

Cummins **Onan**



Parts Manual

Marine Generator Set

MDKUB (Spec A–J)

MDKWB (Spec A–G)

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. Using the model and specification number from your generator set nameplate, select parts that apply to your set. 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>
MDKUB/*	50/60
MDKWB/*	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.



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Index

A

Adapter, Bulkhead Metric, **77**
Adapter, Cylinder Head Pipe, **8**
Adapter, Oil Pressure Sender, **45 , 49**
Adapter, Pipe, **63**
Alternator, **52 , 53 , 54 , 55**
Angle, Insulating, **79**
Arm, Rocker, **33**
Assy , Rocker Arm, **34**
Assy Bearing, Case Wheel, **21**
Assy Cover, Bearing Case, **21**
Assy Main Bearing, **21**

B

Ball, Crankshaft, **13 , 14 , 15 , 16**
Ball, Injection Pump, **26 , 27**
Ball, Valve Seat, **49**
Base, Housing, **85**
Base, Mounting, **81**
Base, Oil, **68 , 69**
Bearing, Alternator Ball, **55**
Bearing, Crankshaft, **14 , 15**
Bearing, Crankshaft Thrust, **16**
Bearing, Fuel Camshaft, **26 , 27**
Bearing, Fuel Camshaft Ball, **26 , 27**
Bearing, Generator Ball, **91**
Bearing, Thrust, **13**
Bearing, Water Pump Ball, **50 , 51**
Belt, Fan, **53 , 54**
Block Assy, Brush, **91**
Block, Cylinder, **8 , 9 , 10**
Block, Terminal, **93**
Bolt, Bearing Case, **21**
Box, Control, **93**
Bracket Assy, Latch, **94**
Bracket, Alternator, **52 , 53 , 54**
Bracket, Bulkhead (Unhoused), **81**
Bracket, Drip Pan, **81**
Bracket, Fuel Filter – MDKUB (Begin Spec C), **58**
Bracket, Fuel Filter – MDKWB (Begin Spec C), **59**
Bracket, Fuel Pump – MDKUB (Begin Spec C), **58**
Bracket, Fuel Pump – MDKUB (Spec A,B), **57**
Bracket, Fuel Pump – MDKWB (Begin Spec C), **59**
Bracket, Heat Exchanger, **65**
Bracket, Isolated Ground Solenoid, **67**
Bracket, Latch, **94**
Bracket, Lifting, **19**
Bracket, Muffler, **70**
Bracket, Pin (Housed), **81**
Bracket, Remote Fuel/Water Separator Mounting, **61**
Bracket, Rocker Arm, **33 , 34**
Bracket, Stop Solenoid, **56**
Breaker, Circuit, **93**
Brush, Generator, **91**
Bulkhead (Begin Spec C), **78**

Bulkhead (Spec A–B), **77**
Bush, Piston Pin, **14 , 15**
Bushing, Connecting Rod, **13 , 16**
Bushing, Crankshaft, **13 , 16**
Bushing, Drip Pan Spacer, **80**
Bushing, Fuel System, **57**
Bushing, Fuel System Reducer, **58**
Bushing, Idle Gear, **17**
Bushing, Oil Pressure Sender Reducer, **45 , 49**
Bushing, Wrist Pin, **13**

C

Cable Assy, Battery, **77 , 79**
Camshaft, **17 , 18**
Camshaft Assy, Fuel, **26 , 27**
Cap, Coolant Recovery Tank, **66**
Cap, Cylinder Block, **9**
Cap, Cylinder Block Sealing, **8 , 10**
Cap, Cylinder Head Sealing, **30**
Cap, Exhaust Manifold Filler, **73**
Cap, Oil Fill, **42 , 49**
Cap, Speed Control, **22 , 23**
Cap, Valve, **33**
Case, Governor Ball, **26 , 27**
Case, Main Bearing, **20 , 21**
Circlip, Fuel Camshaft, **26 , 27**
Circlip, Governor Sleeve, **26 , 27**
Circlip, Piston Pin, **14 , 15**
Clamp, Hose, **43**
Clip, Fan Guard Push-On, **91**
Cock, Cylinder Block Drain, **8**
Cock, Heat Exchanger Drain, **65**
Cock, Oil Drain, **10**
Collar, Crankshaft, **13 , 14 , 15 , 16**
Collar, Speed Control, **22 , 23**
Collet, Valve Spring, **33**
Comp. Valve Breather, **43**
Components, Alternator, **55**
Components, Captive Water Pump, **50 , 51**
Components, Injection Pump, **29**
Components, Nozzle Holder, **36**
Components, Remote Water Separator, **62**
Connector, Bulkhead, **77 , 79**
Connector, Fuel System, **57 , 58 , 59**
Connector, Water Pump Hose, **65**
Control, Speed, **22 , 23**
Cord, Glow Plug, **35 , 37 , 38 , 39**
Coupler, Alternator Connector, **53 , 54**
Coupling, Bulkhead, **77 , 79**
Coupling, Fuel System, **57 , 58**
Cover, **49**
Cover Assy, Bearing Case, **20**
Cover, Bearing Case, **21**
Cover, Bearing Plate, **20**
Cover, Breather, **43**
Cover, Breather Element, **42**

Index

Cover, Control, **93**
Cover, Cylinder Block Hole, **9**
Cover, Cylinder Head, **42 , 43**
Cover, Cylinder Head (Begin Spec C), **43 , 44**
Cover, Dipstick Kit Access, **106**
Cover, Endbell, **91**
Cover, Fuel Camshaft, **8 , 9 , 10**
Cover, Sea Water Pump End, **65**
Cover, Thermostat, **40 , 41**
Cover, Valve, **42**
Crankshaft, **13 , 14 , 15 , 16**
Cushion, Drip Pan Vibration, **80**

D

Diode, Remote Panel (Spec A-B), **99**
Dipstick, Oil, **68 , 69**
Disc, Generator Drive, **91**
Drain Assy, Remote Water Separator, **62**

E

Elbow, Breather, **42**
Elbow, Bulkhead, **77 , 79**
Elbow, Fuel System, **57 , 58 , 59**
Elbow, Oil Pressure, **8**
Elbow, Oil Pressure Sender, **45 , 49**
Elbow, Street, **61**
Elbow, Vacuum Relief Valve, **63**
Elbow, Water Pump, **65**
Element, Breather, **42**
Element, Fuel Filter, **58 , 59**
Element, Remote Water Separator, **62**
Endbell, **91**
Engine, Replacement, **9 , 10**
Exchanger, Heat, **65**
Eye, Lifting, **30**

F

Fan, Generator, **91**
Filter, Fuel – MDKUB (Begin Spec C), **58**
Filter, Fuel – MDKWB (Begin Spec C), **59**
Filter, Oil, **49**
Flange, Injection Pump Sleeve, **29**
Flange, Oil Filler, **46**
Flange, Oil Filter, **49**
Flange, Water Outlet, **40 , 41**
Flange, Water Pump, **40 , 41 , 50 , 51**
Flywheel, **19**
Fuse, **96**

G

Gasket, Bearing Case, **21**

Gasket, Bearing Plate Cover, **20**
Gasket, Case Cover, **21**
Gasket, Cover, **46 , 49**
Gasket, Cylinder Block Hole Cover, **9**
Gasket, Cylinder Head, **30**
Gasket, Delivery Valve, **29**
Gasket, Exhaust Elbow, **73**
Gasket, Exhaust Manifold, **73**
Gasket, Fuel Pump, **26**
Gasket, Gearcase, **45 , 46 , 49**
Gasket, Injection Pump, **29**
Gasket, Injector Nozzle, **35 , 37 , 38 , 39**
Gasket, Intake Manifold, **71 , 72**
Gasket, Oil Filter Flange, **49**
Gasket, Oil Pan, **68**
Gasket, Oil Pump, **8 , 9 , 10**
Gasket, Rocker Cover, **43**
Gasket, Sea Water Pump, **65**
Gasket, Speed Control, **22 , 23**
Gasket, Thermostat, **40 , 41**
Gasket, Valve Cover, **42**
Gasket, Water Flange, **40 , 41**
Gasket, Water Pump, **50 , 51 , 65**
Gauge, Coolant Temperature (Spec A-B), **100**
Gauge, Oil Pressure (Begin Spec C), **104**
Gauge, Oil Pressure (Spec A-B), **100**
Gauge, Water Temperature (Begin Spec C), **104**
Gear, Camshaft, **17**
Gear, Crankshaft, **13 , 14 , 16**
Gear, Idle, **17**
Gear, Injection Pump, **26 , 27**
Gear, Oil Pump Drive, **8 , 9 , 10**
Gear, Ring, **19**
Gearcase, **45 , 46 , 49**
Gearcase MDKUB, **45 , 46**
Generator, **91**
Governor, **24 , 25**
Grommet, Control Box, **93**
Grommet, Engine Harness, **96**
Grommet, Generator Stator, **91**
Grommet, Heat Exchanger, **65**
Grommet, Saddle, **94**
Grommet, Vacuum Relief Valve, **63**
Ground, Isolated, **67**
Guard, Belt, **82**
Guard, Generator Fan, **91**
Guide, Valve, **30**

H

Hanger, Coolant Recovery Tank, **66**
Harness Location, Engine, **95**
Harness Location, Extension (Or Pigtail), **95**
Harness Location, Remote Panel, **95**
Harness, Adapter, **105**
Harness, Basic Remote Panel (Begin Spec C), **101**

Index

Harness, Basic Remote Panel (Spec A–B), **98**
Harness, Customer Interface Pigtail, **97**
Harness, Deluxe Remote Panel (Begin Spec C), **102 , 103**
Harness, Deluxe Remote Panel (Spec A–B), **99**
Harness, Engine, **96**
Harness, Extension, **97**
Harness, Isolated Ground, **67**
Harness, Panel, **93**
Harness, Pigtail, **97**
Harness, Remote Extension, **93**
Harness, Remote Gauge Panel (Begin Spec C), **104**
Harness, Remote Gauge Panel (Spec A–B), **100**
Harness, Remote Plug, **57 , 58 , 59**
Head Assy, Water Separator Replacement, **62**
Head, Cylinder, **30**
Holder Assy, Nozzle, **36**
Holder, Delivery Valve, **29**
Holder, Fork Lever, **24**
Holder, Fuse, **96**
Holder, Main Bearing, **20**
Holder, Nozzle, **35 , 37 , 38 , 39**
Hose, Breather, **42**
Hose, Coolant, **77 , 79**
Hose, Cooling, **65 , 73**
Hose, Exhaust, **73**
Hose, Muffler Intake, **70**
Hose, Oil Drain, **68**
Hose, Wet Exhaust , **73**
Housing (Begin Spec B), **89**
Housing (Spec A), **85 , 87**
Housing, Flywheel, **19**
Hub, Rotor, **91**

I

Idle Assy, **22**
Impellar, Sea Water Pump, **65**
Impeller, Raw Water Pump, **65**
Impeller, Water Pump, **50 , 51**
Indicator, Dipstick Kit Oil Level, **106**
Insulator, Bulkhead Terminal, **77**

J

Joint, Ball, **56**

K

Keeper, Latch, **94**
Key, Crankshaft Feather, **13 , 14 , 15 , 16**
Key, Cylinder Block Feather, **8 , 10**
Key, Feather – Camshaft, **17 , 18**
Key, Fuel Camshaft Feather, **26 , 27**
Key, Oil Pump Feather, **9**
Kit Holder, Nozzle, **37 , 39**
Kit, Basic Remote Control Panel (Spec A–B), **98**

Kit, Coolant Recovery, **66**
Kit, Deluxe Remote Control Panel (Spec A–B), **99**
Kit, Dipstick, **106**
Kit, Enhancement, **106**
Kit, Gasket, **106**
Kit, Housing, **106**
Kit, Isolated Ground, **67**
Kit, Muffler, **74**
Kit, Muffler, Fuel/Water Separator, **60**
Kit, Remote Control Meter Panel (Spec A–B), **100**
Kit, Remote Fuel/Water Separator, **61**
Kit, Remote Gauge Panel, **104**
Kit, Remote Panel (Begin Spec C), **103**
Kit, Remote Panel Modification, **49**
Kit, Remote Water Separator Metal Bowl Replacement, **62**
Kit, Resonator, **74**
Kit, Sender, **40 , 41**
Kit, Siphon Break, **63**
Kit, Water Pump Repair, **65**
Kit, Water Separator, **60**

L

Labels, **106**
Lever Assy, Fork, **24 , 25**
Lever, Engine Stop, **22**
Lever, Governor, **22 , 23**
Lever, Speed Control, **22**
Line, Bulkhead Fuel, **77 , 79**
Line, Fuel, **57 , 58 , 59**
Link, Stop Solenoid, **56**
Location, Harness, **95**

M

Manifold Assy, **73**
Manifold, Exhaust, **73**
Manifold, Intake, **71 , 72**
Meter, Battery Condition (Spec A–B), **99**
Meter, Control Box Time Totalizing, **93**
Meter, Hour (Begin Spec C), **102**
Meter, Running Time (Begin Spec C)1, **104**
Meter, Time Totalizing (Spec A–B), **99 , 100**
Meter, Volt (Begin Spec C), **103 , 104**
Meter, Voltage (Spec A–B), **100**
Mount, Control, **94**
Muffler, **60 , 74**
Muffler, Air Intake, **70**

N

Neck, Exhaust Manifold Filler, **73**
Nipple, Fuel System Close, **57 , 58**
Nipple, Oil Drain, **68**
Nozzle, Injection, **36**

Index

O

O'Ring, **43**
O'Ring Kit, Water Separator, **62**
O'Ring, Cap Nut, **42**
O'Ring, Crankshaft, **14**
O'Ring, Crankshaft Oil Slinger, **13**
O'Ring, Cylinder Block, **8 , 9 , 10**
O'Ring, Cylinder Head, **30**
O'Ring, Dipstick Kit, **106**
O'Ring, Endbell, **91 , 91**
O'Ring, Gearcase, **49**
O'Ring, Injection Pump, **29**
O'Ring, Oil Fill, **49**
O'Ring, Oil Pickup Tube, **68 , 69**
O'Ring, Oil Slinger, **16**
O'Ring, Speed Control, **22 , 23**

P

Pan, Drip, **80**
Panel, AC Control, **93**
Panel, Basic Remote Control (Begin Spec C), **101**
Panel, Basic Remote Control (Spec A-B), **98**
Panel, DC Control, **93**
Panel, Deluxe Remote Control (Begin Spec C), **102 , 103**
Panel, Remote (Begin Spec C), **102 , 103 , 104**
Panel, Remote (Spec A-B), **99**
Panel, Remote Gauge Control, **104**
Panel, Remote Gauge Control (Spec A, B), **100**
Panel, Start/Stop, **93**
Pin, Cylinder Block Hollow, **10**
Pin, Cylinder Block Pipe, **9**
Pin, Cylinder Block Straight, **9 , 10**
Pin, Gearcase Spring, **49**
Pin, Governor Spring, **24 , 25**
Pin, Hollow, **8**
Pin, Injection Pump, **29**
Pin, Injection Pump Joint, **29**
Pin, Piston, **14 , 15 , 16**
Pin, Speed Control Spring, **22**
Pin, Spring, **34**
Pin, Start Spring, **46**
Pin, Straight, **8**
Pin, Wrist, **13**
Pipe Assy, Injection, **35 , 37 , 39**
Pipe, Overflow, **35 , 38 , 39**
Pipe, Water Pump Return, **50**
Pipe, Water Return, **40 , 41 , 43**
Piston, **13 , 14 , 15 , 16**
Plate Assy, Speed, **22 , 23**
Plate, Alternator Back, **55**
Plate, Breather Element, **42**
Plate, Bulkhead (Unhoused Units), **81**
Plate, Bulkhead Insulating, **77**
Plate, Control Cover, **93**
Plate, Cover, **26**

Plate, Fuel Camshaft Retaining, **26 , 27**
Plate, Injection Pump, **29**
Plate, Retaining, **17**
Plate, Sea Water Pump Wear, **65**
Plate, Speed Control, **22**
Plug, Cylinder Block, **9 , 10**
Plug, Cylinder Head, **8**
Plug, Cylinder Head Pipe, **30**
Plug, Fuel Filter Drain, **58 , 59**
Plug, Gearcase Pipe, **45 , 46 , 49**
Plug, Glow, **35 , 37 , 38 , 39**
Plug, Heat Exchanger Square, **65**
Plug, Oil Drain, **68**
Plug, Oil Filler, **43 , 46**
Plug, Toggle Switch Hole, **93**
Plug, Voltage Regulator Mating, **93**
Plunger, Injection Pump, **29**
Potentiometer, **93**
Pulley, Alternator, **55**
Pulley, Drive, **53 , 54**
Pump Assy, Water Separator, **62**
Pump, Fuel (MDKUB), **58**
Pump, Fuel (MDKWB), **59**
Pump, Fuel – MDKUB, **57**
Pump, Fuel – MDKUB (Begin Spec C), **58**
Pump, Fuel – MDKUB (Spec A,B), **57**
Pump, Fuel – MDKWB (Begin Spec C), **59**
Pump, Injection, **26 , 27 , 29**
Pump, Oil, **8**
Pump, Sea Water, **65**
Pump, Water, **50 , 51**

R

Rack, Injection Pump Control, **29**
Rectifier, **93**
Rectifier, Isolated Ground Silicon, **67**
Regulator, Voltage, **93**
Relay, 24VDC SPDT, **93**
Relay, Isolated Ground Solenoid, **67**
Relay, Start Disconnect, **93**
Relay, Start Solenoid, **93**
Relay, Start Solenoid (Negative Ground), **94**
Resonator, **74**
Retainer, Valve Spring, **33**
Ring, Collector, **91**
Ring, Crankshaft Retaining, **13**
Ring, Generator Drive Disk Clamp, **91**
Ring, Piston, **14 , 15**
Ring, Piston Pin Retaining, **16**
Ring, Retaining – Camshaft, **17**
Ring, Sea Water Pump Retaining, **65**
Ring, Snap, **18**
Rocker Arm, **34**
Rod, Connecting, **13 , 14 , 15 , 16**
Rod, Push, **17 , 18**
Rod, Push – Injection Nozzle, **36**

Index

Rotor Assy, **55**
Rotor, Alternator, **55**
Rotor, Generator, **91**

S

Saddle, Control, **94**
Seal, Bearing Plate Cover Oil, **20 , 21**
Seal, Gearcase Oil , **49**
Seal, Heat, **37 , 39**
Seal, Nozzle Holder Heat, **35**
Seal, Oil, **46 , 68**
Seal, Oil Fill Cap, **42**
Seal, Sea Water Pump Lip, **65**
Seal, Speed Control Oil, **22**
Seal, Valve Stem, **33 , 34**
Seal, Water Pump, **50 , 51 , 65**
Seat, Injection Pump Spring, **29**
Seat, Valve, **45 , 46 , 49**
Sender, Oil Pressure, **45 , 49**
Sender, Water Temperature, **40 , 41**
Separator, Fuel/Water, **60**
Separator, Remote Fuel/Water, **61**
Separator, Water, **60**
Set, Bearing, **13**
Set, Crankshaft Bearing, **16**
Set, Piston Ring, **13 , 16**
Shaft, Gear – Idle, **17 , 18**
Shaft, Governor, **24 , 25**
Shaft, Lever, **22 , 23**
Shaft, Rocker Arm, **33 , 34**
Shaft, Rotor, **55**
Shield, Breather, **43**
Shield, Breather Oil, **42 , 44**
Shim, Generator, **91**
Shim, Injection Pump, **26 , 29**
Silencer, Air, **70**
Sleeve, Crankshaft, **13 , 14 , 16**
Sleeve, Governor, **26 , 27**
Sleeve, Injection Pump Control, **29**
Slinger, Oil, **13 , 14 , 15 , 16**
Snubber, Drip Pan, **80**
Socket, Relay, **93**
Solenoid, Stop, **56**
Spacer, Alternator Rotor Spacer, **55**
Spacer, Dipstick Kit Oil Indicator, **106**
Spacer, Drive Disc, **91**
Spacer, Generator Fan, **91**
Spacer, Idle Gear, **17**
Spring, Delivery Valve, **29**
Spring, Generator Brush, **91**
Spring, Governor, **24 , 25**

Spring, Governor Start, **24 , 25**
Spring, Injection Nozzle, **36**
Spring, Injection Pump Plunger, **29**
Spring, Rocker Arm, **33 , 34**
Spring, Rocker Arm Thrust, **33**
Spring, Valve, **33 , 34**
Spring, Valve Seat, **45 , 49**
Standoff, Control Insulating, **93**
Starter (Mounting), **19**
Stator, Alternator, **55**
Stator, Generator, **91**
Stopper, Speed Control, **22**
Strainer, Slotted, **74**
Strainer, Water Pickup, **60**
Strap, Ground, **80**
Strap, Heat Exchanger, **65**
Switch, High Exhaust Temperature, **73**
Switch, Manual Transfer (On/Off Shore), **61**
Switch, Oil Pressure, **8 , 9 , 10**
Switch, Rocker (Begin Spec C), **101 , 102 , 103 , 104**
Switch, Rocker (Spec A–B), **98 , 99 , 100**
Switch, Toggle, **93**
System, Exhaust, **73**

T

Tank, Coolant Recovery, **66**
Tappet, **17 , 18 , 29**
Tee, Fuel System, **57 , 58 , 59**
Tee, Vacuum Relief Valve, **63**
Thermostat, High Engine Temperature, **40 , 41**
Thermostat, Water Pump, **40 , 41**
Tube, Breather, **43**
Tube, Cooling, **65**
Tube, Dipstick Kit , **106**
Tube, Exhaust, **73**
Tube, Oil Pickup, **68 , 69**

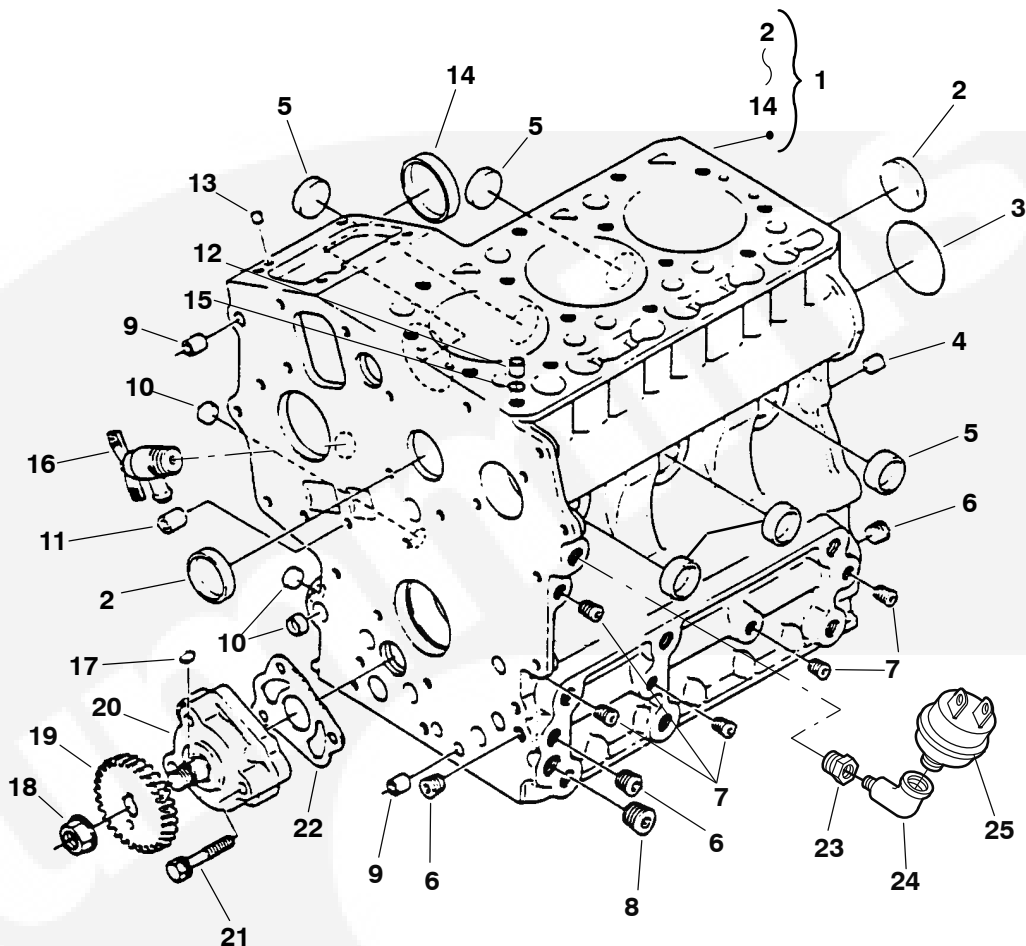
V

Valve, Delivery, **29**
Valve, Exhaust, **33 , 34**
Valve, Intake, **33 , 34**
Valve, Oil Drain Shutoff , **68**
Valve, Vacuum Relief, **63**

W

Wire, Retainer, **29**
Wrapper, Control, **93**

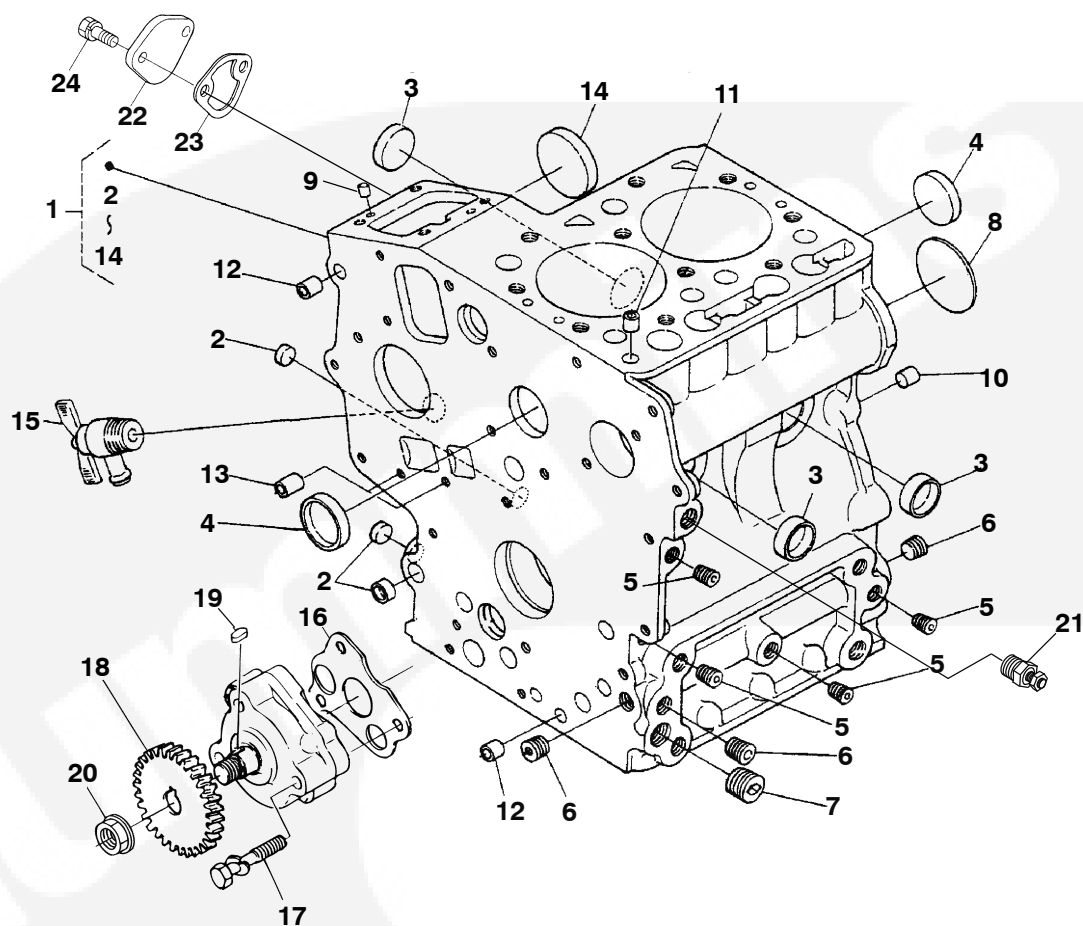
Cylinder Block Spec A



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Block Assy, Cylinder (Includes Parts Marked *)	12	185-2094	1	*Pin, Hollow
	185-5481	1	MDKUB (2 Cylinder)	13	185-5486	2	*Pin, Straight
	185-6704	1	MDKWB (3 Cylinder)	14	185-5489	1	*Cover, Fuel Camshaft
2	185-5484	2	*Cap, Sealing	15	185-2095	1	O'Ring
3	185-5485	1	*Plug	16	185-5490	1	Cock, Drain
4	185-5487	2	*Pin, Straight	17	185-5415	1	Key, Feather
5			*Cap, Sealing	18	185-5416	1	Nut, Hex Flange
	185-5483	3	MDKUB	19	185-5414	1	Gear, Oil Pump Drive
	185-5483	5	MDKWB	20	185-5412	1	Pump, Oil
6	185-2233	3	*Plug, Pipe	21	185-5491	3	Screw, Hex Head Cap
7			*Plug, Pipe	22	185-5413	1	Gasket, Oil Pump
	185-2188	4	MDKUB	23	502-0917	1	Adapter, Pipe
	185-2188	5	MDKWB	24	502-0053	1	Elbow, 45° Street
8	185-2234	1	*Plug, Pipe	25	309-0578	1	Switch, Oil Pressure (S15)
9	185-2115	2	*Pin, Hollow				
10	185-5482	3	*Cap, Sealing				
11	185-5488	2	*Pin, Hollow				

* - Parts Included in Cylinder Block Assy.

Cylinder Block Begin MDKUB Spec G

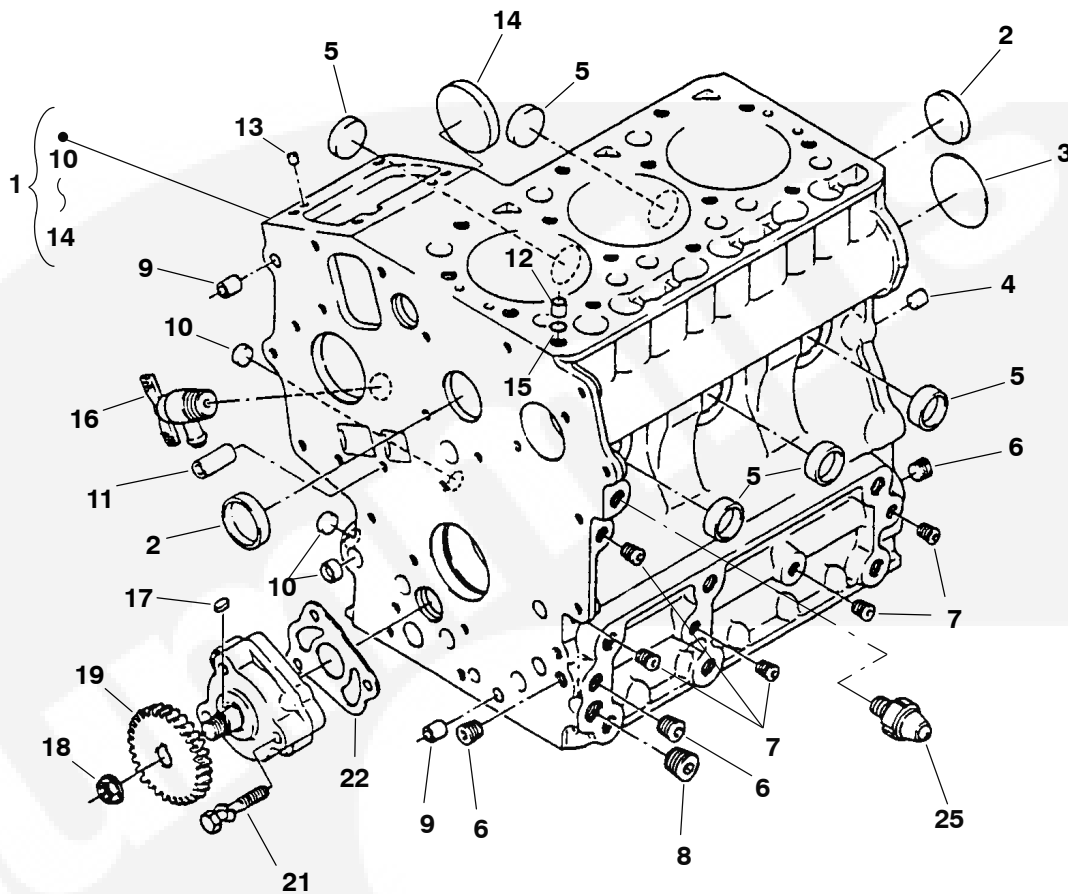


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	100-4105		Engine, Replacement	15	185-5490	1	O'Ring
1	110-4112		Block Assy, Cylinder (Includes Parts Marked *)	16	185-5413	1	Gasket, Oil Pump
2	185-5482	3	*Cap, Sealing	17	185-5491	3	Bolt
3	185-5483	3	*Cap, Sealing	18	185-5414	1	Gear, Oil Pump Drive
4	185-5484	2	*Cap, Sealing	19	185-5415	1	Key, Feather
5	185-2188	4	*Plug	20	185-5416	1	Nut, Flange
6	185-2233	3	*Plug	21	185-5492	1	Switch, Oil Pressure
7	185-2234	1	*Plug	22	185-5798	1	Cover
8	185-5485	1	*Plug, Expansion	23	185-6580	1	Gasket, Hole Cover
9	185-5486	2	*Pin, Straight	24	185-2388	2	Bolt
10	185-5487	2	*Pin, Straight				
11	185-2094	1	*Pin, Pipe				
12	185-2115	2	*Pin, Pipe				
13	185-5488	2	*Pin, Pipe				
14	185-5489	1	*Cover, Fuel Camshaft				

* - Parts Included in Cylinder Block Assy.

+ - Parts Included in Isolated Ground Kit Listed on Relay Page.

Cylinder Block Begin MDKWB Spec G



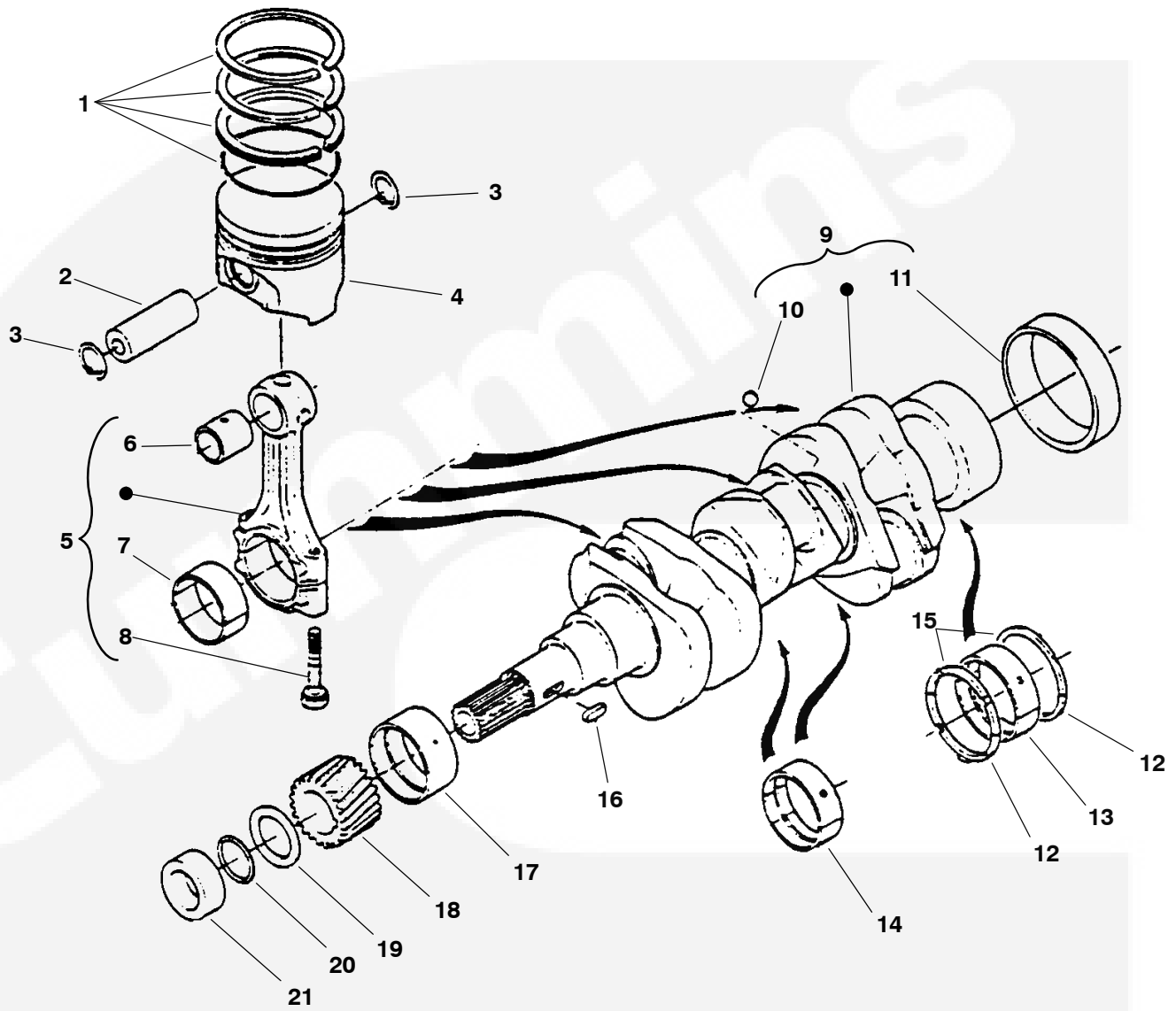
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	100-3943	1	Engine, Replacement	13	185-5488	2	*Pin, Hollow
1	181-9153	1	Block Assy, Cylinder (Includes Parts Marked *)	14	185-5489	1	*Cover, Fuel Camshaft
2	185-5482	3	*Cap, Sealing	15	185-2095	1	*O'Ring
3	185-5483	5	*Cap, Sealing	16	185-5490	1	*Cock, Drain
4	185-5484	2	*Cap, Sealing	17	185-5492	1	Switch, Oil Pressure (S15)
5	185-2412	5	*Plug, Pipe	18	185-5413	1	*Gasket, Oil Pump
6	185-2233	3	*Plug, Pipe	19	185-5491	3	*Screw, Hex Head Cap
7	185-2234	1	*Plug, Pipe	20	185-5416	1	*Nut, Flange Hex
8	185-5485	1	*Plug	21	185-5414	1	*Gear, Oil Pump Drive
9	185-5486	2	*Pin, Straight	22	185-5415	1	*Key, Feather
10	185-5487	2	*Pin, Straight				
11	185-2094	1	*Pin, Hollow				
12	185-2115	2	*Pin, Hollow				

* - Parts Included in Cylinder Block Assy.

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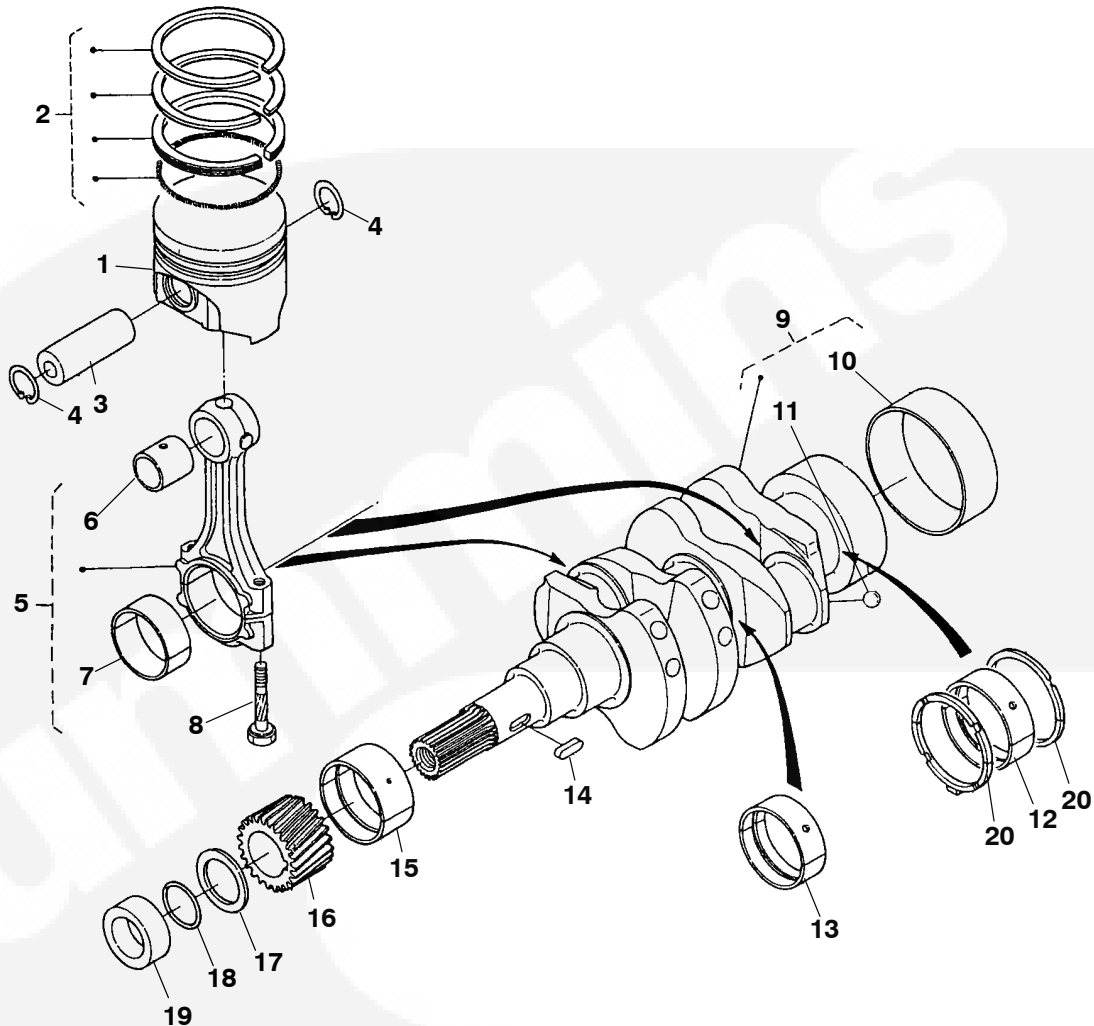
Crankshaft Spec A



Crankshaft Spec A

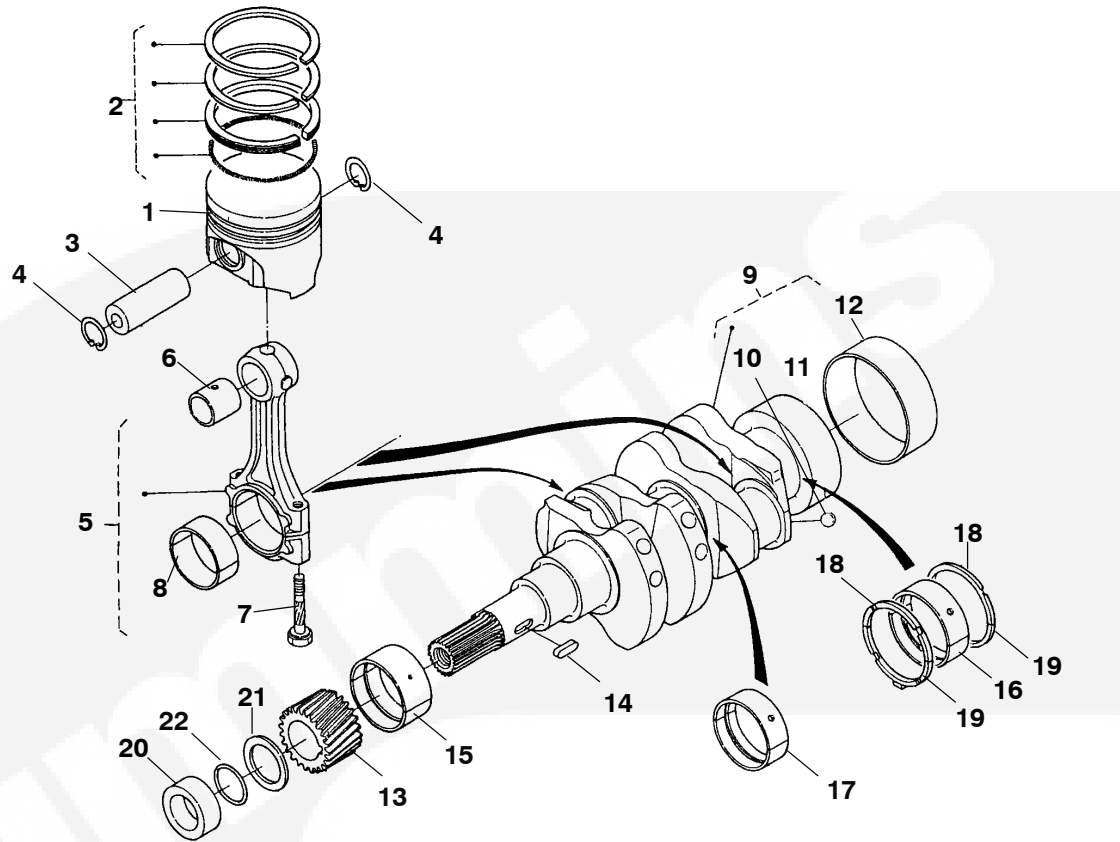
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Set, Piston Ring Spec A-C	8			Bolt, Connecting Rod
			MDKUB	185-5570	4		MDKUB
185-7076	2		Standard	185-5570	6		MDKWB
185-7386	2		.25 mm	9			Crankshaft (Includes Ball and Sleeve)
			MDKWB	185-5574	1		MDKUB
185-5567	3		Standard	185-6705	1		MDKWB
185-5351	3		.25 mm	10			Ball
			Begin Spec D	185-5575	2		MDKUB
			MDKUB	185-5575	3		MDKWB
185-7076	2		Standard	11	185-2033	1	Sleeve
185-7386	2		.25 mm	12			Bearing, Thrust
			MDKWB	185-2023	2		Standard
185-7076	3		Standard	185-2030	2		+ 0.2 mm
185-7386	3		.25 mm	185-2031	2		+ 0.4 mm
2			Pin, Wrist	13			Set, Bearing
185-5568	2		MDKUB	185-5581	1		Standard
185-5568	3		MDKWB	185-5360	1		- 0.2 mm
3			Ring, Retaining	185-5361	1		- 0.4 mm
185-2016	4		MDKUB	14			Set, Bearing
185-2016	6		MDKWB				MDKUB
4			Piston	185-5580	1		Standard
			MDKUB	185-2026	1		- 0.2 mm
185-5566	2		Standard	185-5357	1		- 0.4 mm
185-5350	2		.25 mm				MDKWB
			MDKWB	185-5580	2		Standard
185-5566	3		Standard	185-5356	2		- 0.2 mm
185-5350	3		.25 mm	185-5357	2		- 0.4 mm
5			Rod Assy, Connecting (Includes Bushings and Bolt)	15			Bearing, Thrust
185-5569	2		MDKUB	185-2022	2		Standard
185-5569	3		MDKWB	185-2028	2		+ 0.2 mm
6			Bushing, Wrist Pin	185-2029	2		+ 0.4 mm
185-5358	2		MDKUB	16	185-2353	1	Key, Feather
185-5358	3		MDKWB	17			Bushing, Crankshaft
7			Bushing, Connecting Rod	185-5577	1		Standard
			MDKUB	185-5578	1		- 0.2 mm
185-5571	2		Standard	185-5579	1		- 0.4 mm
185-5572	2		- 0.2 mm	18	185-5576	1	Gear, Crankshaft
185-5573	2		- 0.4 mm	19	185-5583	1	Slinger, Oil
			MDKWB	20	185-5584	1	O'Ring
185-5571	3		Standard	21	185-5582	1	Collar
185-5572	3		- 0.2 mm				
185-5573	3		- 0.4 mm				

Piston and Crankshaft MDKUB (Spec G)



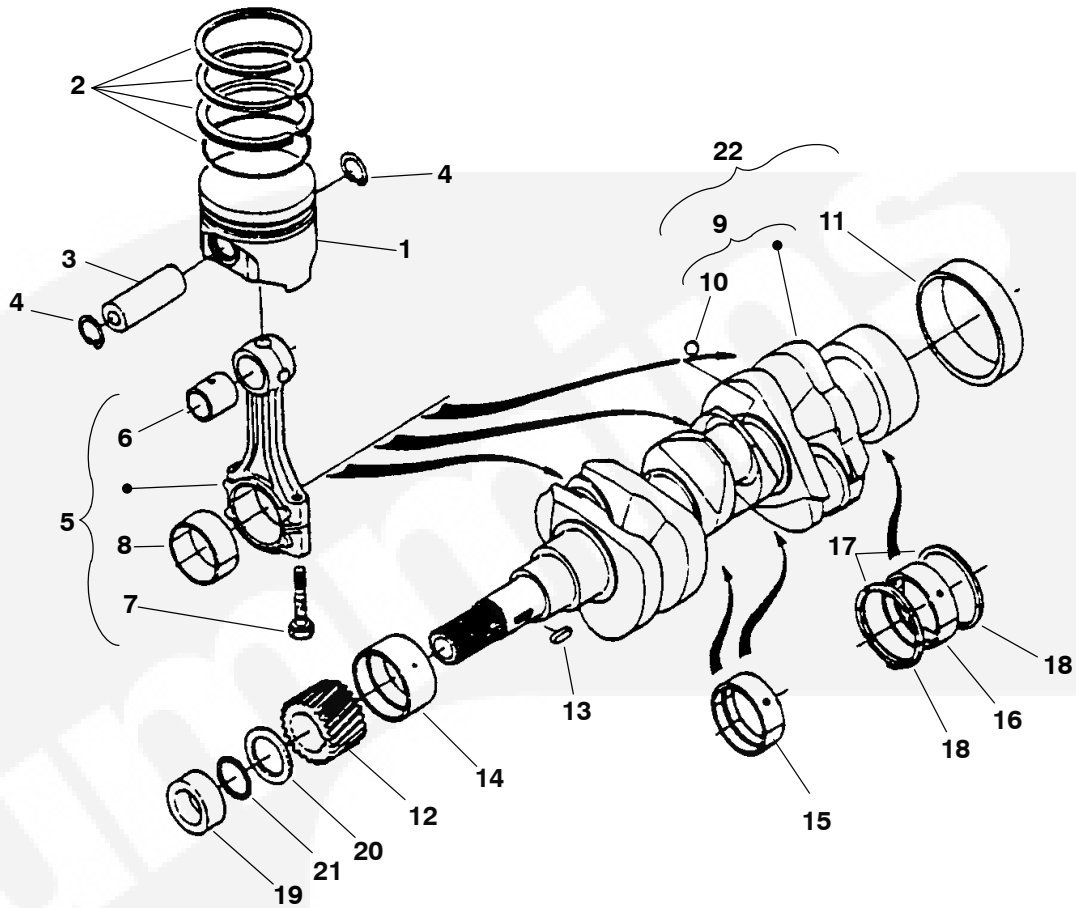
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5566	2	Piston	12	185-5580	1	Bearing
	185-5350	2	Standard		185-2026	1	Standard
2	185-7076	2	Ring Assy, Piston		185-5357	1	-0.20mm
	185-7386	2	Standard			1	-0.40mm
3	185-5568	2	Pin, Piston	13	185-5581	1	Bearing
4	185-2016	4	Circlip, Piston Pin		185-5360	1	Standard
5	181-9162	2	Rod Assy, Connecting (Includes Bush, Bolt, and Bearing)		185-5361	1	-0.20mm
6	185-5358	2	Bush, Piston Pin		185-2353	1	-0.40mm
7	185-5571	2	Bearing	14	185-2353	1	Key, Feather
	185-5572	2	Standard	15	185-5577	1	Bearing
	185-5573	2	-0.20mm		185-5578	1	Standard
8	185-5570	4	Bolt, Connecting Rod		185-5579	1	-0.20mm
9	181-9163	1	Crankshaft Assy (Includes Sleeve, Crankshaft and Ball)			1	-0.40mm
10	185-2033	1	Sleeve	16	185-5576	1	Gear
11	185-5575	2	Ball	17	185-5583	1	Slinger, Oil
				18	184-0021	1	O'Ring
				19	185-5582	1	Collar, Crankshaft
				20	185-2030	2	Ring Assy, Piston
					185-2031	2	+0.020mm
						2	+0.040mm

Piston and Crankshaft MDKUB (Begin Spec H)



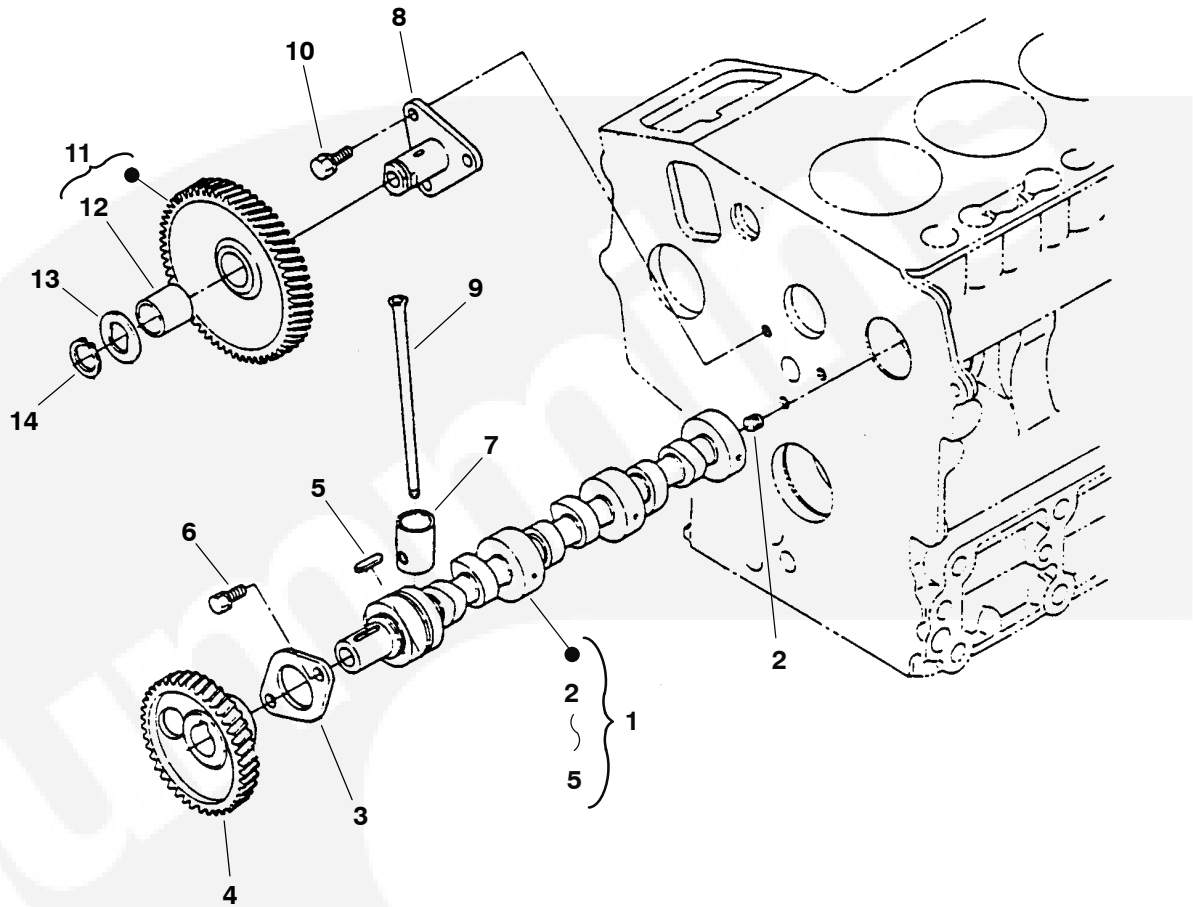
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Piston	15			Bearing
	112-0332	2	Standard		185-5577	1	Standard
	185-5350	2	+0.25mm		185-5578	1	-0.20mm
2			Ring Assy, Piston		185-5579	1	-0.40mm
	185-7386	2	+0.25mm	16			Bearing
3	185-5568	2	Pin, Piston		185-5580	1	Standard
4	185-2016	4	Circlip, Piston Pin		185-2026	1	-0.20mm
5	181-9162	2	Rod Assy, Connecting (Includes Bush, Bolt, and Bearing)		185-5357	1	-0.40mm
6	181-9161	4	Bush, Piston Pin	17			Bearing
7	185-5570	4	Bolt, Connecting Rod		185-5581	1	Standard
8			Bearing		185-5360	1	-0.20mm
	185-5571	2	Standard		181-9072	1	-0.40mm
	181-9071	2	-0.20mm	18			Bearing
	185-5573	2	-0.40mm		185-2022	2	Standard
9	104-2099	1	Crankshaft Assy (Includes Sleeve, Crankshaft and Ball)		185-2028	2	-0.20mm
10	181-9163	1	Assy Camshaft		181-9037	2	-0.40mm
11	105-0740	2	Ball	19			Bearing
12	185-2033	1	Sleeve, Camshaft		185-2023	2	Standard
13	185-5576	1	Gear, Crankshaft		185-2030	2	-0.20mm
14	185-5560	1	Key, Feather		185-2031	2	-0.40mm
				20	185-5582	1	Collar, Crankshaft
				21	185-5583	1	Slinger, Oil
				22	185-9020	1	O'Ring

Crankshaft Begin MDKWB Spec G



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Piston	15			Set, Bearing
	185-5566	3	Standard		185-5581	2	Standard
	185-5350	3	+ 0.25 mm		185-5360	2	- 0.20 mm
2			Set, Piston Ring		185-5361	2	- 0.40 mm
	185-7076	3	Standard	16			Set, Bearing
	185-7386	3	+ 0.25 mm		185-5580	2	Standard
3	185-5568	3	Pin, Piston		185-2026	2	- 0.20 mm
4	185-2016	6	Ring, Retaining		185-5357	2	- 0.40 mm
5	181-9162	3	Rod, Connecting (Includes Bushings and Bolt)	17			Bearing, Thrust
6	185-5358	3	Bushing, Connecting Rod		185-2022	2	Standard
7	185-5570	6	Bolt, Connecting Rod		185-2028	2	+ 0.20 mm
8			Bushing, Connecting Rod		185-2029	2	+ 0.40 mm
	185-5571	3	Standard	18			Bearing, Thrust
	185-5572	3	- 0.20 mm		185-2023	2	Standard
	185-5573	3	- 0.40 mm		185-2030	2	+ 0.20 mm
9	185-7415	1	Crankshaft (Includes Ball and Sleeve)		185-2031	2	+ 0.40 mm
10	185-5575	3	Ball	19	185-5582	1	Collar
11	185-2033	1	Sleeve	20	185-5583	1	Slinger, Oil
12	185-5576	1	Gear, Crankshaft	21	184-0021	1	O'Ring
13	185-2353	1	Key, Feather	22	181-9179	1	Assy, Crankshaft
14			Bushing, Crankshaft				
	185-5577	1	Standard				
	185-5578	1	- 0.20 mm				
	185-5579	1	- 0.40 mm				

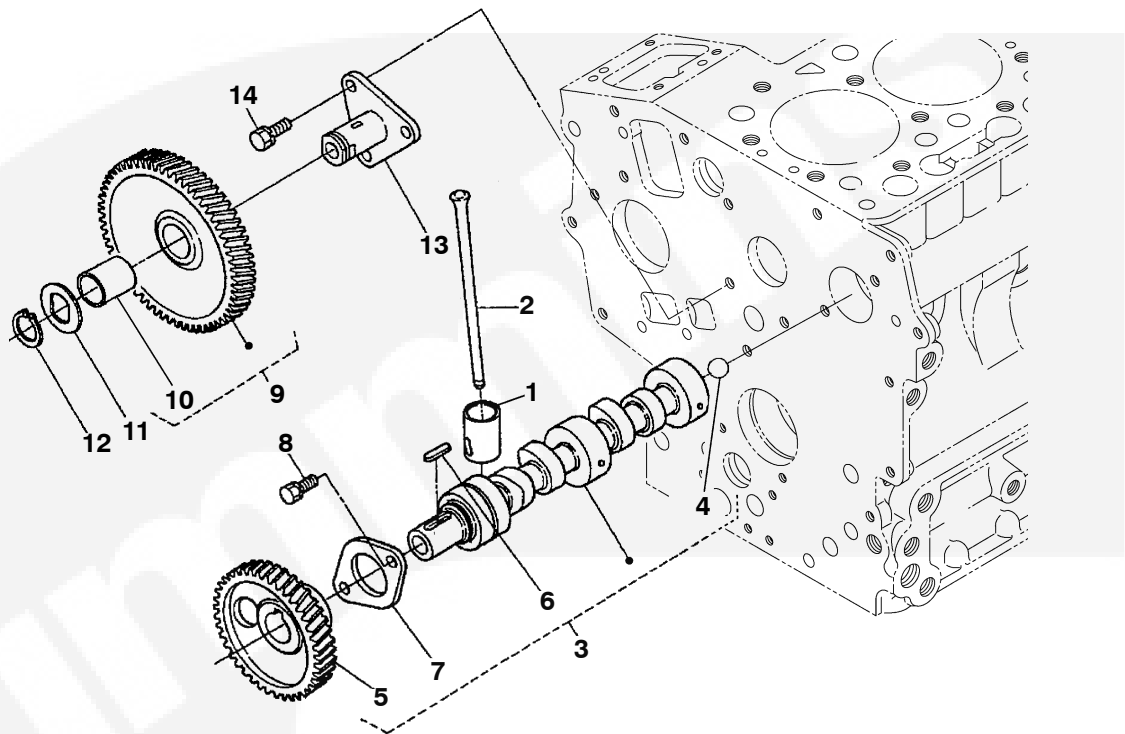
Camshaft MDKUB and MDKWB (Spec A-G)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Camshaft Assy (Includes Parts Marked *)	8	185-5565	1	Shaft, Idle Gear
			Spec A-C	9			Rod, Push
	185-7384	1	MDKUB		185-5555	4	MDKUB
	185-5809	1	MDKWB		185-5555	6	MDKWB
			Begin Spec D	10	185-2387	3	Screw, Hex Head Cap W/ Lock Washer (M6 x 14)
	185-7384	1	MDKUB	11	185-5562	1	Gear, Idle (Includes Bushing)
	185-7074	1	MDKWB	12			Bushing, Idle Gear
2	185-5558	1	*Screw, Set				Spec A-C
3	185-5561	1	*Plate, Retaining		185-5359	1	MDKUB
4			*Gear, Camshaft		185-5810	1	MDKWB
	185-5559	1	Spec A-C		185-7385	1	Begin Spec D
	185-7075	1	Begin Spec D	13	185-5563	1	Spacer
5	185-5560	1	*Key, Feather	14	185-5564	1	Ring, Retaining
6	185-2386	2	Screw, Hex Head Cap W/Lock Washer (M6 x 12mm)				
7			Tappet				
	185-5554	4	MDKUB				
	185-5554	6	MDKWB				

* - Parts Included in Camshaft Assy.

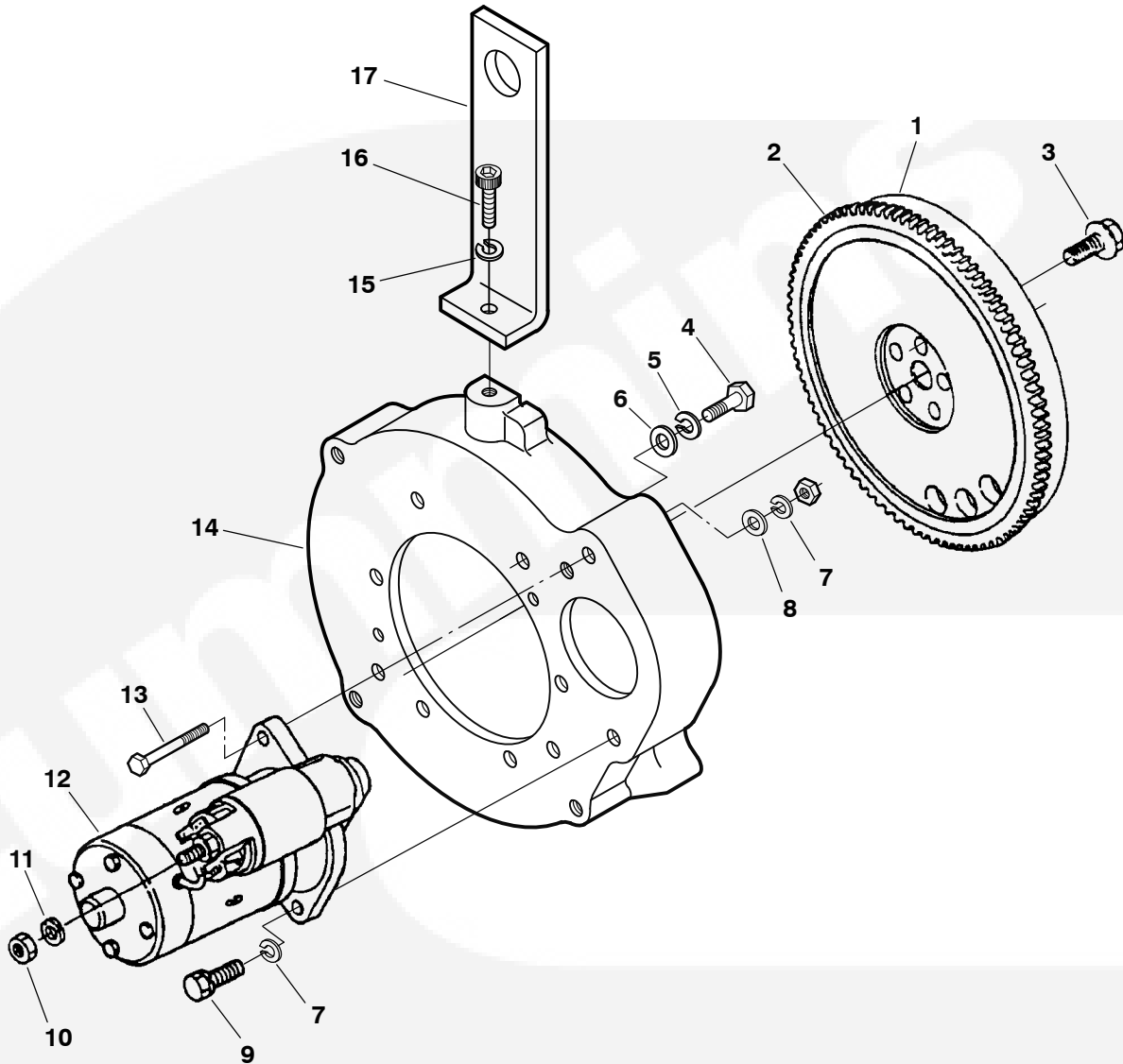
Camshaft MDKUB (Begin Spec H)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	181-9159	4	Tappet	10	185-7385	1	Bushing
2	185-5555	4	Rod, Push	11	185-5563	1	Collar, Idle Gear
3	105-0768	1	Assy Camshaft (Included Parts Marked*)	12	185-5564	1	Ring, Snap
4	185-5924	1	*Ball	13	185-5565	1	Shaft, Idle Gear
5	185-7075	1	*Gear, Cam	14	185-2387	3	Bolt
6	185-5560	1	*Key, Feather				
7	185-5561	1	*Stopper, Cam				
8	185-2386	2	Bolt				
9	181-9076	1	Comp, Gear Idle				

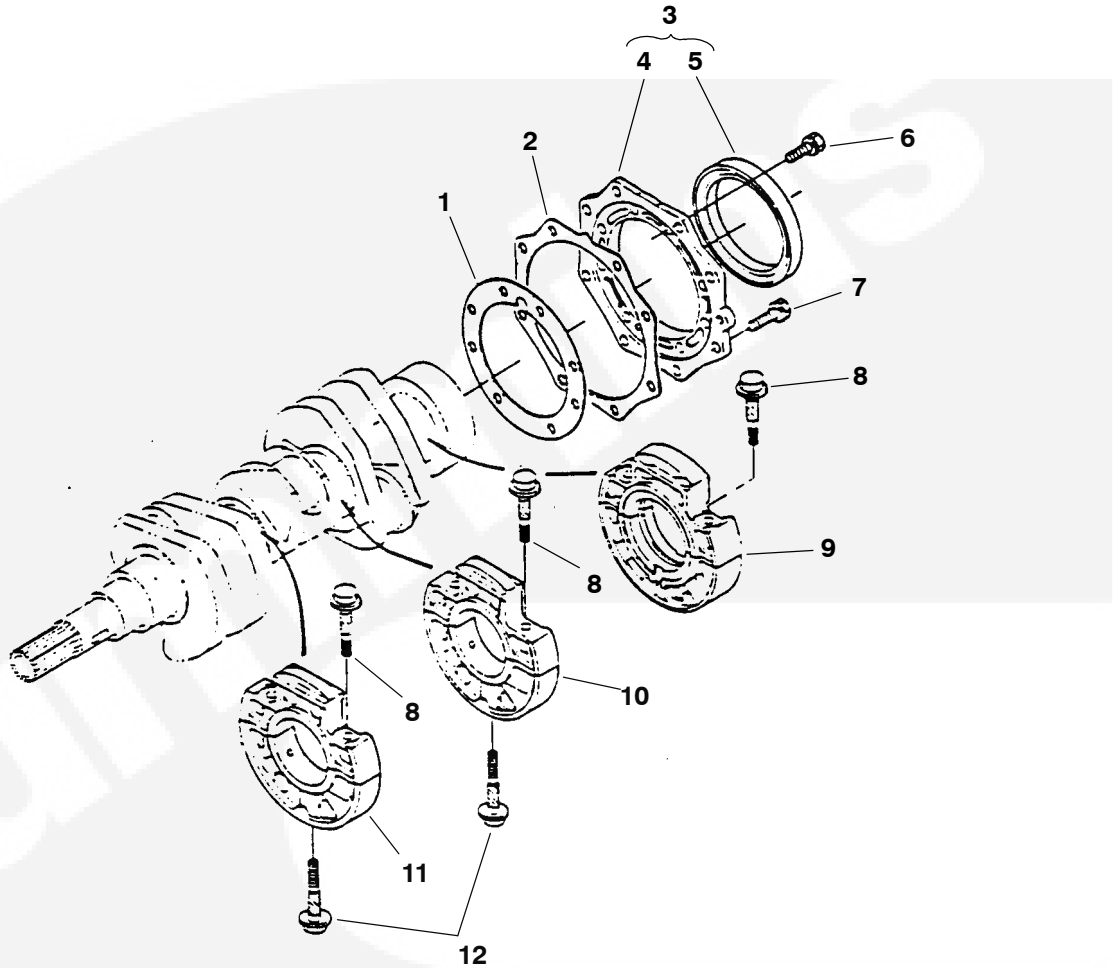
* - Parts Included in Camshaft Assy.

Flywheel



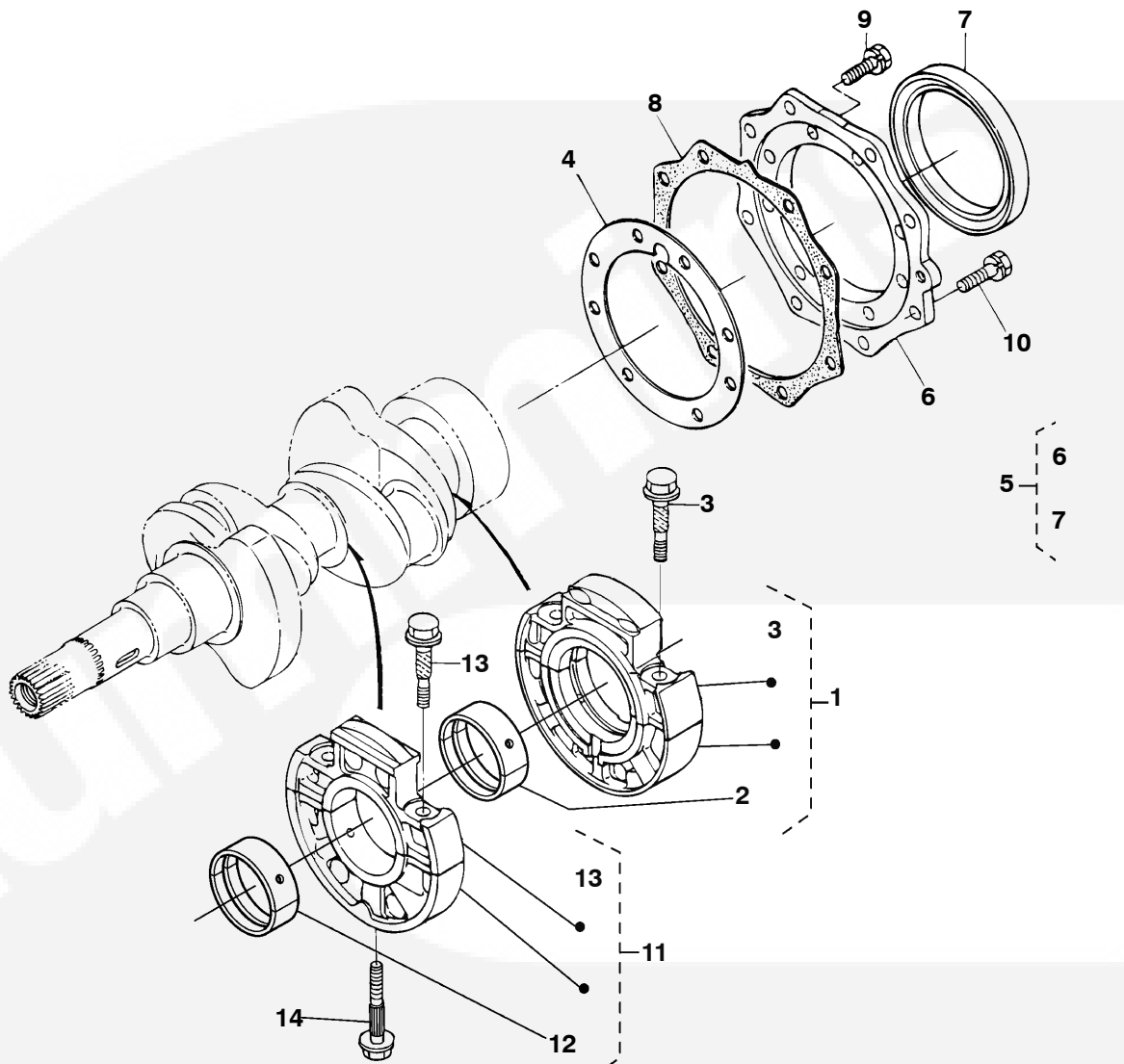
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-1819-01	1	Flywheel (Includes Ring Gear)	11	185-6957	1	Washer, Spring Lock
	104-1819-02	1	MDKUB	12			Starter (B07) (See Separate
2	104-1818	1	Gear, Ring		185-5429	1	MDKUB
3	185-5587	5	Screw, Hex Head Cap		185-2116	1	MDKWB
4	800-2057	8	Screw, Hex Head Cap (M8 X 1.25 X 20mm)	13	800-6065	1	Screw, Hex Head Cap (M8 x 1.25 x 60mm)
5	850-2008	8	Washer, Lock (M8)	14	104-1794	1	Housing, Flywheel
6	526-2100	8	Washer, Flat (M8)	15	850-0050	1	Washer, Lock (3/8)
7	850-0114-54	1	Washer, Lock (M8)	16	802-0072	1	Screw, Socket Head Machine (3/8-16 x 1mm)
8	526-0399-60	1	Washer, Flat (M8)	17	403-4090-02	1	Bracket, Lifting
9	800-3017-20	1	Screw, Hex Head Cap (M8 x 1.25 x 25mm)				
10	185-2366	1	Nut				

Main Bearing Case MDKUB and MDKWB (Spec A-G)



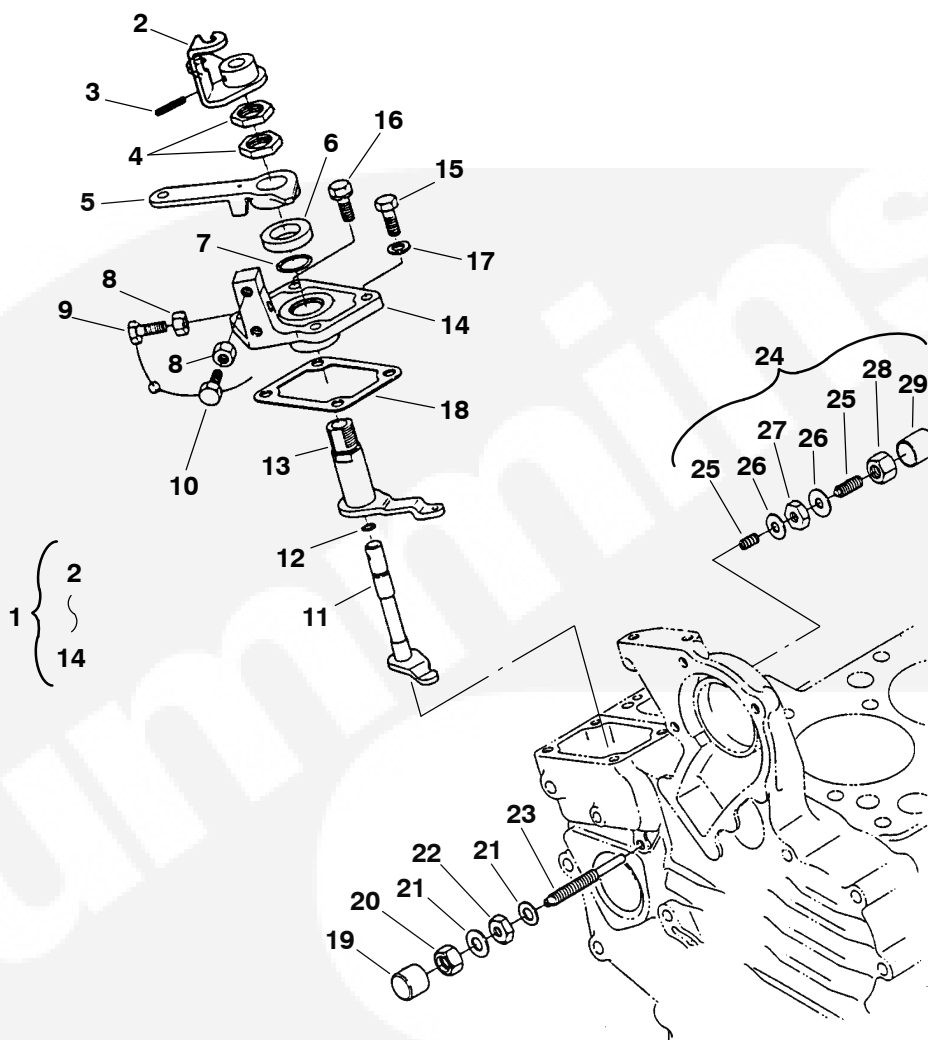
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5438	1	Gasket	8			Screw, Hex Head Cap
2			Gasket	185-5515	4		MDKUB
	185-5439	1	Spec A-C	185-5515	6		MDKWB
	185-7383	1	Begin Spec D	9			Holder, Rear Main Bearing
3	185-7073	1	Cover Assy, Bearing Case (Includes Plate Cover and Oil Seal)	185-5514	1		Spec A-C
4	185-5516	1	Cover, Bearing Plate	185-7072	1		Begin Spec D
5	185-5437	1	Seal, Oil	10	185-5808	1	Holder, Center Main Bearing (MDKWB Only)
6	185-2390	8	Screw, Hex Head Cap W/ Lock Washer (M6 x 20mm)	11	185-5517	1	Holder, Front Main Bearing
7	185-2559	8	Screw, Hex Head Cap	12			Bolt, Bearing Case
				185-5519	1		MDKUB
				185-5519	2		MDKWB

Main Bearing Case MDKUB (Begin Spec H)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	232-4193	1	Assy Bearing, Case Wheel	8	185-5439	1	Gasket, Case Cover
2	185-5580	1	Metal, Camshaft	9	185-2391	8	Bolt
3	185-5515	2	Bolt, Bearing Case	10	185-2559	8	Bolt
4	185-5438	1	Gasket, Bearing Case	11	232-4192	1	Assy Main Bearing
5	185-7073	1	Assy Cover, Bearing Case	12	185-5581	1	Metal, Camshaft
6	185-5516	1	Cover, Bearing Case	13	185-5515	2	Bolt, Bearing Case
7	185-5437	1	Seal, Oil	14	181-9046	1	Bolt, Bearing Case

Speed Control MDKUB and MDKWB (Spec A-G)



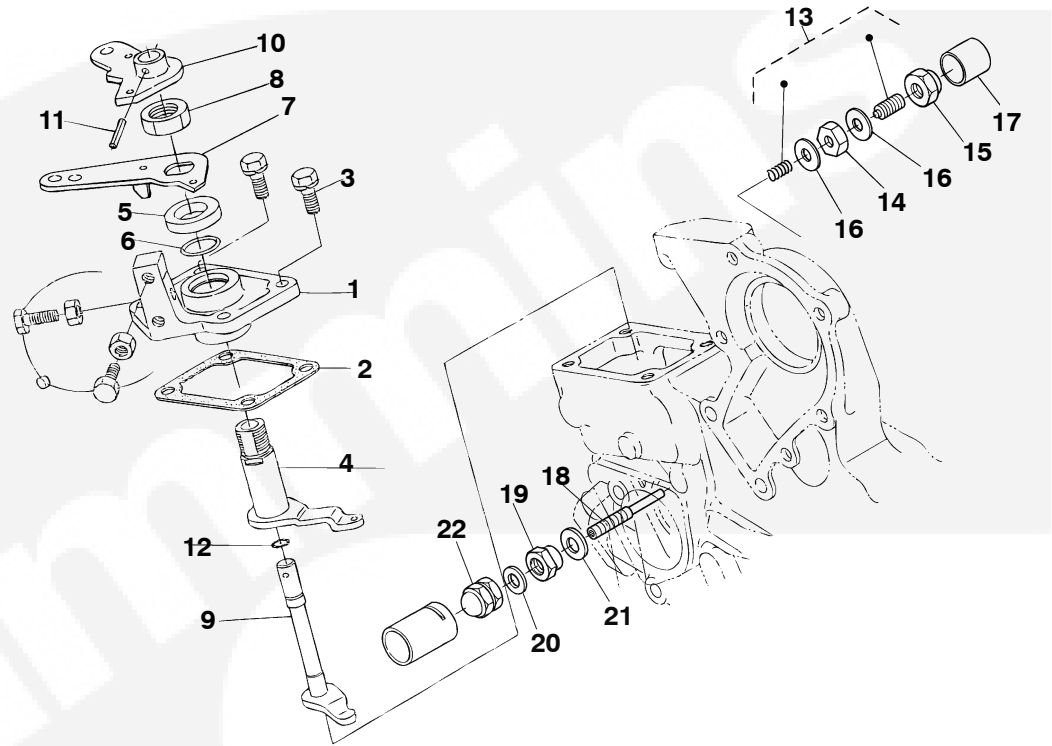
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7388	1	Plate Assy, Speed (Includes Parts Marked +)
2	185-5750	1	+Lever, Engine Stop
3	185-5696	1	+Pin, Spring
4	185-5693	2	+Nut, Jam Hex
5	185-5692	1	+Lever, Speed Control Spec A-C
	185-7387	1	Begin Spec D
6	185-5690	1	+Collar
7	185-5691	1	+O'Ring
8	185-4255	3	+Nut
9	185-2439	2	+Bolt
10	185-2342	1	+Stopper
11	185-5749	1	+Shaft, Lever
12	185-2347	1	+O'Ring
13	185-5689	1	+Lever, Governor
14	185-5687	1	+Plate, Speed Control
15	185-5688	2	Screw, Hex Head Cap
16	185-2389	2	Screw, Hex Head Cap W/Lock Washer (M6 x 18mm)
17	185-2284	2	Seal, Oil

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
18	185-7080	1	Gasket Spec A-C
	185-7080	1	Begin Spec D
19	185-2283	1	Cap
20	185-5685	1	Nut, Cap
21	185-2284	2	Gasket
22	185-5684	1	Nut, Hex Spec A-C
	185-6931	1	Begin Spec D
23	185-5683	1	Screw, Adjusting
24		1	Idle Assy (Includes Parts Marked *)
25	185-5680	2	*Bolt, Adjusting
26	185-2338	2	*Gasket
27	185-2180	1	*Nut, Hex
28	185-5681	1	*Nut, Cap
29	185-5682	1	*Cap

+ - Parts Included in Speed Control Assy.

* - Parts Included in Idle Assy.

Speed Control MDKUB (Begin Spec H)

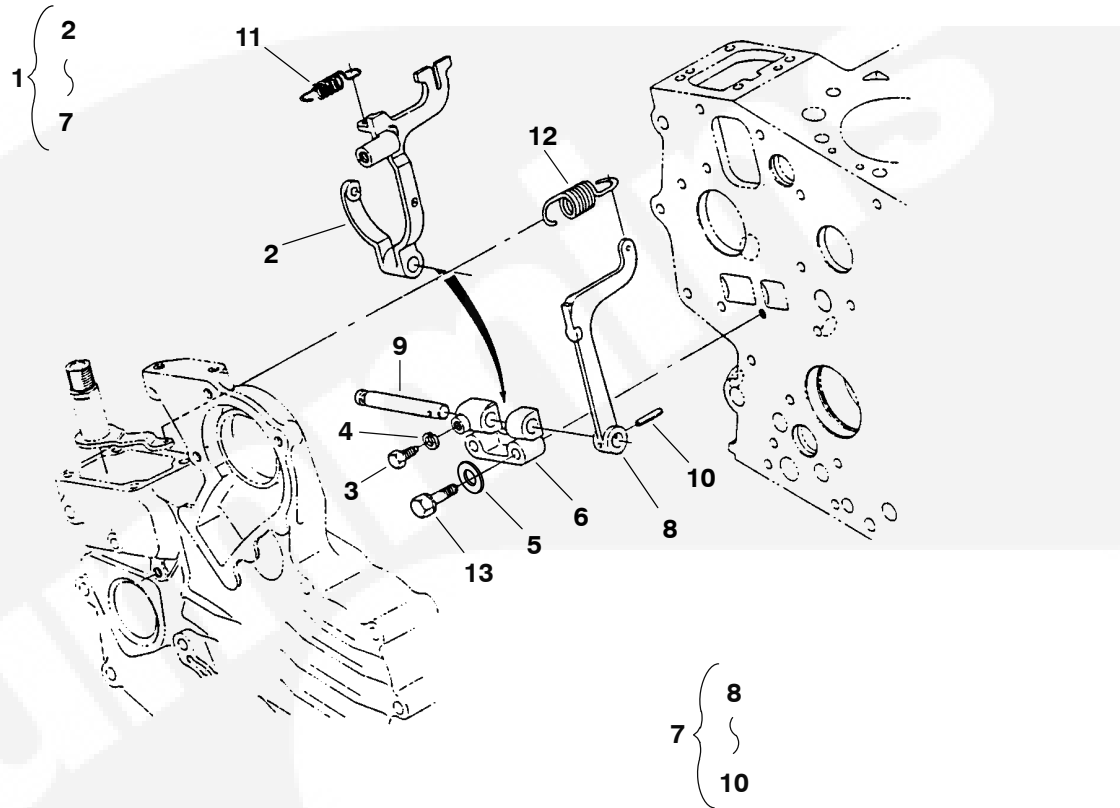


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	150-2973	1	Assy Plate, Speed Control (Includes Parts Marked +)	12	184-0017	1	+ O'Ring
	181-9056	1	Assy Apparatus, Idle (Includes Parts Marked *)	13	185-5680	1	* Assy Bolt, Adjustment
1	185-5687	1	+ Plate Assy, Speed (Includes Parts Marked +)	14	181-9041	1	* Nut
2	185-7080	1	Gasket, Control Plate	15	185-5681	1	* Nut
3	150-2972	2	Bolt	16	185-2338	2	* Gasket
4	185-5689	1	+ Lever, Governor	17	185-5682	1	Cap
5	184-0057	1	+ Collar	18	181-9057	1	Screw, Adjusting
6	184-0019	1	+ O'Ring	19	185-6931	1	Nut, Lock
7	150-2975	1	+ Lever, Speed Control	20	185-2284	1	Gasket
8	860-2132	1	+ Nut, Speed Control	21	185-7313	1	Gasket
9	150-2976	1	+ Shaft, Lever	22	185-5685	1	Nut, Hex
10	150-2974	1	+ Lever, Engine Stop				
11	516-2142	1	+ Pin, Spring				

+ - Parts Included in Speed Control Assy.

* - Parts Included in Idle Assy.

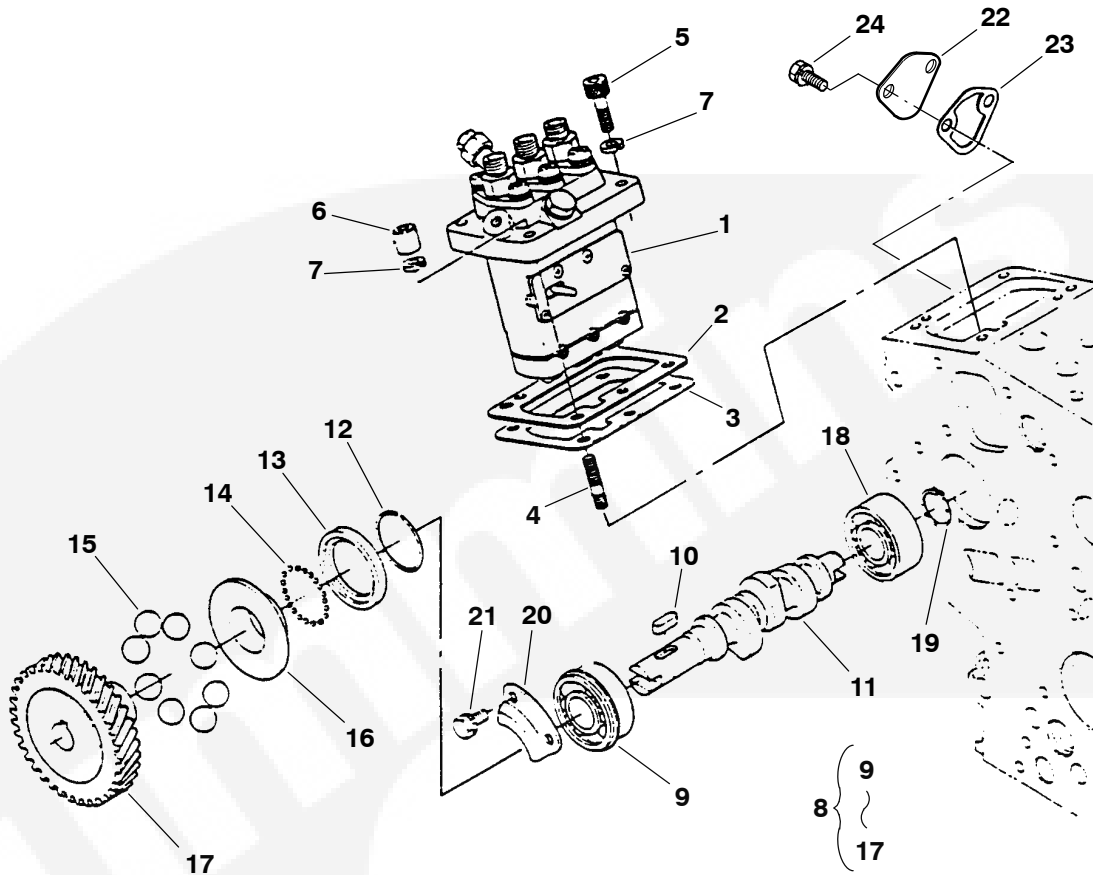
Governor MDKUB and MDKWB (Spec A-G)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5755	1	Lever Assy, Fork (Includes Parts Marked *)	8	185-5702	1	Lever, Outer Fork
2	185-5756	1	*Lever, Inner Fork	9	185-5703	1	Shaft
3	185-2173	1	*Screw, Hex Head Cap	10	185-5696	1	Pin, Spring
4			*Washer, Spring Lock	11	185-5698	1	Spring, Start
	185-2379	1	Spec A-C	12	185-5802	1	Spring, Governor
	185-6999	1	Begin Spec D	13	185-2393	2	Screw, Hex Head Cap (M6 x 35mm)
5	185-5966	2	*Washer, Plain (M6)				
6	185-5755	1	*Holder, Fork Lever				
7	185-5701	1	*Lever Assy, Outer Fork (Includes Fork Lever, Shaft and Pin)				

* - Parts Included in Fork Lever Assy.

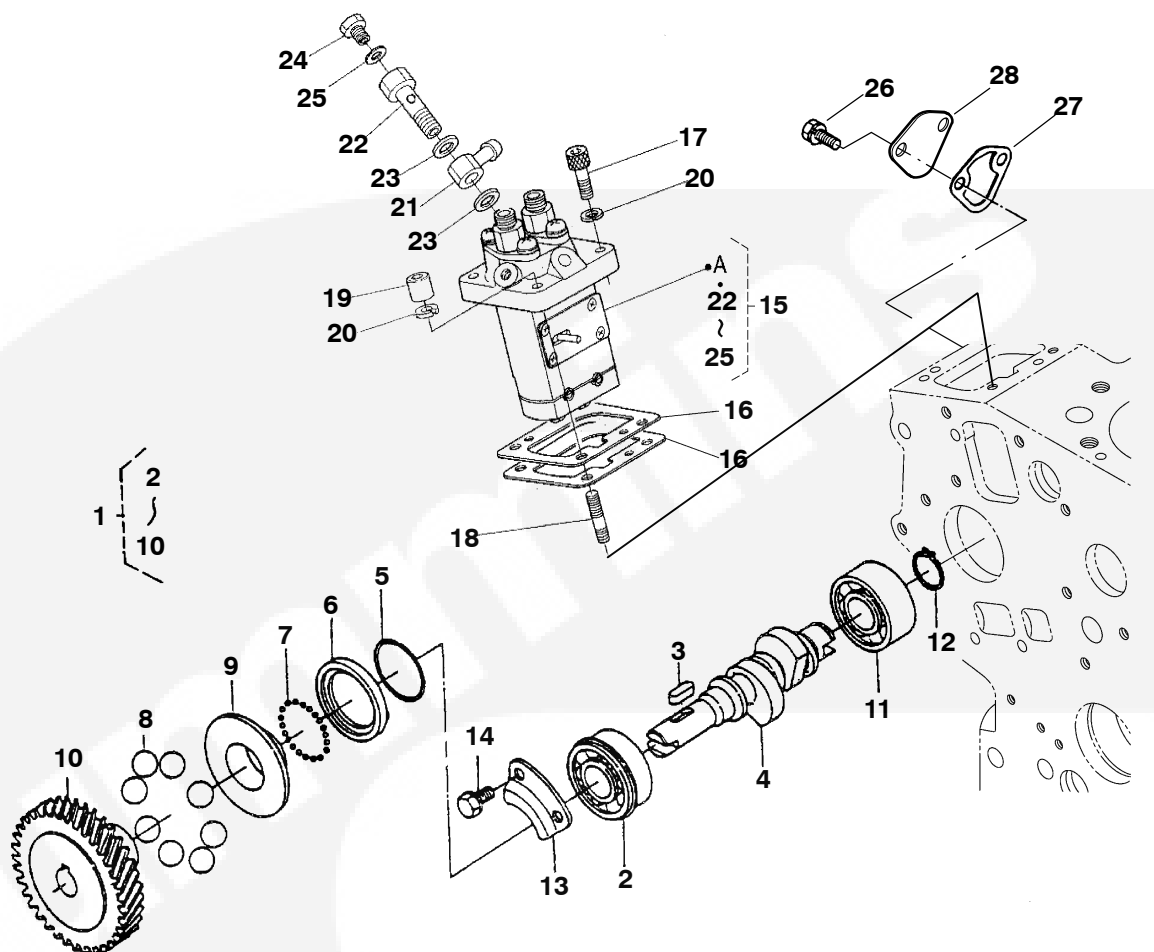
Injection Pump MDKUB and MDKWB (Spec A-G)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5751	1	Pump, Injection MDKUB	9	185-5629	1	*Bearing, Ball
	185-5814	1	MDKWB	10	185-2353	1	*Key, Feather
2	185-6735	1	Shim, Injection Pump (.20mm) MDKUB	11			*Camshaft, Fuel
	185-6749	1	MDKWB		185-5628	1	MDKUB
3			Shim, Injection Pump 0.25mm MDKUB		181-9075	1	MDKWB
	185-6736	2	MDKWB	12	185-2163	1	*Circlip, Governor Sleeve
	185-6739	2	0.30mm	13	185-5632	1	*Case, Governor Ball
	185-6737	1		14	185-2357	32	*Ball
4			Stud MDKUB	15	185-5633	8	*Ball
	185-5624	1	MDKWB	16	185-5631	1	*Sleeve, Governor
	185-5624	2		17	185-5630	1	*Gear, Injection Pump
5			Screw, Socket Head Cap MDKUB	18	510-0163	1	Bearing
	185-5623	3	MDKWB	19	185-5634	1	Circlip
6			Nut, Cap MDKUB	20	185-5635	1	Plate, Retaining
	185-5625	1	MDKWB	21	185-2386	2	Screw, Hex Lock Washer Cap (M6 x 12mm)
	185-5625	2		22	185-5798	1	Plate, Cover
7			Washer, Spring Lock Spec A-C	23			Gasket, Hole Cover
	185-2380	4	Begin Spec D		185-6580	1	Spec A-C
	185-6759	4			185-6580	1	Begin Spec D
8			Camshaft Assy, Fuel (Includes Parts Marked *)	24			Screw, Hex Head Cap with Lockwasher
	185-5627	1	MDKUB		185-2386	2	MDKUB (M6 x 12mm)
	185-5812	1	MDKWB		185-2389	2	MDKWB (M6 x 18mm)

* - Parts Included in Fuel Camshaft Assy.

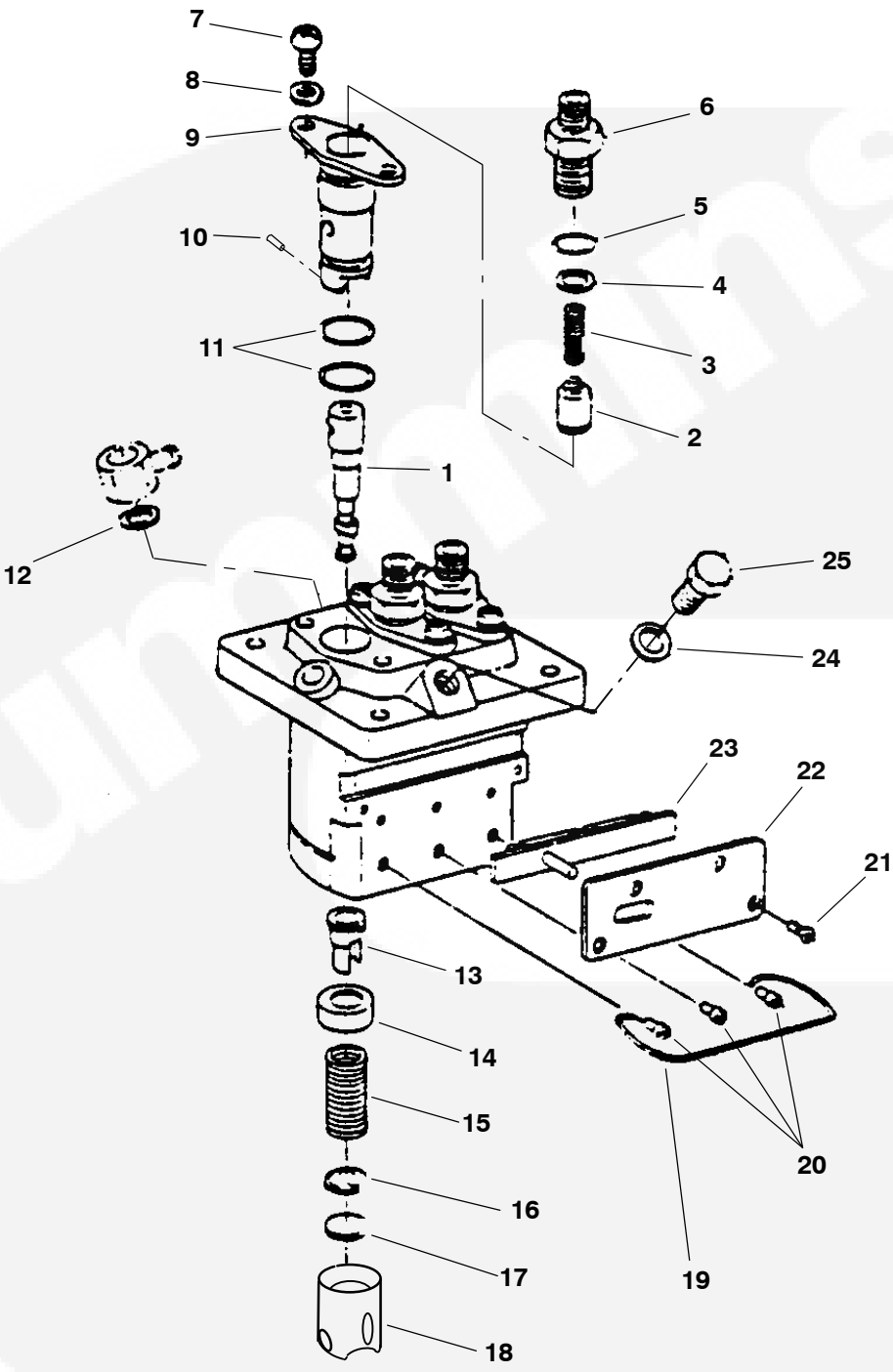
Injection Pump MDKUB (Begin Spec H)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	105-0769	1	Camshaft Assy, Fuel (Includes Parts Marked *)	16			Shim, Injection Pump
2	185-5629	1	*Bearing, Ball	147-0980			. 0.350mm
3	185-5560	1	*Key, Feather	147-0981			. 0.175mm
4	181-9053	1	*Camshaft, Fuel	181-9081			. 0.200mm
5	181-9038	1	*Circlip, Governor Sleeve	181-9082			. 0.250mm
6	185-5632	1	*Case, Governor Ball	181-9083			. 0.300mm
7	185-2357	32	*Ball	17	185-5623	3	Screw, Hex Socket Head
8	185-5633	8	*Ball	18	185-5624	1	Stud
9	185-5631	1	*Sleeve, Governor	19	185-5625	1	Nut
10	181-9166	1	*Gear, Injection Pump	20	185-2080	4	Washer, Spring
11	181-9182	1	Bearing	21	185-5626	1	Joint, Eye
12	185-5634	1	Circlip	22	185-5660	1	Screw, Hollow
13	185-5635	1	Plate, Retaining	23	185-5661	2	Gasket
14	185-2389	2	Screw, Hex Lock Washer Cap (M6 x 12mm)	24	185-5662	1	Screw
15	185-5751	1	Assy Pump, Injection	25	185-5663	1	Gasket
				26	185-2388	2	Bolt
				27	185-6580	1	Gasket, Fuel Pump
				28	185-5798	1	Cover, Fuel Pump

* - Parts Included in Fuel Camshaft Assy.

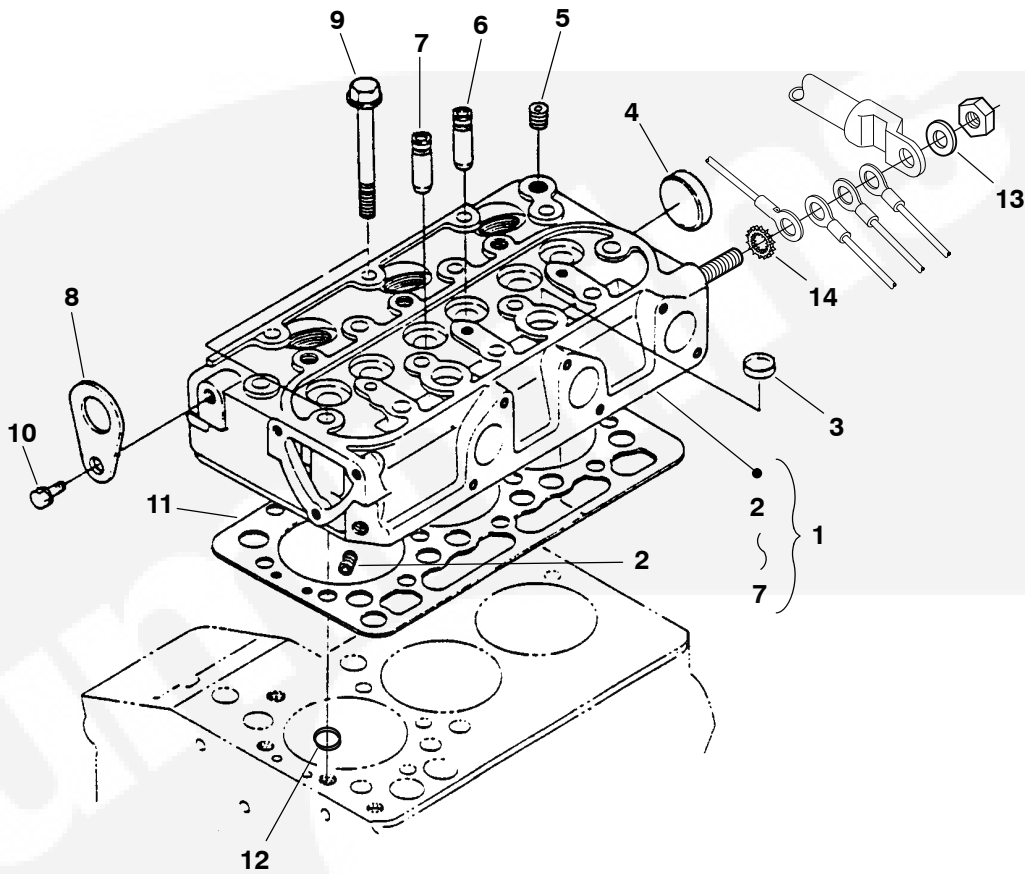
Injection Pump Components



Injection Pump Components

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Pump Assy, Injection	12	185-5661	1	O'Ring
	185-5751	1	MDKUB	13			Sleeve, Control
	185-5814	1	MDKWB		185-5659	2	MDKUB
1			Plunger, Injection Pump		185-5659	3	MDKWB
	185-5753	2	MDKUB	14			Seat, Upper Spring
	185-5753	3	MDKWB		185-5653	2	MDKUB
2			Valve, Delivery		185-5653	3	MDKWB
	185-5639	2	MDKUB	15			Spring, Plunger
	185-5639	3	MDKWB		185-5652	2	MDKUB
3			Spring, Delivery Valve		185-5652	3	MDKWB
	185-5640	2	MDKUB	16			Seat, Lower Spring
	185-5640	3	MDKWB		185-5654	2	MDKUB
4			Gasket, Delivery Valve		185-5654	3	MDKWB
	185-5641	2	MDKUB	17	185-5655	1	Shim
	185-5641	3	MDKWB	18			Tappet
5			O'Ring		185-5649	2	MDKUB
	185-5643	2	MDKUB		185-5649	3	MDKWB
	185-5643	3	MDKWB	19			Wire, Retainer
6			Holder, Delivery Valve		185-5651	1	MDKUB
	185-5642	2	MDKUB		185-6707	1	MDKWB
	185-5642	3	MDKWB	20			Pin
7			Screw, Round Head Machine		185-5650	2	MDKUB
	185-5647	4	MDKUB		185-5650	3	MDKWB
	185-5647	6	MDKWB	21	185-5658	4	Screw, Machine
8			Washer	22			Plate
	185-5648	4	MDKUB		185-5657	1	MDKUB
	185-5648	6	MDKWB		185-5818	1	MDKWB
9			Flange, Sleeve	23			Rack, Control
	185-5644	2	MDKUB		185-5656	1	MDKUB
	185-5644	3	MDKWB		185-5817	1	MDKWB
10			Pin, Joint	24	185-5820	1	Gasket, Injection Pump (MDKWB Only)
	185-5645	2	MDKUB	25	185-6888	1	Bolt (MDKWB Only)
	185-5645	3	MDKWB				
11			O'Ring				
	185-5646	4	MDKUB				
	185-5646	6	MDKWB				

Cylinder Head



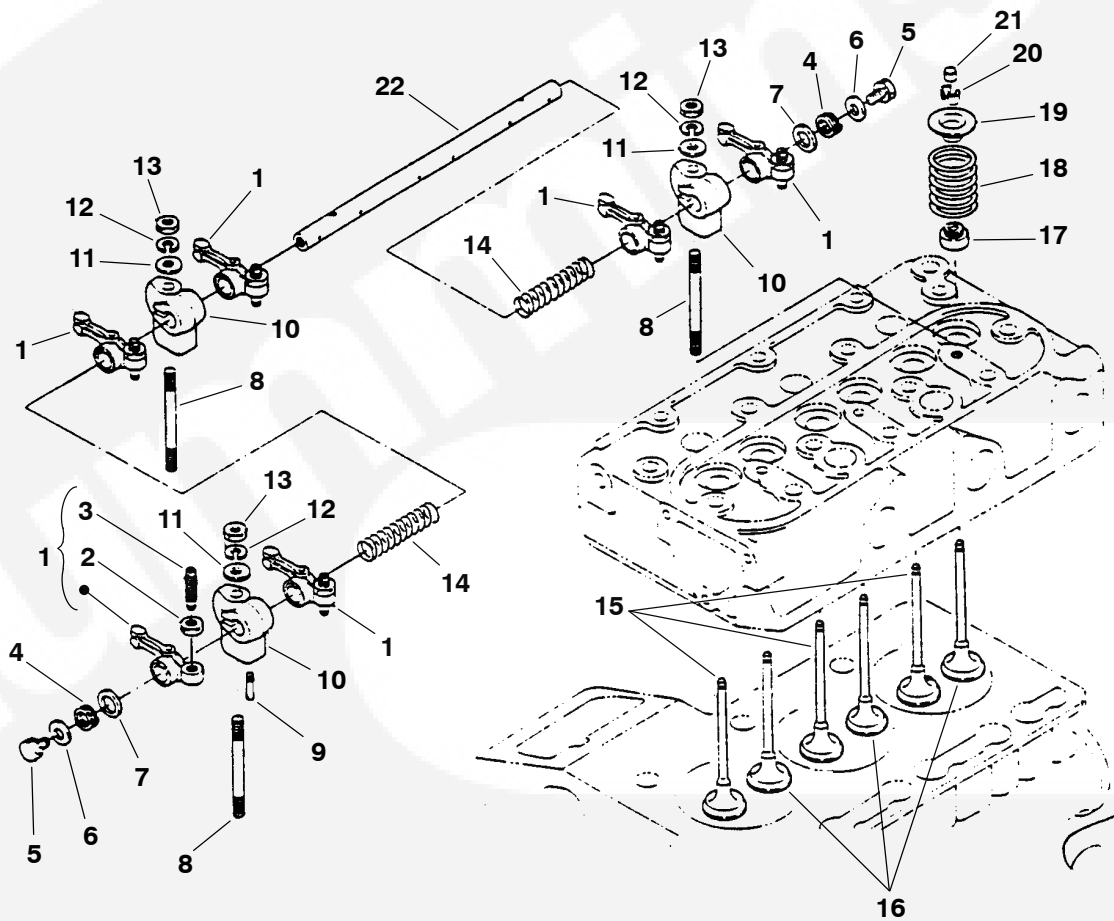
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Head Assy, Cylinder (Includes Parts Marked *)	185-5500	3		MDKWB
			Spec A-C (End S/N 489915)	8	185-5498	1	Eye, Lifting Bolt, Cylinder Head
	185-6754	1	MDKUB	9	185-5503	10	MDKUB
	185-5805	1	MDKWB		185-5503	14	MDKWB
			Begin Spec D (Begin S/N 489916)	10			Screw, Hex Head Cap Spec A-C
	185-6754	1	MDKUB		185-6956	1	Begin Spec D
	185-5805	1	MDKWB	11	185-6956	1	Gasket, Cylinder Head
2	185-2188	1	*Plug, Pipe (50C Drive)		185-5339	1	MDKUB
3	185-2413	2	*Cap, Sealing (MDKWB Only)		185-6120	1	MDKWB
4	185-2411	1	*Cap, Sealing	12	185-2095	1	O'Ring
5	185-5502	1	*Plug, Pipe	13	526-2100	1	Washer, Flat (M8)
6			*Guide, Exhaust Valve	14	856-0008	1	Washer, EIT (5/16")
	185-5501	2	MDKUB				
	185-5501	3	MDKWB				
7			*Guide, Intake Valve				
	185-5500	2	MDKUB				

* - Parts Included in Cylinder Head Assy.

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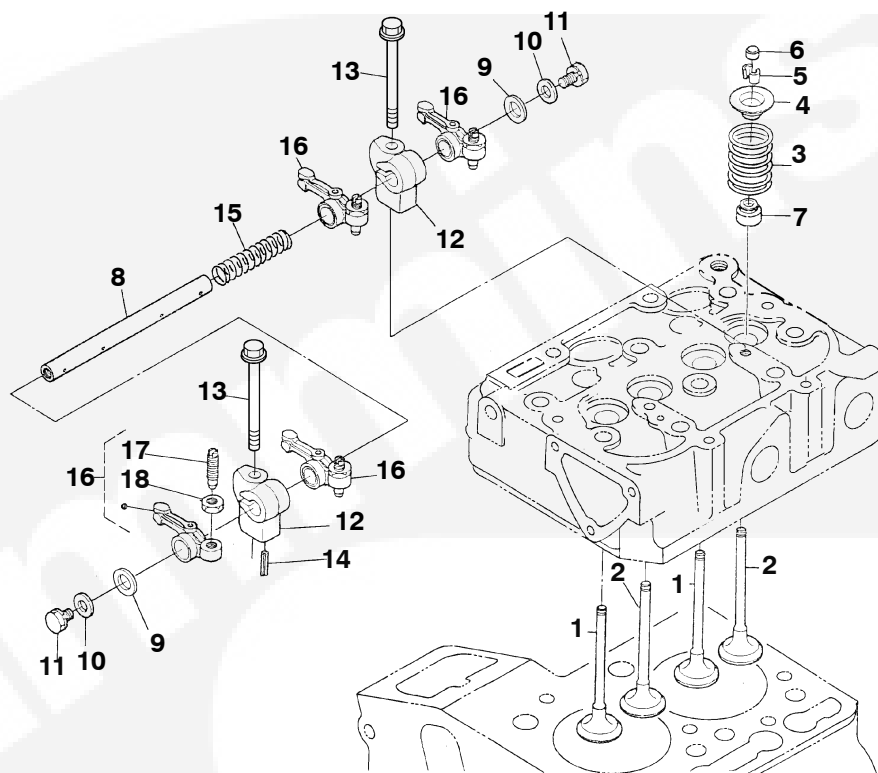
Rocker Arm



Rocker Arm

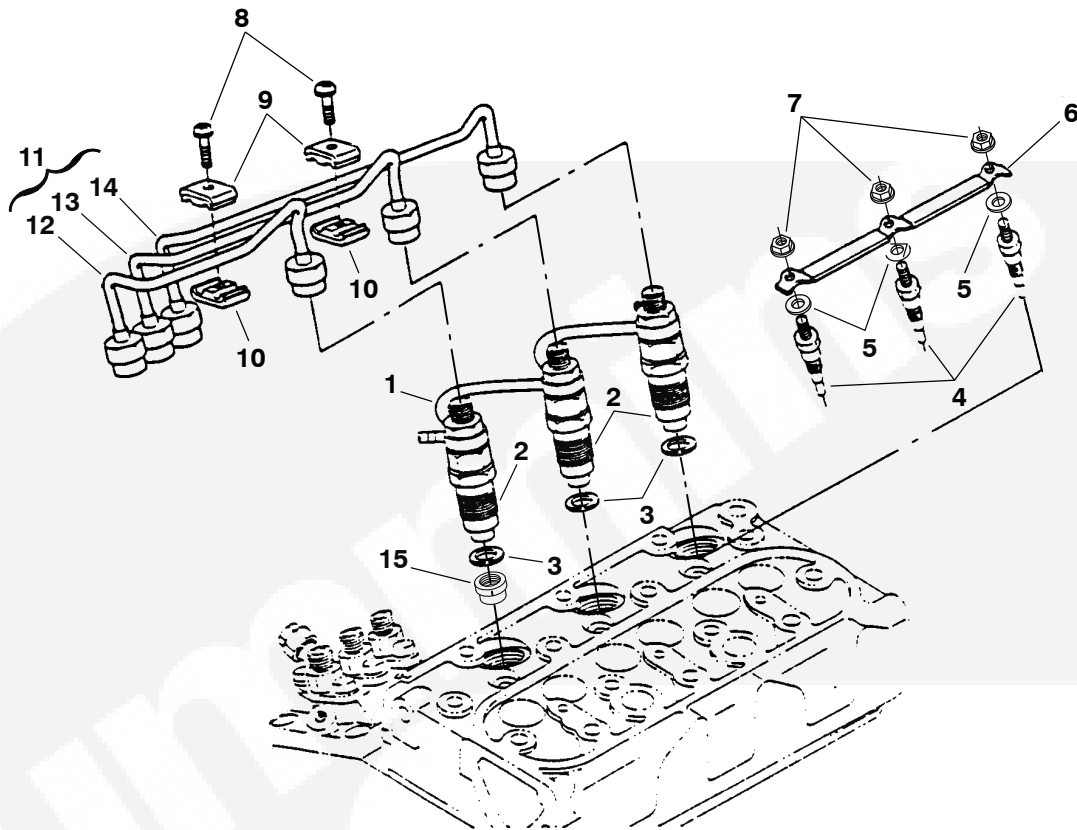
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Arm, Rocker (Includes Nut and Screw)	13			Nut, Flange
	185-5551	4	MDKUB		185-4255	2	MDKUB
	185-5551	6	MDKWB		185-4255	3	MDKWB
2			Nut	14			Spring, Rocker Arm
	185-5553	4	MDKUB		185-5550	1	MDKUB
	185-5553	6	MDKWB		185-5550	2	MDKWB
3			Screw, Adjusting	15			Valve, Intake
	185-5552	4	MDKUB		185-5537	2	MDKUB
	185-5552	6	MDKWB		185-5537	3	MDKWB
4	185-5544	2	Spring, Thrust (Spec A-C)	16			Valve, Exhaust
5	185-2386	2	Screw, Hex Head Cap (M6 x 12mm)		185-5538	2	MDKUB
					185-5538	3	MDKWB
6			Washer, Flat	17			Seal, Valve Stem
	185-5545	2	Spec A-C		185-5348	4	MDKUB
	185-7395	2	Being Spec D		185-5348	6	MDKWB
7			Washer, Flat	18			Spring, Valve
	185-5549	2	Spec A-C		185-5539	4	MDKUB
	185-7086	2	Begin Spec D		185-5539	6	MDKWB
8			Stud	19			Retainer, Valve Spring
	185-5547	2	MDKUB		185-5540	4	MDKUB
	185-5547	3	MDKWB		185-5540	6	MDKWB
9			Screw, Set	20			Collet, Valve Spring
	185-5548	1	Spec A-C		185-5541	4	MDKUB
	185-2351	1	Begin Spec D		185-5541	6	MDKWB
10			Bracket, Rocker Arm	21			Cap, Valve
	185-5546	2	MDKUB		185-5542	4	MDKUB
	185-5546	3	MDKWB		185-5542	6	MDKWB
11			Washer, Flat	22			Shaft, Rocker Arm
	740-1004	2	MDKUB		185-5543	1	Spec A-C
	740-1004	3	MDKWB				Begin Spec D
12			Washer, Spring Lock		185-7394	1	MDKUB
			Spec A-C		185-7085	1	MDKWB
	185-2380	2	MDKUB				
	185-2380	3	MDKWB				
			Begin Spec D				
	185-6759	2	MDKUB				
	185-6759	3	MDKWB				

Rocker Arm MDKUB (Begin Spec H)



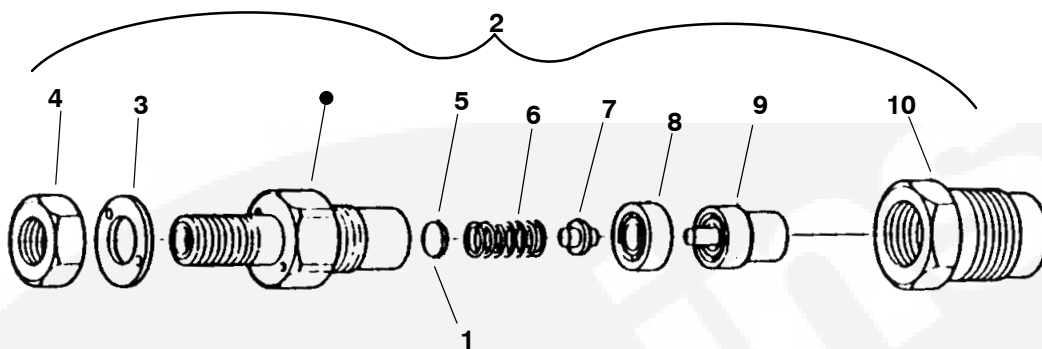
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	110-3990	2	Valve, Intake	10	185-7395	2	Washer, Plain
2	110-3991	2	Valve, Exhaust	11	185-2389	2	Bolt
3	185-5539	4	Spring, Valve	12	181-9251	2	Bracket, Rocker Arm
4	185-5540	4	Retainer, Spring	13	181-9012	2	Bolt, Flange
5	185-5541	4	Collet, Valve Spring	14	185-2351	1	Pin, Spring
6	181-9157	4	Cap, Valve	15	185-5550	1	Spring, Rocker Arm
7	185-5348	4	Seal, Valve Stem	16	185-5551	4	Assy , Rocker Arm
8	185-7394	1	Shaft, Rocker Arm	17	185-5552	4	Screw, Adjusting
9	185-7086	2	Washer, Flat	18	185-5553	4	Nut

Nozzle Holder and Glow Plug MDKUB and MDKWB (Spec A-F)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5803	1	Pipe, Overflow MDKUB	8			Screw, Pan Head Machine W/Lock Washer
	185-5821	1	MDKWB	185-2385	1		MDKUB
2	185-6738	2	Holder, Nozzle MDKUB	185-2385	2		MDKWB
	185-6738	3	MDKWB	9	185-2345	1	Clamp, Top Pipe MDKUB
3			Gasket	185-2345	2		MDKWB
	185-5337	2	MDKUB	10			Clamp, Bottom Pipe
	185-5337	3	MDKWB	185-5612	1		MDKUB
4			Plug, Glow (HR5)	185-5612	2		MDKWB
	185-5421	2	MDKUB	11	185-5419	1	Pipe Assy, Injection (Includes Pipes) (Spec A-C)
	185-5421	3	MDKWB	12			Pipe, Injection
5			Washer, Flat	185-7389	1		Spec A-C
			Spec A-C	185-7389	1		Begin Spec D
	185-7004	2	MDKUB	13			Pipe, Injection
	185-7004	3	MDKWB	185-7390	1		Spec A-C
			Begin Spec D	185-7390	1		Begin Spec D
	185-7004	2	MDKUB	14			Pipe, Injection (MDKWB Only)
	185-7004	3	MDKWB	185-7397	1		Spec A-C
6			Cord, Glow Plug	185-7397	1		Begin Spec D
	185-5614	1	MDKUB	15			Seal, Heat (Begin Spec D)
	185-5823	1	MDKWB	185-5985	2		MDKUB
7			Nut, Flange	185-5985	3		MDKWB
	185-5615	2	MDKUB				
	185-5615	3	MDKWB				

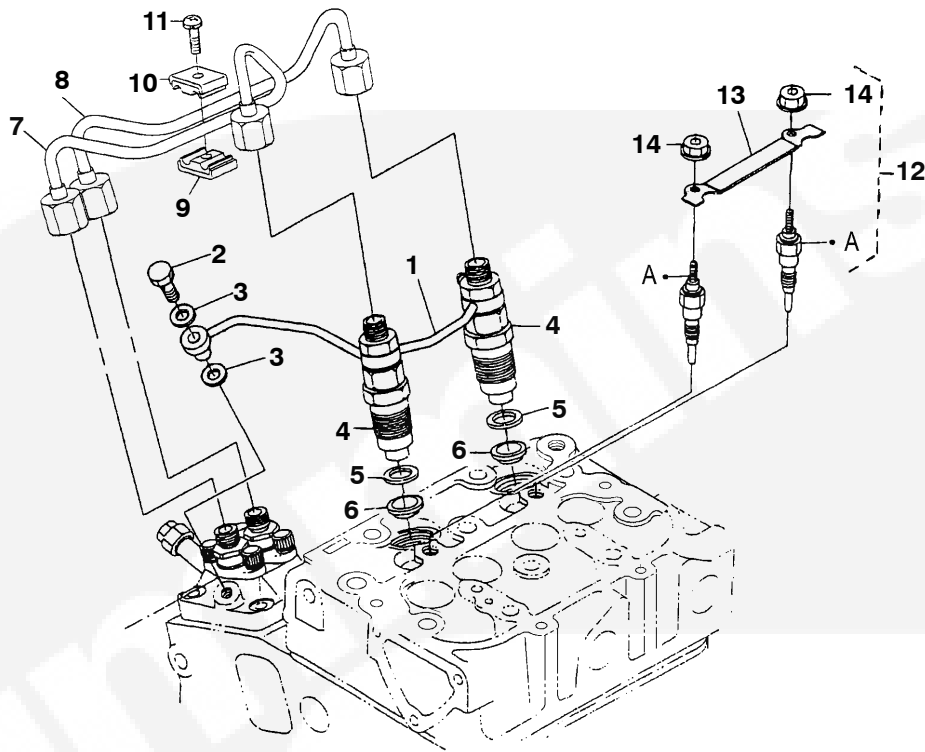
Nozzle Holder Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5363	1	Washer Assy – Includes the Following Adjusting Washers:	2			Holder Assy, Nozzle (Includes Parts Marked *)
	185-5364	1	0.900 mm				Spec A–C
	185-5365	1	0.925 mm	185-6738	2		MDKUB
	185-5366	1	0.950 mm	185-6738	3		MDKWB
	185-5367	1	0.975 mm				Begin Spec D
	185-5368	1	1.000 mm	185-6738	2		MDKUB
	185-5369	1	1.025 mm	185-6738	3		MDKWB
	185-5370	1	1.050 mm	3			*Nut, Hex
	185-5371	1	1.075 mm	185-5616	2		MDKUB
	185-5372	1	1.100 mm	185-5616	3		MDKWB
	185-5373	1	1.125 mm	4			*Washer
	185-5374	1	1.150 mm	185-5621	2		MDKUB
	185-5375	1	1.175 mm	185-5621	3		MDKWB
	185-5376	1	1.200 mm	5			*Washer, Adjusting
	185-5377	1	1.225 mm	185-5364	2		MDKUB
	185-5378	1	1.250 mm	185-5364	3		MDKWB
	185-5379	1	1.275 mm	6			*Spring
	185-5380	1	1.300 mm	185-5617	2		MDKUB
	185-5381	1	1.325 mm	185-5617	3		MDKWB
	185-5382	1	1.350 mm	7			*Rod, Push
	185-5383	1	1.375 mm	185-5619	2		MDKUB
	185-5384	1	1.400 mm	185-5619	3		MDKWB
	185-5385	1	1.425 mm	8			*Spacer
	185-5386	1	1.450 mm	185-5618	2		MDKUB
	185-5387	1	1.475 mm	185-5618	3		MDKWB
	185-5388	1	1.500 mm	9			*Nozzle
	185-5389	1	1.525 mm	185-5622	2		MDKUB
	185-5390	1	1.550 mm	185-5622	3		MDKWB
	185-5391	1	1.575 mm	10			*Nut, Nozzle
	185-5392	1	1.600 mm				Spec A–C
	185-5393	1	1.625 mm	185-5620	2		MDKUB
	185-5394	1	1.650 mm	185-5620	3		MDKWB
	185-5395	1	1.675 mm				Begin Spec D
	185-5396	1	1.700 mm	185-6825	2		MDKUB
	185-5397	1	1.725 mm	185-6825	3		MDKWB
	185-5398	1	1.750 mm				
	185-5399	1	1.775 mm				
	185-5400	1	1.800 mm				
	185-5401	1	1.825 mm				
	185-5402	1	1.850 mm				
	185-5403	1	1.875 mm				
	185-5404	1	1.900 mm				
	185-5405	1	1.925 mm				
	185-5406	1	1.950 mm				

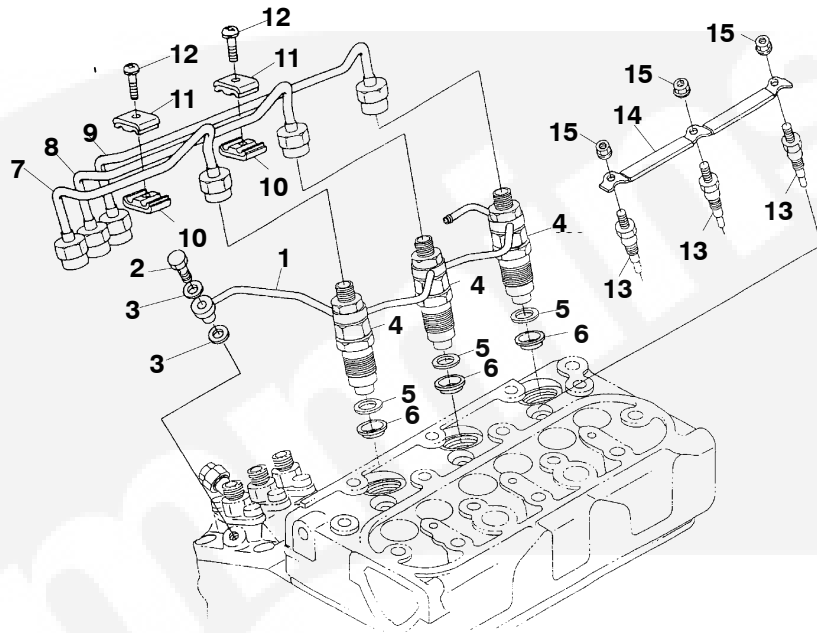
* – Parts Included in Nozzle Holder Assy.

Nozzle Holder and Glow Plug MDKUB Spec G



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	181-9084	1	Kit Holder, Nozzle	8	181-9168	1	Pipe, Injection
1		1	Tube	9	185-5612	1	Clamp, Bottom Pipe
2	185-7082	1	Screw, Air Bleeder	10	185-5613	1	Clamp, Top Pipe
3	185-2284	2	Gasket	11	185-2385	1	Screw, With Washer
4	185-6738	2	Assy Holder, Nozzle	12	185-5421	2	Glow, Plug
5	185-5337	2	Washer, Flat	13	185-5614	1	Cord, Glow Plug
6	185-5985	2	Seal, Heat	14	185-5615	2	Nut, Flanged
7	181-9167	1	Pipe, Injection				

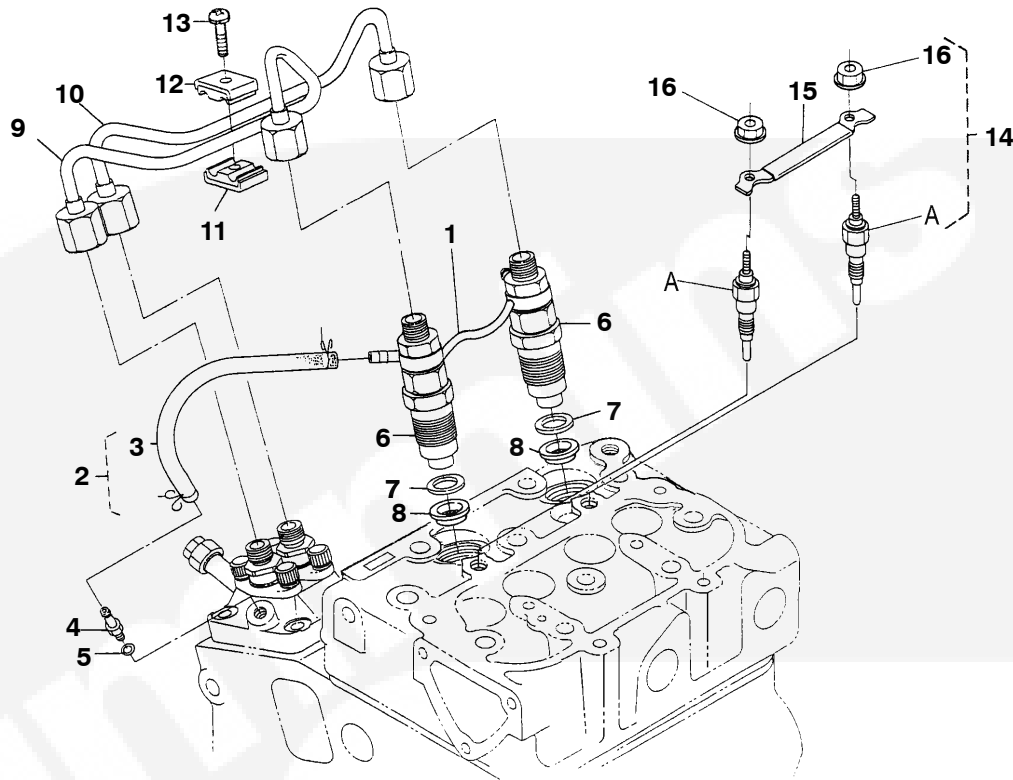
Nozzle Holder and Glow Plug MDKWB Spec G



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	181-9084	1	Kit Holder, Nozzle
1	181-9202	1	Pipe, Overflow
2	185-7082	3	Screw, Air Bleeder
3	185-2284	2	Gasket
4	185-6738	3	Holder, Nozzle
5	185-5337	3	Gasket
6	185-5985	3	Seal, Heat
7	181-9167	1	Pipe, Injection

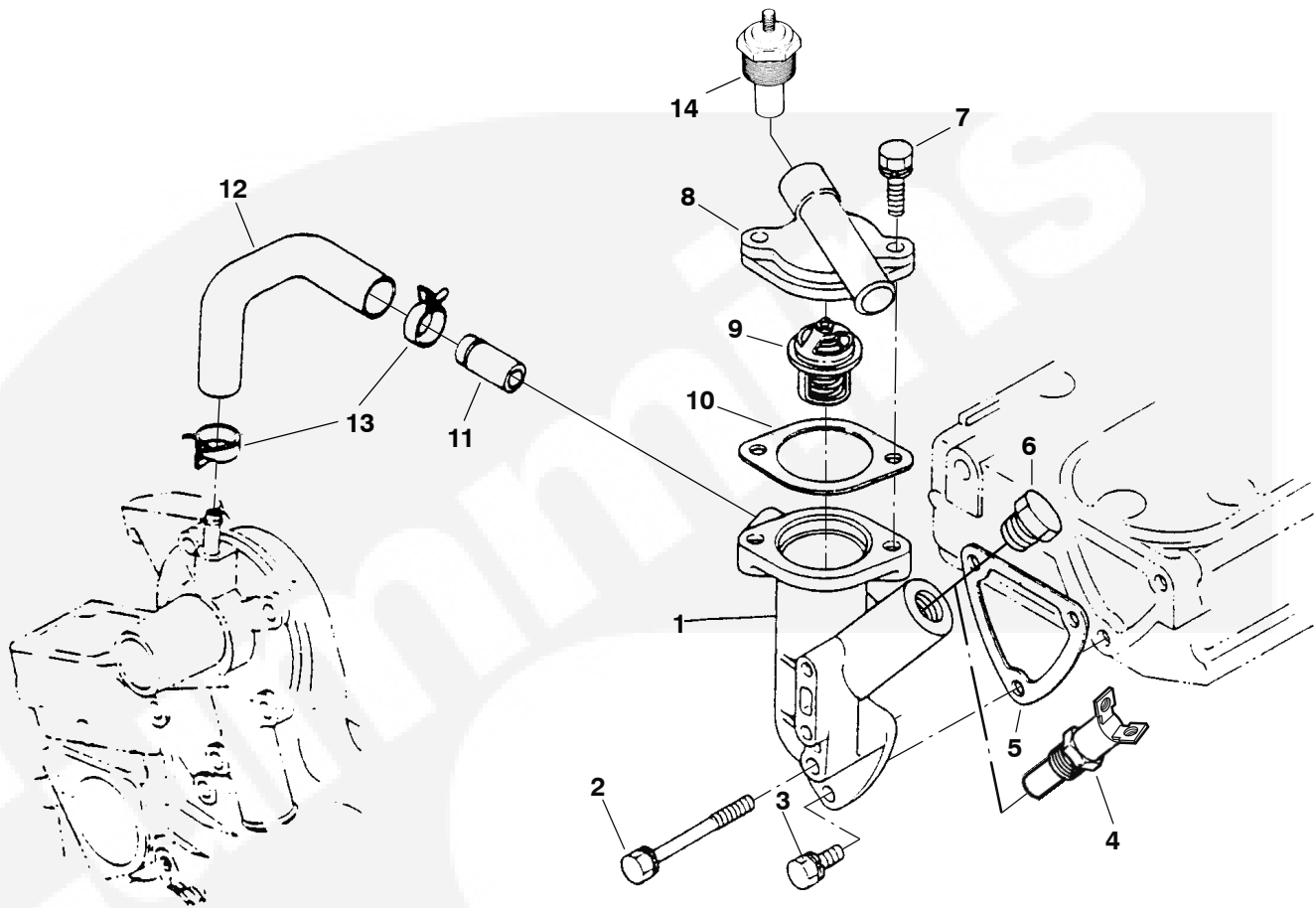
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	181-9168	1	Pipe, Injection
9	181-9177	1	Pipe, Injection
10	185-5612	2	Clamp, Bottom Pipe
11	185-2345	2	Clamp, Top Pipe
12	185-2385	2	Screw, With Washer
13	185-5421	3	Plug, Glow
14	185-5614	1	Cord, Glow Plug
15	185-5615	3	Nut, Flange

Nozzle Holder and Glow Plug MDKUB (Begin Spec H)



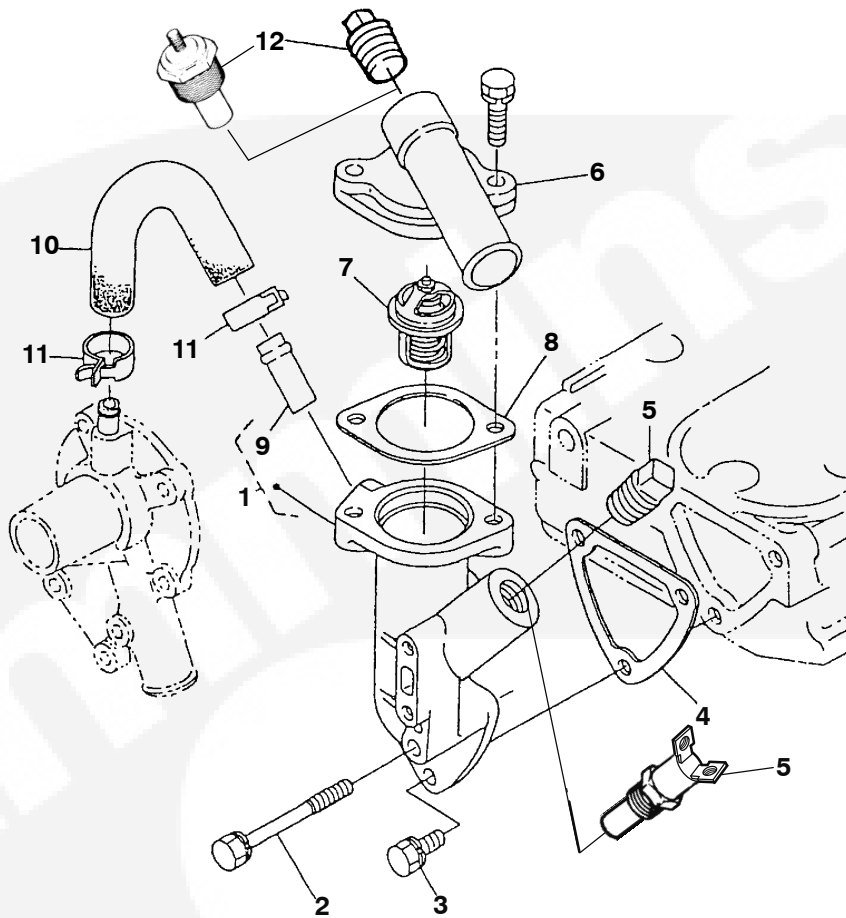
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	181-9084	2	Kit Holder, Nozzle (Includes Parts Marked*)	8	185-5985	2	*Seal, Heat
1	185-5803	1	Pipe, Overflow	9	501-1118	1	Pipe, Injection
2	185-5607	1	Pipe, Overflow	10	501-1119	1	Pipe, Injection
3	181-9055	1	Pipe, Overflow	11	185-5612	1	Clamp, Bottom Pipe
4	185-5609	1	Screw, Air Bleeder	12	185-2345	1	Clamp, Top Pipe
5	185-2284	1	Gasket	13	185-2385	1	Screw, With Washer
6	185-6738	2	*Assy Holder, Nozzle	14	185-5421	2	Glow, Plug
7	185-5337	2	*Gasket	15	185-5614	1	Cord, Glow Plug
				16	185-5615	2	Nut, Flanged

Water Outlet Flange MDKUB and MDKWB (Spec A-G)



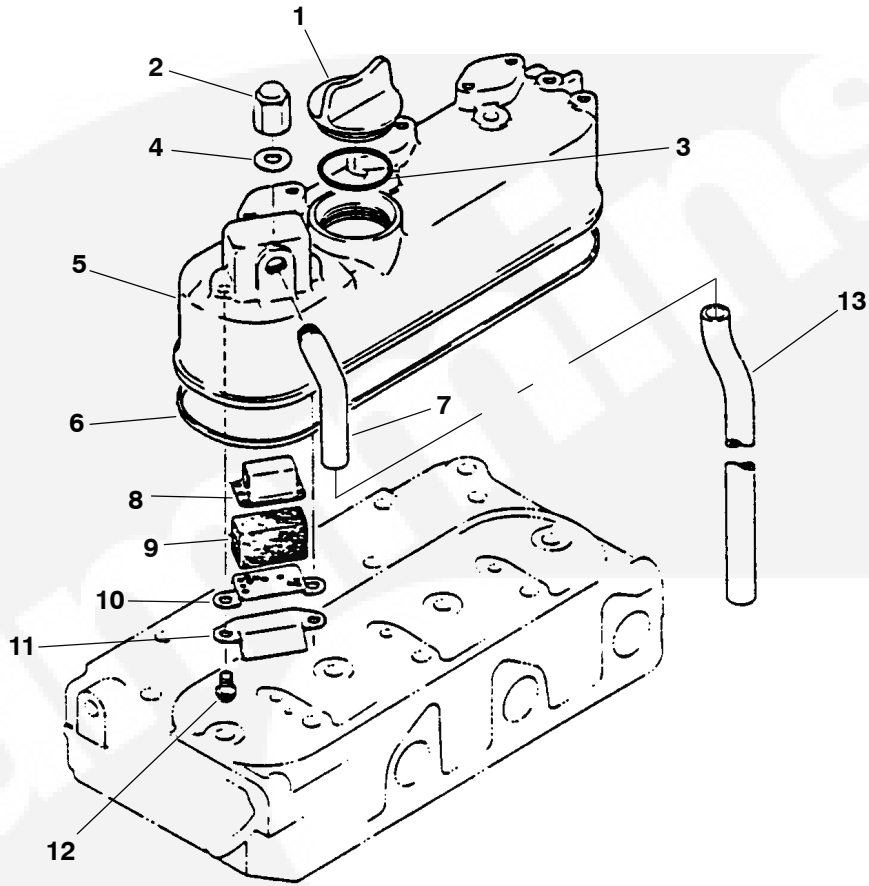
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	*Kit, Sender (Includes Water Temperature Sender)			185-5792	1	MDKWB Begin Spec G	
	300-5040	1	Negative Ground	9		Thermostat	
	300-5041	1	Isolated Ground	185-5458	1	Spec A-H	
			Flange, Water Pump (Includes Water Return Pipe)	185-5458	1	MDKUB Begin Spec G	
	184-0063	1	MDKUB	185-5458	1	MDKWB Begin Spec G	
2	181-9185	1	MDKWB	10	185-2238	1	Gasket, Thermostat
2	185-7069	1	Bolt	11	185-5719	1	Pipe, Water Return
3	185-2388	2	Bolt (M6 x 16mm)	12		Pipe, Water Return	
4	309-0673	1	Thermostat, High Temp Engine (S17)	185-5722	1	Spec A-H	
5			Gasket, Water Flange	184-0064	1	MDKUB Begin Spec G	
	185-5720	1	Spec A-C	185-5722	1	MDKWB Begin Spec G	
	185-7393	1	Spec D	13	185-6667	2	Band, Pipe
	185-7393	1	MDKUB Begin Spec G	14		+ Sender, Water Temperature (E21)	
	185-5720	1	MDKWB Begin Spec G	193-0318	1	Negative Ground	
6	185-5826	1	Plug	193-0457-01	1	Isolated Ground	
7			Bolt	+ - Water Temperature Sender Included in Remote Panel Kit Found on Remote Control Panel Page for Spec A,B.			
8	185-2559	2	Spec A-C	* - Sender Kit Also Includes Oil Pressure Sender Listed on Gearcase Page.			
	185-7084	2	Begin Spec D				
			Cover, Thermostat				
	185-5475	1	Spec A-H				
	185-7208	1	MDKUB Begin Spec G				

Water Outlet Flange MDKUB (Begin Spec H)



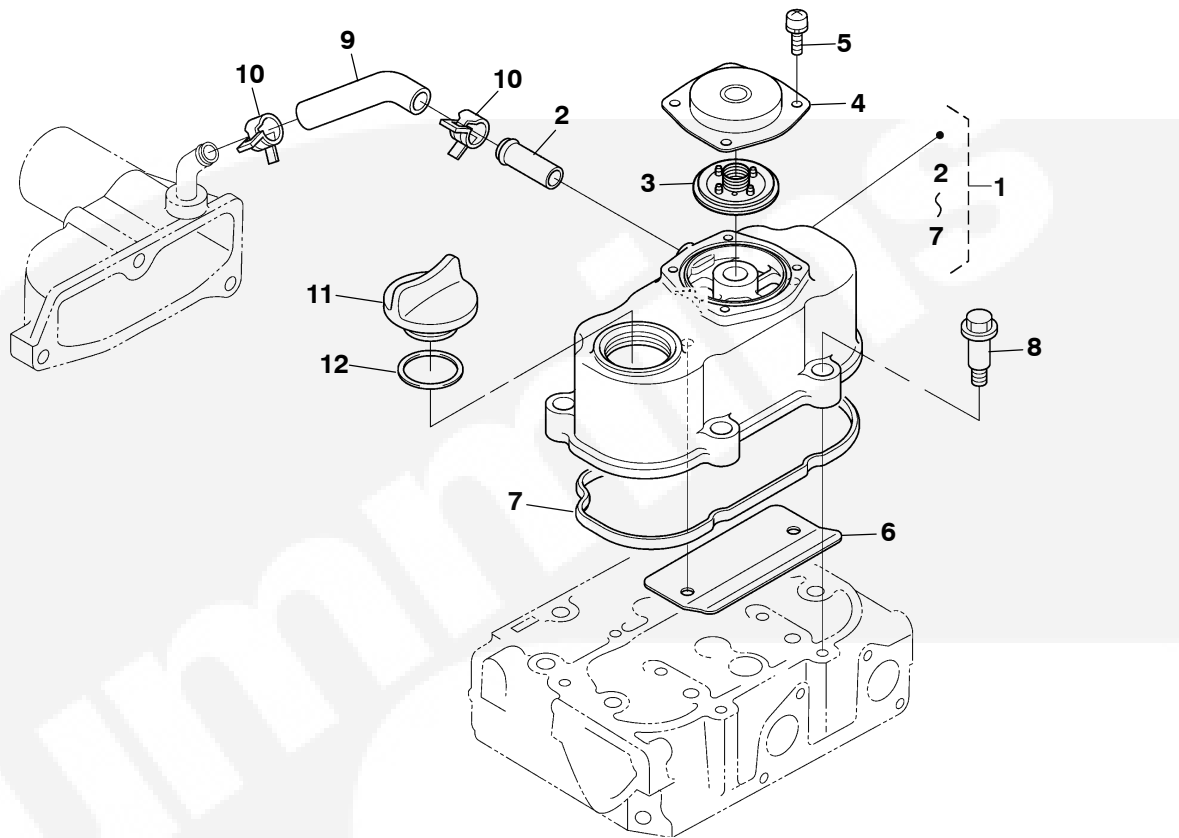
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			*Kit, Sender (Includes Water Temperature Sender)	8	185-2238	1	Gasket, Thermostat
	300-5040	1	Negative Ground	9	181-9107	1	Pipe, Water Return
	300-5041	1	Isolated Ground	10	185-5722	1	Pipe, Water Return
1	181-9185	1	Flange, Water Pump (Includes Water Return Pipe)	11	185-6667	2	Band, Pipe
2	185-7069	1	Bolt	12			+ Sender, Water Temperature (E21)
3	185-2389	2	Bolt (M6 x 16mm)		193-0318	1	Negative Ground
4	181-9059	1	Gasket, Water Flange		193-0457-01	1	Isolated Ground
5			Thermostat or Plug				
	505-2520	1	Plug				+ - Water Temperature Sender Included in Remote Panel Kit Found on Remote Control Panel Page for Spec A,B.
	309-0673	1	Thermostat, High Temp (ISO Gnd)				* - Sender Kit Also Includes Oil Pressure Sender Listed on Gearcase Page.
6	185-5475		Cover, Thermostat				
7	185-5458		Thermostat				

Cylinder Head Cover Spec A



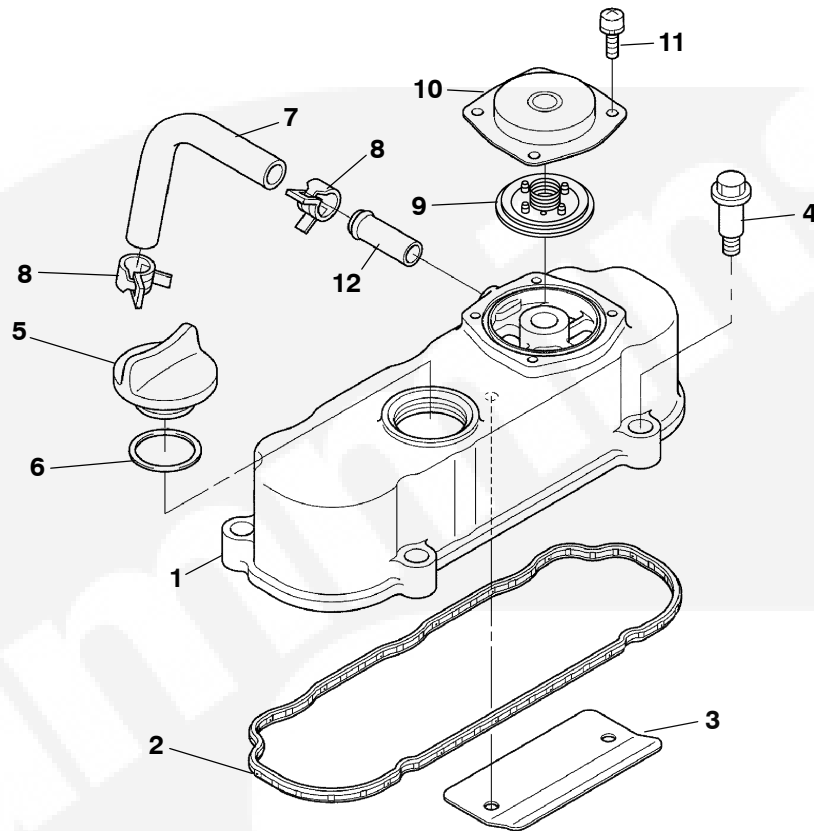
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5407	1	Cap, Oil Fill	7	185-5520	1	Elbow, Breather
2			Nut, Cap	8	185-5522	1	Cover, Breather Element
	185-5529	2	MDKUB	9	185-5523	1	Element, Breather
	185-5529	3	MDKWB	10	185-5521	1	Plate, Breather Element
3	185-2349	1	Seal, Oil Fill Cap	11	185-5524	1	Shield, Breather Oil
4			O'Ring	12	185-5747	2	Screw, Lock Washer Pan Head
	185-2284	2	MDKUB	13			Hose, Breather
	185-2284	3	MDKWB		185-5525		Spec A
5			Cover, Valve				Spec B
	185-5527	1	MDKUB		503-1620	1	Housed Units - 42.5"
			MDKWB				Unhoused Units
	185-5806	1	Spec A-C		503-1620	1	MDKUB - 31.75"
	185-7071		Begin Spec D		503-1620	1	MDKWB - 41.25"
6			Gasket, Valve Cover				
	185-5528	1	MDKUB				
	185-5807	1	MDKWB				

Cylinder Head Cover Begin MDKUB (Spec G-H)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	181-9245	1	Cover, Cylinder Head	7	181-9246	1	Gasket, Rocker Cover
	181-9245	1	Spec G		181-9246	1	Spec G
	181-9245	1	Begin Spec H		181-9246	1	Begin Spec H
2	185-5719	1	Pipe, Water Return	8	800-6330	4	Bolt
	181-9107	1	Spec G	9	123-2351	1	Tube, Breather
	181-9107	1	Begin Spec H	10	503-1445-04	2	Clamp, Hose
3	181-9240	1	Comp. Valve Breather		181-9024	2	Spec G
	181-9240	1	Spec G		181-9024	2	Begin Spec H
	123-2294	1	Begin Spec H	11	181-9000	1	Plug, Oil Filler
4	181-9238	1	Cover, Breather		181-9000	1	Spec G
	181-9238	1	Begin Spec H		181-9000	1	Begin Spec H
5	185-2384	4	Screw, with Washer	12	185-7426	1	O'Ring
6	181-9248	1	Shield, Breather				

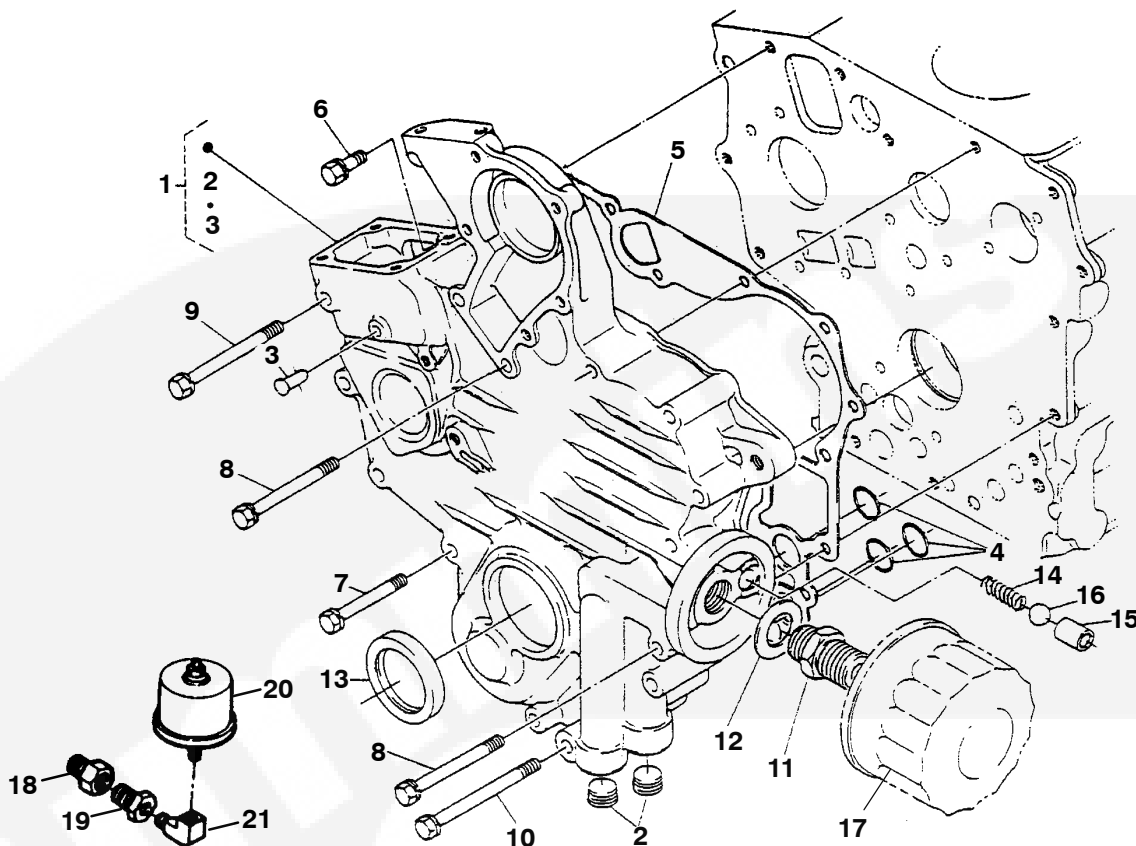
Cylinder Head Cover Begin MDKWB Spec G



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	181-9252	1	Assy, Cover Cylinder Head
2	181-9253	1	Gasket, Head Cover
3	181-9248	1	Shield, Breather Oil
4	800-6330	4	Bolt
5	181-9000	1	Plug, Oil Filler
6	185-7426	1	O'Ring

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	181-9249	1	Tube, Breather
8	503-1445-04	2	Clamp, Hose
9	181-9240	1	Comp. Valve, Breather
10	123-2268	1	Cover, Breather
11	185-2384	4	Screw, Flanger
12	185-6445	1	Pipe, Water Return

Gearcase MDKUB



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0043	1	Gearcase Assy (Includes Pin and Plugs)	15	185-5510	1	Seat, Valve
2	185-2234	2	Plug, Pipe	16	185-6711	1	Ball
3	185-5506	1	Pin, Start Spring	17	185-7444	1	Filter, Oil
4	184-0015	3	O'Ring	18	505-1487	1	+Adapter, Sender (1/4 NPT)
5	185-7382	1	Gasket, Gearcase	19	505-0029	1	+Bushing, Reducer (1/4 x 1/8 NPT)
6	185-2389	1	Bolt	20			*Sender, Oil Pressure (E19)
7	185-7069	8	Bolt		193-0244	1	Negative Ground
8	185-5507	5	Bolt		193-0430-01	1	Isolated Ground
9	185-2397	1	Bolt	21	502-0020-01	1	+Elbow, 90° Street
10	185-2398	1	Bolt				
11	185-2124	1	Joint, Pipe				
12	185-5508	1	Washer, Plain				
13	185-5410	1	Seal, Oil				
14	185-5509	1	Spring				

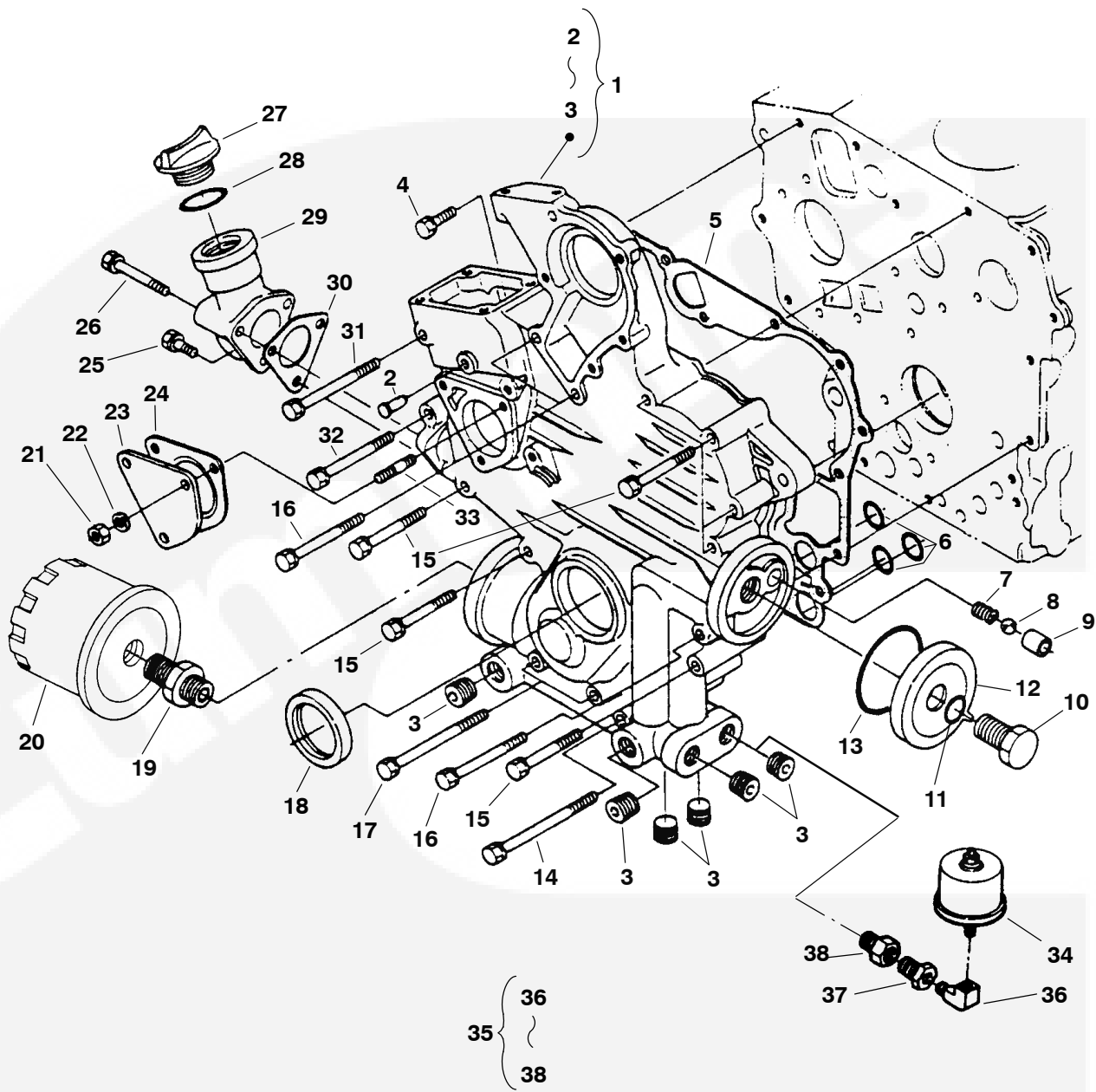
* - Oil Pressure Sender Included in Sender Kit (Found on Water Flange Page) and Remote Panel Kit (Found on Remote Control Panel Page for Spec A-B).

* Water Flange Page and Remote Panel Kit (Found on Remote Control Panel Page for Spec A–B).

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Gearcase MDKWB

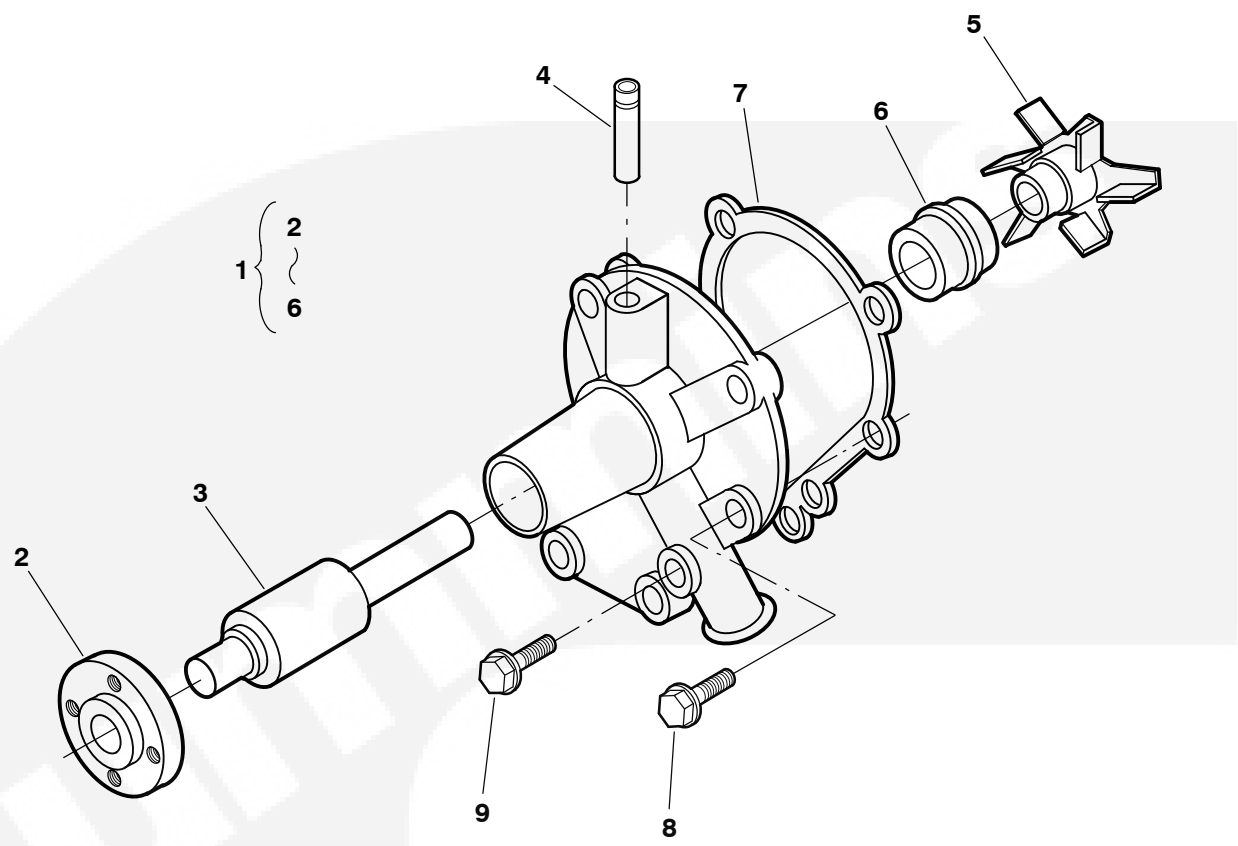


Gearcase MDKWB

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	103-0844	1	Gearcase Assy (Includes Pin and Plugs)	23	185-5512	1	Cover
2	185-5506	1	Pin, Start Spring	24	185-5513	1	Gasket
3	185-5505	8	Plug, Pipe	25	185-2389	3	Bolt (M6 x 18mm)
4	185-2389	1	Screw, Hex Head Cap (M6 x 18mm)	26	185-7069	7	Bolt (M6 x 50mm)
5			Gasket, Gearcase	27	185-5407	1	Cap, Oil Fill
	185-7382	1	Spec A-C	28	185-2349	1	O'Ring
	185-7382	1	Begin Spec D	29	185-2296	1	Flange, Oil Filter
6	184-0015	3	O'Ring	30	185-2309	1	Gasket, Flange
7	185-5509	1	Spring	31	185-2397	1	Screw, Hex Head Cap (M6 x 70mm)
8	185-6711	1	Ball	32	185-2395	1	Bolt (M6 x 60mm)
9	185-5510	1	Seat, Valve	33	185-5727	1	Stud
10	185-5742	1	Bolt	34			*Sender, Oil Pressure (E19)
11	185-5744	1	O'Ring		193-0244	1	Negative Ground
12	185-5741	1	Cover		193-0430-01	1	Isolated Ground
13	185-5743	1	O'Ring	35	100-3440	1	Kit, Remote Panel Modification (Includes Elbow, Adapter and Bushing)
14	185-5746	1	Screw, Hex Head Cap (M6 x 1 x 87mm)				
15			Screw, Hex Head Cap	36	502-0020-01	1	+ Elbow, 90° Street
	185-2394	7	Spec A-C (M6 x 50mm)	37	505-1487	1	+ Adapter, Sender (1/4 NPT)
	185-7069	7	Begin Spec D	38	505-0029	1	+ Bushing, Reducer (1/4 x 1/8 NPT)
16	185-5507	3	Screw, Hex Head Cap (M6 x 1 x 62mm)				
17	185-5745	2	Bolt				
18	185-5410	1	Seal, Front Oil				
19	185-2124	1	Nipple, Hex Pipe				
20	185-7444	1	Filter, Oil				
21	181-9013	3	Nut, Hex				
22			Washer, Spring Lock				
	185-2380	3	Spec A-C				
	185-6759	3	Begin Spec D				

* - Oil Pressure Sender Included in Sender Kit (Found on Water Flange Page) and Remote Panel Kit (Found on Remote Control Panel Page for Spec A-B).

Captive Water Pump Components MDKUB and MDKWB (Spec A-G)

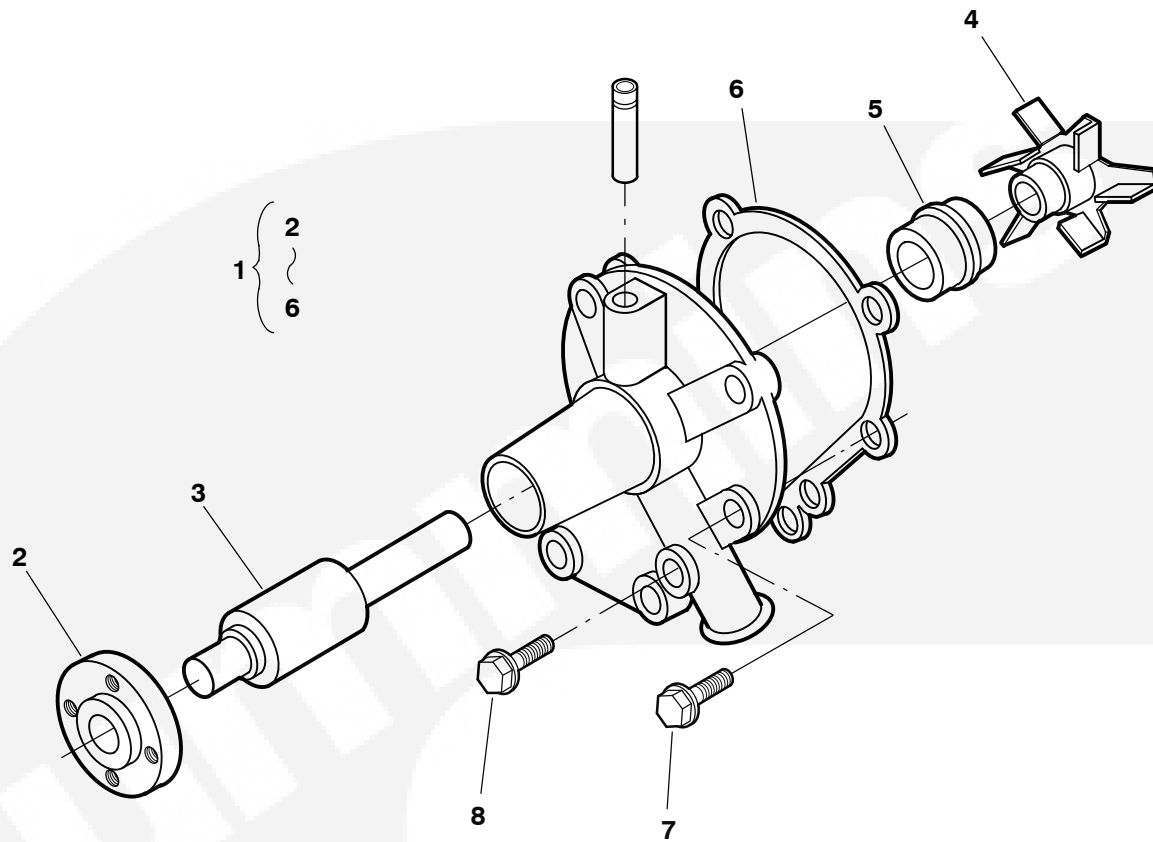


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5433	1	Pump, Water (Includes Parts Marked *)	7	185-5434	1	Gasket, Water Pump
2	185-5712	1	*Flange, Water Pump	8	185-2559	4	Bolt
3	185-5713	1	*Bearing, Ball	9	185-5717	1	Bolt
4	185-5716	1	*Pipe, Return				
5	185-5715	1	*Impeller				
6	185-5714	1	*Seal				

* – Parts Included in Water Pump.



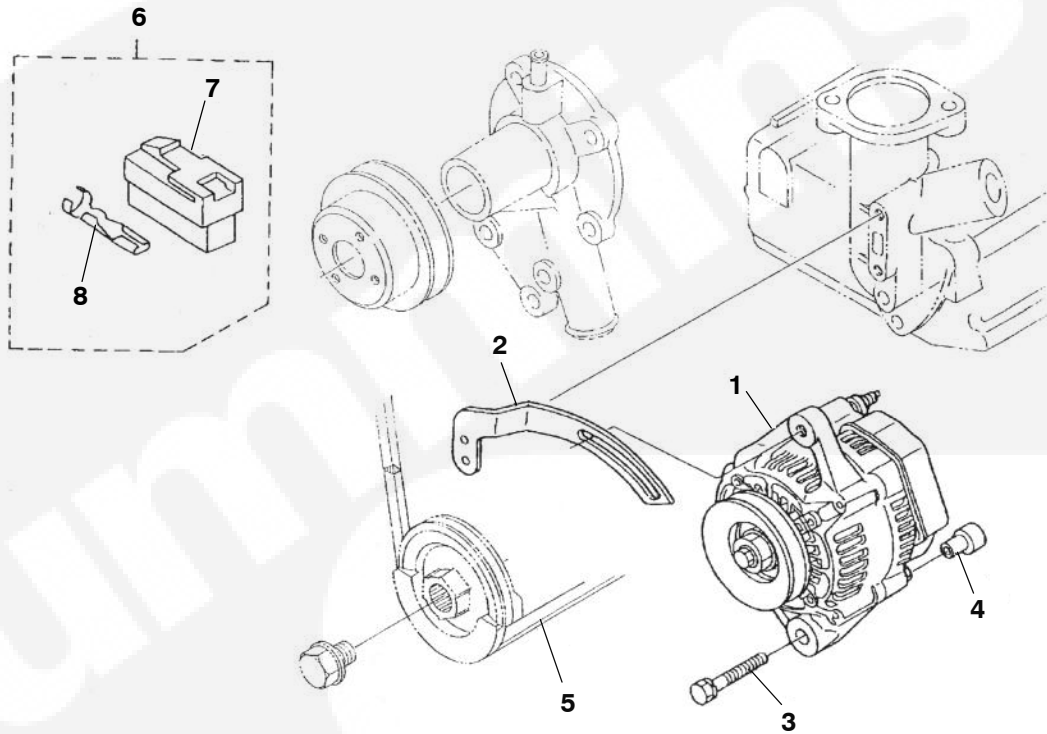
Captive Water Pump Components MDKUB (Begin Spec H)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	132-0492	1	Pump, Water (Includes Parts Marked *)	6	132-0517	1	Gasket, Water Pump
2	185-5712	1	*Flange, Water Pump	7	185-2559	4	Bolt
3	181-9066	1	*Bearing, Ball	8	185-5717	1	Bolt
4	132-0493	1	*Impeller				
5	185-5714	1	*Seal				

* – Parts Included in Water Pump.

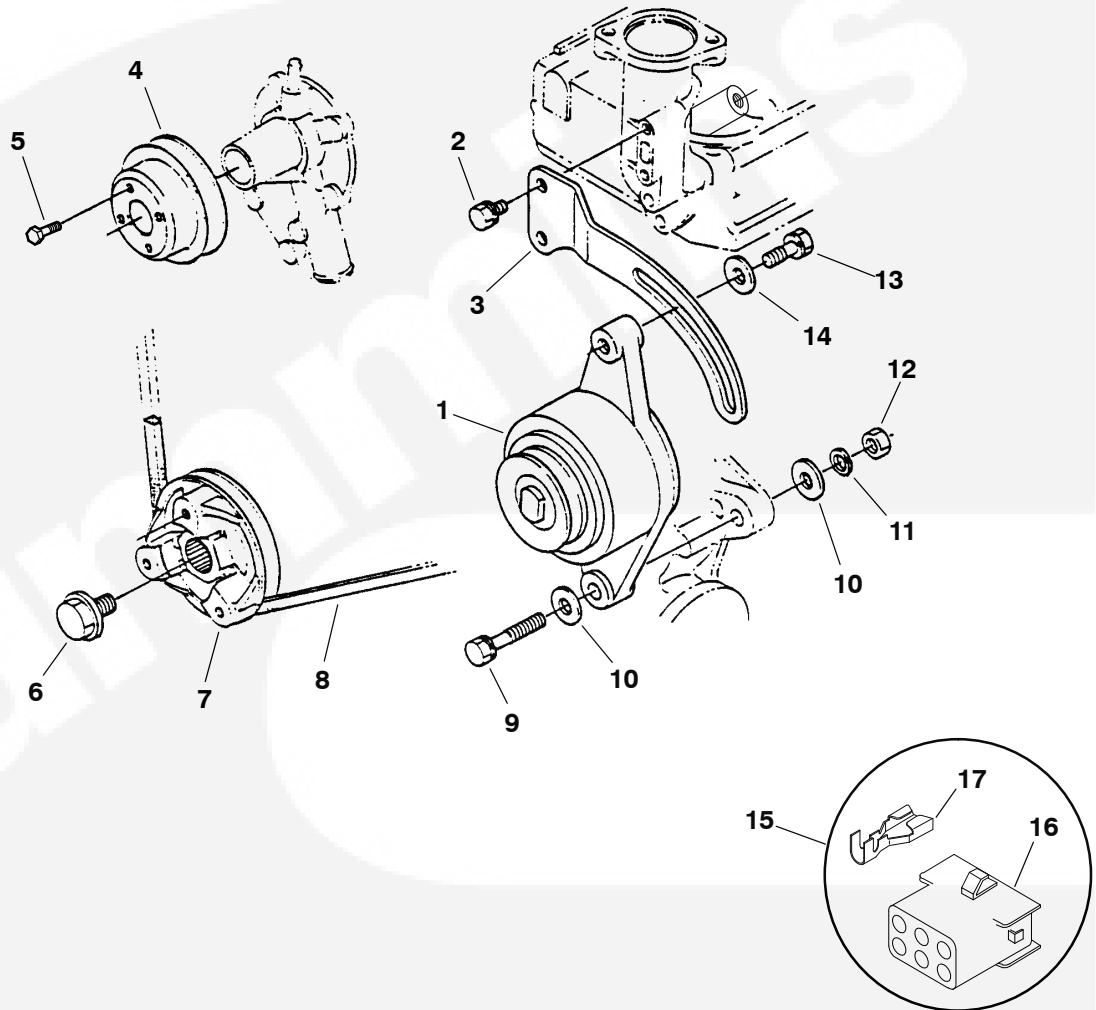
Alternator (MDKUB Spec A-F)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6627	1	Alternator
2	191-2508	1	Bracket, Alternator
3	185-2405	1	Screw, Hex Head
4	185-5765	1	Collar

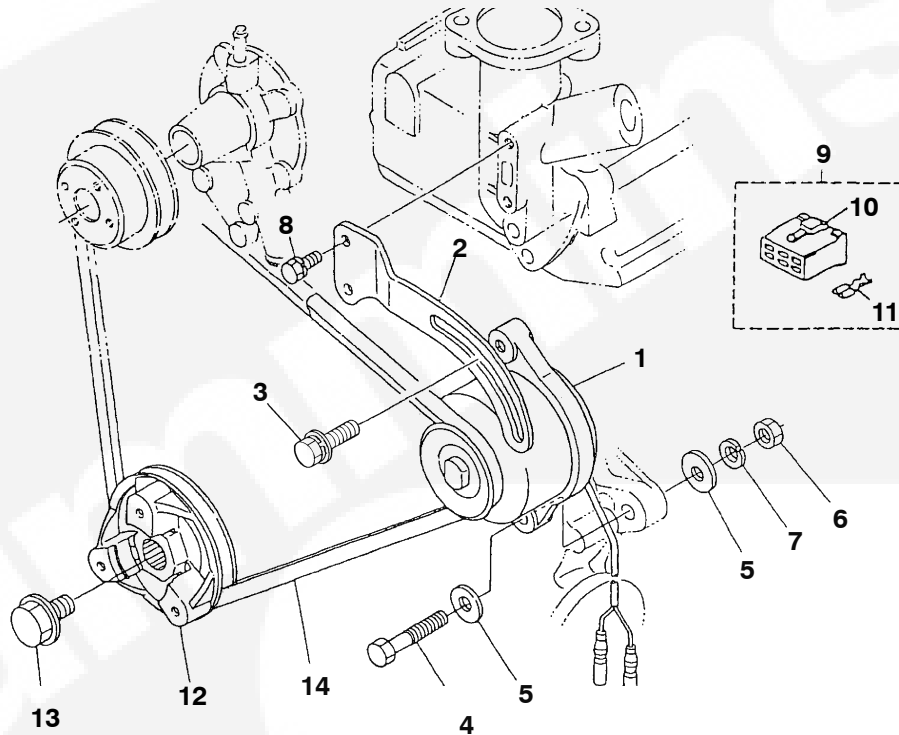
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	511-0183	1	V-Belt
6	181-9214	1	Assy, Coupler
7	185-6440	1	Connector
8	185-6345	1	Terminal

Alternator (MDKWB Spec A-G)



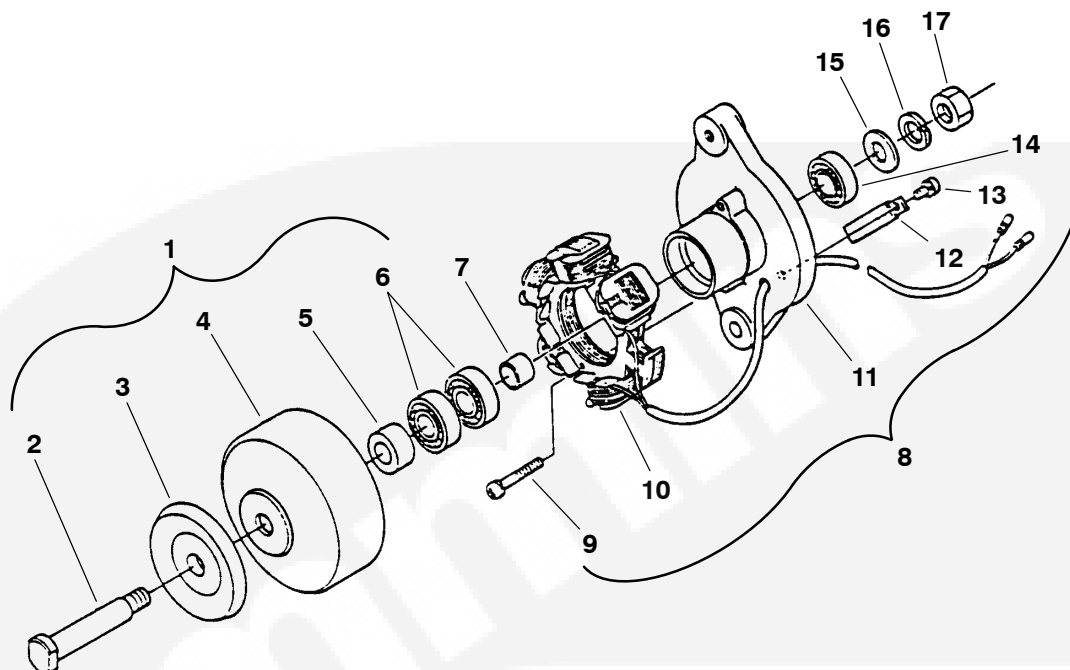
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5431	1	Alternator (G03) (See Separate Page for Components)	9	800-6062	1	Screw, Hex Head Cap (M8 x 1.25 x 45mm)
2	185-2388	2	Screw, Hex Head Cap (M6 x 16mm)	10	185-7221	2	Washer, Flat
3	185-5705	1	Bracket, Alternator	11	185-6957	1	Washer, Spring Lock
4	185-5707	1	Pulley, Fan	12	185-2366	1	Nut, Hex
5	185-2572	4	Screw, Hex Head Flange	13	185-2403	1	Screw, Hex Head Cap W/Lock Washer (M8 x 25mm)
6	185-5709	1	Screw, Hex Head Cap	14	185-6786	1	Washer, Flat
7	185-6823	1	Pulley, Drive Spec A-C	15	185-7391	1	Coupler Assy, Connector
	185-7083	1	Begin Spec D	16	185-7392	1	Connector
8	511-0183	1	Belt, Fan	17	185-6347	5	Terminal

Alternator (MDKUB Begin Spec G)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-2507	1	Alternator Page for Components)	8	185-2386	2	Screw, Hex Head Cap
2	185-5705	1	Bracket, Alternator	9	185-7391	1	Coupler Assy, Connector
3	800-6436	1	Screw, Hex Head Cap	10	185-7392	1	Connector
4	185-5706	1	Screw, Hex Head Cap W/Lock	11	185-6347	5	Terminal
5	185-7221	2	Washer, Flat	12	185-5708	1	Pulley, Fan
6	185-2367	1	Nut, Hex	13	185-5709	1	Screw, Hex Head Cap
7	185-6957	1	Washer, Spring Lock	14	511-0183	1	Belt, Fan

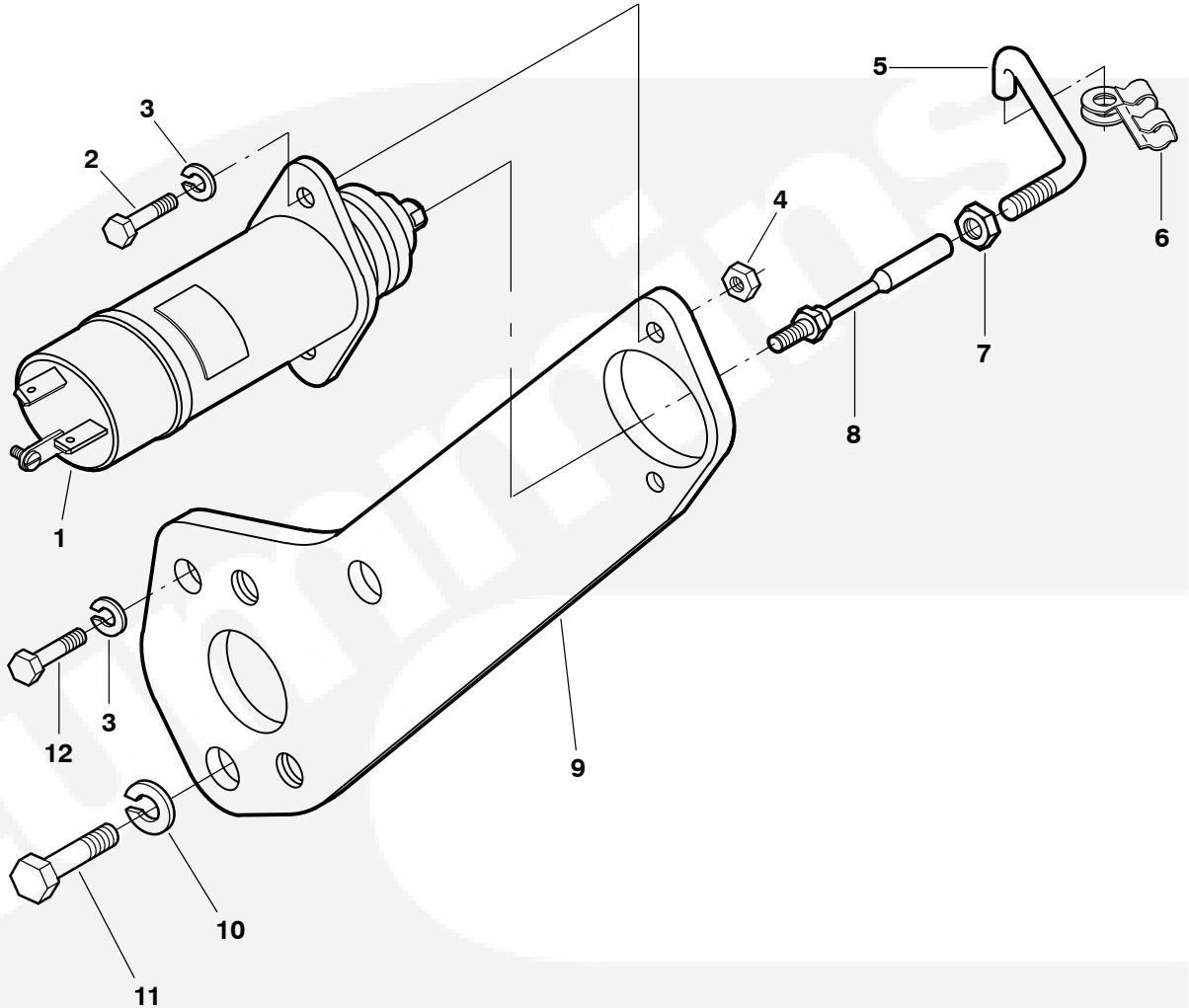
Alternator Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185-5431	1	Alternator	10	185-2272	1	+ Stator
1	185-5710	1	Rotor Assy (Includes Parts Marked #)	11	185-2268	1	+ Plate, Alternator Back
2	185-2245	1	# Shaft, Rotor	12	185-2271	1	+ Clamp, Wire
3	185-2269	1	# Pulley	13	185-2249	1	+ Screw, Round Head Machine W/Lock Washer
4	185-2267	1	# Rotor	14	185-2246	1	+ Bearing, Ball
5	185-2270	1	# Spacer	15	185-2185	1	Washer, Flat
6	185-2246	2	# Bearing, Ball	16	185-2186	1	Washer, Spring Lock
7	185-2171	1	Spacer	17	185-2181	1	Nut, Hex
8	185-5711	1	Stator Assy (Includes Parts Marked +)				
9	185-2183	2	+ Screw, Round Head Machine W/Lock Washer				

- Parts Included in Rotor Assy.
+ - Parts Included in Stator Assy.

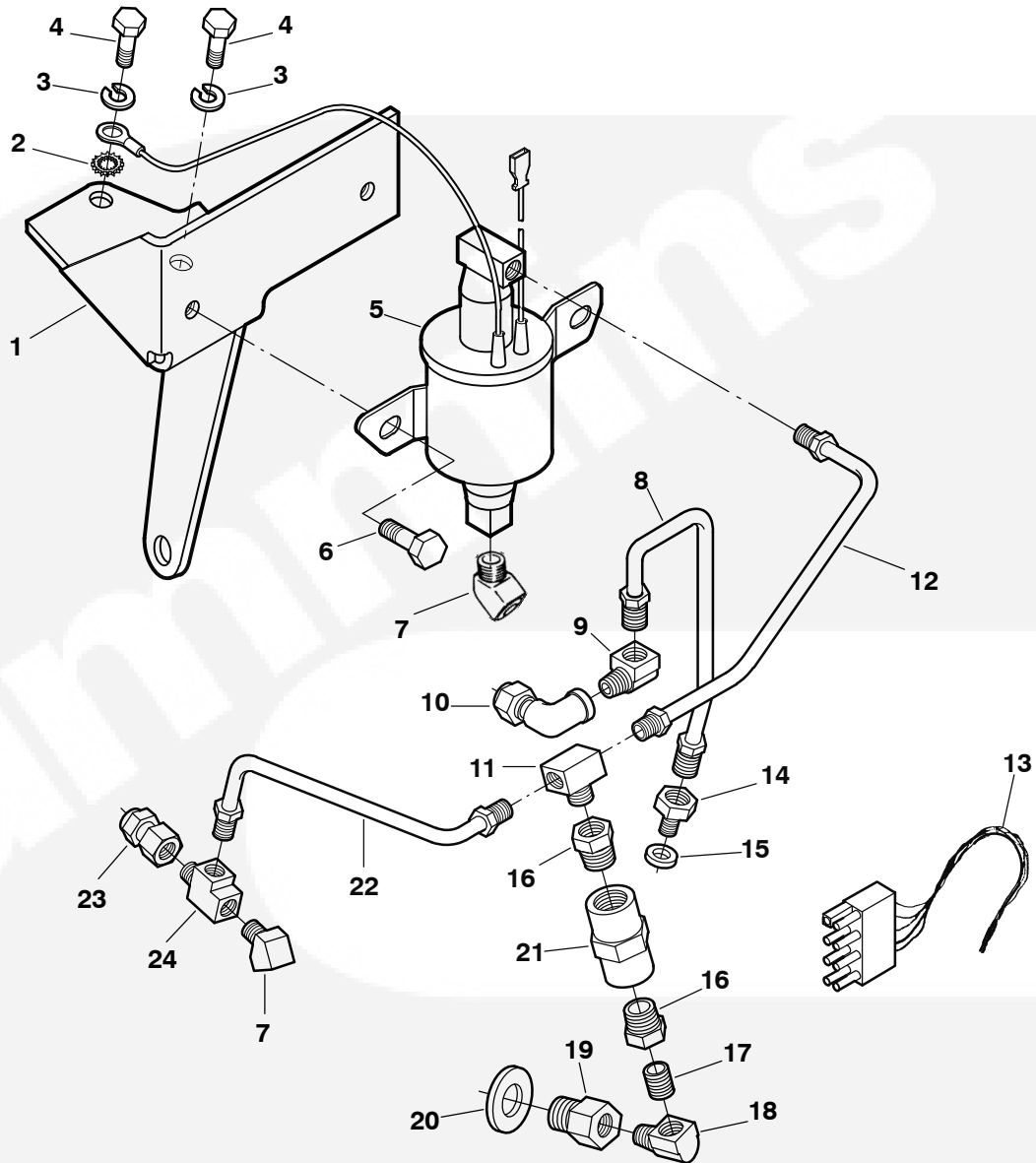
Stop Solenoid



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-2546	1	Solenoid, Stop (K12)
2	800-2034	2	Screw, Hex Head Cap (M6 x 1.0 x 20mm)
3	850-0114-53	3	Washer, Lock (M6)
4	860-2057	2	Nut, Hex (M6)
5	150-2520-02	1	Link, Stop Solenoid MDKUB
	150-2536-02	1	MDKWB
6	306-3912	1	Clip, Rod End

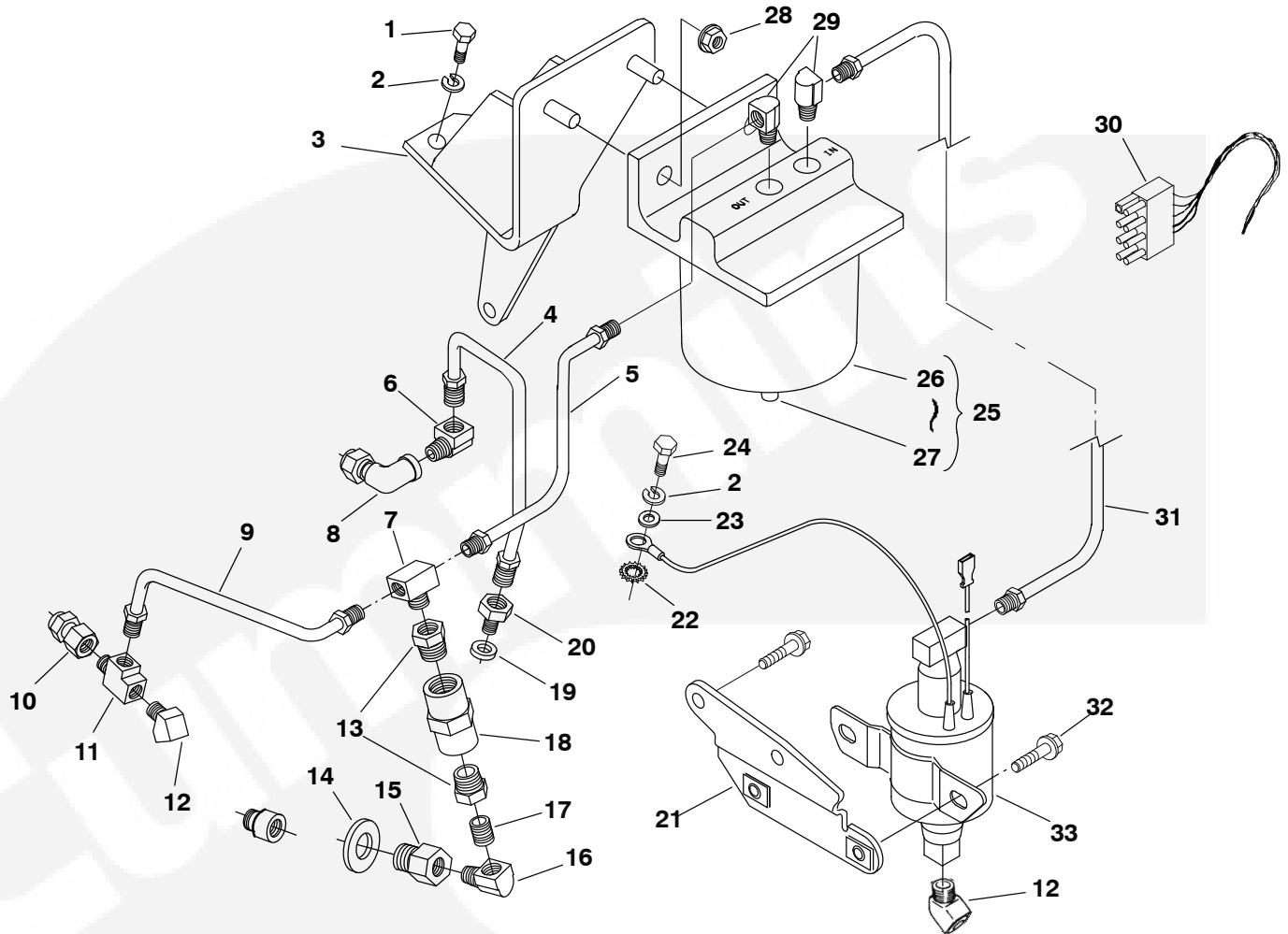
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	115-0025	3	Nut, Tappet
8	150-1733	1	Joint, Ball
9	132-0341-02	1	Bracket, Stop Solenoid
10	850-0114-54	2	Washer, Lock (M8)
11	800-6056	2	Screw, Hex Head Cap (M8 x 1.25 x 16)
12	800-6033	1	Screw, Hex Head Cap (M6 x 1 x 16mm)

Fuel Pump (MDKUB Spec A-B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-2393-02	1	Bracket, Fuel Pump	11	502-1178	1	Tee, Male Branch
2	856-0006	1	Washer, EIT Lock (1/4")	12	149-2468	1	Line, Fuel
3	850-0114-53	2	Washer, Lock (M6)	13	338-2893	1	Harness, Remote
4	800-6033	2	Screw, Hex Head Cap (M6 x 1 x 16mm)	14	502-1193	1	Connector, Inverted Male
5	149-2546	1	Pump, Fuel (E12)	15	526-0400	1	Washer, Flat
6	821-2020	2	Screw, Hex Head Cap (M5 x 0.8 x 10mm)	16	502-0029-03	2	Bushing
7	502-0053	2	Elbow, Street (45 deg.)	17	502-0046	1	Nipple, Close
8	149-2464	1	Line, Fuel Spec A	18	502-0020-01	1	Elbow, Street
	149-2479	1	Line, Fuel Spec B	19	502-1177	1	Connector, Female
9	502-0002	1	Elbow, Inverted Male	20	526-0401	1	Washer, Flat
10	502-1224	1	Elbow, 90 Female	21	502-0271	1	Coupling
				22	149-2469	1	Line, Fuel
				23	502-1179	1	Connector, Tube
				24	502-0001	1	Tee, Pipe Street

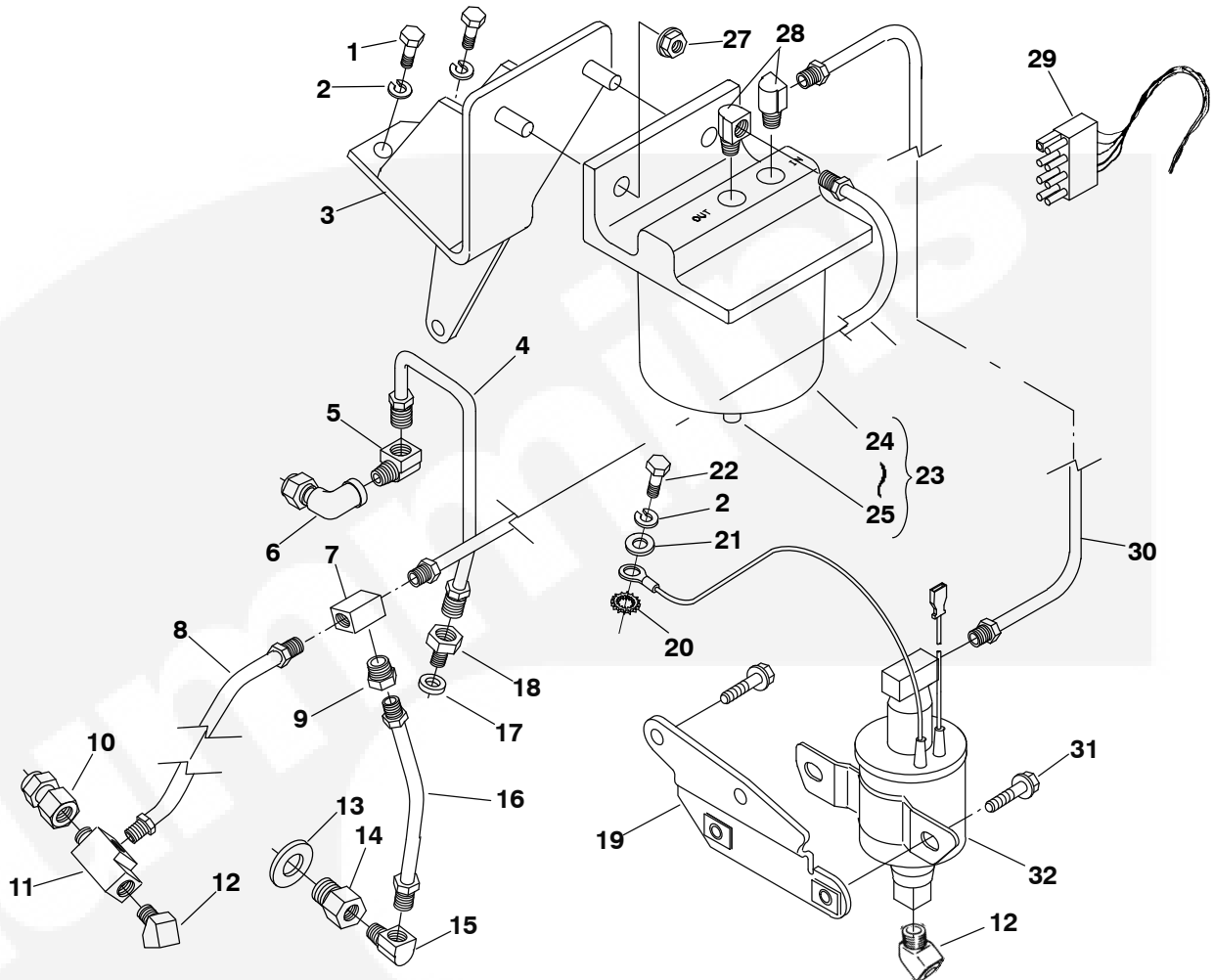
Fuel Pump (MDKUB Begin Spec C)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-6033	2	Screw, Hex Head Cap (M6 x 1 x 16mm)
2	850-0114-53	3	Washer, Lock (M6) Begin Spec E
3	149-2594-03	1	Bracket, Fuel Filter (Begin Spec E)
4	149-2464	1	Line, Fuel Spec A
	149-2479	1	Begin Spec B
5	149-2468	1	Line, Fuel Spec A-D
	149-2595	1	Begin Spec E
6	502-0002	1	Elbow, Inverted Male
7	502-1178	1	Tee, Male Branch
8	502-1224	1	Elbow, 90 Female
9	149-2469	1	Line, Fuel
10	502-1179	1	Connector, Tube
11	502-0001	1	Tee, Pipe Street
12	502-0053	2	Elbow, Street (45 deg.)
13	502-0029-03	2	Bushing, Reducer
14	526-0065	1	Washer, Flat
15	502-1177	1	Connector, Female
16	502-0020-01	1	Elbow, Street
17	502-0046	1	Nipple, Close

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
18	502-0271	1	Coupling
19	526-0400	1	Washer, Flat
20	502-1193	1	Connector, Inverted Male
21	149-2393-02	1	Bracket, Fuel Pump Spec A-D
	149-2593-03	1	Begin Spec E
22	856-0006	1	Washer, EIT Lock (1/4")
23	526-0018	1	Washer, Flat (M6)
24	800-2045	1	Screw, Hex Head Cap (M6 x 75mm) (Begin Spec E)
25	149-2100	1	Filter, Fuel (Includes Element, Drain Plug and Base) (Begin Spec E)
26	A026K278	1	Element, Fuel Filter
27	502-0028	1	Plug, Drain
28	870-2055	2	Nut, Lock Flange (M8 x .8) (Begin Spec E)
29	502-0041	2	Elbow, Inverted Male (Begin Spec E)
30	338-2893	1	Harness, Remote (Spec A, B)
31	149-2596	1	Line, Fuel (Begin Spec E)
32	821-2020	2	Screw, Hex Head Cap (M5 x 0.8 x 10mm)
33	149-2546	1	Pump, Fuel (E12)

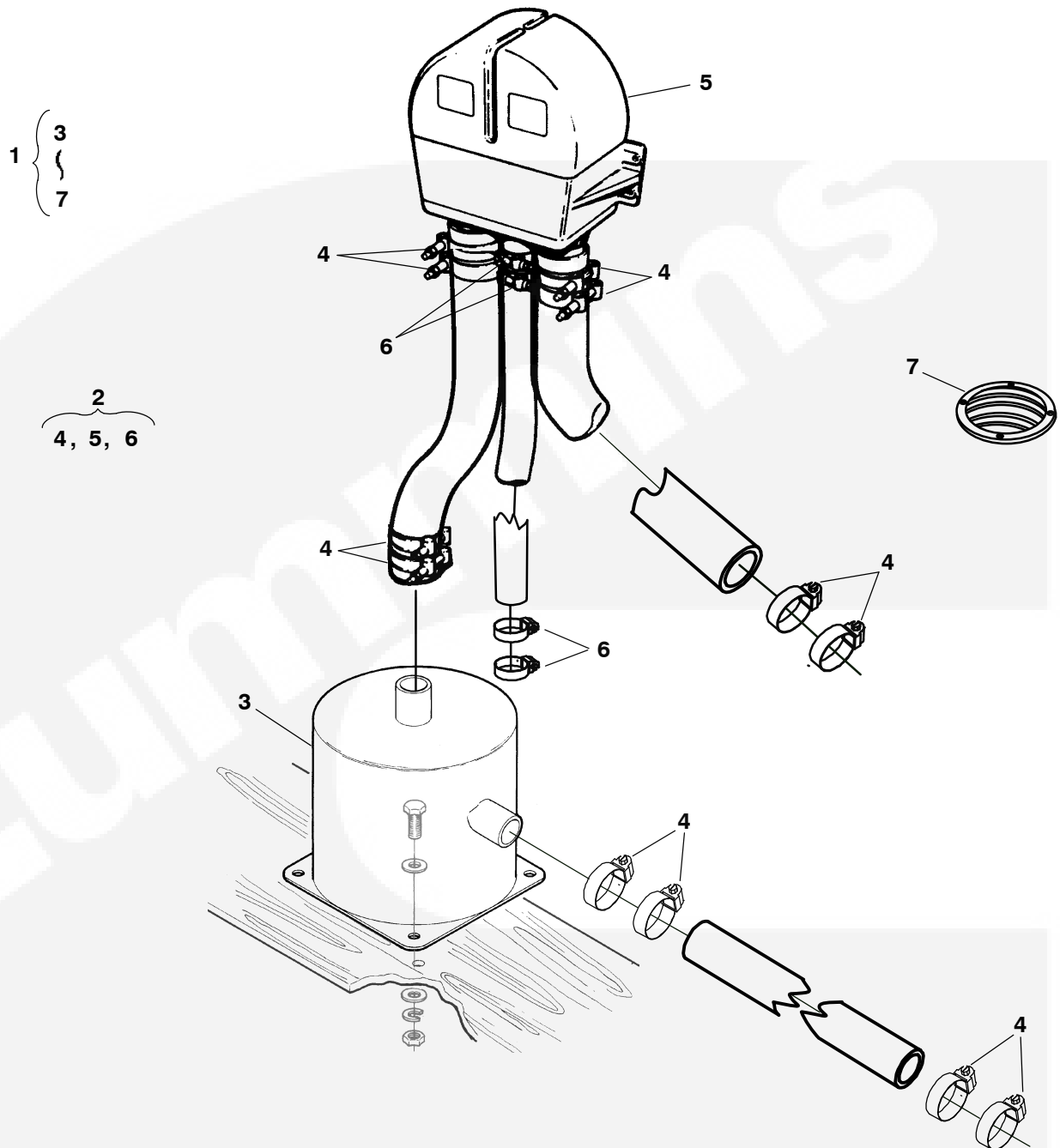
Fuel Pump (MDKWB Begin Spec C)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-6033	2	Screw, Hex Head Cap (M6 x 1 x 16mm)
2	850-0114-53	2	Washer, Lock (m6)
3	149-2594-03	1	Bracket, Fuel Filter (Begin Spec E)
4	149-2479	1	Line, Fuel
5	502-0002	1	Elbow, Inverted Male
6	502-1224	1	Elbow, 90 Female
7	502-0243	1	Tee, Female Branch
8			Line, Fuel
	149-2471	1	Spec A-D
	149-2598	1	Begin Spec E
9	502-0106	1	Connector, Male
10	502-1179	1	Connector, Tube
11	502-0001	1	Tee, Pipe Street
12	502-0053	2	Elbow, Street (45 deg.)
13	526-0065	1	Washer, Flat
14	502-1177	1	Connector, Female
15	502-0246	1	Elbow, 90 Fuel
16			Line, Fuel
	149-2470	1	Spec A-D
	149-2597	1	Begin Spec E
17	526-0400	1	Washer, Flat

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
18	502-1193	1	Connector, Inverted Male
19			Bracket, Fuel Pump
	149-2393-02	1	Spec A-D
	149-2593-03	1	Begin Spec E
20	856-0006	1	Washer, EIT Lock
21	526-0018	1	Washer, Flat (M6)
22	800-2045	1	Screw, Hex Head Cap (M6 x 75mm) (Begin Spec E)
23	149-2100	1	Filter, Fuel (Includes Element, Drain Plug and Base) (Begin Spec E)
24	A026K278	1	Element, Fuel Filter
25	502-0028	1	Plug, Drain
26	149-2467	1	Line, Fuel
27	870-2055	2	Nut, Lock Flange (M8 x .8) (Begin Spec E)
28	502-0041	2	Elbow, Inverted Male (Begin Spec E)
29	338-2893	1	Harness, Remote Plug
30	149-2596	1	Line, Fuel (Begin Spec E)
31	821-2020	2	Screw, Hex Head Cap (M5 x 0.8 x 10mm)
32	149-2546	1	Pump, Fuel (E12)

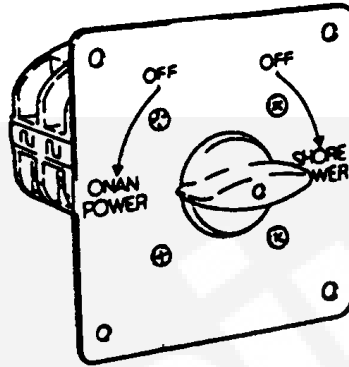
Water Separator/Muffler



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-3217	1	Kit, Muffler/Separator (Includes Parts Marked *)	5	155-3216	1	+*Separator, Water (2")
2	155-3216	1	Kit, Water Separator (Includes Parts Marked •)	6	503-1139	4	+*Clamp, Hose (1-1/2")
3	155-2029	1	*Muffler, Marine	7	155-1002	1	*Strainer, Water Pickup
4			Clamp, Hose (2")				
	503-1142	10	* Muffler/Separator Kit				
	503-1142	4	+ Separator Kit				

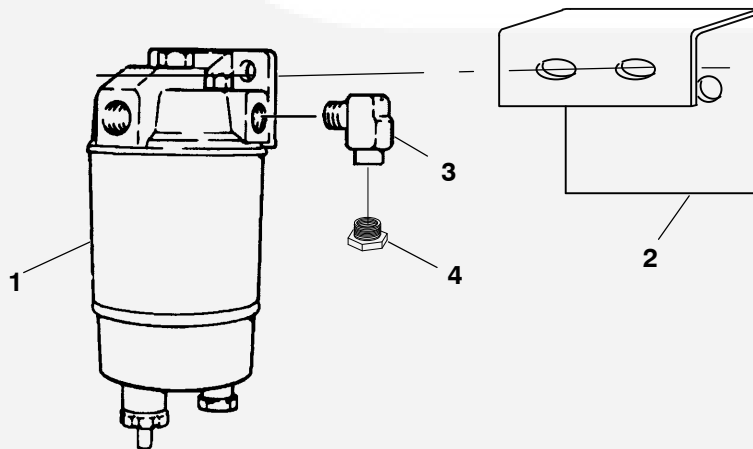
* - Parts Included in Muffler/Separator Kit.
+ - Parts Included in Water Separator Kit.

Manual Transfer Switch



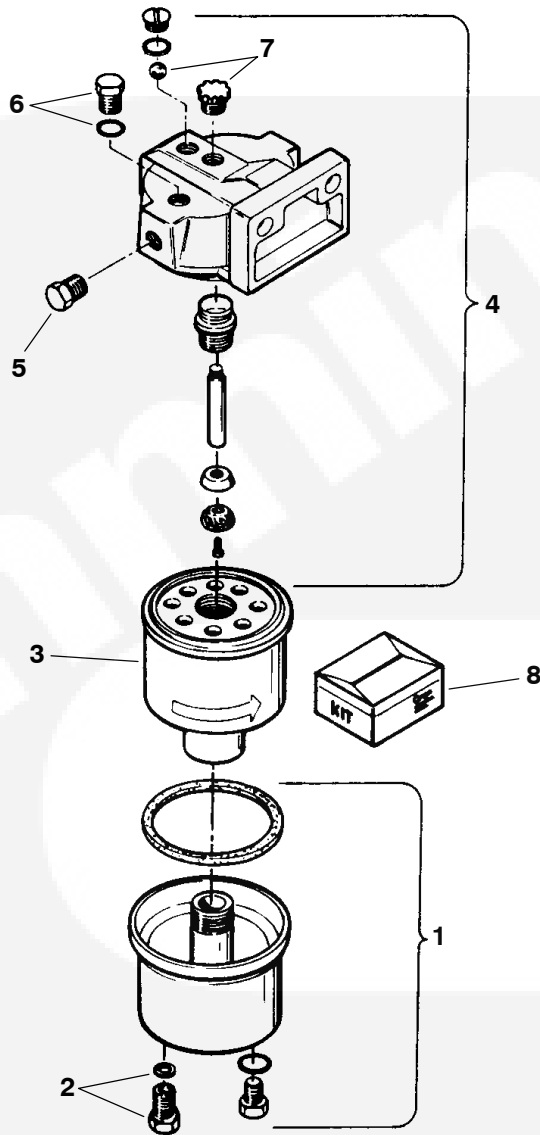
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	308-0269	1	Switch, On Shore/Off Shore Rotary (63A, 600V) 120V (2 Wire)
	308-0270	1	120/240V (3 Wire)

Remote Water Separator



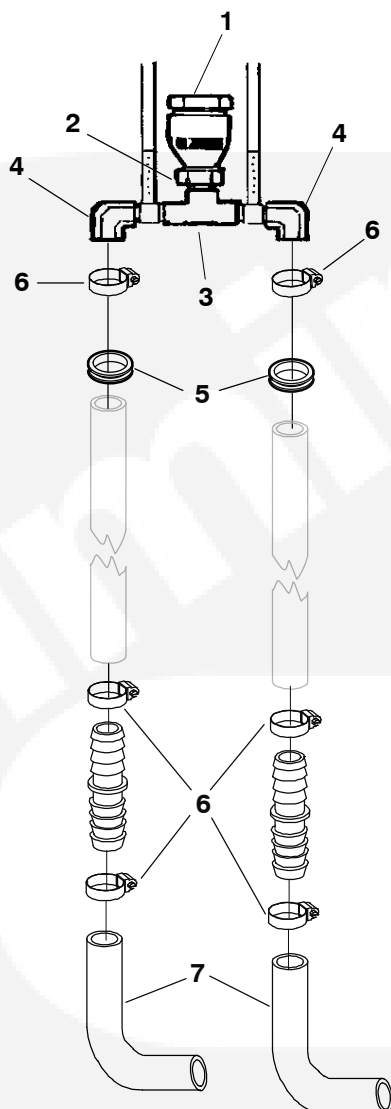
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	149-2073	1	Kit, Remote Fuel/Water Separator	2	149-2041-03	1	Bracket, Separator Mounting
1	149-1908-05	1	Separator, Fuel/Water (See Separate Page for Components)	3	502-0020-01	1	Elbow, Street 90° (1/4 NPT)
				4	502-0029	1	Bushing, Pipe (1/4" to 1/8")

Remote Water Separator Components



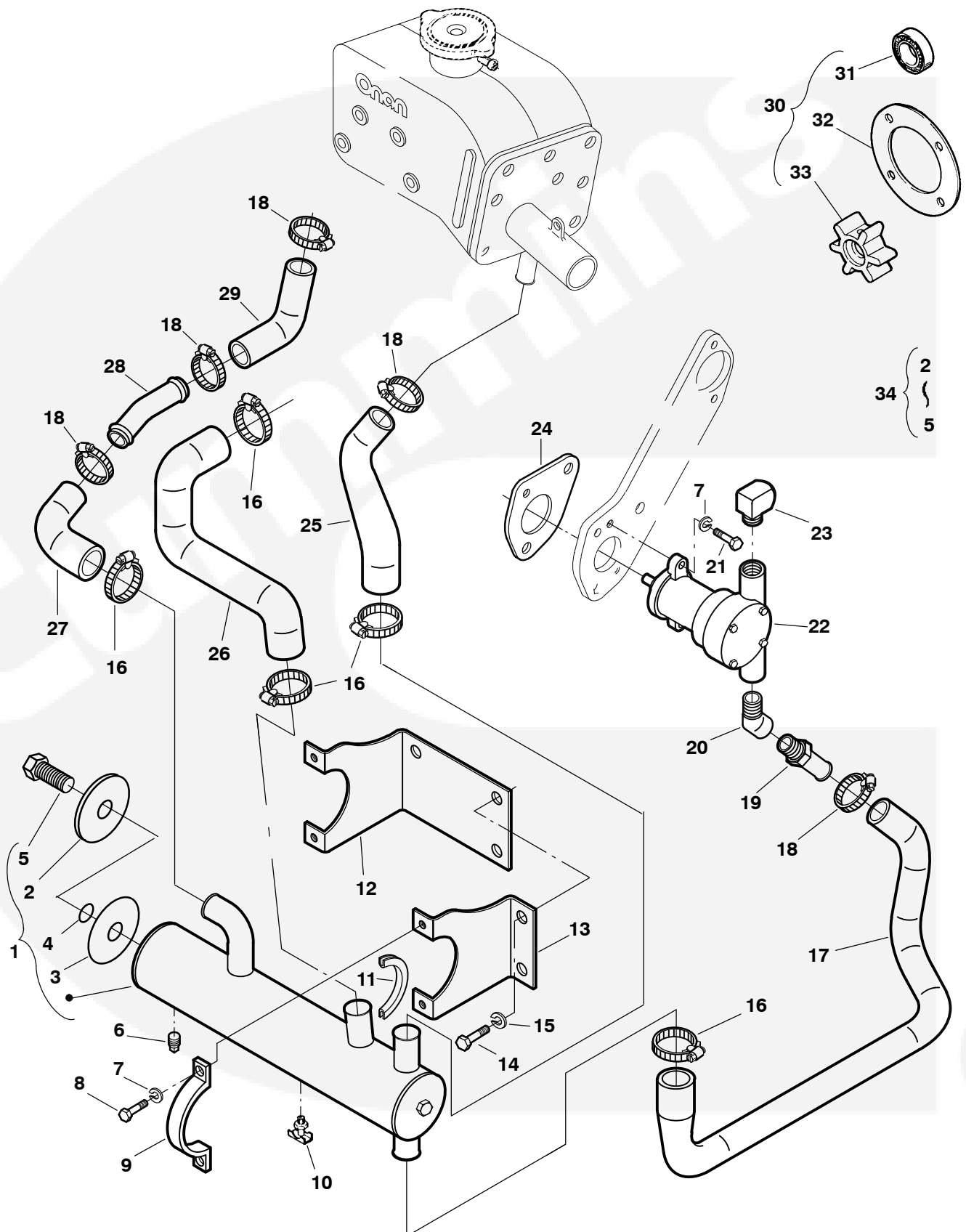
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-1908-05	1	Separator, Water	6	149-1952	1	Plug, Vent (Includes O-Ring)
	149-2046	1	Kit, Metal Bowl Replacement (Includes Plug, O-Rings and Drain Assy)	7	149-2047	1	Pump Assy (Includes Plunger, Retainer, Shaft, Check Ball, Knob and Screw)
2	149-1953	1	Drain Assy (Includes Knob and Seal)	8	149-2045	1	O-Ring Kit (Includes Seal and Plunger)
3	149-1914-01	1	Element (Includes Seals)				
4	149-1949	1	Head Assy, Replacement (Includes Vent Plug, O-Rings, Seal, Cap, Tube and Pump Assy)				
5	502-0153	1	Plug, Hex (1/4")				

Vacuum Relief Valve



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-0863-02	1	Kit, Siphon Break				
1	504-0062	1	Valve, Vacuum Relief	5	508-0309	2	(3/8 Npt X 5/8)
2	502-0270	1	Adapter, Pipe (3/8" to 1/2")	6	503-0977	7	Grommet
3	502-0090	1	Tee (3/8")	7	503-1687-03	2	Clamp, Hose (#10)
4	502-0942	2	Elbow, 90° Hose				Elbow, Hose (5/8")

Heat Exchanger

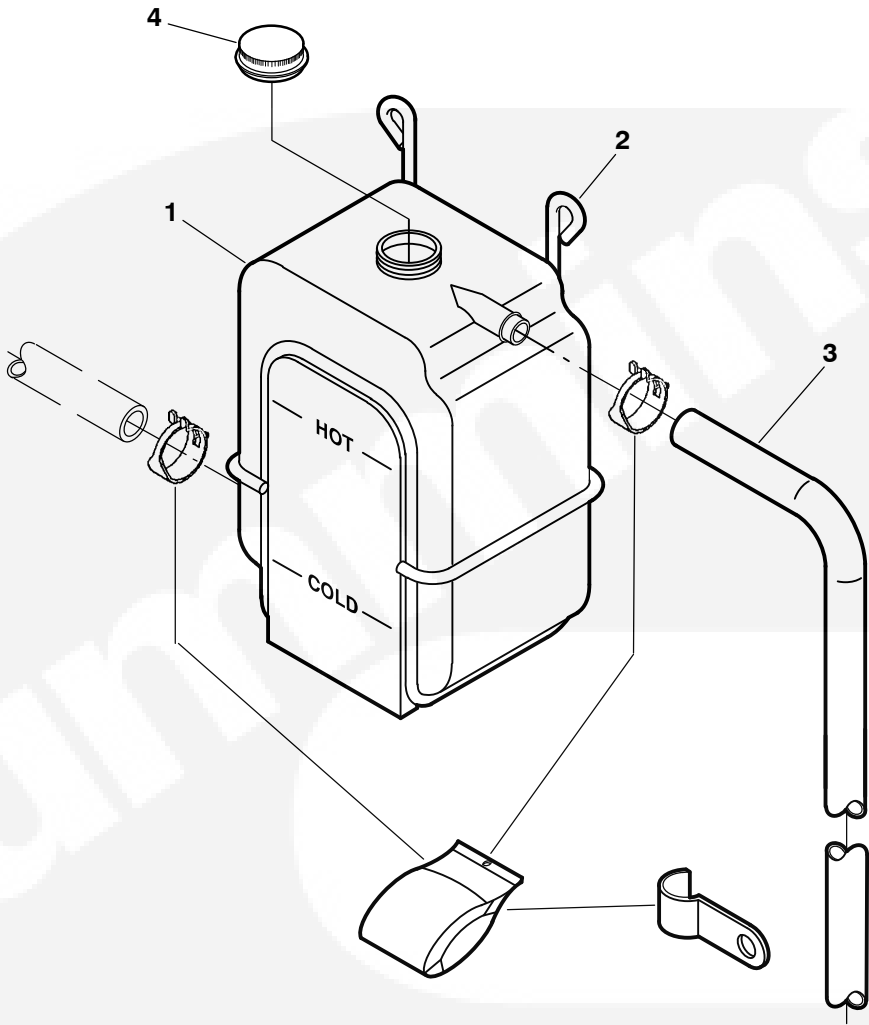


Heat Exchanger

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Exchanger, Heat (Includes Cap, Gasket, O'Ring and Screw)	22	132-0336	1	Pump, Sea Water (Includes the following:
	130-4983-02	1	MDKUB		132-0299	2	Ring, Retaining
	130-4984-02	1	MDKWB		132-0308	1	Seal, Lip
2	130-5169	1	*Cap, Heat Exchanger		132-0298	1	Washer,
3	130-5170	1	*Gasket, Heat Exchanger		132-0295	1	Pin
4	509-0351	1	*O'Ring		132-0297	1	Plate, Wear
5	800-0317	1	*Screw, Hex Head (5/16-18 x 3/4")		132-0309	1	Gasket
					132-0306	1	Cover, End
6	502-0153	1	Plug, Square Head (1/4)		132-0310	1	Impeller
7	850-0114-53	6	Washer, Lock (M6)	23	502-1180	1	Elbow, Brass Street (90 deg.)
8	800-6033	4	Screw, Hex Head Cap (M6 x 1 x 16mm)	24	132-0342	1	Gasket, Water Pump
				25	503-1858	1	Hose, Cooling
9	130-0632	2	Strap, Heat Exchanger	26			Hose, Cooling
10	504-0005	1	Cock, Drain (1/8 - 27)		503-1844	1	MDKUB
11	508-0139	2	Grommet, Heat Exchanger		503-1846	1	MDKWB
12			Bracket, Heat Exchanger	27	503-1850	1	Hose, Cooling
	130-4071-02	1	MDKUB	28	130-4073-02	1	Tube, Cooling
	130-4072-02	1	MDKWB	29	503-1841	1	Hose, Cooling
13	130-4070-02	1	Bracket, Heat Exchanger	30	132-0311	1	Repair Kit, Water Pump (Includes Seal, Gasket and Impeller)
14	800-3004	3	Screw, Hex Head Cap (M10 x 1.25 x 20mm)				
15	850-0114-55	3	Washer, Lock (M10)	31	132-0308	1	Seal
16	503-1137	5	Clamp, Hose	32	132-0309	1	Gasket
17			Hose, Cooling	33	132-0310	1	Impeller
	503-1859	1	MDKUB	34	130-5176	1	Kit, Heat Exchanger Cap (Includes Parts Marked *)
	503-1860	1	MDKWB				
18	503-1136	5	Clamp, Hose (MDKWB)				
19	502-0943	1	Connector, Hose				
20	502-1173	1	Elbow, Street (45 deg.)				
21	800-2034	2	Screw, Hex Head Cap (M6 x 1 x 20mm)				

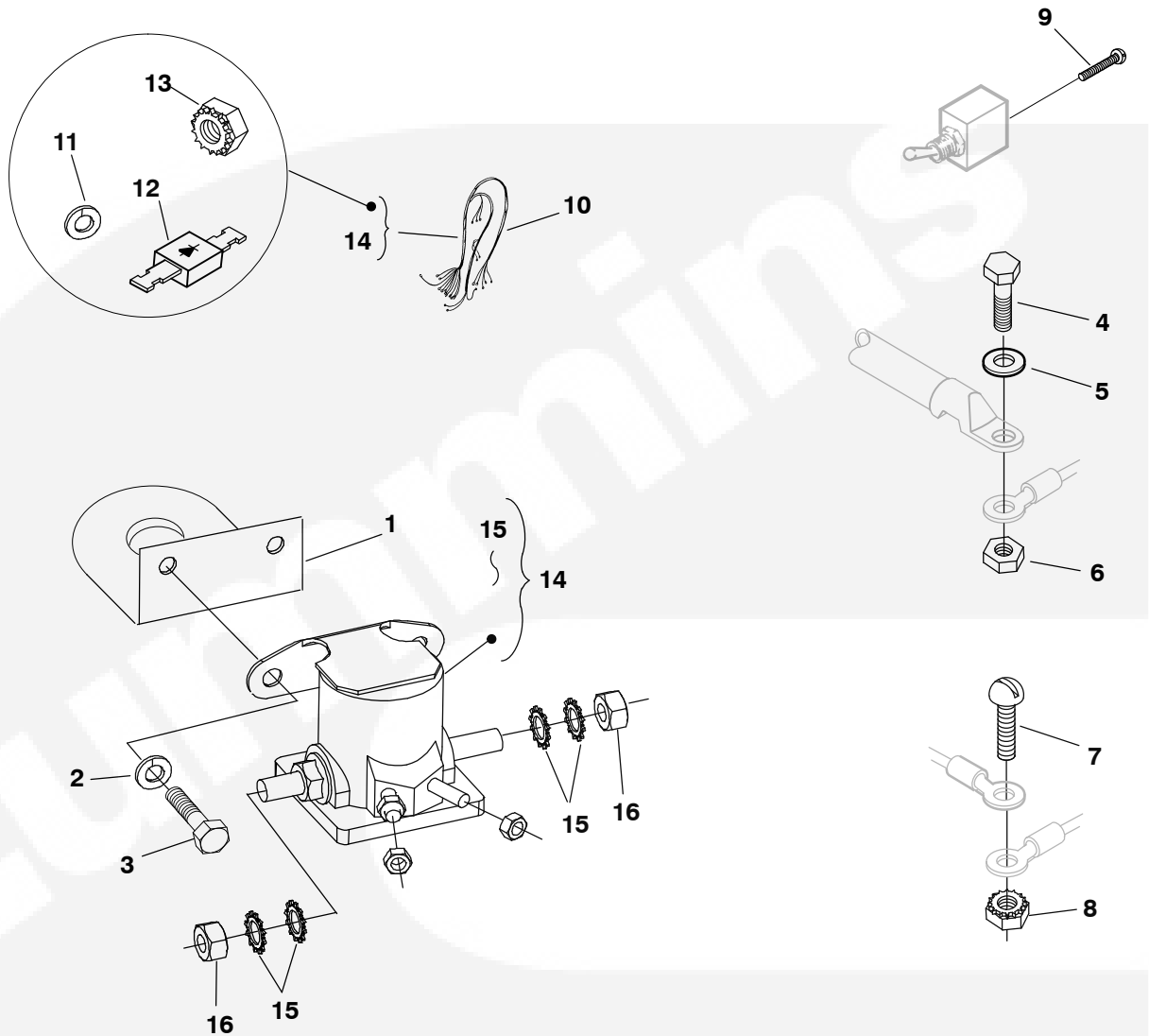
* - Parts Included in Heat Exchanger Cap Kit.

Coolant Recovery



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

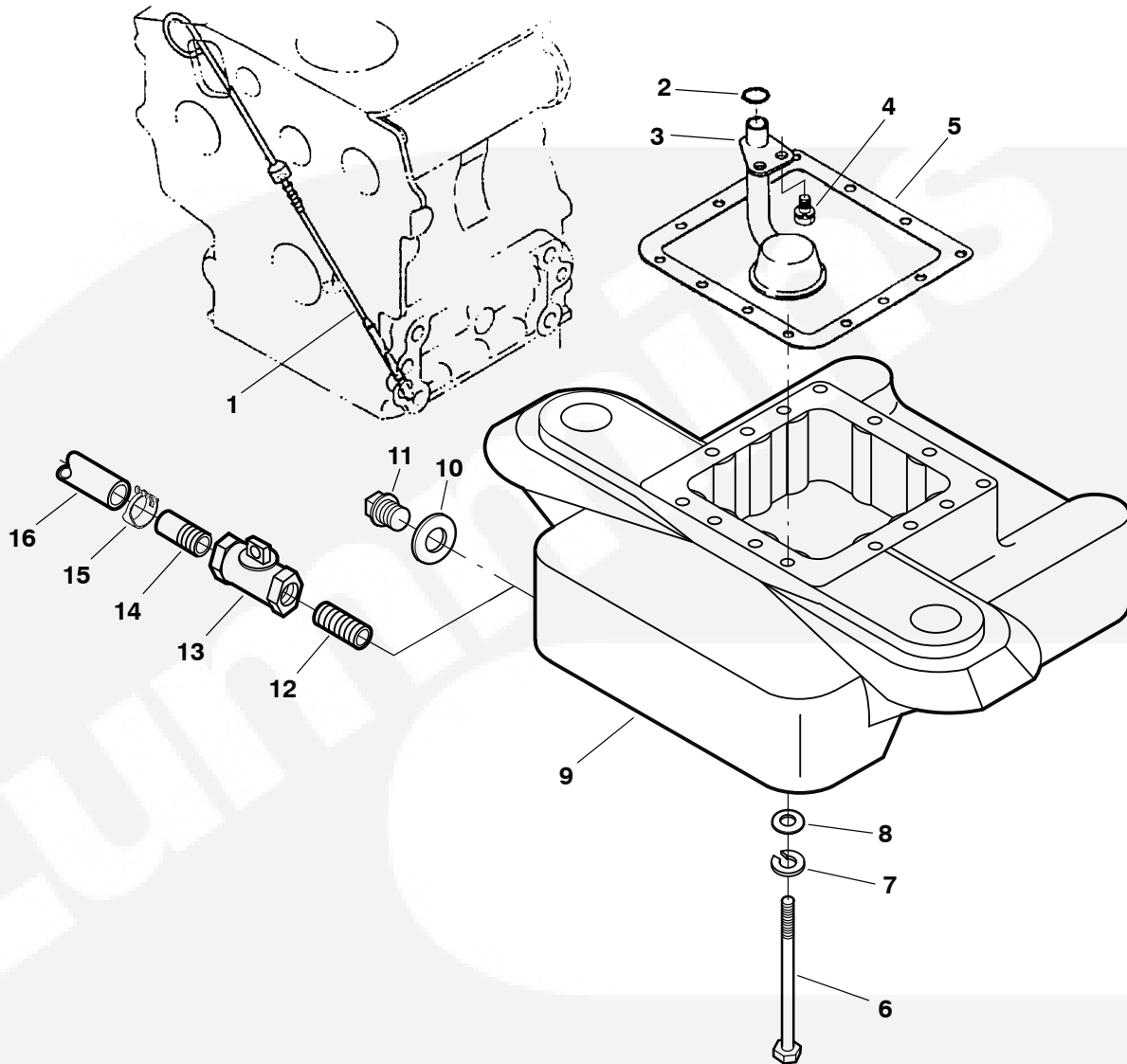
Isolated Ground



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4960	1	Kit, Isolated Ground
1	191-2224-02	1	Bracket, Solenoid
2	850-0040	2	Washer, Lock (1/4")
3	800-0005	2	Screw, Hex Head Cap (1/4-20 x 1")
4	821-0014	1	Screw, Lock Head (5/16-18 x 1 1/2")
5	526-0122	4	Washer, Flat (5/16")
6	870-0257	1	Nut, Self Lock (5/16")
7	813-0100	1	Screw, Round Head Machine (#10 x 1 1/2")
8	870-0131	1	Nut, ET Hex
9	812-0060	1	Screw, Round Head Machine

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	338-3518	1	Harness, Isolated Ground (Includes Washers, Rectifier, Nuts and Relay)
11	850-0045	2	Washer, Lock (5/16")
12	357-0030	2	Rectifier, Silicon
13	870-0131	2	Nut, ET Hex (10-32)
14	307-1617	1	Relay, Solenoid (Includes Washers and Nuts)
15	853-0016	8	Washer, ET Lock
16	862-0026-30	1	Nut, Hex (5/16)

Oil Base (MDKUB and MDKWB Spec A-G)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
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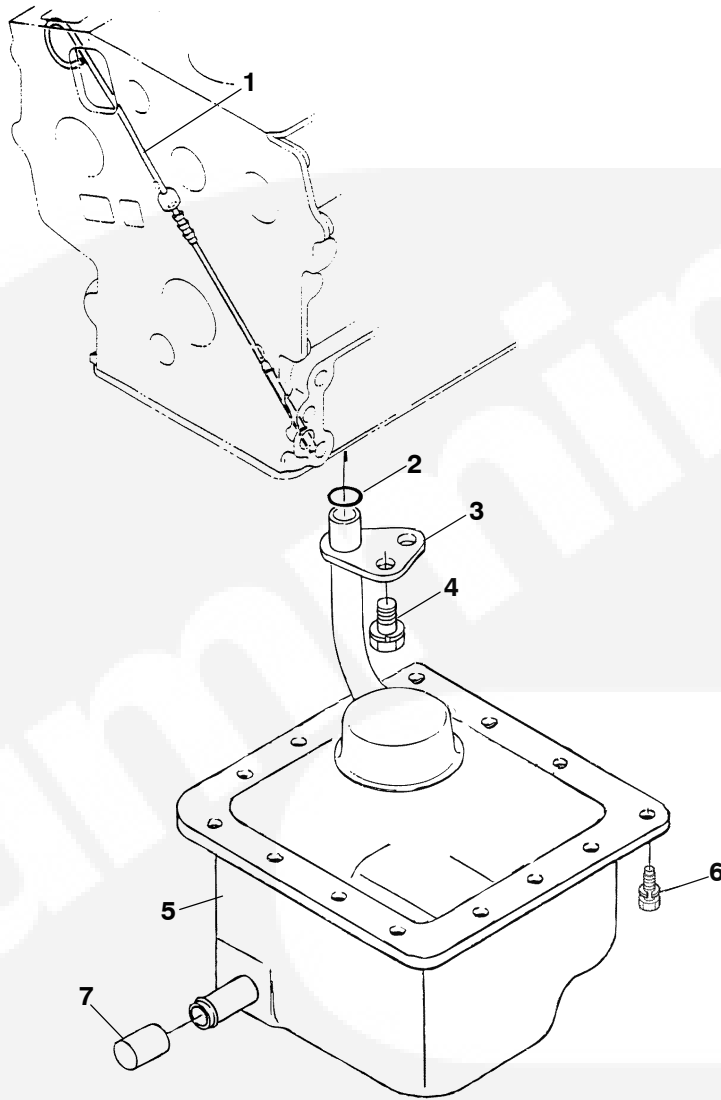
1	123-1988	1	Dipstick, Oil
2	185-3078	1	O-Ring
3	185-5496	1	Tube, Oil Pickup
4			Screw, Hex Head Cap
	185-6956	1	Spec A-C
	185-6956	1	Begin Spec D
5			Gasket, Oil Pan
	185-5493	1	* MDKUB
	185-6818	1	* MDKWB
6			Screw, Hex Head Cap (M6 x 1 x 110mm)
	800-2048	14	MDKUB
	800-2048	18	MDKWB
7			Washer, Zinc Plated Lock (M6)
	850-0114-53	14	MDKUB
	850-0114-53	18	MDKWB
8			Washer, Zinc Plated Flat (M6)
	526-0018	14	MDKUB
	526-0018	18	MDKWB

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
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9			Base, Oil
	102-1439	1	MDKUB
	102-1440	1	MDKWB
10	185-5495	1	Seal, Oil
11	185-6046	1	Plug, Drain
12	505-0100	1	Nipple, Close (1/2 x 1 1/2")
13	504-0194	1	Valve, Shutoff (1/2")
14	505-1483	1	Nipple, Half (1/2 NPT x 7/8")
15	503-0183	1	Clamp, Hose Drain
16	503-0191	1	Hose, Drain (305mm Long)

* - 518-0530-01 Thread Sealant May be Used Instead of Gaskets.

Oil Base (MDKUB Begin Spec H)

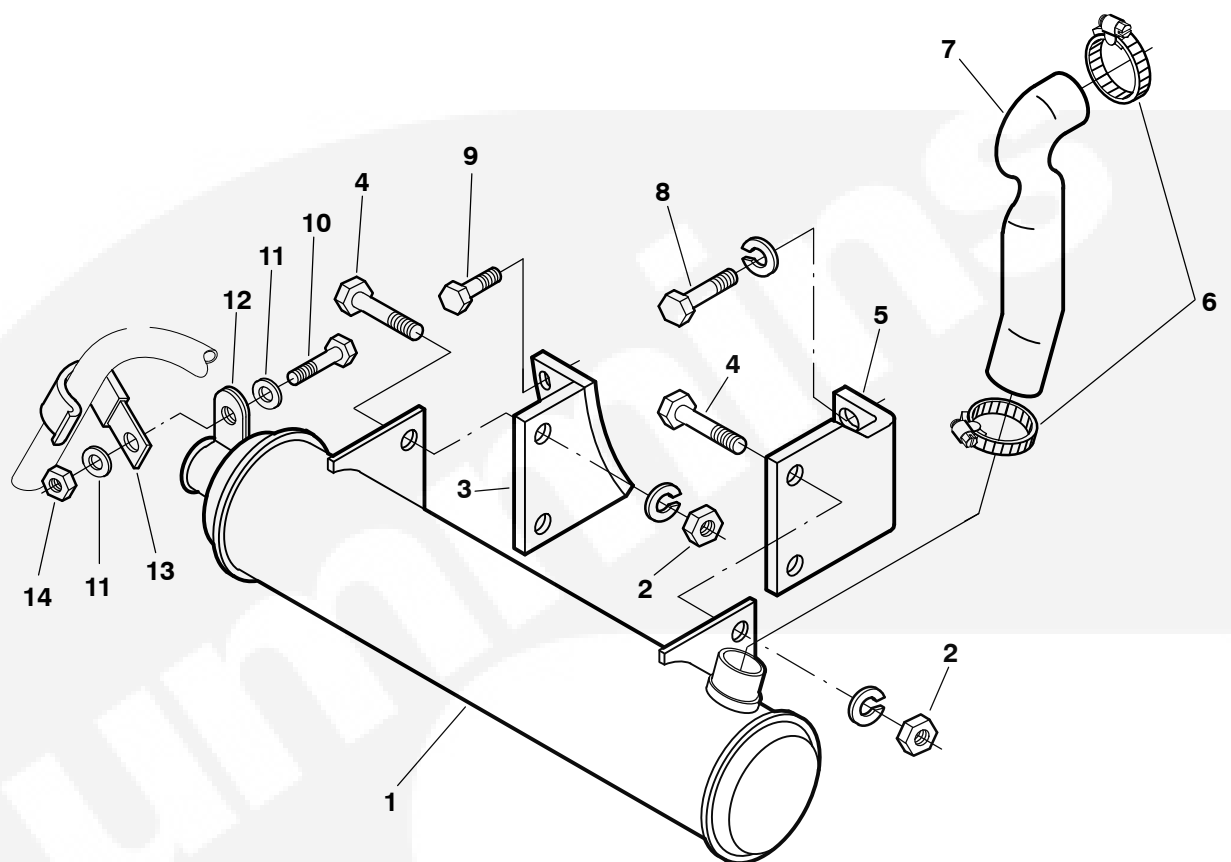


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5497	1	Dipstick, Oil
2	185-7421	1	O-Ring
3	181-9164	1	Tube, Oil Pickup
4	185-6956		Screw, Hex Head Cap
5	102-1568	1	Pan, Oil

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	800-6505	14	Screw, Hex Head Cap
7	505-2530	1	Plug

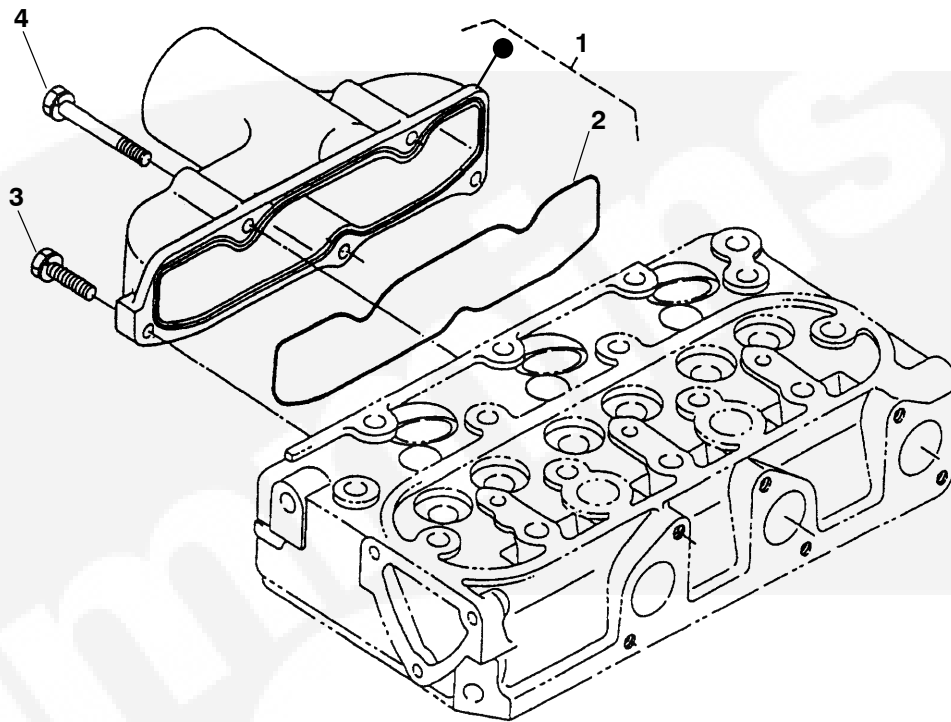
* - 518-0530-01 Thread Sealant May be Used Instead of Gaskets.

Air Silencer



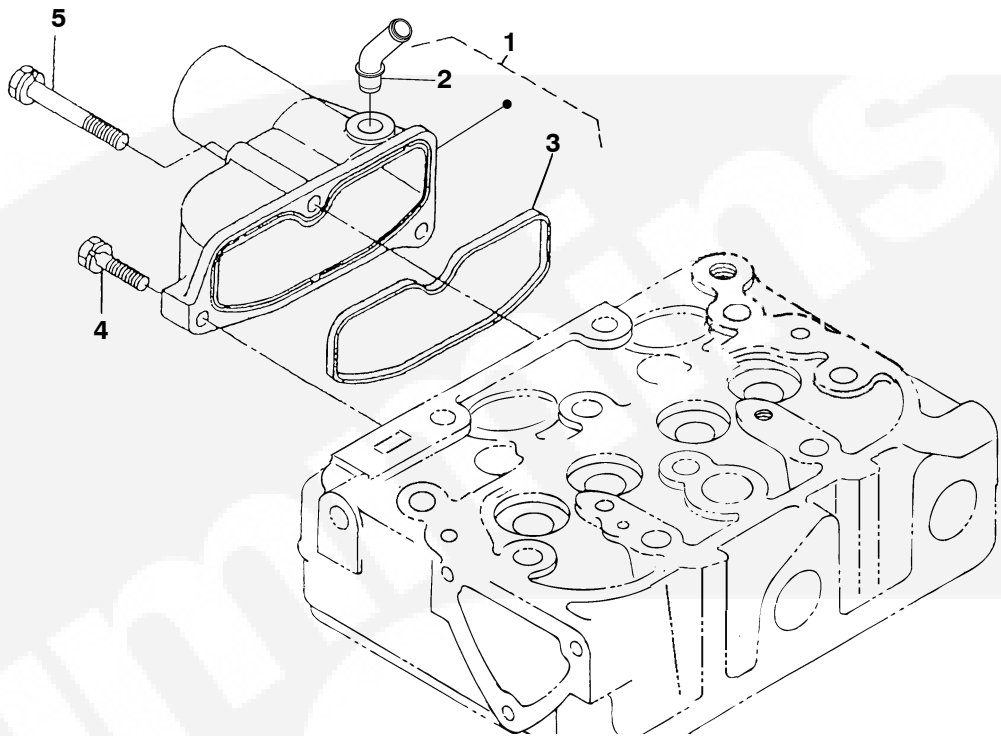
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-2779-01	1	Muffler, Air Intake MDKUB	9	815-0261	3	(M10 x 1.25 x 20mm) Screw, Hex Washer Thread Forming (M6 x 1 x 12.7mm)
	155-2779-02	1	MDKWB	10	800-2057	1	Screw (M8 x 1.25 x 20mm) (Unhoused Units)
2	860-2059	4	Nut, Hex (M10 x 1.5mm)	11	526-2100	2	Washer, Flat (Unhoused Units)
3	140-2755-02	1	Bracket	12	332-1024	1	Clamp (Unhoused Units)
4	800-6085	4	Screw, Hex Head Cap (M10 x 1.5 x 30mm)	13	518-0515	1	Clamp (Unhoused Units)
5	140-2756-02	1	Bracket	14	750-1006	1	Nut (M8 x 1.25) (Unhoused Units)
6	503-1872-02	2	Clamp, Hose				
7	503-1893	1	Hose, Intake				
8	800-3004	2	Screw, Hex Head Cap				

Intake Manifold



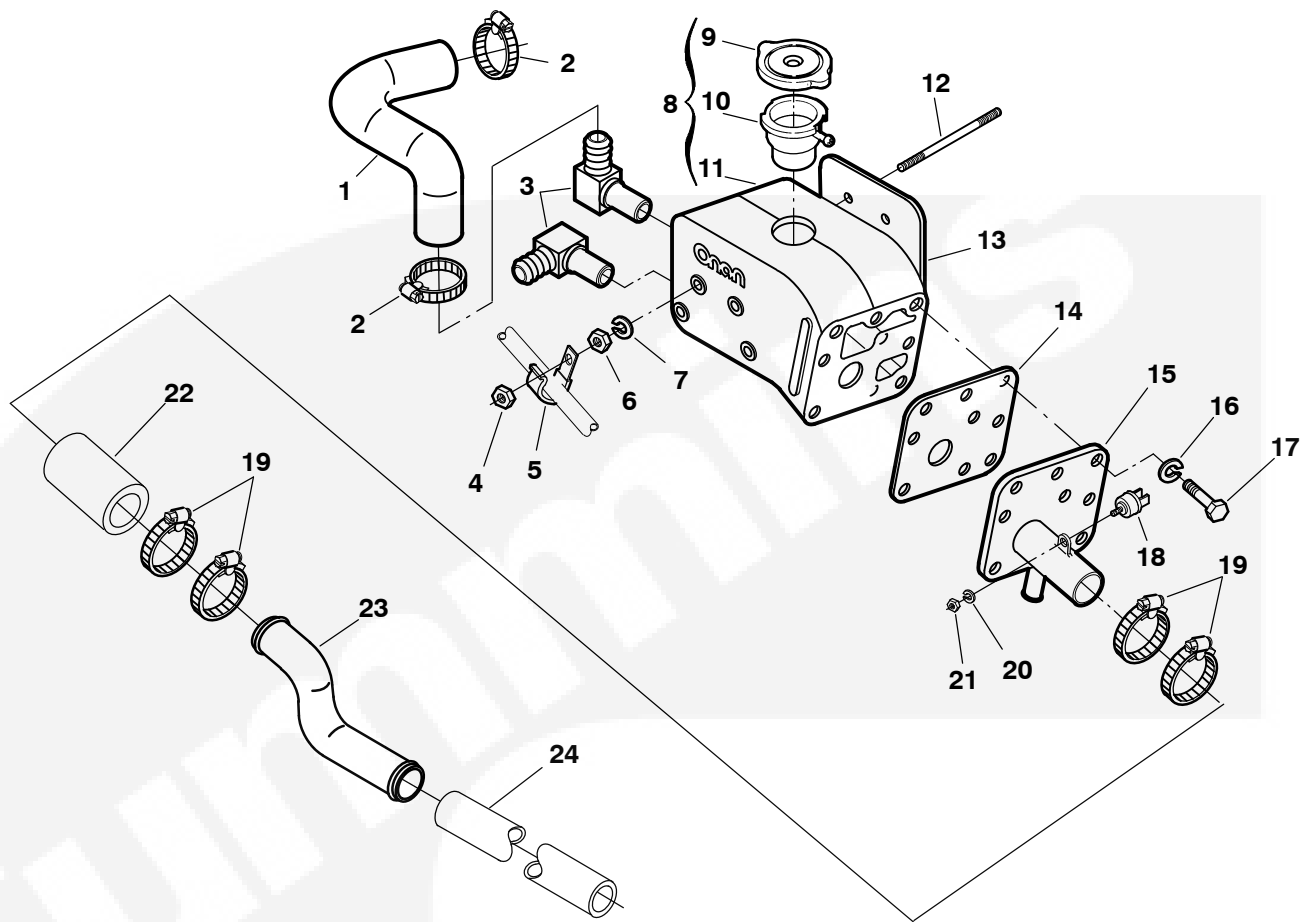
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Manifold, Intake (Includes Gasket)	3	185-2389	2	Screw, Hex Head (M6 x 18mm)
	185-5531	1	MDKUB	4		1	Screw
	185-7087	1	MDKWB		185-5833	1	MDKUB
2			Gasket		185-5833	3	MDKWB
	185-5335	1	MDKUB				
	185-5832	1	MDKWB				

Intake Manifold MDKUB (Begin Spec H)



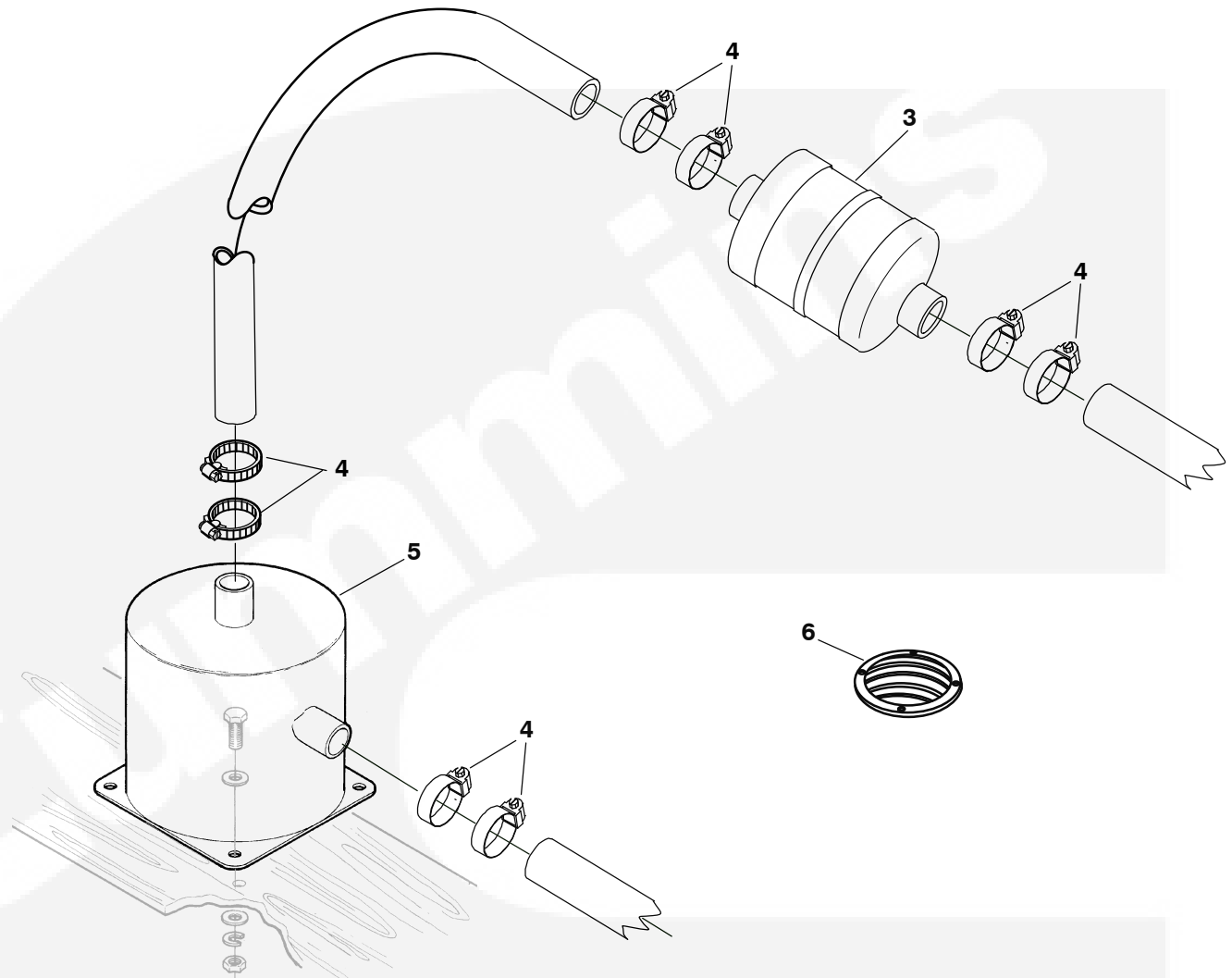
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	181-9244	1	Manifold, Intake (Includes Gasket)	4	185-2389	2	Screw, Hex Head (M6 x 18mm)
2	181-9256	1	Pipe, Breather	5	185-5833	1	Screw
3	181-9048	1	Gasket				

Exhaust System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-1840	1	Hose, Cooling	185-6852	1	MDKWB	
2	503-1137	2	Clamp, Hose	14	154-2876	1	Gasket, Exhaust Elbow
3	502-1188	2	Elbow (90 deg.)	15	154-2877	1	Elbow, Exhaust
4	862-0026-54	1	Nut (M6 x 1mm)	16	850-0114-54	9	Washer, Lock (M8)
5	518-0515	1	Clamp	17	800-6057	9	Screw, Hex Head Cap (M8 x 1.25 x 20mm)
6			Nut, Hex (M6 x 1)	18	309-0597	1	Switch, High Exhaust Temperature (S16)
	862-0026-54	4	MDKUB	19	503-1142	4	Clamp, Hose
	862-0026-54	6	MDKWB	20	853-0005	1	Washer, ET Lock (#8)
7			Washer, Lock (M6)	21	860-0010	1	Nut, Hex (#8-32)
	850-0114-53	4	MDKUB	22	503-2013	1	Hose, Wet Exhaust (2" I.D. x 4.75" Long)
	850-0114-53	6	MDKWB				
8			Manifold Assy (Includes Cap and Filler)	23			Tube, Exhaust
	179-2663	1	MDKUB		155-2673-01	1	MDKUB
	179-2662-S0	1	MDKWB		155-2674-01	1	MDKWB
9	130-3721	1	Cap, Filler	24			Hose, Exhaust 2"
10	130-2333	1	Neck, Filler		503-1353	1	
11			Manifold, Exhaust				
	154-2874	1	MDKUB				
	154-2875	1	MDKWB				
12			Stud (M6)				
	520-2041	4	MDKUB				
	520-2041	6	MDKWB				
13			Gasket, Exhaust Manifold				
	185-6851	1	MDKUB				

Resonator



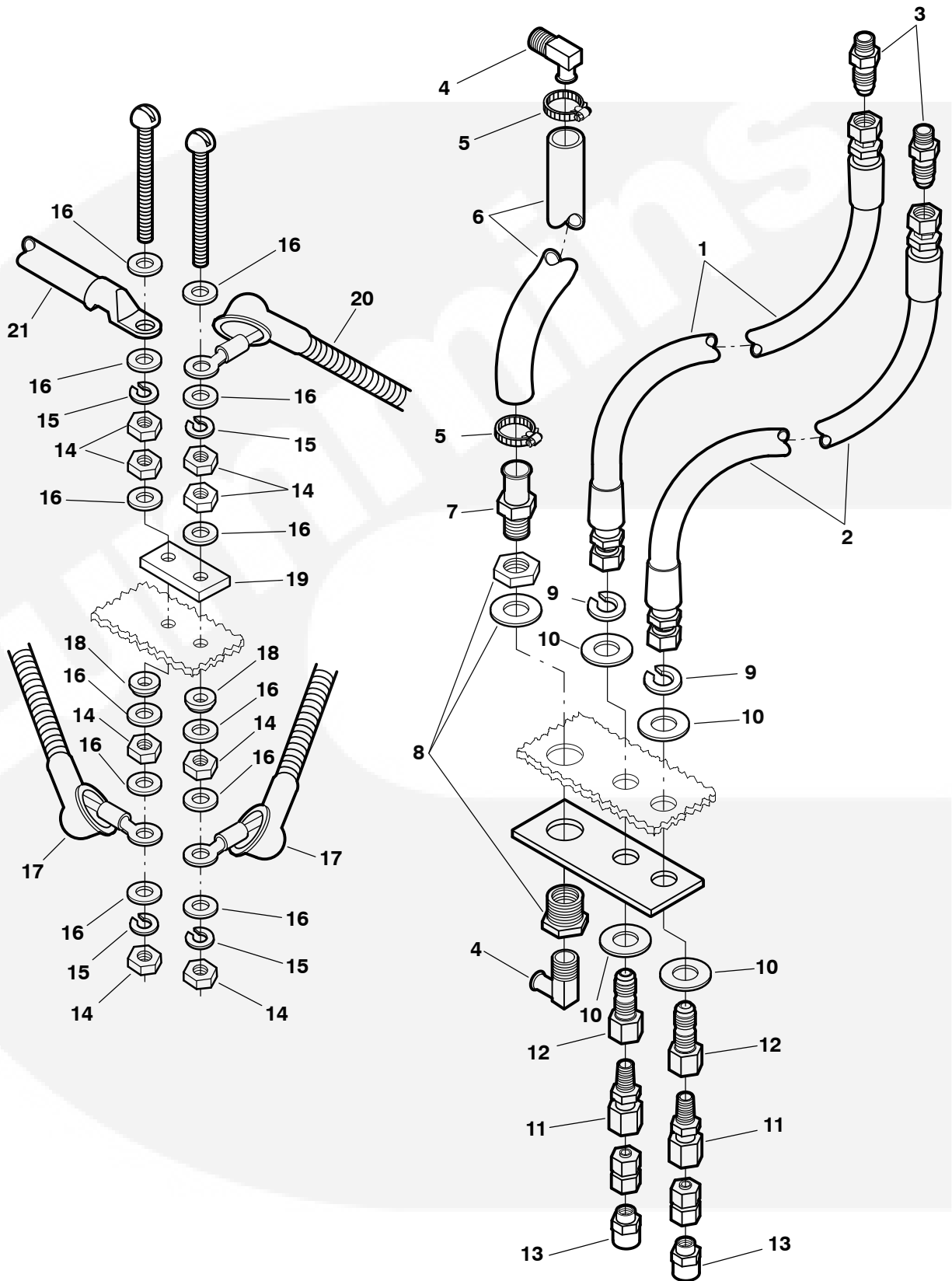
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-3147	1	Kit, Marine Muffler (Includes Parts Marked *)	4	503-1142	12	*Clamp, Hose
2	155-3239	1	Kit, Resonator (Includes Resonator and Instruction Sheet) (Replaces Old Vetus Resonator)	5	155-2029	1	*Muffler, Marine
3	155-3239	1	*Resonator, Marine (2")	6	155-1002	1	*Strainer, Slotted

* – Parts Included in Marine Muffler Kit.

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Bulkhead (Spec A-B)

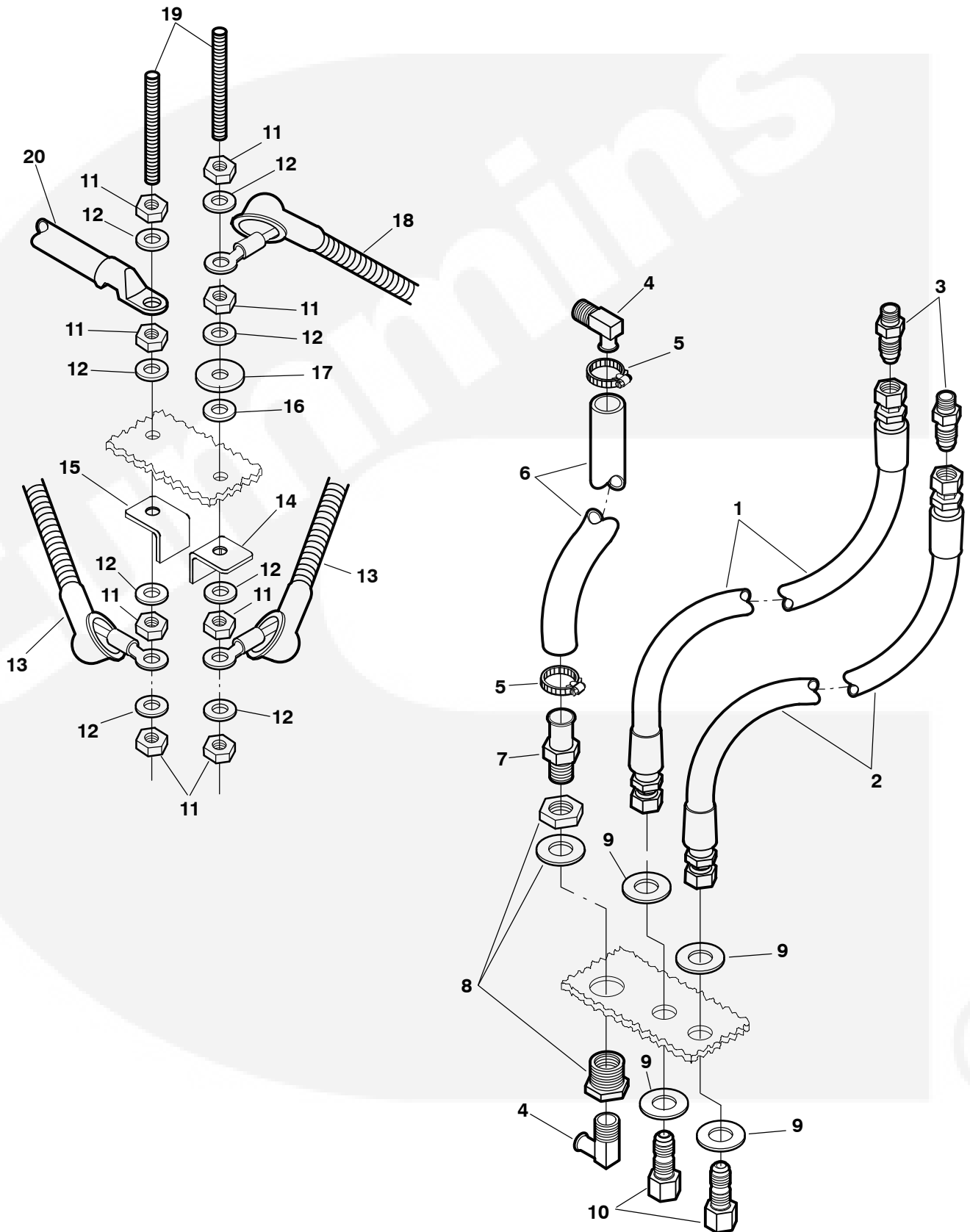


Bulkhead (Spec A-B)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Line, Return Fuel	12			Connector, Female Bulkhead
	501-0672-01	1	Spec B (28 1/2") (Shown)		502-1206	2	Spec A
2			Line, Inlet Fuel		505-1489	2	Spec B
	501-0672-02	1	Spec B (38 1/2") (Shown)	13	505-1486	2	Coupling, Reducer (Spec A)
3	505-1490	2	Connector, Male (Spec B)	14	871-0025	8	Nut, Brass Hex (5/16-18)
4	502-0942	2	Elbow, 90° Hose (Beaded)	15	850-0045	4	Washer, Lock (5/16)
				16	526-0054	12	Washer, Flat (5/16)
5	503-0977	2	Clamp, Hose (#10 SS)	17			Insulator, Terminal
6	503-1496	1	Hose, Coolant		332-2112	1	Black
7	502-0943	1	Connector, Hose (Beaded)		332-2112-01	1	Red
8	502-1209	1	Coupling, Anchor	18	508-0332	2	Washer, Phenolic
9	850-0065	2	Washer, Lock (9/16") (Spec A)	19	232-3791	1	Plate, Insulating
10	526-0406	4	Washer, Flat	20	416-0987-02	1	Cable Assy, Battery (Pos)
11	505-1485	2	Adapter, NPT Metric (Spec A & B)	21	226-4706-01	1	Cable Assy, Battery (Neg)

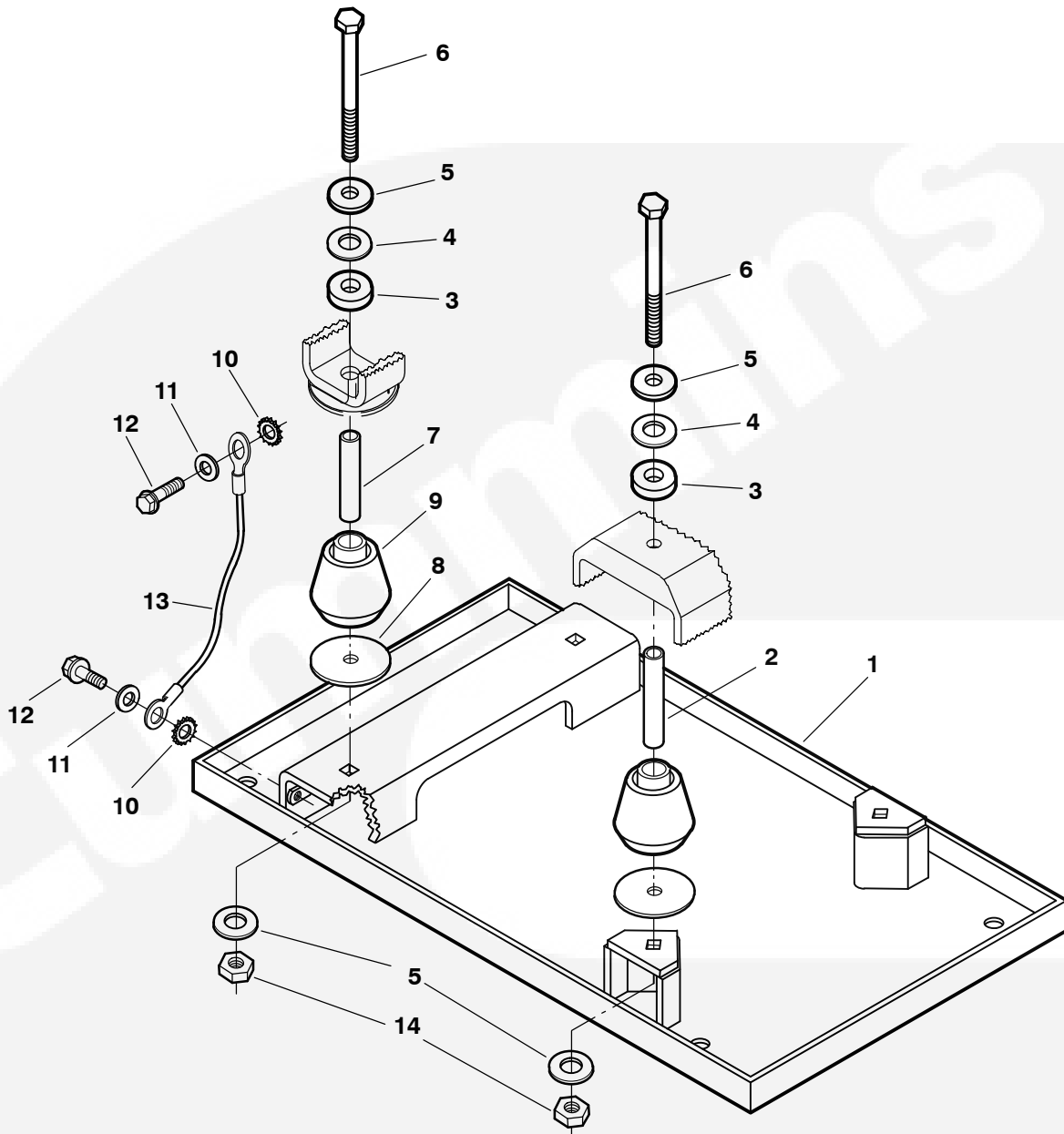
Bulkhead (Begin Spec C)

Bulkhead (Begin Spec C)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0672-01	1	Line, Return Fuel (28.5")	11	871-0025	8	Nut, Brass Hex (5/16-18)
2			Line, Inlet Fuel	12	526-0054	8	Washer, Flat (5/16)
	501-0672-02	1	Spec C,D (38.5")	13			Insulator, Terminal
	501-0672-03	1	Begin Spec E (35.5")		332-2112	1	Black
3	505-1490	2	Connector, Male (Spec B)		332-2112-01	1	Red
4	502-0942	2	Elbow, 90° Hose (Beaded)	14	370-1137-01	2	Angle, Red Insulating
5	503-0977	2	Clamp, Hose (#10 SS)	15	370-1137-02	1	Angle, Black Insulating
6	503-1496	1	Hose, Coolant	16	508-0334	2	Washer, Phenolic
7	502-0943	1	Connector, Hose (Beaded)	17	508-0328	4	Washer, Lock (5/16)
8	502-1209	1	Coupling, Anchor	18	416-0987-02	1	Cable Assy, Battery (Pos)
9	526-0406	4	Washer, Flat	19	332-3286	2	Stud
10	505-1489		Connector, Female Bulkhead	20	226-4706-01	1	Cable Assy, Battery (Neg)29.5"

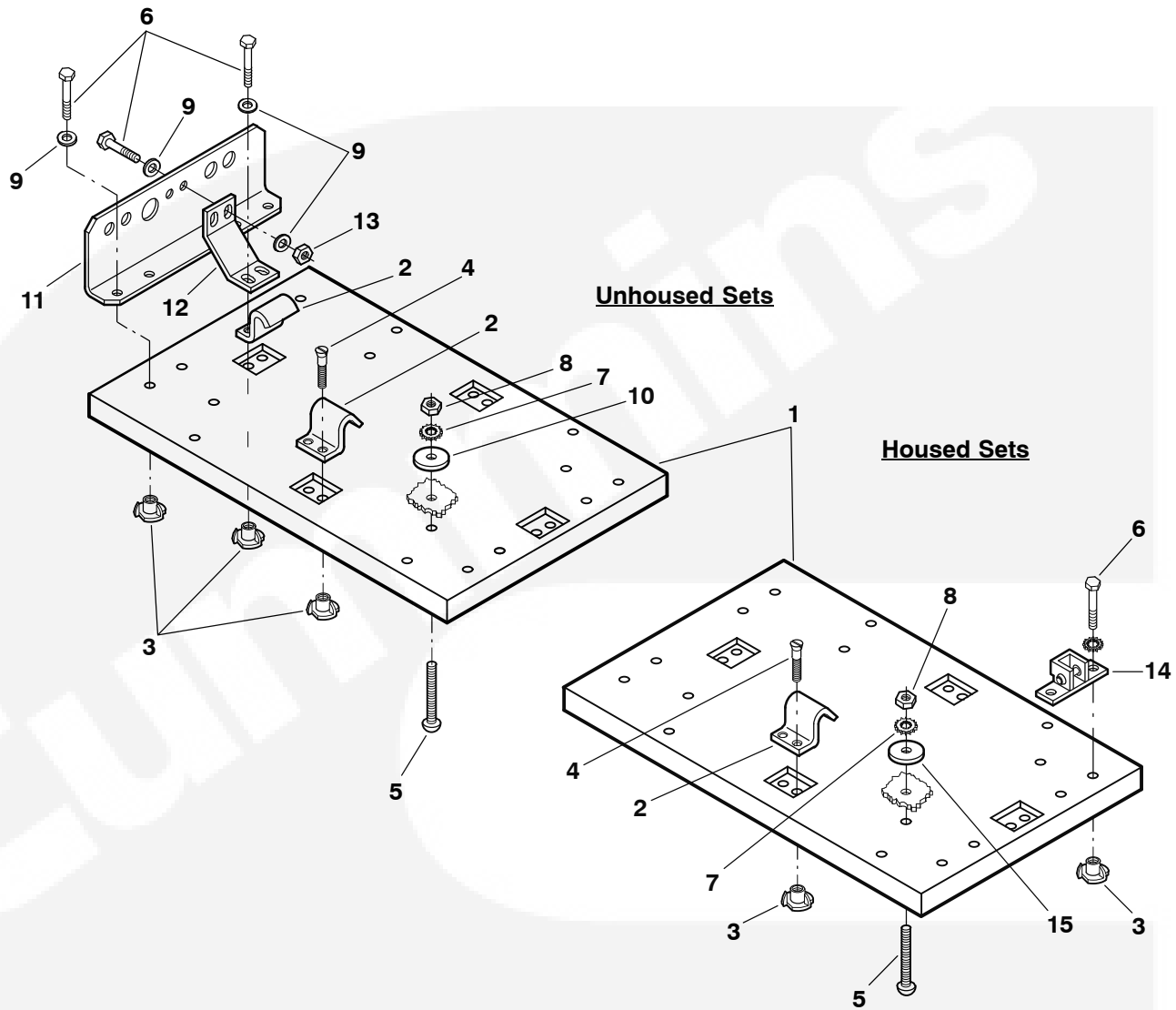
Drip Pan



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-3348-02	1	Pan, Drip MDKUB
	403-3355-S2	1	MDKWB
2	402-0290	2	Bushing, Spacer
3	402-0282	4	Snubber
4	526-0198	4	Washer, Flat (9/16")
5	526-0014	8	Washer, Flat (5/16")
6	800-0081	4	Screw, Hex Head Cap (7/16-14 x 3-3/4)
7	370-4028	2	Bushing, Spacer
8	526-0195	4	Washer, Flat (7/16")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	402-0284	4	Cushion, Vibration
10	853-0040-54	2	Washer, External Tooth Lock (M6)
11	526-0399-58	2	Washer, Flat (M6)
12	815-0261	2	Screw, Hex Washer Head Cap (M6 x 1 x 12.5mm) Thread Forming
13	226-4436		Strap, Ground 6.5" Spec A
	226-4632		19" Begin Spec B
14	862-0010	4	Nut, Hex (7/16-14)

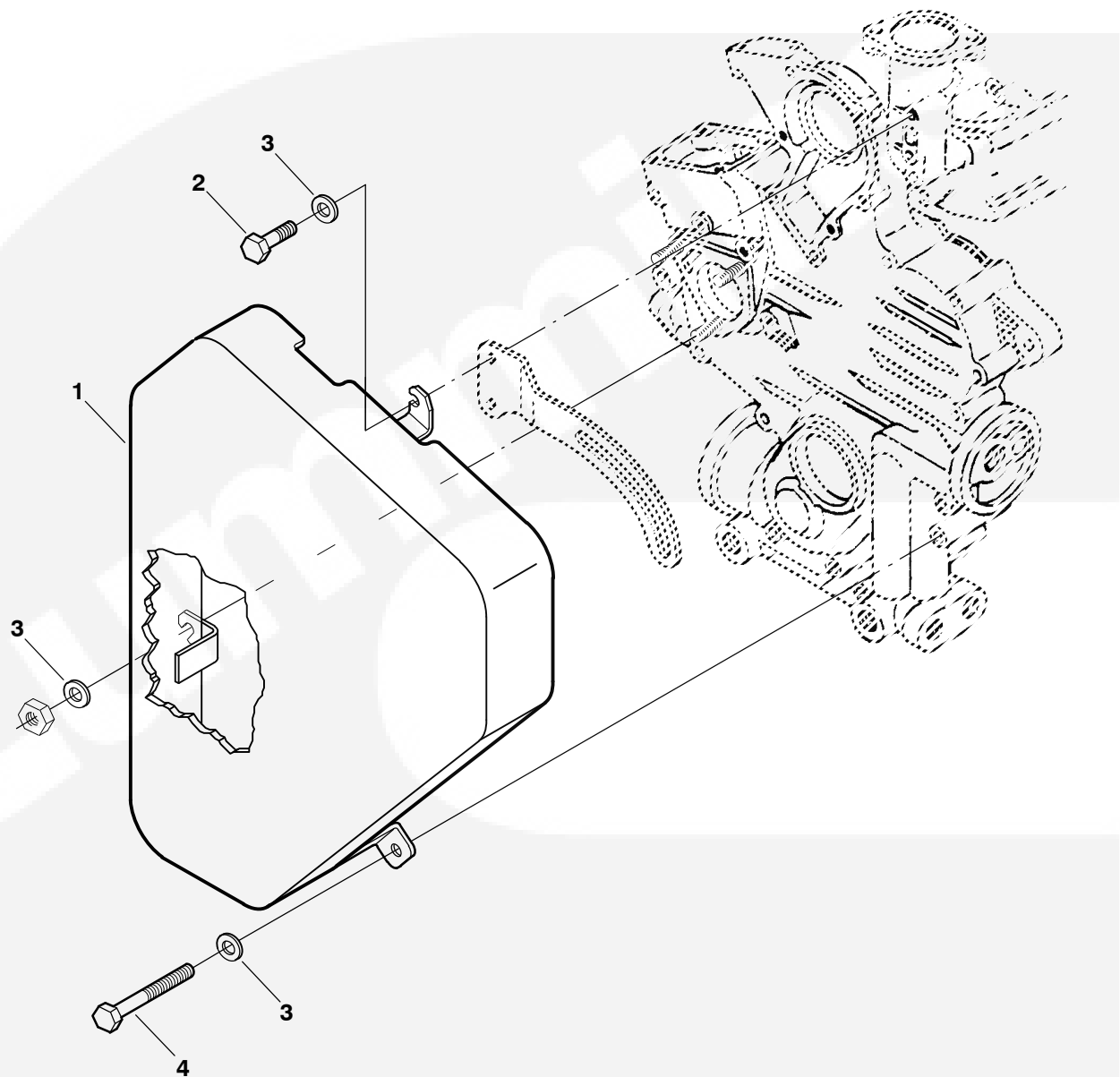
Mounting Base



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Base Assy
			MDKUB
	405-4609-S1	1	Housed Units
	405-5195-S1	1	Unhoused Units
			MDKWB
	405-4609-S2	1	Housed Units
	405-5195-S2	1	Unhoused Units
1	405-4595-S2	1	Base, Housing/Mounting MDKUB
2			Bracket, Drip Pan
	405-4679-03	4	White
3			Nut, Tee (5/16-18)
	870-0413	16	Housed Units
	870-0413	12	Unhoused Units
4			Screw, Slot (5/16-18 x 5/8")
	814-0176	8	Housed Units
	814-0176	6	Unhoused Units
5	816-0151	4	Bolt, Carriage (3/8-16 x 1-3/4")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6			Screw, Hex Head Cap (5/16-18 x 3/4")
	800-0026	8	Housed Units
	821-5003-03	8	Unhoused Units
7	856-0010	4	Washer, EIT Lock (3/8)
8	862-0011	4	Nut, Hex (3/8-16)
9	526-0399-61	2	Washer, Flat (5/16) (Unhoused)
10	526-0077	4	Washer, Flat (3/8") (Unhoused)
11	403-3727-03	1	Plate, Bulkhead (Unhoused)
12	403-3728-03	1	Bracket, Bulkhead (Unhoused)
13	870-0550-07	2	Nut, Hex Flange (5/16-18) (Unhoused)
14	405-4749	4	Bracket Assy, Pin (Housed)
15	526-0017	4	Washer, Flat (7/16") (Housed)
16	855-0013	8	Washer, EIT Lock (5/16) (Housed)

Belt Guard (Unhoused Units)

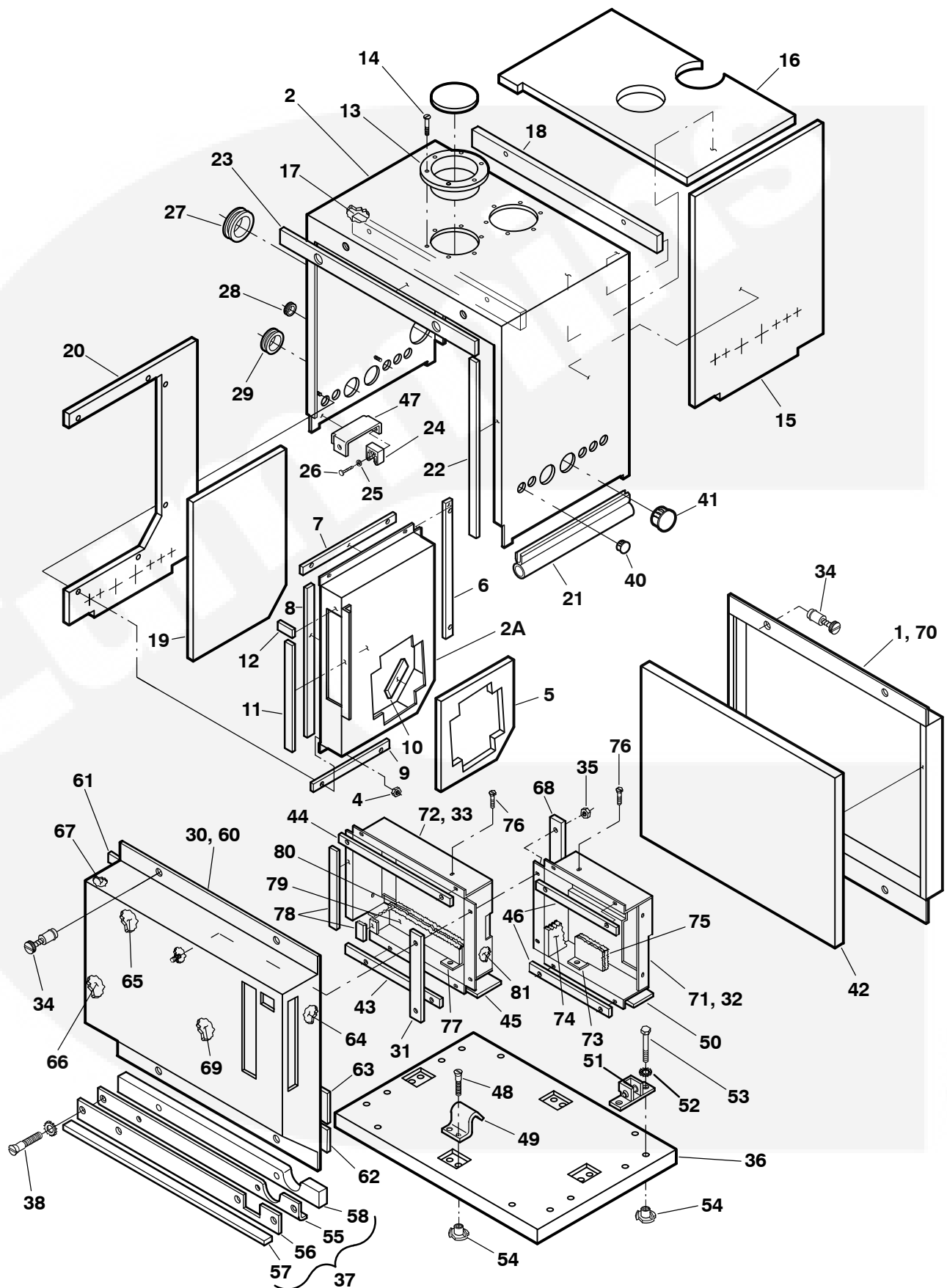


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4363-03	1	Guard, Belt
2	800-2034	1	Screw, Hex Head Cap (M6 x 1 x 20mm)
3	526-2081	3	Washer, Flat (M6)
4	800-2041	1	Screw, Hex Head Cap (M6 x 1 x 55mm)

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Housing Spec A



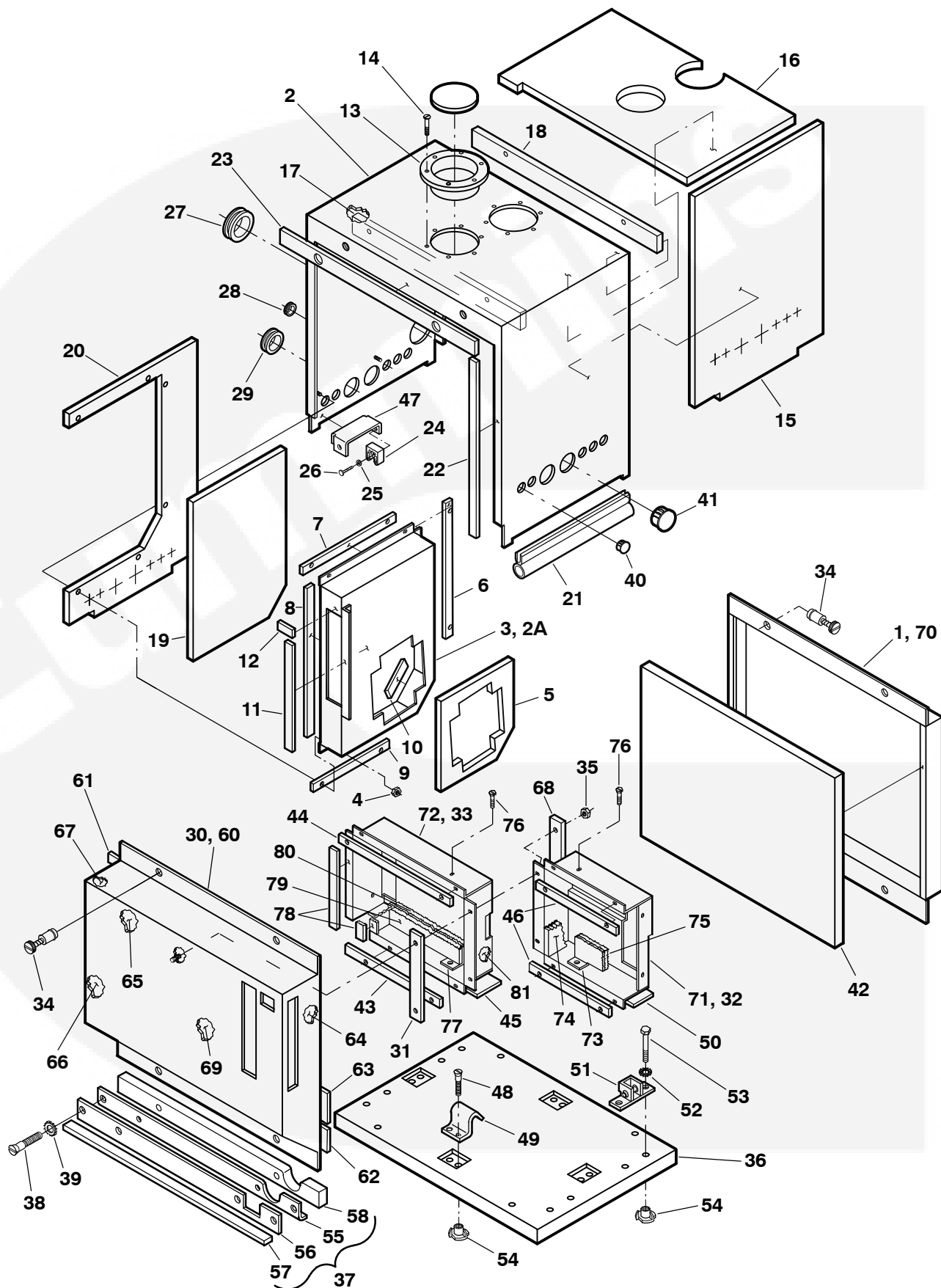
Housing Spec A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	
1			^Door, Rear	34	406-0742	8	^+Screw, Panel (Spring Eject.)	
	405-4594-03	1	MDKUB	35	870-0235	10	+Nut, Self Locking (#8-32)	
	405-4611-03	1	MDKWB	36			Base, Housing	
2			#Housing		405-4595-02	1	MDKUB	
	405-4598-03	1	MDKUB		405-4619-02	1	MDKWB	
	405-4617-03	1	MDKWB	37			#Housing Assy, Side (Includes Parts Marked @)	
2A	405-4606	1	Baffle, Housing (Includes Parts Marked *)		405-4761-01	2	MDKUB	
4	870-0235	6	#Nut, Self Locking Hex(#8-32)		405-4761-02	2	MDKWB	
5	405-4704	1	*Insulation, Baffle	38	814-0148	4	Screw, Flat Head Machine (1/4-20 x 1/2")	
6	405-5048	1	*Gasket, Baffle	40	517-0137	5	Plug, Hole	
7	405-5049	1	*Gasket, Baffle	41	517-0138-07	2	Plug, Hole	
8	405-5051	1	*Gasket, Baffle	42			^Insulation, Rear Door	
9	405-5050	1	*Gasket, Baffle		405-4703	1	MDKUB	
10	405-5052	1	*Gasket, Baffle		405-4712	1	MDKWB	
11	405-5054	1	*Gasket, Baffle	43			◇Gasket, Baffle	
12	405-5053	2	*Gasket, Baffle		405-4748-01	1	MDKUB	
13	405-4714	2	Cover, Access		405-4748-02	1	MDKWB	
14	815-0142	12	Screw, Flat Head Machine (#6-32 x 1/2")	44			◇Gasket, Baffle	
15	405-4691	1	#Insulation, Side Housing		405-4747-01	1	MDKUB	
16			#Insulation, Roof		405-4747-02	1	MDKWB	
	405-4690	1	MDKUB	45			◇Insulation, Baffle (Generator End)	
	405-4705	1	MDKWB		405-4735-01	1	MDKUB	
17			#Insulation, Front Housing		405-4735-02	1	MDKWB	
	405-4695	1	MDKUB	46			ΩGasket, Baffle	
	405-4707	1	MDKWB		405-4746-01	2	MDKUB	
18			#Insulation, Rear Housing		405-4746-02	2	MDKWB	
	405-4709	1	MDKWB	47			Support, Housing Clip	
19	405-4693	1	#Insulation, Side Housing		405-4713	2	Left Hand	
20	405-4692	1	#Insulation, Side Housing		405-4596	2	Right Hand	
21	405-4754-S0	2	#Seal, Housing	48	814-0176	8	Screw, Flat Head Slot (15/16-18 x 5/8")	
22	405-4752	4	#Gasket, Housing		49	405-4679-03	4	Bracket, Drip Pan
23			#Gasket, Housing	50			ΩInsulation, Baffle (Engine End)	
	405-4751-01	2	MDKUB		405-4744-01	1	MDKUB	
	405-4751-02	2	MDKWB		405-4744-02	1	MDKWB	
24	405-1872	4	#Clip, Door	51	405-4749	4	Bracket, Assembly Pan	
25	526-0003	8	#Washer, Flat (#8)	52	855-0013	8	Washer, Lock	
26	818-0150	8	#Rivet, Drive Pin	53	800-0026	8	Screw, Hex Head Cap (5/16 - 18 x 3/4")	
27	508-0063	1	#Grommet	54	870-0413	16	Nut, Tee (5/16 - 18)	
28	508-0071	5	#Grommet	55			@Housing, Side	
29	508-0055	2	#Grommet		405-4681-03	2	MDKUB	
30			+Door, Front		405-4616-03	2	MDKWB	
	405-4599-03	1	MDKUB					
	405-4608-03	1	MDKWB					
31	405-4745	1	+Gasket, Baffle					
32			+Baffle Assy, Door Air (Eng. End) (Includes Pats Marked Ω)					
	405-4682-01	1	MDKUB					
	405-4682-02	1	MDKWB					
33			+Baffle Assy, Door Air (Gen. End) (Includes Parts Marked ◇)					
	405-4729-01	1	MDKUB					
	405-4729-02	1	MDKWB					

* - Parts Included in Housing Baffle.
@- Parts Included in Side Housing Assy.
- Parts Included in Housing Assy.
+ - Parts Included in Front Housing Door Assy.
^ - Parts Included in Rear Housing Door Assy.
Ω - Parts Included in Door Air Baffle Assy (Engine End).
◇ - Parts Included in Door Air Baffle Assy (Generator End).

- * - Parts Included in Housing Baffle.
 @- Parts Included in Side Housing Assy.
 # - Parts Included in Housing Assy.
 + - Parts Included in Front Housing Door Assy.
 ^ - Parts Included in Rear Housing Door Assy.
 Ω - Parts Included in Door Air Baffle Assy (Engine End).
 ◇ - Parts Included in Door Air Baffle Assy (Generator End).

Housing Spec A

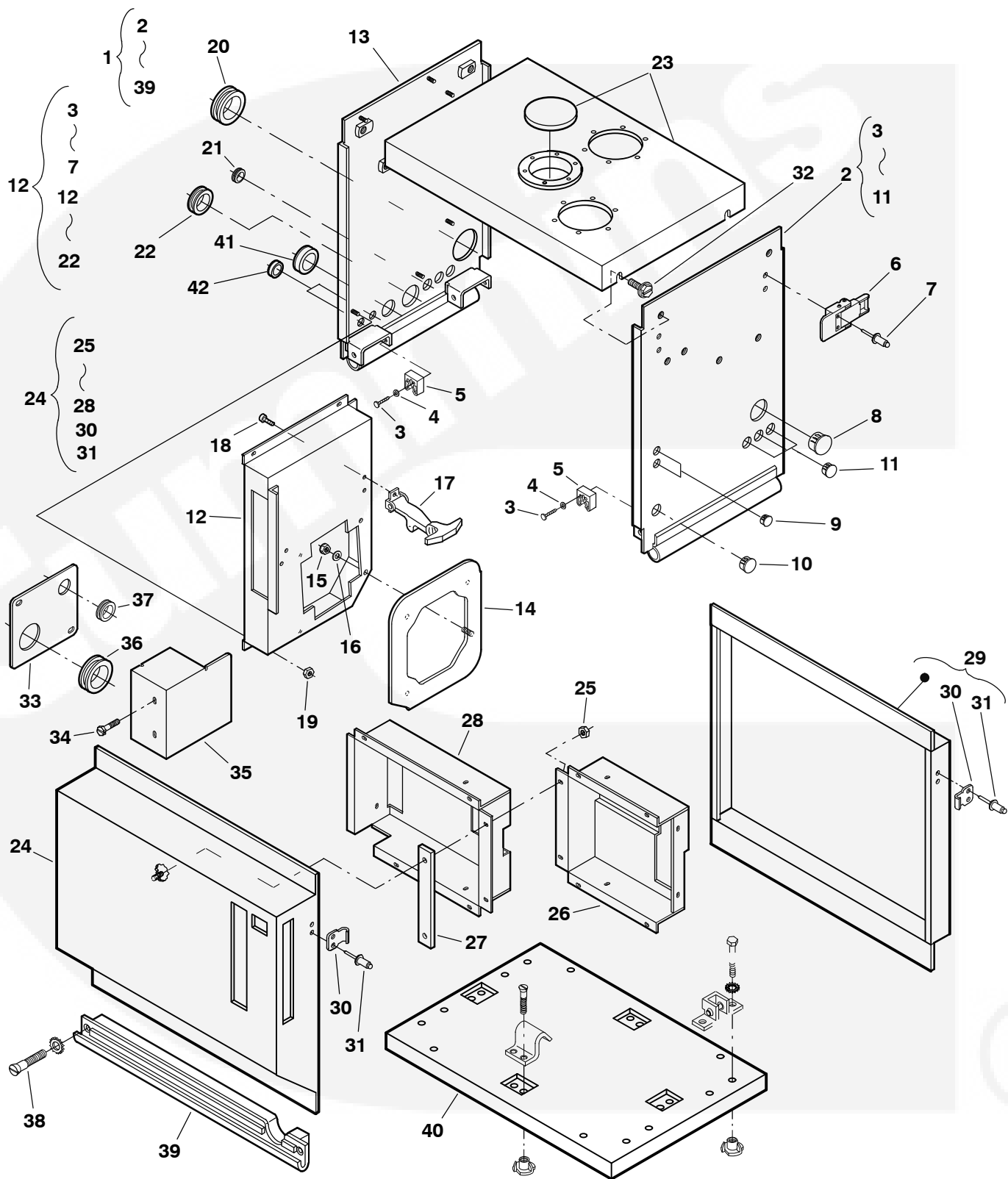


Housing Spec A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
56			@ Gasket, Housing	71			Ω Baffle, Door Air (Eng. End)
	405-4750-01	2	MDKUB		405-4601-03	1	MDKUB
	405-4750-02	2	MDKWB		405-4612-03	1	MDKWB
57			@ Gasket, Housing	72			◇ Weldment, Air Baffle (Gen. End)
	405-4753-01	2	MDKUB		405-4676-03	1	MDKUB
	405-4753-02	2	MDKWB		405-4615-03	1	MDKWB
58			@ Insulation, Housing	73			Ω Panel, Air Baffle (Eng. End)
	405-4696	2	MDKUB		405-4677-03	1	MDKUB
	405-4708	2	MDKWB		405-4684-03	1	MDKWB
59			Housing Assy (Includes Parts Marked #)	74	405-4738	1	Ω Insulation, Baffle (Eng. End)
	405-4614-01	1	MDKUB	75			Ω Insulation, Baffle (Eng. End)
	405-4614-02	1	MDKWB		405-4741-01	1	MDKUB
60			Door Assy, Front Housing (Includes Parts Marked +)		405-4741-02	1	MDKWB
	405-4600-01	1	MDKUB	76	815-0652	8	Ω◇ Screw, Hex Head Slot (#10-32 x 1/2")
	405-4600-02	1	MDKWB	77			◇ Panel (Weldment) (Gen. End)
61			+ Insulation, Front Door		405-4771-03	1	MDKUB
	405-4699	1	MDKUB		405-4772-03	1	MDKWB
	405-4710	1	MDKWB	78	405-4749	2	◇ Gasket, Baffle
62			+ Insulation, Front Door	79			◇ Insulation, Door (Eng. End)
	405-4700	1	MDKUB		405-4727-01	1	MDKUB
	405-4711	1	MDKWB		405-4727-02	1	MDKWB
63			+ Insulation, Front Door	80			◇ Insulation, Baffle (Gen. End)
	405-4694	1	MDKUB		405-4730-01	1	MDKUB
	405-4706	1	MDKWB		405-4730-02	1	MDKWB
64	405-4701	1	+ Insulation, Front Door	81	405-4726	1	◇ Insulation, Baffle (Gen. End)
65			+ Insulation, Door (Gen. End)				
	405-4728-01	1	MDKUB				
	405-4728-02	1	MDKWB				
66	405-4731	1	+ Insulation, Door				
67	405-4702	1	+ Insulation, Front Door				
68	405-4698	1	+ Insulation, Front Door				
69			+ Insulation, Door (Eng. End)				
	405-4727-01	1	MDKUB				
	405-4727-02	1	MDKWB				
70			Door Assy, Rear Housing (Includes Parts Marked ^)				
	405-4597-01	1	MDKUB				
	405-4597-02	1	MDKWB				

- * - Parts Included in Housing Baffle.
- @ - Parts Included in Side Housing Assy.
- # - Parts Included in Housing Assy.
- + - Parts Included in Front Housing Door Assy.
- ^ - Parts Included in Rear Housing Door Assy.
- Ω - Parts Included in Door Air Baffle Assy (Engine End).
- ◇ - Parts Included in Door Air Baffle Assy (Generator End).

Housing Spec B



Housing Spec B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Housing Assy (Includes Parts Marked *)	27	405-5055	1	~Gasket, Baffle
			Begin Spec C	28			~Baffle, Door Air (Generator)
			W/2 Access Holes		405-4997-S1	1	MDKUB
	405-5806-01	1	MDKUB		405-4997-S2	1	MDKWB
	405-5806-S2	1	MDKWB	29			*Door Assy, Rear (Includes Spring Catch and Rivets)
			W/3 Access Holes		405-4989-01	1	MDKUB
2	405-4979	1	*Housing Assy, Front (Includes Parts Marked ^)		405-4989-04	1	MDKWB
3	818-0150	4	+^Rivet, Drive Pin	30	406-0528-01	4	~Catch, Spring
4	526-0003	4	+^Washer, Flat (#8)	31	818-0194	8	~Rivet
5	405-1872	4	+^Clip, Door	32	815-0573	4	*Screw, Hex Washer Head
6	406-0528-02	4	+^Catch, Spring	33	405-4715-03	1	*Bracket, Baffle
7	818-0194	8	+^Rivet	34	815-0652	4	*Screw, Hex Head Slot (#10-32 x 1/2")
8	517-0138-07	1	^Plug, Hole	35			*Baffle, Muffler
9	517-0134	2	^Plug, Hole				MDKUB
10	517-0138	1	^Plug, Hole		405-4716-02	1	Black
11	517-0137	3	^Plug, Hole		405-4716-03	1	White
12	405-5672-02	1	+Baffle, Housing (Includes Plate, Nut, Washer, Latch and Rivet)				MDKWB
13	405-5673-02	1	Housing Panel		405-4717-03	1	White
14	405-5149-02	1	Plate, Baffle Seal	36	508-0234	1	*Grommet
15	870-0235	4	Nut, Self-Locking (8-32)	37	508-0071	1	*Grommet
16	526-0062	8	Washer, Flat (.20 x .50)	38	814-0148	4	*Screw, Flat Head Slot (1/4-20 x .50")
17	406-0744	2	Latch	39			*Rail Assy, Lower
18	818-0217-03	4	Rivet		405-5006-01	2	MDKUB
19	870-0235	6	+Nut, Self Lock Hex (#8-32)		405-5006-02	2	MDKWB
20	508-0063	1	+Grommet	40			Base Assy (See Separate Page for Components)
21	508-0071	1	+Grommet				Housed Units
22	508-0055	1	+Grommet		405-4609-S1	1	MDKUB
23			*Housing Assy, Top (Includes Access Cover and Screws)		405-4609-S2	1	MDKWB
			W/2 Access Holes				Unhoused Units
	405-4986-01		MDKUB		405-5195-S1	1	MDKUB
	405-4986-04		MDKWB		405-5195-S2	1	MDKWB
			W/3 Access Holes	41	517-0122	1	Plug, Plastic Cover
	405-4986-07		MDKUB	42	517-0090	1	Plug, Plastic Cover
24			*Door Assy, Front (Includes Parts Marked ~)				
	405-4992-03	1	MDKUB				
	405-4992-04	1	MDKWB				
25	870-0235	10	~Nut, Self Locking Hex				
26			~Baffle, Door Air (Engine)				
	405-4994-S1	1	MDKUB				
	405-4994-S2	1	MDKWB				

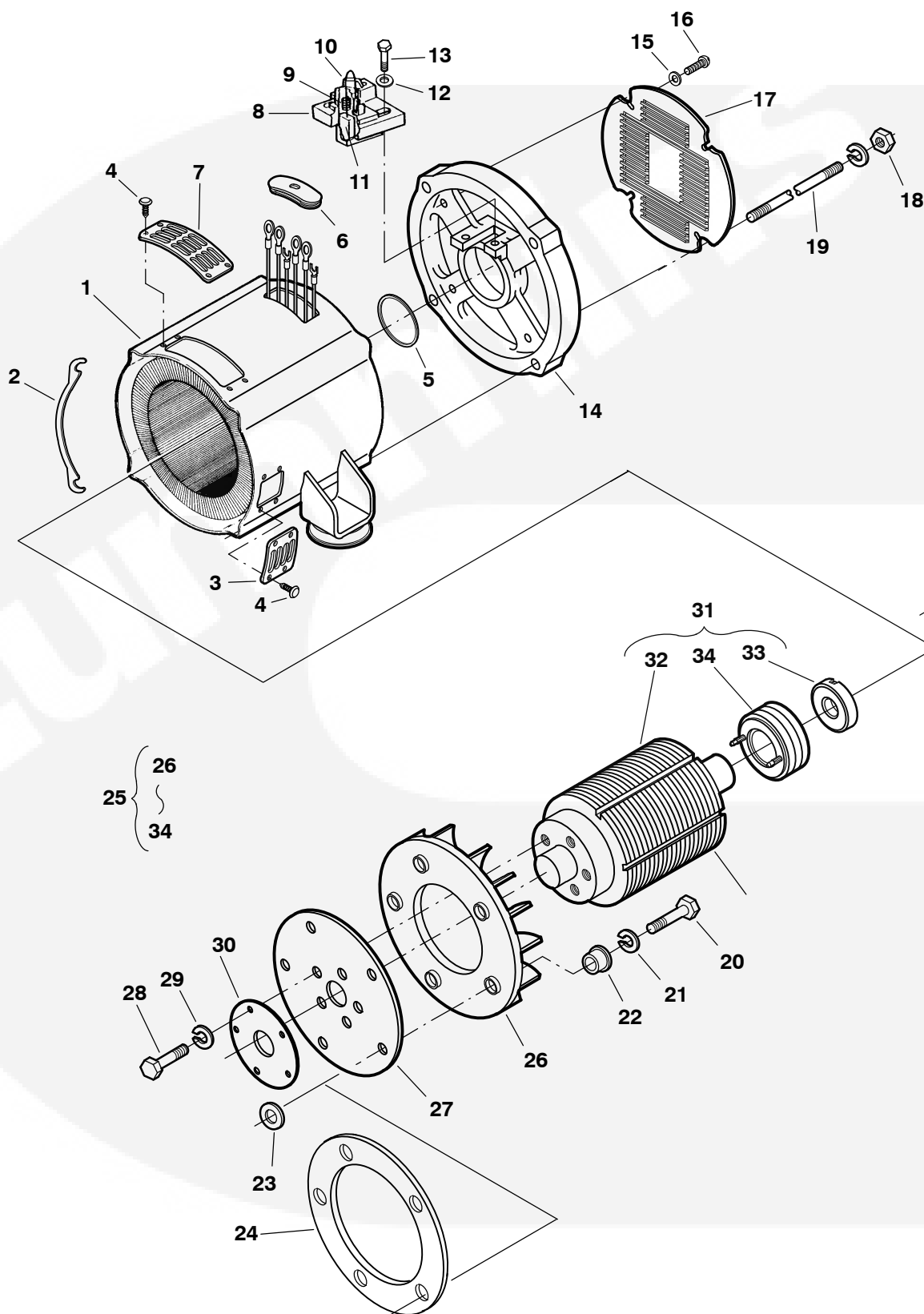
* - Parts Included in Housing Assy.

^ - Parts Included in Front Housing Assy.

+ - Parts Included in Back Housing Assy.

~ - Parts Included in Front Door Assy.

Generator



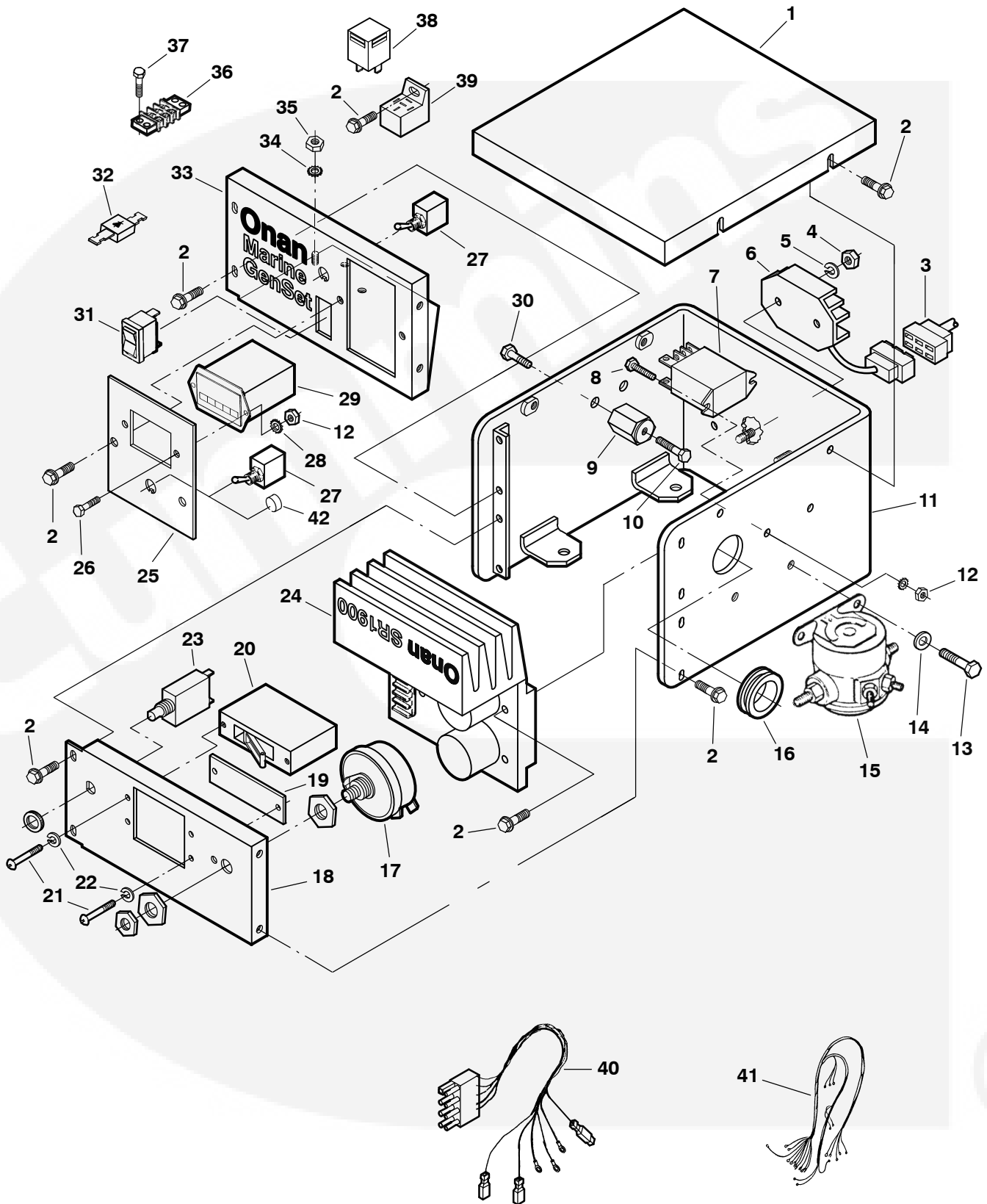
Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator	20	800-3017-20	5	Screw, Hex Head Cap (M8 x 1.25 x 25mm)
	220-4441-01	1	MDKUB	21	850-0114-54	5	Washer, Lock (M8)
	220-4441-02	1	MDKWB	22	232-3296	5	Spacer, Fan
2	232-3856-02	1	Shim (Spec A) (Use as Required)	23	232-3719-02	5	Spacer, Drive Disc
3	232-3651	1	Guard, Fan (Small)	24	232-4070	1	Spacer, Drive Disc
4	518-0649	16	Clip, Push On	25			Rotor Assy, Generator Fan (Includes Parts Marked *)
5	509-0196	1	O'Ring (Spec A)		201-3487-S1	1	MDKUB
	509-0420	1	O'Ring (Spec B)		201-3487-S2	1	MDKWB
6	508-1085	1	Grommet, Lead Out	26	205-0203	1	*Fan, Generator
7	232-3632	3	Guard, Fan (Large)	27	232-3633	1	*Disc, Generator Drive
8	212-1285-S0	1	Block Assy, Brush (Includes Brushes & Springs)	28	718-1037	5	*Screw, Hex Head Cap (M8 x 1.25 x 25mm)
9	212-1276-03	2	Spring, Generator Brush	29	850-2008	5	*Washer, Lock (M8)
10	212-1286-S0	1	Block, Brush (with Terminal)	30	232-3671	1	*Ring, Clamp
11	214-0103	2	Brush, Generator	31			*Rotor Assy, Generator (Includes Parts Marked +)
12	526-0399-56	2	Washer, Flat (M5)		201-3350-S1	1	MDKUB
13	800-0309-89	2	Screw, Hex Head Machine (M5 x 0.8 x 16mm)		201-3350-S2	1	MDKWB
14	211-0447	1	Endbell	32	232-3649	1	+ Hub, Rotor
15	526-0003	4	Washer, Flat (#8)	33	510-0185	1	+ Bearing, Ball
16	815-0862	4	Screw, Round Head Machine (M4 x 0.7 x 10mm)	34	204-0141	1	+ Ring, Collector
17	211-0448-S2	1	Cover, Endbell (Unhoused Units)				
18	862-0003	4	Nut, Hex (3/8-16)				
19			Stud (3/8-16)				
	520-0998-01	4	MDKUB				
	520-0998-02	4	MDKWB				

* - Parts Included in Generator Fan Rotor Assy.

+ - Parts Included in Generator Rotor Assy.

Control Box



Control Box

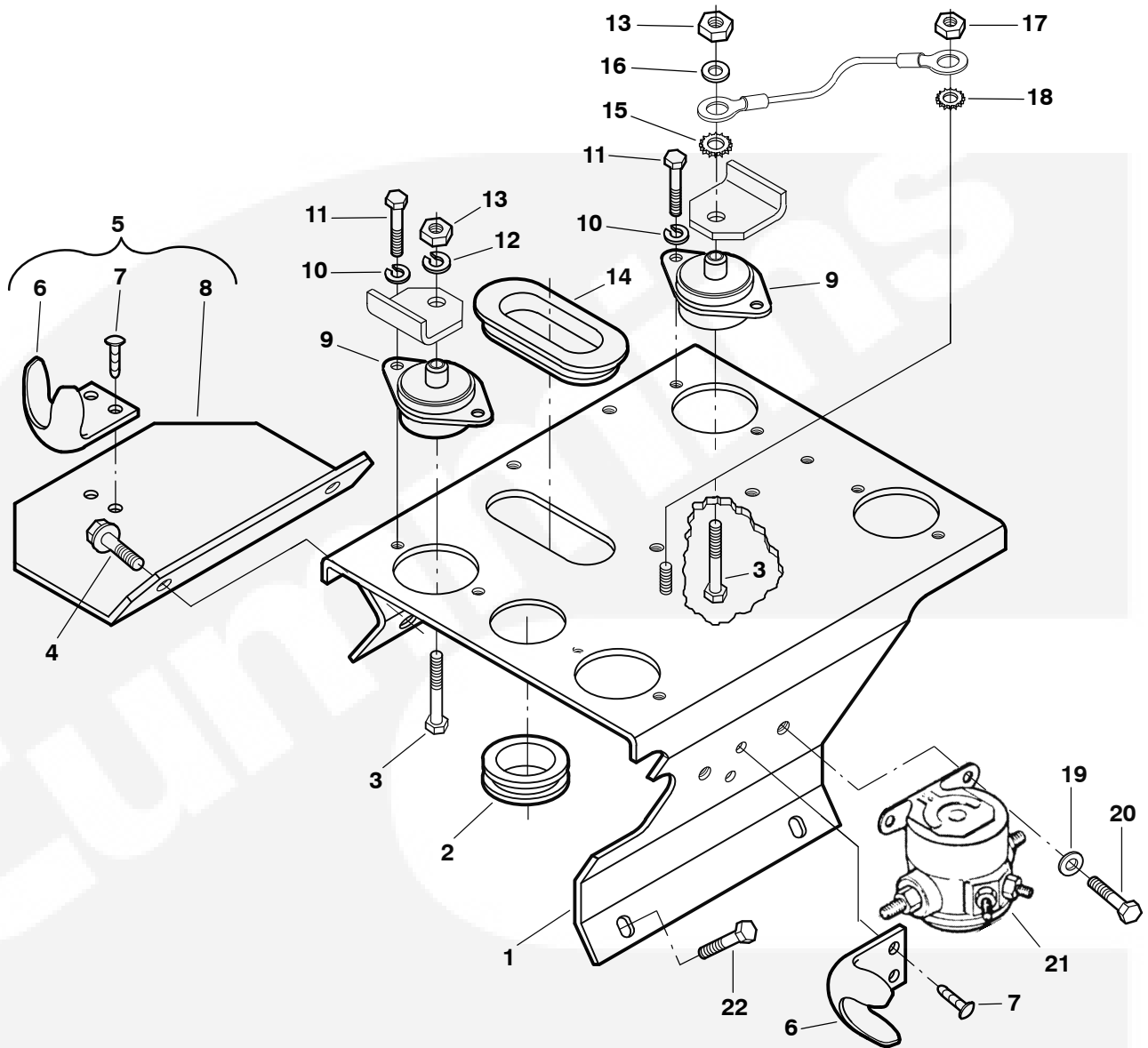
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1461-02	1	Cover, Control				(Breaker Mounting)
2	800-3022	19	Screw, Lock Head Flange (M5 x 0.8 x 14mm)	22	850-0020	4	Washer, Lock (.25 OD x .042 ID)
3	185-2424	1	Plug, Mating	23	320-1769	1	Breaker, Circuit (Field) (CB2)
4	860-2057	2	Nut, Hex (M6 x 1mm)				(Includes Nut)
5	850-0114-53	2	Washer, Lock (M6)	24	305-0854-04	1	Regulator, AC Voltage (VR1)
6			Regulator, DC Voltage	25			*Panel, Start/Stop
	185-5428	1	Spec A-C		319-1458-02	1	With Time Totalizing Meter
	185-7396	1	Begin Spec D				Holes
7	307-2594	1	Relay, Start Disconnect (K16)		319-1893-02	1	Without Time Totalizing Meter
8	800-3019	2	Screw (M3 x 0.5 x 14)				Holes
9	332-2370	2	Standoff, Insulating	26	800-3019	2	Screw, Hex Head Cap
10	821-0009	2	Screw, (1/4-20 x 3/8") (Units With 1 Pole Main Line Breaker)	27	541-1608	2	(M3 x 0.5 x 14mm)
11			Wrapper, Control	28	853-0040-51	2	Switch, Toggle (S10, 12)
	319-1660-02	1	Spec A,B	29	302-0885	1	Washer, ET Lock (M3)
	319-3101-02	1	Begin Spec C	30	821-0008	2	Meter, Time Totalizing (M18)
12	860-2053	4	Nut, Hex (M3 x .5mm)	31	320-1739	1	Screw (1/4-20 x 5/16")
13	800-6029	2	Screw, Hex Head Cap (M6 x 1 x 12mm) (Begin Spec B)	32	357-0030	1	Breaker, Circuit (CB08)
				33			Rectifier (CR12)
14	526-0399-58	2	Washer, Flat (M6) (Begin Spec B)		319-4531	1	Panel, DC Control
15	307-1617	1	Relay, Start Solenoid	34	853-0040-53	1	W/O Removeable Panel
16	508-0258	1	Grommet	35	860-2020	1	Washer, ET Lock (M5)
17	303-0285	1	Potentiometer (R1) (Includes Nuts)	36	332-3136	1	Nut, Hex (M5 x 0.8)
18	319-1665-02	1	Panel, AC Control	37	800-3021	2	Block, Terminal (TB13)
19	320-1813-02	1	Plate, Control Cover (Units With 1 Pole Main Line Breaker)				Screw, Hex Head Cap
20			Breaker, Circuit (Main Line) (CB1)	38	307-2767	4	(M4 x 0.7 x 16mm)
			MDKUB				Relay 24 VDC SPDT
	320-1690-16	1	25A				(K04, 11, 13, 15)
	320-1690-10	1	55A	39	323-1563	4	Socket, Relay
	320-1689-03	1	Spec 54477, 58558, 64313 (25 Amp)	40	338-2793	1	Harness, Panel Wiring
	320-1689-04	1	Spec 54476, 60508, 68572 (30 Amp)	41			Harness, Start/Stop Panel
			MDKWB				(For Use When Panel is Remote Mounted - Spec A-B Only)
	320-1690-05	1	Spec 56678, 60507 (80 Amp)		338-2794	1	15 Feet
	320-1689-05	1	Spec 54477, 58558 (35 Amp)		338-2794-01	1	25 Feet
	320-1689-06	1	Spec 54476, 60508 (40 Amp)		338-2794-02	1	45 Feet
21	812-0061	4	Screw, Round Head Machine	42	517-0132	1	Plug, Hole

* - Part Used With Start/Stop Panel Harness When Remote Mounted.

- Parts Included in Voltage Regulator Harness.

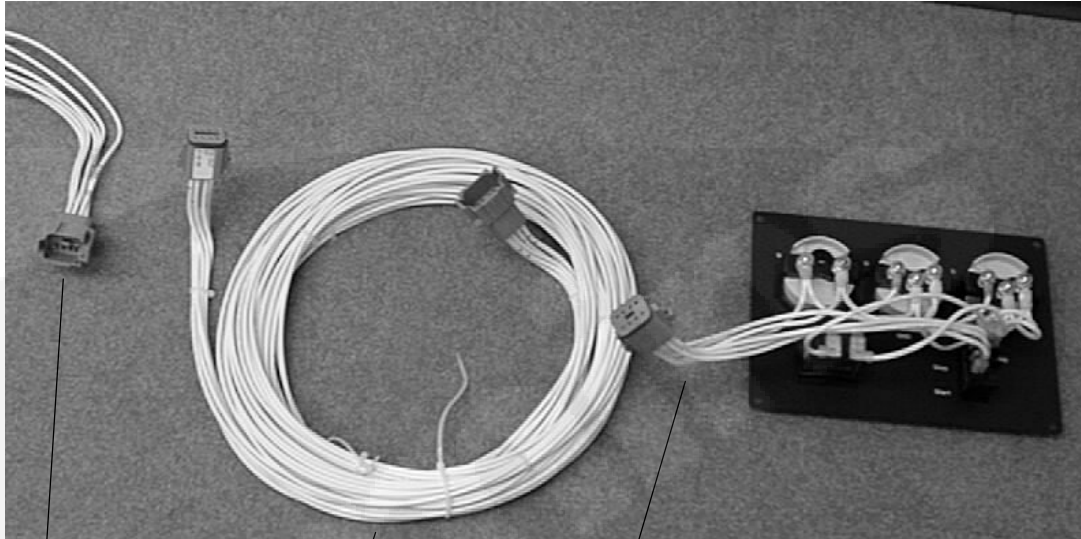
+ - Parts Included in Engine Harnes (Begin Spec C).

Control Mount



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1657-02	1	Saddle, Control	12	850-0114-53	3	Washer, Lock (M6)
2	155-1252	1	Grommet (Begin Spec B)	13	860-2057	4	Nut, Hex (M6 x 1mm)
3	800-3023	4	Screw, Hex Head Cap (M6 x 1 x 40mm)	14	508-1057	1	Grommet
4	815-0290	2	Screw (1/4-20 x 5/8") (Housed Sets)	15	853-0040-54	1	Washer, ET Lock (M6)
5	405-5209-S0	1	Bracket Assy, Latch (Includes 1 Latch Keeper 2 Rivets, and Bracket) (Housed Sets)	16	526-0399-58	1	Washer, Flat (M6)
6	406-0744	2	Keeper, Latch (Begin Spec B)	17	862-0013	1	Nut, Hex (1/4-20)
7	818-0217-03	4	Rivet (Begin Spec B)	18	853-0013	1	Washer, ET Lock (1/4)
8	405-5210-02	1	Bracket, Latch (Begin Spec B)	19	526-0399-58	2	Washer, Flat (M6)
9	402-0654	4	Mount, Control	20	800-6029	2	Screw, Hex Head Cap (M6 x 1 x 12mm)
10	526-2080	8	Washer, Lock (M4)	21	307-1617	1	Relay, Start Solenoid
11	800-3020	8	Screw, Hex Head Cap (M4 x 0.8 x 13mm)	22			Screw, Hex Head Cap (M6 x 1 x 12) Thread Forming Unhoused Housed
				815-0261		4	
				815-0261		2	

Harness Location



1

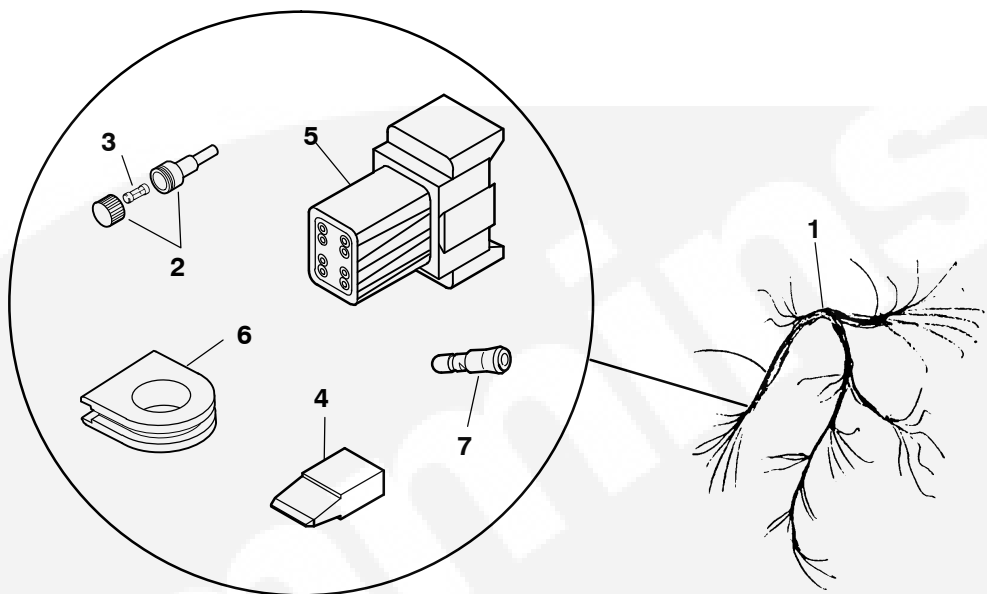
2

3

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	*	—	Harness, Engine
2	*	—	Harness, Extension (Or Customer Interface Pigtail)
3	*	—	Harness, Remote Panel

* — See Index for Page Numbers of Detailed Descriptions.

Engine Harness

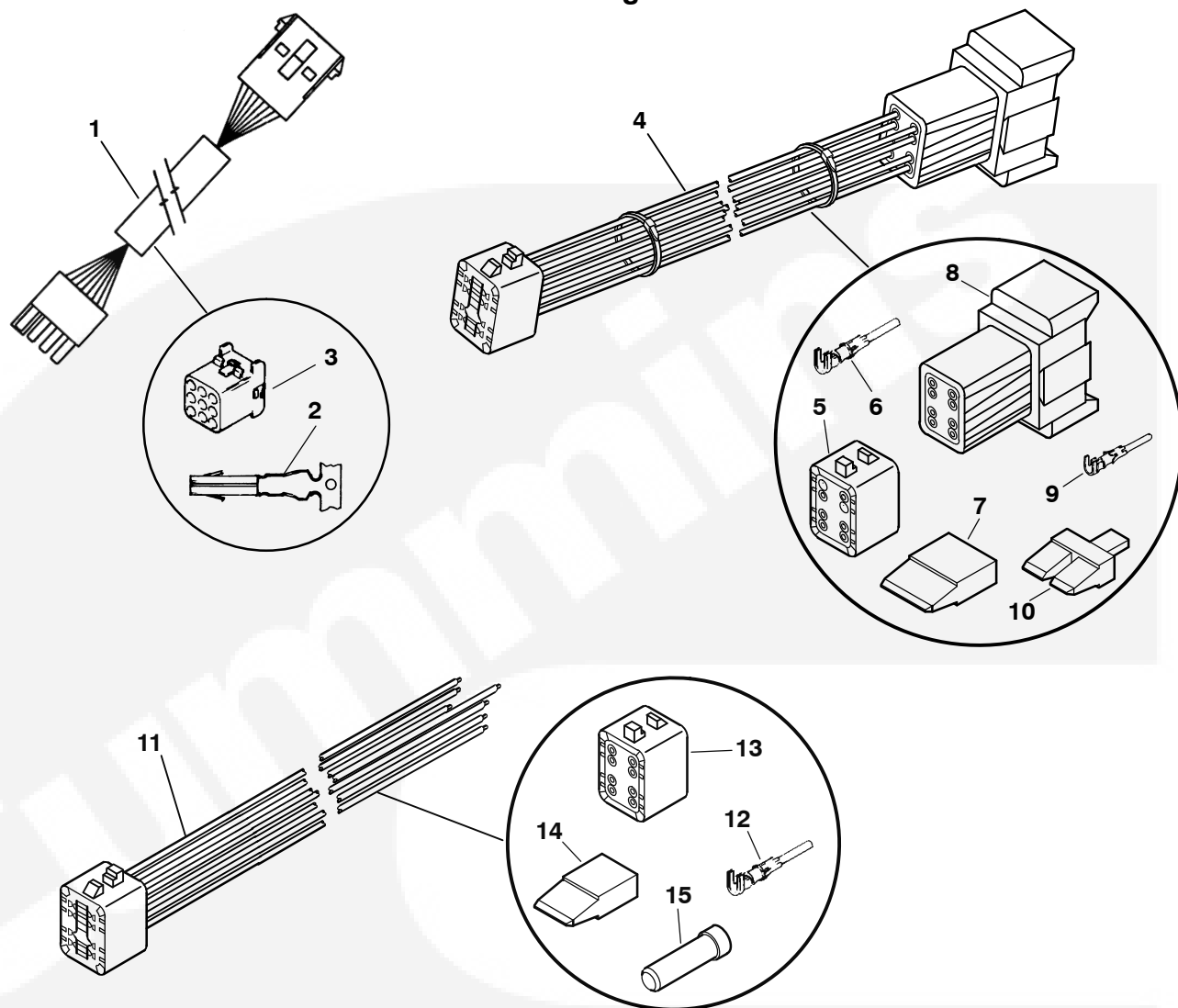


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Engine (Reaches from Genset to Extension Harness or Customer Interface Pigtail Harness) Spec A,B (Includes Fuse and Fuse Holder)
	338-2792	1	MDKUB
	338-2803	1	MDKWB
			Begin Spec C (Includes Parts Marked +)
	338-3455	1	MDKUB
	338-3455	1	MDKWB

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	321-0267	1	+ Holder, Fuse
3	321-0113	1	+ Fuse (F1)
4	323-1544	1	+ Wedge, Receptacle (8 Pin)
5	323-1542	1	+ Housing, Receptacle (8 Pin)
6	508-1105	1	+ Grommet, Remote
7	332-3279	AR	+ Connector, Bullet

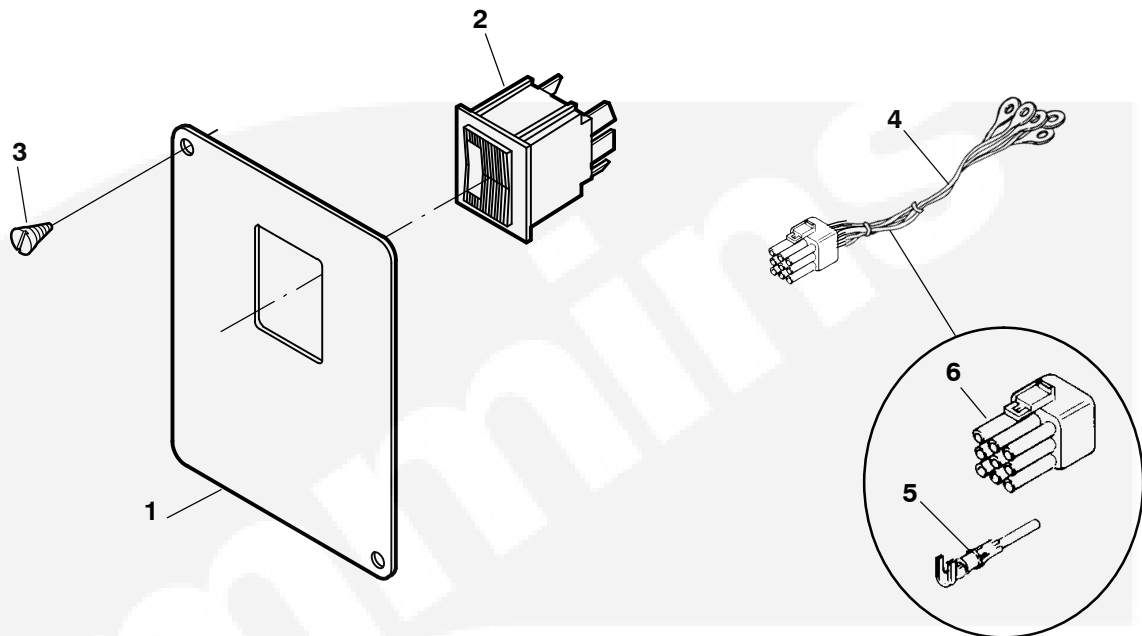
+ - Parts Included in Engine Harness.

Extension and Pigtail Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Extension (Spec A, B) (Reaches From Engine Harness to Remote Panel Harness) (Includes Contact Socket and Connector Cap)	5	323-1541	1	# Plug (8 Pin)
	338-2874-01	1	15 Feet	6	323-1492	8	# Terminal, Socket
	338-2874-02	2	25 Feet	7	323-1543	1	# Wedge, Plug (8 Pin)
	338-2874-03	1	45 Feet	8	323-1542	1	# Receptacle (8 Pin)
2	323-1200	AR	Socket, Contact	9	323-1491	8	# Terminal, Pin
3	323-1325	1	Cap, Connector	10	323-1544	1	# Wedge, Receptacle (8 Pin)
4			Harness, Extension (Begin Spec C) (Reaches From Engine Harness to Remote Panel Harness) (Includes Parts Marked #)	11	338-3098	1	Harness, Customer Interface Pigtail (12") (Begin Spec C) (Reaches From Engine Harness to Customer Hookup) (Includes Parts Marked *)
	338-3167	1	15 feet	12	323-1492	7	* Terminal, Socket
	338-3168	1	25 feet	13	323-1541	1	* Plug (8 Pin)
	338-3169	1	45 feet	14	323-1543	1	* Wedge, Plug (8 Pin)
	338-3169-01	1	75 feet	15	323-1591	1	* Plug, Connector
	338-3169-02	1	100 feet				
	338-3169-03	1	150 feet				

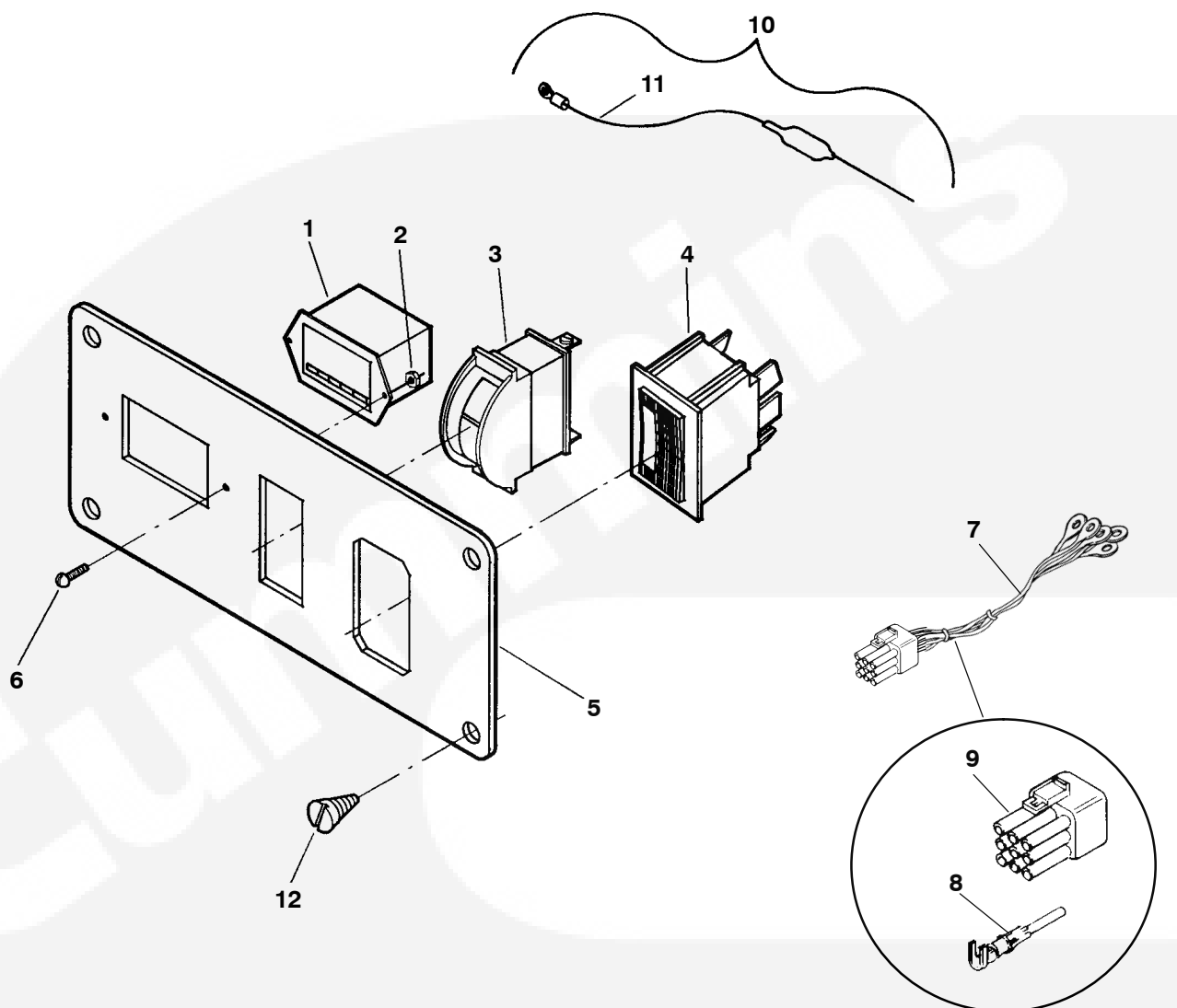
Basic Remote Control Panel (Spec A-B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-3469	1	Kit, Basic Remote Panel
1	319-0491	1	Panel, Control (Does Not Include Decals)
	98-5945	1	Decal, Rear Panel
2	308-0827	1	Switch, Rocker (12V)
3	808-0023	4	Screw, Round Head Sheet Metal (#8 x 1/2")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	338-2362-02	1	Harness, Remote Panel (Reaches From Extension Harness to Remote Panel) (Includes Pins and Plug)
5	323-1199	AR	Pin, Contact
6	323-1291	1	Plug (9 Pin)

Deluxe Remote Control Panel (Spec A-B)

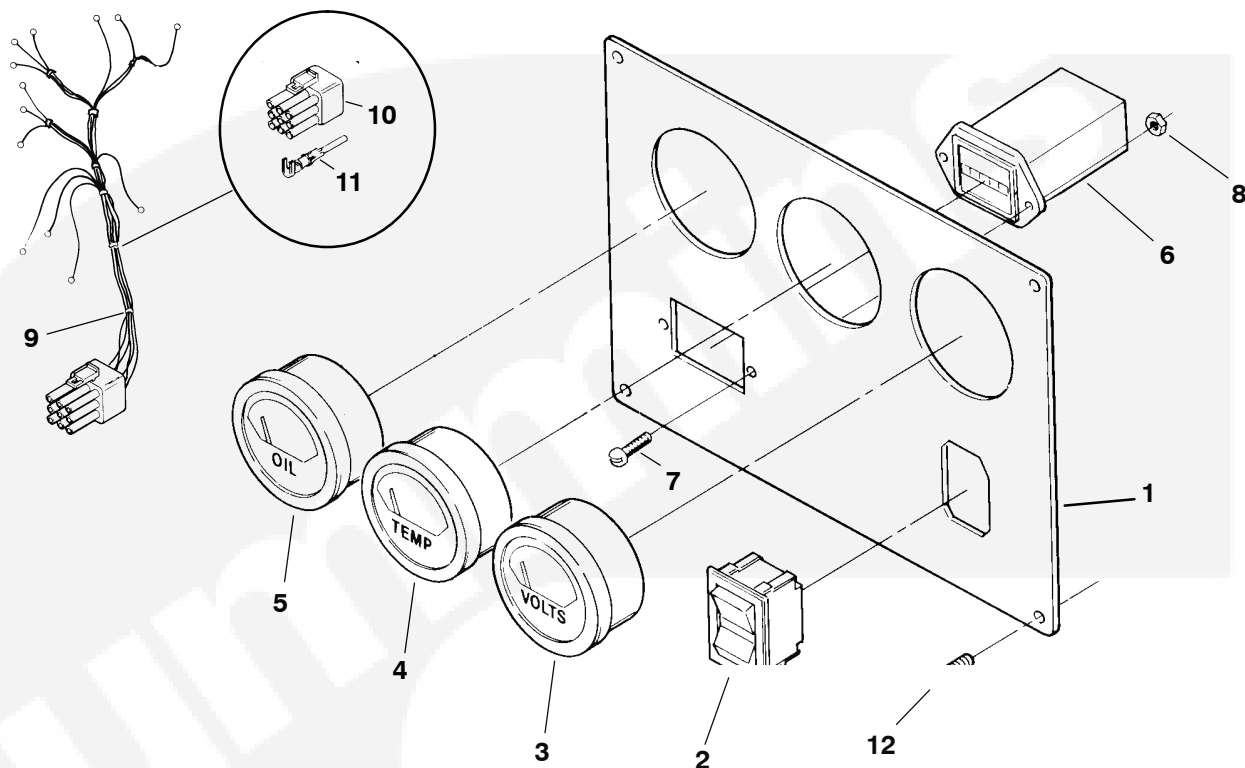


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-3470	1	Kit, Remote Panel	8	323-1199	AR	Pin, Contact
1	302-0885	1	*Meter, Time Totalizing	9	323-1291	1	Plug (9 Pin)
2	870-0183	2	*Nut, Hex (#6-32)	10		1	*Diode and Lead Assy (Includes Parts Marked +)
3	302-0888	1	*Meter, Battery Condition	11	226-1132	1	+Lead Assy
4	308-0827		*Switch, Rocker 12V	12	808-0023	4	Screw, Round Head Sheet Metal (#8 x 1/2")
5	319-0492	1	*Panel, Remote (Does Not Include Decals)				
6	815-0385	2	*Screw, Round Head Machine (#6-32 x 1/2")				
7	338-2362-01	1	*Harness, Remote Panel (Reaches From Extension Harness to Remote Panel) (Includes Pins and Plug)				

* - Parts Included in Remote Control Panel Kit.

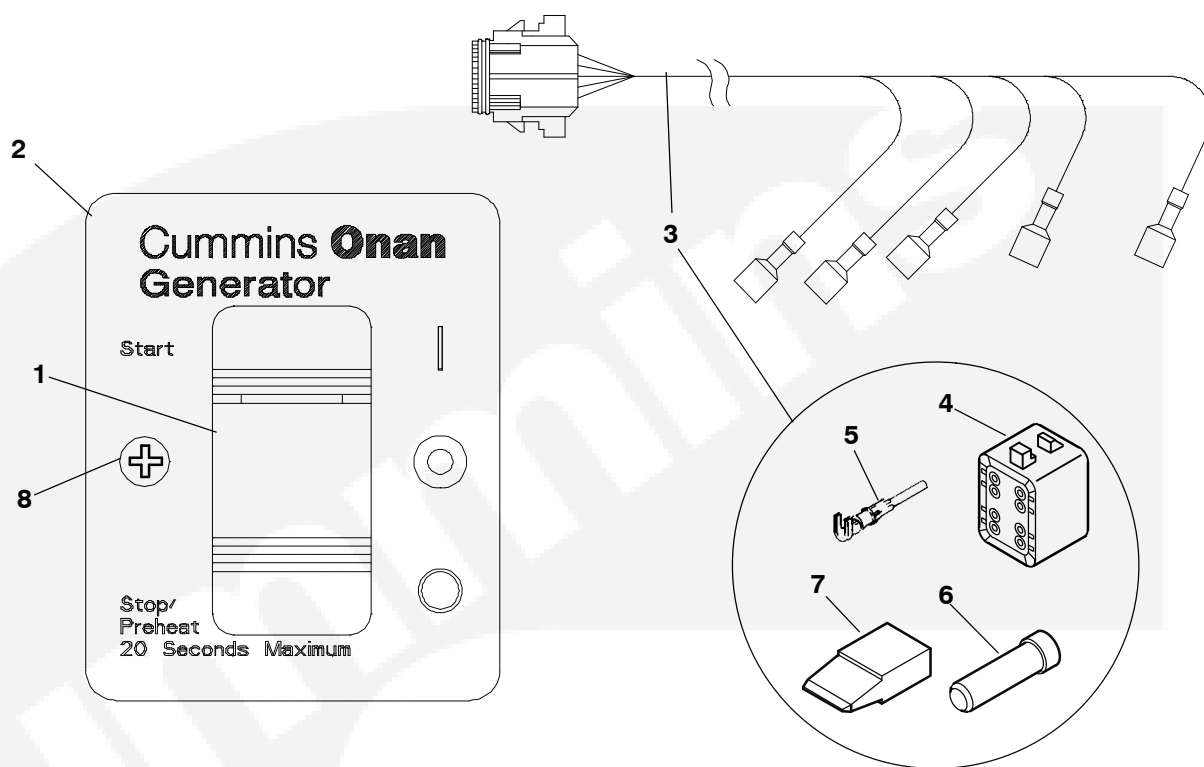
+ - Parts Included in Diode & Lead Assy.

Remote Gage Control Panel (Spec A-B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4261	1	+ Kit, Remote Meter Panel				(Reaches From Extension Harness to Remote Panel)
1	319-0141	1	Panel, Remote (Without Decals)				(Includes Housing and Pins)
2	308-0827	1	Switch, Rocker SPDT (S11)	10	323-1291	1	Housing, Connector (P4)
3	302-1641	1	Meter, Voltage	11	323-1199	7	Pin, Contact
4	193-0351	1	Gauge, Coolant Temperature (Includes Mounting Hardware) (M13)	12	808-0023	4	Screw, Round Head Sheet Metal (#8 x 1/2")
5	193-0352	1	Gauge, Oil Pressure (M12) (Includes Mounting Hardware)	+ - Kit Also Includes Water Temperature Sender (Found on Water Flange Page and Oil Pressure Sender (Found on Gearcase Page)			
6	302-0885	1	Meter, Time Totalizing (M11)				
7	815-0385	2	Screw, Round Head Machine (#6-32 x 1/2")				
8	870-0183	2	Nut, ET Hex (#6-32)				
9	338-2222-02	1	Harness, Remote Panel				

Basic Remote Control Panel (Begin Spec C)

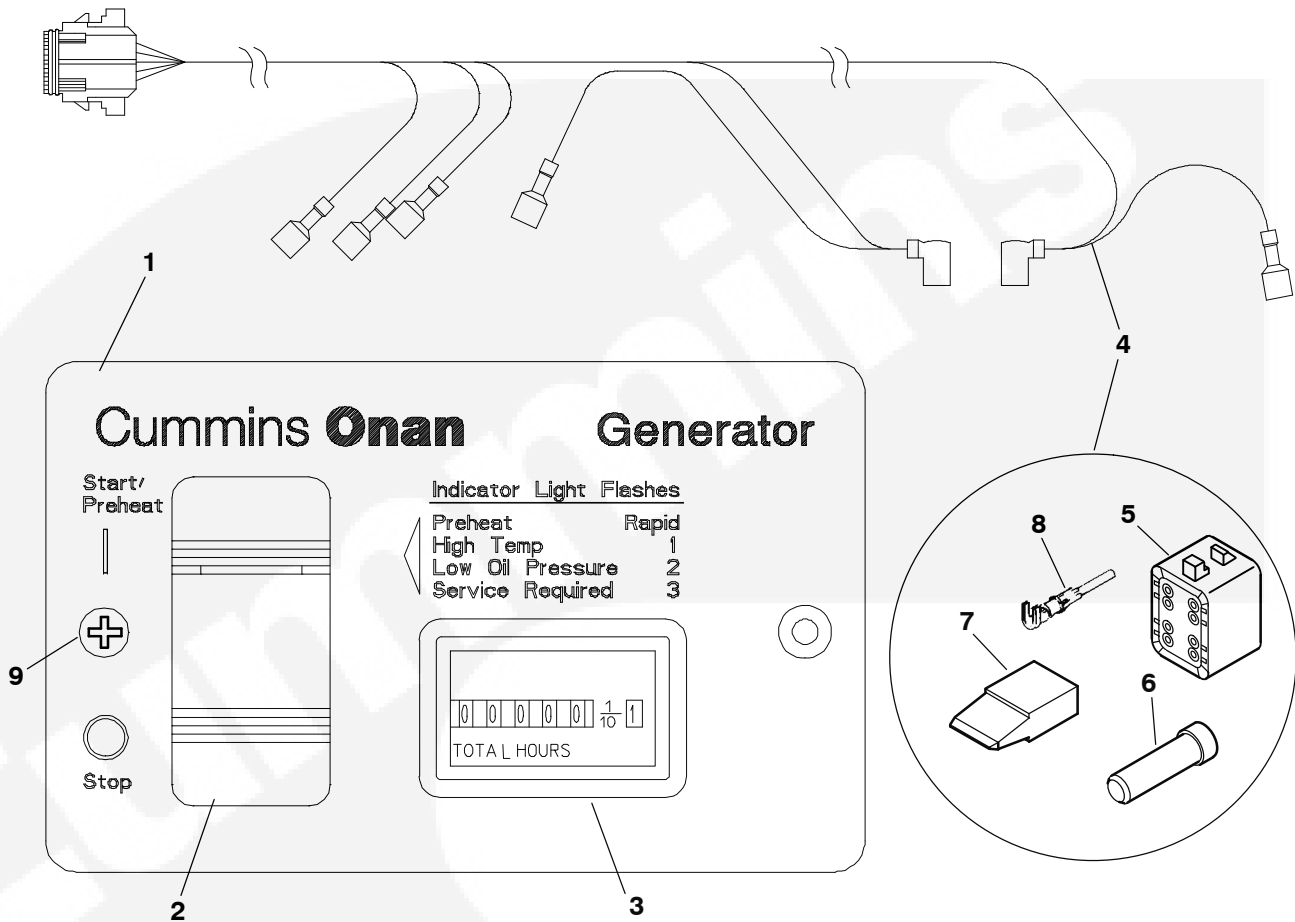


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4990-01	1	Kit, Basic Panel
1	308-1062	1	Switch, Rocker (S11)
2	319-6987-02	1	Panel, Remote (Includes Printing)
3	338-3598	1	Harness, Remote Panel (Reaches From Extension Harness to Remote Panel) (Includes Parts Marked *)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	323-1541	1	*Plug (8 Pin) (J4)
5	323-1492	5	*Pin, Contact
6	323-1591	3	*Plug, Seal
7	323-1543	1	*Wedge, Plug (8 Pin)
8	815-0910	2	Screw, Wood (#6 x 1)

* - Parts Included in Remote Panel Harness.

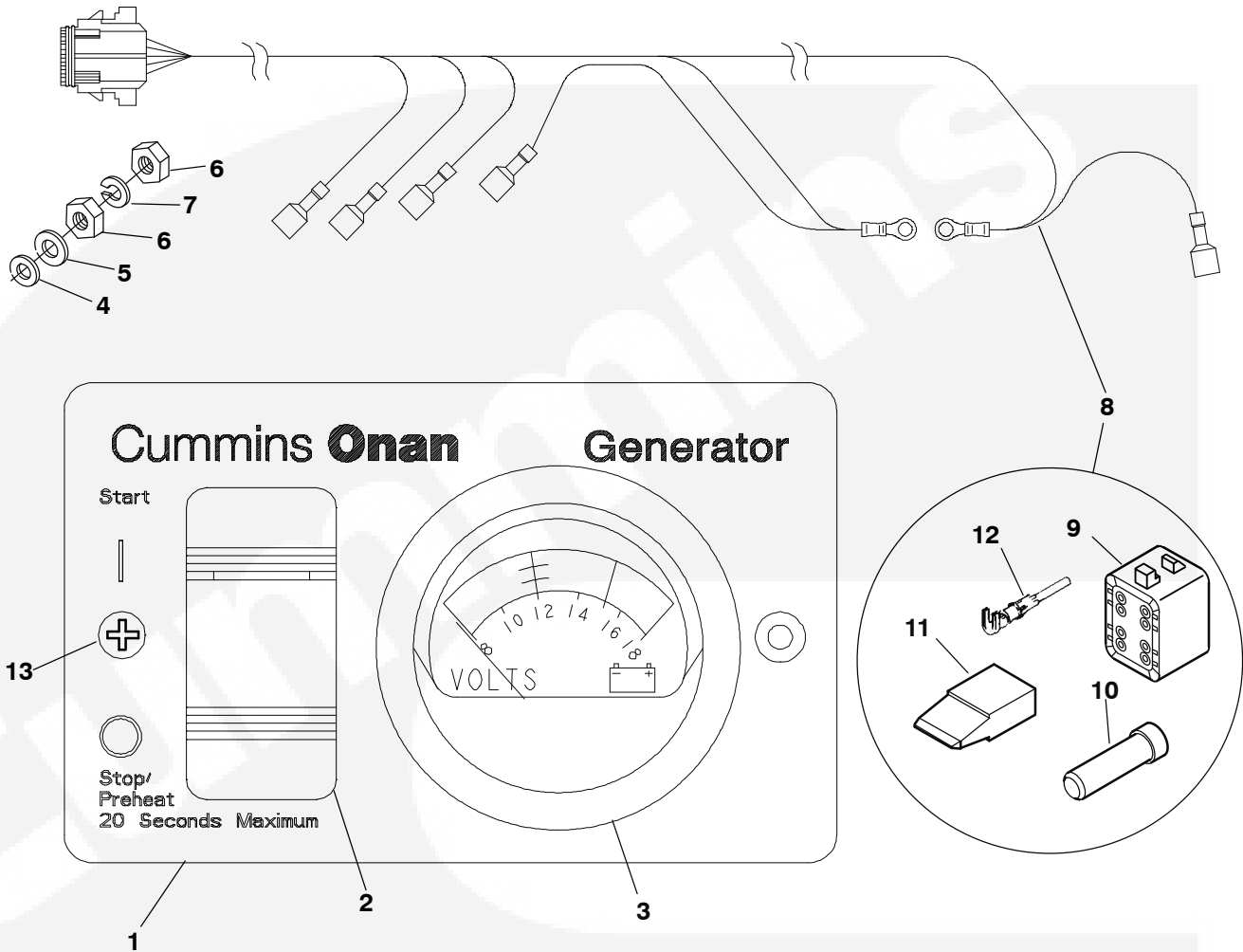
Deluxe Remote Control Panel **W/Hour Meter** **(Begin Spec C)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4991-01	1	Kit, Deluxe Panel	5	323-1541	1	*Plug (8 Pin) (J4)
1	319-6988-02	1	Panel, Remote Printed	6	323-1591	3	*Plug, Connector
2	308-1062	1	Switch, Rocker (S11)	7	323-1543	1	*Wedge, Plug (8 Pin)
3	302-2002	1	Meter, Hour (M11)	8	323-1492	5	*Pin, Contact
4	338-3599	1	Harness, Remote Panel (Reaches From Extension Harness to Remote Panel) (Includes Parts Marked *)	9	815-0910	2	Screw, Wood (#6 x 1)

* - Parts Included in Remote Panel Wiring Harness.

Deluxe Remote Control Panel W/Volt Meter (Begin Spec C)

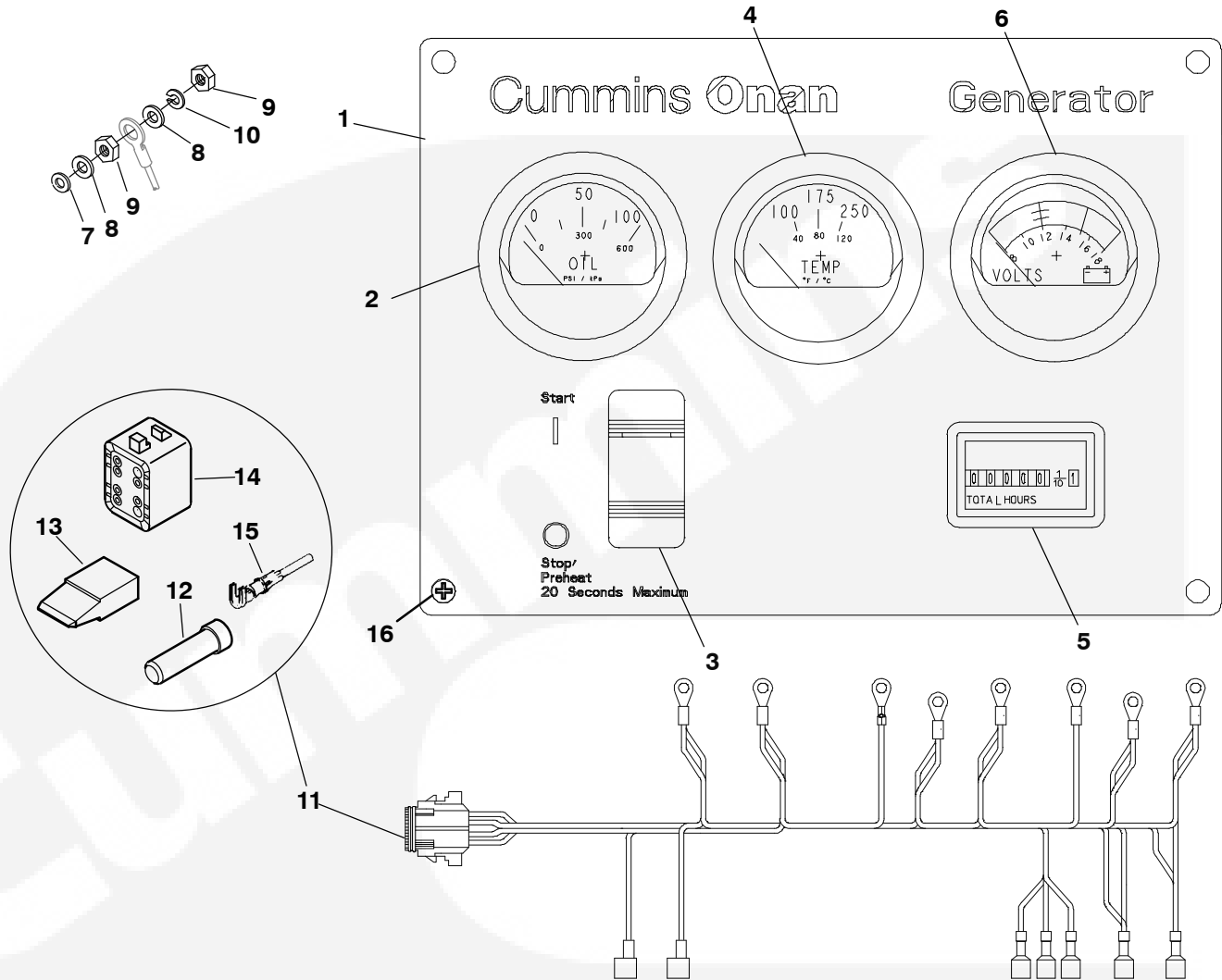


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4989-01	1	Kit, Remote Panel
1	319-6989-01	1	Panel, Remote Printed
2	308-1062	1	Switch, Rocker (S11)
3	302-1641	1	Meter, Volt (M14) (8-18V)
4	526-0409	2	+Washer, Nylon
5	526-0049	4	+Washer, Flat
6	871-0010	4	+Nut, Hex Brass (10-32)
7	850-0030	2	+Washer, Lock
8	338-3597	1	Harness, Remote Panel (Reaches From Extension Harness to Remote Panel) (Includes Parts Marked *)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	323-1541	1	*Plug (8 Pin) (J4)
10	323-1591	3	*Plug, Connector
11	323-1543	1	*Wedge, Plug (8 Pin)
12	323-1492	5	*Pin, Contact
13	815-0910	2	Screw, Wood (#6 x 1)

* - Parts Included in Remote Panel Wiring Harness.
+ - Parts Included in Remote Panel Assembly.

Remote Gauge Control Panel (Begin Spec C)

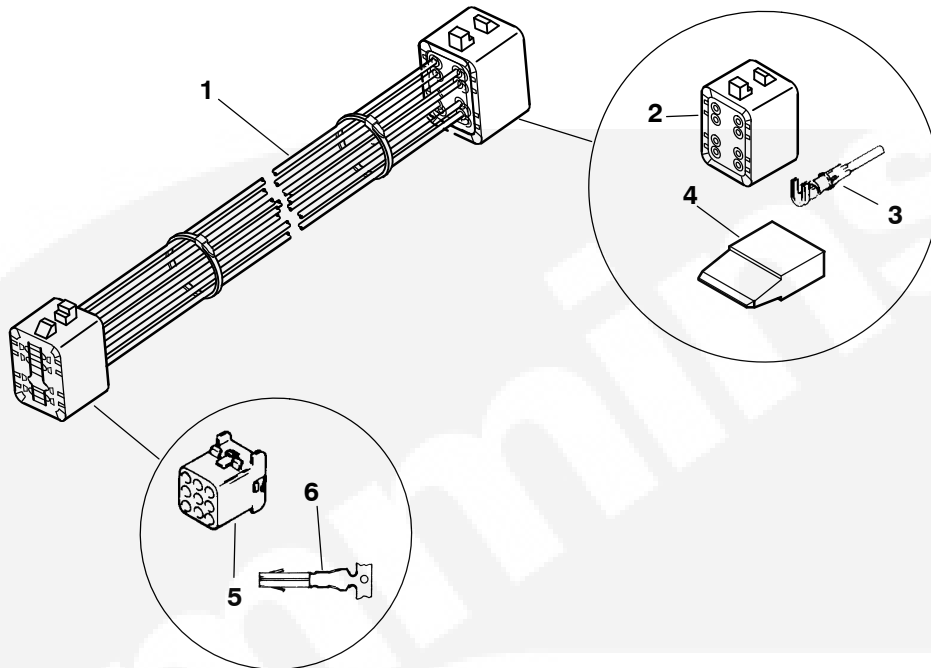


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-5018-01	1	Kit, Remote Gauge Panel	12	323-1591	1	+ Plug, Seal
1	319-3254-02	1	Panel, Remote	13	323-1543	1	+ Wedge, Plug (8 Pin)
2	193-0352	1	Gauge, Oil Pressure (M12)	14	323-1541	1	+ Plug (8 Pin) (P4)
3	308-1062	1	Switch, Rocker (SPDT) (S11)	15	323-1492	7	+ Contact, Socket
4	193-0351	1	Gauge, Water Temperature (M13)	16	808-0023	4	Screw, Pan Head Sheet Metal (#8 x .50)
5	302-2002	1	Meter, Running Time (M11)				
6	302-1641	1	Meter, Volt (M14) (8-18V)				
7	526-0409	8	Washer, Nylon (.194")				
8	526-0049	16	Washer, Brass Flat (#10-32)				
9	871-0010	16	Nut, Brass Hex (#10-32)				
10	850-0030	8	Washer, Lock (#10)				
11	338-3625	1	Harness, Remote Panel (Reaches From Extension Harness to Remote Panel) (Includes Parts Marked +)				

+ - Parts Included in Remote Panel Harness.

+ - Parts Included in Remote Panel Assembly.

Adapter Harness (Begin Spec C)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			*Harness, Adapter (Includes Parts Marked °)
	338-3695	1	Single Circuit for On/Off /Preheat
	338-3696	1	Two Circuits for On/Off and Preheat
2	323-1541	1	°Plug (9 Pin)
3	323-1492	AR	°Terminal, Socket

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	323-1543	1	°Wedge, Plug (8 Pin)
5	323-1325	1	°Cap, Connector
6	323-1200	AR	°Socket, Contact

* – See Accessory Manual for Application Description.
 ° – Parts Included in Adapter Harness.

Labels, Gasket Kits

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	98-6581-02	1	Label, AC Control – Front		185-5528	1	MDKUB
	98-6586-02	1	Label, Batt Neg		185-5807	1	MDKWB
	98-7180-02	1	Label, Batt Pos				*Seal, Valve Stem
			Label, Coolant		185-5348	4	MDKUB
	98-5161	2	Housed		185-5348	6	MDKWB
	98-5161	1	Unhoused				*Gasket, Cylinder Head
	98-5347	1	Label, Danger (High Voltage)		185-5339	1	MDKUB
	98-6585-02	2	Housed		185-6120	1	MDKWB
	98-6585-02	1	Unhoused				*Seal, O'Ring
	98-6388-01	1	Label, Information – Phone		185-2284	5	MDKWB
	98-6997	1	Label, Lifting Eye		185-5413	1	*Gasket, Oil Pump
	98-6197	1	Label, Neutral		185-2284	4	*Seal, Oil
			Label, No Step		185-7080	1	*Gasket, Speed Control Plate
	98-6996	3	Housed		185-5720	1	*Gasket, Water Flange
	98-6996	1	Unhoused		185-2238	1	*Gasket, Thermostat Cover
	98-5338	1	Label, No Step		132-0342	1	*Gasket, Water Pump
	98-6996	3	Label, No Step		132-0309	1	*O'Ring, Water Pump
			Label, Oil Recommendations				*Gasket, Exhaust Manifold
	98-6574	1	MDKUB		185-6851	1	MDKUB
	98-6575	1	MDKWB		185-6852	1	MDKWB
	98-6995	2	Label, Warning		154-2876	1	*Gasket, Exhaust Elbow
	98-6074-02	1	Label, Warning – Toxicity		185-2349	1	*Seal, Oil Fill Cap
	98-5755	1	Label, Warning – Hazardous		185-2309	5	*Gasket, Oil Fill
			Voltage/Backfeed		185-5337	2	*Gasket, Injection Nozzle
			Label, Warning		185-6009	1	*Seal Assy, Mach (Water Pump)
	98-7244	1	Housed		185-2349	1	*Seal, O'Ring (Oil Fill)
	98-7244	2	Unhoused		185-2374	3	*Seal, Oil (Gearcase)
	98-4730	1	Label, Warning		185-5870	1	*Seal, Oil (Gearcase)
	123-2136	1	Kit, Dipstick (Includes Following Parts Marked #)		185-3078	1	*Seal, Oil Pickup
					185-2347	1	*O'Ring, Governor
	123-2137	1	#Indicator, Oil Level		185-2095	1	*Seal, O'Ring
	123-2135-02	1	#Tube Assy				*O'Ring, Injection Pump
	509-0348	1	#O'Ring		185-5643	2	MDKUB
	405-6311	1	#Cover, Access		185-5643	3	MDKWB
	123-2138-02	1	#Spacer, Oil Indicator		185-5641	2	*Gasket, Delivery Valve
	800-6038	1	#Screw, Hex Heac Cap (M6 x 1 x 40mm)		185-5820	1	Gasket, Injection Pump
					185-5691	1	*O'Ring
	818-0194-01	5	#Rivet, Stainless Steel		185-5584	1	*O'Ring
	818-0194-02	11	#Rivet, Stainless Steel		185-5437	1	*Seal, Oil
	815-0439	1	#Screw, Hex Head Self Tapping (#8 x 1/2")		185-5744	1	*O'Ring
					185-5743	1	*O'Ring
	098-7547	1	#Label, Oil Lever		185-5410	1	*Seal, Front Oil
	526-0257	1	#Washer, Flat		185-5513	1	*Gasket, Hole Cover
	M-104	1	#Sheet, Instruction		185-6580	1	*Gasket, Hole Cover
					185-5646	4	*O'Ring
			Kit, Engine Overhaul Gasket (Includes Parts Marked *)		185-5434	1	*Gasket, Water Pump
	168-0223	1	MDKUB				Kit, Housing
	168-0224	1	MDKWB		405-5211-01	1	MDKUB
	185-5438	1	*Gasket, Bearing Housing		405-5211-02	1	MDKWB
	185-5439	1	*Gasket, Bearing Case Cover				Kit, Enhancement
			*Gasket, Oil Pan		541-0467	1	MDKUB
	185-5493	1	MDKUB		541-0468	1	MDKWB
	185-6818	1	MDKWB				
	185-5495	1	*Gasket, Oil Drain				
	185-7382	1	*Gasket, Gearcase				
			*Gasket, Head Cover				

– Parts Included in Dipstick Kit.

* – Parts Included in Engine Overhaul Gasket Kit.

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>
098-4730, 106		110-3991, 34		132-0342, 65 , 106		150-2973, 23	
098-5161, 106		110-4112, 9		132-0492, 51		150-2974, 23	
098-5338, 106		112-0332, 15		132-0493, 51		150-2975, 23	
098-5347, 106		115-0025, 56		132-0517, 51		150-2976, 23	
098-5755, 106		122-0912, 46		140-2755-02, 70		154-2874, 73	
098-5945, 98		123-1988, 68		140-2756-02, 70		154-2875, 73	
098-6074-02, 106		123-2135-02, 106		147-0980, 27		154-2876, 73 , 106	
098-6197, 106		123-2136, 106		147-0981, 27		154-2877, 73	
098-6388-01, 106		123-2137, 106		149-1908-05, 61 , 62		155-1002, 60 , 74	
098-6574, 106		123-2138-02, 106		149-1914-01, 62		155-1252, 94	
098-6575, 106		123-2268, 44		149-1949, 62		155-2029, 60 , 74	
098-6581-02, 106		123-2294, 43		149-1952, 62		155-2673-01, 73	
098-6585-02, 106		123-2351, 43		149-1953, 62		155-2674-01, 73	
098-6586-02, 106		130-0632, 65		149-2041-03, 61		155-2779-01, 70	
098-6995, 106		130-2333, 73		149-2045, 62		155-2779-02, 70	
098-6996, 106		130-3571, 66		149-2046, 62		155-3147, 74	
098-6997, 106		130-3572, 66		149-2047, 62		155-3216, 60	
098-7180-02, 106		130-3574, 66		149-2073, 61		155-3217, 60	
098-7244, 106		130-3721, 73		149-2100, 58 , 59		155-3239, 74	
098-7547, 106		130-4070-02, 65		149-2393-02, 57 , 58 , 59		168-0223, 106	
100-3440, 49		130-4071-02, 65				168-0224, 106	
100-3943, 10		130-4072-02, 65		149-2464, 57 , 58		179-2662-S0, 73	
100-4105, 9		130-4073-02, 65		149-2467, 59		179-2663, 73	
102-1439, 68		130-4363-03, 82		149-2468, 57 , 58		181-9000, 43 , 44 , 46	
102-1440, 68		130-4983-02, 65		149-2469, 57 , 58		181-9012, 34	
102-1568, 69		130-4984-02, 65		149-2470, 59		181-9013, 49	
103-0843, 46		130-5176, 65		149-2471, 59		181-9023, 46	
103-0844, 49		132-0295, 65		149-2479, 57 , 58 , 59		181-9024, 43	
103-0860, 46		132-0297, 65		149-2546, 57 , 58 , 59		181-9034, 46	
104-1794, 19		132-0298, 65		149-2593-03, 58 , 59		181-9037, 15	
104-1818, 19		132-0299, 65		149-2594-03, 58 , 59		181-9038, 27	
104-1819-01, 19		132-0306, 65		149-2595, 58		181-9039, 25	
104-1819-02, 19		132-0308, 65		149-2596, 58 , 59		181-9041, 23	
104-2099, 15		132-0309, 65 , 106		149-2597, 59		181-9046, 21	
105-0740, 15		132-0310, 65		149-2598, 59		181-9048, 72	
105-0768, 18		132-0311, 65		150-1733, 56		181-9053, 27	
105-0769, 27		132-0336, 65		150-2520-02, 56		181-9055, 39	
110-3990, 34		132-0341-02, 56		150-2536-02, 56		181-9056, 23	
				150-2972, 23			

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>
181-9057, 23		181-9253, 44		185-2188, 8 , 9 , 30		185-2388, 9 , 27 , 40 , 53	
181-9058, 25		181-9256, 72		185-2233, 8 , 9 , 10			
181-9059, 41		184-0011, 46		185-2234, 8 , 9 , 10 , 45 , 46		185-2389, 22 , 26 , 27 , 34 , 41 , 45 , 49 , 71 , 72	
181-9066, 51		184-0015, 45 , 49		185-2238, 40 , 41 , 106		185-2390, 20	
181-9071, 15		184-0017, 23		185-2245, 55		185-2391, 21	
181-9072, 15		184-0019, 23		185-2246, 55		185-2393, 24	
181-9075, 26		184-0021, 14 , 16		185-2249, 55		185-2394, 49	
181-9076, 18		184-0043, 45		185-2267, 55		185-2395, 46 , 49	
181-9081, 27		184-0057, 23		185-2268, 55		185-2397, 45 , 49	
181-9082, 27		184-0063, 40		185-2269, 55		185-2398, 45	
181-9083, 27		184-0064, 40		185-2270, 55		185-2403, 53	
181-9084, 37 , 38 , 39		185-2016, 13 , 14 , 15 , 16		185-2271, 55		185-2405, 52	
181-9107, 41 , 43		185-2022, 13 , 15 , 16		185-2272, 55		185-2411, 30	
181-9153, 10		185-2023, 13 , 15 , 16		185-2283, 22		185-2412, 10	
181-9157, 34		185-2026, 13 , 14 , 15 , 16		185-2284, 22 , 23 , 37 , 38 , 39 , 42 , 106		185-2413, 30	
181-9159, 18				185-2296, 46 , 49		185-2424, 93	
181-9161, 15		185-2028, 13 , 15 , 16		185-2309, 46 , 49 , 106		185-2439, 22	
181-9162, 14 , 15 , 16		185-2029, 13 , 16		185-2338, 22 , 23		185-2559, 20 , 21 , 40 , 50 , 51	
181-9163, 14 , 15		185-2030, 13 , 14 , 15 , 16		185-2342, 22		185-2572, 53	
181-9164, 69		185-2031, 13 , 14 , 15 , 16		185-2345, 35 , 38 , 39		185-3078, 68 , 106	
181-9166, 27		185-2033, 13 , 14 , 15 , 16		185-2347, 22 , 106		185-4255, 22 , 33 , 46	
181-9167, 37 , 38		185-2080, 27		185-2349, 42 , 49 , 106		185-5335, 71	
181-9168, 37 , 38		185-2094, 8 , 9 , 10		185-2351, 33 , 34		185-5337, 35 , 37 , 38 , 39 , 106	
181-9177, 38		185-2095, 8 , 10 , 30 , 106		185-2353, 13 , 14 , 16 , 26		185-5339, 30 , 106	
181-9179, 16		185-2115, 8 , 9 , 10		185-2357, 26 , 27		185-5348, 33 , 34 , 106	
181-9182, 27		185-2116, 19		185-2366, 19 , 53		185-5350, 13 , 14 , 15 , 16	
181-9185, 40 , 41		185-2124, 45 , 46 , 49		185-2367, 54		185-5351, 13	
181-9202, 38		185-2163, 26		185-2374, 106		185-5356, 13	
181-9214, 52		185-2171, 55		185-2379, 24		185-5357, 13 , 14 , 15 , 16	
181-9238, 43		185-2173, 24		185-2380, 26 , 33 , 49		185-5358, 13 , 14 , 16	
181-9240, 43 , 44		185-2180, 22		185-2384, 43 , 44		185-5359, 17	
181-9244, 72		185-2181, 55		185-2385, 35 , 37 , 38 , 39		185-5360, 13 , 14 , 15 , 16	
181-9245, 43		185-2183, 55		185-2386, 17 , 18 , 26 , 33 , 54		185-5361, 13 , 14 , 16	
181-9246, 43		185-2185, 55		185-2387, 17 , 18		185-5363, 36	
181-9248, 43 , 44		185-2186, 55					
181-9249, 44							
181-9251, 34							
181-9252, 44							

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>
185-5364, 36		185-5402, 36		185-5493, 68 , 106		185-5543, 33	
185-5365, 36		185-5403, 36		185-5495, 68 , 106		185-5544, 33	
185-5366, 36		185-5404, 36		185-5496, 68		185-5545, 33	
185-5367, 36		185-5405, 36		185-5497, 69		185-5546, 33	
185-5368, 36		185-5406, 36		185-5498, 30		185-5547, 33	
185-5369, 36		185-5407, 42 , 49		185-5500, 30		185-5548, 33	
185-5370, 36		185-5410, 45 , 46 , 49 , 106		185-5501, 30		185-5549, 33	
185-5371, 36		185-5412, 8		185-5502, 30		185-5550, 33 , 34	
185-5372, 36		185-5413, 8 , 9 , 10 , 106		185-5503, 30		185-5551, 33 , 34	
185-5373, 36				185-5505, 49		185-5552, 33 , 34	
185-5374, 36		185-5414, 8 , 9 , 10		185-5506, 45 , 46 , 49		185-5553, 33 , 34	
185-5375, 36		185-5415, 8 , 9 , 10		185-5507, 45 , 46 , 49		185-5554, 17	
185-5376, 36		185-5416, 8 , 9 , 10		185-5508, 45		185-5555, 17 , 18	
185-5377, 36		185-5419, 35		185-5509, 45 , 46 , 49		185-5558, 17	
185-5378, 36		185-5421, 35 , 37 , 38 , 39		185-5510, 45 , 46 , 49		185-5559, 17	
185-5379, 36				185-5512, 46 , 49		185-5560, 15 , 17 , 18 , 27	
185-5380, 36		185-5428, 93		185-5513, 46 , 49 , 106		185-5561, 17 , 18	
185-5381, 36		185-5429, 19		185-5514, 20		185-5562, 17	
185-5382, 36		185-5431, 53 , 55		185-5515, 20 , 21		185-5563, 17 , 18	
185-5383, 36		185-5433, 50		185-5516, 20 , 21		185-5564, 17 , 18	
185-5384, 36		185-5434, 50 , 106		185-5517, 20		185-5565, 17 , 18	
185-5385, 36		185-5437, 20 , 21 , 106		185-5519, 20		185-5566, 13 , 14 , 16	
185-5386, 36		185-5438, 20 , 21 , 106		185-5520, 42		185-5567, 13	
185-5387, 36		185-5439, 20 , 21 , 106		185-5521, 42		185-5568, 13 , 14 , 15 , 16	
185-5388, 36		185-5458, 40 , 41		185-5522, 42		185-5569, 13	
185-5389, 36		185-5475, 40 , 41		185-5523, 42		185-5570, 13 , 14 , 15 , 16	
185-5390, 36		185-5481, 8		185-5524, 42		185-5571, 13 , 14 , 15 , 16	
185-5391, 36		185-5482, 8 , 9 , 10		185-5525, 42		185-5572, 13 , 14 , 16	
185-5392, 36		185-5483, 8 , 9 , 10		185-5527, 42		185-5573, 13 , 14 , 15 , 16	
185-5393, 36		185-5484, 8 , 9 , 10		185-5528, 42 , 106		185-5574, 13	
185-5394, 36		185-5485, 8 , 9 , 10		185-5529, 42		185-5575, 13 , 14 , 16	
185-5395, 36		185-5486, 8 , 9 , 10		185-5531, 71		185-5576, 13 , 14 , 15 , 16	
185-5396, 36		185-5487, 8 , 9 , 10		185-5537, 33		185-5577, 13 , 14 , 15 , 16	
185-5397, 36		185-5488, 8 , 9 , 10		185-5538, 33			
185-5398, 36		185-5489, 8 , 9 , 10		185-5539, 33 , 34			
185-5399, 36		185-5490, 8 , 9 , 10		185-5540, 33 , 34			
185-5400, 36		185-5491, 8 , 9 , 10		185-5541, 33 , 34			
185-5401, 36		185-5492, 9 , 10		185-5542, 33			

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>
185-5578, 13 , 14 , 15 , 16		185-5634, 26 , 27		185-5692, 22		185-5792, 40	
185-5579, 13 , 14 , 15 , 16		185-5635, 26 , 27		185-5693, 22		185-5798, 9 , 26 , 27	
185-5580, 13 , 14 , 15 , 16 , 21		185-5639, 29		185-5696, 22 , 24 , 25		185-5802, 24 , 25	
185-5581, 13 , 14 , 15 , 16 , 21		185-5640, 29		185-5698, 24		185-5803, 35	
185-5582, 13 , 14 , 15 , 16		185-5641, 29 , 106		185-5701, 24 , 25		185-5805, 30	
185-5583, 13 , 14 , 15 , 16		185-5642, 29		185-5702, 24 , 25		185-5806, 42	
185-5584, 13 , 106		185-5643, 29 , 106		185-5703, 24 , 25		185-5807, 42 , 106	
185-5587, 19		185-5644, 29		185-5705, 53 , 54		185-5808, 20	
185-5607, 39		185-5645, 29		185-5706, 54		185-5809, 17	
185-5609, 39		185-5646, 29 , 106		185-5707, 53		185-5810, 17	
185-5612, 35 , 37 , 38 , 39		185-5647, 29		185-5708, 54		185-5812, 26	
185-5613, 37		185-5648, 29		185-5709, 53 , 54		185-5814, 26 , 29	
185-5614, 35 , 37 , 38 , 39		185-5649, 29		185-5710, 55		185-5817, 29	
185-5615, 35 , 37 , 38 , 39		185-5650, 29		185-5711, 55		185-5818, 29	
185-5616, 36		185-5651, 29		185-5712, 50 , 51		185-5820, 29 , 106	
185-5617, 36		185-5652, 29		185-5713, 50		185-5821, 35	
185-5618, 36		185-5653, 29		185-5714, 50 , 51		185-5823, 35	
185-5619, 36		185-5654, 29		185-5715, 50		185-5826, 40	
185-5620, 36		185-5655, 29		185-5716, 50		185-5832, 71	
185-5621, 36		185-5656, 29		185-5717, 50 , 51		185-5833, 71 , 72	
185-5622, 36		185-5657, 29		185-5719, 40 , 43		185-5870, 106	
185-5623, 26 , 27		185-5658, 29		185-5720, 40 , 106		185-5924, 18	
185-5624, 26 , 27		185-5659, 29		185-5722, 40 , 41		185-5966, 24 , 25	
185-5625, 26 , 27		185-5660, 27		185-5727, 49		185-5985, 35 , 37 , 38 , 39	
185-5626, 27		185-5661, 27 , 29		185-5741, 49		185-6009, 106	
185-5627, 26		185-5662, 27		185-5742, 46 , 49		185-6046, 68	
185-5628, 26		185-5663, 27		185-5743, 46 , 49 , 106		185-6120, 30 , 106	
185-5629, 26 , 27		185-5680, 22 , 23		185-5744, 46 , 49 , 106		185-6345, 52	
185-5630, 26		185-5681, 22 , 23		185-5745, 46 , 49		185-6347, 53 , 54	
185-5631, 26 , 27		185-5682, 22 , 23		185-5746, 46 , 49		185-6440, 52	
185-5632, 26 , 27		185-5683, 22		185-5747, 42		185-6445, 44	
185-5633, 26 , 27		185-5684, 22		185-5749, 22		185-6580, 9 , 26 , 27 , 106	
		185-5685, 22 , 23		185-5750, 22		185-6627, 52	
		185-5687, 22 , 23		185-5751, 26 , 27 , 29		185-6667, 40 , 41	
		185-5688, 22		185-5753, 29		185-6677, 25	
		185-5689, 22 , 23		185-5755, 24 , 25		185-6704, 8	
		185-5690, 22		185-5756, 24		185-6705, 13	
		185-5691, 22 , 106		185-5765, 52			

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>
185-6707, 29		185-7221, 53 , 54		211-0447, 91		303-0285, 93	
185-6711, 45 , 49		185-7313, 23		211-0448-S2, 91		305-0854-04, 93	
185-6735, 26		185-7382, 45 , 49 , 106		212-1276-03, 91		306-3912, 56	
185-6736, 26		185-7383, 20		212-1285-S0, 91		307-1617, 67 , 93 , 94	
185-6737, 26		185-7384, 17		212-1286-S0, 91		307-2546, 56	
185-6738, 35 , 36 , 37 , 38 , 39		185-7385, 17 , 18		214-0103, 91		307-2594, 93	
185-6739, 26		185-7386, 13 , 14 , 15 , 16		220-4441-01, 91		307-2767, 93	
185-6749, 26		185-7387, 22		220-4441-02, 91		308-0269, 61	
185-6754, 30		185-7388, 22		226-1132, 99		308-0270, 61	
185-6759, 33 , 46 , 49		185-7389, 35		226-4436, 80		308-0827, 98 , 99 , 100	
185-6786, 53		185-7390, 35		226-4632, 80		308-1062, 101 , 102 , 103 , 104	
185-6818, 68 , 106		185-7391, 53 , 54		226-4706-01, 77 , 79		309-0578, 8	
185-6823, 53		185-7392, 53 , 54		232-3296, 91		309-0597, 73	
185-6825, 36		185-7393, 40		232-3632, 91		309-0673, 40 , 41	
185-6851, 73 , 106		185-7394, 33 , 34		232-3633, 91		319-0141, 100	
185-6852, 73 , 106		185-7395, 33 , 34		232-3649, 91		319-0491, 98	
185-6888, 29		185-7396, 93		232-3651, 91		319-0492, 99	
185-6931, 22 , 23		185-7397, 35		232-3671, 91		319-1458-02, 93	
185-6956, 30 , 68 , 69		185-7415, 16		232-3719-02, 91		319-1461-02, 93	
185-6957, 19 , 53 , 54		185-7421, 69		232-3791, 77		319-1657-02, 94	
185-6999, 24 , 25		185-7426, 43 , 44 , 46		232-3856-02, 91		319-1660-02, 93	
185-7004, 35		185-7444, 45 , 49		232-4070, 91		319-1665-02, 93	
185-7069, 40 , 41 , 45 , 46 , 49		185-9020, 15		232-4192, 21		319-1893-02, 93	
185-7071, 42		191-2224-02, 67		232-4193, 21		319-3101-02, 93	
185-7072, 20		191-2507, 54		300-3469, 98		319-3254-02, 104	
185-7073, 20 , 21		191-2508, 52		300-3470, 99		319-4531, 93	
185-7074, 17		193-0244, 45 , 49		300-4261, 100		319-6987-02, 101	
185-7075, 17 , 18		193-0318, 40 , 41		300-4960, 67		319-6988-02, 102	
185-7076, 13 , 14 , 16		193-0351, 100 , 104		300-4989-01, 103		319-6989-01, 103	
185-7080, 22 , 23 , 106		193-0352, 100 , 104		300-4990-01, 101		320-1689-03, 93	
185-7082, 37 , 38		193-0430-01, 45 , 49		300-4991-01, 102		320-1689-04, 93	
185-7083, 53		193-0457-01, 40 , 41		300-5018-01, 104		320-1689-05, 93	
185-7084, 40		201-3350-S1, 91		300-5040, 40 , 41		320-1689-06, 93	
185-7085, 33		201-3350-S2, 91		300-5041, 40 , 41		320-1690-05, 93	
185-7086, 33 , 34		201-3487-S1, 91		302-0885, 93 , 99 , 100		320-1690-10, 93	
185-7087, 71		201-3487-S2, 91		302-0888, 99		320-1690-16, 93	
185-7208, 40		204-0141, 91		302-1641, 100 , 103 , 104		320-1739, 93	
		205-0203, 91		302-2002, 102 , 104		320-1769, 93	

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>
320-1813-02, 93		338-3167, 97		405-4601-03, 87		405-4709, 85	
321-0113, 96		338-3168, 97		405-4606, 85		405-4710, 87	
321-0267, 96		338-3169, 97		405-4608-03, 85		405-4711, 87	
323-1199, 98 , 99 , 100		338-3169-01, 97		405-4609-S1, 81 , 89		405-4712, 85	
323-1200, 97 , 105		338-3169-02, 97		405-4609-S2, 81 , 89		405-4713, 85	
323-1291, 98 , 99 , 100		338-3169-03, 97		405-4611-03, 85		405-4714, 85	
323-1325, 97 , 105		338-3455, 96		405-4612-03, 87		405-4715-03, 89	
323-1491, 97		338-3518, 67		405-4614-01, 87		405-4716-02, 89	
323-1492, 97 , 101 , 102 , 103 , 104 , 105		338-3597, 103		405-4614-02, 87		405-4716-03, 89	
323-1541, 97 , 101 , 102 , 103 , 104 , 105		338-3598, 101		405-4615-03, 87		405-4717-03, 89	
323-1542, 96 , 97		338-3599, 102		405-4616-03, 85		405-4726, 87	
323-1543, 97 , 101 , 102 , 103 , 104 , 105		338-3625, 104		405-4617-03, 85		405-4727-01, 87	
323-1544, 96 , 97		338-3695, 105		405-4619-02, 85		405-4727-02, 87	
323-1563, 93		338-3696, 105		405-4676-03, 87		405-4728-01, 87	
323-1591, 97 , 101 , 102 , 103 , 104		357-0030, 67 , 93		405-4677-03, 87		405-4728-02, 87	
332-1024, 70		370-1137-01, 79		405-4679-03, 81 , 85		405-4729-01, 85	
332-2112, 77 , 79		370-1137-02, 79		405-4681-03, 85		405-4729-02, 85	
332-2112-01, 77 , 79		370-4028, 80		405-4682-01, 85		405-4730-01, 87	
332-2370, 93		402-0282, 80		405-4682-02, 85		405-4730-02, 87	
332-3136, 93		402-0284, 80		405-4684-03, 87		405-4731, 87	
332-3279, 96		402-0290, 80		405-4690, 85		405-4735-01, 85	
332-3286, 79		402-0654, 94		405-4691, 85		405-4735-02, 85	
338-2222-02, 100		403-3348-02, 80		405-4692, 85		405-4738, 87	
338-2362-01, 99		403-3355-S2, 80		405-4693, 85		405-4741-01, 87	
338-2362-02, 98		403-3727-03, 81		405-4694, 87		405-4741-02, 87	
338-2792, 96		403-3728-03, 81		405-4695, 85		405-4744-01, 85	
338-2793, 93		403-4090-02, 19		405-4696, 87		405-4744-02, 85	
338-2794, 93		405-1872, 85 , 89		405-4698, 87		405-4745, 85	
338-2794-01, 93		405-4594-03, 85		405-4699, 87		405-4746-01, 85	
338-2794-02, 93		405-4595-02, 85		405-4700, 87		405-4746-02, 85	
338-2803, 96		405-4595-S2, 81		405-4701, 87		405-4747-01, 85	
338-2874-01, 97		405-4596, 85		405-4702, 87		405-4747-02, 85	
338-2874-02, 97		405-4597-01, 87		405-4703, 85		405-4748-01, 85	
338-2874-03, 97		405-4597-02, 87		405-4704, 85		405-4748-02, 85	
338-2893, 57 , 58 , 59		405-4598-03, 85		405-4705, 85		405-4749, 81 , 85 , 87	
338-3098, 97		405-4599-03, 85		405-4706, 87		405-4750-01, 87	
		405-4600-01, 87		405-4707, 85		405-4750-02, 87	
		405-4600-02, 87		405-4708, 87		405-4751-01, 85	

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>
405-4751-02, 85		405-5672-02, 89		502-1179, 57 , 58 , 59		505-1486, 77	
405-4752, 85		405-5673-02, 89		502-1180, 65		505-1487, 45 , 49	
405-4753-01, 87		405-5806-01, 89		502-1188, 73		505-1489, 77 , 79	
405-4753-02, 87		405-5806-S2, 89		502-1193, 57 , 58 , 59		505-1490, 77 , 79	
405-4754-S0, 85		405-6311, 106		502-1206, 77		505-2519, 46	
405-4761-01, 85		406-0528-01, 89		502-1209, 77 , 79		505-2520, 41	
405-4761-02, 85		406-0528-02, 89		502-1224, 57 , 58 , 59		505-2530, 69	
405-4771-03, 87		406-0742, 85		503-0183, 68		508-0055, 85 , 89	
405-4772-03, 87		406-0744, 89 , 94		503-0191, 68		508-0063, 85 , 89	
405-4979, 89		416-0987-02, 77 , 79		503-0977, 63 , 77 , 79		508-0071, 85 , 89	
405-4986-01, 89		501-0672-01, 77 , 79		503-1136, 65		508-0139, 65	
405-4986-04, 89		501-0672-02, 77 , 79		503-1137, 65 , 73		508-0234, 89	
405-4986-07, 89		501-0672-03, 79		503-1139, 60		508-0258, 93	
405-4989-01, 89		501-1118, 39		503-1142, 60 , 73 , 74		508-0309, 63	
405-4989-04, 89		501-1119, 39		503-1353, 73		508-0328, 79	
405-4992-03, 89		502-0001, 57 , 58 , 59		503-1445-04, 43 , 44		508-0332, 77	
405-4992-04, 89		502-0002, 57 , 58 , 59		503-1496, 77 , 79		508-0334, 79	
405-4994-S1, 89		502-0020-01, 45 , 49 , 57 , 58 , 61		503-1620, 42		508-1057, 94	
405-4994-S2, 89		502-0028, 58 , 59		503-1687-03, 63		508-1085, 91	
405-4997-S1, 89		502-0029, 61		503-1692, 66		508-1105, 96	
405-4997-S2, 89		502-0029-03, 57 , 58		503-1840, 73		509-0196, 91	
405-5006-01, 89		502-0041, 58 , 59		503-1841, 65		509-0348, 106	
405-5006-02, 89		502-0046, 57 , 58		503-1844, 65		509-0420, 91	
405-5048, 85		502-0053, 8 , 57 , 58 , 59		503-1846, 65		510-0163, 26	
405-5049, 85				503-1850, 65		510-0185, 91	
405-5050, 85		502-0090, 63		503-1858, 65		511-0183, 52 , 53 , 54	
405-5051, 85		502-0106, 59		503-1859, 65		516-2142, 23	
405-5052, 85		502-0153, 62 , 65		503-1860, 65		517-0090, 89	
405-5053, 85		502-0243, 59		503-1872-02, 70		517-0122, 89	
405-5054, 85		502-0246, 59		503-1893, 70		517-0132, 93	
405-5055, 89		502-0270, 63		503-2013, 73		517-0134, 89	
405-5149-02, 89		502-0271, 57 , 58		504-0005, 65		517-0137, 85 , 89	
405-5195-S1, 81 , 89		502-0917, 8		504-0062, 63		517-0138, 89	
405-5195-S2, 81 , 89		502-0942, 63 , 77 , 79		504-0194, 68		517-0138-07, 85 , 89	
405-5209-S0, 94		502-0943, 65 , 77 , 79		505-0029, 45 , 49		518-0515, 70 , 73	
405-5210-02, 94		502-1173, 65		505-0100, 68		518-0530-01, 68 , 69	
405-5211-01, 106		502-1177, 57 , 58 , 59		505-1483, 68		518-0649, 91	
405-5211-02, 106		502-1178, 57 , 58		505-1485, 77		520-0998-01, 91	

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>
520-0998-02, 91		800-2034, 56 , 65 , 82		815-0652, 87 , 89		860-2053, 93	
520-2041, 73		800-2041, 82		815-0862, 91		860-2057, 56 , 93 , 94	
526-0003, 85 , 89 , 91		800-2045, 58 , 59		815-0910, 101 , 102 , 103		860-2059, 70	
526-0014, 80		800-2048, 68		816-0151, 81		860-2132, 23	
526-0017, 81		800-2057, 19 , 70		818-0150, 85 , 89		862-0003, 91	
526-0018, 58 , 59 , 68		800-3004, 65 , 70		818-0194, 89		862-0010, 80	
526-0049, 103 , 104		800-3017-20, 19 , 91		818-0194-01, 106		862-0011, 81	
526-0054, 77 , 79		800-3019, 93		818-0194-02, 106		862-0013, 94	
526-0062, 89		800-3020, 94		818-0217-03, 89 , 94		862-0026-30, 67	
526-0065, 58 , 59		800-3021, 93		821-0008, 93		862-0026-54, 73	
526-0077, 81		800-3022, 93		821-0009, 93		870-0131, 67	
526-0122, 67		800-3023, 94		821-0014, 67		870-0183, 99 , 100	
526-0195, 80		800-6029, 93 , 94		821-2020, 57 , 58 , 59		870-0235, 85 , 89	
526-0198, 80		800-6033, 56 , 57 , 58 , 59 , 65		821-5003-03, 81		870-0257, 67	
526-0257, 106		800-6038, 106		850-0020, 93		870-0413, 81 , 85	
526-0399-56, 91		800-6056, 56		850-0030, 103 , 104		870-0550-07, 81	
526-0399-58, 80 , 93 , 94		800-6057, 73		850-0040, 67		870-2055, 58 , 59	
526-0399-60, 19		800-6062, 53		850-0045, 67 , 77		871-0010, 103 , 104	
526-0399-61, 81		800-6065, 19		850-0050, 19		871-0025, 77 , 79	
526-0400, 57 , 58 , 59		800-6085, 70		850-0065, 77		A026K278, 58 , 59	
526-0401, 57		800-6330, 43 , 44		850-0114-53, 56 , 57 , 58 , 59 , 65 , 68 , 73 , 93 , 94			
526-0406, 77 , 79		800-6436, 54		850-0114-54, 19 , 56 , 73 , 91			
526-0409, 103 , 104		800-6505, 69		850-0114-55, 65			
526-2080, 94		800-6515, 46		850-2008, 19 , 91			
526-2081, 82		802-0072, 19		853-0005, 73			
526-2100, 19 , 30 , 70		808-0023, 98 , 99 , 100 , 104		853-0013, 94			
541-0467, 106		812-0060, 67		853-0016, 67			
541-0468, 106		812-0061, 93		853-0040-51, 93			
541-0863-02, 63		813-0100, 67		853-0040-53, 93			
541-1608, 93		814-0148, 85 , 89		853-0040-54, 80 , 94			
718-1037, 91		814-0176, 81 , 85		855-0013, 81 , 85			
740-1004, 33		815-0142, 85		856-0006, 57 , 58 , 59			
740-1006, 33		815-0261, 70 , 80 , 94		856-0008, 30			
750-1006, 70		815-0290, 94		856-0010, 81			
800-0005, 67		815-0385, 99 , 100		860-0010, 73			
800-0026, 81 , 85		815-0439, 106		860-2020, 93			
800-0081, 80		815-0573, 89					
800-0309-89, 91							

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