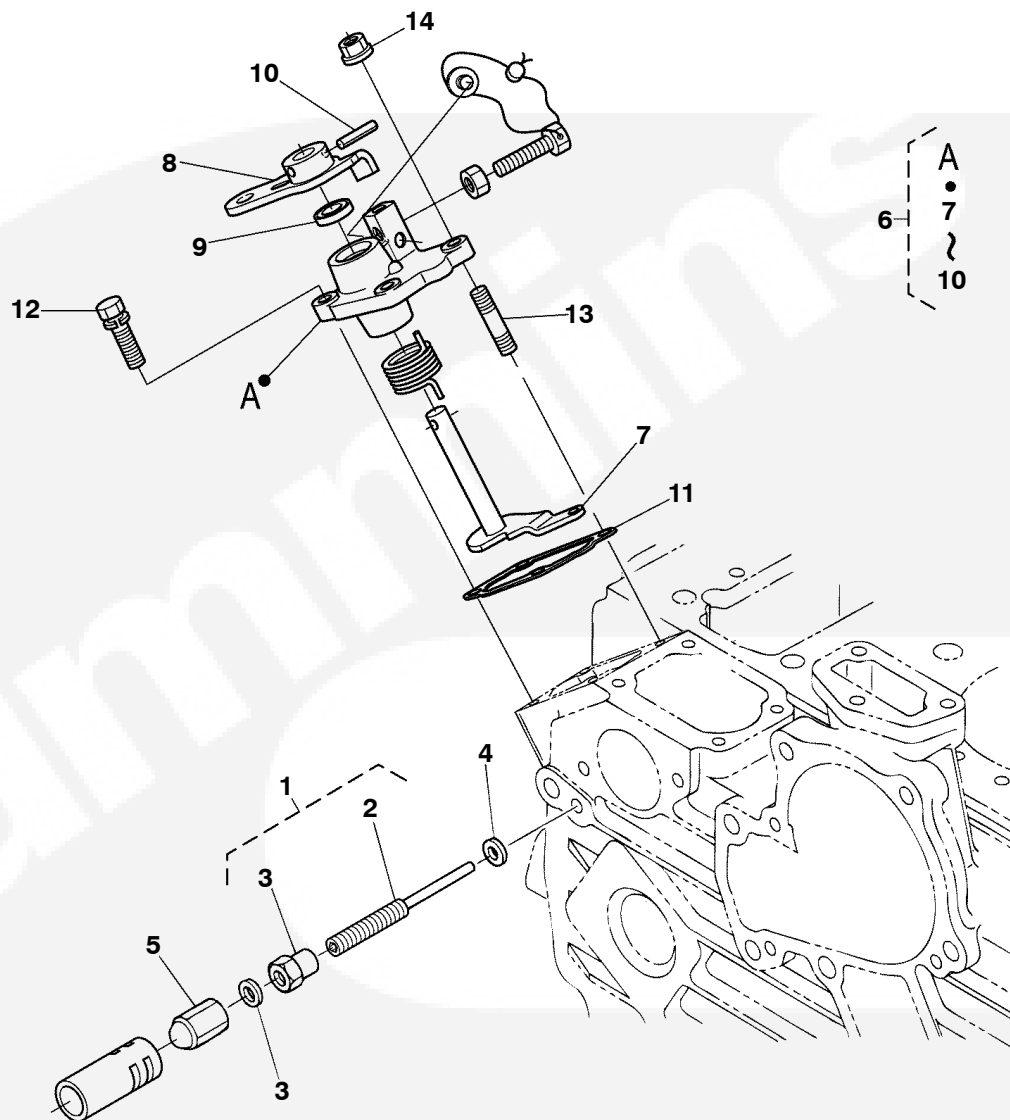


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Camshaft Assy, Fuel (Includes Parts Marked *)
	150-2978	1	MDKBP
	150-2983	1	MDKBR, MDKBV
2			*Bearing, Ball
	185-5947	1	MDKBP
	510-0266	1	MDKBR, MDKBV
3	507-0041	1	*Gear, Injection Pump
4	185-5949	1	*Key, Feather
5	150-2798	1	*Sleeve, Governor
6	518-0712	1	*Clip, External Circular
7	150-2800	1	*Case, Governor Ball
8	185-5575	39	*Ball
9	518-0713	1	*Clip, Circular

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	105-0741	7	*Ball
11			Bearing, Ball
	510-0265	1	MDKBP
	510-0267	1	MDKBR, MDKBV
12			Stopper, Fuel Camshaft
	185-5962	1	MDKBP
	150-2984	1	MDKBR, MDKBV
13	185-6956	2	Bolt
14	150-2993	1	Gasket
15	185-5963	1	Clip, External Circular

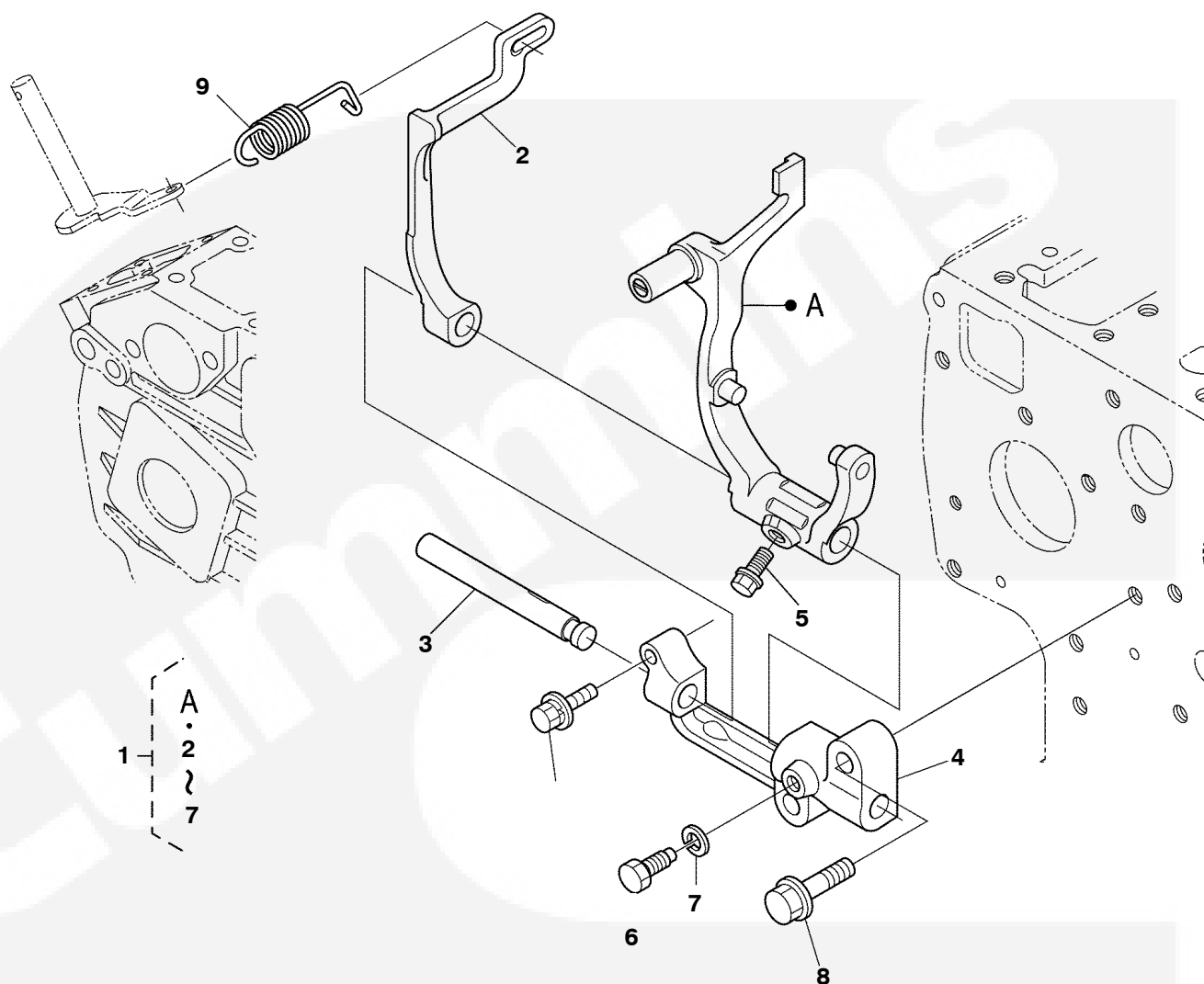
* - Parts Included in Fuel Camshaft Assy

Speed Control



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2840	1	Bolt, Adjusting – Maximum Fuel	8	152-0385	1	Lever, Speed Control
2	800-6307	1	Bolt, Adjusting	9	509-0558	1	Seal, Oil
3	185-6164	1	Nut	10	185-2351	1	Pin, Spring
4	185-2284	2	Gasket	11	150-2844	1	Gasket, Plate
5	185-5529	1	Nut	12	185-2388	2	Bolt
6	150-2981	1	Plate, Speed Control	13	185-5727	2	Stud
7	150-2841	1	Comp Lever, Governor	14	185-7166	2	Nut, Flange

Governor

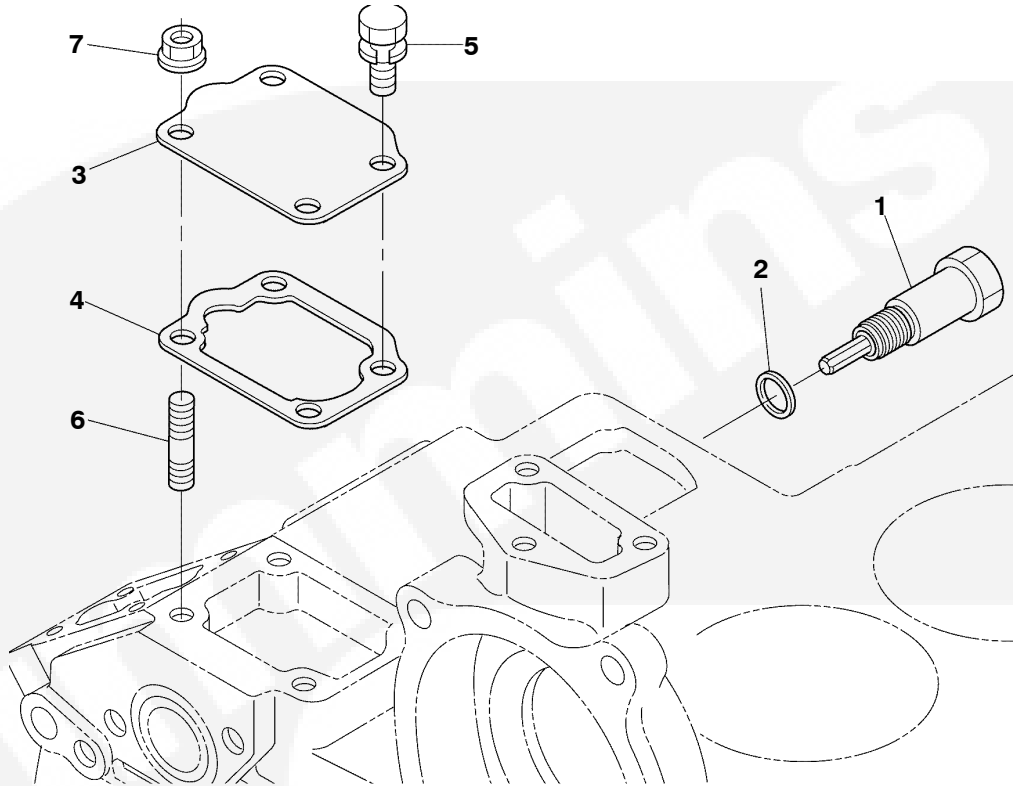


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	306-5439	1	Lever, Governor MDKBP
	150-2986	1	MDKBR, MDKBV
2	150-2842	1	Lever Assy, Fork (Includes Parts Marked *)
3	150-2805	1	*Shaft, Fork Level
4	150-2836	1	*Holder, Fork Lever
5	800-6305	1	*Bolt, Flange

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	800-6306	1	*Bolt
7	185-6759	1	*Washer, Spring
8	800-6334	1	*Bolt, Flange
9	506-0028	1	Spring, Governor

* - Parts Included in Fork Lever Assy.

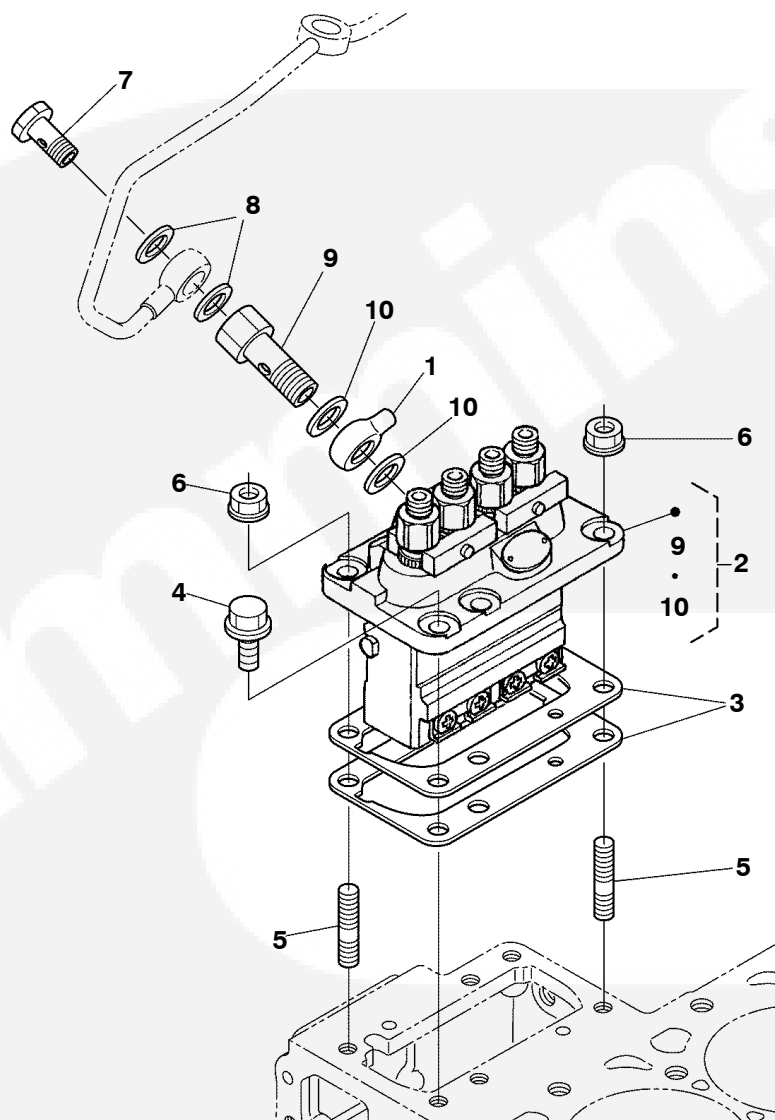
Idle



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2853	1	Apparatus, Idling
2	509-0418	1	Gasket
3	150-2979	1	Cover, Boost Comp Housing
4	150-2844	1	Gasket, Plate
5	185-2390	2	Bolt

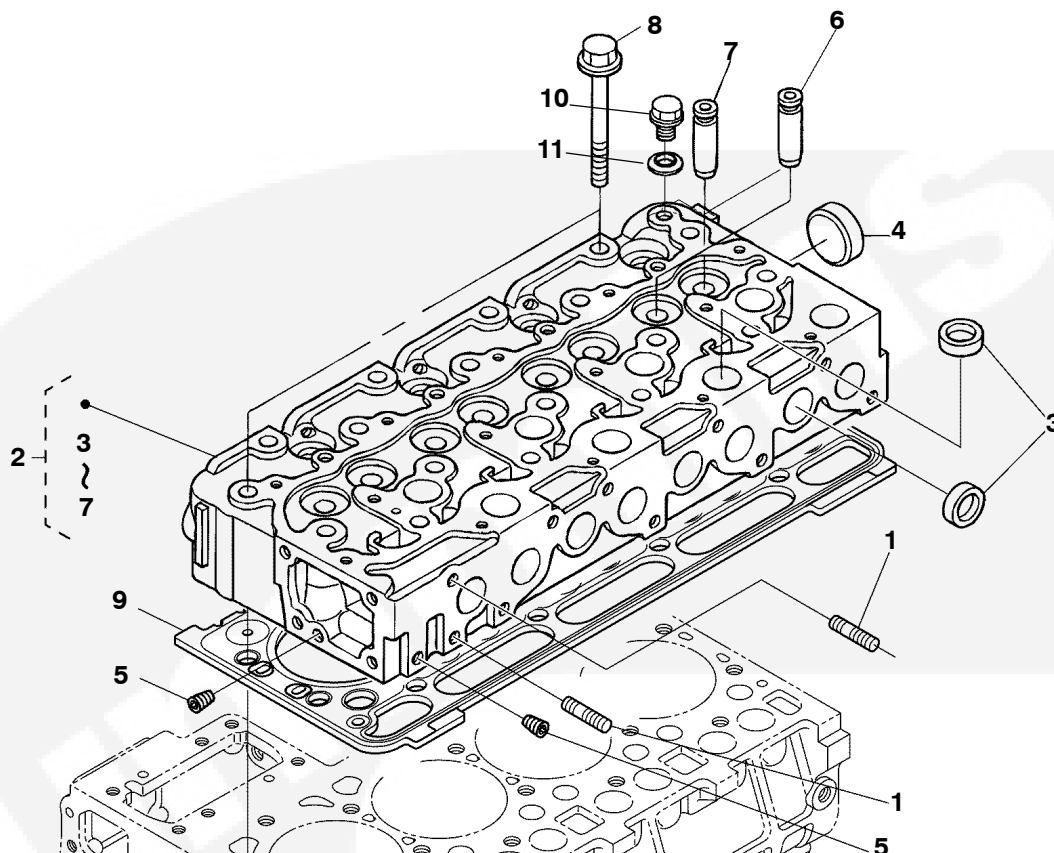
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	181-9034	2	Stud
7	185-7166	2	Nut, Flange

Injection Pump Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6418	1	Joint	4	800-6333	4	Bolt, Flange
2	147-0902	1	Assy Pump, Injection	5	185-2106	2	Stud
3			Shim, Injection Pump	6	185-7134	2	Nut, Flange
	147-0983	1	0.175mm	7	185-7045	1	Screw, Hollow
	185-6756	1	0.200mm	8	185-2578	2	Gasket
	185-6757	1	0.250mm	9	185-6153	1	Screw, Hollow
	185-6758	1	0.300mm	10	185-6154	2	Seat, Lower Spring

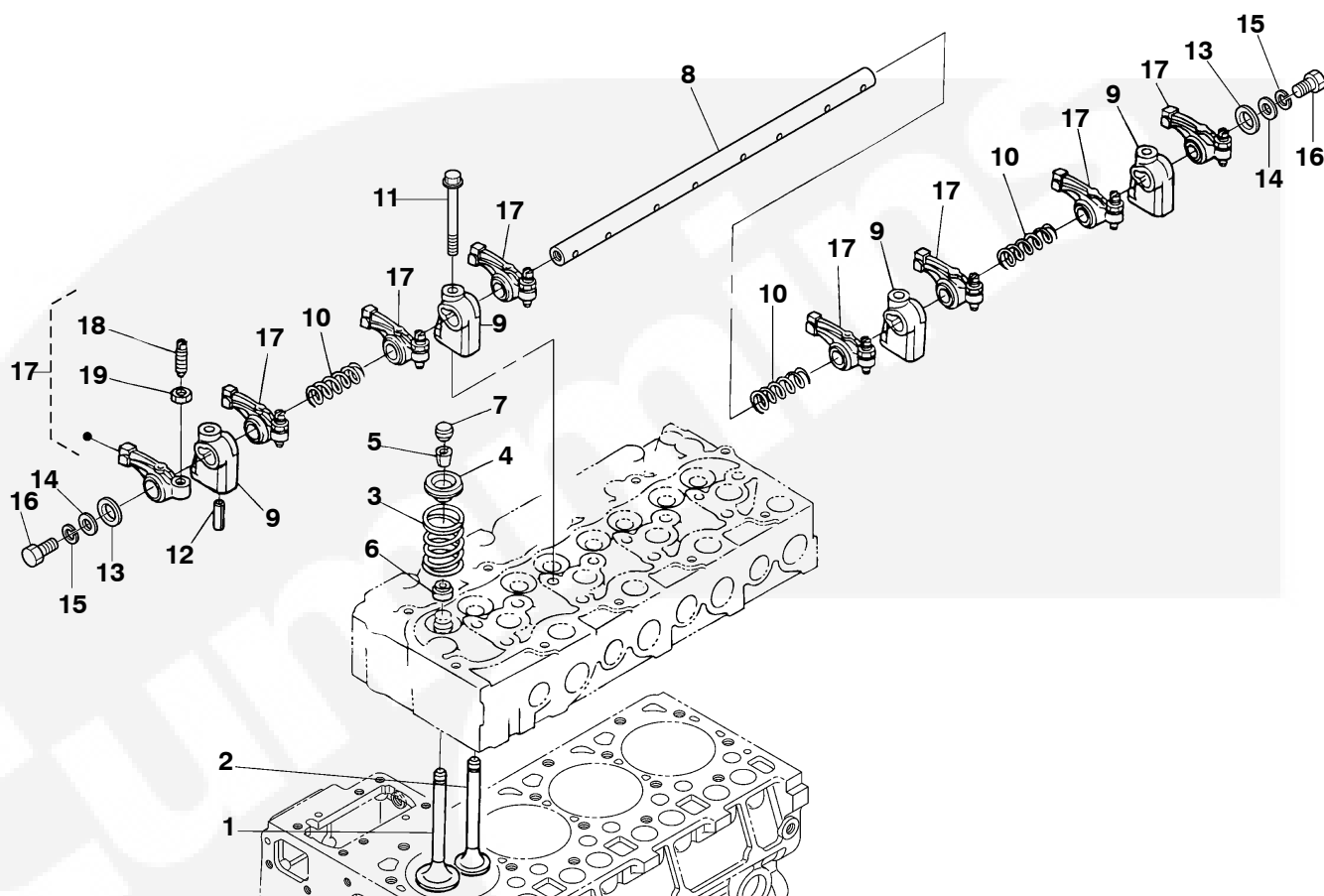
Cylinder Head



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6048	2	Stud	9			Gasket, Cylinder Head
2		1	Head Assy, Cylinder (Includes Parts Marked #)				MDKBP
	110-4097	1	MDKBP		110-4098	1	1.15mm
	110-4106	1	MDKBR, MDKBV		110-4099		1.20mm
3	185-5861	12	#Cap, Sealing		110-4100	1	1.25mm
4	185-2412	1	#Cap, Sealing		110-4101	1	1.30mm
5	185-2188	2	#Plug		110-4102	1	1.35mm
6	185-5862	4	#Guide, Inlet Valve				MDKBR, MDKBV
7	110-3987	4	#Guide, Exhaust Valve		110-4107	1	1.15mm
8	185-5865	18	Bolt, Cylinder Head		110-4108	1	1.20mm
					110-4109	1	1.25mm
					110-4110	1	1.30mm
					110-4111	1	1.35mm
				10	185-5867	1	Plug
				11	185-5868	1	Washer, Rubber

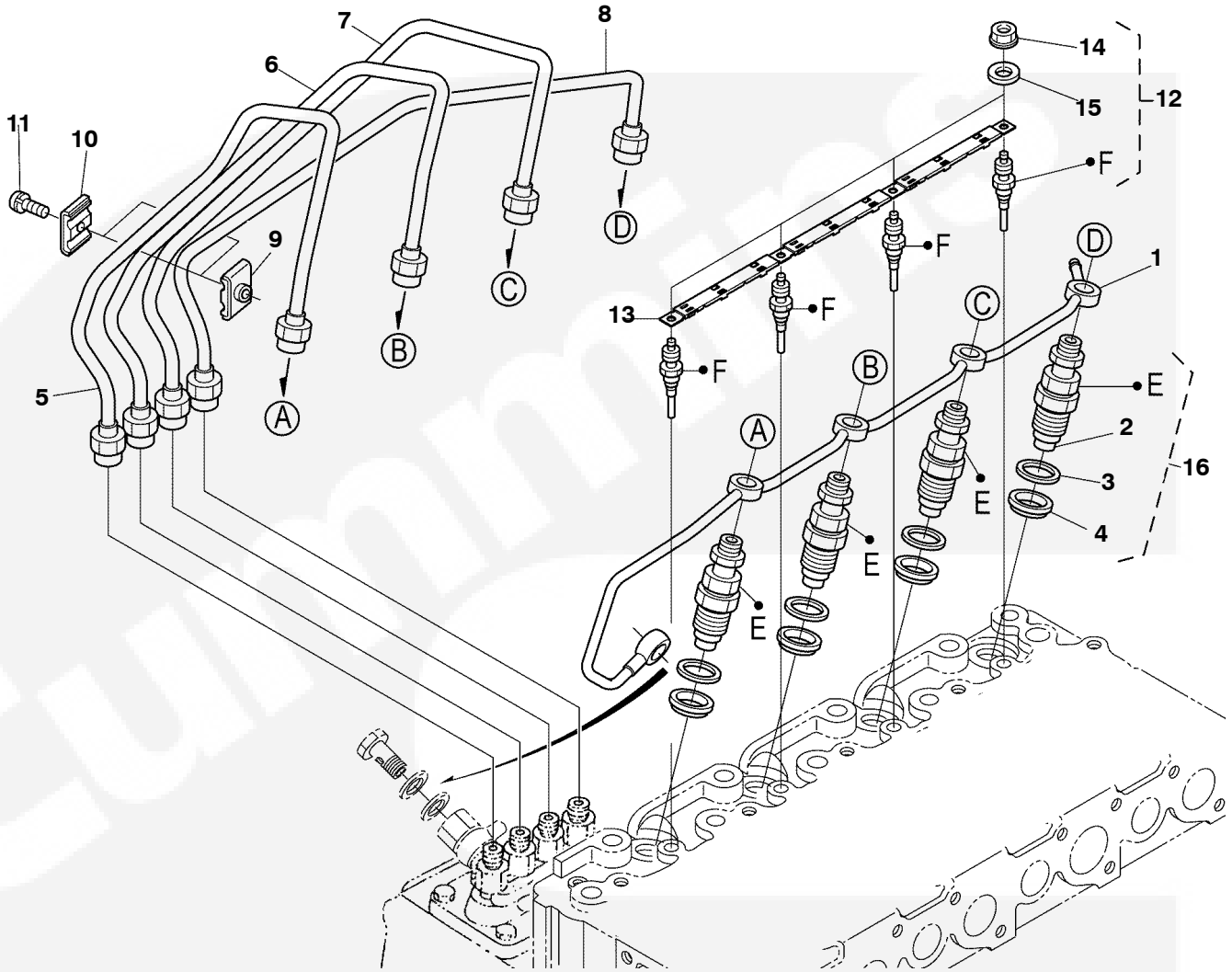
– Parts Included in Cylinder Head Assy.

Rocker Arm



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	110-4103	4	Valve, Inlet	10	185-6026	3	Spring, Rocker Arm
2	110-4104	4	Valve, Exhaust	11	800-6335	4	Bolt, Flange
3	185-6016	8	Spring, Valve	12	185-6789	1	Pin, Spring
4	185-6017	8	Retainer, Valve Spring	13	185-6025	2	Washer, Rocker Arm Shaft
5	110-3948	8	Collet, Valve Spring	14	185-7221	2	Washer, Plain
6	185-6018	8	Seal, Valve Stem	15	185-6957	2	Washer, Spring
7	185-6019	8	Cap, Valve	16	800-6327	2	Bolt
8	185-6020	1	Assy, Rocker Arm Shaft (Includes Set Screws)	17	185-6028	8	Assy, Rocker Arm (Includes
9	185-6022	4	Bracket, Rocker Arm	18	185-6029	8	Screw, Adjusting
				19	185-6030	8	Nut

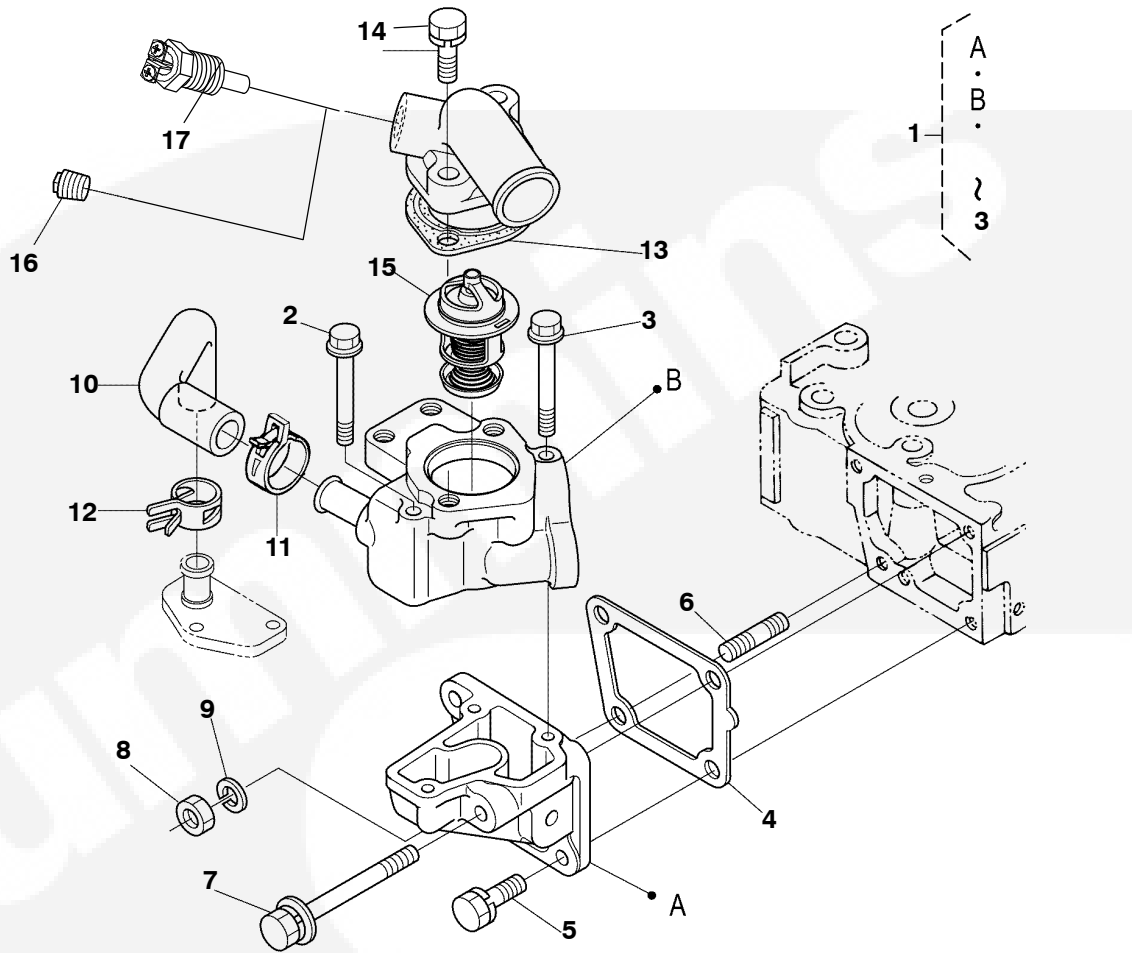
Nozzle Holder and Glow Plug



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6731	1	Pipe, Overflow
2	185-6095	4	Nozzle
3	185-5337	4	Gasket
4	185-5985	4	Seal, Heat
5	185-5986	1	Pipe, Injection
6	185-5987	1	Pipe, Injection
7	501-0886	1	Pipe, Injection
8	185-5989	1	Pipe, Injection
9	185-5612	3	Clamp, Pipe
10	185-2345	3	Clamp, Pipe

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	185-2385	3	Screw (With Washer)
12	185-5990	4	Plug, Glow 12V
	185-6725	4	24V
13	337-4114		Cord, Glow Plug
14	185-5615	4	Nut, Flange
15	185-7004	4	Washer, Plain
16	185-6094	4	Kit Holder, Nozzle (Includes Nozzle, Gasket and Heat Seal

Water Outlet Flange

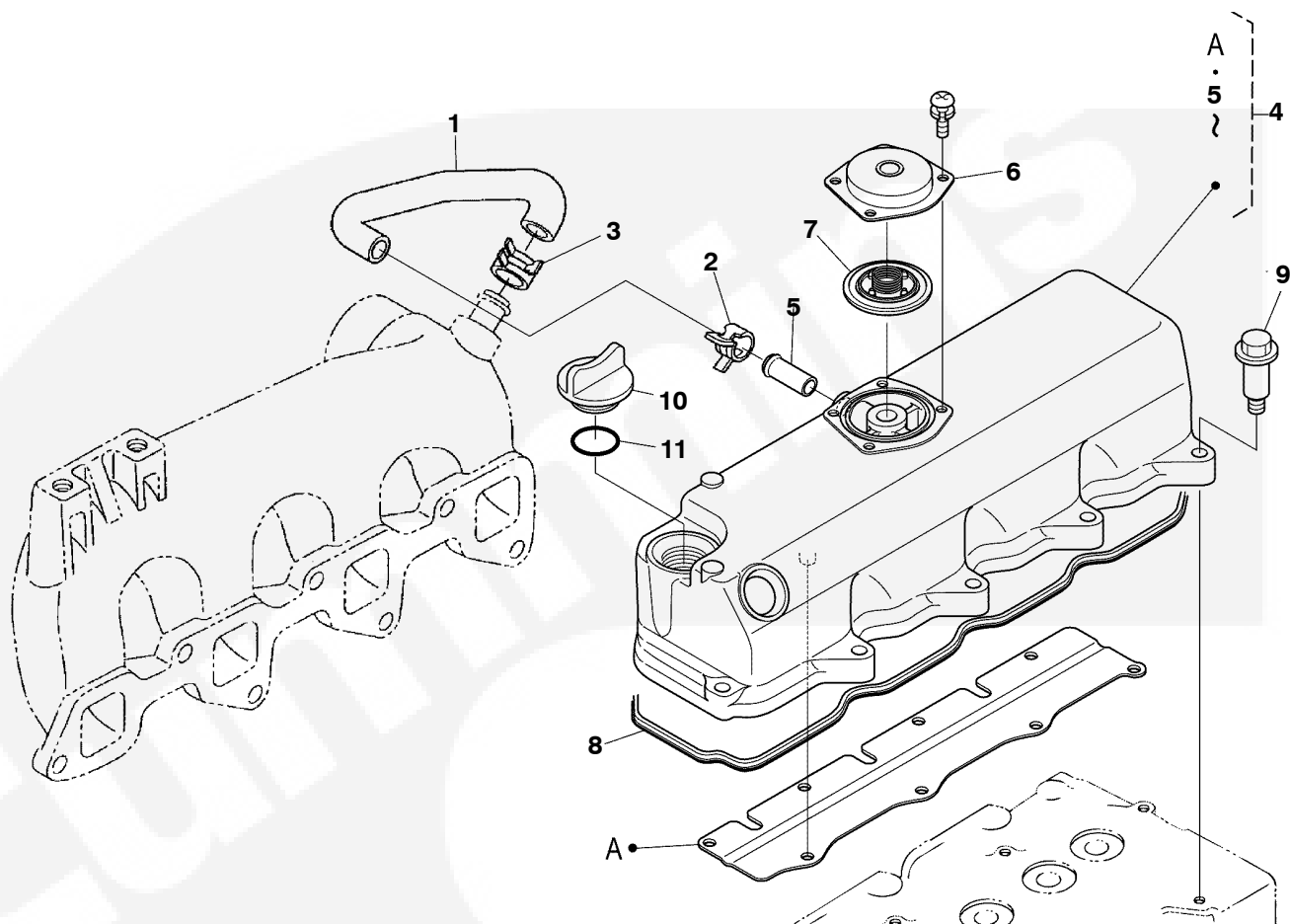


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			*Kit, Sender (Includes Water Temperature Sender)	12	503-2552	1	Clamp, Hose
	300-5040	1	Negative Ground	13	185-6004	1	Gasket, Thermostat
	300-5041	1	Isolated Ground	14	185-2565	2	Bolt
1	130-8281	1	Flange, Water Outlet (Includes Pipe)	15	130-6329	1	Thermostat
2	800-6331	2	Bolt, Flange	16	514-0441	1	Plug
3	800-6332	1	Bolt, Flange	17			+ Sender, Water Temperature (E2)
4	185-5999	1	Gasket, Water Flange		193-0318	1	Negative Ground
5	185-2401	2	Bolt		193-0457-01	1	Isolated Ground
6	185-2106	1	Stud				
7	800-6328	1	Bolt				
8	185-2367	1	Nut				
9	185-6957	1	Washer, Spring				
10	503-2553	1	Pipe, Water Return				
11	503-3142	1	Clamp, Hose				

* - Kit Also Includes Oil Pressure Sender Listed on Oil Pan Page.

+ - Water Temperature Sender ties to E2-2 Iso Harness (See Isolated Ground 338-4200-01)

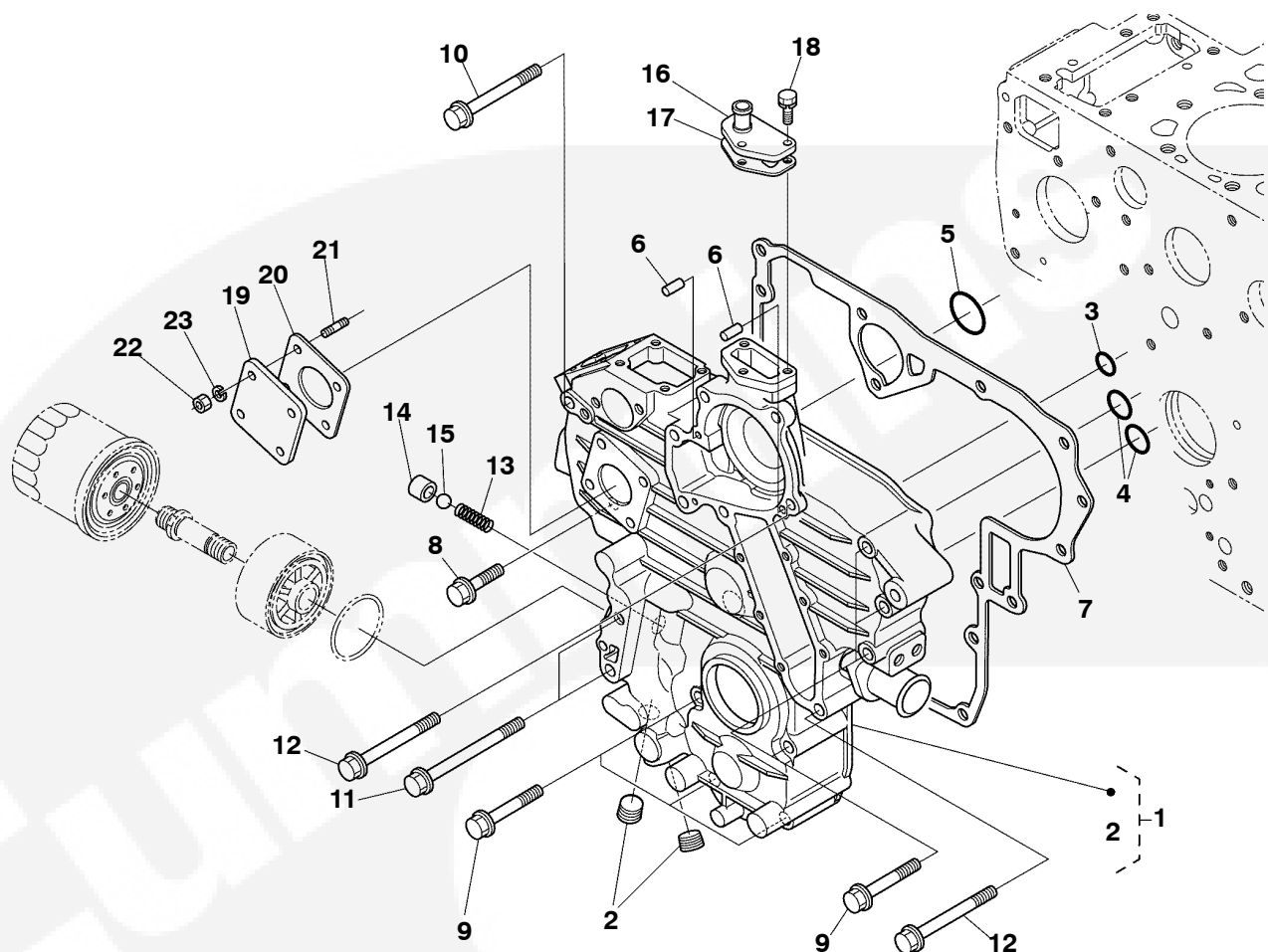
Cylinder Head Cover



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	123-2423	1	Tube, Breather
2	181-9025	1	Clamp, Hose
3	185-6722	1	Clamp, Hose
4	134-5391	1	Cover, Cylinder Head
5	185-6103	1	Pipe, Water Return
6	181-9238	1	Cover, Breather

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	123-2264	1	Breather
8	115-0567	1	Gasket, Head Cover
9	800-6330	10	Bolt
10	185-5407	1	Plug, Oil Filler
11	509-0414	1	O'Ring

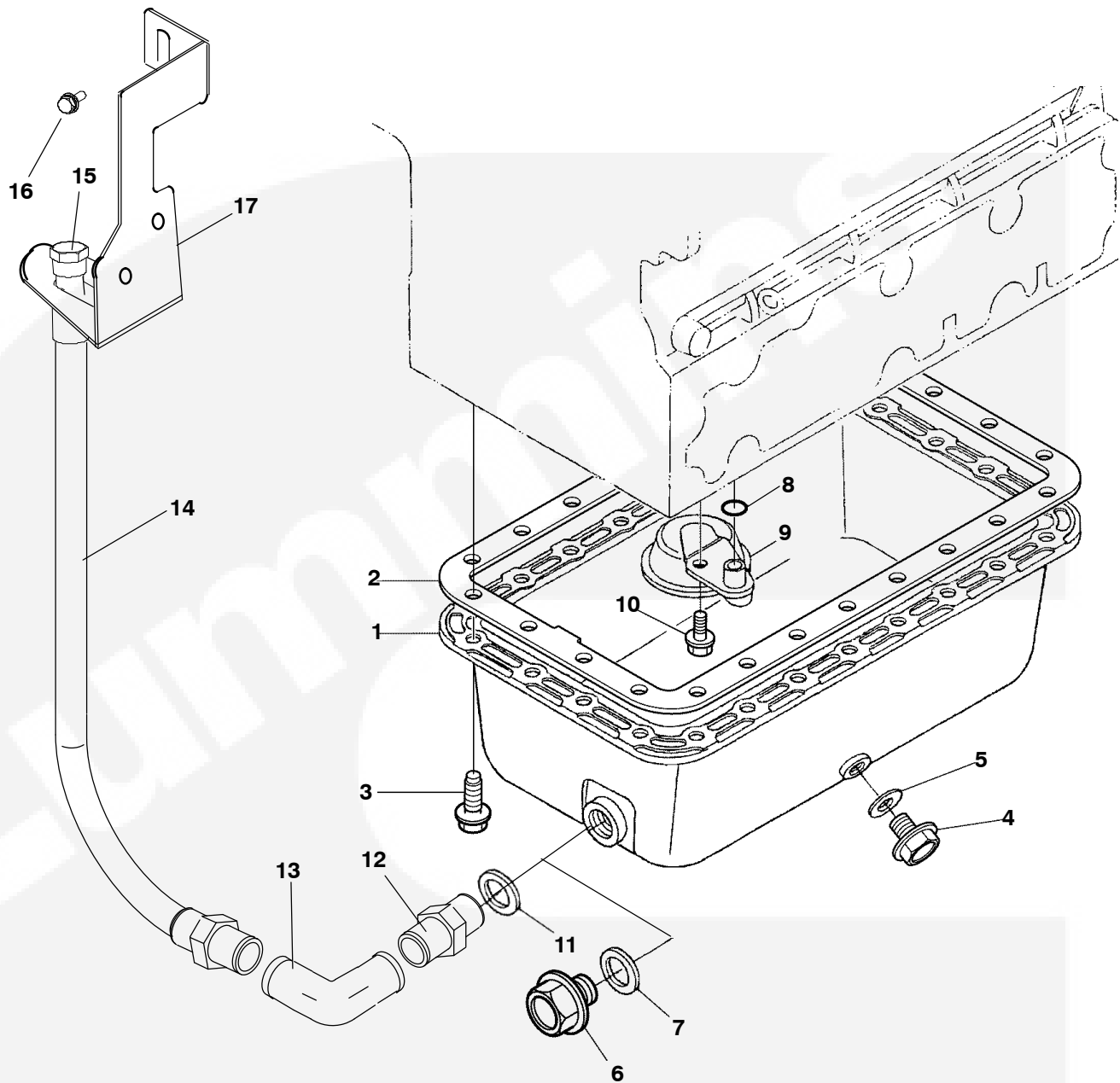
Gearcase



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Gearcase Assy (Includes Parts Marked *)	14	185-5878	1	Seat, Valve
	103-0869	1	MDKBP	15	185-6711	1	Ball
	103-0864	1	MDKBR, MDKBV	16	185-5879	1	Flange, Water Return
2	185-6481	2	*Plug	17	185-5880	1	Gasket, Water Return
3	509-0410	1	O'Ring	18	185-2559	3	Bolt
4	509-0412	2	O'Ring	19	185-2153	1	Cover
5	509-0413	1	O'Ring	20	302-2084	1	Gasket, Hourmeter
6	185-5843	2	Pin, Straight	21	181-9034	4	Stud
7	103-0832	1	Gasket, Gear Case	22	185-4255	4	Nut
8	800-6334	1	Bolt	23	185-6759	4	Washer, Spring
9	815-1602	7	Bolt, Flanged				
10	800-6414	1	Bolt				
11	815-1598	2	Bolt, Flanged				
12	815-1595	4	Bolt				
13	185-5877	1	Spring				

* - Parts Included in Gearcase Assy

Oil Pan

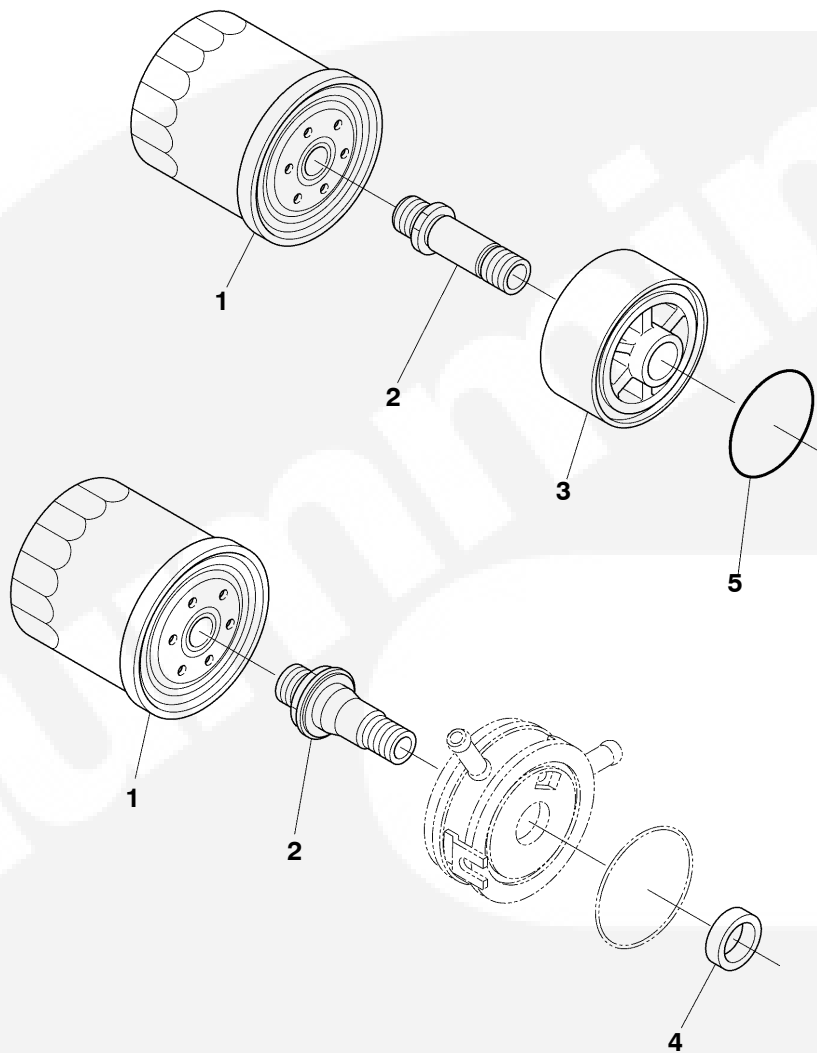


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6727	1	Pan, Oil
2	185-5854	1	Gasket
3	815-1601	4	Bolt, Flanged
4	517-0418	1	Plug, Drain
5	509-0428	1	Gasket
6	185-6760	1	Plug, Drain
7	185-6761	1	*Gasket
8	509-0411	1	O'Ring
9	185-6728	1	Tube, Oil Pickup
10	185-2573	1	Bolt
11	526-0413	1	Washer
12	102-1449-01	1	Adapter, Oil Drain
13	502-0263	1	Elbow, 90

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
14	501-0910	1	Hose, Assy
15	502-1123	1	Cap, Pipe
16	821-6002-03	3	Screw, Hex Head Sems (M6 x 1.0 x 16mm)
17	120-1387-03	1	Bracket, Oil Drain
18	193-0430-01	1	Sender, Oil Pressure
	193-0244-99		Isolated Ground Negative Ground

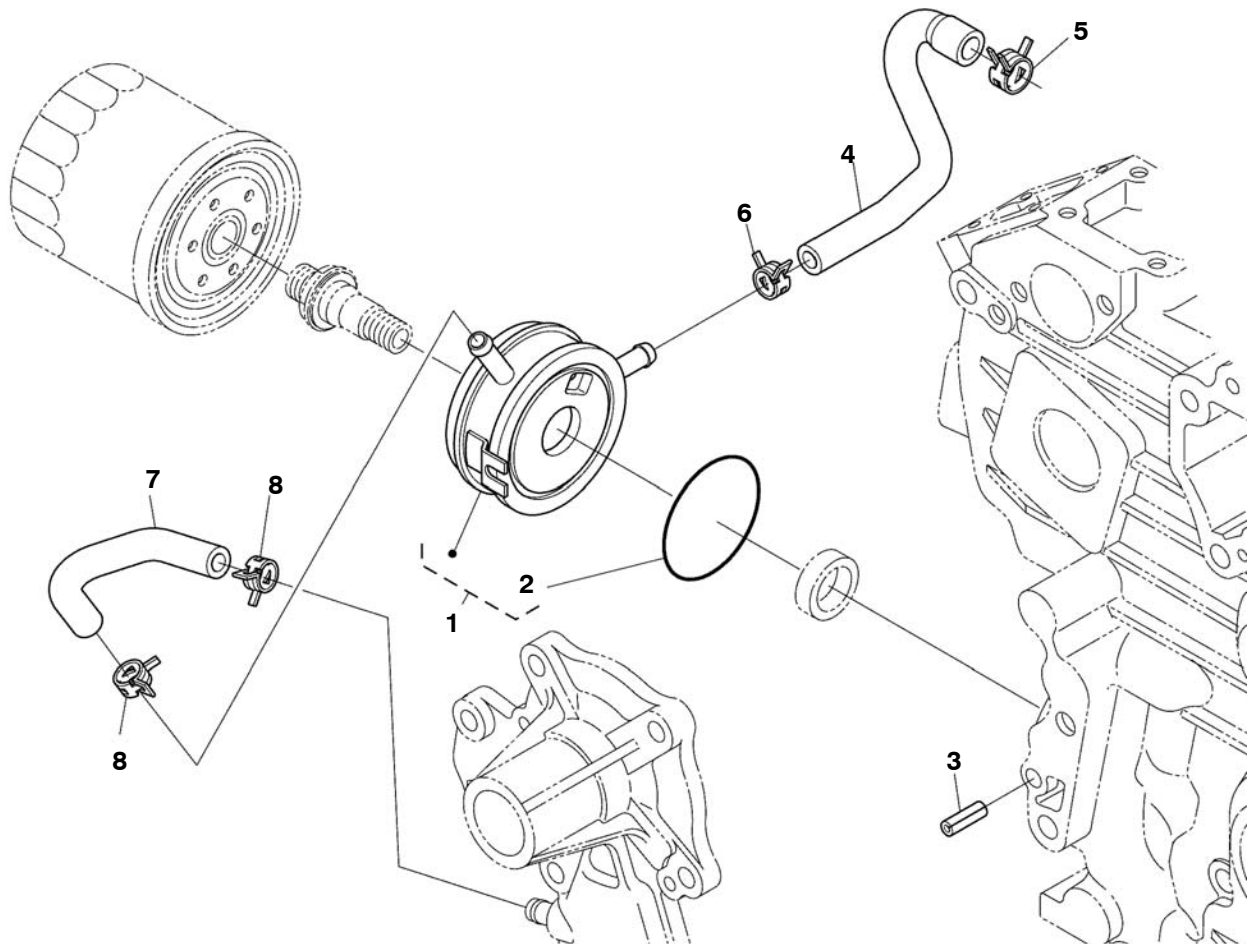
* Bolt and Gasket Removed with Installation of Oil Drain.

Oil Filter Assembly



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122-0893		Filter, Oil	4	508-1341	1	Collar (MDKBR, MDKBV)
2			Connector	5	122-0886	1	O'Ring
	122-0942	1	MDKBP				
	122-0944	1	MDKBR, MDKBV				
3	122-0943	1	Spacer (MDKBP)				

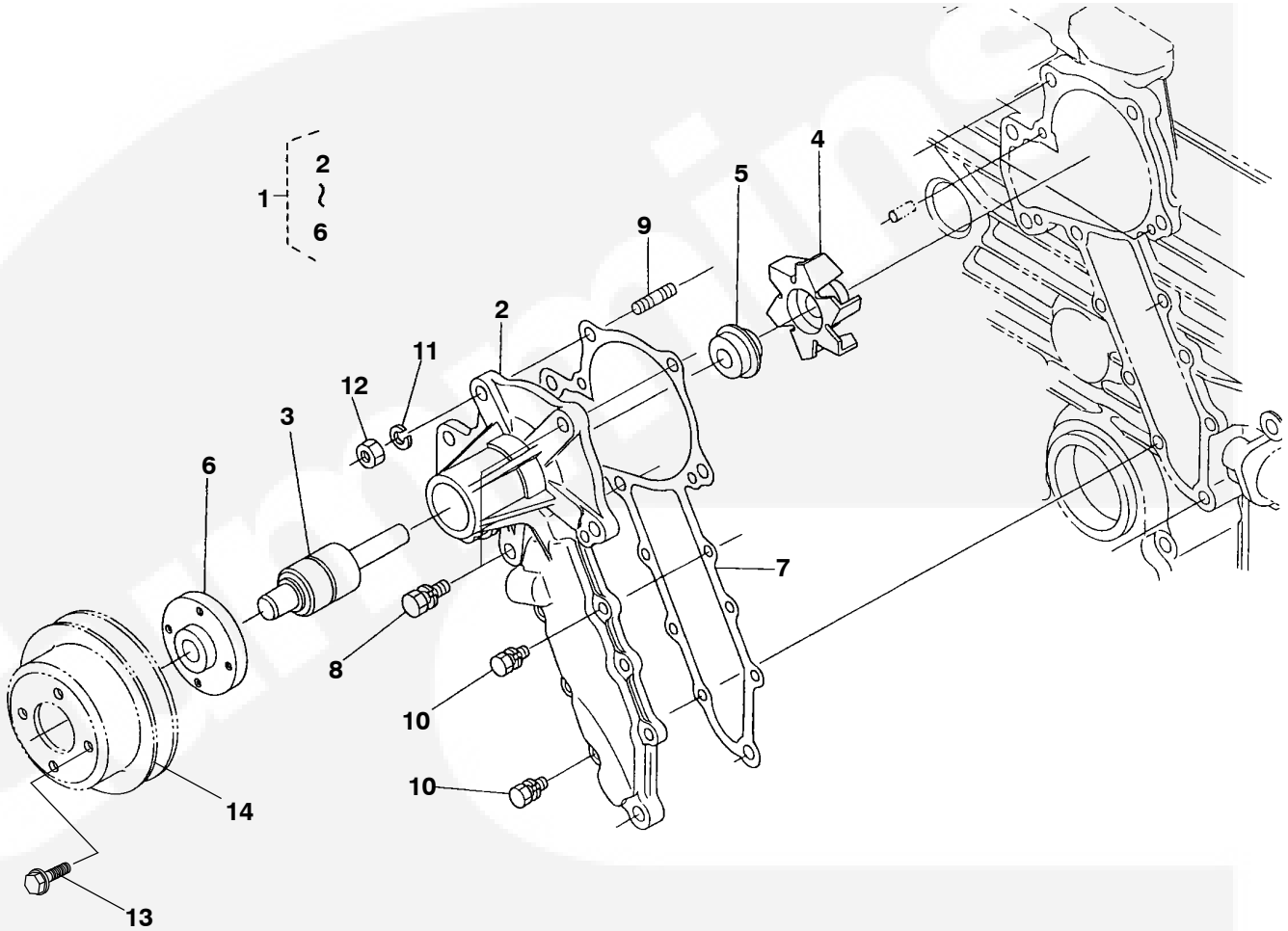
Oil Cooler



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-1567	1	Cooler, Oil	5	503-2552	1	Clamp, Hose
2	509-0554	1	O'Ring	6	185-6667	1	Clamp, Hose
3	516-2145	1	Pin, Spring	7	503-3129	1	Hose, Oil Cooler
4	503-3134	1	Hose, Oil Cooler	8	185-6667	2	Clamp, Hose



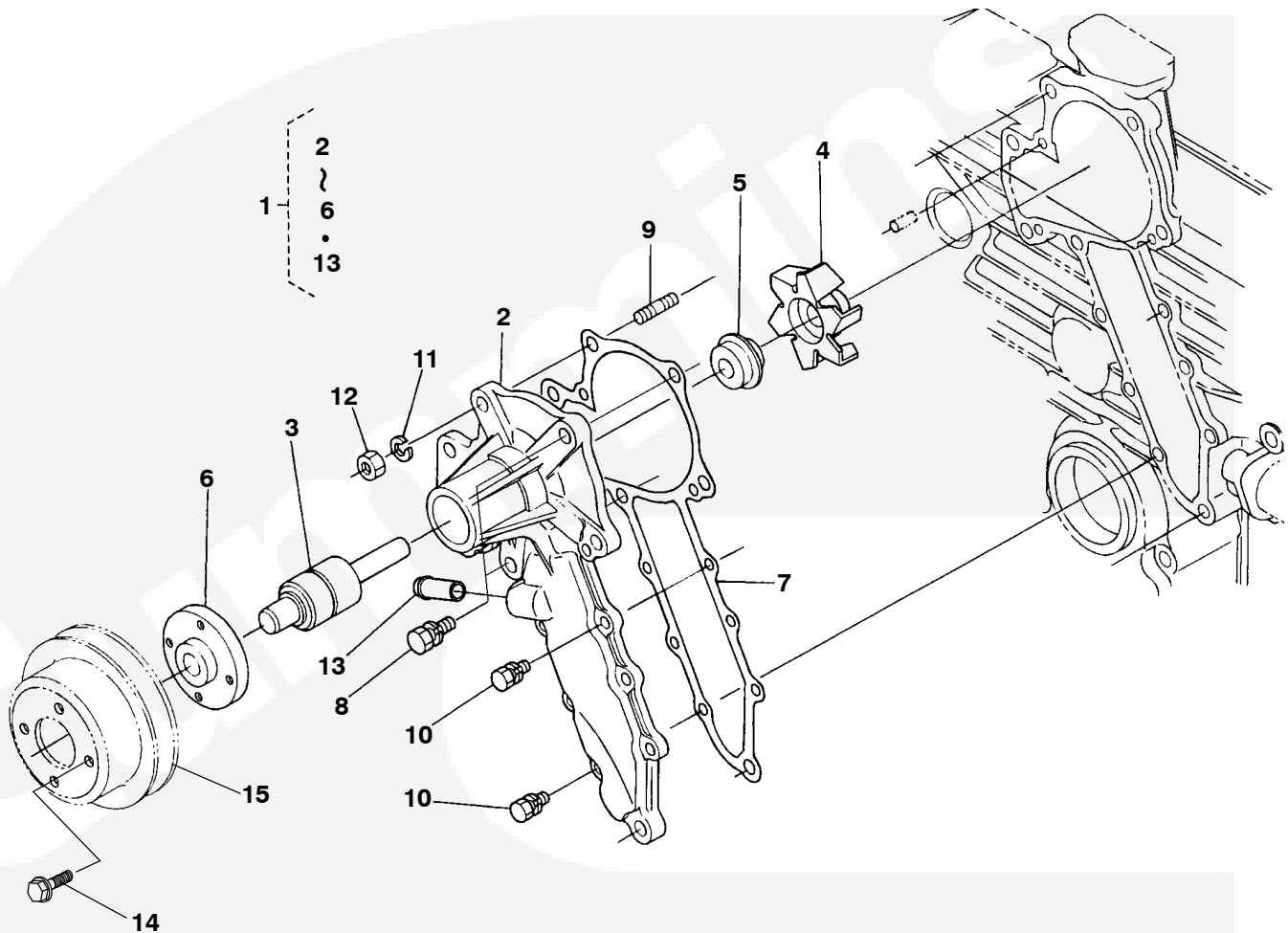
Water Pump MDKBP



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	132-0520	1	Pump Assy, Water (Includes Parts Marked *)	9	520-2655	1	Stud
2	132-0446	1	*Housing, Water Pump	10	185-2386	6	Bolt
3	185-6007	1	*Bearing	11	185-6957	1	Washer, Spring
4	132-0444	1	*Impeller, Water Pump	12	185-2367	1	Nut
5	185-7021	1	*Seal, Mechanical	13	185-7013	4	Bolt, Flange
6	130-6347	1	*Flange, with Pump Shaft	14	185-6013	1	Pulley
7	132-0447	1	Gasket, Water Pump				
8	185-2404	2	Bolt				

* - Parts Included in Water Pump Assy

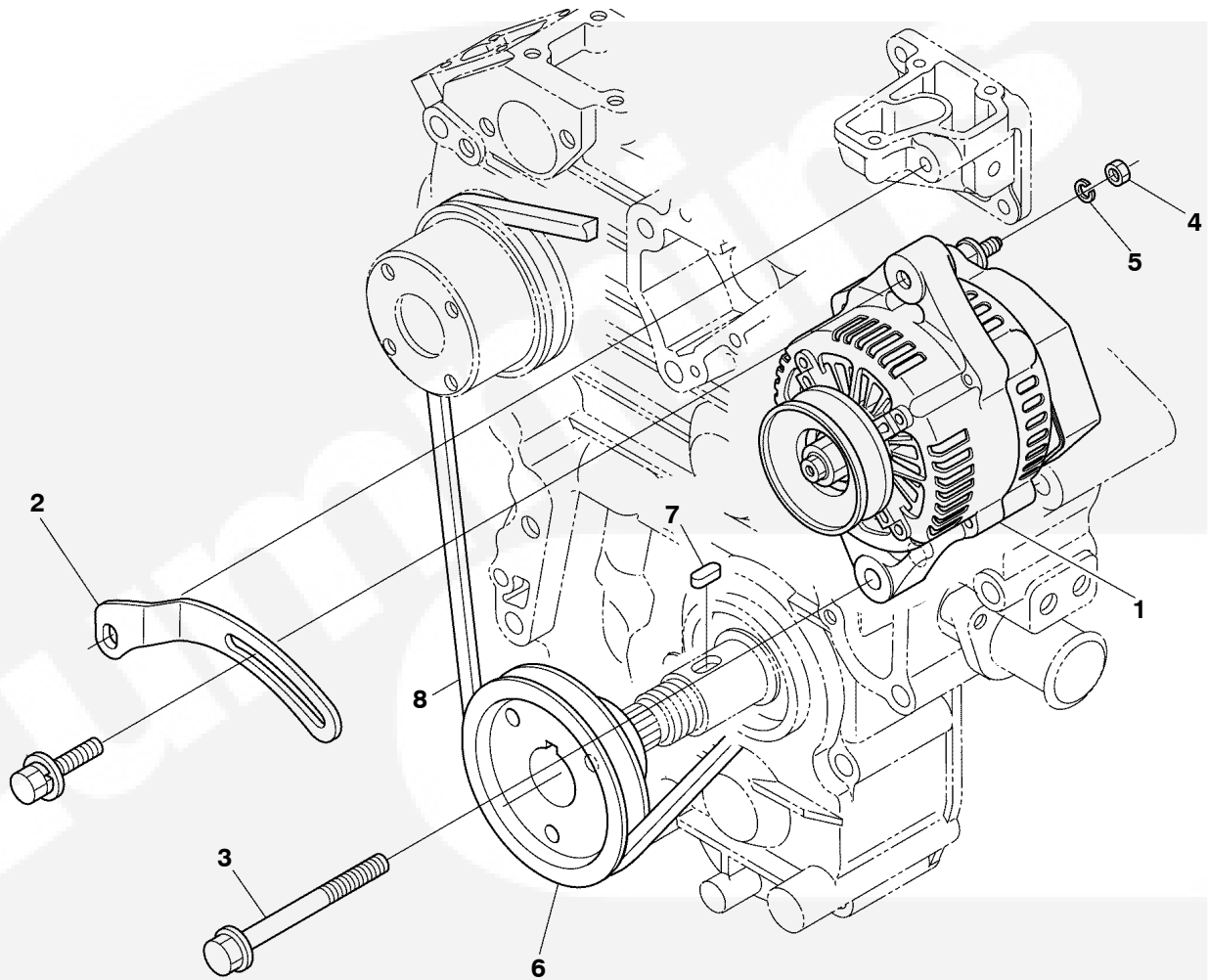
Water Pump MDKBR, MDKBV



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	132-0521	1	Pump Assy, Water (Includes Parts Marked *)	10	185-2389	6	Bolt
2	132-0446	1	*Housing, Water Pump	11	185-6957	1	Washer, Spring
3	185-6007	1	*Bearing	12	185-2367	1	Nut
4	132-0444	1	*Impeller, Water Pump	13	185-6445	1	Pipe, Water Return
5	185-7021	1	*Seal, Mechanical	14	185-7013	4	Bolt, Flange
6	130-6347	1	*Flange, with Pump Shaft	15	185-6013	1	Pulley
7	132-0447	1	Gasket, Water Pump				
8	185-2404	2	Bolt				
9	185-6241	1	Stud				

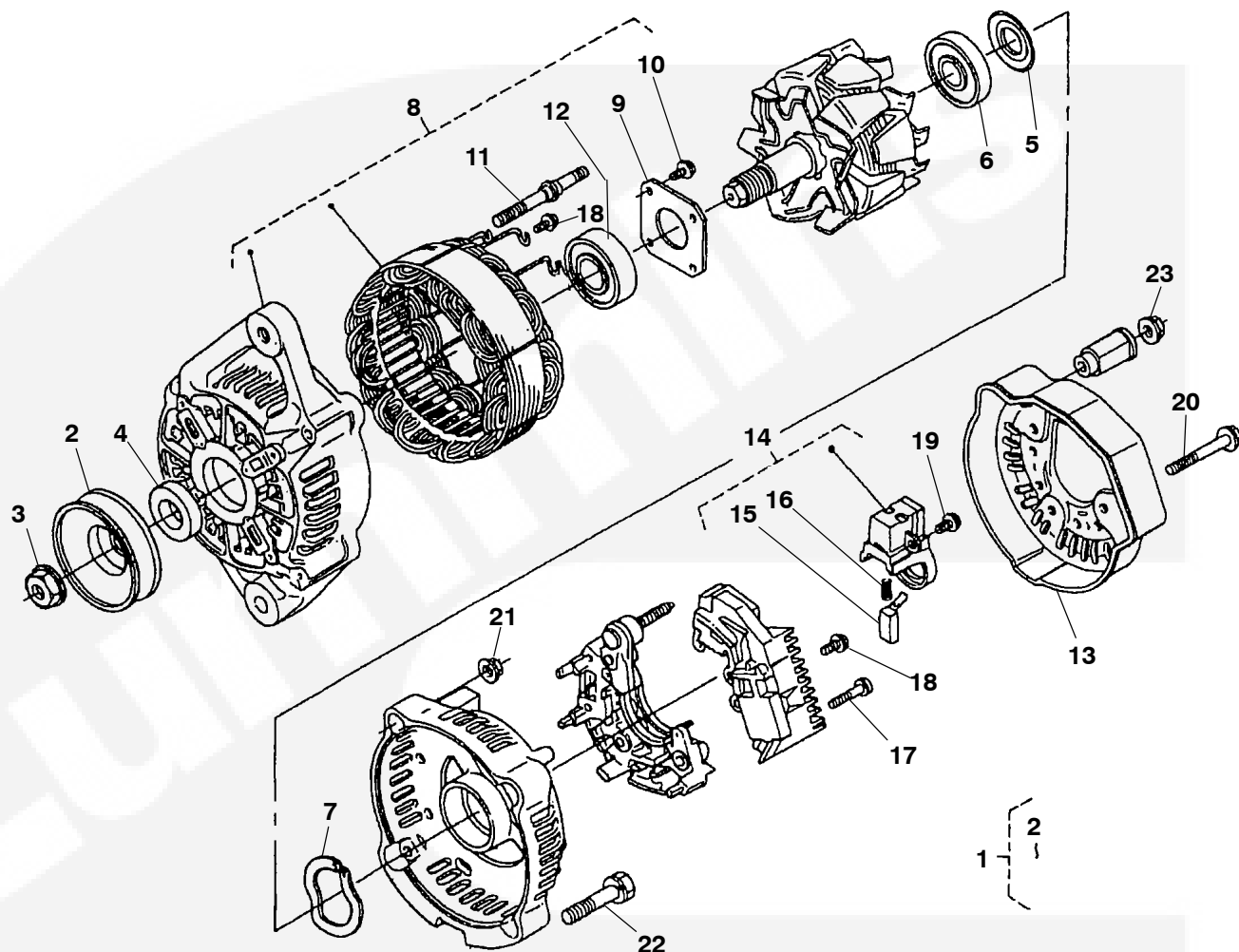
* - Parts Included in Water Pump Assy

Alternator (Negative Ground)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Alternator, Complete (See Separate Page for Components)	3	815-1596	1	Bolt
	185-5994	1	12V	4	185-4255	1	Nut
	185-6724	1	24V	5	185-6759	1	Washer, Spring
2			Bracket, Adjusting	6	512-0445	1	Pulley, Fan Drive
	191-2505	1	12V	7	185-5905	1	Key
	191-2506	1	24V	8			Belt
					185-7016		12V
					511-0252	1	24V

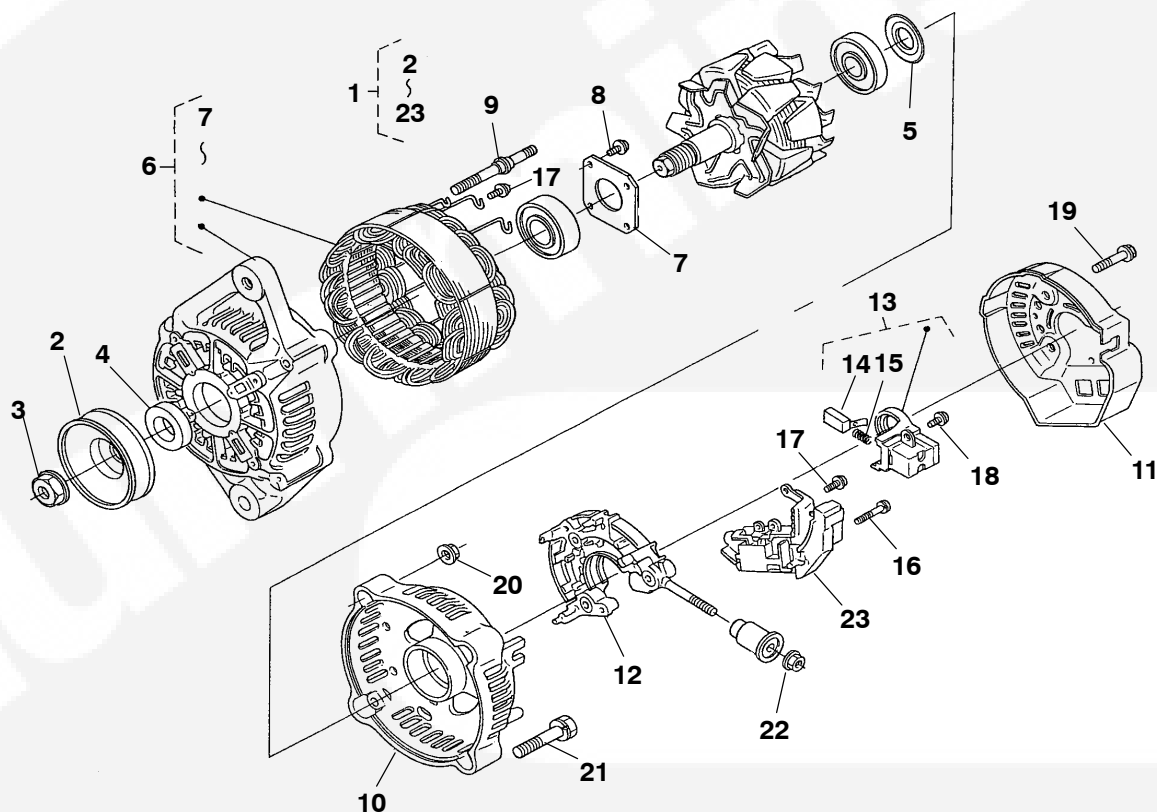
Alternator Components (Negative Ground) (12V)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5994	1	Assy., Alternator (12V)	14	185-6819	1	Holder Assy, Brush (Includes Brushes and Springs)
2	185-6186	1	Pulley	15	185-5783	2	Brush
3	185-5768	1	Nut	16	185-5784	2	Spring, Brush
4	185-5769	1	Collar	17	185-5785	2	Screw, Round Head
5	185-5771	1	Cover, Bearing	18	185-5786	6	Screw, Round Head
6	185-5777	1	Bearing	19	185-5787	1	Screw, Round Head
7	185-6787	1	Washer, Thrust	20	185-5788	3	Bolt
8	185-5773	1	Frame, Drive End (Includes Parts Marked *)	21	185-5789	2	Nut
9	185-5774	1	*Plate, Retainer	22	185-5790	2	Bolt
10	185-5775	4	*Screw, Round Head	23	185-2961	1	Nut
11	185-7076	2	*Bolt, Through				
12	185-6813	1	*Bearing				
13	185-6189	1	Cover, End				

* - Parts Included in Drive End Frame

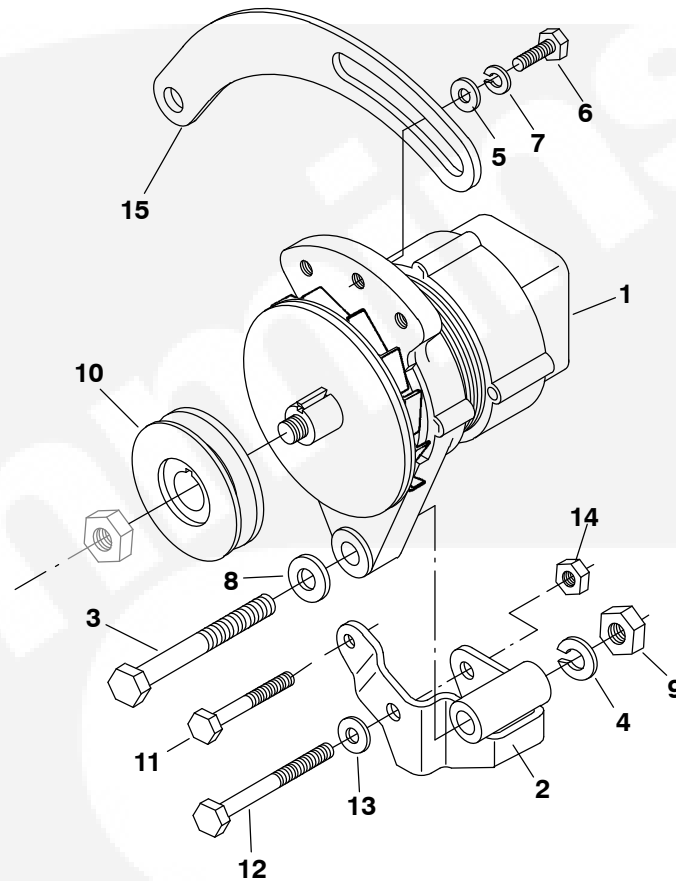
Alternator Components (Negative Ground) (24V)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6724	1	Alternator (24V)	13	185-6819	1	Holder Assy, Brush (Includes Brushes and Springs)
2	185-6809	1	Pulley	14	185-5783	2	Brush
3	185-5768	1	Nut	15	185-5784	2	Spring, Brush
4	185-5769	1	Collar	16	185-5785	2	Screw, Round Head
5	185-5771	1	Cover, Bearing	17	185-5786	6	Screw, Round Head
6	185-6812	1	Frame, Drive End (Includes Parts Marked *)	18	185-5787	1	Screw, Round Head
7	185-5774	1	*Plate, Retainer	19	185-5788	3	Bolt
8	185-5775	4	*Screw, Round Head	20	185-5789	2	Nut
9	185-7076	2	*Bolt, Through	21	185-5790	2	Bolt
10	181-9096	1	Frame, End	22	185-2961	1	Nut
11	185-6815	1	Cover, End	23	185-6820	1	Regulator
12	185-6816	1	Rectifier				

* - Parts Included in Drive End Frame

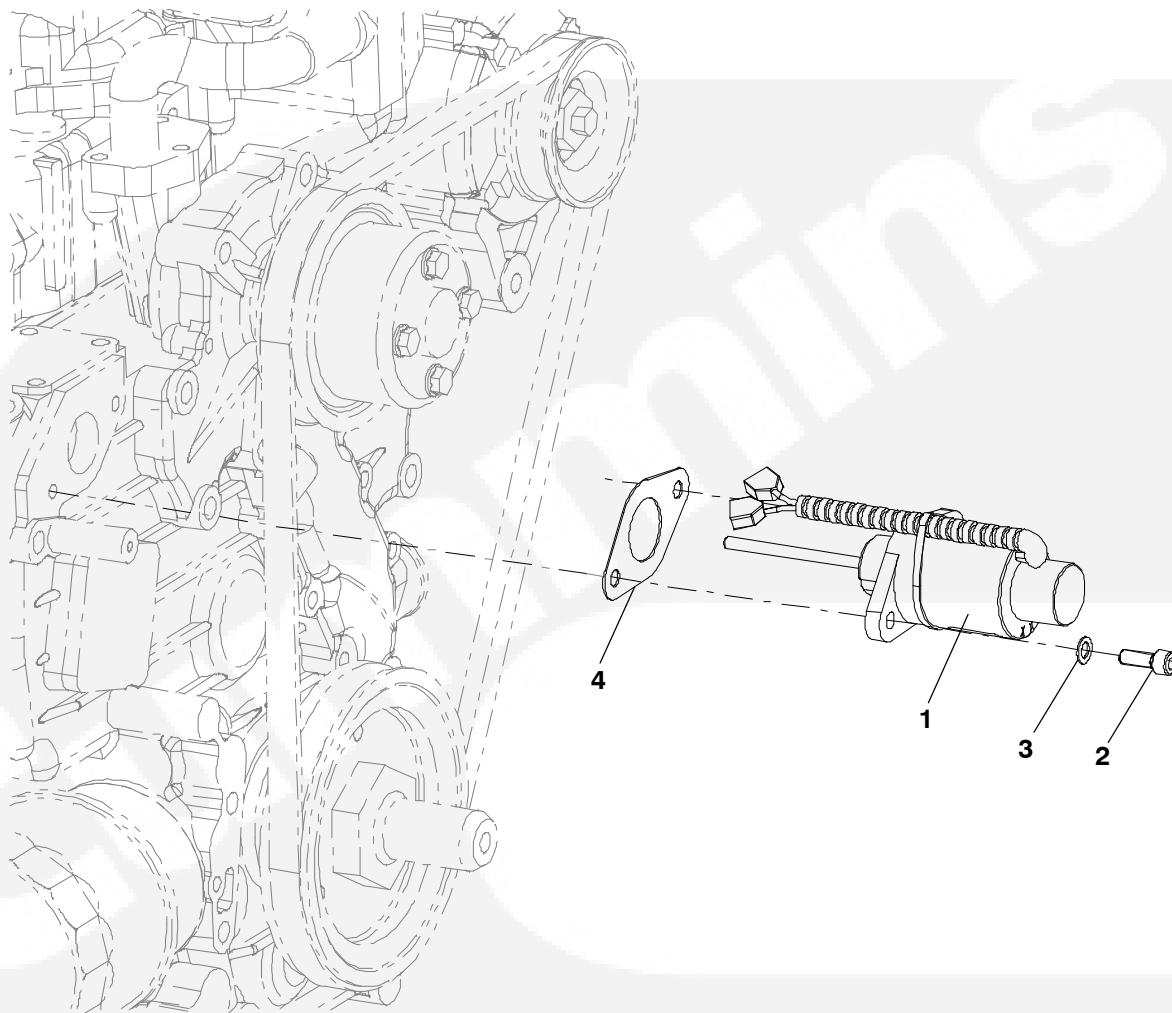
**Alternator
(Isolated Ground)
(12V/24V)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Alternator, Complete (No Components Available)	10	191-2170	1	Pulley, Alternator
	191-2169-02	1	12V	11	718-1048	1	Screw, Hex Head Cap (M8 x 80mm)
	191-2169-01	1	24V	12	800-2071	1	Screw, Hex Head Cap (M8 x 1.25 x 90mm)
2	191-2489-02	1	Bracket, Alternator	13	526-0451	1	Washer, Flat
3	800-0104	1	Screw, Hex Head Cap (1/2-13 x 4-1/2")	14	870-2055	1	Nut, Hex-Lock Flange (M8 x 1.25)
4	850-0060	1	Washer, Lock (1/2")	15	A026K127	1	Bracket, Adjustable Alternator
5	850-0045	1	Washer, Flat (5/16")				
6	800-0027	1	Screw, Hex Head Cap (5/16-18 x 7/8")				
7	526-0045	1	Washer, Lock (5/16")				
8	526-0219	1	Washer, Flat (1/2")				
9	862-0016	1	Nut (1/2-13)				

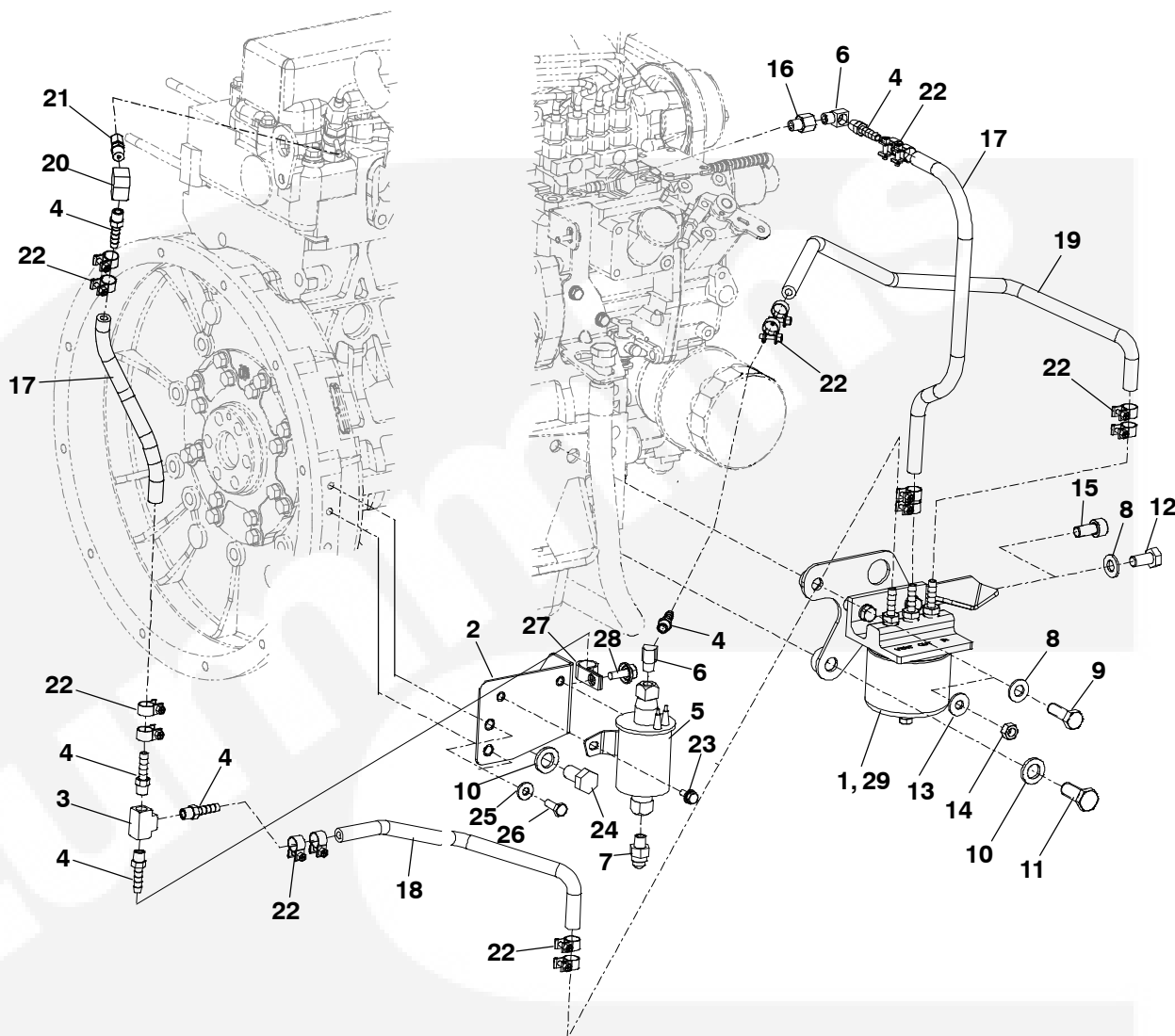
* - Alternator ties to G2-GND, Iso Ground Harness
(See Isolated Ground 338-4200-01)

Governor Actuator



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	306-5316-01	1	Actuator, Governor 12V
	306-5316-02	1	24V
2	725-1027	2	Screw, Socket Head Cap (M6 x 16mm)
3	526-0063	2	Washer, Copper (1/32")
4	150-2918	1	Gasket, Solenoid Cover

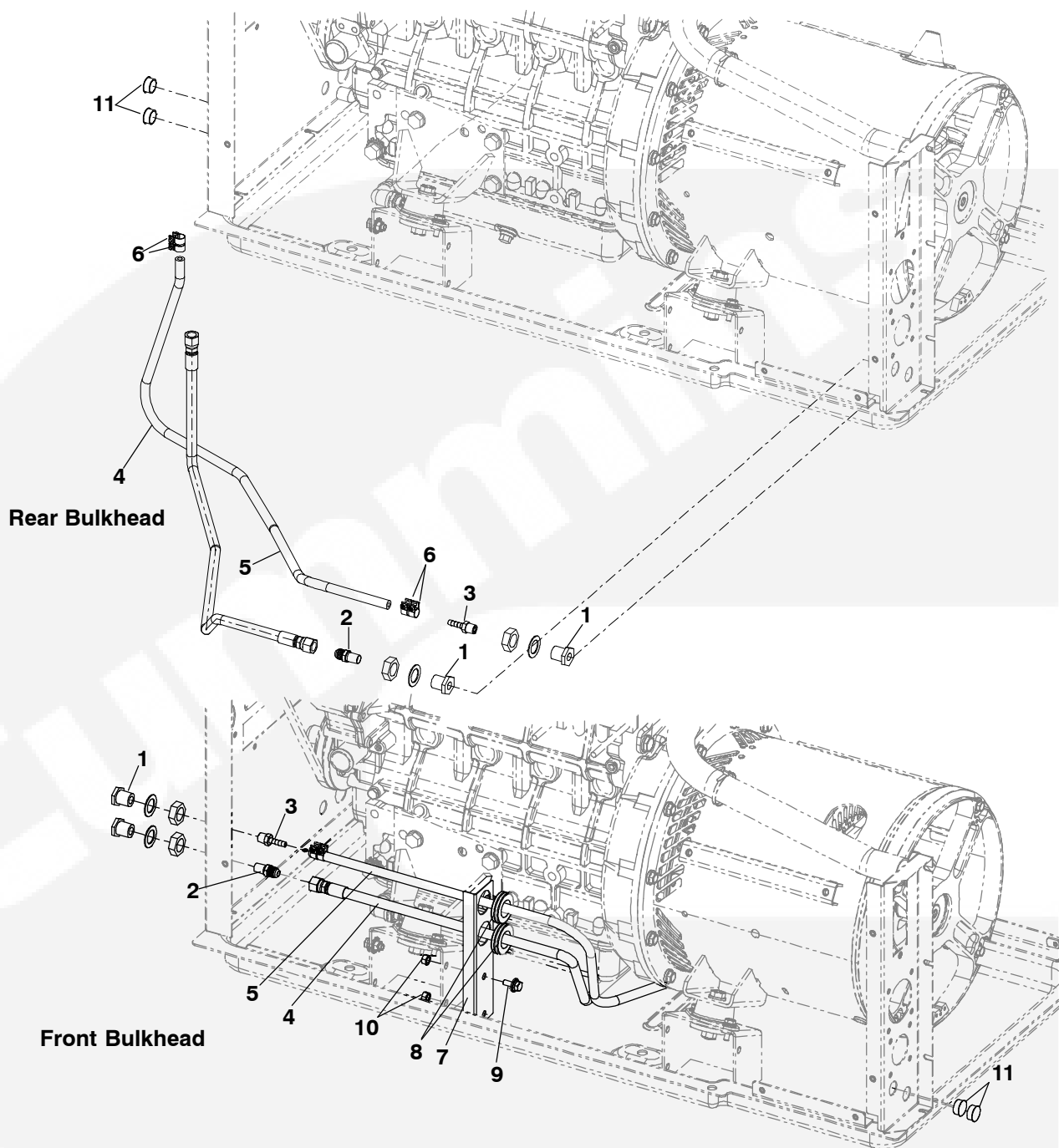
Fuel System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0891	1	Fuel, System
2	149-2862-03	1	Bracket, Fuel Pump
3	502-0079	1	Tee
4	502-1367-01	6	Connector, Hose
5			Pump, Fuel
	149-2646	1	12V
	149-2795	1	24V
6	502-0020-01	1	Elbow, 90°
7	505-1490	1	Connector, Male
8	526-2120	1	Washer, Flat (M10)
9	800-3005	1	Screw, Hex Head (M10 x 1.25 x 30mm)
10	526-0399-64	1	Washer, Flat (M12)
11	800-3032	1	Screw, Hex Head (M12 x 1.25 x 30mm)
12	800-3004	1	Screw, Hex Head Cap (M10 x 1.25 x 20mm)
13	526-2106	1	Washer, Flat (M8)
14	860-2008	1	Nut, Hex (M8 x 1.25mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
15	815-0904	1	Screw, Socket Head Cap
16	502-0175	1	Adapter, Pipe (1/8")
17	503-2806	1	Hose, Fuel
18	503-2883-11	1	Hose, Fuel
19	503-2883-12	1	Hose, Fuel
20	502-0055	1	Elbow, Pipe
21	502-1245	1	Adapter, Pipe
22	503-2808	16	Clamp, Hose
23	821-6002-02	2	Screw, Hex Head Sems (M6 x 1.0 x 12mm)
24	800-3031	1	Screw, Hex Head Cap (M12 x 1.25 x 25mm)
25	526-0399-13	2	Washer, Flat
26	800-0310-04	2	Screw, Hex Head Cap
27	518-0548-08	1	Clamp, Hose
28	821-6003-01	1	Screw, Hex Head Sems (M8 x 1.25 x 16mm)
29	149-2634-01	1	Filter, Fuel (Not Shown)

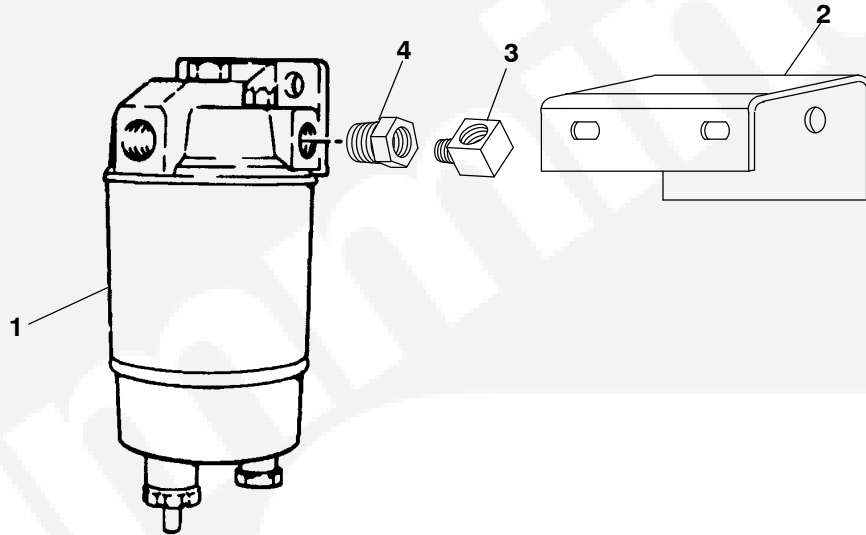
Fuel Transfer Lines



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	502-1133	2	Coupling, Anchor	8	508-0117	1	*Grommet (1") Front Housed
2	502-1615	1	Coupling, Hose	9	821-6003-01	2	*Screw, Hex Head Sems (M8 x 1.25 x 16mm)
3	502-1367-02	1	Connector, Hose (1/4NPT x 1/4 Hose)	10	750-1006	2	*Nut, Hex (M8 x 1.25mm)
4	503-2588-06	1	Hose, Fuel	11	517-0136-01	2	Plug, Hole Housed Only
5	503-2935-03	1	Hose, Fuel				
6	503-2808	4	Clamp, Hose				
7	149-2759-03	1	*Bracket, Fuel Line (Front Housed)				

*-Front Housed Only

Remote Water Separator

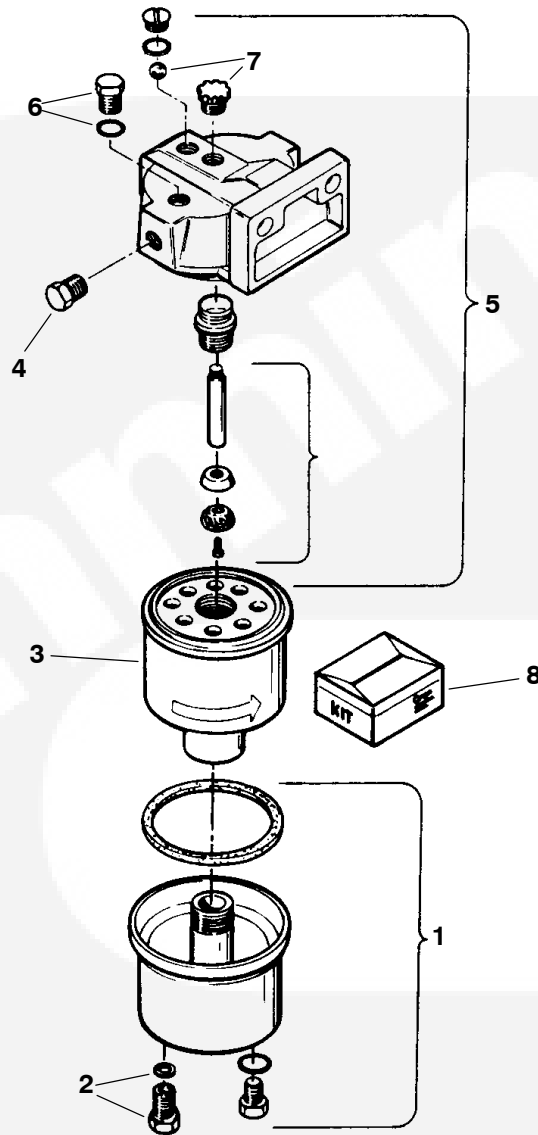


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	A026M935	1	Kit, Remote Fuel/Water Separator
1	149-1908-05	1	Separator, Fuel/Water (See Separate Page for Components)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
2	149-2041-03	1	Bracket, Separator Mounting
3	502-0020-01	1	Elbow, Street 90Degrees
4	502-0029	2	Bushing, Pipe



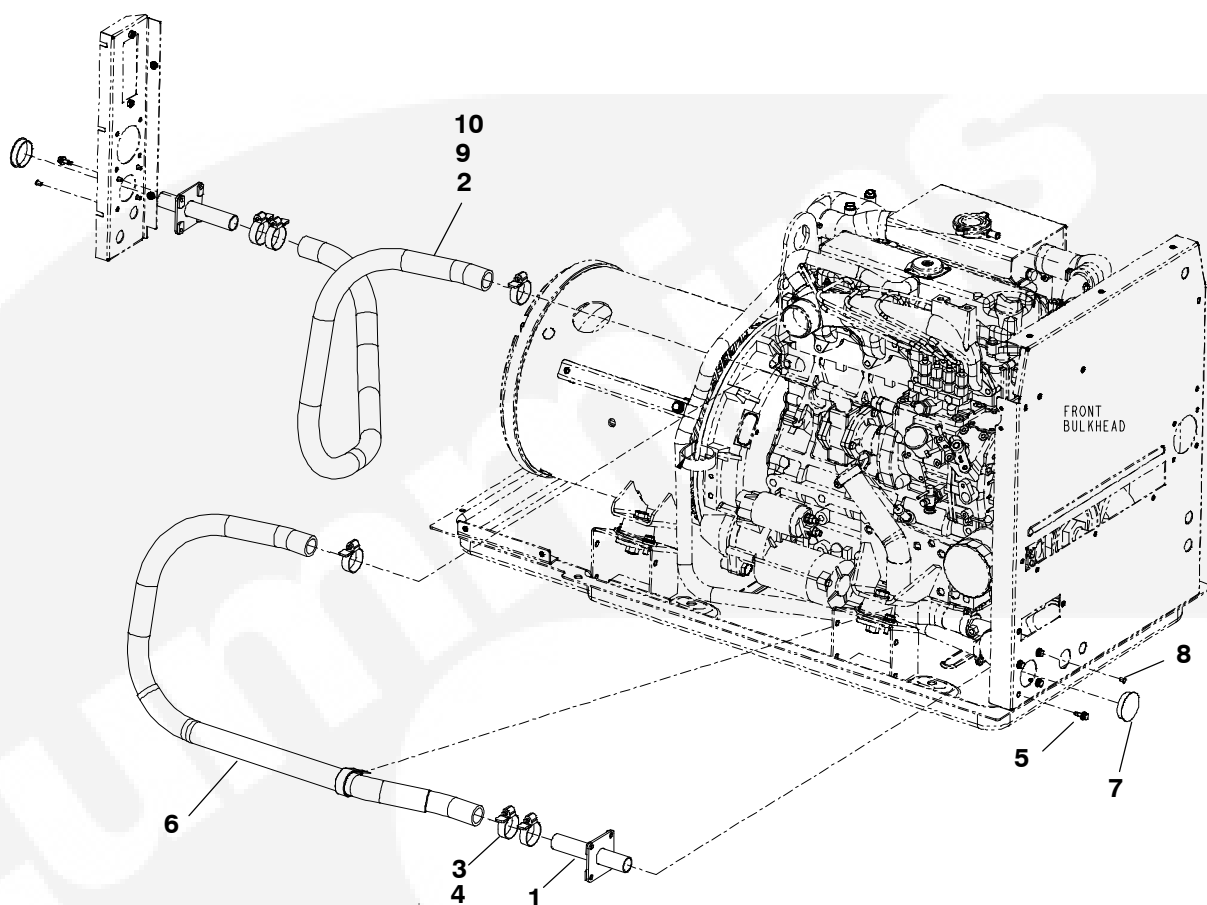
Water Separator Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-1908-05	1	Separator, Water	7	149-2047	1	Pump Assy (Includes Plunger, Retainer, Shaft, Check Ball, Knob and Screw)
	149-2046	1	Kit, Metal Bowl Replacement (Includes Plug, O-Rings and Drain Assy)	8	149-2045	1	O'Ring Kit (Includes Seal and Plunger)
2	149-1953	1	Drain Assy (Includes Knob and Seal)				
3	149-1914-05	1	Element (Includes Seals)				
4	502-0153	1	Plug, Hex (1/4")				
5	149-1949	1	Head Assy, Replacement (Includes Vent Plug, O-Rings, Seal, Cap, Tube and Pump Assy)				
6	149-1952	1	Plug, Vent (Includes O-Ring)				

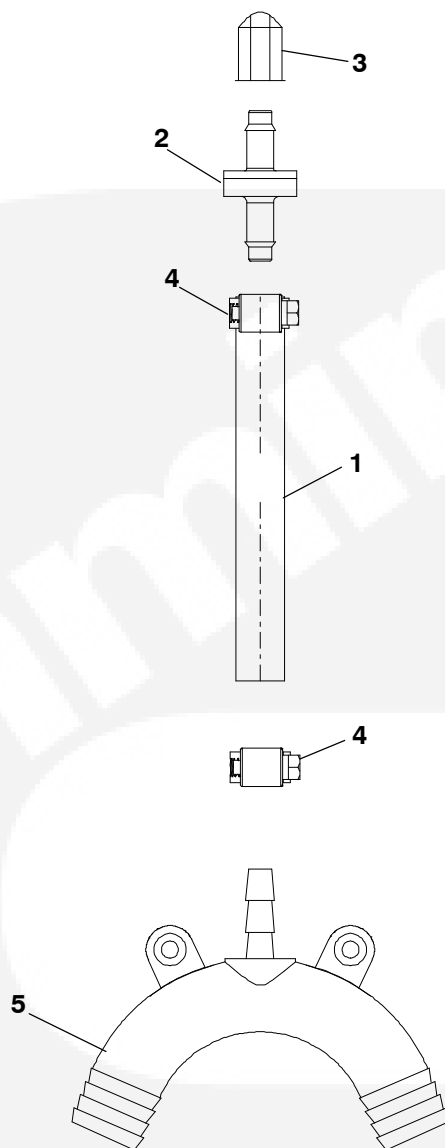
* - Parts not shown but included in kit.

Water Inlet



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	404-0058	1	Assy Bulkhead	7	517-0131-02	4	Plug, (Hole Housed Only)
2	501-0997-02		Assy Hose (Water)	8	503-2984	1	Clamp, Hose (J-Style Front Housed Only)
	501-0997-01		Front, Rear Housed	9		1	Hose, Water
3	503-1137	3	Clamp, Hose		503-2953		Rear Unhoused
4	503-2823	3	Clamp, Hose (Cover		503-2954		Front, Rear Housed
5	800-6395-01	4	Screw, Hex Head Sems (M6 x 1.0 x 16mm)	10	898-1311-05	1	Sleeve, Nylon Mesh
6	517-0138-07	1	Plug, (Hole Housed Only)				

Break Siphon



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-0876-01	1	Kit, Siphon Break
1	503-2728-01	1	Hose, Coolant
2	504-0223	1	Valve, Check
3	502-1425-02	1	Cap, Tube
4	503-2309	2	Clamp, Hose
5	502-1463	1	Connector, Hose

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	503-0977	2	*Clamp, Hose
7	508-1102	2	*Grommet, Rubber

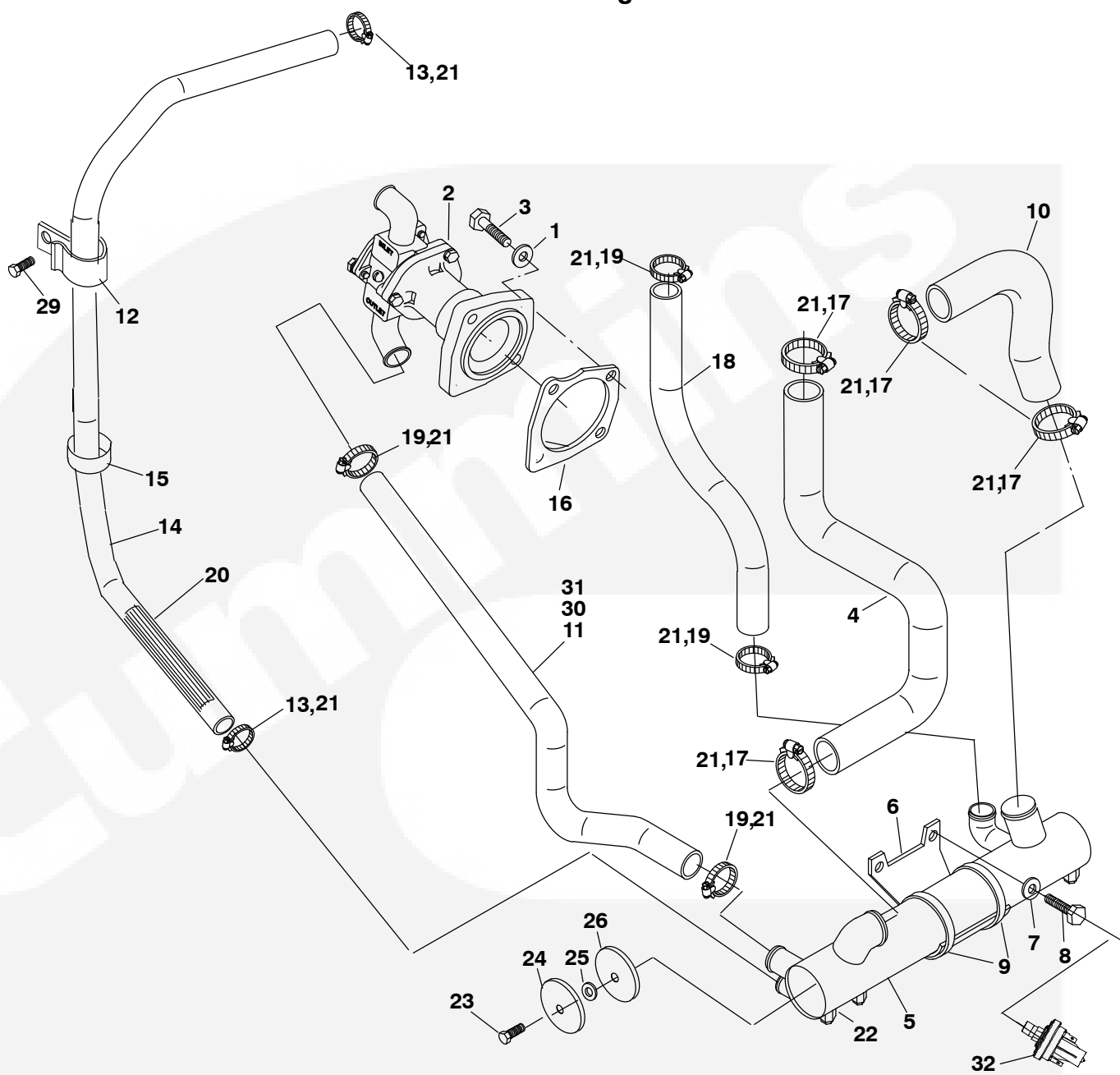
* - Parts not shown but included in kit.



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Heat Exchanger



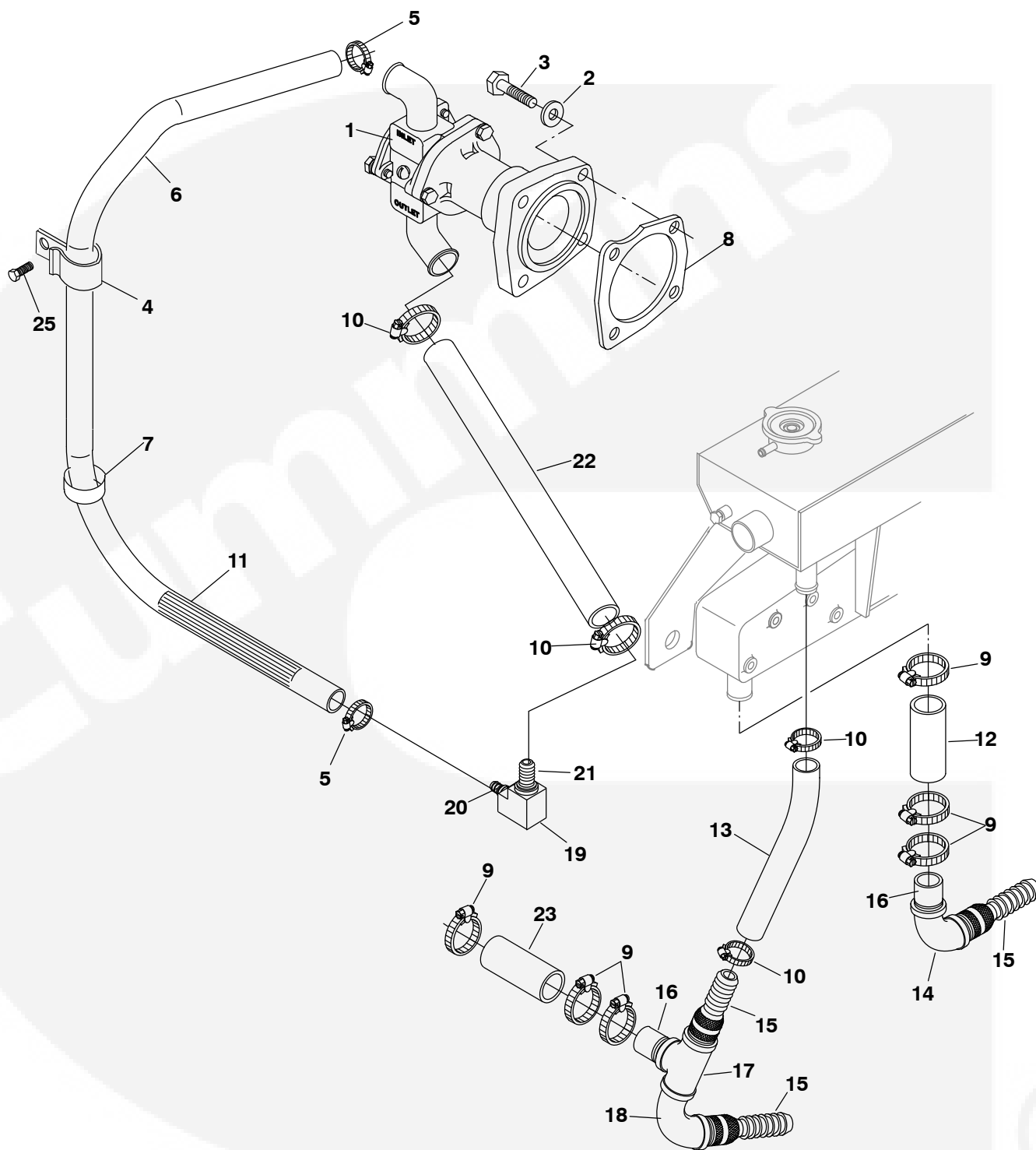
Heat Exchanger

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	526-2100	5	Washer, Flat (M8)				(5/16-18 x 3/4")
2	132-0413	1	Pump, Water	24	130-3721	1	Cover (Brass)
3	800-2057	4	Screw, Hex Head Cap (M8 x 1.25 x 20mm)	25	509-0351		O-Ring
4	503-1977	1	Hose	26	130-4960		+Gasket (Rubber) (w/ Zinc pen- cil
5	130-7986-02	1	Exchanger, Heat	27	130-4566		Gasket (Rubber) (without Zinc pencil hole)
6	130-7987-02	1	Bracket, Heater Exchanger	28	130-4961		+Pencil, Zinc
7	526-2120	2	Washer, Flat (M10)	29	821-6003-01	1	Screw, Hex Head
8	800-3004	2	Screw, Hex Head Cap ((M10 x 1.25 x 20mm)	30	503-2910	1	Hose, Coolant
9	503-1143	2	Clamp, Hose	31	898-1311-02	1	Sleeving Nylon Mesh
10	503-1896	1	Hose, Coolant	32	309-0717	1	Switch, Pressure
11	503-2909	1	Hose, Coolant	33	130-4979	1	Kit, End Cap
12	327-0923	1	Clamp, "J" (Wet Exhaust)		850-0165	1	*Lockwasher, Helical
13	503-1136	2	Clamp, Hose (Wet Exhaust)		098-7541	1	*Label, Zinc Anode
14	503-2122	1	Hose, Coolant (Wet Exhaust)	34	130-5012	1	Assembly, End Cap
15	130-4830	1	Clamp, Hose (2 OD Wet Exhaust)		130-4962-01	1	+Cap, Heat Exchanger
16	132-0346	1	Gasket, Water Pump				
17	503-1138	8	Clamp, Hose				
18	503-1163	1	Hose, Coolant				
19	503-1137	4	Clamp, Hose				
20	898-1311-01	1	Sleeving (Wet Exhaust)				
21			Clamp, Hose (Cover)				
	503-2823	14	Dry Exhaust				
	503-2823	16	Wet Exhaust				
22	130-4434	1	Pencil, Zinc (W/Screw)				
23	800-0317	1	*Screw, Hex Head				

* Parts Included in End Cap Kit.
+ Parts Included in End Cap Assembly

NOTE: 132-0413 Water Pump has been superseded to
A029U129

Keel Cooling



Keel Cooling

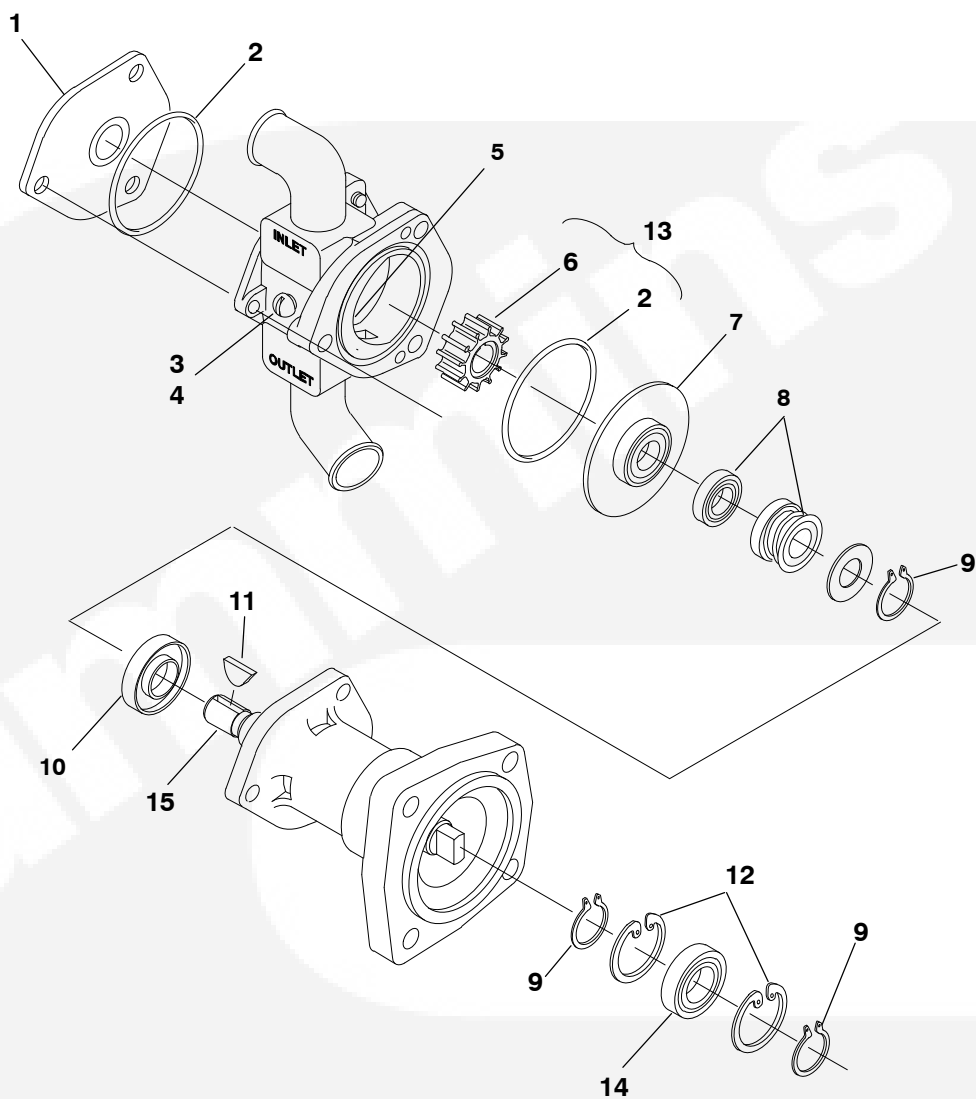
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	132-0413	1	Pump, Raw Water
2	526-2100	4	Washer, Flat (M8)
3	800-2057	4	Screw, Hex Head (M8 x 1.25 x 20mm)
4	327-0923	1	Clamp "J"
5	503-1136	2	Clamp, Hose
6	503-2122-01	1	Hose, Coolant
7	130-4830	1	Clamp, Hose
8	132-0346	1	Gasket, Water Pump
9	503-1138	10	Clamp, Hose
10	503-1137	4	Clamp, Hose
11	898-1311-01	2	Sleeving
12	503-2023	2	Hose, Coolant
13	503-2079	1	Outlet, Keel Cooling
14	505-0041	1	Elbow, (1 x 90)
15	505-0759	3	Nipple, Combination

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
16	505-0446-01	2	Nipple, Half
17	505-0304	1	Tee (1")
18	505-0003	1	Elbow, (1" x 90)
19	502-1297	1	Elbow, 90
20	502-1295-01	1	Adapter, (3/4" x 5/8")
21	502-1295-02	1	Adapter, (3/4" x 1")
22	503-2079	1	Outlet, Keel Cooling
23	503-2823	2	Hose, Coolant
24	503-2823	16	Cover, Hose Clamp
25	821-6003-01	1	Screw, Hex Head (Not Shown)

* - Parts Included in Keel Cooling Kit.

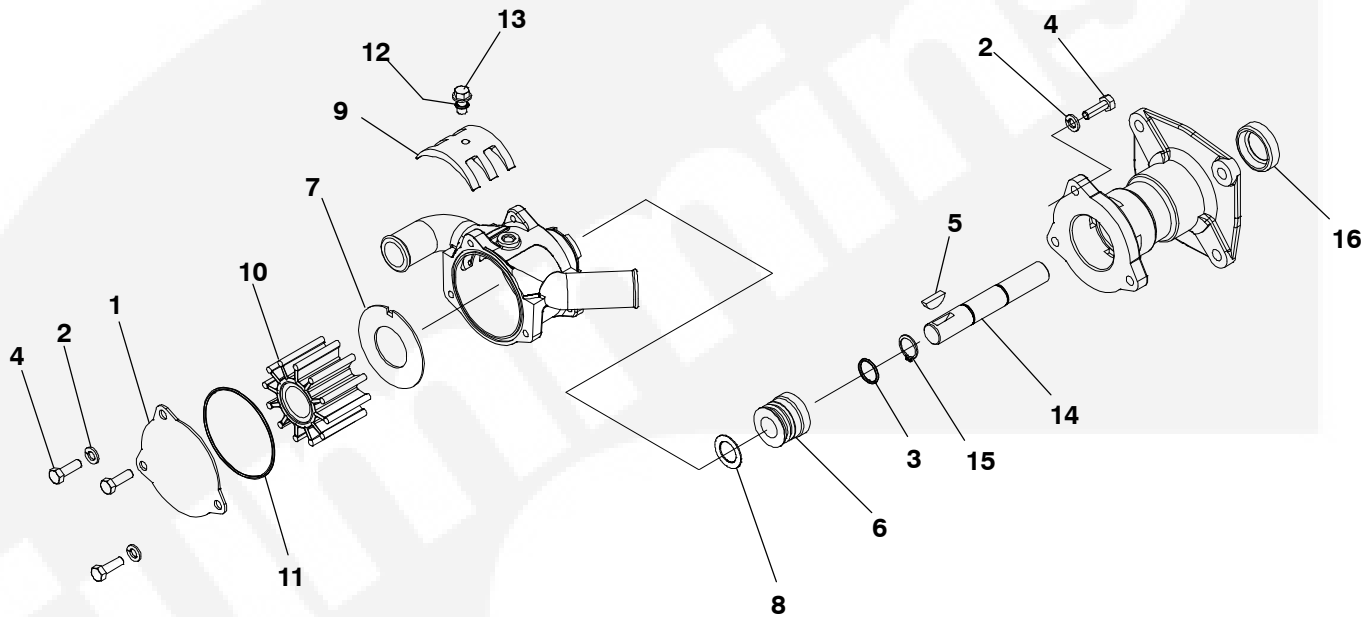
NOTE: 132-0413 Water Pump has been superseded to A029U129

Water Pump Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1523	1	Kit, Major Service (Includes Parts Marked *)	9	132-0393	3	*Ring, Retaining
1	132-0386	1	*Cover	10	132-0394	1	*Seal, Lip
2	132-0293	2	*O'Ring	11	132-0391	1	*Key
3	132-0390	1	*Screw, Cam	12	132-0392	2	*Ring, Retaining
4	132-0389	1	*Washer, Seal	13	541-1521	1	Kit, Minor Water Pump Service (Includes Impeller and O'Ring)
5	132-0388	1	*Cam	14	132-0417	1	Bearing
6	132-0499	1	*Impeller	15	132-0416	1	Shaft
7	132-0385	1	*Plate, Wear		132-0420	1	Ring, Retaining (Not Shown)
8	132-0387	1	*Seal, Seat Assy				

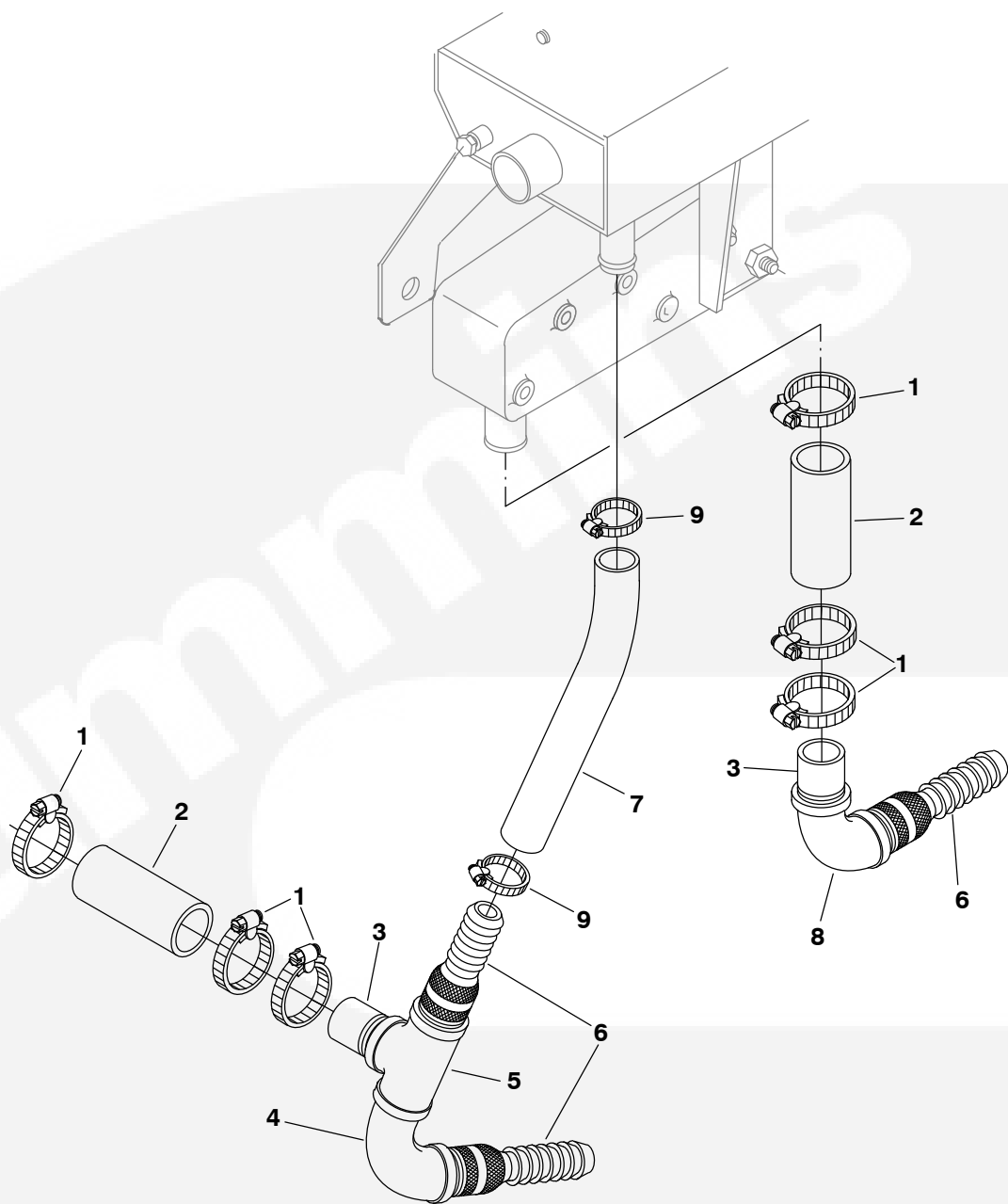
Water Pump



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	A029U129	1	Pump, Water (Supercedes 132-0413 Water Pump)
	A029U137	1	Kit, Major Service (Includes Parts Marked *)
	0541-1521	1	Kit, Minor Service (Includes Parts Marked #)
1	A029U684	1	*Cover, Plate
2	0850-2089	6	Washer, Spring - Lock
3	A029V897	1	*Seal, O Ring
4	A034T924	6	Screw, Hex Head (M6 x 1 x 20)
5	0132-0391	1	*Key
6	0132-0387	1	*Kit, Mechanical Seal

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	A029U686	1	*Plate, Bearing
8	0132-0368	1	*Washer
9	0132-0388	1	*Cam
10	0132-0499	1	*#Impeller, Water Pump
11	0132-0293	1	*#Gasket, Water Pump
12	A029U695	1	*Seal, O Ring
13	A029U693	1	*Seal, Hex Flange Head
14	A029V899	1	Shaft, Water Pump
15	0132-0393	1	*Ring, Retaining
16	A029U690	1	*Seal, Shaft
17	A029W624	1	*Sheet, Instruction

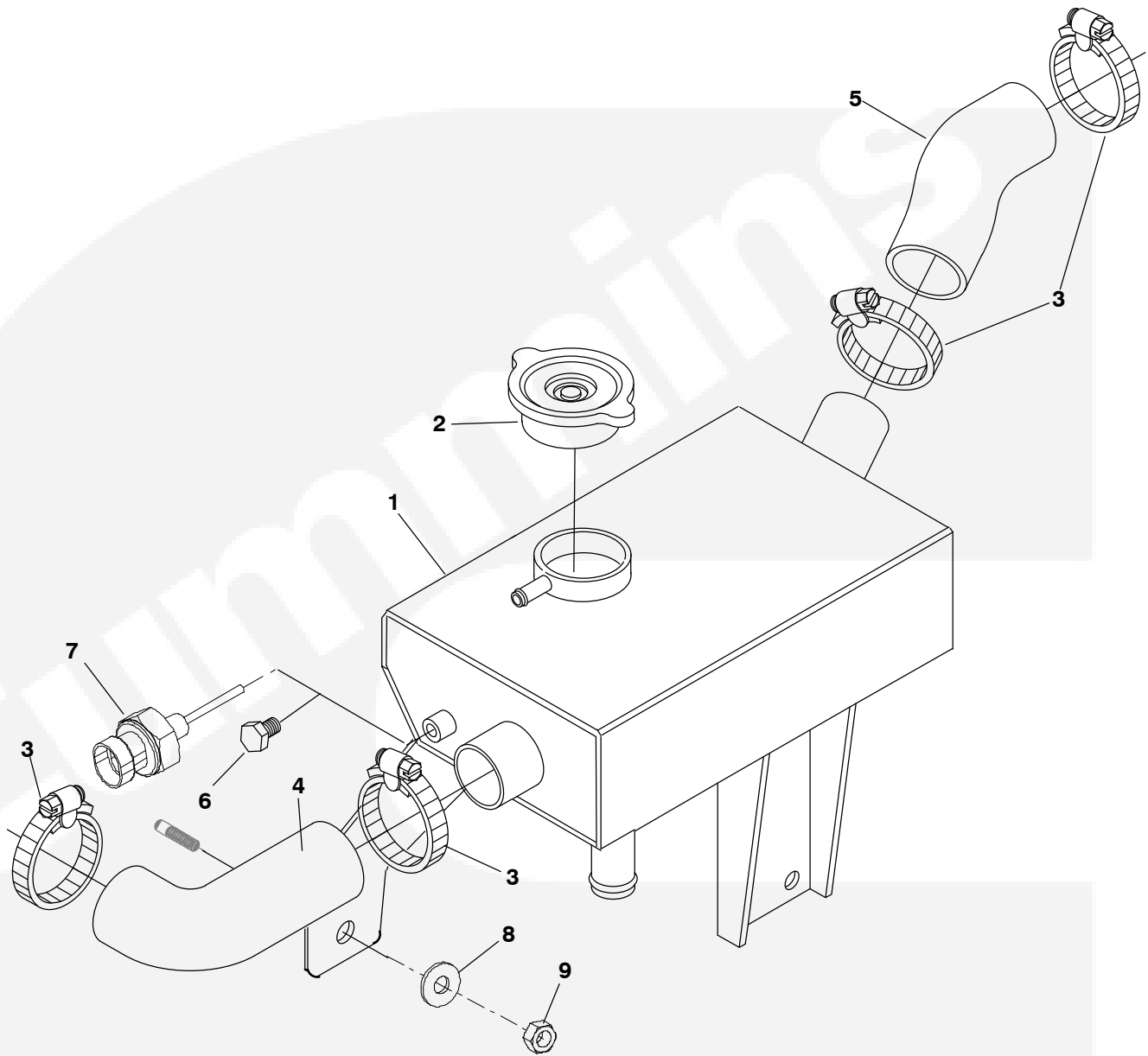
Keel Cooling System (Dry Exhaust)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	155-3087	1	Kit, Keel Cooling (Includes Parts Marked *)	7	503-2079	1	*Hose, Coolant (1" x 10")
	155-3284	1	Kit, Exhaust	8	505-0041	1	*Elbow
1	503-1138	6	Clamp, Hose (1-3/8")	9	503-1137	2	Clamp, Hose (1")
2	503-2023	2	*Hose, Coolant (1-3/8" x 4")				
3	505-0446-01	2	*Nipple, Half				
4	505-0003	1	*Elbow				
5	505-0304	1	Tee				
6	505-0759	3	*Barb, Hose				

* - Parts Included in Keel Cooling Kit. (Also Includes Cover, Gasket and Hardware Found on Cylinder Block Page.)

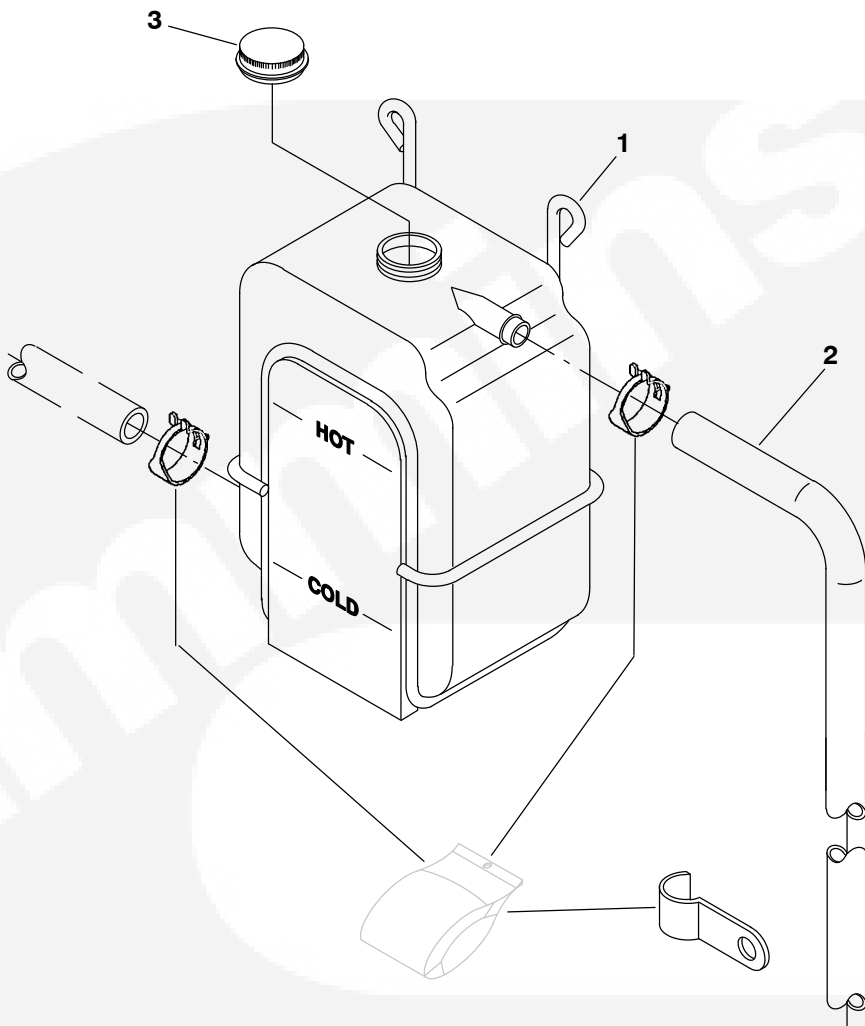
Coolant Tank



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-7881-02	1	Tank, Coolant
2	130-3721	1	Cap, Tank
3			Clamp, Hose (1-3/8")
	503-1138	4	Heat Exchange
	503-1138	4	Keel Cooling
	503-2823	4	Wet
	503-2823	4	Dry

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4			Hose, Upper Elbow
	503-1898	1	MDKBP
	503-1999	1	MDKBR, MDKBV
5	503-1899	1	Hose, Upper "S"
			(1-3/8")
6	502-0153	1	Plug, Hex Pipe (1/4)
7	193-0468	1	Sender, Low Coolant
8	526-2100	1	Washer, Flat
9	750-1006	1	Nut, Hex Head

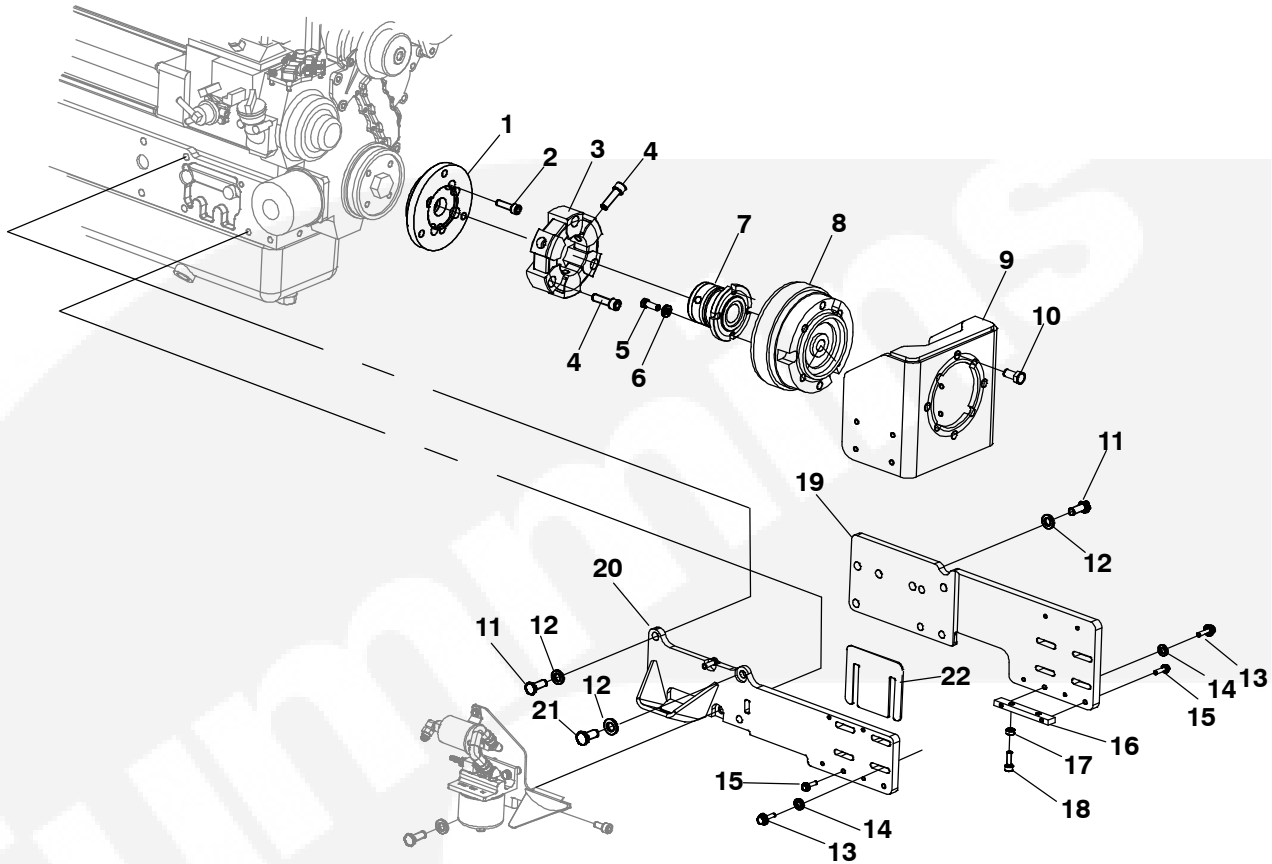
Coolant Recovery



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



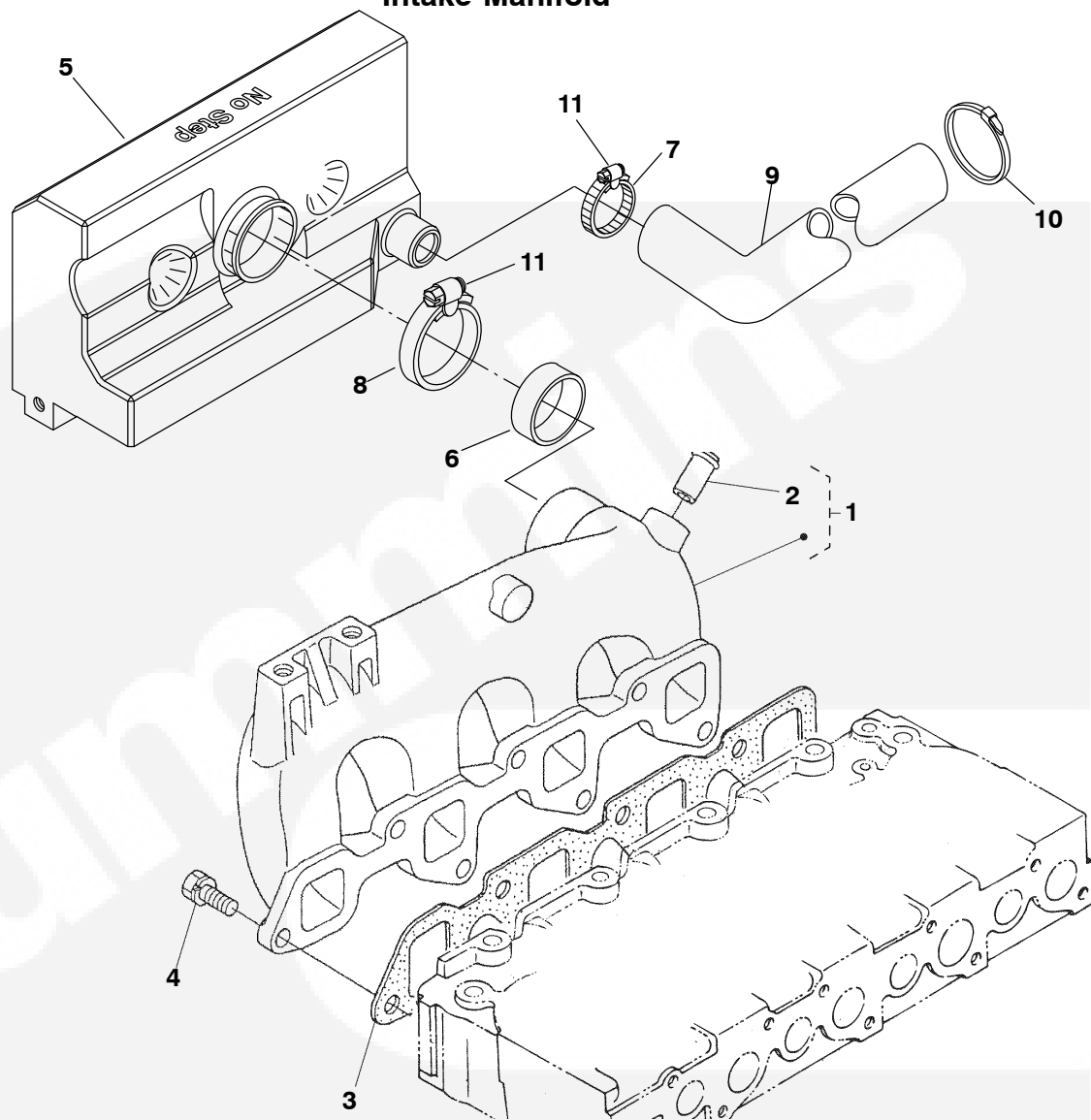
PTO



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	190-0763-02	1	*Adapter, Coupling	14	526-0451	8	*Washer, Flat Stainless (M8)
2	725-1053	3	*Screw, Socket Head Cap	15	821-2035	4	*Screw, Locking Flange (M6 x 1 x 25mm)
3	190-0768	1	*Coupling, Flex	16	190-0766-03	2	*Bracket, Mounting Pad
4	725-1103	6	*Screw, Socket Head Cap (M12 x 1.75 x 40mm)	17	862-0026-55	4	*Nut, Hex (M8)
5	801-1050	4	*Screw, Hex Head Cap (3/8-24 x 1")	18	815-0916	4	*Screw, Socket Head (M8 x 1.25 x 25mm)
6	526-0174	4	*Washer, Flat	19	190-0792-04	1	*Bracket, PTO (Left)
7	190-0767-02	1	*Adapter, Coupling	20	190-0896-02	1	*Bracket, PTO (Right)
8			*Clutch	21	800-3033	1	*Screw, Hex Head Cap (M12 x 1.25 x 25mm)
	190-0729-01	1	12V	22			*Shim, PTO
	190-0729-02	1	24V		190-0771-02 AR		.12 GA
9	190-0769-04	1	*Bracket, PTO Clutch		190-0771-04 AR		.14 GA
10	800-0090	2	*Screw, Hex Head Cap (1/2-13 x 1.00")		190-0771-06 AR		.20 GA
11	800-3032	9	*Screw, Hex Head Cap				
12	526-0399-64	10	*Washer, Flat (M12)				
13	800-2515	8	*Screw, Hex Head (M8 x 1.25 x 30mm)				

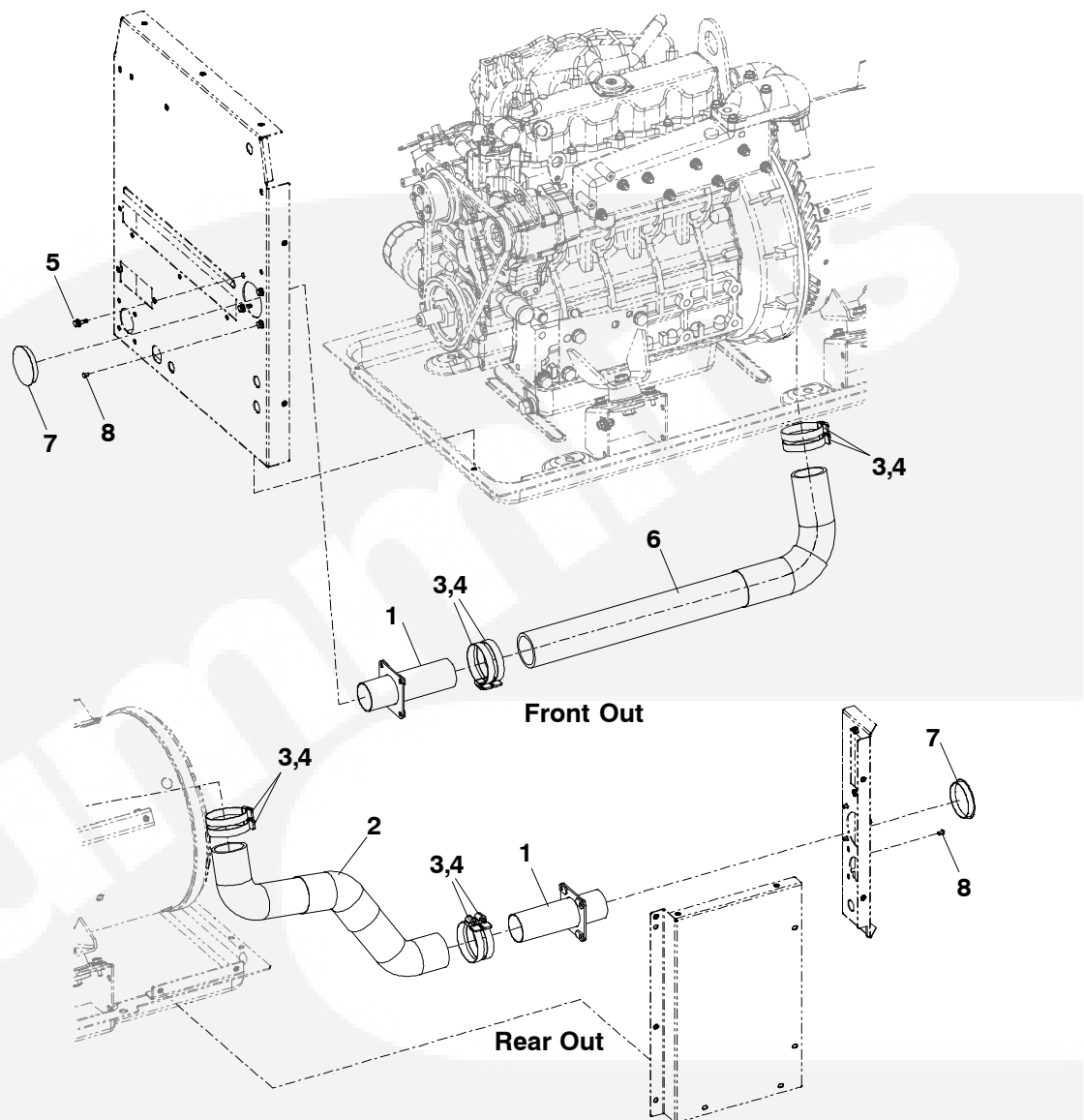
* - Parts Included in PTO Kit. (Also Includes Fuel Pump Mounting Hardware Found on Fuel Pump Page)

Intake Manifold



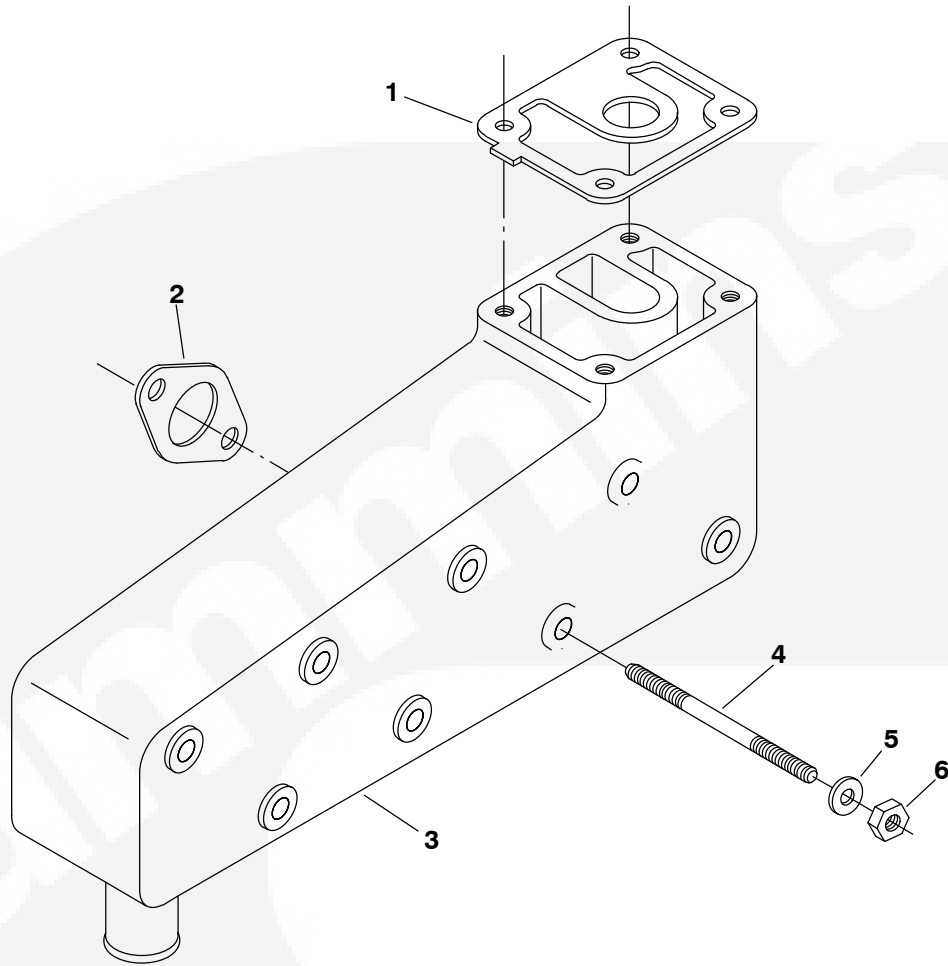
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6715	1	Manifold Assy, Intake	7	503-1138	1	*Clamp, Hose
2	185-6723	1	Joint, Breather	8	503-1143	1	Clamp, Hose (3")
3	185-6035	1	Gasket	9	503-1939	1	Hose, Intake
4	185-2402	7	Bolt	10	332-1389	1	Cable, Tie
5	140-2859	1	Resonator, Intake	11	503-2823	2	Cover, Hose Clamp
6	140-3048	1	Sleeve, Air Intake				

Bulkhead Exhaust



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	404-0057	1	Bulkhead Assy, Exhaust	5	800-6395-01	4	Screw, Hex Head Sems (M6 x 1.0 x 16mm)
2	501-0909-01	1	Hose, (Rear)	6	501-1005	1	Hose, (Front Housed)
3	503-1142	4	Clamp, Hose	7	517-0138-09	1	Plug, Hole (Housed)
4	503-2823	4	Clamp, Hose (Cover)	8	517-0131-02	4	Plug, Hole (Housed)

Exhaust Manifold

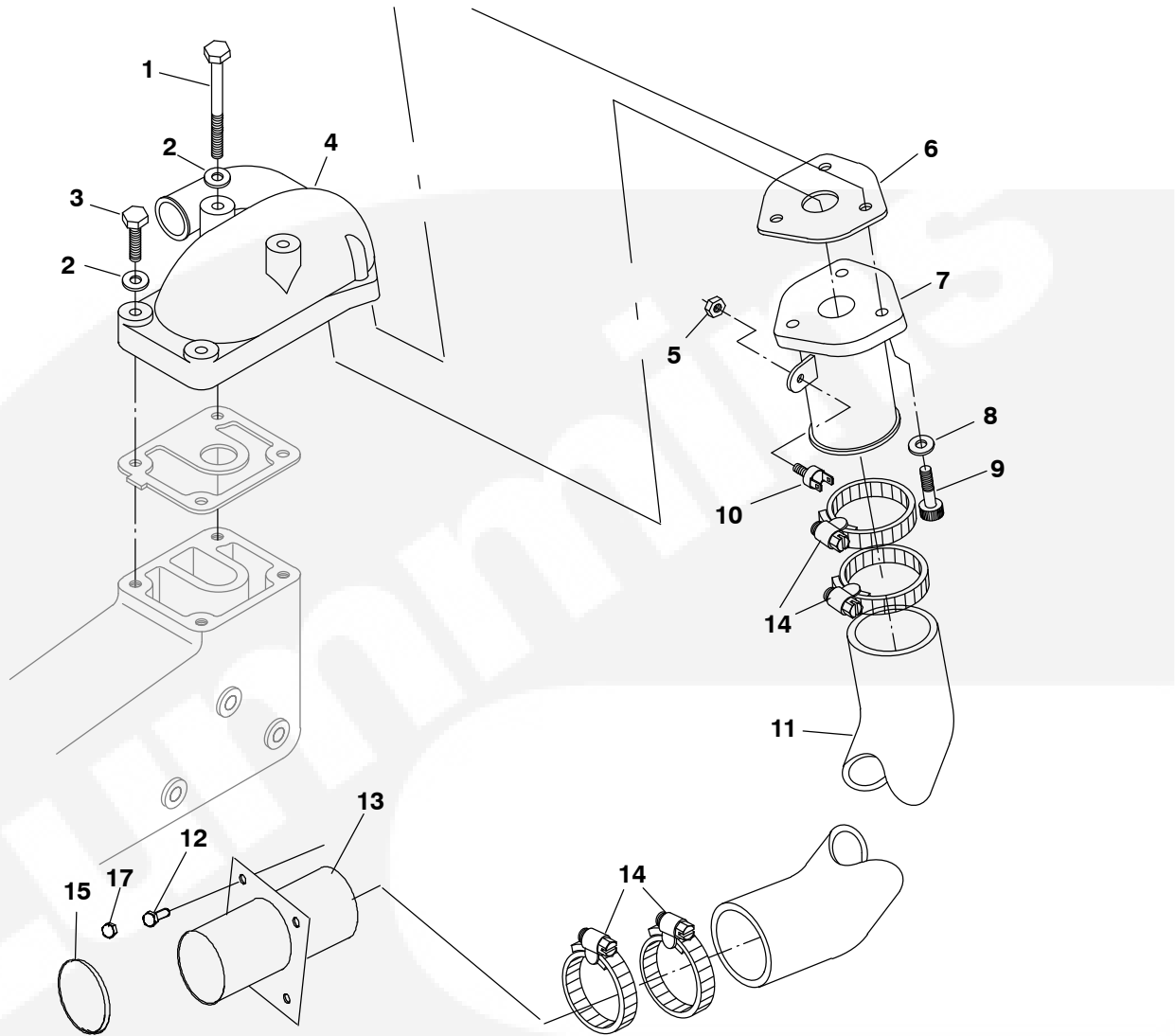


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-2975	1	*Gasket, Riser, Adapter
2	154-2915	4	Gasket, Exhaust Manifold
3	154-2887	1	Manifold, Exhaust
4	520-2218	8	Stud

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	526-2100	8	Washer, Flat (M8)
6	750-1006	8	Nut (M8 x 1.25)

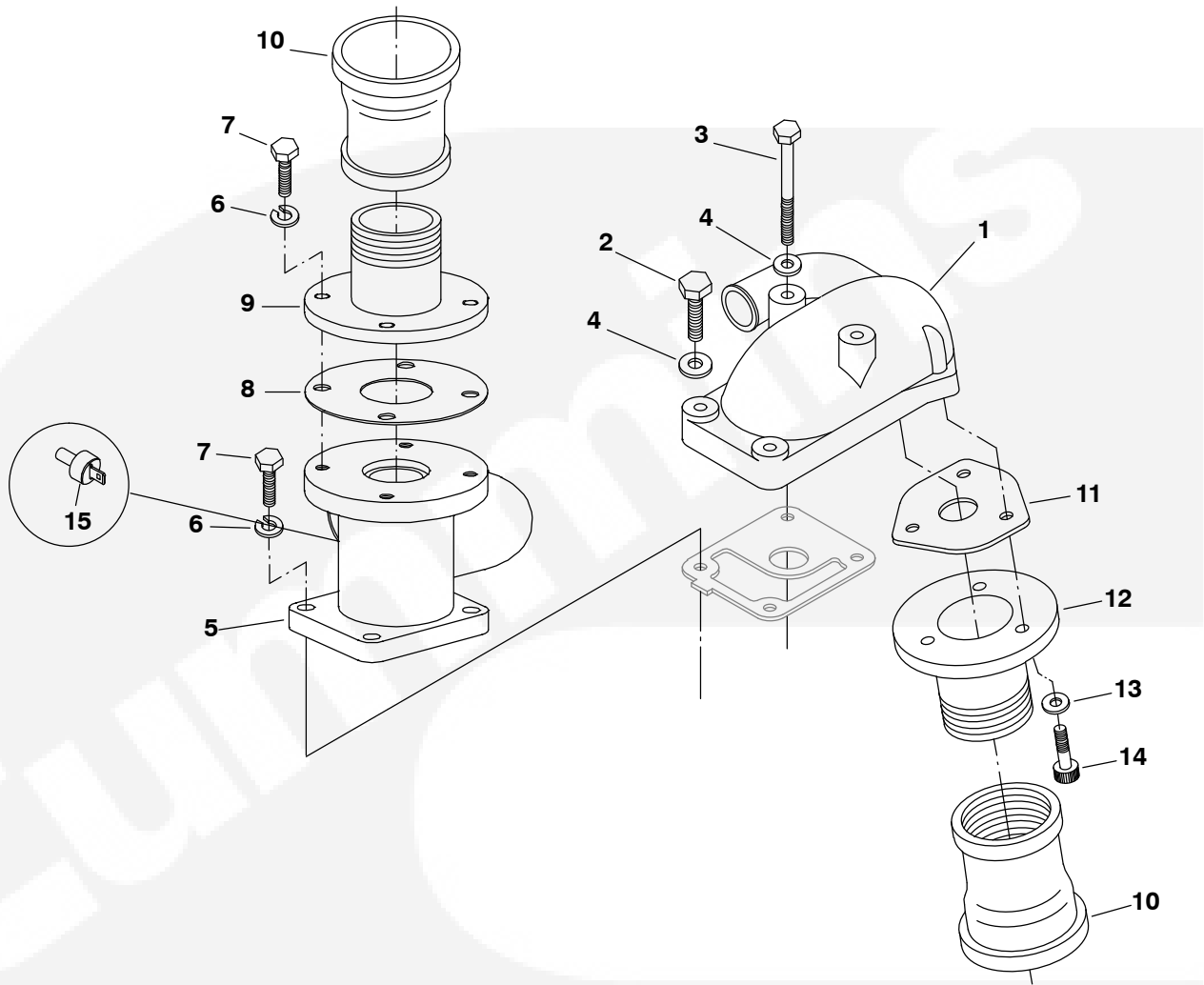
* - Part Included in Exhaust Adapter Kit Found on Dry Exhaust Page.

Wet Exhaust



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Kit, Exhaust (Wet)				
	541-1472-01	1	MDKBP (Rear Out)	8	740-1004	3	Washer, Flat (M6)
	541-1472-02	1	MDKBP (Front Out)	9	802-2068	3	Screw, Socket Cap (M6 x 1 x 20mm)
	541-1472-03	1	MDKBR, MDKBV (Rear Out)	10	309-0597-01	1	Switch, High Exhaust Temperature (S5)
	541-1472-04	1	MDKBR, MDKBV (Front Out)	11	501-1005		Hose, Exhaust
1	800-2067	2	Screw, Hex Head Cap (M8 x 1.25 x 70mm)	12	800-6395-01	4	Screw, Hex Head Sems Stainless (M6 x 1 x 16mm)
2	526-2100	4	Washer, Flat (M8)	13	404-0057	1	Bulkhead, Exhaust Connector
3	800-2515	2	Screw, Hex Head Cap (M8 x 1.25 x 30mm)	14	503-1142	4	Clamp, Hose Exhaust
4	154-2891	1	Riser, Exhaust	15	517-0138-09	1	Plug, Hole (Rear Out Housed)
5	870-0221-01	1	Nut, Hex (8-32)	16	503-2823	4	Cap, Hose Clamp (Not Shown)
6	155-3061	1	Gasket, Mixer	17	517-0131-02	4	Plug (Rear Out Housing)
7	154-3163	1	Mixer				

Dry Exhaust (Up or Down)



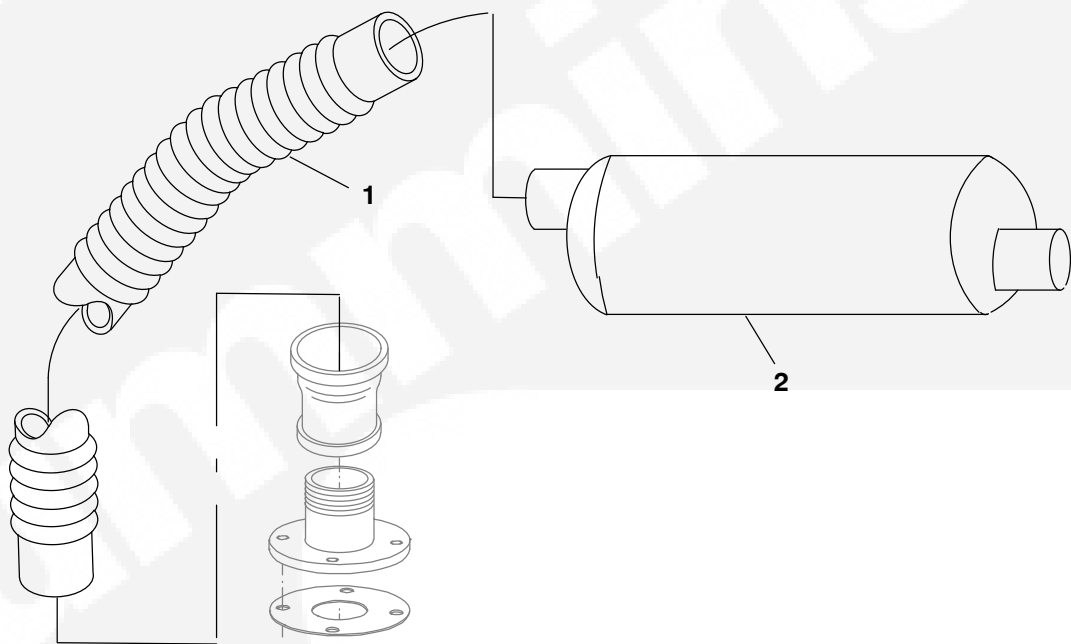
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	155-4690	1	Kit, Exhaust Adapter (Includes Parts Marked *)
	155-4691	1	Kit, Exhaust Flange (Includes Parts Marked +)
1	154-2891	1	Riser, Exhaust
2	800-2515	2	Screw, Hex Head Cap (M8 x 1.25 x 30mm)
3	800-2067	2	Screw, Hex Head Cap (M8 x 1.25 x 70mm)
4	526-2100	4	Washer, Flat (M8)
5	154-2963-02	1	*Adapter, Exhaust
6	850-2008	8	*Washer, Lock (M8)
7	718-1037	8	*Screw, Hex Head Cap (M8 x 1.25 x 25mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	155-2981	1	*Gasket, Exhaust Adapter
9	155-3069-02	1	*Flange, Exhaust
10	505-0339-02	1	*Coupling, Reducer (2 x 1-1/2")
11	155-3061	1	+ Gasket, Exhaust (Mixer)
12	155-3068-02	1	+ Flange, Exhaust
13	740-1004	3	+ Washer, Flat (M6)
14	802-2068	3	+ Screw, Socket Cap (M6 x 1 x 20mm)
15	309-0597-01	1	Switch, Hi Exhaust Temperature

* - Parts Included in Exhaust Adapter Kit. (Also Includes Gasket on Exhaust Manifold Page.)

+ - Parts Included in Exhaust Flange Kit.

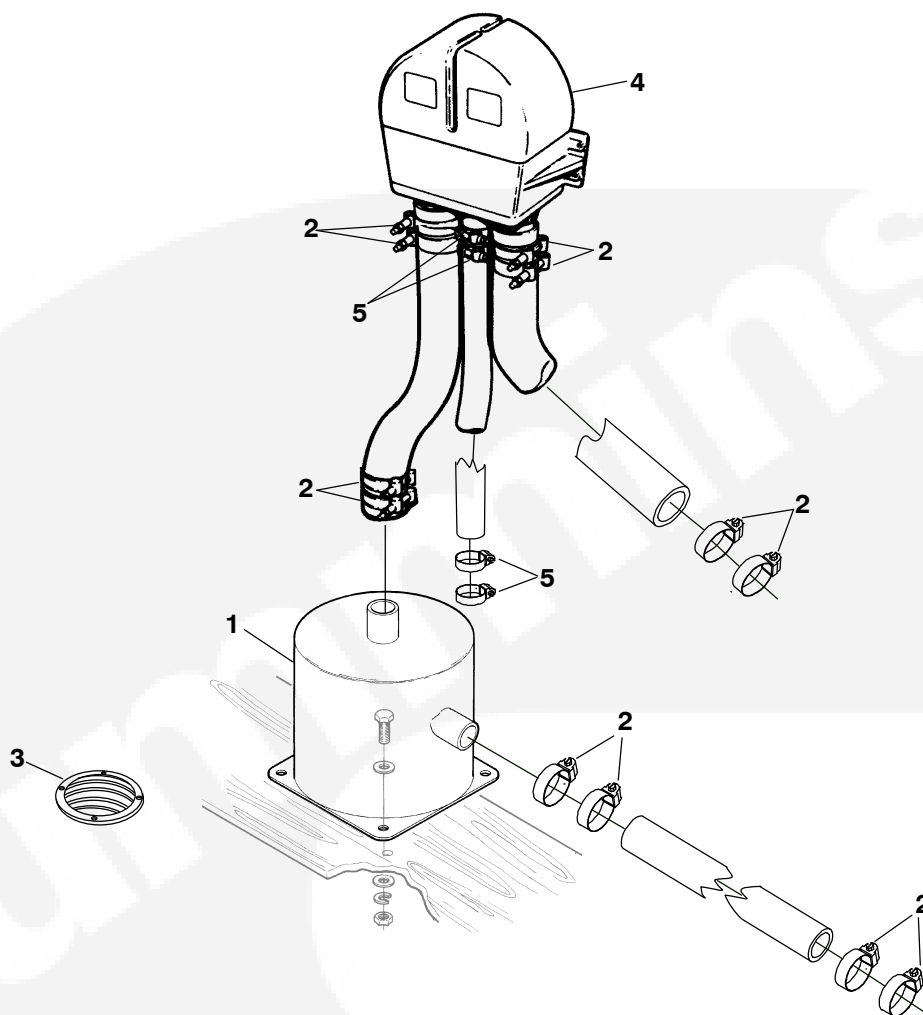
Muffler



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-2355-04	1	Tube, Flexible Exhaust (2")
2	155-2063-09	1	Muffler, Dry Exhaust (Up) (2")
	155-2064-09	1	Industrial Critical



Water Separator, Muffler



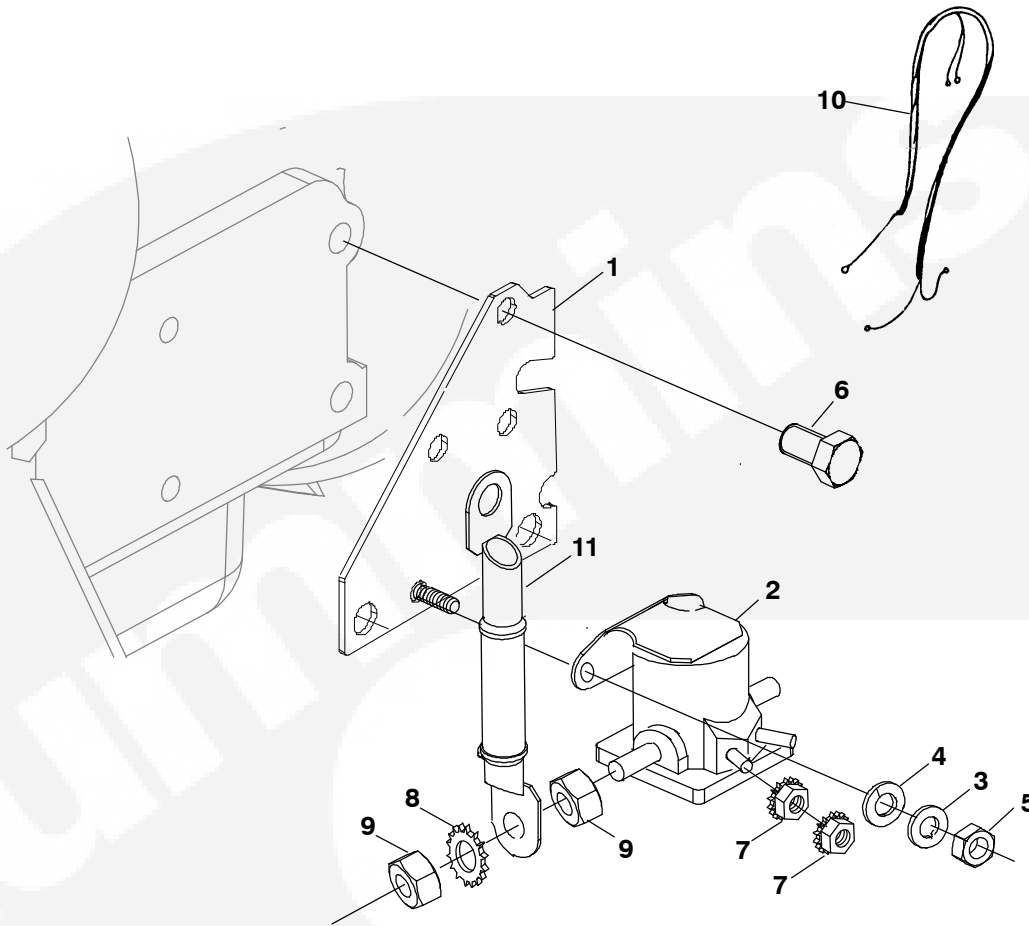
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Kit, Muffler, Separator (Includes Parts Marked *)	2			Clamp, Hose (2")
	155-3217	1	MDKBP		503-1133	8	+ Muffler Kit (2")
	155-3223	1	MDKBR, MDKBV		503-1133	4	# Separator Kit (2")
			Kit, Muffler (Includes Parts Marked +)		503-1142	10	* Muffler, Separator Kit (2")
	155-2030	1	MDKBP		503-1133	8	+ Muffler Kit (2-1/2")
	155-3222	1	MDKBR, MDKBV		503-1133	4	# Separator Kit (2")
			Kit, Water Separator (Includes Parts Marked #)		503-1142	10	* Muffler/Separator Kit (2")
	155-3216	1	MDKBP	3	155-1002	1	*+ Strainer, Water Pickup
	155-3224	1	MDKBR, MDKBV	4			*#Separator
1			*+ Muffler, Marine		155-3216	1	(2")MDKBP
	155-2029	1	MDKBP		155-3221	1	(2-1/2")MDKBR, MDKBV
	155-3220	1	MDKBR, MDKBV	5	503-1139	4	*#Clamp, Hose (1-1/2")

* - Parts Included in Muffler/Separator Kit.

+ - Parts Included in Muffler Kit.

- Parts Included in Water Separator Kit.

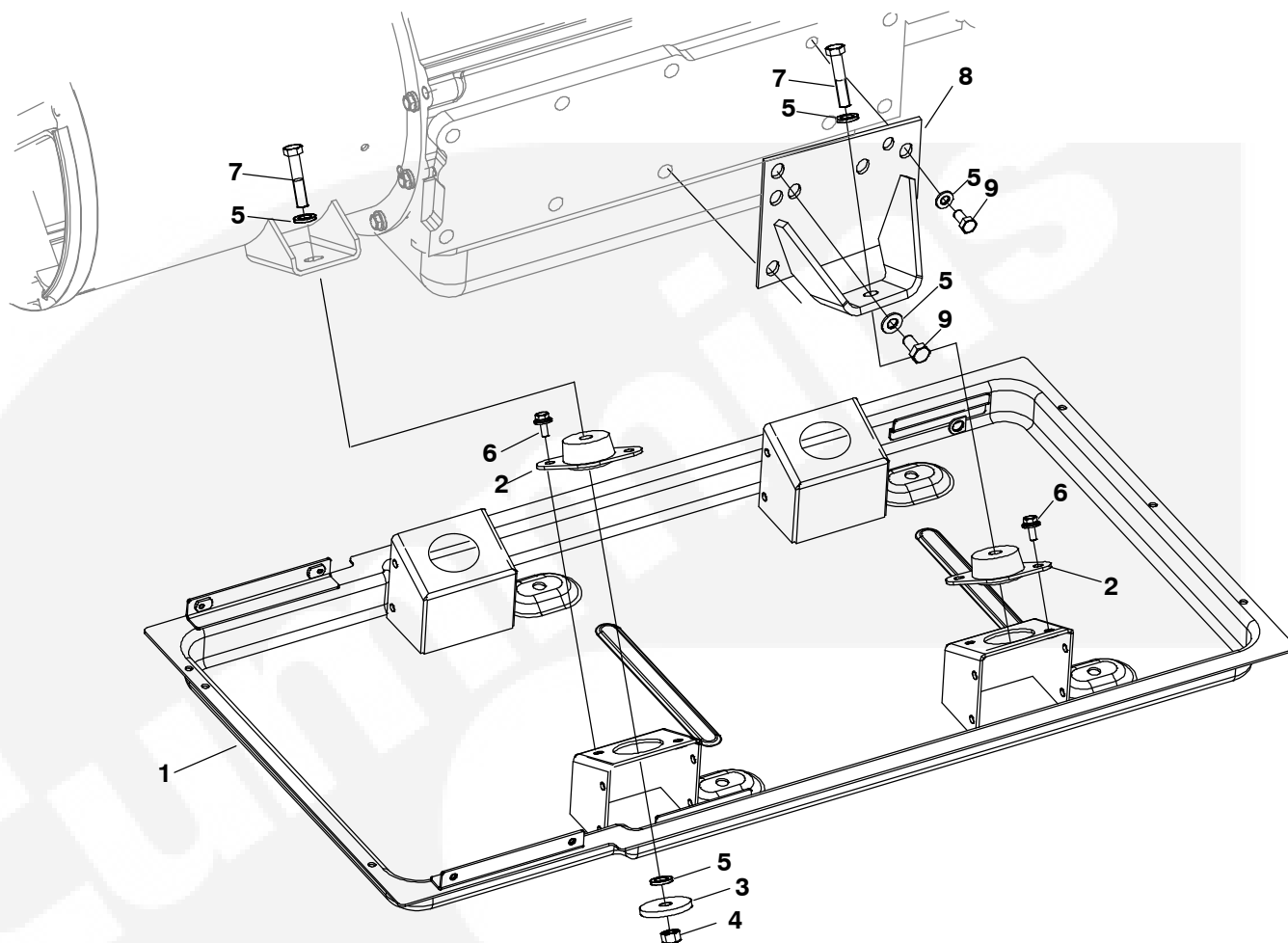
Isolated Ground



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Kit Isolated Ground (Includes Screws, Sending Units and Harness)	6	800-3031	3	Screw, Hex Head Cap (M12 x 1.25 x 20)
	541-0823	1	12V	7	870-0131	2	Nut, ET Hex (#10-32) (12V)
	541-0824	1	24V	8	853-0016	2	Washer, ET Lock (5/16")
1	333-0732-02	1	Bracket, Solenoid	9	862-0026-30	2	Nut, Hex (5/16-24)
2			*Relay, Solenoid	10	338-4200-01	1	Harness, Isolated Ground
	307-1617	1	12V	11	338-4200-02	1	Harness, Ground
	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)				

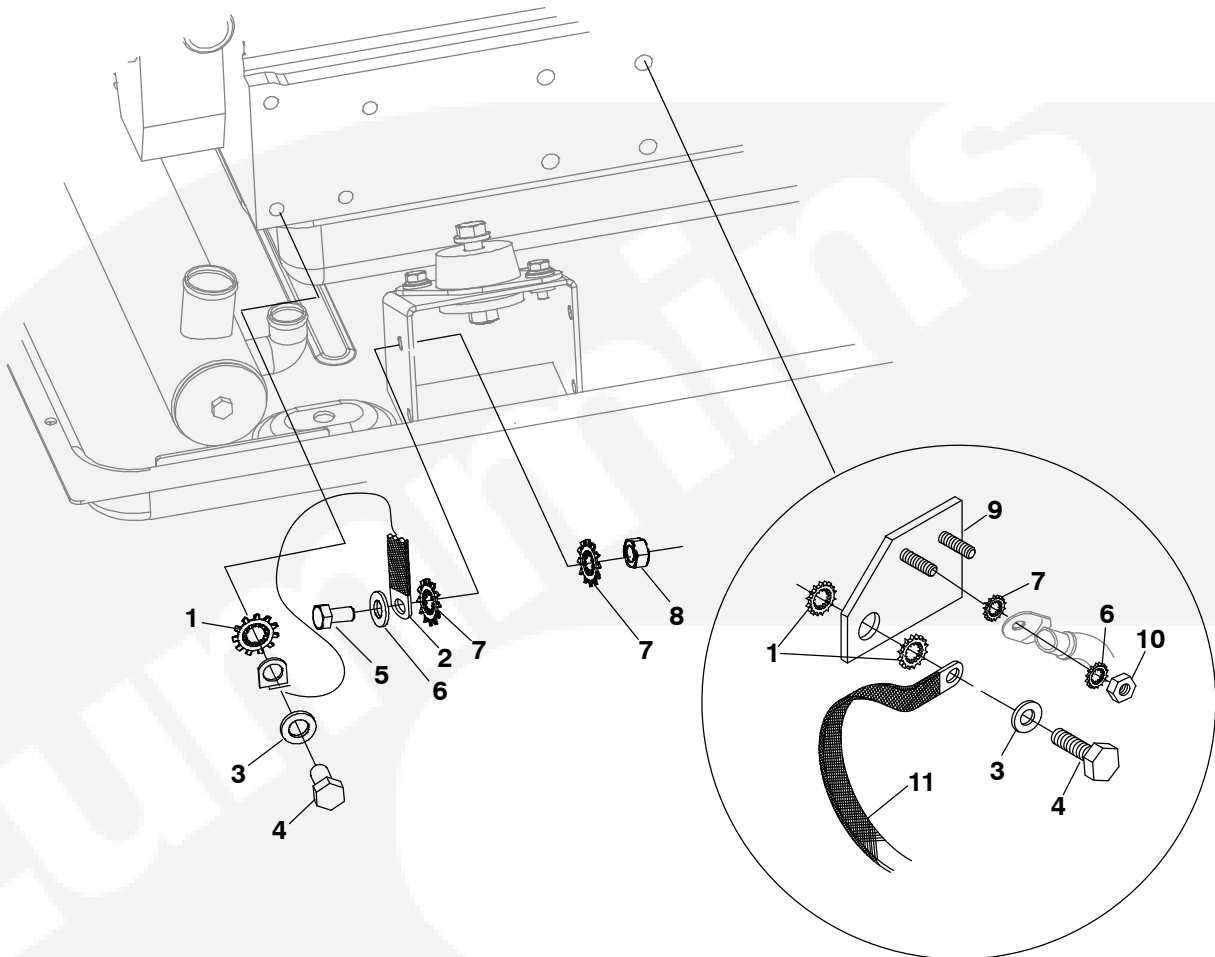
* - Relay Solenoid ties to B- and K9-1 Isolated Ground
Harness (338-4200-01)

Mounting Base



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4581-02	1	Base, Generator Mounting	6	821-6003-02	8	Screw, Hex Head Cap (M8 x .25 x 20mm)
2	403-3573	4	Isolator, Mounting W/O PTO	7	800-2118	4	Screw, Hex Head Cap (M12 x 1.75 x 60mm)
	403-3573	2	With PTO	8	403-6788-02	2	Mount, Engine W/O PTO
	403-3955	2	With PTO	9			Screw, Hex Head Cap (M12 x 1.25 x 20mm)
3	526-0172	4	Washer, Flat (M12)		800-3031	7	without PTO
4	750-1010	4	Nut, Hex Machine (M12 x 1.75mm)		800-3031	1	with PTO
5			Washer, Flat (M12)				
	526-2140	19	Without PTO				
	526-2140	13	With PTO				

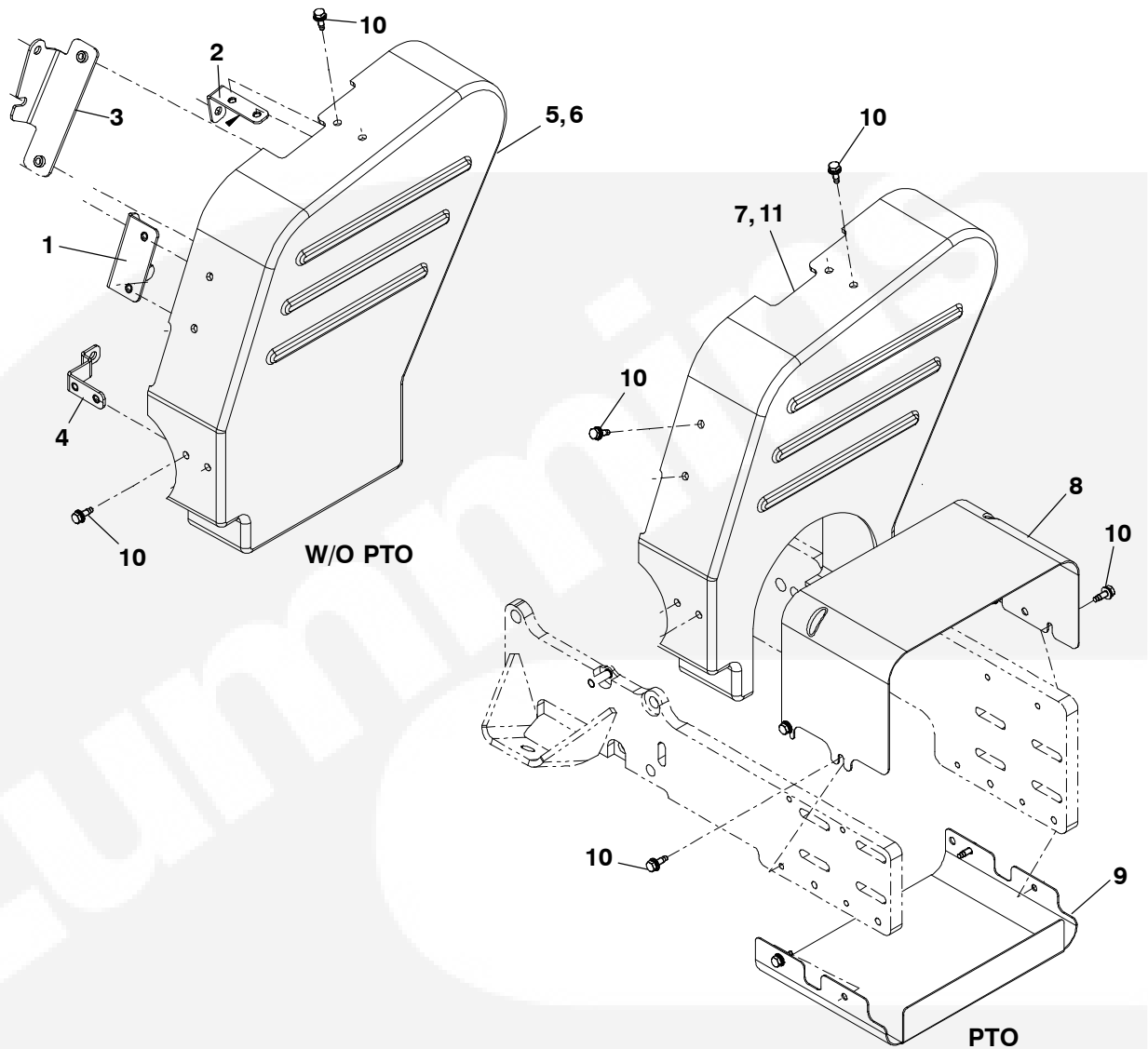
Grounding System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	856-0013	3	Washer, EIT Lock (1/2")
2	337-2785	1	Strap, Bond
3	526-2140	2	Washer, Flat (M12)
4	800-3032	1	Screw, Hex Head Cap (M12 x 1.25 x 30mm)
5	800-2057	1	Screw, Hex Head Cap (M8 x 1.25 x 20mm)
6	526-2100	2	Washer, Flat (M8)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	856-0008	2	Washer, EIT Locking (5/16")
8	750-1006	1	Nut, Hex (M8 x 1.25mm)
9	337-2784-02	1	Bar, Bus
10	871-0025	1	Nut, Hex Brass (5/16-18")
11	337-0090-02	1	Strap, Electrical

Belt Guard and PTO Belt Guard

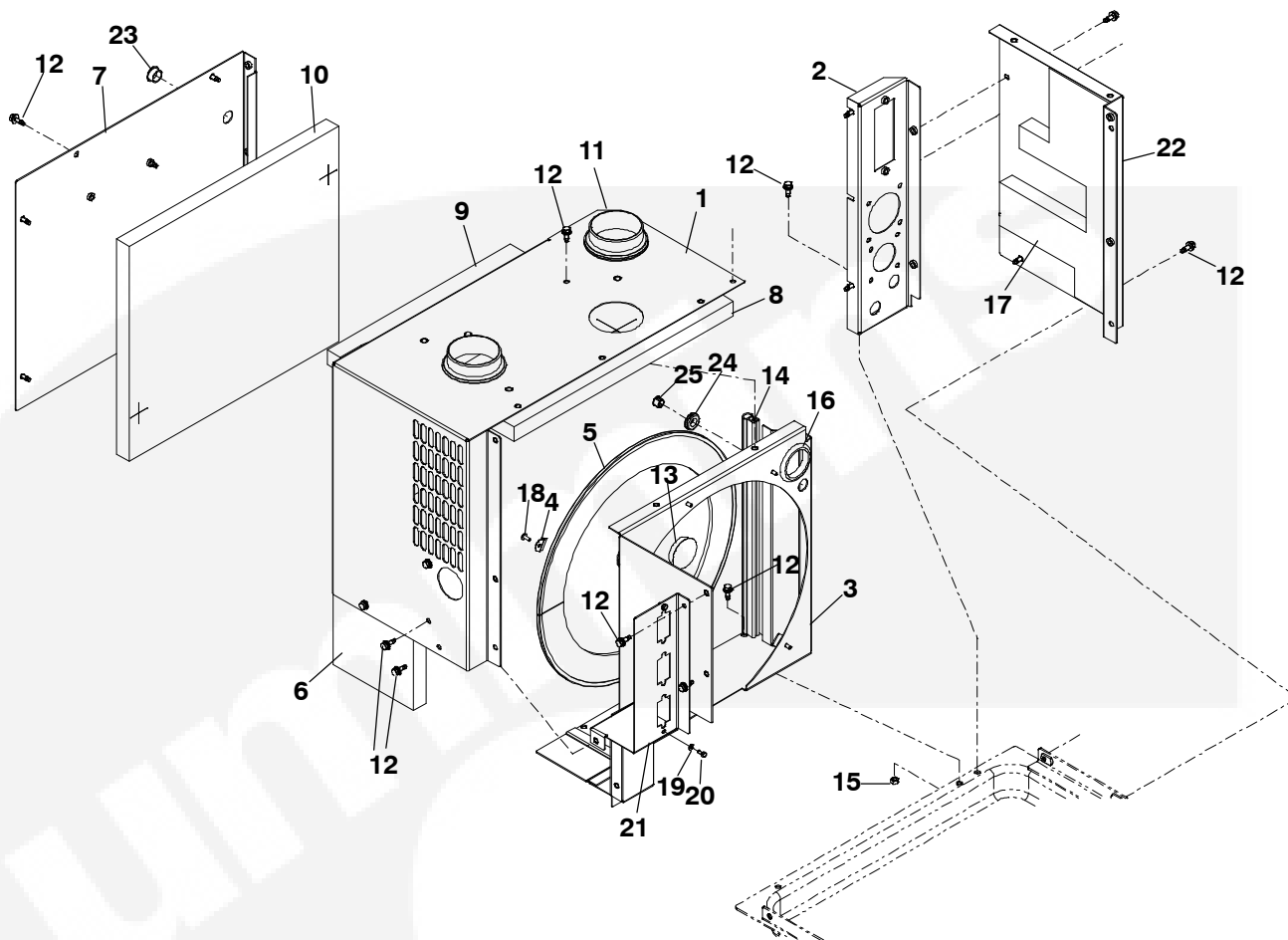


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A029N447	1	Bracket, Fan Guard
2	A029U252	1	Bracket, Guard
3	A029U256	1	Bracket, Fan Guard
4	A029U260	1	Bracket, Fan Guard
5	A030P511	1	Guard, Belt (Neg Gnd W/O PTO)
6	A030P526	1	Guard, Belt (ISO Gnd W/O PTO)
7	A030P519	1	Guard, Belt (Neg Gnd PTO)
8	130-5469-03	1	Coupling, Guard (PTO)
9	130-5470-03	1	Coupling, Guard (PTO)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10			Screw, Hex Head (M6 x 1.0 x 16mm)
	800-6395-01	8	W/O PTO
	800-6395-01	16	W PTO
11	A030P528	1	Guard, Belt Iso Gnd W PTO

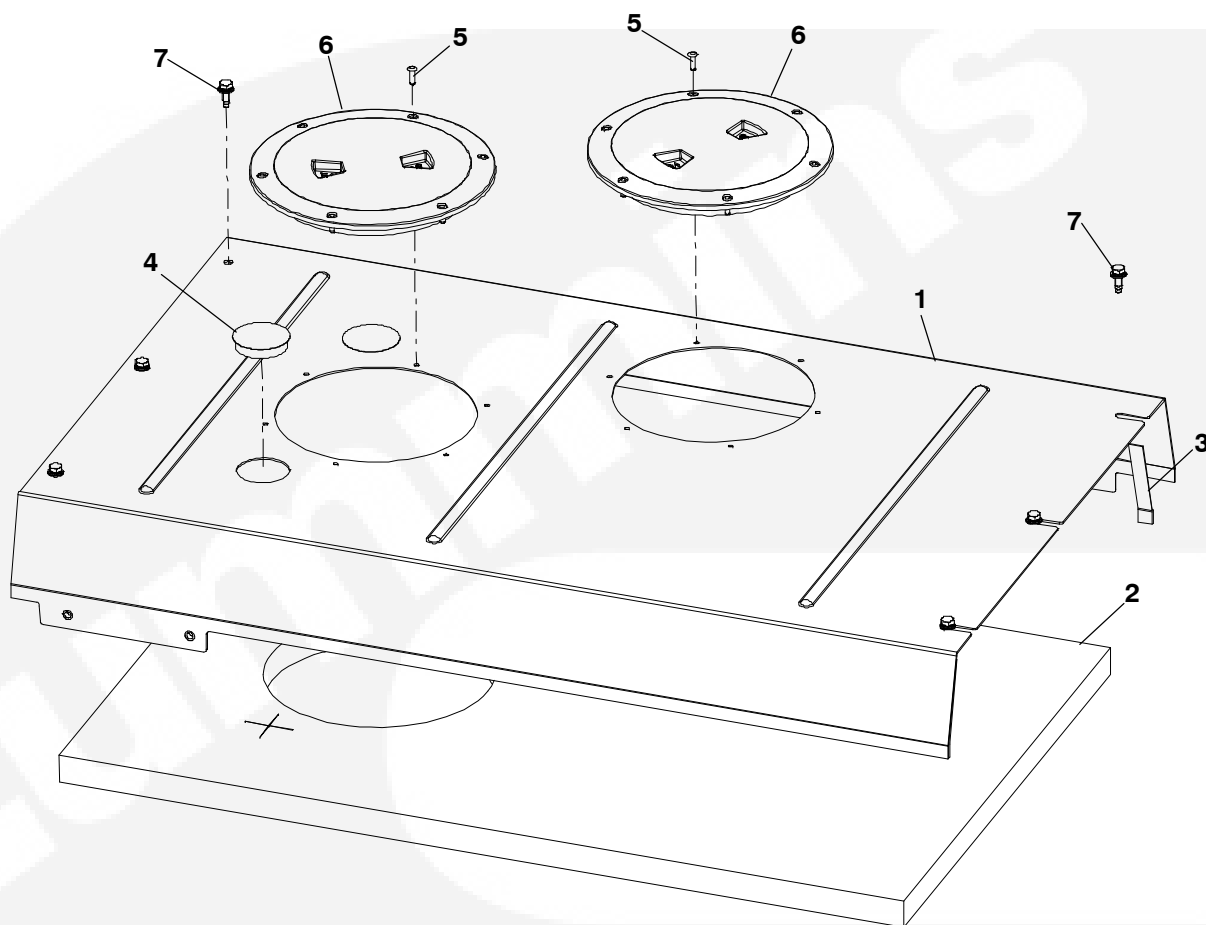
All Parts are for Unhoused Units Only
 * - Parts Included in Negative Gnd Belt Guard Kit
 + - Parts Included in ISO Gnd Belt Guard Kit
 ~ - Parts Included in PTO Belt Guard Kit

Generator Housing



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Panel, Housing	13	517-0138-07	1	Plug, Hole
	404-0018-03	1	Single Phase	14	895-0402	1	Seal, Weather (1.23')
	404-0023-03	1	Three Phase	15	860-2057	2	Nut, Hex (M6 x 1.0mm)
2	404-0019-03	1	Panel, Housing	16	508-0051	1	Grommet
3	404-0020-03	1	Panel, Air Baffle	17	405-9631	1	Insulation, Panel
4	134-5299-02	5	Bracket, Fan	18	818-0231-02	5	Rivet, Pop
5	509-0368	1	Seal, Brush	19	526-2050	2	Washer, Flat (M4)
6			Insulation, Panel	20	800-3042	2	Screw, Hex Head Cap (M4 x 0.7 x 10mm)
	405-6684	1	Single Phase	21	404-0022-03	1	Panel, Enclosure
	405-7430	1	Three Phase, MDKBV Single	22	404-0024-03	1	Panel, Enclosure
7	404-0021-03	1	Cover, Enclosure (Rear)	23	517-0136	1	Plug, Hole
8	405-9129	1	Insulation, Panel	24	508-0021	1	Grommet
9	405-9079	1	Insulation, Enclosure	25	517-0133	1	Plug, Hole
10	404-0045	1	Insulation, Cover				
11	508-1152	2	Grommet, Rubber				
12	800-6395-01	25	Screw, Hex Head Sems (M6 x 1.0 x 16mm)				

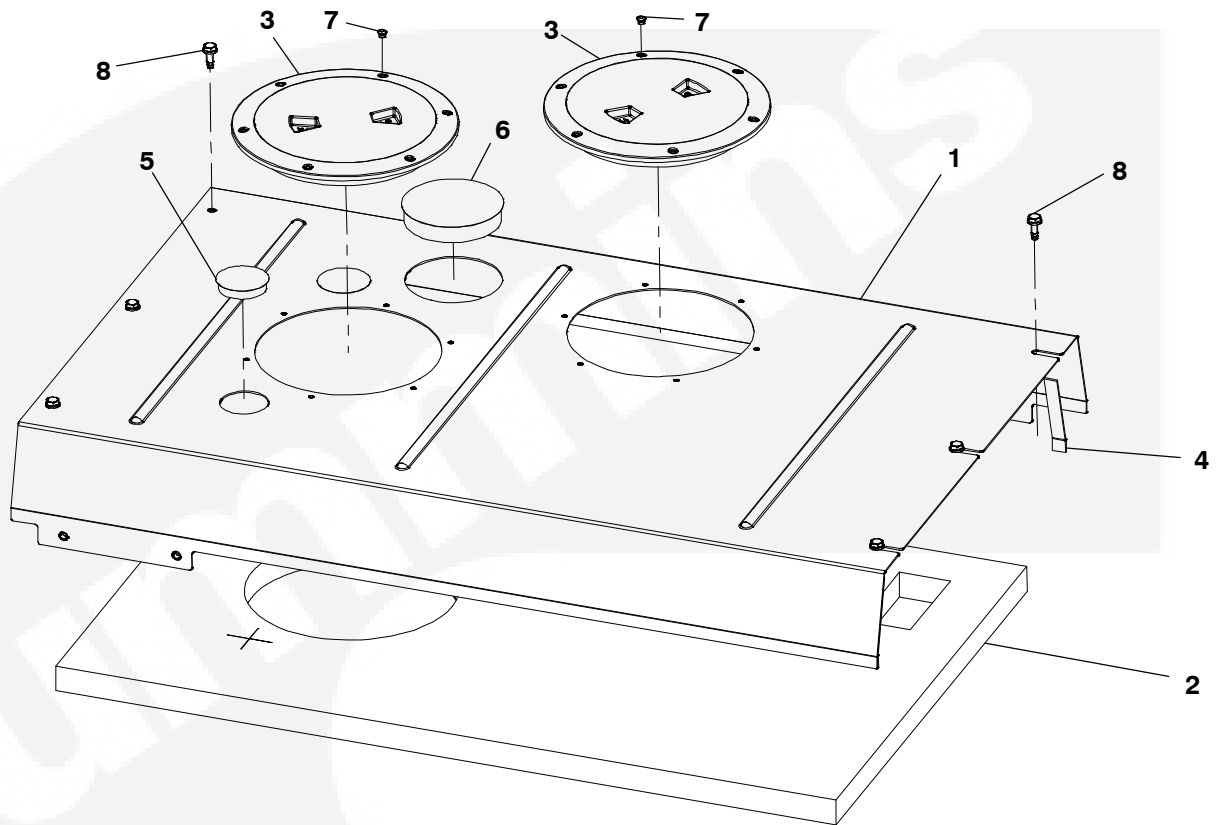
Engine Sound Shield
MDKBP, MDKBR (Spec D-E), MDKBV (Spec A-B)



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	404-0090-03	1	Panel, Roof
2	404-0572	1	Insulation, Roof
3	405-5052	4	Gasket, Baffle
4	517-0392-19	2	Plug, Hole

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
5	818-0239-03	12	Rivet, Pop
	A030F177		Rivet, Pop
6	405-6340	2	Cover, Access
7	800-6395-01	6	Screw, Hex Head Sems (M6 x 1 x 16mm)

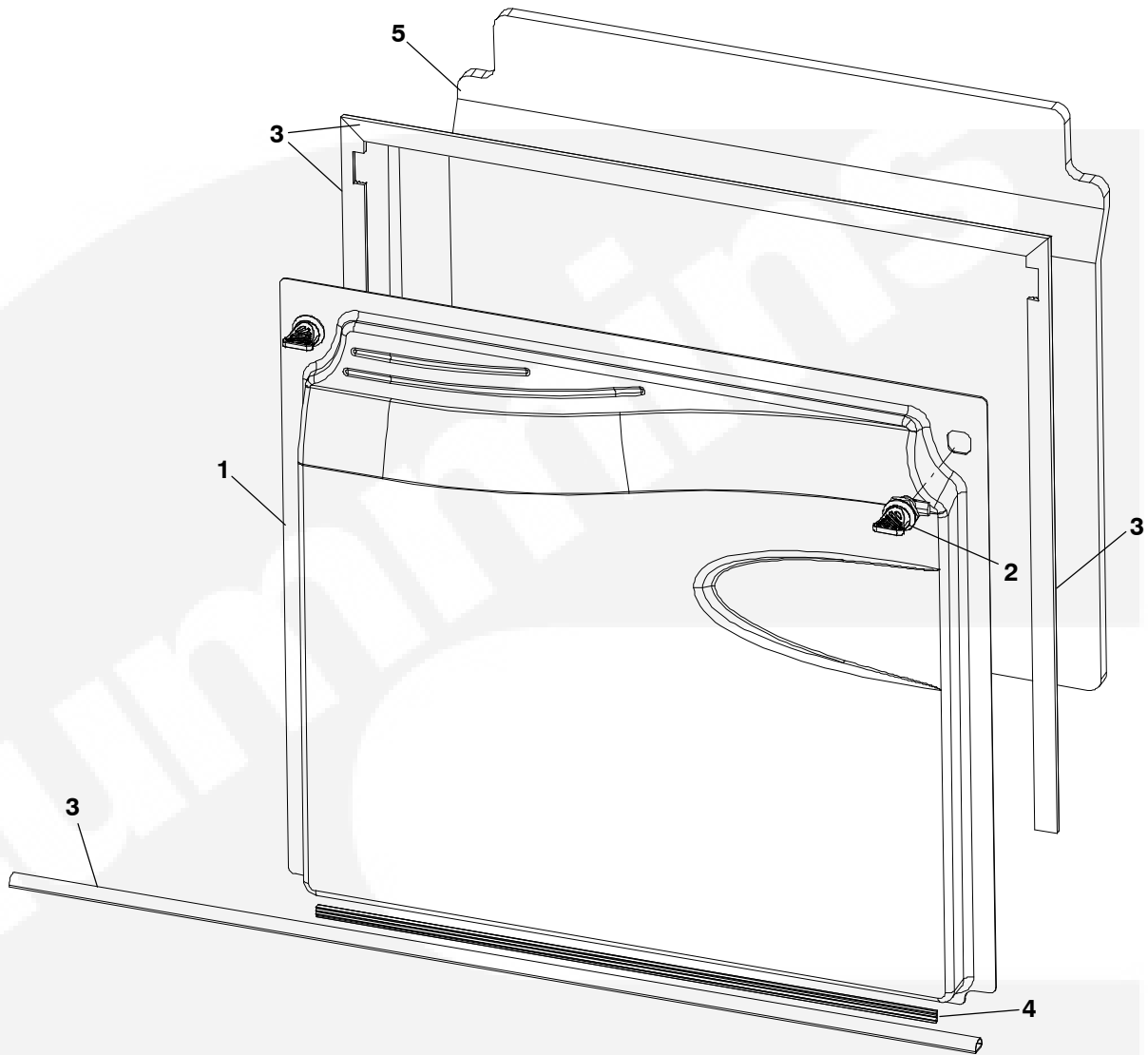
Engine Sound Shield
MDKBP, MDKBR (Begin Spec F), MDKBV (Begin Spec C)



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	A035K157	1	Panel, Roof
2	A035K169	1	Insulation, Roof
3	405-6340	2	Cover, Access
4	405-5052	4	Gasket, Baffle

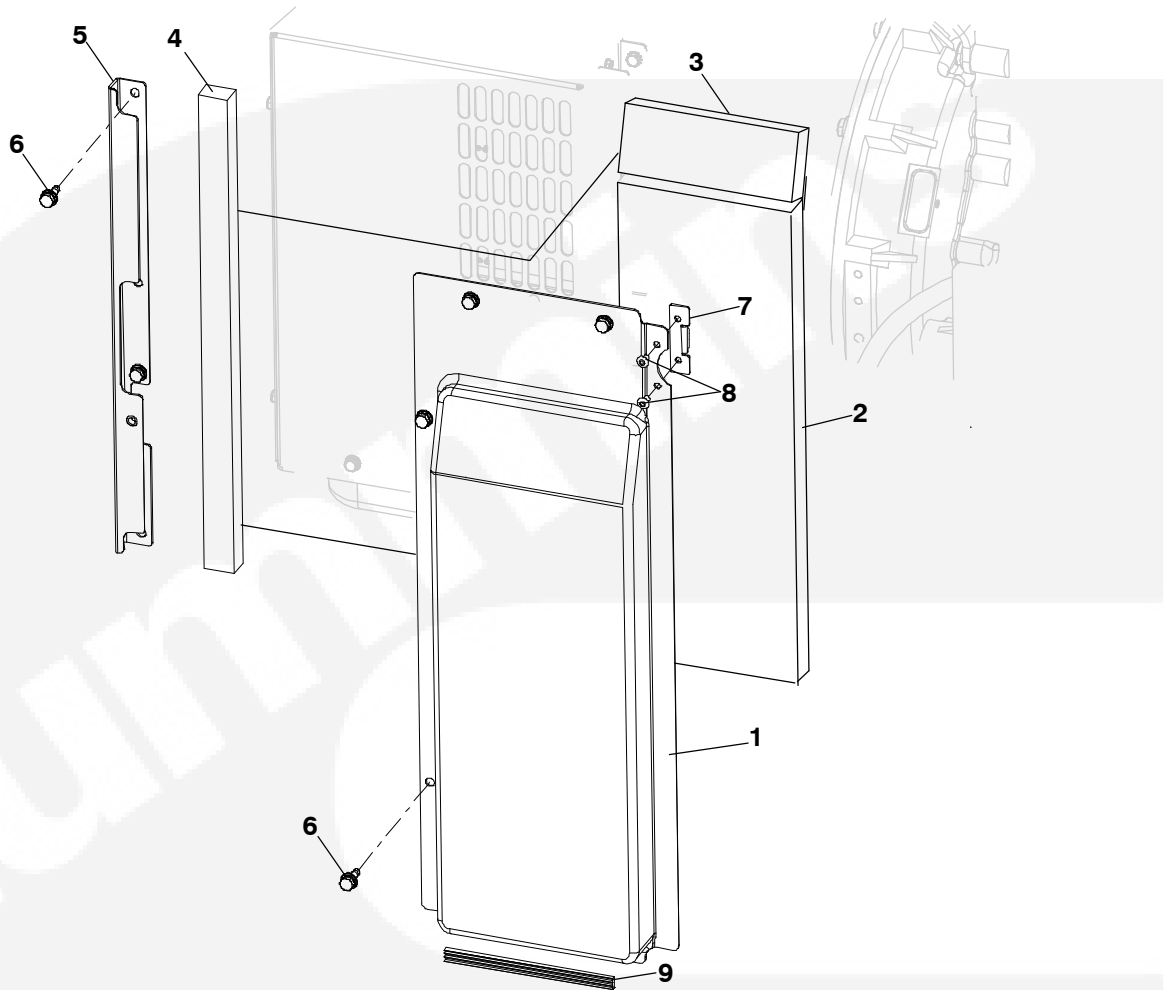
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
5	517-0392-19	2	Plug, Hole
6	A035K171	1	Plug, Hole
7	A030F177	12	Rivet, Flat Head
8	A030B088	6	Screw, Hex Head

Engine Sound Shield



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	405-9751-03	1	Door, Access	4	895-0395	AR	Seal, Weather
2	406-0958	2	Latch, Door (Knob)	5	405-9568	1	Insulation, Door
	A030B824	2	(Slotted)				
3	895-0411	AR	Seal, Weather (12.5)				

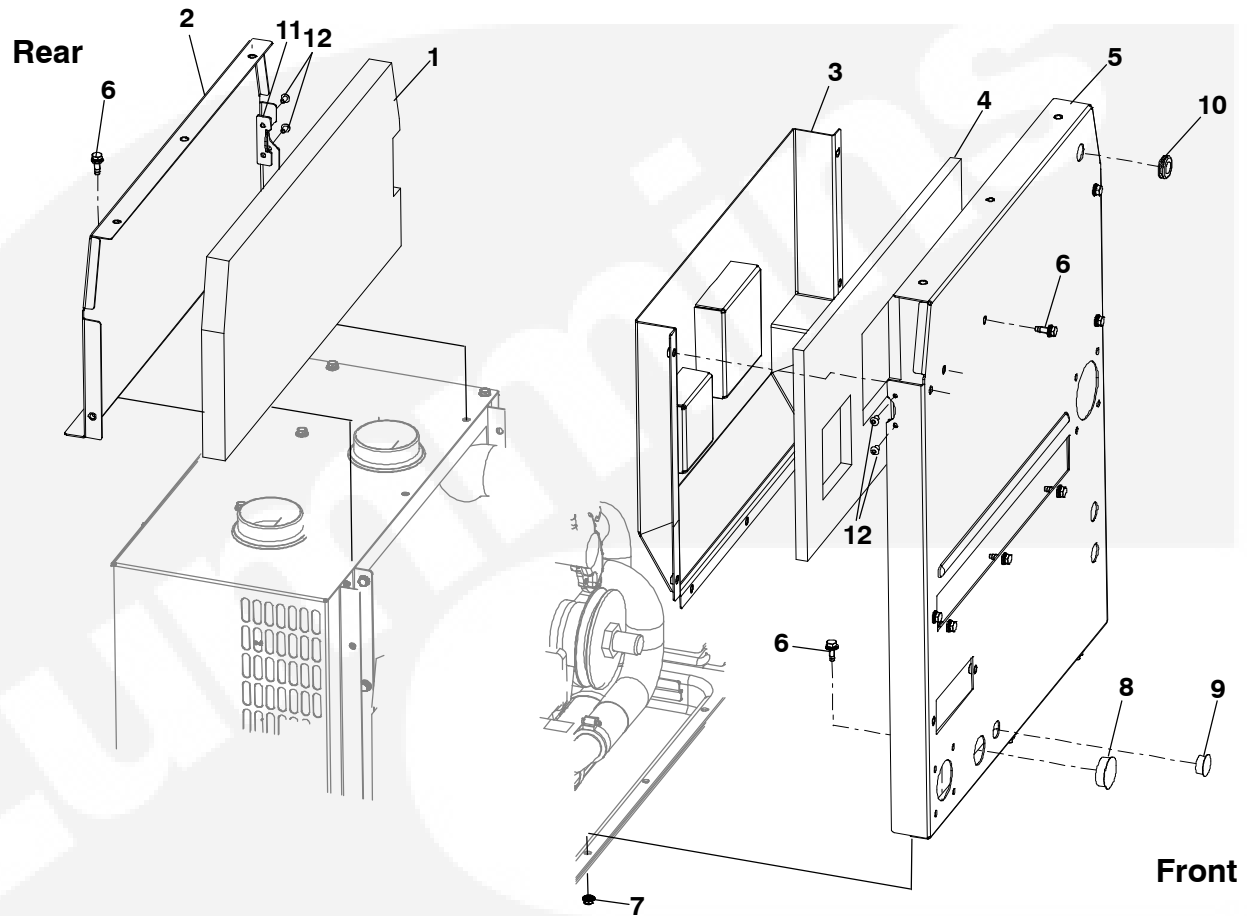
Engine Sound Shield



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	404-0097-03	1	Panel, Access
2	405-6995-01	1	Insulation, Sound
3	405-6993-01	1	Insulation, Sound
4	405-7347	1	Insulation, Sound
5	404-0098-03	1	Spacer, Panel
6	A030B088	6	Screw, Hex Head

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
7	406-1032	2	Catch, Door
8	A030F179	4	Rivet, Flat Head
9	895-0395	AR	Seal, Weather
10	850-2056	1	Washer, Lock (Not Shown)
11	718-1017	1	Screw, Hex Head (Not Shown)

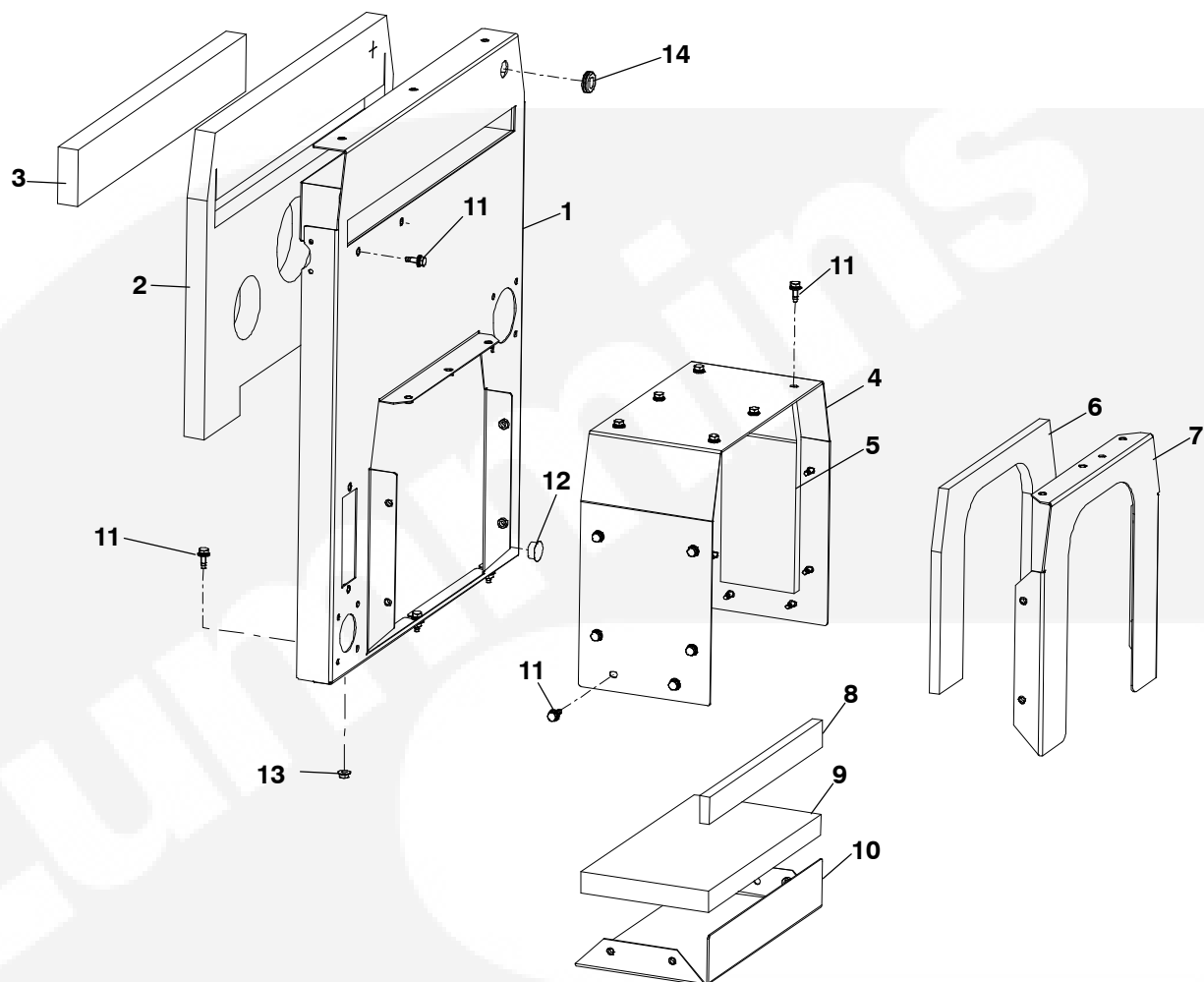
Engine Sound Shield (Front and Rear with out PTO)



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	405-7179	1	Insulation, Roof End
2	404-0096-03	1	Panel, Roof End
3	404-0573-03	1	Panel, Duct (W/O PTO)
4	404-0576	1	Insulation, Duct (W/O PTO)
5	404-0039-03	1	Panel, Enclosure (Front W/O PTO)
6	A030B088	16	Screw, Hex Head

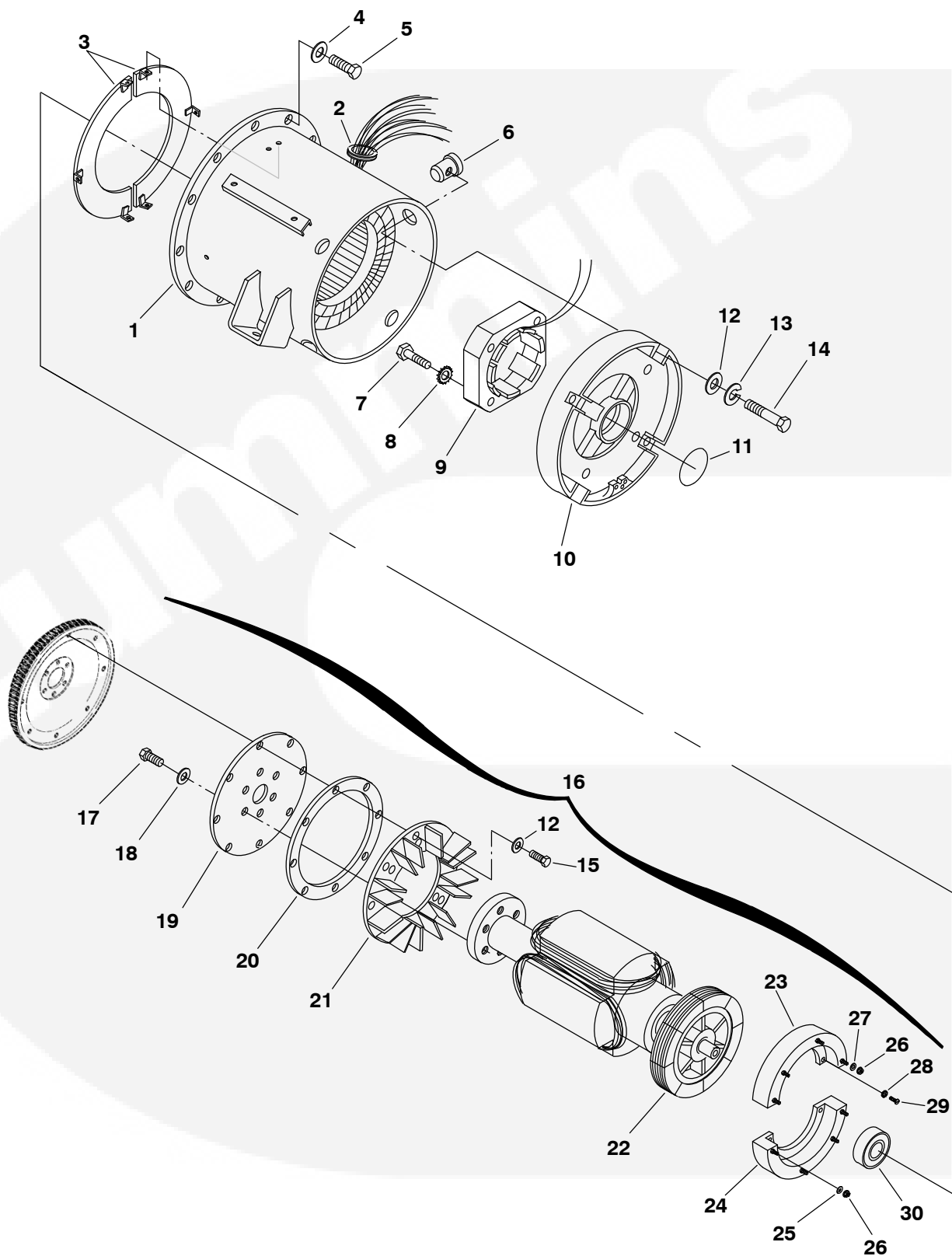
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
7	870-2065-02	2	Nut, Lock Flanged (M6)
8	517-0138-04	1	Plug, Hole (W/O PTO)
9	517-0136	1	Plug, Hole
10	508-0021	1	Grommet
11	406-1032	2	Catch, Door
12	A030F179	4	Rivet, Flat Head

Engine Sound Shield (Front w/PTO)



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	404-0040-03	1	Panel, Enclosure (Front PTO)	9	405-6819	1	Insulation, Sound (PTO)
2	404-0575	1	Insulation, Panel (PTO)	10	190-0893-03	1	Guard, PTO
3	404-0100	1	Insulation, Enclosure (PTO)	11	A030B088	24	Screw, Hex Head
4	190-0890-03	1	Guard, PTO	12	517-0136	1	Plug, Hole
5	404-0160	1	Insulation, Sound (PTO)	13	870-2065-02	3	Nut, Hex Flanged (M6)
6	404-0161	1	Insulation, Sound (PTO)	14	508-0021	1	Grommet
7	190-0891-03	1	Guard, PTO				
8	404-0159	1	Insulation, Sound (PTO)				

Generator

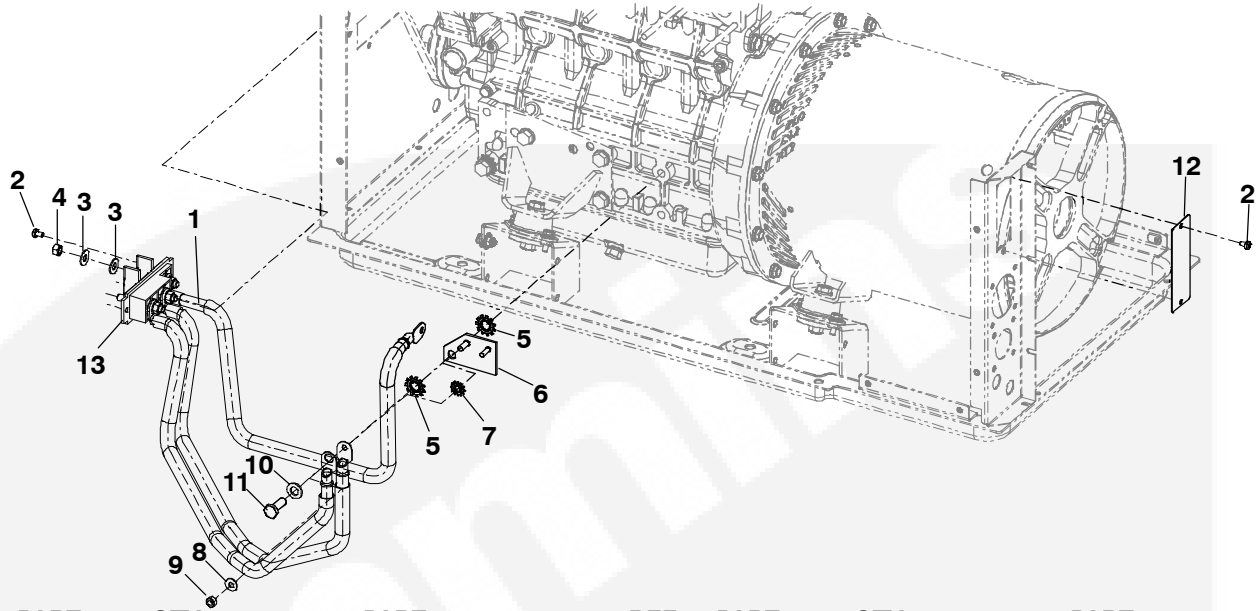


Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator, Generator (Includes Grommet)	16			Rotor Assy, Generator (Includes Parts Marked *)
			Single Phase		201-3517-02	1	MDKBP
	220-4618-02	1	MDKBP		201-3517-04	1	MDKBR, MDKBV
	220-4618-04	1	MDKBR, MDKBV	17	800-3010-44	6	*Bolt, Hex Head Cap (.50-13 UMC x 1.0")
			Three Phase				
	220-4619-02	1	MDKBP	18	526-0399-44	6	*Washer, Flat
	220-4619-04	1	MDKBR, MDKBV	19	232-3672-03	1	*Disc, Drive
2	508-1203	1	Grommet	20	232-3826-02	1	*Spacer, Fan
3	234-0935-02	2	Baffle, Air (3 Phase)	21	205-0229-02	1	*Fan, Generator
4	526-0174	12	Washer, Flat (3/8)	22	201-3515-02	1	*Rotor, Wound (Excitor)
5	800-0051	12	Screw, Hex Head Cap (3/8-16 x 1-1/4)	23	358-0069	1	*Rectifier (Positive)
6	232-3706-02	4	Retainer, Endbell	24	358-0070	1	*Rectifier (Negative)
7	815-0935	4	Screw, Hex Head Thread Forming (1/4-20 x 2")	25	526-0008	10	*Washer, Flat (#10)
8	853-0013	4	Washer, ET Lock (1/4")	26	870-0131	2	*Nut, ET Hex (.190-32)
9	220-4413-02	1	Stator, Wound	27	526-0399-11	2	*Washer, Flat (#10)
10	211-0435-01	1	Endbell	28	853-0008	4	*Washer, ET Lock (.190")
11	509-0094	1	Seal, O'Ring	29	813-0100	4	*Screw, Pan Head Machine (.190-32 x .50")
12	526-0399-42	4	Washer, Flat (3/8)	30	510-0112	1	*Bearing, Ball
13	850-0114-06	4	Washer, Lock (5/16")				
14	800-0310-27	4	Screw, Hex Head Cap (5/16"-18 x 2-1/2")				
15	800-0310-36	8	Screw, Hex Head Cap (3/8-16 x 1)				

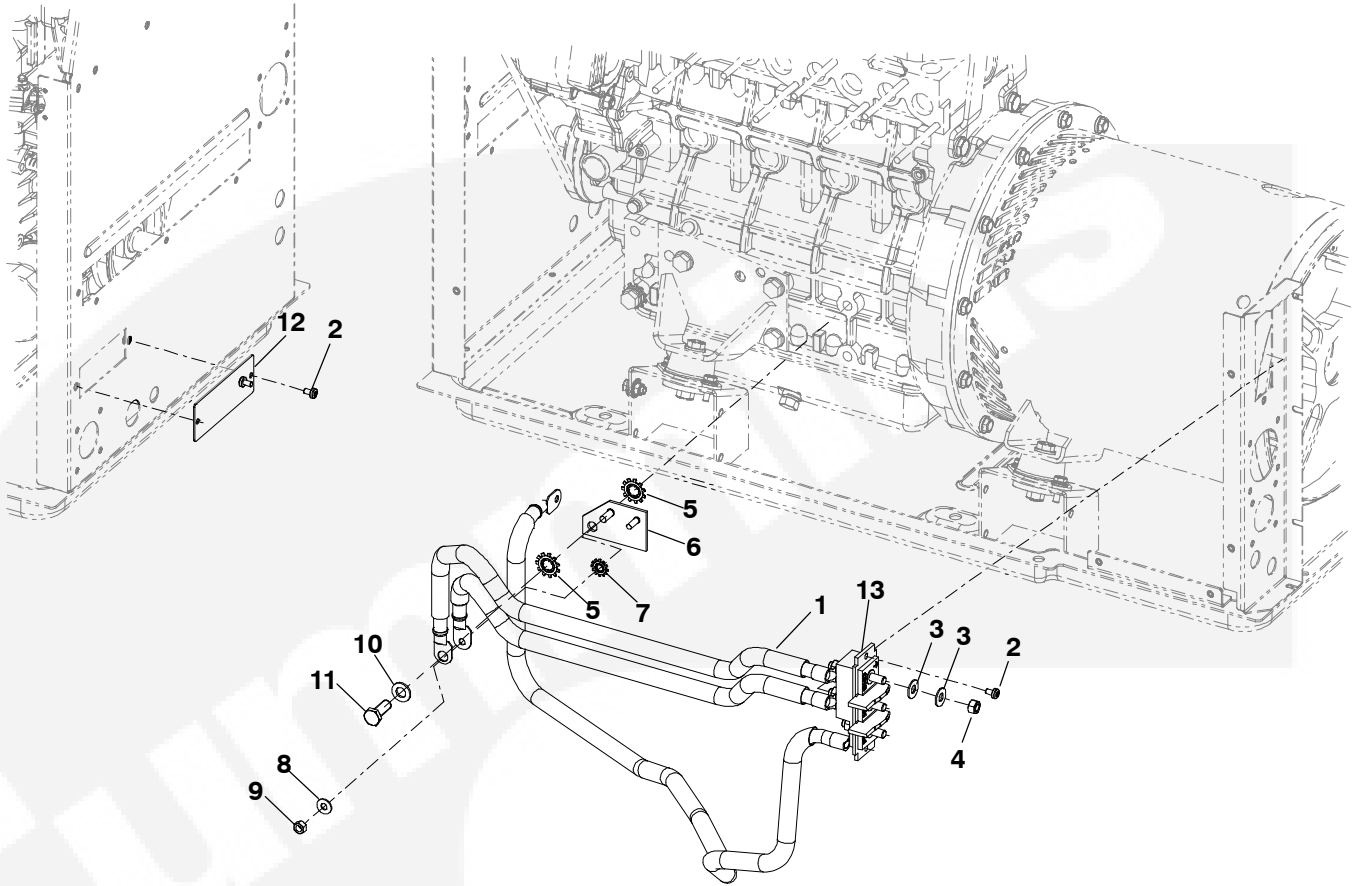
* - Parts Included in Generator Rotor Assy.

Battery Harness Front



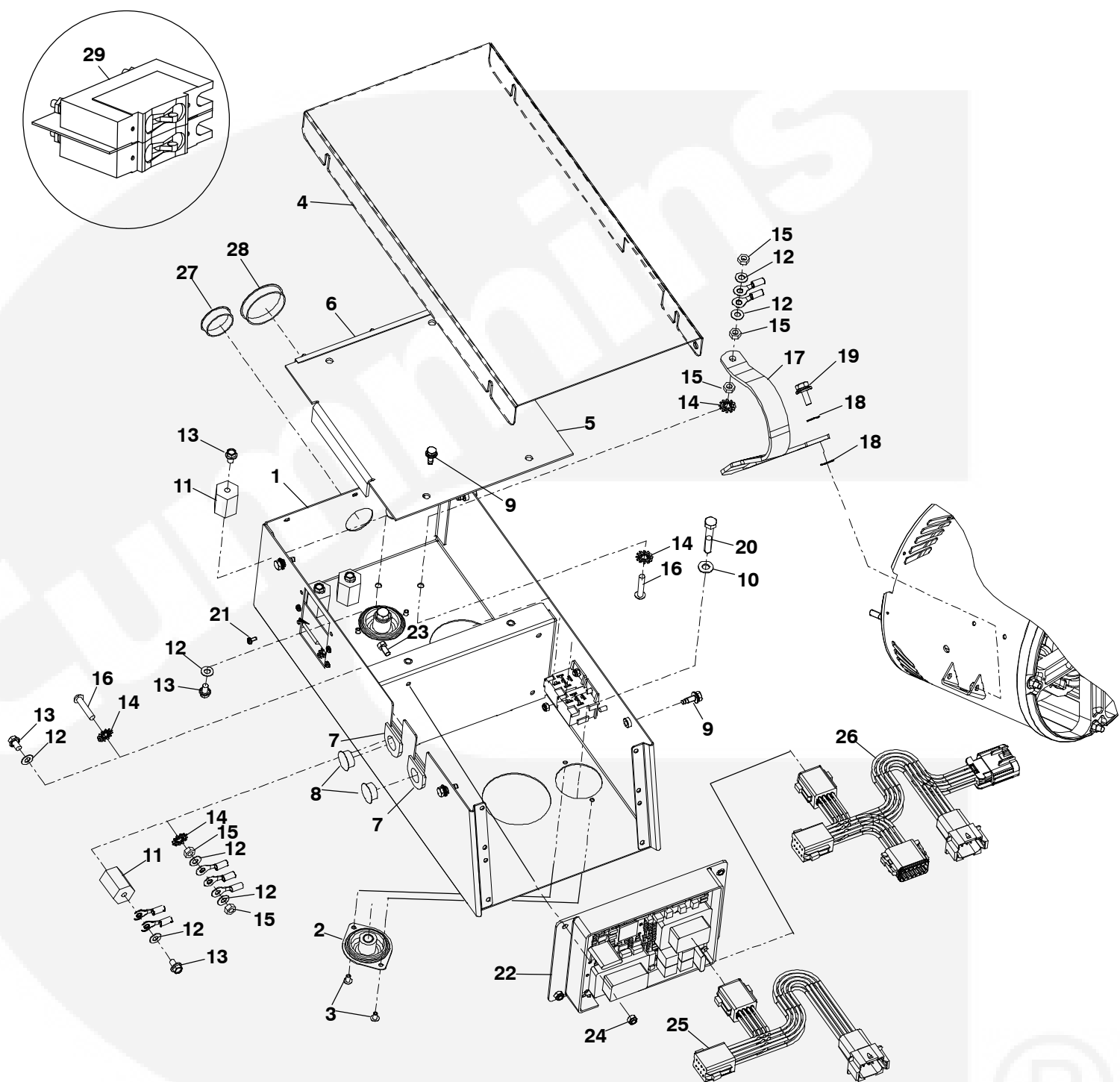
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	338-4623-02	1	Harness, Battery	9	871-0025	1	Nut, HB Full (5/16-18)
2	823-1002-03	4	Screw, Pan Head Torx (M6 x 1.0 x 10mm)	10	526-2140	1	Washer, Flat (M12)
3	526-0029	6	Washer, Flat (1/2")	11	800-3032	1	Screw, Hex HEad Cap (M12 x 1.25 x 30mm)
4	862-0003	3	Nut, Hex (3/8-16UNC)	12	405-9764-02	1	Cover, Access
5	856-0013	2	Washer, ETIT Locking (1/2")	13	332-3865-03	1	Block, Terminal
6	337-2784-02	1	Assy Bus, Bar				
7	856-0008	1	Washer, ETIT Locking (Neg GND 5/16")				
8	526-0054	1	Washer, Flat Neg GND(8.33ID x 19.05OD)				

Battery Harness Rear



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	338-4623-02	1	Harness, Battery	9	871-0025	1	Nut, HB Full (5/16-18)
2	823-1002-03	4	Screw, Pan Head Torx (M6 x 1.0 x 10mm)	10	526-2140	1	Washer, Flat (M12)
3	526-0029	6	Washer, Flat (1/2")	11	800-3032	1	Screw, Hex HEad Cap (M12 x 1.25 x 30mm)
4	862-0003	3	Nut, Hex (3/8-16UNC)	12	405-9764-02	1	Cover, Access
5	856-0013	2	Washer, ETIT Locking (1/2")	13	332-3865-03	1	Block, Terminal
6	337-2784-02	1	Assy Bus, Bar				
7	856-0008	1	Washer, ETIT Locking (Neg GND 5/16")				
8	526-0054	1	Washer, Flat (Neg GND(8.33ID x 19.05OD))				

Control Box

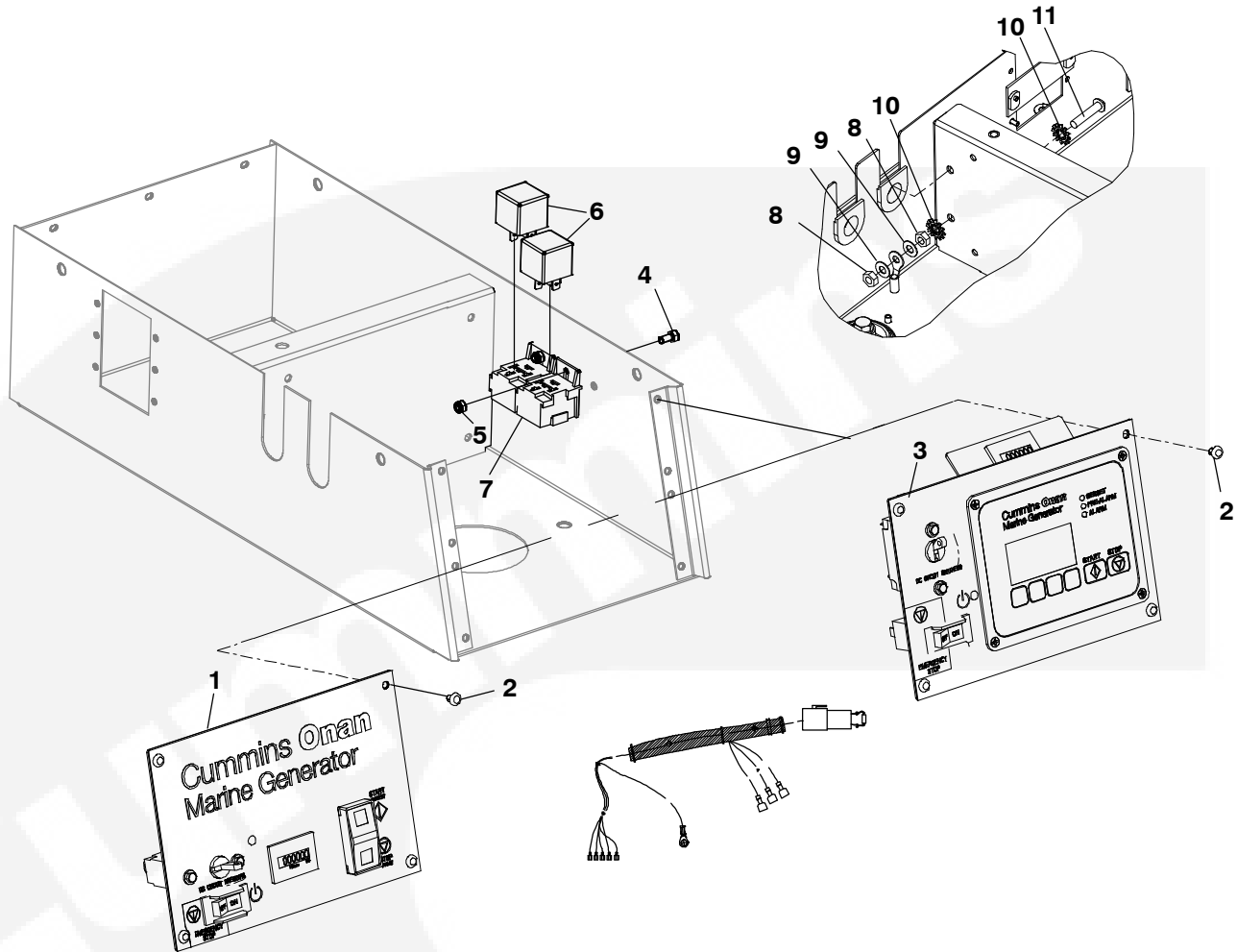


Control Box

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	319-6227-03	1	Control, Box	20	800-6062	3	Screw, Hex Head Cap (M8 x 1.25 x 45mm)
2	402-0681-01	3	Isolator, Vibration	21			Screw, XREC Phillips (#6-23 x .312")
3	818-0231-01	6	Rivet, Pop		815-0550-03	4	Neg GND 1 Phase 12 & 24V
4	319-6228-03	1	Cover, Box Control				ISO GND 1 Phase 12 & 24V
5	319-4404	1	Cover		815-0550-03	6	Neg GND 3 Phase 12 & 24V
6	332-3750	1	Guide, Card				ISO GND 3 Phase 12 & 24V
7	508-1105	2	Grommet, Remote	22			PCB
8	517-0136	2	Plug, Hole		327-1686-02	1	NIM/SmartCraft
9	800-6395-01	6	Screw, Hex Head Sems (M6 1.0 x 16mm)		327-1686-03	1	NIM/SmartCraft 2
10	526-2100	3	Washer, Flat (M8)	23	800-6002	4	Screw, Hex Head (M5 x 0.8 x 10mm)
11			Standoff, Insulator				(NIM/J1939/ Smartcraft1&2)
	332-2370	2	Neg GND 1 Phase 12 & 24V	24	870-2062	1	Nut, Nylon Locking SmartCraft 2(M5)
	332-2370	3	Neg GND 3 Phase 12 & 24V	25	338-4491	1	Harness, Accessory (J1939 / SmartCraft)
			ISO GND 1 Phase 12 & 24V	26	338-4982	1	Harness, Accessory (SmartCraft 2)
	332-2370	4	ISO GND 3 Phase 12 & 24V	27	517-0138-05	1	Plug, Hole
12			Washer, Flat (6.75ID x 14.30D x .8mm)	28	517-0138-08	1	Plug, Hole
	526-0052	6	Neg GND 1 Phase 12 & 24V	29			Breaker, Circuit MDKBP
	526-0052	7	Neg GND 3 Phase 12 & 24V		320-1689-04	1	30Amps
	526-0052	8	ISO GND 1 Phase 12 & 24V		320-1689-05	1	35Amps
	526-0052	9	ISO GND 3 Phase 12 & 24V		320-1689-12	1	55Amps
13			Screw, Locking Head (1/4-20UNC x 14.30D x .8)				MDKBR
	821-0009	4	Neg GND 1 Phase 12 & 24V		320-1689-06	1	40Amps
	821-0009	6	Neg GND 3 Phase 12 & 24V		320-1689-07	1	45Amps
			ISO GND 1 Phase 12 & 24V				MDKBR, MDKBV
	821-0009	8	ISO GND 3 Phase 12 & 24V		320-1689-08	1	50Amps
14	856-0006	4	Washer, ETIT Locking (1/4")		320-1689-09	1	55Amps
15	871-0016	5	Nut, Hex (1/4-20")		320-1689-12	1	70Amps
16	810-0155	2	Screw, Round Head (1/4-20UNC x 1.25")				
17	337-2795	1	Strap, Bond				
18	853-0016	2	Washer, ET Locking (5/16")				
19	821-6003-01	1	Screw, Hex Head Sems (M8 x 1.25 x 16mm)				

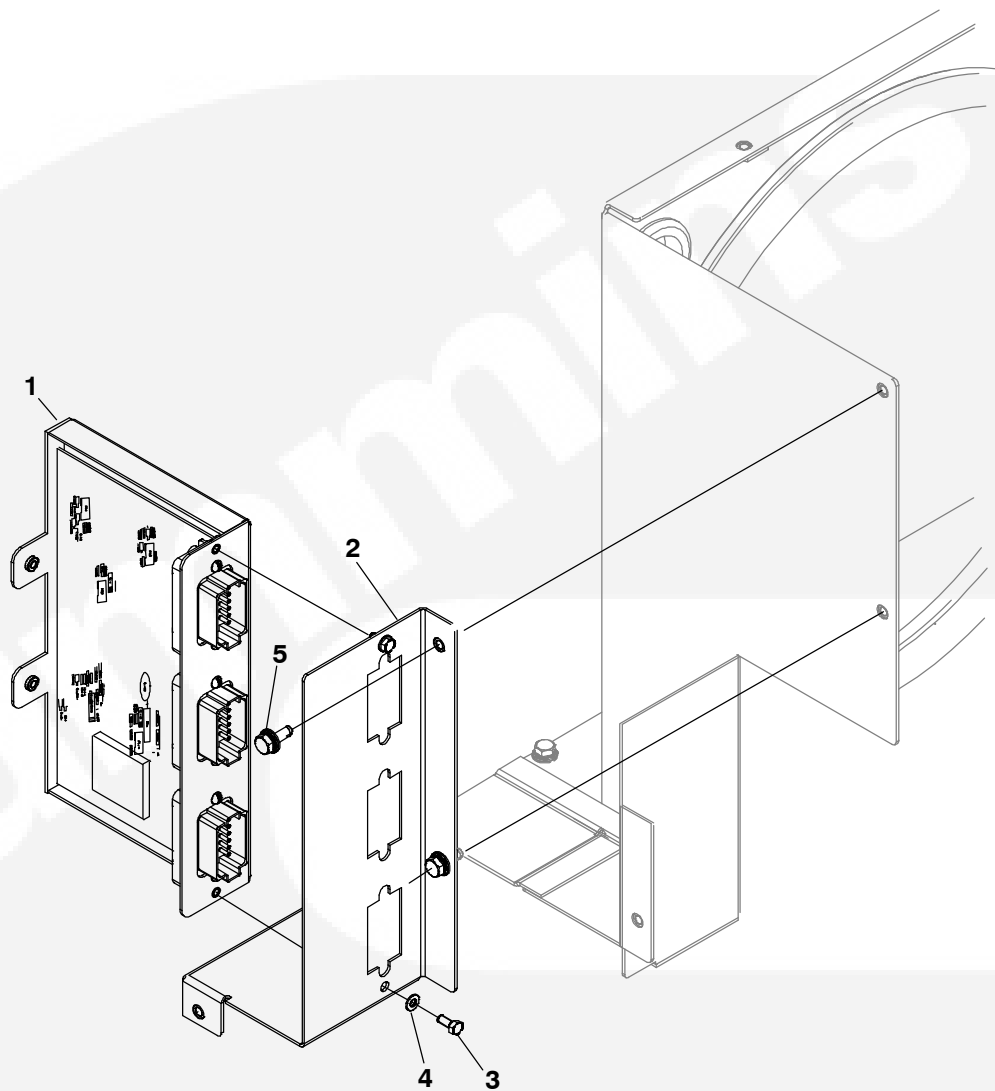
SmartCraft is a trademark of the Brunswick Corporation.

Control Panel Components



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1			Assy, Engine Panel (See Control Panel for Parts)	6			Relays
	300-6362-03	1	12V		307-2767	2	12V
	300-6362-04	1	24V		307-2819	2	24V
2	818-1150-03	8	Rivet, Drive Plastic (Std)	7	323-1563	2	Contact, Relay
3	300-6363-01	1	Assy, Control	8	871-0016	5	Nut, Hex (.25-20UNC)
4	800-6002	2	Screw, Hex Head Cap (M5 x .8 x 10mm)	9	526-0052	1	Washer, Flat (6.75 x14.3)
5	870-2062	2	Nut, Nylon Lock (M5)	10	856-0006	2	Washer Etit Locking (1/4")
				11	810-0155	2	Screw, Round Head (.25-20UNC 1.25")

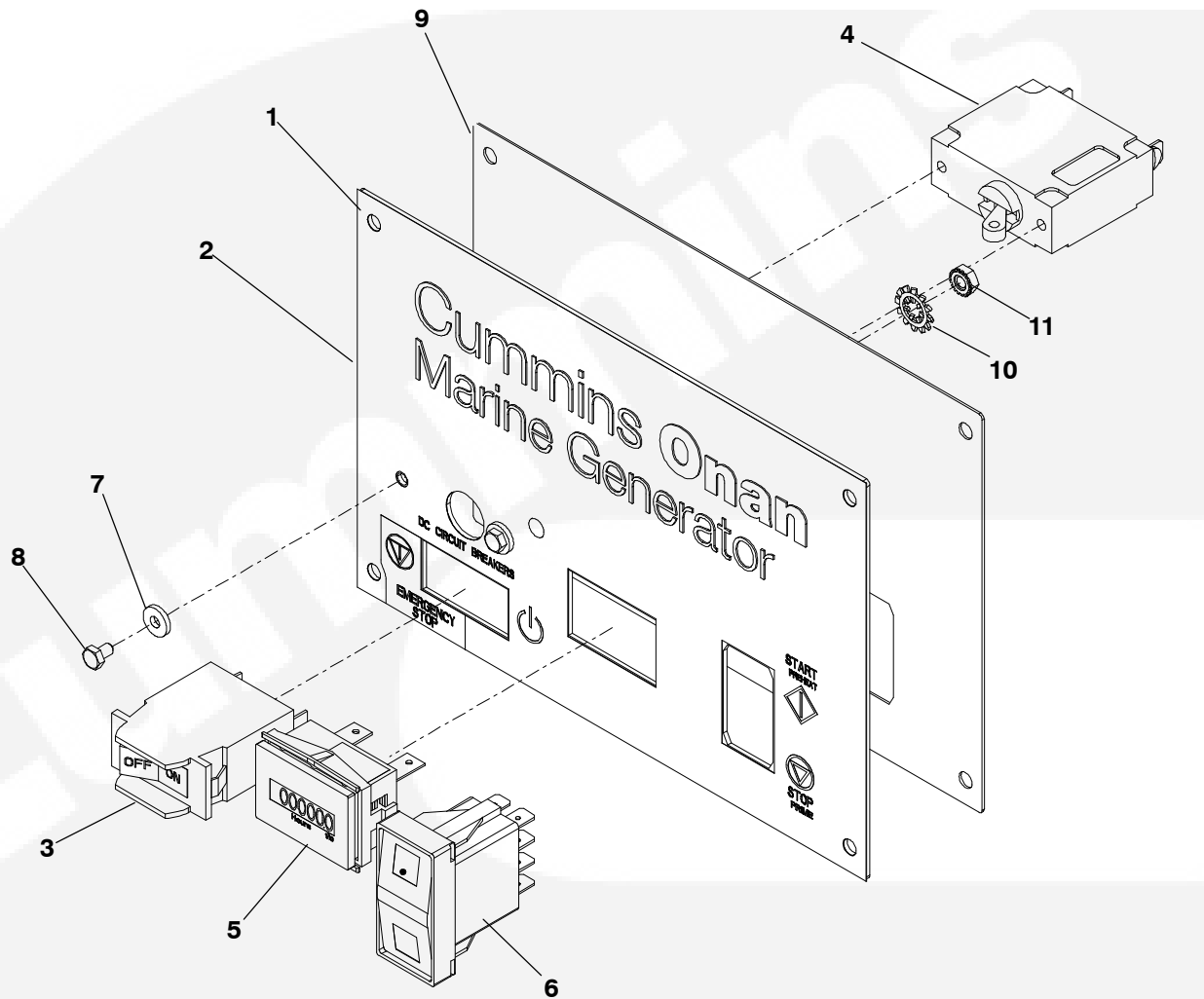
PCB Mounting



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	300-6396	1	PCB, Control
2	404-0022-03	1	Panel, UMC Mounting
3	800-3042	2	Screw, Hex (M4)

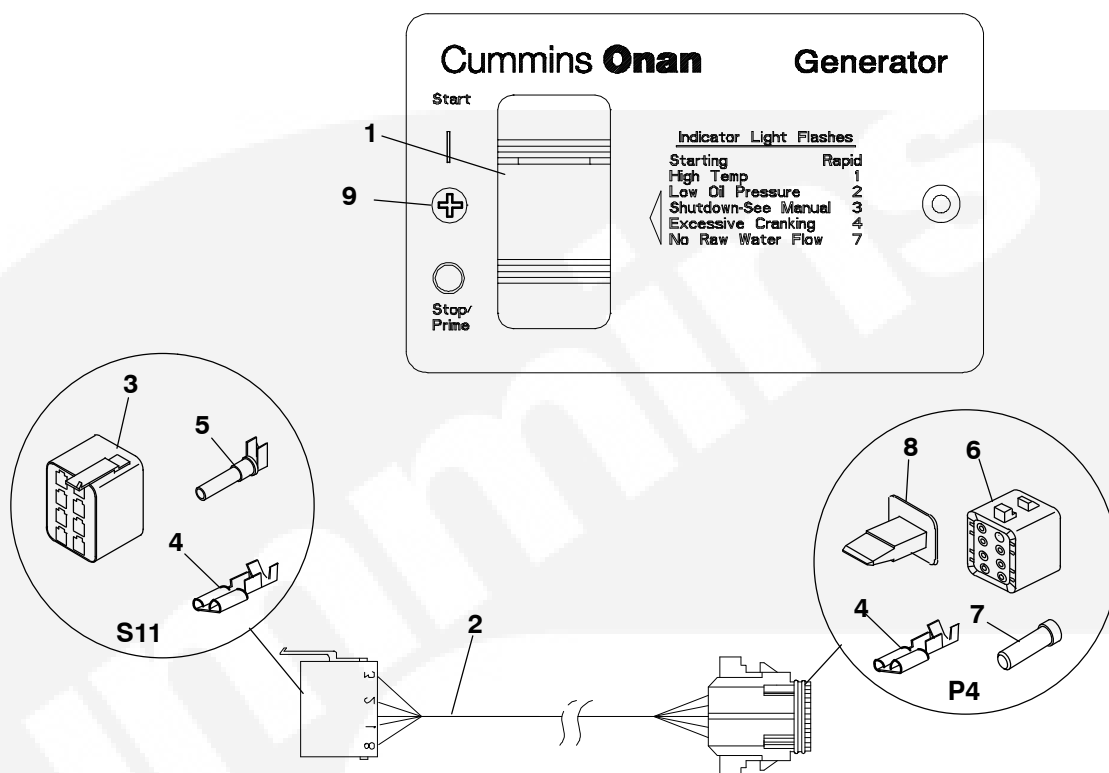
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
4	526-2050	2	Washer, Flat (M4)
5	800-6395-01	2	Screw, Hex Head Sems Stainless (M6 x 1 x 16mm)

Control Panel Components (Breaker Switch)



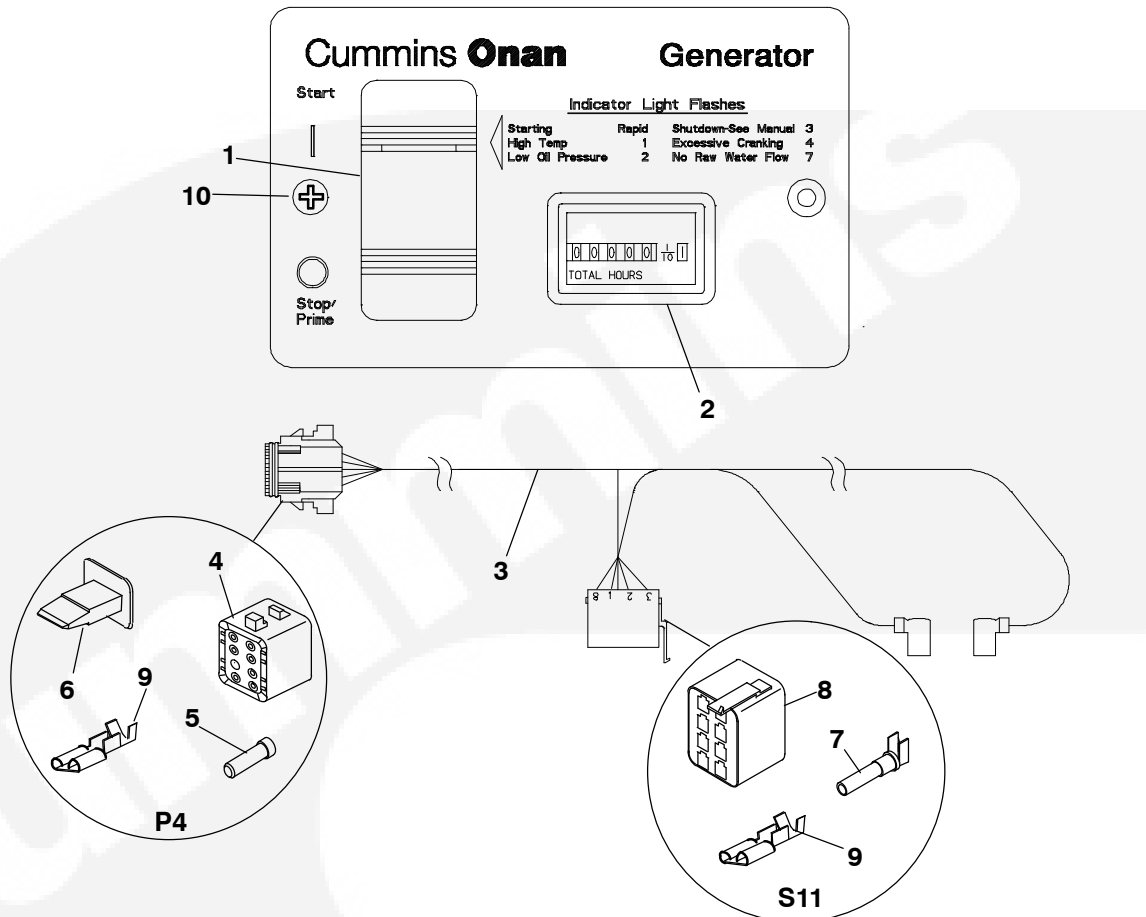
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Assy, Engine Panel (All Parts Included)	6			Breaker Circuit
	300-6362-03	1	12V		308-1218	1	12V
	300-6362-04	1	24V		308-1219	1	24V
1	319-6871-02	1	Panel, Control	7	526-1002	2	Washer, Flat DAC
2	98-8713	1	Label, Information (Control)	8	800-0309-10	2	Screw, Hex Head Mach (6-32 x 1/4")
3	320-2361	1	Breaker Circuit	9	319-6873	1	Panel, Control Box
4	320-2362	1	Breaker Circuit	10	856-0003	1	Washer, EIT Lock (#10)
5	302-2048	1	Meter, Hour	11	870-0131	1	Nut, Sems EIT (#10-32)

Remote Switch Panel



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Kit, Remote Switch Harness (Includes Parts Marked +)	3	308-1019	1	*Connector, Switch (S11)
	541-0941-01	1	12V	4	332-2890	6	*Terminal, Receptacle (.25")
	541-0941-02	1	24V	5	323-1492	6	*Terminal, Socket
			Kit, Panel Remote (Includes Parts Marked #)	6	323-1541	1	*Plug, (8 Pin)
	300-5725-01	1	12V	7	323-1491	3	*Plug, Seal
	300-5725-02	1	24V	8	323-1543	1	*Wedge, Plug (8 Pin)
1			#+ Switch, Rocker (S11)	9	815-0910	2	#Screw, Wood (#6 x 1)
	308-1101	1	12V	10	98-8092	1	+ Label, Instructions (Not Shown)
	308-1102	1	24V	11	98-8081	1	#+ Label, Warning (Not Shown)
2			#+ Harness, Remote Panel (Includes Parts Marked *)				- Parts Included in Remote Panel.
	541-0941-01	1	12V				+ - Parts Included in Remote Switch Harness. Instructions included in Kits only
	541-0941-02	1	24V				

Remote Switch/Hourmeter Panel

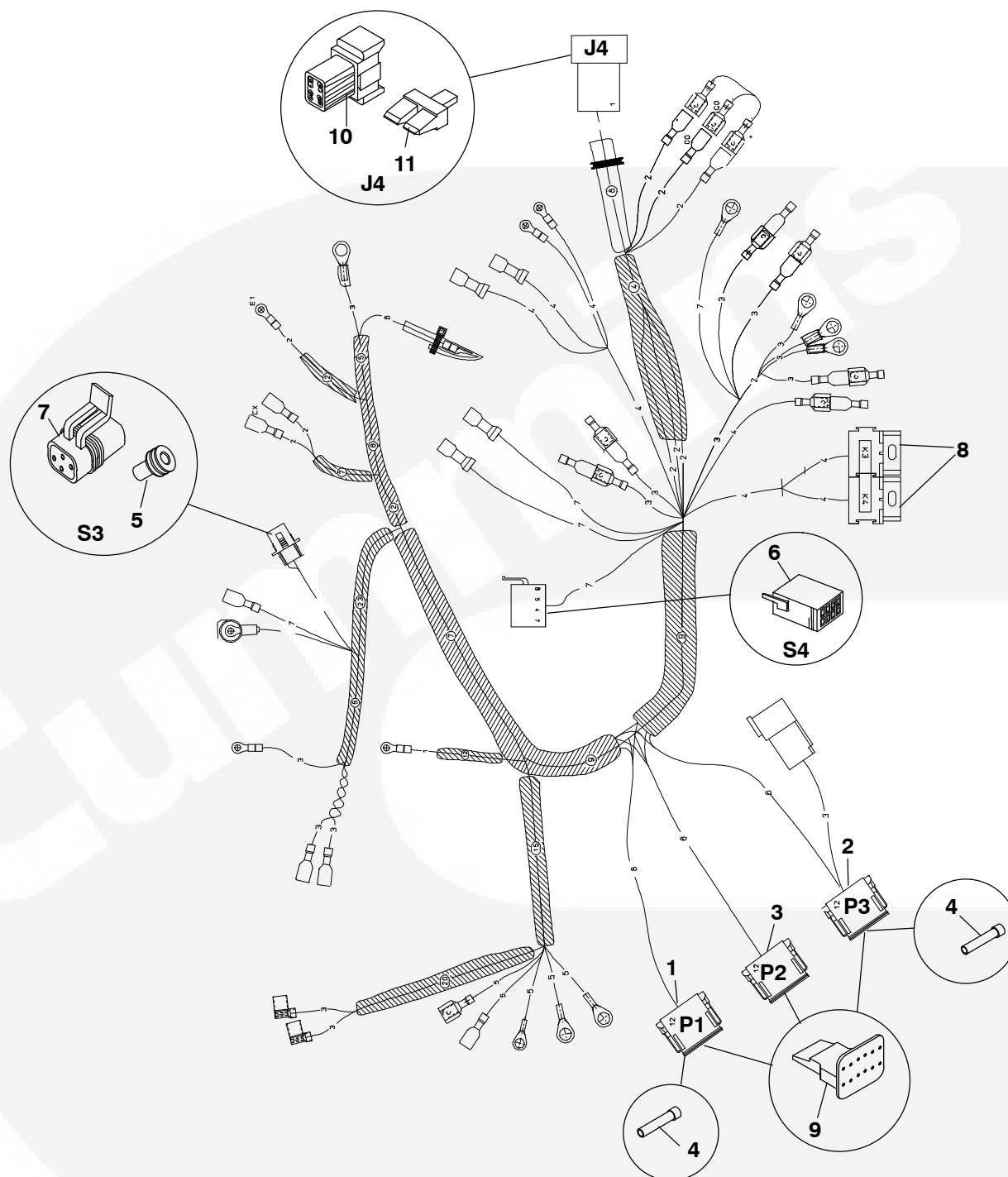


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-5727-01	1	Kit, Remote Panel 12V
	300-5727-02	1	24V
1	308-1101	1	Switch, Rocker (S11) 12V
	308-1102	1	24V
2	302-2002	1	Meter, Hour (M11)
3	338-3990	1	Harness, Remote Panel (Includes Parts Marked *)
4	323-1541	1	*Plug (8 Pin) (P4)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	323-1591	2	*Plug, Seal
6	323-1543	1	*Wedge, Plug (8 Pin)
7	323-1492	6	*Pin, Contact
8	308-1019	1	*Connector, Switch (S11)
9	332-2890	6	*Terminal, Receptacle (.25")
10	815-0910	2	Screw, Wood (#6 x 1)
11	98-8081	1	Label, Panel (Not Shown)

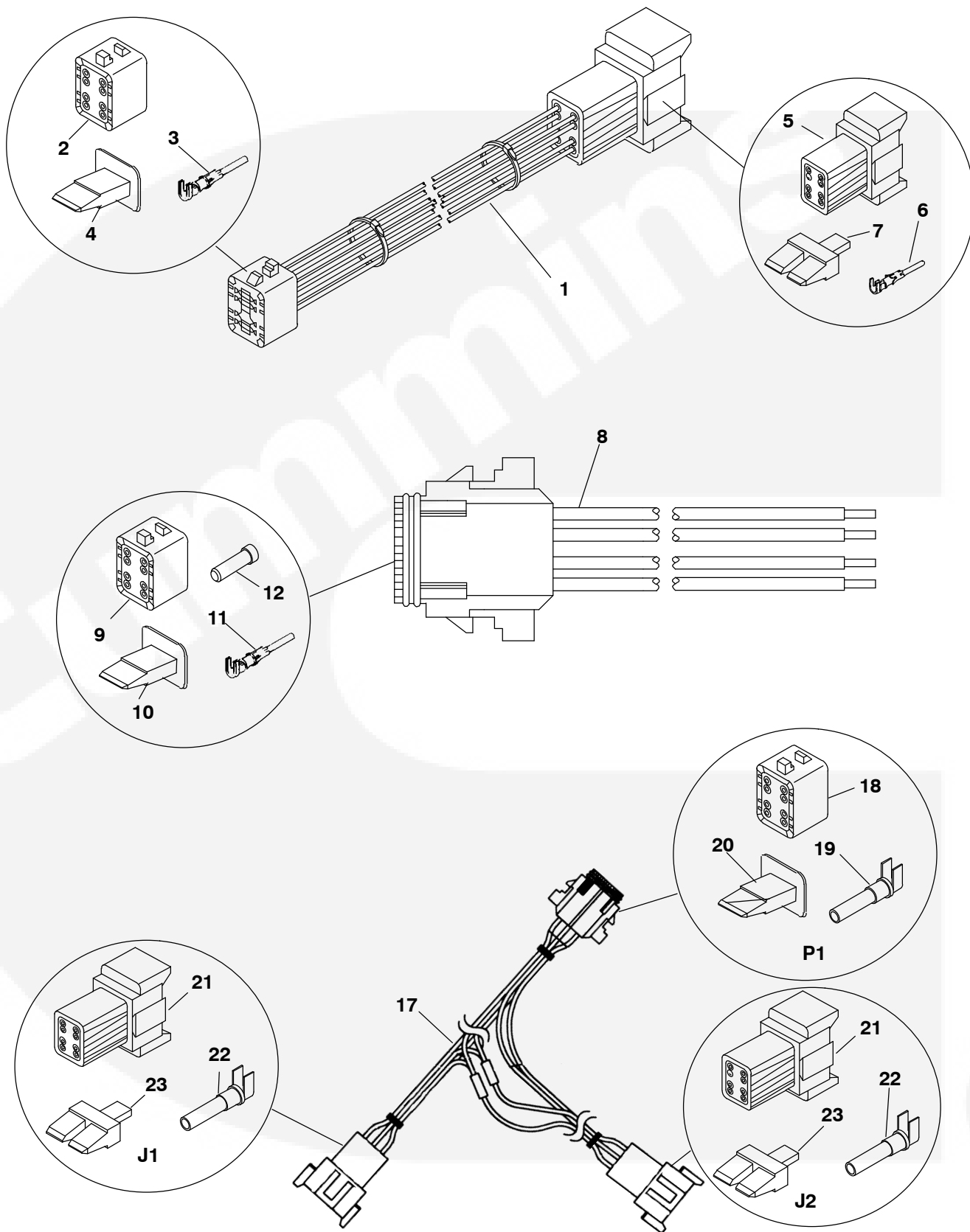
* - Parts Included in Remote Panel Wiring Harness.

Control Harness

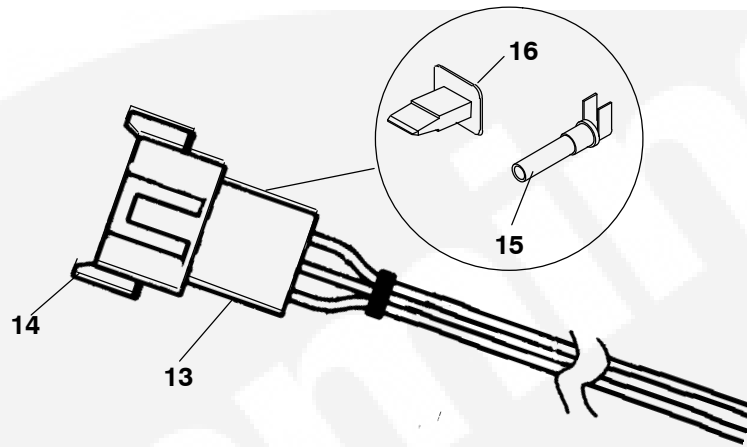


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	338-5174	1	Harness, Control	7	323-1765	1	Connector, Housing 4 Pin (S3)
1	323-1582-06	1	Plug (12 Pin, Black P1)	8	323-1563	1	Socket, Relay
2	323-1582-05	1	Plug (12 Pin, Gray P3)	9	323-1583	3	Plug, Wedge 12 Pin, P1, P2, P3
3	323-1582-07	1	Plug (12 Pin, Green P2)	10	323-1542	2	Connector, Receptacle 8 Pin (J4, J8)
4	323-1591	AR	Plug (P1)	11	323-1544	2	Receptacle, Wedge(J4, J8)
5	323-1708	AR	Seal,Cable(S3)	12	98-7917	1	Label, Information (Not Shown)
6	308-1019	1	Switch, Connector (S4)				

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	338-4017	1	Harness, Pigtail (Includes Parts Marked @)
	338-3167	1	15 feet	14	323-1542	1	@Connector, Receptacle (8 Pin)
	338-3168	1	25 feet	15	323-1491	AR	+Terminal, Pin
	338-3169	1	45 feet	16	323-1544	2	@Wedge, Lock (8 Pin)
	338-3169-01	1	75 feet				
	338-3169-02	1	100 feet	17	338-4016	1	Harness, Junction (Includes Parts Marked +)
	338-3169-03	1	150 feet				
2	323-1541	1	#Plug (8 Pin)	18	323-1541	1	±°Plug, Connector (8 Pin)
3	323-1492	8	#Terminal, Socket	19	323-1492	AR	±°Terminal, Socket
4	323-1543	1	#Wedge, Plug (8 Pin)	20	323-1543	1	±°Wedge, Plug (8 Pin)
5	323-1542	1	#Receptacle, (8 Pin)	21	323-1542	2	+Connector, Receptacle (8 Pin)
6	323-1491	8	#Terminal, Pin	22	323-1491	AR	@Terminal, Pin
7	323-1544	1	#Wedge, Receptacle (8 Pin)	23	323-1544	2	+Wedge, Lock, Receptacle (8 Pin)
8	338-4223	1	Harness, Remote Panel				
9	323-1541	1	Plug (8 Pin)				
10	323-1543	1	Wedge, Plug (8Pin)				
11	323-1492	AR	Terminal, Socket				
12	323-1591	AR	Plug, Seal				

- Parts Included in Remote Extension Harness.

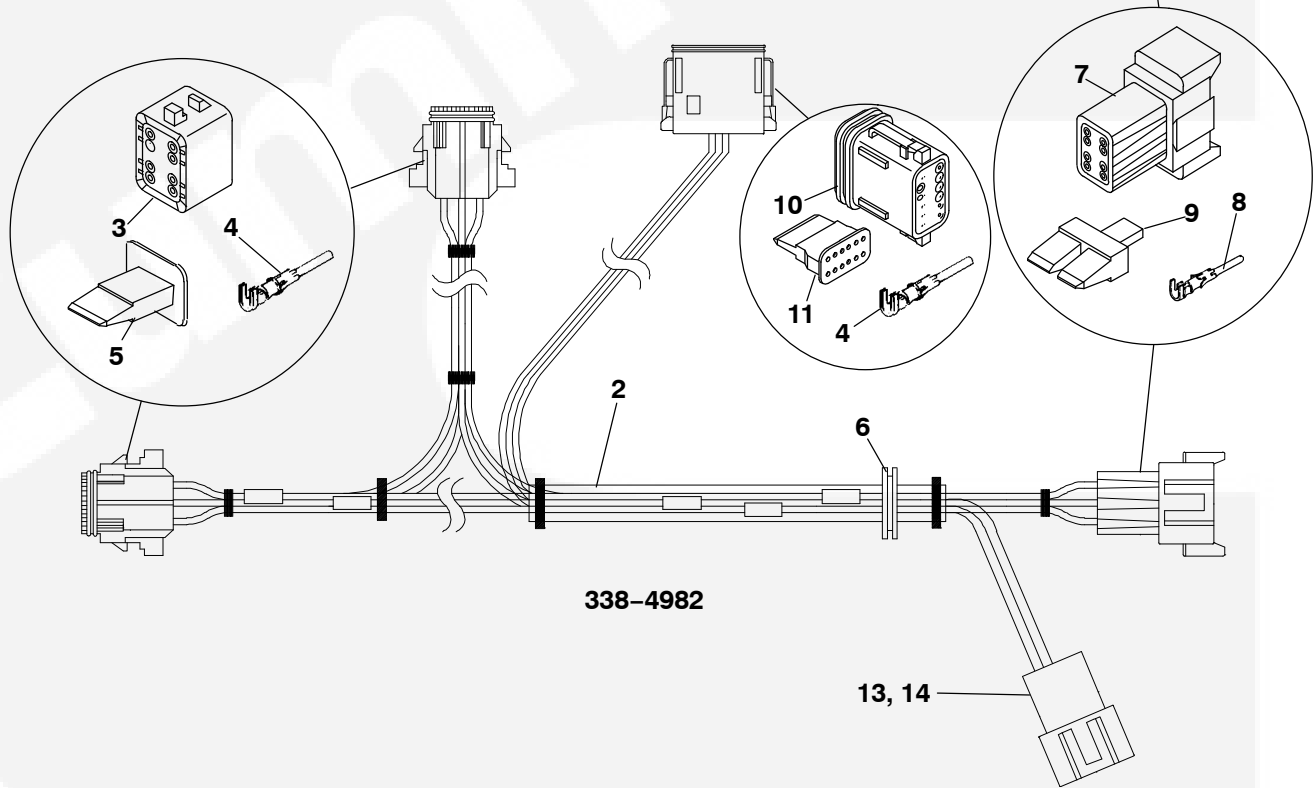
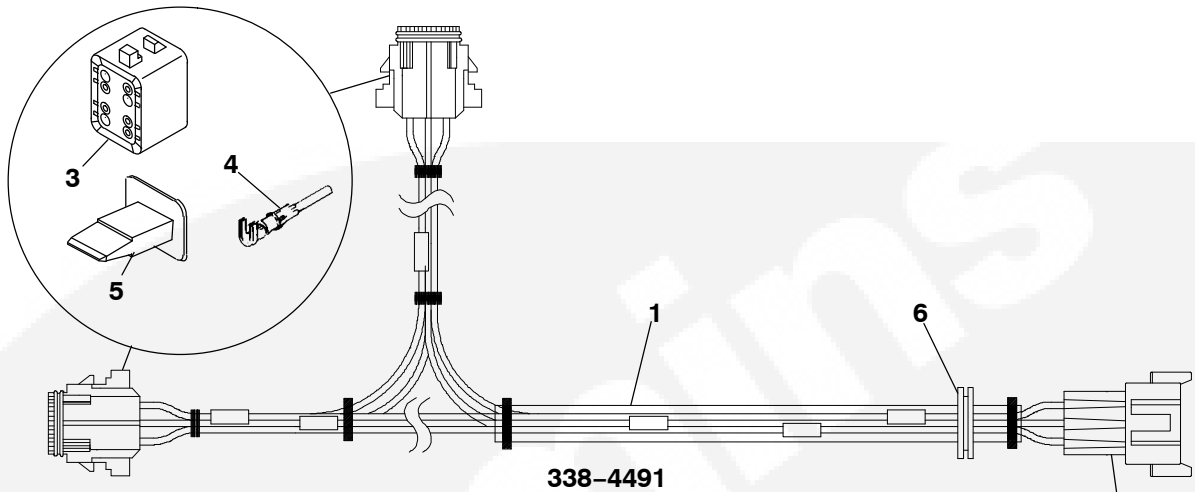
* - Parts Included in Custom Pigtail Harness.

° - Parts Included in Adapter Harness.

.+ - Parts Included in Junction Harness.

.@ - Parts Included in Pigtail Harness.

Wiring Harnesses



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	338-4491		Harness, Remote (Includes Parts marked *)
2	338-4982		Harness, Remote (Includes Parts marked +)
3	323-1541	2	*+ Connector, Plug (8Pin)
4	323-1492	1	*+ Terminal, Socket
5	323-1543	1	*+ Wedge, Plug (8 Pin)
6	508-1105	1	*+ Grommet

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
7	323-1542	1	*+ Connector, Receptacle
8	323-1491	8	*+ Terminal, Pin
9	323-1544	1	*+ Wedge, Receptacle (8 Pin)
10	323-1582	1	Connector, Plug (10Pin)
11	323-1583	1	Wedge, Plug (10Pin)
12	323-1492	1	Terminal, Socket (Not Shown)
13	323-2524	1	Housing, Receptacle
14	323-2522	1	Seal, Connector

Labels, Kits

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	98-7525	1	Label, Batt B+		98-8714	2	Label, Logo (Cummins, Onan)
	98-8340	1	Label, Logo		98-8715	2	Label, Logo (Cummins, Onan)
	98-8111	1	Label, Information Program		98-8717	1	Label, Logo (Cummins, Onan)
	98-8053	1	Label, Information Relay		98-8701	1	Label, Information (Front)
	98-8323	1	Label, Information Display		98-8699	1	Label, Information (Rear)
	98-4798-01	1	Label, Warning (Unhoused)		98-8703	1	Label, Information (PTO)
	98-5161	1	Label, Coolant (Housed)		100-3478-04	1	Kit, Cruise Includes
	98-6995	4	Label, Warning (Housed)				All of The Following Items:
	98-8601	1	Label, Information Sheet		A026K278	2	Filter, Fuel
		4	Label, Warning		122-0810	2	Filter, Oil
		1	Label, Information (No Step)		541-1521	2	Kit Pump, Service
		1	Label, Warning (Coolant)		511-0211	2	Belt
		1	Label, Information (Coolant)		130-4434	2	Pencil, Zinc
		1	Label, Information (Oil Fill)				
		1	Label, Information (Lifting)		100-3478-05	1	Kit, Cruise Includes
	98-8689	1	Label, Information Sheet				All of The Following Items:
		1	Label, Information		A026K278	2	Filter, Fuel
		1	Label, Information (Service)		122-0810	2	Filter, Oil
		1	Label, Warning		185-7055	2	Belt
		1	Label, Information (No Step)		130-4434	2	Pencil, Zinc
		1	Label, Danger				
		1	Label, Warning (Coolant)		300-5725-01	1	Kit, Remote Panel
		1	Label, Information Ground		300-5725-02	1	Kit, Remote Panel
					332-3771	1	Kit, Terminal Boot

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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>
0132-0293, 47		102-1567, 27		110-4110, 19		130-7987-02, 43	
0132-0368, 47		103-0832, 24		110-4111, 19		130-8281, 22	
0132-0387, 47		103-0864, 24		112-0333, 9		132-0293, 46	
0132-0388, 47		103-0869, 24		112-0334, 9		132-0346, 43 , 45	
0132-0391, 47		104-2029, 13		112-0345, 9		132-0385, 46	
0132-0393, 47		104-2031, 13		112-0346, 9		132-0386, 46	
0132-0499, 47		104-2032, 13		112-0348, 9		132-0387, 46	
0541-1521, 47		104-2033, 10		113-0357, 9		132-0388, 46	
0850-2089, 47		104-2034, 10		113-0358, 9		132-0389, 46	
098-4798-01, 85		104-2035, 13		115-0567, 23		132-0390, 46	
098-5161, 85		104-2036, 10		115-0568, 11		132-0391, 46	
098-6995, 85		104-2037, 10		120-1387-03, 25		132-0392, 46	
098-7525, 85		104-2038, 10		122-0810, 85		132-0393, 46	
098-7541, 43		104-2039, 13		122-0886, 26		132-0394, 46	
098-7917, 81		104-2040, 13		122-0893, 26		132-0413, 43 , 45	
098-8053, 85		104-2041, 10		122-0942, 26		132-0416, 46	
098-8081, 79 , 80		104-2042, 10		122-0943, 26		132-0417, 46	
098-8092, 79		104-2043, 10		122-0944, 26		132-0420, 46	
098-8111, 85		104-2044, 10		123-2262, 7 , 8		132-0444, 28 , 29	
098-8323, 85		104-2134, 12		123-2264, 23		132-0446, 28 , 29	
098-8340, 85		104-2164, 13		123-2423, 23		132-0447, 28 , 29	
098-8601, 85		104-2165, 10		123-2424, 7 , 8		132-0499, 46	
098-8689, 85		104-2166, 13		123-2429, 7 , 8		132-0520, 28	
098-8699, 85		105-0741, 14		130-3571, 50		132-0521, 29	
098-8701, 85		105-0771, 11		130-3572, 50		134-5299-02, 63	
098-8703, 85		105-0772, 11		130-3574, 50		134-5391, 23	
098-8713, 78		110-3948, 20		130-3721, 43 , 49		140-2859, 52	
098-8714, 85		110-3987, 19		130-4434, 43 , 85		140-3048, 52	
098-8715, 85		110-4097, 19		130-4566, 43		146-0891, 35	
098-8717, 85		110-4098, 19		130-4830, 43 , 45		147-0902, 18	
100-3478-04, 85		110-4099, 19		130-4960, 43		147-0983, 18	
100-3478-05, 85		110-4100, 19		130-4961, 43		149-1908-05, 37 , 38	
100-4103-01, 7		110-4101, 19		130-4962-01, 43		149-1914-05, 38 , 39	
100-4103-02, 7		110-4102, 19		130-4979, 43		149-1949, 38 , 39	
100-4104-01, 8		110-4103, 20		130-5012, 43		149-1952, 38 , 39	
100-4104-02, 8		110-4104, 20		130-5469-03, 62		149-1953, 38	
101-0811, 12		110-4105, 8		130-5470-03, 62		149-2041-03, 37	
101-0821-S0, 12		110-4106, 19		130-6329, 22		149-2045, 38 , 39	
101-0836, 13		110-4107, 19		130-6347, 28 , 29		149-2046, 38	
101-0837, 7 , 8		110-4108, 19		130-7881-02, 49		149-2047, 38 , 39	
102-1449-01, 25		110-4109, 19		130-7986-02, 43		149-2634-01, 35	

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>
149-2646, 35		155-3220, 58		185-2578, 18		185-5868, 19	
149-2759-03, 36		155-3221, 58		185-2961, 31 , 32		185-5877, 24	
149-2795, 35		155-3222, 58		185-4255, 24 , 30		185-5878, 24	
149-2862-03, 35		155-3223, 58		185-5337, 21		185-5879, 24	
150-2798, 14		155-3224, 58		185-5407, 23		185-5880, 24	
150-2800, 14		155-3284, 48		185-5483, 7 , 8		185-5893, 13	
150-2805, 16		155-4690, 56		185-5529, 15		185-5899, 13	
150-2836, 16		155-4691, 56		185-5575, 14		185-5900, 11	
150-2840, 15		185-5922, 9		185-5612, 21		185-5901, 11	
150-2841, 15		181-9025, 23		185-5615, 21		185-5905, 10 , 11 , 30	
150-2842, 16		181-9034, 17 , 24		185-5727, 15		185-5906, 11	
150-2844, 15 , 17		181-9096, 32		185-5768, 31 , 32		185-5917, 9	
150-2853, 17		181-9238, 23		185-5769, 31 , 32		185-5918, 9	
150-2918, 34		185-2094, 7 , 8		185-5771, 31 , 32		185-5921, 9	
150-2978, 14		185-2096, 25		185-5773, 31		185-5924, 10 , 11	
150-2979, 17		185-2106, 18 , 22		185-5774, 31 , 32		185-5925, 10	
150-2981, 15		185-2153, 24		185-5775, 31 , 32		185-5928, 10	
150-2983, 14		185-2188, 19		185-5777, 31		185-5929, 10	
150-2984, 14		185-2233, 7 , 8		185-5783, 31 , 32		185-5930, 10	
150-2986, 16		185-2234, 7 , 8		185-5784, 31 , 32		185-5931, 10	
150-2993, 14		185-2284, 15		185-5785, 31 , 32		185-5947, 14	
152-0385, 15		185-2338, 7		185-5786, 31 , 32		185-5949, 14	
154-2887, 54		185-2345, 21		185-5787, 31 , 32		185-5962, 14	
154-2891, 55 , 56		185-2350, 7 , 8		185-5788, 31 , 32		185-5963, 14	
154-2915, 54		185-2351, 15		185-5789, 31 , 32		185-5985, 21	
154-2963-02, 56		185-2352, 7 , 8		185-5790, 31 , 32		185-5986, 21	
154-3163, 55		185-2367, 22 , 28 , 29		185-5840, 7 , 8		185-5987, 21	
155-1002, 58		185-2385, 21		185-5841, 7 , 8		185-5989, 21	
155-2029, 58		185-2386, 7 , 28		185-5842, 7 , 8		185-5990, 21	
155-2030, 58		185-2388, 15		185-5843, 7 , 8 , 24		185-5994, 30 , 31	
155-2063-09, 57		185-2389, 8 , 29		185-5844, 7 , 8		185-5999, 22	
155-2064-09, 57		185-2390, 17		185-5846, 7 , 8		185-6004, 22	
155-2355-04, 57		185-2400, 11		185-5847, 7		185-6007, 28 , 29	
155-2975, 54		185-2401, 22		185-5848, 7 , 8		185-6013, 28 , 29	
155-2981, 56		185-2402, 52		185-5849, 7 , 8		185-6016, 20	
155-3061, 55 , 56		185-2403, 13		185-5851, 7 , 8		185-6017, 20	
155-3068-02, 56		185-2404, 13 , 28 , 29		185-5854, 25		185-6018, 20	
155-3069-02, 56		185-2412, 19		185-5861, 19		185-6019, 20	
155-3087, 48		185-2559, 24		185-5862, 19		185-6020, 20	
155-3216, 58		185-2563, 25		185-5865, 19		185-6022, 20	
155-3217, 58		185-2565, 22		185-5867, 19		185-6025, 20	

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>
185-6026, 20		185-6789, 20		191-2169-01, 33		306-5439, 16	
185-6028, 20		185-6809, 32		191-2169-02, 33		307-1617, 59	
185-6029, 20		185-6812, 32		191-2170, 33		307-2656, 59	
185-6030, 20		185-6813, 31		191-2489-02, 33		307-2767, 76	
185-6035, 52		185-6815, 32		191-2505, 30		307-2819, 76	
185-6040, 7 , 8		185-6816, 32		191-2506, 30		308-1019, 79 , 80 , 81	
185-6048, 19		185-6819, 31 , 32		193-0244-99, 25		308-1101, 79 , 80	
185-6072, 11		185-6820, 32		193-0318, 22		308-1102, 79 , 80	
185-6076, 9		185-6956, 14		193-0430-01, 25		308-1218, 78	
185-6081, 10		185-6957, 20 , 22 , 28 , 29		193-0457-01, 22		308-1219, 78	
185-6094, 21				193-0468, 49		309-0597-01, 55 , 56	
185-6095, 21		185-6973, 10		201-3515-02, 71		309-0717, 43	
185-6103, 23		185-7004, 21		201-3517-02, 71		319-4404, 75	
185-6121, 7 , 8		185-7013, 28 , 29		201-3517-04, 71		319-6227-03, 75	
185-6153, 18		185-7016, 30		205-0229-02, 71		319-6228-03, 75	
185-6154, 18		185-7021, 28 , 29		211-0435-01, 71		319-6871-02, 78	
185-6164, 15		185-7031, 7 , 8		220-4413-02, 71		319-6873, 78	
185-6186, 31		185-7045, 18		220-4618-02, 71		320-1689-04, 75	
185-6189, 31		185-7055, 85		220-4618-04, 71		320-1689-05, 75	
185-6241, 29		185-7069, 7 , 8		220-4619-02, 71		320-1689-06, 75	
185-6418, 18		185-7076, 31 , 32		220-4619-04, 71		320-1689-07, 75	
185-6445, 29		185-7134, 18		232-3672-03, 71		320-1689-08, 75	
185-6481, 24		185-7166, 15 , 17		232-3706-02, 71		320-1689-09, 75	
185-6667, 27		185-7221, 20		232-3826-02, 71		320-1689-12, 75	
185-6711, 24		190-0729-01, 51		234-0935-02, 71		320-2361, 78	
185-6715, 52 , 53		190-0729-02, 51		300-5040, 22		320-2362, 78	
185-6722, 23		190-0763-02, 51		300-5041, 22		323-1491, 79 , 83 , 84	
185-6723, 52		190-0766-03, 51		300-5725-01, 79 , 85		323-1492, 79 , 80 , 83 , 84	
185-6724, 30 , 32		190-0767-02, 51		300-5725-02, 79 , 85			
185-6725, 21		190-0768, 51		300-5727-01, 80		323-1541, 79 , 80 , 83 , 84	
185-6727, 25		190-0769-04, 51		300-5727-02, 80			
185-6728, 25		190-0771-02, 51		300-6362-03, 76 , 78		323-1542, 81 , 83 , 84	
185-6731, 21		190-0771-04, 51		300-6362-04, 76 , 78		323-1543, 79 , 80 , 83 , 84	
185-6756, 18		190-0771-06, 51		300-6363-01, 76			
185-6757, 18		190-0792-04, 51		300-6396, 77		323-1544, 81 , 83 , 84	
185-6758, 18		190-0890-03, 69		302-2002, 80		323-1563, 76 , 81	
185-6759, 16 , 24 , 30		190-0891-03, 69		302-2048, 78		323-1582, 84	
185-6761, 25		190-0893-03, 69		302-2084, 24		323-1582-05, 81	
185-6766, 13		190-0896-02, 51		306-5316-01, 34		323-1582-06, 81	
185-6771, 9		191-1550, 12		306-5316-02, 34		323-1582-07, 81	
185-6787, 31		191-1959, 12		306-5438, 11		323-1583, 81 , 84	

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>
323-1591, 80 , 81 , 83		403-3955, 60		405-9751-03, 66		503-1898, 49	
323-1708, 81		403-4581-02, 60		405-9764-02, 72 , 73		503-1899, 49	
323-1765, 81		403-6788-02, 60		406-0958, 66		503-1939, 52	
323-2522, 84		403-7060-02, 12		406-1032, 67 , 68		503-1977, 43	
323-2524, 84		404-0018-03, 63		406-1071, 11		503-1999, 49	
327-0923, 43 , 45		404-0019-03, 63		501-0886, 21		503-2023, 45 , 48	
327-1686-02, 75		404-0020-03, 63		501-0909-01, 53		503-2079, 45 , 48	
327-1686-03, 75		404-0021-03, 63		501-0910, 25		503-2122, 43	
332-1389, 52		404-0022-03, 63 , 77		501-0997-01, 39		503-2122-01, 45	
332-2370, 75		404-0023-03, 63		501-0997-02, 39		503-2309, 40	
332-2890, 79 , 80		404-0024-03, 63		501-1005, 53 , 55		503-2552, 22 , 27	
332-3750, 75		404-0039-03, 68		502-0020-01, 35 , 37		503-2553, 22	
332-3771, 85		404-0040-03, 69		502-0029, 37		503-2588-06, 36	
332-3865-03, 72 , 73		404-0045, 63		502-0055, 35		503-2728-01, 40	
333-0732-02, 59		404-0057, 55		502-0079, 35		503-2806, 35	
337-0090-02, 61		404-0058, 39		502-0153, 38 , 39 , 49		503-2808, 35 , 36	
337-2784-02, 61 , 72 , 73		404-0090-03, 64		502-0175, 35		503-2823, 43 , 45 , 49 , 52 , 53 , 55	
		404-0096-03, 68		502-0263, 25		503-2883-11, 35	
337-2785, 61		404-0097-03, 67		502-1123, 25		503-2883-12, 35	
337-2795, 75		404-0098-03, 67		502-1133, 36		503-2909, 43	
337-4114, 21		404-0100, 69		502-1245, 35		503-2910, 43	
338-3167, 83		404-0159, 69		502-1295-01, 45		503-2935-03, 36	
338-3168, 83		404-0160, 69		502-1295-02, 45		503-2953, 39	
338-3169, 83		404-0161, 69		502-1297, 45		503-2954, 39	
338-3169-01, 83		404-0572, 64		502-1367-01, 35		503-3129, 27	
338-3169-02, 83		404-0573-03, 68		502-1367-02, 36		503-3134, 27	
338-3169-03, 83		404-0575, 69		502-1425-02, 40		503-3142, 22	
338-3990, 80		404-0576, 68		502-1463, 40		504-0223, 40	
338-4016, 83		405-5052, 64 , 65		502-1615, 36		505-0003, 45 , 48	
338-4017, 83		405-6340, 64 , 65		503-0977, 40		505-0041, 45 , 48	
338-4200-01, 59		405-6684, 63		503-1133, 58		505-0304, 45 , 48	
338-4200-02, 59		405-6819, 69		503-1136, 43 , 45		505-0339-02, 56	
338-4223, 83		405-6993-01, 67		503-1137, 43 , 45 , 48		505-0446-01, 45 , 48	
338-4491, 75 , 84		405-6995-01, 67		503-1138, 43 , 45 , 48 , 49 , 52		505-0759, 45 , 48	
338-4623-02, 72 , 73		405-7179, 68		503-1139, 58		505-1490, 35	
338-4982, 75 , 84		405-7347, 67		503-1142, 53 , 55 , 58		505-2529, 8	
338-5174, 81		405-7430, 63		503-1143, 43 , 52		506-0028, 16	
358-0069, 71		405-9079, 63		503-1163, 43		507-0006, 10	
358-0070, 71		405-9129, 63		503-1692, 50		507-0007, 11	
402-0681-01, 75		405-9568, 66		503-1896, 43		507-0008, 11	
403-3573, 60		405-9631, 63					

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>
507-0041, 14		517-0138-07, 63		541-0876-01, 40		800-3032, 12 , 35 , 51 , 61 , 72 , 73	
507-0042, 10		517-0138-08, 75		541-0941-01, 79		800-3033, 12 , 51	
508-0021, 63 , 68 , 69		517-0138-09, 53 , 55		541-0941-02, 79		800-3042, 63 , 77	
508-0051, 63		517-0373, 7 , 8		541-1168, 9		800-6002, 75 , 76	
508-0117, 36		517-0392-19, 64 , 65		541-1169, 9		800-6062, 75	
508-1102, 40		517-0452, 7 , 8		541-1472-01, 55		800-6305, 16	
508-1105, 75 , 84		518-0548-08, 35		541-1472-02, 55		800-6306, 16	
508-1152, 63		518-0712, 14		541-1472-03, 55		800-6307, 15	
508-1203, 71		518-0713, 14		541-1472-04, 55		800-6327, 20	
508-1216, 11		518-0732, 9		541-1521, 46 , 85		800-6328, 22	
508-1341, 26		520-2218, 54		541-1523, 46		800-6329, 13	
509-0094, 71		520-2655, 28		718-1017, 67		800-6330, 23	
509-0351, 43		526-0008, 71		718-1035, 12		800-6331, 22	
509-0368, 63		526-0029, 72 , 73		718-1037, 56		800-6332, 22	
509-0410, 24		526-0045, 33		718-1048, 33		800-6333, 18	
509-0411, 25		526-0052, 75 , 76		725-1027, 34		800-6334, 16 , 24	
509-0412, 24		526-0054, 72 , 73		725-1053, 51		800-6335, 20	
509-0413, 24		526-0063, 34		725-1103, 51		800-6395-01, 53 , 55 , 62 , 63 , 64 , 75 , 77	
509-0414, 23		526-0145, 12		740-1004, 55 , 56		800-6414, 24	
509-0416, 13		526-0172, 60		750-1006, 36 , 49 , 54 , 61		801-1050, 51	
509-0418, 17		526-0174, 51 , 71		750-1010, 60		802-2068, 55 , 56	
509-0428, 25		526-0219, 33		800-0027, 33		810-0155, 75 , 76	
509-0554, 27		526-0399-11, 71		800-0051, 71		813-0100, 71	
509-0558, 15		526-0399-13, 35		800-0090, 51		815-0550-03, 75	
510-0112, 71		526-0399-42, 71		800-0104, 33		815-0904, 35	
510-0265, 14		526-0399-44, 71		800-0309-10, 78		815-0910, 79 , 80	
510-0266, 14		526-0399-58, 59		800-0310-04, 35		815-0916, 51	
510-0267, 14		526-0399-62, 12		800-0310-27, 71		815-0935, 71	
511-0211, 85		526-0399-64, 35 , 51		800-0310-36, 71		815-1595, 24	
511-0252, 30		526-0413, 25		800-0310-64, 71		815-1596, 30	
512-0445, 30		526-0451, 33 , 51		800-0317, 43		815-1598, 24	
514-0441, 22		526-1002, 78		800-2057, 43 , 45 , 61		815-1601, 25	
516-2145, 27		526-2050, 63 , 77		800-2067, 55 , 56		815-1602, 24	
516-2147, 10		526-2100, 12 , 43 , 45 , 49 , 54 , 55 , 56 , 61 , 75		800-2071, 33		818-0231-01, 75	
517-0131-02, 53 , 55		526-2106, 35		800-2113, 12		818-0231-02, 63	
517-0133, 63		526-2120, 35 , 43		800-2118, 60		818-0239-03, 64	
517-0136, 63 , 68 , 69 , 75		526-2140, 12 , 60 , 61 , 72 , 73		800-2515, 51 , 55 , 56		818-1150-03, 76	
517-0136-01, 36		541-0823, 59		800-3004, 35 , 43		821-0009, 75	
517-0138-04, 68		541-0824, 59		800-3005, 12 , 35		821-2035, 51	
517-0138-05, 75				800-3031, 35 , 59 , 60			

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>
821-6002-02, 35		A026K278, 85					
821-6002-03, 25		A026M935, 37					
821-6003-01, 35 , 36 , 43 , 45 , 75		A029N447, 62					
821-6003-02, 60		A029U129, 47					
823-1002-03, 72 , 73		A029U137, 47					
850-0045, 33		A029U252, 62					
850-0060, 33		A029U256, 62					
850-0114-06, 71		A029U260, 62					
850-0114-53, 59		A029U684, 47					
850-0165, 43		A029U686, 47					
850-2008, 56		A029U690, 47					
850-2056, 67		A029U693, 47					
853-0008, 71		A029U695, 47					
853-0013, 71		A029V897, 47					
853-0016, 59 , 75		A029V899, 47					
856-0003, 78		A029W624, 47					
856-0006, 75 , 76		A030B088, 65 , 67 , 68 , 69					
856-0008, 61 , 72 , 73		A030B824, 66					
856-0013, 61 , 72 , 73		A030F177, 64 , 65					
860-2008, 35		A030F179, 67 , 68					
860-2057, 63		A030P511, 62					
862-0003, 72 , 73		A030P519, 62					
862-0016, 33		A030P526, 62					
862-0026-30, 59		A030P528, 62					
862-0026-54, 59		A034T924, 47					
862-0026-55, 51		A035K157, 65					
870-0131, 59 , 71 , 78		A035K169, 65					
870-0221-01, 55		A035K171, 65					
870-2055, 33							
870-2062, 75 , 76							
870-2065-02, 68 , 69							
871-0016, 75 , 76							
871-0025, 61 , 72 , 73							
895-0395, 66 , 67							
895-0402, 63							
895-0411, 66							
898-1311-01, 43 , 45							
898-1311-02, 43							
898-1311-05, 39							
A026K127, 33							

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