



Parts Manual

Cummins **Onan**

Performance you rely on.™



Marine Generator Set

MDKBD (Spec A-B)
MDKBE (Spec A-B)
MDKBF (Spec A-B)

MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Onan nameplate.

For handy reference, insert your nameplate information in the spaces below.

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

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



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



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



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

PRODUCT SAFETY PRECAUTIONS



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



Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.



Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!



Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives or using solvents take all necessary precautions not to ingest, breathe the fumes or contact the liquids. Use adequate ventilation and wear protective gloves, masks and protective clothing!



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

Introduction

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

<u>MODEL</u>	<u>HERTZ</u>
MDKBD/*	50/60
MDKBE/*	50/60
MDKBF/*	50/60

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

WIRING DIAGRAM

612-6667	DC 24V
612-6665	DC 12V
612-6666	AC 1 Phase
612-6673	AC 3 Phase

Index

A

Actuator, Governor, **50**
Adapter, Dry Exhaust, **72**
Adapter, Engine, **18**
Adapter, Fuel Return Pipe, **52**
Adapter, Hose (MDKBD, MDKBE), **56**
Adapter, Keel Cooling, **61**
Adapter, Oil Drain (MDKBD, MDKBE), **66**
Adapter, Oil Drain (MDKBF), **67**
Adapter, Pipe, **51**
Alternator (Isolated Ground), **49**
Alternator (MDKBD, MDKBE, Negative Ground), **45**
Alternator (MDKBF, Negative Ground), **46**
Arm Assy, Rocker (MDKBD, MDKBE), **36**
Arm Assy, Rocker (MDKBF), **37**
Armature, Starter (12V), **19**
Armature, Starter (24V), **20**
Assy, Glow Plug, **38**
Assy, Panel, **94**

B

Baffle, Air, **89**
Baffle, Generator, **81**
Ball, Crankshaft (MDKBD, MDKBE), **14**
Ball, Crankshaft (MDKBF), **15**
Ball, Valve Seat, **43**
Band, Pipe, **40**
Bar, Bus, **77**
Barb, Keel Cooling (Dry Exhaust), **63**
Barb, Keel Cooling (Wet Exhaust), **61**
Base, Filter, **51**
Base, Generator Mounting, **76**
Base, Mounting, **76**
Bearing, Alternator (Negative Ground, 12V), **47**
Bearing, Alternator (Negative Ground, 24V), **48**
Bearing, Connecting Rod, **17**
Bearing, Coolant Water Pump, **44**
Bearing, Crankshaft (MDKBD, MDKBE), **14**
Bearing, Crankshaft (MDKBF), **15**

Bearing, Crankshaft Thrust (MDKBF), **15**
Bearing, Fuel Camshaft, **23 , 24 , 25**
Bearing, Generator, **89**
Bearing, Main (MDKBF), **15**
Bearing, Starter (12V), **19**
Bearing, Starter (24V), **20**
Belt, Alternator (Isolated Ground), **49**
Belt, Alternator (MDKBF, Negative Ground), **46**
Belt, Alternator (MDKBD, MDKBE, 12V/24V), **45**
Block, Cylinder (MDKBD, MDKBE), **12**
Block, Cylinder (MDKBF), **13**
Box, Control, **92 , 93**
Bracket Assy, Solenoid, **75**
Bracket, Alternator (Isolated Ground), **49**
Bracket, Alternator (MDKBD, MDKBE, Negative Ground), **45**
Bracket, Alternator Adjusting (MDKBF, Negative Ground), **46**
Bracket, Baffle, **81**
Bracket, Belt Guard, **78**
Bracket, Fuel Pump, **51**
Bracket, Heat Exchanger, **59**
Bracket, Isolated Ground, **75**
Bracket, Lifting (MDKBD, MDKBE), **12**
Bracket, Lifting (MDKBF), **13**
Bracket, Mounting Pad, **68**
Bracket, Oil Drain (MDKBD, MDKBE), **66**
Bracket, PTO, **68**
Bracket, PTO (Left), **68**
Bracket, PTO (Right), **68**
Bracket, Remote Separator Mounting, **53**
Bracket, Rocker Arm (MDKBD, MDKBE), **36**
Bracket, Rocker Arm (MDKBF), **37**
Bracket, Starter (12V), **19**
Bracket, Starter (24V), **20**
Break Siphon (MDKBD, MDKBE), **56**
Breaker, Circuit (15 Amp), **94**
Breaker, Circuit (50 Amp), **94**
Breather (MDKBD, MDKBE), **41**
Breather (MDKBF), **42**
Brush, Alternator (Negative Ground, 12V), **47**
Brush, Alternator (Negative Ground, 24V), **48**

Index

Bulkhead, Exhaust Connector, **71**
Bushing, Connecting Rod, **17**
Bushing, Dry Exhaust Reducer, **72**
Bushing, Idle Gear, **16**
Bushing, Oil Drain Reducer (MDKBF), **67**

C

Cam, Water Pump, **62**
Camshaft, **16**
Camshaft, Fuel, **23 , 24 , 25**
Cap, Adjusting Bolt Assy (MDKBF), **29**
Cap, Coolant Recovery Tank, **65**
Cap, Coolant Tank, **64**
Cap, Cylinder Block Sealing (MDKBD, MDKBE), **12**
Cap, Cylinder Block Sealing (MDKBF), **13**
Cap, Cylinder Head Sealing (MDKBD, MDKBE), **34**
Cap, Cylinder Head Sealing (MDKBF), **35**
Cap, Oil Drain Line (MDKBD, MDKBE), **66**
Cap, Stop Lever Adjusting Bolt (MDKBD, MDKBE), **28**
Cap, Valve (MDKBD, MDKBE), **36**
Cap, Valve (MDKBF), **37**
Catch, Door, **84**
Clamp, Fuel Pump Hose , **51**
Clamp, Fuel Return Hose, **52**
Clamp, Injection Pipe (MDKBD, MDKBE), **38**
Clamp, Nozzle Pipe (MDKBF), **39**
Cock, Cylinder Block Drain (MDKBD, MDKBE), **12**
Cock, Cylinder Block Drain (MDKBF), **13**
Collar, Alternator (MDKBF, Negative Ground), **46**
Collar, Alternator (Negative Ground, 12V), **47**
Collar, Alternator (Negative Ground, 24V), **48**
Collar, Crankshaft (MDKBD, MDKBE), **14**
Collar, Crankshaft (MDKBF), **15**
Collar, Idle Gear, **16**
Collet, Valve Spring (MDKBD, MDKBE), **36**
Collet, Valve Spring (MDKBF), **37**
Components, Alternator (Negative Ground, 12V), **47**
Components, Alternator (Negative Ground, 24V), **48**
Components, Gauge Panel, **95**
Components, Injection Pump (MDKBD, MDKBE), **32**
Components, Injection Pump (MDKBF), **33**
Components, Starter (12V), **19**
Components, Starter (24V), **20**
Components, Water Pump, **62**
Components, Water Separator, **54**
Connector, Fuel Pump Male, **51**
Connector, Fuel Return Male, **52**
Connector, Heat Exchanger Bulkhead, **59**
Connector, Hose, **52**
Connector, Hose (MDKBF), **57**
Connector, Keel Cooling Bulkhead, **61**
Connector, Male, **52**
Control Harness, **101**
Cooling, Keel (Dry Exhaust), **63**
Cooling, Keel (Wet Exhaust), **61**
Cord, Glow Plug (MDKBD, MDKBE), **38**
Cord, Glow Plug (MDKBF), **39**
Coupling, Anchor, **52**
Coupling, Dry Exhaust Reducer, **72**
Coupling, PTO, **68**
Cover (MDKBF), **13**
Cover Assy, Starter (12V), **19**
Cover Assy, Starter (24V), **20**
Cover, Access, **82**
Cover, Alternator Bearing (Negative Ground, 12V), **47**
Cover, Alternator Bearing (Negative Ground, 24V), **48**
Cover, Alternator End (Negative Ground, 12V), **47**
Cover, Alternator End (Negative Ground, 24V), **48**
Cover, Bearing Housing (MDKBD, MDKBE), **21**
Cover, Bearing Housing (MDKBF), **22**
Cover, Control, **92**
Cover, Cylinder Head (MDKBD, MDKBE), **41**
Cover, Cylinder Head (MDKBF), **42**
Cover, Cylinder Head Oil Fill (MDKBF), **42**
Cover, Fuel Camshaft (MDKBD, MDKBE), **12**
Cover, Heat Exchanger, **59**
Cover, Hole (MDKBD, MDKBE), **12**
Cover, Hole (MDKBF), **29**
Cover, Injection Pump (MDKBD, MDKBE), **28**
Cover, Injection Pump (MDKBF), **29**
Cover, Mechanical Fuel Pump (MDKBF), **13**
Cover, Thermostat, **40**

Index

Cover, Water Pump, **62**
Crankshaft, **14**
Crankshaft (MDKBF), **15**
Crankshaft (MDKBD, MDKBE), **14**
Cylinder Block (MDKBF), **13**

D

Disc, Generator Drive, **89**
Door, Sound Shield, **83**
Drain Assy, Water Separator, **54**
Drive Assy, Starter (12V), **19**
Drive Assy, Starter (24V), **20**

E

Elbow, 45 Degree Street, **52**
Elbow, 45 Degree Street Fuel, **51**
Elbow, Fuel Return, **52**
Elbow, Inverted Male, **52**
Elbow, Keel Cooling, **61**
Elbow, Keel Cooling (Dry Exhaust), **63**
Elbow, Keel Cooling (Wet Exhaust), **61**
Elbow, Oil Drain (MDKBD, MDKBE), **66**
Elbow, Oil Drain Pipe (MDKBF), **67**
Elbow, Pipe, **51**
Elbow, Street, **53**
Elbow, Street Pipe, **51**
Element, Breather (MDKBD, MDKBE), **41**
Element, Breather (MDKBF), **42**
Element, Fuel Filter, **51**
Element, Water Separator, **54**
Endbell, **89**
Engine, Replacement (MDKBD, MDKBE), **12**
Engine, Replacement (MDKBF), **13**
Exchanger, Heat, **59**
Excitor, Rotor, Wound, **89**
Exhaust, Dry, **72**
Exhaust, Wet, **71**

F

Fan, Generator, **89**
Filter, Fuel, **51**
Filter, Oil, **43**
Fitting, Oil Drain Hose Barb (MDKBF), **67**
Flange, Coolant Water Pump, **44**
Flange, Dry Exhaust, **72**
Flange, Oil Fill, **43**
Flange, Water Outlet, **40**
Flange, Water Return, **43**
Flywheel Assy, **18**
Frame, Alternator Drive End (Negative Ground, 24V), **48**
Frame, Alternator End (Negative Ground, 12V), **47**
Frame, Alternator End (Negative Ground, 24V), **48**

G

Gasket, Adjusting Bolt (MDKBF), **29**
Gasket, Bearing Housing (MDKBD, MDKBE), **21**
Gasket, Bearing Housing (MDKBF), **22**
Gasket, Bearing Housing Cover (MDKBD, MDKBE), **21**
Gasket, Bearing Housing Cover (MDKBF), **22**
Gasket, Breather (MDKBD, MDKBE), **41**
Gasket, Breather (MDKBF), **42**
Gasket, Coolant Water Pump, **44**
Gasket, Cover (MDKBF), **13**
Gasket, Cylinder Block Plug (MDKBD, MDKBE), **12**
Gasket, Cylinder Block Plug (MDKBF), **13**
Gasket, Cylinder Head (MDKBD, MDKBE), **34**
Gasket, Cylinder Head (MDKBF), **35**
Gasket, Cylinder Head Cover (MDKBD, MDKBE), **41**
Gasket, Cylinder Head Cover (MDKBF), **42**
Gasket, Delivery Valve (MDKBD, MDKBE), **32**
Gasket, Delivery Valve (MDKBF), **33**
Gasket, Dry Exhaust, **72**
Gasket, Dry Exhaust Adapter, **72**
Gasket, Exhaust Manifold, **70**
Gasket, Fuel Camshaft Cover (MDKBD, MDKBE), **12**
Gasket, Fuel Nozzle (MDKBD, MDKBE), **38**
Gasket, Gearcase, **43**
Gasket, Heat Exchanger Cover, **59**

Index

Gasket, Hole Cover (MDKBD, MDKBE), **12**
Gasket, Injection Pump (MDKBF), **31**
Gasket, Injection Pump Cover (MDKBD, MDKBE), **28**
Gasket, Injection Pump Cover (MDKBF), **29**
Gasket, Injection Pump Eye Joint (MDKBD, MDKBE), **30**
Gasket, Injection Pump Hollow Screw (MDKBD, MDKBE), **32**
Gasket, Injection Pump Hollow Screw (MDKBF), **33**
Gasket, Mechanical Fuel Pump Cover (MDKBF), **13**
Gasket, Mixer, **71**
Gasket, Nozzle (MDKBF), **39**
Gasket, Oil Fill Flange, **43**
Gasket, Oil Pan (MDKBD, MDKBE), **66**
Gasket, Oil Pan (MDKBF), **67**
Gasket, Oil Pan Plug (MDKBD, MDKBE), **66**
Gasket, Oil Pump (MDKBD, MDKBE), **12**
Gasket, Oil Pump (MDKBF), **13**
Gasket, Raw Water Pump, **59**
Gasket, Riser/Adapter, **70**
Gasket, Speed Control Plate (MDKBF), **26**
Gasket, Stop Lever Adjusting (MDKBD, MDKBE), **28**
Gasket, Thermostat Cover, **40**
Gasket, Water Outlet Flange, **40**
Gasket, Water Pump (Wet Exhaust), **61**
Gasket, Water Return Flange, **43**
Gauge, Remote Switch and Oil Pressure, **99**
Gauge, Remote Switch and Water Temperature, **99**
Gear Assy, Idle, **16**
Gear, Camshaft, **16**
Gear, Crankshaft (MDKBD, MDKBE), **14**
Gear, Crankshaft (MDKBF), **15**
Gear, Oil Drive (MDKBF), **15**
Gear, Oil Pump Drive (MDKBD, MDKBE), **12**
Gear, Oil Pump Drive (MDKBF), **13**
Gear, Ring, **18**
Gear, Starter (12V), **19**
Gear, Starter (24V), **20**
Gearcase Assy, **43**
Generator, **89**
Governor, **27**

Grommet, Generator, **89**
Grommet, Generator Housing, **79**
Grommet, Vacuum Relief Valve, **56**
Ground, Isolated, **75**
Guard Assy, Coupling, **87**
Guard, Belt, **78**
Guard, Belt and PTO Belt, **78**
Guard, Belt W/O PTO, **78**
Guide, Card, **92**
Guide, Valve (MDKBD, MDKBE), **34**
Guide, Valve (MDKBF), **35**

H

Hanger, Coolant Recovery Tank, **65**
Harness, Auxiliary Control, **102**
Harness, Auxiliary Control , **102**
Harness, Battery, **80**
Harness, Control , **101**
Harness, Deluxe Remote Panel, **98**
Harness, Gauge Panel, **95**
Harness, Ground, **75**
Harness, Isolated Ground, **75**
Harness, Junction, **105**
Harness, Pigtail (8"), **105**
Harness, Plug, **106**
Harness, Plug and Remote Panel, **106**
Harness, Remote Control Panel, **96**
Harness, Remote Extension, **105**
Harness, Remote Switch and Gauge Panel, **99**
Harness, Remote Switch Panel, **97**
Harnesses, **104**
Head Assy, Cylinder (MDKBF), **35**
Head Assy, Water Separator Replacement, **54**
Head, Cylinder (MDKBD, MDKBE), **34**
Head, Cylinder (MDKBF), **35**
Holder Assy, Alternator Brush (Negative Ground, 12V), **47**
Holder Assy, Alternator Brush (Negative Ground, 24V), **48**
Holder Assy, Nozzle (MDKBD, MDKBE), **38**
Holder Assy, Nozzle (MDKBF), **39**
Holder Assy, Starter Brush (12V), **19**

Index

Holder, Delivery Valve (MDKBD, MDKBE), **32**
Holder, Delivery Valve (MDKBF), **33**
Holder, Nozzle (MDKBD, MDKBE), **38**
Holder, Nozzle (MDKBF), **39**
Holder, Starter Brush (24V), **20**
Hose, Coolant, **59**
Hose, Coolant Tank Upper, **64**
Hose, Engine Coolant, **59**
Hose, Exhaust Manifold, **59**
Hose, Fuel, **52**
Hose, Intake, **69**
Hose, Keel Cooling, **61**
Hose, Keel Cooling (Dry Exhaust), **63**
Hose, Keel Cooling (Wet Exhaust), **61**
Hose, Lower Coolant Tank, **59**
Hose, Mixer, **59**
Hose, Outlet, **61**
Hose, Raw Water Pump, **59**
Hose, Wet Exhaust, **71**
Hourmeter (Control Panel), **94**
Housing, Generator, **79**
Housing, Main Bearing (MDKBD, MDKBE), **21**
Housing, Main Bearing (MDKBF), **22**
Hub, Drive, **89**

I

Impeller, Coolant Water Pump, **44**
Impeller, Water Pump, **62**
Indicator, Oil Level (MDKBD, MDKBE), **66**
Indicator, Oil Level (MDKBF), **67**
Insulation, Access Panel Sound, **84**
Insulation, Alternator Brush (Negative Ground, 12V), **47**
Insulation, Alternator Brush (Negative Ground, 24V), **48**
Insulation, Door, **83**
Insulation, Duct (W/O PTO), **85**
Insulation, Generator Housing, **80**
Insulation, Panel (Side), **79**
Insulation, Panel (Top), **79**

Insulation, Roof, **82**
Insulation, Roof End, **85**
Isolation, Vibration, **79**
Isolator, Mounting, **76**

J

Joint, Cylinder Block Drain Cock (MDKBD, MDKBE), **12**
Joint, Cylinder Block Drain Cock (MDKBF), **13**
Joint, Injection Pump (MDKBF), **31**
Joint, Injection Pump Eye (MDKBD, MDKBE), **30**
Joint, Intake Manifold Pipe, **69**
Joint, Oil Filter Pipe, **43**
Jumper, Temp Switch, **72**

K

Key, Camshaft, **16**
Key, Crankshaft (MDKBD, MDKBE), **14**
Key, Crankshaft (MDKBF), **15**
Key, Fan Drive Pulley (MDKBD, MDKBE), **45**
Key, Oil Pump (MDKBD, MDKBE), **12**
Key, Oil Pump (MDKBF), **13**
Key, Water Pump, **62**
Kit, Access Panel, **84**
Kit, Belt Guard (ISO Ground), **78**
Kit, Belt Guard (Neg Ground), **78**
Kit, Belt Guard (PTO), **78**
Kit, Blank Panel 12V, **92**
Kit, Blank Panel 24V, **92**
Kit, Coolant Recovery, **65**
Kit, Coupling Guard, **87**
Kit, Door, **83**
Kit, Duct Panel, **85**
Kit, Enclosure Panel, **85**
Kit, Engine Roof Panel, **82**
Kit, Exhaust, **63**
Kit, Exhaust (Wet), **71**
Kit, Exhaust Adapter, **72**
Kit, Exhaust Flange, **72**
Kit, Fuel Adapter (3/8" Hose), **52**

Index

Kit, Fuel Adapter (5/16" Hose), **52**
Kit, Gauge Panel, **95**
Kit, Heat Exchanger End Cap/Pencil, **59**
Kit, Heat Exchanger Zinc Pencil, **59**
Kit, Isolated Ground, **75**
Kit, Keel Cooling, **61**
Kit, Keel Cooling (Dry Exhaust), **63**
Kit, Keel Cooling (Wet Exhaust), **61**
Kit, Minor Service, **59**
Kit, Muffler, **74**
Kit, Muffler/Water Separator, **74**
Kit, Panel Enclosure, **87**
Kit, PTO, **68**
Kit, PTO Belt, **68**
Kit, Raw Water Pump Service, **62**
Kit, Remote Control Panel, **96**
Kit, Remote Control Panel Switch Harness, **96**
Kit, Remote Fuel/Water Separator, **53**
Kit, Remote Panel, **98**
Kit, Remote Switch and Gauge Panel, **99**
Kit, Remote Switch Panel, **97**
Kit, Roof Panel, **82**
Kit, Sender, **40**
Kit, Siphon Break (MDKBD, MDKBE), **56**
Kit, Siphon Break (MDKBF), **57**
Kit, Sound Shield, **82**
Kit, Water Separator, **74**
Kit, Water Separator Metal Bowl Replacement, **54**
Kits, **107**

L

Label, Control, **94**
Label, Instruction, **96**
Labels, **107**
Latch, Door (1/4 Turn), **83**
Lever Assy, Engine Stop (MDKBF), **29**
Lever Assy, Fork, **27**
Lever Assy, Starter (12V), **19**
Lever Assy, Starter (24V), **20**
Lever Assy, Stop (MDKBF), **29**

Lever, Engine Stop (MDKBD, MDKBE), **28**
Lever, Engine Stop (MDKBD, MDKBE)) , **28**
Lever, Engine Stop (MDKBF), **29**
Lever, Governor, **27**
Line, Flex Fuel, **53**
Line, Flex Oil (MDKBD, MDKBE), **66**
Line, Fuel Return, **52**
Line, Oil, **52**
Lock Assy, Plate (MDKBD, MDKBE), **32**
Lug, Solderless, **80**

M

Manifold, Exhaust, **70**
Manifold, Intake, **69**
Manifold, Oil Pressure, **52**
Meter, Remote Switch and Running Time, **99**
Meter, Remote Switch and Volt (M14), **99**
Meter, Remote Switch Panel Hour, **97**
Meter, Volt (M4), **98**
Mixer, **71**
Mount Assy, Engine, **76**
Mounting, Printed Circuit Board, **91**
Muffler, **74**
Muffler, Dry Exhaust, **73**

N

Nipple, Keel Cooling (Dry Exhaust), **63**
Nipple, Keel Cooling (Wet Exhaust), **61**
Nozzle (MDKBF), **39**
Nozzle, Fuel (MDKBD, MDKBE), **38**

O

O'Ring Kit, Water Separator, **54**
O'Ring, Crankshaft (MDKBD, MDKBE), **14**
O'Ring, Crankshaft (MDKBF), **15**
O'Ring, Cylinder Block, **12**
O'Ring, Cylinder Block Pipe Pin (MDKBF), **13**
O'Ring, Cylinder Head (MDKBD, MDKBE), **34**
O'Ring, Cylinder Head (MDKBF), **35**
O'Ring, Delivery Valve Holder (MDKBF), **33**

Index

O'Ring, Gearcase, **43**
O'Ring, Governor Lever (MDKBF), **26**
O'Ring, Oil Fill Cover (MDKBF), **42**
O'Ring, Oil Fill Plug, **43**
O'Ring, Oil Pickup Tube (MDKBF), **67**
O'Ring, Pickup Tube (MDKBD, MDKBE), **66**
O'Ring, Valve Holder (MDKBD, MDKBE), **32**
O'Ring, Water Pump, **62**

P

Pan, Oil (MDKBD, MDKBE), **66**
Pan, Oil (MDKBF), **67**
Panel Assy, Control , **93**
Panel, Remote Switch and Gauge, **99**
Panel, Access, **84**
Panel, Control, **94**
Panel, Control (Gnd), **94**
Panel, Duct (W/O PTO), **85**
Panel, Enclosure, **85**
Panel, Enclosure (W/PTO), **87**
Panel, Generator Housing, **79**
Panel, Generator Housing Side, **80**
Panel, Remote Control, **96** , **96** , **98**
Panel, Remote Printed, **98**
Panel, Remote Switch, **97**
Panel, Remote Switch and Gauge, **99**
Panel, Remote Switch Panel Printed, **97**
Panel, Roof, **82**
Panel, Roof End, **85**
Panel, UMC Mounting, **91**
PCB Assy, Control, **91**
Pencil, Zinc, **59**
Pin, Cylinder Block Pipe (MDKBD, MDKBE), **12**
Pin, Cylinder Block Pipe (MDKBF), **13**
Pin, Cylinder Block Straight (MDKBD, MDKBE), **12**
Pin, Cylinder Block Straight (MDKBF), **13**
Pin, Flywheel Alignment, **18**
Pin, Gearcase, **43**
Pin, Piston, **17**
Pin, Rocker Arm Bracket Spring (MDKBD, MDKBE), **36**
Pin, Rocker Arm Spring (MDKBF), **37**
Pin, Stop Lever Spring (MDKBD, MDKBE), **28**
Pin, Stop Lever Spring (MDKBF), **29**
Pin, Tappet Guide (MDKBD, MDKBE), **32**
Pin, Tappet Guide (MDKBF), **33**
Pinion Set, Starter (24V), **20**
Pipe, Injection (MDKBD, MDKBE), **38**
Pipe, Injection (MDKBF), **39**
Pipe, Overflow (MDKBD, MDKBE), **38**
Pipe, Overflow (MDKBF), **39**
Pipe, Water Return, **40**
Piston, **17**
Plate Assy, Lock (MDKBF), **33**
Plate, Alternator Retainer (Negative Ground, 12V), **47**
Plate, Alternator Retainer (Negative Ground, 24V), **48**
Plate, Breather (MDKBD, MDKBE), **41**
Plate, Breather (MDKBF), **42**
Plate, Injection Pump (MDKBF), **33**
Plate, Injection Pump (MDKBF)), **33**
Plate, Injection Pump Mounting (MDKBD, MDKBE), **32**
Plate, Speed Control (MDKBF), **26**
Plate, Water Pump Wear, **62**
Plug, Coolant Tank Hex Pipe, **64**
Plug, Cylinder Block (MDKBD, MDKBE), **12**
Plug, Cylinder Block (MDKBF), **13**
Plug, Cylinder Head (MDKBD, MDKBE), **34**
Plug, Cylinder Head (MDKBF), **35**
Plug, Fuel Filter Drain, **51**
Plug, Gearcase, **43**
Plug, Glow, **39**
Plug, Glow (MDKBF), **39**
Plug, Hex Head Pipe, **52**
Plug, Hex Pipe, **53**
Plug, Oil Fill, **43**
Plug, Oil Pan (MDKBD, MDKBE), **66**
Plug, Oil Pan (MDKBF), **67**
Plug, Water Outlet Flange, **40**
Plug, Water Separator, **54**
Plunger, Pump (MDKBD, MDKBE), **32**
Plunger, Pump (MDKBF), **33**
PTO, **68**
Pulley, Alternator (Isolated Ground), **49**

Index

Pulley, Alternator (MDKBF, Negative Ground), **46**
Pulley, Alternator (Negative Ground, 12V), **47**
Pulley, Alternator (Negative Ground, 24V), **48**
Pulley, Coolant Water Pump, **44**
Pulley, Fan Drive (MDKBD, MDKBE, Neg Gnd), **45**
Pump Assy, Coolant Water, **44**
Pump Assy, Injection (MDKBD, MDKBE), **30**
Pump Assy, Injection (MDKBF), **31**
Pump Assy, Water Separator, **54**
Pump, Electric Fuel, **51**
Pump, Fuel, **51**
Pump, Heat Exchanger Raw Water, **59**
Pump, Keel Cooling Raw Water (Wet Exhaust), **61**
Pump, Oil (MDKBD, MDKBE), **12**
Pump, Oil (MDKBF), **13**

R

Rack, Injection Pump Control (MDKBD, MDKBE), **32**
Rack, Injection Pump Control (MDKBF), **33**
Rectifier, Alternator (Negative Ground, 12V), **47**
Rectifier, Alternator (Negative Ground, 24V), **48**
Regulator, Alternator (Negative Ground, 12V), **47**
Regulator, Alternator (Negative Ground, 24V), **48**
Relay (SPDT), **93**
Relay, Isolated Ground Solenoid, **75**
Resistor, Fuel Pump (24V), **51**
Resistor, Remote Switch and Gauge Panel (12v Only), **99**
Resistor, Remote Switch and Gauge Panel (24v Only), **99**
Resonator, Intake, **69**
Retainer, Endbell, **89**
Retainer, Valve Spring (MDKBD, MDKBE), **36**
Retainer, Valve Spring (MDKBF), **37**
Ring, Idle Gear Retaining, **16**
Ring, Piston Retaining, **17**
Ring, Rocker Arm (MDKBD, MDKBE), **36**
Ring, Rocker Arm Retaining (MDKBF), **37**
Ring, Water Pump Retaining, **62**
Riser, Exhaust, **72**
Riser, Wet Exhaust, **71**
Rod Assy, Connecting, **17**
Rod, Push, **16**
Rotor Assy, Generator, **89**
Rotor, Alternator (Negative Ground, 12V), **47**
Rotor, Alternator (Negative Ground, 24V), **48**

S

Screw, Follow, **30**
Seal, Bearing Housing Oil (MDKBF), **22**
Seal, Coolant Water Pump, **44**
Seal, Crankshaft Oil (MDKBD, MDKBE), **14**
Seal, Heat (MDKBF), **39**
Seal, Main Bearing Housing Oil (MDKBD, MDKBE), **21**
Seal, Nozzle Heat (MDKBD, MDKBE), **38**
Seal, Oil (MDKBF), **43**
Seal, Stop Lever Oil (MDKBD, MDKBE), **28**
Seal, Stop Lever Oil (MDKBF), **29**
Seal, Valve Stem (MDKBD, MDKBE), **36**
Seal, Valve Stem (MDKBF), **37**
Seal, Water Pump Lip, **62**
Seal, Water Pump Mechanical, **62**
Seal, Weather (15.6'), **83**
Seat, Spring (MDKBD, MDKBE), **32**
Seat, Spring (MDKBF), **33**
Seat, Valve, **43**
Sender, Low Coolant, **64**
Sender, Oil, **52**
Sender, Oil Pressure, **52**
Sender, Water Temperature, **40**
Separator, Fuel/Water, **74**
Separator, Remote Fuel/Water, **53**
Separator, Remote Fuel/Water Separator, **53**
Separator, Water, **74**
Set, Ring, **17**
Shaft Assy, Rocker Arm (MDKBD, MDKBE), **36**
Shaft Assy, Rocker Arm (MDKBF), **37**
Shaft, Engine Stop Lever (MDKBD, MDKBE), **28**
Shaft, Fork Level, **27**
Shaft, Idle Gear, **16**
Shaft, Stop Lever (MDKBF), **29**
Shield, Engine Panel Sound (Access), **84**

Index

Shield, Engine Panel Sound (Doors), **83**
Shield, Panel Engine Sound (Front and Rear), **85**
Shield, Panel Engine Sound (Front w/PTO), **87**
Shield, Sound, Engine (Cover), **82**
Shim, Injection Pump (MDKBF), **33**
Shim, Injection Pump Mounting (MDKBD, MDKBE), **30**
Shim, Injection Pump Mounting (MDKBF), **31**
Shim, PTO, **68**
Shim, Spring Seat (MDKBD, MDKBE), **32**
Siphon, Break (MDKBF), **57**
Sleeve, Air Intake, **69**
Sleeve, Crankshaft (MDKBD, MDKBE), **14**
Sleeve, Crankshaft (MDKBF), **15**
Sleeve, Injection Pump Control (MDKBF), **33**
Sleeve, Injection Pump Upper Spring (MDKBD, MDKBE), **32**
Slinger, Crankshaft Oil (MDKBF), **15**
Slinger, Oil (MDKBD, MDKBE), **14**
Socket, Relay, **101**
Spacer, Generator Fan, **89**
Spacer, Panel, **84**
Spring, Alternator Brush (Negative Ground, 12V), **47**
Spring, Alternator Brush (Negative Ground, 24V), **48**
Spring, Delivery Valve (MDKBD, MDKBE), **32**
Spring, Delivery Valve (MDKBF), **33**
Spring, Plunger (MDKBD, MDKBE), **32**
Spring, Plunger (MDKBF), **33**
Spring, Rocker Arm (MDKBD, MDKBE), **36**
Spring, Rocker Arm (MDKBF), **37**
Spring, Starter (12V), **19**
Spring, Starter (24V), **20**
Spring, Valve (MDKBD, MDKBE), **36**
Spring, Valve (MDKBF), **37**
Spring, Valve Seat, **43**
Standoff, Insulation, **93**
Stator, Generator, **89**
Stator, Wound, **89**
Stiffener, Enclosure, **82**
Stopper, Camshaft, **16**
Stopper, Starter Set (12V), **19**

Stopper, Starter Set (24V), **20**
Strainer, Water Pickup, **74**
Strap, Bond (MDKBF), **77**
Strap, Control Box Bond, **93**
Strap, Electrical, **77**
Support, Fuel Return, **52**
Switch, High Exhaust Temperature, **71**
Switch, Pressure, **59**
Switch, Remote Control Panel Rocker (S11), **96**
Switch, Remote Gauge and Rocker (SPDT) (S11), **99**
Switch, Remote Switch Panel Rocker (S11), **97**
Switch, Rocker (S11), **98**
Switch, Rocker SPDT (Control Panel), **94**
Switch, Starter Solenoid (12V), **19**
Switch, Starter Solenoid (24V), **20**
System, Grounding, **77**

T

Tank, Coolant, **64**
Tank, Coolant Recovery, **65**
Tappet, **16**
Tappet Assy (MDKBF), **33**
Tappet Assy, Injection Pump (MDKBD, MDKBE), **32**
Tee, Keel Cooling, **63**
Tee, Keel Cooling (Wet Exhaust), **61**
Tee, Street, **52**
Thermostat, **40**
Tube, Breather (MDKBD, MDKBE), **41**
Tube, Breather (MDKBF), **42**
Tube, Flexible Exhaust, **73**
Tube, Low Pressure Switch, **59**
Tube, Oil Pickup (MDKBD, MDKBE), **66**
Tube, Oil Pickup (MDKBF), **67**

V

Valve (MDKBF), **37**
Valve, Check (MDKBD, MDKBE), **56**
Valve, Check (MDKBF), **57**
Valve, Delivery (MDKBD, MDKBE), **32**
Valve, Delivery (MDKBF), **33**

Index

Valve, Exhaust (MDKBD, MDKBE), **36**

Valve, Inlet (MDKBD, MDKBE), **36**

Valve, Oil Drain Shutoff (MDKBF), **67**

W

Wedge, Gauge Panel Plug, **95**

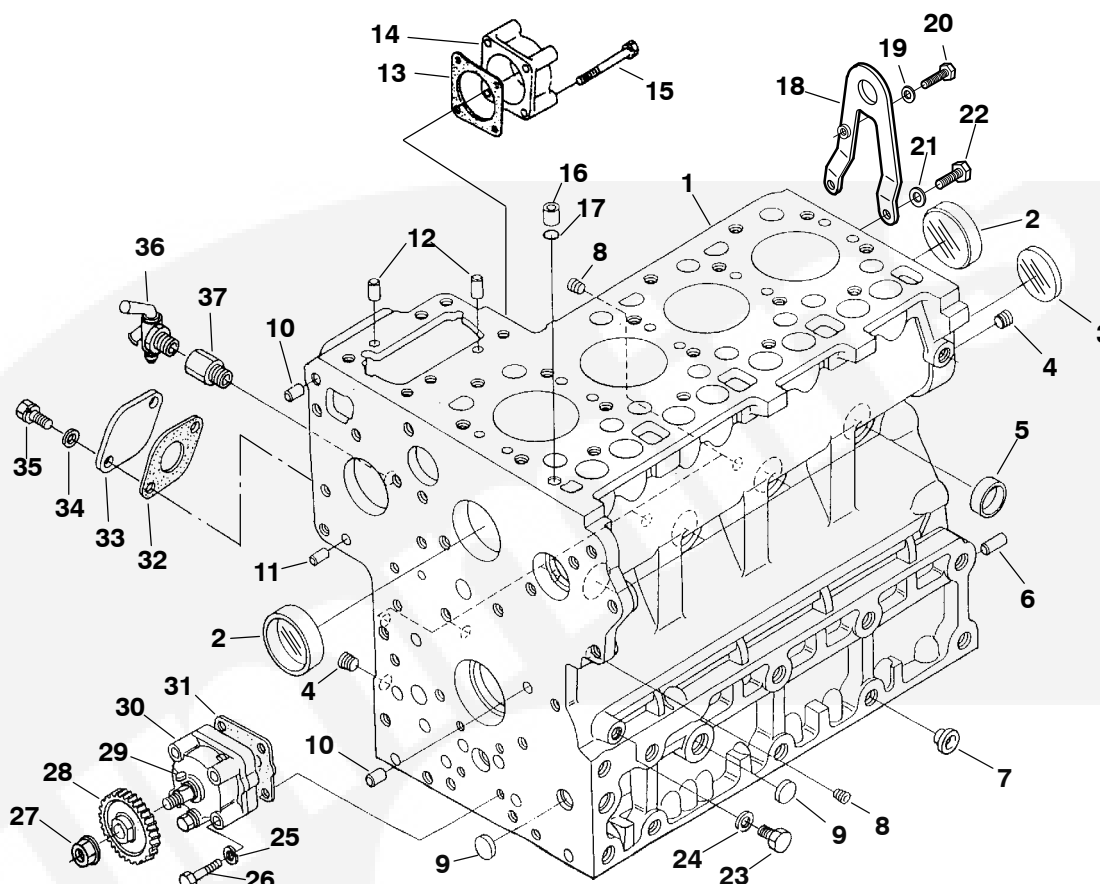
Y

Yoke Assy, Starter (12V), **19**

Yoke Assy, Starter (24V), **20**



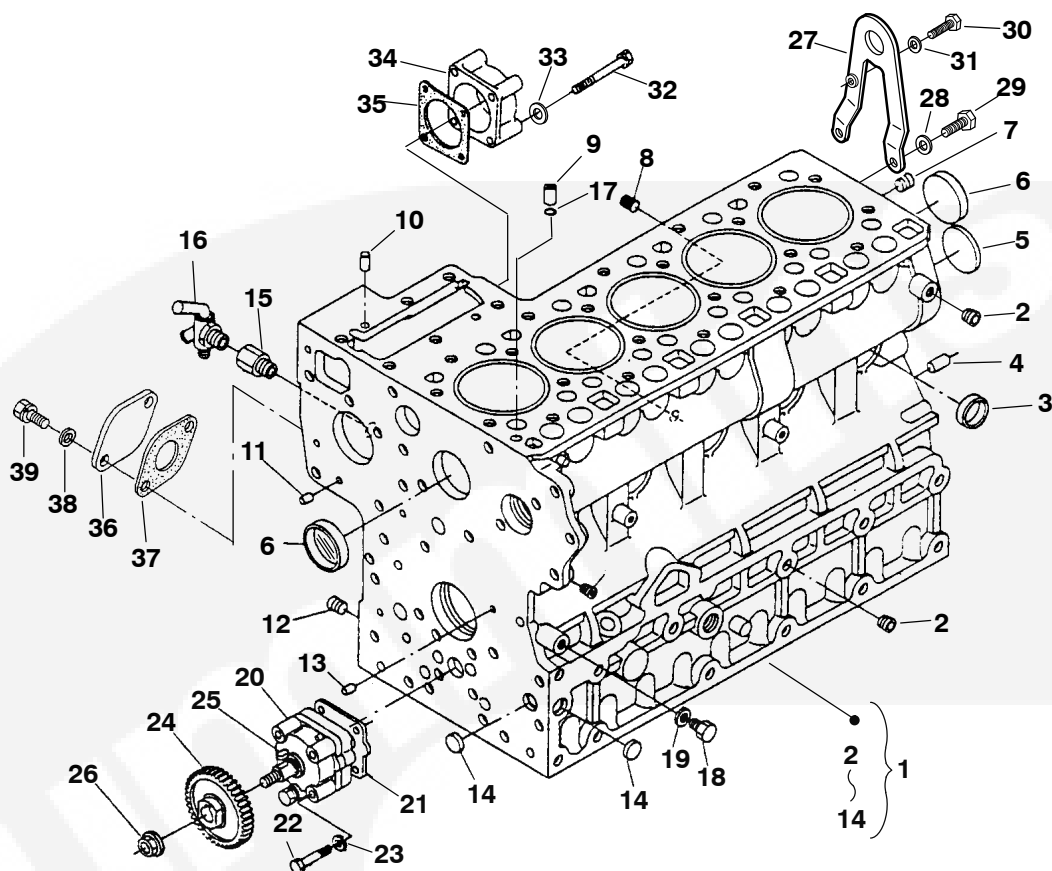
Cylinder Block, MDKBD, MDKBE



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Engine, Replacement	17	185-2095	1	O'Ring
			MDKBD Spec A	18	403-3916-02	1	Bracket, Lifting
	100-3739-01	1	12V	19	526-2100	1	Washer (M8)
	100-3739-02	1	24V	20	718-1036	1	Screw, Hex Head Cap (M8 x 20 x 1.25")
			MDKBD Begin Spec B	21	526-0399-64	2	Washer, Flat (M12)
	100-3893-01	1	12V	22	800-3033	2	Screw, Hex Head Cap (M12 x 1.25 x 25mm)
	100-3893-02	1	24V				
			MDKBE Spec A	23	185-5845	1	Plug
	100-3740-01	1	12V	24	185-2338	1	Gasket
	100-3740-02	1	24V	25	185-6759	4	Washer, Spring
			MDKBE Begin Spec B	26	185-5850	4	Bolt
	100-3894-01	1	12V	27	185-7031	1	Nut, Flange
	100-3894-02	1	24V	28	185-5851	1	Gear, Oil Pump Drive
2	185-5841	2	Cap, Sealing	29	185-2352	1	Key
3	185-5839	1	Plug	30	185-5848	1	Pump, Oil
4	185-2234	2	Plug	31	185-5849	1	Gasket, Oil Pump
5	185-5840	6	Cap, Sealing	32	185-2125	1	Gasket, Hole Cover
6	185-5844	1	Pin, Straight	33	185-6784	1	Cover, Hole
7	185-5837	2	Plug	34	850-2006	2	Washer, Flat
8	185-2233	6	Plug	35	800-2034	2	Bolt
9	185-6121	3	Plug	36	185-5846	1	Cock, Drain
10	185-5843	2	Pin, Straight	37	185-5847	1	Joint, Drain Cock
11	185-5842	2	Pin, Straight				
12	185-2350	2	Pin, Straight				
13	185-6982	1	*Gasket, Cover				
14	185-6772	1	*Cover, Fuel Camshaft				
15	185-5676	4	*Bolt				
16	185-2094	1	Pin, Pipe				

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

Cylinder Block, MDKBF

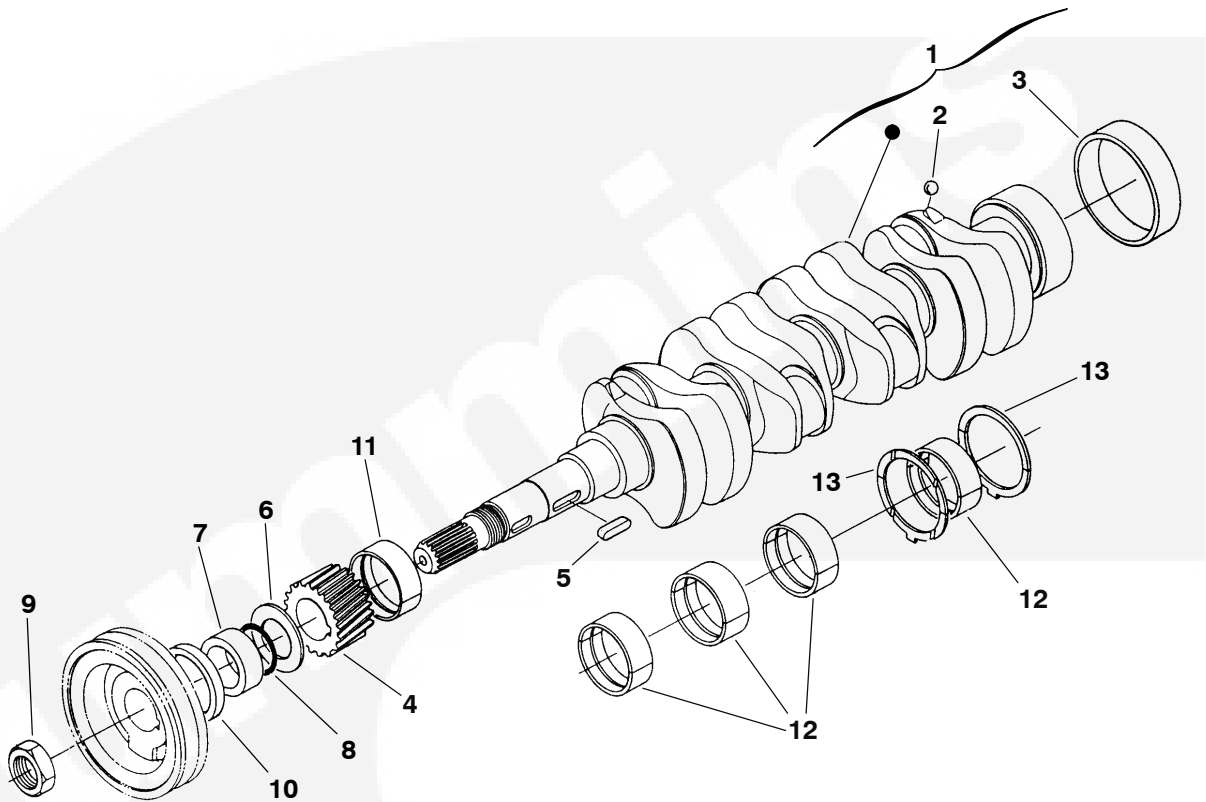


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Engine, Replacement MDKBF	20	185-6041	1	Pump, Oil
	100-3741-01	1	12V Spec A	21	185-5849	1	Gasket, Oil Pump
	100-3741-02	1	24V Spec A	22	185-6042	4	Bolt
			Engine, Replacement MDKBF	23	185-6759	4	Washer, Spring
	100-3895-01	1	12V Begin Spec B	24	185-6043	1	Gear, Oil Pump Drive
	100-3895-02	1	24V Begin Spec B	25	185-2352	1	Key
1	185-6038	1	Block Assy, Cylinder (Includes Parts Marked #)	26	185-7031	1	Nut, Flange
2	185-6039	4	#Plug	27	403-3916-02	1	Bracket, Lifting
3	185-5840	8	#Cap, Sealing	28	526-0399-64	2	Washer, Flat (M12)
4	185-5844	1	#Pin, Straight	29	800-3033	2	Screw, Hex Head Cap (M12 x 1.25 x 25mm)
5	185-6040	1	#Plug	30	718-1036	1	Screw, Hex Head Cap (M8 x 20 x 1.25mm)
6	185-5841	2	#Cap, Sealing	31	526-2100	1	Washer (M8)
7	185-2234	2	#Plug	32	185-5676	4	*Screw, Hex Head Cap (M8 x 70mm)
8	185-2233	7	#Plug	33	526-2100	4	Washer, Flat
9	185-2094	1	#Pin, Pipe	34	185-6772	1	*Cover
10	185-2350	2	#Pin, Straight	35	185-6982	1	*Gasket
11	185-5842	2	#Pin, Straight	36	185-6784	1	Cover, Hole
12	185-5837	2	#Plug	37	185-2125	1	Gasket, Hole Cover
13	185-5843	2	#Pin, Straight	38	850-2006	2	Washer, Flat
14	185-6121	3	#Plug	39	800-2034	2	Bolt
15	185-5847	1	Joint, Drain Cock				
16	185-5846	1	Cock, Drain				
17	185-2095	1	O'Ring				
18	185-5845	1	Plug				
19	185-2338	1	Gasket				

- Parts included in Cylinder Block Assy.

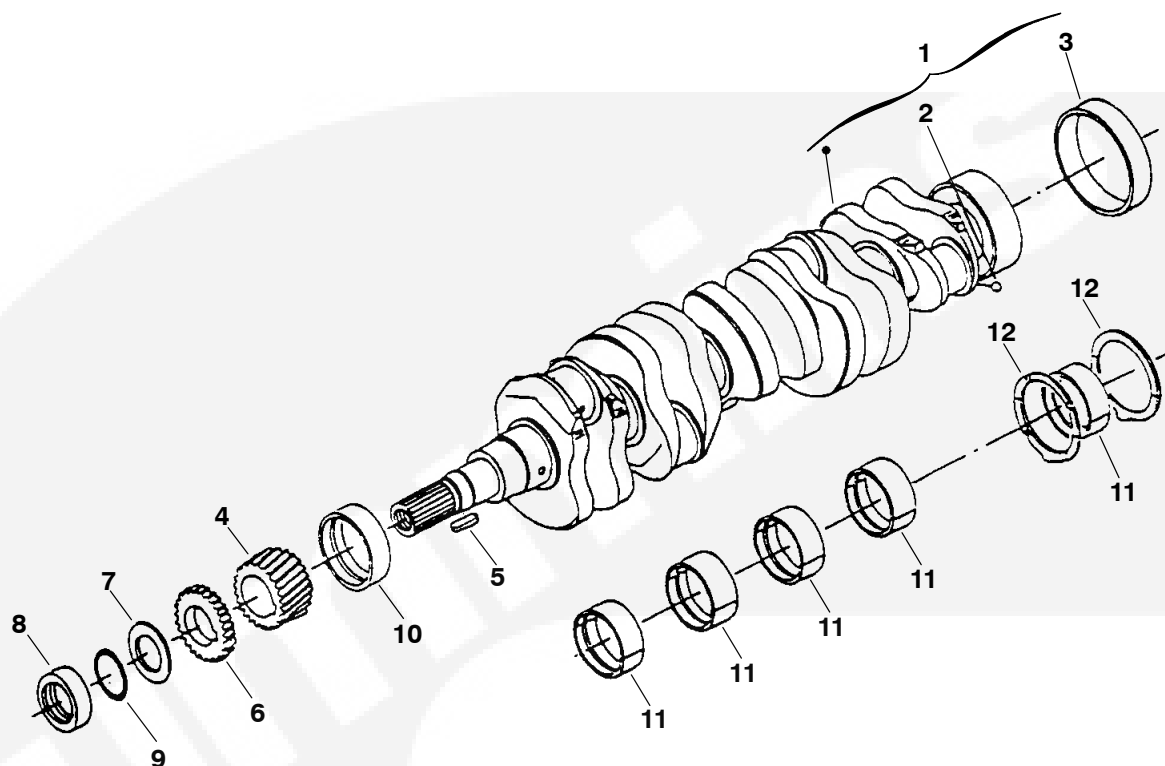
* - Parts Included in Keel Cooling Kit Listed on Keel Cooling-Dry Exhaust Page.

Crankshaft MDKBD, MDKBE



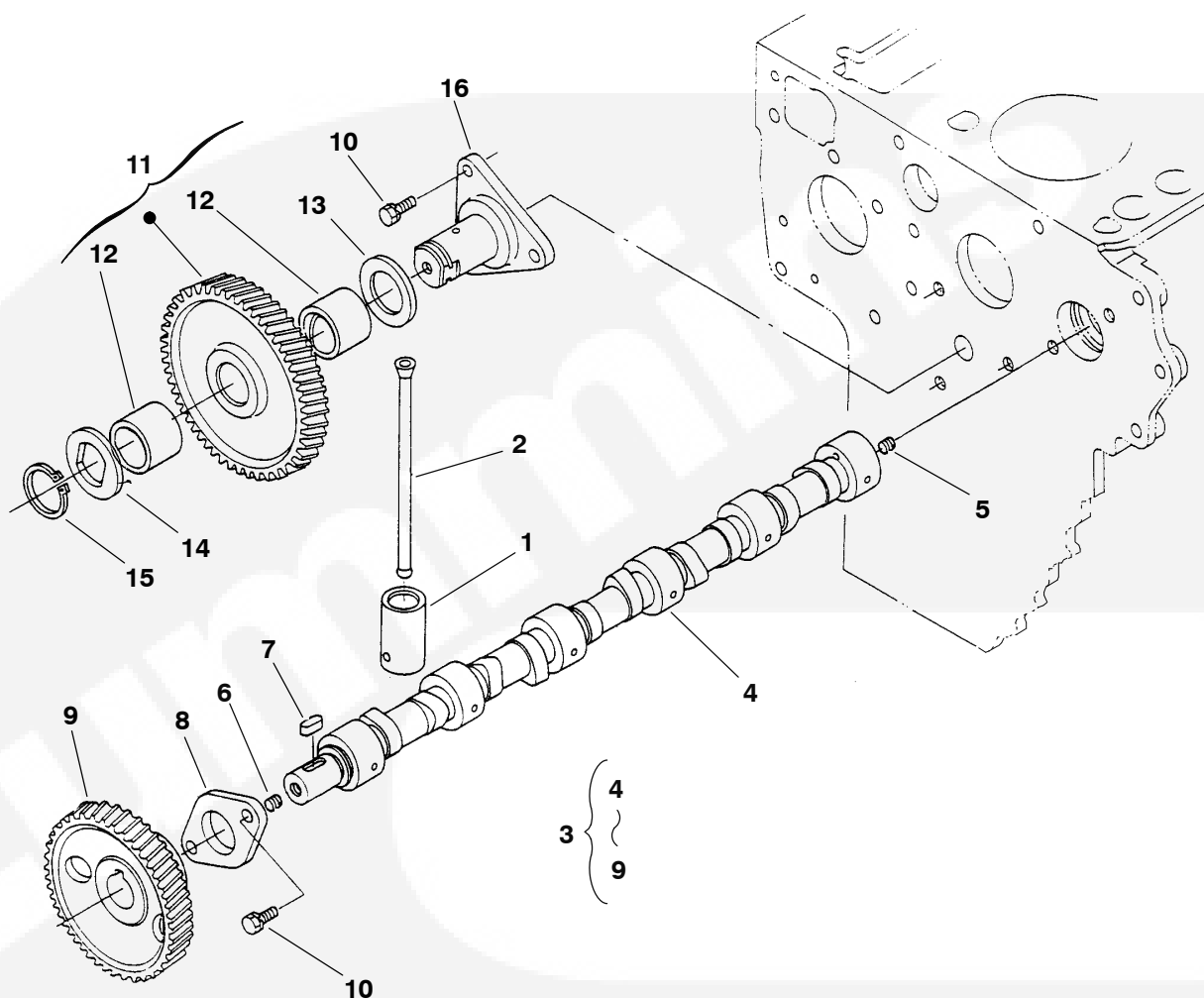
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5923	1	Crankshaft (Includes Balls and Sleeve)	12			Bearing, Main
2	185-5924	4	Ball	185-6086	4		Standard
3	185-5925	1	Sleeve	185-6976	4		0.2 mm Undersize
4	185-5926	1	Gear	185-5937	4		0.4 mm Undersize
5	185-5905	1	Key	13			Bearing, Thrust
6	185-5927	1	Slinger, Oil	185-5938	2		Standard
7	185-5928	1	Collar	185-5939	2		0.2 mm Oversize
8	185-5929	1	O'Ring	185-5940	2		0.4 mm Oversize
9	185-5930	1	Nut	185-5941	2		Standard
10	185-5931	1	Seal, Oil	185-5942	2		0.2 mm Oversize
11			Bearing	185-5943	2		0.4 mm Oversize
	185-6085	1	Standard				
	185-5933	1	0.2 mm Undersize				
	185-5934	1	0.4 mm Undersize				

Crankshaft MDKBF



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7036	1	Crankshaft (Includes Balls and Sleeve)	11	185-6086	5	Bearing, Main Standard
2	185-5924	5	Ball		185-6976	5	0.2 mm Undersize
3	185-6079	1	Sleeve		185-6977	5	0.4 mm Undersize
4	185-6080	1	Gear	12	185-5938	2	Bearing, Thrust Standard
5	185-6081	1	Key		185-5939	2	0.2 mm Oversize
6	185-6082	1	Gear, Oil Drive		185-5940	2	0.4 mm Oversize
7	185-6083	1	Slinger, Oil		185-5941	2	Standard
8	185-6084	1	Collar		185-6088	2	0.2 mm Oversize
9	185-5929	1	O'Ring		185-6089	2	0.4 mm Oversize
10			Bearing				
	185-6085	1	Standard				
	185-6974	1	0.2 mm Undersize				
	185-5934	1	0.4 mm Undersize				

Camshaft

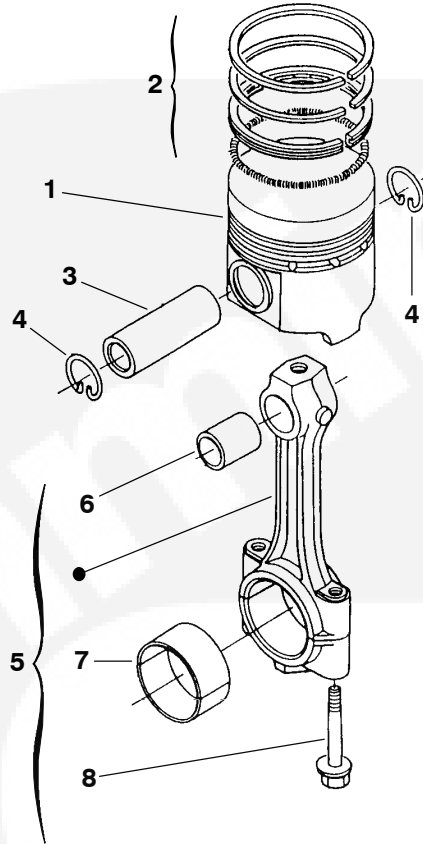


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5900	8	Tappet MDKBD, MDKBE
	185-5900	10	MDKBF
2	185-5901	8	Rod, Push MDKBD, MDKBE
	185-5901	10	MDKBF
3			Camshaft Assy (Includes Parts Marked *)
	185-5902	1	MDKBD, MDKBE
	185-6064	1	MDKBF
4			*Camshaft
	185-5903	1	MDKBD, MDKBE
	185-6065	1	MDKBF
5	185-5558	1	*Screw, Set
6	185-6066	1	*Screw, Set (MDKBF)
7	185-5905	1	*Key
8	185-5906	1	*Stopper, Camshaft
9			*Gear, Camshaft
	185-5904	1	MDKBD, MDKBE
	185-6067	1	MDKBF

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	185-2400	5	Bolt
11			Gear Assy, Idle (Includes Bushing)
	185-5907	1	MDKBD, MDKBE
	185-6207	1	MDKBF
12			Bushing, Idle Gear
	185-5908	1	MDKBD, MDKBE
	185-5908	2	MDKBF
13	185-5909	1	Collar
14	185-5910	1	Collar
15	185-5911	1	Ring, External Retaining
16	185-5912	1	Shaft, Idle Gear

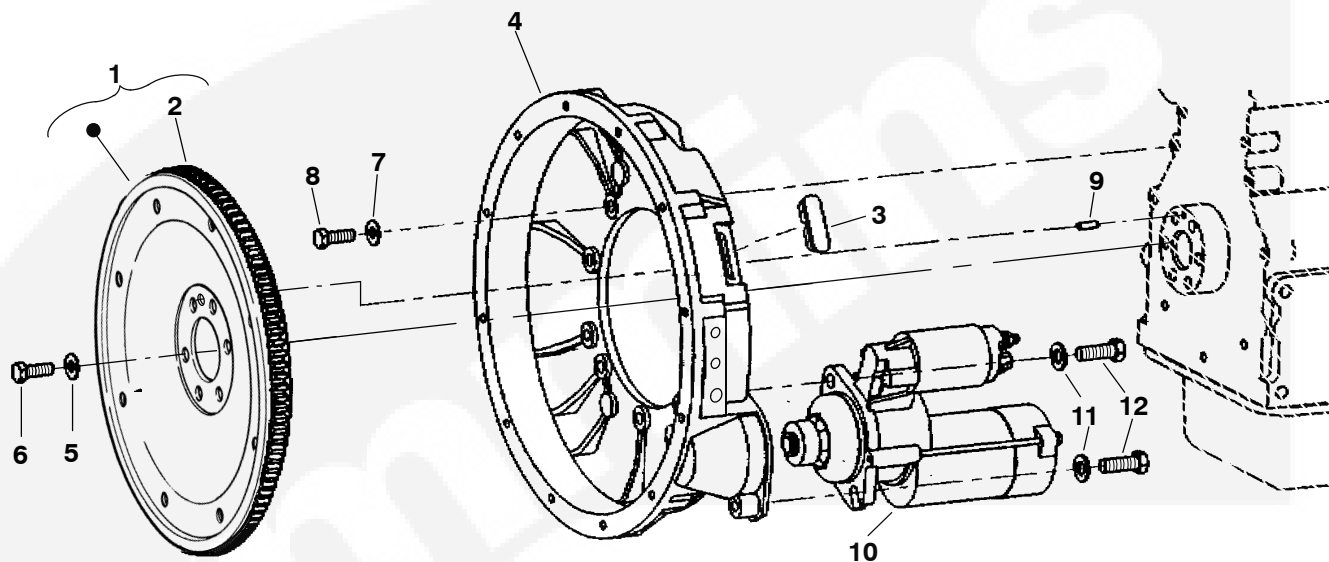
* - Parts Included in Camshaft Assy

Piston



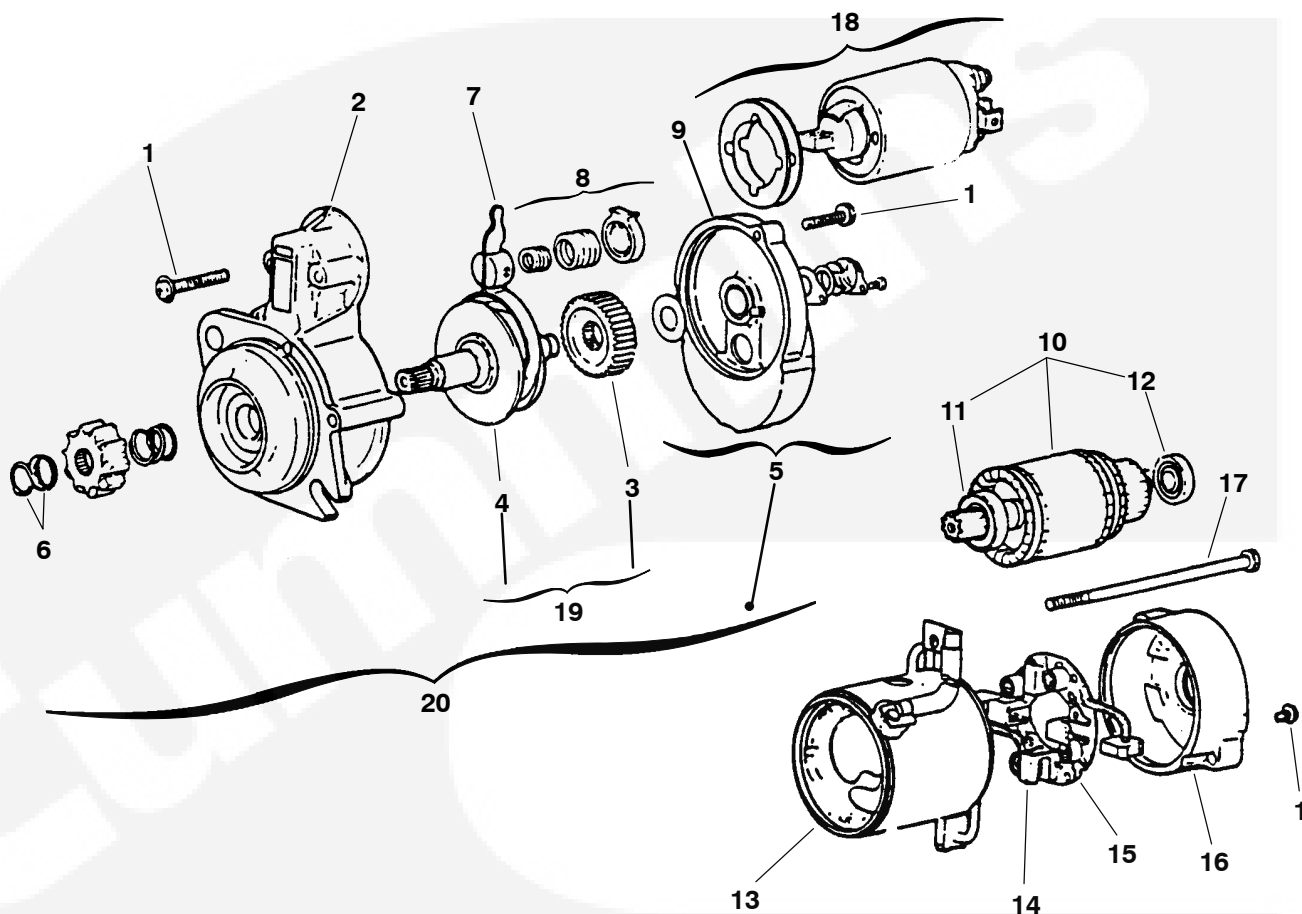
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Piston	5			Rod Assy, Connecting (Includes Bushing, Bearing and Bolts)
	185-6767	4	Standard		185-5917	4	MDKBD, MDKBE
	185-6768	4	0.5 mm Oversize		185-5917	5	MDKBF
			MDKBE	6			Bushing
	185-5913	4	Standard		185-6209	4	MDKBD, MDKBE
	185-6074	4	0.5 mm Oversize		185-6209	5	MDKBF
			MDKBF	7			Bearing
	185-5913	5	Standard				Standard
	185-6074	5	0.5 mm Oversize		185-6076	4	MDKBD, MDKBE
2			Set, Ring		185-6076	5	MDKBF
			MDKBD				0.2 mm Undersize
	185-6769	4	Standard		185-5921	4	MDKBD, MDKBE
	185-6770	4	0.5 mm Oversize		185-5921	5	MDKBF
			MDKBE				0.4 mm Undersize
	185-5914	4	Standard		185-5922	4	MDKBD, MDKBE
	185-6075	4	0.5 mm Oversize		185-5922	5	MDKBF
			MDKBF	8			Bolt
	185-5914	5	Standard		185-6771	8	MDKBD, MDKBE
	185-6075	5	0.5 mm Oversize		185-6771	10	MDKBF
3			Pin, Piston				
	185-5915	4	MDKBD, MDKBE				
	185-5915	5	MDKBF				
4			Ring, Retaining				
	185-5916	8	MDKBD, MDKBE				
	185-5916	10	MDKBF				

Flywheel



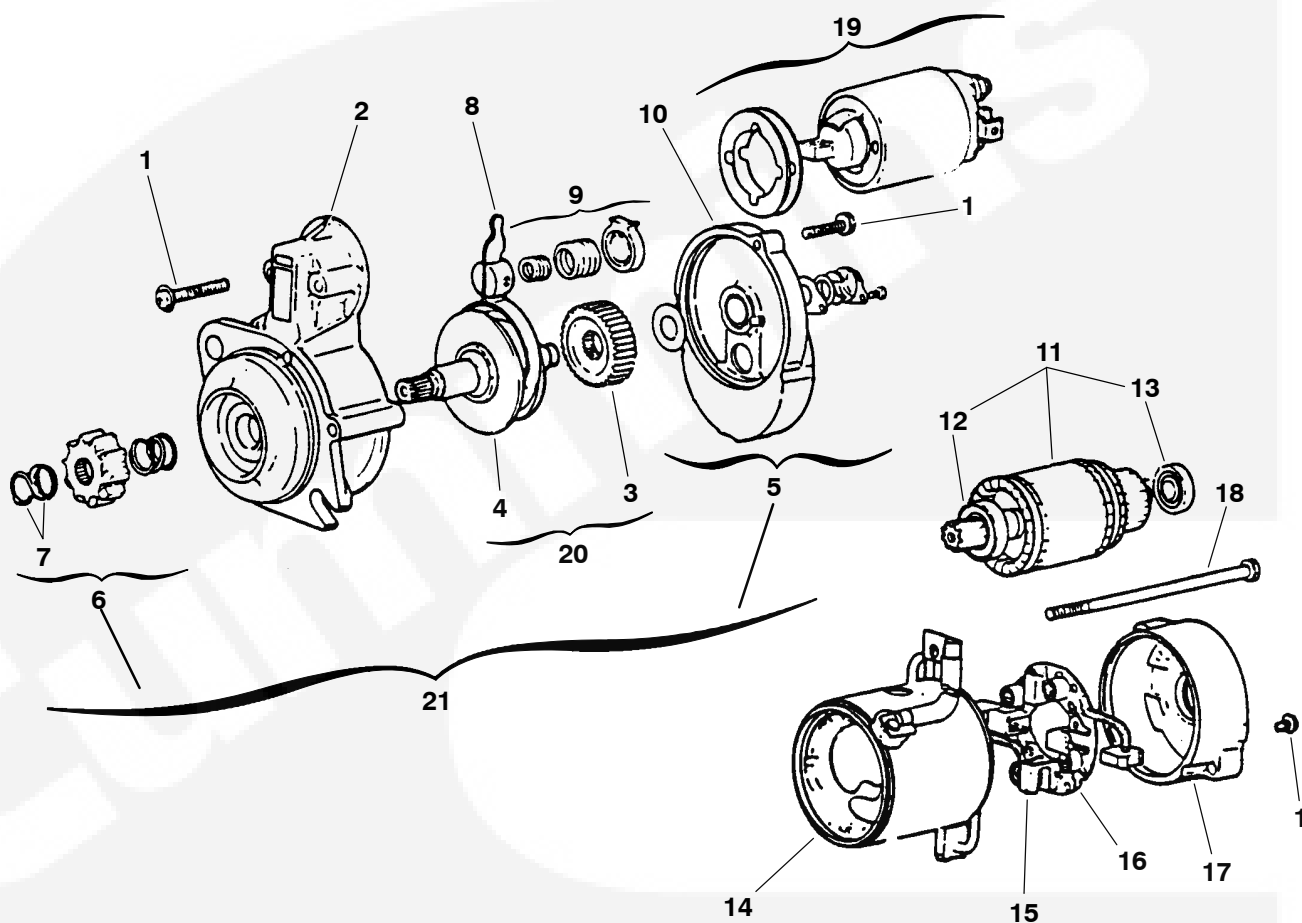
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Flywheel Assy (Includes Ring Gear)	9	775-0061	1	Pin, Parallel Hard (MDKBD, MDKBE)
	104-1929	1	MDKBD, MDKBE	10			Starter (See Separate Page For Components)
	104-1927	1	MDKBF		191-1959	1	12V
2	104-1666	1	Gear, Ring		191-1550	1	24V
3	101-0811	1	Plug, Hole	11	526-2140	2	Washer, Flat (M12)
4	101-0821	1	Adapter, Engine	12	800-2113	2	Screw, Hex Head Cap (M12 x 1.75 x 35mm)
5	526-0145	6	Washer, Flat (M12)				
6	800-3032	6	Screw, Hex Head Cap (M12 x 1.25 x 30mm)				
7	526-0399-62	11	Washer, Flat (M10)				
8	800-3005	11	Screw, Hex Head Cap (M10 x 1.25 x 30mm)				

Starter Components (12V)



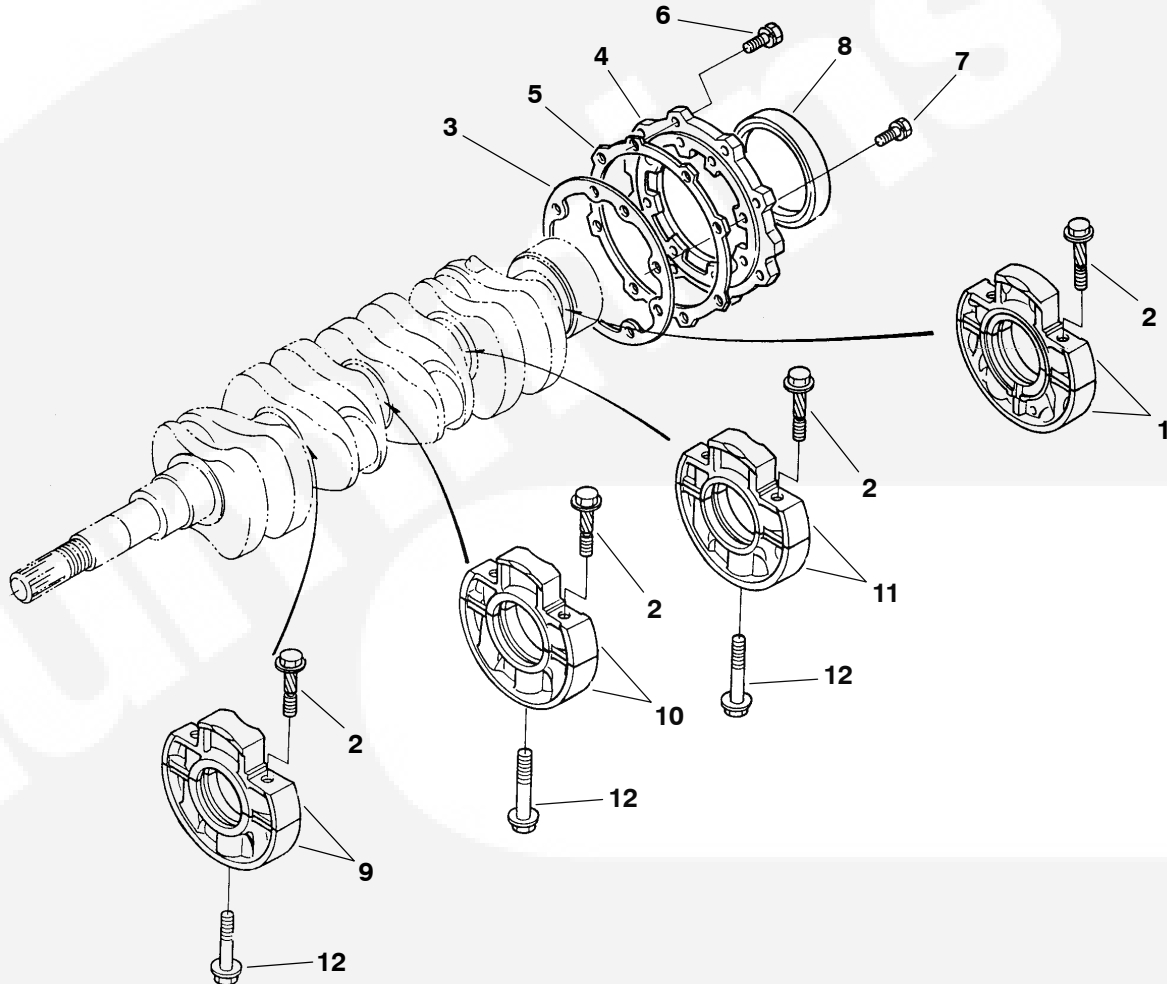
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-1959	1	Starter	11	191-1437	1	Bearing, Center
1	191-1450	4	Set, Screw	12	191-1436	1	Bearing, Rear
2	191-1449	1	Bracket Assy, Front	13	191-1992	1	Yoke Assy
3	191-1446	1	Gear	14	191-1993	1	Holder Assy, Brush
4	191-1445	1	Drive Assy	15	191-1433	1	Spring, Brush
5	191-1444	1	Cover Assy	16	191-1432	1	Bracket, Rear
6	191-1442	1	Stopper, Set	17	191-1431	1	Bolt, Set
7	191-1441	1	Lever Assy	18	191-1994	1	Switch, Solenoid
8	191-1991	1	Spring, Set	19	191-1447	1	Gear, Set
9	191-1439	1	Bracket Assy, Center	20	191-1448	1	Drive Assy
10	191-1438	1	Armature (Includes Bearings)				

Starter Components (24V)



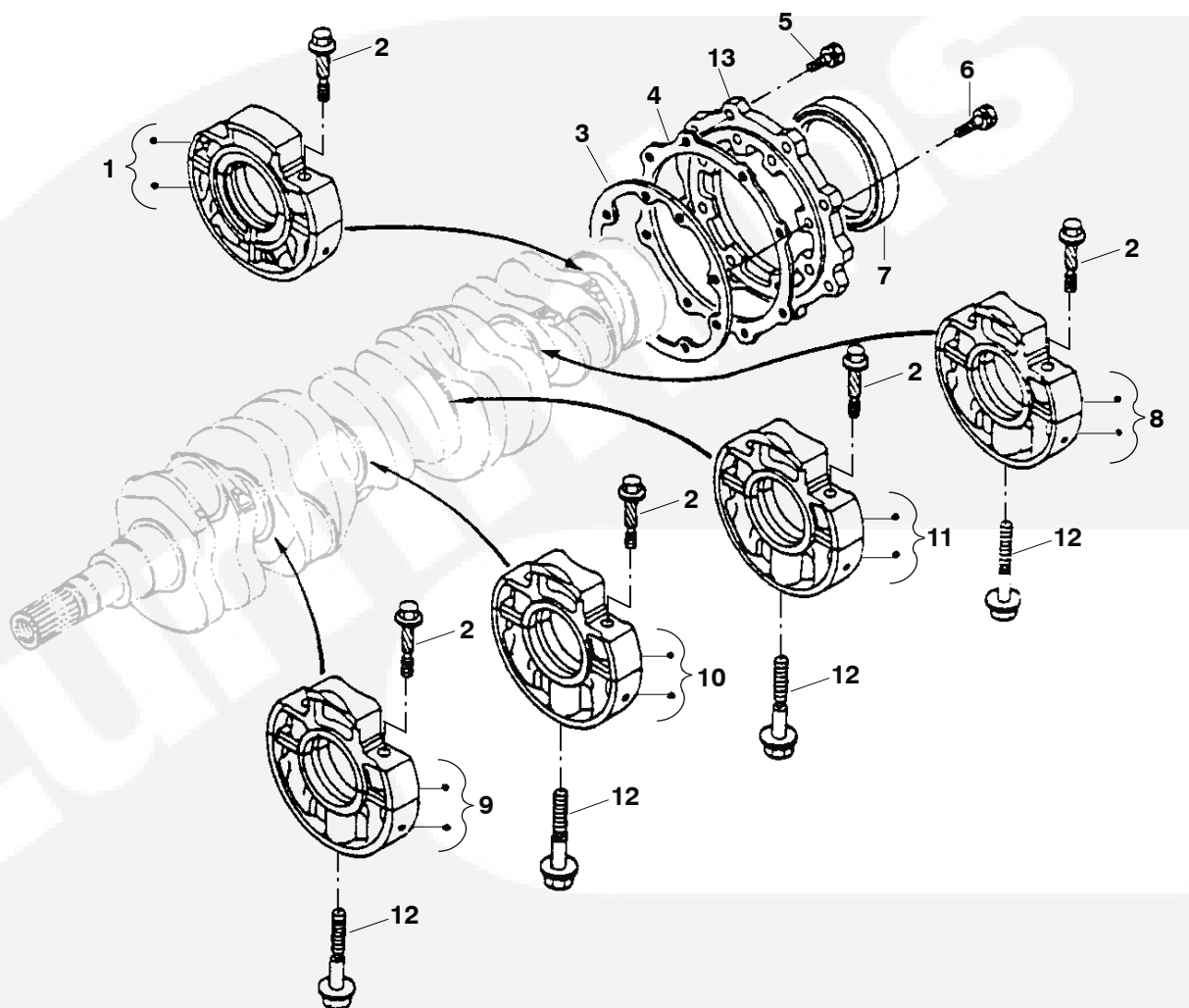
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-1550	1	Starter	11	191-1606	1	Armature (Includes Bearings)
1	191-1450	4	Set, Screw	12	191-1437	1	Bearing, Center Sleeve
2	191-1449	1	Bracket Assy, Front (Includes Bearing)	13	191-1436	1	Bearing, Rear Sleeve
3	191-1446	1	Gear	14	191-1607	1	Yoke Assy (Includes Pole Shoes, Field Coil, Positive Brushes)
4	191-1445	1	Drive	15	191-1608	1	Holder, Brush (Includes Negative Brushes)
5	191-1444	1	Cover Assy, Rear (Includes Cover Plate, Washers, Screws, and Snap Ring)	16	191-1433	4	Spring, Brush
6	191-1960	1	Pinion Set (Includes Pinion, Spring & Stopper Set)	17	191-1432	1	Bracket, Rear
7	191-1442	1	Stopper, Set (Includes Ring)	18	191-1431	1	Bolt, Set
8	191-1441	1	Lever Assy	19	191-1609	1	Switch, Solenoid (Includes Shims)
9	191-1440	1	Spring Set	20	191-1447	1	Gear, Set
10	191-1439	1	Bracket, Center	21	191-1448	1	Drive Assy

Main Bearing Housing MDKBD, MDKBE



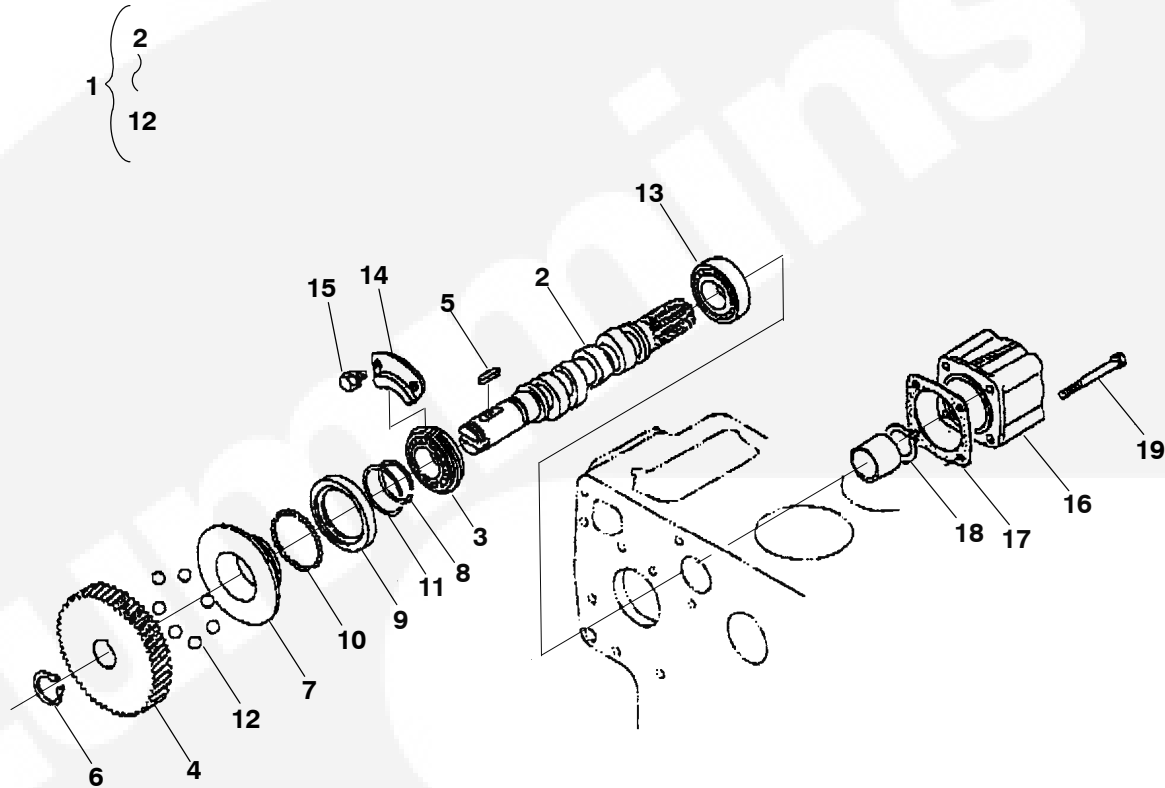
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5889	1	Housing, Main Bearing	7	185-2404	8	Bolt
2	185-5890	8	Bolt, Bearing Housing	8	185-5895	1	Seal, Oil
3	185-6766	1	Gasket, Bearing Housing	9	185-5896	1	Housing, Main Bearing
4	185-5892	1	Cover, Bearing Housing	10	185-5897	1	Housing, Main Bearing
5	185-5893	1	Gasket, Bearing Housing Cover	11	185-5898	1	Housing, Main Bearing
6	185-2403	8	Bolt	12	185-5899	3	Bolt, Bearing Housing

Main Bearing Housing MDKBF



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5889	1	Housing, Main Bearing	8	185-5896	1	Housing, Main Bearing
2	185-5890	10	Bolt, Bearing Housing	9	185-5897	1	Housing, Main Bearing
3	185-6766	1	Gasket, Bearing Housing	10	185-5898	1	Housing, Main Bearing
4	185-5893	1	Gasket, Bearing Housing Cover	11	185-6063	1	Housing, Main Bearing
5	185-2403	8	Bolt	12	185-5899	4	Bolt, Bearing Housing
6	185-2404	8	Bolt	13	185-5892	1	Cover, Bearing Housing
7	185-6062	1	Seal, Oil				

Fuel Camshaft (MDKBD and MDKBF)

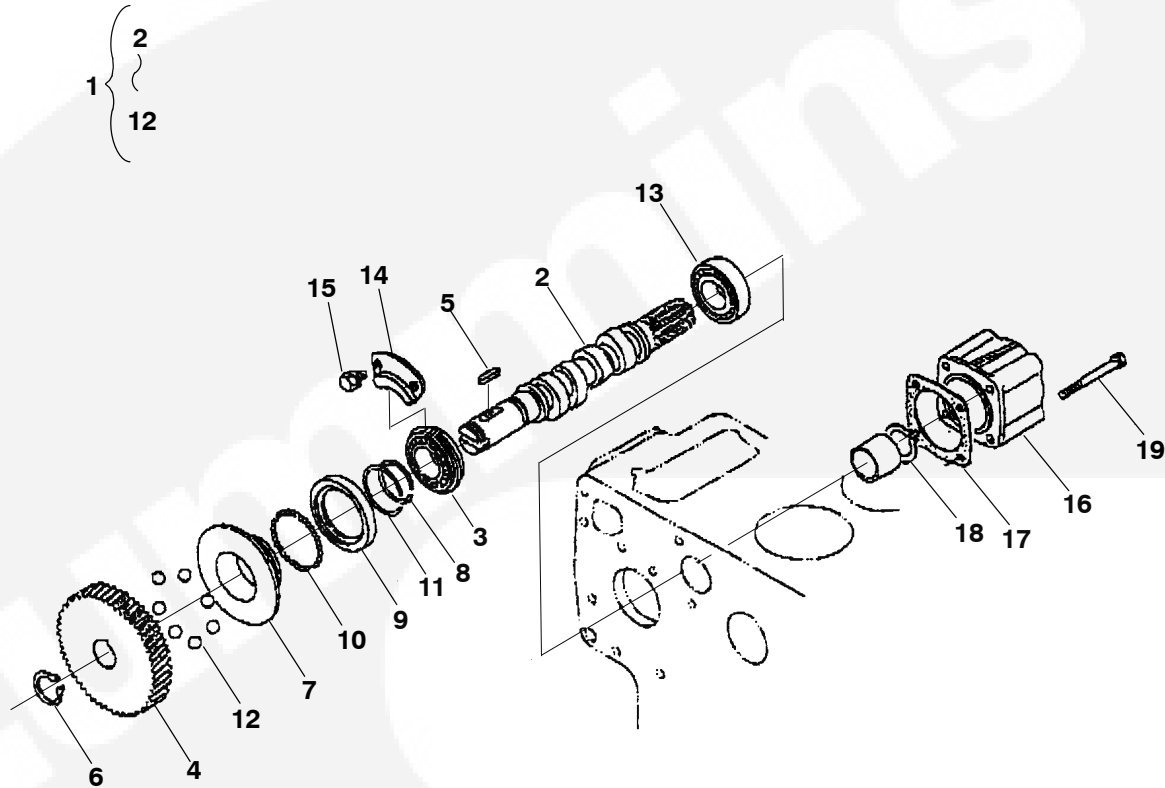


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	105-0737	1	Camshaft Assy, Fuel (Includes Parts Marked *)
2	105-0738	1	*Camshaft, Fuel
3	185-5947	1	*Bearing, Ball
4	147-0882	1	*Gear, Injection Pump
5	185-5949	1	*Key, Feather
6	185-5950	1	*Clip, External Circular
7	150-2798	1	*Sleeve, Governor
8	518-0712	1	*Clip, Governor Sleeve
9	150-2880	1	*Case, Governor Ball
10	150-0740	7	*Ball
11	518-0713	1	*Clip, Circular

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12	105-0741	1	*Ball
13	185-5961	1	Bearing, Ball
14	105-0739	1	Stopper, Fuel Camshaft
15	185-3009	2	Bolt
16	185-6772	1	Cover, Fuel Camshaft
17	185-6982	1	Gasket
18	185-5963	1	Clip, External Circular
19	800-6304	2	Bolt

* - Parts Included in Fuel Camshaft Assy

Fuel Camshaft (MDKBD and MDKBE)

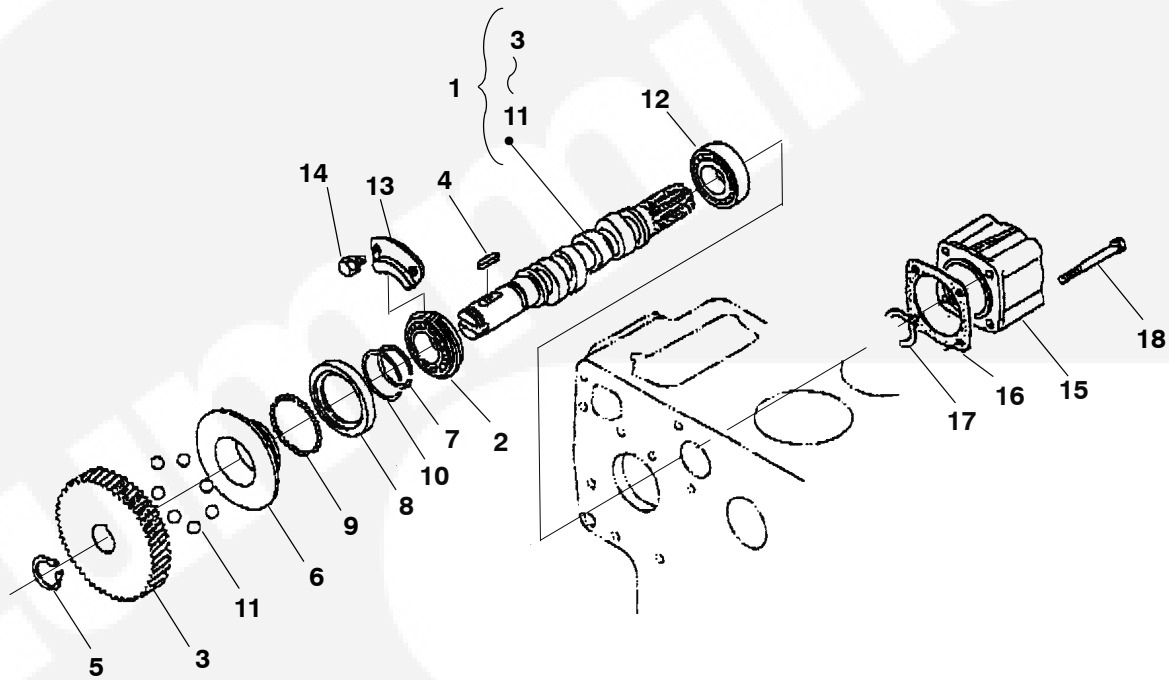


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	105-0737	1	Camshaft Assy, Fuel (Includes Parts Marked *)
2	105-0738	1	*Camshaft, Fuel
3	185-5947	1	*Bearing, Ball
4	147-0882	1	*Gear, Injection Pump
5	185-5949	1	*Key, Feather
6	185-5950	1	*Clip, External Circular
7	150-2798	1	*Sleeve, Governor
8	518-0712	1	*Clip, Governor Sleeve
9	150-2880	1	*Case, Governor Ball
10	150-0740	7	*Ball
11	518-0713	1	*Clip, Circular

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12	105-0741	1	*Ball
13	185-5961	1	Bearing, Ball
14	105-0739	1	Stopper, Fuel Camshaft
15	185-3009	2	Bolt
16	185-6772	1	Cover, Fuel Camshaft
17	185-6982	1	Gasket
18	185-5963	1	Clip, External Circular
19	800-6304	2	Bolt

* - Parts Included in Fuel Camshaft Assy

Fuel Camshaft (MDKBF)

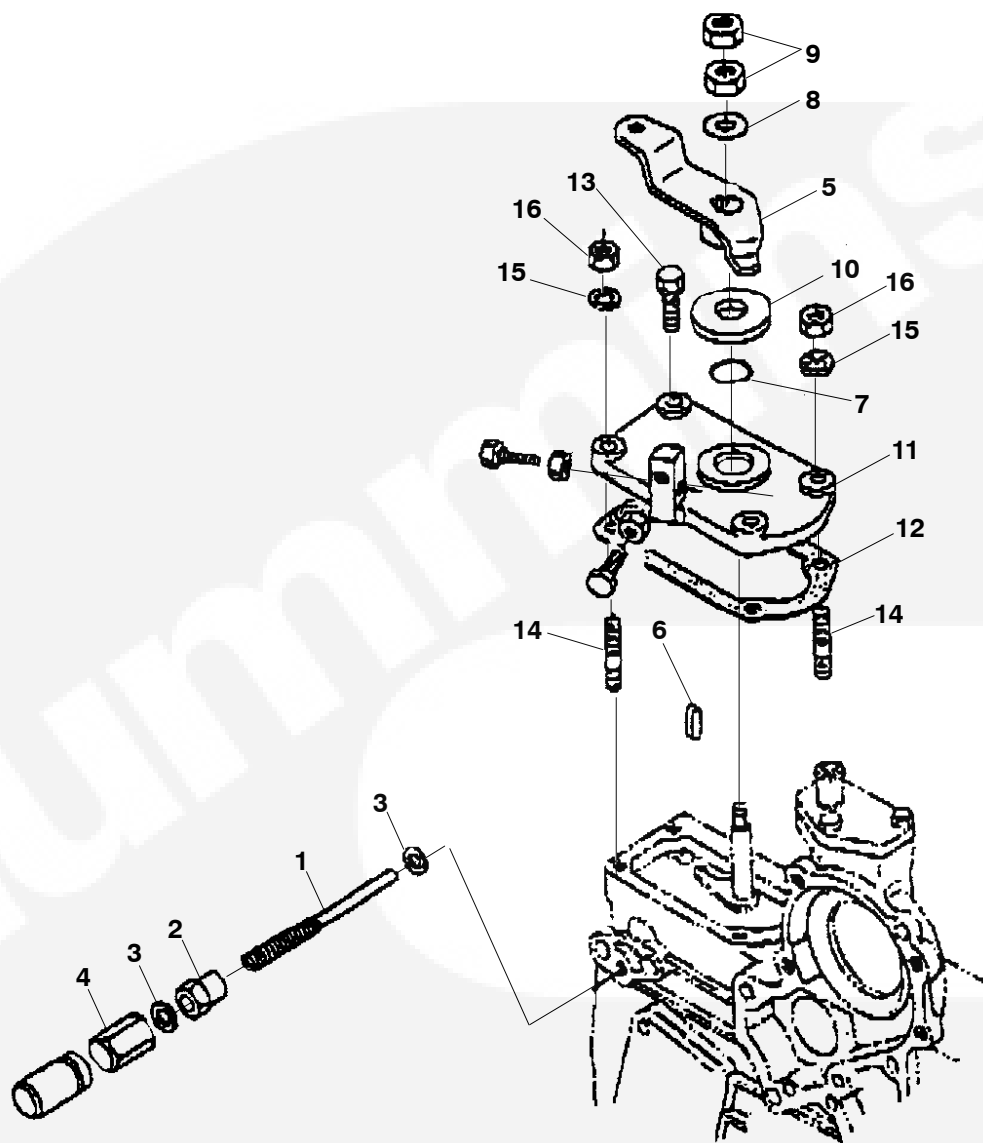


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A034T397	1	Camshaft Assy, Fuel (Includes Parts Marked *)	11	105-0741	1	*Ball
2	185-5947	1	*Bearing, Ball	12	A034T399	1	*Bearing, Ball
3	147-0882	1	*Gear, Injection Pump	13	185-5962	1	Stopper, Fuel Camshaft
4	185-5949	1	*Key, Feather	14	A040P213	1	Bolt
5	185-5950	1	*Circular Clip, External	15	185-5964	2	Cover, Fuel Camshaft
6	150-2798	1	*Sleeve, Governor	16	185-6963	1	Gasket
7	518-0712	1	*Circular Clip, Governor Sleeve	17	185-5963	1	Circular Clip, External
8	150-0280	1	*Case, Governor Ball	18	185-5676	1	Bolt
9	105-0740	1	*Ball				
10	518-0713	7	*Circular, Clip				

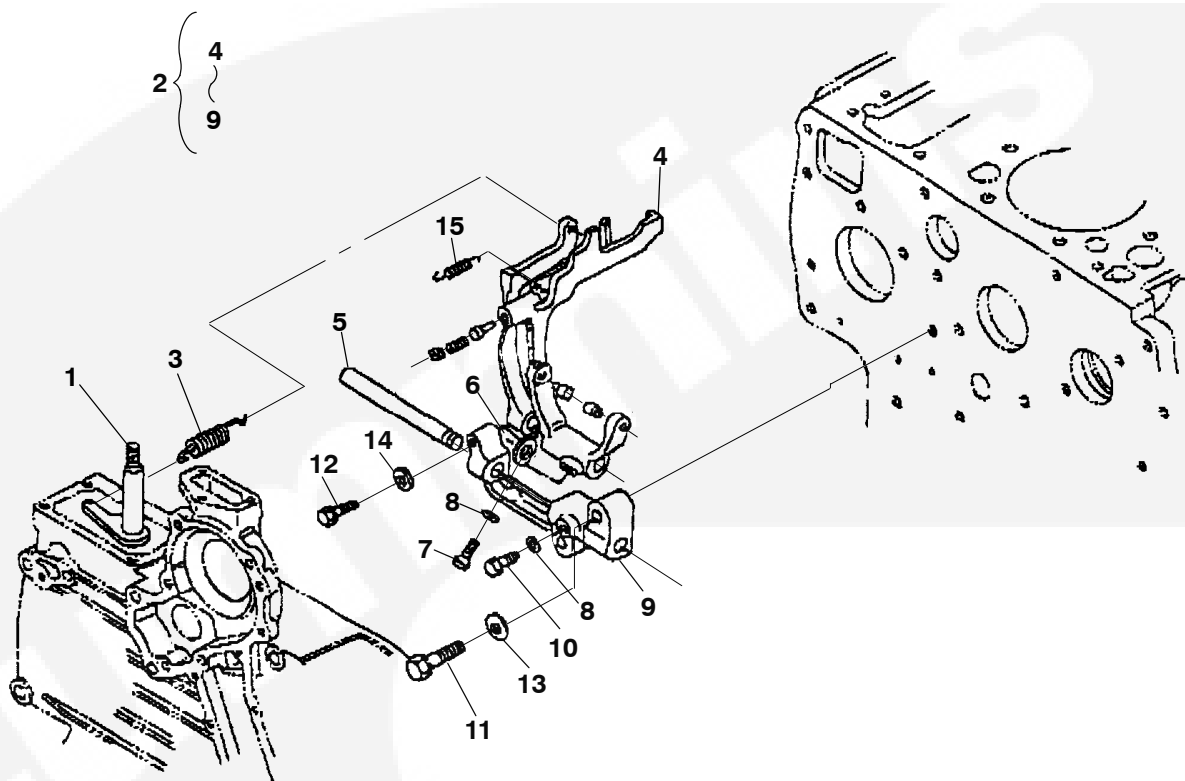
* – Parts Included in Fuel Camshaft Assy

Speed Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-6307	1	Bolt, Adjusting – Maximum Fuel	9	185-3033	2	Nut
2	860-2032	1	Nut	10	508-1191	1	Collar
3	185-2284	2	Gasket	11	152-0371	1	Plate, Speed Control
4	185-5529	1	Nut	12	185-6180	1	Gasket
5	152-0370	1	Lever, Speed Control	13	185-2390	2	Bolt
6	185-5415	1	Key, Feather	14	185-2105	2	Stud
7	509-0375	1	O'Ring	15	850-2083	2	Washer, Spring
8	526-2301	1	Washer, Plain	16	185-4255	2	Nut



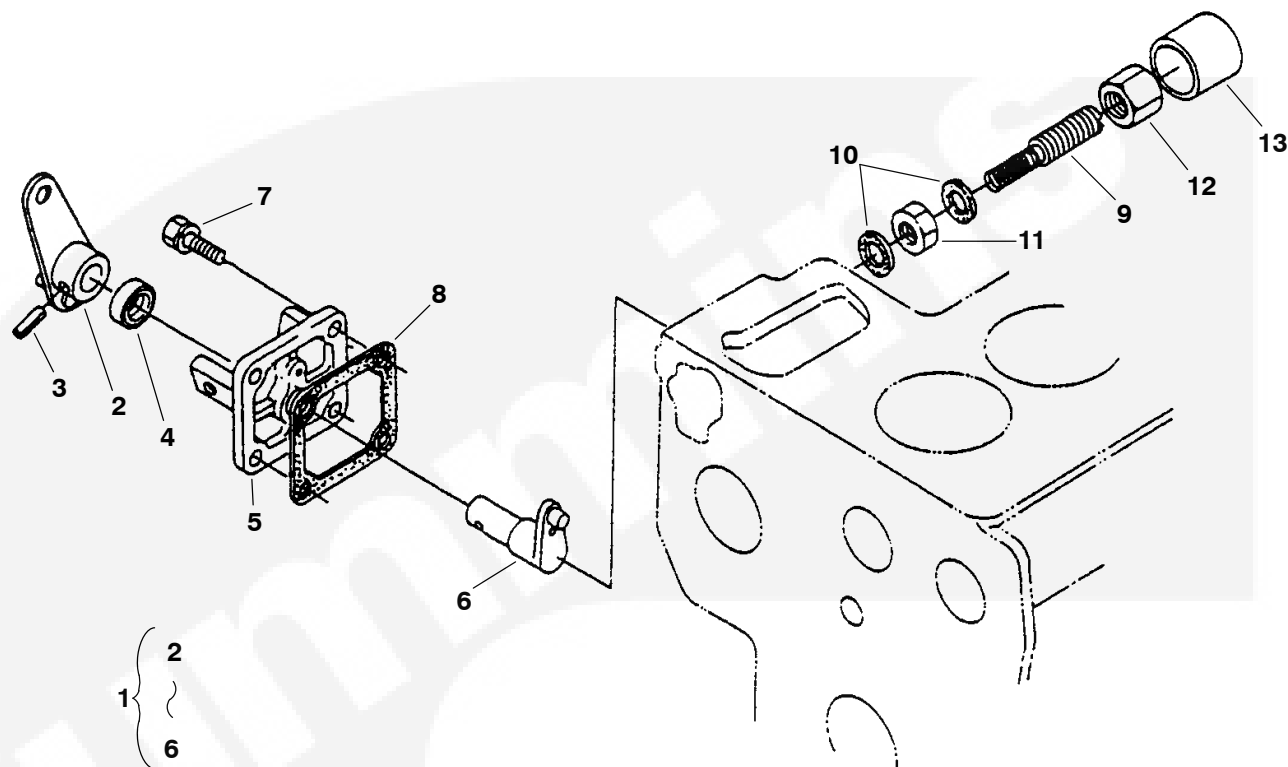
Governor



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2801	1	Lever, Governor	10	800-6306	1	*Bolt
2	150-2804	1	Lever Assy, Fork (Includes Parts Marked *)	11	185-6781	2	Bolt
3	506-0006	1	Spring, Governor	12	185-2392	1	Bolt
4	150-2802	1	*Lever Assy, Fork (Includes Pin)	13	740-1006	2	Washer, Plain
5	150-2805	1	*Shaft, Fork Level	14	185-6786	1	Washer, Plain
6	185-6163	1	*Bolt	15	506-0005	1	Spring, Start
7	800-6305	1	*Bolt, Flange				
8	850-2083	2	*Washer, Spring				
9	150-2803	1	*Holder, Fork Lever				

* - Parts Included in Fork Lever Assy.

Engine Stop Lever MDKBD, MDKBE

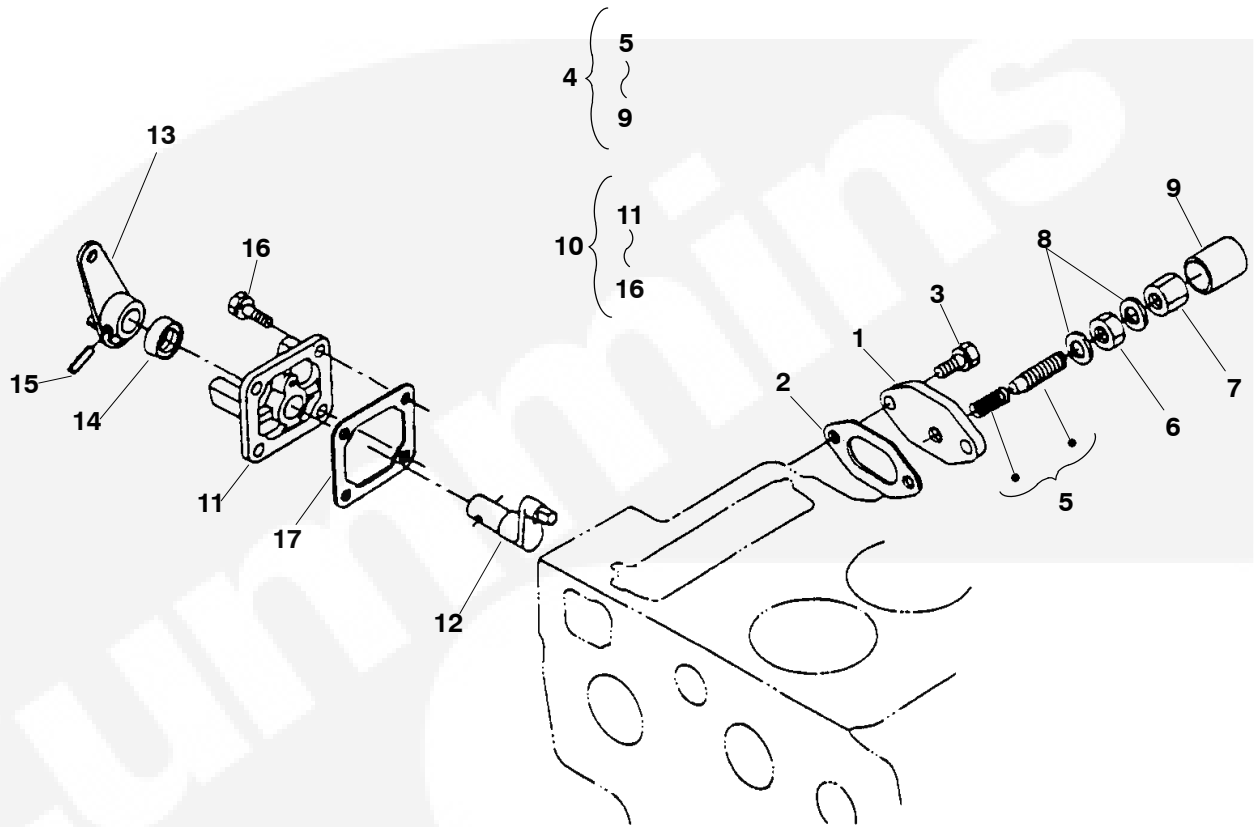


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6726	1	Lever Assy, Engine Stop (Includes Parts Marked #)
2	185-6775	1	#Lever, Engine Stop
3	185-2351	1	#Pin, Spring
4	185-2461	1	#Seal, Oil
5	185-6134	1	#Cover, Injection Pump
6	185-6135	1	#Shaft, Lever
7	185-2389	4	Bolt
8	185-5974	1	Gasket, Injection Pump Cover

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	185-6774	1	Bolt, Adjusting
10	185-2338	2	Gasket
11	185-5969	1	Nut
12	185-5970	1	Nut, Cap
13	185-5971	1	Cap

- Parts Included in Engine Stop Lever Assy

Engine Stop Lever MDKBF

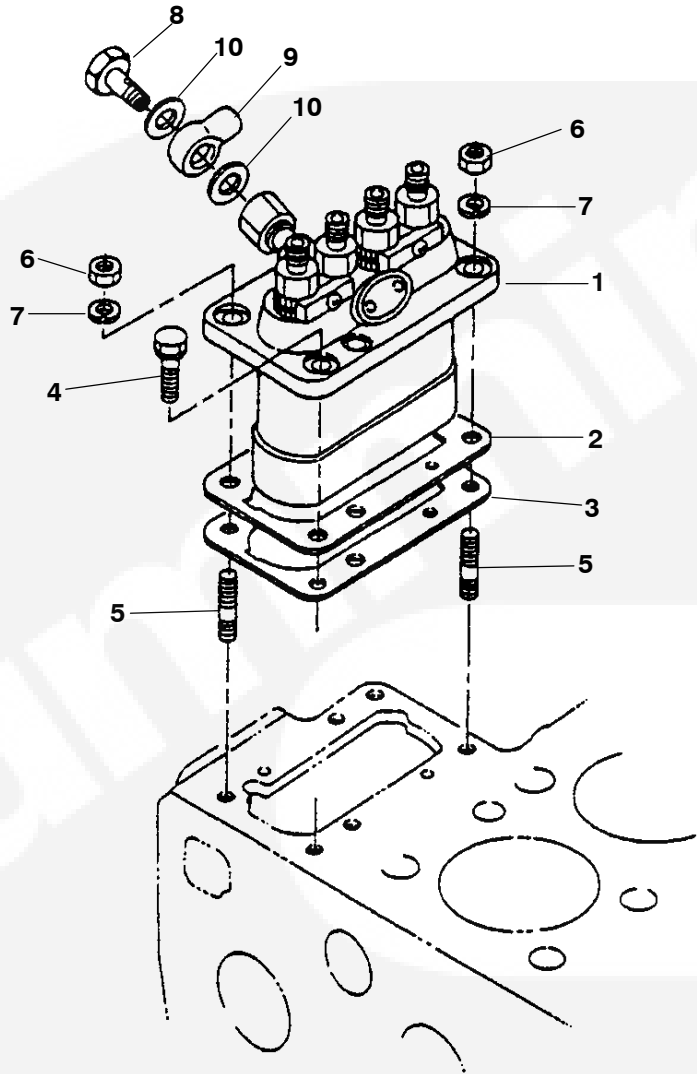


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6213	1	Cover	11	185-6134	1	# Cover, Injection Pump
2	185-7041	1	Gasket	12	185-6135	1	# Shaft, Lever
3	185-2388	2	Bolt	13	185-6775	1	# Lever, Engine Stop
4	185-7042	1	Bolt Assy, Adjusting – Governor Adjust (Includes Parts Marked *)	14	185-2461	1	# Seal, Oil
5	185-6774	1	*Bolt, Adjusting	15	185-2351	1	# Pin, Spring
6	185-5969	1	*Nut	16	185-2389	4	# Bolt
7	185-5970	1	*Nut, Cap	17	185-6985	1	Gasket
8	185-2338	2	*Gasket				
9	185-5971	1	*Cap				
10	185-6726	1	Lever Assy, Engine Stop (Includes Parts Marked #)				

* – Parts Included in Adjusting Bolt Assy.

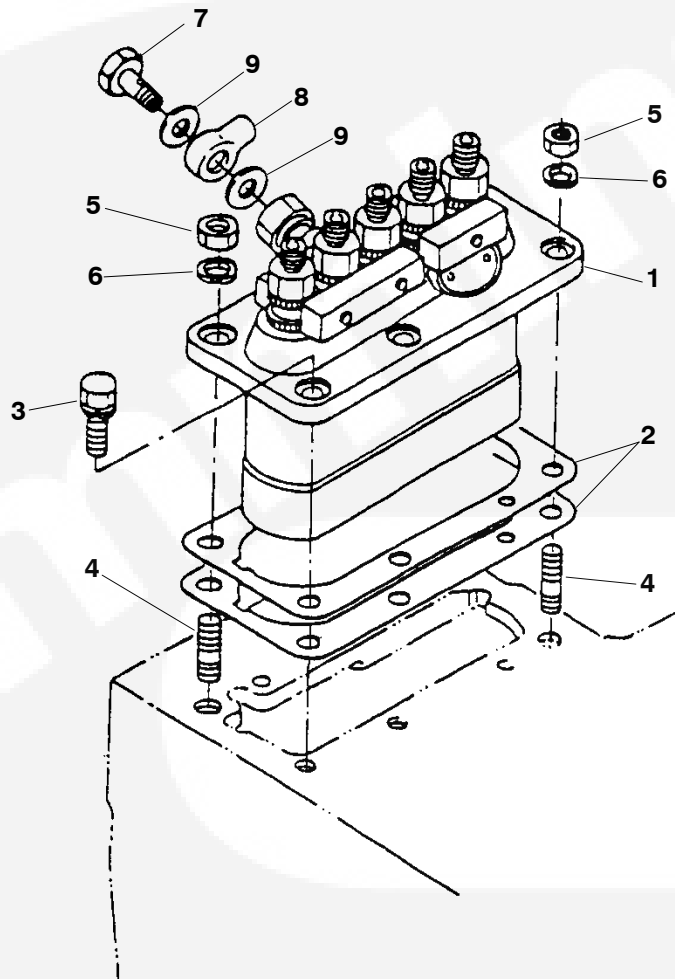
– Parts Included in Engine Stop Lever Assy.

Injection Pump MDKBD, MDKBE



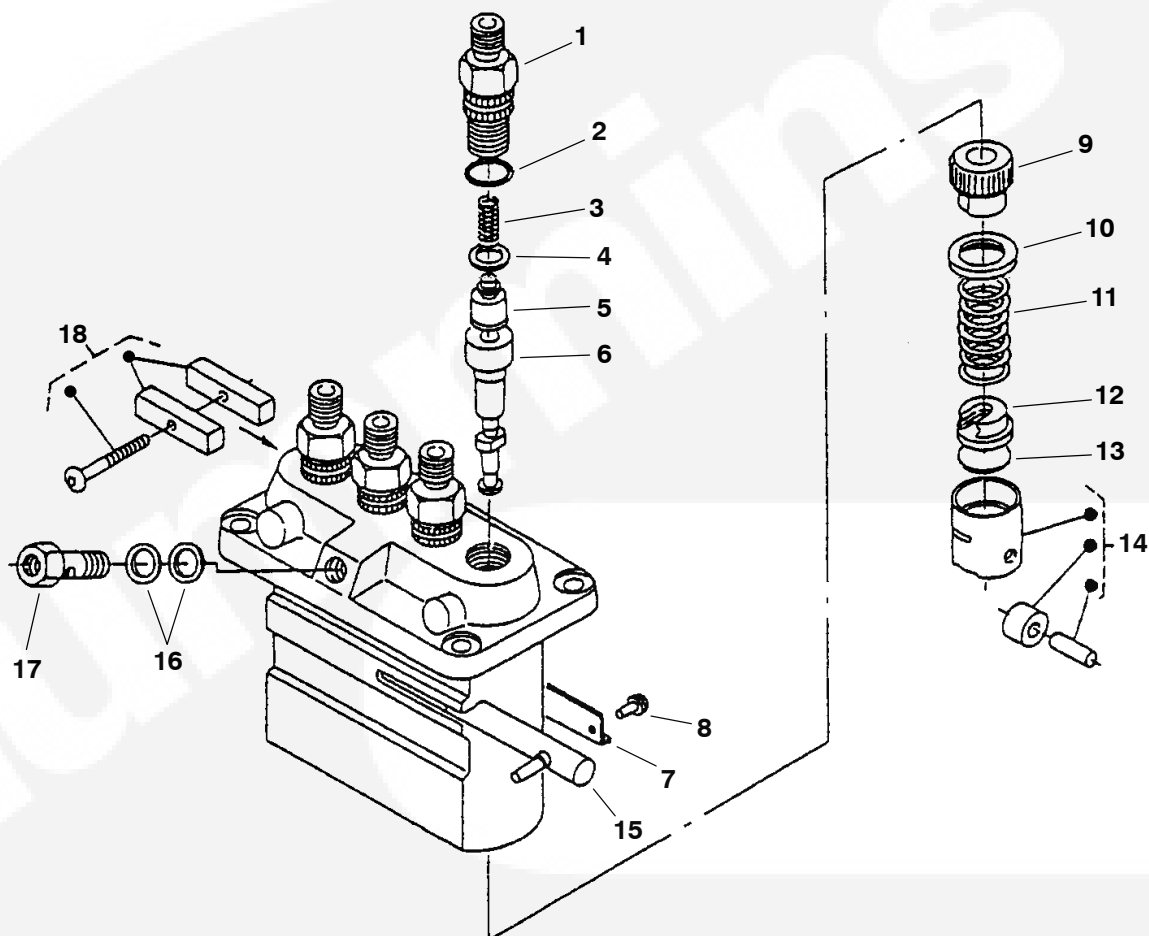
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7442	1	Pump Assy, Injection (See Separate Page for Components)	4	185-2402	4	Bolt
2			Shim	5	185-2106	2	Stud
	185-5976	2	Standard	6	185-2367	2	Nut
	185-6756	2	.20mm	7	185-6957	2	Washer, Spring
	185-6757	2	.25mm	8	185-7045	1	Screw, Follow
3			Shim	9	185-6418	1	Joint, Eye
	185-5977	1	.45mm	10	185-2578	2	Gasket
	185-6758	1	.30mm				

Injection Pump MDKBF



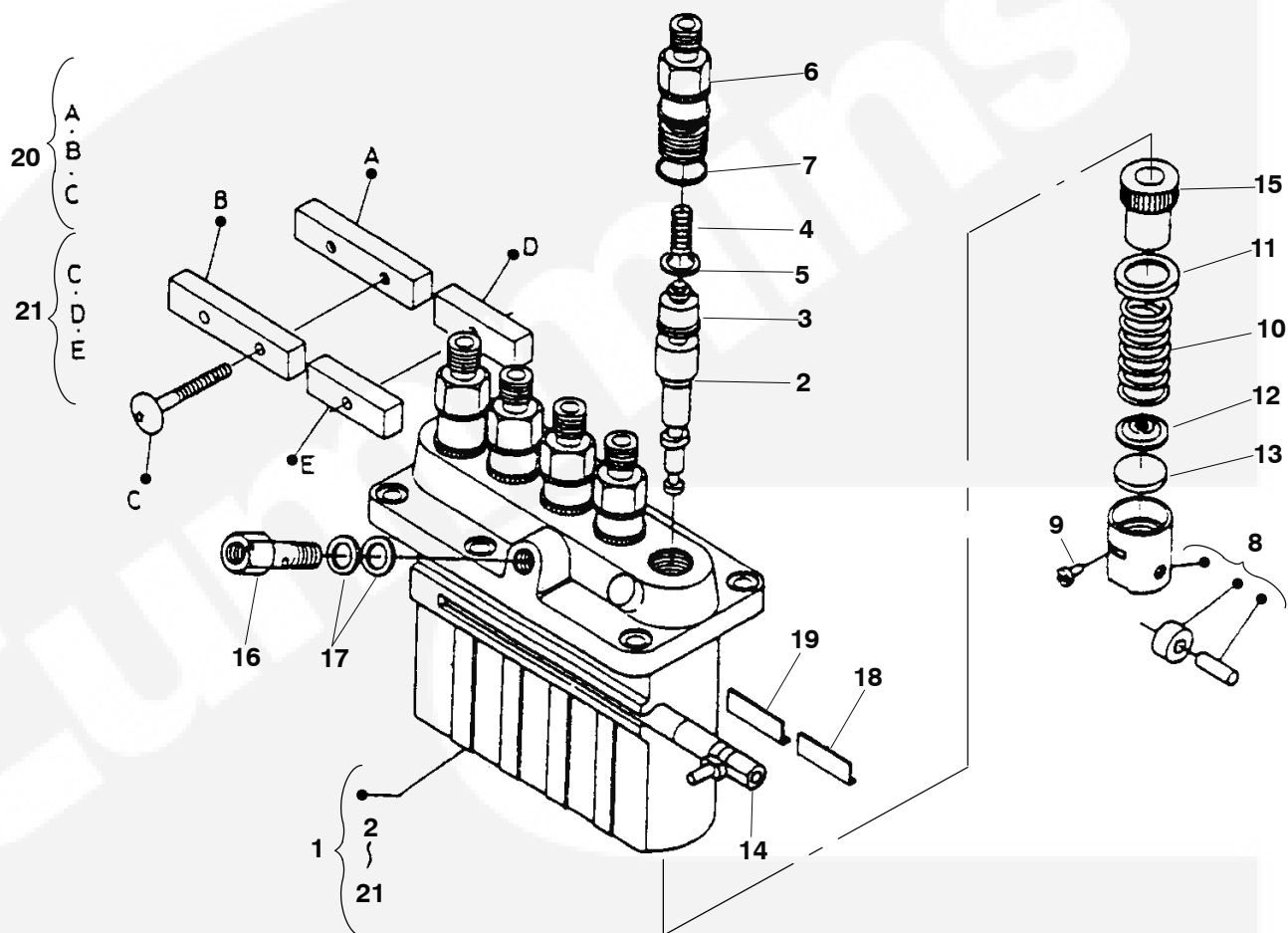
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7443	1	Pump Assy, Injection (See Separate Page for Components)	3	185-2402	4	Bolt
2			Shim	4	185-2362	2	Stud
	185-6796	1	.20mm	5	185-2367	2	Nut
	185-6091	1	.25mm	6	185-6957	2	Washer, Spring
	185-6795	1	.30mm	7	185-7045	1	Screw, Follow
				8	185-6418	1	Joint
				9	185-2578	2	Gasket

Injection Pump Components MDKBD, MDKBE



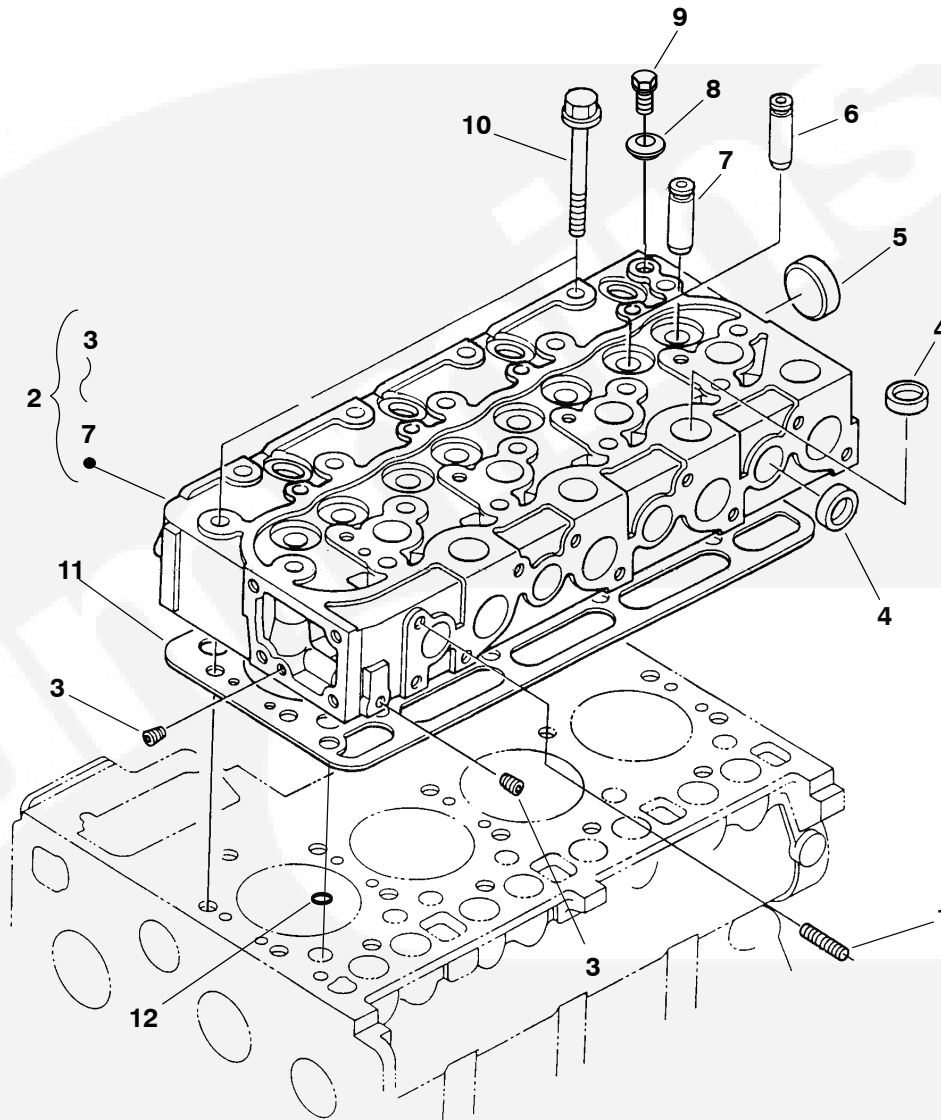
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185-7442	1	Pump Assy, Injection	10	185-6148	4	Seat, Upper Spring
1	185-6142	4	Holder, Delivery Valve	11	185-6147	4	Spring, Plunger
2	185-6155	4	O'Ring	12	185-6778	4	Seat, Lower Spring
3	185-6140	4	Spring, Delivery Valve	13	185-6151	4	Shim
4	185-6141	4	Gasket, Delivery Valve	14	185-6144	4	Tappet Assy
5	185-6139	4	Valve, Delivery	15	185-6150	1	Rack, Control
6	185-6138	4	Plunger, Pump	16	185-6154	2	Gasket
7	185-6146	2	Plate	17	185-6153	1	Screw, Hollow
8	185-6145	4	Pin, Tappet Guide	18	185-6143	2	Lock Assy, Plate
9	185-6152	4	Sleeve, Control				

Injection Pump Components MDKBF



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7443	1	Pump Assy, Injection	12	185-6778	5	Seat, Lower Spring
2	185-6216	5	Plunger, Pump	13	185-6151	5	Shim
3	185-6217	5	Valve, Delivery	14	185-6219	1	Rack, Control
4	185-6218	5	Spring, Delivery Valve	15	185-6152	5	Sleeve, Control
5	185-6993	5	Gasket, Delivery Valve	16	185-6153	1	Screw, Hollow
6	185-6142	5	Holder, Delivery Valve	17	185-6154	2	Gasket
7	185-6155	5	O'Ring	18	185-6146	1	Plate
8	185-6144	5	Tappet Assy	19	185-6994	1	Plate
9	185-6145	5	Pin, Tappet Guide	20	185-6143	1	Plate Assy, Lock
10	185-6147	5	Spring, Plunger	21	185-6220	1	Plate Assy, Lock
11	185-6148	5	Seat, Upper Spring				

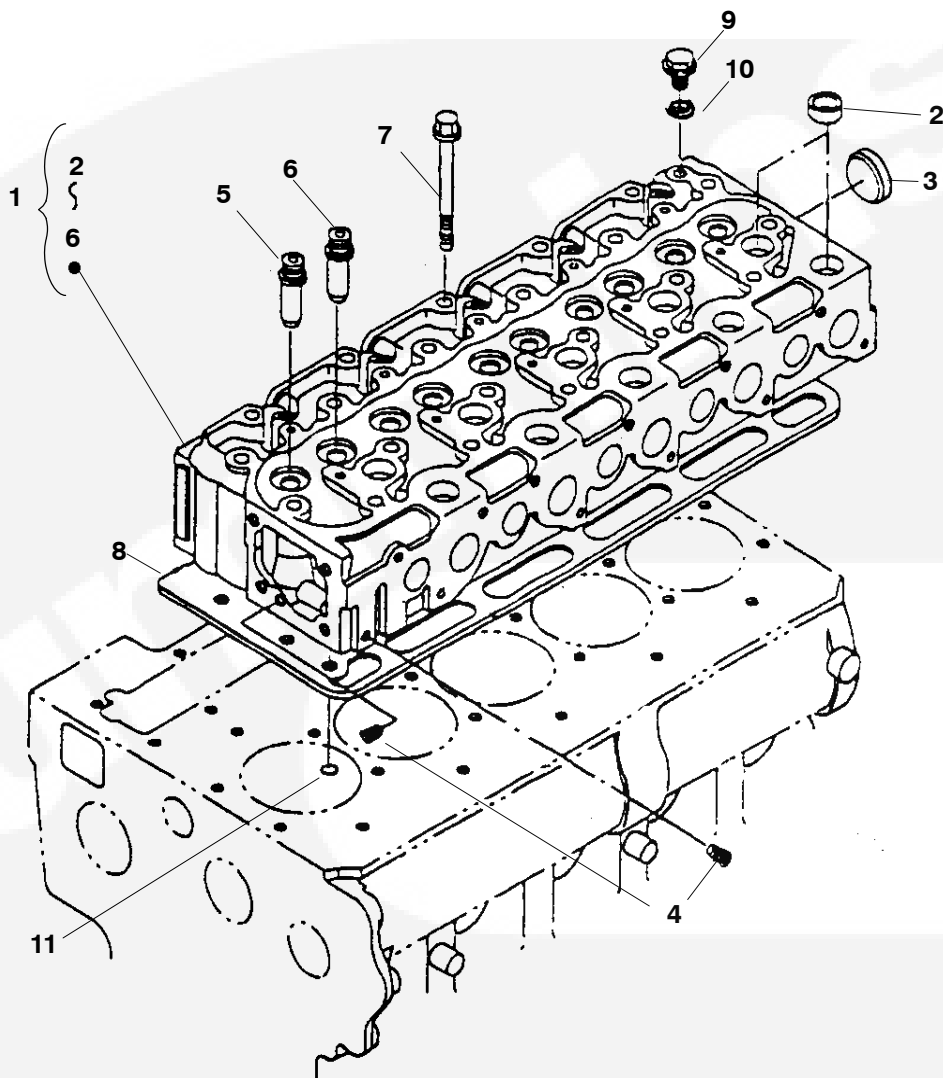
Cylinder Head MDKBD, MDKBE



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2106	1	MDKBD	7	185-5863	4	*Guide, Exhaust Valve
	185-6048	1	MDKBE	8	185-5868	1	Washer (With Rubber)
2			Head Assy, Cylinder (Includes Parts Marked *)	9	185-5867	1	Plug
	185-6763	1	MDKBD	10	185-5865	18	Bolt, Cylinder Head
	185-5860	1	MDKBE	11			Gasket, Cylinder Head
3	185-2188	2	*Plug		185-6764	1	MDKBD
4	185-5861	12	*Cap, Sealing		185-5866	1	MDKBE
5	185-2412	1	*Cap, Sealing	12	185-2095	1	O'Ring
6	185-5862	4	*Guide, Inlet Valve				

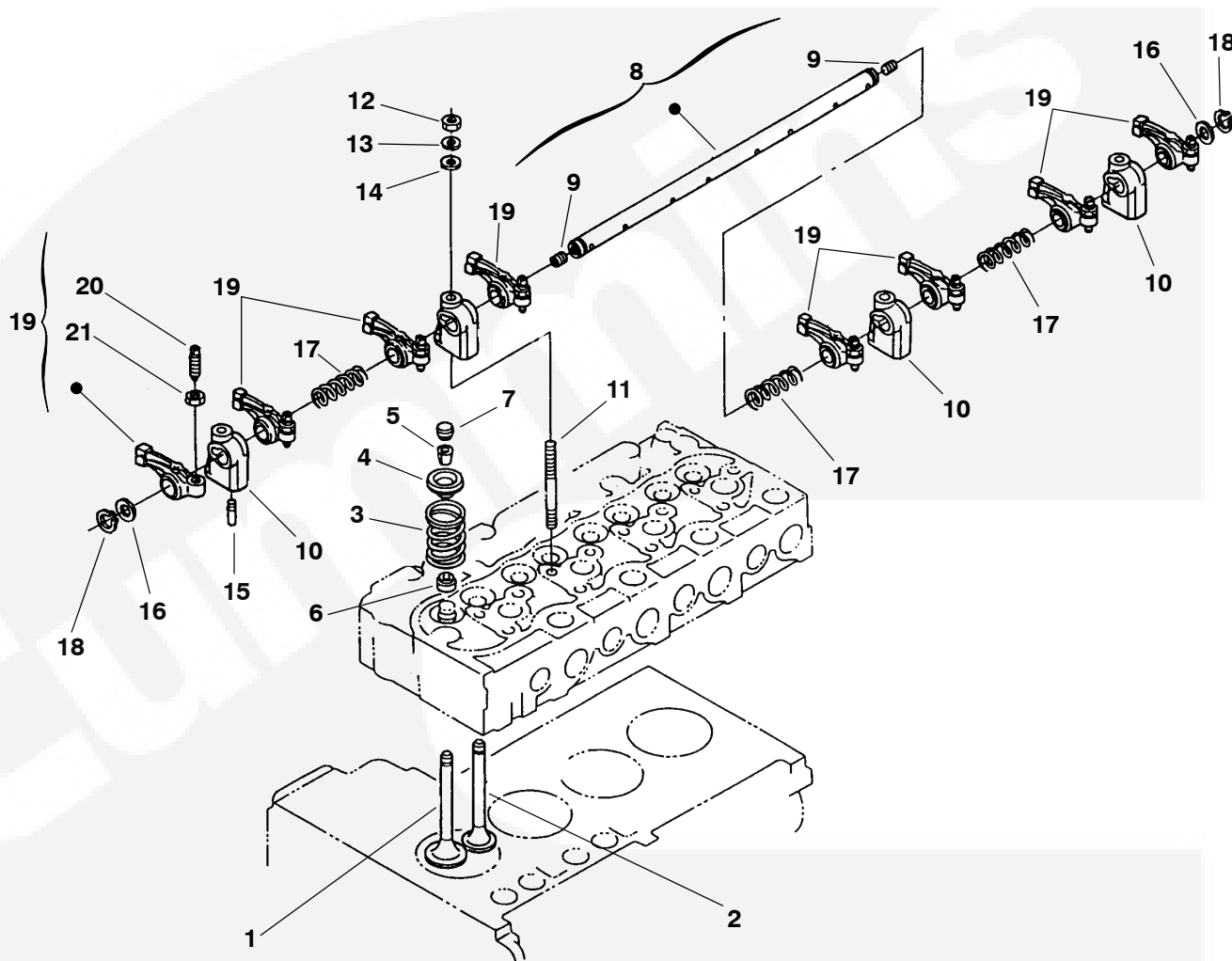
* - Parts Included in Cylinder Head Assy.

Cylinder Head MDKBF



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6049	1	Head Assy, Cylinder (Includes Parts Marked #)	8	185-6050	1	Gasket, Cylinder Head
2	185-5861	15	#Cap, Sealing	9	185-5867	1	Plug
3	185-2412	1	#Cap, Sealing	10	185-5868	1	Washer (with Rubber)
4	185-2188	2	#Plug	11	185-2095	1	O'Ring
5	185-5862	5	#Guide, Inlet Valve	# – Parts Included in Cylinder Head Assy.			
6	185-5863	5	#Guide, Exhaust Valve				
7	185-5865	22	Bolt, Cylinder Head				

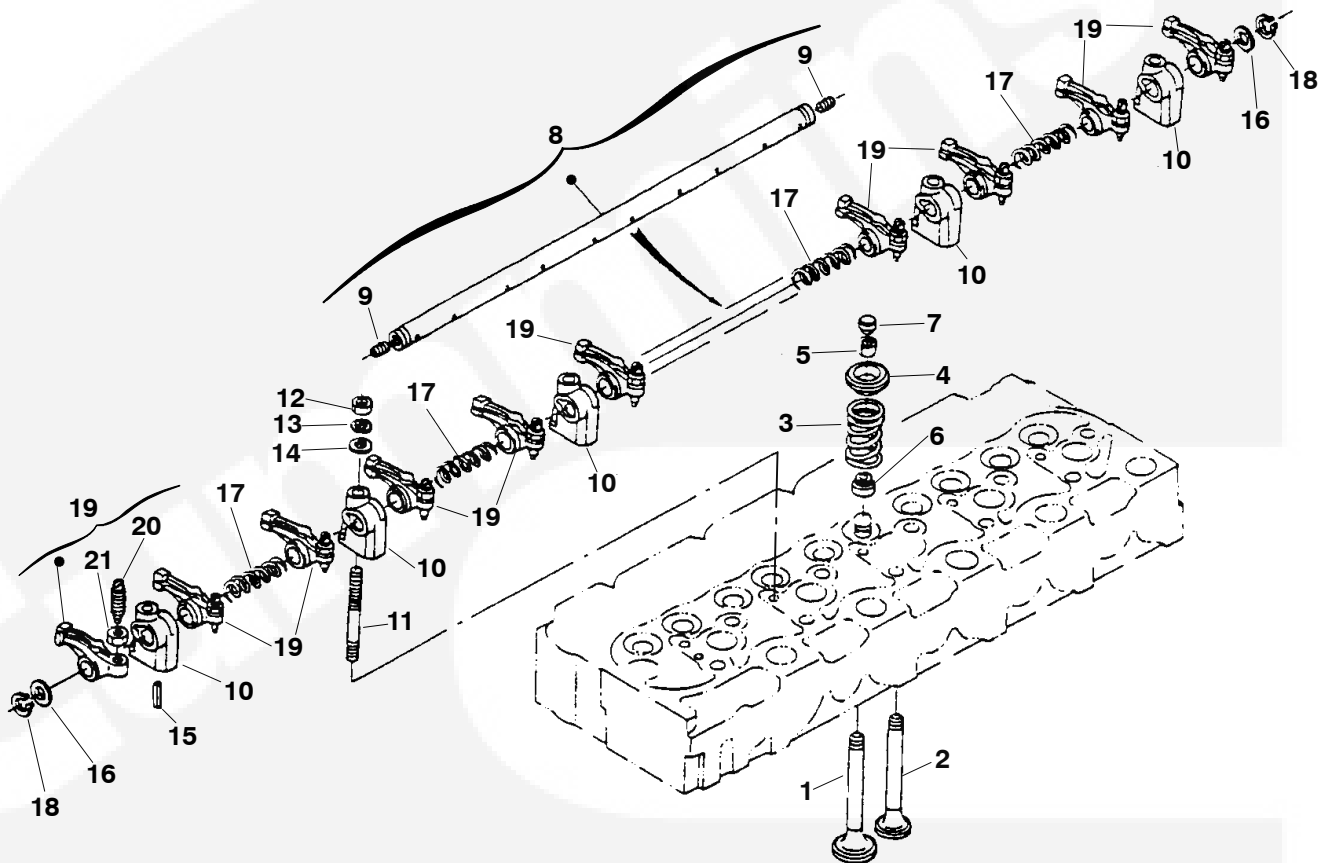
Rocker Arm MDKBD, MDKBE



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6107	4	Valve, Inlet
2	185-6108	4	Valve, Exhaust
3	185-6016	8	Spring, Valve
4	185-6017	8	Retainer, Valve Spring
5	110-3584	8	Collet, Valve Spring
6	185-6018	8	Seal, Valve Stem
7	185-6019	8	Cap, Valve
8	185-6020	1	Shaft Assy, Rocker Arm (Includes Set Screws)
9	185-6242	2	Screw, Set
10	185-6022	4	Bracket, Rocker Arm
11	185-6023	4	Stud

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12	185-2367	4	Nut
13	185-6957	4	Washer, Spring
14	740-1006	4	Washer, Flat
15	185-6789	1	Pin, Spring
16	185-6025	2	Washer, Rocker Arm Shaft
17	185-6026	3	Spring, Rocker Arm
18	185-6027	2	Ring, External Retaining
19	185-6028	8	Arm Assy, Rocker (Includes Screw and Nut)
20	185-6029	8	Screw, Adjusting
21	185-6030	8	Nut

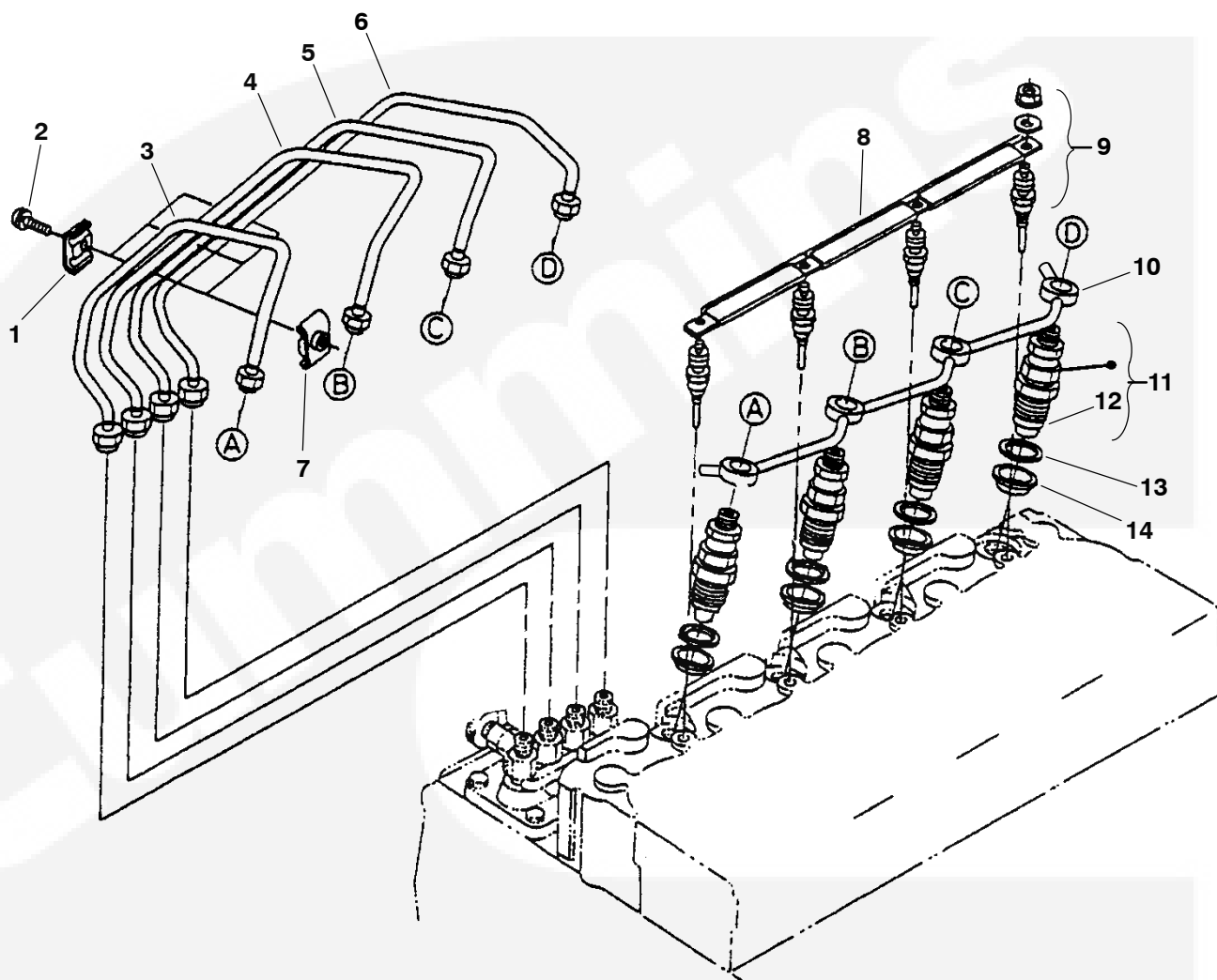
Rocker Arm MDKBF



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6107	5	Valve, Inlet
2	185-6108	5	Valve, Exhaust
3	185-6016	10	Spring, Valve
4	185-6017	10	Retainer, Valve Spring
5	110-2752	10	Collet, Valve Spring
6	185-6018	10	Seal, Valve Stem
7	185-6019	10	Cap, Valve
8	185-7063	1	Shaft Assy, Rocker Arm (Includes Set Screws)
9	185-6242	2	Screw, Set
10	185-6022	5	Bracket, Rocker Arm
11	185-6023	5	Stud

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12	185-2367	5	Nut
13	185-6957	5	Washer, Spring
14	740-1006	5	Washer, Flat
15	185-6789	1	Pin, Spring
16	185-6025	2	Washer
17	185-6026	4	Spring, Rocker Arm
18	185-6027	2	Ring, External Retaining
19	185-6028	10	Arm Assy, Rocker (Includes Screw and Nut)
20	185-6029	10	Screw, Adjusting
21	185-6030	10	Nut

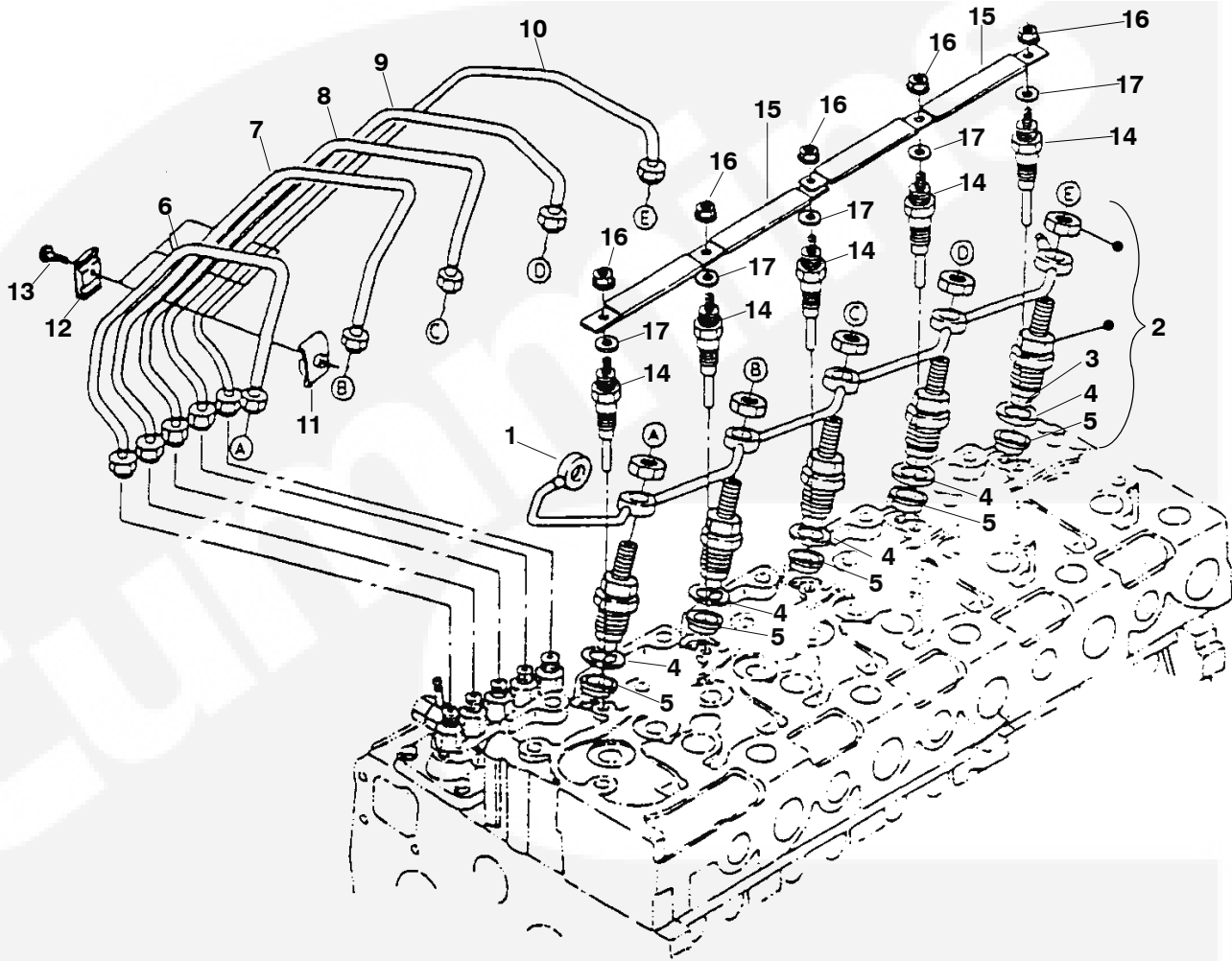
Nozzle Holder MDKBD, MDKBE



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2345	3	Clamp, Pipe
2	185-2385	3	Screw (With Washer)
3	185-5986	1	Pipe, Injection
4	185-5987	1	Pipe, Injection
5	185-5988	1	Pipe, Injection
6	185-5989	1	Pipe, Injection
7	185-5612	3	Clamp, Pipe
8	185-5991	1	Cord, Glow Plug
9			Assy, Glow Plug (Includes Nut and Washer)
	185-5990	4	12V
	185-6725	4	24V

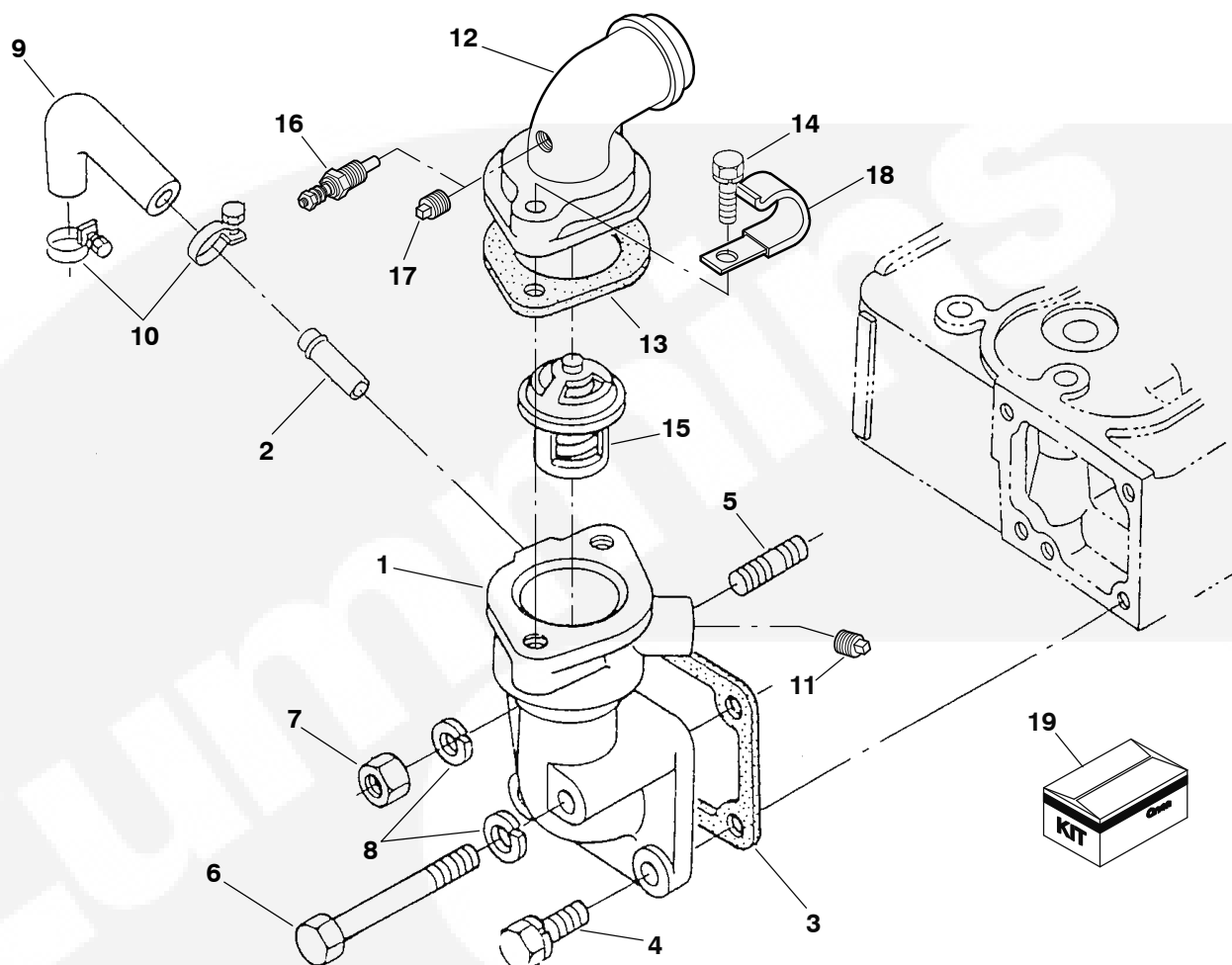
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	185-6731	1	Pipe, Overflow
11	185-6094	4	Holder Assy, Nozzle (Includes Nozzle)
12	185-6095	4	Nozzle
13	185-5337	4	Gasket, Nozzle
14	185-5985	4	Seal, Heat

Nozzle Holder and Glow Plug MDKBF



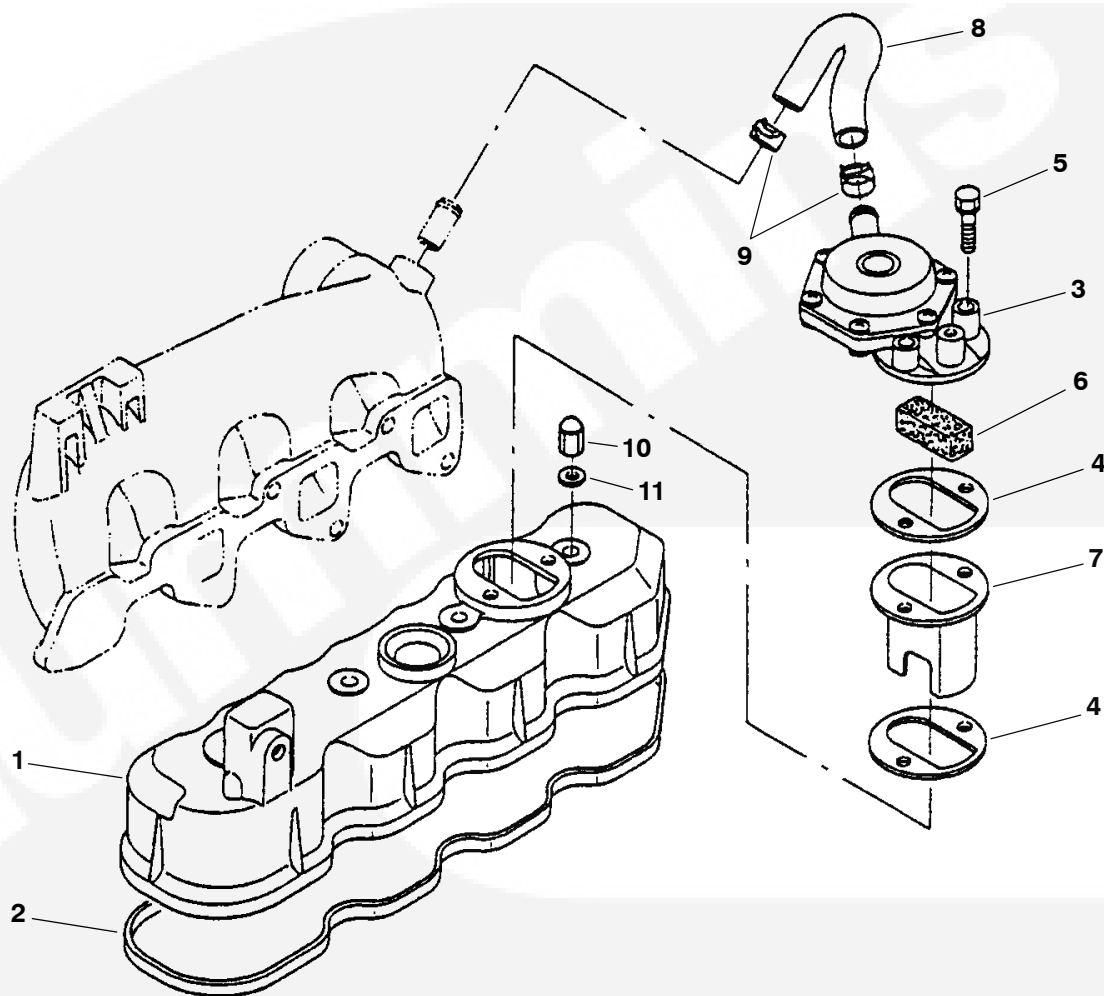
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7050	1	Pipe, Overflow	11	185-5612	5	Clamp, Pipe
2	185-6094	5	Holder Assy, Nozzle (Includes Nozzle, Gasket and Heat Seal)	12	185-2345	5	Clamp, Pipe
3	185-6095	5	Nozzle	13	185-2385	5	Screw (With Washer)
4	185-5337	5	Gasket	14			Plug, Glow
5	185-5985	5	Seal, Heat		185-5990	5	12V
6	185-6096	1	Pipe, Injection		185-6725	5	24V
7	185-6097	1	Pipe, Injection	15	185-6225	2	Cord, Glow Plug
8	185-6098	1	Pipe, Injection	16	185-5615	5	Nut, Flange
9	185-6099	1	Pipe, Injection	17	185-7004	5	Washer, Flat
10	185-6100	1	Pipe, Injection				

Water Outlet Flange



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6788	1	Flange, Water Outlet (Includes Pipe)	15	185-6005	1	Thermostat + Sender, Water Temperature (E2)
2	185-6103	1	Pipe, Water Return		193-0318	1	Negative Ground
3	185-5999	1	Gasket		193-0457-01	1	Isolated Ground
4	185-2402	2	Bolt	17	505-0110	1	Plug, Square Head Pipe (3/8") MDKBD, MDKBE
5	185-2362	1	Stud	18	518-0515	1	Clip, Wire (MDKBF)
6			Bolt	19			*Kit, Sender (Includes Water Temperature Sender)
	185-5443	1	MDKBD, MDKBE		300-5040	1	Negative Ground
	185-7060	1	MDKBF		300-5041	1	Isolated Ground
7	185-2367	1	Nut	* - Kit Also Includes Oil Pressure Sender Listed on Oil Pan Page. + - Water Temperature Sender ties to E2-2 Iso Harness (See Isolated Ground 338-4200-01)			
8	185-6957	2	Washer, Spring				
9	185-6000	1	Pipe, Water Return				
10	185-6001	2	Band, Pipe				
11	185-5826	1	Plug				
12	185-6003	1	Cover, Thermostat				
13	185-6004	1	Gasket, Thermostat Cover				
14			Bolt				
	185-2365	2	MDKBD, MDKBE				
	185-2565	2	MDKBF				

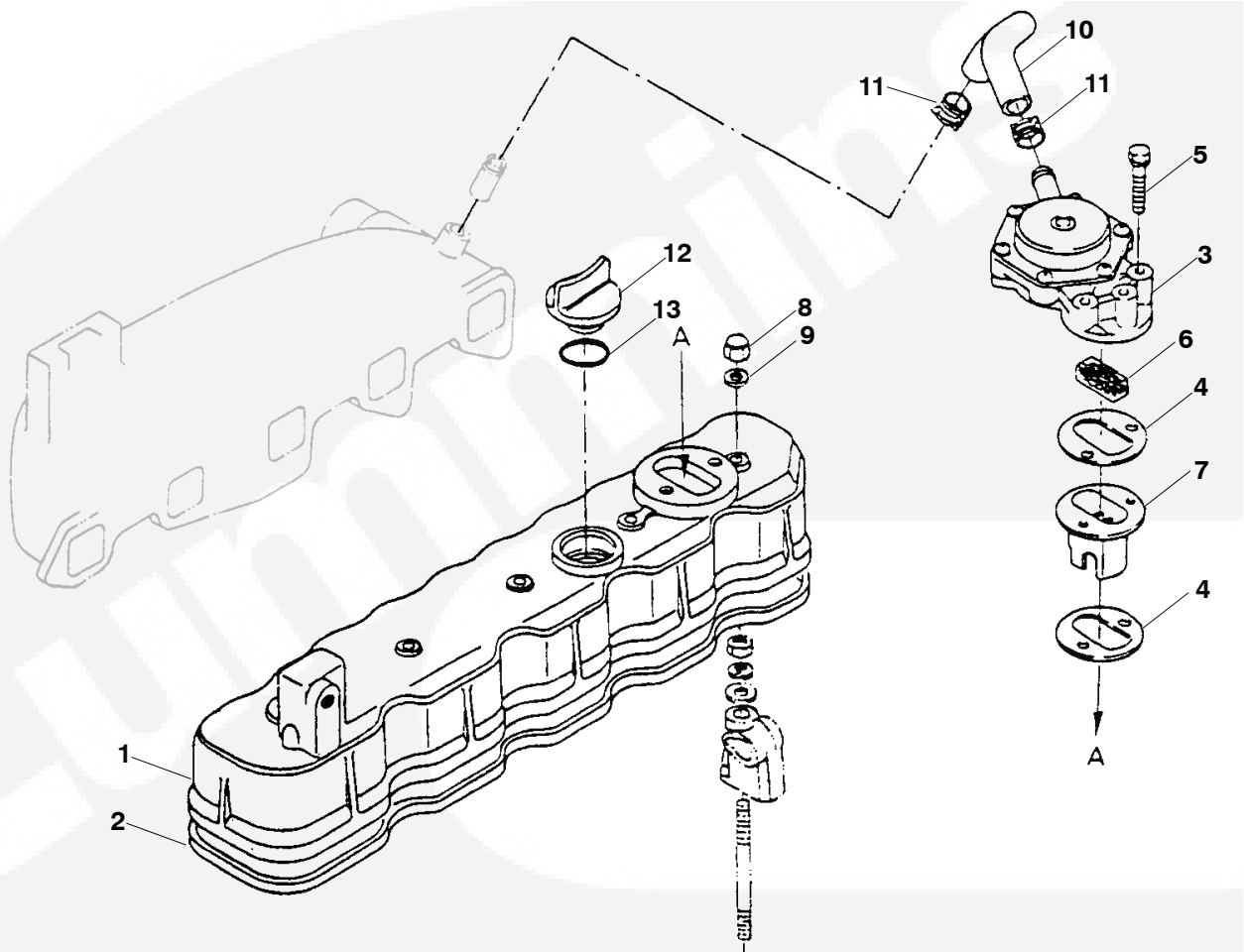
Cylinder Head Cover MDKBD, MDKBE



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6716	1	Cover, Cylinder Head
2	185-5887	1	Gasket, Cover
3	185-6720	1	Breather
4	185-6717	2	Gasket, Breather
5	718-1040	2	Bolt
6	185-6721	1	Element, Breather

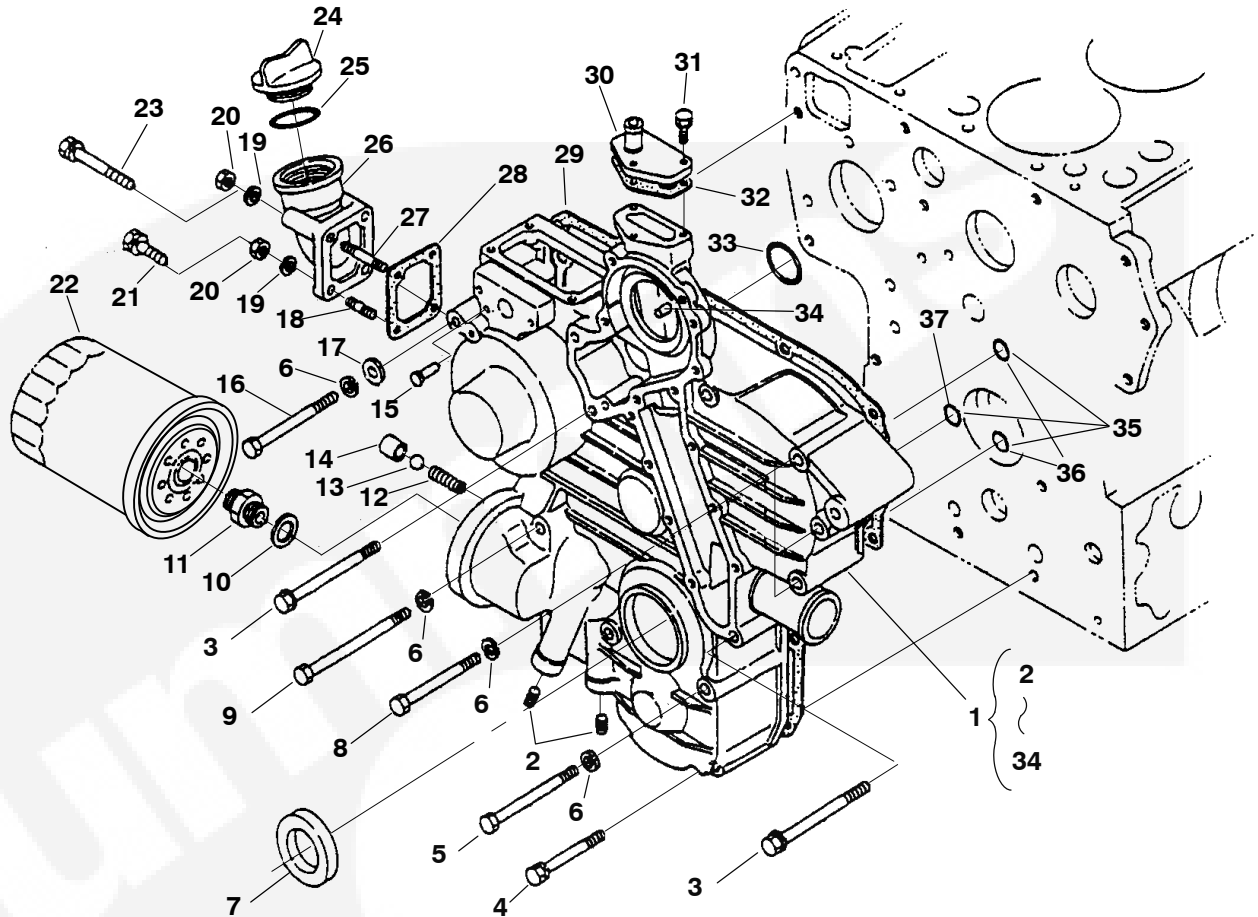
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	185-6718	1	Plate
8	185-6719	1	Tube, Breather
9	185-6722	2	Clamp, Hose
10	185-5888	4	Nut, Cap
11	185-2338	4	Gasket

Cylinder Head Cover MDKBF



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6804	1	Cover, Cylinder Head	8	185-5888	5	Nut, Cap
2	185-6054	1	Gasket, Cover	9	185-2338	5	Gasket
3	185-6720	1	Breather	10	185-6719	1	Tube, Breather
4	185-6967	2	Gasket	11	185-6722	2	Clamp
5	718-1040	2	Bolt	12	185-5407	1	Cover, Oil Fill
6	185-6721	1	Element, Breather	13	185-2349	1	O'Ring
7	185-6718	1	Plate				

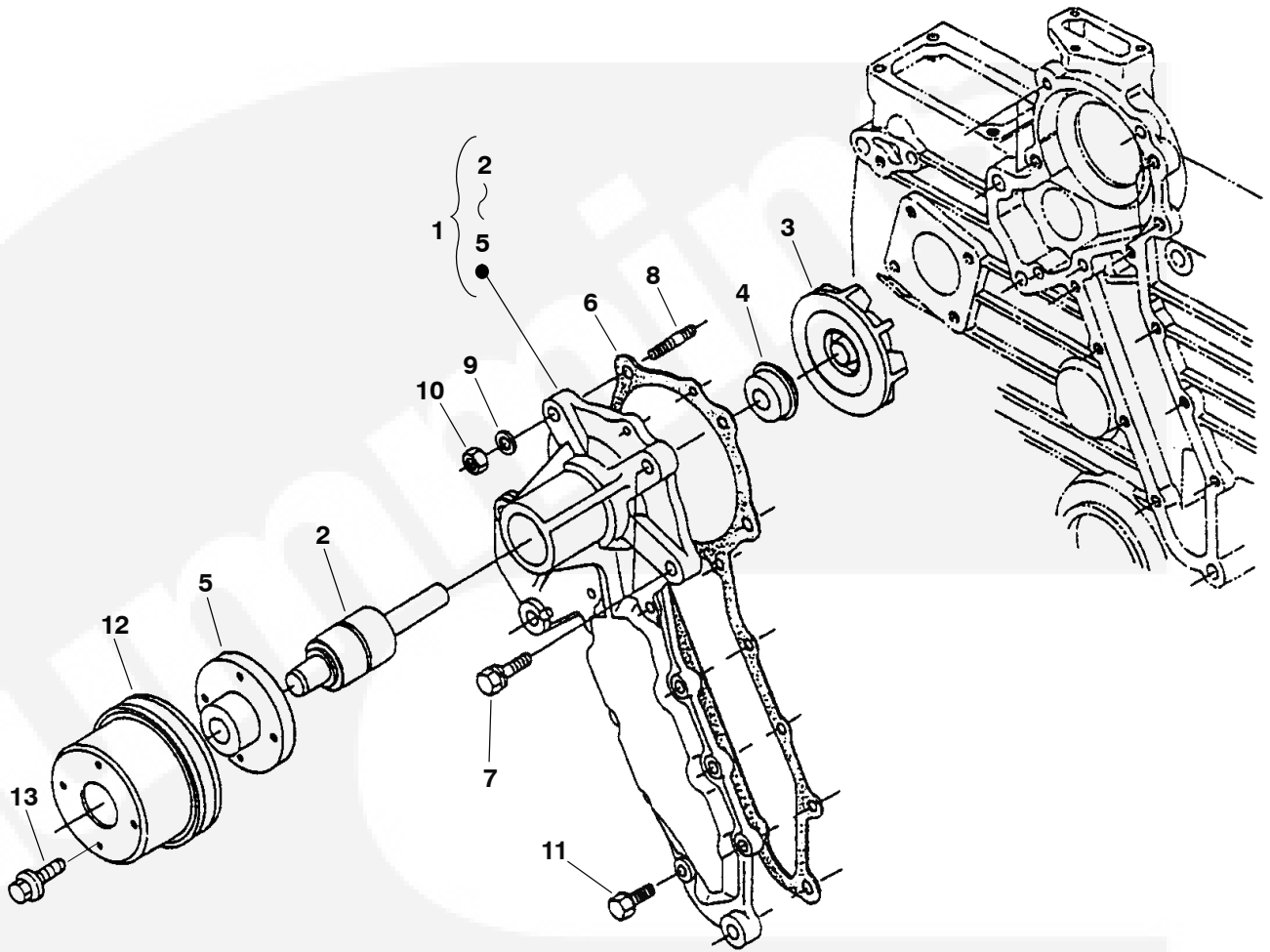
Gearcase



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Gearcase Assy (Includes Parts Marked *)	20	185-4255	4	MDKBE)
	185-6765	1	MDKBD, MDKBE	21	185-2389	2	Nut (MDKBD, MDKBE)
	185-6712	1	MDKBF	22	122-0810	1	Bolt (Bottom)(MDKBF)
2	185-5505	2	*Plug	23	185-5833	2	Filter, Oil
3	185-5874	3	Bolt	24	185-5407	1	Bolt (Top)(MDKBF)
4	185-2405	2	Bolt	25	185-2349	1	Plug, Oil Fill
5	185-5873	2	Bolt	26	185-6124	1	O'Ring
6	185-6957	10	Washer, Spring	27	185-6126	1	Flange, Oil Fill
7	185-6204	1	Seal, Oil (MDKBF for MDKBD and MDKBE see Crankshaft page)	28	185-6125	2	Stud (Top)(MDKBD, MDKBE)
8	185-5443	5	Bolt	29	185-6960	1	Gasket
9	185-6078	2	Bolt	30	185-5879	1	Gasket
10	185-5876	1	Washer, Flat	31	185-2390	3	Flange, Water Return
11	185-5875	1	Joint, Pipe	32	185-5880	1	Bolt
12	185-5877	1	Spring	33	185-5870	1	Gasket
13	185-6711	1	Ball	34	185-5843	2	*O'Ring
14	185-5878	1	Seat, Valve	35	185-5869	3	*Pin, Straight
15	185-6197	1	*Pin, Start Spring	36	185-5869	2	*O'Ring (MDKBD, MDKBE)
16	185-5872	1	Bolt	37	185-5126	1	*O'Ring (MDKBF)
17	740-1006	1	Washer, Flat				
18	185-6127	2	Stud (Bottom)(MDKBD, MDKBE)				
19	185-6759	4	Washer, Spring(MDKBD,				

* - Parts Included in Gearcase Assy

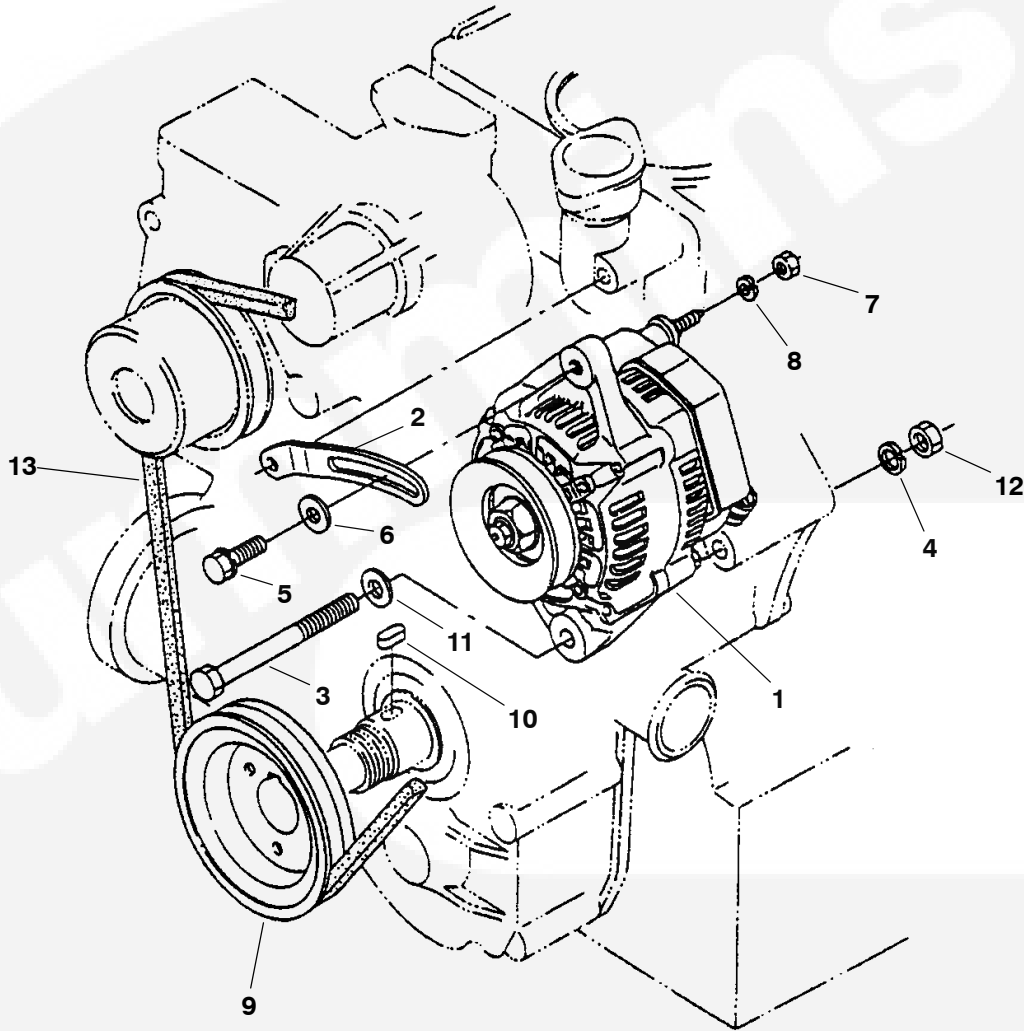
Water Pump



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Pump Assy, Water (Includes Parts Marked *)	9	185-6957	2	Washer, Spring
	185-6006	1	MDKBD, MDKBE	10	185-2367	2	Nut
	185-7061	1	MDKBF	11	185-2389	8	Bolt
2	185-6007	1	*Bearing, Ball	12			Pulley
3	185-7020	1	*Impeller		185-6013	1	MDKBD, MDKBE
4	185-7021	1	*Seal		185-6710	1	MDKBF
5			*Flange	13	185-7062	4	Bolt, Flange
	185-6010	1	MDKBD, MDKBE				
	185-6821	1	MDKBF				
6	185-6011	1	Gasket				
7	185-2404	2	Bolt				
8			Stud				
	185-6012	2	MDKBD, MDKBE				
	185-6012	2	MDKBF				

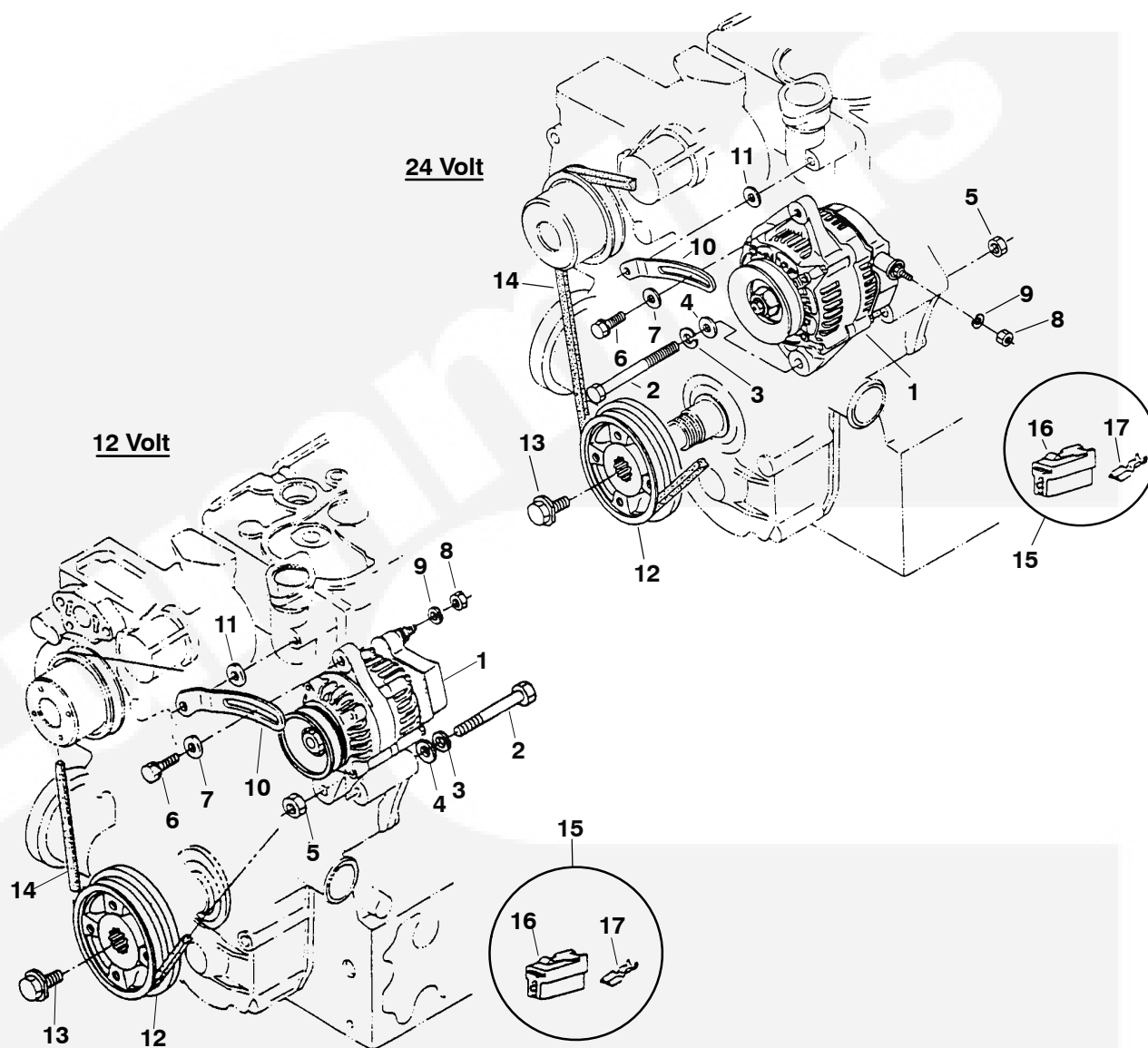
* - Parts Included in Water Pump Assy

**Alternator
MDKBD, MDKBE
(Negative Ground)**



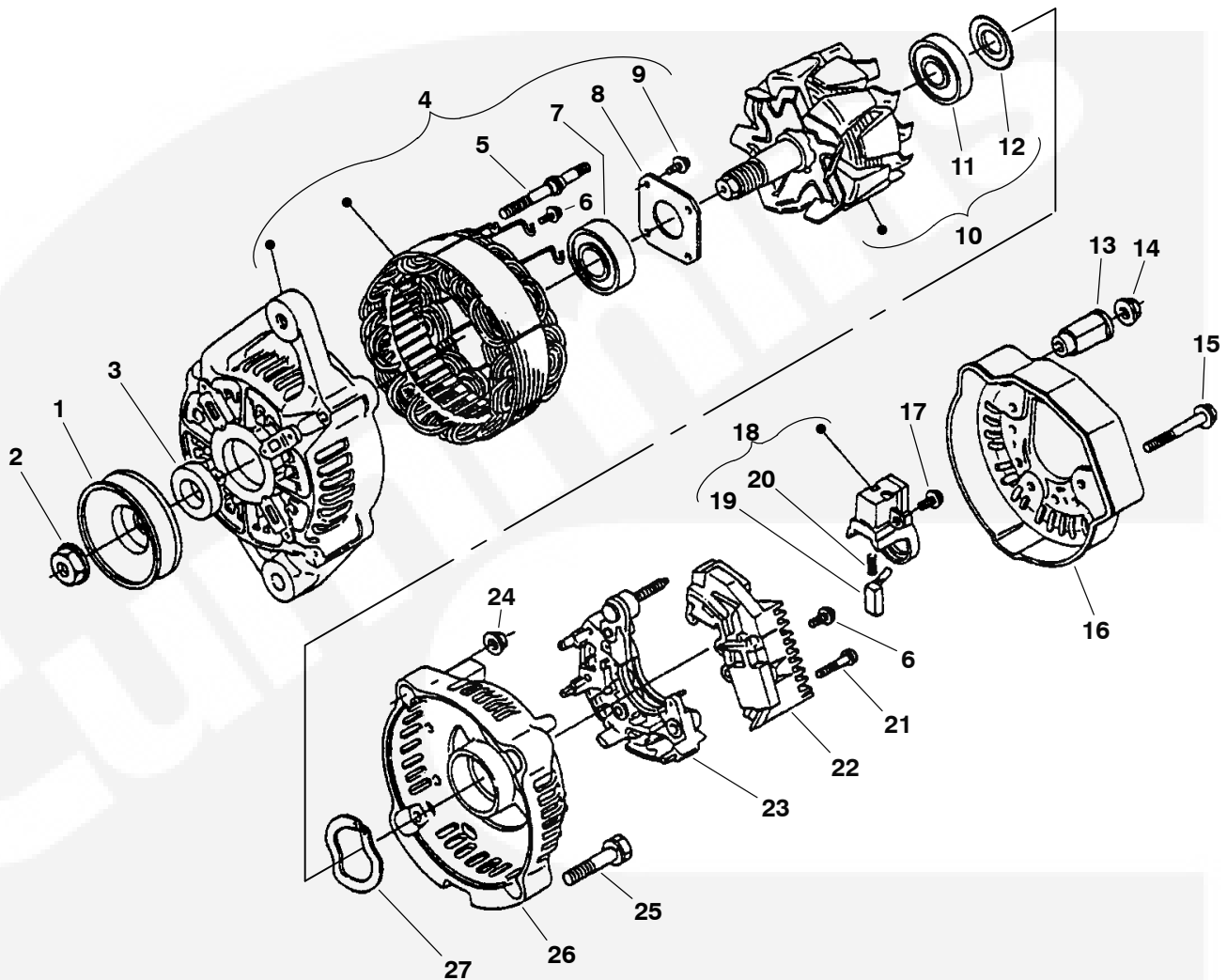
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Alternator, Complete (See Separate Page for Components)	5	185-2564	1	Bolt
	185-5994	1	12V	6	185-6786	1	Washer, Flat
	185-6724	1	24V	7	185-4255	1	Nut
2			Bracket, Adjusting	8	185-2380	1	Washer, Spring
	185-7012	1	12V	9	185-6730	1	Pulley, Fan Drive
	185-6733	1	24V	10	185-5905	1	Key
3			Bolt	11	185-6630	1	Washer, Flat
	185-6734	1	MDKBD	12	185-5445	1	Nut
	185-6183	1	MDKBE	13			Belts
4	185-6785	1	Washer, Spring		185-6184	1	(12V)
					511-0201	1	(24V)

**Alternator
MDKBF
(Negative Ground)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Alternator (See Separate Page for Components)	9	185-6759	1	Washer, Spring
	185-5994	1	12V	10	185-7012	1	Bracket, Adjusting
	185-6724	1	24V		185-6733	1	12V
2	185-7052	1	Bolt		185-6228	1	24V
3	185-6785	1	Washer, Spring	11	185-6228	1	Collar
4	185-6630	1	Washer, Flat	12	185-7053	1	Pulley
5	185-5445	1	Nut	13	185-7054	1	Bolt
6	185-2564	1	Bolt	14	185-7055	1	Belt
7	185-6786	1	Washer, Flat	15	185-5447	1	Coupler Assy
8	185-4255	1	Nut	16	185-6440	1	Connector
				17	185-6347	1	Terminal

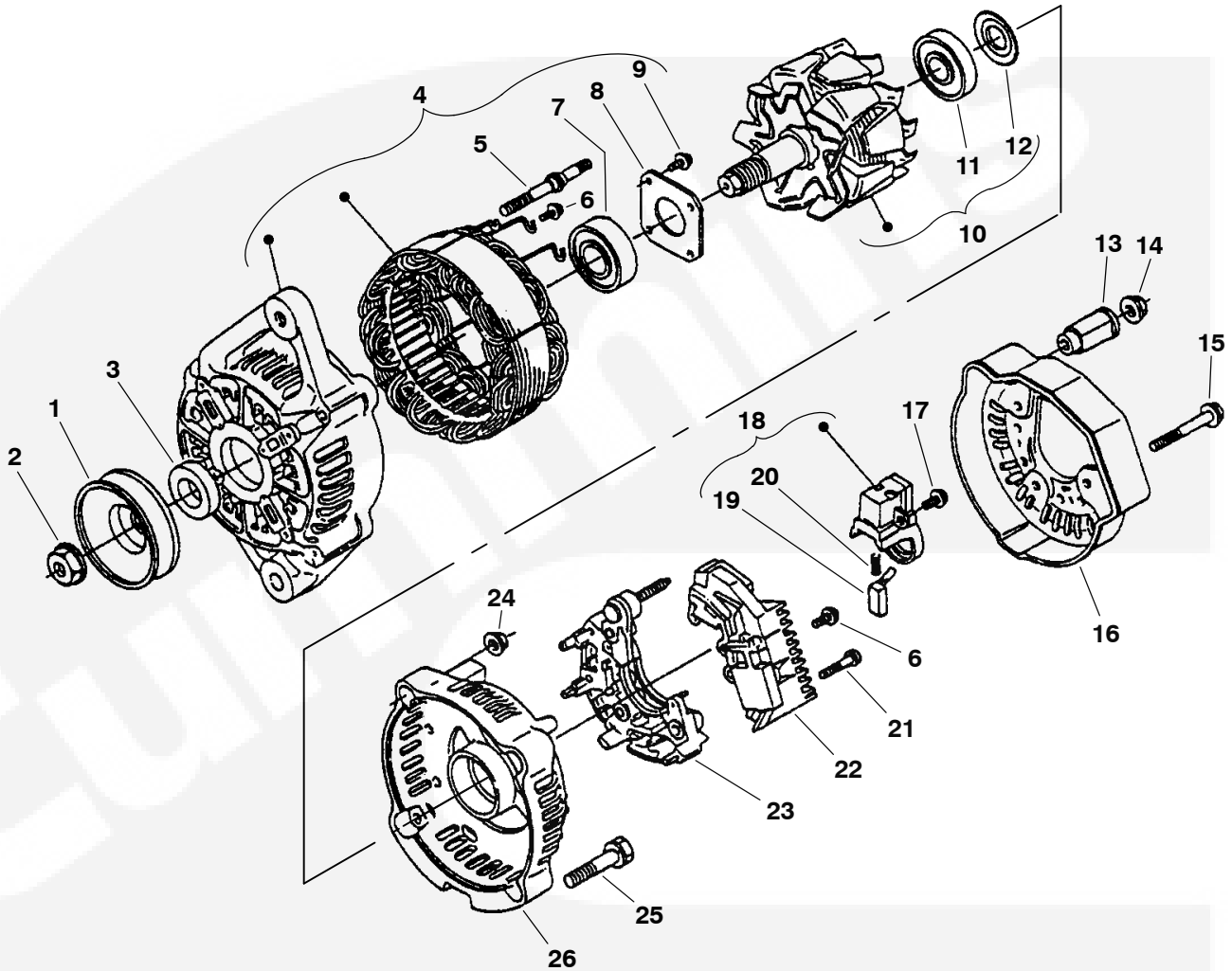
Alternator Components (Negative Ground) (12V)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185-5994	1	Alternator (12V)	16	185-6189	1	Cover, End
1	185-6186	1	Pulley	17	185-5787	1	Screw, Round Head
2	185-5768	1	Nut	18	185-5782	1	Holder Assy, Brush (Includes Brushes and Springs)
3	185-5769	1	Collar	19	185-5783	2	Brush
4	185-5773	1	Frame, Drive End (Includes Parts Marked *)	20	185-5784	2	Spring, Brush
5	185-7056	2	*Bolt, Through	21	185-5785	2	Screw, Round Head
6	185-5786	6	Screw, Round Head	22	185-5791	1	Regulator
7	185-5777	1	*Bearing	23	185-6190	1	Rectifier
8	185-5774	1	*Plate, Retainer	24	185-5789	2	Nut
9	185-5775	4	*Screw, Round Head	25	185-5790	2	Bolt
10	185-5770	1	Rotor (Includes Bearing and Cover)	26	185-6188	1	Frame, End
11	185-5772	1	Bearing	27	185-6187	1	Washer, Thrust
12	185-5771	1	Cover, Bearing				
13	185-6191	1	Insulation, Brush				
14	185-2961	1	Nut				
15	185-5788	3	Bolt				

* - Parts Included in Drive End Frame

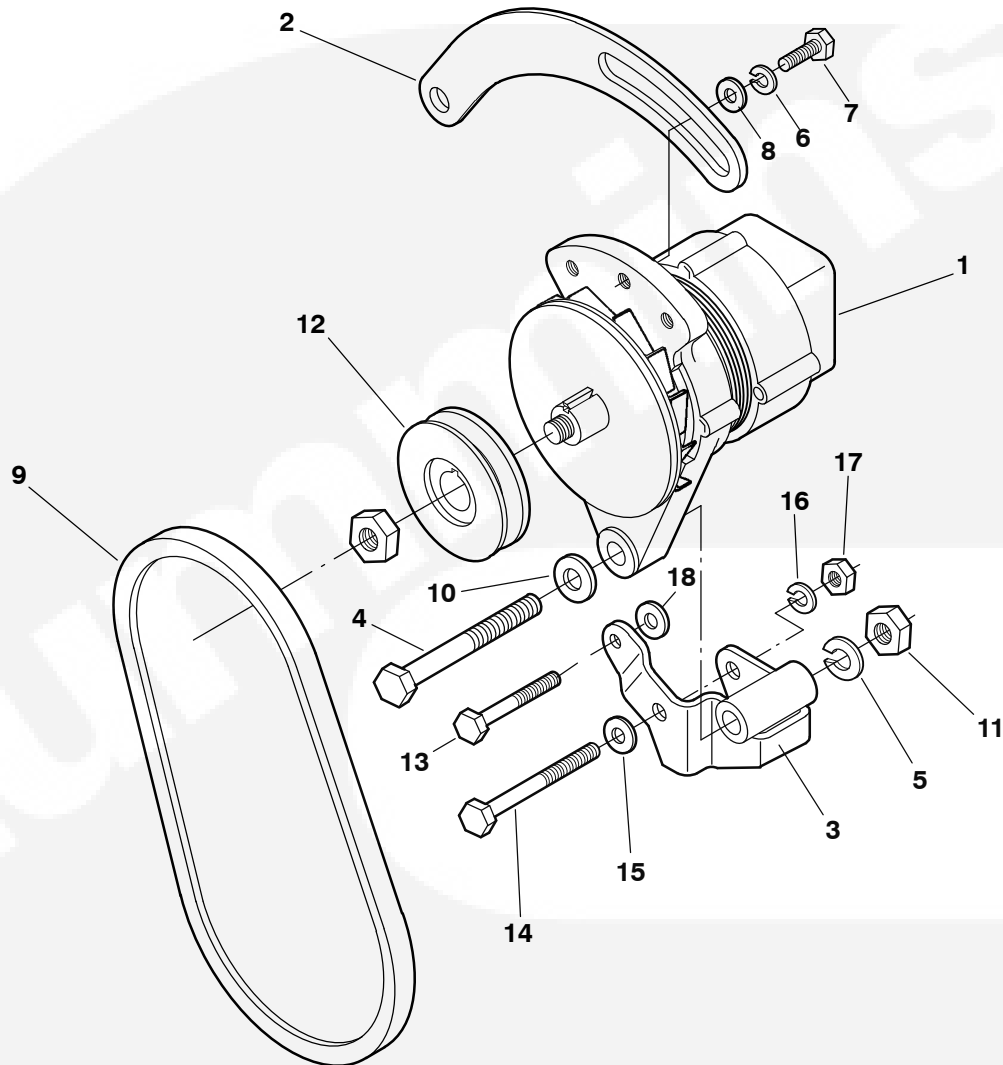
Alternator Components (Negative Ground) (24V)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185-6724	1	Alternator (24V)	15	185-5788	3	Bolt
1	185-6809	1	Pulley	16	185-6815	1	Cover, End
2	185-5768	1	Nut	17	185-5787	1	Screw, Round Head
3	185-5769	1	Collar	18	185-6819	1	Holder Assy, Brush (Includes Brushes and Springs)
4	185-6812	1	Frame, Drive End (Includes Parts Marked *)	19	185-5783	2	Brush
5	185-7056	2	*Bolt, Through	20	185-5784	2	Spring, Brush
6	185-5786	6	Screw, Round Head	21	185-5785	2	Screw, Round Head
7	185-6813	1	*Bearing	22	185-6820	1	Regulator
8	185-5774	1	*Plate, Retainer	23	185-6816	1	Rectifier
9	185-5775	4	*Screw, Round Head	24	185-5789	2	Nut
10	185-6810	1	Rotor (Includes Bearing and Cover)	25	185-5790	2	Bolt
11	185-6811	1	Bearing	26	185-6814	1	Frame, End
12	185-5771	1	Cover, Bearing				
13	185-5781	1	Insulation, Brush				
14	185-2961	1	Nut				

* - Parts Included in Drive End Frame

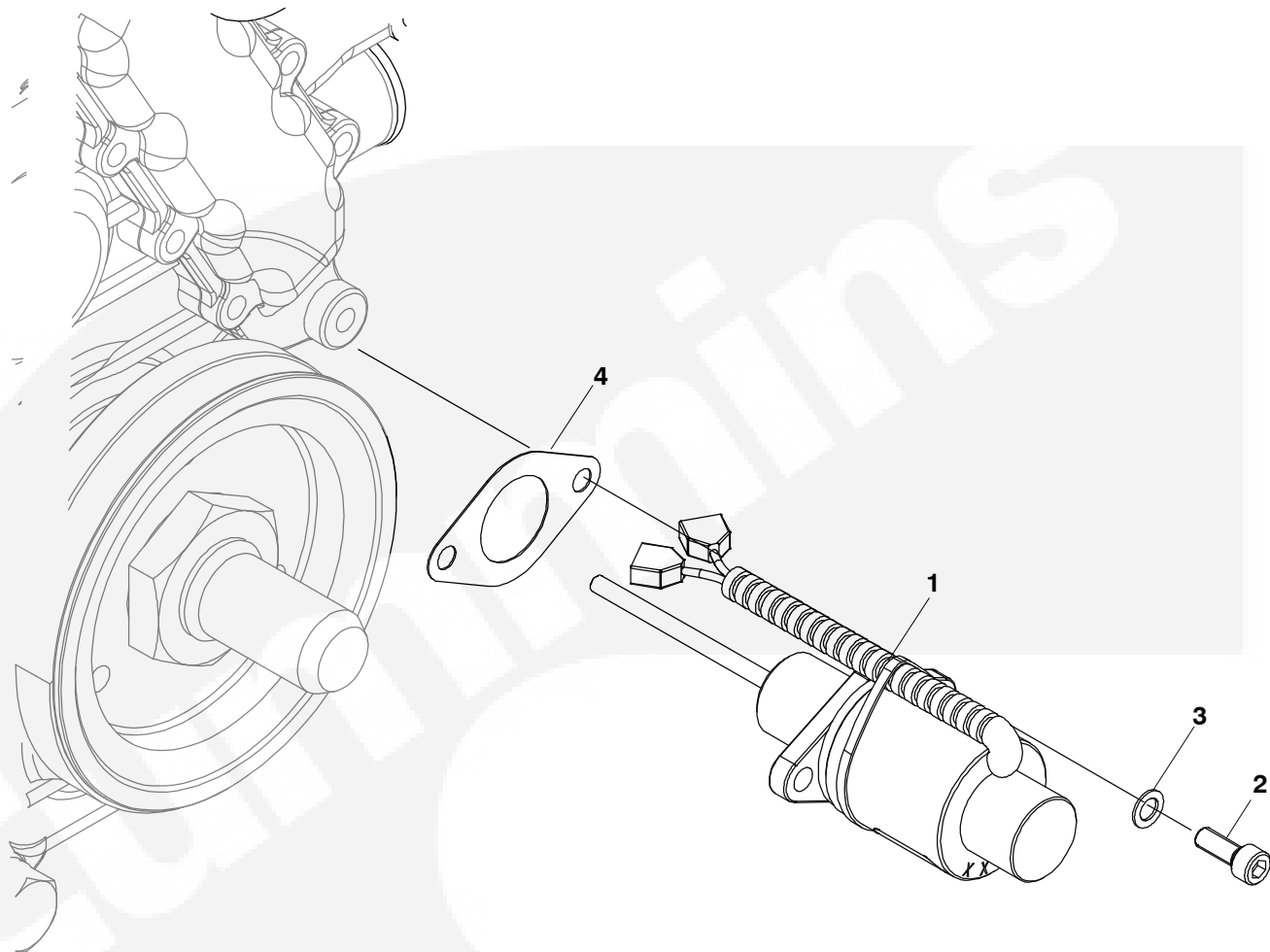
**Alternator
(Isolated Ground)
(12V/24V)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Alternator, Complete (No Components Available)	12	191-2170	1	Pulley, Alternator
	191-2169-02	1	12V	13	800-2069	1	Screw, Hex Head Cap (M8 x 80mm) (MDKBD, MDKBE)
	191-2169-01	1	24V		800-2071		(M8 x 90mm)(MDKBF)
2	191-2168-03	1	Strap, Alternator	14	800-2100	1	Screw, Hex Head Cap (M10 x 100)
3	191-2167-03	1	Bracket, Alternator	15	526-2120	1	Washer, (M10)
4	800-0104	1	Screw, Hex Head Cap (1/2-13 x 4-1/2")	16	850-2010	1	Washer, Lock (M10)
5	850-0060	1	Washer, Lock (1/2")	17	850-2009	1	Nut, Hex (M10)
6	526-0045	1	Washer, Flat (5/16")	18	526-0313	1	Washer (MDKBF)
7	800-0027	1	Screw, Hex Head Cap (5/16-18 x 7/8")				
8	850-0045	1	Washer, Lock (5/16")				
9	511-0211	1	Belt				
10	526-0219	1	Washer, Flat (1/2")				
11	862-0016	1	Nut (1/2-13)				

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

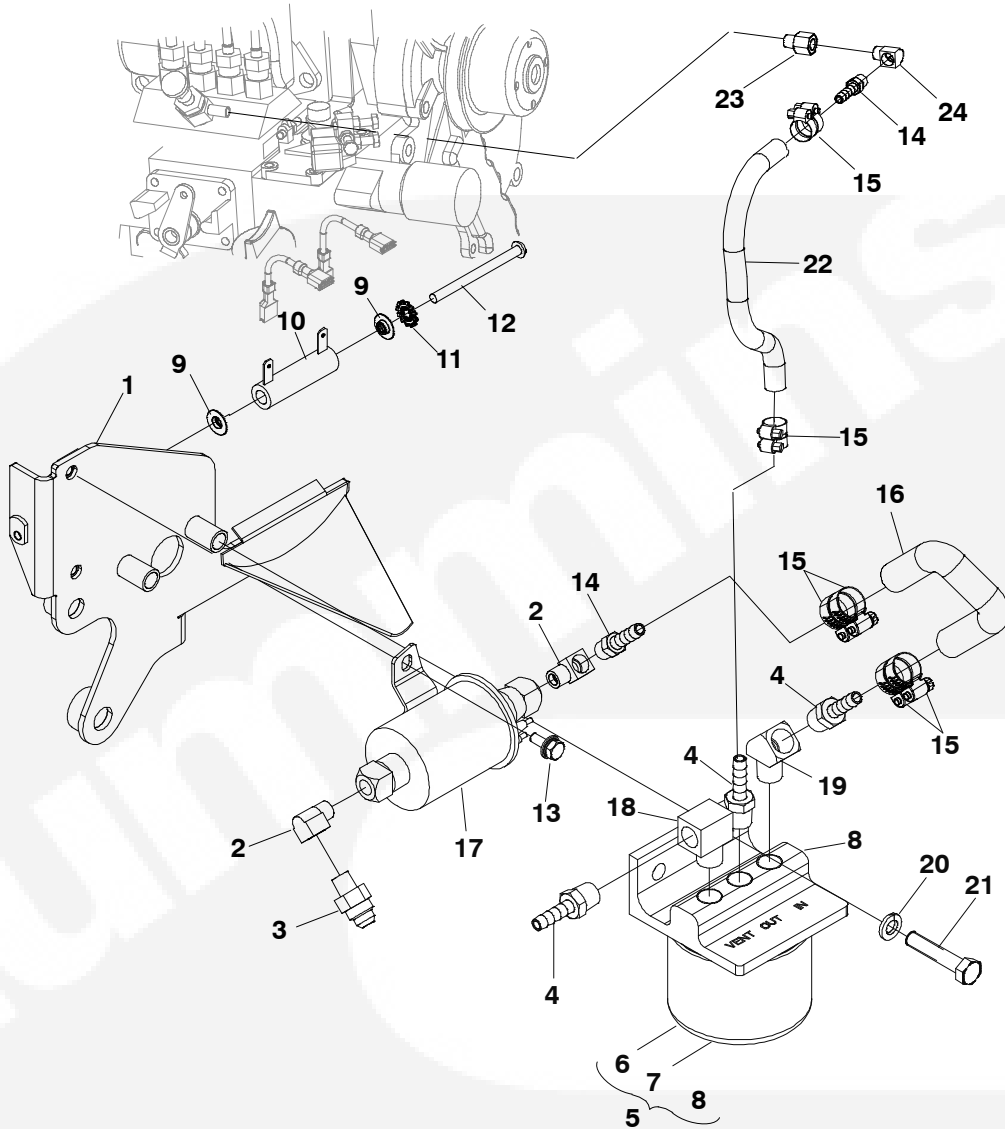
Governor Actuator



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	306-5005-01	1	Actuator, Governor (12V)
	306-5005-02	1	(24V)
2	725-1027	2	Screw, Socket Head Cap (M6 x16mm)
3	526-0063	2	Washer, Copper (1/32")
4	184-0071	1	Gasket, Solenoid Cover

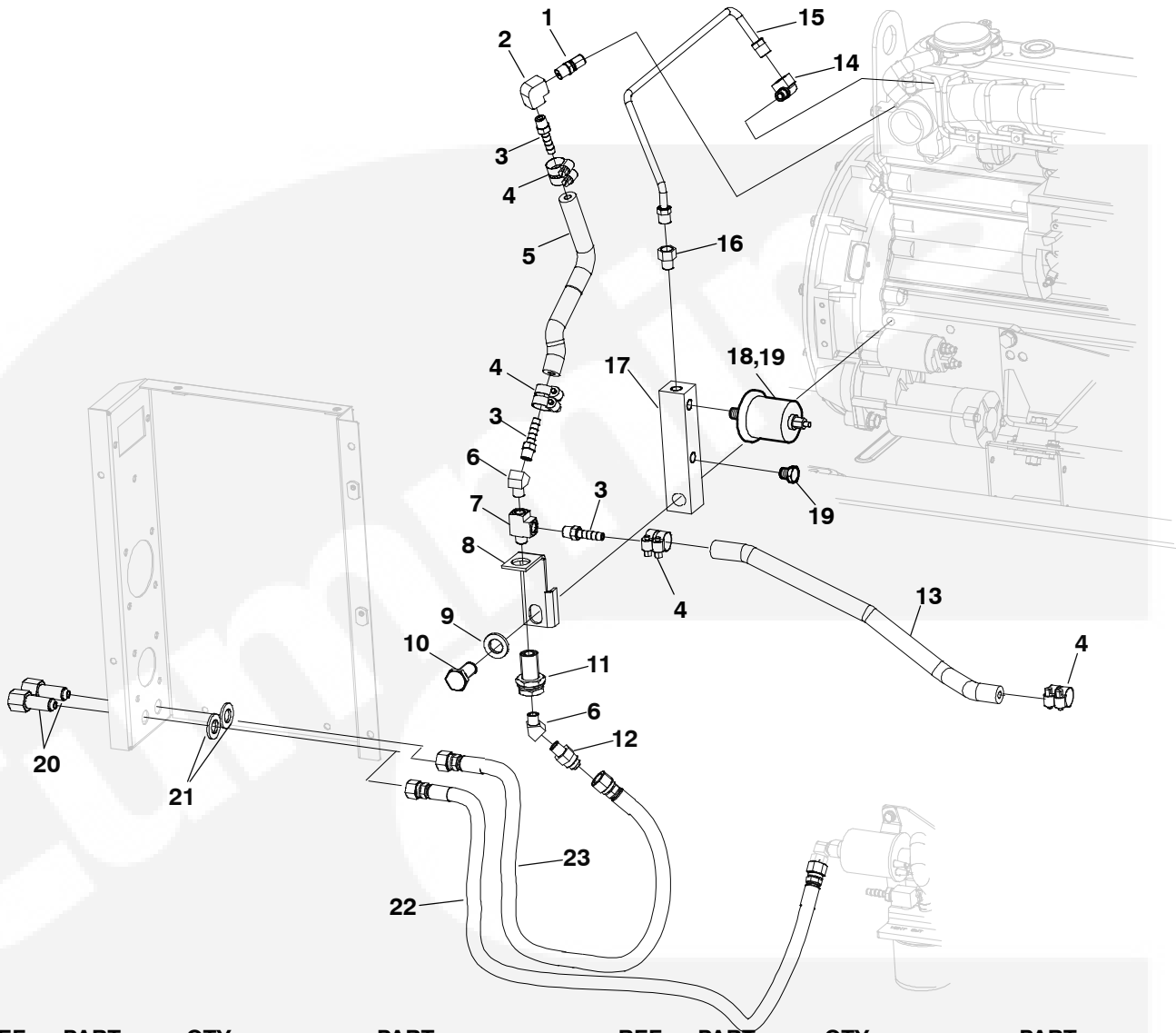


Fuel Pump



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-2703-03	1	Bracket, Fuel Pump	13	821-6002-02	2	Screw, Hex Flange (M6 x 1 x 14)
2	502-0020	3	Elbow, Pipe	14	502-1367-01	3	Connector, Hose
3	505-1490	1	Connector, Male	15	503-2309	4	Clamp, Hose
4	502-1367-02	3	Connector, Hose	16	503-2200-01	1	Hose, Fuel
5	149-2634-01	1	Filter, Fuel (Includes Element, Plug and Filter Base)	17	149-2646	1	Pump, Fuel
6	149-2106	1	Element	18	502-0054	1	Elbow, Street Pipe
7	502-0028	1	Plug, Drain	19	502-0156	1	Elbow, 45° Street
8	149-2635	1	Base, Filter	20	850-2008	2	Washer, Lock Split (M8)
9	304-0796	2	Washer, Centering (24V)	21	800-2061	2	Screw, Hex Head (M8 x 1.25 x 40)
10	350-1238	1	Resistor (3.8 ohms) (24V) (R6)	22	503-2200-02	1	Hose, Fuel (1/4" x 13.26)
11	856-0003	1	Washer, EIT (#10) (24V)	23	502-0175	1	Adapter, Pipe (1/8"NPT)
12	813-0112	1	Screw, Round Head Machine (#10-32 x 2.5") (24V)	24	502-0020-01	1	Elbow, Pipe

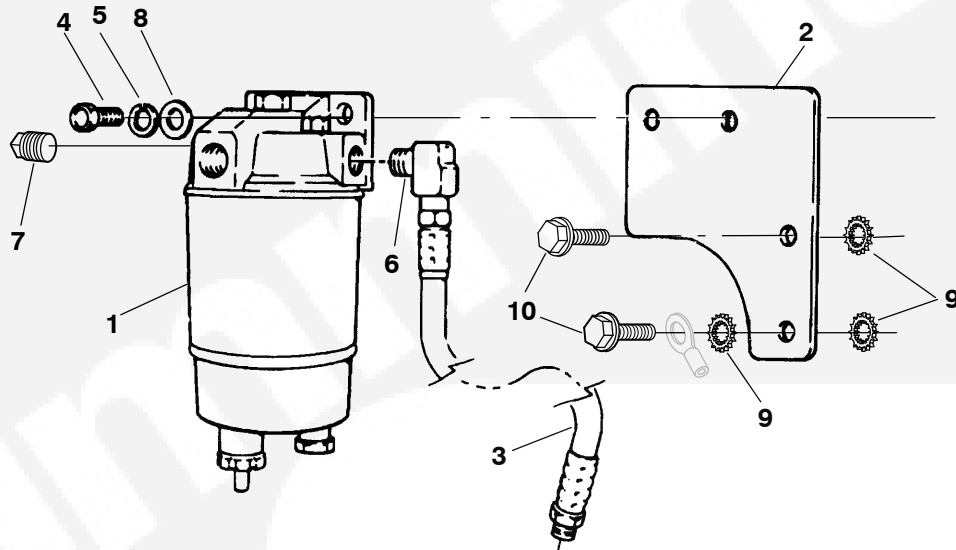
Fuel Return, Oil Sender



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	149-2654	1	Kit, Fuel Adapter (5/16" Hose)	17	120-1319	1	Manifold, Oil Pressure
	149-2655	1	Kit, Fuel Adapter (3/8" Hose)	18			Sender, Oil Pressure
1	502-1245	1	Adapter, Pipe		193-0244	1	Neg Ground with Gauges
2	502-0055	1	Elbow, Inverted Female		193-0430-01	1	Iso Ground with Gauges
3	502-1367-01	3	Connector, Hose	19			Plug, Hex Head Pipe
4	503-2309	4	Clamp, Hose		502-0028	2	without Gauges
5	503-2200-01	1	Hose, Fuel (1/4" x 7.54")		502-0028	1	with Gauges
6	502-0053	2	Elbow, 45° Street	20	505-1489	2	Connector, Female Bulkhead
7	502-1368	1	Tee, Street (1/8 NPT)	21	526-0406	2	Washer, Flat (M14)
8	149-2489-02	1	Support, Fuel Return	22			Line, Fuel
9	526-0399-64	1	Washer, FI (M12)		501-0672-05	1	MDKBD, MDKBE
10	800-3029	1	Screw, Hex Head Cap (M12 x 1.25 x 45mm)		501-0672-06	1	MDKBF
11	502-1244	1	Coupling, Anchor	23			Line, Fuel
12	505-1490	1	Connector, Male		501-0672-02	1	MDKBD, MDKBE
13	503-2200-05	1	Hose, Fuel (1/4" x 20")		501-0672-04	1	MDKBF
14	502-1309	1	Elbow, Inverted Male				
15	122-0813	1	Line, Oil				
16	503-0003	1	Connector, Male IN				

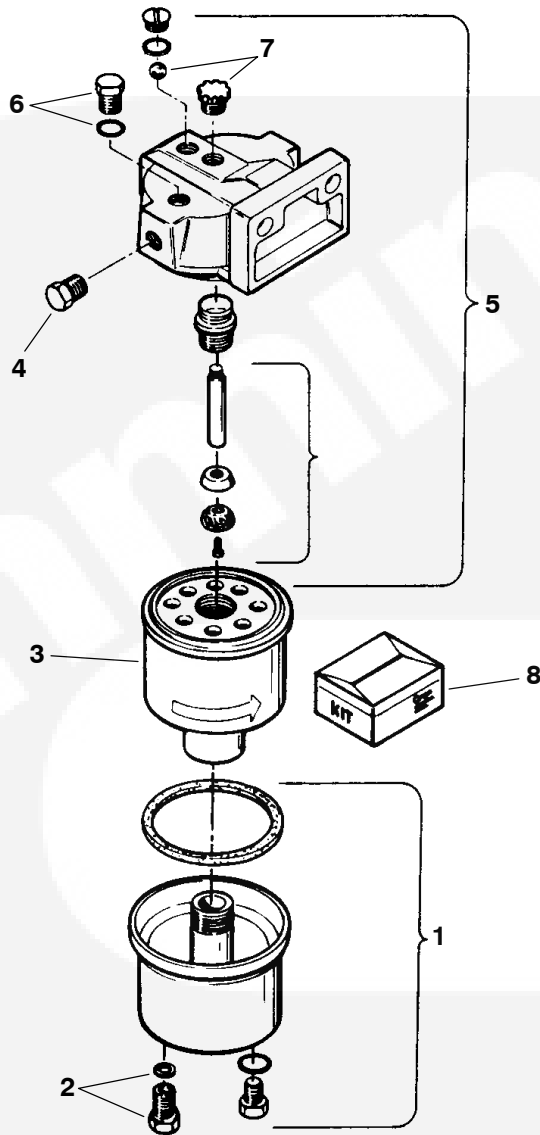
* - Oil Sender ties to E1-2, Iso Ground Harness
(See Isolated Ground 338-4200-01)

Remote Water Separator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	149-2313	1	Kit, Remote Fuel/Water Separator	5	850-2008	2	Washer, Lock (M8)
1	149-1908-05	1	Separator, Fuel/Water (See Separate Page for Components)	6	502-0054	1	Elbow, Street 90° (1/4 NPT)
2	149-2312	1	Bracket, Separator Mounting	7	502-0153	1	Plug, Hex Pipe (1/4 NPT)
3	501-0578	1	Line, Flex Fuel	8	526-2100	2	Washer, Flat (M8)
4	718-1040	2	Screw, Hex Head Cap (M8 x 1.25 x 30mm)	9	856-0012	3	Washer, EIT (7/16")
				10	718-1055	2	Screw, Hex Head Cap (M10 x 1.5 x 30mm)

Water Separator Components

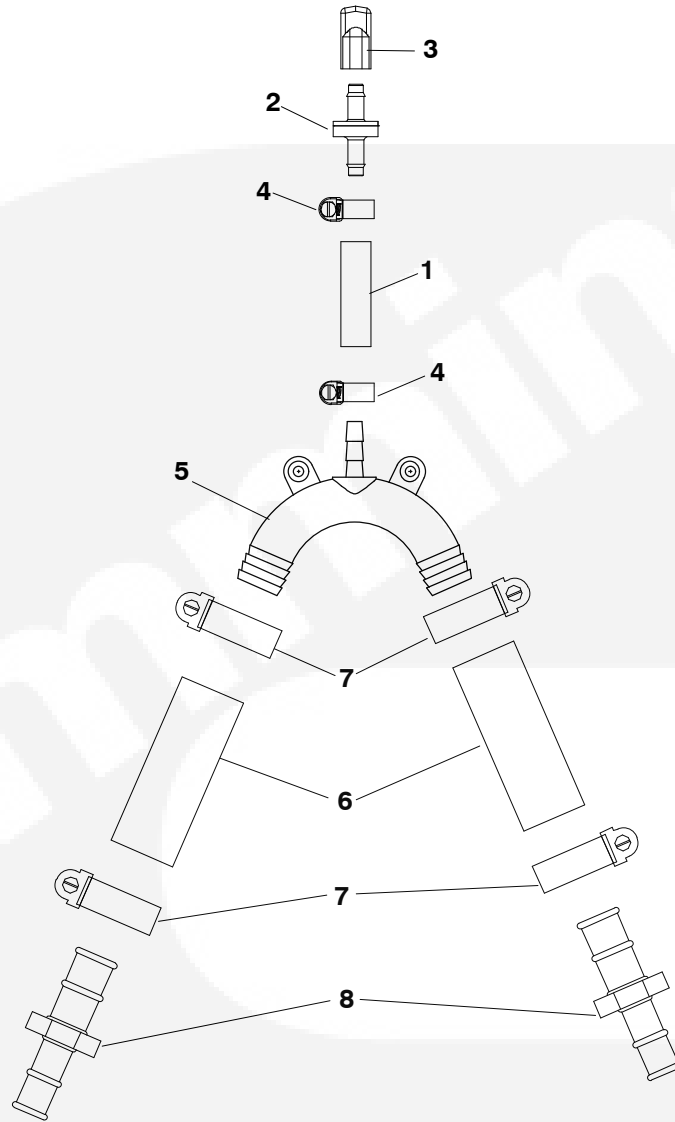


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-1908-05	1	Separator, Water	6	149-1952	1	Plug, Vent (Includes O-Ring)
	149-2046	1	Kit, Metal Bowl Replacement (Includes Plug, O-Rings and Drain Assy)	7	149-2047	1	Pump Assy (Includes Plunger, Retainer, Shaft, Check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

“Blank Page”



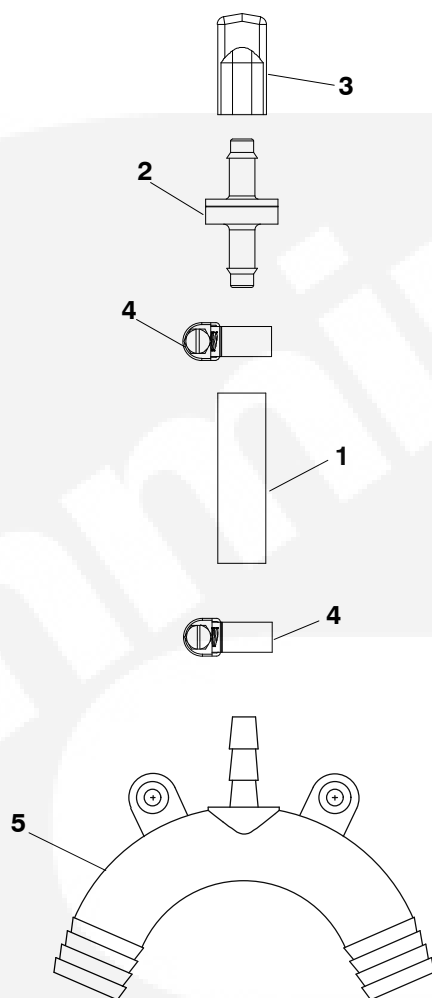
Break Siphon MDKBD, MDKBE



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-0863-01	1	Kit, Siphon Break	7	503-0977	10	Clamp, Hose
1	503-2352	1	Hose, Coolant	8	502-1450	2	Adapter, Hose
2	504-0223	1	Valve, Check	9	508-1102	2	*Grommet, Rubber
3	502-1425-02	1	Cap, Tube				
4	503-2309	2	Clamp, Hose				
5	502-1463	1	Connector, Hose				
6	503-2394	2	Hose, Water				

* - Parts not shown but included in kit.

Break Siphon MDKBF

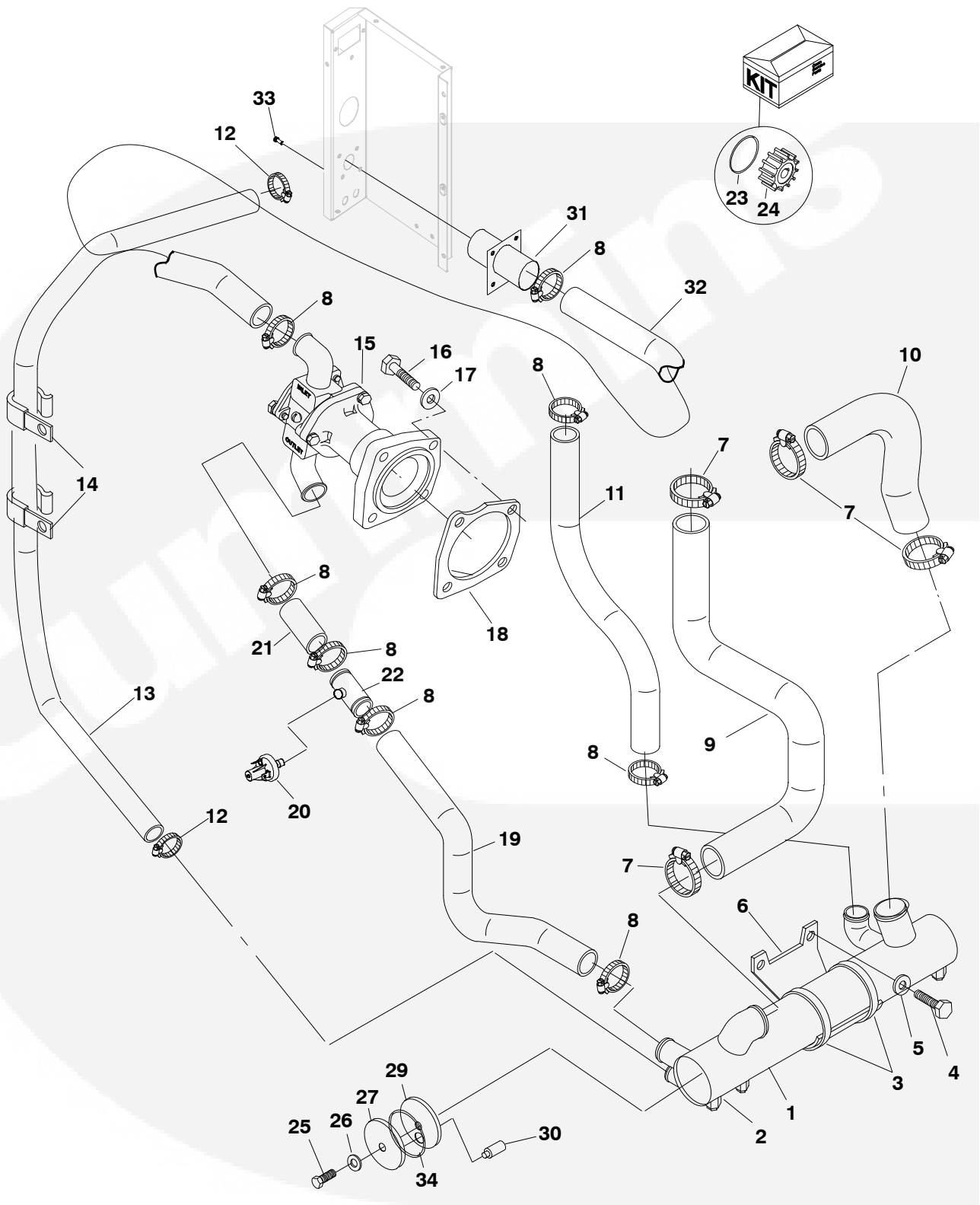


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-0876	1	Kit, Siphon Break
1	503-2352	1	Hose, Coolant
2	504-0223	1	Valve, Check
3	502-1425-02	1	Cap, Tube
4	503-2309	2	Clamp, Hose
5	502-1463	1	Connector, Hose

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

* - Parts not shown but included in kit.

Heat Exchanger

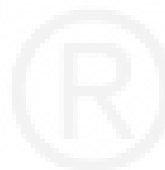


Heat Exchanger

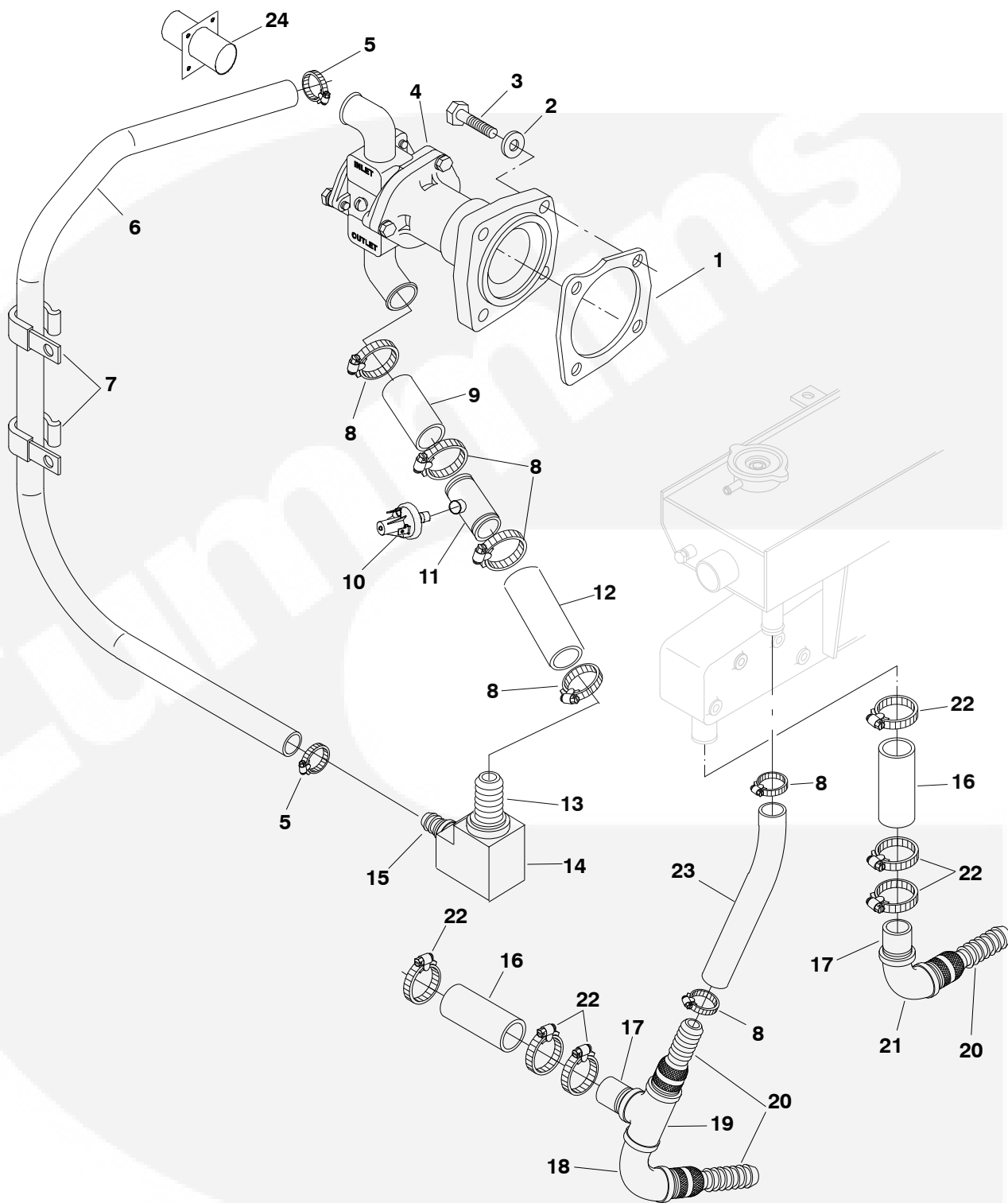
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	132-0349	1	Kit, Minor Service (Includes O'Rings and Impeller)	16	800-2057	4	Screw, Hex Head Cap (M8 x 1.25 x 20)
	130-5012	1	+ Kit, End Cover (Includes Parts Marked *)	17	526-2100	4	Washer, Flat (M8)
	130-4979	1	Kit, Heat Exchanger Zinc Pencil (Includes Parts Marked +) (MDKBD, MDKBE)	18	132-0346	1	Gasket, Water Pump
1			Exchanger, Heat	19			Hose, Water Pump (1")
	130-5006-02	1	MDKBD, MDKBE		503-2347	1	MDKBD, MDKBE
	130-5007-02	1	MDKBF		503-2349	1	MDKBF
2	130-4434	1	Pencil, Zinc (w/Screw)	20	309-0667	1	Switch, Pressure
3			Clamp, Hose	21	503-2350-01	1	Hose, Coolant
	503-1143	2	(3")MDKBD, MDKBE	22	130-5387-01	1	Tube, Low Pressure Switch
	503-1144	2	(3.25")MDKBF	23	132-0293	1	O'Ring
4	800-2057	2	Screw, Hex Head Cap (M10 x 1.25 x 20mm)	24	132-0348	1	Impeller
5	526-2120	2	Washer, Flat (M10)	25	800-0317	1	+ Screw, Hex Head (5/16-18 x 3/4")
6			Bracket, Heat Exchanger	26	850-0165	1	+ Washer, Lock (5/16")
	130-4234-03	1	MDKBD, MDKBE	27			*Cover, Heat Exchanger W/O Zinc Pencil Boss)
	130-4628-03	1	MDKBF		130-4567	1	W/O Zinc Pencil Boss)
7	503-1138	4	Clamp, Hose (1-3/8")	28	509-0351	1	O'Ring
8	503-1137	8	Clamp, Hose (1")	29			*Gasket, Cover
9	503-1977	1	Hose, Exhaust Manifold (1-3/8") (Includes Sleeving)		130-4566	1	W/O Zinc Pencil Hole
10			Hose, Engine Coolant (1-3/8")		130-4960	1	W/Zinc Pencil Hole
	503-1896	1	MDKBD, MDKBE	30	130-4961	1	*Pencil, Zinc (w/o Screw)
	503-1998	1	MDKBF	31	405-7211	1	Connector, Bulkhead
11	503-0501	1	Hose, Coolant Tank Lower (1" x 22")	32			Hose, Coolant
12	503-0977	2	Clamp, Hose		503-2350-02	1	1333.5mm Length MDKBD, MDKBE
13			Hose, Mixer		503-2350-04	1	1765.3mm Length MDKBF
	503-2122	1	(3/4 x 43") MDKBD, MDKBE	33	821-6006-01	4	Screw, Hex Head Sems Stainless (M6 x 1 x 16mm)
	503-2027	1	(5/8 x 43") MDKBF	34	509-0351	1	O'Ring
14	332-2634	2	Clamp, "J"				
15	132-0413	1	Pump, Raw Water (See Separate Page for Components)				

+ - Parts Included in Heat Exchanger Zinc Pencil Kit.

* - Parts Included in End Cover Kit



Keel Cooling (Wet Exhaust)

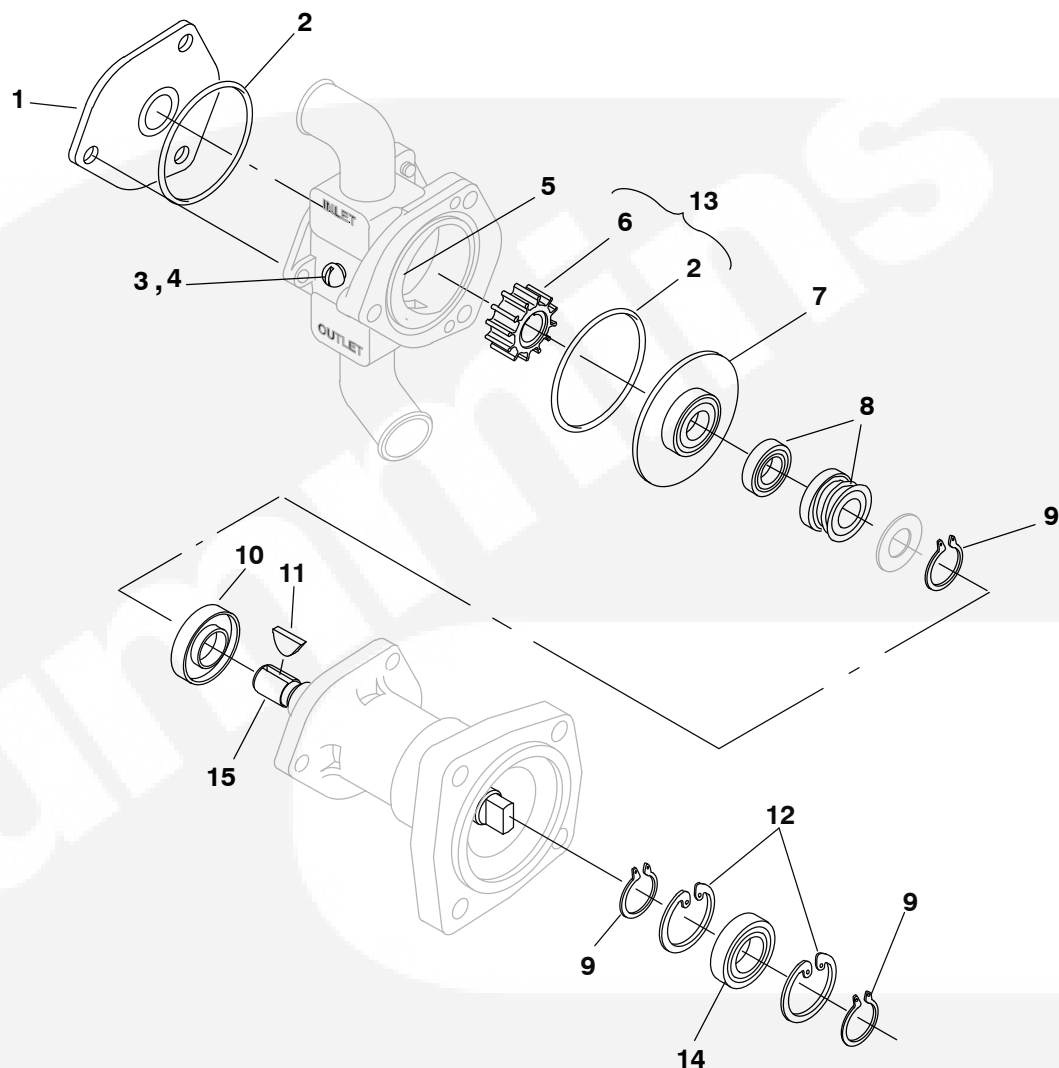


Keel Cooling (Wet Exhaust)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	155-3148-02	1	Kit, Keel Cooling (Includes Parts Marked *)	11	130-5387-01	1	Tube, Low Pressure Switch
	132-0350	1	Kit, Water Pump Service (Includes Impeller and O'Ring, Wear Plate, Cover, Lip Seal, Cam, Seal Washer, Cam Screw, and Key) (MDKBF)	12	503-2025-02	1	Hose , Lower Coolant (Cut to Fit)
1	132-0346	1	Gasket, Water Pump	13	502-1295-02	1	*Adapter (3/4" NPT x 1" Barb)
2	526-2100	4	Washer, Flat (M8)	14	502-1298-02	1	*Elbow, 90°
3	800-2057	4	Screw, Hex Head Cap (M8 x 20mm)	15			*Adapter (3/4"NPT)
4	132-0413	1	Pump, Raw Water		502-1295-01	1	5/8" Barb (MDKBD, MDKBE)
5	503-0977	2	Clamp, Hose		502-1295-03	1	3/4" Barb (MDKBF)
6			Hose	16	503-2023	2	*Hose, Coolant (1-3/8" x 4")
	503-2122	1	MDKBD, MDKBE (3/4" x 36")	17	505-0446-01	2	*Nipple, Half
	503-1013	1	MDKBF	18	505-0003	1	*Elbow
7	332-2634	2	Clamp, "J"	19	505-0304	1	*Tee
8	503-1137	4	*Clamp, Hose (1")	20	505-1509	3	*Barb, Hose
9	503-2350-01	1	*Hose, Outlet (1" x 3")	21	505-0041	1	*Elbow
10	309-0667	1	Switch, Pressure	22	503-1138	6	*Clamp, Hose (1-3/8")
				23	503-2025-01	1	Hose, Coolant (1" x 10")
				24	405-7211	1	Connector, Bulkhead

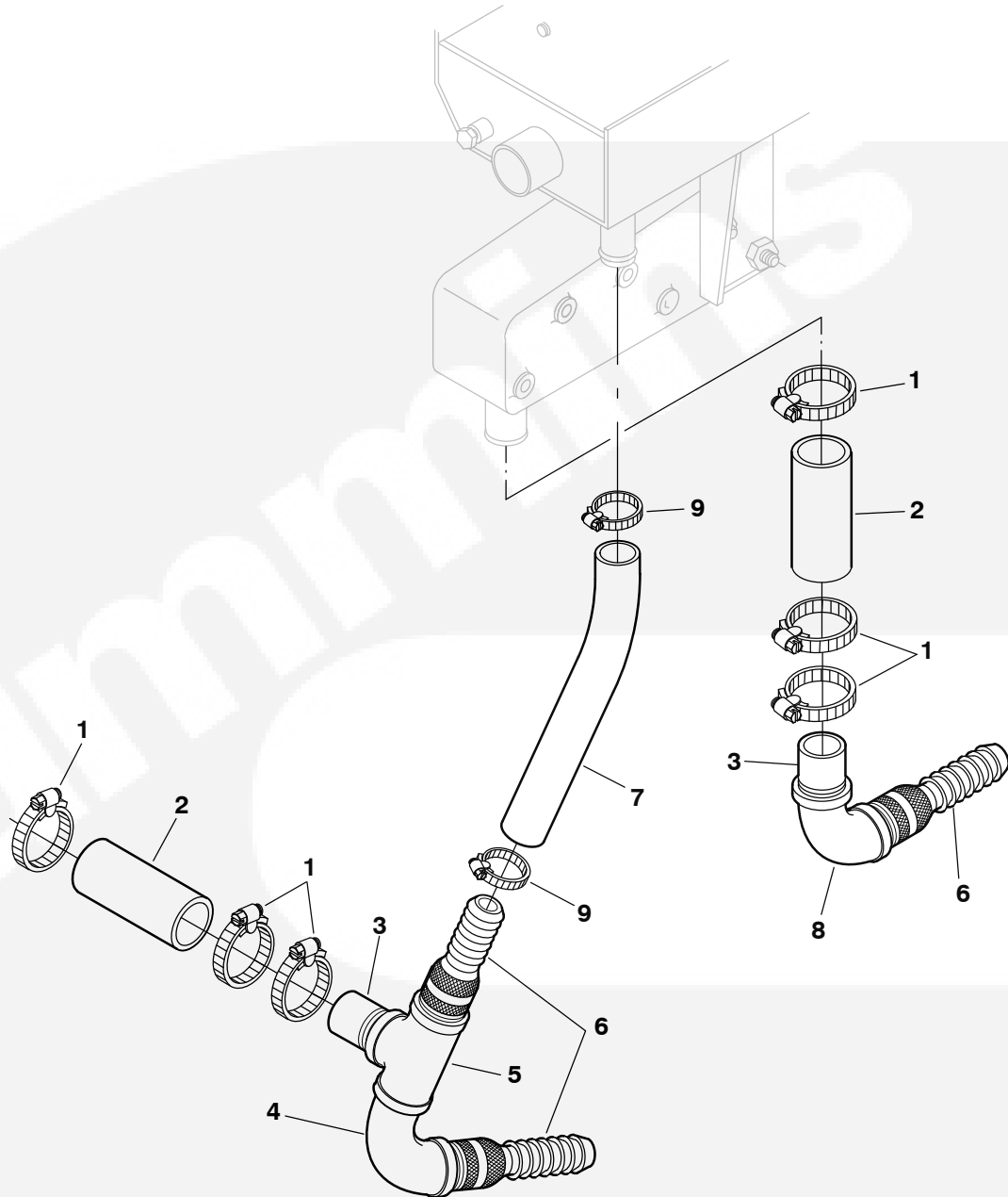
* – Parts Included in Keel Cooling Kit.

Water Pump Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	132-0414	1	Kit, Major Service	9	132-0393	3	Ring, Retaining
1	132-0386	1	Cover	10	132-0394	1	Seal, Lip
2	132-0293	2	O'Ring	11	132-0391	1	Key
3	132-0390	1	Screw, Cam	12	132-0392	2	Ring, Retaining
4	132-0389	1	Washer, Seal	13	132-0349	1	Kit, Minor Water Pump Service (Includes Impeller and O'Ring)
5	132-0388	1	Cam	14	132-0417	1	Bearing
6	132-0348	1	Impeller	15	132-0416	1	Shaft
7	132-0385	1	Plate, Wear				
8	132-0387	1	Seal, Seat Assy				

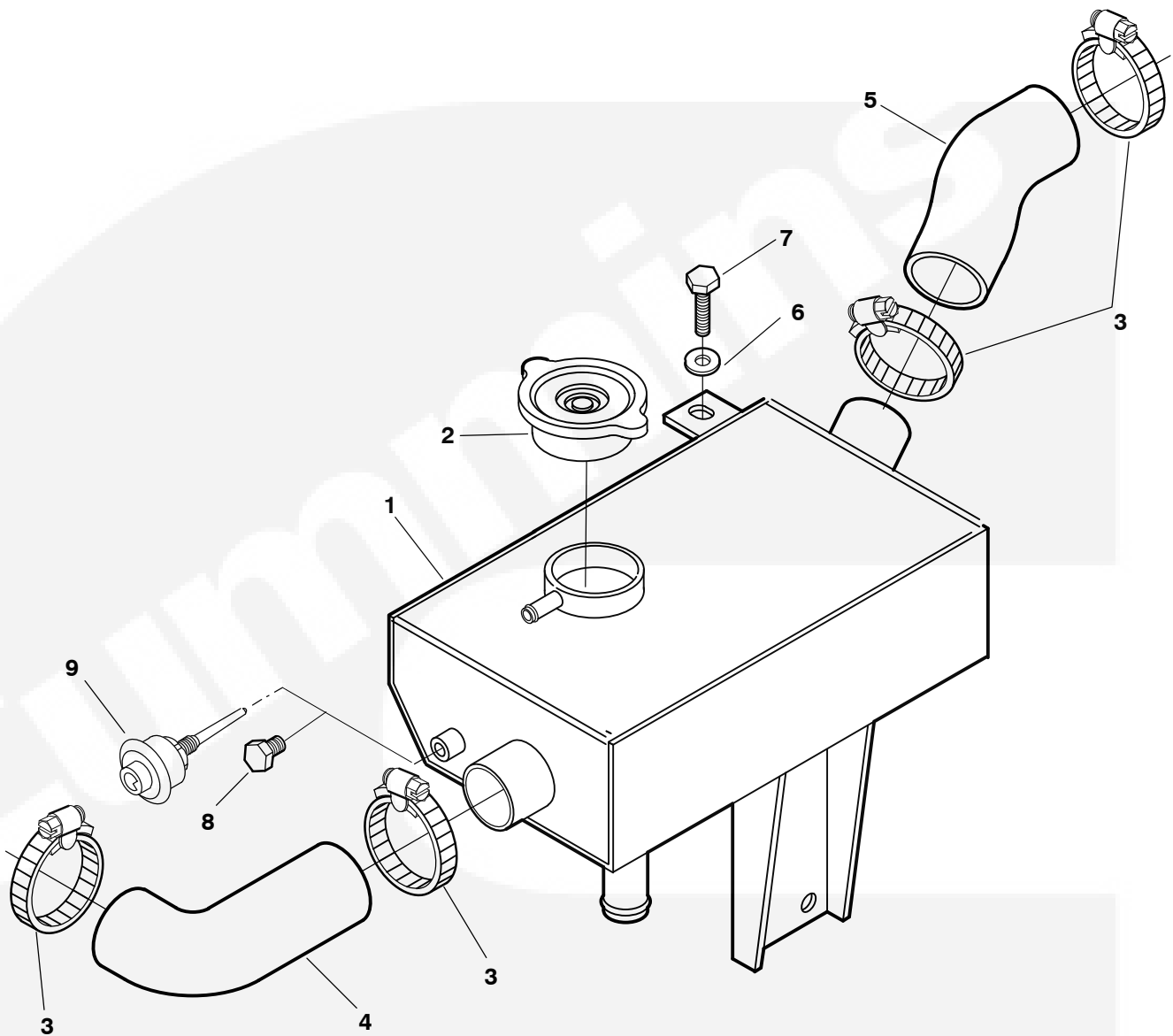
Keel Cooling System (Dry Exhaust)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	155-3284	1	Kit, Exhaust	7	503-2025-01	1	*Hose, Coolant (1" x 10")
	155-3087	1	Kit, Keel Cooling (Includes Parts Marked *)	8	505-0041	1	*Elbow
1	503-1138	6	Clamp, Hose (1-3/8")	9	503-1137	2	Clamp, Hose (1")
2	503-2023	2	*Hose, Coolant (1-3/8" x 4")				
3	505-0446-01	2	*Nipple, Half				
4	505-0003	1	*Elbow				
5	505-0304	1	Tee				
6	505-1509	3	*Barb, Hose				

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

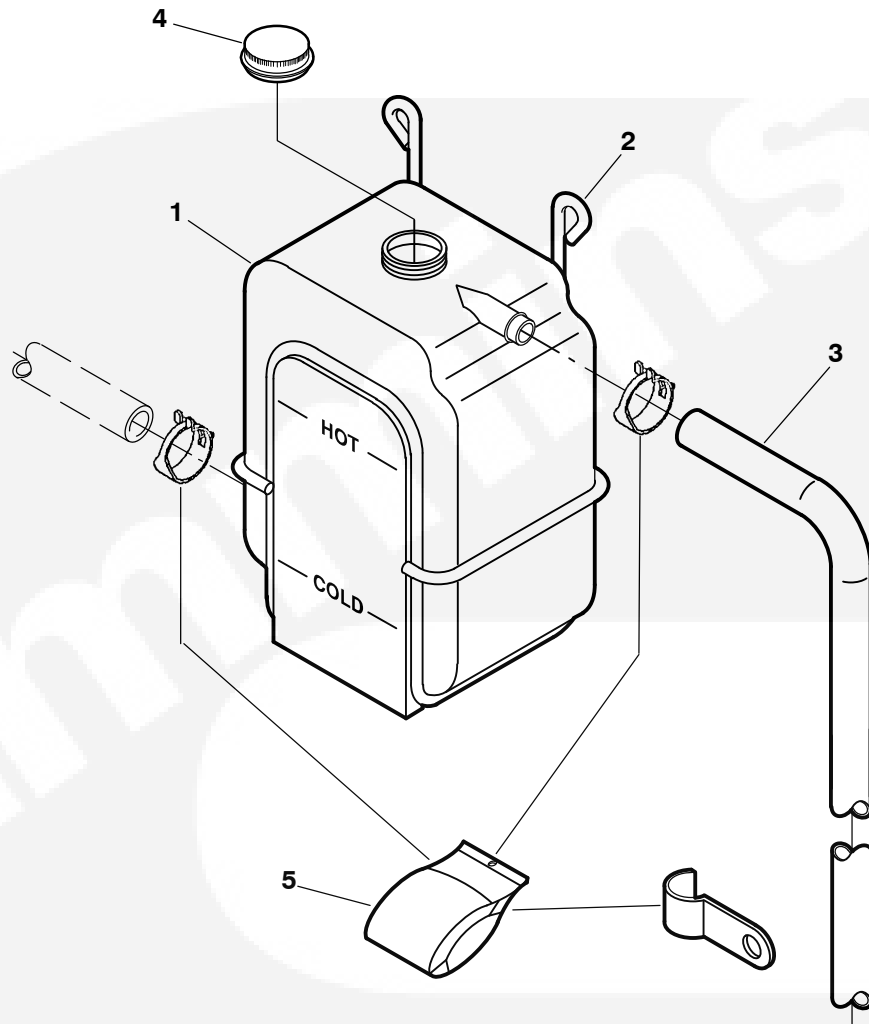
Coolant Tank



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4881-02	1	Tank, Coolant
2	130-3721	1	Cap, Tank
3	503-1138	4	Clamp, Hose (1-3/8")
4	503-1898	1	Hose, Upper Elbow MDKBD, MDKBE
	503-1999	1	MDKBF
5	503-1899	1	Hose, Upper "S" (1-3/8")
6	526-2100	1	Washer, Flat (M8)

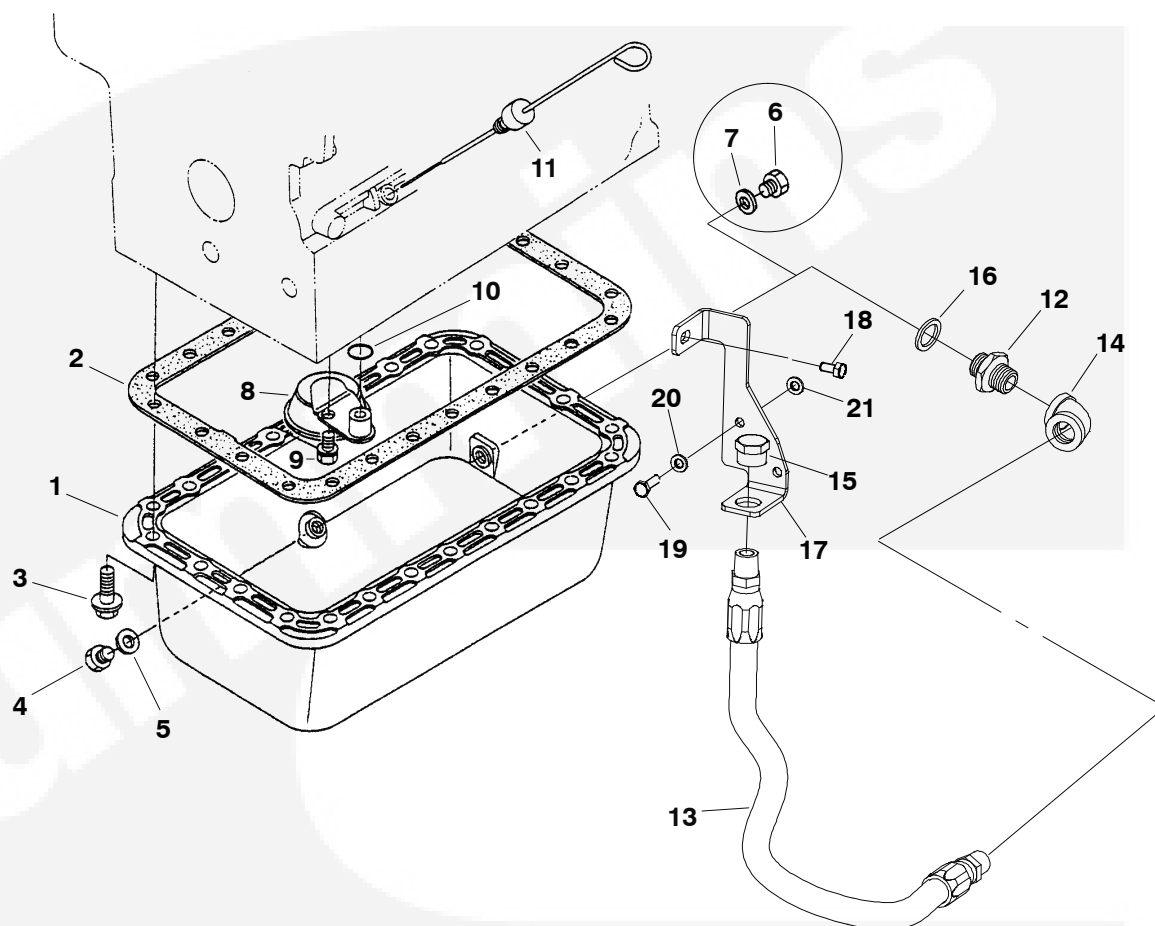
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	800-2054	1	Screw, Hex Head Cap (M8 x 1.25 x 14mm)
8	502-0153	1	Plug, Hex Pipe (1/4)
9	193-0468	1	Sender, Low Coolant

Coolant Recovery



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

Oil Pan MDKBD, MDKBE

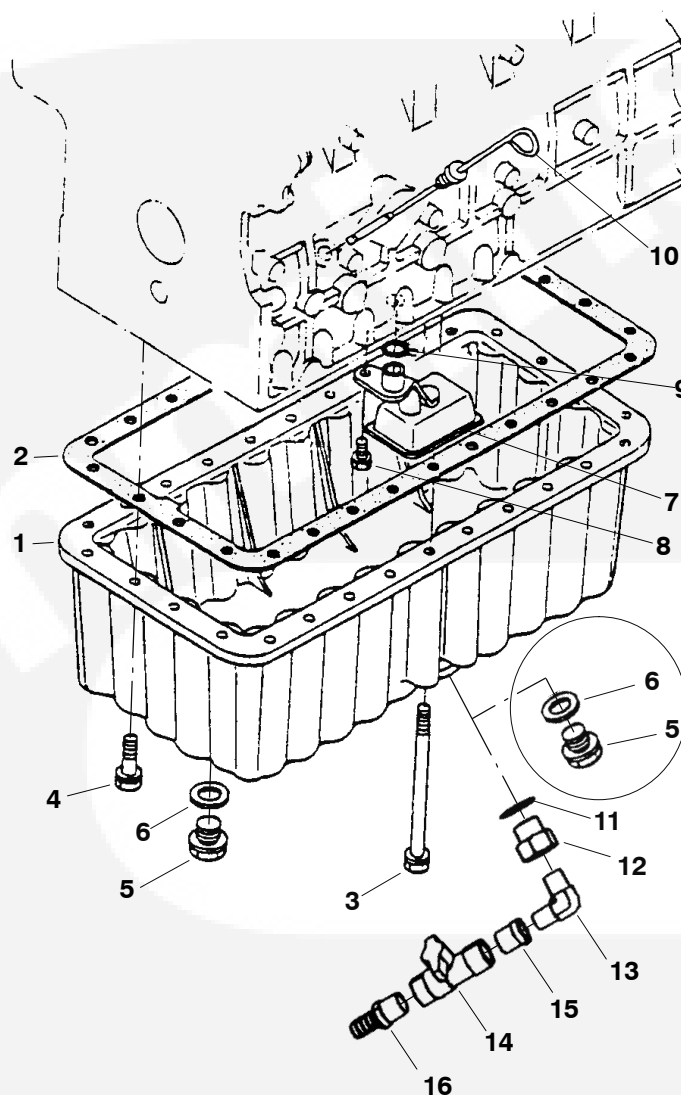


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6727	1	Pan, Oil
2	185-5854	1	Gasket
3	185-5855	24	Bolt, Flange
4	185-2096	1	Plug
5	185-2343	1	Gasket
6	185-6760	1	*Bolt
7	185-6761	1	*Gasket
8	185-6728	1	Tube, Oil Pickup
9	185-2563	1	Bolt
10	185-3078	1	O'Ring
11	185-6122	1	Indicator, Oil Level
12	102-1449-01	1	Adapter, Oil Drain
13	501-0624	1	Line, Flex Oil (24")
14	502-0263	1	Elbow, Pipe 90°

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
15	502-1123	1	Cap, Pipe
16	526-0413	1	Washer, Oil Drain (.625ID x .875OD x .075Thk)
17	120-1337-02	1	Bracket, Oil Drain
18	821-6002-02	1	Screw, Hex Flanged (M6 x 1 x 12mm)
19	800-2034	2	Screw, Hex Head (M6 x 1 x 20mm)
20	850-2006	2	Washer, Lock Split (M6)
21	526-2081	2	Washer, Flat (M6)

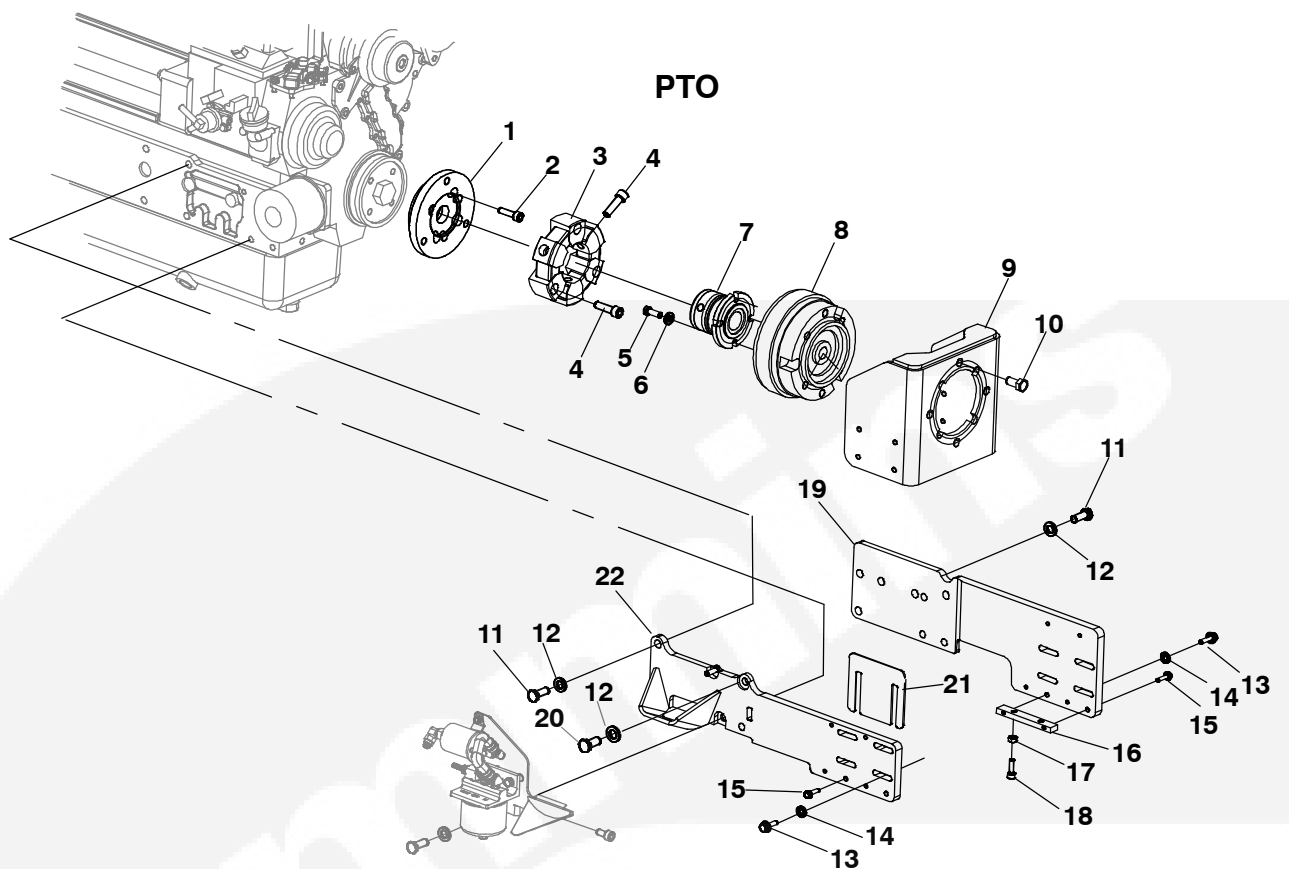
* Bolt and Gasket Removed with Installation of Oil Drain.

Oil Pan MDKBF



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6195	1	Pan, Oil	10	185-6061	1	Indicator, Oil Level
2	185-6044	1	Gasket	11	526-0329	1	Washer, Oil Drain (7/8")
3	185-6045	2	Bolt	12	102-1448-02	1	Adapter, Oil Drain
4	185-5476	26	Bolt	13	502-1273	1	Elbow, Pipe 90°
5	185-6929	3	*Plug (Removed with Installation of Oil Drain)	14	504-0011	1	Valve, Shutoff
6	185-5495	3	*Gasket (Removed with Installation of Oil Drain)	15	502-0819	1	Bushing, Reducer
7	185-6047	1	Tube, Oil Pickup	16	502-1006	1	Fitting, Hose Barb
8	185-6956	1	Bolt				
9	509-0254	1	O'Ring				

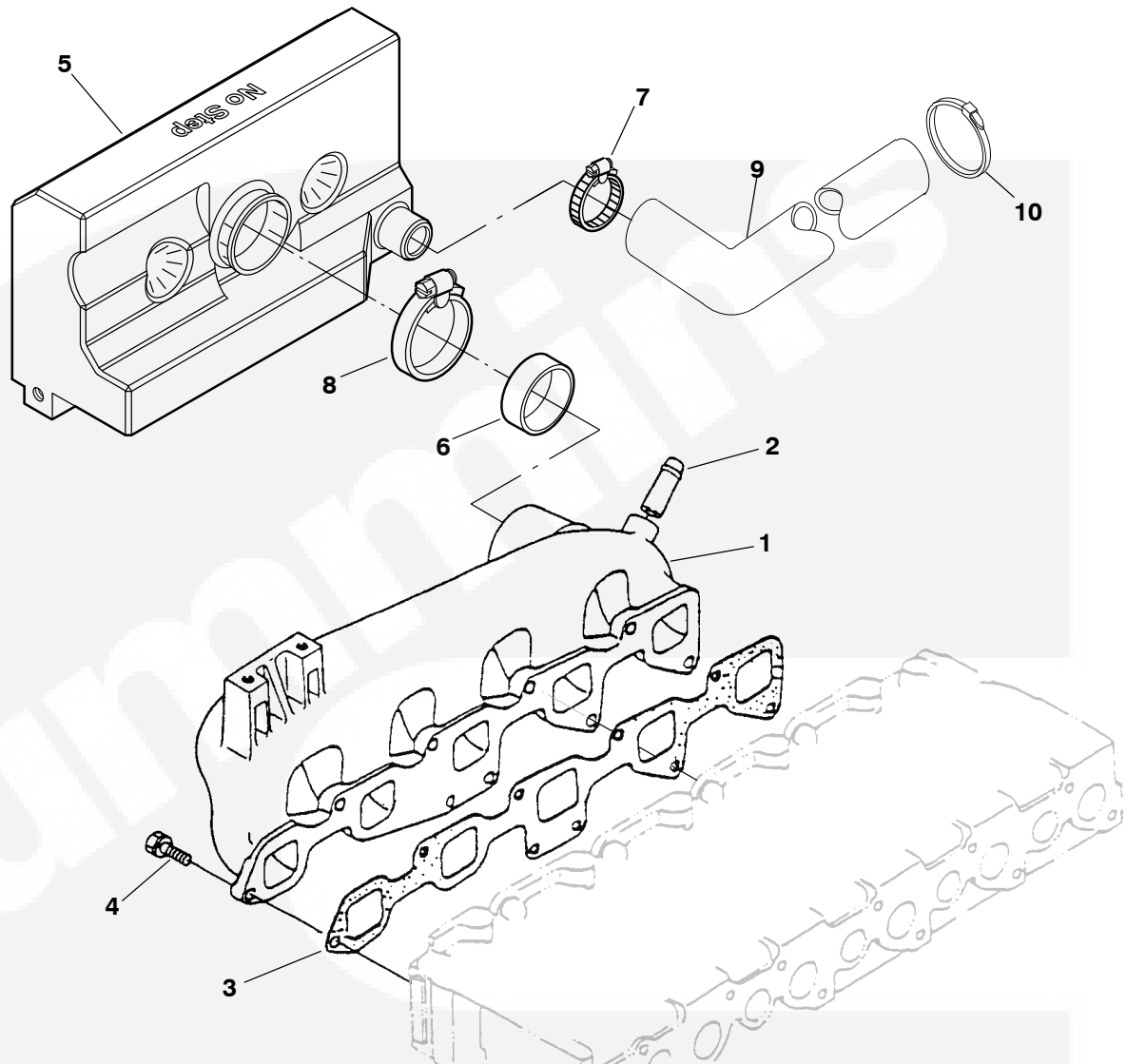
* Circled Bolt and Gasket Removed with Installation of Oil Drain.



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Kit, PTO (Includes Parts Marked *)	10	800-0090	2	*Screw, Hex Head Cap (1/2-13 x 1.00")
			MDKBD, MDKBE	11	800-3032	9	*Screw, Hex Head Cap
	190-0776-01	1	12V	12	526-0399-64	10	*Washer, Flat (M12)
	190-0776-02	1	24V	13	800-3017-21	8	*Screw, Hex Head (M8 x 1.25 x 30mm))
			MDKBF	14	526-0451	8	*Washer, Flat Stainless (M8)
	190-0776-03	1	12V	15	821-2035	4	*Screw, Locking Flange (M6 x 1 x 25mm)
	190-0776-04	1	24V	16	190-0766-03	2	*Bracket, Mounting Pad
	190-0777	1	Kit, PTO Belt (Includes Tool Spacer and Belt)	17	862-0026-55	4	*Nut, Hex (M8)
1			*Adapter, Coupling	18	815-0916	4	*Screw, Socket Head (M8 x 1.25 x 25mm)
	190-0763-02	1	MDKBD, MDKBE	19	190-0792-03	1	*Bracket, PTO (Left)
	190-0764-02	1	MDKBF	20	800-3033	1	*Screw, Hex Head Cap (M12 x 1.25 x 25mm)
2	815-0904-03	4	*Screw, Socket Head Cap (M10 x 1.25 x 35mm)	21			*Shim, PTO
3	190-0768	1	*Coupling, Flex		190-0771-02 AR		.12 GA
4	725-1103	6	*Screw, Socket Head Cap (M12 x 1.75 x 40mm)		190-0771-04 AR		.14 GA
5	801-1050	4	*Screw, Hex Head Cap (3/8-24 x 1")		190-0771-06 AR		.20 GA
6	526-0174	4	*Washer, Flat	22	190-0770-03	1	*Bracket, PTO (Right)
7	190-0767-02	1	*Adapter, Coupling				
8			*Clutch				
	190-0729-01	1	12V				
	190-0729-02	1	24V				
9	190-0769-03	1	*Bracket, PTO Clutch				

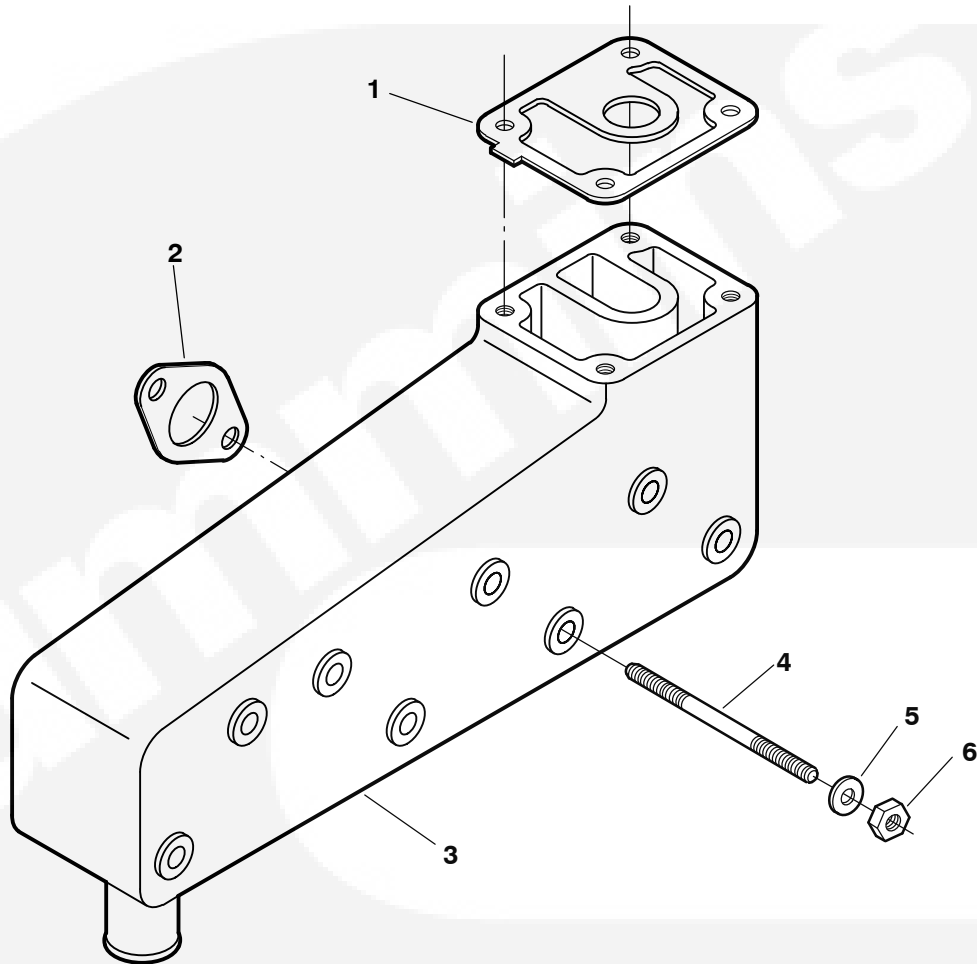
* - Parts Included in PTO Kit. (Also Includes Fuel Pump Mounting Hardware Found on Fuel Pump Page)

Intake Manifold



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Manifold Assy, Intake	6	140-3048	1	Sleeve, Air Intake
	185-6715	1	MDKBD, MDKBE	7			*Clamp, Hose
	185-6803	1	MDKBF		503-1138	1	MDKBD, MDKBE (1-3/8")
2	185-6723	1	Joint, Breather		503-1139	1	MDKBF (2")
3			Gasket	8	503-1143	1	Clamp, Hose (3")
	185-6035	1	MDKBD, MDKBE	9			Hose, Intake
	185-7065	1	MDKBF		503-1939	1	MDKBD, MDKBE
4			Bolt				(1-3/8 x 28")
	185-2402	7	MDKBD, MDKBE		503-2009-01	1	MDKBF (1-3/8 x 31")
	185-2402	9	MDKBF	10	332-1389	1	Cable, Tie
5			Resonator, Intake				
	140-2859	1	MDKBD, MDKBE				
	140-3021	1	MDKBF				

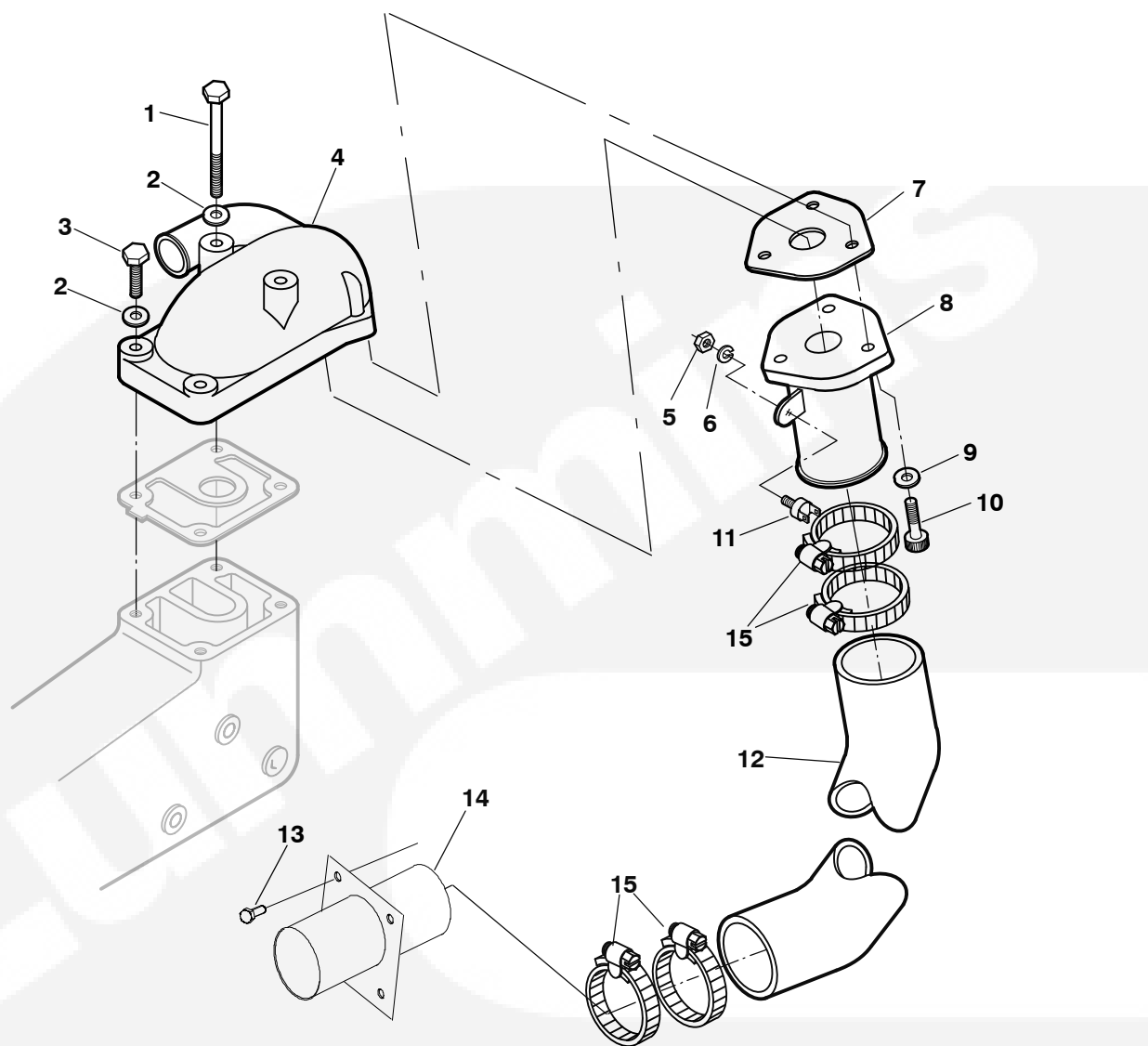
Exhaust Manifold



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-2975	1	*Gasket, Riser, Adapter	5			Washer, Flat (M8)
2			Gasket, Exhaust Manifold	526-2100	8		MDKBD, MDKBE
	154-2915	4	MDKBD, MDKBE	526-2100	10		MDKBF
	154-2915	5	MDKBF	6			Nut (M8 x 1.25)
3			Manifold, Exhaust	750-1006	8		MDKBD, MDKBE
	154-2887	1	MDKBD, MDKBE	750-1006	10		MDKBF
	154-3002	1	MDKBF				
4			Stud				
	520-2218-01	8	MDKBD, MDKBE				
	185-7064	10	MDKBF				

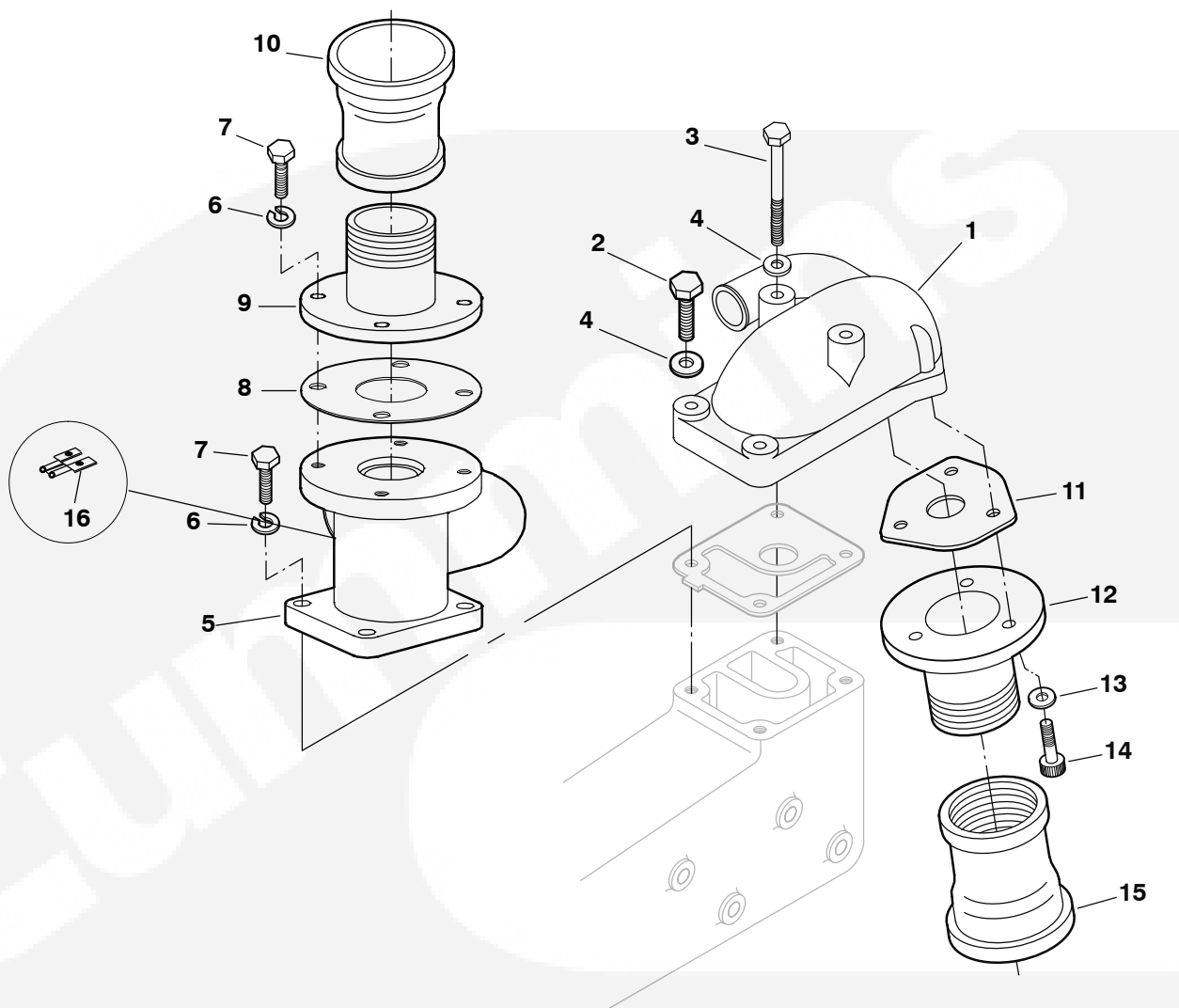
* - Part Included in Exhaust Adapter Kit Found on Dry Exhaust Page.

Wet Exhaust



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Kit, Exhaust (Wet)				
	541-0852-01	1	MDKBD, MDKBE (Rear Out)	11	309-0597-01	1	Switch, High Exhaust Temperature (S5)
	541-0852-02	1	MDKBD, MDKBE (Front Out)	12			Hose, Exhaust Front
	541-0852-03	1	MDKBF (Rear Out)		503-2344	1	MDKBD, MDKBE
	541-0852-04	1	MDKBF (Front Out)		503-2345	1	MDKBF
	155-3284	1	Kit, Exhaust (Wet)				Rear
1	800-2067	2	Screw, Hex Head Cap (M8 x 1.25 x 70mm)		501-0797-01	1	MDKBD, MDKBE
2	526-2100	4	Washer, Flat (M8)		501-0797-02	1	MDKBF
3	800-2059	2	Screw, Hex Head Cap (M8 x 1.25 x 30mm)	13	821-6006-01	4	Screw, Hex Head Sems Stainless (M6 x 1 x 16mm)
4	154-2891	1	Riser, Exhaust	14	405-7210	1	Bulkhead, Exhaust Connector
5	750-1006	1	Nut, Hex (8-32)	15	503-1142	4	Clamp, Hose Exhaust
6	850-0025	1	Washer, Lock (M8)				
7	155-3061	1	Gasket, Mixer				
8	154-3163	1	Mixer				
9	740-1004	3	Washer, Flat (M6)				
10	802-2068	3	Screw, Socket Cap (M6 x 1 x 20mm)				

Dry Exhaust (Up or Down)



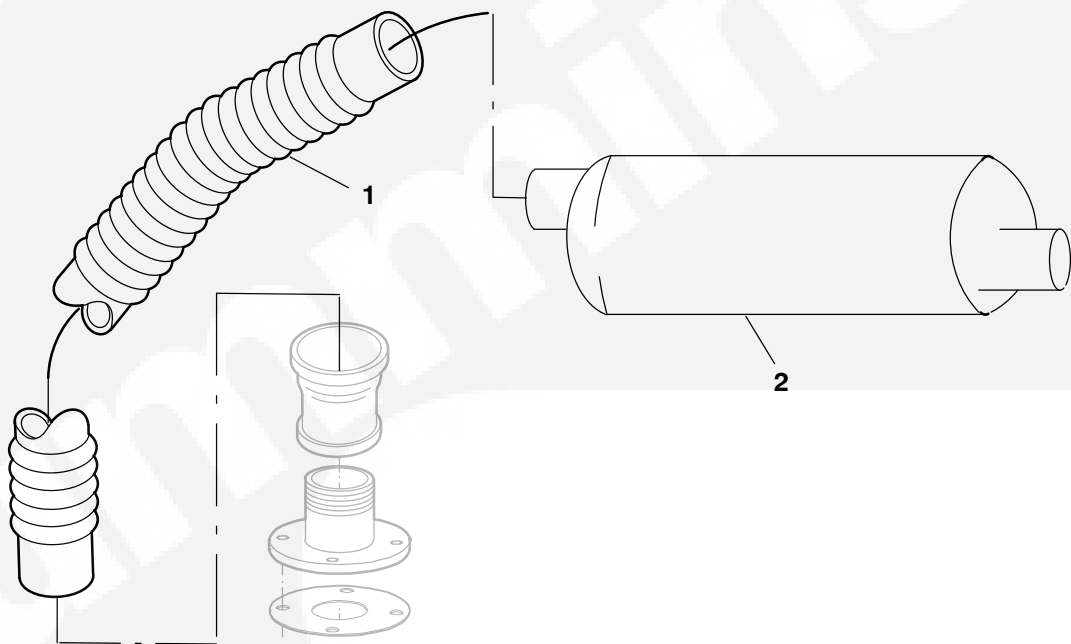
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	155-3094	1	Kit, Exhaust Flange (Includes Parts Marked +)
	155-2980	1	Kit, Exhaust Adapter (Includes Parts Marked *)
1	154-2891	1	Riser, Exhaust
2	800-2059	2	Screw, Hex Head Cap (M8 x 1.25 x 30mm)
3	800-2067	2	Screw, Hex Head Cap (M8 x 1.25 x 70mm)
4	526-2100	4	Washer, Flat (M8)
5	154-2963-02	1	*Adapter, Exhaust
6	850-2008	8	*Washer, Lock (M8)
7	800-2058	8	*Screw, Hex Head Cap (M8 x 1.25 x 25mm)
8	155-2981	1	*Gasket, Exhaust Adapter

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	155-3069-02	1	*Flange, Exhaust
10	505-0339-02	1	*Coupling, Reducer (2 x 1-1/2")
11	155-3061	1	+ Gasket, Exhaust (Mixer)
12	155-3068-02	1	+ Flange, Exhaust
13	740-1004	3	+ Washer, Flat (M6)
14	802-2068	3	+ Screw, Allen Socket Cap (M6 x 1 x 20mm)
15	505-0339-02	1	+ Bushing, Reducer (1-1/2 x 2")
16	332-1571	1	Jumper, Temp Switch

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

+ - Parts Included in Exhaust Flange Kit.

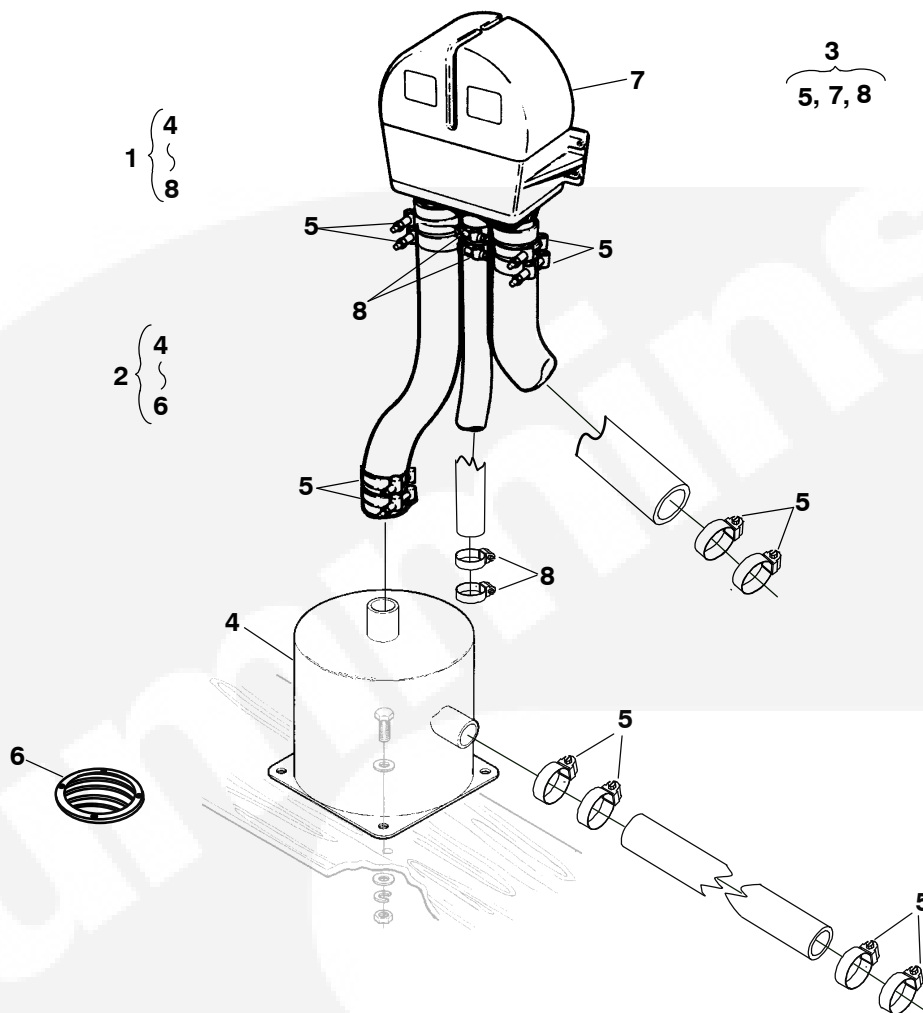
Muffler



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



Water Separator, Muffler



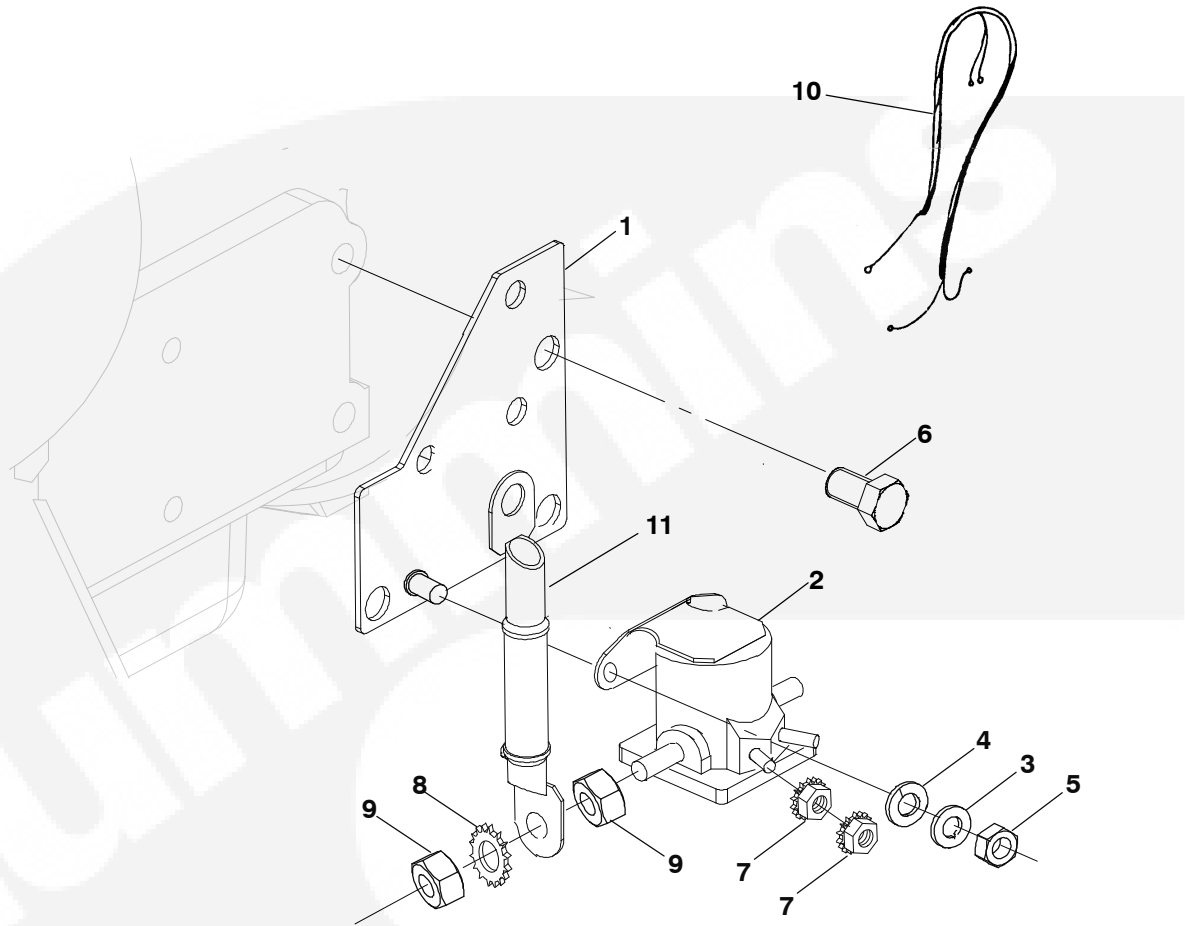
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Kit, Muffler, Separator (Includes Parts Marked *)	5			Clamp, Hose (2")
	155-3217	1	MDKBD, MDKBE		503-1133	8	+ MDKBD, MDKBE
	155-3223	1	MDKBF		503-1133	4	+ Muffler Kit (2")
2			Kit, Muffler (Includes Parts Marked +)		503-1133	10	# Separator Kit (2")
	155-2030	1	MDKBD, MDKBE		503-1133	8	* Muffler, Separator Kit (2")
	155-3222	1	MDKBF		503-1133	4	MDKBF
3			Kit, Water Separator (Includes Parts Marked #)		503-1133	10	* Muffler/Separator Kit (2")
	155-3216	1	MDKBD, MDKBE	6	155-1002	1	*+ Strainer, Water Pickup
	155-3224	1	MDKBF	7			*#Separator, Water
4			*+ Muffler, Marine		155-3218	1	(2")MDKBD, MDKBE
	155-2029	1	MDKBD, MDKBE		155-3221	1	(2-1/2")MDKBF
	155-3220	1	MDKBF	8	503-1139	4	*#Clamp, Hose (1-1/2")

* - Parts Included in Muffler/Separator Kit.

+ - Parts Included in Muffler Kit.

- Parts Included in Water Separator Kit.

Isolated Ground

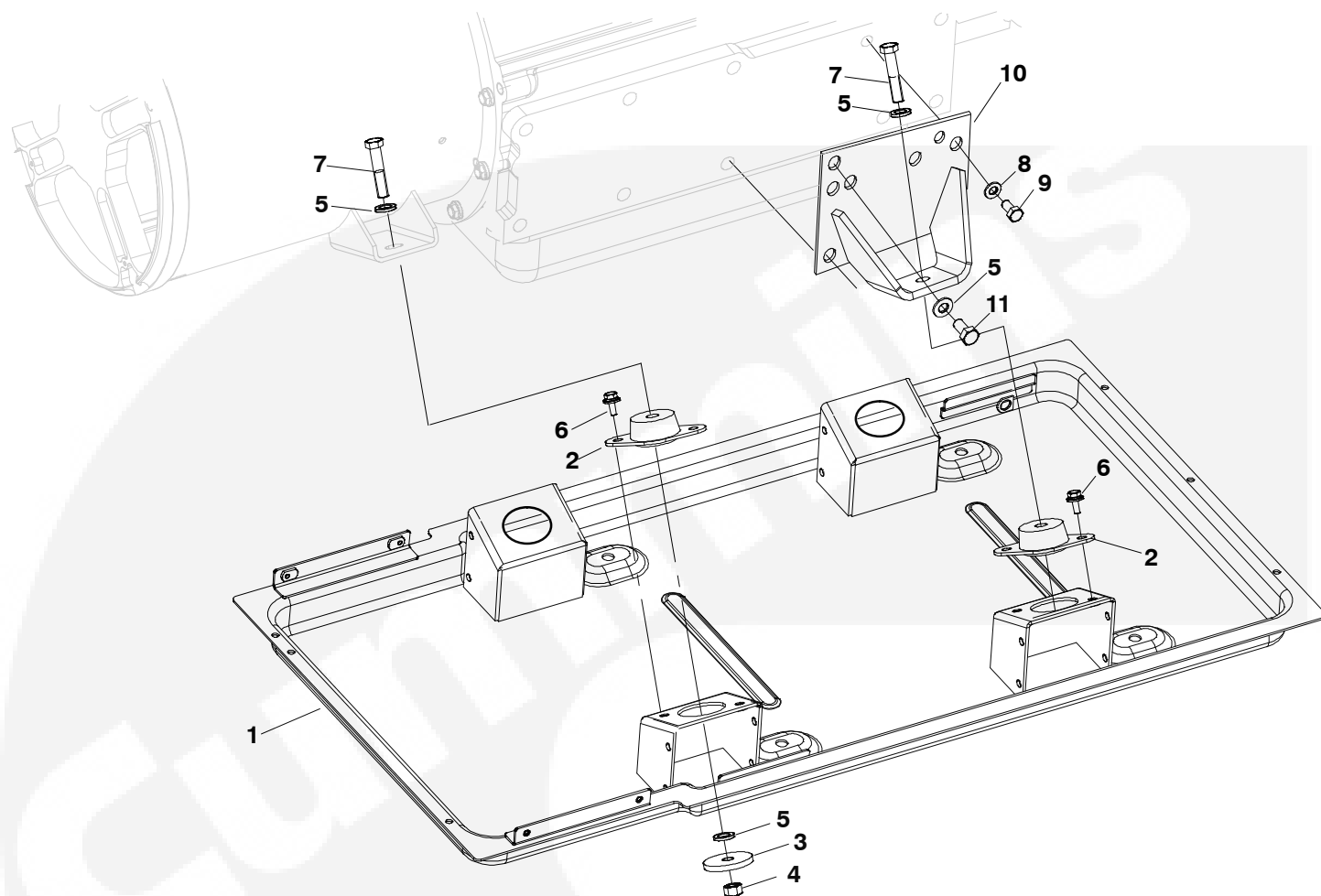


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Kit Isolated Ground (Includes Screws, Sending Units and Harness)
	541-0823	1	12V
	541-0834	1	24V
	333-0665-01	1	12V
	333-0665-02	1	24V
1	333-0662-02	1	Bracket, Solenoid (Includes Parts Marked +)
2			+*Relay, Solenoid
	307-1617	1	12V
	307-2656	1	24V
3	526-0399-58	2	+Washer, Flat (M6)
4	850-0114-53	2	+Washer, Split Lock (M6)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
5	862-0026-54	2	+ Nut, Hex (M6)
6	800-3031	3	Screw, Hex Head Cap (M12 x 1.25 x 20)
7	870-0131-01	2	+ Nut, ET Hex (#10-32) (12V)
8	853-0016	2	+ Washer, ET Lock (5/16")
9	862-0026-30	2	+ Nut, Hex (5/16-24)
10	338-4200-01	1	Harness, Isolated Ground
11	338-4200-02	1	+ Harness, Ground

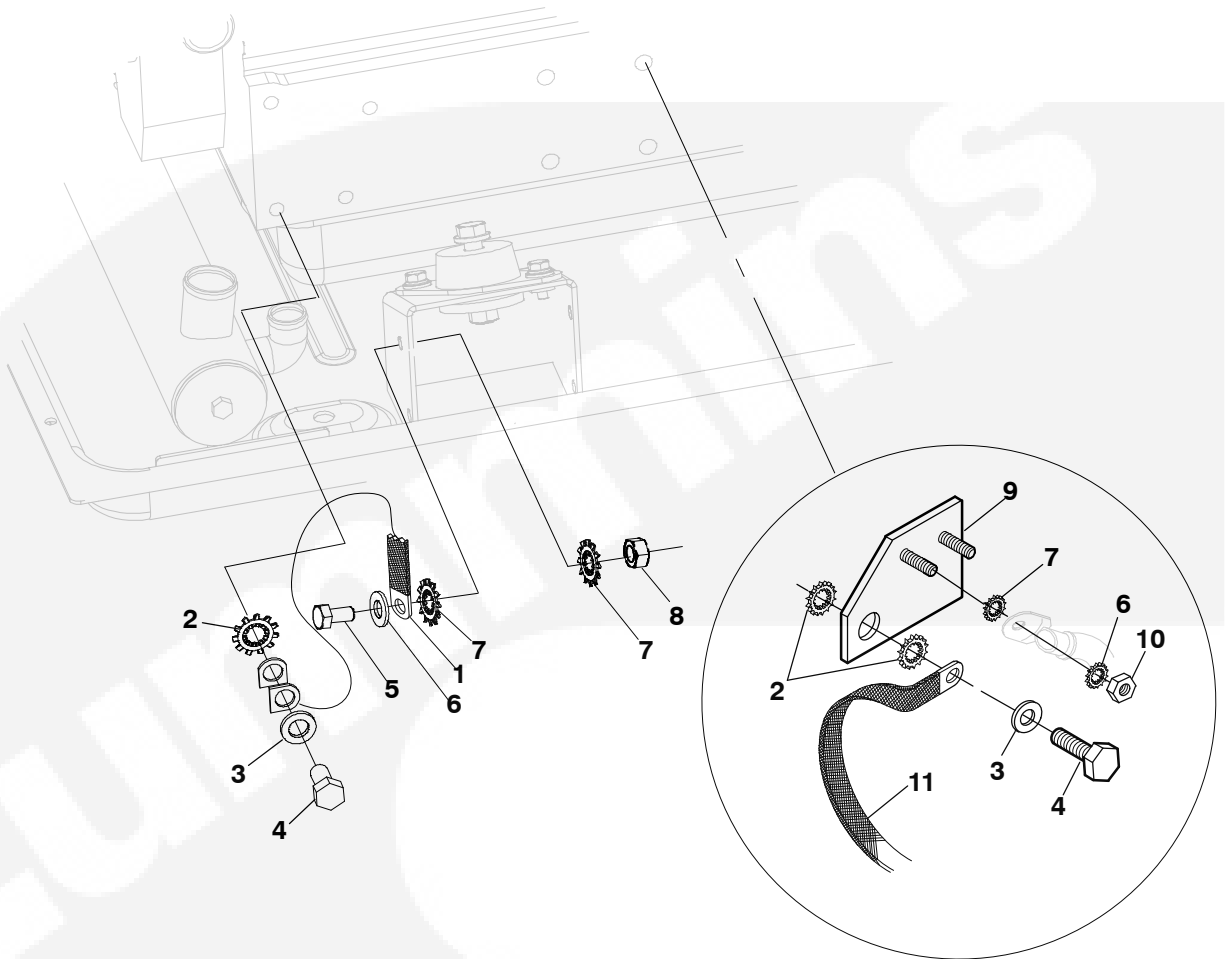
* - Relay Solenoid ties to B- and K9-1 Isolated Ground
Harness (338-4200-01)
+ - Solenoid Bracket Assembly Parts

Mounting Base



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4581-02	1	Base, Generator Mounting	6	821-6003-01	8	Screw, Hex Head Cap (M8 x .25 x 16mm)
	403-4624-02	1	MDKBD, MDKBE	7	800-2118	4	Screw, Hex Head Cap (M12 x 1.75 x 60mm)
2			Isolator, Mounting	8	526-2120	1	Washer, Rocker Ball (MDKBF)
	403-3573	4	MDKBD, MDKBE	9	800-3030	1	Screw, Hex Head Cap (MDKBF) (M10 x 1.25 x 20mm)
			W/O PTO	10			Mount, Engine
			W/PTO		403-4059-03	1	MDKBF
	403-3573	2	Generator End		403-3972-03	1	MDKBF
	403-3955	2	Engine End		403-4059-03	2	MDKBD, MDKBE
			MDKBF	11			Screw, Hex Head Cap (M12 x 1.25 x 20mm)
	403-3955	4	W/O PTO		800-3031	7	without PTO
			W/PTO		800-3031	1	with PTO
	403-3955	2	Generator End				
	403-4091	2	Engine End				
3	526-0172	4	Washer, Flat (M12)				
4	860-2010	4	Nut, Hex Machine (M12 x 1.75)				
5			Washer, Flat (M12)				
	526-2140	19	Without PTO				
	526-2140	13	With PTO				

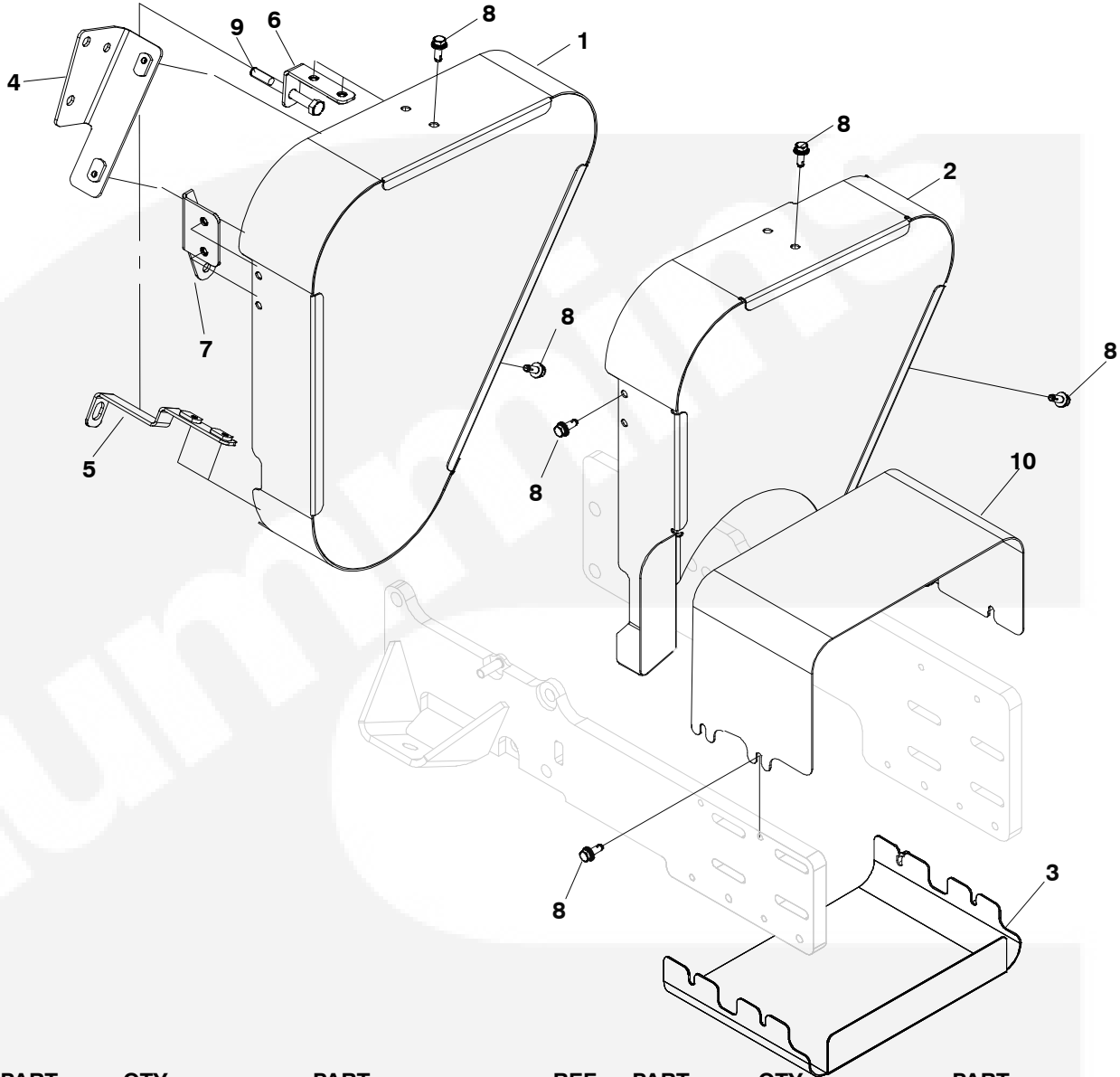
Grounding System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	337-2785	1	Strap, Bond
2	856-0013	3	Washer, EIT Lock (1/2)
3	526-2140	2	Washer, Flat (M12)
4	800-3031	1	Screw, Hex Head Cap (M12 x 1.25 x 20mm)
5	718-1036	2	Screw, Hex Head Cap (M8 x 1.25 x 20mm)
6	526-2100	2	Washer, Flat (M8)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	856-0008	4	Washer, EIT Locking (5/16")
8	750-1006	1	Nut, Hex (M8 x 1.25mm)
9	337-2784-02	1	Bar, Bus
10	871-0025	1	Nut, Hex Brass (5/16-18")
11	337-0090-02	1	Strap, Electrical

Belt Guard and PTO Belt Guard



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-0837-01	1	Kit, Belt Guard (Neg Ground) (Includes Parts Marked*)
	541-0837-02	1	Kit, Belt Guard (ISO Ground) (Includes Parts Marked+)
	541-0837-03	1	Kit, Belt Guard (PTO) (Includes Parts Marked~)
1			Guard, Belt W/O PTO
	130-4652-03	1	Negative Ground
	130-4714-03	1	Isolated Ground
2	130-5471-03	1	~Guard, Belt W/PTO
3	130-5470-03	1	~Coupling Guard W/PTO
4			Bracket, Guard
	130-4382-03	1	*~ Negative Ground
	130-4411-03	1	+ Isolated Ground
5	130-4491-03	1	*Bracket, Guard (Negative Ground) (W/O PTO)
6	130-4492-03	1	*~Bracket, Guard (Negative Ground)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	130-4381-03	1	*+~Bracket, Guard
8			*+~Screw, Hex Head Cap (M6 x 12)
	821-6006-01	12	Negative Ground
	821-6006-01	8	Isolated Ground
	821-6006-01	14	PTO
9	718-1047	1	*~Screw, Hex Head Cap (M6 x 1.25 x 75mm)
10	130-5469-03	1	~Coupling, Guard
11	98-4798-01	1	*+~Label, Warning

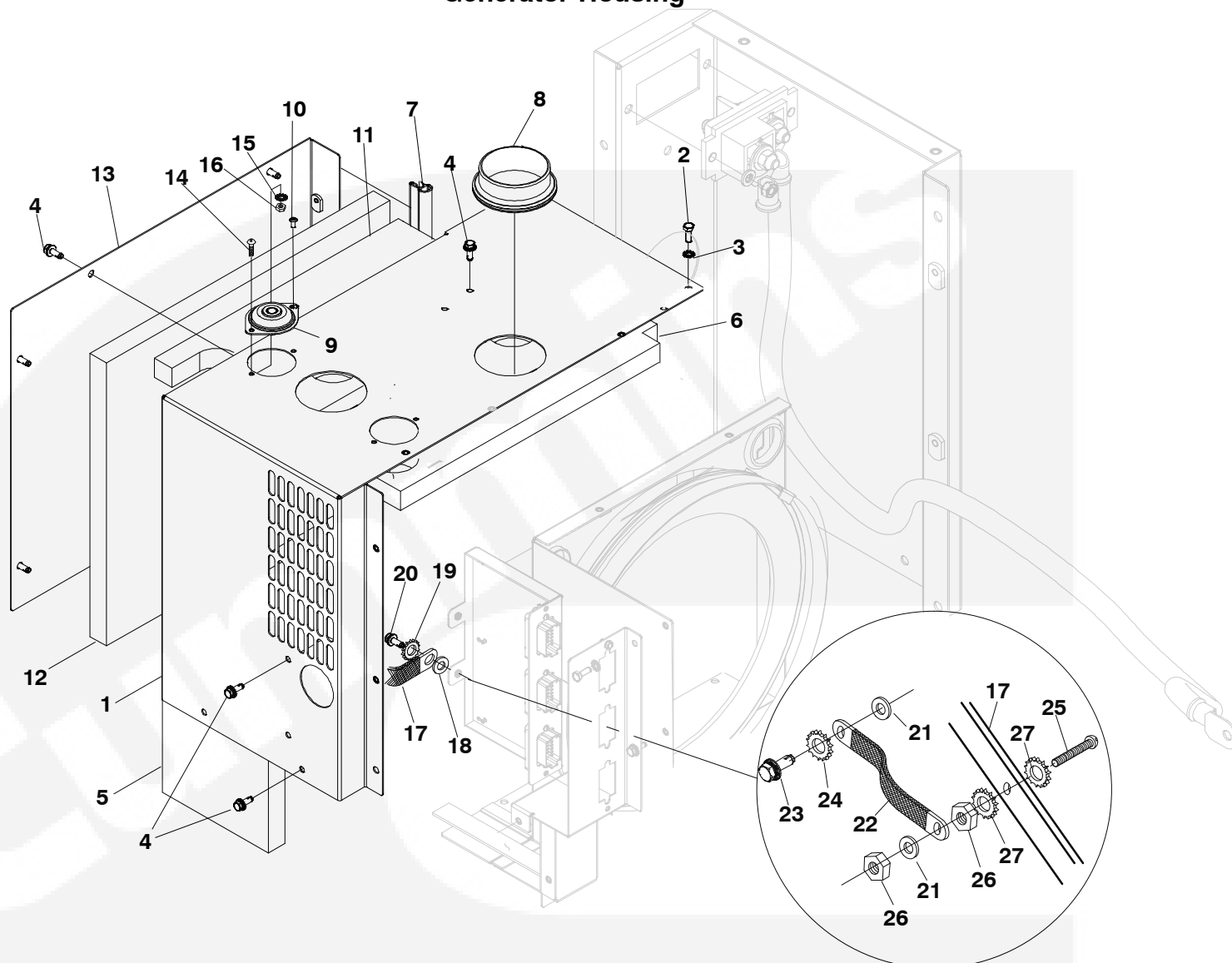
All Parts are for Unhoused Units Only

* - Parts Included in Negative Gnd Belt Guard Kit

+ - Parts Included in ISO Gnd Belt Guard Kit

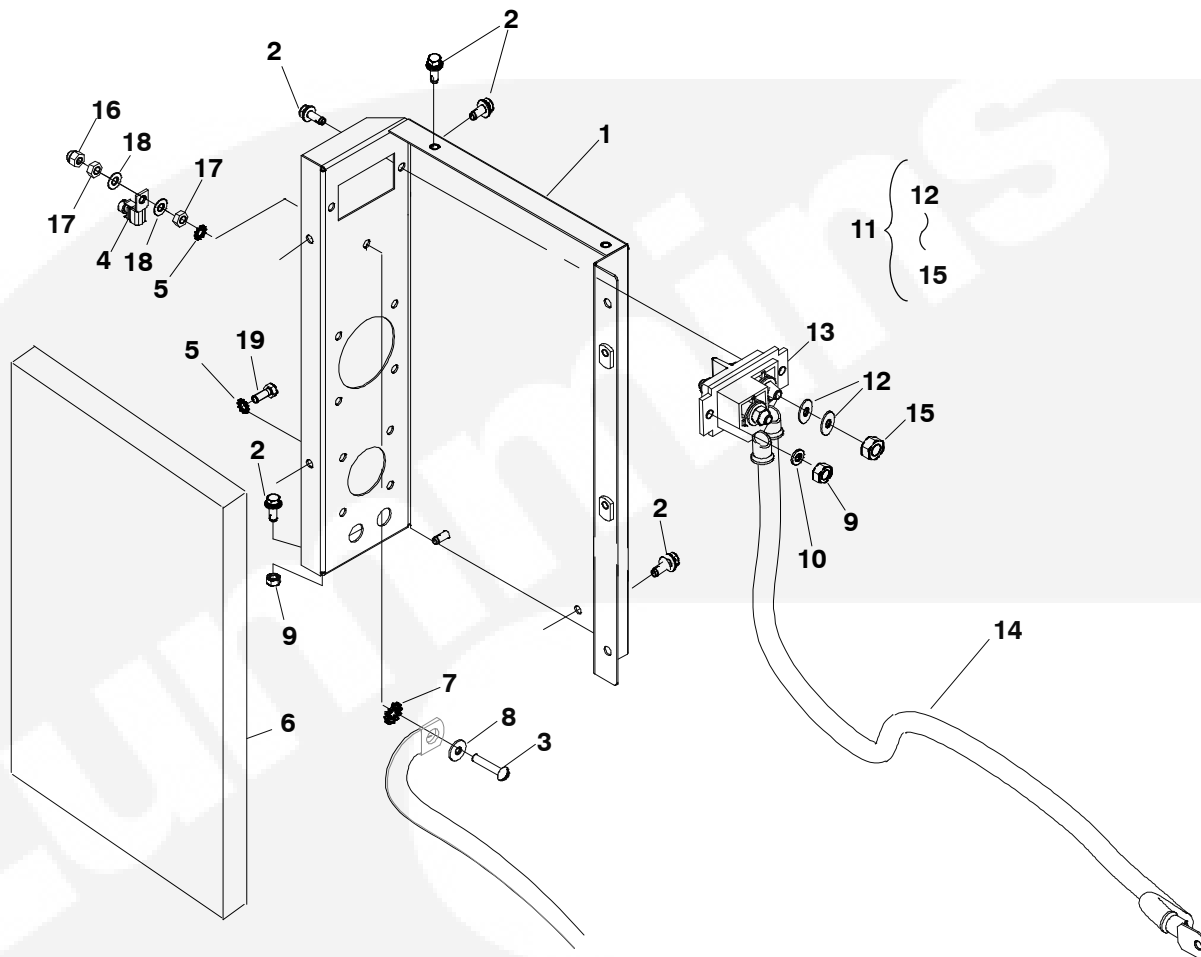
~ - Parts Included in PTO Belt Guard Kit

Generator Housing



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-6491-03	1	Panel, Housing Single Phase	14	813-1000	1	Screw, Slotted Round Head (10-32 x .500")
	405-7429-03	1	Three Phase	15	856-0003	1	Washer, EIT Lock (#10)
2	800-6033	4	Screw, Hex Head Cap (M6 x 1 x 16mm)	16	870-0131	1	Nut, Sems
3	853-2006	4	Washer Lock ET (M6)	17	337-3507	1	Strap, Bond
4	821-6006-01	10	Screw, Hex Head Stainless (M6 x 1.0 x 16mm)	18	526-2050	1	Washer, Flat (M4)
5			Insulation, Panel (Side)	19	856-0002	1	Washer, EIT (#8)
	405-6684	1	Single Phase	20	800-3042	1	Screw, Hex Head (M4 x 10mm)
	405-7430	1	Three Phase	21	529-2291	2	Washer, Flat
6	405-6685	1	Insulation, Panel (Top)	22	337-0081	1	Strap, Bond
7	895-0402	1	Seal, Weather (1.21')	23	821-6001-03	1	Screw, Hex Head Sems (M5 x .8 x 16mm)
8	508-1152	2	Grommet, Rubber	24	856-0003	1	Washer, EIT (#10)
9	402-0681-01	3	Isolation, Vibration	25	810-0155	1	Screw, Slotted Round Head (1/4-20 x 1.25)
10	818-0231-01	5	Rivet, Pop	26	871-0016	2	Nut, Hex Brass (1/4-20)
11	405-6686	1	Insulation, Panel (Top)	27	856-0006	2	Washer, EIT (1/4)
12	405-6689	1	Insulation, Panel (Rear)				
13	405-7208-03	1	Cover, Enclosure (Rear)				

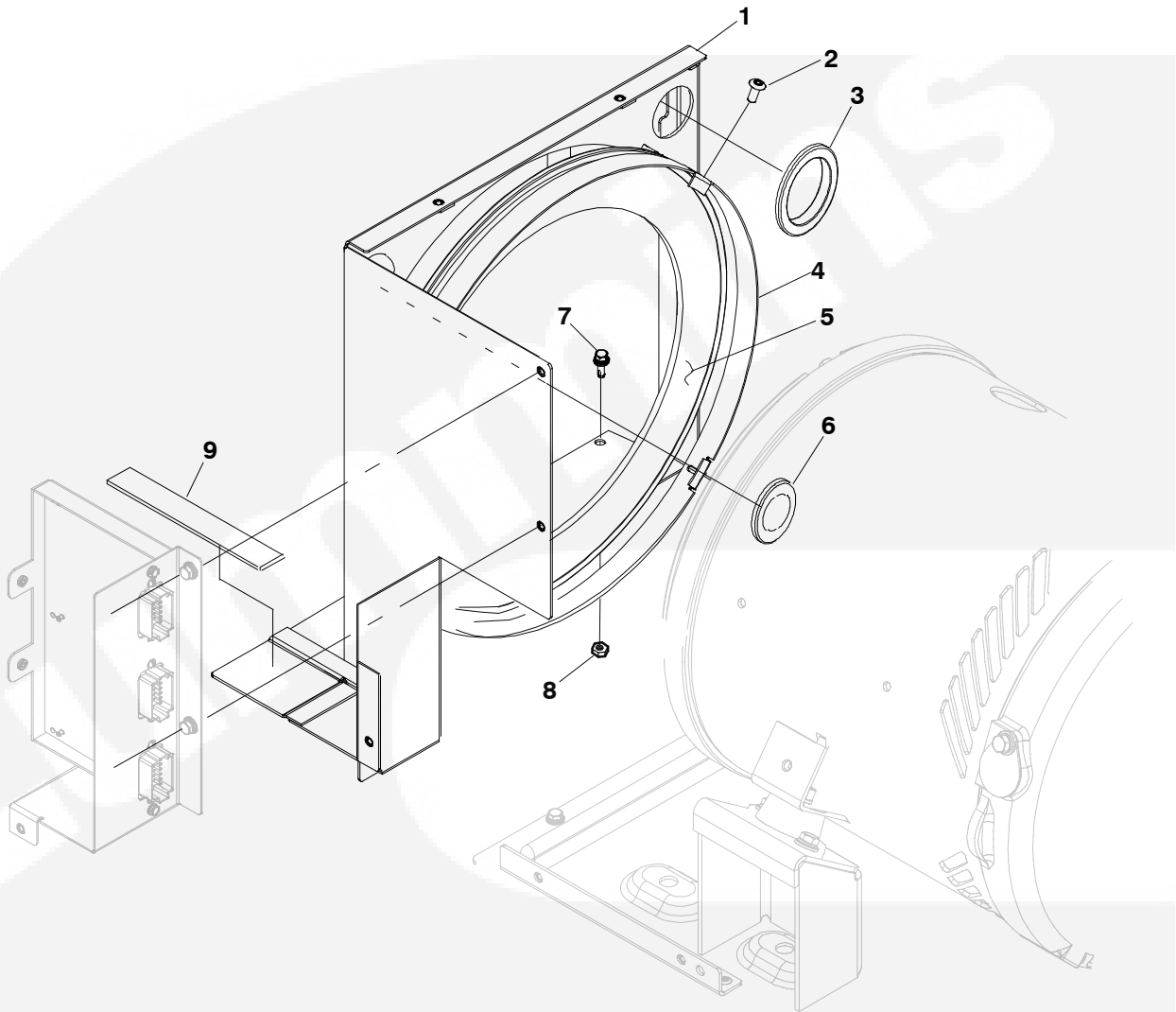
Generator Housing Panel



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	405-6492-03	1	Panel, Housing	12	526-0054	4	*Washer, Flat Brass (5/16")
2	821-6006-01	7	Screw, Hex Sems Stainless Steel (M6 x 1 x 16mm)	13	332-3408	1	*Block, Terminal
3	810-0155	1	Screw, Round Head Brass (1/4-20 x 1-1/4)	14			*Cable, Welding
4	332-0142	1	Lug, Solderless		334-0935-03	1	6.58' (MDKBD, MDKBE)
5	853-2006	2	Washer, ET (M6)		334-0935-03	1	8' (MDKBF)
6	405-6682	1	Insulation, Sound	15	871-0025	2	*Nut, (.313-18)
7	856-0006	1	Washer, EIT (1/4")	16	860-2036	1	Nut, Hex Acorn (1/4-20 Nylon)
8	526-2083	1	Washer, Flat (M6)	17	871-0016	2	Nut, Hex Brass (1/4-20)
9	860-2021	4	Nut, Hex (M6)	18	526-0052	2	Washer, Flat (1/4")
10	526-2081	2	Washer, Flat	19	800-6033	3	Screw, Hex Head Cap (M6 x 1 x 16mm)
11			Harness, Battery				
			(Includes Parts Marked *)				
	338-4176-03	1	MDKBD, MDKBE				
	338-4176-04	1	MDKBF				

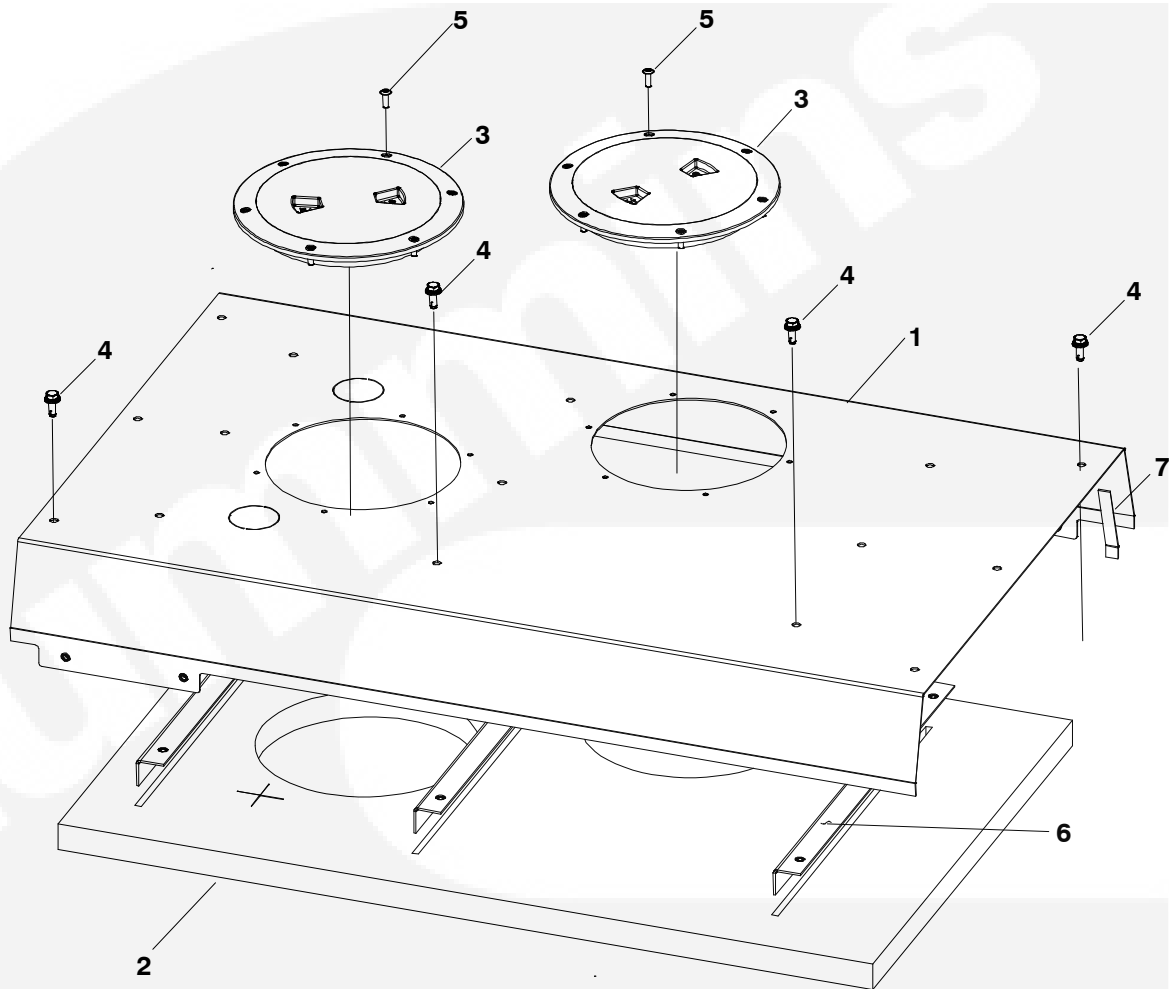
* - Parts Included in Battery Harness

Generator Baffle



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	405-7038-03	1	Baffle, Generator	6	517-0138-07	1	Plug, Hole
2	823-0002-02	4	Screw, Torx Thread Form (M4 x 0.7 x 8mm)	7	821-6006-01	4	Screw, Hex Head Sems Stainless (M6 x 1.0 x 16mm)
3	508-0051	1	Grommet, Rubber (MDKBD, MDKBE)	8	860-2021	5	Nut, Hex Head (M6 x 1mm)
4	405-7164-02	1	Bracket, Baffle	9	895-0308	7"	Tape, Polyurethane (MDKBF)
5	509-0368	1	Seal, Brush				

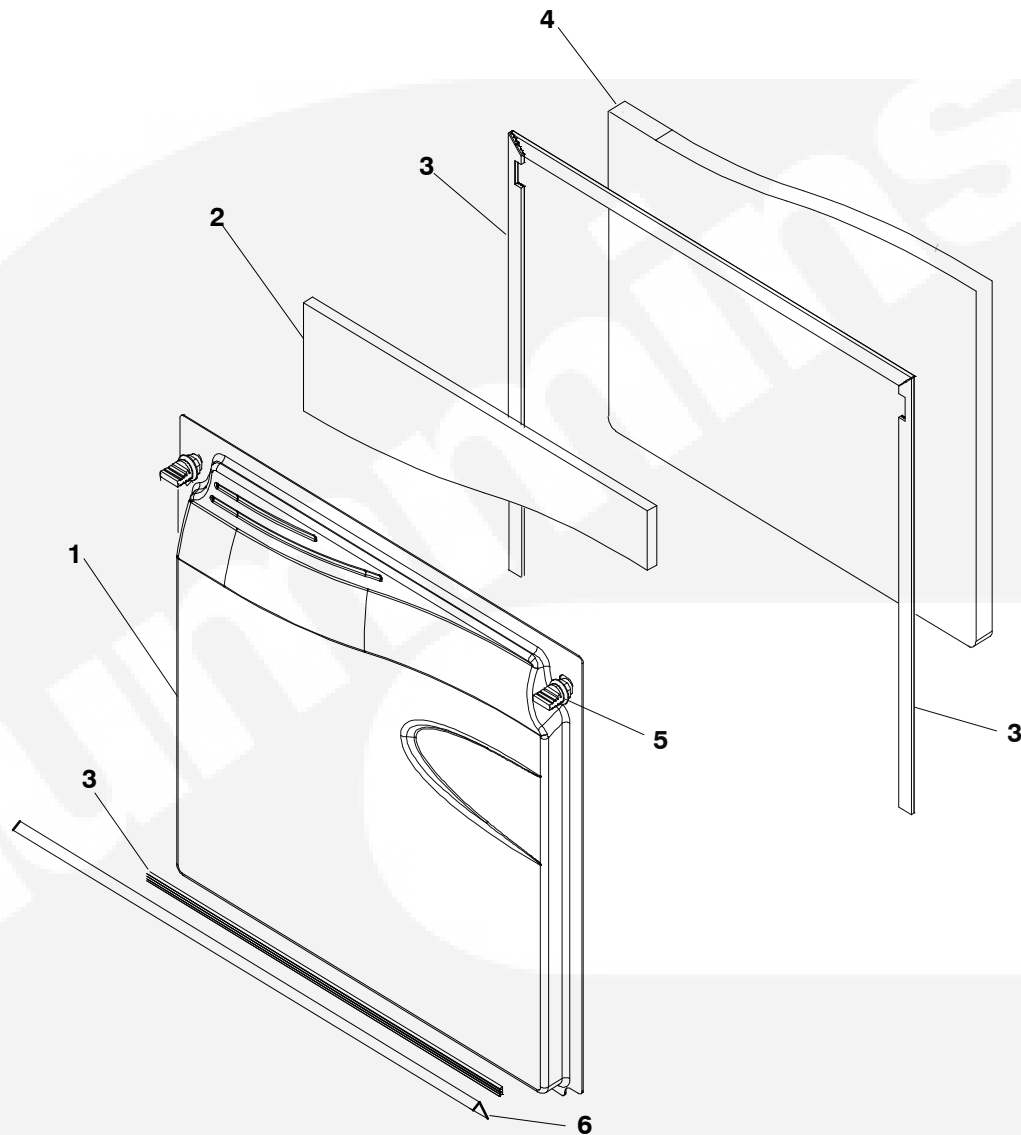
Engine Sound Shield



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Kit, Sound Shield (Complete, Includes Roof, Doors, Ends And Insulation, Refer to Pages 77-81)	2			*Insulation, Roof
541-0830-01	1		MDKBD, MDKBE	405-6990	1		MDKBD, MDKBE
541-0830-02	1		MDKBF	405-6991	1		MDKBF
			Kit, Roof Panel (Includes Parts Marked *)	3	405-6340	2	*Cover, Access
405-7359-01	1		MDKBD, MDKBE	4			Screw, Hex Head Sems (M6 x 1 x 16mm)
405-7359-02	1		MDKBF	821-6006-01	15		(MDKBD, MDKBE)
405-7361	1		Kit, Roof Panel (MDKBF) (Includes Parts Marked~)	821-6006-01	6		(MDKBF)
1			*Panel, Roof	5	818-0239-03	12	Rivet, Pop
405-6870-03	1		MDKBD, MDKBE	6	405-7345-02	3	*Stiffener, Enclosure (MDKBD, MDKBE)
405-6971-03	1		MDKBF	7	405-5052	4	*Gasket, Baffle

* - Parts Included in Roof Panel Kit.

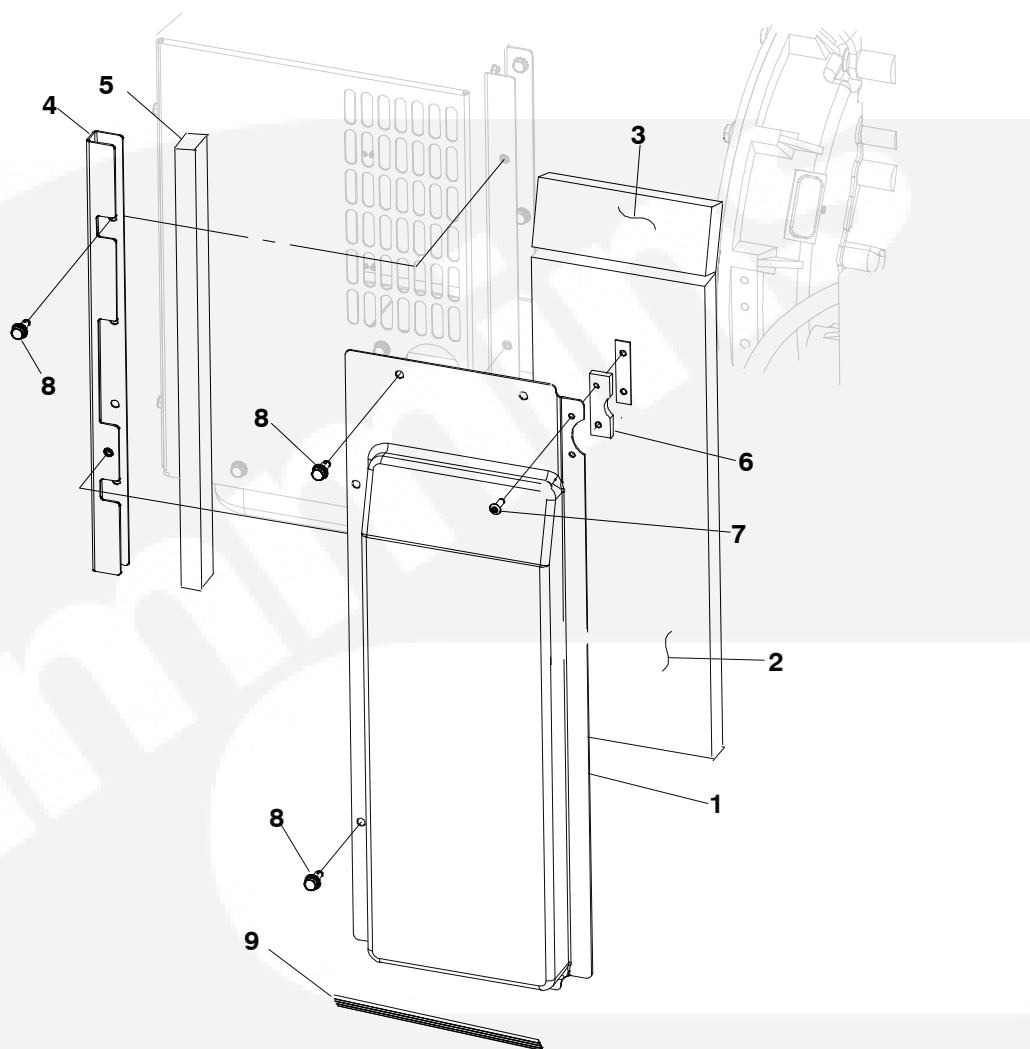
Engine Panel Sound Shield



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	405-6957-01	1	Kit, Door (Includes Parts Marked *)	5	406-0958	2	*Latch, Door (1/4 Turn Total 4 per Unit)
1	405-6519-03	1	*Door, Sound Shield	6			*Seal, Weather
2	405-6797	1	*Insulation, Door	895-0411	5.6'		MDKBD, MDKBE
3			Seal, Weather (For Single Side)	895-0411	7.1'		MDKBF
	895-0395	12.5'	MDKBD, MDKBE				
	895-0395	13.2'	MDKBF				
4	405-6687	1	*Insulation, Door				

* – Parts Included in Door Kit.
Parts quantity marked for single side only.

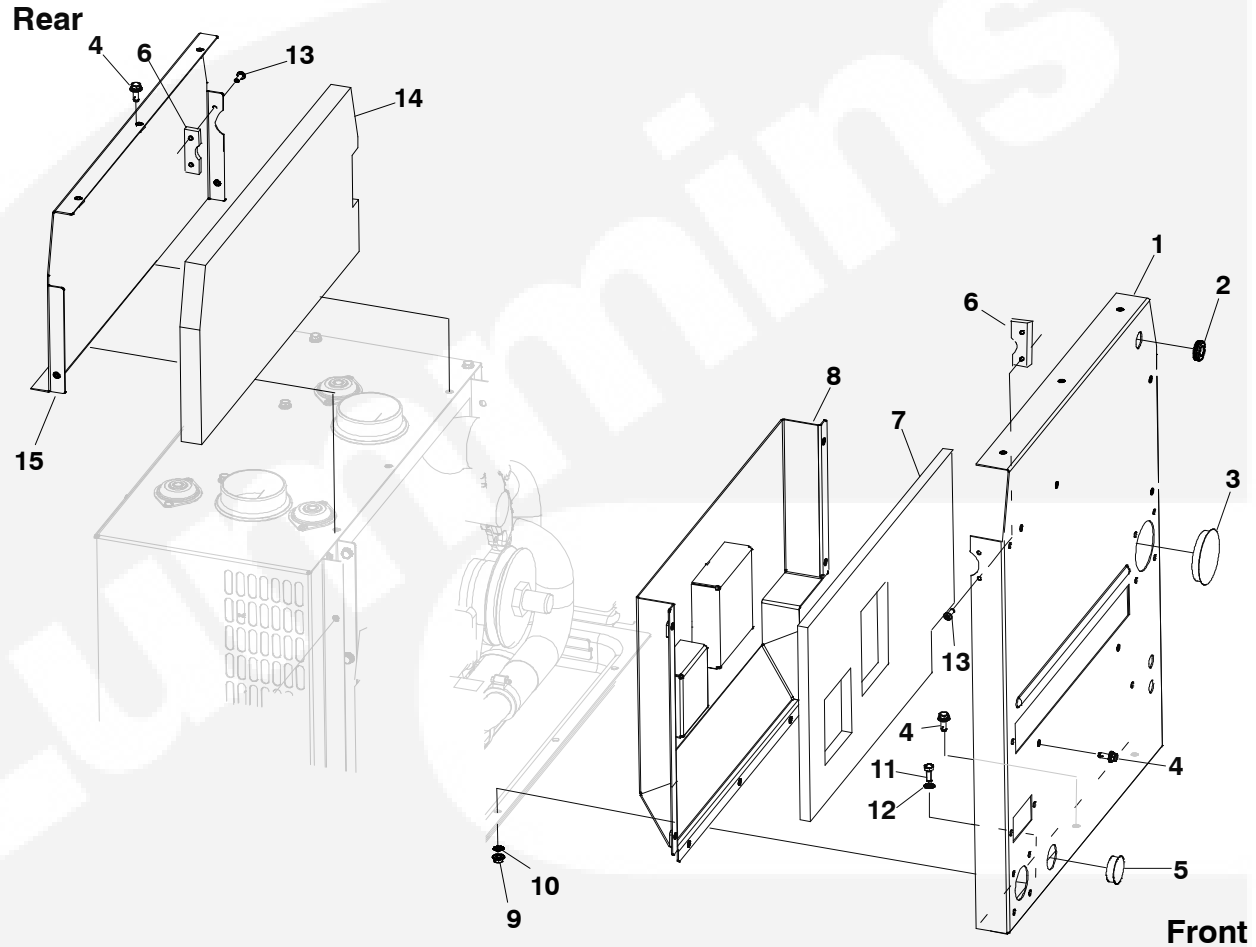
Engine Panel Sound Shield



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Kit, Access Panel (Includes Parts Marked *)	4	405-7104-03	1	Spacer, Panel
	405-7357-01	1	MDKBD, MDKBE	5	405-7347	1	*Insulation
	405-7357-02	1	MDKBF	6	406-1032	2	*Catch, Door
1			*Panel, Access	7	818-0217-03	2	*Rivet
	405-6972-03	1	MDKBD, MDKBE	8	821-6006-01	8	Screw, Hex Head Sems Stainless (M6 x 1 x 16mm)
	405-7102-03	1	MDKBF	9			*Seal, Weather
2			*Insulation, Access Panel Sound Lower	895-0395	AR		MDKBD, MDKBE (0.2')
	405-6995-01	1	MDKBD, MDKBE	895-0395	AR		MDKBF (0.9')
	405-6995-02	1	MDKBF				
3			*Insulation, Access Panel Sound, Upper				
	405-6993-01	1	MDKBD, MDKBE				
	405-6993-02	1	MDKBF				

* - Parts Included in Access Panel Kit.
Parts quantity marked for single side only.

Engine Panel Sound Shield (Front and Rear with out PTO)



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	405-7358-01	1	Kit, Enclosure Panel (Includes Parts Marked *)
	405-7360	1	Kit, Duct Panel (Includes Parts Marked +)
1	405-6868-03	1	*Panel, Enclosure (Front W/O PTO)
2	508-0021	1	Grommet
3	517-0138-09	1	*Plug, Hole
4	821-6006-01	6	Screw, Hex Head Sems Stainless (M6 x1 x 16mm)
5	517-0138-04	1	*Plug, Hole
6	406-1032	2	*~Catch, Door
7	405-6992	1	+Insulation, Duct (W/O PTO)
8	405-7350-03	1	+Panel, Duct (W/O PTO)
9	860-2021	3	Nut, Lock Flanged (M6 x 1mm)
10	850-2056	1	Washer, (M6)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
11	800-6033	1	Screw, Hex Head (M6 x1 x 16mm)
12	853-2006	1	Washer, Lock ET (M6)
13	818-0217-03	4	~*Rivet
14	405-7179	1	~Insulation, Roof End
15	405-6871-03	1	~Panel, Roof End

* - Parts Included in Enclosure Panel Kit MDKBD, MDKBE, MDKBF.

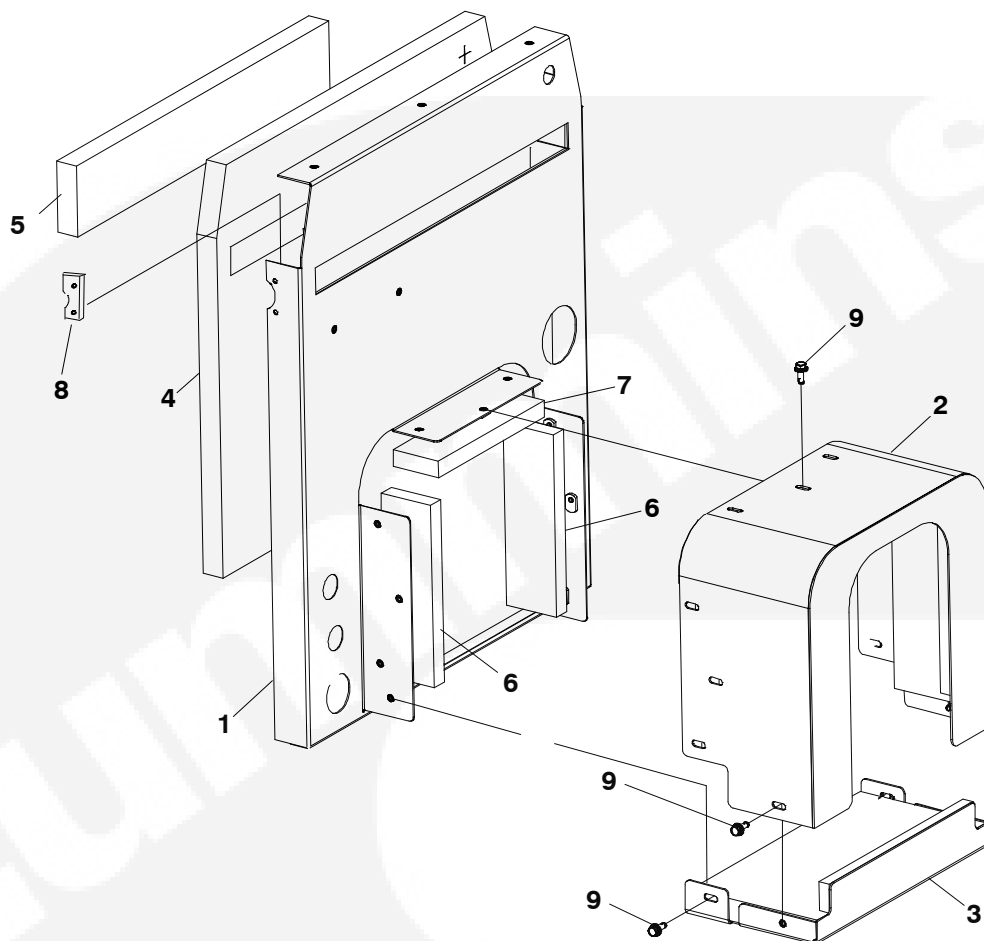
+ - Parts Included in Duct Panel Kit MDKBD, MDKBE, MDKBF.

~ - Parts Included in Roof Panel Kit MDKBD, MDKBE, MDKBF.

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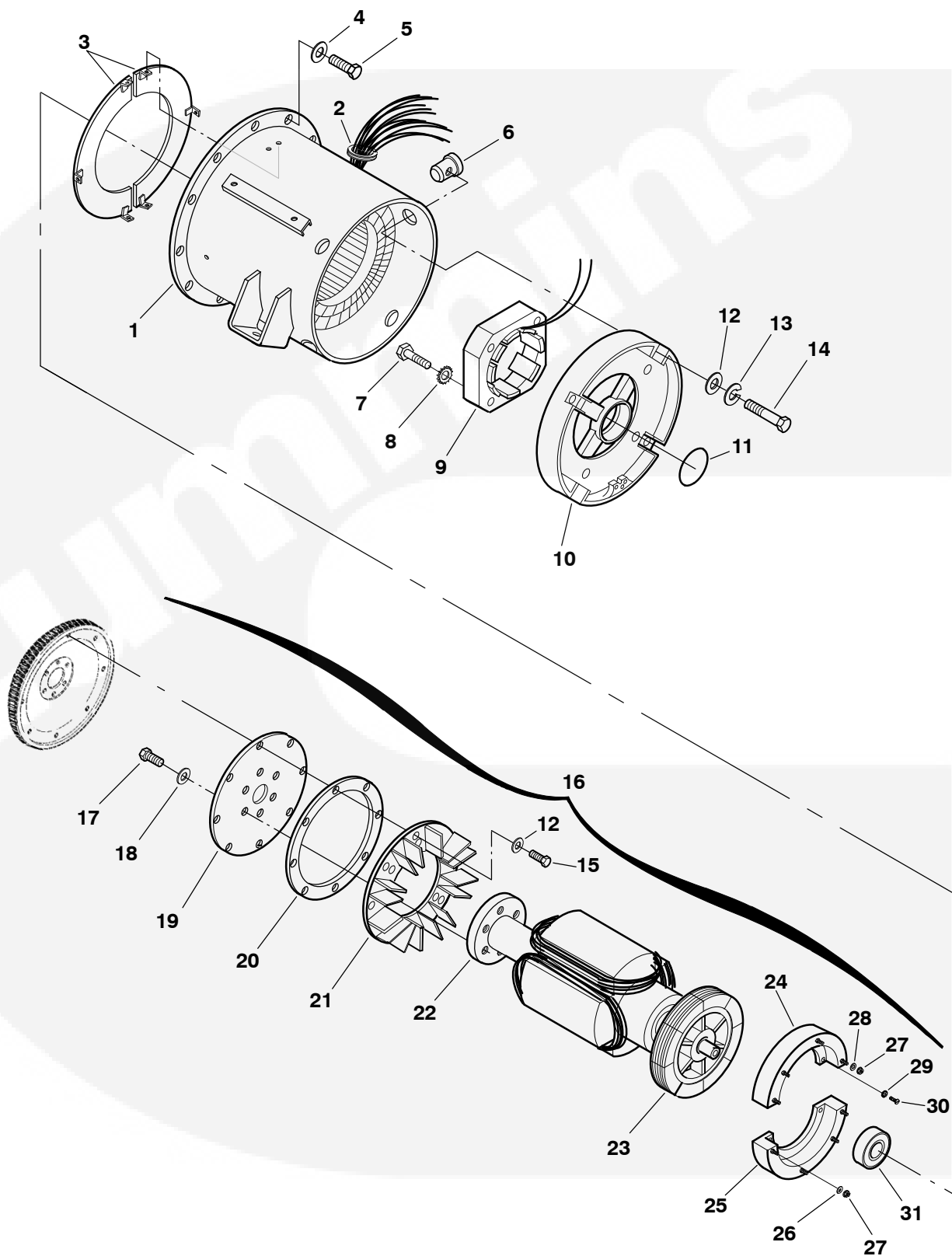
Engine Panel Sound Shield (Front w/PTO)



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	405-7358-02	1	Kit, Panel Enclosure (Includes Parts Marked *)	8	406-1032	1	*Catch, Door
	190-0778	1	Kit, Coupling Guard (Includes Parts Marked +)	9	821-6006-01	8	+Screw, Hex Head Sems Stainless (M6 x1 x 16mm)
1	405-7230-03	1	*+Panel, Enclosure				
2	405-6812-02	1	+Guard, Coupling				
3	405-6817	1	+Guard, Coupling (Lower)				
4	405-7231	1	*+Insulation, Sound				
5	405-5010-02	1	*Insulation				
6	405-6866	2	*+Insulation, Sound				
7	405-6867	1	*+Insulation, Sound				

* - Parts Included in Enclosure Panel Kit with PTO.
+ - Parts Included in Coupling Guard Kit with PTO.

Generator



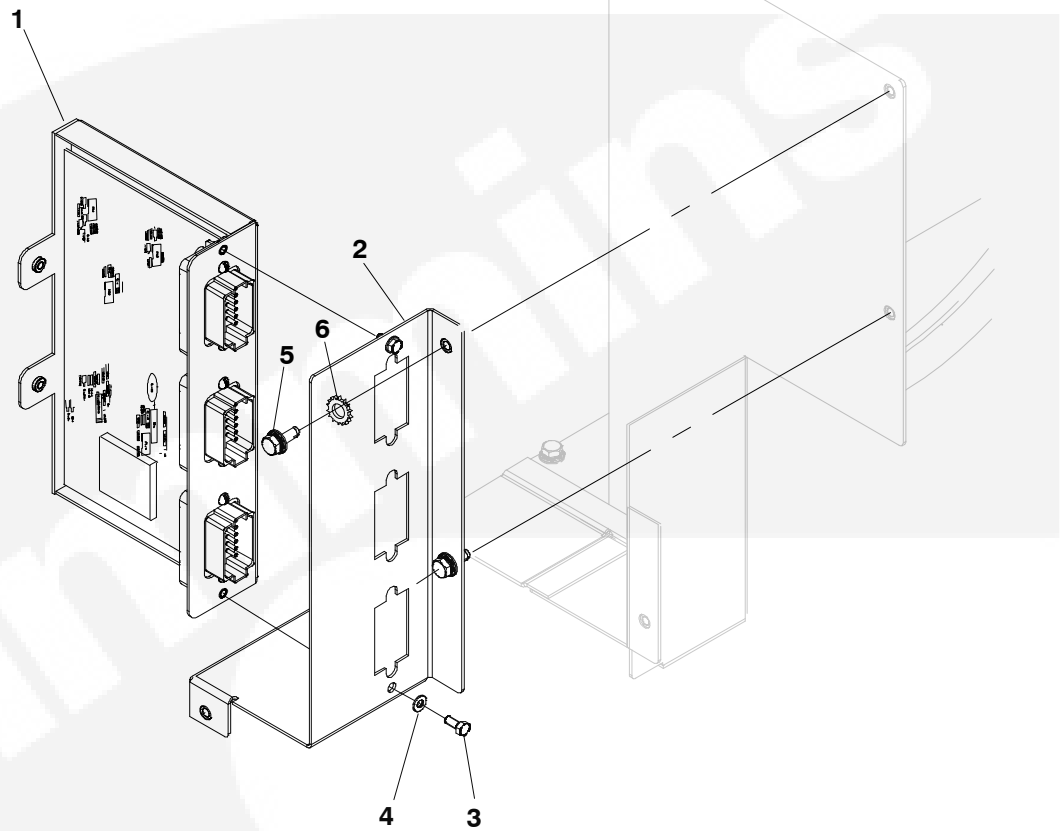
Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator, Generator (Includes Grommet)	17			*Bolt, Hex Head Cap MDKBD, MDKBE (.50-13 UMC x 1.0")
	220-4618-02	1	Single Phase MDKBD		800-3010-64	6	
	220-4618-04	1	MDKBE		800-3017-52	6	MDKBF (M12 x 1.75 20mm)
	220-4618-06	1	MDKBF	18			*Washer, Flat MDKBD, MDKBE (.50")
			Three Phase		526-0399-44	6	MDKBF (M12)
	220-4619-02	1	MDKBD		526-0399-73	6	
	220-4619-04	1	MDKBE	19			*Disc, Drive MDKBD, MDKBE
	220-4619-06	1	MDKBF		232-3672-03	1	MDKBF
2	508-1073	1	Grommet		232-3945	1	
3	234-0935-02	2	Baffle, Air (3 Phase)	20	232-3826-02	1	*Spacer, Fan
4	526-0174	12	Washer, Flat (3/8)	21	205-0229-02	1	*Fan, Generator
5	800-0051	12	Screw, Hex Head Cap (3/8-16 x 1-1/4)	22			*Hub, Drive MDKBD, MDKBE
6	232-3706-02	4	Retainer, Endbell		232-3705-01	1	MDKBF
7	815-0935	4	Screw, Hex Head Thread Forming (1/4-20 x 2")		232-2815-04	1	
8	853-0013	4	Washer, ET Lock (1/4")	23	201-3515-02		*Excitor, Rotor, Wound
9	220-4413-02	1	Stator, Wound	24	358-0069	1	*Rectifier (Positive)
10	211-0465-02	1	Endbell	25	358-0070	1	*Rectifier (Negative)
11	509-0094	1	Seal, O'Ring	26	526-0008	10	*Washer, Flat (#10)
12	526-0399-42	12	Washer, Flat (3/8)	27	870-0131	6	*Nut, ET Hex (.190-32)
13	850-0114-06	4	Washer, Lock (5/16")	28	526-0399	8	*Washer, Flat (#10)
14	800-0310-27	4	Screw, Hex Head Cap (5/16"-18 x 2-1/2")	29	853-0008	4	*Washer, ET Lock (.190")
15	800-0310-36	8	Screw, Hex Head Cap (3/8-16 x 1)	30	813-0100	4	*Screw, Pan Head Machine (.190-32 x .50")
16			Rotor Assy, Generator (Includes Parts Marked *)	31	510-0112	1	*Bearing, Ball
	201-3517-02	1	MDKBD	* - Parts Included in Generator Rotor Assy.			
	201-3517-04	1	MKDBE				
	201-3517-06	1	MDKBF				

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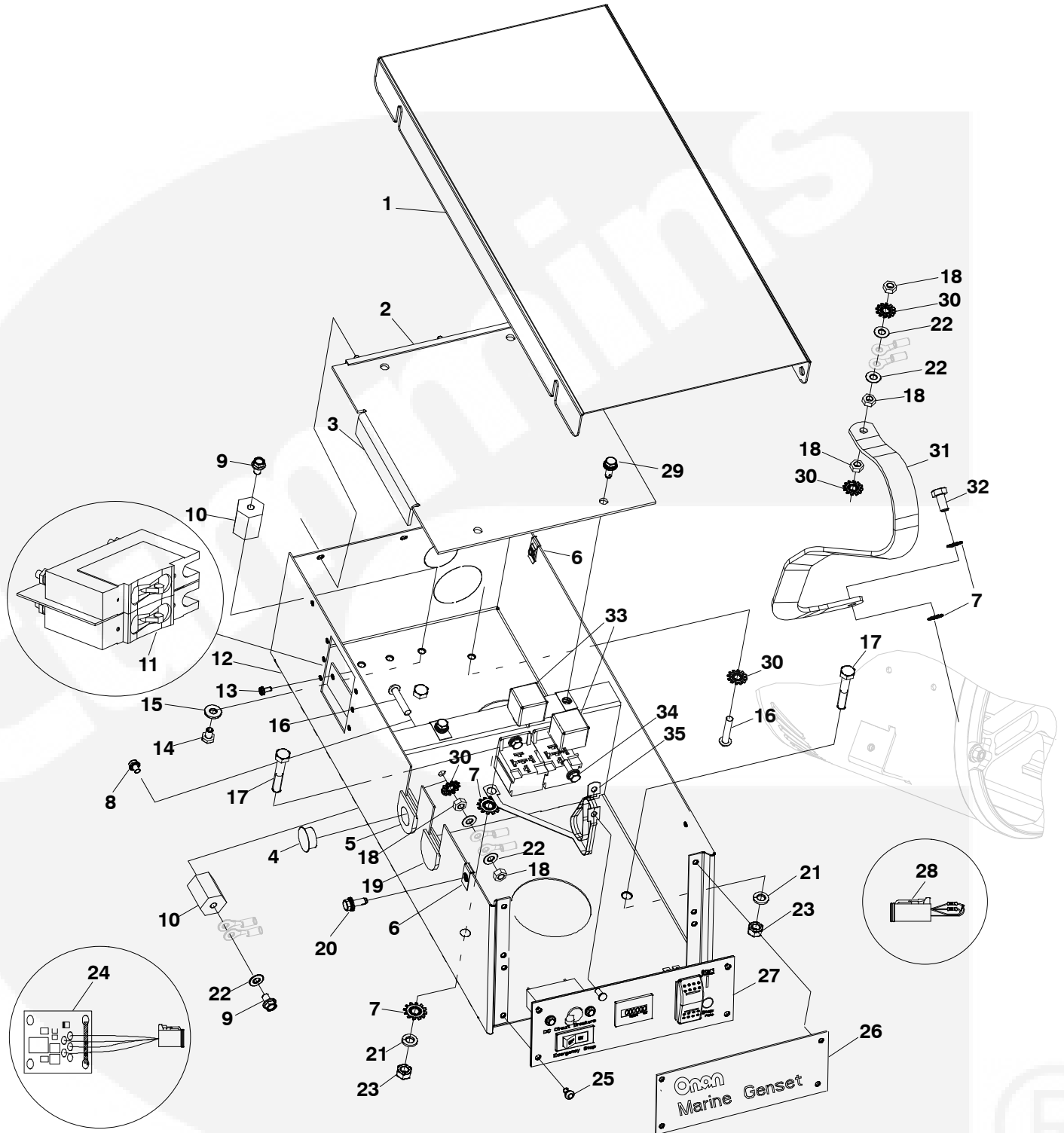


PCB Mounting



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1			PCB, Control	2	405-6522-03	1	Panel, UMC Mounting
	327-1386	1	Single Phase Spec A	3	800-3042	2	Screw, Hex (M4 x 10)
	327-1412	1	Signal and Three Phase Spec A	4	526-2050	2	Washer, Flat (M4)
	327-1533	1	Single Phase Begin Spec B	5	800-6033	2	Screw, Hex Head Sems Stainless (M6 x 1 x 16mm)
	327-1534	1	Signal and Three Phase Begin Spec B	6	853-2006	2	Washer, ET (M6)

Control Box



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-0583	1	Kit, Blank Panel 12V (Includes Parts Mark *)	2	332-3750	1	Guide, Card
	541-0584	1	Kit, Blank Panel 24V (includes Parts Marked +)	3	319-4404	1	Cover, Small Control
1	319-4370-03	1	Cover, Large Control	4	517-0136	1	Plug, Hole
				5	508-1105	1	Grommet, Remote

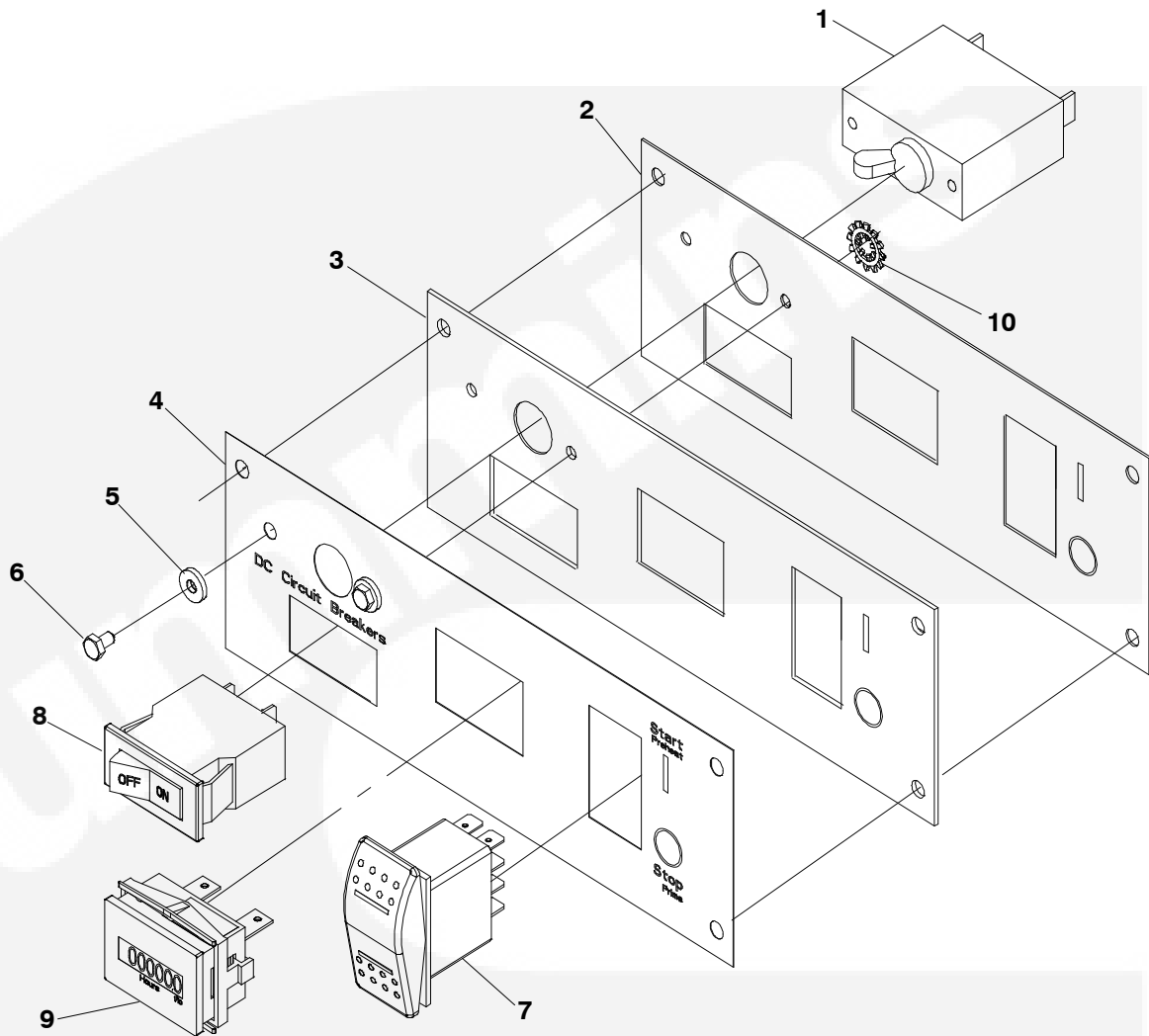
Control Box

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	870-2228	6	Nut, Clip	13			Screw, Phillips Head (6-32 x .31")
7	856-0008	2	Washer, EIT (5/16")				Single Phase
8	821-0008	1	Screw, Locking Head (Isolated Gnd Only)		815-0550-01	4	Three Phase
9			Screw, Hex Head Flanged (1/4-20 x .375")	14			Screw, Hex Cap (1/4-20 x .375")
	821-0009	2	Single Phase Negative Gnd		800-0310-01	2	Single Phase
	821-0009	3	Three Phase Negative Gnd		800-0310-01	3	Three Phase
	821-0009	3	Single Phase Isolated Gnd	15			Washer, Flat (1/4-20)
	821-0009	4	Three Phase Isolated Gnd		526-0399-13	2	Single Phase
10			Standoff, Insulation		526-0399-13	3	Three Phase
	332-2370	2	Single Phase Negative Gnd	16			Screw, Brass (14-20 x 1.25")
	332-2370	3	Three Phase Negative Gnd		810-0155	2	Neg, Ground
	332-2370	3	Single Phase Isolated Gnd		810-0155	1	Iso, Ground
	332-2370	4	Three Phase Isolated Gnd	17	800-6062	3	Bolt, Hex Stainless (M8 x 1.25 x 45mm)
11			Breaker, Circuit MDKBD	18			Nut, Brass (1/4-20)
			2 Pole.(120/240V)		871-0016	5	Negative Ground
	1689-09	1	55 Amp		871-0016	3	Isolated Ground
	320-1689-10	1	60 Amp	19	508-1105-01	1	Grommet, Remote
	320-1689-12	1	70 Amp	20	821-6006-01	6	Screw, Sims Stainless (M6 x 1 x 16mm)
			3 Pole.(240V)	21	850-2058	3	Washer, Split Lock Stainless (M8)
	320-1836-07	1	45 Amp				Washer, Flat Brass (1/4")
	320-1836-09	1	55 Amp	22			Negative Ground
			3 Pole.(277/480V)		526-0052	4	Isolated Ground
	320-1891-01	1	25 Amp		526-0052	3	Nut, Hex Stainless (M8 x 1.25)
	320-1891-02	1	30 Amp	23	860-2058	3	+ PCB, Regulator (Single Phase 24V PCB 327-1386 only)
			MDKBE	24	327-1268	1	Rivet, Drive (Plastic) (1/4-20 x .31) Iso Ground
			1 Pole.(120/240V)	25	818-1150-03	8	*+ Panel Assy, Blank (Includes Label Washer and Nuts)
	320-1690-12	1	75 Amp				Panel, Control (See Separate Page For Components)
			2 Pole.(120/240V)	26	300-5474	1	12VDC
	320-1689-10	1	60 Amp		300-5476-03	1	24VDC
	320-1689-12	1	70 Amp	27			*Plug, Resistor
	320-1689-13	1	75 Amp		323-1933	1	12VDC
	320-1689-15	1	85 Amp		323-2072	1	24VDC
	320-1689-17	1	95 Amp	28			Screw, Hex Sems Stainless (M6 x 1 x 16mm)
			3 Pole.(240V)		821-6006-01	6	Washer, Lock (1/4")
	320-1836-09	1	55 Amp	29			Negative Ground
	320-1836-11	1	65 Amp		856-0006	4	Isolated Ground
	320-1836-12	1	70 Amp	30			Strap, Bond
			3 Pole.(277/480V)		856-0006	3	Screw, Hex Cap (M8 x 1.25 x 16mm)
	320-1891-02	1	25 Amp	31	337-2795	1	Relay (SPDT)
	320-1891-04	1	35 Amp	32	800-3017-18	1	12 VDC (K3, K4)
			MDKBF				24 VDC (K3)
			1 Pole.(120/240V)	33			24 VDC (K4)
	320-1690-14	1	95 Amp	34	821-6001-03	2	Screw, Hex Head Sems (M5 x 0.8 x 30mm)
			2 Pole.(120/240V)	35	337-3508	1	Strap, Bond
	320-1689-15	1	85 Amp				
	320-1689-16	1	90 Amp				
	320-1689-17	1	95 Amp				
	320-1689-18	1	100 Amp				
			3 Pole.(240V)				
	320-1836-12	1	70 Amp				
	320-1836-13	1	75 Amp				
	320-1836-14	1	80 Amp				
	320-1836-15	1	85 Amp				
	320-1836-16	1	90 Amp				
			3 Pole.(277/480V)				
	320-1891-07	1	45 Amp				
	320-1891-08	1	40 Amp				
12	319-4367-03	1	Box, Control				

* - Parts Included in Panel Kit 12V.

+ - Parts Included in Panel Kit 24V.

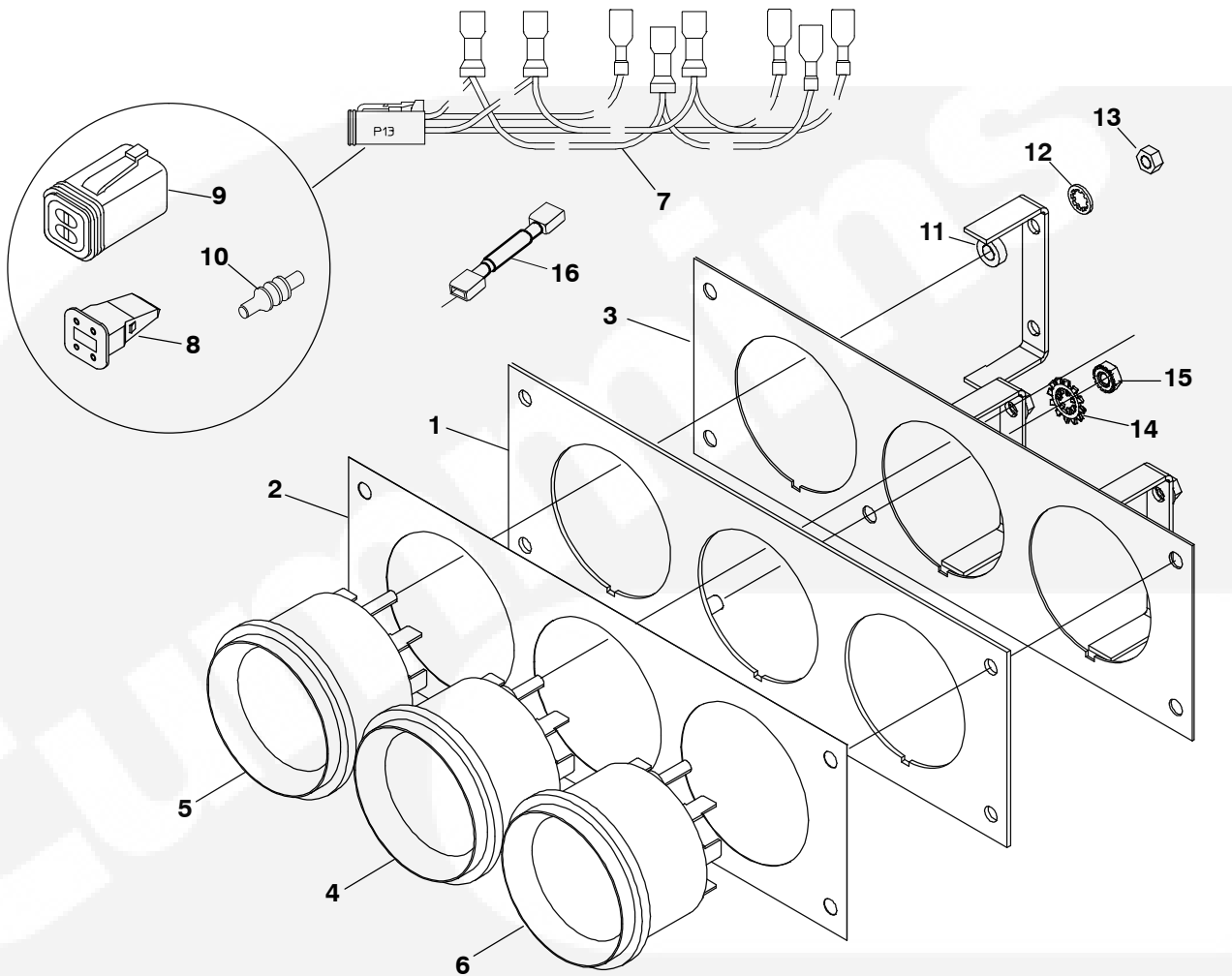
Control Panel



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Assy, Panel (Used on Control Box)	308-1102	1	24VDC	
	300-5476-03	1	12V	308-1101	1	12VDC	
	300-5476-04	1	24V	8	320-1140	1	Breaker, Circuit (15 Amp)
1	320-1862-01	1	Breaker, Circuit (50 Amp)	9	302-2048	1	Meter, Hour
2	319-4467-02	1	Panel, Control (Ground)	10	856-0003	2	Washer, EIT Lock (#10)
3	319-4368-06	1	Panel, Control				
4	98-7781	1	Label, Control				
5	526-0399-05	2	Washer, Flat (#6)				
6	800-0309-10	2	Screw, Hex Head (6-32 x 1/4")				
7			Switch, Rocker SPDT				

* - See Control Box for Location.

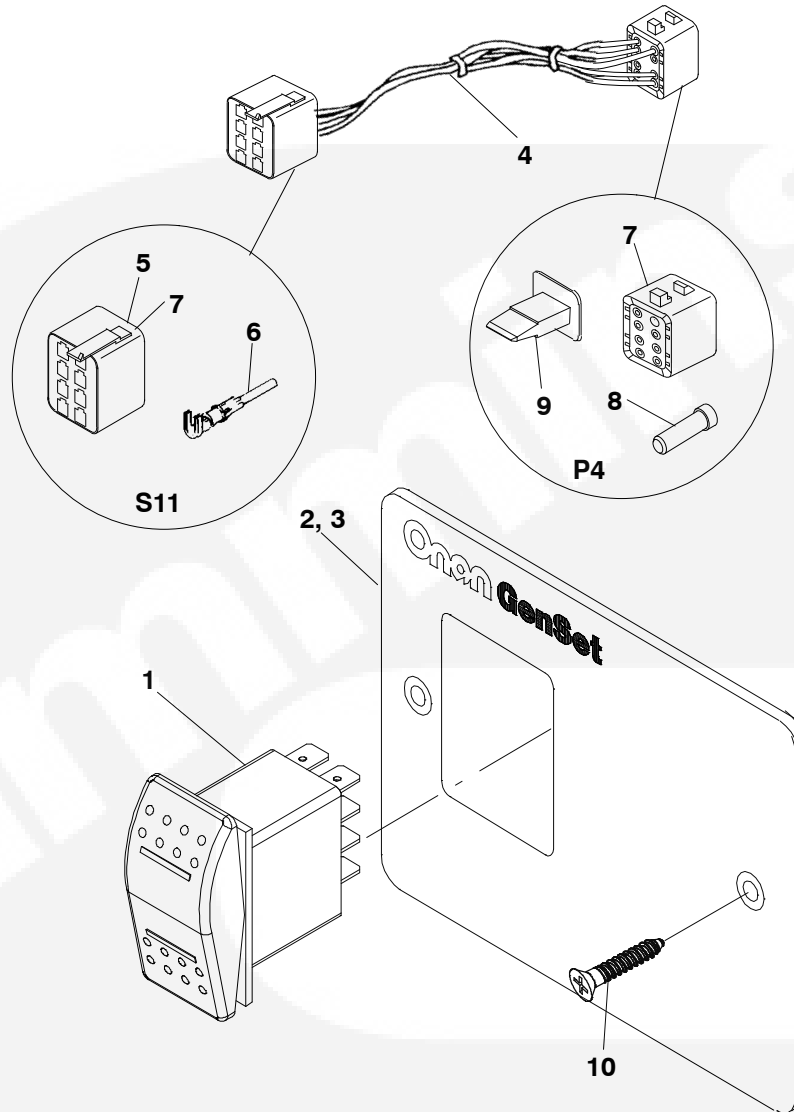
Gauge Panel Components



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

* - Parts Included in Gauge Panel Kit.

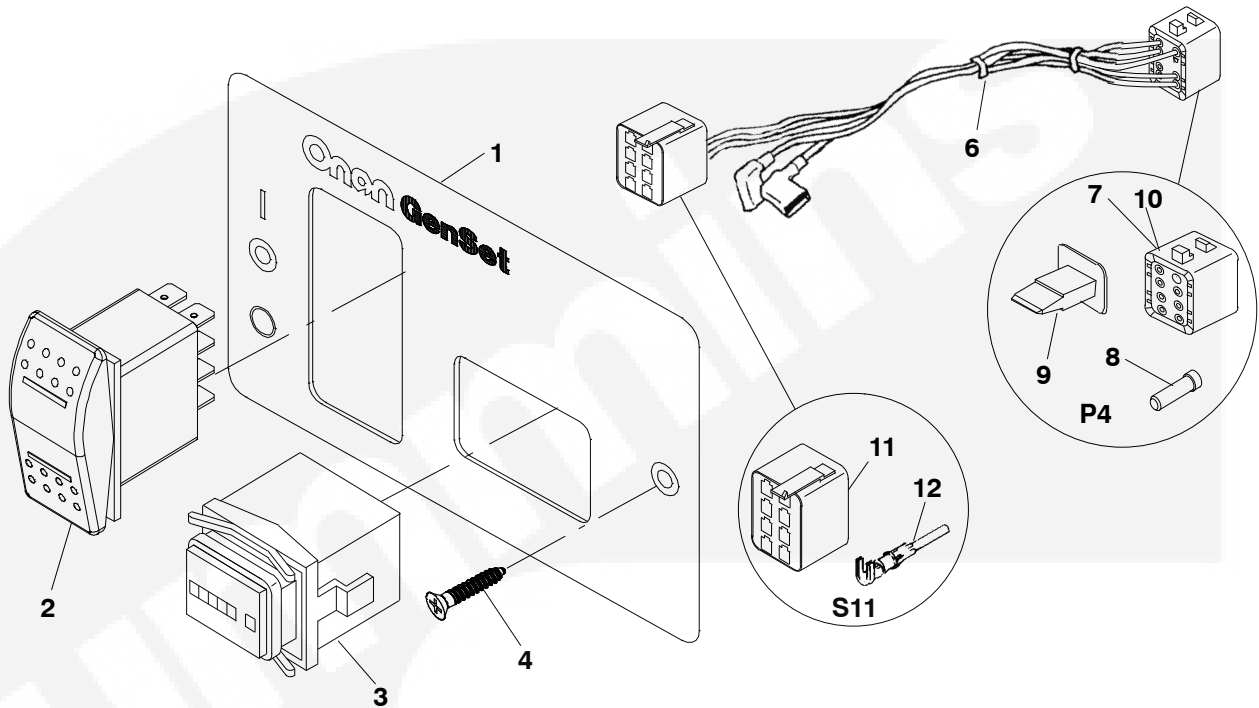
Remote Control Panel



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

+ - Parts Included in Remote Switch Harness.
- Parts Included in Remote
* - Parts Included in Remote Panel Harness.

Remote Switch Panel w/Hour Meter

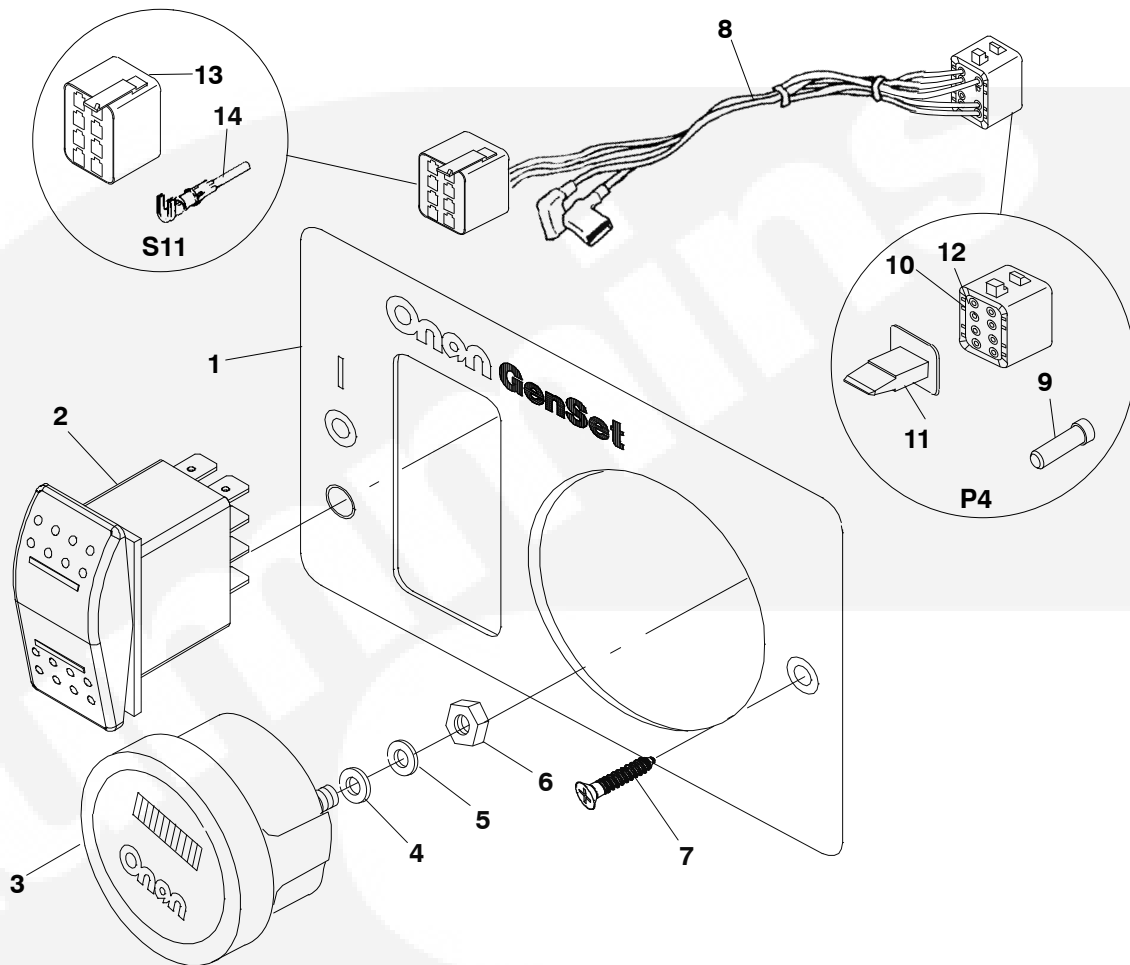


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	300-5727-01	1	Kit, Panel, Remote
	300-5727-02	1	12V
	300-5727-02	1	24V
1	319-4998	1	Panel, Remote Printed
2	308-1101	1	Switch, Rocker (S11)
	308-1101	1	12V
	308-1102	1	24V
3	302-2048	1	Meter, Hour (M11)
4	815-0910	2	Screw, Wood (#6 x 1)
5	98-8081	1	Label,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

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

* - Parts Included in Remote Panel Wiring Harness.

Deluxe Remote Control Panel w/Volt Meter

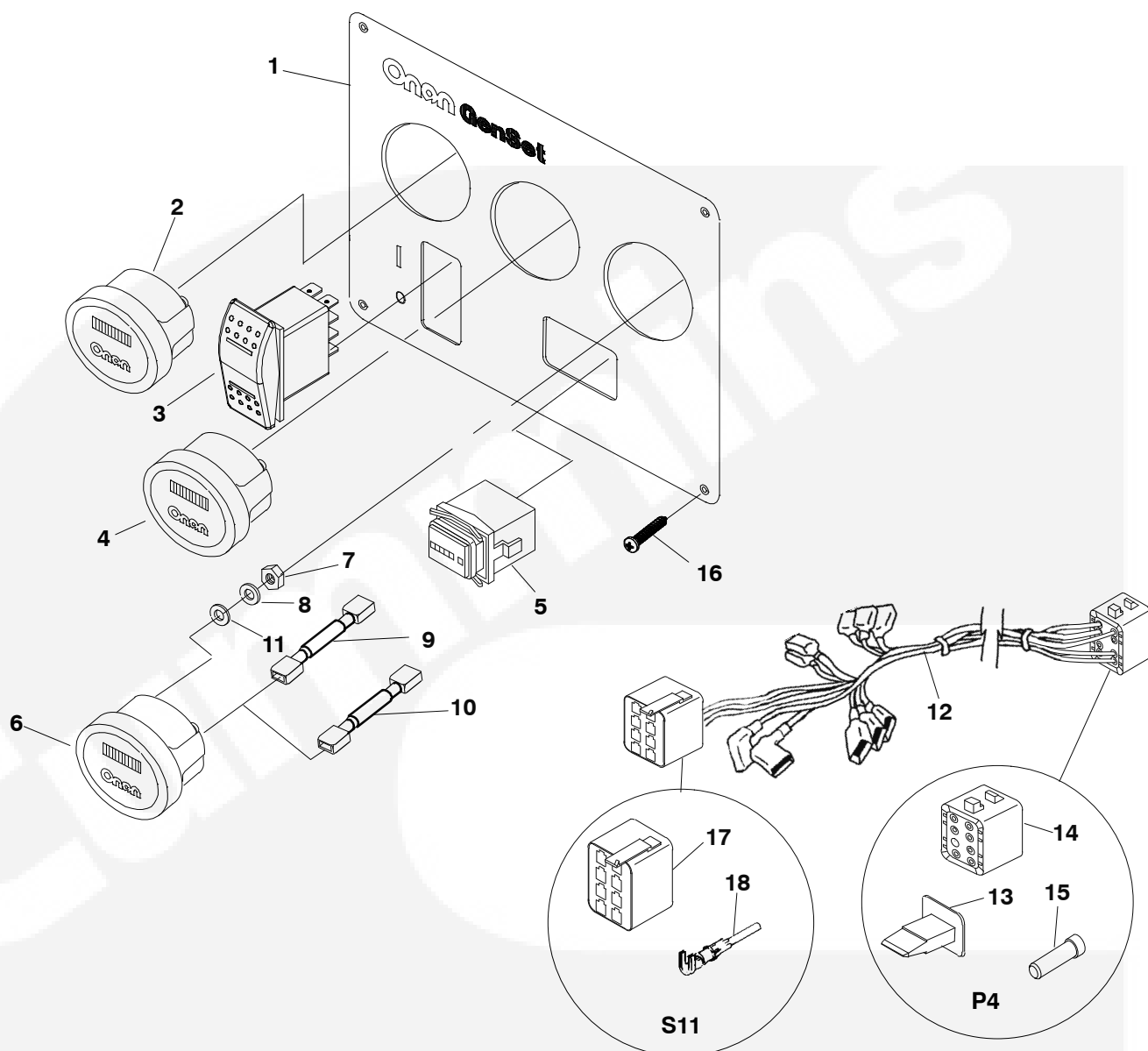


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	300-5726-01	1	Kit, Remote Panel 12V
	300-5726-02	1	24V
1	319-4997	1	Panel, Remote Printed
2			Switch, Rocker (S11)
	308-1101	1	12V
	308-1102	1	24V
3			Meter, Volt (M14)
	302-2051-01	1	12V (8-18V)
	302-2051-02	1	24V (16-36V)
4	526-0409	2	Washer, Nylon
5	850-0114-51	2	Washer, lock
6	860-2025	2	Nut, Hex (M4 x .7)
7	815-0910	2	Screw, Wood (#6 x 1)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
8	338-3990	1	Harness, Remote Panel (Includes Parts Marked *)
9	323-1541	1	*Plug, (8 Pin) (J4)
10	323-1591	2	*Plug, Seal
11	323-1543	1	*Wedge, Plug (8 Pin)
12	323-1492	6	*Pin, Contact
13	308-1019	1	*Connector, Switch (S11)
14	332-2890	6	*Terminal, Receptacle (.25")
15	98-8092	1	Label, Instruction
16	98-8081	1	Label, Warning

* - Parts Included in Remote Panel Wiring Harness.

Remote Switch and Gauge Panel

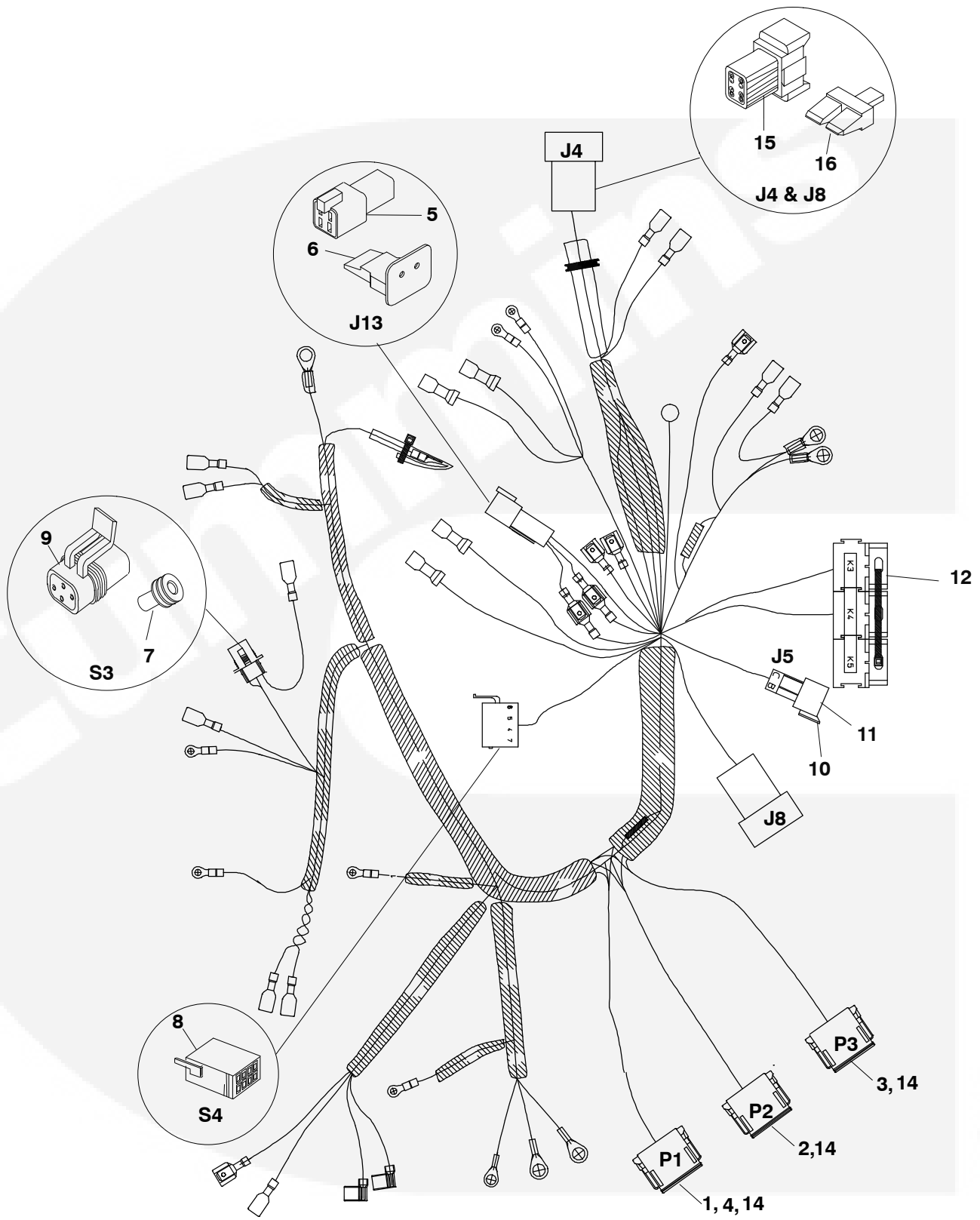


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	541-1207-01	1	Kit, Panel, Remote Gauge 12V
	541-1207-02	1	24V
1	319-3254-02	1	Panel, Remote
2	302-2088	1	Gauge, Oil Pressure (M12)
3	308-1101	1	Switch, Rocker (SPDT) (S11) 12V Sets
	308-1102	1	24V Sets
4	302-2087	1	Gauge, Water Temperature (M13)
5	302-2048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

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

+ - Parts Included in Remote Panel Harness

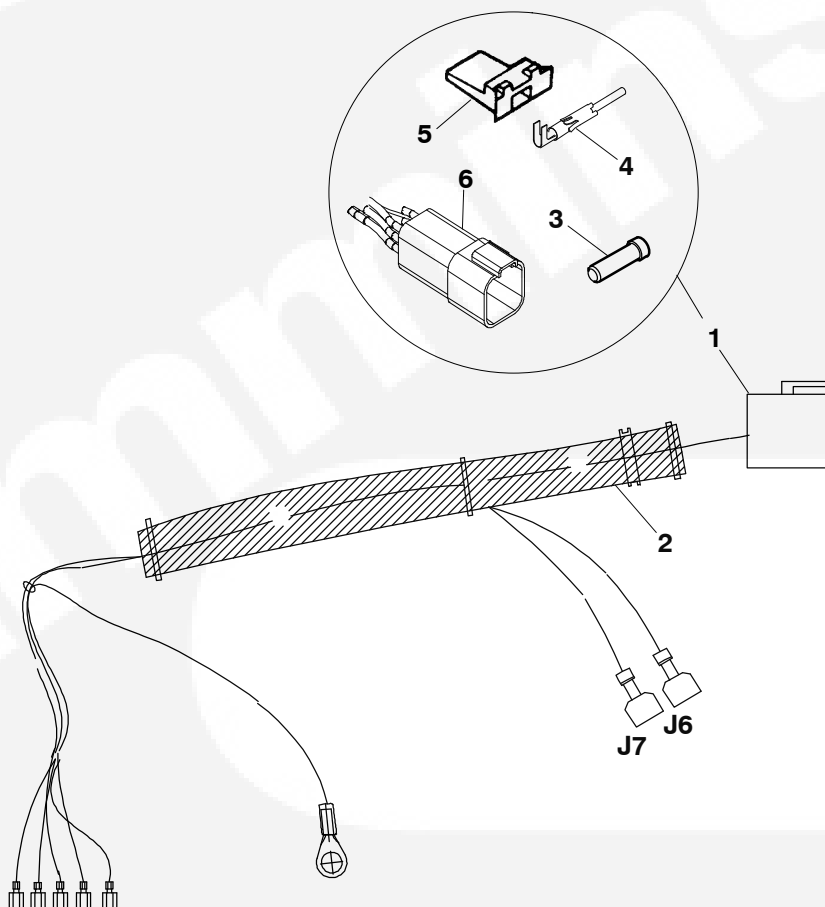
Control Harness



Control Harness

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	338-4091	1	Harness, Control	9	323-1765	1	Connector, Housing 4 Pin (S3)
1	323-1582-06	1	Plug (12 Pin, Black P1)	10	323-1494	1	Connector, Receptacle 3 Pin
2	323-1582-07	1	Plug (12 Pin, Gray P2)	11	323-1502	1	Wedge
3	323-1582-05	1	Plug (12 Pin, Green P3)	12	323-1563	1	Socket, Relay
4	323-1591	AR	Plug (P1)	13	332-3388	3	Relay
5	323-1549	1	Receptacle 4 Pin (J9)	14	323-1583	3	Plug, Wedge 12 Pin, P1, P2, P3
6	323-1547	1	Receptacle, Wedge (J9)	15	323-1542	2	Connector, Receptacle 8 Pin (J4, J8)
7	323-1708	AR	Seal,Cable(S3)	16	323-1544	2	Receptacle, Wedge(J4, J8)
8	308-1019	1	Switch, Connector (S4)				

Auxiliary Control Harness

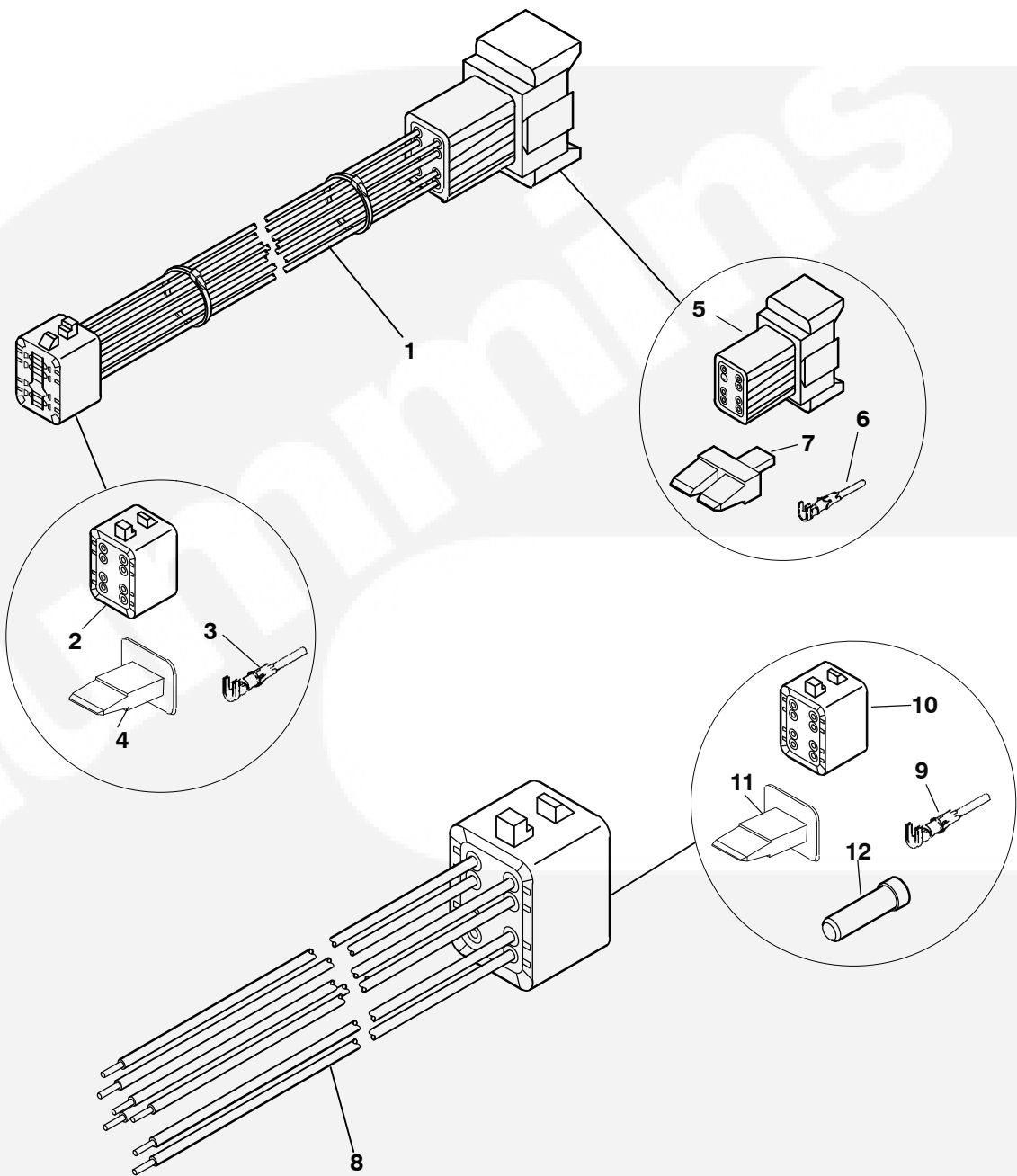


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	338-4213	1	Harness, Auxiliary Control (Includes Parts Marked #)
2	508-1105	1	Grommet
3	323-1591	1	Plug, Connector
4	323-1491	5	Terminal, Pin
5	323-1626	1	Wedge, Receptacle (6 Pin)
6	323-1625	1	Connector, Receptacle (6 Pin)

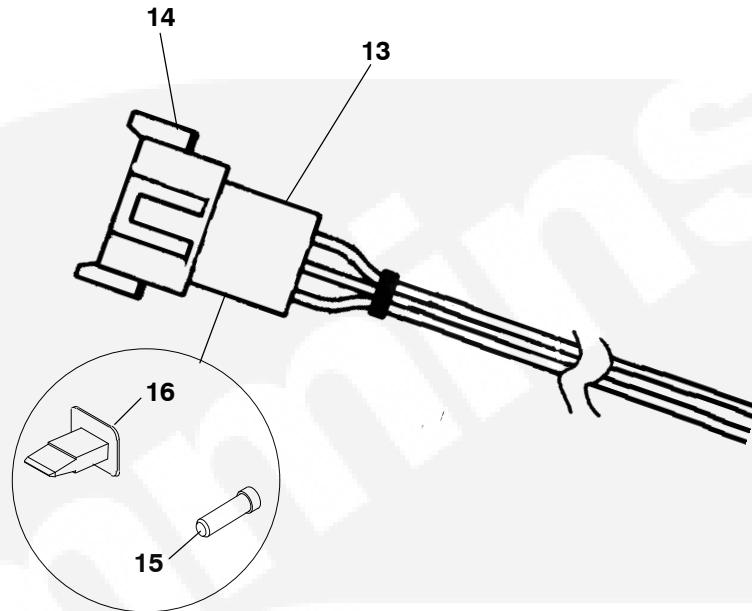
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Wiring Harnesses



Wiring Harnesses

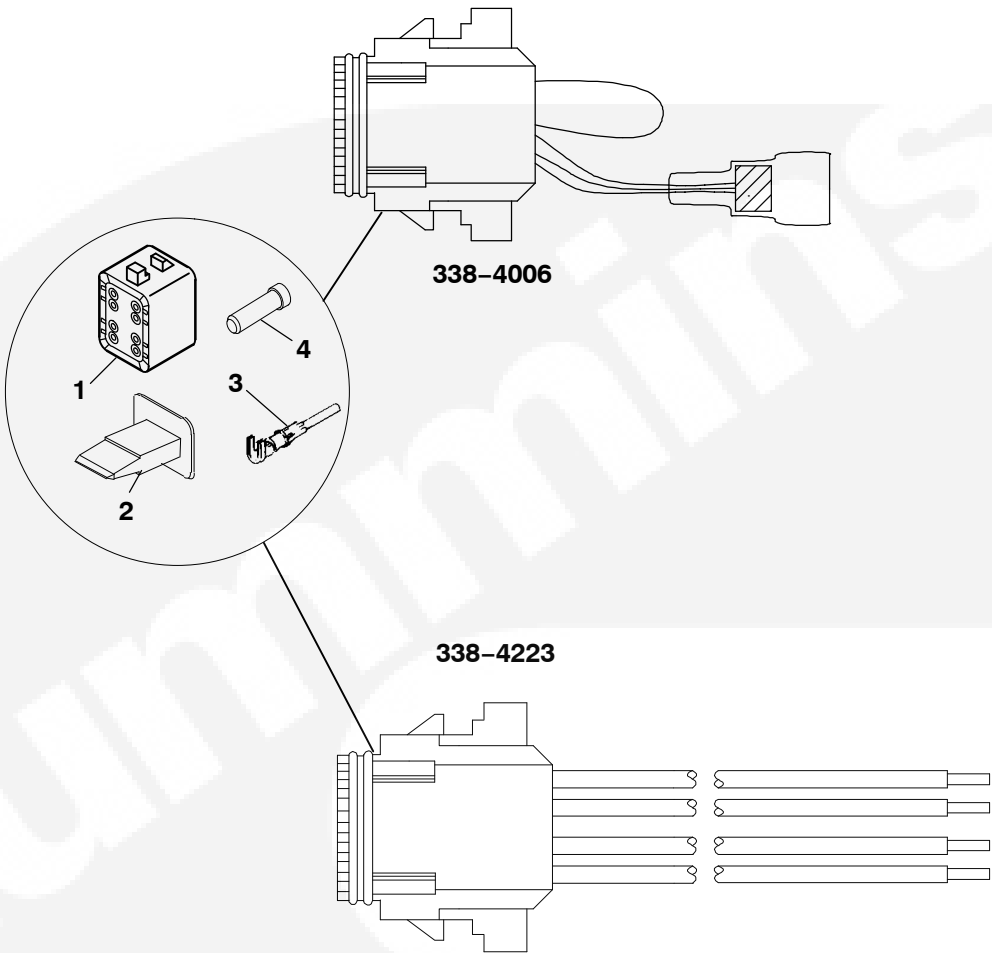


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1			Harness, Remote Extension (Includes Parts Marked #)
	338-3167	1	15 feet
	338-3168	1	25 feet
	338-3169	1	45 feet
	338-3169-01	1	75 feet
	338-3169-02	1	100 feet
	338-3169-03	1	150 feet
2	323-1541	1	# Plug (8 Pin)
3	323-1492	8	# Terminal, Socket
4	323-1543	1	# Wedge, Plug (8 Pin)
5	323-1542	1	# Receptacle, (8 Pin)
6	323-1491	8	# Terminal, Pin
7	323-1544	1	# Wedge, Receptacle (8 Pin)
8	338-3098	1	Harness, Pigtail (8") (Includes Parts Marked *)
9	323-1492	7	* Terminal, Socket

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
10	323-1541	1	* Plug (8 Pin)
11	323-1543	1	* Wedge, Plug (8 Pin)
12	323-1591	1	* Plug Connector
13	338-4017	1	Harness, Pigtail (Includes Parts Marked @)
14	323-1542	1	@ Connector, Receptacle (8 Pin)
15	323-1491	AR	+ Terminal, Pin
16	323-1544	2	@ Wedge, Lock (8 Pin)

- Parts Included in Remote Extension Harness.
 * - Parts Included in Custom Pigtail Harness.
 ° - Parts Included in Adapter Harness.
 .+ - Parts Included in Junction Harness.
 .@ - Parts Included in Pigtail Harness.

Plug Harness and Remote Panel Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Harness, Plug				MDKBF
			MDKBD				Single Phase
			Single Phase				12 VDC
338-4006-08	1	12 VDC		338-4006-12	1	24 VDC	
338-4006-07	1	24 VDC		338-4006-11	1	Three Phase	
			Three Phase				12 VDC
338-4006-13	1	12 VDC		338-4006-17	1	24 VDC	
338-4006-14	1	24 VDC		338-4006-18	1		
			MDKBE	338-4223	1	Harness, Remote Panel	
			Single Phase	1	323-1541	1	Plug (8 Pin)
338-4006-10	1	12 VDC		2	323-1543	1	Wedge, Plug (8Pin)
338-4006-09	1	24 VDC		3	323-1492	AR	Terminal, Socket
			Three Phase	4	323-1591	AR	Plug, Seal
338-4006-15	1	12 VDC		5	323-1591	AR	Plug, Seal
338-4006-16	1	24 VDC					

Labels, Kits

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	98-2235-02	1	Label, Ground		98-7850	1	Label, E-QD (Housed)
	98-4798-01	1	Label, Warning (Unhoused)		98-7858	1	Label, Schematic
	98-5161	1	Label, Coolant (Housed)		98-7917	1	Label, Information (K Relays)
	98-5338	1	Label, No Step				Label, Information
	98-5347	1	Label, Danger		98-7963	1	Rear Bulkhead Connector,
	98-5667	1	Label, Warning		98-7975	1	Rear Bulkhead Connector,
	98-5755	1	Label, Warning		98-7976	1	Front Bulkhead Connector
	98-6074-02	1	Label, Warning		98-7977	1	Front Bulkhead Connector
	98-6388-01	1	Label, Phone Information		98-7984-01	1	Label, Information (PTO)
	98-6989	1	Label, Barcode		98-7984-02	1	Label, Information (PTO)
	98-6995	1	Label, Warning (Housed)		98-7985-01	1	Label, Information (PTO)
	98-6996	1	Label, (Housed)		98-7985-02	1	Label, Information (PTO)
	98-6997	1	Label, Lifting Eye (Housed)		98-8002	1	Label, Information (Service)
	98-7185	1	Label, Barcode		98-8040	1	Label, Information (Reconnect)
	98-7241	1	Label, CO Warning		541-0853	1	Kit, Label (Bulkhead Connector)
	98-7369	1	Label, Model Identification				
	98-7781	1	Label, Controls				
	98-7782	1	Label, Controls				
	98-7783	1	Label, Warning				
	98-7828	1	Label, Emissions (MDKBD)				
	98-7845	1	Label, Control				

*- 541-0853 Includes 98-7975, 98-7977, 98-7984-01 and 98-7985-01.

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
098-2235-02, 107		100-3740-02, 12		130-4567, 59		149-1949, 54	
098-4798-01, 78 , 107		100-3741-01, 13		130-4628-03, 59		149-1952, 54	
098-5161, 107		100-3741-02, 13		130-4652-03, 78		149-1953, 54	
098-5338, 107		100-3893-01, 12		130-4714-03, 78		149-2045, 54	
098-5347, 107		100-3893-02, 12		130-4881-02, 64		149-2046, 54	
098-5667, 107		100-3894-01, 12		130-4960, 59		149-2047, 54	
098-5755, 107		100-3894-02, 12		130-4961, 59		149-2106, 51	
098-6074-02, 107		100-3895-01, 13		130-4962-01, 59		149-2312, 53	
098-6388-01, 107		100-3895-02, 13		130-4979, 59		149-2313, 53	
098-6989, 107		101-0811, 18		130-5006-02, 59		149-2489-02, 52	
098-6995, 107		101-0821, 18		130-5007-02, 59		149-2634-01, 51	
098-6996, 107		102-1448-02, 67		130-5012, 59		149-2635, 51	
098-6997, 107		102-1449-01, 66		130-5387-01, 59 , 61		149-2646, 51	
098-7185, 107		104-1666, 18		130-5469-03, 78		149-2654, 52	
098-7241, 107		104-1927, 18		130-5470-03, 78		149-2655, 52	
098-7369, 107		104-1929, 18		130-5471-03, 78		149-2703-03, 51	
098-7781, 94 , 107		105-0737, 23 , 24		132-0293, 59 , 62		150-0280, 25	
098-7782, 107		105-0738, 23 , 24		132-0346, 59 , 61		150-0740, 23 , 24	
098-7783, 107		105-0739, 23 , 24		132-0348, 59 , 62		150-2798, 23 , 24 , 25	
098-7828, 107		105-0740, 25		132-0349, 59 , 62		150-2801, 27	
098-7840, 99		105-0741, 23 , 24 , 25		132-0350, 61		150-2802, 27	
098-7845, 95 , 107		110-2752, 37		132-0385, 62		150-2803, 27	
098-7850, 107		110-3584, 36		132-0386, 62		150-2804, 27	
098-7853, 99		120-1319, 52		132-0387, 62		150-2805, 27	
098-7858, 107		120-1337-02, 66		132-0388, 62		150-2880, 23 , 24	
098-7917, 107		122-0810, 43		132-0389, 62		152-0370, 26	
098-7963, 107		122-0813, 52		132-0390, 62		152-0371, 26	
098-7975, 107		130-3570, 65		132-0391, 62		154-2887, 70	
098-7976, 107		130-3571, 65		132-0392, 62		154-2891, 71 , 72	
098-7977, 107		130-3572, 65		132-0393, 62		154-2915, 70	
098-7984-01, 107		130-3573, 65		132-0394, 62		154-2963-02, 72	
098-7984-02, 107		130-3574, 65		132-0413, 59 , 61		154-3002, 70	
098-7985-01, 107		130-3721, 64		132-0414, 62		154-3163, 71	
098-7985-02, 107		130-4234-03, 59		132-0416, 62		155-1002, 74	
098-8002, 107		130-4381-03, 78		132-0417, 62		155-2029, 74	
098-8040, 107		130-4382-03, 78		140-2859, 69		155-2030, 74	
098-8081, 96 , 97 , 98		130-4411-03, 78		140-3021, 69		155-2063-09, 73	
098-8092, 96 , 98		130-4434, 59		140-3048, 69		155-2064-09, 73	
100-3739-01, 12		130-4491-03, 78		147-0882, 23 , 24 , 25		155-2355-04, 73	
100-3739-02, 12		130-4492-03, 78		149-1908-05, 53 , 54		155-2975, 70	
100-3740-01, 12		130-4566, 59		149-1914-05, 54		155-2980, 72	
						155-2981, 72	

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>
155-3061, 71 , 72		185-2390, 26 , 43		185-5775, 47 , 48		185-5872, 43	
155-3068-02, 72		185-2392, 27		185-5777, 47		185-5873, 43	
155-3069-02, 72		185-2400, 16		185-5781, 48		185-5874, 43	
155-3087, 63		185-2402, 30 , 31 , 40 , 69		185-5782, 47		185-5875, 43	
155-3094, 72		185-2403, 21 , 22		185-5783, 47 , 48		185-5876, 43	
155-3148-02, 61		185-2404, 21 , 22 , 44		185-5784, 47 , 48		185-5877, 43	
155-3216, 74		185-2405, 43		185-5785, 47 , 48		185-5878, 43	
155-3217, 74		185-2412, 34 , 35		185-5786, 47 , 48		185-5879, 43	
155-3218, 74		185-2461, 28 , 29		185-5787, 47 , 48		185-5880, 43	
155-3220, 74		185-2563, 66		185-5788, 47 , 48		185-5887, 41	
155-3221, 74		185-2564, 45 , 46		185-5789, 47 , 48		185-5888, 41 , 42	
155-3222, 74		185-2565, 40		185-5790, 47 , 48		185-5889, 21 , 22	
155-3223, 74		185-2578, 30 , 31		185-5791, 47		185-5890, 21 , 22	
155-3224, 74		185-2777, 37 , 43		185-5826, 40		185-5892, 21 , 22	
155-3284, 63 , 71		185-2961, 47 , 48		185-5833, 43		185-5893, 21 , 22	
184-0071, 50		185-3009, 23 , 24		185-5837, 12 , 13		185-5895, 21	
185-2094, 12 , 13		185-3033, 26		185-5839, 12		185-5896, 21 , 22	
185-2095, 12 , 13 , 34 , 35		185-3078, 66		185-5840, 12 , 13		185-5897, 21 , 22	
185-2096, 66		185-4255, 26 , 43 , 45 , 46		185-5841, 12 , 13		185-5898, 21 , 22	
185-2105, 26		185-5126, 43		185-5842, 12 , 13		185-5899, 21 , 22	
185-2106, 30 , 34		185-5337, 38 , 39		185-5843, 12 , 13 , 43		185-5900, 16	
185-2125, 12 , 13		185-5407, 42 , 43		185-5844, 12 , 13		185-5901, 16	
185-2188, 34 , 35		185-5415, 26		185-5845, 12 , 13		185-5902, 16	
185-2233, 12 , 13		185-5443, 40 , 43		185-5846, 12 , 13		185-5903, 16	
185-2234, 12 , 13		185-5445, 45 , 46		185-5847, 12 , 13		185-5904, 16	
185-2284, 26		185-5447, 46		185-5848, 12		185-5905, 14 , 16 , 45	
185-2338, 12 , 13 , 28 , 29 , 41 , 42		185-5476, 67		185-5849, 12 , 13		185-5906, 16	
185-2343, 66		185-5495, 67		185-5850, 12		185-5907, 16	
185-2345, 38 , 39		185-5505, 43		185-5851, 12		185-5908, 16	
185-2349, 42 , 43		185-5529, 26		185-5854, 66		185-5909, 16	
185-2350, 12 , 13		185-5558, 16		185-5855, 66		185-5910, 16	
185-2351, 28 , 29		185-5612, 38 , 39		185-5860, 34		185-5911, 16	
185-2352, 12 , 13		185-5615, 39		185-5861, 34 , 35		185-5912, 16	
185-2362, 31 , 40		185-5676, 12 , 13 , 25		185-5862, 34 , 35		185-5913, 17	
185-2365, 40		185-5768, 47 , 48		185-5863, 34 , 35		185-5914, 17	
185-2367, 30 , 31 , 36 , 37 , 40 , 44		185-5769, 47 , 48		185-5865, 34 , 35		185-5915, 17	
185-2380, 45		185-5770, 47		185-5866, 34		185-5916, 17	
185-2385, 38 , 39		185-5771, 47 , 48		185-5867, 34 , 35		185-5917, 17	
185-2388, 29		185-5772, 47		185-5868, 34 , 35		185-5921, 17	
185-2389, 28 , 29 , 43 , 44		185-5773, 47		185-5869, 43		185-5922, 17	
		185-5774, 47 , 48		185-5870, 43		185-5923, 14	
						185-5924, 14 , 15	

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>
185-5925, 14		185-6004, 40		185-6067, 16		185-6145, 32 , 33	
185-5926, 14		185-6005, 40		185-6074, 17		185-6146, 32 , 33	
185-5927, 14		185-6006, 44		185-6075, 17		185-6147, 32 , 33	
185-5928, 14		185-6007, 44		185-6076, 17		185-6148, 32 , 33	
185-5929, 14 , 15		185-6010, 44		185-6078, 43		185-6150, 32	
185-5930, 14		185-6011, 44		185-6079, 15		185-6151, 32 , 33	
185-5931, 14		185-6012, 44		185-6080, 15		185-6152, 32 , 33	
185-5933, 14		185-6013, 44		185-6081, 15		185-6153, 32 , 33	
185-5934, 14 , 15		185-6016, 36 , 37		185-6082, 15		185-6154, 32 , 33	
185-5937, 14		185-6017, 36 , 37		185-6083, 15		185-6155, 32 , 33	
185-5938, 14 , 15		185-6018, 36 , 37		185-6084, 15		185-6163, 27	
185-5939, 14 , 15		185-6019, 36 , 37		185-6085, 14 , 15		185-6180, 26	
185-5940, 14 , 15		185-6020, 36		185-6086, 14 , 15		185-6183, 45	
185-5941, 14 , 15		185-6022, 36 , 37		185-6088, 15		185-6184, 45	
185-5942, 14		185-6023, 36 , 37		185-6089, 15		185-6186, 47	
185-5943, 14		185-6025, 36 , 37		185-6091, 31		185-6187, 47	
185-5947, 23 , 24 , 25		185-6026, 36 , 37		185-6094, 38 , 39		185-6188, 47	
185-5949, 23 , 24 , 25		185-6027, 36 , 37		185-6095, 38 , 39		185-6189, 47	
185-5950, 23 , 24 , 25		185-6028, 36 , 37		185-6096, 39		185-6190, 47	
185-5961, 23 , 24		185-6029, 36 , 37		185-6097, 39		185-6191, 47	
185-5962, 25		185-6030, 36 , 37		185-6098, 39		185-6195, 67	
185-5963, 23 , 24 , 25		185-6035, 69		185-6099, 39		185-6197, 43	
185-5964, 25		185-6038, 13		185-6100, 39		185-6204, 43	
185-5969, 28 , 29		185-6039, 13		185-6103, 40		185-6207, 16	
185-5970, 28 , 29		185-6040, 13		185-6107, 36 , 37		185-6209, 17	
185-5971, 28 , 29		185-6041, 13		185-6108, 36 , 37		185-6213, 29	
185-5974, 28		185-6042, 13		185-6121, 12 , 13		185-6216, 33	
185-5976, 30		185-6043, 13		185-6122, 66		185-6217, 33	
185-5977, 30		185-6044, 67		185-6124, 43		185-6218, 33	
185-5985, 38 , 39		185-6045, 67		185-6125, 43		185-6219, 33	
185-5986, 38		185-6047, 67		185-6126, 43		185-6220, 33	
185-5987, 38		185-6048, 34		185-6127, 43		185-6225, 39	
185-5988, 38		185-6049, 35		185-6134, 28 , 29		185-6228, 46	
185-5989, 38		185-6050, 35		185-6135, 28 , 29		185-6242, 36 , 37	
185-5990, 38 , 39		185-6054, 42		185-6138, 32		185-6347, 46	
185-5991, 38		185-6061, 67		185-6139, 32		185-6418, 30 , 31	
185-5994, 45 , 46 , 47		185-6062, 22		185-6140, 32		185-6440, 46	
185-5999, 40		185-6063, 22		185-6141, 32		185-6630, 45 , 46	
185-6000, 40		185-6064, 16		185-6142, 32 , 33		185-6710, 44	
185-6001, 40		185-6065, 16		185-6143, 32 , 33		185-6711, 43	
185-6003, 40		185-6066, 16		185-6144, 32 , 33		185-6712, 43	
						185-6715, 69	

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>
185-6716, 41		185-6789, 36 , 37		185-7054, 46		191-1445, 19 , 20	
185-6717, 41		185-6795, 31		185-7055, 46		191-1446, 19 , 20	
185-6718, 41 , 42		185-6796, 31		185-7056, 47 , 48		191-1447, 19 , 20	
185-6719, 41 , 42		185-6803, 69		185-7060, 40		191-1448, 19 , 20	
185-6720, 41 , 42		185-6804, 42		185-7061, 44		191-1449, 19 , 20	
185-6721, 41 , 42		185-6809, 48		185-7062, 44		191-1450, 19 , 20	
185-6722, 41 , 42		185-6810, 48		185-7063, 37		191-1550, 18 , 20	
185-6723, 69		185-6811, 48		185-7064, 70		191-1606, 20	
185-6724, 45 , 46 , 48		185-6812, 48		185-7065, 69		191-1607, 20	
185-6725, 38 , 39		185-6813, 48		185-7442, 30 , 32		191-1608, 20	
185-6726, 28 , 29		185-6814, 48		185-7443, 31 , 33		191-1609, 20	
185-6727, 66		185-6815, 48		190-0729-01, 68		191-1959, 18 , 19	
185-6728, 66		185-6816, 48		190-0729-02, 68		191-1960, 20	
185-6730, 45		185-6819, 48		190-0763-02, 68		191-1991, 19	
185-6731, 38		185-6820, 48		190-0764-02, 68		191-1992, 19	
185-6733, 45 , 46		185-6821, 44		190-0766-03, 68		191-1993, 19	
185-6734, 45		185-6929, 67		190-0767-02, 68		191-1994, 19	
185-6756, 30		185-6956, 67		190-0768, 68		191-2167-03, 49	
185-6757, 30		185-6957, 30 , 31 , 36 , 37 , 40 , 43 , 44		190-0769-03, 68		191-2168-03, 49	
185-6758, 30		185-6960, 43		190-0770-03, 68		191-2169-01, 49	
185-6759, 12 , 13 , 43 , 46		185-6963, 25		190-0771-02, 68		191-2169-02, 49	
185-6760, 66		185-6967, 42		190-0771-04, 68		191-2170, 49	
185-6761, 66		185-6974, 15		190-0771-06, 68		193-0244, 52	
185-6763, 34		185-6976, 14 , 15		190-0776-01, 68		193-0318, 40	
185-6764, 34		185-6977, 15		190-0776-02, 68		193-0430-01, 52	
185-6765, 43		185-6982, 12 , 13 , 23 , 24		190-0776-03, 68		193-0457-01, 40	
185-6766, 21 , 22		185-6985, 29		190-0776-04, 68		193-0468, 64	
185-6767, 17		185-6993, 33		190-0777, 68		201-3515-02, 89	
185-6768, 17		185-6994, 33		190-0778, 87		201-3517-02, 89	
185-6769, 17		185-7004, 39		190-0792-03, 68		201-3517-04, 89	
185-6770, 17		185-7012, 45 , 46		191-1431, 19 , 20		201-3517-06, 89	
185-6771, 17		185-7020, 44		191-1432, 19 , 20		205-0229-02, 89	
185-6772, 12 , 13 , 23 , 24		185-7021, 44		191-1433, 19 , 20		211-0465-02, 89	
185-6774, 28 , 29		185-7031, 12 , 13		191-1436, 19 , 20		220-4413-02, 89	
185-6775, 28 , 29		185-7036, 15		191-1437, 19 , 20		220-4618-02, 89	
185-6778, 32 , 33		185-7041, 29		191-1438, 19		220-4618-04, 89	
185-6781, 27		185-7042, 29		191-1439, 19 , 20		220-4618-06, 89	
185-6784, 12 , 13		185-7045, 30 , 31		191-1440, 20		220-4619-02, 89	
185-6785, 45 , 46		185-7050, 39		191-1441, 19 , 20		220-4619-04, 89	
185-6786, 27 , 45 , 46		185-7052, 46		191-1442, 19 , 20		220-4619-06, 89	
185-6788, 40		185-7053, 46		191-1444, 19 , 20		232-2815-04, 89	
						232-3672-03, 89	

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>
232-3705-01, 89		319-4404, 92		323-1548, 95		338-3168, 105	
232-3706-02, 89		319-4467-01, 95		323-1549, 101		338-3169, 105	
232-3826-02, 89		319-4467-02, 94		323-1563, 101		338-3169-01, 105	
232-3945, 89		319-4996, 96		323-1582-05, 101		338-3169-02, 105	
234-0935-02, 89		319-4997, 98		323-1582-06, 101		338-3169-03, 105	
300-5040, 40		319-4998, 97		323-1582-07, 101		338-3988, 96	
300-5041, 40		320-1689-09, 93		323-1583, 101		338-3989, 99	
300-5474, 93		320-1689-10, 93		323-1591, 96 , 97 , 98 , 99 , 101 , 102 , 105 , 106		338-3990, 97 , 98	
300-5476-03, 93 , 94		320-1689-12, 93		323-1625, 102		338-4006-07, 106	
300-5476-04, 93 , 94		320-1689-13, 93		323-1626, 102		338-4006-08, 106	
300-5725-01, 96		320-1689-15, 93		323-1708, 101		338-4006-09, 106	
300-5725-02, 96		320-1689-16, 93		323-1765, 101		338-4006-10, 106	
300-5726-01, 98		320-1689-17, 93		323-1933, 93		338-4006-11, 106	
300-5726-02, 98		320-1689-18, 93		323-2072, 93		338-4006-12, 106	
300-5727-01, 97		320-1690-12, 93		327-1268, 93		338-4006-13, 106	
300-5727-02, 97		320-1690-14, 93		327-1386, 91		338-4006-14, 106	
302-1140, 94		320-1836-07, 93		327-1412, 91		338-4006-15, 106	
302-2048, 94 , 97 , 99		320-1836-09, 93		327-1533, 91		338-4006-16, 106	
302-2051-01, 95 , 98 , 99		320-1836-11, 93		327-1534, 91		338-4006-17, 106	
302-2051-02, 95 , 98 , 99		320-1836-12, 93		332-0142, 80		338-4006-18, 106	
302-2087, 95 , 99		320-1836-13, 93		332-1389, 69		338-4010, 95	
302-2088, 95 , 99		320-1836-14, 93		332-1571, 72		338-4017, 105	
304-0796, 51		320-1836-15, 93		332-2370, 93		338-4091, 101	
304-0835-03, 95 , 99		320-1836-16, 93		332-2634, 59 , 61		338-4176-03, 80	
306-5005-01, 50		320-1862-01, 94		332-2890, 96 , 97 , 98 , 99		338-4176-04, 80	
306-5005-02, 50		320-1891-01, 93		332-3388, 101		338-4200-01, 75	
307-1617, 75		320-1891-02, 93		332-3408, 80		338-4200-02, 75	
307-2656, 75		320-1891-04, 93		332-3750, 92		338-4213, 102	
307-2767, 93		320-1891-07, 93		333-0662-02, 75		338-4223, 106	
307-2819, 93		320-1891-08, 93		333-0665-01, 75		350-1238, 51	
308-1019, 96 , 97 , 98 , 99 , 101		323-1491, 102 , 105		333-0665-02, 75		358-0069, 89	
308-1101, 94 , 96 , 97 , 98 , 99		323-1492, 95 , 96 , 97 , 98 , 105 , 106		334-0935-03, 80		358-0070, 89	
308-1102, 94 , 96 , 97 , 98 , 99		323-1494, 101		337-0081, 79		402-0681-01, 79	
309-0597-01, 71		323-1502, 101		337-0090-02, 77		403-3573, 76	
309-0667, 59 , 61		323-1541, 97 , 98 , 99 , 105 , 106		337-2784-02, 77		403-3916-02, 12 , 13	
319-3254-02, 99		323-1542, 101 , 105		337-2785, 77		403-3955, 76	
319-4367-03, 93		323-1543, 96 , 97 , 98 , 99 , 105 , 106		337-2795, 93		403-3972-03, 76	
319-4368-05, 95		323-1544, 101 , 105		337-3507, 79		403-4059-03, 76	
319-4368-06, 94		323-1546, 95		337-3508, 93		403-4091, 76	
319-4370-03, 92		323-1547, 101		338-3098, 105		403-4581-02, 76	
				338-3167, 105		403-4624-02, 76	
						405-5010-02, 87	

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>
405-5052, 82		405-7347, 84		502-1298-02, 61		503-2350-01, 59 , 61	
405-6340, 82		405-7350-03, 85		502-1309, 52		503-2350-02, 59	
405-6491-03, 79		405-7357-01, 84		502-1367-01, 51 , 52		503-2350-04, 59	
405-6492-03, 80		405-7357-02, 84		502-1367-02, 51		503-2352, 56 , 57	
405-6519-03, 83		405-7358-01, 85		502-1368, 52		503-2394, 56	
405-6522-03, 91		405-7358-02, 87		502-1425-02, 56 , 57		504-0011, 67	
405-6682, 80		405-7359-01, 82		502-1450, 56		504-0223, 56 , 57	
405-6684, 79		405-7359-02, 82		502-1463, 56 , 57		505-0003, 61 , 63	
405-6685, 79		405-7360, 85		503-0003, 52		505-0041, 61 , 63	
405-6686, 79		405-7361, 82		503-0501, 59		505-0110, 40	
405-6687, 83		405-7429-03, 79		503-0977, 56 , 57 , 59 , 61		505-0304, 61 , 63	
405-6689, 79		405-7430, 79		503-1013, 61		505-0339-02, 72	
405-6797, 83		406-0958, 83		503-1133, 74		505-0446-01, 61 , 63	
405-6812-02, 87		406-1032, 84 , 85 , 87		503-1137, 59 , 61 , 63		505-1489, 52	
405-6866, 87		501-0578, 53		503-1138, 59 , 61 , 63 , 64 , 69		505-1490, 51 , 52	
405-6867, 87		501-0624, 66		503-1139, 69 , 74		505-1509, 61 , 63	
405-6868-03, 85		501-0672-02, 52		503-1142, 71		506-0005, 27	
405-6870-03, 82		501-0672-04, 52		503-1143, 59 , 69		506-0006, 27	
405-6871-03, 85		501-0672-05, 52		503-1144, 59		508-0021, 85	
405-6877, 87		501-0672-06, 52		503-1692, 65		508-0051, 81	
405-6957-01, 83		501-0797-01, 71		503-1896, 59		508-1073, 89	
405-6971-03, 82		501-0797-02, 71		503-1898, 64		508-1102, 56 , 57	
405-6972-03, 84		502-0020, 51		503-1899, 64		508-1105, 92 , 102	
405-6990, 82		502-0020-01, 51		503-1939, 69		508-1105-01, 93	
405-6991, 82		502-0028, 51 , 52		503-1977, 59		508-1152, 79	
405-6992, 85		502-0053, 52		503-1998, 59		508-1191, 26	
405-6993-01, 84		502-0054, 51 , 53		503-1999, 64		509-0094, 89	
405-6993-02, 84		502-0055, 52		503-2009-01, 69		509-0254, 67	
405-6995-01, 84		502-0153, 53 , 54 , 64		503-2023, 61 , 63		509-0351, 59	
405-6995-02, 84		502-0156, 51		503-2025-01, 61 , 63		509-0368, 81	
405-7038-03, 81		502-0175, 51		503-2025-02, 61		509-0375, 26	
405-7102-03, 84		502-0263, 66		503-2027, 59		510-0112, 89	
405-7104-03, 84		502-0819, 67		503-2122, 59 , 61		511-0201, 45	
405-7164-02, 81		502-1006, 67		503-2200-01, 51 , 52		511-0211, 49	
405-7179, 85		502-1123, 66		503-2200-02, 51		517-0136, 92	
405-7208-03, 79		502-1244, 52		503-2200-05, 52		517-0138-04, 85	
405-7210, 71		502-1245, 52		503-2309, 51 , 52 , 56 , 57		517-0138-07, 81	
405-7211, 59 , 61		502-1273, 67		503-2344, 71		517-0138-09, 85	
405-7230-03, 87		502-1295-01, 61		503-2345, 71		518-0515, 40	
405-7231, 87		502-1295-02, 61		503-2347, 59		518-0712, 23 , 24 , 25	
405-7345-02, 82		502-1295-03, 61		503-2349, 59		518-0713, 23 , 24 , 25	
						520-2218-01, 70	

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>
526-0008, 89		541-0837-03, 78		800-2069, 49		821-6001-03, 79 , 93	
526-0045, 49		541-0852-01, 71		800-2071, 49		821-6002-02, 51 , 66	
526-0052, 80 , 93		541-0852-02, 71		800-2100, 49		821-6003-01, 76	
526-0054, 80		541-0852-03, 71		800-2113, 18		821-6006-01, 59 , 71 , 78 , 79 , 80 , 81 , 82 , 84 , 85 , 87 , 93	
526-0063, 50		541-0852-04, 71		800-2118, 76		823-0002-02, 81	
526-0145, 18		541-0853, 107		800-3005, 18		850-0025, 71	
526-0172, 76		541-0863-01, 56		800-3017-18, 93		850-0045, 49	
526-0174, 68 , 89		541-0876, 57		800-3017-21, 68		850-0060, 49	
526-0219, 49		541-0941-01, 96		800-3017-52, 89		850-0114-06, 89	
526-0313, 49		541-0941-02, 96		800-3024, 91		850-0114-51, 95 , 98 , 99	
526-0329, 67		541-1206-01, 95		800-3029, 52		850-0114-53, 75	
526-0399, 89		541-1206-02, 95		800-3030, 76		850-0165, 59	
526-0399-05, 94		541-1207-01, 99		800-3031, 75 , 76 , 77		850-2006, 12 , 13 , 66	
526-0399-13, 93		541-1207-02, 99		800-3032, 18 , 68		850-2008, 51 , 53 , 72	
526-0399-42, 89		718-1036, 12 , 13 , 77		800-3033, 12 , 13 , 68		850-2009, 49	
526-0399-44, 89		718-1040, 41 , 42 , 53		800-3042, 79		850-2010, 49	
526-0399-58, 75		718-1047, 78		800-6033, 79 , 80 , 85 , 91		850-2056, 85	
526-0399-62, 18		718-1055, 53		800-6062, 93		850-2058, 93	
526-0399-64, 12 , 13 , 52 , 68		725-1027, 50		800-6304, 23 , 24		850-2083, 26 , 27	
526-0399-73, 89		725-1103, 68		800-6305, 27		853-0008, 89	
526-0406, 52		740-1004, 71 , 72		800-6306, 27		853-0013, 89	
526-0409, 95 , 98 , 99		740-1006, 27 , 36		800-6307, 26		853-0016, 75	
526-0413, 66		750-1006, 70 , 71 , 77		801-1050, 68		853-2006, 79 , 80 , 85 , 91	
526-0451, 68		775-0061, 18		802-2068, 71 , 72		856-0002, 79	
526-2050, 79 , 91		800-0027, 49		810-0155, 79 , 80 , 93		856-0003, 51 , 79 , 94 , 95	
526-2081, 66 , 80		800-0051, 89		813-0100, 89		856-0006, 79 , 80 , 93	
526-2083, 80		800-0090, 68		813-0112, 51		856-0008, 77 , 93	
526-2100, 12 , 13 , 53 , 59 , 61 , 64 , 70 , 71 , 72 , 77		800-0104, 49		813-1000, 79		856-0012, 53	
526-2120, 49 , 59 , 76		800-0309-10, 94		815-0550-01, 93		856-0013, 77	
526-2140, 18 , 76 , 77		800-0310-01, 93		815-0904-03, 68		860-2010, 76	
526-2301, 26		800-0310-27, 89		815-0910, 96 , 97 , 98		860-2021, 80 , 81 , 85	
529-2291, 79		800-0310-36, 89		815-0916, 68		860-2025, 95 , 98 , 99	
541-0583, 92		800-0310-64, 89		815-0935, 89		860-2032, 26	
541-0584, 92		800-0317, 59		818-0217-03, 84 , 85		860-2036, 80	
541-0823, 75		800-2034, 12 , 13 , 66		818-0231-01, 79		860-2058, 93	
541-0830-01, 82		800-2054, 64		818-0239-03, 82		862-0016, 49	
541-0830-02, 82		800-2057, 59 , 61		818-1150-03, 93		862-0026-30, 75	
541-0834, 75		800-2058, 72		819-1156-01, 99		862-0026-54, 75	
541-0837-01, 78		800-2059, 71 , 72		821-0008, 93		862-0026-55, 68	
541-0837-02, 78		800-2061, 51		821-0009, 93		870-0131, 79 , 89 , 95	
		800-2067, 71 , 72		821-2035, 68		870-0131-01, 75	

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>
870-2228, 93		895-0411, 83					
871-0016, 79 , 80 , 93		A034T397, 25					
871-0025, 77 , 80		A034T399, 25					
895-0308, 81		A040P213, 25					
895-0395, 83 , 84							
895-0402, 79							

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