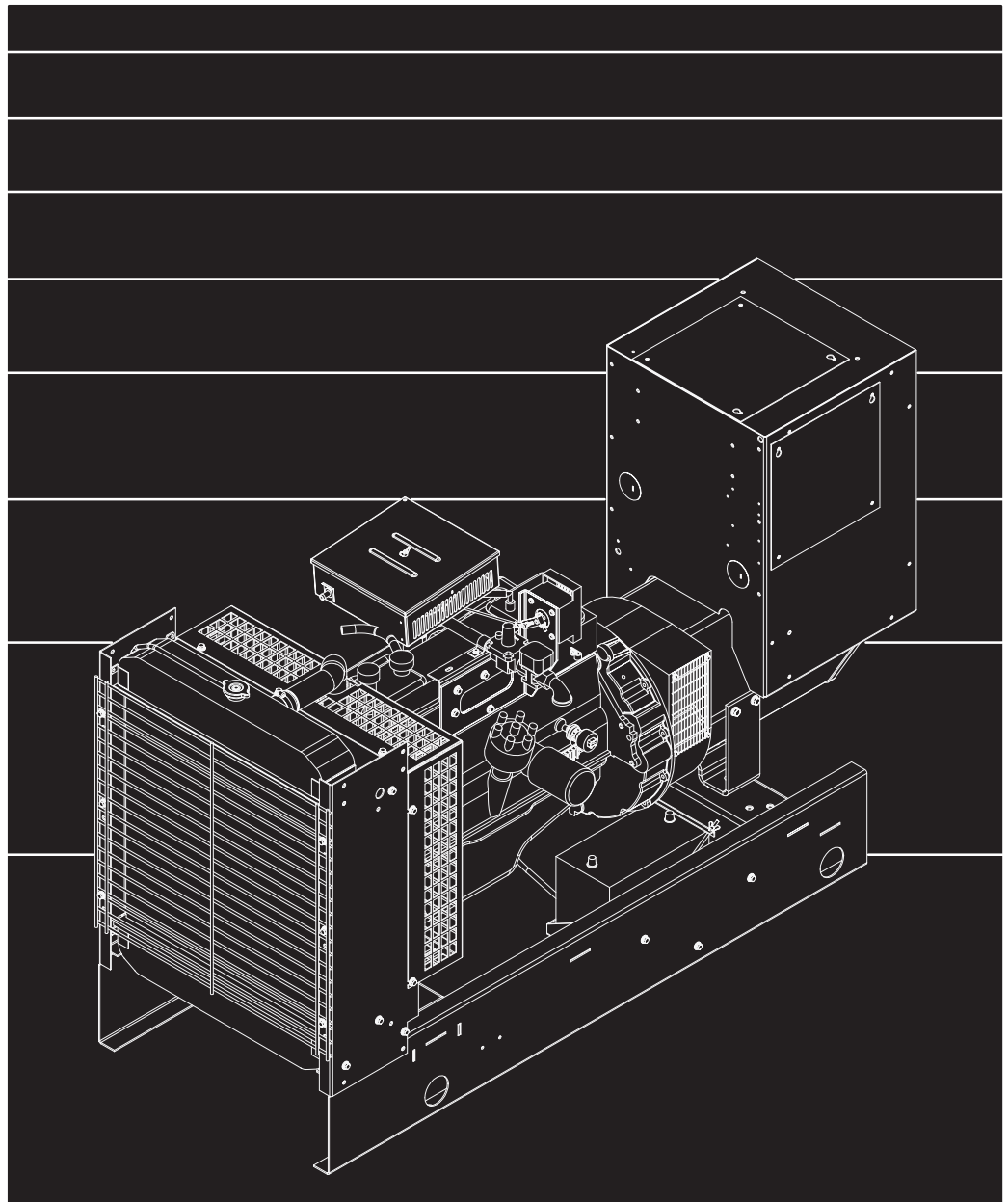




# Parts Catalog

GGFB  
GGFC

## Generator Set



Printed in U.S.A.

928-0232B (Spec A, B) 11-98  
Replaces 928-0232 (Spec A) 7-97

## 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!***

## Introduction

This Parts Catalog applies to the standard generator models GGFB and GGFC as listed in the Generator Set Data Table. Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding with the same reference number in the parts list. Parts illustrations are typical. Unless otherwise mentioned in the description or the page heading, parts are interchangeable between models. Throughout this catalog left and right sides are determined by facing the engine (front) of the set unless noted in the description column.

Engine parts that have been modified or added by Onan are identified in this catalog. All other Engine replacement parts must be ordered from the engine manufacturer by referring to the engine manufacturers nameplate and supplying all available information. Contact your nearest engine parts distributor for assistance in ordering replacement parts.

## Replacement Engine

Onan Generator Model	Ford Engine Model
GGFB	CSG649I-6005-A
GGFC	CSG649I-6005-A

Replacement engines cannot be ordered from Onan. Order from your nearest Ford Distributor.

## Generator Set Data Table

Model/ Specifica- tion	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
30.0GGFB*	30,000	#	50	4,6,12	1 or 3	12 VDC
35.0GGFB*	35,000	#	60	4,6,12	1 or 3	12 VDC
37.0GGFC*	37,000	#	50	4,6,12	1 or 3	12 VDC
45.0GGFC*	45,000	#	60	4,6,12	1 or 3	12 VDC

\* The specification number denotes customer requested options or deviations from the Standard model. The specification letter advances with major manufacturing changes.

# Broad Range Reconnectible.

## Index

- Adapter, Duct – Radiator, **24**
- Adapter, Generator, **47**
- Alarm, Common, **68**
- Alarm, Fuel – Spec B, **19**
- Alternator, **8**
- Ammeter, AC – Detector Control, **55**
- Ammeter, Blank Scale – Emergency Stop Switch, **70**
- Ammeter, Dual Scale – Sentinel Control, **63**
- Arm, Adjusting – Alternator, **7**
- Armature, Starter, **37**
  
- Bearing, Starter (Commutator End), **37**
- Bearing, Starter (Pinion End), **37**
- Bell, End – Generator, **47**
- Belt, Vee – External Engine Parts, **7**
- Block, Terminal – Engine Harness – Spec A, **73**
- Block, Terminal – Engine Harness – Spec B, **74**
- Block, Terminal – Generator, **47**
- Block, Terminal – Generator Heater, **49**
- Board, Printed Circuit – Alarm Relay, **66**
- Board, Printed Circuit – Common Alarm, **68**
- Board, Printed Circuit – Engine Monitor – Detector Control, **55**
- Board, Printed Circuit – Time Delay Start/Stop, **69**
- Boot, Battery – External Engine Parts, **7**
- Box, Air – Air Cleaner, **9**
- Box, Circuit Breaker, **41**
- Box, Control – Control Housing, **38**
- Box, Control – Detector Control, **55**
- Box, Entrance, **39**
- Box, Terminal – Generator Heater, **49**
- Bracket, Engine Mounting – Skid, **35**
- Bracket, Governor, **20**
- Bracket, Mechanical Overspeed, **52**
- Bracket, Mounting – Alternator, **7**
- Bracket, Mounting – Circuit Breaker Box , **41**
- Bracket, Mounting – Control, **38**
- Bracket, Mounting – Coolant Heater, **30**
- Bracket, Mounting – Generator Foot, **47**
- Bracket, Muffler – Residential Muffler, **22**
- Bracket, Transformer, **71**
- Breaker, Circuit – Sentinel Control, **57**
- Breaker, Circuit – Spec A, **42**
- Breaker, Circuit – Spec B, **43**
- Breaker, Circuit – Voltage Regulator – Sets With Detector Control, **59**
- Breaker, Circuit – Voltage Regulator – Sets With Sentinel Control, **60**
- Breather, Air Cleaner, **9**
- Bulb, Replacement – Emergency Stop Switch, **70**
  
- Cable, Battery – External Engine Parts, **7**
- Cable, Heater – Control, **58**
- Cap, Heater Tube – External Engine Parts, **7**
- Cap, Radiator, **24**
- Cap, Rain – Critical Muffler, **23**
- Cap, Rain – Residential Muffler, **22**
  
- Carburetor, **18**
- Cartridge, Heater – Generator, **49**
- Cleaner, Air, **9**
- Clutch, Starter, **37**
- Cock, Drain – Radiator, **24**
- Contact, Dry – Spec B, **61**
- Control, Sentinel, **57**
- Cover, Circuit Breaker Box , **41**
- Cover, End Bell – Mechanical Overspeed, **52**
- Cover, End Bell – PMG, **48**
- Cover, Housing – Control, **38**
- Cover, Stator – Generator, **47**
- Cushion, Vibration Insulator – Skid, **35**
  
- Diode – Generator, **47**
- Diode, Zener – Engine Harness – Spec A, **73**
- Diode, Zener – Engine Harness – Spec B, **74**
- Disc, Drive – Generator, **47**
- Door, Control – Detector Control, **55**
- Drain, Oil, **44**
  
- Element, Air Filter, **9**
- External Engine Parts, **7**
  
- Fan, Alternator, **8**
- Fan, Radiator, **24**
- Filter, Oil – External Engine Parts, **7**
- Flywheel – External Engine Parts, **7**
- Frame, Starter (Commutator End), **37**
- Fuel System – LP Liquid, **11**
- Fuel System – LP Vapor – Without Low Fuel Pressure Warning Switch, **16**
- Fuel System – Natural Gas – Without Low Fuel Pressure Warning Switch, **14**
- Fuel System – Natural Gas and LP Liquid, **13**
- Fuel System – Natural Gas and LP Vapor, **17**
- Fuel System – Natural Gas or LP Vapor – With Low Fuel Pressure Warning Switch – Spec B, **15**
- Fuse – Sentinel Control, **57**
  
- Gasket, Carburetor, **18**
- Gasket, Muffler – Critical Muffler, **23**
- Gasket, Oil Drain, **44**
- Gauge, Oil Pressure – Sets With Detector Control, **55**
- Gauge, Oil Pressure – Sets With Sentinel Control, **64**
- Gauge, Water Temperature – Sets With Detector Control, **55**
- Gauge, Water Temperature – Sets With Sentinel Control, **64**
- Gear, Ring – External Engine Parts, **7**
- Generator, **47**
- Governor, **20**
- Grille – Radiator, **24**
- Guard, Alternator – Radiator, **24**
- Guard, Alternator – Remote Radiator, **25**
- Guard, Fan – Generator, **47**
- Guard, Fan – Radiator, **24**
- Guard, Fan – Remote Radiator, **25**

## Index

- Harness, Wiring – AC – Sets With Detector Control, **55**  
Harness, Wiring – AC Control, **72**  
Harness, Wiring – AC Control – Sets With Sentinel Control, **60**  
Harness, Wiring – Alarm Relay Board, **66**  
Harness, Wiring – Common Alarm, **68**  
Harness, Wiring – DC – Sets With Detector Control, **55**  
Harness, Wiring – Dry Contact, **61**  
Harness, Wiring – Electronic Overspeed – Sets With Detector Control, **51**  
Harness, Wiring – Electronic Overspeed – Sets With Sentinel Control, **50**  
Harness, Wiring – Engine to Control – Spec A, **73**  
Harness, Wiring – Engine to Control – Spec B, **74**  
Harness, Wiring – Ignition, **7**  
Harness, Wiring – Low Battery Voltage, **62**  
Harness, Wiring – Low Coolant Level – With Continuously Monitored Low Coolant Level, **27**  
Harness, Wiring – Low Coolant Level – Without Continuously Monitored Low Coolant Level – Spec A, **28**  
Harness, Wiring – Low Coolant Level – Without Continuously Monitored Low Coolant Level – Spec B, **29**  
Harness, Wiring – PMG, **48**  
Harness, Wiring – TB21, **55**  
Harness, Wiring – Time Delay Start/Stop, **69**  
Harness, Wiring – Transformer, **71**  
Harness, Wiring – Vacuum Switch, **65**  
Heater, Control, **58**  
Heater, Engine Coolant, **30**  
Holder, Fuse – Sentinel Control, **57**  
Hose, Air Inlet – Air Cleaner, **9**  
Hose, Breather – External Engine Parts, **7**  
Hose, Coolant Drain – Engine, **26**  
Hose, Radiator, **24**  
Hose, Radiator – Remote Radiator, **25**  
Housing, Control, **38**  
Housing, Flywheel – External Engine Parts, **7**  
Housing, Generator Set – Quiet Site, **33**  
Housing, Generator Set – Standard Weather Protective, **31**  
Housing, Starter, **37**
- Indicator, Oil Level – External Engine Parts, **7**  
Isolator, Vibration – Detector Control, **55**  
Isolator, Vibration – Sentinel Control, **57**
- Joint, Ball – Governor, **20**
- Key, Exciter Rotor – Generator, **47**  
Kit, Starter Brush, **37**
- Labels, Miscellaneous, **75**  
Lamp – Detector Control, **55**  
Lead – Main Circuit Breaker, **43**  
Lens, Indicator, **62**  
Lens, Replacement – Low Coolant Level – With Continuously Monitored Low Coolant Level, **27**  
Light, Panel – Detector Control, **55**
- Link, Terminal – Generator, **47**  
Lug, Solderless – Circuit Breaker Box , **41**  
Lug, Solderless – Entrance Box, **39**
- Manifold, Oil Pressure – Engine Harness – Spec A, **73**  
Meter, Frequency – Detector Control, **55**  
Meter, Time Totalizing – Detector Control, **55**  
Module, Electronic Overspeed – Sets With Detector Control, **51**  
Module, Electronic Overspeed – Sets With Sentinel Control, **50**  
Module, Ignition – External Engine Parts, **7**  
Muffler, Critical, **23**  
Muffler, Residential, **22**
- Overspeed, Electronic – Sets With Detector Control, **51**  
Overspeed, Electronic – Sets With Sentinel Control, **50**  
Overspeed, Mechanical, **52**
- Paint, **5**  
Pan, Skid, **36**  
Panel, Control – Sentinel Control, **57**  
Pickup, Magnetic – Governor, **20**  
Pin, Parallel – PMG, **48**  
Plate, Audible Signal, **67**  
Plate, Fan Guard – Radiator, **24**  
Plate, Fan Guard – Remote Radiator, **25**  
Plate, Overspeed – Electronic Overspeed – Sets With Detector Control, **51**  
Point, Mechanical Overspeed, **52**  
Potentiometer – Voltage Regulator – Sets With Detector Control, **59**  
Potentiometer – Voltage Regulator – Sets With Sentinel Control, **60**  
Potentiometer, Volt Adjust – Detector Control, **55**  
Pulley, Alternator – External Engine Parts, **7**  
Pulley, Water Pump – External Engine Parts, **7**
- Radiator, **24**  
Radiator, Remote, **25**  
Rectifier – Generator, **47**  
Rectifier, Power – Control Heater, **58**  
Rectifier, Silicon – Engine Harness – Spec A, **73**  
Rectifier, Silicon – Engine Harness – Spec B, **74**  
Rectifier, Silicon – Low Coolant Level – With Continuously Monitored Low Coolant Level, **27**  
Regulator, Voltage – Sets With Detector Control, **59**  
Regulator, Voltage – Sets With Sentinel Control, **60**  
Relay – Engine Harness – Spec A, **73**  
Relay – Engine Harness – Spec B, **74**  
Relay – Sentinel Control, **57**  
Relay, Timer – Sentinel Control, **57**  
Resistor – Voltage Regulator – Sets With Detector Control, **59**  
Rotor, Exciter – Generator, **47**  
Rotor, Generator, **47**  
Rotor, PMG, **48**

## Index

- Screen, Air Inlet – Generator, **47**
- Sealant, Thread, **5**
- Sender, Low Coolant Level – With Continuously Monitored Low Coolant Level, **27**
- Sender, Low Coolant Level – Without Continuously Monitored Low Coolant Level – Spec A, **28**
- Sender, Low Coolant Level – Without Continuously Monitored Low Coolant Level – Spec B, **29**
- Sender, Pressure – Oil – Engine Harness – Spec A, **73**
- Sender, Pressure – Oil – Sets With Detector Control, **7**
- Sender, Temperature – Water – External Engine Parts, **7**
- Sensor, Low Battery, **62**
- Shield, Alternator – External Engine Parts, **7**
- Shield, Rain – Critical Muffler, **23**
- Shield, Rain – Residential Muffler, **22**
- Shroud – Radiator, **24**
- Signal, Audible, **67**
- Skid, **35**
- Starter, **7**
- Starter Components, **37**
- Stator, Exciter – Generator, **47**
- Stator, Generator, **45**
- Stator, PMG, **48**
- Strap, Ground – Skid, **35**
- Switch – Blank – Emergency Stop Switch, **70**
- Switch, Mechanical Overspeed, **52**
- Switch, Pressure (LOP) – Engine Harness – Spec A, **73**
- Switch, Pressure (Pre-LOP) – Engine Harness – Spec A, **73**
- Switch, Pressure – Oil – Sets With Sentinel Control, **7**
- Switch, Pushbutton – Emergency Stop, **70**
- Switch, Rheostat – Detector Control, **55**
- Switch, Rocker – Detector Control, **55**
- Switch, Rocker – Sentinel Control, **57**
- Switch, Starter, **37**
- Switch, Thermostat – External Engine Parts, **7**
- Switch, Vacuum, **65**
- Thermostat – External Engine Parts, **7**
- Transformer – Voltage Regulator – Sets With Sentinel Control, **60**
- Transformer, Current, **53**
- Transformer, Meter, **71**
- Tray, Battery, **34**
- Tube, Exhaust, **21**
- Valve, Drain – Coolant, **26**
- Valve, Oil Drain, **44**
- Valve, Vent – Crankcase, **7**
- Varistor – Generator, **47**
- Voltmeter – Detector Control, **55**
- Wrapper, Control – Sentinel Control, **57**

## Abbreviations

Some of the following abbreviations may be used throughout this Parts Catalog:

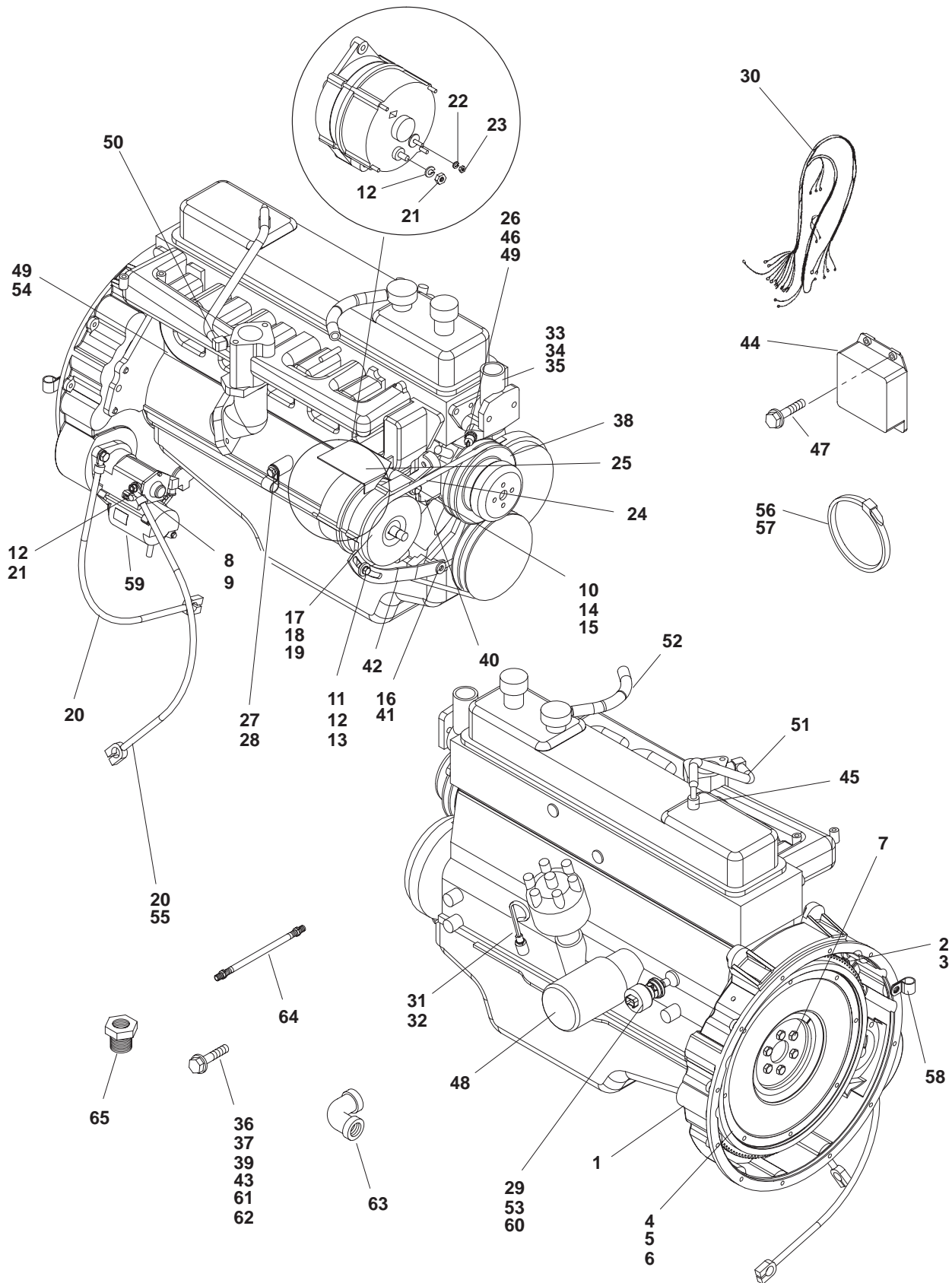
AC	Alternating Current	mm	Millimeter
Amp	Ampere	MOH	Mobile Off Highway
A/R	As Required	NFS	Not For Sale
AVR	Automatic Voltage Regulator	NPT	National Pipe Thread
AWG	American Wire Gauge	OD	Outside Diameter
Deg	Degree	oz.	Ounce
DC	Direct Current	PMG	Permanent Magnet Generator
EFC	Electronic Fuel Control	Ph	Phase
ET	External Tooth	PC	Printed Circuit
EIT	External/Internal Tooth	RFI	Radio Frequency Interference
GFI	Ground Fault Interrupter	RT	Right
ID	Inside Diameter	Spec	Specification
IT	Internal Tooth	Thk	Thick
IEC	International Electrotechnical Commission	UL	Underwriters Laboratories Inc.
kW	Kilowatt	UNC	Union National Coarse
LPG	Liquid Petroleum Gas	UNF	Union National Fine
LT	Left	VAC	Volts Alternating Current
M(meter Number)	Meter	VDC	Volts Direct Current
		W/(ET, IT, EIT)	With

## Paint and Thread Sealant

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Onan Green Enamel (Non-Metallic)	518-0601		—	Sealant, Thread (6 ml Tube)
	525-0305	—	12 oz. Pressurized Spray Can				
	525-0306	—	Quart Can				
	525-0304	—	Gallon Can				



## External Engine Parts



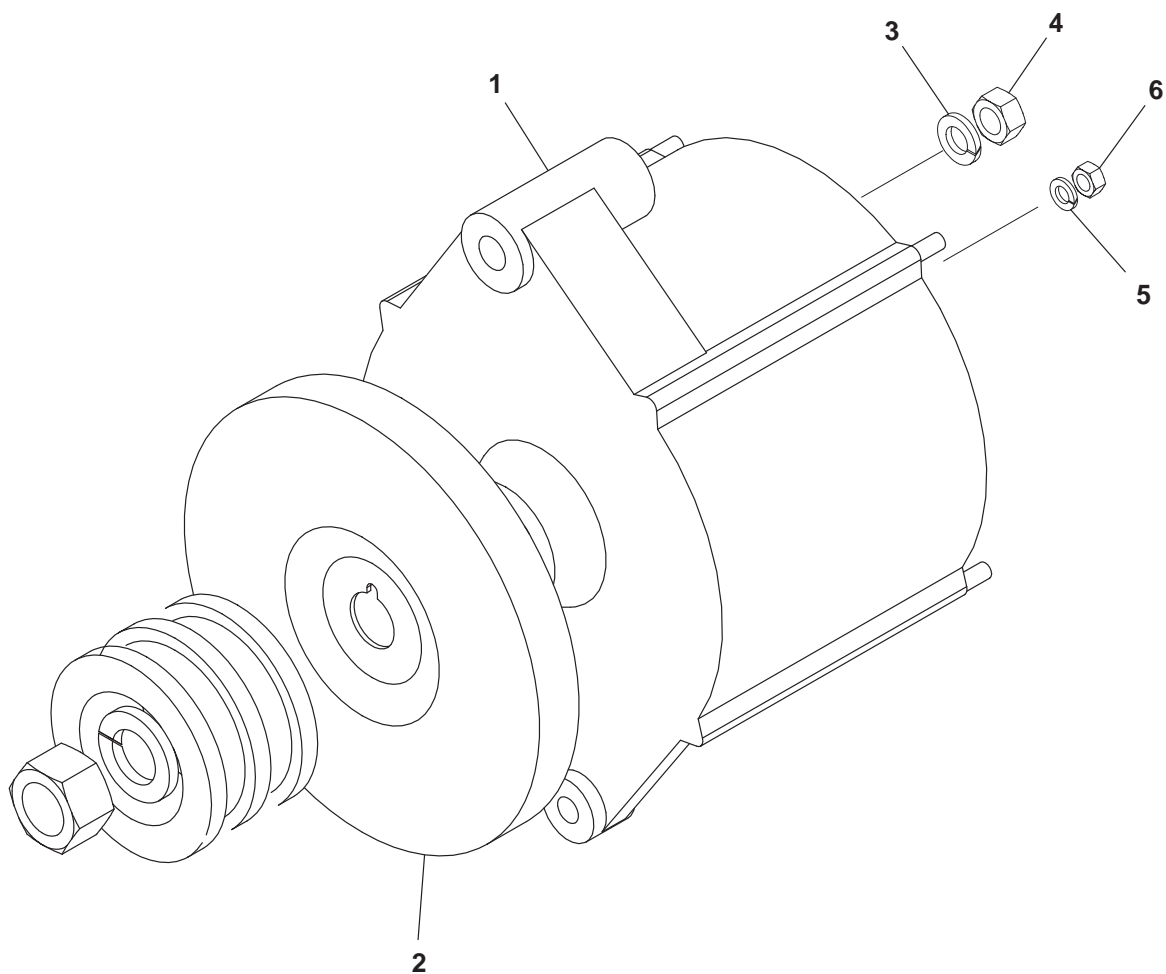


## External Engine Parts

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	231-0387	1	Housing, Flywheel	39	104-1771	6	Bolt, Lock
2	850-0055	6	Washer, Lock	40	191-2061	1	Bracket, Mounting – Alternator
3	800-0072	6	Screw, Cap – Hex Head (7/16-14 x 1.25)	41	191-1411	3	Bolt, Lock – Hex
4	104-1947	1	Flywheel and Ring Gear (Includes Parts Marked *)	42	191-1412	1	Arm Adjusting – Alternator
5	104-1945	1	* Flywheel	43	191-1413	1	Bolt, Lock – Hex (7/16-20 x 1.06)
6	104-1949	1	* Gear, Ring	44	166-0731	1	Module, Ignition
7	104-1771	6	Screw, Cap – Hex Head (7/16-20 x 1-1/16)	45	504-0172	1	Valve, Vent – Crankcase
8	850-2010	2	Washer, Lock – Spring (M10)	46	132-0331	1	Cap, Heater Tube
9	800-2088	2	Screw, Cap – Hex Head (M10 x 1.5 x .35)	47	821-5002-04	2	Screw, SEMS – Hex Head
10	191-2034	1	Spacer, Bracket – Alternator	48	122-0193	1	Filter, Oil
11	232-3441	1	Washer, End Bell	49	193-0318	1	Sender, Temperature – Water (Detector Control) (E2)
12	850-2008	3	Washer, Lock – Spring (M8)	50	505-1346	1	Elbow – 90°
13	800-2059	1	Screw, Cap – Hex Head (M8 x 1.25 x 30)	51	503-1608	14"	Hose, Vent – Crankcase
14	800-2101	1	Screw, Cap – Hex Head (M10 x 1.5 x 110)	52	503-1606	14"	Hose, Breather
15	870-2056	1	Nut, Lock – Flange (M10)	53	309-0641-19	1	Switch, Pressure – LOP (Sentinel Control) (S1)
16	526-0030	1	Washer, Flat (3/8)	54	870-0131	1	Nut, SEMS – ET (#10-32) (Detector Control)
17	191-2035	1	Pulley, Alternator (Double)	55	416-1019	1	Boot, Battery (Red)
18	851-0039	1	Washer, Lock – Spring	56	332-1794	A/R	Tie, Wrap
19	870-2161	1	Nut, Hex (M16)	57	332-1389	A/R	Tie, Wrap
20	416-0643	2	Cable, Battery	58	332-2634	1	Clamp, J
21	860-2008	2	Nut, Hex (M8)	59	191-2213	1	Starter (See separate page for components)
22	850-2005	2	Washer, Lock – Spring (M5)	60	193-0448	1	Sender, Pressure – Oil (Detector Control W/Sensor Board) (E1) – Spec B
23	860-2006	2	Nut, Hex (M5)	61	800-0027	1	Screw, Cap – Hex Head (5/16-18 x .88) (Sentinel Control and Detector Control W/Sensor Board) – Spec B
24	511-0074	1	Belt, Vee	62	800-0032	1	Screw, Cap – Hex Head (5/16-18 x 1.75) (Detector Control W/Gauge Board) – Spec A
25	191-0578	1	Shield, Alternator	63	502-0002	1	Elbow, Inverted (Detector Control W/Gauge Board) – Spec A
26	309-0552	1	Switch, Thermostat (S4) Sentinel Control and Detector Control W/Gauge Board – Spec A	64	501-0003	1	Line, Flexible Fuel (Detector Control W/Gauge Board) – Spec A
27	332-2921	1	Clamp, Loop	65	502-0029	1	Bushing, Pipe (Detector Control W/Gauge Board) – Spec A
28	800-0069	1	Screw, Cap – Hex Head (7/16-14 x .75)				
29	505-0007	1	Bushing, Reducer (1/4 x 1/8) (Sentinel Control)				
30	338-3662	1	Harness, Ignition				
31	123-1543	1	Tube, Oil Level Indicator				
32	123-1544	1	Indicator, Oil Level				
33	309-0450	1	Thermostat				
34	130-1909	1	Gasket, Water Outlet				
35	130-1910	1	Connector, Water Outlet				
36	130-1911	2	Bolt, Washer Head (5/16-18 x .87)				
37	130-1912	2	Bolt, Lock – Hex (3/8-16 x 1)				
38	130-3930	1	Pulley, Water Pump				

\* – Parts Included in 104-1947 Flywheel Assembly

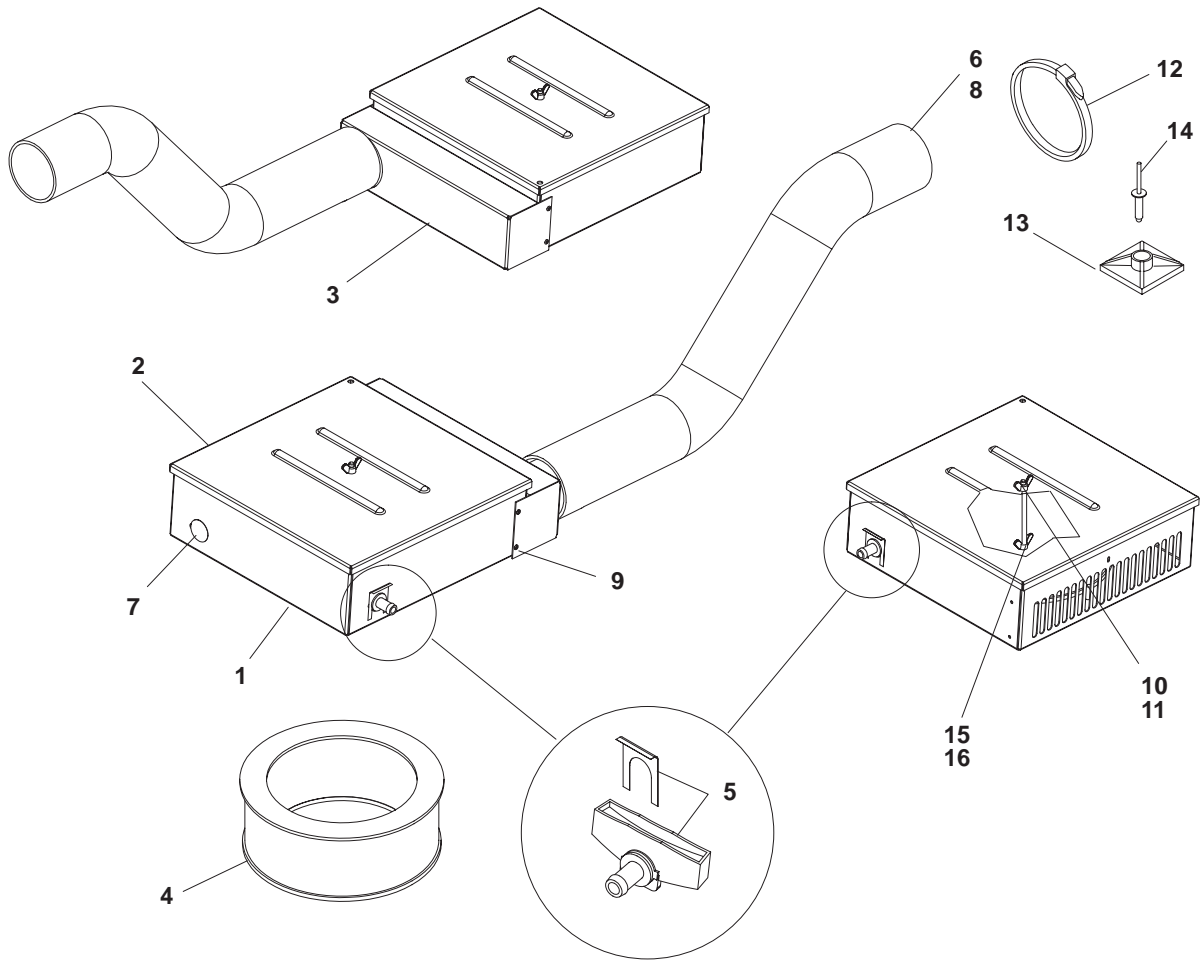
## Alternator



CP01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-2209	1	Alternator	4	860-2008	1	Nut, Hex (M8 x 1.25)
2	191-1981	1	Fan, Alternator	5	850-2005	2	Washer, Lock (M5)
3	850-2008	1	Washer, Lock (M8)	6	860-2006	2	Nut, Hex (M5 x 0.8)

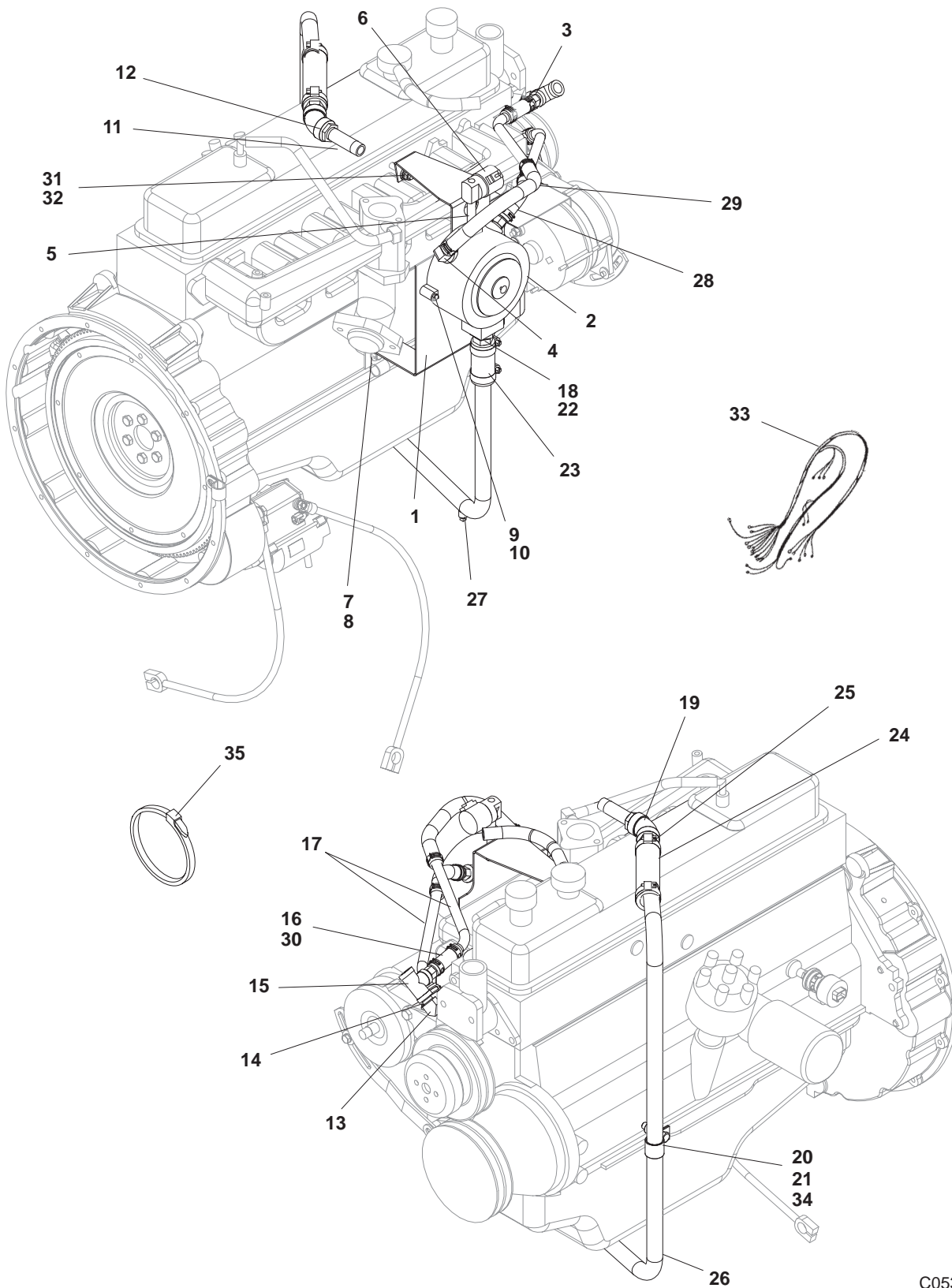
## Air Cleaner



CP01,F172,F173

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3139	1	Air Cleaner – Bottom	10	520-1011	1	Stud
2	140-3140	1	Air Cleaner – Top	11	865-0020	1	Wingnut (1/4-20)
3	140-3145	1	Air Box (Units w/Fresh Air Intake Hose)	12	332-1389	1	Tie, Cable (Units w/Fresh Air Intake Hose)
4	140-3147	1	Element, Air Filter	13	332-3561	1	Mounting, Base – Tie Wrap (Units w/Fresh Air Intake Hose)
5	140-3146	1	Breather, Air Cleaner	14	818-0231-02	1	Rivet 3/16" (Units w/Fresh Air Intake Hose)
6	140-3148	1	Hose, Air Inlet (Units w/Fresh Air Intake Hose)	15	865-0006	1	Nut, Wing (1/4-20)
7	517-0289	1	Plug, Hole	16	526-0018	1	Washer, Flat (1/4)
8	503-1870-05	1	Clamp, Hose (Units w/Fresh Air Intake Hose)				
9	818-0237-01	7	Rivet, Pop – 1/8" (Units w/Fresh Air Intake Hose)				

# Fuel System LP Liquid

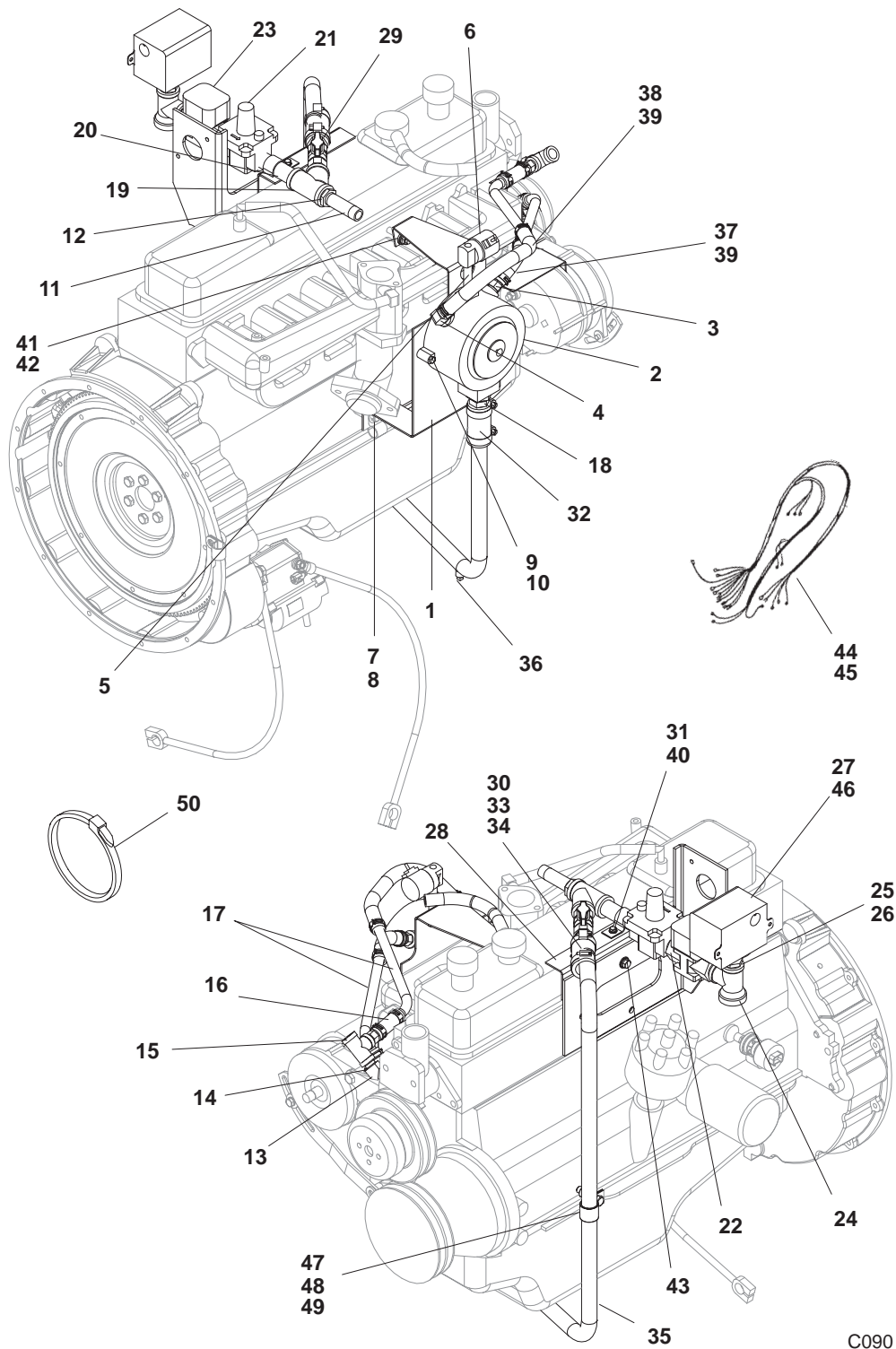


C053

## Fuel System LP Liquid

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1098	1	Bracket, Converter	19	505-1375	1	Elbow, Pipe – 45° (3/4)
2	148-0625	1	Converter, Gas	20	505-0027-01	1	Coupling, Pipe
3	502-0943	2	Connector, Hose (1/2 NPT x 5/8 Hose)	21	518-0548-20	1	Clamp, Hose
4	502-0942	1	Elbow, Hose (90°)	22	502-0971	2	Connector, Hose (3/4 NPT x 1.0 Hose)
5	505-0072	1	Nipple, Pipe (1/4 x 3)	23	503-1103	.25'	Hose, LPG (1.0 x 3.0)
6	307-0268-01	1	Valve, Solenoid	24	503-1103	.5'	Hose, LPG (1.0 x 6.0)
7	526-0249-01	2	Washer, Flat (7/16)	25	503-0398	4	Clamp, Hose
8	800-0069	2	Screw, Cap – Hex Head (7/16-14 x 3/4)	26	148-1101	1	Tube, Fuel
9	800-2038	2	Screw, Cap – Hex Head (M8 x 1.0 x 40)	27	505-0057	1	Plug, Square Head (1/8)
10	870-2054	2	Nut, Lock – Flange (M6 x 1.0)	28	503-1988	.5'	Hose, Engine Coolant (3/4 x 6.0")
11	505-0002	1	Nipple, Pipe (1/2 x 3.0)	29	503-1988	1.0'	Hose, Engine Coolant (3/4 x 12.0")
12	505-0021	1	Bushing, Reducer (3/4 x 1/2)	30	503-0183	8	Clamp, Hose
13	502-1173	1	Elbow, Hose (45°)	31	526-0030	2	Washer, Flat (3/8)
14	505-0101	1	Nipple, Close (3/8)	32	870-0281	1	Nut, Lock (3/8-16)
15	505-0060	1	Tee, Pipe (3/8)	33	338-3654	1	Harness, LPG
16	503-1634-02	2	Hose, Silicone Rubber	34	800-0608-02	1	Screw, Cap – Hex Head (7/16-14 x 1.75)
17	130-4814	2	Tube, Heater – Water	35	332-0941	A/R	Tie, Cable
18	505-0129	1	Bushing, Reducer (1.0 x 3/4)				

# Fuel System Natural Gas & LP Liquid



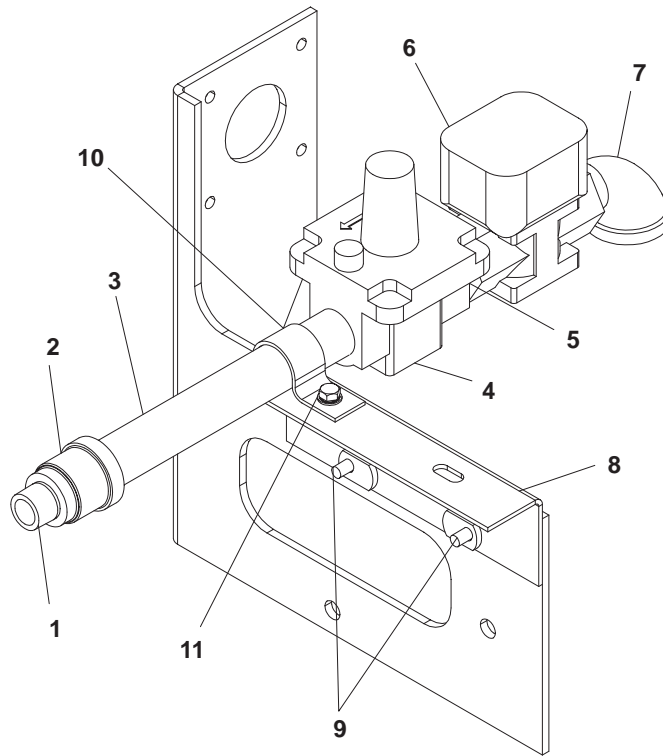
C090

## Fuel System Natural Gas & LP Liquid

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1098	1	Bracket, Converter	26	505-0099	1	Nipple, Pipe (1/4 x .88)
2	148-0625	1	Converter, Gas	27	148-0998	1	Switch, Pressure (12 Volt)
3	502-0943	2	Connector, Hose (1/2 NPT x 5/8 Hose)	28	148-1096	1	Bracket, Fuel System
4	502-0942	1	Elbow, Hose – 90°	29	504-0171	1	Valve (3/4)
5	505-0072	1	Nipple, Pipe (1/4 x 3.5)	30	502-0971	2	Connector, Hose (3/4 NPT x 1.0 Hose)
6	307-0268-01	1	Valve, Solenoid	31	821-6002-03	2	Screw, SEMS – Hex Head (M6 x 1.0 x 16)
7	526-0249-01	2	Washer, Flat (7/16)	32	503-1103	.25'	Hose, LPG (1.0 x 3.0)
8	800-0069	2	Screw, Cap – Hex Head (7/16-14 x 3/4)	33	503-1103	.25'	Hose, LPG (1.0 x 3.0)
9	800-2038	2	Screw, Cap – Hex Head (M6 x 1.0 x 40)	34	503-0398	4	Clamp, Hose
10	870-2054	2	Nut, Flange – Lock (M6 x 1.0)	35	148-1101	1	Tube, Fuel System
11	505-0002	1	Nipple, Pipe (1/2 x 3.0)	36	505-0057	1	Plug, Square Head (1/8)
12	505-0021	1	Bushing, Reducer (3/4 x 1/2)	37	503-1988	.5'	Hose, Engine Coolant (3/4)
13	502-1173	1	Elbow, Hose – 45°	38	503-1988	1.0'	Hose, Engine Coolant (3/4)
14	505-0101	1	Nipple, Close (3/8)	39	503-0131	8	Clamp, Hose
15	505-0060	1	Tee, Pipe (3/8)	40	518-0682-01	1	Clamp (3/4 NPT)
16	503-1634-02	2	Hose, Silicone Rubber	41	526-0030	2	Washer, Flat (3/8)
17	130-4814	2	Tube, Water Heater	42	870-0281	1	Nut, Lock (3/8-16)
18	505-0129	1	Bushing, Reducer ((1.0 x 3/4)	43	821-6003-02	2	Screw, SEMS – Hex Head (M8 x 1.25 x 20)
19	505-1527	1	Pipe, Lateral (3/4)	44	338-3666	1	Harness, Dual Fuel
20	505-0337	1	Nipple, Pipe (3/4 x 4.0)	45	338-3654	1	Harness, LPG
21	148-0597	1	Regulator, Natural Gas	46	331-0027	1	Connector, Romex
22	505-0102	3	Nipple, Close (3/4)	47	505-0027-01	1	Coupling, Pipe
23	307-0312-01	1	Valve, Solenoid	48	518-0548-20	1	Clamp, Hose
24	505-1497	1	Tee, Reducing (1.0 x 3/4 x 3/4)	49	800-0608-02	1	Screw, Cap – Hex Head (7/16-14 x 1.75)
25	505-0020	1	Bushing, Reducer (3/4 x 1/4)	50	332-0941	A/R	Tie, Cable



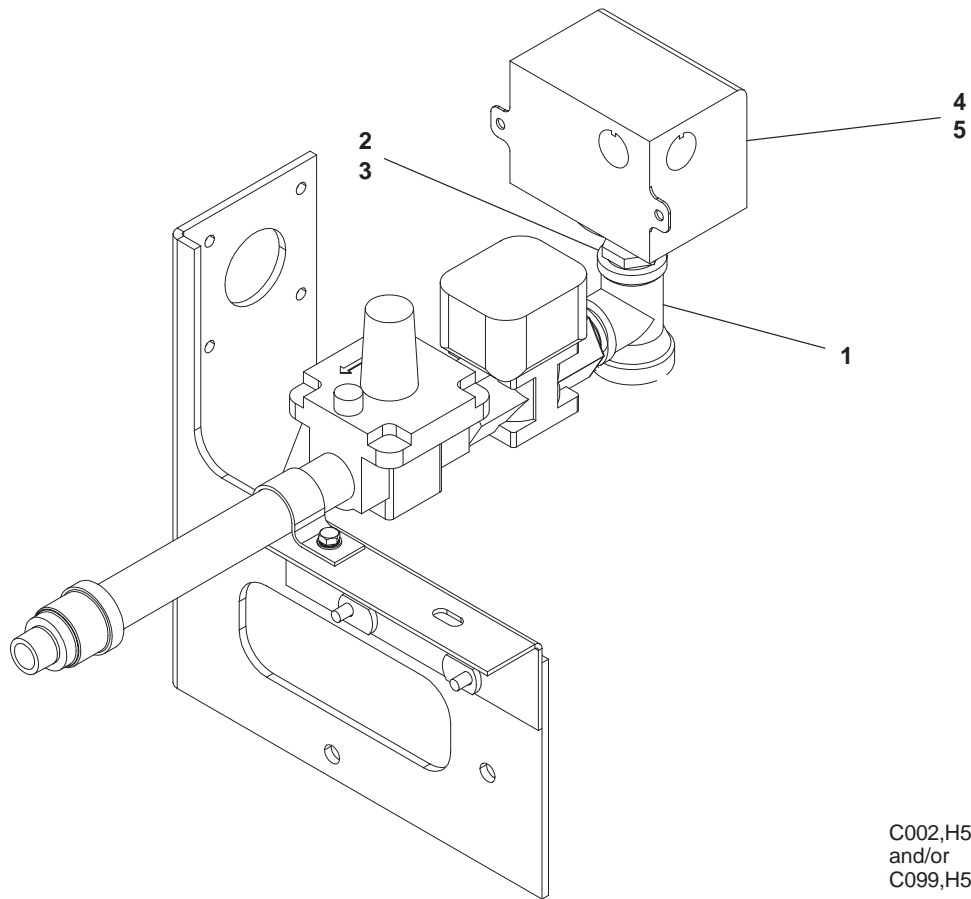
**Fuel System  
Natural Gas  
Without Low Fuel Pressure Warning Switch**



C002

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0100	1	Nipple, Pipe (1/2 NPT x 1.12)	8	148-1096	1	Bracket, Fuel System
2	505-0307	1	Coupling, Reducer (3/4 NPT x 1/2 NPT)	9	821-6003-02	2	Screw, SEMS – Hex Head (M8 x 1.25 x 20)
3	505-0438	1	Nipple, Pipe (3/8 NPT x 8.00)	10	518-0682-01	1	Clamp (3/4 NPT)
4	148-0597	1	Regulator, Natural Gas	11	821-6002-03	1	Screw, SEMS – Hex Head (M6 x 1.0 x 16)
5	505-0102	1	Nipple, Close (3/4 NPT)				
6	307-0312-01	1	Valve, Solenoid				
7	505-1498	1	Elbow, Street – Reducer (1.00 x 3/4 x 90°)				

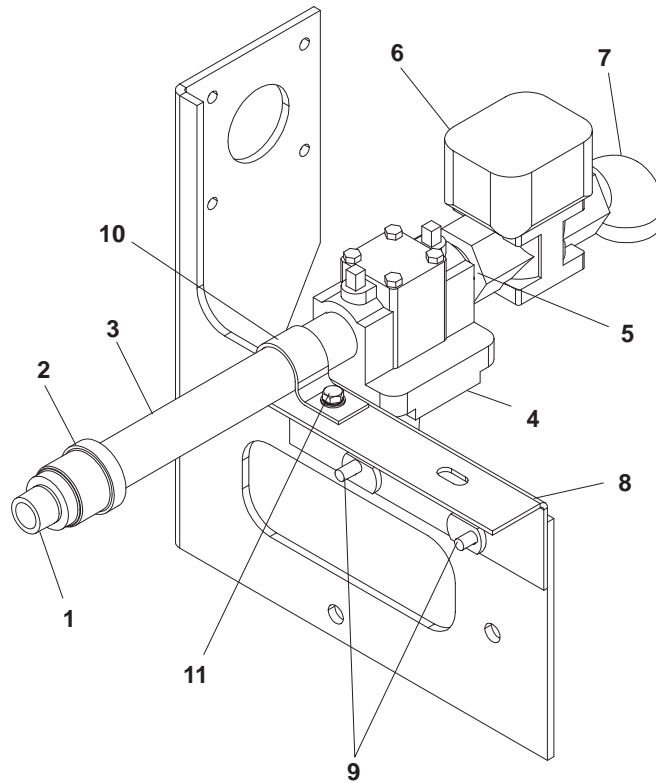
**Fuel System  
Natural Gas or LP Vapor  
With Low Fuel Pressure Warning Switch  
Spec B**



C002,H569  
and/or  
C099,H569

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0166	1	Tee, Pipe	4	148-0998	1	Switch, Pressure (12V)
2	505-0105	1	Nipple, Pipe (1/4 x 1.50)	5	331-0027	1	Box, Connector
3	505-0020	1	Bushing, Reducer				

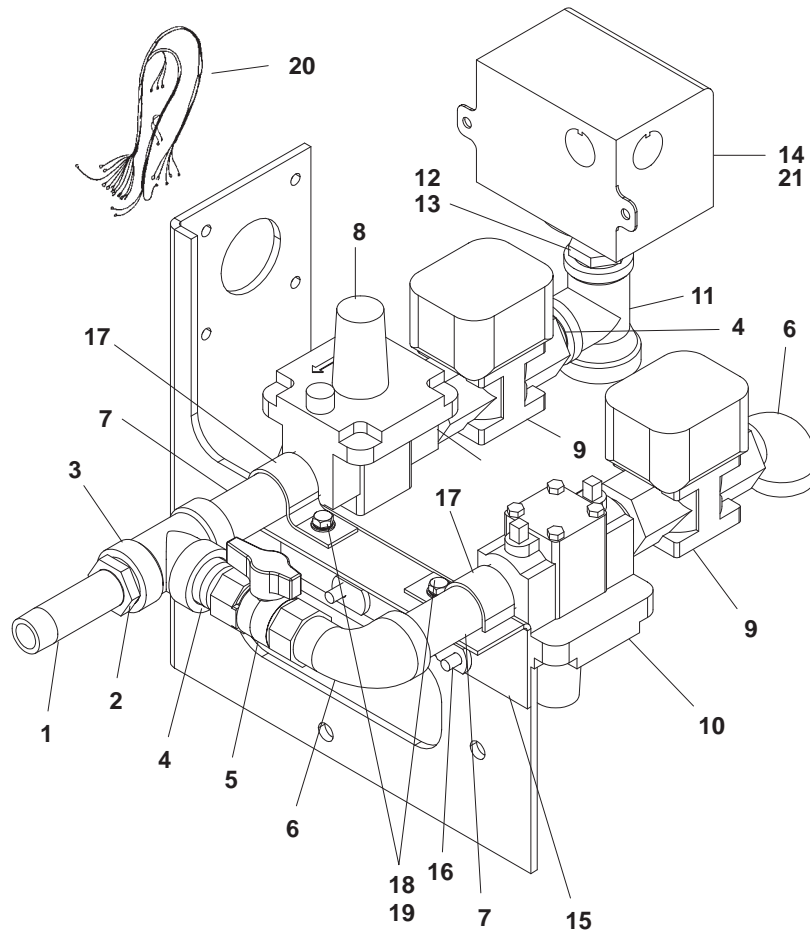
**Fuel System  
LP Vapor  
Without Low Fuel Pressure Warning Switch**



C099

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0100	1	Nipple, Pipe (1/2 NPT x 1.12)	7	505-0051	1	Elbow, Street (3/4 x 90°)
2	505-0307	1	Coupling, Reducer (3/4 NPT x 1/2 NPT)	8	148-1096	1	Bracket, Fuel System
3	505-0438	1	Nipple, Pipe (3/8 NPT x 8.00)	9	821-6003-02	2	Screw, SEMS – Hex Head (M8 x 1.25 x 20)
4	148-0637	1	Regulator, Natural Gas	10	518-0682-01	1	Clamp (3/4 NPT)
5	505-0102	1	Nipple, Close (3/4 NPT)	11	821-6002-03	1	Screw, SEMS – Hex Head (M6 x 1.0 x 16)
6	307-0312-01	1	Valve, Solenoid				

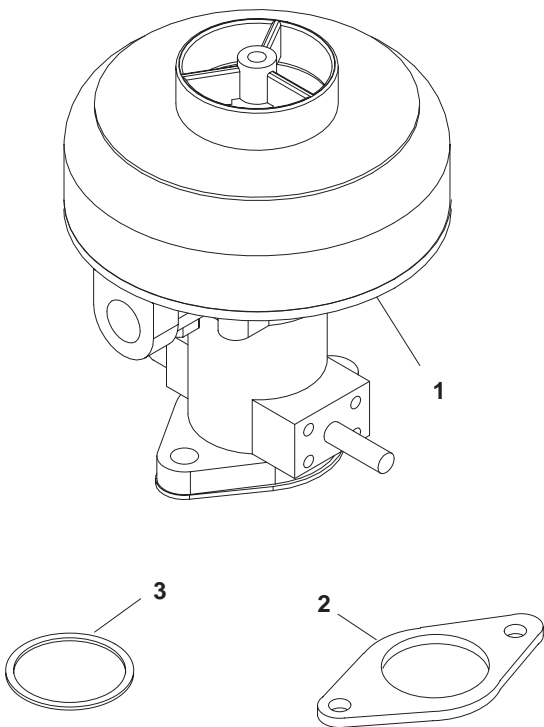
## Fuel System Natural Gas & LP Vapor



C065

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0002	1	Nipple, Pipe (1/2 NPT x 3/4)	12	505-0020	1	Bushing, Reducer (3/4 NPT)
2	505-0021	1	Bushing, Reducer (3/4 NPT x 1/2 NPT)	13	505-0099	1	Nipple, Pipe (1/4 x .88)
3	505-0166	1	Tee, Pipe (3/4)	14	148-0998	1	Switch, Pressure (12 Volt)
4	505-0102	4	Nipple, Close (3/4)	15	148-1096	1	Bracket, Fuel System
5	504-0171	1	Valve (3/4)	16	821-6003-02	2	Screw, SEMS – Hex Head (3/8-16 x 3/4)
6	505-0051	2	Elbow, Street 90° (3/4)	17	518-0682-01	2	Clamp (3/4 NPT)
7	505-0337	2	Nipple, Pipe (3/4 NPT x 4)	18	821-6002-03	2	Screw, SEMS – Hex Head (M6 x 1 x 16)
8	148-0597	1	Regulator, Natural Gas	19	870-0504	1	Nut, Retainer (M6)
9	307-0312-01	2	Valve, Solenoid	20	338-3666	1	Harness, Dual Fuel
10	148-0637	1	Regulator, Propane	21	331-0027	1	Connector, Romex
11	505-1497	1	Tee, Reducing (1 NPT x 3/4 NPT)				

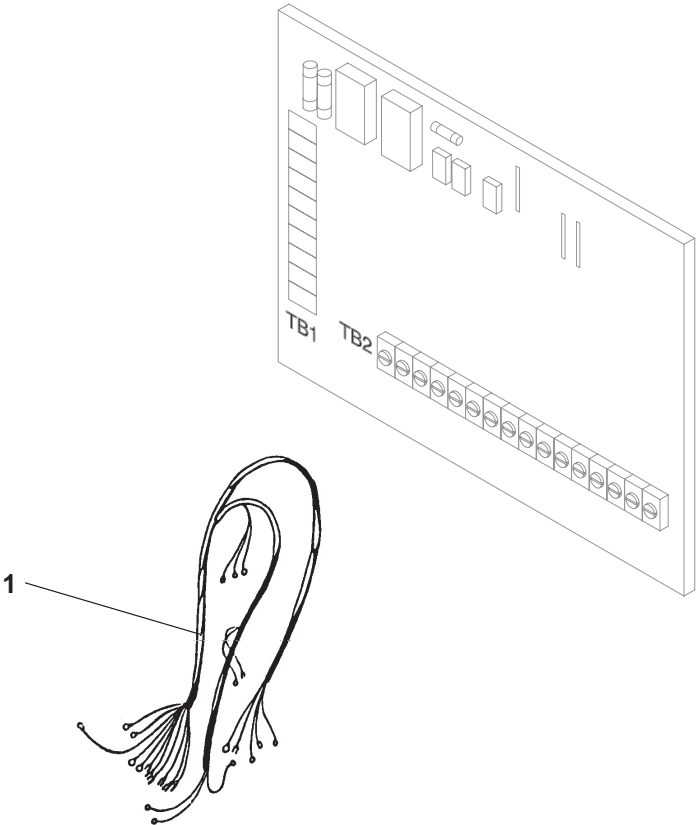
Carburetor



CP01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	148-1095	1	Carburetor	2	141-0852	1	Gasket, Carburetor
				3	141-0981	1	Gasket, Carburetor

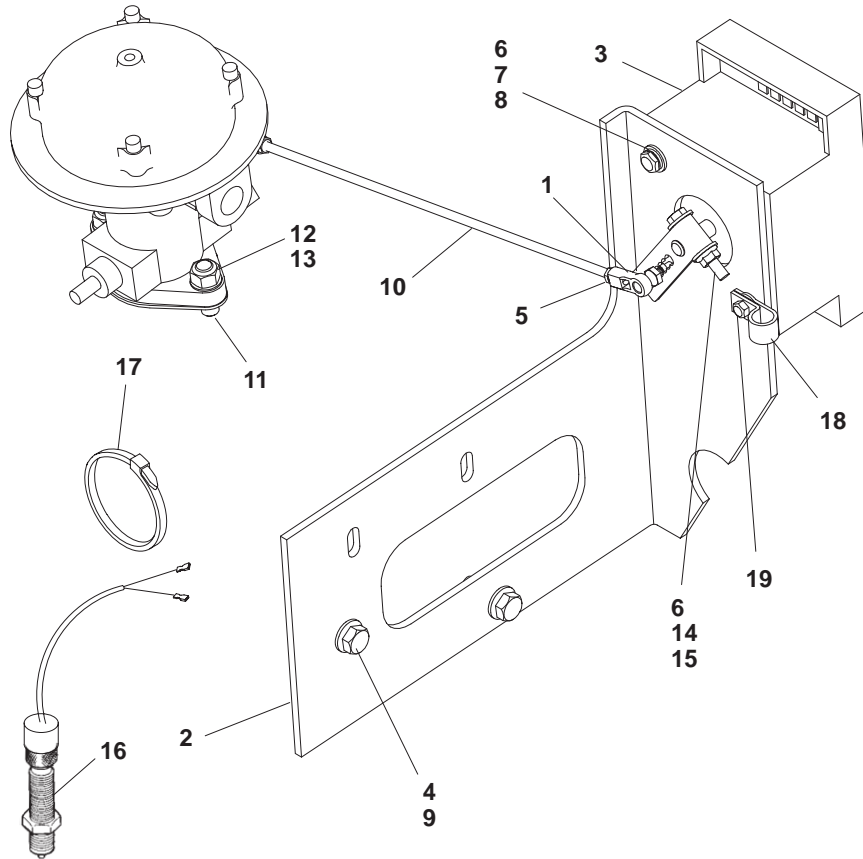
Fuel Alarm  
Spec B



H559,H560,H569

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3740	1	Harness, Fuel Alarm				

## Governor

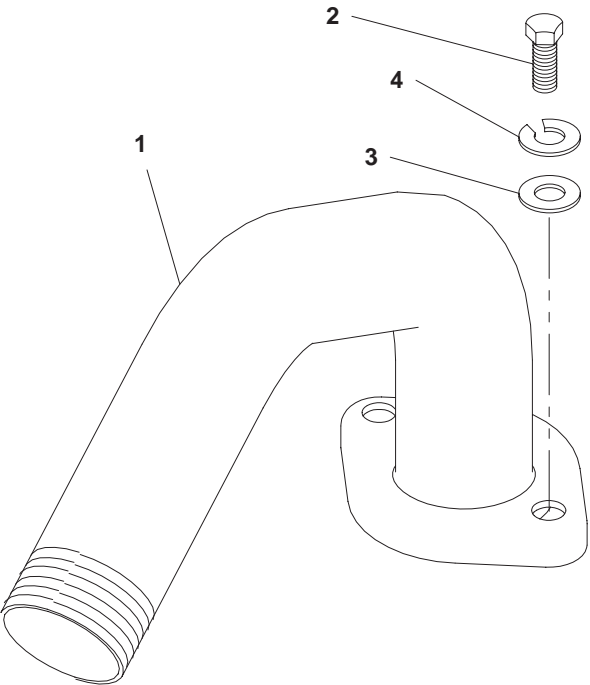


CP01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-0939	2	Joint, Ball	11	520-0311	2	Stud (3/8)
2	150-2690	1	Bracket, Governor	12	854-0020	2	Washer, Lock – EIT (3/8)
3	150-2692-01	1	Governor	13	867-0031	2	Nut, Hex (3/8-24)
4	526-0423	2	Washer, Flat (.40 x 1.25 x .25)	14	800-2038	1	Screw, Cap – Hex Head (M6 x 1.0 x 40)
5	870-0131	4	Nut, SEMS – W/ET (#10-32)	15	870-2054	1	Nut, Lock – Flange (M6 x 1.0)
6	526-0018	2	Washer, Flat (1/4)	16	150-2651	1	Pickup, Magnetic
7	850-0040	4	Washer, Lock – Split (1/4)	17	332-1445	A/R	Tie, Cable
8	800-0602	4	Screw, Cap – Hex Head (1/4-28 x 3/4)	18	332-1554	1	Clamp, Loop – Insulated
9	821-5004-03	2	Screw, SEMS – Hex Head (3/8-16 x 1.0)	19	870-0212	1	Nut, Self-Locking (1/4-20)
10	520-1012	1	Stud, Governor linkage (#10-32)				



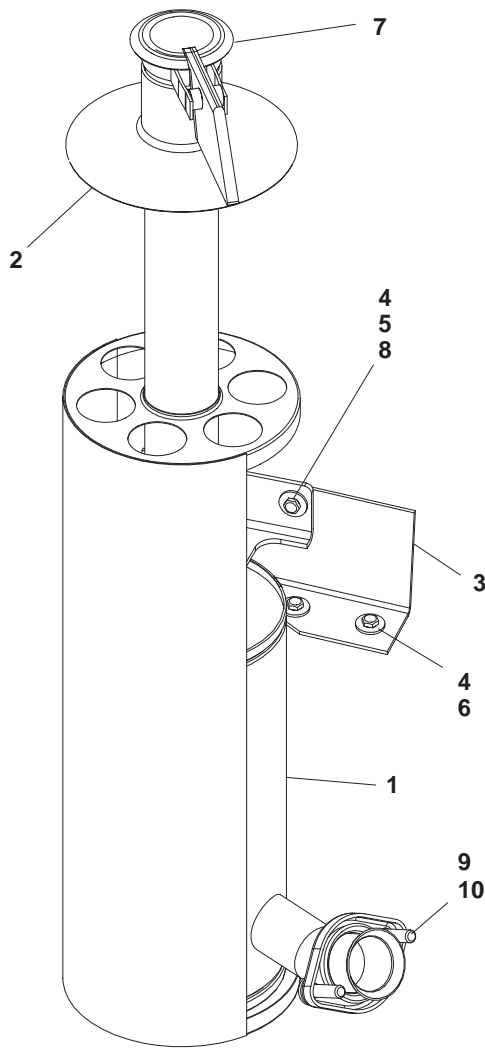
Exhaust Pipe



CP01,A299

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-1993	1	Tube, Exhaust	3	526-0356	2	Washer, Flat (7/16)
2	800-0315	2	Screw, Cap – Hex Head (7/16-14 x 1.75)	4	850-0055	2	Washer, Lock (7/16)

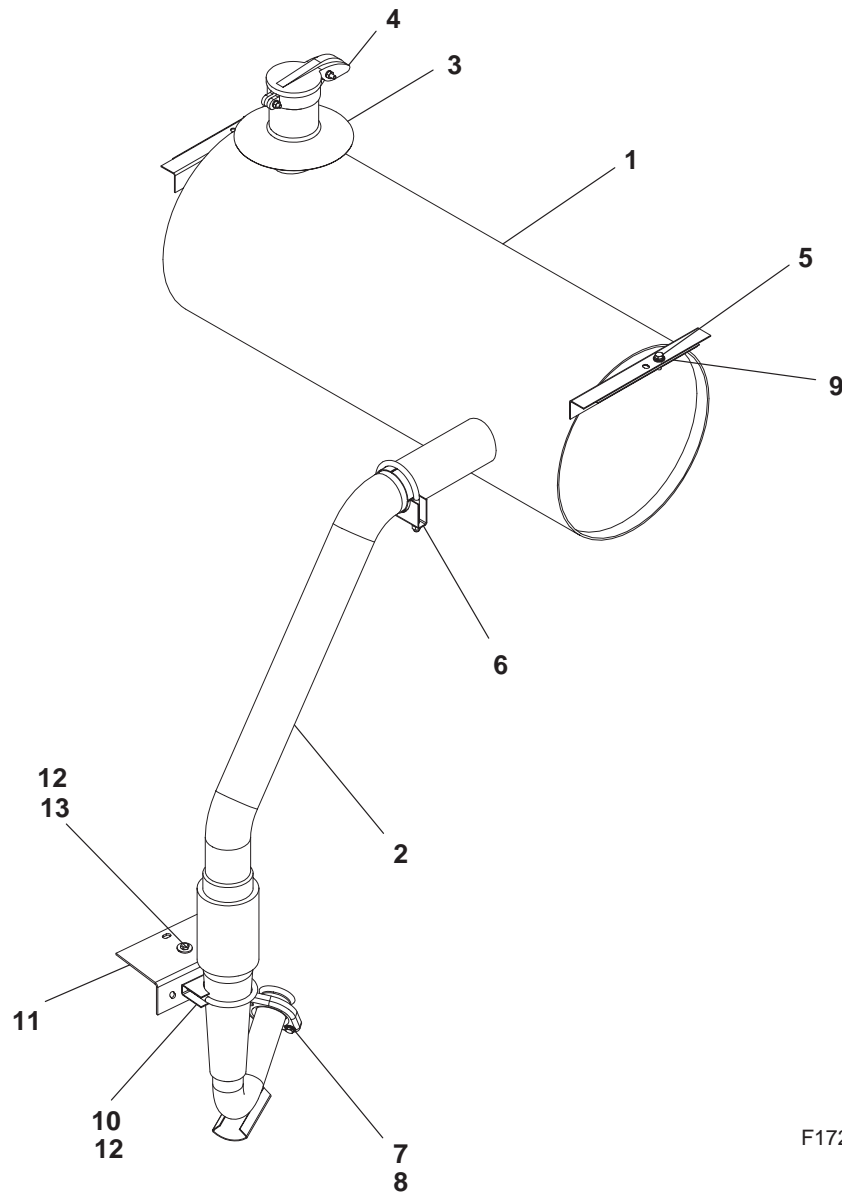
Muffler  
Residential



A276,F183

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-3200	1	Muffler – Residential	7	155-2062-09	1	Cap, Rain
2	155-3102-01	1	Shield, Rain (Housed)	8	800-0028	2	Screw, Cap – Hex Head (5/16-18 x 1)
3	155-3201	1	Bracket, Muffler	9	526-0356	2	Washer, Flat (7/16)
4	526-0113	6	Washer, Flat (11/32)	10	800-0315	2	Screw, Cap – Hex Head (7/16-14 x 1-3/4)
5	862-0015	2	Nut, Hex (5/16-18)				
6	800-0026	2	Screw, Cap – Hex Head (5/16-18 x 3/4)				

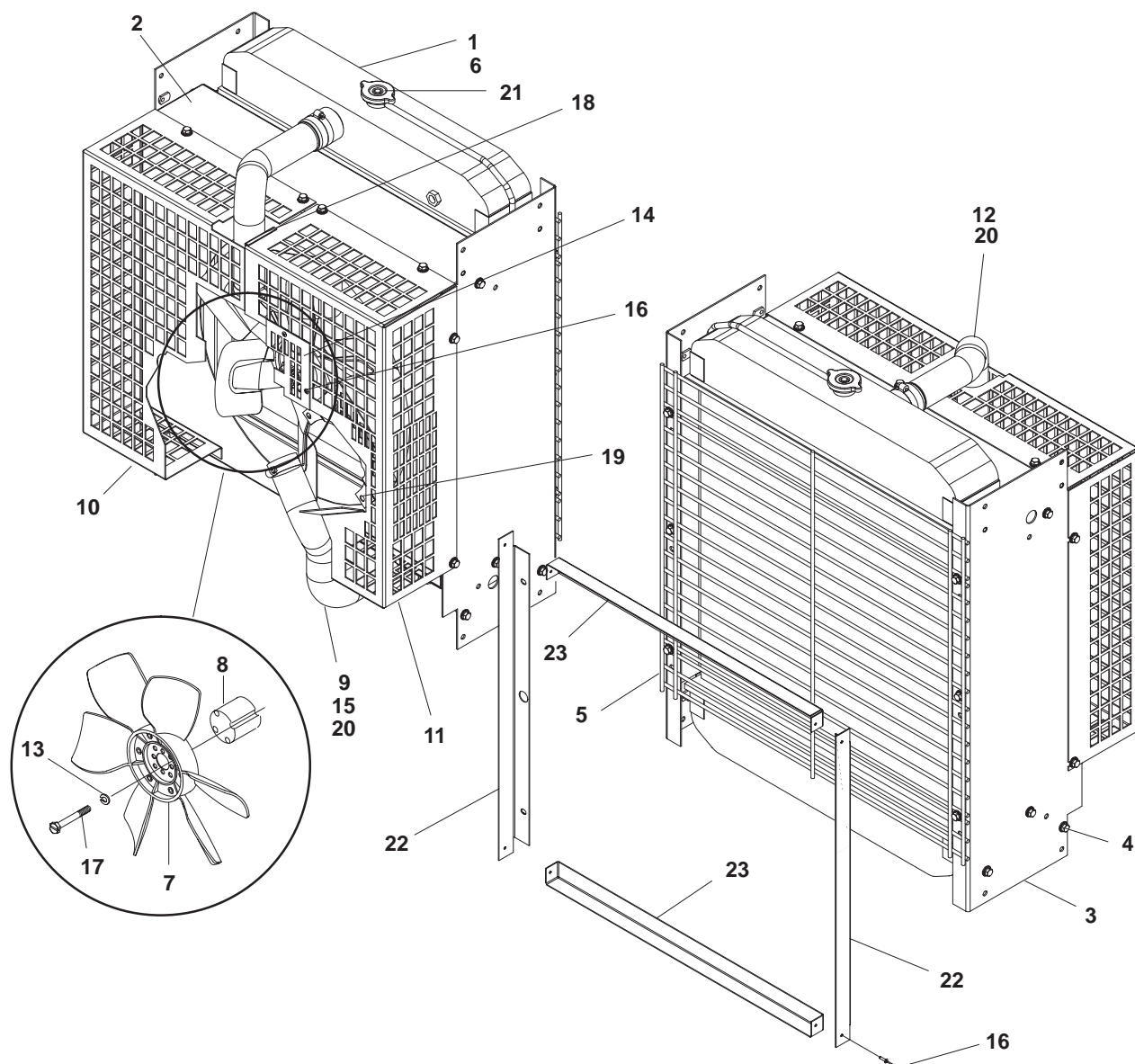
## Muffler Critical



F172,F173,L032,L036

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-3167	1	Muffler – Critical	8	800-0315	2	Screw, Cap – Hex Head (7/16-14 x 1-3/4)
2	155-3214	1	Tube, Exhaust	9	155-3219	2	Gasket, Muffler
3	155-3102-02	1	Shield, Rain	10	155-2175	1	Clamp, Muffler – 60 Hz
4	155-2062-10	1	Cap, Rain	11	155-3201	1	Bracket, Muffler – 60 Hz
5	821-6003-02	2	Screw, SEMS – Hex Head (M8 x 0.8 x 20)	12	526-0113	3	Washer, Flat (11/32) – 60 Hz
6	155-2175	1	Clamp, Muffler	13	800-0026	1	Screw, Cap – Hex Head (5/16-18 x 3/4) – 60 Hz
7	526-0356	2	Washer, Flat (7/16)				

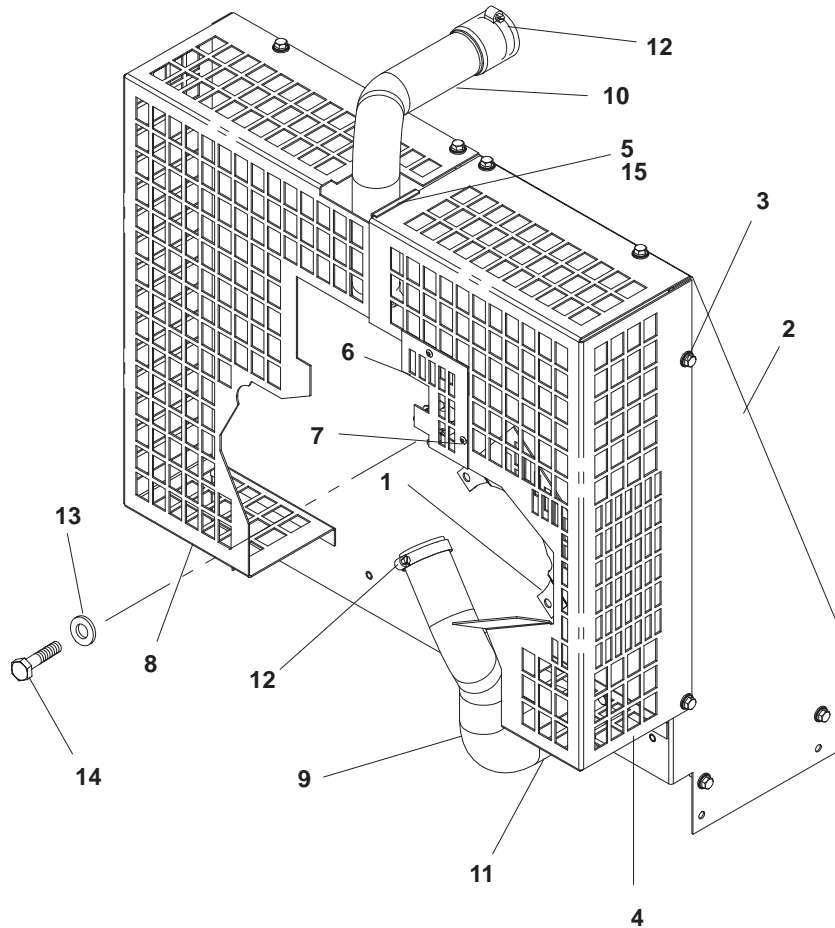
## Radiator



E074,E082,F013

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Radiator	11	130-4786	1	Guard, Fan – Left Side
	130-4596-01	1	Standard (40°C/104°F)	12	503-2083	1	Hose, Radiator – Inlet
	130-4596-02	1	Enhanced (50°C/122°F)	13	740-1006	4	Washer, Flat (M8)
2	130-4766	1	Shroud	14	130-4791	1	Plate, Fan Guard
3	130-4767	2	Side, Housing	15	503-0465	1	Clamp, Hose
4	821-6003-02	24	Screw, SEMS – Hex Head (M8 x 1.25 x 20)	16	818-0231-02	6	Rivet, Pop
5	130-4602	1	Grille (Unhoused Sets Only)	17	801-0519-02	4	Screw, Cap – Hex Head
6	504-0028	1	Cock, Drain	18	508-0285	1.0'	Edge, Protection
7	130-4806	1	Fan	19	130-4808	1	Guard, Alternator
8	130-4770-01	1	Spacer, Fan	20	503-0365	3	Clamp, Hose
9	503-2084	1	Hose, Radiator – Outlet	21	130-1788	1	Cap, Radiator
10	130-4787	1	Guard, Fan – Right Side	22	130-4623	2	Adapter, Duct
				23	130-4622	2	Adapter, Duct

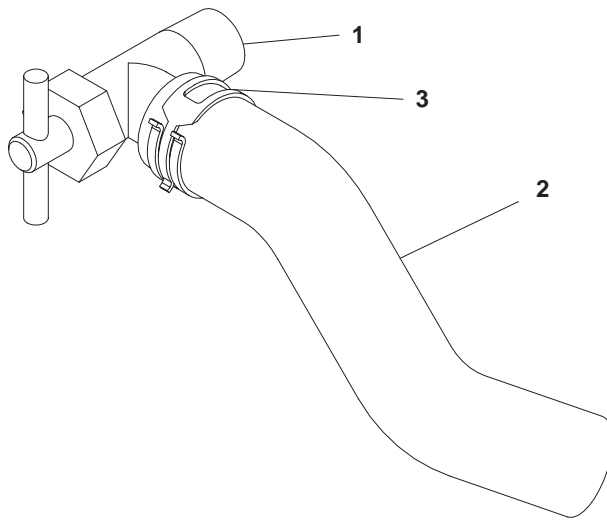
## Remote Radiator



E043

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4808	1	Guard, Alternator	8	130-4787	1	Guard, Fan – Right Side
2	405-6122	1	Panel, Front – Radiator Housing	9	503-2084	1	Hose, Radiator – Outlet
3	821-6003-02	14	Screw, SEMS – Hex Head (M8 x 1.25 x 20)	10	503-2083	1	Hose, Radiator – Inlet
4	130-4786	1	Guard, Fan – Left Side	11	503-0465	1	Clamp, Hose
5	508-0285	1	Edge, Protection	12	503-0365	3	Clamp, Hose
6	130-4791	1	Plate, Fan Guard	13	740-1006	4	Washer, Flat (M8)
7	818-0231-02	2	Rivet, Pop	14	801-0027	4	Screw, Cap – Hex Head (5/16-24 x .88)
				15	332-1794	A/R	Tie, Cable

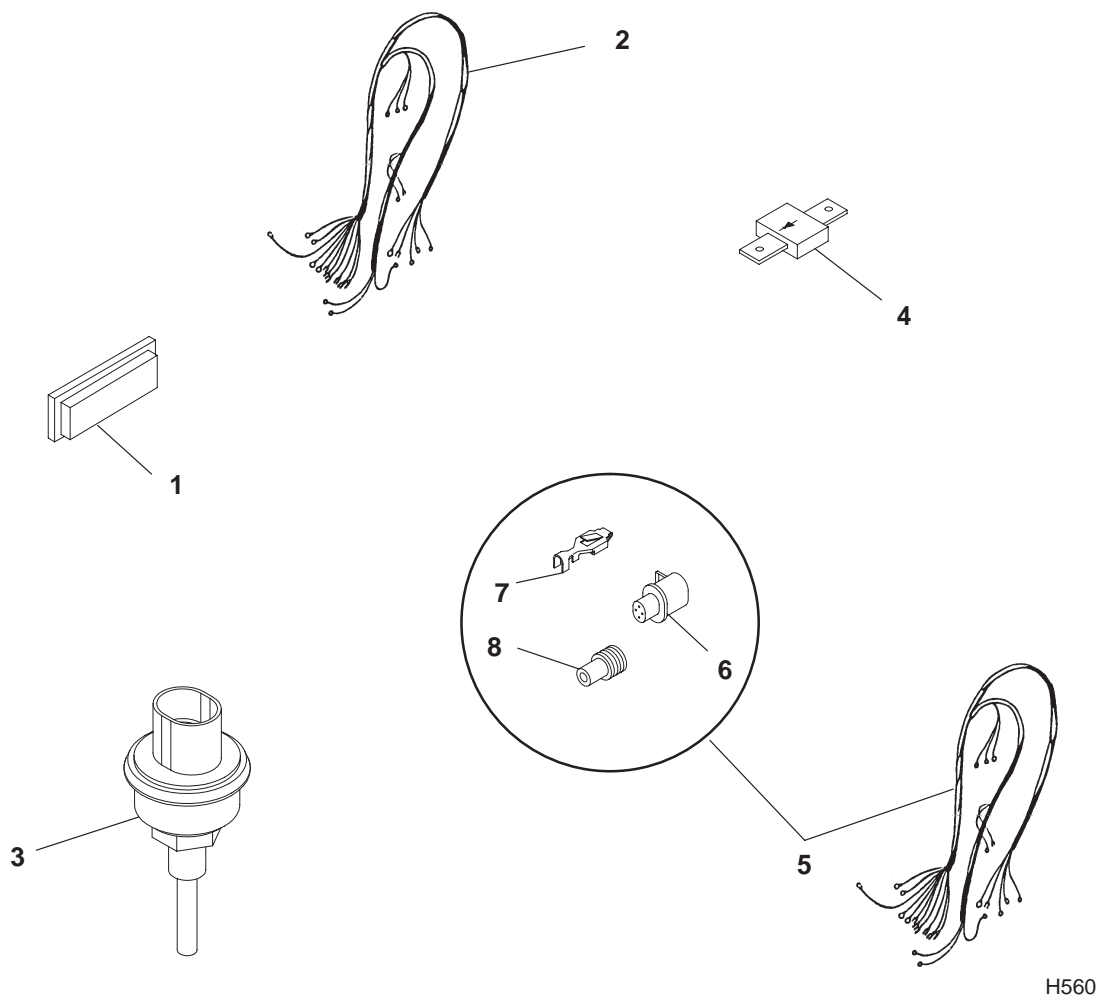
## Coolant Drain



E089

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	504-0176	1	Valve, Coolant Drain	3	503-0131	1	Clamp, Hose
2	503-0386	3'	Hose, Coolant Drain – Engine				

# **Low Coolant Level Sender With Continuously Monitored Low Coolant Level 12 Light Indicator Controls**

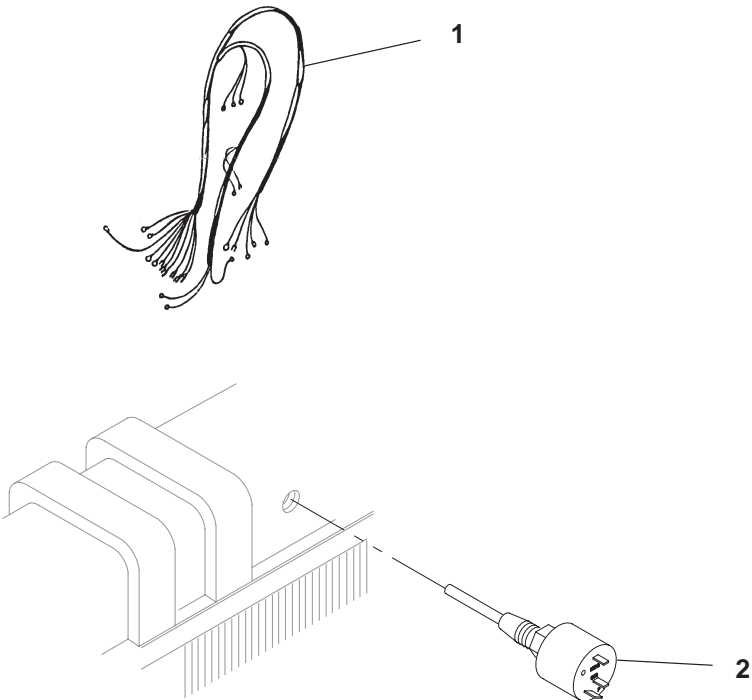


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	322-0431-07	1	Lens, Replacement	6	323-1765	1	*Housing, Connector (4 Pin)
2	338-3035-01	1	Harness, Low Coolant Level	7	323-1709	4	*Socket, Contact (Used in S3)
3	193-0468	1	Sender, Low Coolant Level	8	323-1708	4	*Seal, Cable
4	357-0030	1	Rectifier, Silicon				
5	338-3594	1	Harness, Pigtail (Includes Parts Marked *)				

\* – Parts Included in 338-3594 Pigtail Harness

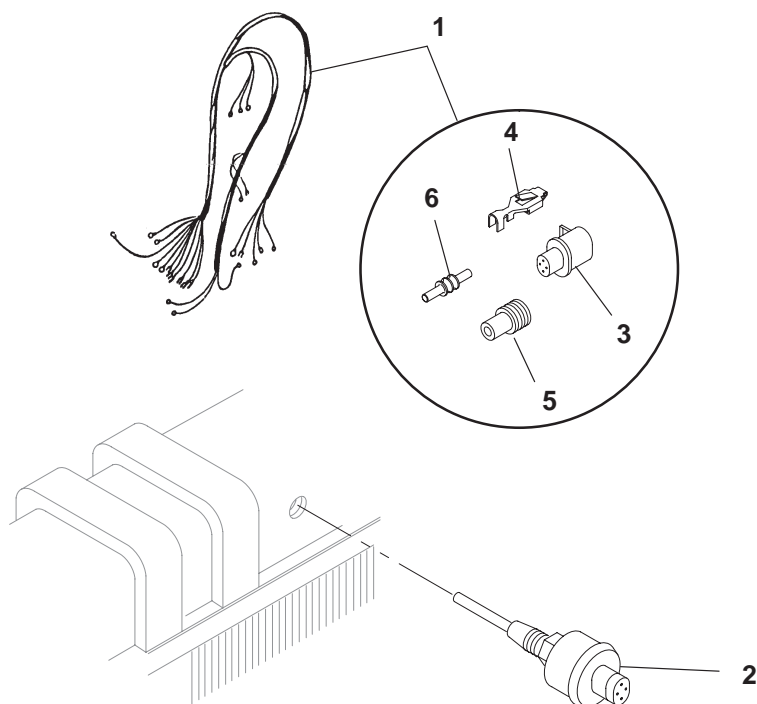


Low Coolant Level  
Without Continuously Monitored Low Coolant Level  
Spec A



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3668	1	Harness, Low Coolant Level	2	193-0481	1	Sender, Low Coolant Level

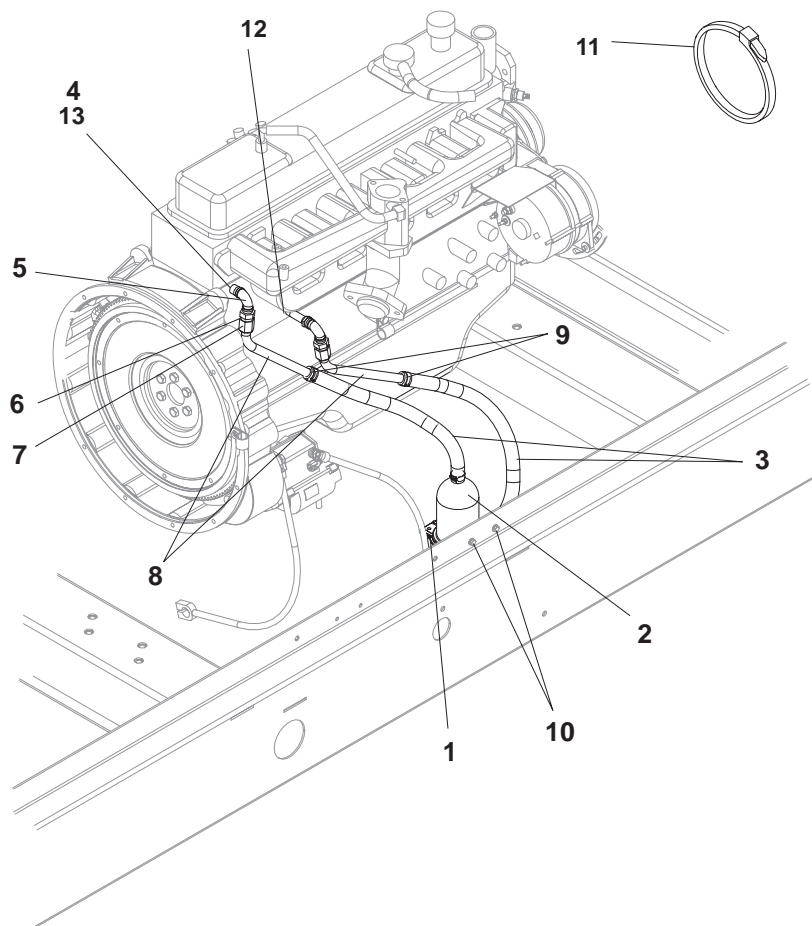
**Low Coolant Level**  
**Without Continuously Monitored Low Coolant Level**  
**Spec B**



H389,H559,H527

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3751	1	Harness, Low Coolant Level (Includes Parts Marked *)	5	323-1708	4	*Seal, Cable
2	193-0468	1	Sender, Low Coolant Level	6	323-1712	1	*Plug, Cavity
3	323-1765	1	*Housing, Connector (4 Pin)	* – Parts Included in 338-3751 Wiring Harness			
4	323-1709	4	*Socket, Contact (Used in S7)				

## Water Heater

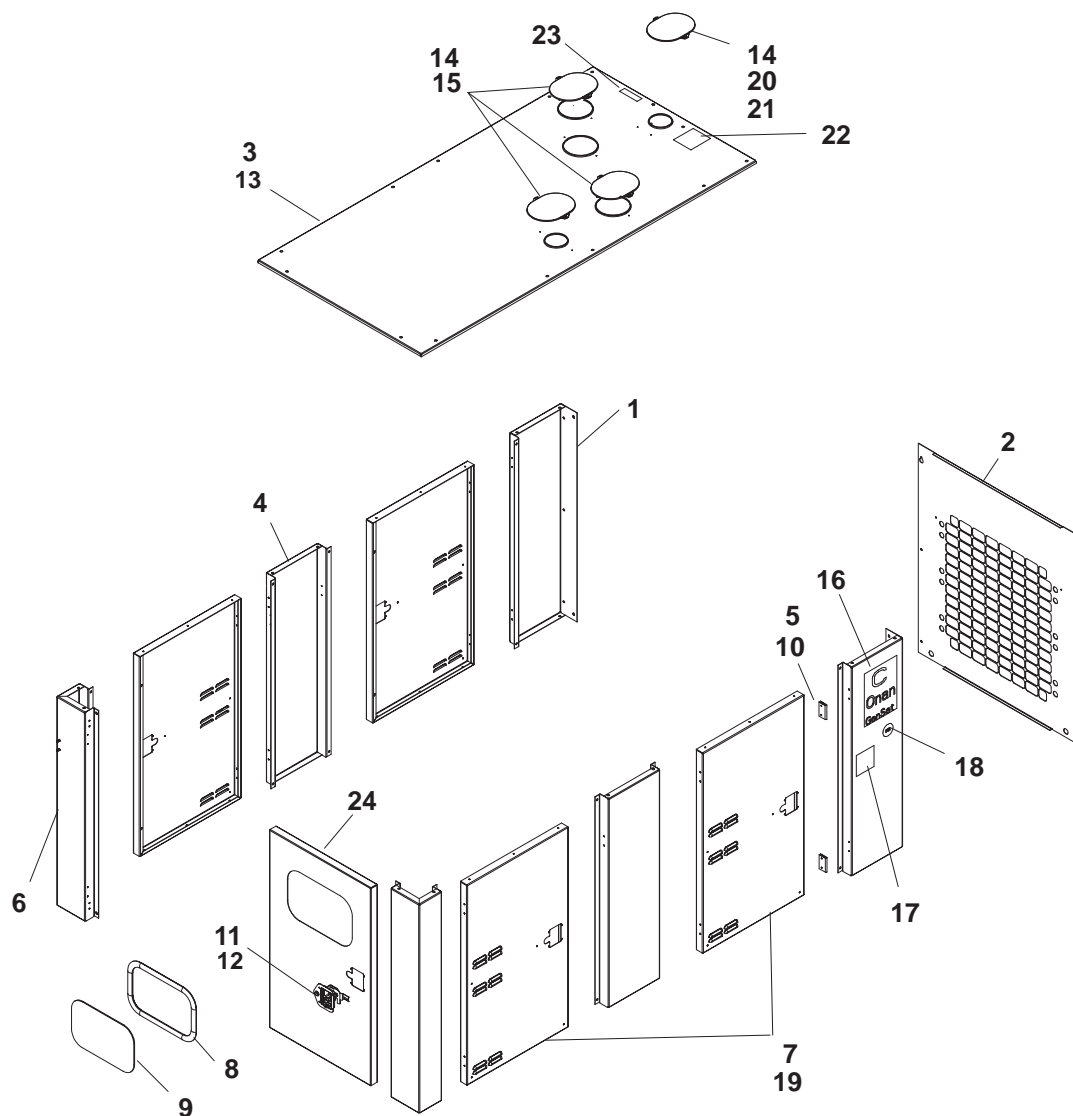


H036,H562,H074,H559,H560

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0616	1	Bracket, Mounting – Heater	8	130-4281	2	Tube, Heater
2			Heater, Engine Coolant	9	503-0183	4	Clamp, Hose
	333-0588-03	1	120 Volt	10	821-6002-03	4	Screw, Hex Head (M6 x 1 x 16)
	333-0588-04	1	240 Volt	11	332-0941	1	Tie, Cable
3	503-1988	2.8'	Hose, Engine Coolant	12	505-0017	1	Bushing, Reducer (3/8 x 1/4 NPT)
4	505-0101	1	Nipple, Pipe (3/8 NPT x 1)	13	505-0060	1	* Tee, Pipe
5			Elbow, Pipe (3/8 x 90°)				
	505-0039	1	Detector Control				
	505-0039	2	Sentinel Control				
6	502-1215	2	Connector, Male				
7	505-0071	1	Nipple, Pipe (1/4 NPT x 2)				

\* = Used with Detector Control.

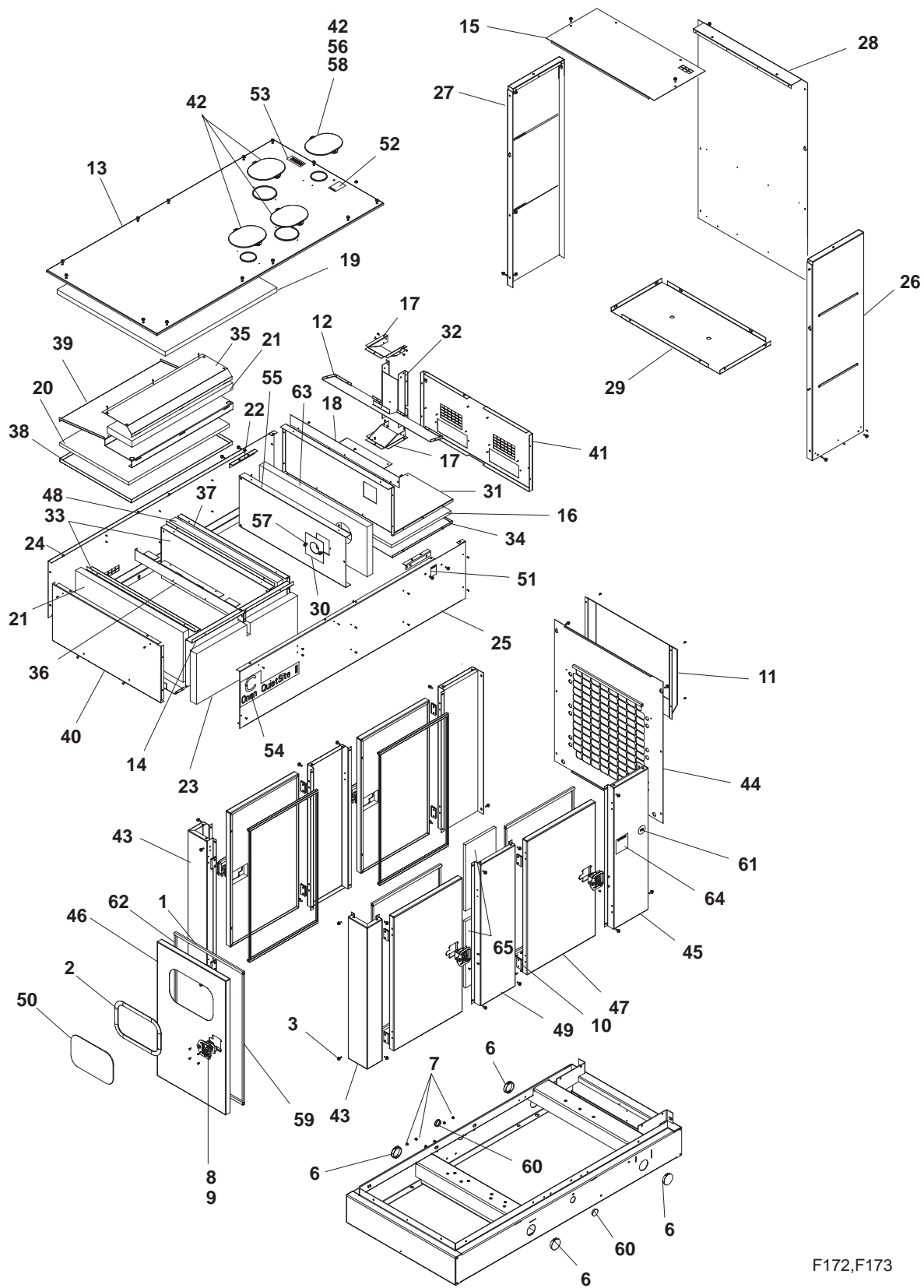
## Housing Standard Weather Protective



F180,F183

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-5908	2	Panel, Side – Radiator Housing	13	821-6003-02	18	Screw, SEMS – Hex Head (M8 x 1.25 x 20)
2	405-5910	1	Panel, Front – Radiator Housing	14	155-3238	4	Cover, Exhaust
3	405-6018	1	Roof	15	818-0237-01	6	Rivet, Pop (1/8)
4	405-5745	2	Post, Housing – Center	16	098-6139-06	2	Label, Model Identification
5	406-0831	10	Hinge, Housing	17	098-4732	2	Label, Warning
6	405-5916	2	Post, Corner – Housing	18	098-4500	2	Label, Prototype
7	405-5832	4	Door, Housing	19	895-0382	10	Bumper, Door
8	895-0363	4.2'	Weatherstrip (Units with Window)	20	870-0504	1	Nut, Captive – Floating (M6 x 1.0)
9	319-2653	1	Window, Control	21	821-6002-03	2	Screw, SEMS – Hex Head (M6 x 1.0 x 16)
10	818-0231-02	60	Rivet – Pop (3/16)	22	098-4730	1	Label, Warning
11	406-0835	5	Latch, Door	23	098-5429	1	Label, Coolant Fill
12	406-0782	5	Key, Replacement (Fits Latch 406-0835)	24	405-5903	1	Door, Housing – Rear W/Window Cutout
					405-5902	1	Door, Housing – Rear WO/Window Cutout

# Housing Quiet Site



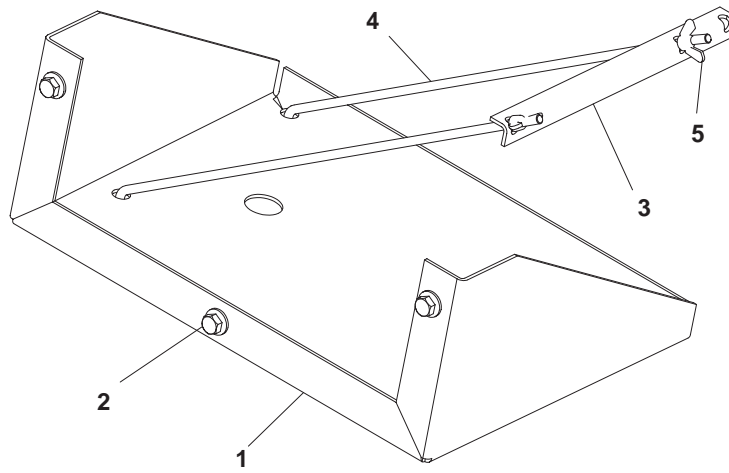
F172,F173

## Housing Quiet Site

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	895-0384	11	Weather Seal Top & Bottom	38	405-5955	1	Inlet, Perforated
2	895-0363	4.2'	Weather Strip – Window	39	405-5954	1	Duct, Bottom – Inlet
3	821-6003-02	47	Screw (M8 x 1.25 x 20)	40	405-5953	1	Extension, Rear
4	818-0237-01	32	Rivet (1/8")	41	405-5952	1	Extension, Front
5	818-0231-02	105	Rivet (3/16")	42	155-3238	4	Cover, Exhaust
6	517-0322	4	Plug, Hole	43	405-5916	2	Post, Corner – Housing
7	517-0131	6	Plug, Hole	44	405-5910	1	Panel, Front – Radiator Housing
8	406-0835	5	Latch, Door				
9	406-0782	1	Key, Replacement (fits Latch, Door 406-0835)	45	405-5908	2	Panel, Side – Radiator Housing
10	406-0831	10	Hinge	46	405-5903	1	Door, Housing W/Window Cutout
11	405-6035	1	Baffle, Air – Discharge				
12	405-6068	1	Baffle, Recirculation – Muffler	47			Door, Housing
13	405-6018	1	Roof		405-5902	4	Sets W/Window
14	405-6015	1	Cover, Perforated		405-5902	5	Sets WO/Window
15	405-6010	1	* Cover, Discharge	48	405-5841	2	Fiberglass
16	405-6005	1	Fiberglass – Muffler	49	405-5745	2	Post, Housing – Center
17	405-6003	2	Box, Radiator Fill	50	319-2653	1	Window, Control (if equipped)
18	405-6029	1	Barrier, Air Flow	51	098-7451	2	Label, Caution
19	405-6001-01	1	Fiberglass	52	098-4730	1	Label, Caution
20	405-6000-03	1	Fiberglass	53	098-5429	1	Label, Coolant Fill
21	405-6000-02	1	Fiberglass	54	098-7470	2	Label, Model
22	405-5998	2	Support, Muffler	55	405-6034	1	Retainer, Insulation
23	405-5997	1	Fiberglass	56	821-6002-03	2	Screw, Hex Head (M6 x 1.0 x 16)
24	405-5996	1	Extension, Side – RH				
25	405-5995	1	Extension, Side – LH	57	526-0011	2	Washer, Flat
26	405-5991-02	1	* Side, Discharge – LH	58	870-0504	2	Nut, Cage
27	405-5991-01	1	* Side, Discharge – RH	59	895-0385	10	Weather Seal – Side
28	405-5990	1	* Discharge, Front	60	517-0138-07	2	Plug
29	405-5988	1	* Discharge, Bottom	61	098-4500	2	Label, Prototype Tested
30	405-5987	1	Barrier, Air	62	895-0386	5	Weather Seal
31	405-5966	1	Box, Muffler	63	405-6109	1	Fiberglass
32	405-6030	1	Fill Neck, Radiator	64	098-4732	2	Label, Warning
33	405-5961	2	Cover, Perforated	65	128-0154-03	2	Insulation, Foam
34	405-5960	1	Retainer, Insulation				
35	405-5958	1	Inlet, Perforated				
36	405-5957	2	Angle, Support				
37	405-5956	1	Duct, Support				

\* – Parts used only on F173 Housing

## Battery Tray

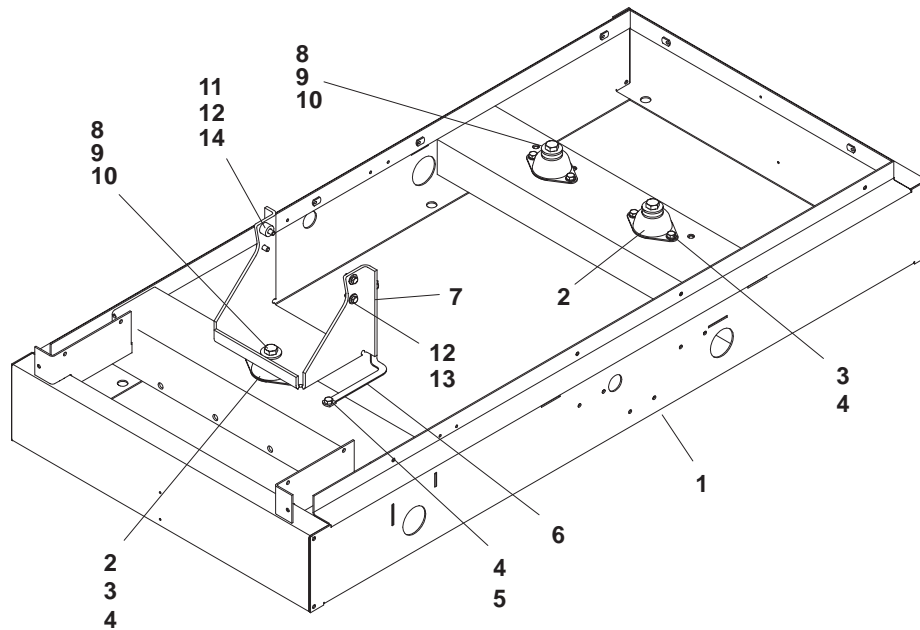


F065

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4267	1	Tray, Battery	3	416-1033	1	Hold Down, Battery
2	821-6003-02	3	Screw, SEMS – Hex Head (M8 x 1.5 x 20)	4	416-0993-02	2	Rod, Hold Down – Battery
				5	865-0030	2	Nut, Wing (M6)



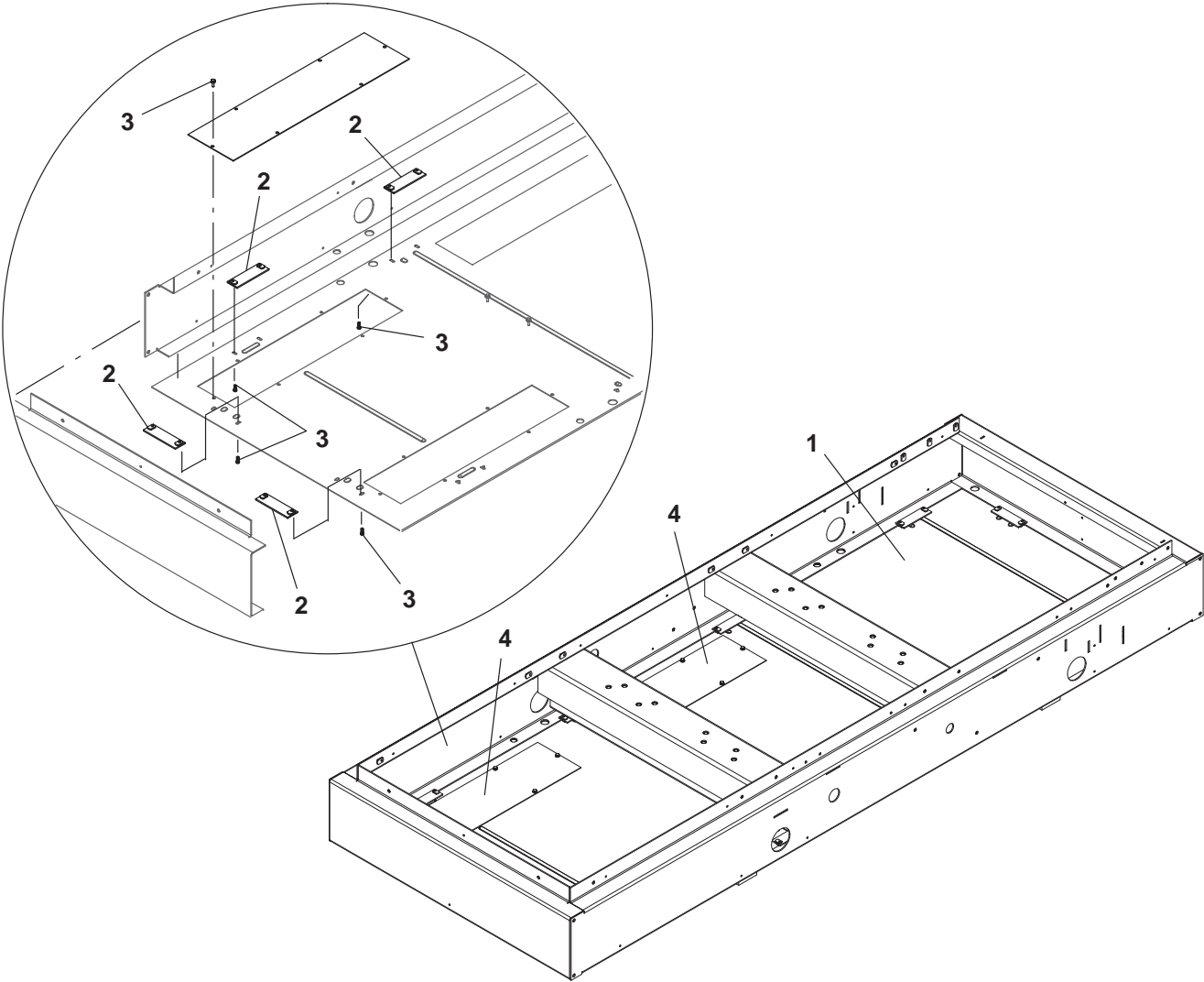
## Skid



F179,F177

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4270	1	Skid	9	800-0607	3	Screw, Cap – Hex Head (Grade 8) (3/4–10 x 2.0)
	403-4241-01	1	Non-Housing Compatible Housing Compatible	10	862-0044	3	Nut, Hex (3/4–10)
2	402-0730	3	Cushion, Vibration Isolator	11	130-3660-03	1	Spacer, Shock Absorbing
3	526-0433	6	Washer, Hardened	12	526-0249-01	4	Washer, Flat – Hardened (7/16)
4	800-2543-02	7	Screw, Cap – Hex Head (M12 x 1.75 x 25)	13	800-0608-01	4	Screw, Cap – Hex Head (Grade 8) (7/16–14 x 1.0)
5	856-0013	2	Washer, Lock – EIT (1/2)	14	800-0608-02	1	Screw, Cap – Hex Head (Grade 8) (7/16–14 x 1.75)
6	337-0090	1	Strap, Ground				
7	403-4248	1	Bracket, Mounting – Engine				
8	526-0238-01	5	Washer, Flat (3/4)				

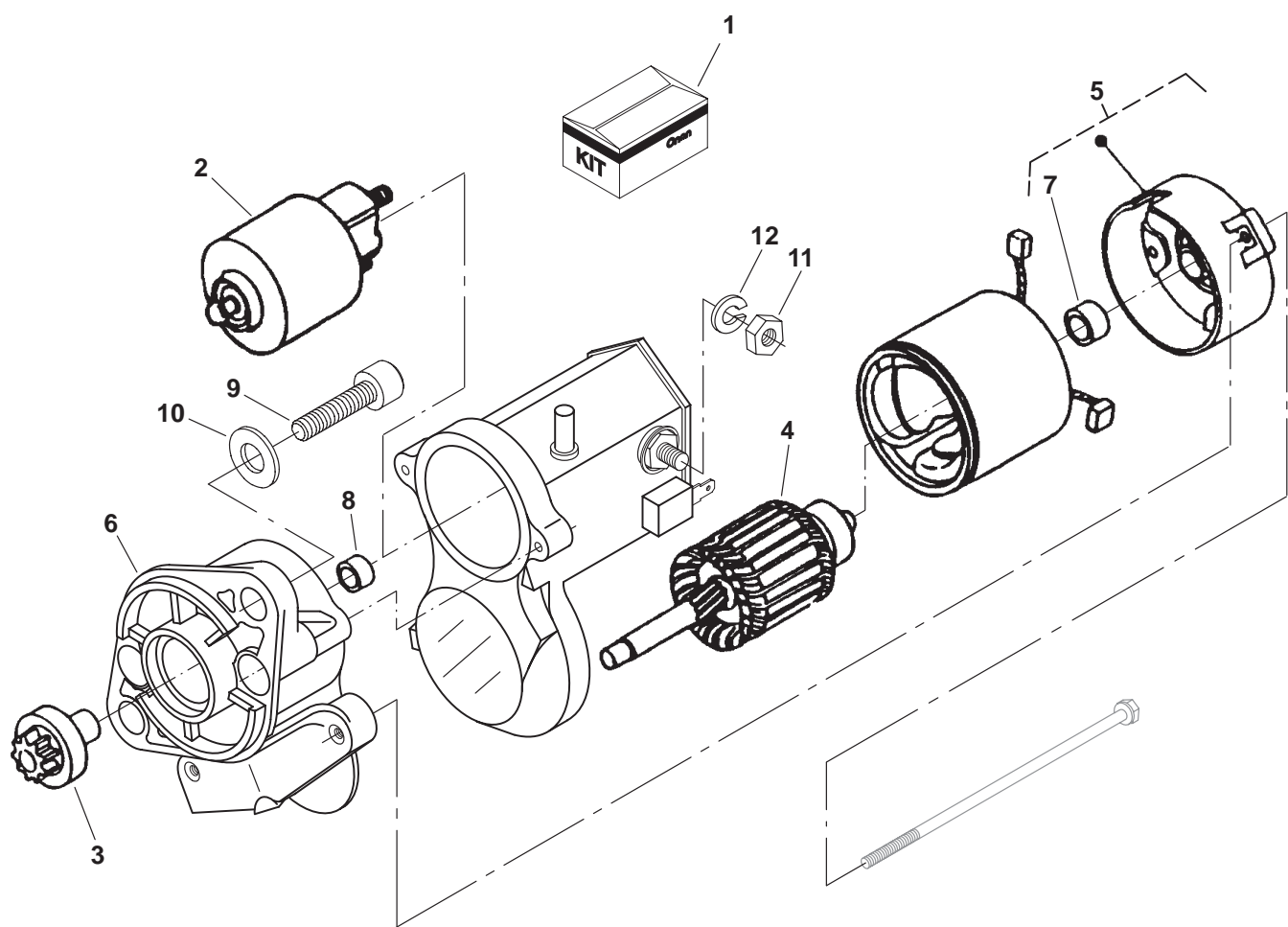
Skid Pan



F170

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4107	1	Pan, Skid	4	403-4116	3	Cover, Stub-Up
2	403-4110	10	Clamp				
3	821-6002-03	38	Screw, Self-Locking – Hex Washer Head (M6 x 1 x 16mm)				

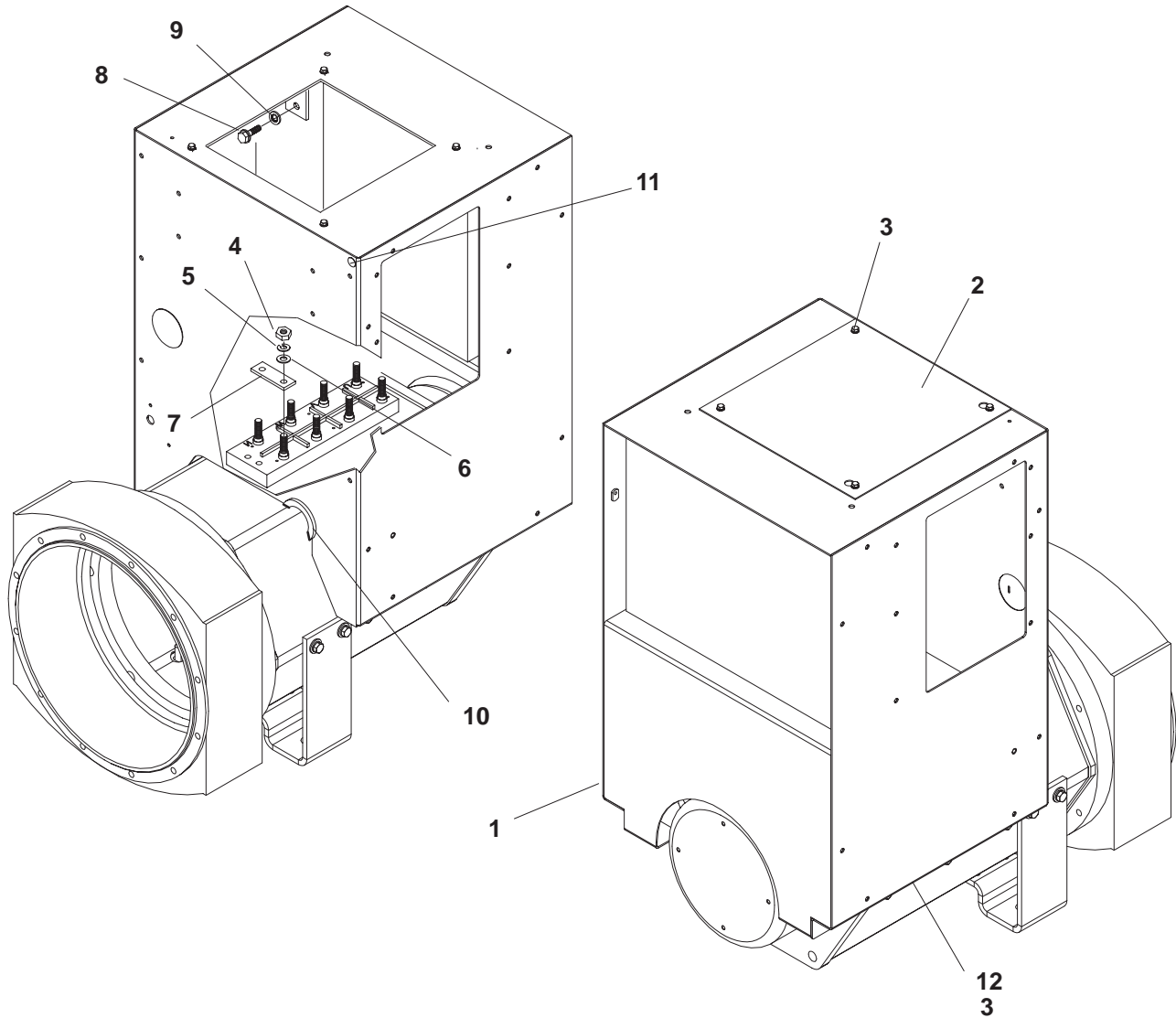
Starter Components



CP01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-2213	1	Starter (1.4kW)	7	191-2221	1	Bearing, Commutator End
1	191-2215	1	Kit, Starter Brush	8	191-2222	1	Bearing, Pinion End
2	191-2216	1	Switch	9	186-6675	2	Screw, Socket Head Cap (M10 x 1.5 x 35mm)
3	191-2217	1	Clutch	10	186-6619	2	Washer, Spring (M10)
4	191-2218	1	Armature	11	186-6274	1	Nut, Hex (M8 x 1.25)
5	191-2219	1	Frame, Commutator End	12	186-6618	1	Washer, Spring (M8)
6	191-2220	1	Housing				

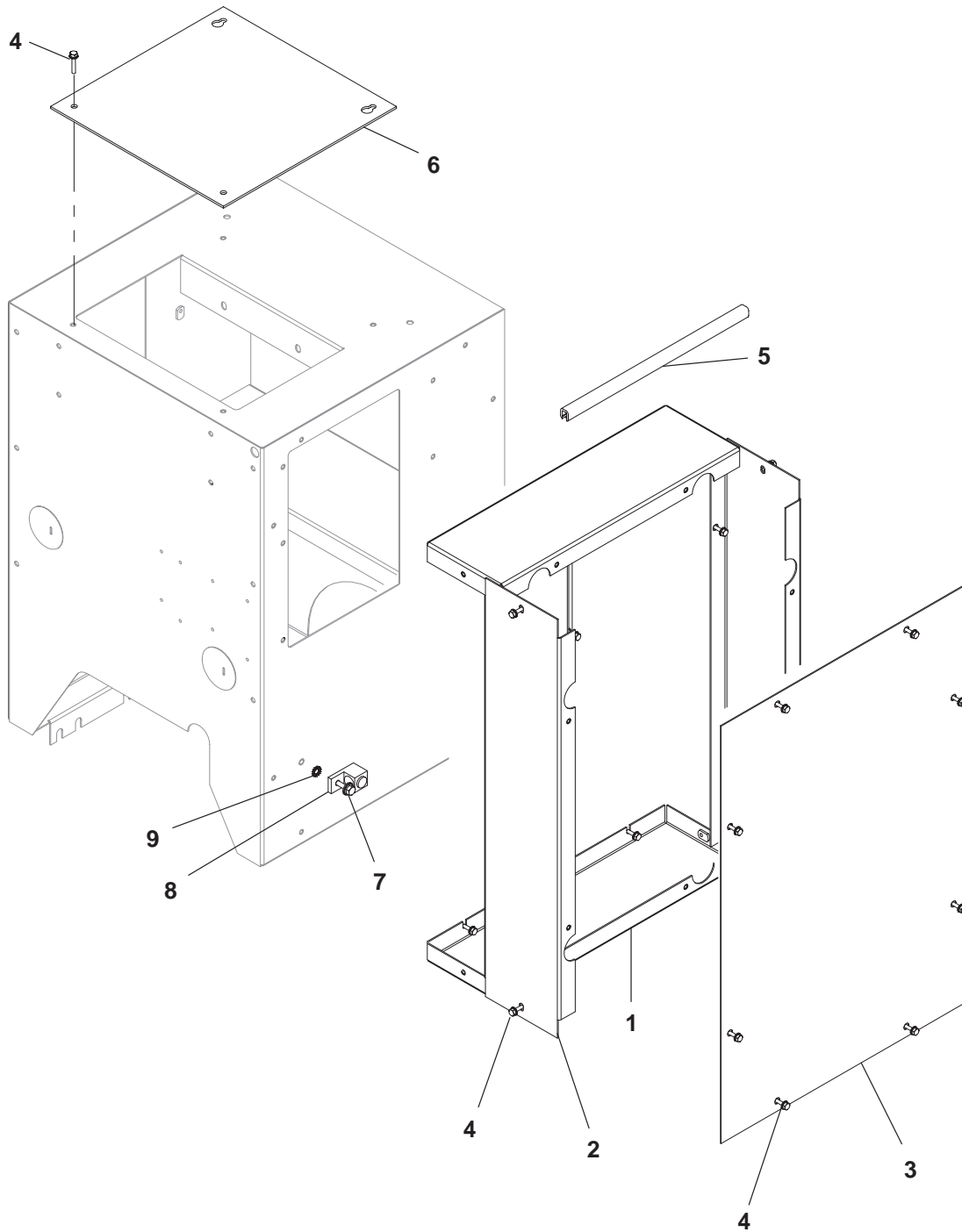
## Control Housing



CP01

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3208	1	Box, Control	7	332-2987	4	Link, Terminal
2	319-2996	1	Cover, Housing – Control	8	821-5003-01	4	Screw, Lock (5/16-18 x .50)
3	821-6002-03	9	Screw, SEMS – Hex Head (M6 x 1 x 16)	9	856-0008	1	Washer, Lock – ET (5/16)
4	860-2009	8	Nut, Machine – Hex (M10 x 1.5)	10	508-0305-02 .33'		Edging
5	850-2010	8	Washer, Lock (M10)	11	517-0135	1	Plug, Hole
6	526-2120	8	Washer, Flat (M10)	12	319-3207	1	Bracket, Mounting – Control

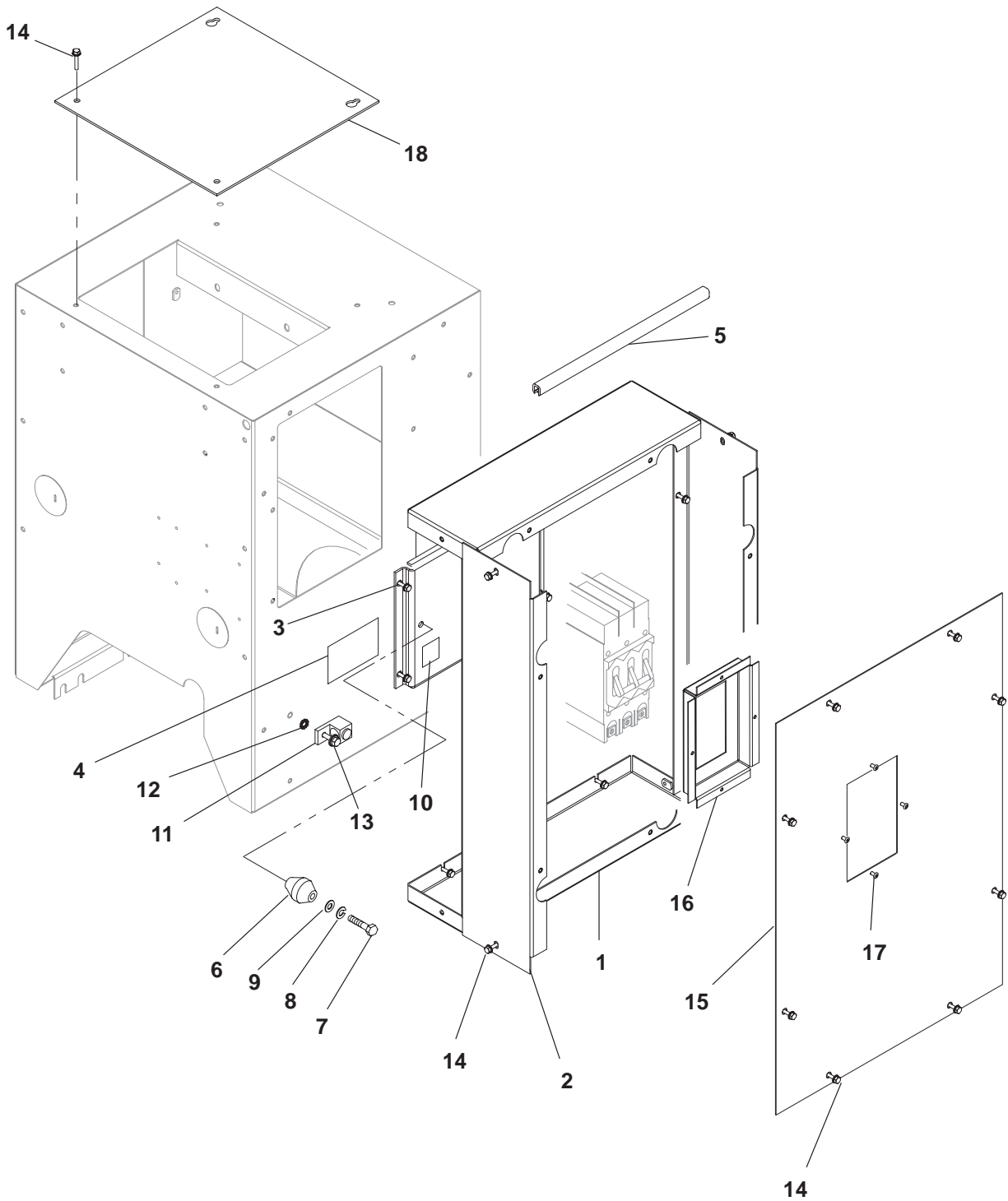
## Entrance Box



K882

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3072	2	Panel, End – CB Box	6	319-2996	1	Cover, Control Housing
2	319-2978	2	Panel, Side – CB Box	7	821-6003-02	1	Screw, Hex Head (M8 x 1.25 x 20)
3	319-2979-02	1	Cover, CB Box	8	332-1473	1	Lug, Solderless
4	821-6002-03	24	Screw, Hex Head (M6 x 16)	9	856-0008	1	Washer, Lock – EIT (5/16)
5	508-0239	–	Edging – Bulk (Order By The Foot – 2 Feet Required)				

## Circuit Breaker Box



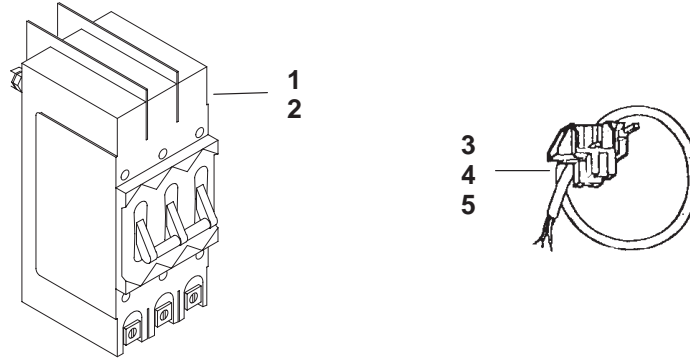
K028

## Circuit Breaker Box

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3072	2	Panel, End – CB Box	16			Cutout, CB Box
2	319-2978	2	Panel, Side – CB Box				UL
3	319-3149	1	Bracket, Mounting – CB	319-3150	1		600 Volt, 300–630 Amp, 3 Pole
4	098-2304	1	Label, Warning	319-3240	1		240 Volt, 300–400 Amp, 2/3 Pole
5	508-0239	–	Edging – Bulk (Order By The Foot – 2 Feet Required)	319-3242	1		240 Volt, 100–250 Amp, 2/3 Pole
6	332-2744-07	1	*Standoff, Insulator	319-3242	1		600 Volt, 50–250 Amp, 3 Pole
7	800-0048	2	*Screw, Cap – Hex Head (3/8–16 x .75)				IEC
8	850-0050	2	*Washer, Lock (3/8)	319-3150	1		690 Volt, 300–630 Amp, 3/4 Pole
9	526-0029	1	*Washer, Flat (3/8)	319-3242	1		690 Volt, 70–250 Amp, 3/4 Pole
10	098-5854-04	1	*Label, Bus – Warning	17	818-0231-02	4	Rivet, Pop
11	332-1473	1	Lug, Solderless	18	319-2996	1	Cover, Housing – Control
12	856-0008	1	Washer, Lock – EIT (5/16)				
13	821-6003-02	1	Screw, SEMS – Hex Head (M8 x 1.25 x 20)				
14	821-6002-03	24	Screw, SEMS – Hex Head (M6 x 1 x 16)				
15	319-3151	1	Cover, CB Box				

\* = UL Rated Breakers only.

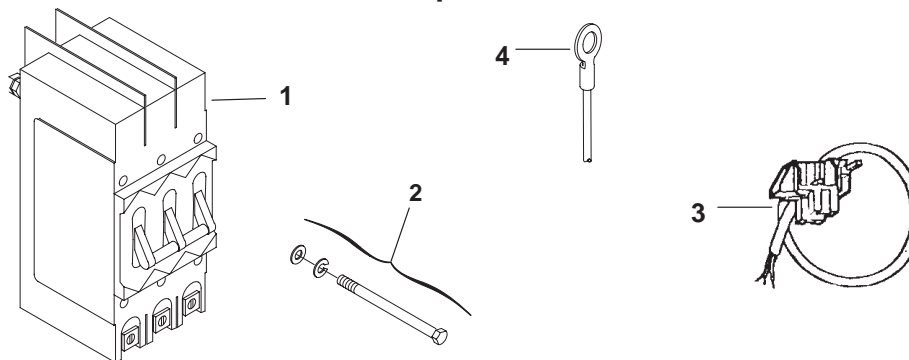
## Circuit Breaker Spec A



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit – Molded Case	2			Switch, Disconnect (600 Volt)
			600 Volt		320-1992-01	1	1200 Amp Frame
			3 Pole (UL & IEC)		320-1992-02	1	800 Amp Frame
320-1970-03	1		250 A Frame/200 A (KM15)		320-1991-01	1	600 Amp Frame
320-1970-04	1		250 A Frame/175 A (KM14)		320-1991-02	1	400 Amp Frame
320-1970-05	1		250 A Frame/150 A (KM13)	3			Trip, Shunt (12 VDC) (600 Volt)
320-1970-06	1		250 A Frame/125 A (KM12)				3 Pole
320-1975-01	1		100 A Frame/100 A (KM11)		320-1977-02	1	300 – 1200 Amp (UL & IEC)
320-1975-02	1		100 A Frame/90 A (KM10)		320-1978-02	1	125 – 250 Amp (IEC)
320-1975-03	1		100 A Frame/80 A (KM09)		320-1979-02	1	15 – 100 Amp (IEC)
320-1975-04	1		100 A Frame/70 A (KM08)				4 Pole
320-1975-05	1		100 A Frame/60 A (KM07)		320-1981-02	1	320 – 630 Amp (IEC)
320-1975-06	1		100 A Frame/50 A (KM06)		320-1979-02	1	80 – 250 Amp (IEC)
			4 Pole (IEC)	4			Contact, Auxiliary (600 Volt)
320-1959-12	1		250 A Frame/200A (KM56)				3 Pole
320-1959-13	1		250 A Frame/160 A (KM55)		320-1977-01	1	300-1200 Amp (UL & IEC)
320-1959-14	1		250 A Frame/125 A (KM54)		320-1978-01	1	125 – 250 Amp (IEC)
320-1959-15	1		100 A Frame/100 A (KM53)		320-1979-01	1	15 – 100 Amp (IEC)
320-1959-16	1		100 A Frame/80 A (KM52)				4 Pole
			240 Volt (UL)				320 – 630 Amp (IEC)
			2 Pole				80 – 250 Amp (IEC)
320-1962-03	1		400 A Frame/300 A (KB24)	5			Alarm, Trip (600 Volt)
320-1961-01	1		250 Amp (KB23)		320-1979-04	1	15 – 250 Amp (IEC)
320-1961-02	1		225 Amp (KB22)				
320-1961-03	1		200 Amp (KB21)				
320-1961-04	1		175 Amp (KB20)				
			3 Pole				
320-1961-09	1		225 Amp (KD22)				
320-1961-10	1		200 Amp (KD21)				
320-1961-11	1		175 Amp (KD20)				
320-1961-12	1		150 Amp (KD19)				
320-1961-13	1		125 Amp (KD18)				



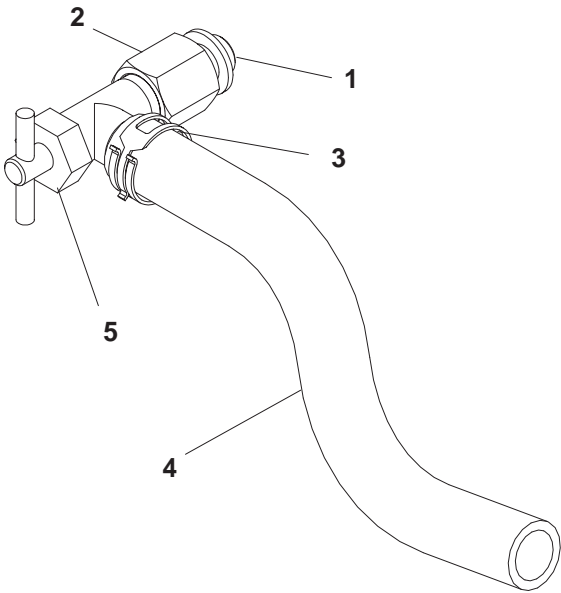
## Circuit Breaker Spec B



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit <b>2 Pole (UL)</b>	2			Package, Hardware – Circuit Breaker Mounting (Includes Screws, Nuts and Lock Washers)
	320-1961-07	1	100 Amp (240 Volts)		320-1986-08	1	Used With 320-1959-XX Circuit Breakers
	320-1961-06	1	125 Amp (240 Volts)		320-1986-07	1	Used With 320-1960-XX Circuit Breakers (Screws Only)
	320-1961-05	1	150 Amp (240 Volts)		320-1986-05	1	Used With 320-1962-XX Circuit Breakers (Screws Only)
	320-1961-04	1	175 Amp (240 Volts)				
	320-1961-03	1	200 Amp (240 Volts)				
	320-1961-02	1	225 Amp (240 Volts)				
	320-1961-01	1	250 Amp (240 Volts)				
	320-1962-03	1	* 300 Amp (240 Volts)				
			<b>3 Pole (UL)</b>	3			<b>Accessories, Circuit Breaker: The following are used on 320-1959-XX and 320-1960-XX Circuit Breakers</b>
	320-1961-14	1	100 Amp (240 Volts)		320-1981-02	1	Trip, Shunt (12V)
	320-1961-13	1	125 Amp (240 Volts)		320-1981-01	2	Switch – Used as an Auxiliary Contact or Trip Alarm
	320-1961-12	1	150 Amp (240 Volts)				
	320-1961-11	1	175 Amp (240 Volts)				
	320-1961-10	1	200 Amp (240 Volts)				
	320-1961-09	1	225 Amp (240 Volts)				
	320-1961-08	1	250 Amp (240 Volts)				
			<b>3 Pole (UL &amp; IEC)</b>	4			Lead (Quantity Used As Required)
	320-1959-22	1	* 15 Amp (600/750 Volts)		226-0893	1	3/8" Ring Terminal End to 1" Stripped End – No Markings (33") (#1/0 Wire)
	320-1959-21	1	* 20 Amp (600/750 Volts)		226-3505-01	1	3/8" Ring Terminal End to 1" Stripped End – No Markings (30") (#4 Wire)
	320-1959-20	1	* 30 Amp (600/750 Volts)		226-3505-03	1	3/8" Ring Terminal End to 3/8" Ring Terminal End – Marked "LO" (30") (#4 Wire)
	320-1959-19	1	* 40 Amp (600/750 Volts)		226-3505-04	1	3/8" Ring Terminal End to 3/8" Ring Terminal End – Marked "LO" (30") (#1/0 Wire)
	320-1959-18	1	* 50 Amp (600/750 Volts)				
	320-1959-17	1	* 60 Amp (600/750 Volts)				
	320-1959-10	1	* 70 Amp (600/750 Volts)				
	320-1959-09	1	* 80 Amp (600/750 Volts)				
	320-1959-08	1	* 90 Amp (600/750 Volts)				
	320-1959-07	1	* 100 Amp (600/750 Volts)				
	320-1959-06	1	* 125 Amp (600/750 Volts)				
	320-1959-05	1	* 150 Amp (600/750 Volts)				
	320-1959-04	1	* 175 Amp (600/750 Volts)				
	320-1959-03	1	* 200 Amp (600/750 Volts)				
	320-1959-02	1	* 225 Amp (600/750 Volts)				
	320-1959-01	1	* 250 Amp (600/750 Volts)				
	320-1960-06	1	* 300 Amp (600/750 Volts)				
			<b>4 Pole (IEC)</b>				
	320-1959-16	1	* 80 Amp (750 Volts)				
	320-1959-15	1	* 100 Amp (750 Volts)				
	320-1959-14	1	* 125 Amp (750 Volts)				
	320-1959-13	1	* 160 Amp (750 Volts)				
	320-1959-12	1	* 200 Amp (750 Volts)				
	320-1959-11	1	* 250 Amp (750 Volts)				
	320-1960-10	1	* 320 Amp (750 Volts)				

\* – Includes Mounting Hardware

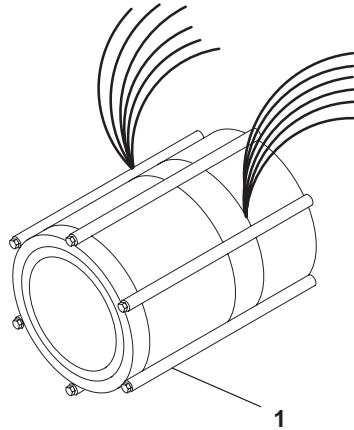
Oil Drain



H268

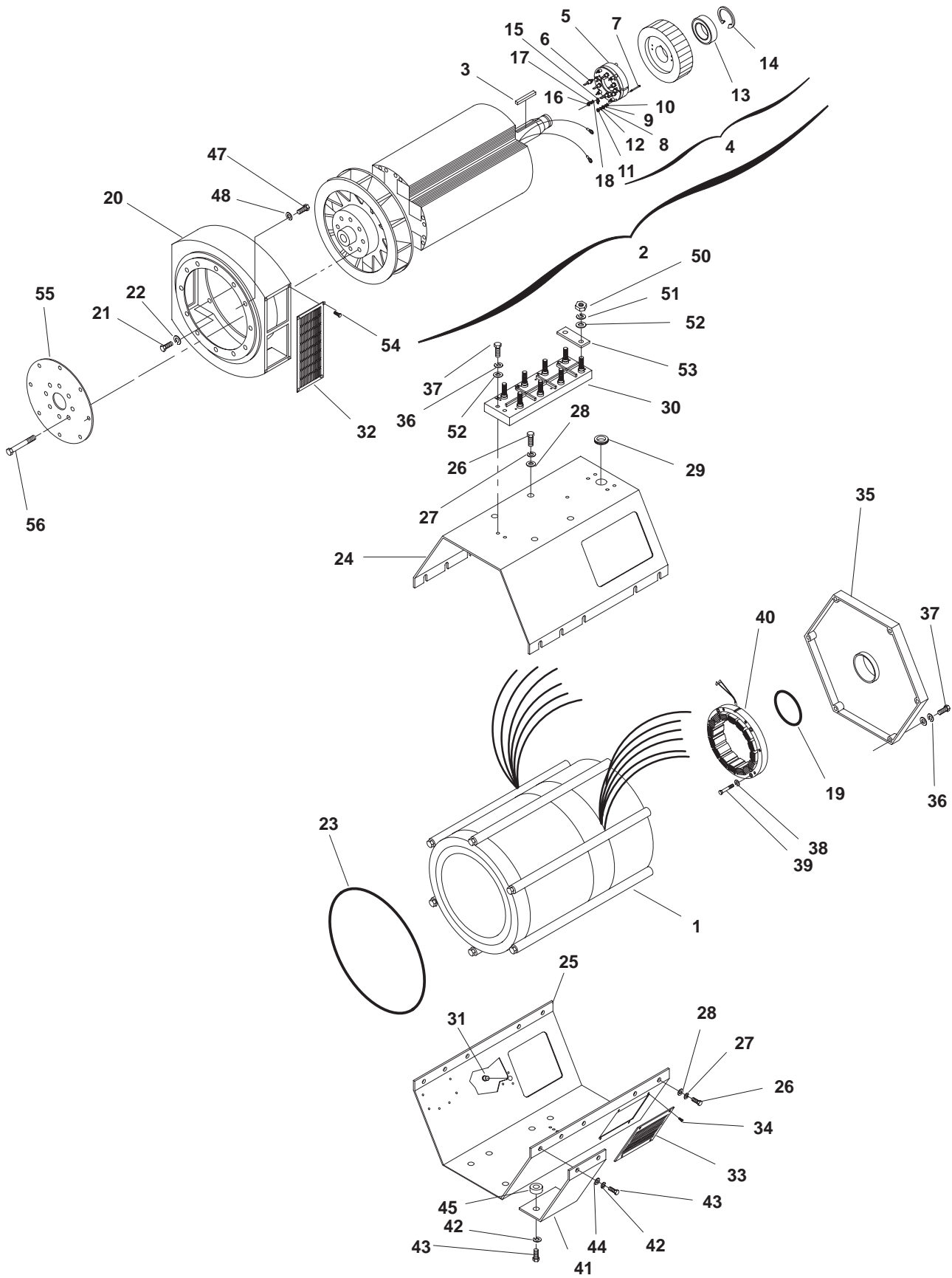
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-0664	1	Gasket, Oil Drain	4	503-1657	2'	Hose, Oil Drain
2	102-1463	1	Adapter, Oil Drain	5	504-0176	1	Valve, Oil Drain
3	503-0131	1	Clamp, Hose				

## Generator Stator



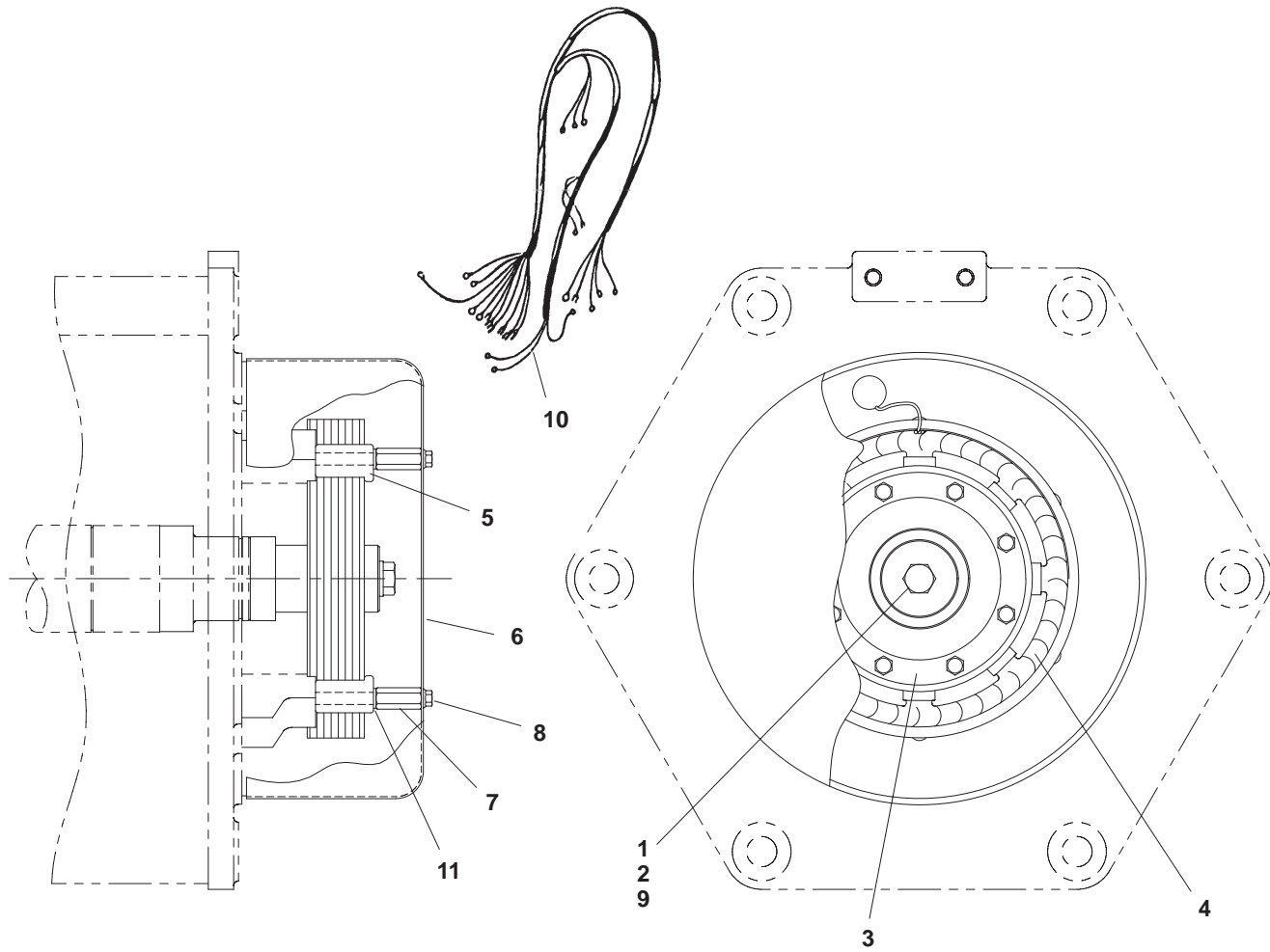
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator, Generator GGFB				GGFC
			50 Hertz				50 Hertz
	220-4447-11	1	12 Wire, BR, 125C 130mm Stack (B327)	220-4447-12	1		12 Wire, BR, 125C 160mm Stack (B327)
	220-4447-11	1	12 Wire, BR, 150C 130mm Stack (B420)	220-4447-13	1		12 Wire, BR, 105C 160mm Stack (B328)
	220-4447-12	1	12 Wire, BR, 125C 160mm Stack (B339)	220-4447-13	1		12 Wire, BR, 125C 160mm Stack (B339)
	220-4447-12	1	12 Wire, BR, 105C 160mm Stack (B340)	220-4447-13	1		12 Wire, BR, 105C 240mm Stack (B340)
	220-4447-12	1	12 Wire, BR, 105C (B328)	220-4447-12	1		12 Wire, BR, 150C 160mm Stack (B420)
			60 Hertz				60 Hertz
	220-4447-06	1	4 wire, 1 Phase, 125C 130mm Stack (B273)	220-4447-08	1		4 wire, 1 Phase, 125C 180mm Stack (B273)
	220-4447-07	1	4 wire, 1 Phase, 105C 160mm Stack (B274)	220-4447-08	1		4 wire, 1 Phase, 105C 180mm Stack (B274)
	220-4447-11	1	12 Wire, UBR, 125C 130mm Stack (B414)	220-4447-12	1		12 Wire, UBR, 150C 160mm Stack (B416)
	220-4447-11	1	12 Wire, UBR, 105C 130mm Stack (B415)	220-4447-13	1		12 Wire, BR, 125C, 180mm Stack (B267)
	220-4447-12	1	12 Wire, BR, 125C 160mm Stack (B267)	220-4447-14	1		12 Wire, BR, 105C, 180mm Stack (B268)
	220-4447-12	1	12 Wire, BR, 105C 160mm Stack (B268)	220-4447-11	1		12 Wire, UBR, 150C 160mm Stack (B413)
	220-4447-16	1	12 Wire, LBR, 150C 130mm Stack (B416)	220-4447-13	1		12 Wire, UBR, 105C 180mm Stack (B415)
	220-4447-16	1	12 Wire, LBR, 125C 130mm Stack (B417)	220-4447-12	1		12 Wire, UBR, 125C 160mm Stack (B414)
	220-4447-16	1	12 Wire, LBR, 105C 130mm Stack (B418)	220-4447-16	1		12 Wire, LBR, 125C 160mm Stack (B417)
	220-4447-12	1	12 Wire, UBR, 150C, (B413)	220-4447-16	1		12 Wire, LBR, 105C 160mm Stack (B418)
	220-4447-26	1	347/600 Volt, 125C 130mm Stack (B303)	220-4447-26	1		347/600 Volt, 150C 130mm Stack (B419)
	220-4447-26	1	347/600 Volt, 105C 130mm Stack (B304)	220-4447-26	1		347/600 Volt, 125C 160 mm Stack (B303)
	220-4447-26	1	347/600 Volt, 150C 130mm Stack (B419)	220-4447-26	1		347/600 Volt, 105C 160mm Stack (B304)

# Generator



Generator							
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator, Generator (See separate page for part numbers)	22	850-0114-54	6	Washer, Lock (M8)
2			Rotor Assembly, Generator (Includes parts marked *)	23	508-0139		Seal, Edging – Bulk (Order by the foot – 3 Feet Required)
	201-3557-01	1	130mm Stack Length GGFB	24			Cover, Stator – Top
			B273, B303, B304, B327, B413, B414, B415, B416, B417, B418, B419, B420		234-0936-01	1	130, 160mm Stack Length
			GGFC		234-0936-02	1	180, 240mm Stack Length
			B416, B419	25			Cover, Stator – Bottom
					232-3819-01	1	130, 160mm Stack Length
					232-3819-02	1	180, 240mm Stack Length
	201-3557-02	1	160mm Stack Length GGFB	26			Screw, Cap – Hex Head
			B267, B268, B274, B328, B339, B340		800-3017-37	8	130, 160mm Stack Length (M10 x 1.5 x 25mm)
			GGFC		800-3017-37	10	180, 240mm Stack Length (M10 x 1.5 x 25mm)
			B303, B304, B327, B413, B414, B417, B418, B420	27			Washer, Lock – Spring (M10)
					850-0114-55	8	130/160 Stack Length
					850-0114-55	10	180/240 Stack Length
	201-3557-03	1	180mm Stack Length GGFC	28			Washer, Flat (M10)
			B267, B273, B274, B328, B339, B415		526-0399-62	8	130/160 Stack Length
					526-0399-62	10	180/240 Stack Length
	201-3557-04	1	240mm Stack Length GGFC	29	508-1057	1	Grommet
			B268, B340	30	232-3421	1	Block, Terminal
3			* Key, Exciter Rotor	31	517-0135	1	Plug, Hole
	515-0298-01	1	130, 160mm Stack Length	32	234-0980	2	Guard, Fan
	515-0298-02	1	180, 240mm Stack Length	33	234-0878	2	Screen, Air Inlet
4			* Rotor Assembly, Exciter (Includes Parts Marked #)	34	821-6001-02	8	Screw, SEMS (M5 x 12mm)
	201-3434-01	1	130, 160mm Stack Length	35	211-0422	1	Bell, End
				36	850-0114-54	6	Washer, Lock (M8)
	201-3434-02	1	180, 240mm Stack Length	37	800-2060	3	Screw, Cap – Hex Head (M8 x 1.25 x 35)
5			** Rectifier Assembly (Includes Parts Marked +)	38	850-2006	4	Washer, Lock – Spring (M6)
	357-0091	1	Forward (with Positive Diode)	39			Screw, Cap – Hex Head M6 x 60mm
	357-0092	1	Reverse (with Negative Diode)	40	800-2042	4	Stator, Exciter
6			**+ Diode		220-4293-04	1	130, 160mm Stack Length
	358-0135-01	3	Positive		220-4293-05	1	180, 240mm Stack Length
	358-0135-02	3	Negative	41	232-3940	2	Bracket, Mounting – Generator Foot
7	800-3009	3	**+ Screw, Cap – Hex Head (M4 x 35mm) (CR1,2,3,4,5,6)	42	850-0114-55	8	Washer, Lock (M10)
8	860-2005	3	**+ Nut, Hex (M4)	43	800-3017-39	8	Screw, Cap – Hex Head (M10)
9	850-2004	3	**+ Washer, Lock – Spring (M4)	44	526-0399-62	4	Washer, Flat (M10)
10	526-2050	3	**+ Washer, Flat (M4)	45	232-3730-03	4	Spacer, Foot – Mounting
11	870-2064-01	6	** Nut, Locking – Nylon (M4)	46	805-0015	8	Bolt, Place (3/8–16 x 1)
12	526-2050	6	** Washer, Flat (M4)	47	800-2088	12	Screw, Cap – Hex Head (M10 x 35mm)
13	510-0165	1	* Bearing, Ball	48	850-2010	12	Washer, Lock – Spring (M10)
14	518-0122	1	* Ring, Retaining	49	526-0174	8	Washer, Flat (3/8)
15	304-0807	1	* Varistor		800-2046	4	M6 x 80mm
16	860-2006	2	* Nut, Hex (M5)	50	860-2009	8	Nut, Hex (M10)
17	850-2005	2	* Washer, Lock – Spring (M5)	51	850-2010	8	Washer, Lock – Spring (M10)
18	526-2060	2	* Washer, Flat (M5)	52	526-2100	8	Washer, Flat (M10)
19	509-0266-01	1	O-Ring	53	332-2987	4	Link, Terminal
20	231-0383	1	Adapter, Generator	54	821-6001-01	8	Screw, Self-Locking – Hex Washer Head (M5 x 10mm)
21	800-3017-20	6	Screw, Cap – Hex Head (M8 x 1.25 x 25)	55	232-3959-01	1	Disc, Drive
				56	720-1123	8	Screw, Cap – Socket Head
				* –Parts Included in Generator Rotor Assemblies			
				# –Parts Included in Exciter Rotor Assemblies			
				+ –Parts Included in Rectifier Assemblies			

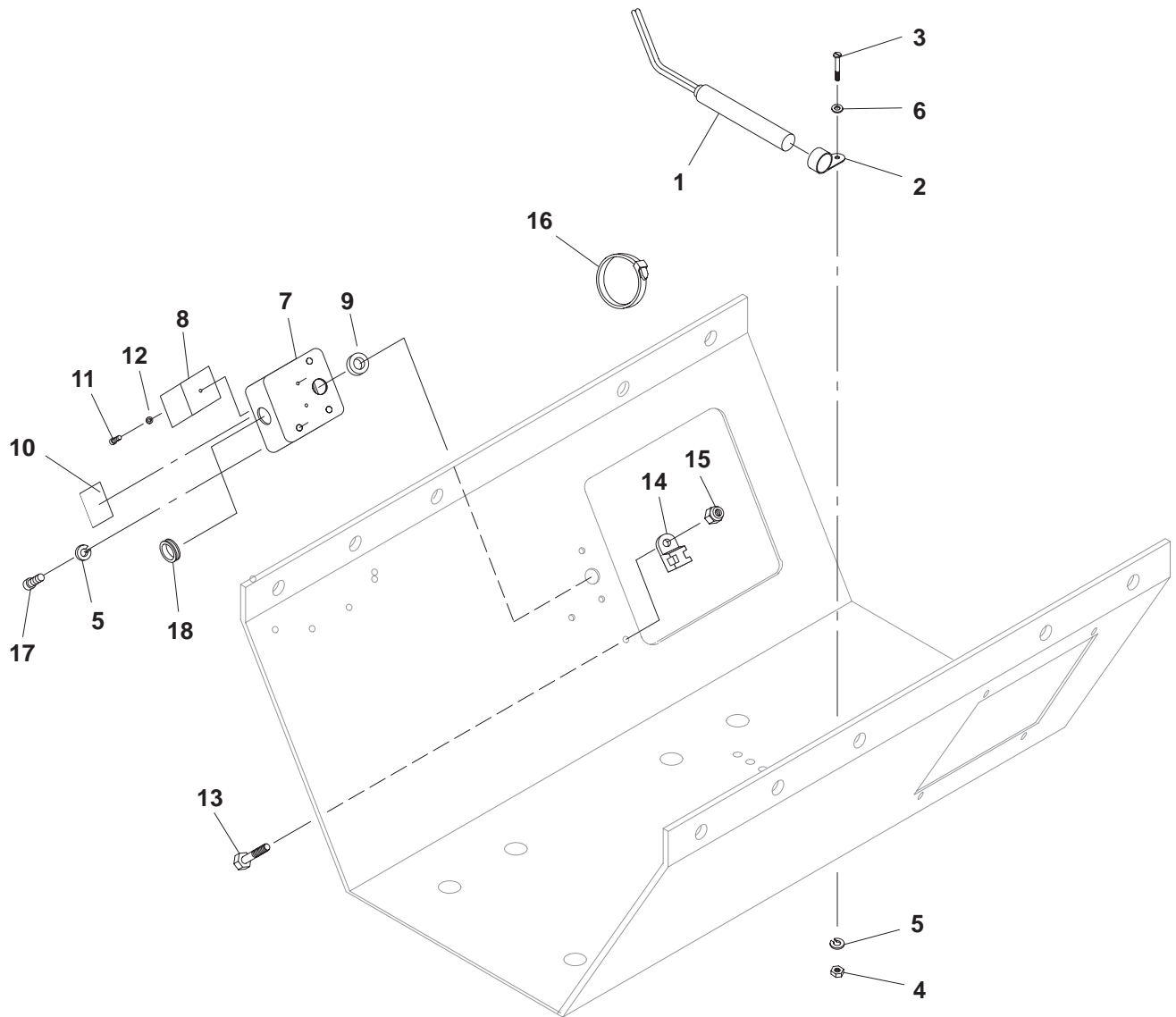
## Permanent Magnet Generator (PMG)



B184

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	775-0049	1	Pin, Parallel	7	232-3462-03	4	Spacer, Cover
2	815-0761-01	1	Bolt, Mounting - PMG	8	821-6001-01	4	Screw, SEMS - Hex Head (M5 x 0.8 x 10)
3	201-3446	1	Rotor, PMG	9	850-2010	1	Washer, Lock (M10)
4	220-4233	1	Stator, PMG	10	338-3011	1	Harness, Wiring - PMG
5	232-3972	4	Clamp, Stator - PMG	11	850-2006	4	Washer, Lock (M6)
6	234-0875-02	1	Cover, End Bell				

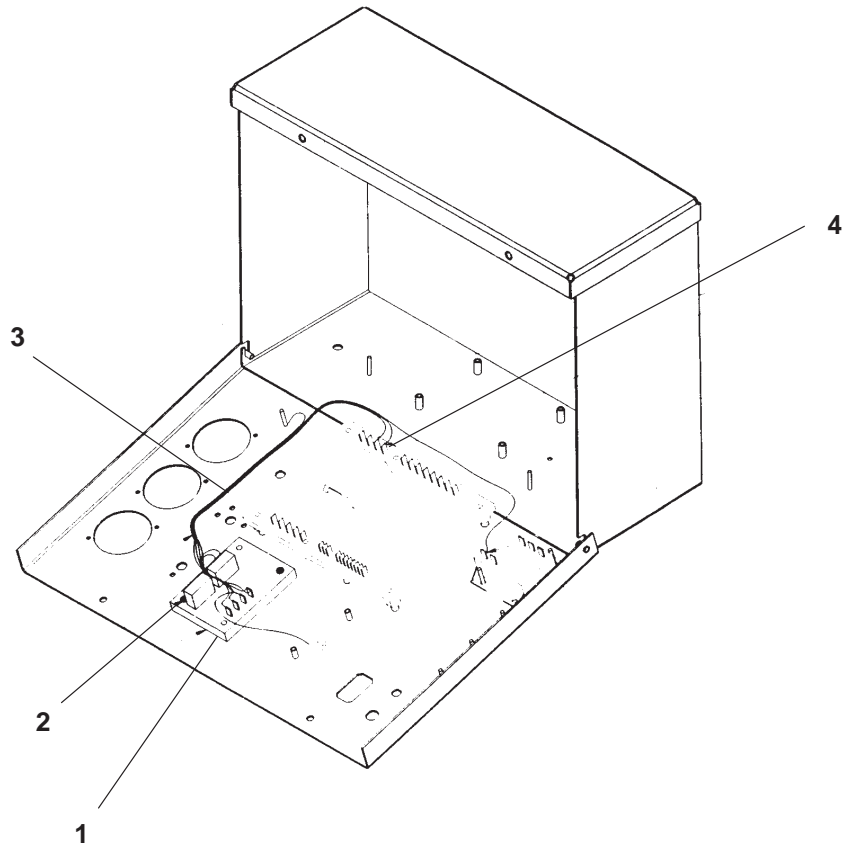
## Generator Heater



A292,A293

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cartridge, Heater	10	098-7281	1	Label, Warning – Heater
	333-0438-07	1	120 Volt	11	822-3047	1	Screw, Pan Head (M3 x 20)
	333-0438-08	1	240 Volt	12	850-2003	1	Washer, Lock (M3)
2	332-3024-11	2	Clamp, Loop	13	800-3034	1	Screw, Cap – Hex Head (M4 x .7 x 12)
3	822-3075	5	Screw, Pan Head (M4 x 16)	14	332-3228	1	Mount, Tie – Cable
4	860-2005	2	Nut, Hex (M4)	15	870-2064-01	1	Nut, Nylon
5	850-2004	4	Washer, Lock (M4)	16	332-1389	1	Tie, Cable
6	526-2050	2	Washer, Flat (M4)	17	815-0792-04	2	Screw, Countersunk – Pan Head (M4 x .7 x 12)
7	330-0142	1	Box, Terminal – Heater	18	517-0021	1	Plug, Dot – Button
8	332-3023	1	Block, Terminal				
9	508-0228	1	Grommet				

## Electronic Overspeed Generator Sets With Sentinel Control

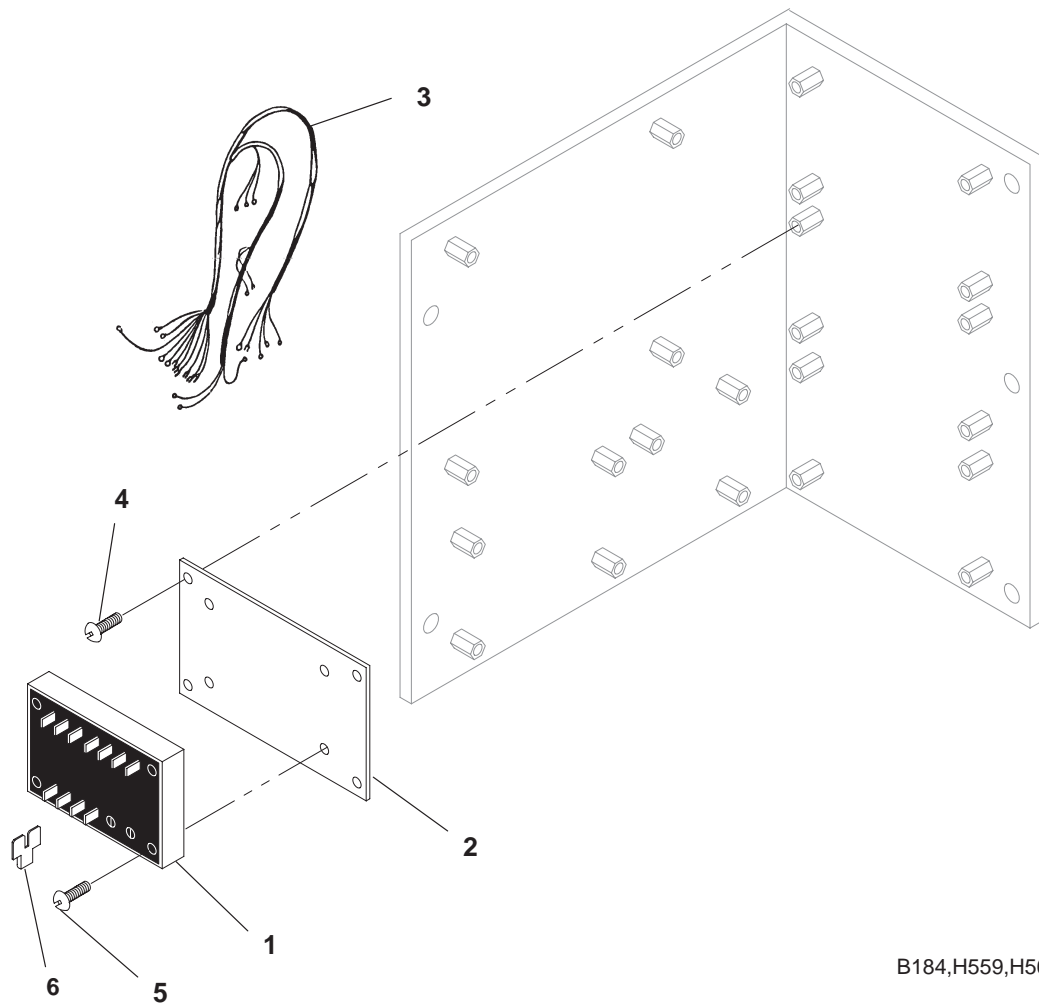


B184,H562

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	305-0902-01	1	Module, Electronic Overspeed	3	338-3451	1	Harness, Overspeed
2	815-0388	2	Screw, Thread Cutting – Cross Recessed (#6-32 x 1/2)	4	332-1571	2	Terminal, Tab



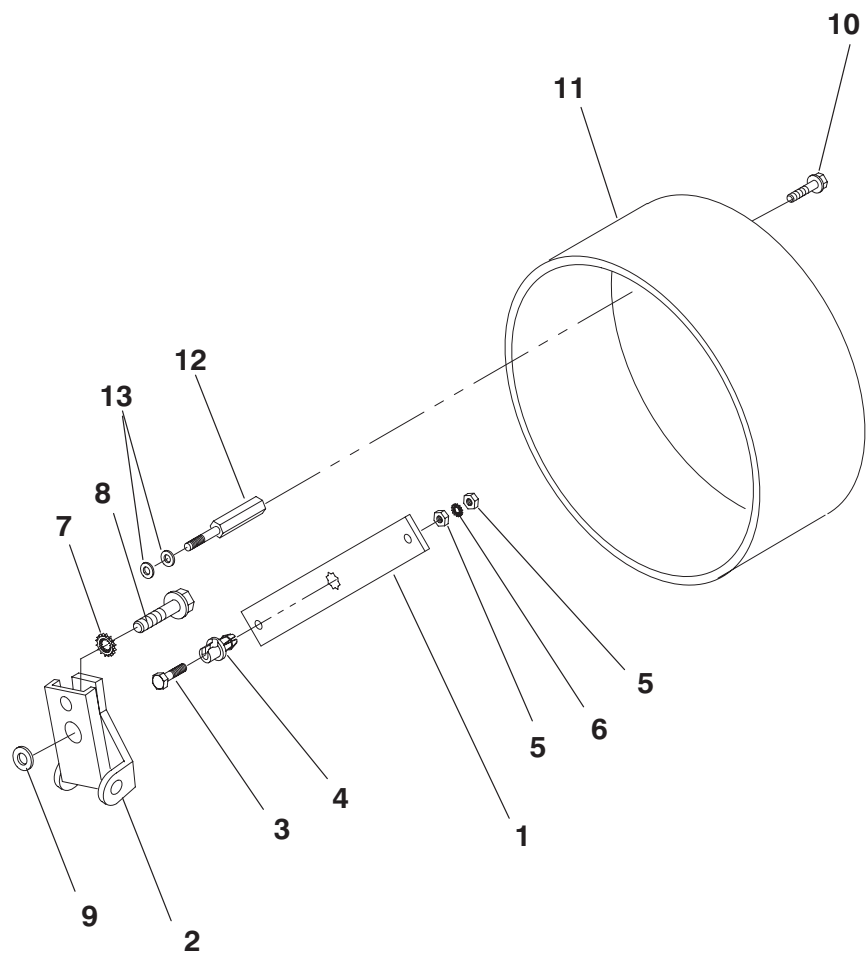
## Electronic Overspeed Generator Sets With Detector Control



B184,H559,H560

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	305-0902-01	1	Module, Frequency (A16)	5	812-0082	4	Screw, Machine - Round Head (#8-32 x 3/4)
2	319-0754	1	Plate, Overspeed	6	332-1571	2	Terminal, Tab Adapter
3	338-3396	1	Harness, Overspeed				
4	815-0388	4	Screw, Machine - Cross Recessed - Thread Forming (#6-32 x 1/2)				

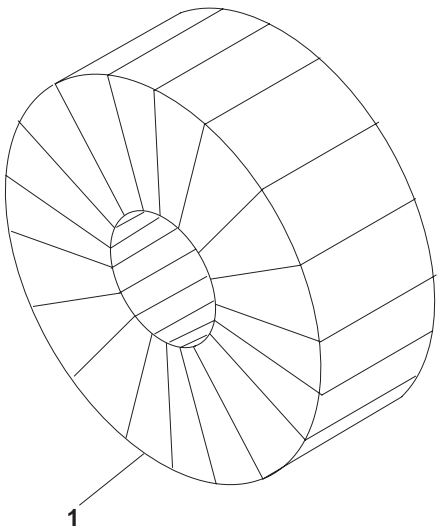
Mechanical Overspeed



B240,H562

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2309	1	Bracket, Overspeed	9	526-0240	1	Washer, Flat (.406 x 1.5 x .125)
2	150-0956	1	Switch, Overspeed	10	821-6001-01	4	Screw, SEMS – Hex Head (M5 x 0.8 x 10)
3	150-0723	1	Point, Overspeed	11	234-0875-01	1	Cover, End Bell
4	870-0250	1	Nut, Insulating (1/4)	12	232-3462-01	4	Spacer, Cover
5	862-0001	2	Nut, Hex (1/4)	13	526-2080	4	Washer, Flat (M6)
6	853-0013	1	Washer, Lock – ET (1/4)				
7	856-0010	1	Washer, Lock – EIT (3/8)				
8	800-2088	1	Screw, Cap – Hex Head (M10 x 1.5 x 35)				

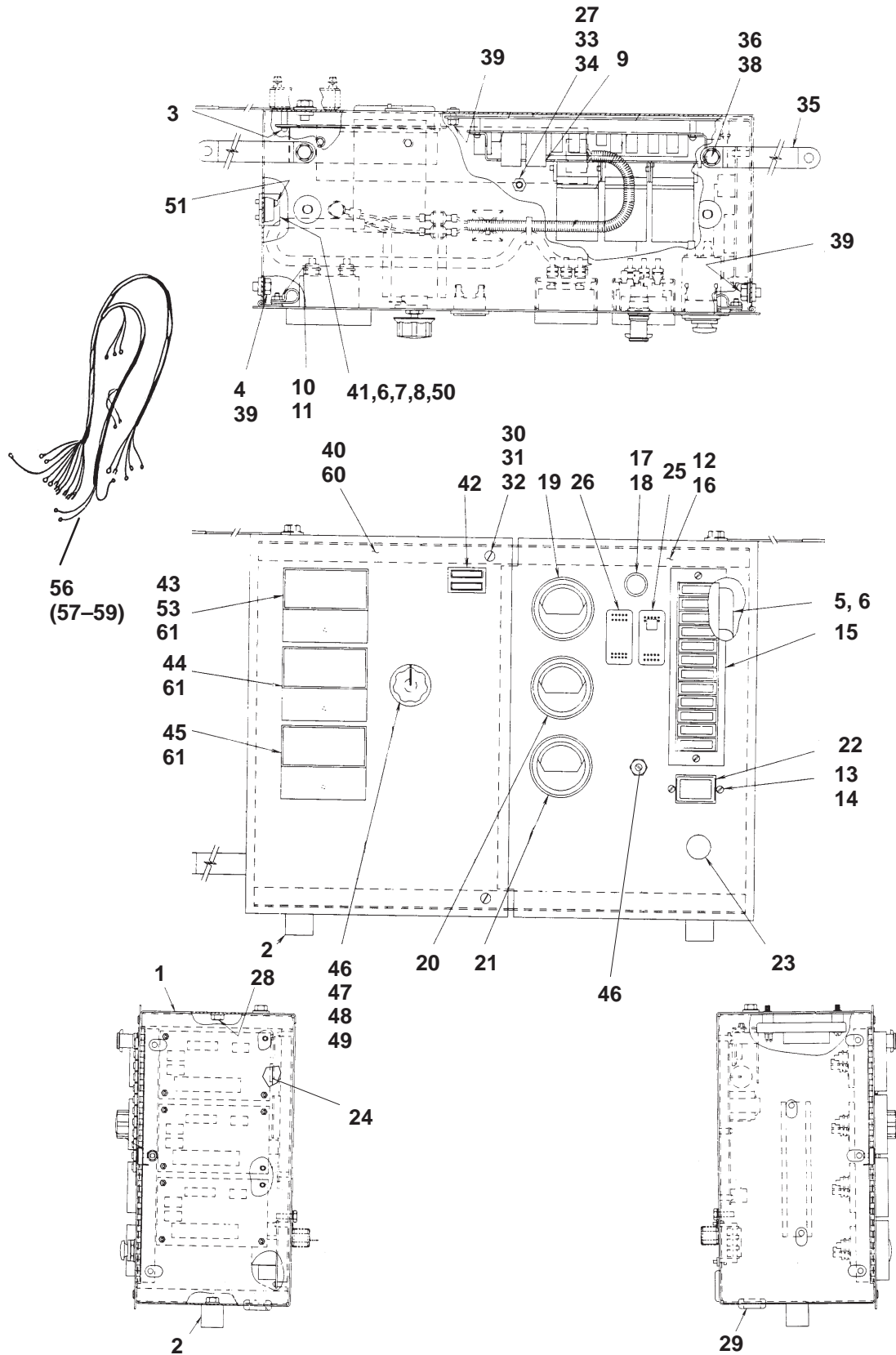
Current Transformers



H559,H560,H562,R114,K001

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT21, CT22, CT23)				Greater than 300 Volts
			Less than 300 Volts	302-1845-03	3		75/5 Primary Ratio
	302-1845-03	3	150/5 Primary Ratio	302-1845-04	3		100/5 Primary Ratio
	302-1845-04	3	200/5 Primary Ratio				

# Detector Control



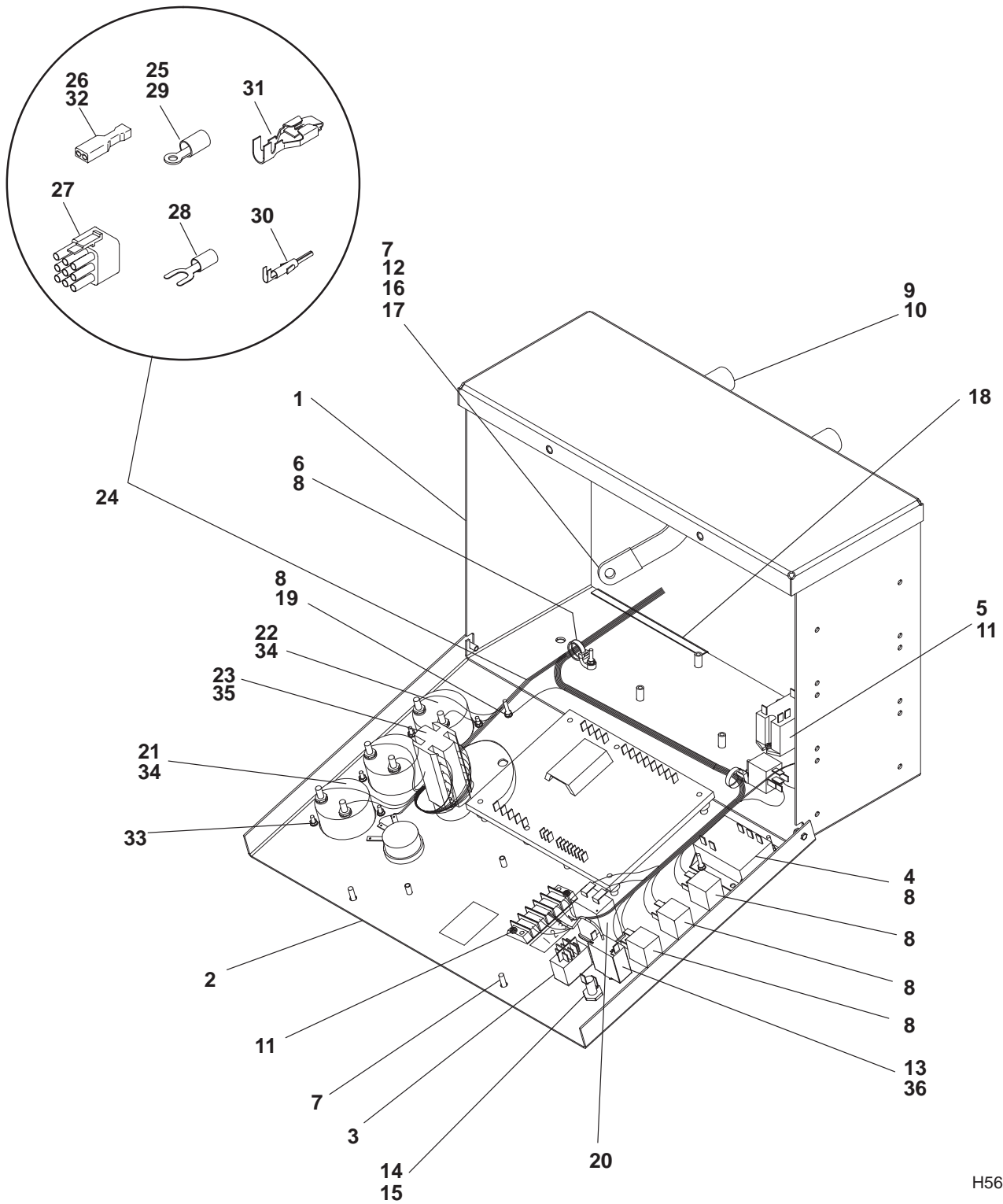
## Detector Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3030	1	Box, Control	36	821-0014	1	Screw, Hex Head – Self-Locking (5/16–18 x 1/2)
2	402-0527	4	Isolator, Vibration	37	815-0905-08	1	Screw, Pan Head – Cross Recessed (#10–32)
3	815-0388	4	Screw, Machine – Round Head – Cross Recessed – Thread Cutting (#6–32 x 1/2)	38	856-0008	2	Washer, Lock – EIT (5/16)
4	821-0004	3	Screw, Locking Head (#10–32 x 5/16)	39	821-0004	3	Screw, Locking Head (#10–32 x 5/16)
5	338-3326	1	Harness – DC	40	301-9054-01	1	Door, Control (LH)
6	323-1308	1	*Housing, PCB (12 Pin)	41	338-2278	1	Harness – AC (Includes Parts Marked *)
7	323-1302	A/R	*Pin, Contact	42	322-0363	1	Lamp Assembly (Upper/Lower Scale)
8	332-1445	A/R	*Tie, Cable	43	302-1148	1	Voltmeter – AC
9	300-4296		Board, PC – Engine Monitor	44			Ammeter – AC
10	332-0052	1	Clip, Wire		302-1685	1	0–200/0–400
11	870-0131	1	Nut, Hex W/ET (#10–32)		302-1724	1	0–250/0–500
12	301-9055-01	1	Door, Control (RH)		302-1725	1	0–375/0–750
13	815-0385	4	Screw, Machine – Round Head (#6–32 x 1/2) (Black Zinc)	45	302-1968	1	Meter, Frequency (45–65 Hz.)
14	870-0183	4	Nut, Hex – W/ET (#6–32)	46	303-0261	1	Potentiometer – Volts Adjust
15	322-0360-01		Lamp Assembly	47	303-0032	1	Knob, Rheostat
16	098-7477	1	Label, Panel – DC (Front)	48	853-0008	1	Washer, Lock – ET (#10)
17	322-0361	1	Light, Panel	49	308-1052	1	Switch, Rotory (Volt/Ammeter)
18	322-0004		Lamp, Pilot	50	332-2723	1	Strip, Marker
19	193-0466	1	Gauge, Oil Pressure	51	815-0901-06	2	Screw, Cross Recessed – Thread Cutting (#6–32 x 5/8)
20	193-0351	1	Gauge, Water Temperature	52	098-5387	1	Label, Danger
21	302-1641		Voltmeter	53	355-0189	1	Capacitor
22		1	Meter, Time Totalizing	54	870-0183	2	Nut, Hex – W/ET (#6–32)
	302-0885	1	Spec A	55	815-0875-02	3	Screw, Machine – Round Head (m4 x .7 x 8G)
	302-2002	1	Spec B	56	338-3429	1	Harness, TB21 (Includes Parts Marked @)
23	517-0131	1	Plug, Hole	57	323-1644-02	1	@ Housing, Cap
24	300-5098	1	Board, PC – Sensor Board	58	323-1648	A/R	@ Socket, Terminal
25	308-1010	1	Switch, Rocker (W/Light)	59	332-1445	A/R	@ Tie, Cable
26	308-1011	1	Switch (WO/Light)	60	098-5298	1	Label, Panel – AC (Front)
27	853-0008	2	Washer, Lock – ET (#10)	61	870-1220	6	Nut (4–40)
28	850-0045	4	Washer, Lock (5/16)				
29	508-0051	1	Grommet (2")				
30	406-0332	2	Receptacle, Fastener				
31	406-0333	2	Stud, Fastener				
32	406-0334	2	Washer, Stud Retainer				
33	871-0015	1	Nut, Hex (1/4–20)				
34	526-0018	1	Washer, Flat (1/4)				
35	337-0049	1	Bond, Strap				

\* – Parts Included in 338-2278 Wiring Harness

@ – Parts Included in 338-3429 Wiring Harness

# Sentinel Control



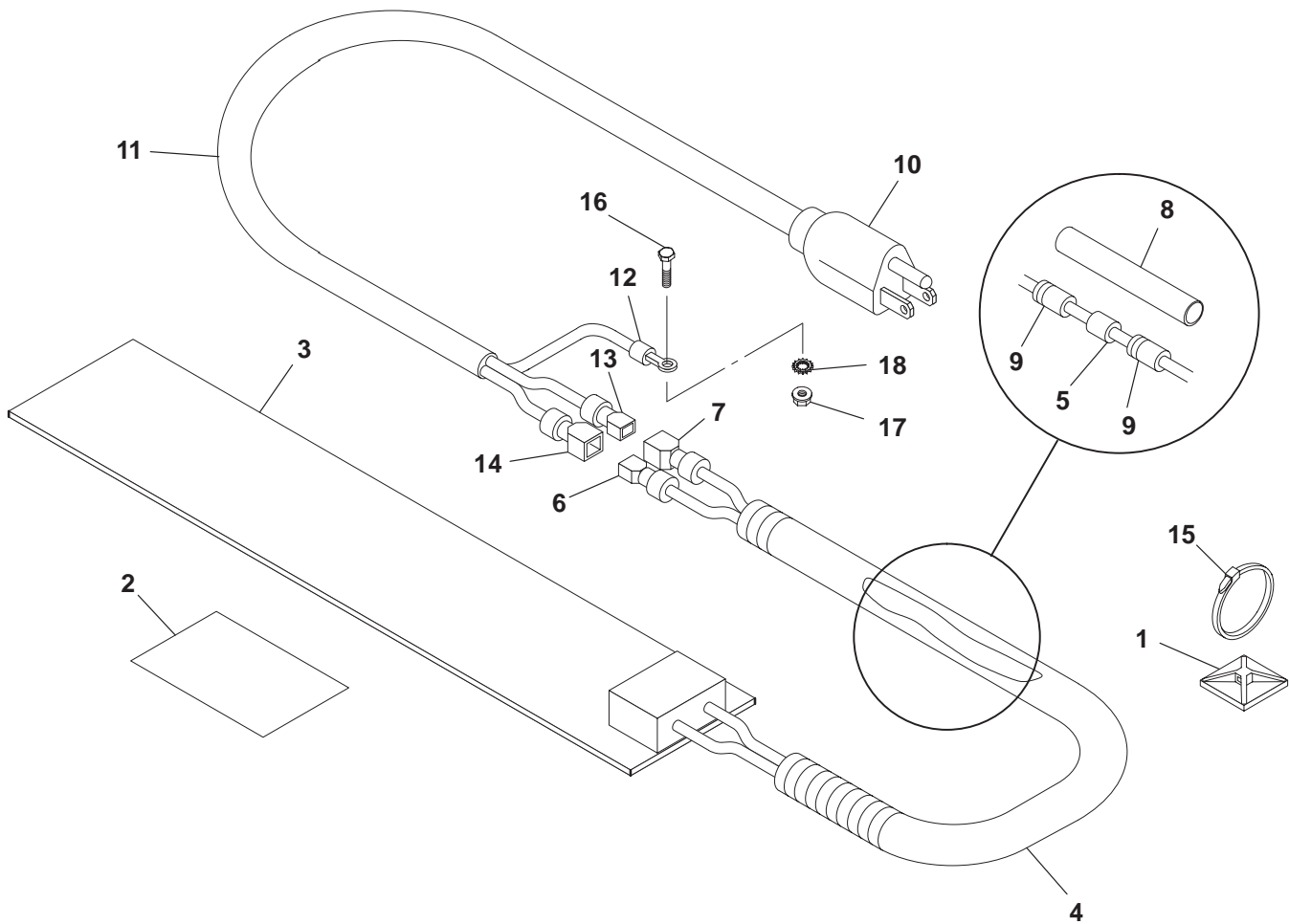
H562

## Sentinel Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2991	1	Wrapper, Control	21			Voltmeter, AC
2	319-2989	1	Panel, Control		302-1148	1	0-300/0-600 (600 Volt)
3	308-1011	1	Switch, Rocker		302-1753	1	0-750 (All except 600 Volt)
4	307-2871	1	Relay, Timer	22	302-1968	1	Meter, Hz/RPM
5	307-2677-03	1	Relay (20 Amp, 250 VAC)	23	308-1052	1	Switch, Rotary (Volt & Ammeter)
6	332-2877	2	Tie, Cable	24	338-3391	1	Harness, Wiring – Meters (Includes Parts Marked *)
7	821-6002-03	3	Screw, Hex Head (M6 x 16)	25	332-0804	9	* Terminal, Ring
8	870-0183	9	Nut, Lock – Acorn (#6-32)	26	332-1992	2	* Socket, Contact
9	402-0527	4	Isolator, Vibration	27	323-1644-02	1	* Housing, Cap
10	821-0014	4	Screw, Self-Locking – Hex Washer Head (5/16-18 x .50)	28	332-2630	11	* Terminal, Spade
11	815-0388	4	Screw, Cross Recessed – Thread Cutting (#6-32 x 1/2)	29	332-0897	1	* Terminal, Ring
12	337-0049	1	Strap, Bond	30	323-1648	8	* Pin, Contact
13	332-2974	1	Terminal, Spade	31	332-2468	2	* Terminal, Faston
14	321-0175	1	Holder, Fuse	32	332-1990	2	* Socket, Contact
15	321-0353	1	Fuse (20 Amp)	33	870-1220	4	Nut – W/ET (#4-40)
16	526-0018	1	Washer, Flat (5/16)	34	870-0439	4	Nut, Acorn
17	856-0008	1	Washer, Lock – EIT (5/16)	35	815-0875-02	3	Screw, Machine – Round Head (M4 x 8)
18	508-0305-02	–	Edging – Bulk (Order By The Foot – 1 Foot Required)	36			Breaker, Circuit
19	856-0003	2	Washer, Lock – ET (5/16)		320-1941	1	2 Pin
20	302-2002	1	Meter, Hour		320-1824-02	1	4 Pin

\* – Parts Included in Wiring Harness 338-3391

## Control Heater Detector Control



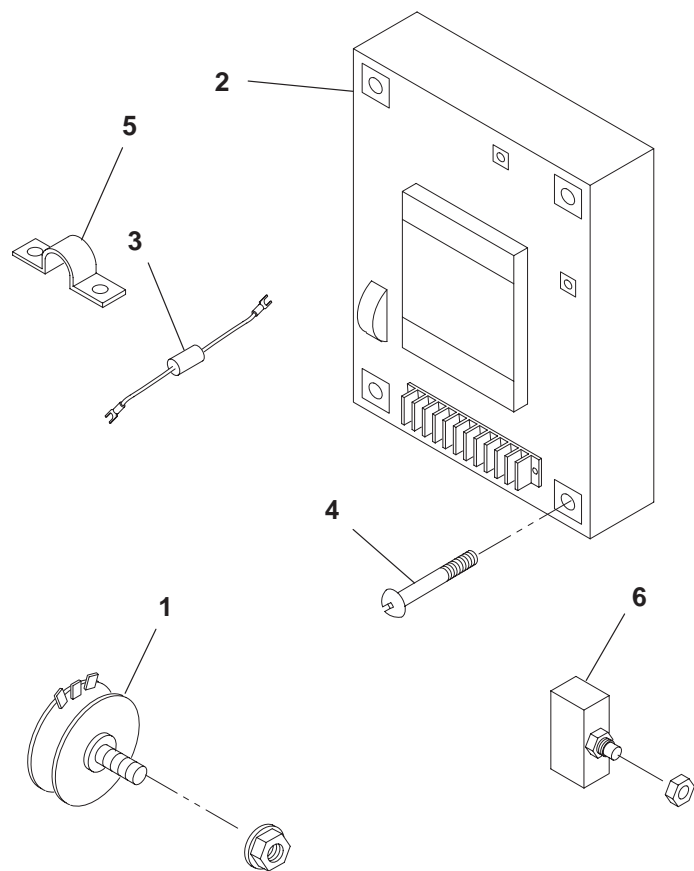
A362,A363

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-3338	2	Mount, Tie – Cable	11	335-0110	1	* Cable
2	098-6195	1	Label, Caution	12	332-2697	1	* Terminal, Ring
3			Heater, Control	13	332-1992	1	* Terminal, Receptical
	300-4515-01	1	120 Volt	14	332-2430	1	* Terminal, Tab
	300-4515-02	1	240 Volt	15	332-0942	3	Tie, Cable
4	898-1195-01	A/R	Sleeving, Convoluted	16	800-0024	1	Screw, Cap – Hex Head (5/16-18 x 3/4)
5	357-0114	1	Rectifier, Power	17	870-0257	1	Nut, Hex – Self Locking (5/16-18)
6	332-1992	1	Terminal, Receptical	18	856-0008	2	Washer, Lock EIT (5/16)
7	332-2430	1	Terminal, Tab				
8	898-0860	A/R	Tubing, Heat Shrink				
9	332-1789	2	Splice, Window (18 Gauge)				
10	335-0173	1	Cable, Heater – Control (Includes Parts Marked *)				

\* – Parts Included in 335-0173 Heater Cable



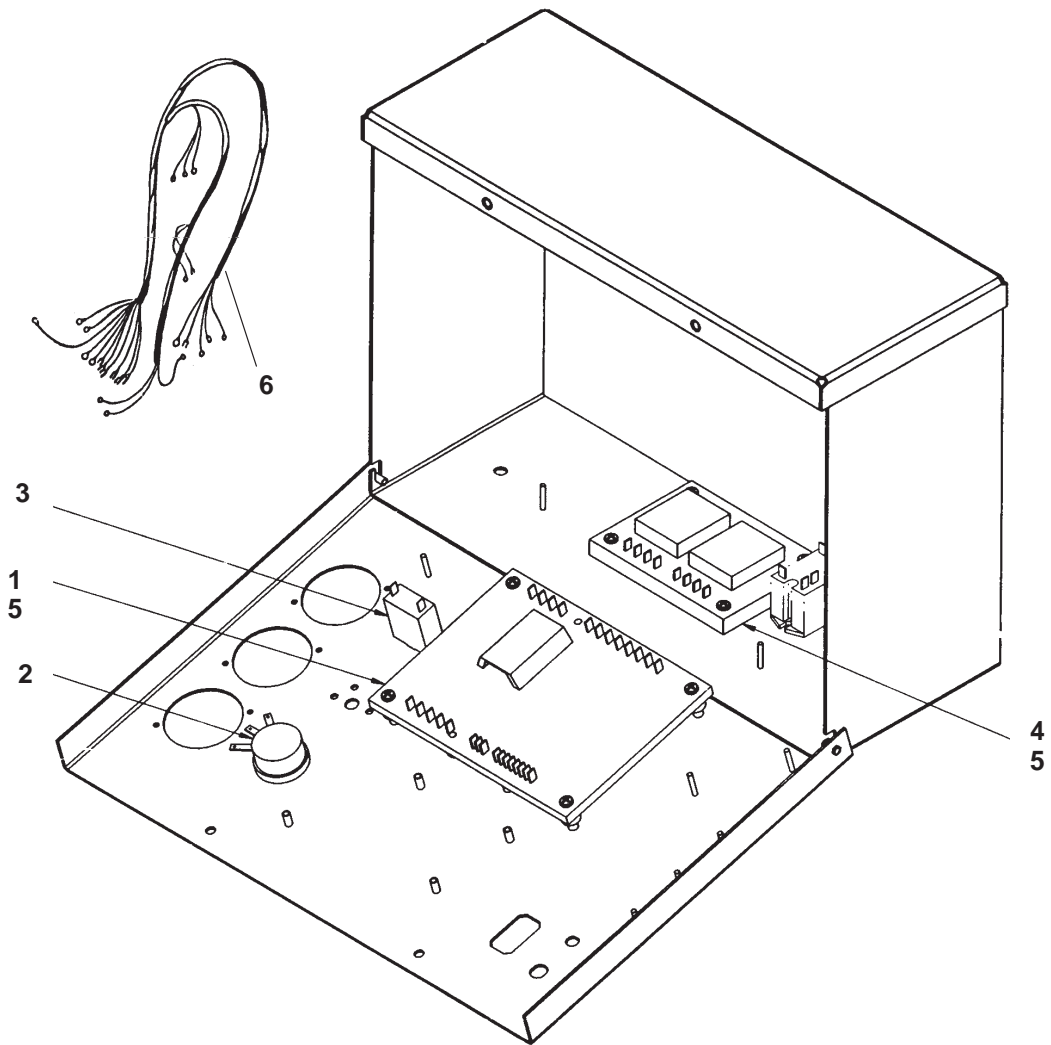
Voltage Regulator  
Detector Control



B184,H559,H560R114

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	303-0261	1	Potentiometer Used With SX460 Regulator (Shunt Excited)	3	350-1222	1	Resistor
	303-0285-01	1	Used With MX321 Regulator (PMG Excited)	4	815-0905-08	4	Screw, Cross Recessed (#10-32 x 7/8)
2	305-0982	1	Regulator, Voltage SX460 Regulator (Shunt Excited)	5	332-1043	1	Jumper
	305-0823	1	MX321 Regulator (PMG Excited)	6	320-1688-01	1	Breaker, Circuit

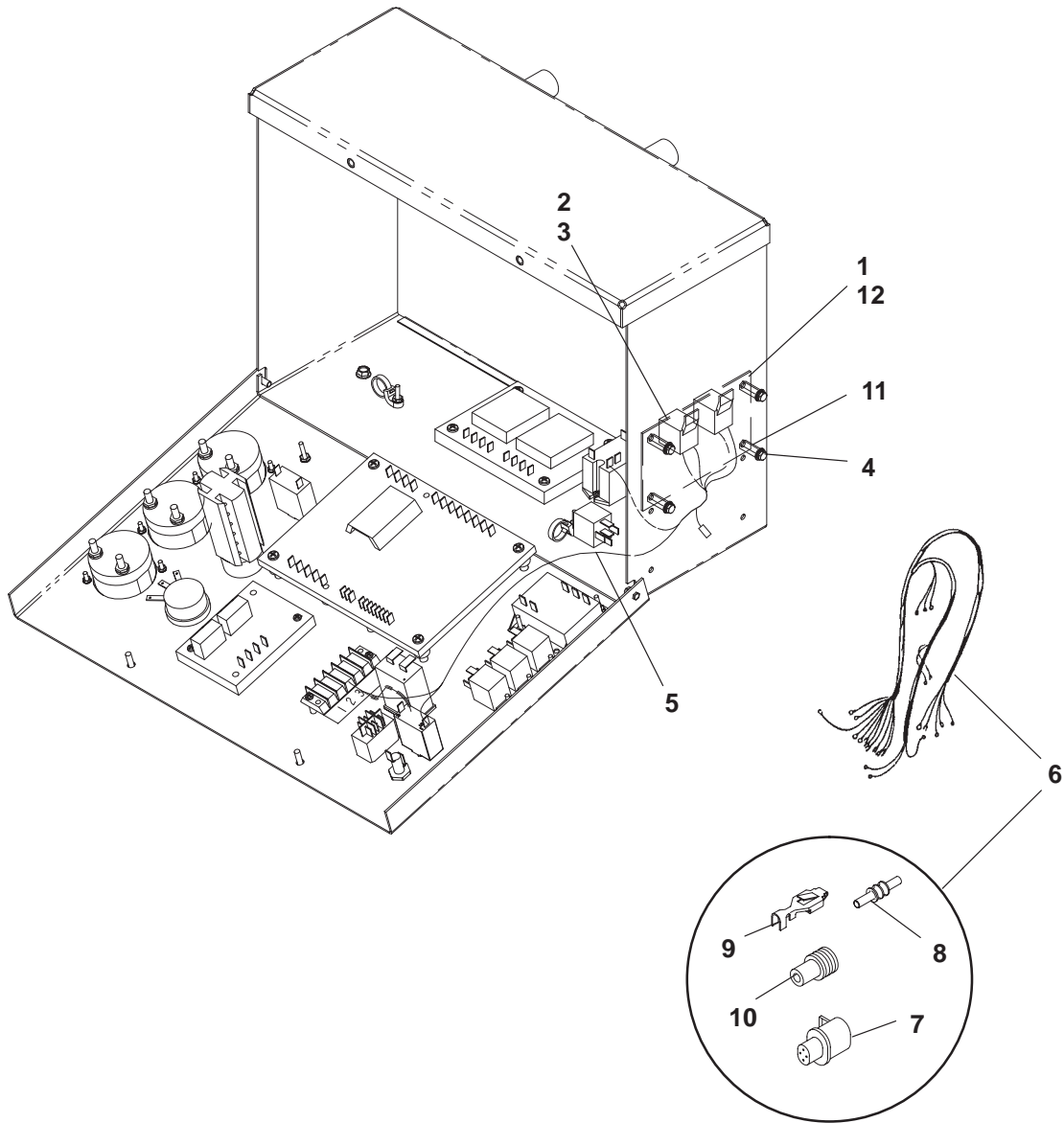
## Voltage Regulator Sentinel Control



B240,H562,K001,R114,B184

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	305-0982	1	Regulator, Voltage SX460 (Shunt Excited)	5			Screw, Pan Head – Cross Recessed (#10–32)
	305-0823	1	MX321 (PMG Excited)	815-0905-08	4		Used With SX460 Regulator (Shunt Excited)
2	303-0261	1	Potentiometer (Units with Meters) Used With SX460 Regulator (Shunt Excited)	815-0905-08	4		Used With MX321 (PMG Excited) – 600 Volt W/Meters
	303-0285-01	1	Used With MX321 Regulator (PMG Excited)	815-0905-08	8		Used With MX321 (PMG Excited) – except 600 Volt W/Meters
3	320-1688-01	1	Breaker, Circuit	6	338-3395	1	Harness – AC Control (Less than 600 Volts WO/Meters)
4	305-0868	1	Transformer (Used With MX321 (PMG Excited Regulator) except 600 Volt W/Meters)				

## Dry Contact Spec B

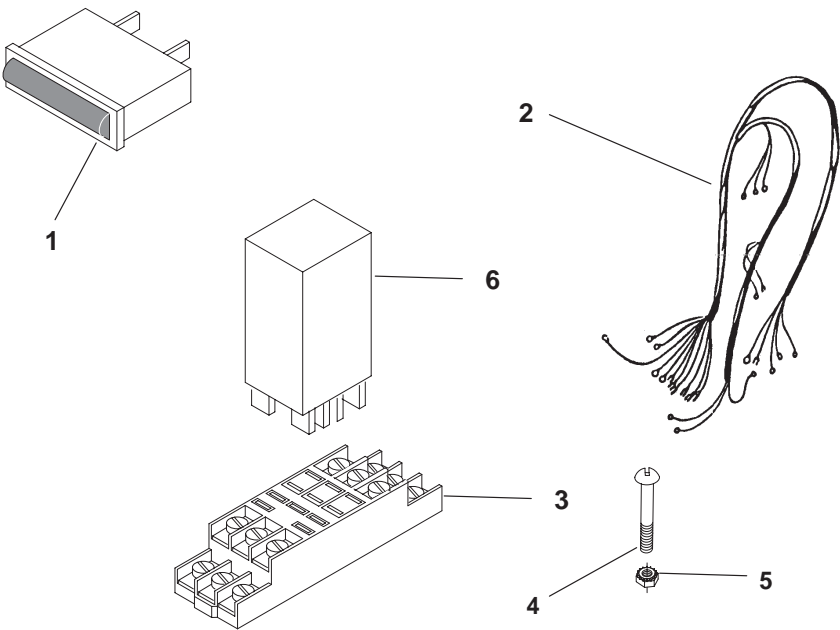


H568

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3601-02	1	Panel, Relay	7	323-1765	1	# Housing, Connector (4 Pin)
2	307-2817-01	2	Relay	8	323-1712	A/R	# Plug, Cavity
3	821-6001-02	2	Screw, Hex Head (M5 x 12)	9	323-1709	A/R	# Socket, Contact (Used in S7)
4	821-5000-05	4	Screw, Hex Head (#10-32 x .50)	10	323-1708	A/R	# Seal, Cable
5	338-3731	1	Harness, Wiring – Control	11	870-2204	4	Standoff, Hex (#10-32)
6	338-3743	1	Harness, Wiring – Dry Contact (Includes Parts Marked #)	12	870-0131	4	Nut, Hex – W/ET (#10-32)

# – Parts Included in 338-3743 Wiring Harness

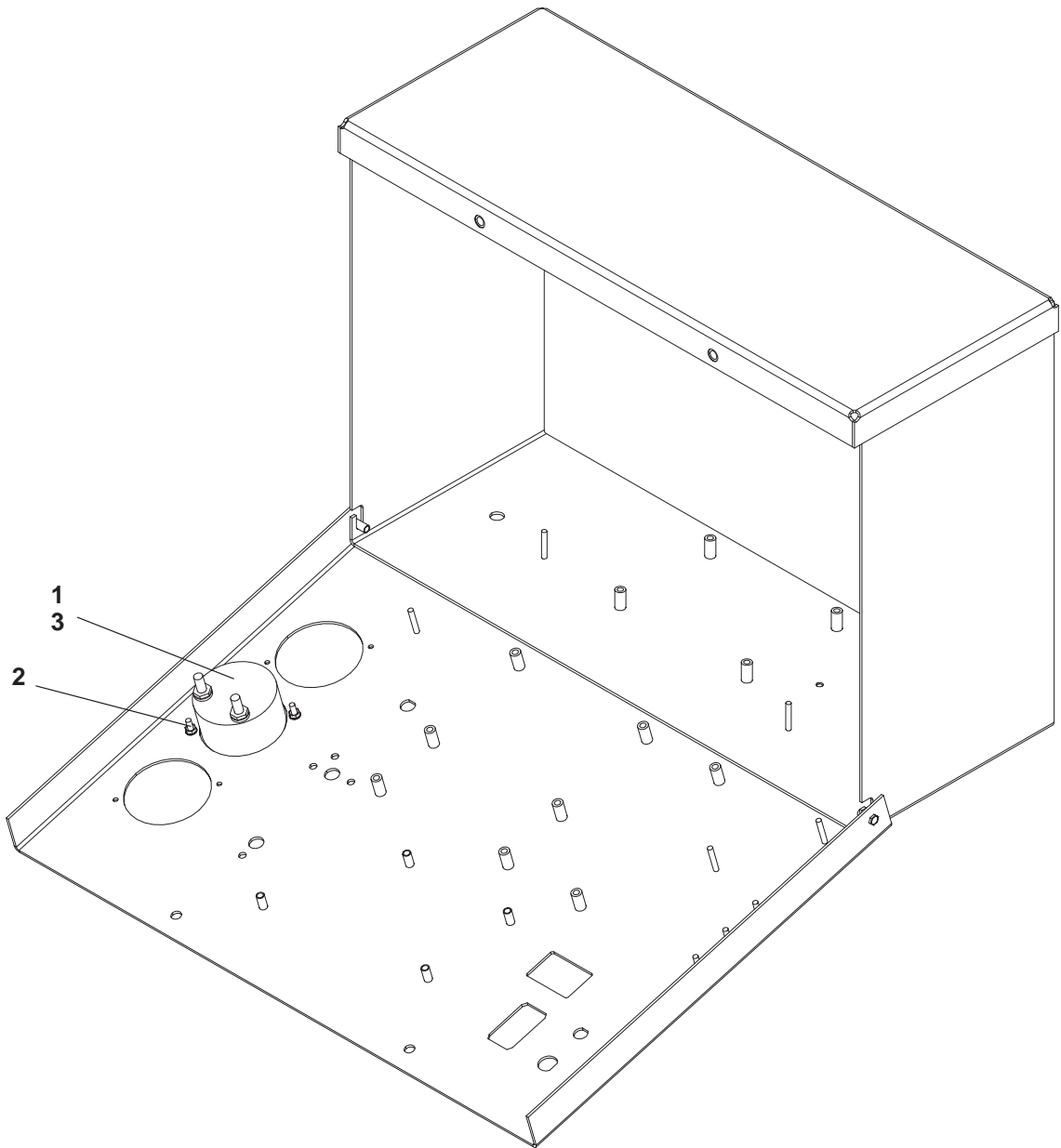
Low Battery Voltage



H560,H543

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	322-0431-08	1	Lens, Indicator	4	812-0084	2	Screw, Machine – Round Head (#8-32 x 1)
2	338-3034	1	Harness, Low Battery Voltage	5	870-1221	2	Nut, Hex W/ET (#8-32)
3	323-1410-03	1	Base, Relay	6	305-0901	1	Sensor, Low Battery

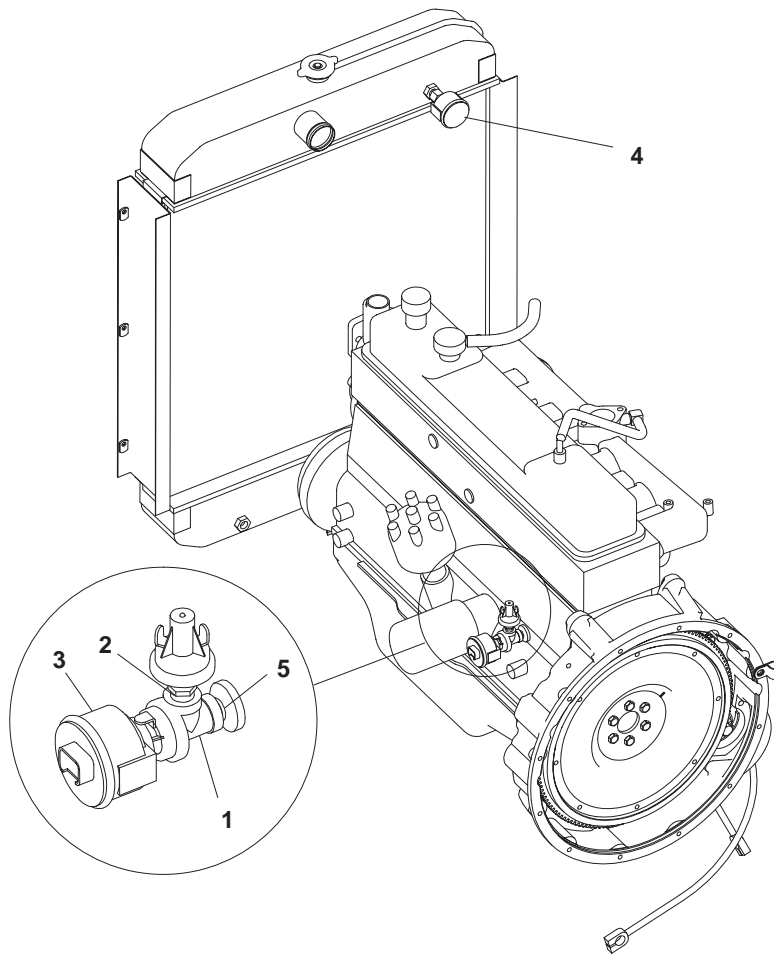
## Ammeter



H562,K001,R114

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Ammeter, Dual Scale	2	870-1220	2	Nut, Hex W/ET (#4-40)
	302-1147	1	0-75/0-150	3	870-0439	2	Nut, Acorn (1/4-28)
	302-1683	1	0-100/0-200				

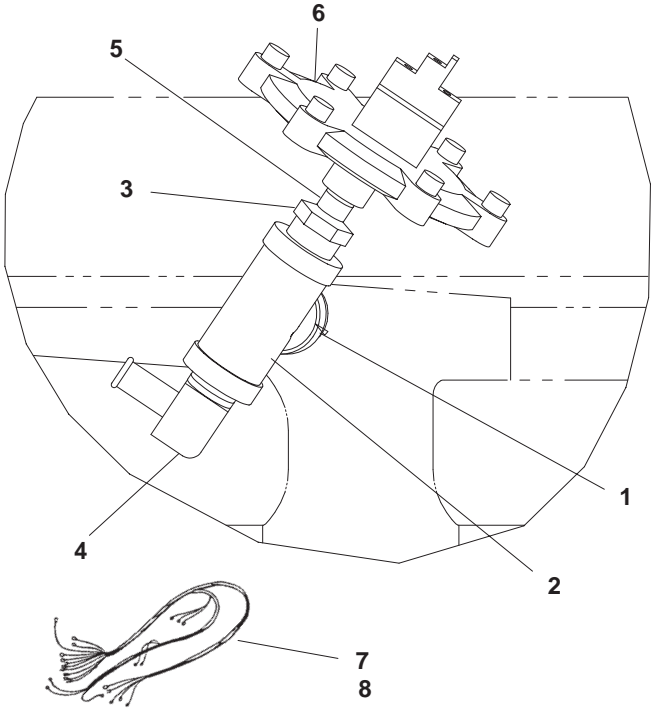
## Engine Gauges Sentinel Control



H563

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0184	1	Tee, Pipe	4	193-0463	1	Gauge, Water Temperature
2	505-0007	1	Bushing, Reducer	5	505-0099	1	Nipple, Pipe
3	193-0451	1	Gauge, Oil Pressure				

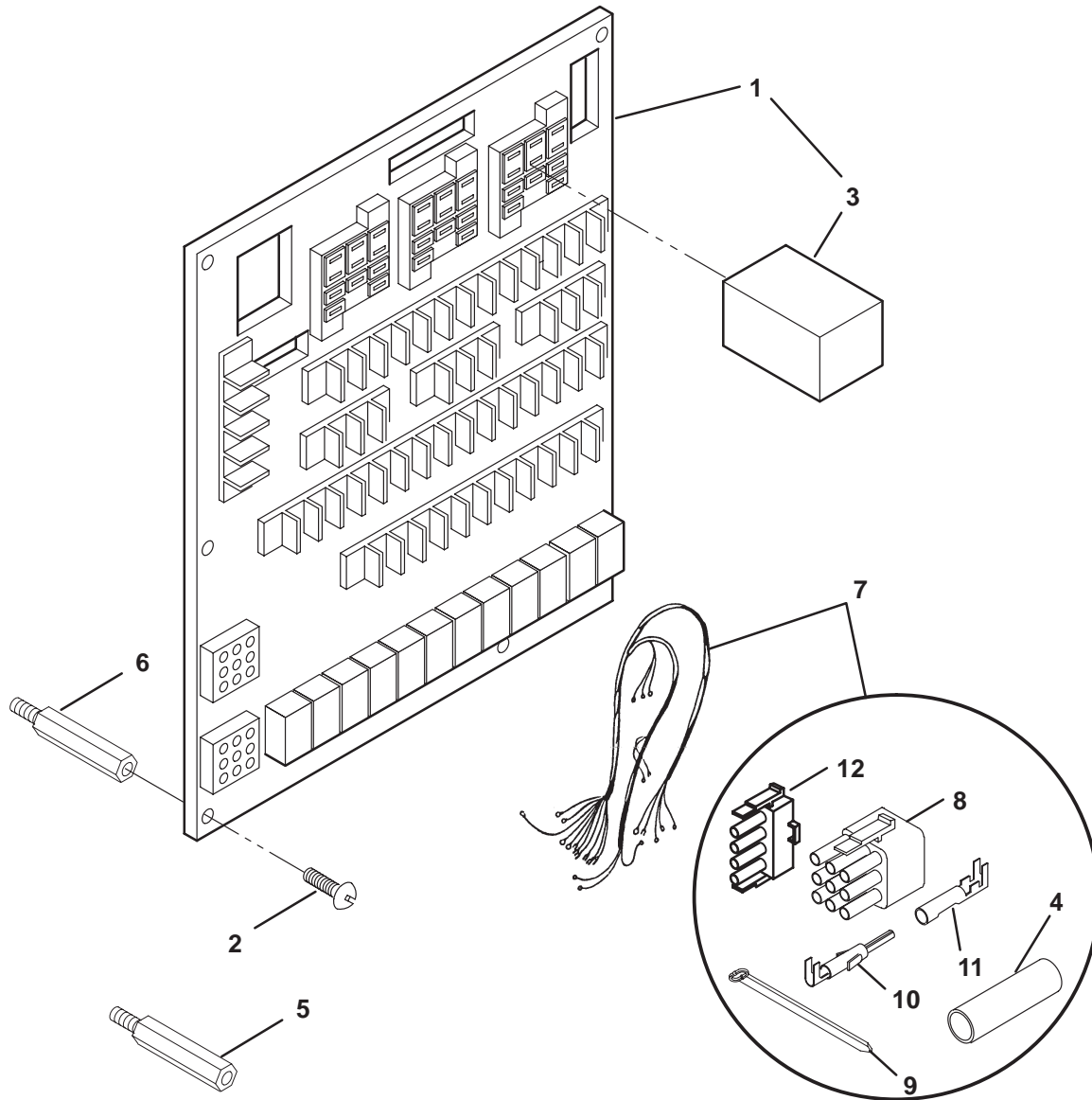
Vacuum Switch



C059

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0101	1	Nipple, Close	5	505-0098	1	Nipple, Close
2	505-0060	1	Tee, Pipe	6	148-1099	1	Switch, Vacuum
3	505-0395	1	Bushing, Reducer	7	338-3667	1	Harness, Vacuum Switch
4	505-1346	1	Elbow - 90°	8	332-1794	A/R	Tie, Cable

## Alarm Relay Board



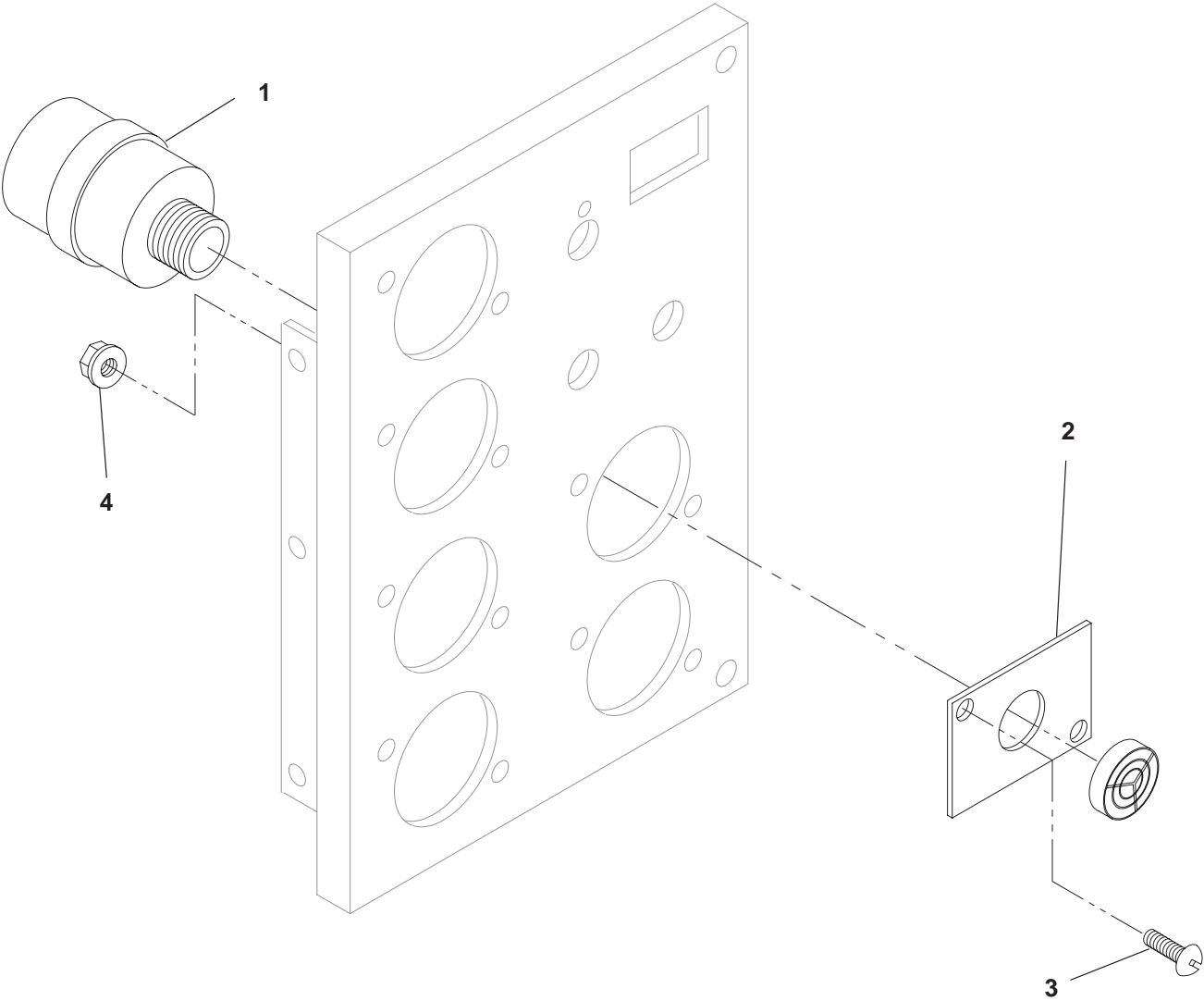
KJ03

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-4111-03	1	Board, PC – Alarm Relay	7	338-2875	1	Harness, Alarm Relay Board (Includes parts marked *)
2	815-0544	6	Screw, Machine – Round Head – Cross Recessed W/IT (#6-32 x .50)	8	323-1291	2	* Plug, 9 Pin
3	307-1058	3	Relay (12 VDC) (K1, K2, K3)	9	332-1445	A/R	* Tie, Cable
4	898-0025	5	* Sleeving (1/2")	10	323-1199	9	* Pin, Contact
5	870-0517-02	2	Standoff – Alarm Board (1.31 lg.)	11	323-1200	12	* Socket, Contact
6	870-0517-01	4	Standoff – Alarm Board (1.25 lg.)	12	323-1292	1	* Plug, 4 Pin

\* = Parts includes in 338-2875 Harness Assembly



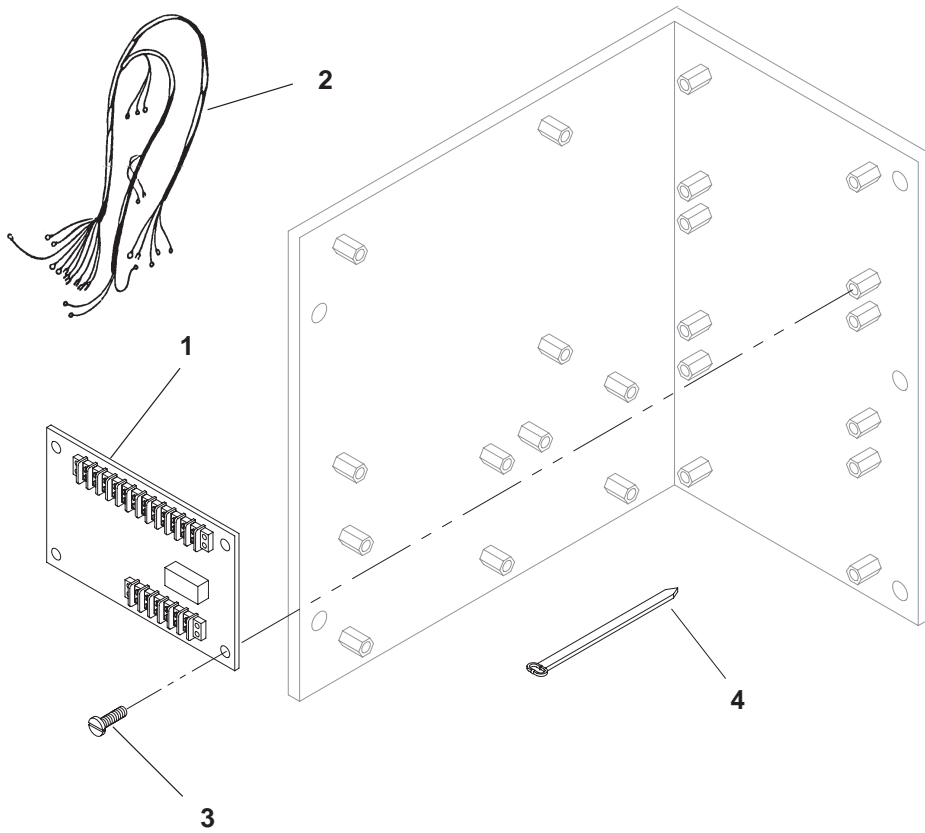
Audible Alarm



KL39

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0133	1	Signal, Audible	4	870-0183	2	Nut, Hex W/ET (#6-32)
2	319-0898	1	Plate, Audible Signal				
3	815-0385	2	Screw, Machine – Round Head (#6-32 x 1/2)				

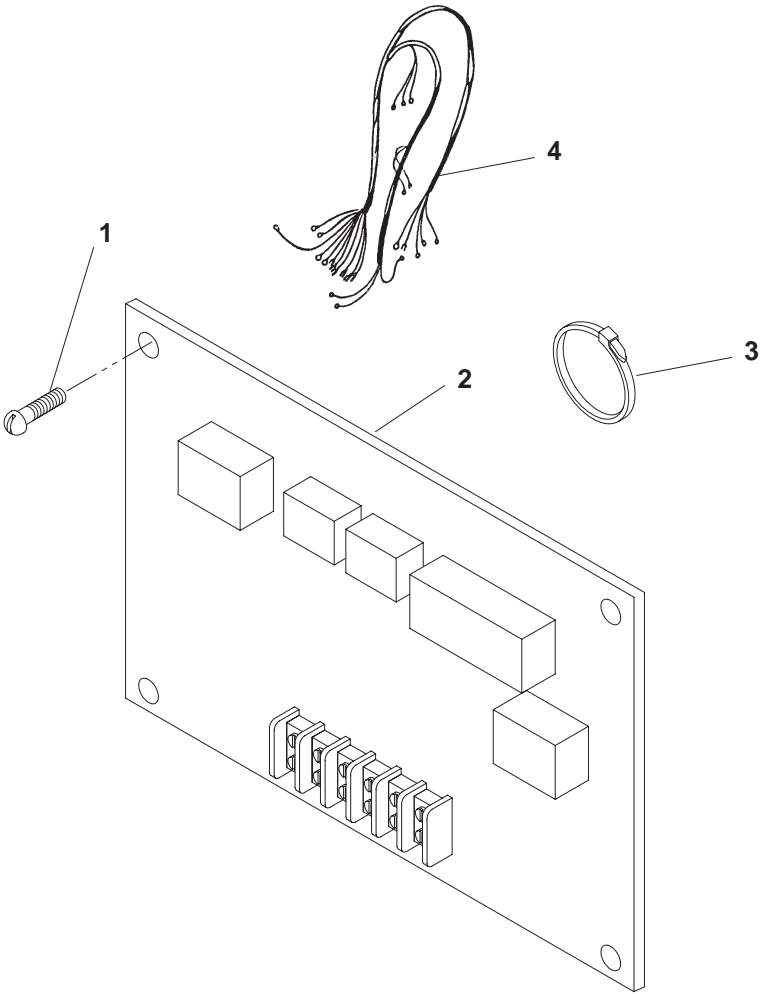
## Common Alarm



H560

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-4218-01	1	Board, PC – Diode	4	332-1445	A/R	Tie, Cable
2	338-3033	1	Harness, Common Alarm				
3	812-0063	4	Screw, Machine – Round Head (#6-32 x 1/2)				

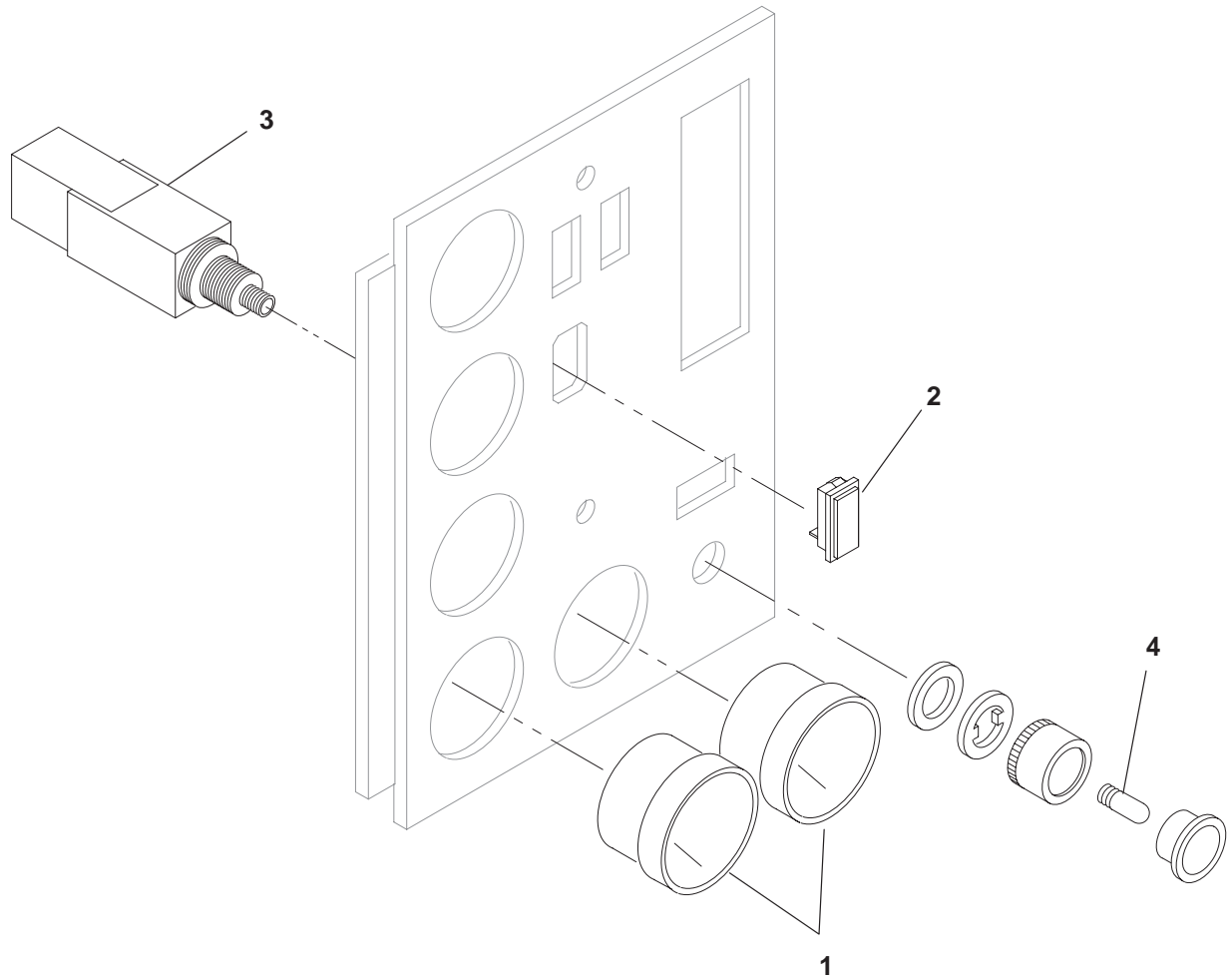
Time Delay Start/Stop



KL39

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0544	4	Screw, Machine – Round Head – Cross Recessed W/ IT (#6-32 x 1/2)	3	332-1445	3	Tie, Cable
2	300-2897	1	PCB, Time Delay Start/Stop	4	338-1904	1	Harness, Time Delay Start/ Stop

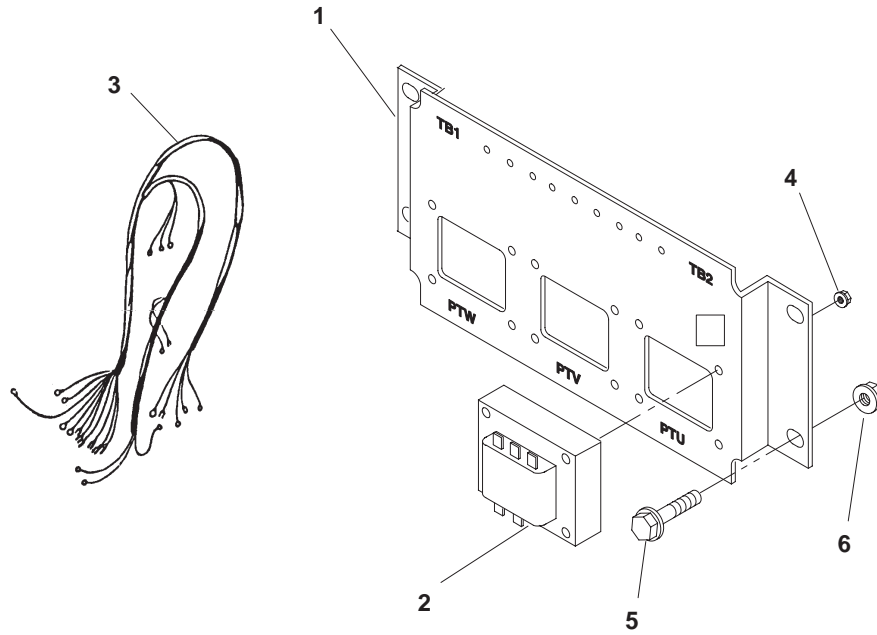
## Emergency Stop Switch



KL39

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1723	2	Ammeter – Blank Scale	4	322-0394	1	Bulb, Replacement
2	301-6257	1	Switch – Blank				
3	308-0853	1	Switch, Pushbutton – Emergency Stop (Includes Bulb) (S14)				

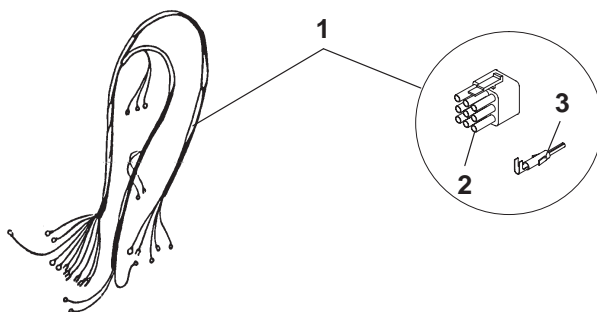
## Meter Transformer



H560,H562,H559,R114,K001

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1498	1	Bracket, Transformer	5	821-0016	4	Screw, Self-Locking – Hex Flange Head (5/16-18 x 3/4)
2	315-0717	3	Transformer, Meter	6	870-0257	4	Nut, Self Locking (5/16-18)
3	338-3337	1	Harness, Transformer				
4	870-0221	12	Nut, Hex – W/ET (#8-32)				

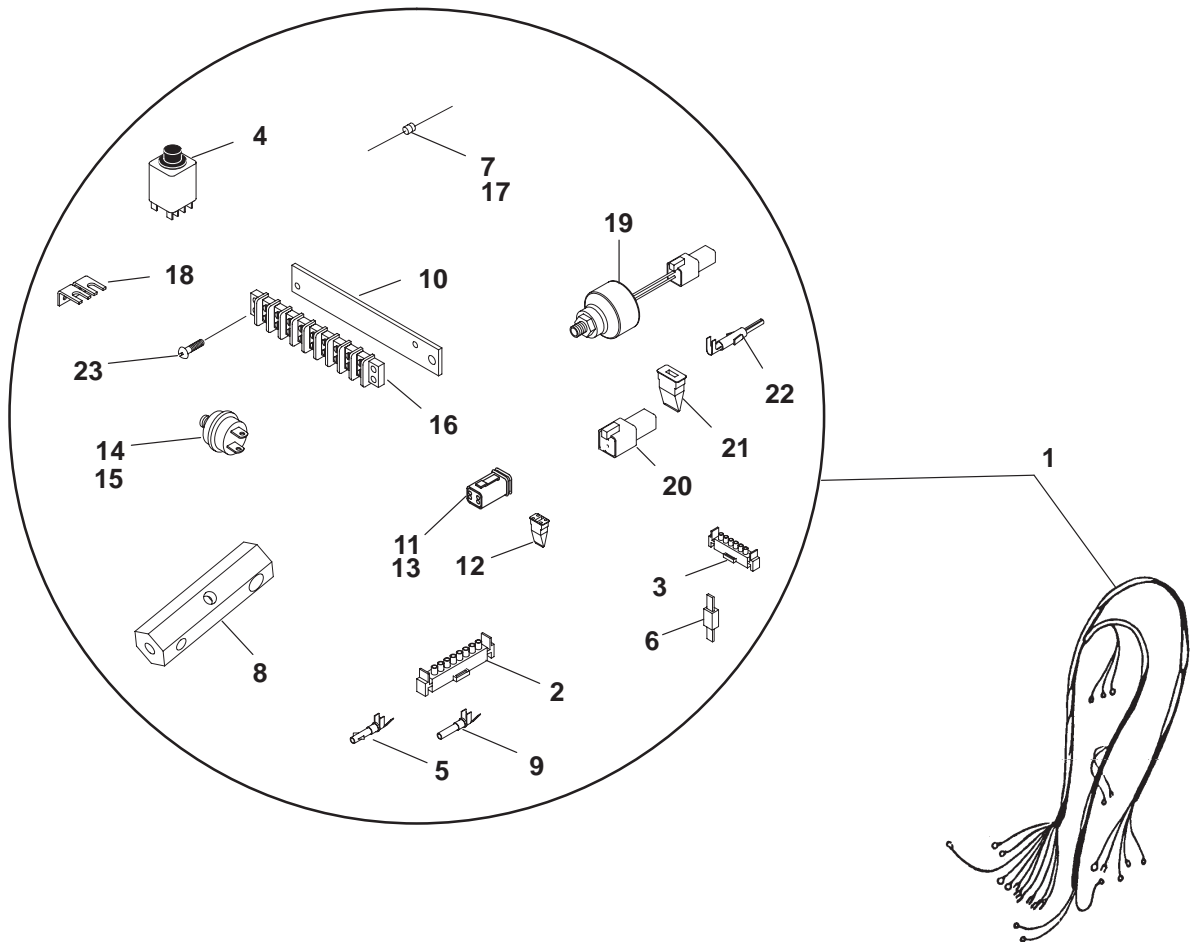
## Wiring Harness AC Control



CP01,H559,560,562,R114,K001

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – AC Control (Includes Connector Plug and Contact Pins)	2			Plug, Connector (9 Place)
	338–3405	1	Generators With Full Rated, 3 Phase, 60 Hertz Output at 347/600 Volts (16 Wire, 41") (Includes Parts Marked *) (J2 to 5,6,7,8, GND, P1, CT21,22,23)	323–1644–01	2	*	Generators With Full Rated, 3 Phase, 60 Hertz Output at 347/600 Volts (P1, J2)
				323–1644–01	1	#	All Other Generators (J2) Pin, Contact
				323–1647	18	*	Generators With Full Rated, 3 Phase, 60 Hertz Output at 347/600 Volts
	338–3403	1	All Other Generators (12 Wire, 38") (Includes Parts Marked #) (J2 to 4,5,6,7,8, GND, CT21,22,23)	323–1647	9	#	All Other Generators
				* – Parts Used In 338–3405 AC Control Wiring Harness			
				# – Parts Used In 338–3403 AC Control Wiring Harness			

# Engine Harness Spec A



H562,H559,H569

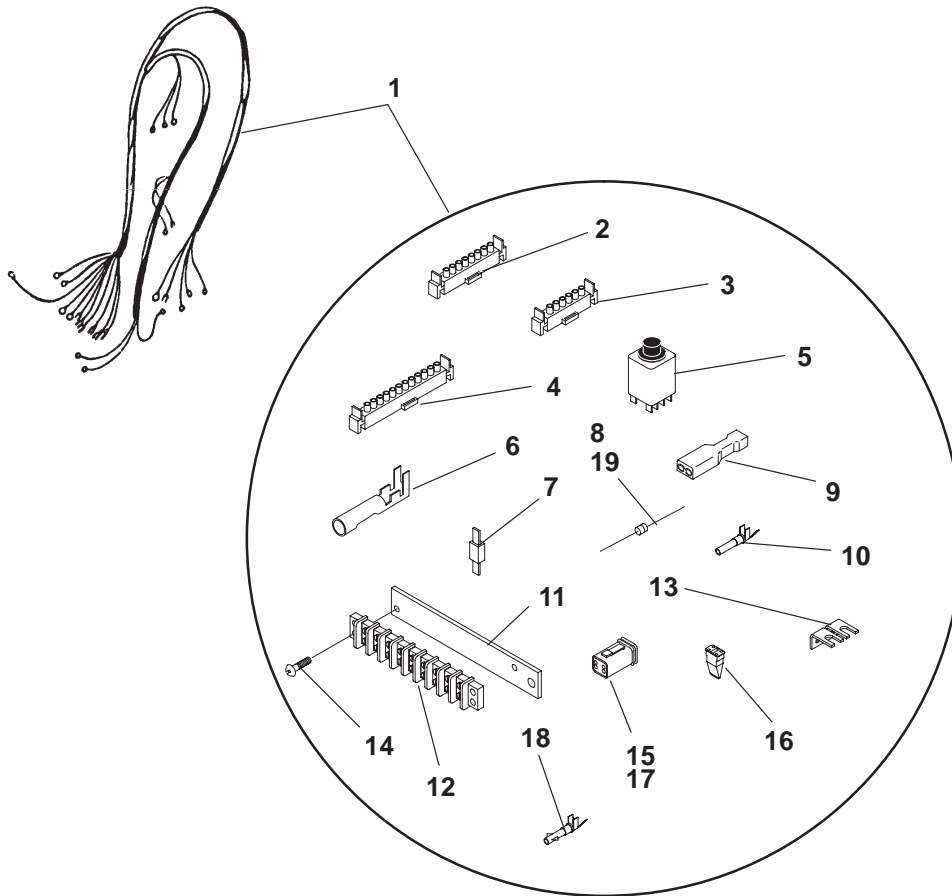
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3674	1	Harness, Engine	13	323-1546	1	+ Plug (4 Pin)
	338-3663	1	Detector Control (Includes Parts Marked +)	14	309-0641-07	1	+ Switch, Pressure (pre-LOP) (S5)
		1	Sentinel Control (Includes Parts Marked #)	15	309-0641-03	1	+ Switch, Pressure (LOP) (S1)
2	323-1306	1	+ Housing, Connector - 8 Place (J1)	16	332-0604	1	#+ Block, Terminal
3	323-1304	1	+ Housing, Connector - 6 Place (J2)	17	359-0115	1	# Diode, Zener
4	307-2817-01	1	#+ Relay	18	332-1043	1	#+ Jumper
5	323-1200	12	+ Socket, Contact (Used in J1, J2)	19	193-0448	1	+ Sender, Pressure - Oil (E1) (Includes Parts Marked *)
6			#+ Rectifier, Silicon	20	323-1549	1	* Connector, Receptacle - 4 Place
	357-0030	3	Sentinel Control	21	323-1548	1	* Wedge, Receptacle
	357-0030	1	Detector Control	22	323-1492	4	* Socket, Contact
7	351-1599-42	1	#+ Resistor (24 ohm, 5 watt)	23	323-1492	2	+ Screw, Machine - Round Head - Cross Recessed - W/IT (8-32 x .50)
8	120-1312-02	1	+ Manifold, Oil Pressure				
9	323-1492	3	+ Socket, Contact				
10	319-2006-01	1	+ Bracket, Terminal				
11	323-1591	1	+ Plug, Connector				
12	323-1548	1	+ Wedge, Plug (4 Pin)				

+ - Parts Included in 338-3674 Wiring Harness

# - Parts Included in 338-3663 Wiring Harness

\* - Parts Included in 193-0448 Oil Pressure Sender

## Engine Harness Spec B



H562,H559,H569

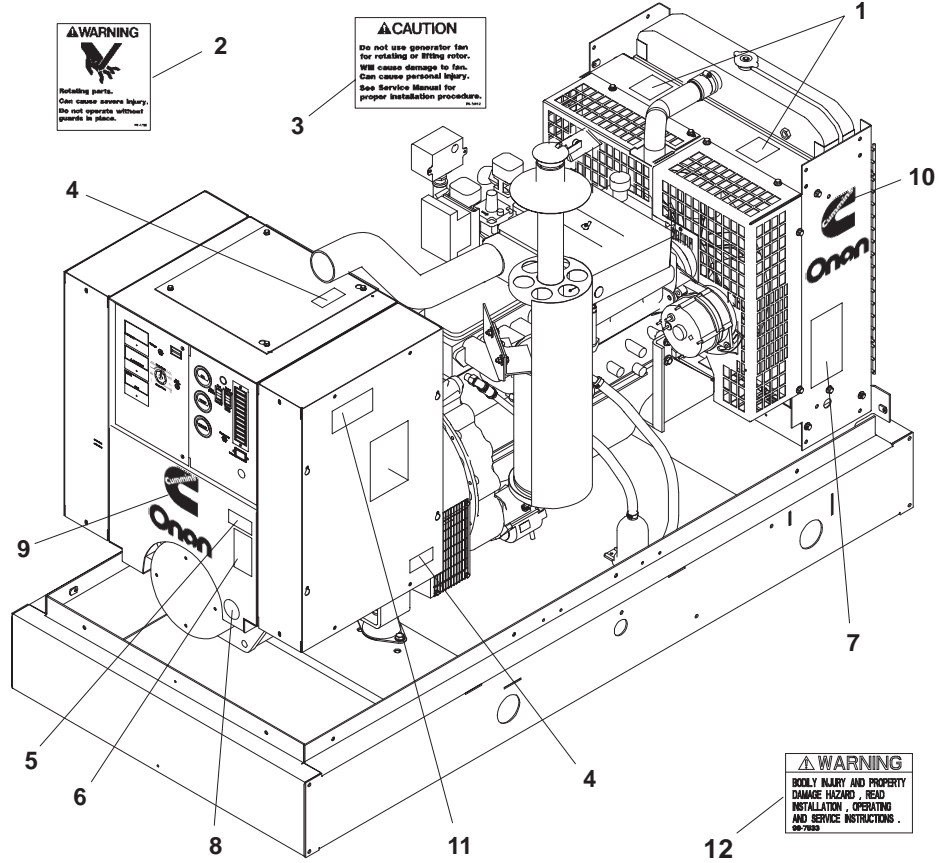
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3664	1	Harness, Engine	9	332-1995	A/R	* Socket, Contact
	338-3663	1	Detector Control (Includes Parts Marked *)	10	323-1492	A/R	* Terminal, Socket
				11	319-2006-01	1	* Bracket, Terminal
2	323-1306	1	* Housing, Connector - 8 Place (J1)	12	332-0604	1	*^ Block, Terminal
3	323-1304	1	* Housing, Connector - 6 Place (J2)	13	332-1043	4	*^ Jumper
4	323-1374-12	1	* Housing, Connector - 12 Place (J3)	14	815-0538	2	* Screw, Machine - Round Head - Cross Recessed - W/IT (8-32 x .50)
5	307-2817-01	1	*^ Relay	15	323-1591	1	* Plug, Connector
6	323-1200	A/R	* Socket, Contact	16	323-1548	1	* Wedge, Plug (4 Pin)
7			*^ Rectifier, Silicon	17	323-1546	1	* Plug (4 Pin)
	357-0030	1	Detector Control	18	323-1302	A/R	* Pin, Contact
	357-0030	3	Sentinel Control	19	359-0115	1	^ Diode, Zener
8	351-1599-42	1	*^ Resistor (24Ω)				

\* - Parts Included in 338-3664 Wiring Harness

^ - Parts Included in 338-3663 Wiring Harness



## Labels



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-4730	2	Label, Warning	7	098-4732	2	Label, Warning
2	098-4798	1	Label, Warning	8	098-4500	1	Label, PTS
3	098-5842	1	Label, Caution	9	098-6139-04	1	Label, Model ID
4	098-5347	3	Label, Danger	10	098-6139-06	2	Label, Model ID
5	098-6074-02	1	Label, Warning	11	098-2304	1	Label, Warning
6	098-5759	1	Label, Warning	12	098-7533	1	Label, Warning

## 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>
098-2304, <b>41, 75</b>		130-4622, <b>24</b>		155-3200, <b>22</b>		211-0422, <b>47</b>	
098-4500, <b>31, 33, 75</b>		130-4623, <b>24</b>		155-3201, <b>22, 23</b>		220-4233, <b>48</b>	
098-4730, <b>31, 33, 75</b>		130-4766, <b>24</b>		155-3214, <b>23</b>		220-4293-04, <b>47</b>	
098-4732, <b>31, 33, 75</b>		130-4767, <b>24</b>		155-3219, <b>23</b>		220-4293-05, <b>47</b>	
098-4798, <b>75</b>		130-4770-01, <b>24</b>		155-3238, <b>31, 33</b>		220-4447-06, <b>45</b>	
098-5298, <b>55</b>		130-4786, <b>24, 25</b>		166-0731, <b>7</b>		220-4447-07, <b>45</b>	
098-5347, <b>75</b>		130-4787, <b>24, 25</b>		186-6274, <b>37</b>		220-4447-08, <b>45</b>	
098-5387, <b>55</b>		130-4791, <b>24, 25</b>		186-6618, <b>37</b>		220-4447-11, <b>45</b>	
098-5429, <b>31, 33</b>		130-4806, <b>24</b>		186-6619, <b>37</b>		220-4447-12, <b>45</b>	
098-5759, <b>75</b>		130-4808, <b>24, 25</b>		186-6675, <b>37</b>		220-4447-13, <b>45</b>	
098-5842, <b>75</b>		130-4814, <b>11, 13</b>		191-0578, <b>7</b>		220-4447-14, <b>45</b>	
098-5854-04, <b>41</b>		132-0331, <b>7</b>		191-1411, <b>7</b>		220-4447-16, <b>45</b>	
098-6074-02, <b>75</b>		140-3139, <b>9</b>		191-1412, <b>7</b>		220-4447-26, <b>45</b>	
098-6139-04, <b>75</b>		140-3140, <b>9</b>		191-1413, <b>7</b>		226-0893, <b>43</b>	
098-6139-06, <b>31, 75</b>		140-3145, <b>9</b>		191-1981, <b>8</b>		226-3505-01, <b>43</b>	
098-6195, <b>58</b>		140-3146, <b>9</b>		191-2034, <b>7</b>		226-3505-03, <b>43</b>	
098-7281, <b>49</b>		140-3147, <b>9</b>		191-2035, <b>7</b>		226-3505-04, <b>43</b>	
098-7451, <b>33</b>		140-3148, <b>9</b>		191-2061, <b>7</b>		231-0383, <b>47</b>	
098-7470, <b>33</b>		141-0852, <b>18</b>		191-2200, <b>37</b>		231-0387, <b>7</b>	
098-7477, <b>55</b>		141-0981, <b>18</b>		191-2209, <b>8</b>		232-3421, <b>47</b>	
098-7533, <b>75</b>		148-0597, <b>13, 14, 17</b>		191-2213, <b>7, 37</b>		232-3441, <b>7</b>	
102-0664, <b>44</b>		148-0625, <b>11, 13</b>		191-2215, <b>37</b>		232-3462-01, <b>52</b>	
102-1463, <b>44</b>		148-0637, <b>16, 17</b>		191-2216, <b>37</b>		232-3462-03, <b>48</b>	
104-1771, <b>7</b>		148-0998, <b>15, 17</b>		191-2217, <b>37</b>		232-3730-03, <b>47</b>	
104-1945, <b>7</b>		148-1095, <b>18</b>		191-2218, <b>37</b>		232-3819-01, <b>47</b>	
104-1947, <b>7</b>		148-1096, <b>13, 14, 16, 17</b>		191-2219, <b>37</b>		232-3819-02, <b>47</b>	
104-1949, <b>7</b>		148-1098, <b>11, 13</b>		191-2221, <b>37</b>		232-3940, <b>47</b>	
120-1312-02, <b>73</b>		148-1099, <b>65</b>		191-2222, <b>37</b>		232-3959-01, <b>47</b>	
122-0193, <b>7</b>		148-1101, <b>11, 13</b>		193-0318, <b>7</b>		232-3972, <b>48</b>	
123-1543, <b>7</b>		150-0723, <b>52</b>		193-0351, <b>55</b>		234-0875-01, <b>52</b>	
123-1544, <b>7</b>		150-0939, <b>20</b>		193-0448, <b>7, 73</b>		234-0875-02, <b>48</b>	
128-0154-03, <b>33</b>		150-0956, <b>52</b>		193-0451, <b>64</b>		234-0878, <b>47</b>	
130-1788, <b>24</b>		150-2309, <b>52</b>		193-0463, <b>64</b>		234-0936-01, <b>47</b>	
130-1909, <b>7</b>		150-2651, <b>20</b>		193-0466, <b>55</b>		234-0936-02, <b>47</b>	
130-1910, <b>7</b>		150-2690, <b>20</b>		193-0468, <b>27, 29</b>		234-0980, <b>47</b>	
130-1911, <b>7</b>		150-2692-01, <b>20</b>		193-0481, <b>28</b>		300-2897, <b>69</b>	
130-1912, <b>7</b>		155-1993, <b>21</b>		201-3434-01, <b>47</b>		300-4111-03, <b>66</b>	
130-3660-03, <b>35</b>		155-2062-09, <b>22</b>		201-3434-02, <b>47</b>		300-4218-01, <b>68</b>	
130-3930, <b>7</b>		155-2062-10, <b>23</b>		201-3446, <b>48</b>		300-4296, <b>55</b>	
130-4281, <b>30</b>		155-2175, <b>23</b>		201-3557-01, <b>47</b>		300-4515-01, <b>58</b>	
130-4596-01, <b>24</b>		155-3102-01, <b>22</b>		201-3557-02, <b>47</b>		300-4515-02, <b>58</b>	
130-4596-02, <b>24</b>		155-3102-02, <b>23</b>		201-3557-03, <b>47</b>		300-5098, <b>55</b>	
130-4602, <b>24</b>		155-3167, <b>23</b>		201-3557-04, <b>47</b>		301-6257, <b>70</b>	

## 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>
301-9054-01, <b>55</b>		319-1498, <b>71</b>		320-1960-06, <b>43</b>		321-0175, <b>57</b>	
301-9055-01, <b>55</b>		319-2006-01, <b>73, 74</b>		320-1960-10, <b>43</b>		321-0353, <b>57</b>	
302-0885, <b>55</b>		319-2653, <b>31, 33</b>		320-1961-01, <b>42, 43</b>		322-0004, <b>55</b>	
302-1147, <b>63</b>		319-2978, <b>39, 41</b>		320-1961-02, <b>42, 43</b>		322-0360-01, <b>55</b>	
302-1148, <b>55, 57</b>		319-2979-02, <b>39</b>		320-1961-03, <b>42, 43</b>		322-0361, <b>55</b>	
302-1641, <b>55</b>		319-2989, <b>57</b>		320-1961-04, <b>42, 43</b>		322-0363, <b>55</b>	
302-1683, <b>63</b>		319-2991, <b>57</b>		320-1961-05, <b>43</b>		322-0394, <b>70</b>	
302-1685, <b>55</b>		319-2996, <b>38, 39, 41</b>		320-1961-06, <b>43</b>		322-0431-07, <b>27</b>	
302-1723, <b>70</b>		319-3030, <b>55</b>		320-1961-07, <b>43</b>		322-0431-08, <b>62</b>	
302-1724, <b>55</b>		319-3072, <b>39, 41</b>		320-1961-08, <b>43</b>		323-1199, <b>66</b>	
302-1725, <b>55</b>		319-3149, <b>41</b>		320-1961-09, <b>42, 43</b>		323-1200, <b>66, 73, 74</b>	
302-1753, <b>57</b>		319-3150, <b>41</b>		320-1961-10, <b>42, 43</b>		323-1291, <b>66</b>	
302-1845-03, <b>53</b>		319-3151, <b>41</b>		320-1961-11, <b>42, 43</b>		323-1292, <b>66</b>	
302-1845-04, <b>53</b>		319-3207, <b>38</b>		320-1961-12, <b>42, 43</b>		323-1302, <b>55, 74</b>	
302-1968, <b>55, 57</b>		319-3208, <b>38</b>		320-1961-13, <b>42, 43</b>		323-1304, <b>73, 74</b>	
302-2002, <b>55, 57</b>		319-3240, <b>41</b>		320-1961-14, <b>43</b>		323-1306, <b>73, 74</b>	
303-0032, <b>55</b>		319-3242, <b>41</b>		320-1962-03, <b>42, 43</b>		323-1308, <b>55</b>	
303-0261, <b>55, 59, 60</b>		319-3601-02, <b>61</b>		320-1970-03, <b>42</b>		323-1374-12, <b>74</b>	
303-0285-01, <b>59, 60</b>		320-1688-01, <b>59, 60</b>		320-1970-04, <b>42</b>		323-1410-03, <b>62</b>	
304-0807, <b>47</b>		320-1824-02, <b>57</b>		320-1970-05, <b>42</b>		323-1492, <b>73, 74</b>	
305-0823, <b>59, 60</b>		320-1941, <b>57</b>		320-1970-06, <b>42</b>		323-1546, <b>73, 74</b>	
305-0868, <b>60</b>		320-1959-01, <b>43</b>		320-1975-01, <b>42</b>		323-1548, <b>73, 74</b>	
305-0901, <b>62</b>		320-1959-02, <b>43</b>		320-1975-02, <b>42</b>		323-1549, <b>73</b>	
305-0902-01, <b>50, 51</b>		320-1959-03, <b>43</b>		320-1975-03, <b>42</b>		323-1591, <b>73, 74</b>	
305-0982, <b>59, 60</b>		320-1959-04, <b>43</b>		320-1975-04, <b>42</b>		323-1644-01, <b>72</b>	
307-0268-01, <b>11, 13</b>		320-1959-05, <b>43</b>		320-1975-05, <b>42</b>		323-1644-02, <b>55, 57</b>	
307-0312-01, <b>13, 14, 16, 17</b>		320-1959-06, <b>43</b>		320-1975-06, <b>42</b>		323-1647, <b>72</b>	
307-1058, <b>66</b>		320-1959-07, <b>43</b>		320-1977-01, <b>42</b>		323-1648, <b>55, 57</b>	
307-2677-03, <b>57</b>		320-1959-08, <b>43</b>		320-1977-02, <b>42</b>		323-1708, <b>27, 29, 61</b>	
307-2817-01, <b>61, 73, 74</b>		320-1959-09, <b>43</b>		320-1978-01, <b>42</b>		323-1709, <b>27, 29, 61</b>	
307-2871, <b>57</b>		320-1959-10, <b>43</b>		320-1978-02, <b>42</b>		323-1712, <b>29, 61</b>	
308-0853, <b>70</b>		320-1959-11, <b>43</b>		320-1979-01, <b>42</b>		323-1765, <b>27, 29, 61</b>	
308-1010, <b>55</b>		320-1959-12, <b>42, 43</b>		320-1979-02, <b>42</b>		330-0142, <b>49</b>	
308-1011, <b>55, 57</b>		320-1959-13, <b>42, 43</b>		320-1979-04, <b>42</b>		331-0027, <b>13, 15, 17</b>	
308-1052, <b>55, 57</b>		320-1959-14, <b>42, 43</b>		320-1981-01, <b>42, 43</b>		332-0052, <b>55</b>	
309-0450, <b>7</b>		320-1959-15, <b>42, 43</b>		320-1981-02, <b>42, 43</b>		332-0604, <b>73, 74</b>	
309-0552, <b>7</b>		320-1959-16, <b>42, 43</b>		320-1986-05, <b>43</b>		332-0804, <b>57</b>	
309-0641-03, <b>73</b>		320-1959-17, <b>43</b>		320-1986-07, <b>43</b>		332-0897, <b>57</b>	
309-0641-07, <b>73</b>		320-1959-18, <b>43</b>		320-1986-08, <b>43</b>		332-0941, <b>11, 13, 30</b>	
309-0641-19, <b>7</b>		320-1959-19, <b>43</b>		320-1991-01, <b>42</b>		332-0942, <b>58</b>	
315-0717, <b>71</b>		320-1959-20, <b>43</b>		320-1991-02, <b>42</b>		332-1043, <b>59, 73, 74</b>	
319-0754, <b>51</b>		320-1959-21, <b>43</b>		320-1992-01, <b>42</b>		332-1389, <b>7, 9, 49</b>	
319-0898, <b>67</b>		320-1959-22, <b>43</b>		320-1992-02, <b>42</b>		332-1445, <b>20, 55, 66, 68, 69</b>	

## 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>
332-1473, <b>39, 41</b>		338-3391, <b>57</b>		405-5903, <b>31, 33</b>		406-0835, <b>31, 33</b>	
332-1554, <b>20</b>		338-3395, <b>60</b>		405-5908, <b>31, 33</b>		416-0643, <b>7</b>	
332-1571, <b>50, 51</b>		338-3396, <b>51</b>		405-5910, <b>31, 33</b>		416-0993-02, <b>34</b>	
332-1789, <b>58</b>		338-3403, <b>72</b>		405-5916, <b>31, 33</b>		416-1019, <b>7</b>	
332-1794, <b>7, 25, 65</b>		338-3405, <b>72</b>		405-5952, <b>33</b>		416-1033, <b>34</b>	
332-1990, <b>57</b>		338-3429, <b>55</b>		405-5953, <b>33</b>		501-0003, <b>7</b>	
332-1992, <b>57, 58</b>		338-3451, <b>50</b>		405-5954, <b>33</b>		502-0002, <b>7</b>	
332-1995, <b>74</b>		338-3594, <b>27</b>		405-5955, <b>33</b>		502-0029, <b>7</b>	
332-2430, <b>58</b>		338-3654, <b>11, 13</b>		405-5956, <b>33</b>		502-0942, <b>11, 13, 30</b>	
332-2468, <b>57</b>		338-3662, <b>7</b>		405-5957, <b>33</b>		502-0943, <b>11, 13</b>	
332-2630, <b>57</b>		338-3663, <b>73, 74</b>		405-5958, <b>33</b>		502-0971, <b>11, 13</b>	
332-2634, <b>7</b>		338-3664, <b>74</b>		405-5960, <b>33</b>		502-1173, <b>11, 13</b>	
332-2697, <b>58</b>		338-3666, <b>13, 17</b>		405-5961, <b>33</b>		502-1215, <b>30</b>	
332-2723, <b>55</b>		338-3667, <b>65</b>		405-5966, <b>33</b>		503-0131, <b>13, 26, 44</b>	
332-2744-07, <b>41</b>		338-3668, <b>28</b>		405-5987, <b>33</b>		503-0183, <b>11, 30</b>	
332-2877, <b>57</b>		338-3674, <b>73</b>		405-5988, <b>33</b>		503-0365, <b>24, 25</b>	
332-2921, <b>7</b>		338-3731, <b>61</b>		405-5990, <b>33</b>		503-0386, <b>26</b>	
332-2974, <b>57</b>		338-3740, <b>19</b>		405-5991-01, <b>33</b>		503-0398, <b>11, 13</b>	
332-2987, <b>38, 47</b>		338-3743, <b>61</b>		405-5991-02, <b>33</b>		503-0465, <b>24, 25</b>	
332-3023, <b>49</b>		338-3751, <b>29</b>		405-5995, <b>33</b>		503-1103, <b>11, 13</b>	
332-3024-11, <b>49</b>		350-1222, <b>59</b>		405-5996, <b>33</b>		503-1606, <b>7</b>	
332-3228, <b>49</b>		351-1599-42, <b>73, 74</b>		405-5997, <b>33</b>		503-1608, <b>7</b>	
332-3338, <b>58</b>		355-0189, <b>55</b>		405-5998, <b>33</b>		503-1634-02, <b>11, 13</b>	
332-3561, <b>9</b>		357-0030, <b>27, 73, 74</b>		405-6000-02, <b>33</b>		503-1657, <b>44</b>	
333-0133, <b>67</b>		357-0091, <b>47</b>		405-6000-03, <b>33</b>		503-1870-05, <b>9</b>	
333-0438-07, <b>49</b>		357-0092, <b>47</b>		405-6001-01, <b>33</b>		503-1988, <b>11, 13, 30</b>	
333-0438-08, <b>49</b>		357-0114, <b>58</b>		405-6003, <b>33</b>		503-2083, <b>24, 25</b>	
333-0588-03, <b>30</b>		358-0135-01, <b>47</b>		405-6005, <b>33</b>		503-2084, <b>24, 25</b>	
333-0588-04, <b>30</b>		358-0135-02, <b>47</b>		405-6010, <b>33</b>		504-0028, <b>24</b>	
333-0616, <b>30</b>		359-0115, <b>73, 74</b>		405-6015, <b>33</b>		504-0171, <b>13, 17</b>	
335-0110, <b>58</b>		402-0527, <b>55, 57</b>		405-6018, <b>31, 33</b>		504-0172, <b>7</b>	
335-0173, <b>58</b>		402-0730, <b>35</b>		405-6029, <b>33</b>		504-0176, <b>26, 44</b>	
337-0049, <b>55, 57</b>		403-4107, <b>36</b>		405-6030, <b>33</b>		505-0002, <b>11, 13, 17</b>	
337-0090, <b>35</b>		403-4110, <b>36</b>		405-6034, <b>33</b>		505-0007, <b>7, 64</b>	
338-1904, <b>69</b>		403-4116, <b>36</b>		405-6035, <b>33</b>		505-0017, <b>30</b>	
338-2278, <b>55</b>		403-4241-01, <b>35</b>		405-6068, <b>33</b>		505-0020, <b>13, 15, 17</b>	
338-2875, <b>66</b>		403-4248, <b>35</b>		405-6109, <b>33</b>		505-0021, <b>11, 13, 17</b>	
338-3011, <b>48</b>		403-4267, <b>34</b>		405-6122, <b>25</b>		505-0027-01, <b>11, 13</b>	
338-3033, <b>68</b>		403-4270, <b>35</b>		406-0332, <b>55</b>		505-0051, <b>16, 17</b>	
338-3034, <b>62</b>		405-5745, <b>31, 33</b>		406-0333, <b>55</b>		505-0057, <b>11, 13</b>	
338-3035-01, <b>27</b>		405-5832, <b>31</b>		406-0334, <b>55</b>		505-0060, <b>11, 13, 30, 65</b>	
338-3326, <b>55</b>		405-5841, <b>33</b>		406-0782, <b>33</b>		505-0071, <b>30</b>	
338-3337, <b>71</b>		405-5902, <b>31, 33</b>		406-0831, <b>31, 33</b>		505-0072, <b>11, 13</b>	

## 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>
505-0098, <b>65</b>		525-0304, <b>5</b>		800-2543-02, <b>35</b>		850-0040, <b>20</b>	
505-0099, <b>13, 17, 64</b>		525-0305, <b>5</b>		800-3009, <b>47</b>		850-0045, <b>55</b>	
505-0100, <b>14, 16</b>		525-0306, <b>5</b>		800-3017-20, <b>47</b>		850-0050, <b>41</b>	
505-0101, <b>11, 13, 30, 65</b>		526-0011, <b>33</b>		800-3017-37, <b>47</b>		850-0055, <b>7, 21</b>	
505-0102, <b>13, 14, 16, 17</b>		526-0018, <b>9, 20, 55, 57</b>		800-3017-39, <b>47</b>		850-0114-54, <b>47</b>	
505-0105, <b>15</b>		526-0029, <b>41</b>		800-3017-42, <b>47</b>		850-0114-55, <b>47</b>	
505-0129, <b>11, 13</b>		526-0030, <b>7, 11, 13</b>		800-3034, <b>49</b>		850-2003, <b>49</b>	
505-0166, <b>15, 17</b>		526-0113, <b>22, 23</b>		801-0027, <b>25</b>		850-2004, <b>47, 49</b>	
505-0184, <b>64</b>		526-0174, <b>47</b>		801-0519-02, <b>24</b>		850-2005, <b>7, 8, 47</b>	
505-0307, <b>14, 16</b>		526-0238-01, <b>35</b>		805-0015, <b>47</b>		850-2006, <b>47, 48</b>	
505-0337, <b>13, 17</b>		526-0240, <b>52</b>		812-0063, <b>68</b>		850-2008, <b>7, 8</b>	
505-0395, <b>65</b>		526-0249-01, <b>11, 13, 35</b>		812-0082, <b>51</b>		850-2010, <b>7, 38, 47, 48</b>	
505-0438, <b>14, 16</b>		526-0356, <b>21, 22, 23</b>		812-0084, <b>62</b>		851-0039, <b>7</b>	
505-1346, <b>7, 65</b>		526-0399-62, <b>47</b>		815-0385, <b>55, 67</b>		853-0008, <b>55</b>	
505-1375, <b>11</b>		526-0423, <b>20</b>		815-0388, <b>50, 51, 55, 57</b>		853-0013, <b>52</b>	
505-1497, <b>13, 17</b>		526-0433, <b>35</b>		815-0538, <b>73, 74</b>		854-0020, <b>20</b>	
505-1498, <b>14</b>		526-2050, <b>47, 49</b>		815-0544, <b>66, 69</b>		856-0003, <b>57</b>	
505-1527, <b>13</b>		526-2060, <b>47</b>		815-0761-01, <b>48</b>		856-0008, <b>38, 39, 41, 55, 57, 58</b>	
508-0051, <b>55</b>		526-2080, <b>52</b>		815-0792-04, <b>49</b>		856-0010, <b>52</b>	
508-0139, <b>47</b>		526-2100, <b>47</b>		815-0875-02, <b>55, 57</b>		856-0013, <b>35</b>	
508-0228, <b>49</b>		526-2120, <b>38</b>		815-0901-06, <b>55</b>		860-2005, <b>47, 49</b>	
508-0239, <b>39, 41</b>		720-1123, <b>47</b>		815-0905-08, <b>55, 59, 60</b>		860-2006, <b>7, 8, 47</b>	
508-0285, <b>24, 25</b>		740-1006, <b>24, 25</b>		818-0231-02, <b>9, 24, 25, 31, 33, 41</b>		860-2008, <b>7, 8</b>	
508-0305-02, <b>38, 57</b>		775-0049, <b>48</b>		818-0237-01, <b>9, 31, 33</b>		860-2009, <b>38, 47</b>	
508-1057, <b>47</b>		800-0024, <b>58</b>		821-0004, <b>55</b>		862-0001, <b>52</b>	
509-0266-01, <b>47</b>		800-0026, <b>22, 23</b>		821-0014, <b>55, 57</b>		862-0015, <b>22</b>	
510-0165, <b>47</b>		800-0027, <b>7</b>		821-0016, <b>71</b>		862-0044, <b>35</b>	
511-0074, <b>7</b>		800-0028, <b>22</b>		821-5000-05, <b>61</b>		865-0006, <b>9</b>	
515-0298-01, <b>47</b>		800-0032, <b>7</b>		821-5002-04, <b>7</b>		865-0020, <b>9</b>	
515-0298-02, <b>47</b>		800-0048, <b>41</b>		821-5003-01, <b>38</b>		865-0030, <b>34</b>	
517-0021, <b>49</b>		800-0069, <b>7, 11, 13</b>		821-5004-02, <b>13</b>		867-0031, <b>20</b>	
517-0131, <b>33, 55</b>		800-0072, <b>7</b>		821-5004-03, <b>20</b>		870-0131, <b>7, 20, 55, 61</b>	
517-0135, <b>38, 47</b>		800-0315, <b>21, 22, 23</b>		821-6001-01, <b>47, 48, 52</b>		870-0183, <b>55, 57, 67</b>	
517-0138-07, <b>33</b>		800-0602, <b>20</b>		821-6001-02, <b>47, 61</b>		870-0212, <b>20</b>	
517-0289, <b>9</b>		800-0607, <b>35</b>		821-6002-03, <b>13, 14, 16, 17, 30, 31, 33, 36, 38, 39, 57</b>		870-0221, <b>71</b>	
517-0322, <b>33</b>		800-0608-01, <b>35</b>		821-6003-02, <b>13, 14, 16, 17, 23, 24, 25, 31, 33, 34, 39, 41</b>		870-0250, <b>52</b>	
518-0122, <b>47</b>		800-0608-02, <b>11, 13, 35</b>		821-6003-03, <b>41</b>		870-0257, <b>58, 71</b>	
518-0548-20, <b>11, 13</b>		800-2038, <b>11, 13, 20</b>		822-3047, <b>49</b>		870-0281, <b>11, 13</b>	
518-0601, <b>5</b>		800-2042, <b>47</b>		822-3075, <b>49</b>		870-0439, <b>57, 63</b>	
518-0682-01, <b>13, 14, 16, 17</b>		800-2046, <b>47</b>				870-0504, <b>17, 31, 33</b>	
520-0311, <b>20</b>		800-2059, <b>7</b>				870-0517-01, <b>66</b>	
520-1011, <b>9</b>		800-2088, <b>7, 47, 52</b>					
520-1012, <b>20</b>		800-2101, <b>7</b>					

## 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>
870-0517-02, <b>66</b>		870-2064-01, <b>47, 49</b>		895-0382, <b>31</b>		898-0860, <b>58</b>	
870-1220, <b>55, 57, 63</b>		870-2161, <b>7</b>		895-0384, <b>33</b>		898-1195-01, <b>58</b>	
870-1221, <b>62</b>		870-2204, <b>61</b>		895-0385, <b>33</b>			
870-2054, <b>11, 13, 20</b>		871-0015, <b>55</b>		895-0386, <b>33</b>			
870-2056, <b>7</b>		895-0363, <b>31, 33</b>		898-0025, <b>66</b>			



Onan Corporation  
1400 73rd Avenue N.E.  
Minneapolis, MN 55432  
612-574-5000  
Telex: 275477  
Fax: 612-574-8087

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