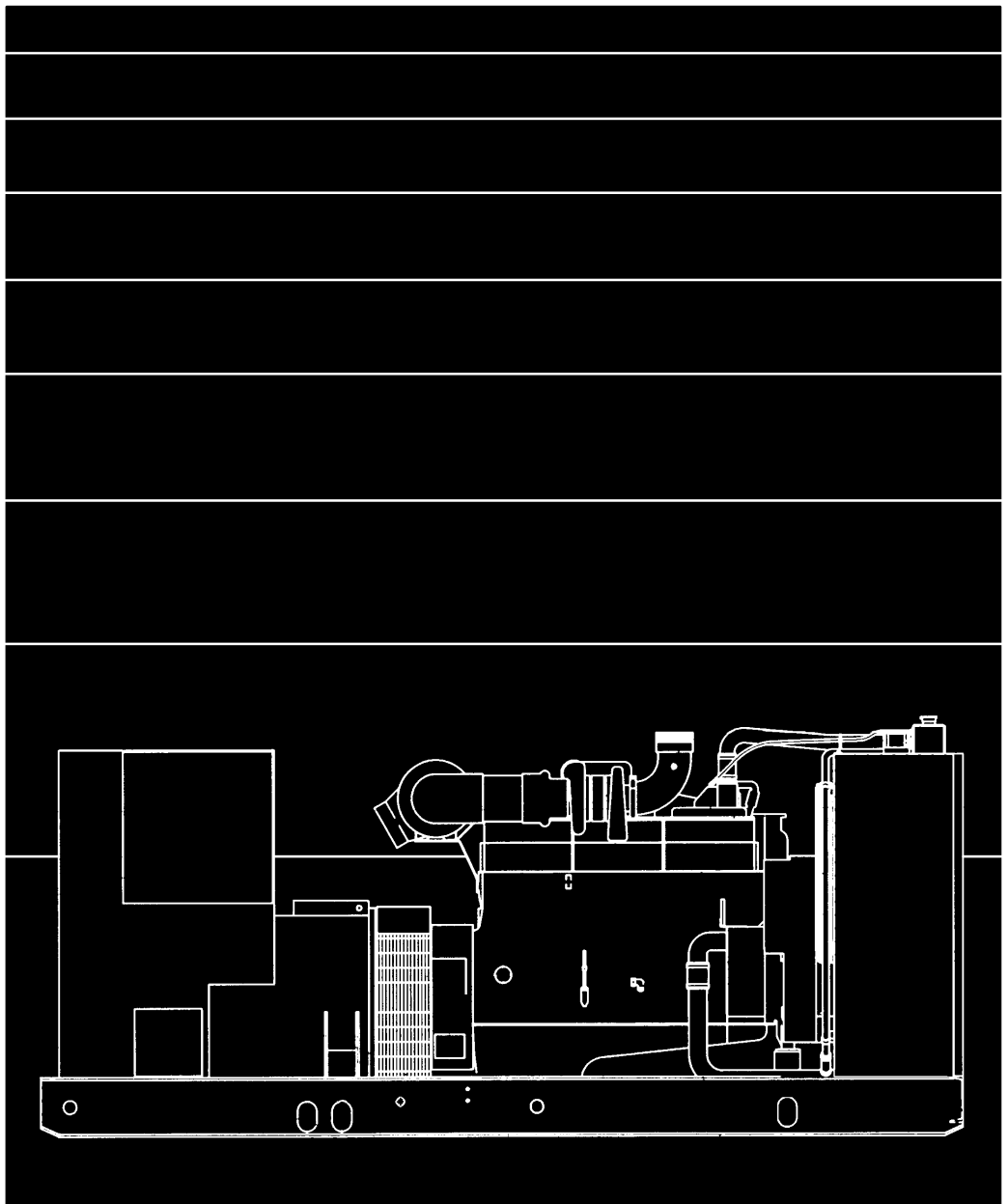


Parts Catalog

DFBF
DFCB
DFCC
DFCE
Generator Set



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 catalog applies to Onan Generator Models DFBF, DFCB, DFCC and DFCE 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 to the same reference number in the parts list. Parts illustrations are typical. Unless otherwise mentioned in the description or page heading, parts are interchangeable between models. Throughout this catalog left and right sides are determined by facing the engine end (front) of the set 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 manufacturer's nameplate and supplying all available information. Contact your nearest engine parts distributor for assistance in ordering replacement parts.

Replacement Engine

Onan/Cummins Generator Model	Cummins Engine Model
DFBF	NT 855–G6 Configuration No. D092555DX02
DFCB	NTA 855–G2 Configuration No. D093517DX02
DFCC 50 Hertz DFCC 60 Hertz	NTA 855–G4 Configuration No. D093613DX02 NTA 855–G3 Configuration No. D093580DX02
DFCE 50 Hertz DFCE 60 Hertz	NTA 855–G6 Configuration No. D093629DX02 NTA 855–G5 Configuration No. D093629DX02

Replacement engines cannot be ordered from Onan. Order from your nearest Cummins distributor.

Generator Set Data Table

Model and Specification	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
250DFBF/*+	250,000	#	50	12	3	24VDC
275DFBF/*+	275,000	#	60	12	3	24VDC
275DFCB/*+	275,000	#	50	12	3	24VDC
300DFCB/*+	300,000	#	60	12	3	24VDC
310DFCC/*+	310,000	#	50	12	3	24VDC
350DFCC/*+	350,000	#	60	12	3	24VDC
330DFCE/*	330,000	#	50	12	3	24VDC
400DFCE/*	400,000	#	60	12	3	24VDC

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

+ – Note: Specification letter “G” was not used with these models

– Broad range reconnectible

Index

- Adapter, Generator, **93**
- Aid, Starting, **22**
- Alarm, Audible – Module – Sets With PowerCommand Control – DFBF, DFCB, DFCC Begin Spec K, DFCE, **123**
- Alarm, Audible – Sets With Detector Control, **122**
- Alarm, Bell – Circuit Breaker – Non–UL Listed – DFBF, DFCB, DFCC Spec H, **155**
- Alarm, Bell – Circuit Breaker – Non–UL Listed – DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A, **159**
- Alternator – 45 Amp, **64**
- Alternator – 75 Amp – DFBF, DFCB, DFCC Spec H Through N, DFCE Spec A, **65**
- Ammeter – Sets With Detector Control, **101**
- Ball, Float – Day Tank – Without Pump and Control, **27**
- Band, Mounting – Air Cleaner – Heavy Duty – DFBF, DFCB, DFCC Begin Spec N, **19**
- Band, Mounting – Air Cleaner – Heavy Duty – DFBF, DFCB, DFCC Spec H Through M, **18**
- Band, Mounting – Air Cleaner – Standard – DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B, **17**
- Band, Mounting – Air Cleaner – Standard – DFBF, DFCB, DFCC Spec H Through M, DFCE Spec A, **16**
- Bar, Neutral – Circuit Breaker – Non–UL Listed – DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A, **157**
- Bar, Neutral – Circuit Breaker – UL Listed – DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A, **145**
- Bar, Neutral – Circuit Breaker and Disconnect Switch – UL Listed, IEC Conformity – DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B, **151**
- Bar, Neutral – Disconnect Switch – Molded Case – UL Listed – DFBF, DFCB, DFCC Spec L and M, DFCE Spec A, **149**
- Basin, Rupture – DFBF, DFCB, DFCC Begin Spec P, DFCE, **25**
- Basin, Rupture – DFBF, DFCB, DFCC Spec H Through N, **24**
- Bearing, Ball – Generator, **93**
- Bell, End – Generator, **93**
- Belt, Alternator – 45 Amp, **64**
- Belt, Alternator – 75 Amp – DFBF, DFCB, DFCC Spec H Through N, DFCE Spec A, **65**
- Block, Auxiliary Terminal – Sets With Detector Control, **137**
- Block, Terminal – Control Box – Sets With Detector Control, **99**
- Block, Terminal – Engine to Control Wiring Harness – Sets With Detector Control, **106**
- Block, Terminal – Engine to Control Wiring Harness – Sets With PowerCommand Control – Begin Spec K, **105**
- Block, Terminal – Paralleling Interconnect, **138**
- Board, Printed Circuit – Alarm Relay, **112**
- Board, Printed Circuit – Common Alarm – Sets With Detector Control – DFBF, DFCB, DFCC Begin Spec J, DFCE, **113**
- Board, Printed Circuit – Electronic Overspeed, **121**
- Board, Printed Circuit – Engine Monitor – Sets With Detector Control, **99**
- Board, Printed Circuit – Fuel Tank Control, **32**
- Board, Printed Circuit – Isolation Transformer – Sets With Detector Control, **111**
- Board, Printed Circuit – Over/Under Voltage Relay – DFBF, DFCB, DFCC Begin Spec L, DFCE, **116**
- Board, Printed Circuit – Time Delay Start/Stop, **117**
- Board, Printed Circuit – Voltage Regulator – Sets With Detector Control, **111**
- Box, Bus – DFBF, DFCB, DFCC Spec L and M, DFCE Spec A, **77**
- Box, Circuit Breaker – Non–UL Listed – DFBF, DFCB, DFCC Spec H, **155**
- Box, Circuit Breaker – Non–UL Listed – DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A, **157**
- Box, Circuit Breaker – UL Listed – DFBF, DFCB, DFCC Spec H, **143**
- Box, Circuit Breaker – UL Listed – DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A, **145**
- Box, Circuit Breaker and Disconnect Switch – UL Listed, IEC Conformity – DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B, **151**
- Box, Control – Sets With Detector Control, **99**
- Box, Disconnect Switch – Molded Case – UL Listed – DFBF, DFCB, DFCC Spec L and M, DFCE Spec A, **149**
- Box, Entrance – DFBF, DFCB, DFCC Begin Spec J, DFCE, **75**
- Box, Entrance – DFBF, DFCB, DFCC Spec H, **73**
- Box, Junction – Engine Coolant Heater – DFBF, DFCB, DFCC Spec H Through L, **40**
- Bracket, Engine Support – DFBF, DFCB, DFCC Begin Spec P, DFCE, **69**
- Bracket, Retainer – Battery – DFBF, DFCB, DFCC Begin Spec P, DFCE, **69**
- Bracket, Retainer – Battery – DFBF, DFCB, DFCC Spec H Through N, **67**
- Breaker, Circuit – AC Control Door, **127**
- Breaker, Circuit – Fuel Tank Control, **32**
- Breaker, Circuit – Non–UL Listed – DFBF, DFCB, DFCC Spec H, **155**
- Breaker, Circuit – Non–UL Listed – DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A, **157**
- Breaker, Circuit – UL Listed – DFBF, DFCB, DFCC Spec H, **143**
- Breaker, Circuit – UL Listed – DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A, **145**
- Breaker, Circuit – UL Listed, IEC Conformity – DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B, **151**
- Bridge, Rectifier – 75 Amp Alternator – Control Mounted – Sets With Detector Control – DFBF, DFCB, DFCC Spec H Through N, DFCE Spec A, **65**
- Bulb, Panel Light – Replacement – DC Control Door – Sets With Detector Control, **103**
- Bus, Load Connection – Bus Box – DFBF, DFCB, DFCC Spec L and M, DFCE Spec A, **77**
- Cable, Battery – Jumper, **62**
- Cable, Battery – Starter To Ground, **62**
- Cable, Ground – Day Tank – With Control, **29**
- Cable, Ground – Day Tank – With Pump and Control, **31**
- Cable, Ground – Day Tank – Without Pump and Control, **27**
- Cable, Heater – Control – Sets With Detector Control – DFBF, DFCB, DFCC Begin Spec K, DFCE, **108**

Index

- Cable, Magnetic Pickup – Generator Sets With Detector Control, **106**
- Cable, Magnetic Pickup – Sets With PowerCommand Control – Begin Spec K, **105**
- Cable, Shielded – Speed Adjusting Potentiometer, **130**
- Cap, Fuel – Day Tank – With Control, **29**
- Cap, Fuel – Day Tank – With Pump and Control, **31**
- Cap, Fuel – Day Tank – Without Pump and Control, **27**
- Cap, Radiator – DFBF, DFCB, DFCC Begin Spec K, **57**
- Cap, Radiator – DFBF, DFCB, DFCC Spec H and J, **55**
- Cap, Radiator – DFCE, **59**
- Cap, Rain – Muffler – DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B, **36**
- Cap, Rain – Muffler – DFBF, DFCB, DFCC Spec H Through M, DFCE Spec A, **35**
- Capacitor – Voltmeter – Sets With Detector Control, **101**
- Cartridge, Heater – Generator, **91**
- Cleaner, Air – Heavy Duty – DFBF, DFCB, DFCC Begin Spec N, **19**
- Cleaner, Air – Heavy Duty – DFBF, DFCB, DFCC Spec H Through M, **18**
- Cleaner, Air – Standard – DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B, **17**
- Cleaner, Air – Standard – DFBF, DFCB, DFCC Spec H Through M, DFCE Spec A, **16**
- Clip, Retainer – Fuel Check Valve – DFBF, DFCB, DFCC Spec H, **21**
- Cock, Drain – Radiator – DFBF, DFCB, DFCC Begin Spec K, **57**
- Cock, Drain – Radiator – DFBF, DFCB, DFCC Spec H and J, **55**
- Cock, Drain – Radiator – DFCE, **59**
- Cock, Drain – Remote Radiator – DFBF, DFCB, DFCC Spec H, **51**
- Conduit, Flexible – Coolant Heater – 4000 Watts – DFBF, DFCB, DFCC Spec H Through L, **43**
- Contact, Auxiliary – Circuit Breaker – Non-UL Listed – DFBF, DFCB, DFCC Spec H, **155**
- Contact, Auxiliary – Circuit Breaker – Non-UL Listed – DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A, **159**
- Control, Coolant Heater – DFBF, DFCB, DFCC Begin Spec M, DFCE With Radiator or Remote Radiator Cooling, **47**
- Control, Detector, **99**
- Control, Fuel Tank – Component Parts, **32**
- Control, Governor – Electronic, **60**
- Control, PowerCommand – DFBF, DFCB, DFCC Begin Spec K, DFCE, **100**
- Controller, VAR Power Factor, **126**
- Coupler, Pump – Day Tank – With Pump and Control, **31**
- Cover, Box – Circuit Breaker – Non-UL Listed – DFBF, DFCB, DFCC Spec H, **155**
- Cover, Box – Circuit Breaker – Non-UL Listed – DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A, **157**
- Cover, Box – Circuit Breaker – UL Listed – DFBF, DFCB, DFCC Spec H, **143**
- Cover, Box – Circuit Breaker – UL Listed – DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A, **145**
- Cover, Bus Box – DFBF, DFCB, DFCC Spec L and M, DFCE Spec A, **77**
- Cover, Circuit Breaker and Disconnect Switch – UL Listed, IEC Conformity – DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B, **151**
- Cover, Disconnect Switch – Molded Case – UL Listed – DFBF, DFCB, DFCC Spec L and M, DFCE Spec A, **149**
- Dampener, Vibration – Belt Guard – Radiator – DFBF, DFCB, DFCC Begin Spec K, **57**
- Dampener, Vibration – Belt Guard – Radiator – DFCE, **59**
- Damper, Skid – Sets With Narrow (44" Wide) Skid – Sets Operating At 50 Hertz – DFBF, DFCB, DFCC Spec K, **66**
- Disc, Drive – Generator, **95**
- Door, Control – AC – Sets With Detector Control, **101**
- Door, Control – DC – Sets With Detector Control, **103**
- Door, Housing, **71**
- Elbow, Exhaust – With Onan Muffler – DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B, **36**
- Elbow, Exhaust – With Onan Muffler – DFBF, DFCB, DFCC Spec H Through M, DFCE Spec A, **35**
- Elbow, Exhaust – Without Onan Muffler, **34**
- Element – Coolant Heater – 2500 Watts – DFBF, DFCB, DFCC Spec H Through L, **41**
- Element, Air Cleaner – Heavy Duty – DFBF, DFCB, DFCC Begin Spec N, **19**
- Element, Air Cleaner – Heavy Duty – DFBF, DFCB, DFCC Spec H Through M, **18**
- Element, Air Cleaner – Standard – DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B, **17**
- Element, Air Cleaner – Standard – DFBF, DFCB, DFCC Spec H Through M, DFCE Spec A, **16**
- Exchanger, Heat – DFBF, DFCB, DFCC, **49**
- External Engine Parts – Sets With Detector Control – DFBF, DFCB, DFCC Begin Spec M, DFCE, **13**
- External Engine Parts – Sets With Detector Control – DFBF, DFCB, DFCC Spec H Through L, **11**
- External Engine Parts – Sets With PowerCommand Control – DFBF, DFCB, DFCC Begin Spec K, DFCE, **15**
- Fan, Alternator – 45 Amp, **64**
- Fan, Radiator – DFBF, DFCB, DFCC Begin Spec K, **57**
- Fan, Radiator – DFBF, DFCB, DFCC Spec H and J, **55**
- Fan, Radiator – DFCE, **59**
- Fuse – Engine To Control Wiring Harness – Sets With PowerCommand Control – Begin Spec K, **105**
- Fuse – Printed Circuit Board – Engine Monitor – Sets With Detector Control, **99**
- Fuse – Radio Frequency Interference Module – DFBF, DFCB, DFCC Sets With Model HC4 or HC5 Generator – DFCE Sets With Model HC5 Generator, **135**
- Gasket, Connection – Remote Radiator – DFBF, DFCB, DFCC Begin Spec J, **53**
- Gasket, Connection – Remote Radiator – DFBF, DFCB, DFCC Spec H, **51**
- Gauge, Fuel Pressure, **20**
- Gauge, Liquid Level – Day Tank – With Control, **29**
- Gauge, Liquid Level – Day Tank – With Pump and Control, **31**

Index

- Gauge, Oil Pressure – Control Mounted – Sets With Detector Control, **103**
- Gauge, Oil Temperature, **132**
- Gauge, Sight – Heat Exchanger – DFBF, DFCB, DFCC, **49**
- Gauge, Water Temperature – Sets With Detector Control, **103**
- Generator (Assembly), **93**
- Generator (Complete Replacement Part Numbers), **96**
- Generator, Permanent Magnet, **97**
- Governor, Electronic, **60**
- Governor, Woodward, **61**
- Grille, Radiator – DFBF, DFCB, DFCC Begin Spec K, **57**
- Grille, Radiator – DFBF, DFCB, DFCC Spec H and J, **55**
- Grille, Radiator – DFCE, **59**
- Guard, Belt – Heat Exchanger – DFBF, DFCB, DFCC, **49**
- Guard, Belt – Radiator – DFBF, DFCB, DFCC Begin Spec K, **57**
- Guard, Belt – Radiator – DFBF, DFCB, DFCC Spec H and J, **55**
- Guard, Belt – Radiator – DFCE, **59**
- Guard, Belt – Remote Radiator – DFBF, DFCB, DFCC Begin Spec J, **53**
- Guard, Belt – Remote Radiator – DFBF, DFCB, DFCC Spec H, **51**
- Guard, Fan – Radiator – DFBF, DFCB, DFCC – Begin Spec K, **57**
- Guard, Fan – Radiator – DFBF, DFCB, DFCC Spec H and J, **55**
- Guard, Fan – Radiator – DFCE, **59**
- Guard, Radiator – DFBF, DFCB, DFCC Begin Spec K, **57**
- Guard, Radiator – DFBF, DFCB, DFCC Spec H and J, **55**
- Guard, Radiator – DFCE, **59**
- Handle, Door – Housing, **71**
- Harness, Wiring – AC Control Door – Sets With Detector Control, **99**
- Harness, Wiring – Adapter – Woodward Governor to Engine Harness, **61**
- Harness, Wiring – Alarm Relay Board, **112**
- Harness, Wiring – Auxiliary Terminal Block – Sets With Detector Control, **137**
- Harness, Wiring – Auxiliary Terminal Block Transformer – Sets With Detector Control – DFBF, DFCB, DFCC Begin Spec M, DFCE, **137**
- Harness, Wiring – Common Alarm Board – Sets With Detector Control – DFBF, DFCB, DFCC Begin Spec J, DFCE, **113**
- Harness, Wiring – Control Heater – Sets With Detector Control – DFBF, DFCB, DFCC Spec H and J, **107**
- Harness, Wiring – Coolant Heater – 2500 Watts – DFBF, DFCB, DFCC Spec H Through L, **41**
- Harness, Wiring – Coolant Heater Control – DFBF, DFCB, DFCC Begin Spec M, DFCE With Radiator or Remote Radiator Cooling, **47**
- Harness, Wiring – Current Transformer, **141**
- Harness, Wiring – Day Tank – With Control, **29**
- Harness, Wiring – Day Tank – With Pump and Control, **31**
- Harness, Wiring – DC Control Door – Sets With Detector Control, **99**
- Harness, Wiring – Electronic Overspeed, **121**
- Harness, Wiring – Engine to Control – Sets With Detector Control, **106**
- Harness, Wiring – Engine To Control – Sets With PowerCommand Control – Begin Spec K, **105**
- Harness, Wiring – Excitation Loss Module, **134**
- Harness, Wiring – Fuel Tank Control, **32**
- Harness, Wiring – Generator, **95**
- Harness, Wiring – Ground Fault Relay – DFBF, DFCB, DFCC Begin Spec L, DFCE, **114**
- Harness, Wiring – Junction Box – Engine Coolant Heater – DFBF, DFCB, DFCC Spec H Through L, **40**
- Harness, Wiring – Low Battery Voltage Sensor – DFBF, DFCB, DFCC Begin Spec J, DFCE, **120**
- Harness, Wiring – Low Coolant Level Sender – Sets With Heat Exchanger Cooling – DFBF, DFCB, DFCC, **39**
- Harness, Wiring – Low Coolant Level Sender – With Continuously Monitored Low Coolant Level – 12 Light Indicator Controls – Sets With Radiator Cooling – DFBF, DFCB, DFCC Begin Spec J, DFCE, **38**
- Harness, Wiring – Over/Under Frequency Relay, **119**
- Harness, Wiring – Over/Under Voltage Relay – DFBF, DFCB, DFCC Spec H Through K, **115**
- Harness, Wiring – Paralleling Interconnect Terminal Block, **138**
- Harness, Wiring – Permanent Magnet Generator, **97**
- Harness, Wiring – Pigtail – Low Coolant Level Sender – Sets Without Continuously Monitored Low Coolant Level – Sets With Radiator Cooling, **37**
- Harness, Wiring – Power Factor Meter, **125**
- Harness, Wiring – Time Delay Start/Stop, **117**
- Harness, Wiring – Wattmeter, **124**
- Heater, Control – Sets With Detector Control – DFBF, DFCB, DFCC Begin Spec K, DFCE, **108**
- Heater, Control – Sets With Detector Control – DFBF, DFCB, DFCC Spec H and J, **107**
- Heater, Control – Sets With PowerCommand Control – DFBF, DFCB, DFCC Begin Spec K, DFCE, **109**
- Heater, Coolant – 2500 Watts – DFBF, DFCB, DFCC Spec H Through L, **41**
- Heater, Coolant – 4000 Watts – DFBF, DFCB, DFCC Spec H Through L, **43**
- Heater, Coolant – DFBF, DFCB, DFCC Begin Spec M, DFCE With Radiator or Remote Radiator Cooling, **45**
- Heater, Generator, **91**
- Heater, Oil Pan, **33**
- Hood, Air Cleaner – Heavy Duty – DFBF, DFCB, DFCC Begin Spec N, **19**
- Hood, Air Cleaner – Heavy Duty – DFBF, DFCB, DFCC Spec H Through M, **18**
- Hose, Coolant Heater – 2500 Watts – DFBF, DFCB, DFCC Spec H Through L, **41**
- Hose, Coolant Heater – 4000 Watts – DFBF, DFCB, DFCC Spec H Through L, **43**
- Hose, Fuel Pump – Woodward Governor, **61**
- Hose, Oil Drain – Sets With Detector Control – DFBF, DFCB, DFCC Begin Spec M, DFCE, **13**
- Hose, Oil Drain – Sets With Detector Control – DFBF, DFCB, DFCC Spec H and L, **11**

Index

- Hose, Oil Drain – Sets With PowerCommand Control – DFBF, DFCB, DFCC Begin Spec K, DFCE, **15**
- Hose, Radiator – DFBF, DFCB, DFCC Begin Spec K, **57**
- Hose, Radiator – DFCE, **59**
- Housing – Generator Set, **71**
- Housing, Control – Model HC4 Generators – DFBF, DFCB, DFCC, **79**
- Housing, Control – Model HC5 Generators – DFBF, DFCB, DFCC, **83**
- Housing, Control – Model HC5 Generators – DFCE, **87**
- Indicator, Service – Air Cleaner – Heavy Duty – DFBF, DFCB, DFCC Begin Spec N, **19**
- Indicator, Service – Air Cleaner – Heavy Duty – DFBF, DFCB, DFCC Spec H Through M, **18**
- Indicator, Service – Air Cleaner – Standard – DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B, **17**
- Indicator, Service – Air Cleaner – Standard – DFBF, DFCB, DFCC Spec H Through M, DFCE Spec A, **16**
- Isolator, Vibration – Control Box – Sets With Detector Control, **99**
- Isolator, Vibration – Day Tank – With Control, **29**
- Isolator, Vibration – Day Tank – With Pump and Control, **31**
- Isolator, Vibration – Day Tank – Without Pump and Control, **27**
- Isolator, Vibration – Engine End – DFBF, DFCB, DFCC Begin Spec P, DFCE, **69**
- Isolator, Vibration – Generator End – DFBF, DFCB, DFCC Begin Spec P, DFCE, **69**
- Key, Door Handle – Housing, **71**
- Kit, Diode – Generator, **93**
- Kit, Gauge – Safety Sight – Radiator – DFBF, DFCB, DFCC Begin Spec K, **57**
- Kit, Gauge – Safety Sight – Radiator – DFCE, **59**
- Kit, Lead – VAR Power Factor Controller, **126**
- Kit, Repair – Fuel Transfer Pump – Day Tank – With Pump and Control, **31**
- Lamp, Indicator – Fuel Tank Control, **32**
- Lead, Bus Box – DFBF, DFCB, DFCC Spec L and M, DFCE Spec A, **77**
- Lead, Thermocouple – Pyrometer – Sets With Detector Control, **128**
- Lens, Indicator – Ground Fault Relay – DFBF, DFCB, DFCC Begin Spec L, DFCE, **114**
- Lens, Indicator – Low Battery Voltage – DFBF, DFCB, DFCC Begin Spec J, DFCE, **120**
- Lens, Indicator – Over/Under Frequency, **119**
- Lens, Indicator – Over/Under Voltage – DFBF, DFCB, DFCC Begin Spec L, DFCE, **116**
- Lens, Indicator Light – Low Coolant Level Sender – With Continuously Monitored Low Coolant Level – 12 Light Indicator Controls – Sets With Radiator Cooling – DFBF, DFCB, DFCC Begin Spec J, DFCE, **38**
- Light Assembly, Indicator – 7 Light – Fuel Tank Control, **32**
- Light Assembly, Indicator – DC Control Door – Sets With Detector Control, **103**
- Light, Indicator – Over/Under Voltage – DFBF, DFCB, DFCC Spec H Through K, **115**
- Light, Indicator – Replacement – DC Control Door – Sets With Detector Control, **103**
- Light, Indicator – Upper/Lower Scale – Sets With Detector Control, **101**
- Light, Panel – DC Control Door – Sets With Detector Control, **103**
- Line, Flexible – Remote Radiator – DFBF, DFCB, DFCC Begin Spec J, **53**
- Line, Fuel – Flexible – Day Tank – With Control, **29**
- Line, Fuel – Flexible – Day Tank – With Pump and Control, **31**
- Line, Fuel – Flexible – Day Tank – Without Pump and Control, **27**
- Line, Fuel – Flexible – Fuel Supply and Fuel Return – Sets Without Day Tank – DFBF, DFCB, DFCC Begin Spec P, DFCE, **69**
- Line, Fuel – Flexible – Fuel Supply and Fuel Return – Sets Without Day Tank – DFBF, DFCB, DFCC Spec H Through N, **67**
- Lug, Solderless – Bus Box – DFBF, DFCB, DFCC Spec L and M, DFCE Spec A, **77**
- Lug, Solderless – Circuit Breaker – Non-UL Listed – DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A, **157**
- Lug, Solderless – Circuit Breaker – UL Listed – DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A, **145**
- Lug, Solderless – Circuit Breaker and Disconnect Switch – UL Listed, IEC Conformity – DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B, **151**
- Lug, Solderless – Disconnect Switch – Molded Case – UL Listed – DFBF, DFCB, DFCC Spec L and M, DFCE Spec A, **149**
- Lug, Solderless – Grounding – Skid – DFBF, DFCB, DFCC Begin Spec P, DFCE, **69**
- Lug, Solderless – Grounding – Skid – DFBF, DFCB, DFCC Spec H Through N, **67**
- Meter, Frequency – Sets With Detector Control, **101**
- Meter, Power Factor, **125**
- Meter, Time Totalizing – Sets With Detector Control, **103**
- Module, Excitation Loss, **134**
- Module, Radio Frequency Interference – DFBF, DFCB, DFCC Sets With Model HC4 or HC5 Generator – DFCE Sets With Model HC5 Generator, **135**
- Motor, Fuel Transfer Pump – Day Tank – With Pump and Control, **31**
- Muffler, Exhaust – DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B, **36**
- Muffler, Exhaust – DFBF, DFCB, DFCC Spec H Through M, DFCE Spec A, **35**
- Outlet Assembly – Coolant Heater – 2500 Watts – DFBF, DFCB, DFCC Spec H Through L, **41**
- Paint, **8**
- Panel, Housing, **71**
- Pickup, Magnetic – Electronic Governor, **60**
- Pickup, Magnetic – Sets With PowerCommand Control – DFBF, DFCB, DFCC Begin Spec K, DFCE, **15**
- Pickup, Magnetic – Woodward Governor, **61**

Index

- Pipe, Suction – Day Tank – With Control, **29**
- Pipe, Suction – Day Tank – With Pump and Control, **31**
- Pipe, Suction – Day Tank – Without Pump and Control, **27**
- Plug – Fuel Pump EFC Cavity – Woodward Governor, **61**
- Potentiometer – AC Control Door – Sets With Detector Control, **111**
- Potentiometer, Speed Adjusting – Governor Controller, **130**
- Pulley, Alternator – 45 Amp, **64**
- Pulley, Alternator – 75 Amp – DFBF, DFCB, DFCC Spec H Through N, DFCE Spec A, **65**
- Pump, Fuel Transfer – Day Tank – With Pump and Control, **31**
- Pyrometer – Sets With Detector Control, **128**
- Pyrometer – Sets With PowerCommand Control – DFBF, DFCB, DFCC Begin Spec K, DFCE, **129**
- Radiator – DFBF, DFCB, DFCC Begin Spec K, **57**
- Radiator – DFBF, DFCB, DFCC Spec H and J, **55**
- Radiator – DFCE, **59**
- Radiator, Remote – DFBF, DFCB, DFCC Begin Spec J, **53**
- Radiator, Remote – DFBF, DFCB, DFCC Spec H, **51**
- Regulator, Voltage – Alternator – 45 Amp, **64**
- Regulator, Voltage – Manual, **110**
- Regulator, Voltage – Sets With Detector Control, **111**
- Relay Assembly – Coolant Heater – 4000 Watts – DFBF, DFCB, DFCC Spec H Through L, **43**
- Relay, Alarm, **112**
- Relay, Frequency – Over/Under, **119**
- Relay, Ground Fault – DFBF, DFCB, DFCC Begin Spec L, DFCE, **114**
- Relay, Power – Coolant Heater – 4000 Watts – DFBF, DFCB, DFCC Spec H Through L, **43**
- Relay, Power – Coolant Heater Control – DFBF, DFCB, DFCC Begin Spec M, DFCE With Radiator or Remote Radiator Cooling, **47**
- Relay, Pump – Fuel Tank Control, **32**
- Relay, Start Solenoid – Sets With Detector Control – DFBF, DFCB, DFCC Begin Spec M, DFCE, **13**
- Relay, Start Solenoid – Sets With Detector Control – DFBF, DFCB, DFCC Spec H Through L, **11**
- Relay, Start Solenoid – Sets With PowerCommand Control – DFBF, DFCB, DFCC Begin Spec K, DFCE, **15**
- Relay, Time Delay – Over/Under Voltage – DFBF, DFCB, DFCC Spec H Through K, **115**
- Relay, Voltage – Over/Under – DFBF, DFCB, DFCC Spec H Through K, **115**
- Roof, Housing, **71**
- Rotor, Exciter – Generator, **93**
- Rotor, Exciter – Permanent Magnet Generator, **97**
- Rotor, Generator, **96**
- Seal, O-Ring – EFC Cavity Plug – Woodward Governor, **61**
- Sealant, Thread, **8**
- Sender Assembly – Low Coolant Level – Sets With Continuously Monitored Low Coolant Level – 12 Light Indicator Controls – Sets With Radiator Cooling – DFBF, DFCB, DFCC Begin Spec J, DFCE, **38**
- Sender Assembly – Low Coolant Level – Sets With Heat Exchanger Cooling – DFBF, DFCB, DFCC, **39**
- Sender Assembly – Low Coolant Level – Sets Without Continuously Monitored Low Coolant Level – Sets With Radiator Cooling, **37**
- Sender, Oil Pressure – Sets With Detector Control – DFBF, DFCB, DFCC Begin Spec M, DFCE, **13**
- Sender, Oil Pressure – Sets With Detector Control – DFBF, DFCB, DFCC Spec H Through L, **11**
- Sender, Oil Pressure – Sets With PowerCommand Control – DFBF, DFCB, DFCC Begin Spec K, DFCE, **15**
- Sender, Oil Temperature – Sets With PowerCommand Control – DFBF, DFCB, DFCC Begin Spec K, DFCE, **15**
- Sender, Oil Temperature Gauge, **132**
- Sender, Water Temperature – Sets With Detector Control – DFBF, DFCB, DFCC Begin Spec M, DFCE, **13**
- Sender, Water Temperature – Sets With Detector Control – DFBF, DFCB, DFCC Spec H Through L, **11**
- Sensor – Low Battery Voltage – DFBF, DFCB, DFCC Begin Spec J, DFCE, **120**
- Separator, Fuel/Water, **9**
- Shroud, Fan – Radiator – DFBF, DFCB, DFCC Begin Spec K, **57**
- Shroud, Fan – Radiator – DFBF, DFCB, DFCC Spec H and J, **55**
- Shroud, Fan – Radiator – DFCE, **59**
- Skid – DFBF, DFCB, DFCC Begin Spec P, DFCE, **69**
- Skid – DFBF, DFCB, DFCC Spec H Through N, **67**
- Spacer, Fan – Radiator – DFBF, DFCB, DFCC Begin Spec K, **57**
- Spacer, Fan – Radiator – DFBF, DFCB, DFCC Spec H and J, **55**
- Spacer, Fan – Radiator – DFCE, **59**
- Spacer, Generator Mounting, **95**
- Standoff, Insulator – Bus Box – DFBF, DFCB, DFCC Spec L and M, DFCE Spec A, **77**
- Standoff, Insulator – Circuit Breaker – Non-UL Listed – DFBF, DFCB, DFCC Spec H, **155**
- Standoff, Insulator – Circuit Breaker – Non-UL Listed – DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A, **157**
- Standoff, Insulator – Circuit Breaker and Disconnect Switch – UL Listed, IEC Conformity – DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B, **151**
- Standoff, Insulator – Disconnect Switch – Molded Case – UL Listed – DFBF, DFCB, DFCC Spec L and M, DFCE Spec A, **149**
- Standoff, Insulator – Neutral Bar – Circuit Breaker – UL Listed – DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A, **145**
- Starter – Air, **63**
- Starter – Electric, **62**
- Stator, Exciter – Generator, **93**
- Stator, Exciter – Permanent Magnet Generator, **97**
- Stator, Generator, **96**
- Strap, Ground – Control Box – Sets With Detector Control, **99**
- Strap, Ground – Control Housing – Model HC5 Generators – DFCE, **89**
- Strap, Ground – Skid – DFBF, DFCB, DFCC Begin Spec P, DFCE, **69**

Index

- Strap, Water Tube Outlet – Remote Radiator – DFBF, DFCB, DFCC Begin Spec J, **53**
- Switch – 5 Float – Day Tank – With Control, **29**
- Switch – 5 Float – Day Tank – With Pump and Control, **31**
- Switch, Disconnect – Molded Case – UL Listed – DFBF, DFCB, DFCC Spec L and M, DFCE Spec A , **149**
- Switch, Disconnect – UL Listed, IEC Conformity – DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B, **151**
- Switch, Float – Basin – DFBF, DFCB, DFCC Spec H Through N, **23**
- Switch, Oil Pressure – Sets With Detector Control – DFBF, DFCB, DFCC Begin Spec M, DFCE, **13**
- Switch, Oil Pressure – Sets With Detector Control – DFBF, DFCB, DFCC Spec H Through L, **11**
- Switch, Pushbutton – Emergency Stop – Sets With Detector Control, **133**
- Switch, Rocker – DC Control Door – Sets With Detector Control, **103**
- Switch, Rocker – Fuel Tank Control, **32**
- Switch, Rotary – Voltmeter/Ammeter – Sets With Detector Control, **101**
- Switch, Temperature – Low Engine Coolant – Sets With Detector Control – DFBF, DFCB, DFCC Begin Spec M, DFCE, **13**
- Switch, Temperature – Low Engine Coolant – Sets With Detector Control – DFBF, DFCB, DFCC Spec H Through L, **11**
- Switch, Temperature – Low Engine Coolant – Sets With PowerCommand Control – DFBF, DFCB, DFCC Begin Spec K, DFCE, **15**
- Switch, Thermostat – High Engine Coolant Temperature – Sets With Detector Control – DFBF, DFCB, DFCC Begin Spec M, DFCE, **13**
- Switch, Thermostat – High Engine Coolant Temperature – Sets With Detector Control – DFBF, DFCB, DFCC Spec H Through L, **11**
- Switch, Toggle – Cross Current Compensation Circuit, **139**
- Switch, Trip Alarm or Auxiliary Contact – Circuit Breaker – UL Listed, IEC Conformity – DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B, **153**
- Tachometer, **131**
- Tank, Day – With Control, **29**
- Tank, Day – With Pump and Control, **31**
- Tank, Day – Without Pump and Control, **27**
- Thermostat – Control Heater – Sets With Detector Control – DFBF, DFCB, DFCC Spec H and J, **107**
- Thermostat – Coolant Heater – 2500 Watts – DFBF, DFCB, DFCC Spec H Through L, **41**
- Thermostat – Coolant Heater – 4000 Watts – DFBF, DFCB, DFCC Spec H Through L, **43**
- Thermostat – Coolant Heater – DFBF, DFCB, DFCC Begin Spec M, DFCE With Radiator or Remote Radiator Cooling, **45**
- Transducer, Watts, **124**
- Transducer, Watts – Power Factor Meter, **125**
- Transformer – Auxiliary Terminal Block – Sets With Detector Control, **137**
- Transformer, Current, **141**
- Transformer, Current – Cross Current Compensation Circuit, **139**
- Transformer, Current – VAR Power Factor Controller, **126**
- Trip, Shunt – Circuit Breaker – UL Listed, IEC Conformity – DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B, **153**
- Trip, Shunt – Circuit Breaker – Non-UL Listed – DFBF, DFCB, DFCC Spec H, **155**
- Trip, Shunt – Circuit Breaker – Non-UL Listed – DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A, **159**
- Tube, Air Inlet – Air Cleaner – Heavy Duty – DFBF, DFCB, DFCC Begin Spec N, **19**
- Tube, Air Inlet – Air Cleaner – Heavy Duty – DFBF, DFCB, DFCC Spec H Through M, **18**
- Tube, Air Inlet – Air Cleaner – Standard – DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B, **17**
- Tube, Air Inlet – Air Cleaner – Standard – DFBF, DFCB, DFCC Spec H Through M, DFCE Spec A, **16**
- Tube, Coolant Heater – DFBF, DFCB, DFCC Begin Spec M, DFCE With Radiator or Remote Radiator Cooling, **45**
- Tube, Fuel Check Valve – DFBF, DFCB, DFCC Spec H, **21**
- Tube, Fuel Supply – Woodward Governor, **61**
- Tube, Outlet – Remote Radiator – DFBF, DFCB, DFCC Begin Spec J, **53**
- Tube, Radiator – DFBF, DFCB, DFCC Begin Spec K, **57**
- Tube, Radiator – DFBF, DFCB, DFCC Spec H and J, **55**
- Tube, Radiator – DFCE, **59**
- Tubing, Flexible – Muffler – DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B, **36**
- Tubing, Flexible – Muffler – DFBF, DFCB, DFCC Spec H Through M, DFCE Spec A, **35**
- Valve – Fuel Pressure Gauge, **20**
- Valve Assembly, Float – Day Tank – Without Pump and Control, **27**
- Valve, Fuel Check – DFBF, DFCB, DFCC Spec H, **21**
- Valve, Shutoff – Oil Drain – Sets With Detector Control – DFBF, DFCB, DFCC Begin Spec M, DFCE, **13**
- Valve, Shutoff – Oil Drain – Sets With Detector Control – DFBF, DFCB, DFCC Spec H Through L, **11**
- Valve, Shutoff – Oil Drain – Sets With PowerCommand Control – DFBF, DFCB, DFCC Begin Spec K, DFCE, **15**
- Voltmeter, AC – Sets With Detector Control, **101**
- Voltmeter, DC – Sets With Detector Control, **103**
- Wattmeter, **124**

Abbreviations

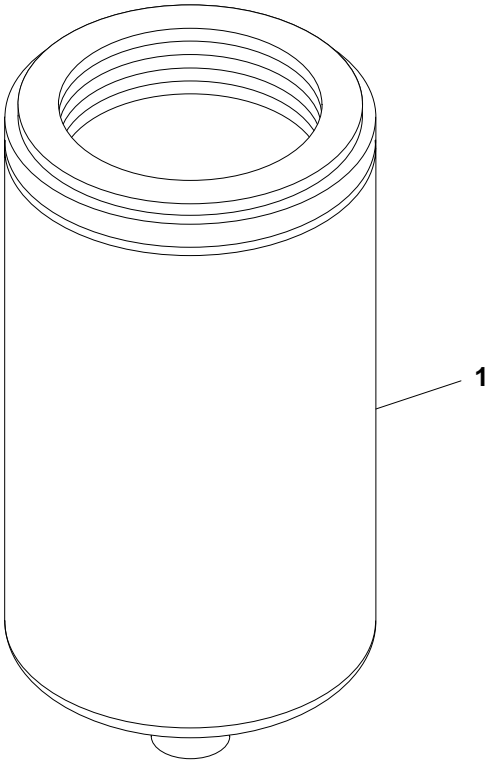
Some of the following abbreviations may be used throughout this Parts Catalog:

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
DC	Direct Current	oz.	Ounce
Deg	Degree	PC	Printed Circuit
EFC	Electronic Fuel Control	Ph	Phase
EIT	External/Internal Tooth	PMG	Permanent Magnet Generator
EPROM	Erasable Programmable Read Only Memory	PT/CT	Potential Transformer/Current Transformer
ET	External Tooth	RFI	Radio Frequency Interference
GFI	Ground Fault Interrupter	RT	Right
ID	Inside Diameter	Spec	Specification
IEC	International Electrotechnical Commission	Thk	Thick
IT	Internal Tooth	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)				Cummins Beige Enamel
	525-0305	—	12 oz. Pressurized Spray Can		525-0551-02	—	12 oz. Pressurized Spray Can
	525-0306	—	Quart Can		525-0551-03	—	Quart Can
	525-0304	—	Gallon Can		525-0551-04	—	Gallon Can
					518-0601	—	Sealant, Thread (6 ml Tube)

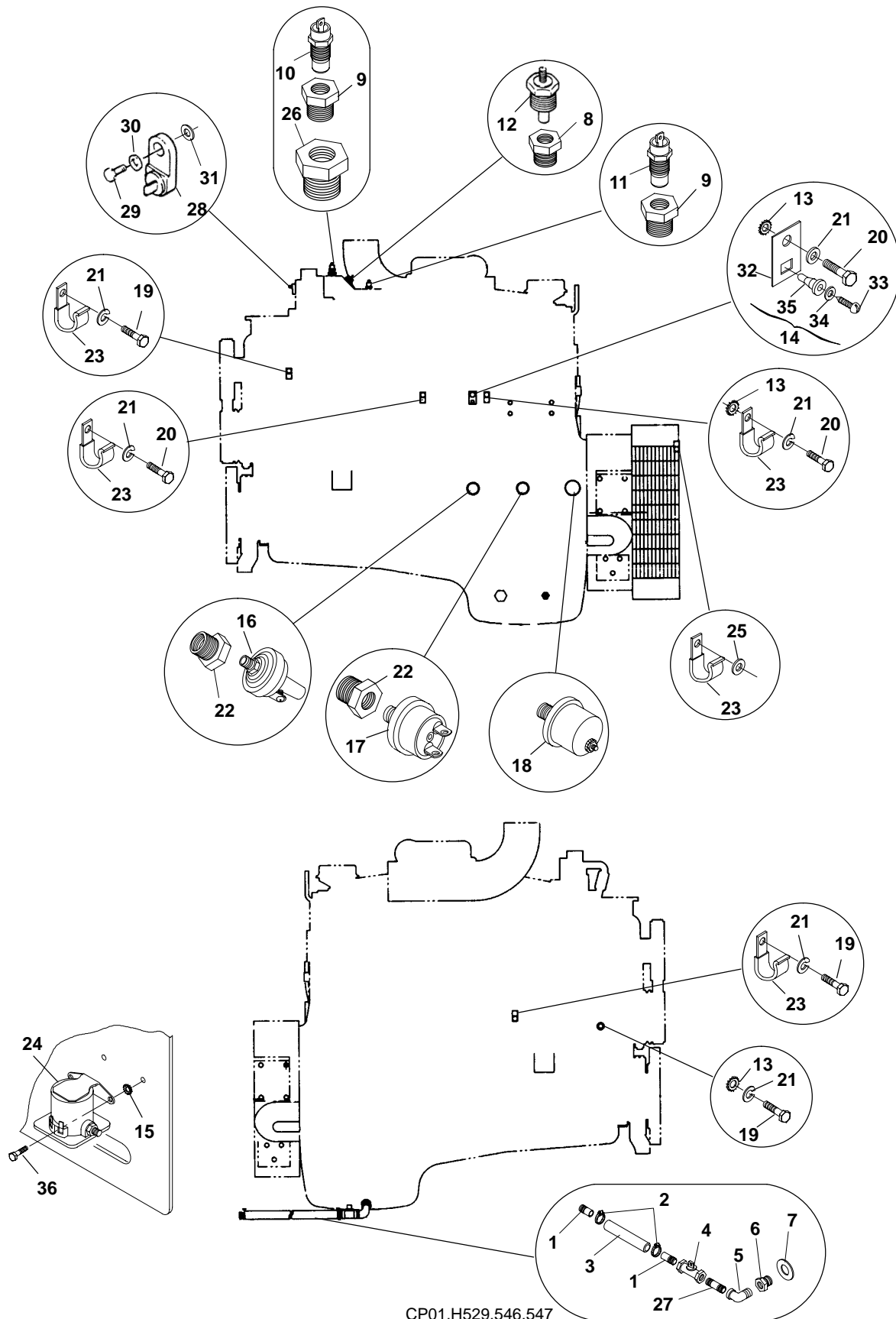
Fuel/Water Separator



C127

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-2278	2	Separator, Fuel/Water				

External Engine Parts **Generator Sets With Detector Control** **DFBF, DFCB, DFCC Spec H Through L**



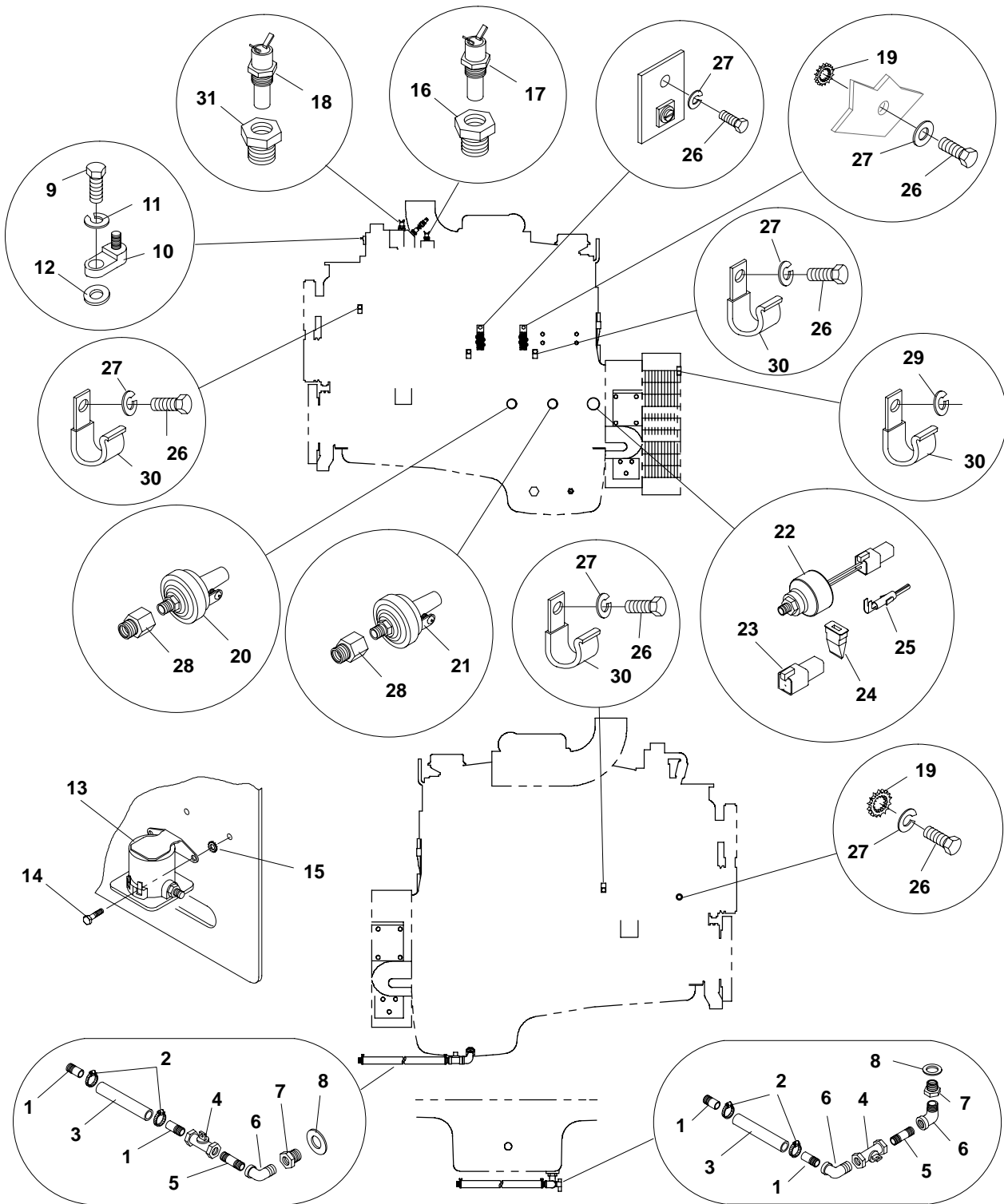
CP01,H529,546,547

**External Engine Parts
Generator Sets With Detector Control
DFBF, DFCB, DFCC Spec H Through L**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0185	2	Nipple, Pipe – Half (1/2" x 1-1/2")	17	309-0561	1	Switch, Oil Pressure (Opens At 14 Lbs Decending) (S1)
2	503-0189	2	Clamp, Hose	18	193-0244	1	Sender, Oil Pressure (E1)
3	503-1013	1	Hose, Oil Drain (3/4" ID)	19	800-0048	3	Screw, Cap – Hex Head (3/8-16 x 3/4")
4	504-0011	1	Valve, Shutoff (1/2")	20	801-0048	3	Screw, Cap – Hex Head (3/8-24 x 3/4")
5	505-0050	1	Elbow, Pipe – Street – 90 Deg (1/2")	21	850-0050	6	Washer, Lock – Spring (3/8")
6	102-1335	1	Plug, Oil Drain	22	505-1503	2	Adapter, Pipe (1/8")
7	508-0292	1	Washer, Sealing – Copper	23	332-2634	5	Clamp, "J"
8	505-0021	1	Bushing, Pipe – Reducer (3/4" to 1/2")	24	307-2167	1	Relay, Start Solenoid (K2)
9			Bushing, Pipe – Reducer (1/2" to 3/8")	25	526-0018	1	Washer, Flat (1/4")
	505-0019	2	DFBF	26	505-0131	1	Bushing, Pipe – Reducer (3/4" to 3/8") DFCB, DFCC
	505-0019	1	DFCB, DFCC	27	505-0100	1	Nipple, Pipe – Close (1/2")
10	309-0437	1	Switch, Thermostat – High Engine Coolant Temperature (Opens At 202 Deg F – Closes At 222 Deg F) (S2)	28	309-0269	1	Switch, Temperature – Low Engine Coolant (S4)
11	309-0436	1	Switch, Thermostat – High Engine Coolant Temperature (Opens At 196 Deg F – Closes At 216 Deg F) (S6 – Pre-Alarm)	29	800-0062	1	Screw, Cap – Hex Head (3/8-16 x 4")
12	193-0375	1	Sender, Water Temperature (E2)	30	850-0050	1	Washer, Lock – Spring (3/8")
13	856-0010	3	Washer, Lock – EIT (3/8")	31	526-0066	1	Washer, Flat (3/8") Not Used On All Models
14	332-1292	1	Bracket Assembly, Terminal (Includes Parts Marked *) (T26)	32	332-1281	1	* Bracket, Mounting
15	856-0006	1	Washer, Lock – EIT (1/4")	33	809-0036	1	* Screw, Round Head – Sheet Metal (#8 x 7/8")
16	309-0641-07	1	Switch, Oil Pressure (Opens At 20 Lbs Decending) (S5 – Pre-Alarm)	34	508-0015	1	* Washer, Fiber
				35	870-0196	1	* Nut, Insulator
				36	821-0010	2	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")

* – Parts Included In 332-1292 Terminal Bracket Assembly

External Engine Parts
Generator Sets With Detector Control
DFBF, DFCB, DFCC Begin Spec M
DFCE

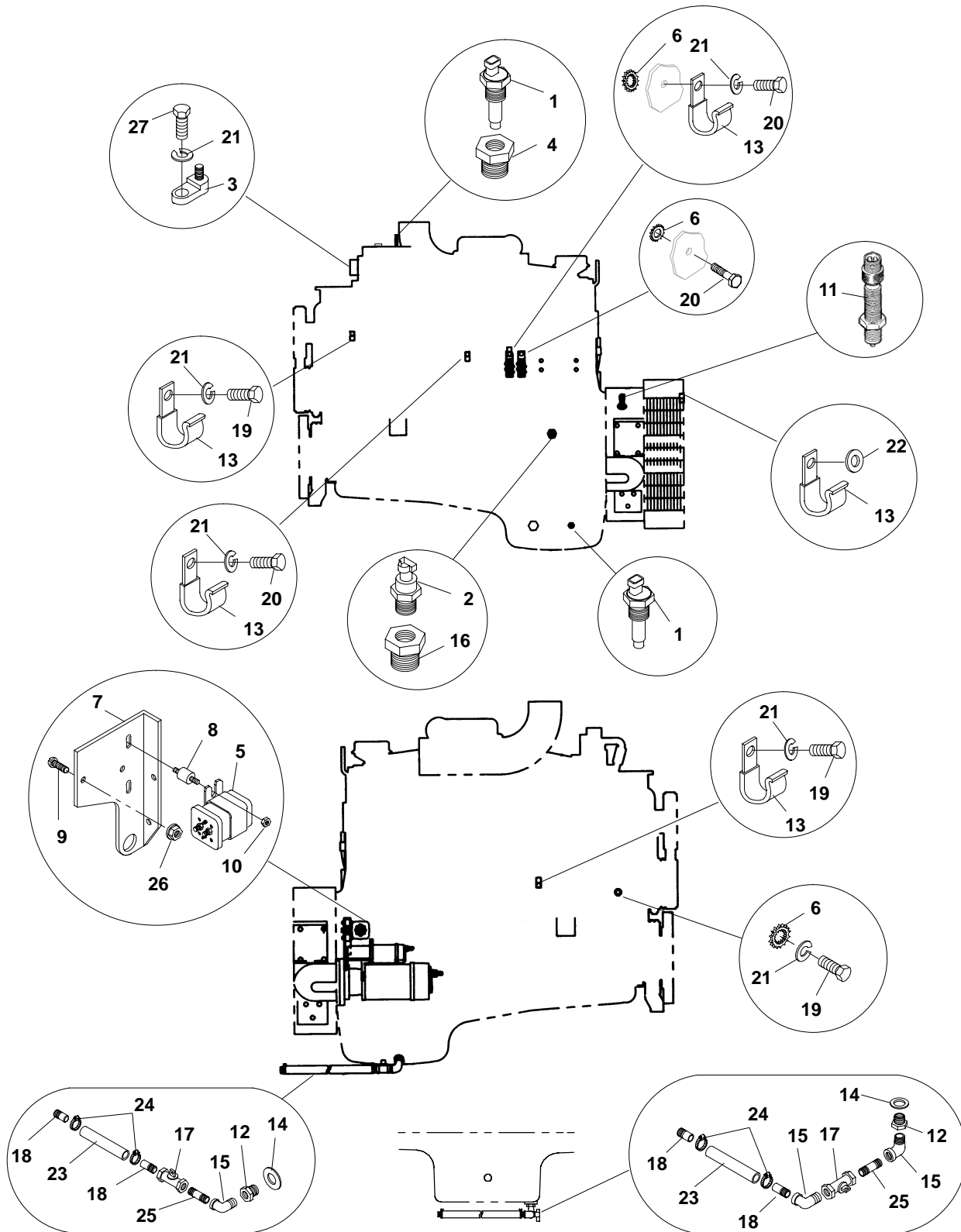


CP01,H529,546,547

**External Engine Parts
Generator Sets With Detector Control
DFBF, DFCB, DFCC Begin Spec M
DFCE**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0185	2	Nipple, Pipe – Half (1/2" x 1-1/2")	18	193-0447-01	1	Sender, Water Temperature (E2)
2	503-0189	2	Clamp, Hose	19	856-0010	2	Washer, Lock – EIT (3/8")
3	503-1013	1	Hose, Oil Drain (3/4" ID)	20	309-0641-07	1	Switch, Oil Pressure (Opens At 20 Lbs Decending) (S5 Pre-Alarm)
4	504-0011	1	Valve, Shutoff (1/2")				
5	505-0100	1	Nipple, Pipe – Close (1/2")	21	309-0641-03	1	Switch, Oil Pressure (Opens At 14 Lbs Decending) (S1)
6			Elbow, Pipe – Street – 90 Deg (1/2")	22	193-0448	1	Sender, Oil Pressure (Includes Parts Marked *) (E1)
	505-0050	1	DFBF, DFCB, DFCC				
	505-0050	2	DFCE	23	323-1549	1	* Connector, Receptacle – 4 Place
7	102-1335	1	Plug, Oil Drain	24	323-1548	1	* Wedge, Receptacle
8	508-0292	1	Washer, Sealing – Copper	25	323-1492	4	* Socket, Contact
9	800-0062	1	Screw, Cap – Hex Head (3/8-16 x 4")	26	801-0048	6	Screw, Cap – Hex Head (3/8-24 x 3/4")
10	309-0269	1	Switch, Temperature – Low Engine Coolant (S4)	27	850-0050	6	Washer, Lock – Spring (3/8")
11	850-0050	1	Washer, Lock – Spring (3/8")	28	503-1503	2	Adapter, Pipe (1/8")
12	526-0066	1	Washer, Flat (3/8") Not Used On All Models	29	526-0018	1	Washer, Flat (1/4")
13	307-2167	1	Relay, Start Solenoid (K2)	30	332-2634	5	Clamp, "J"
14	821-0010	2	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	31	505-0021	1	Bushing, Pipe – Reducer (3/4" to 1/2") DFCB, DFCC, DFCE
15	856-0006	1	Washer, Lock – EIT (1/4")	* – Parts Included In 193-0448 Oil Pressure Sender			
16	505-0019	1	Bushing, Pipe – Reducer (1/2" to 3/8")				
17	309-0576	1	Switch, Thermostat – High Engine Coolant Temperature (Opens At 202 Deg F – Closes At 222 Deg F) (S2)				

External Engine Parts
Generator Sets With PowerCommand Control
DFBF, DFCB, DFCC Begin Spec K
DFCE

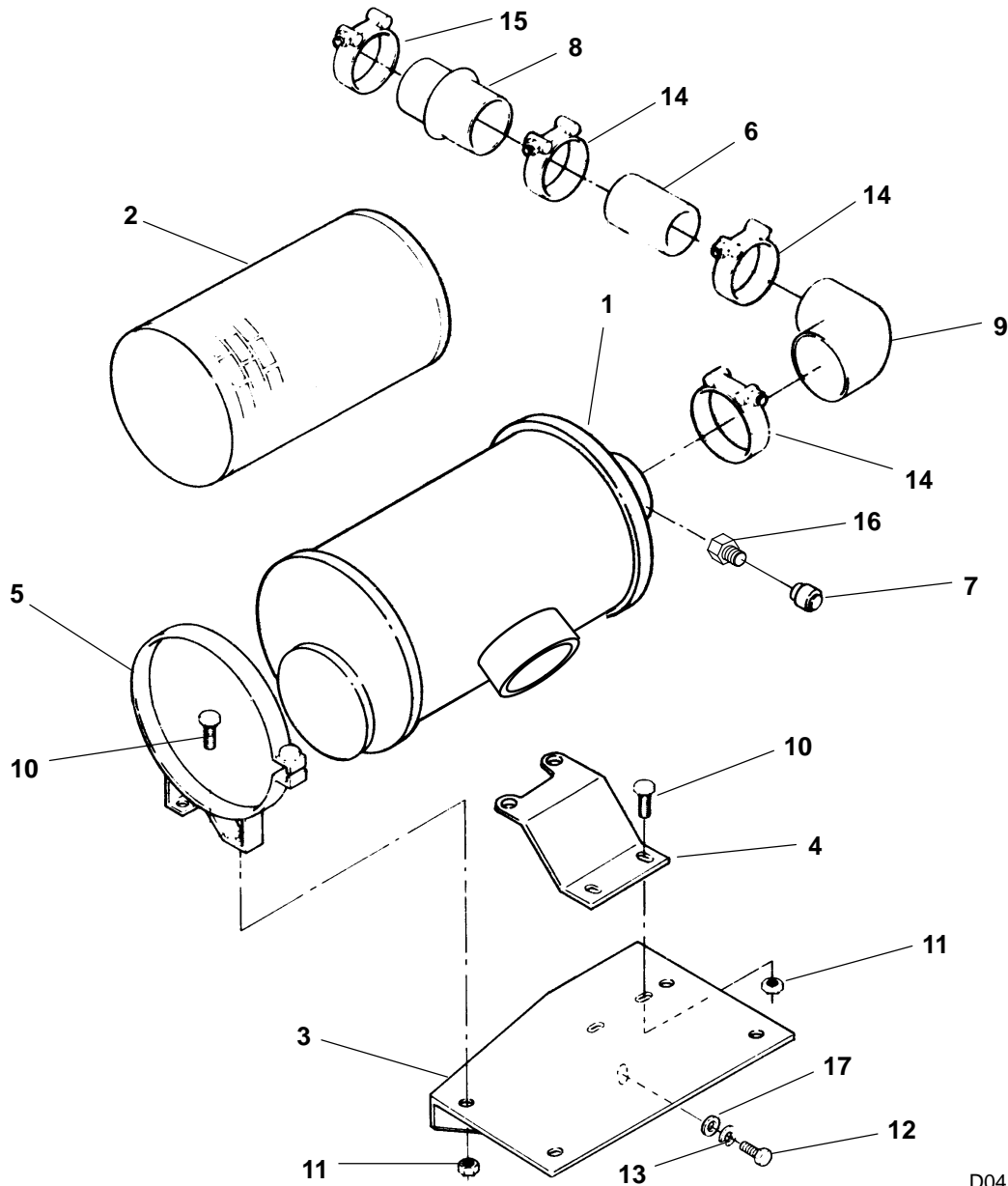


H530,532,555

External Engine Parts
Generator Sets With PowerCommand Control
DFBF, DFCB, DFCC Begin Spec K
DFCE

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0432	2	Sender, Oil Temperature (S2 Engine Block, E4 Oil Pan)	16	505-1503	1	Adapter, Pipe (1/8")
2	193-0444	1	Sender, Oil Pressure (S1)	17	504-0011	1	Valve, Shutoff (1/2")
3	309-0269	1	Switch, Temperature – Low Engine Coolant (S4)	18	505-0185	2	Nipple, Pipe – Half (1/2" x 1-1/2")
4			Bushing, Pipe – Reducer	19	800-0048	3	Screw, Cap – Hex Head (3/8-16 x 3/4")
	505-0019	1	DFBF (1/2" to 3/8")	20	801-0048	3	Screw, Cap – Hex Head (3/8-24 x 3/4")
	505-0131	1	DFCB, DFCC, DFCE (3/4" to 3/8")	21	850-0050	6	Washer, Lock – Spring (3/8")
5	307-2621-02	1	Relay, Start Solenoid (K4)	22	526-0018	1	Washer, Flat (1/4")
6	856-0010	3	Washer, Lock – EIT (3/8")	23	503-1013	1	Hose, Drain (3/4" ID)
7	319-2236	1	Bracket, Mounting	24	503-0189	2	Clamp, Hose
8	402-0610	2	Isolator, Vibration	25	505-0100	1	Nipple, Pipe – Close (1/2")
9	812-0067	2	Screw, Machine – Round Head (#6-32 x 7/8") Terminal Block Mounting	26	870-0183	2	Nut, Lock – Hex Head – W/ET Lock Washer (#6-32) Terminal Block Mounting
10	870-0212	4	Nut, Locking (1/4-20)	27	800-0062	1	Screw, Cap – Hex Head (3/8-16 x 4")
11	151-0411	1	Pickup, Magnetic (P1)				
12	102-1335	1	Plug, Oil Drain				
13	332-2634	5	Clamp, "J"				
14	508-0292	1	Washer, Sealing – Copper				
15			Elbow, Pipe – Street – 90 Deg (1/2")				
	505-0050	1	DFBF, DFCB, DFCC				
	505-0050	2	DFCE				

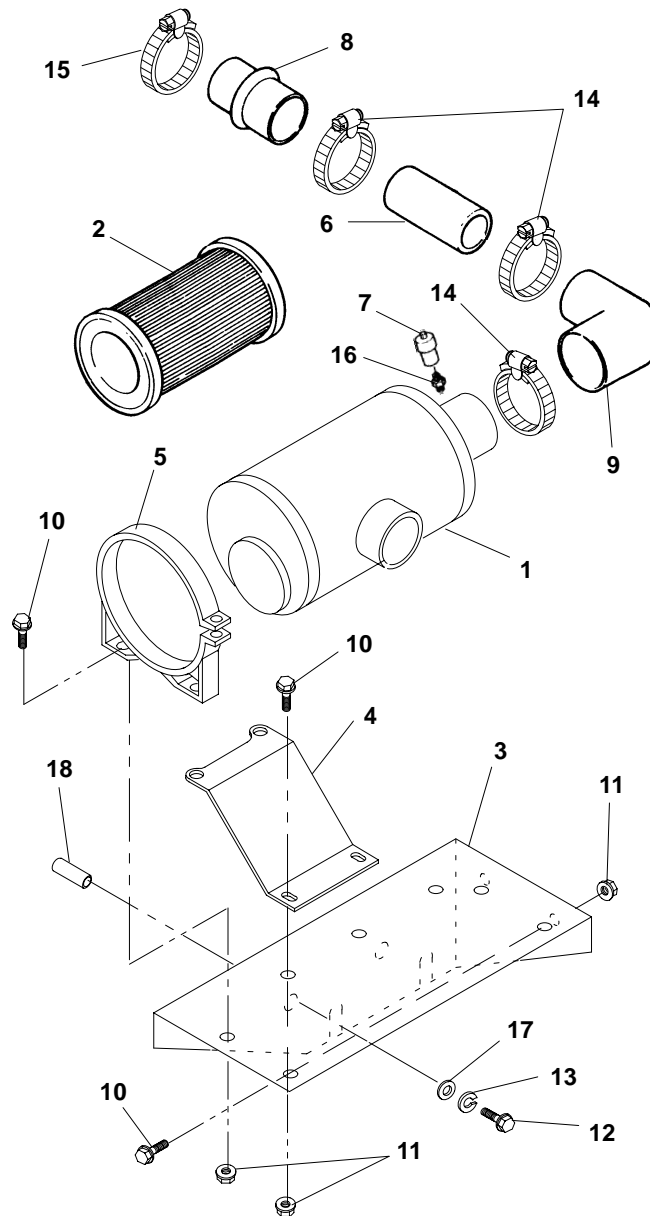
**Air Cleaner
Standard
DFBF, DFCB, DFCC Spec H Through M
DFCE Spec A**



D041

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2389	1	Cleaner, Air – Includes Element	11	870-0281	6	Nut, Locking (3/8-16)
2	140-2391	1	Element, Air Cleaner	12	801-0119	2	Screw, Cap – Hex Head (5/8-18 x 1")
3	140-2385	1	Bracket, Mounting	13	850-0070	2	Washer, Lock – Spring (5/8")
4	140-2384	1	Bracket, Mounting	14	503-1870-14	3	Clamp, Hose
5	140-1973	2	Band, Mounting	15	503-1870-11	1	Clamp, Hose
6	140-2519	1	Tube, Air Inlet	16	503-1503	1	Adapter, Pipe (1/8")
7	140-1548	1	Indicator, Service	17	526-0112	2	Washer, Flat (5/8")
8	503-1675	1	Hose, Reducer				
9	503-0970	1	Elbow, Hose – 90 Deg				
10	821-0029	6	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")				

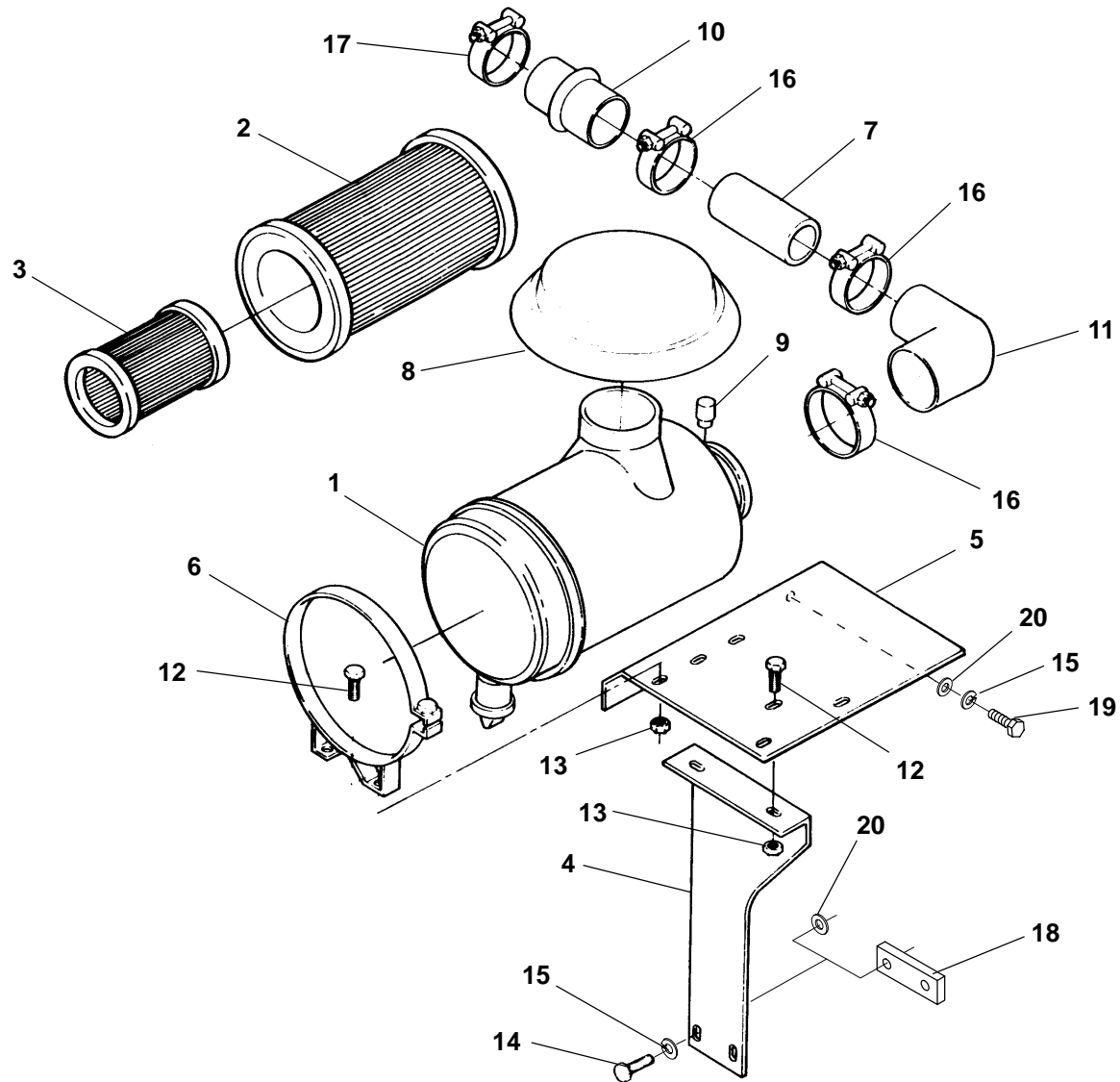
**Air Cleaner
Standard
DFBF, DFCB, DFCC Begin Spec N
DFCE Begin Spec B**



D041

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2389	1	Cleaner, Air (Includes Element)	11	870-0550-09	8	Nut, Hex – Flange Head (3/8-16)
2	140-2391	1	Element	12	801-0124	2	Screw, Cap – Hex Head (5/8-18 x 3-1/4")
3	140-3096	1	Bracket, Mounting	13	850-0070	2	Washer, Lock – Spring (5/8")
4	140-2384	1	Bracket, Mounting	14	503-1870-14	3	Clamp, Hose
5	140-1973	2	Band, Mounting	15	503-1870-11	1	Clamp, Hose
6	140-2395-01	1	Tube, Air Inlet (7" ID x 10-1/2")	16	505-1503	1	Adapter, Pipe
7	140-1548	1	Indicator, Service	17	526-0112	2	Washer, Flat (5/8")
8	503-1675	1	Hose, Reducer (7" ID x 5-1/2" ID)	18	403-4115-01	2	Spacer, Mounting
9	503-0970	1	Elbow, Hose – 90 Deg (7" ID)				
10	821-5004-02	8	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")				

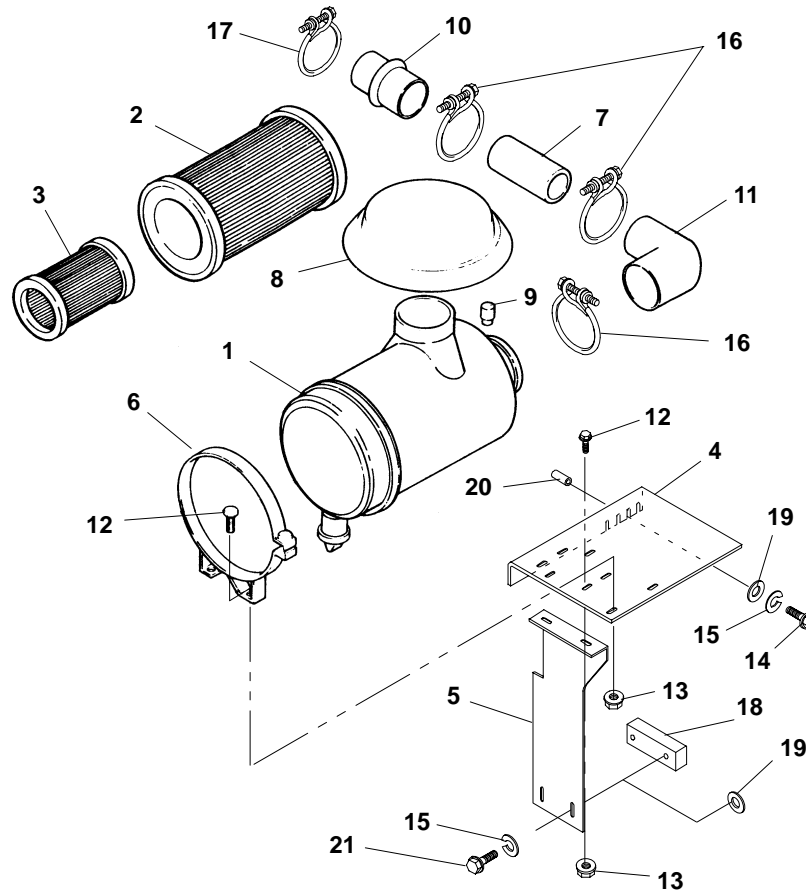
**Air Cleaner
Heavy Duty
DFBF, DFCB, DFCC Spec H Through M**



D036

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2390	1	Cleaner, Air – Includes Elements	13	870-0281	6	Nut, Locking (3/8-16)
2	140-2392	1	Element (Outer)	14	800-0132	2	Screw, Cap – Hex Head (5/8-11 x 1-1/2")
3	140-2393	1	Element (Inner)	15	850-0070	4	Washer, Lock – Spring (5/8")
4	140-2386	1	Bracket, Mounting	16	503-1870-14	3	Clamp, Hose
5	140-2387	1	Bracket, Mounting	17	503-1870-11	1	Clamp, Hose
6	140-2052	2	Band, Mounting	18	140-2388	1	Spacer, Mounting (Used Without Optional Starting Aid)
7	140-2395	1	Tube, Air Inlet	19	801-0119	2	Screw, Cap – Hex Head (5/8-18 x 1")
8	140-1545	1	Hood, Air Cleaner	20	526-0112	4	Washer, Flat (5/8") (Used With Optional Starting Aid)
9	140-1548	1	Indicator, Service				
10	503-1675	1	Hose, Reducer				
11	503-0970	1	Elbow, Hose – 90 Deg				
12	821-0029	6	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")				

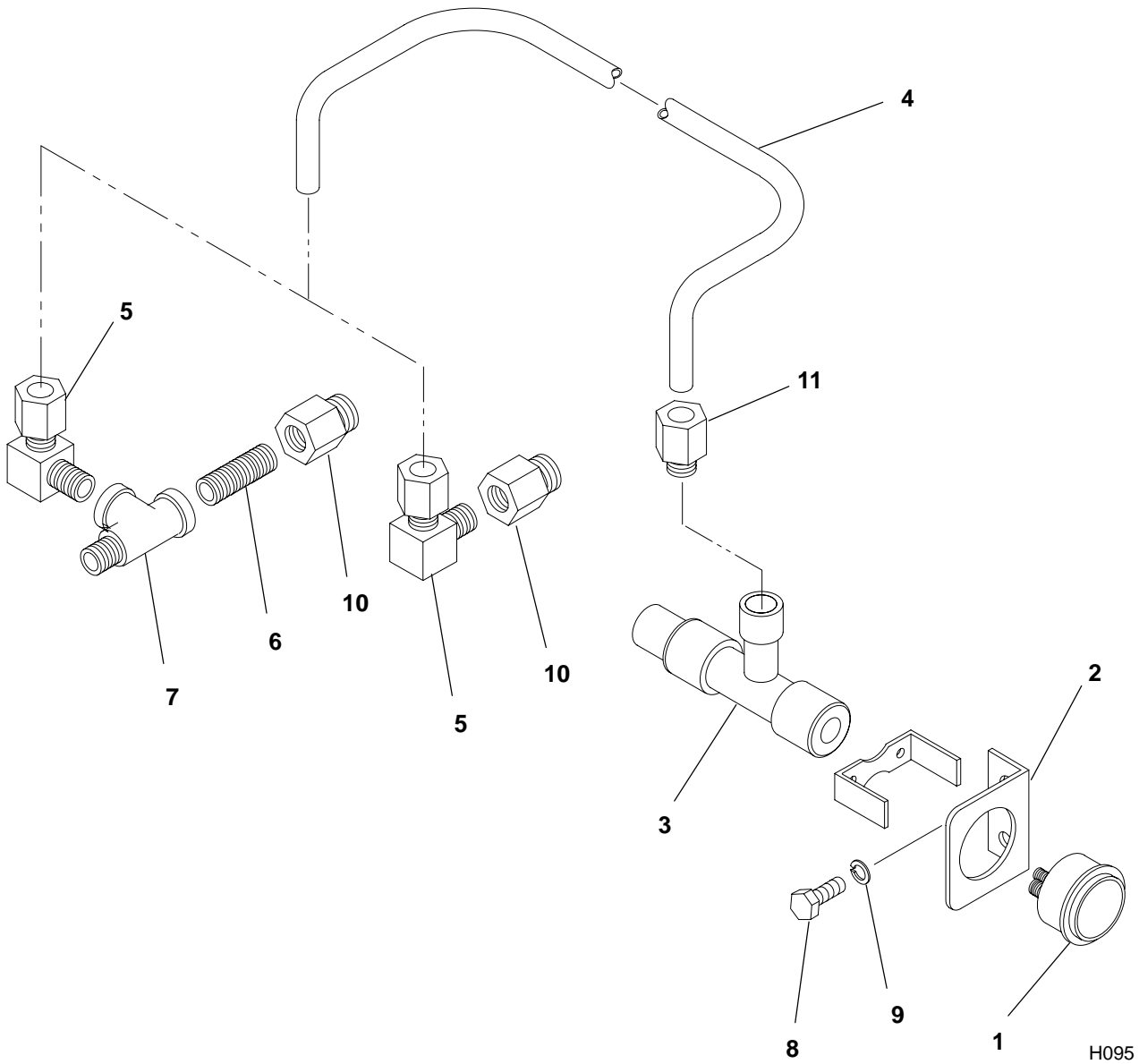
Air Cleaner Heavy Duty DFBF, DFCB, DFCC Begin Spec N



D036

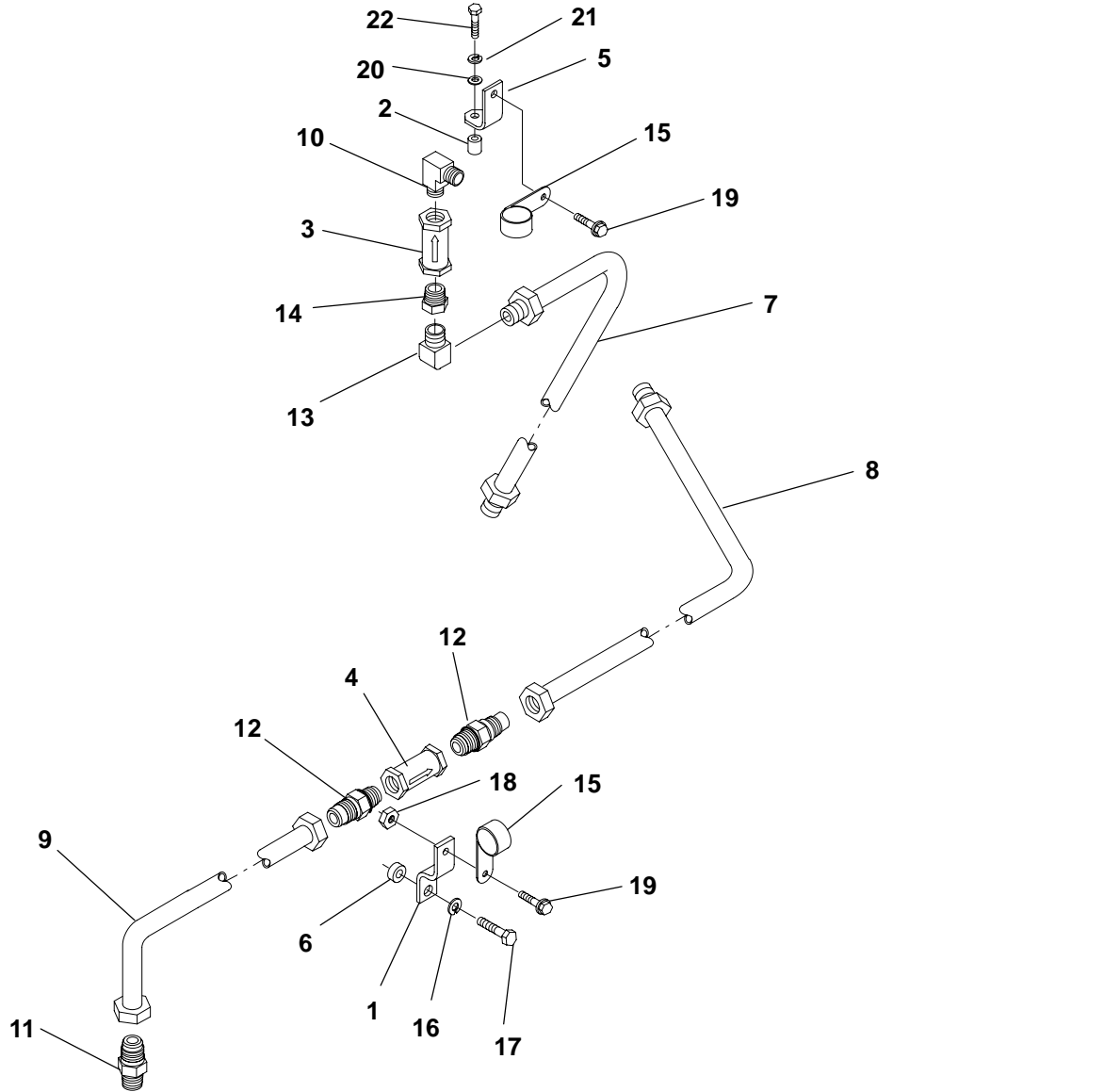
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2390	1	Cleaner, Air (Includes Elements)	13	870-0550-09	6	Nut, Hex – Flange Head (3/8-16)
2	140-2392	1	Element (Outer)	14	801-0124	2	Screw, Cap – Hex Head (5/8-18 x 3-1/4")
3	140-2393	1	Element (Inner)	15	850-0070	4	Washer, Lock – Spring (5/8")
4	140-3102	1	Bracket, Mounting	16	503-1870-14	3	Clamp, Hose
5	140-3103	1	Bracket, Mounting	17	503-1870-11	1	Clamp, Hose
6	140-2052	2	Band, Mounting	18	140-2388	1	Spacer, Mounting (Used Without Optional Starting Aid)
7	140-2395	1	Tube, Air Inlet (7" OD x 11-1/2")	19	526-0112	4	Washer, Flat (5/8") (Used With Optional Starting Aid)
8	140-1545	1	Hood, Air Cleaner	20	403-4115-01	2	Spacer, Mounting
9	140-1548	1	Indicator, Service	21	800-0132	2	Screw, Cap – Hex Head (5/8-11 x 1-1/2")
10	503-1675	1	Hose, Reducer (7" ID x 5-1/2" ID)				
11	503-0970	1	Elbow, Hose – 90 Deg (7" ID)				
12	821-5004-02	6	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")				

Fuel Pressure Gauge



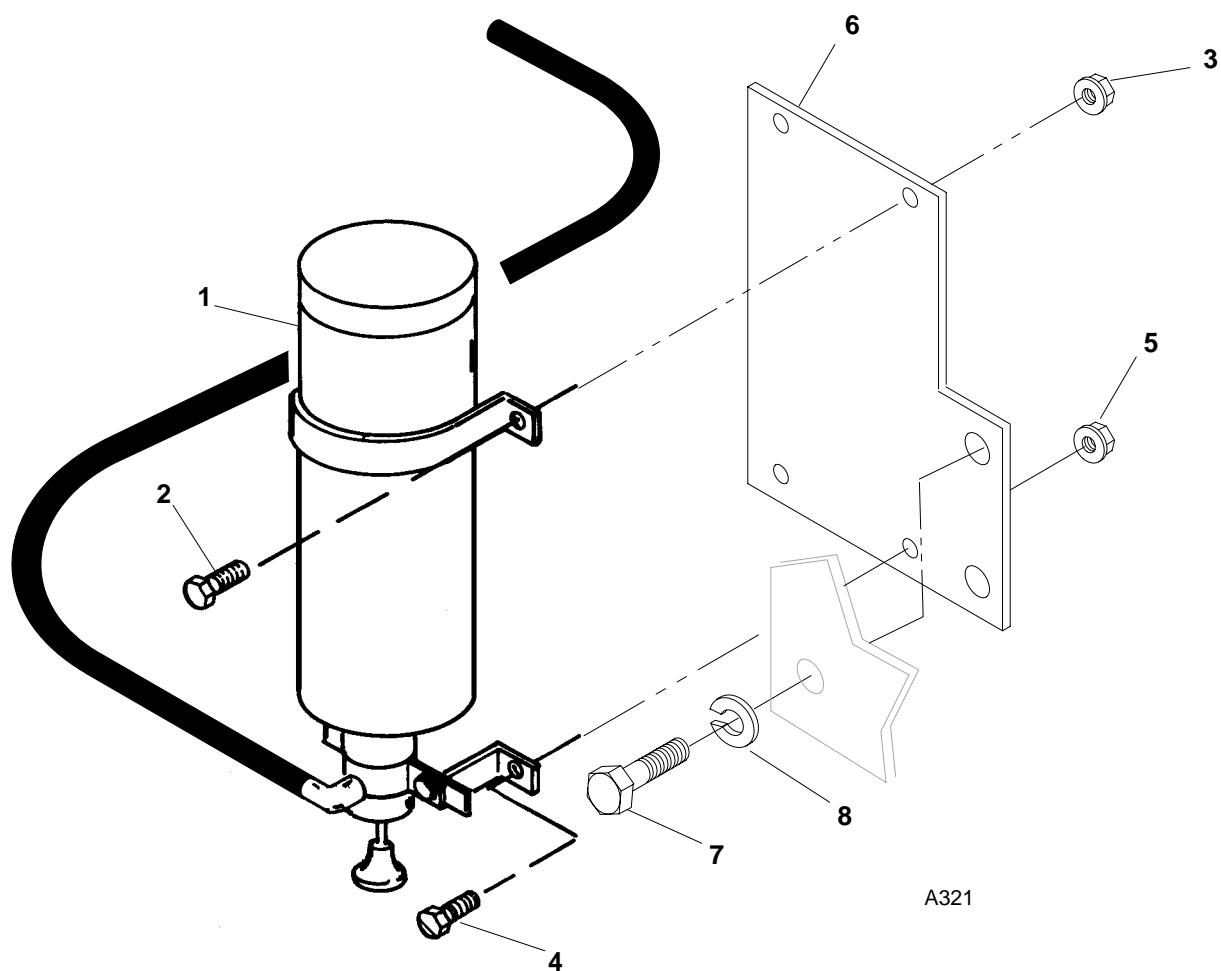
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0128	1	Gauge, Fuel Pressure (Includes Mounting Hardware)	7	502-1226	1	Tee, Male Run – Brass (1/8") DFCB, DFCC, DFCE
2	193-0029	1	Bracket, Mounting	8	800-0218	1	Screw, Cap – Hex Head (9/16-18 x 7/8")
3	504-0064	1	Valve, Tee (1/8")	9	850-0065	1	Washer, Lock – Spring (9/16")
4	370-4003	1	Tube, Copper (7')	10	502-1302	1	Adapter, Female Pipe – Brass (1/8" x 1/2-20)
5	502-0034	1	Elbow, Compression – 90 Deg (Includes Nut and Ring)	11	502-0067	1	Connector, Compression – Male
6	505-0098	1	Nipple, Pipe – Close (1/8") DFCB, DFCC, DFCE				

Fuel Check Valve DFBF, DFCB, DFCC Spec H



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-2165	1	Brace, Tube	13	502-1065-05	1	Elbow, Adapter (1/2-20)
2	149-2166-01	1	Spacer, Mounting (7/16" ID)	14	505-1395	1	Bushing, Pipe
3	149-2167-01	1	Valve, Fuel Check (3/8" ID)	15	518-0548-20	2	Clip
4	149-2167-04	1	Valve, Fuel Check (9/16" ID)	16	850-0065	1	Washer, Lock - Spring (9/16")
5	149-2168-01	1	Brace, Tube	17	800-0218	1	Screw, Cap - Hex Head (9/16-18 x 7/8")
6	149-2169-01	1	Spacer, Mounting (1/2" ID)	18	870-0281	1	Nut, Self-Locking (3/8-16)
7	149-2170	1	Tube, Fuel Drain	19	821-0029	2	Screw, Self-Locking - Hex Washer Head (3/8-16 x 3/4")
8	149-2177	1	Tube, Fuel Supply	20	526-0030	1	Washer, Flat (13/32")
9	149-2178	1	Tube, Fuel Supply	21	850-0050	1	Washer, Lock - Spring (3/8")
10	502-1043-05	1	Elbow, Male Adapter (3/8-18 x 3/4-16)	22	800-0056	1	Screw, Cap - Hex Head (3/8-16 x 2-1/2")
11	502-1045-02	1	Connector, Male (1/2-14 x 3/4-16)				
12	502-1062-11	2	Union, Male (1/2-20 x 9/16-18)				

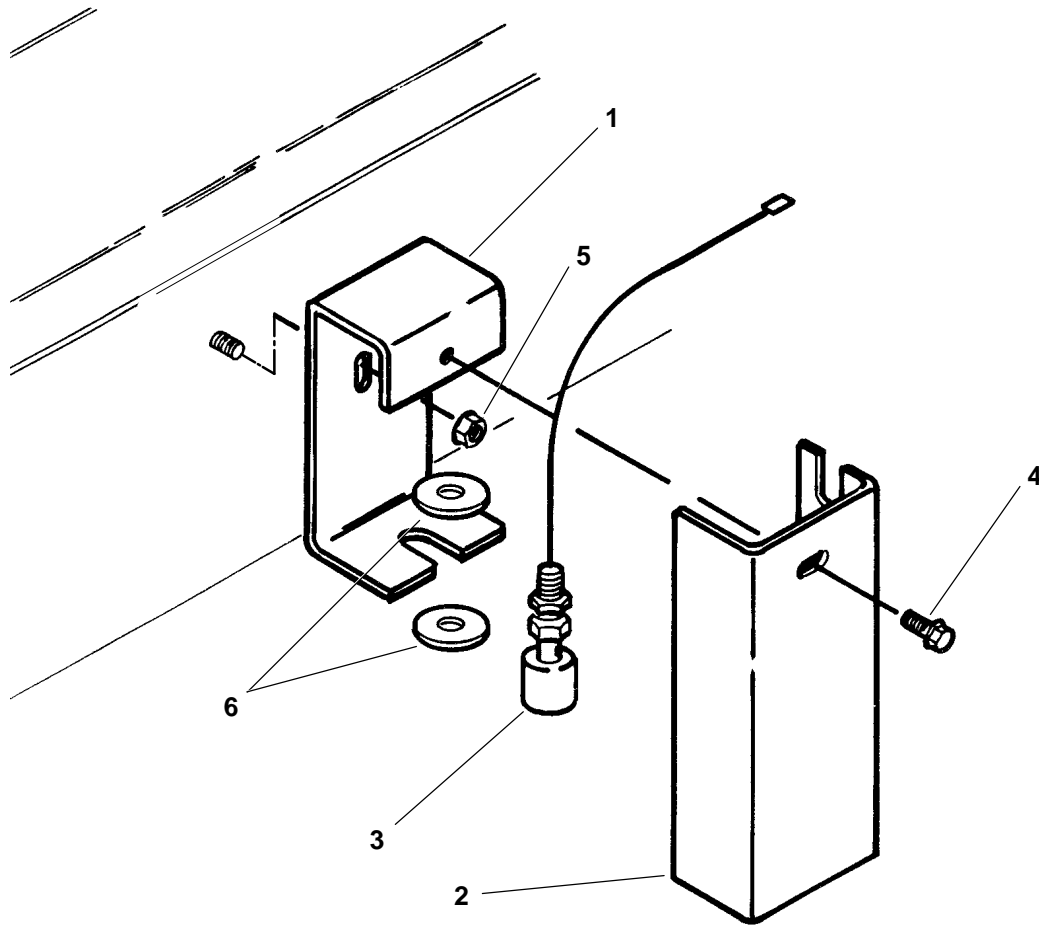
Starting Aid



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2306-01	1	Aid, Starting (Includes Valve Assembly, 48" Nylon Tube, Cylinder Clamp, Atomizer, Instructions and Label)
2	821-0016	2	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
3	870-0257	2	Nut, Hex – Locking (5/16-18)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	821-0018	2	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")
5	870-0212	2	Nut, Hex – Locking (1/4-20)
6	140-2801	1	Bracket, Mounting
7	800-0130	2	Screw, Cap – Hex Head (5/8-11 x 1")
8	850-0070	2	Washer, Lock – Spring (5/8")

Float Switch **DFBF, DFCB, DFCC Spec H Through N**

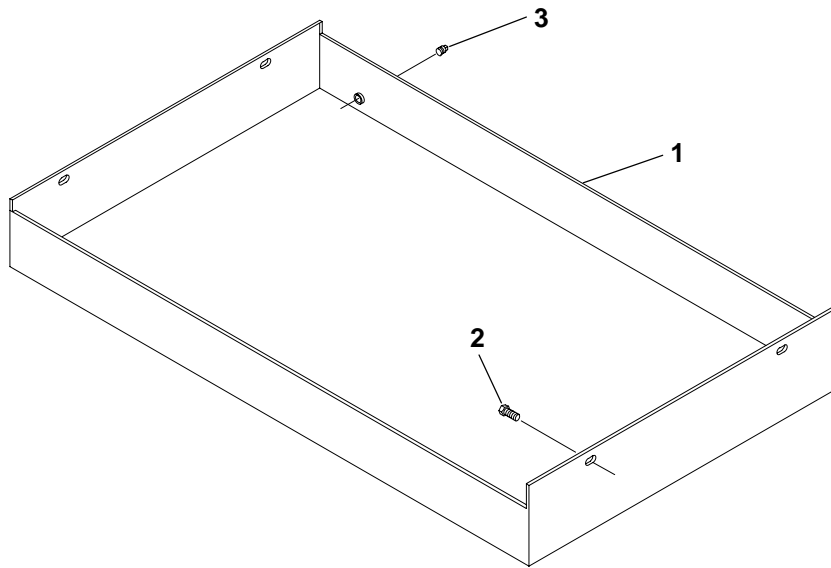


C158

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0490	1	Bracket, Mounting	5	870-0257	1	Nut, Locking – Hex Flange (5/16–18)
2	319-0489	1	Cover, Switch	6	526-0029	2	Washer, Flat (3/8")
3	308-0916-01	1	Switch, Float – Basin				
4	821-5002-03	1	Screw, Self-Locking – Hex Washer Head (1/4–20 x 1/2")				

Rupture Basin

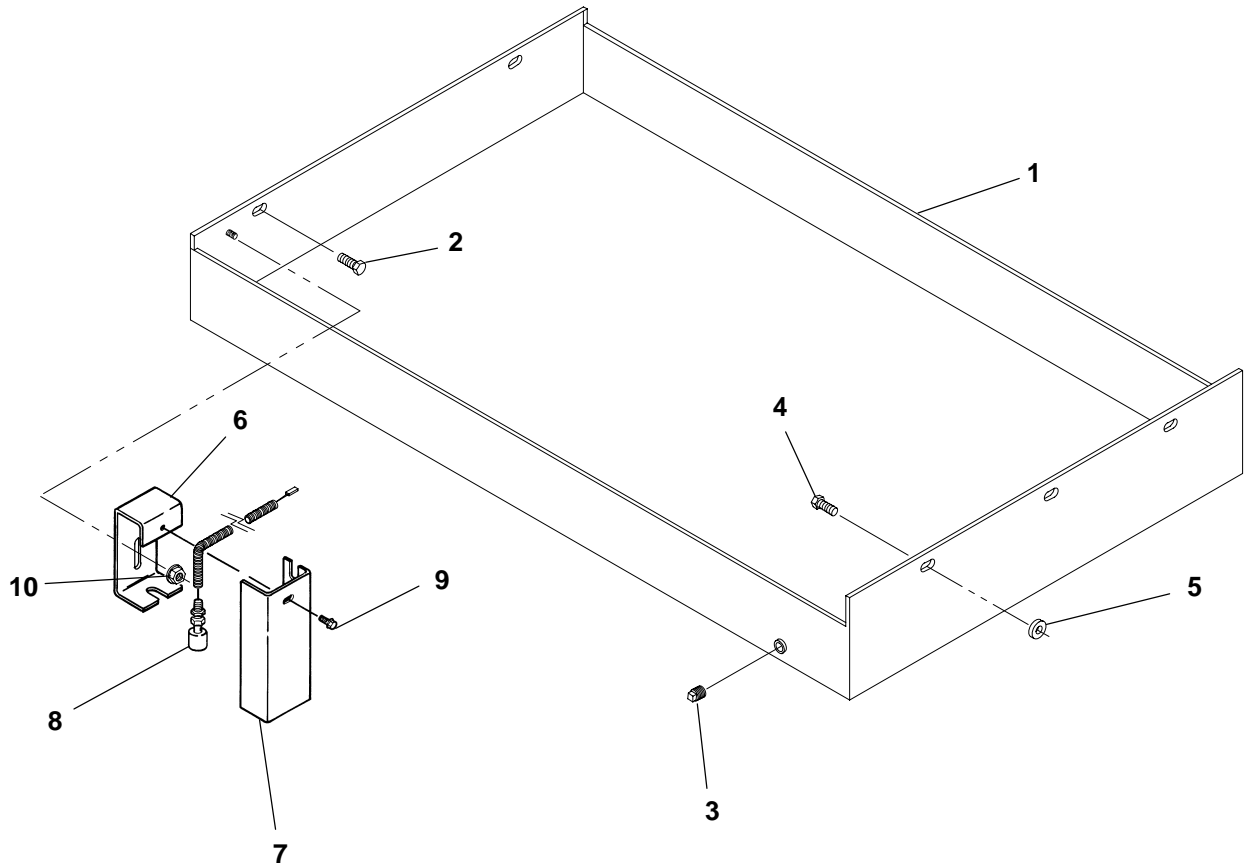
DFBF, DFCB, DFCC Spec H Through N



C142

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	159-1217	1	Basin, Rupture	3	505-0055	1	Plug, Pipe – Square Head (1/4")
2	815-0236	4	Screw, Cap – Hex Head – Thread Forming (5/16-18 x 5/8")				

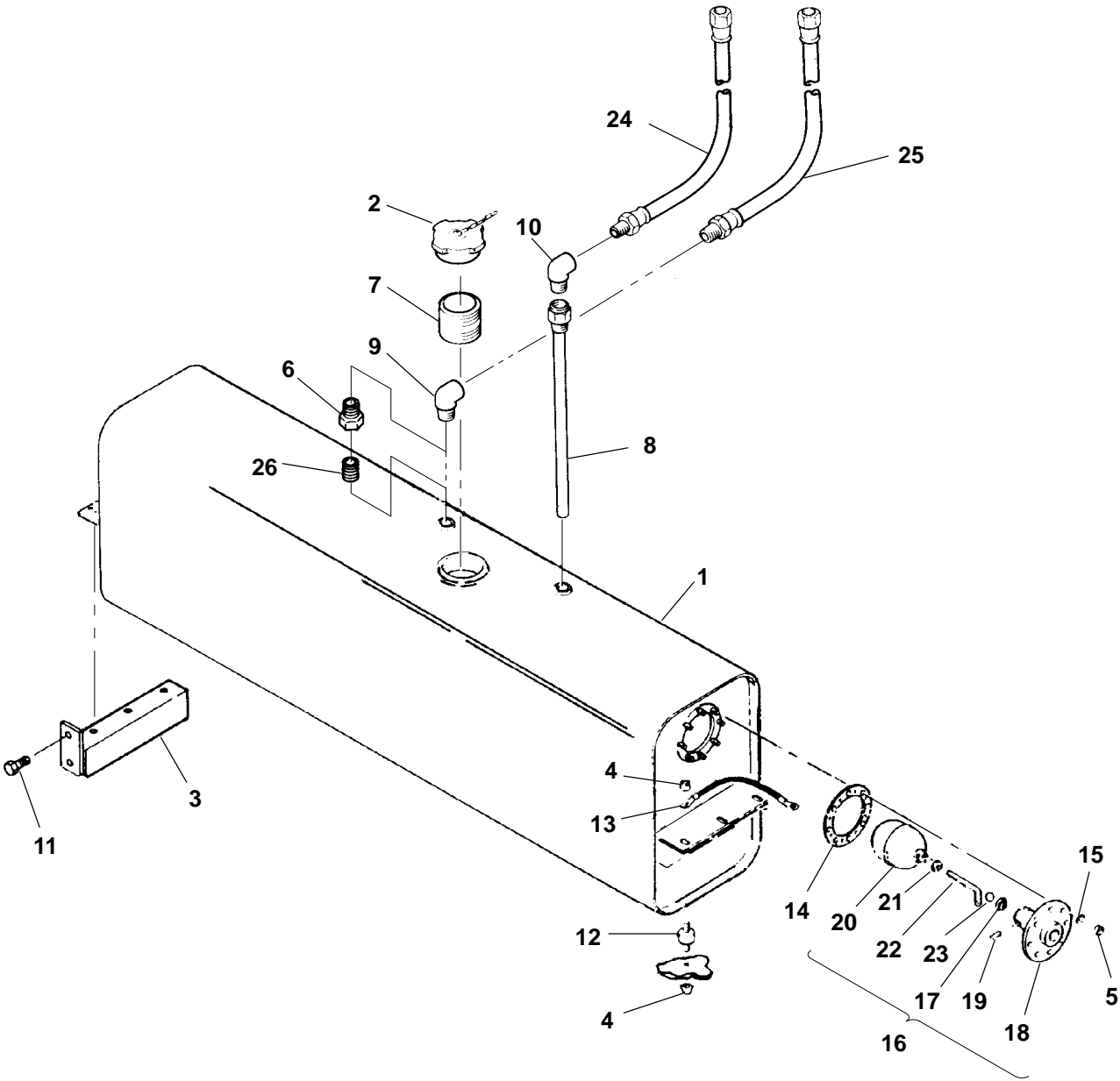
Rupture Basin
DFBF, DFCB, DFCC Begin Spec P
DFCE



C142

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	159-1470	1	Basin, Rupture	7	319-0489	1	*Cover, Switch
2	815-0236	2	Screw, Cap – Hex Head – Thread Forming (5/16-18 x 5/8")	8	308-1074	1	*Switch, Float – Basin
3	505-0055	1	Plug, Pipe – Square Head (1/4")	9	821-0010	1	*Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
4	815-0836	3	Screw, Cap – Hex Head – Thread Forming (5/16-18 x 1-1/2")	10	870-0212	1	*Nut, Locking – Hex Flange (1/4-20)
5	130-3660-01	3	Spacer	* – Not Used On All Models			
6	319-0490	1	*Bracket, Mounting				

Day Tank
Without Pump and Control

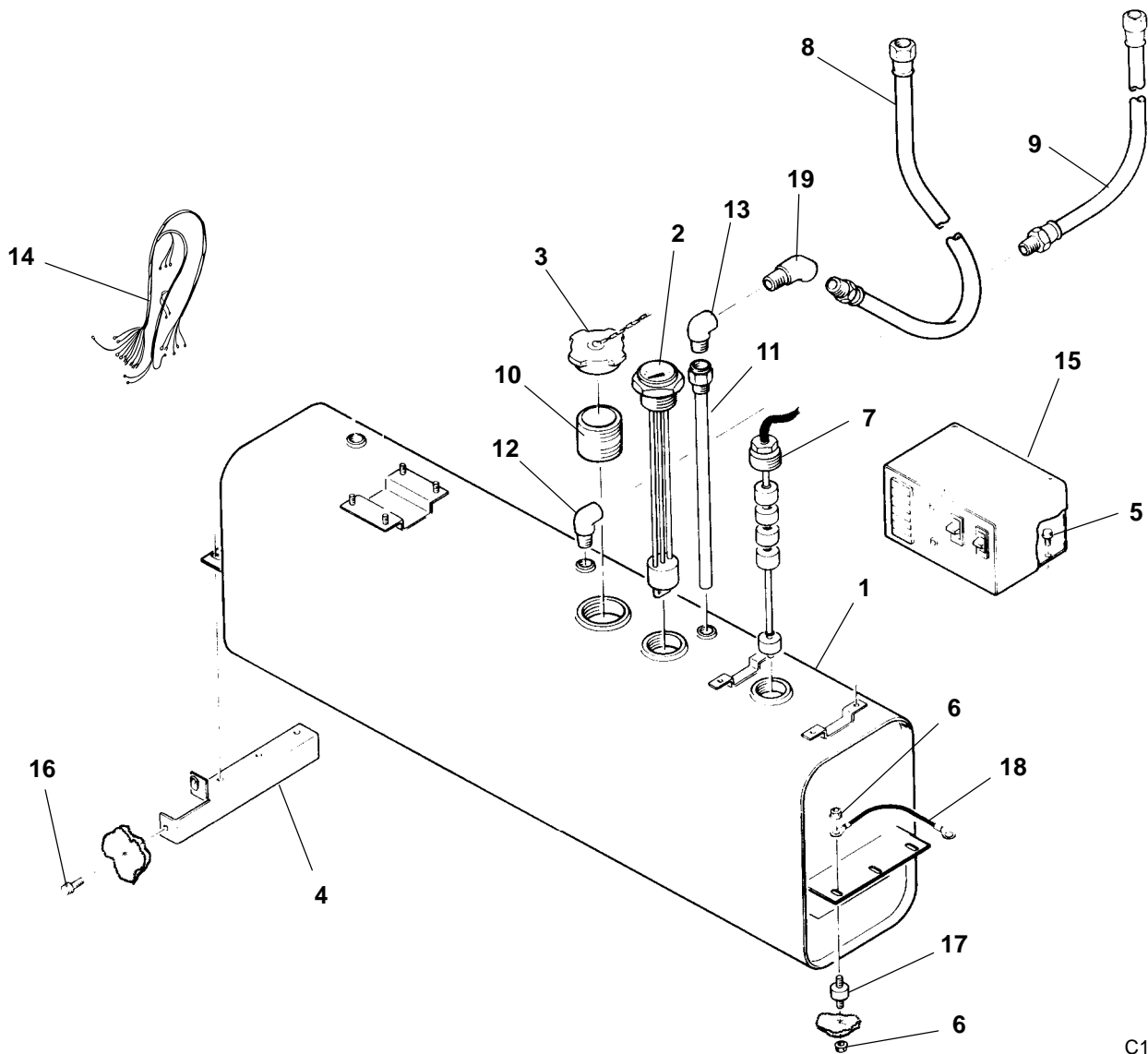


C153

Day Tank Without Pump and Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Tank, Day	9			Elbow – 90 Deg (3/8")
	415-0648	1	8 Gallon (30-1/2" Long x 6-1/4" Wide x 16" High)		505-0039	1	Pipe – Used With 8 Gallon Tank
	415-0649	1	27.5 Gallon (48" Long x 9-1/2" Wide x 15" High)		505-0120	1	Street – Used With 27.5 and 25.7 Gallon Tanks
			DFBF, DFCB, DFCC	10	505-0050	1	Elbow, Street – 90 Deg (1/2")
			Spec H Through L	11	821-5003-03	2	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
	415-0649-01	1	25.7 Gallon (45" Long x 9-1/2" Wide x 15" High)				Isolator, Vibration
			DFBF, DFCB, DFCC		402-0610	4	Used With 8 Gallon Tank
			Begin Spec M, DFCE		402-0610	6	Used With 27.5 and 25.7 Gallon Tanks
2	159-1208	1	Cap, Fuel				
3			Bracket, Mounting	13	337-2402	1	Cable, Ground (5-1/2")
			With 8 Gallon Tank	14	415-0660	1	Gasket
	159-1469	1	Generator Sets With 44" Wide Skid	15	526-0008	8	Washer, Flat (#10)
	159-1311	1	Generator Sets With 50" Wide Skid	16	415-0657	1	Valve Assembly, Float (Includes Parts Marked *)
	159-1218	1	With 27.5 Gallon Tank –	17	415-0656-21	1	* Seal, Ring
			DFBF, DFCB, DFCC	18	415-0650-01	1	* Body, Valve
			Spec H Through L	19	415-0651-19	1	* Pin, Roll
			With 25.7 Gallon Tank –	20	415-0652	1	* Ball, Float
			DFBF, DFCB, DFCC	21	864-0011	1	* Nut, Jam (1/4-20)
			Begin Spec M, DFCE	22	415-0654	1	* Arm, Float
	159-1469	1	Generator Sets With 44" Wide Skid	23	415-0655	1	* Ball, Steel
	159-1218	1	Generator Sets With 50" Wide Skid	24			Line, Fuel – Flexible – Fuel Supply
					501-0084-01	1	Used With 8 Gallon Tank (42")
4			Nut, Locking – Hex Head (1/4-20)		501-0084	1	Used With 27.5 and 25.7 Gallon Tanks (39")
	870-0212	6	Used With 8 Gallon Tank				
	870-0212	9	Used With 27.5 and 25.7 Gallon Tanks	25	501-0548-01	1	Line, Fuel – Flexible – Fuel Return (80")
5	870-0131	8	Nut, Hex – W/ET (#10-32)	26	505-0098	1	Nipple, Pipe – Close (1/8")
6	505-0395	1	Bushing, Pipe – Reducer (3/8" to 1/8") Used With 8 Gallon Tank				Used With 8 Gallon Tank
7	505-0172	1	Nipple, Pipe – Close (2")	* – Parts Included in 415-0657 Float Valve Assembly			
8	415-0566-05	1	Pipe, Suction				

Day Tank With Control

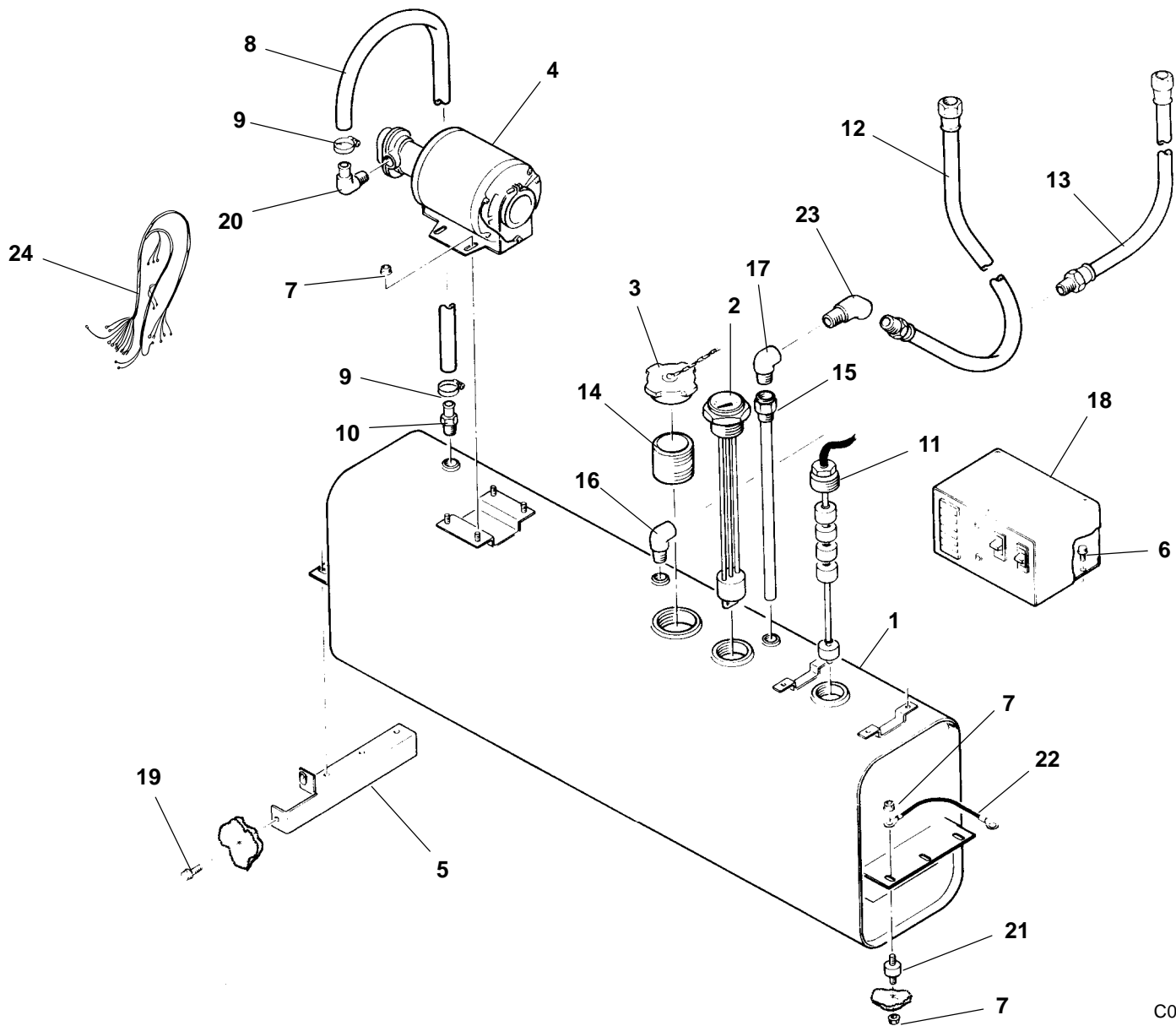


C152

Day Tank With Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	415-0592-01	1	Tank, Day – 25.7 Gallon (45" Long x 9-1/2" Wide x 15" High)	10	505-0172	1	Nipple, Pipe – Close (2")
2	415-0565-05	1	Gauge, Liquid Level	11	415-0566-05	1	Pipe, Suction
3	159-1208	1	Cap, Fuel	12	505-0120	1	Elbow, Pipe – Street (90 Deg) (3/8")
4			Bracket, Mounting	13	505-0050	1	Elbow, Pipe – Street (90 Deg) (1/2")
	159-1469	1	Generator Sets With 44" Wide Skid	14	338-2442	1	Harness, Wiring – Day Tank Control to Starter (2 Wire, 45") (TB1 to B1, GND)
	159-1218	1	Generator Sets With 50" Wide Skid	15	625-2141-01	1	Control Assembly, Day Tank (See Separate Page For Components)
5	821-5002-04	4	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")	16	821-5003-03	2	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
6	870-0212	9	Nut, Locking – Hex Head (1/4-20)	17	402-0610	6	Isolator, Vibration
7	308-0913-01	1	Switch – 5 Float	18	337-2402	1	Cable, Ground (5-1/2")
8	501-0084	1	Line, Fuel – Flexible (Fuel Supply) (39")	19	505-0248	1	Elbow, Pipe – Street (45 Deg) (1/2") DFBF, DFCB, DFCC
9	501-0548-01	1	Line, Fuel – Flexible (Fuel Return) (80")				Begin Spec M, DFCE

Day Tank With Pump and Control

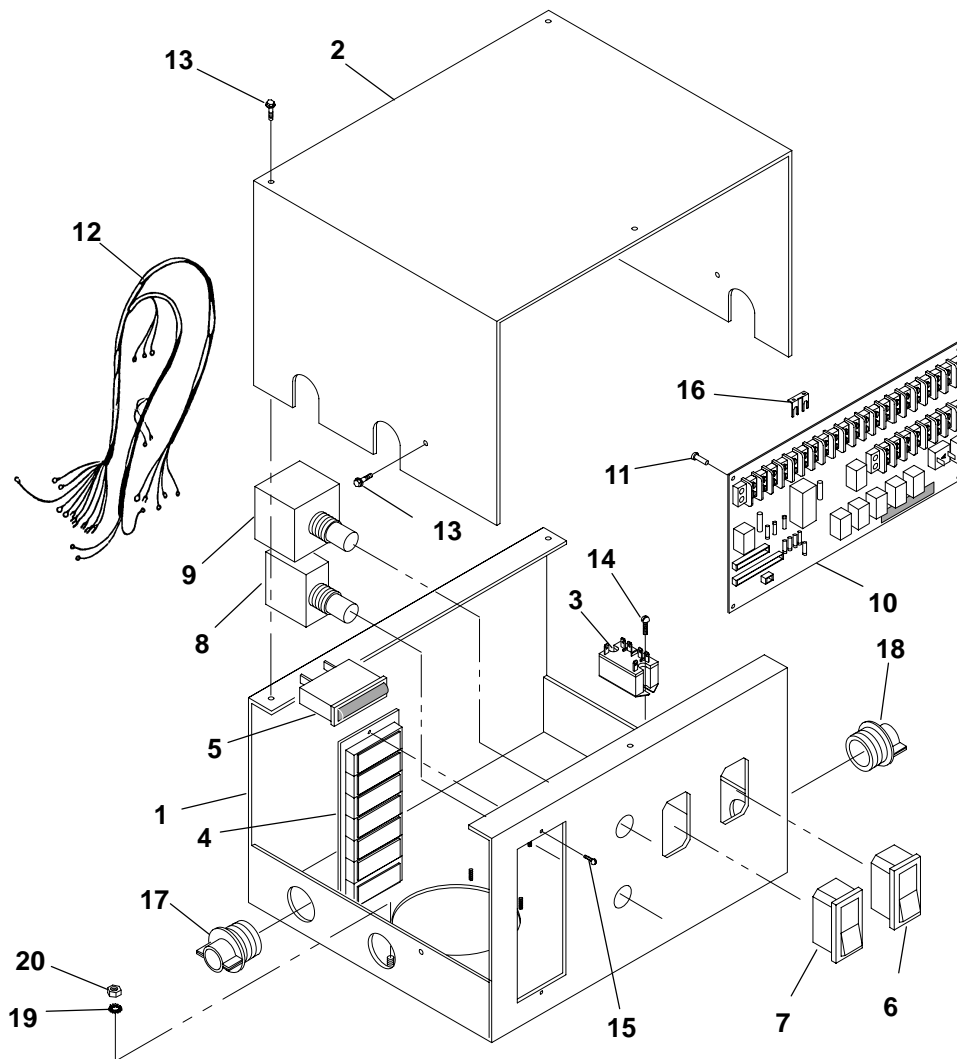


C024

Day Tank With Pump and Control

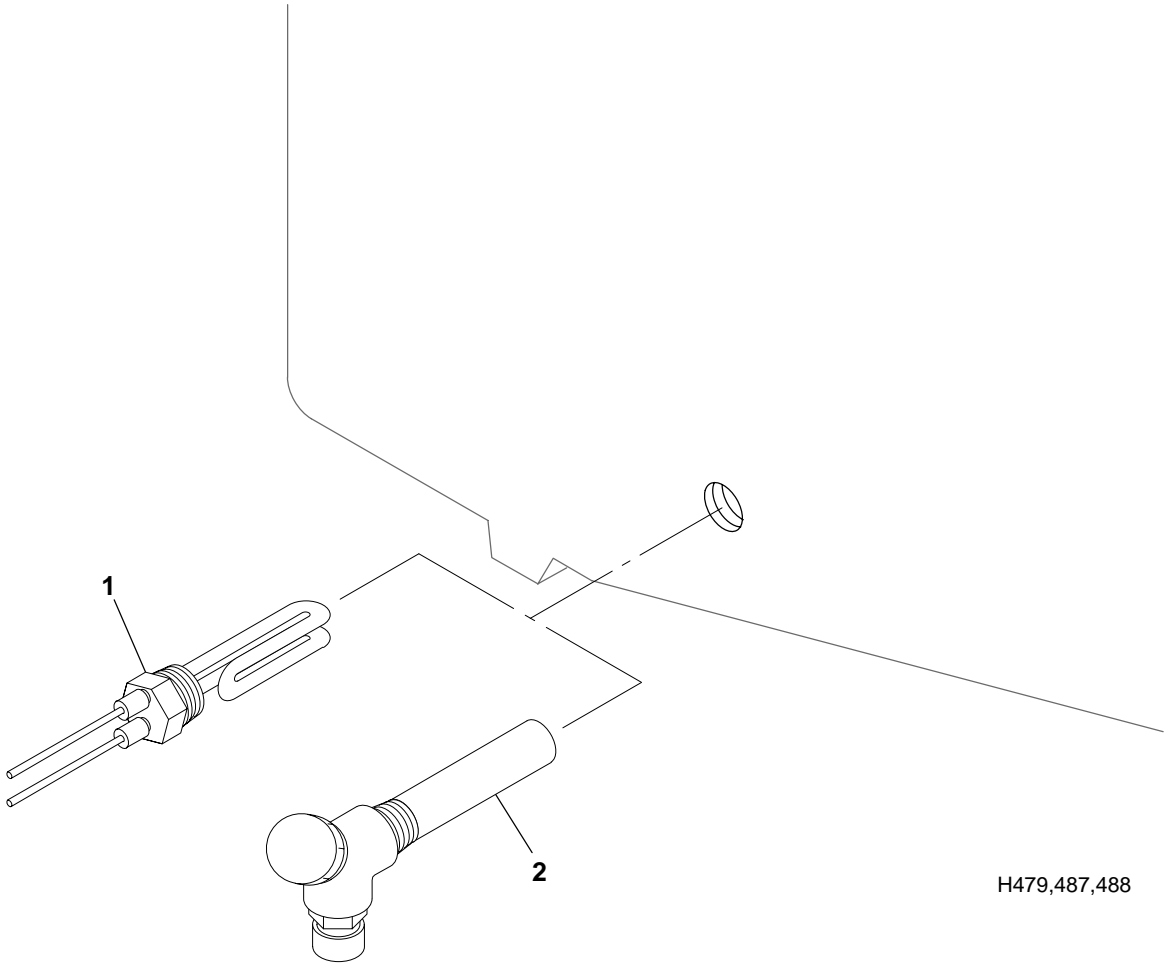
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	415-0592	1	Tank, Day 27.5 Gallon (48" Long x 9-1/2" Wide x 15" High) DFBF, DFCB, DFCC Spec H Through L	8	503-1660-04	1	Hose, Fuel (5/8" ID x 18")
	415-0592-01	1	25.7 Gallon (45" Long x 9-1/2" Wide x 15" High) DFBF, DFCB, DFCC Begin Spec M, DFCE	9	503-0183	2	Clamp, Hose
2	415-0565-05	1	Gauge, Liquid Level	10	502-0943	1	Connector, Hose
3	159-1208	1	Cap, Fuel	11	308-0913-01	1	Switch – 5 Float
4	399-0117	1	Pump, Fuel Transfer (Includes Coupler) (P103)	12	501-0084	1	Line, Fuel – Flexible (Fuel Supply) (39")
	399-0121	1	Kit, Repair – Day Tank Pump (Includes Lip Seal, Bearings, Gasket, Drive Gear, Idle Gear and Coupler) (Not Illustrated)	13	501-0548-01	1	Line, Fuel – Flexible (Fuel Return) (80")
	399-0122	1	Coupler, Pump (Drive Piece Between Motor and Pump) (Not Illustrated)	14	505-0172	1	Nipple, Pipe – Close (2")
	399-0123	1	Pump (Not Illustrated)	15	415-0566-05	1	Pipe, Suction
	399-0124	1	Motor (Not Illustrated)	16	505-0120	1	Elbow, Pipe – Street (90 Deg) (3/8")
5	159-1469	1	Bracket, Mounting Generator Sets With 44" Wide Skid	17	505-0050	1	Elbow, Pipe – Street (90 Deg) (1/2")
	159-1218	1	Generator Sets With 50" Wide Skid	18	625-2141-01	1	Control Assembly, Day Tank (See Separate Page For Components)
6	821-5003-03	4	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")	19	821-5003-03	2	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
7	870-0212	13	Nut, Locking – Hex Flange Head (1/4-20)	20	502-0942	1	Elbow, Hose – Brass (90 Deg) (5/8" ID Hose x 3/8" Pipe)
				21	402-0610	6	Isolator, Vibration
				22	337-2402	1	Cable, Ground (5-1/2")
				23	505-0248	1	Elbow, Pipe – Street (45 Deg) (1/2")
				24	338-2442	1	Harness, Wiring Day Tank Control to Starter (2 Wire, 45") (TB1 to B1, GND)
					338-2397	1	Day Tank Control to Fuel Transfer Pump (5 Wire, 40") (P103 to TB1)

Fuel Tank Control



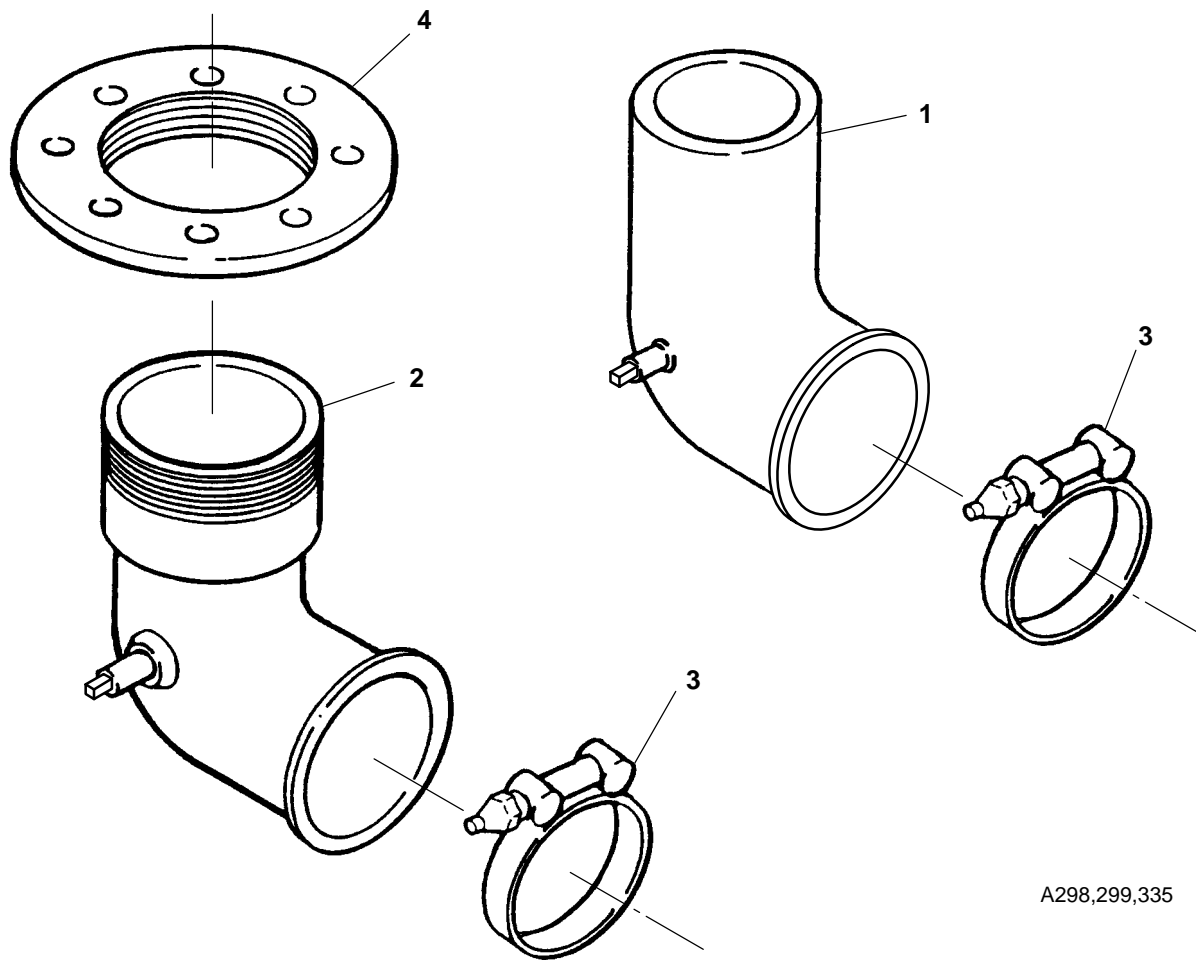
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	625-2141-01	1	Control, Fuel Tank – Complete (Includes Parts Listed Below)	10	300-3464	1	Board, Printed Circuit
1	319-0486	1	Box, Control	11	870-0458	4	Spacer, Board – Printed Circuit
2	319-0485	1	Cover, Box	12	338-2382	1	Harness, Wiring – Control Box
3	307-2677-02	1	Relay, Pump (K130)	13	815-0350	5	Screw, Self-Tapping – Slotted Hex Washer Head (#10-32 x 3/8")
4	322-0403-02	1	Light, Assembly, Indicator – 7 Light (Includes Wiring Harness)	14	812-0075	2	Screw, Machine – Round Head (#8-32 x 1/4")
5	322-0369-02	1	Lamp, Indicator – Replacement	15	815-0385	2	Screw, Machine – Round Head (#6-32 x 1/2")
6	308-0912	1	Switch, Rocker (On/Off/ Emergency Run) (S102)	16	332-2605	2	Jumper, Terminal
7	308-0852	1	Switch, Rocker (Reset/Off/Test) (S111)	17	331-0027	2	Connector, Romex
8	320-1653	1	Breaker, Circuit – DC (Single Pole) (CB107)	18	331-0042	1	Connector, Knockout
9	320-1654	1	Breaker, Circuit – AC (Double Pole) (CB101)	19	856-0002	1	Washer, Lock – EIT (#8) Grounding Stud
				20	860-0008	1	Nut, Hex (#8-32) Grounding Stud

Oil Pan Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater, Oil (300 Watt)	2			Heater, Oil (300 Watt, 480 Volt)
	333-0407-02	1	120 Volt		333-0407-05	1	
	333-0407-04	1	240 Volt				

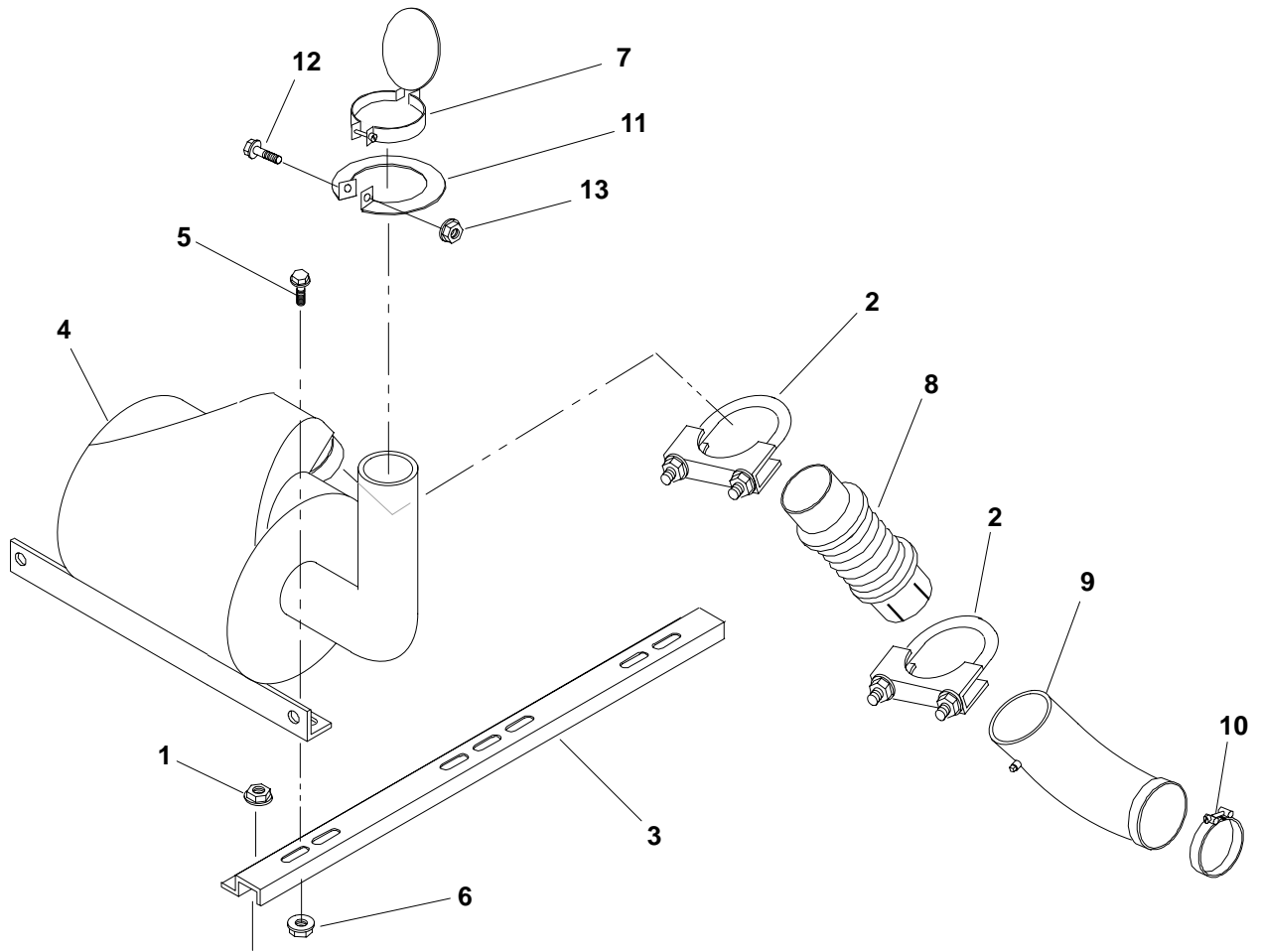
Exhaust Elbow



A298,299,335

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-1241	1	Elbow, Exhaust (5" OD Without Threads)	3	503-1575	1	Clamp, V-Band
2	155-2409	1	Elbow, Exhaust (5" OD With Threads)	4	155-0658	1	Flange, Companion (5") (Not Use On All Models)

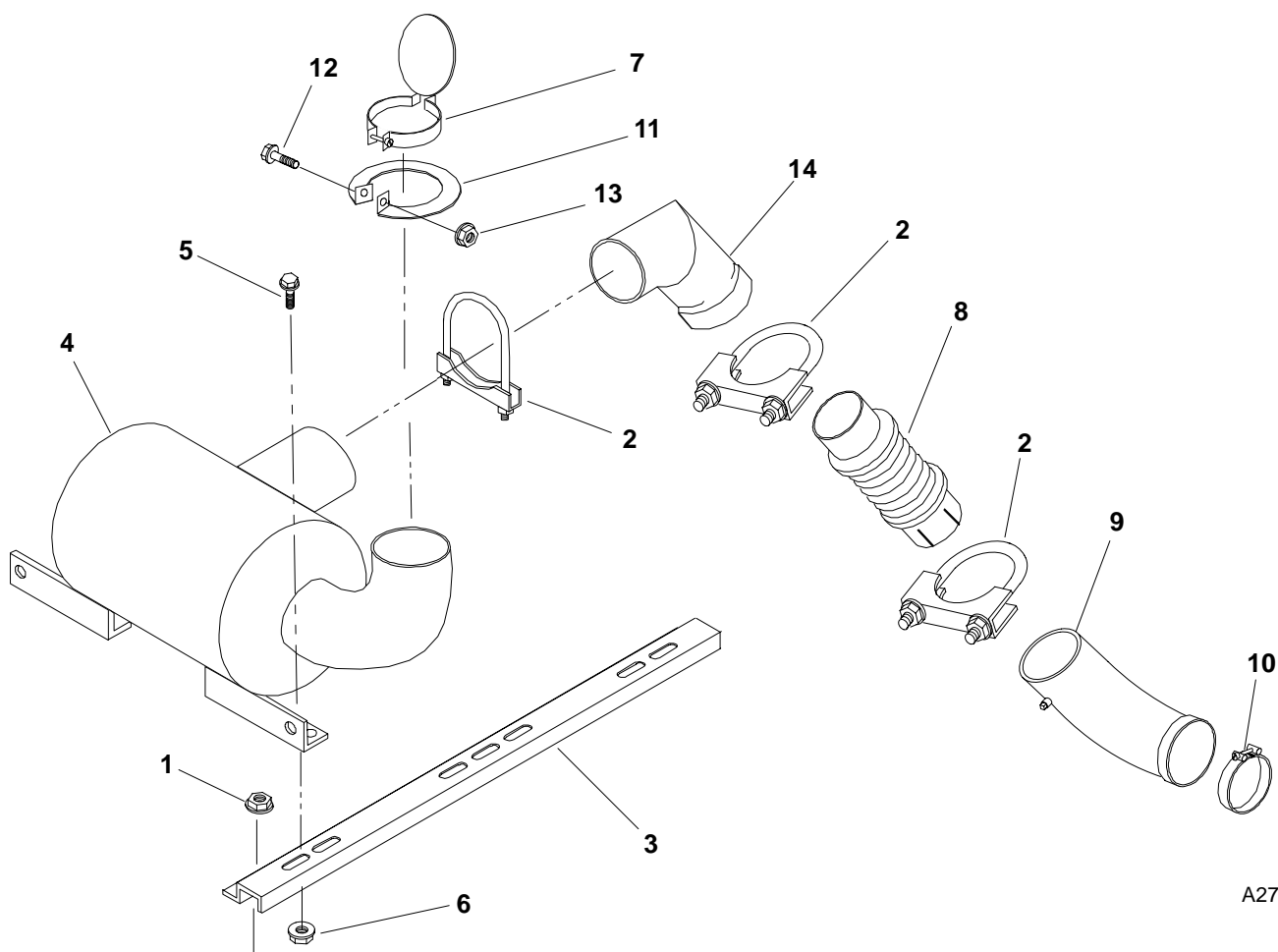
Muffler
DFBF, DFCB, DFCC Spec H Through M
DFCE Spec A



A076,276

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0257	4	Nut, Hex – Locking (5/16–18)	9	155-1241	1	Elbow, Exhaust
2	155-2159	2	Clamp, Muffler	10	503-1575	1	Clamp, V-Band
3	155-3159	2	Bracket, Mounting	11			Shield, Rain
4			Muffler		155-3059	1	DFBF, DFCB Spec H Through M
	155-2405	1	DFBF, DFCB Spec H Through M		155-3139	1	DFCE Spec A
	155-2406	1	DFCC Spec H Through M	12	821-5000-05	1	Screw, Cap – Hex Head – With Captive Washer (#10–32 x 1/2") DFBF, DFCB Spec H Through M, DFCE Spec A
	155-2983	1	DFCE Spec A				
5	821-0033	4	Screw, Cap – Hex Head (7/16–14 x 3/4")	13	870-0320	1	Nut, Locking (#10–32) DFBF, DFCB Spec H Through M, DFCE Spec A
6	870-0437	4	Nut, Hex – Locking (7/16–14)				
7			Cap, Rain				
	155-2062-06	1	DFBF, DFCB, DFCC Spec H Through M				
	155-2062-06	1	DFCE Spec A				
8			Tubing, Flexible				
	155-2407	1	DFBF, DFCB, DFCC Spec H Through M				
	155-3135	1	DFCE Spec A				

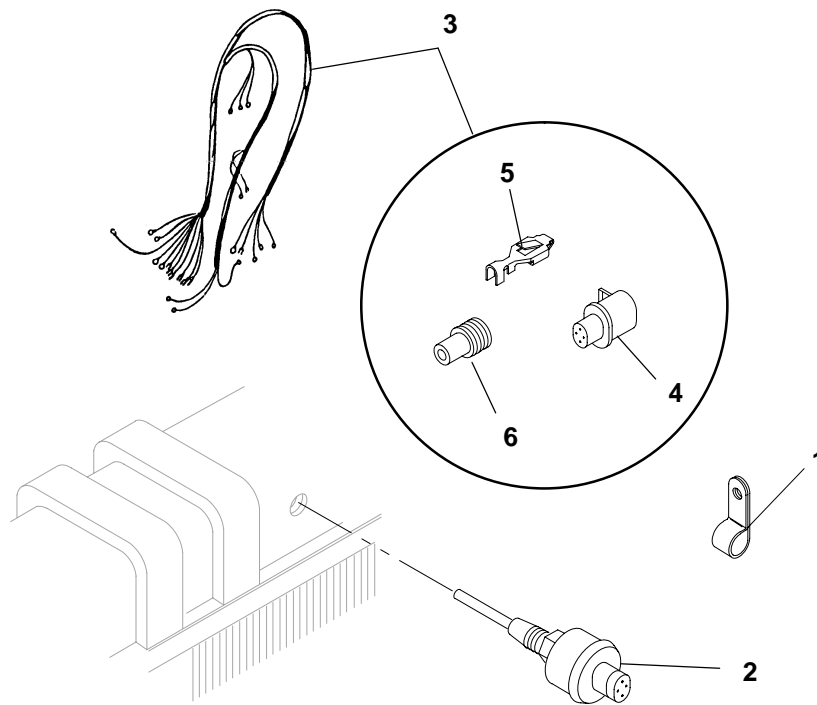
Muffler
DFBF, DFCB, DFCC Begin Spec N
DFCE Begin Spec B



A276

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0257	4	Nut, Hex – Locking (5/16-18)	9	155-1241	1	Elbow, Exhaust
2	155-2159	3	Clamp, Muffler	10	503-1575	1	Clamp, V-Band
3	155-3159	2	Bracket, Mounting	11	155-3139	1	Shield, Rain
4	155-3155	1	Muffler	12	821-5000-05	1	Screw, Cap – Hex Head – With Captive Washer (#10-32 x 1/2")
5	821-0033	4	Screw, Cap – Hex Head (7/16-14 x 3/4")	13	870-0320	1	Nut, Locking (#10-32)
6	870-0437	4	Nut, Hex – Locking (7/16-14)	14	155-3153	1	Elbow, Exhaust
7	155-2062-06	1	Cap, Rain				
8	155-3135	1	Tubing, Flexible				

Low Coolant Level Sender Without Continuously Monitored Low Coolant Level Generator Sets With Radiator Cooling

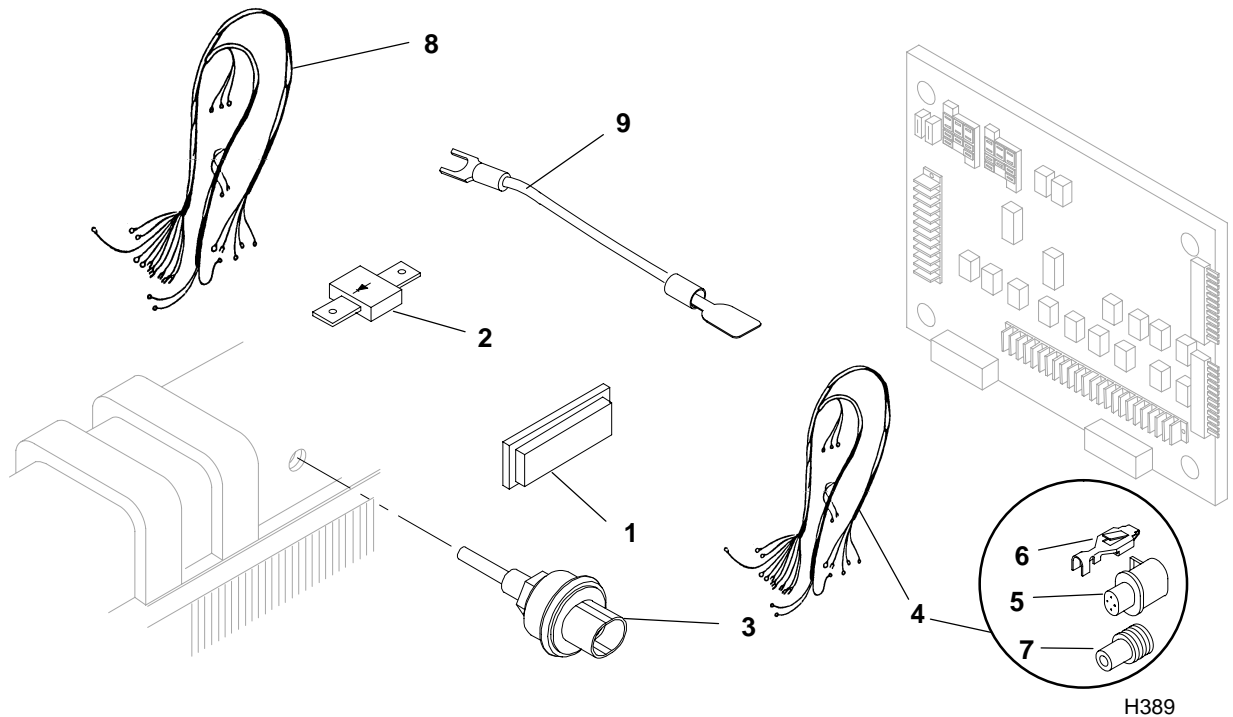


H389,527

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	193-0481	1	Sender Assembly – Low Coolant Level (Includes Parts Marked *) DFBF, DFCB, DFCC Spec H Through S, DFCE Spec A Through C	4	323-1765	1	*# Connector, Housing – 4 Pin (S3) DFBF, DFCB, DFCC Spec H Through S, DFCE Spec A Through C
1	518-0548-15	1	Clamp, Wiring Harness (All Models and All Spec Letters)	5	323-1709	4	*# Socket, Contact – DFBF, DFCB, DFCC Spec H Through S, DFCE Spec A Through C
2	193-0468	1	* Sender, Low Coolant Level (S7) (All Models and All Spec Letters)	6	323-1708	4	*# Seal, Cable – DFBF, DFCB, DFCC Spec H Through S, DFCE Spec A Through C
3	338-3594	1	* Harness, Wiring – Pigtail – Low Coolant Level Sender (Includes Parts Marked #) DFBF, DFCB, DFCC Spec H Through S, DFCE Spec A Through C				

* – Parts Included In 193-0481 Low Coolant Level Sender Assembly
– Parts Included In 338-3594 Pigtail Wiring Harness

**Low Coolant Level Sender
With Continuously Monitored Low Coolant Level
12 Light Indicator Controls
Generator Sets With Radiator Cooling
DFBF, DFCB, DFCC Begin Spec J
DFCE**



H389

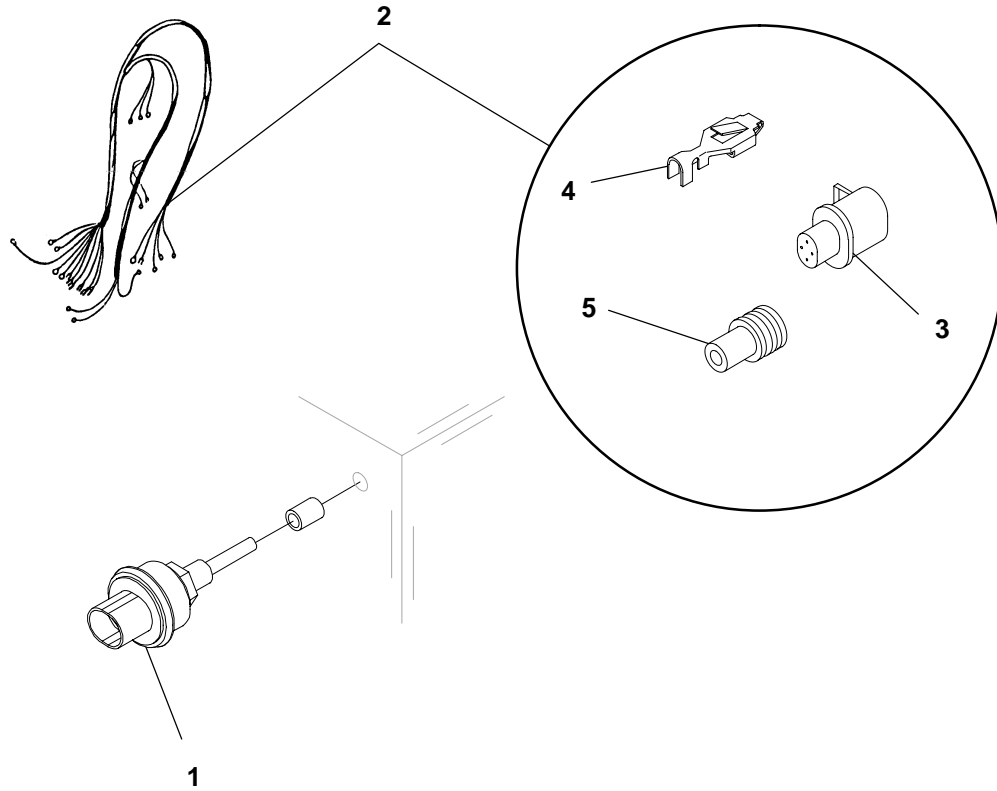
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	193-0481	1	Sender Assembly – Low Coolant Level (Includes Parts Marked *) DFBF, DFCB, DFCC Spec J Through S, DFCE Spec A Through C	5	323-1765	1	*#+ Connector, Housing – 4 Pin (S3)
1	322-0431-07	1	Lens, Indicator Light (Marked "Coolant Lo")	6	323-1709	4	*#+ Socket, Contact
2	357-0030	1	Diode (6 Amp)	7	323-1708	4	*#+ Seal, Cable
3	193-0468	1	* Sender, Low Coolant Level (S7)	8	338-3035-02	1	Harness, Wiring (3 Wire) (308") (S7 to A11) DFBF, DFCB, DFCC Spec J Through S, DFCE Spec A Through C
4			Harness, Wiring – Low Coolant Level Sender	9	226-4661-02	2	Lead (4") (No Markings) (A11TB2-1 to Diode and A11TB2-16 to Diode)
	338-3594	1	* DFBF, DFCB, DFCC Spec J Through S, DFCE Spec A Through C (Pigtail – 6") (S3 to S3) (Includes Parts Marked #)				
	338-3763-02	1	DFBF, DFCB, DFCC Spec T, DFCE Spec D (309") (S7 to A11) (Includes Parts Marked +)				

* – Parts Included In 193-0481 Low Coolant Level Sender Assembly

– Parts Included In 338-3594 Pigtail Wiring Harness

+ – Parts Included In 338-3763-02 Wiring Harness

**Low Coolant Level Sender
Generator Sets With Heat Exchanger Cooling
DFBF, DFCB, DFCC**

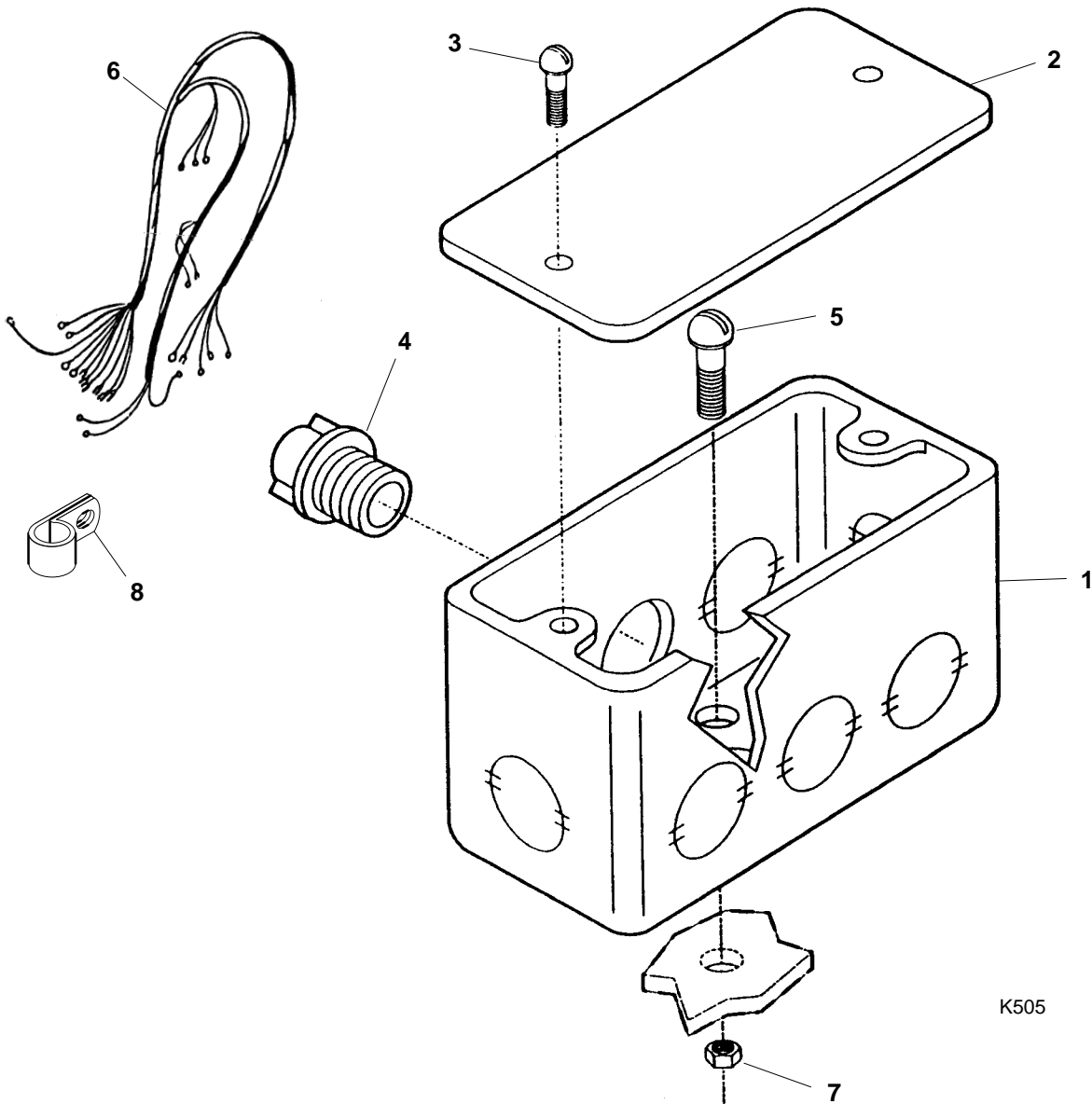


H389,527

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	193-0481	1	Sender Assembly – Low Coolant Level (Includes Parts Marked *) DFBF, DFCB, DFCC Spec H Through S	3	323-1765	1	*# Connector, Housing – 4 Pin (S3) DFBF, DFCB, DFCC Spec H Through S
1	193-0468	1	* Sender, Low Coolant Level (S7) All Models and All Spec Letters	4	323-1709	4	*# Socket, Contact – DFBF, DFCB, DFCC Spec H Through S
2	338-3594	1	* Harness, Wiring – Low Coolant Level Sender (Pigtail – 6") (Includes Parts Marked #) DFBF, DFCB, DFCC Spec H Through S	5	323-1708	4	*# Seal, Cable – DFBF, DFCB, DFCC Spec H Through S

* – Parts Included In 193-0481 Low Coolant Level Sender Assembly
– Parts Included In 338-3594 Pigtail Wiring Harness

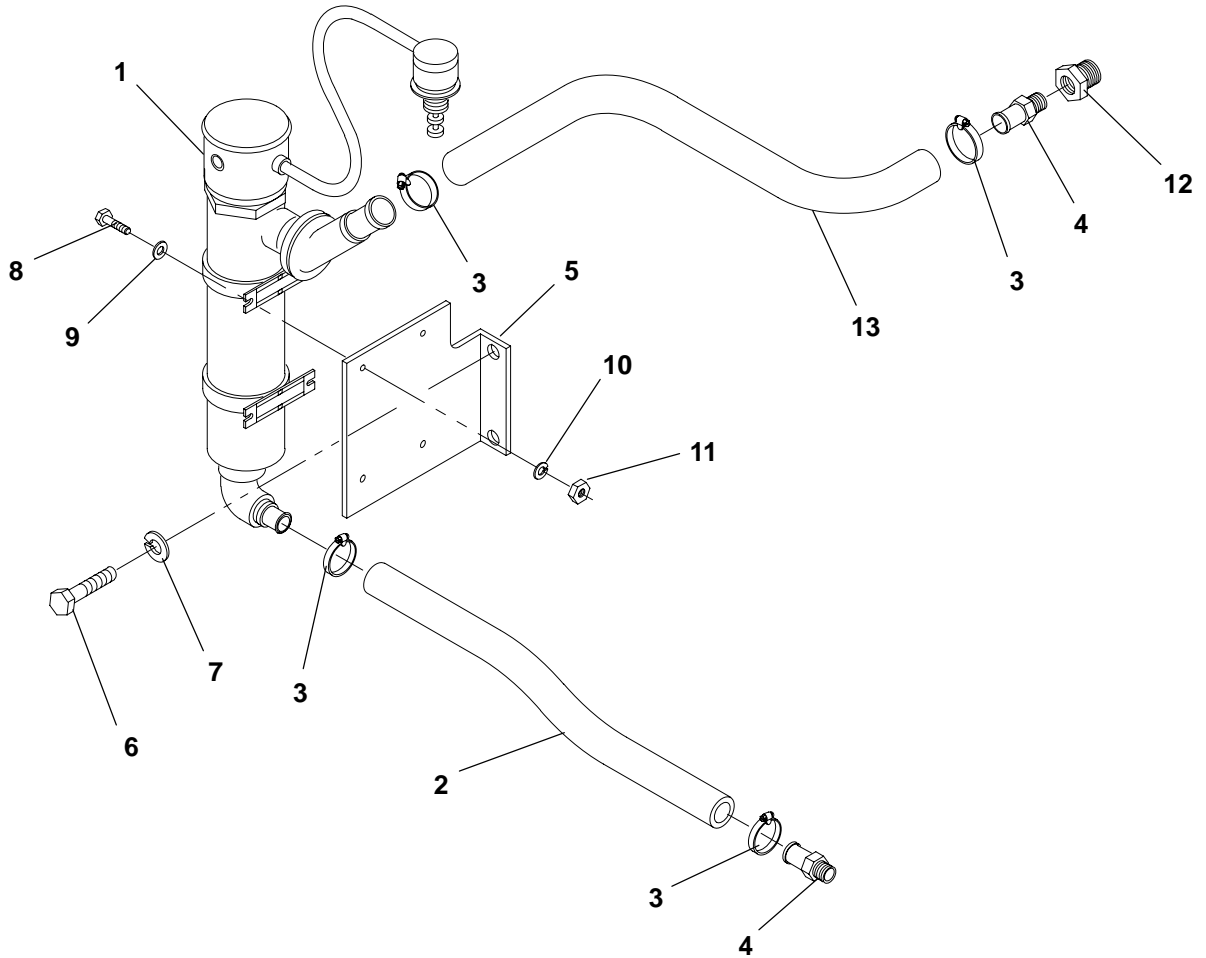
**Junction Box
Engine Coolant Heater
DFBF, DFCB, DFCC Spec H Through L**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	330-0005	1	Box, Junction
2	330-0004	1	Cover, Junction Box
3	812-0079	2	Screw, Machine – Round Head (#8–32 x 1/2")
4	331-0027	3	Connector, Knockout
5	813-0105	2	Screw, Cap – Hex Head (#10–32 x 1")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	338-2446	1	Harness, Wiring – Junction Box to Coolant Heater (3 Wire)
7	870-0131	2	Nut, Lock – W/EIT (#10–32)
8	518-0548-08	2	Clamp, Retaining

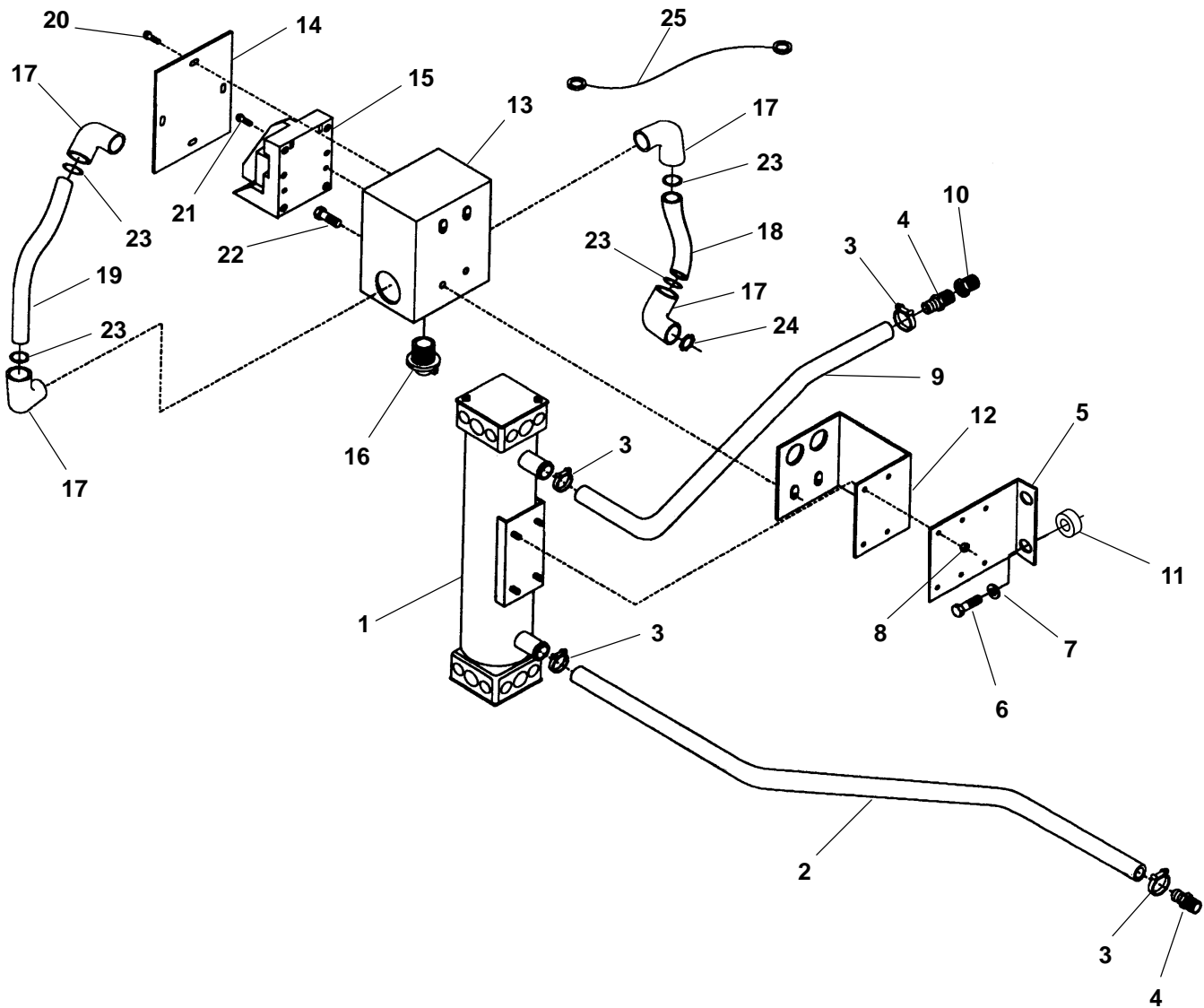
**Coolant Heater
2500 Watts
DFBF, DFCB, DFCC Spec H Through L**



H495

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0583-01	1	Heater Assembly, Coolant (120, 208, 240 Volts) Includes Service Replacement Parts Indented Below	5	130-3520	1	Bracket, Mounting
	333-0583-02	1	Harness	6	800-0130	2	Screw, Cap – Hex Head (5/8–11 x 1")
	333-0583-03	1	Thermostat	7	850-0070	2	Washer, Lock – Spring (5/8")
	333-0583-04	1	Element	8	800-0006	4	Screw, Cap – Hex Head (1/4–20 x 7/8")
	333-0583-05	1	Outlet Assembly	9	526-0018	4	Washer, Flat (1/4")
2	503-1779	–	Hose – Bulk (1" ID) (Order By The Foot – 4 Feet Required)	10	850-0040	4	Washer, Lock – Spring (1/4")
3	503-1872-01	4	Clamp, Hose	11	862-0001	4	Nut, Hex (1/4–20)
4	502-0971	2	Connector, Hose (1" Hose to 3/4" Pipe)	12	505-0129	1	Bushing, Pipe – Reducer (1" To 3/4")
				13	503-1779	–	Hose – Bulk (1" ID) (Order By The Foot – 2 Feet Required)

Coolant Heater
4000 Watts
DFBF, DFCB, DFCC Spec H Through L



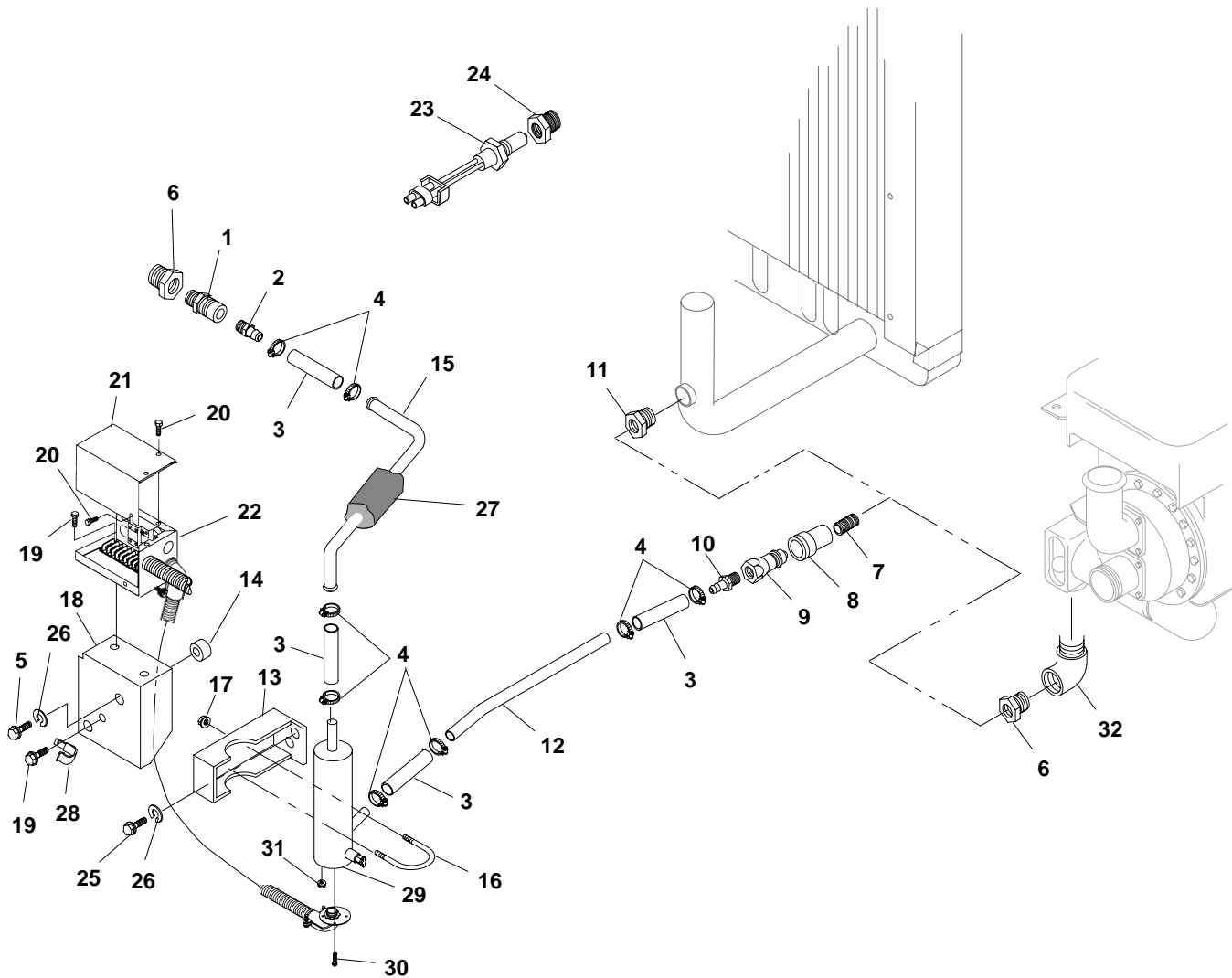
001-058

Coolant Heater
4000 Watts
DFBF, DFCB, DFCC Spec H Through L

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	179-2661-S0	1	# Relay Assembly, Heater (Includes Parts Marked *)	11	370-4040	4	Spacer – Sets With Model HC5 Generator
1			Heater Assembly, Coolant (Includes Thermostat and Parts Marked #)	12	130-4083	1	** Bracket, Mounting
	333-0512-02	1	120 Volt	13	130-4079	1	** Box, Relay
	333-0512-01	1	208, 240, 480 Volt	14	130-4082	1	** Cover, Box
	333-0468	1	Thermostat, Heater (Service Replacement)	15	307-2762	1	** Relay, Power
2	503-1779	–	Hose – Bulk (1" ID) (Order By The Foot – 4 Feet Required)	16	331-0027	1	** Connector, Romex (3/8")
3	503-1872-01	4	Clamp, Hose	17	331-0010	4	** Connector, Elbow (1/2" x 90 Deg)
4	502-0971	2	Connector, Hose (1" Hose to 3/4" Pipe)	18	331-0531-01	1	** Conduit, Flexible (5-5/16")
5	130-3719	1	Bracket, Mounting	19	331-0531-02	1	** Conduit, Flexible (11-1/2")
6			Screw, Cap – Hex Head	20	813-0100	4	** Screw, Machine – Round Head (#10-32 x 1/2")
	800-0130	2	Sets With Model HC4 Generator (5/8-11 x 1")	21	813-0103	2	** Screw, Machine – Round Head (#10-32 x 3/4")
	800-0135	2	Sets With Model HC5 Generator (5/8-11 x 2-1/4")	22	821-0010	2	** Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
7	850-0070	2	Washer, Lock – Spring (5/8")	23	331-0533	4	** Bushing, Anti-Short (1/2")
8	870-0212	4	# Nut, Locking – Hex Head (1/4-20)	24	331-0532	1	** Locknut, Sealing (1/2")
9	503-1779	–	Hose – Bulk (1" ID) (Order By The Foot – 2 Feet Required)	25			Lead, Power Relay
10	505-0129	1	Bushing, Pipe – Reducer (1" to 3/4")		226-4390-01	1	** 23" (1L1 to K3)
					226-4390-02	1	** 17" (K6 to TH1L1)
					226-4390-03	1	** 35" (TH HTR to HTR)

* – Parts Included In 179-2661-S0 Relay Assembly
– Parts Included In 333-0512-01, -02 Coolant Heater Assemblies

Coolant Heater
DFBF, DFCB, DFCC Begin Spec M
DFCE With Radiator or Remote Radiator Cooling

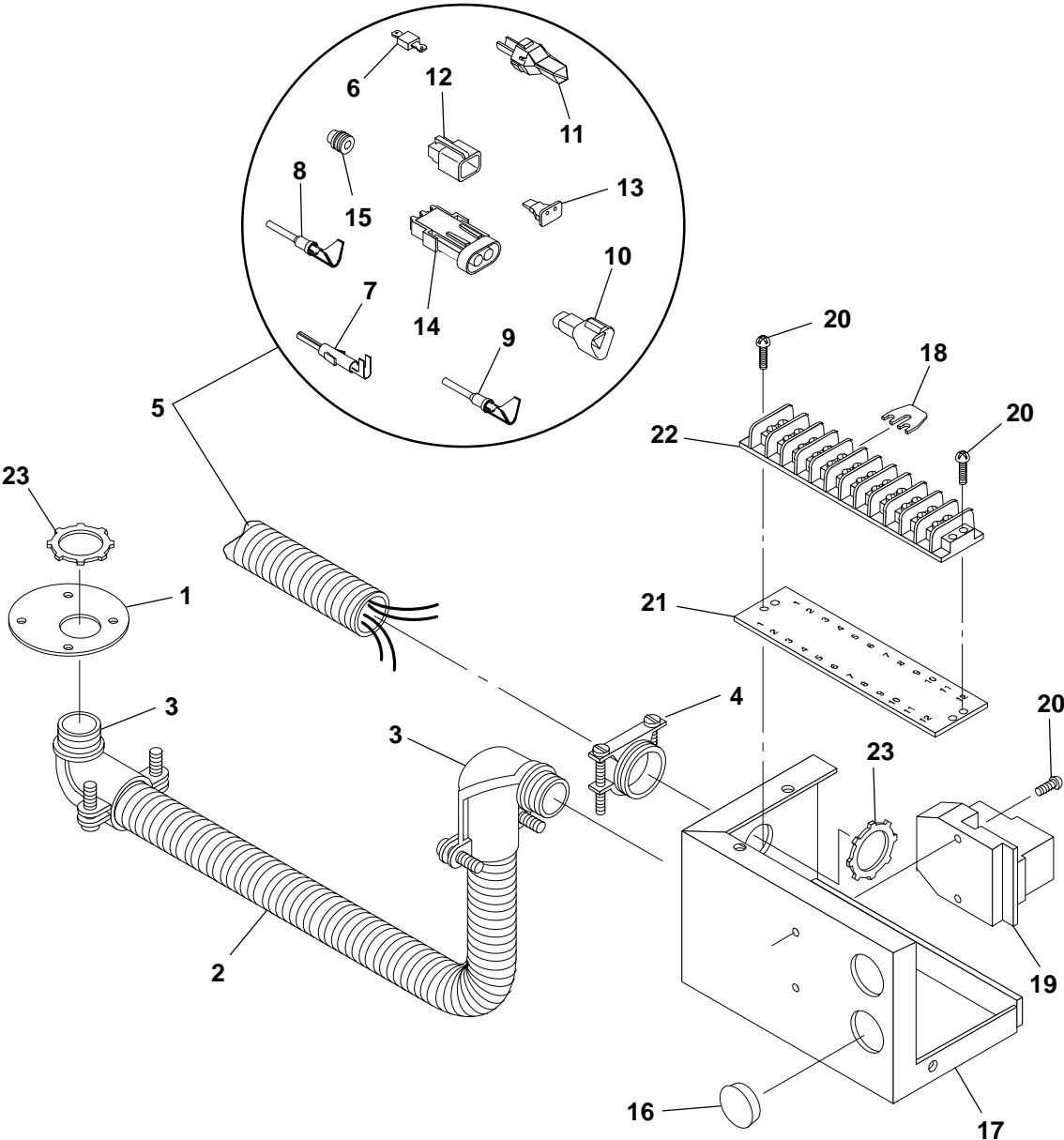


H556,557

Coolant Heater
DFBF, DFCB, DFCC Begin Spec M
DFCE With Radiator or Remote Radiator Cooling

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-1259	1	Coupler, Coolant Heater (1/2")	17	870-0550-09	2	Nut, Hex Flange (3/8-16)
2	502-1257	1	Connector, Hose Barb (For 3/4" ID Hose)	18	319-2915	1	Bracket, Terminal Block
3	503-1634-01	4	Hose, Rubber (3/4" ID x 4")	19	821-5004-02	3	Screw, Self-Locking - Hex Washer Head (3/8-16 x 3/4")
4	503-1136	8	Clamp, Hose	20	821-5002-03	4	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2")
5	800-0132	2	Screw, Cap - Hex Head (5/8-11 x 1-1/2")	21	319-2815	1	Cover, Control
6	505-0022	1	Bushing, Reducer (1" to 1/2") Sets With Radiator or Remote Radiator Cooling	22	-	1	Control Assembly, Coolant Heater (See Separate Page For Components)
	505-0022	2	Sets With Heat Exchanger Cooling	23	309-0649	1	Thermostat (S11)
7	505-0100	1	Nipple, Pipe (1/2")	24	505-0019	1	Bushing, Reducer (1/2" to 3/8")
8	502-1260	1	Coupler, Coolant Heater	25	800-0130	2	Screw, Cap - Hex Head (5/8-11 x 1")
9	502-1261	1	Nipple, Coolant Heater (1/2")	26	850-0070	4	Washer, Lock - Spring (5/8")
10	502-0827	1	Connector, Hose Barb (For 3/4" ID Hose)	27	128-0108	-	Insulation - Bulk (3/4" ID) (Order By The Foot - 2 Feet Required)
11	505-0021	1	Bushing, Reducer (3/4" to 1/2") Sets With Radiator or Remote Radiator Cooling	28	332-2634	1	Clamp, "J"
12			Tube, Coolant Heater (Lower)	29			Heater, Coolant (HTR)
	130-4588	1	Sets With Radiator or Remote Radiator Cooling		333-0633-01	1	4990 Watt
					333-0633-02	1	6420 Watt
	130-4603	1	Sets With Heat Exchanger Cooling	30	815-0539	3	Screw, Machine - Round Head - Cross Recessed W/IT (#8-32 x 5/8")
13	130-4586	1	Bracket, Coolant Heater	31	870-0131	3	Nut, Hex - W/ET (#10-32)
14	370-4040	2	Spacer	32	505-0003	1	Elbow, Pipe - Street (1" x 90 Deg) Sets With Heat Exchanger Cooling
15	130-4587	1	Tube, Coolant Heater (Upper)				
16	155-3021	1	Clamp, Coolant Heater				

Coolant Heater Control
DFBF, DFCB, DFCC Begin Spec M
DFCE With Radiator or Remote Radiator Cooling

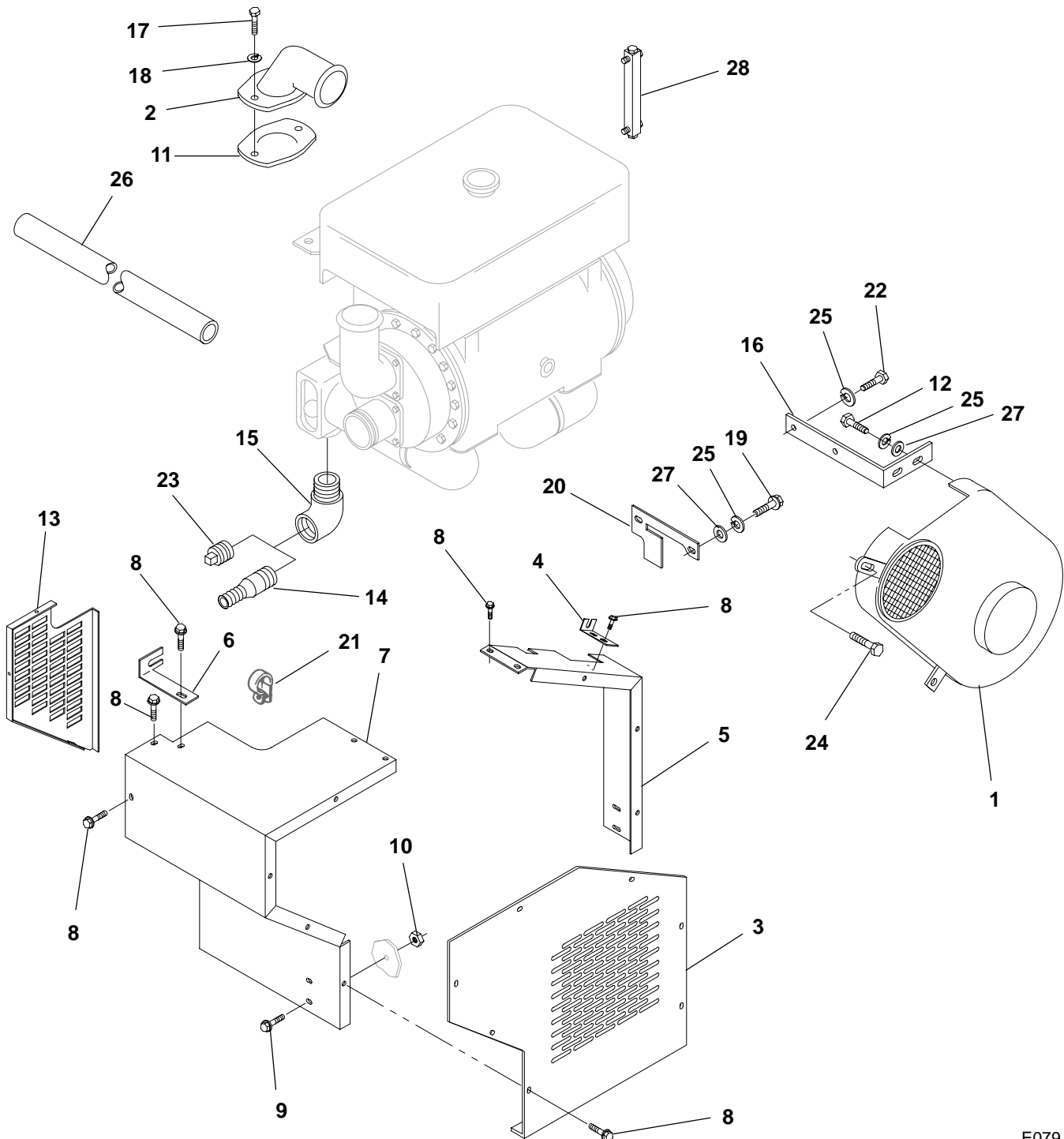


Coolant Heater Control
DFBF, DFCB, DFCC Begin Spec M
DFCE With Radiator or Remote Radiator Cooling

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4552	1	Cover, Coolant Heater	11	323-1502	1	*Wedge, Receptacle (Used With J3)
2	338-3335-03	1	Harness, Wiring – AC – Coolant Heater (From Coolant Heater Bottom To Coolant Heater Control Box) (Includes Conduit Connectors) (33")	12	323-1504	1	*Connector, Plug (2 Pin) (P4)
3	331-0554	2	Connector, Conduit – 90 Deg (3/4")	13	323-1500	1	*Wedge, Plug (Used With P4)
4	331-0042	1	Connector, Wiring – DC – Romex (3/4")	14	323-1652	1	*Connector, Plug – 2-Way (2 Pin) (P11)
5	338-3384	1	Harness, Wiring – DC – Engine Heater (From Coolant Heater Control Box To Engine And Main Engine Harness) (Includes Parts Marked *)	15	323-1445	2	*Seal, Cable (Used With P11)
6	357-0030	1	*Rectifier (6 Amp) (Located at K11 end of harness)	16	517-0138-02	3	Plug, Hole (Fits 1-1/8" Hole)
7	323-1718	2	*Pin, Contact (Used In P11)	17	319-2814	1	Box, Terminal
8	323-1491	3	*Pin, Contact (Used In J3)	18	332-3440	1	Jumper, Terminal
9	323-1492	2	*Socket, Contact (Used In P4)	19	307-2859	1	Relay, Power – 24VDC (K11)
10	323-1494	1	*Connector, Receptacle (3 Pin) (J3)	20	815-0447	4	Screw, Machine – Round Head – Cross Recessed W/IT – Thread Forming (#8-32 x 3/4")
				21	332-1469	1	Strip, Marker
				22	332-1468	1	Block, Terminal – 12 Place (TB1)
				23	331-0555	2	Nut, Connector Lock (3/4-14)

* – Parts Included in 338-3384 DC Engine Heater Wiring Harness

Heat Exchanger DFBF, DFCB, DFCC

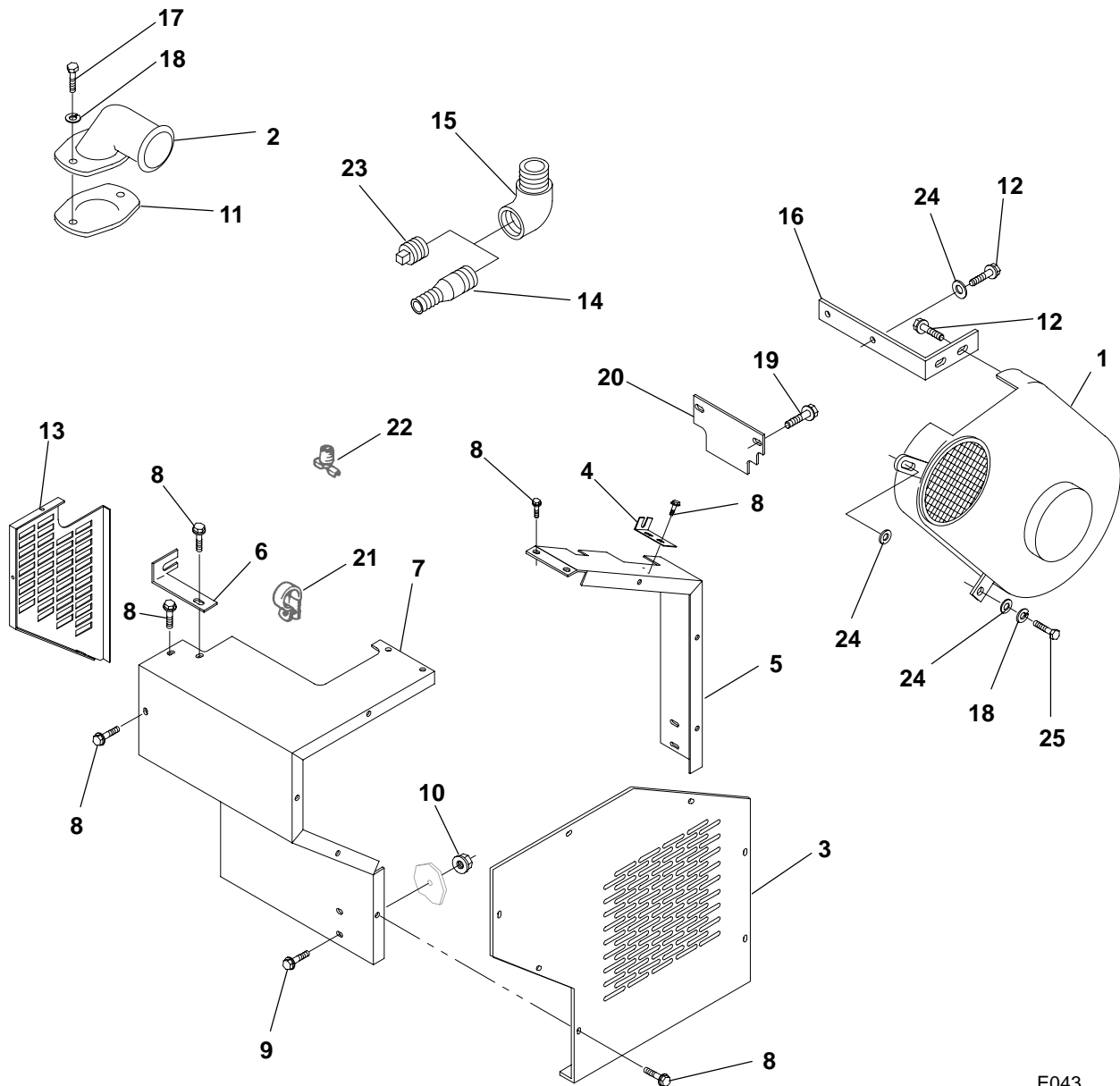


E079

Heat Exchanger DFBF, DFCB, DFCC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3311	1	Guard, Belt	14	505-0759	1	Nipple, Combination (1" Pipe To 1" Hose) (Generator Sets With Engine Coolant Heater) Spec H Through L
2	130-3180	1	Connection, Radiator				
3	130-4667	1	Plate, Belt Guard				
4	130-3564	1	Bracket, Belt Guard				
5	130-4668	1	Guard, Belt	15	505-0003	1	Elbow, Pipe – Street (1" x 90 Deg) Spec H Through L
6	130-3563	1	Bracket, Belt Guard	16	130-3310	1	Brace, Belt Guard
7	130-4672	1	Guard, Belt	17	800-0050	2	Screw, Cap – Hex Head (3/8-16 x 1")
8	821-5002-03	14	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	18	850-0050	2	Washer, Lock – Spring (3/8")
9			Screw, Self-Locking – Hex Washer Head	19	821-0028	2	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1/2")
	821-0020	2	Spec H Through L (5/16-18 x 7/8")	20	130-4043	1	Plate, Cover
	821-5003-05	2	Begin Spec M (5/16-18 x 1")	21	518-0633	1	Clamp, "J" – Spec H Through L
10			Nut, Locking – Hex Head (5/16-18)	22	800-0209	2	Screw, Cap – Hex Head (3/8-16 x 1")
	870-0257	2	Spec H Through L – Hex Head	23	505-1380	1	Plug, Pipe (Generator Sets Without Engine Coolant Heater)
	870-0550-07	2	Begin Spec M – Flange Head	24	800-0052	1	Screw, Cap – Hex Head (3/8-16 x 1-1/2")
11	130-3184	1	Gasket, Connection	25	850-0103	6	Washer, Lock – Spring (3/8")
12	800-0049	2	Screw, Cap – Hex Head (3/8-16 x 7/8")	26	895-0296	2	Tubing, Glass Fiber (7/8" ID x 20")
13			Guard, Belt	27	526-0346	4	Washer, Flat (3/8")
	130-3554	1	Spec H Through L	28	130-3314-01	1	Gauge, Sight
	130-4729	1	Begin Spec M				

Remote Radiator DFBF, DFCB, DFCC Spec H

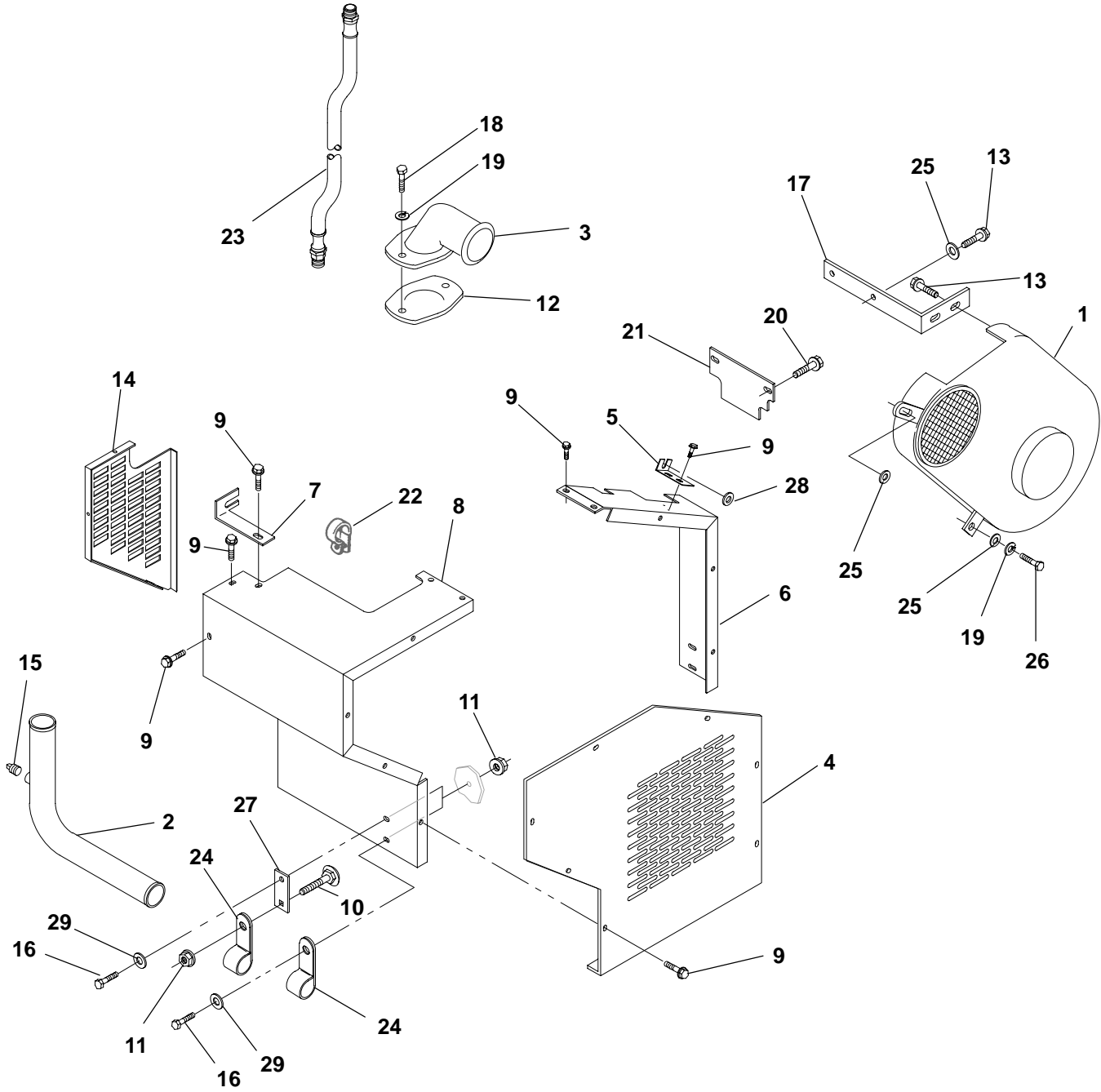


E043

Remote Radiator **DFBF, DFCB, DFCC Spec H**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3311	1	Guard, Belt	15	505-0003	1	Elbow, Pipe – Street (1" x 90 Deg)
2	130-3180	1	Connection, Radiator	16	130-3310	1	Brace, Belt Guard
3	130-4667	1	Plate, Belt Guard	17	800-0050	2	Screw, Cap – Hex Head (3/8-16 x 1")
4	130-3564	1	Bracket, Belt Guard	18	850-0050	3	Washer, Lock – Spring (3/8")
5	130-4668	1	Guard, Belt	19	821-0028	2	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1/2")
6	130-3563	1	Bracket, Belt Guard	20	130-3343	1	Plate, Cover
7	130-4672	1	Guard, Belt	21	518-0633	1	Clamp, "J"
8	821-0010	14	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	22	504-0005	1	Cock, Drain (1/8")
9	821-0020	2	Screw, Self-Locking – Hex Washer Head (5/16-18 x 7/8")	23	505-1380	1	Plug, Pipe (Generator Sets Without Engine Coolant Heater)
10	870-0257	2	Nut, Locking – Hex Head (5/16-18)	24	526-0029	3	Washer, Flat (3/8")
11	130-3184	1	Gasket, Connection	25	800-0053	1	Screw, Cap – Hex Head (3/8-16 x 1-3/4")
12	821-0029	4	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")				
13	130-3554	1	Guard, Belt				
14	505-0759	1	Nipple, Combination (1" Pipe To 1" Hose) (Generator Sets With Engine Coolant Heater)				

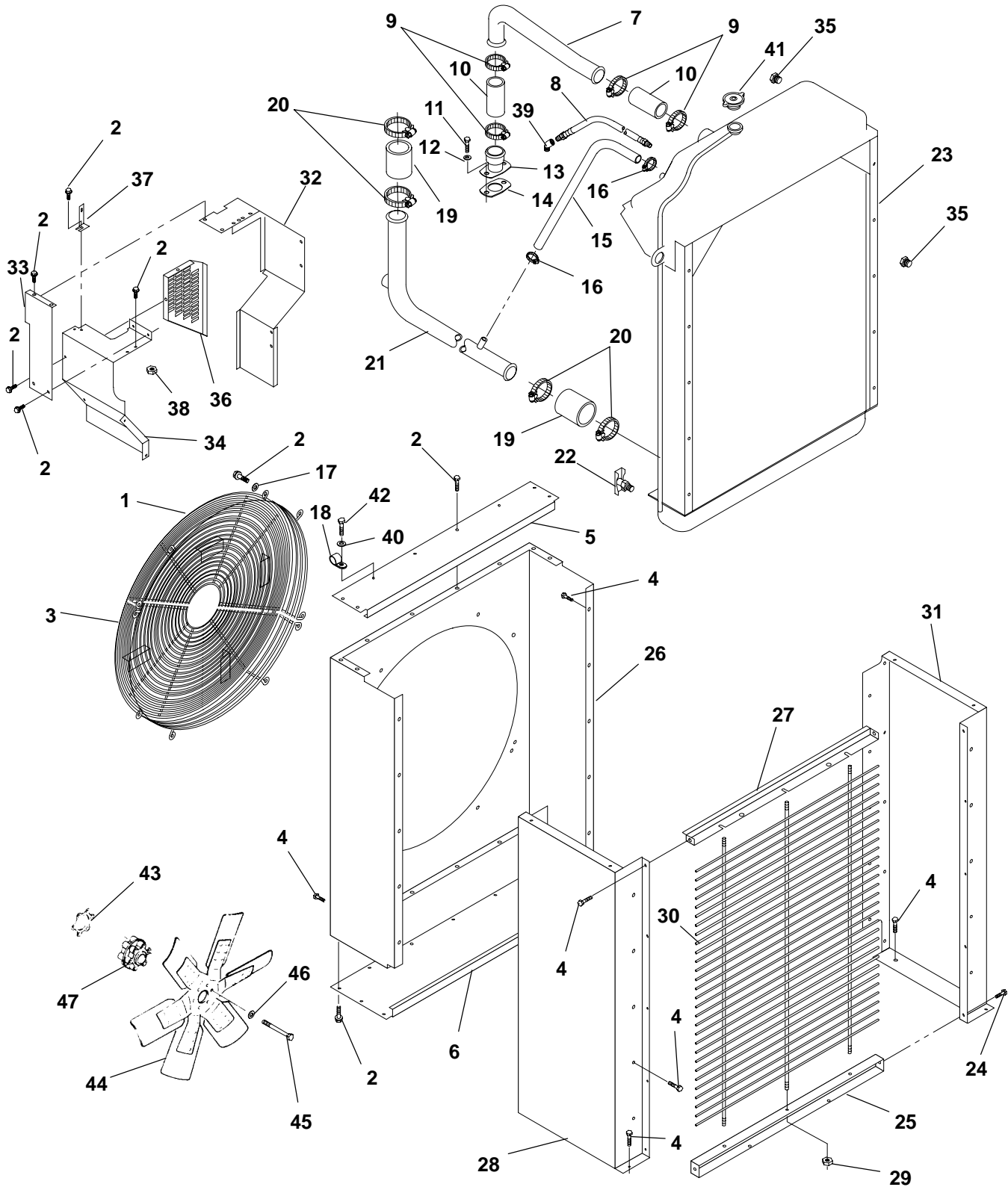
Remote Radiator DFBF, DFCB, DFCC Begin Spec J



**Remote Radiator
DFBF, DFCB, DFCC Begin Spec J**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3311	1	Guard, Belt	16	800-0028	1	Screw, Cap – Hex Head (5/16-18 x 1")
2	130-4280	1	Tube, Outlet	17	130-3310	1	Brace, Belt Guard
3	130-3180	1	Connection, Radiator	18	800-0050	2	Screw, Cap – Hex Head (3/8-16 x 1")
4	130-4667	1	Plate, Belt Guard	19	850-0050	3	Washer, Lock – Spring (3/8")
5	130-3564	1	Bracket, Belt Guard	20	821-5004-01	2	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1/2")
6	130-4668	1	Guard, Belt	21	130-3343	1	Plate, Cover
7	130-3563	1	Bracket, Belt Guard	22	518-0633	1	Clamp, "J"
8	130-4666	1	Guard, Belt	23	501-0247	1	Line, Flexible (69")
9	821-5002-03	14	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	24	503-1816	1	Clamp, Retainer
10	816-0098	1	Bolt, Carriage (5/16-18 x 5/8") Begin Spec P	25	526-0399-19	3	Washer, Flat (3/8")
11			Nut, Flange Head (5/16-18) Spec J Through N	26	800-0052	1	Screw, Cap – Hex Head (3/8-16 x 1-1/2")
	870-0550-07	1	Begin Spec P	27	130-4675	1	Strap, Water Tube Outlet – Begin Spec P
	870-0550-07	2		28	526-0141	1	Washer, Flat (15/32" ID x 1-1/4" OD)
12	130-3184	1	Gasket, Connection	29	526-0054	2	Washer, Flat (5/16")
13	821-5004-02	4	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")				
14	130-4729	1	Guard, Belt				
15	505-0130	1	Plug, Pipe – Square Head (3/4-14)				

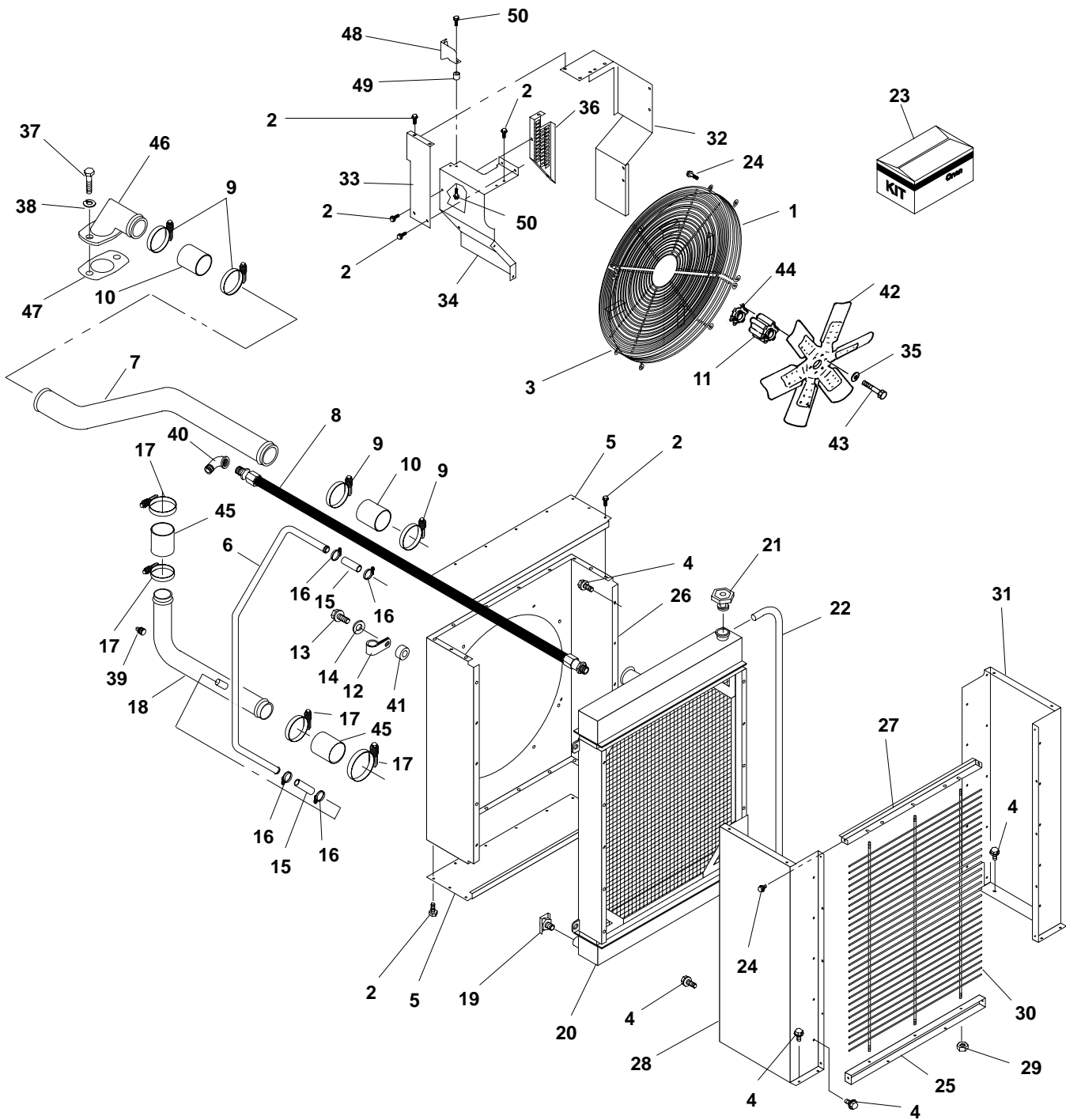
Radiator **DFBF, DFCB, DFCC Spec H and J**



Radiator **DFBF, DFCB, DFCC Spec H and J**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3521-01	1	Guard, Fan – Right Side	24	821-0016	14	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
2	821-0018	35	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")	25	130-3529	1	Support, Grille – Lower
3	130-3521-02	1	Guard, Fan – Left Side	26	130-3531	1	Shroud, Fan
4			Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")	27	130-3528	1	Support, Grille – Upper
	821-0029	34	Sets With 44" Wide Skid	28	130-3749-02	1	Guard, Radiator – Left Side
	821-0029	36	Sets With 50" Wide Skid		130-3532-02	1	Sets With 44" Wide Skid
5	130-4017	1	Shroud, Fan – Top	29	870-0550-09	12	Sets With 50" Wide Skid
6	130-4018	1	Shroud, Fan – Bottom	30	130-4385	1	Nut, Locking (3/8-16)
7	130-3524	1	Tube, Radiator – Upper	31			Grille
8	501-0551	1	Line, Flexible (29")		130-3749-01	1	Guard, Radiator – Right Side
9	503-1872-04	4	Clamp, Hose		130-3532-01	1	Sets With 44" Wide Skid
10	503-1379-02	2	Hose, Radiator (2-1/4" ID x 4-1/2")	32	130-4665	1	Sets With 50" Wide Skid
11	800-0050	2	Screw, Cap – Hex Head (3/8-16 x 1")	33	130-3535	1	Guard, Belt
12	850-0050	2	Washer, Lock – Spring (3/8")	34	130-3534	1	Guard, Belt
13	130-3342	1	Connection, Radiator	35	502-0153	2	Plug, Pipe – Hex Head (1/4-18)
14	130-3184	1	Gasket	36	130-3554	1	Guard, Belt
15	503-1467-09	1	Hose, Water (3/4" ID x 58")	37	130-3563	1	Bracket, Belt Guard
16	503-1136	2	Clamp, Hose	38	870-0212	1	Nut, Locking (1/4-20)
17	526-0115	10	Washer, Flat (5/16")	39	502-0053	1	Elbow, Street – 45 Deg (1/8")
18	518-0548-29	1	Clip, Retainer	40	526-0018	1	Washer, Flat (1/4")
19	503-1414-01	2	Hose, Radiator (2-3/4" ID x 4")	41	130-3721	1	Cap, Radiator (7 PSI)
20	503-1872-05	4	Clamp, Hose	42	821-0015	1	Screw, Self-Locking – Hex Washer Head (1/4-20 x 3/4")
21	130-4268	1	Tube, Radiator – Lower	43	130-3193	1	Gasket, Spacer
22	504-0028	1	Cock, Drain (3/8-18)	44	130-4534	1	Fan – 6 Blade
23			Radiator	45	800-0061	6	Screw, Cap – Hex Head (3/8-16 x 3-3/4")
	130-3555	1	DFBF (1-1/2" Radiator Core)	46	526-0026	6	Washer, Flat (3/8")
	130-3527	1	DFCB, DFCC (3" Radiator Core)	47	130-4407-01	1	Spacer, Fan

Radiator **DFBF, DFCB, DFCC Begin Spec K**

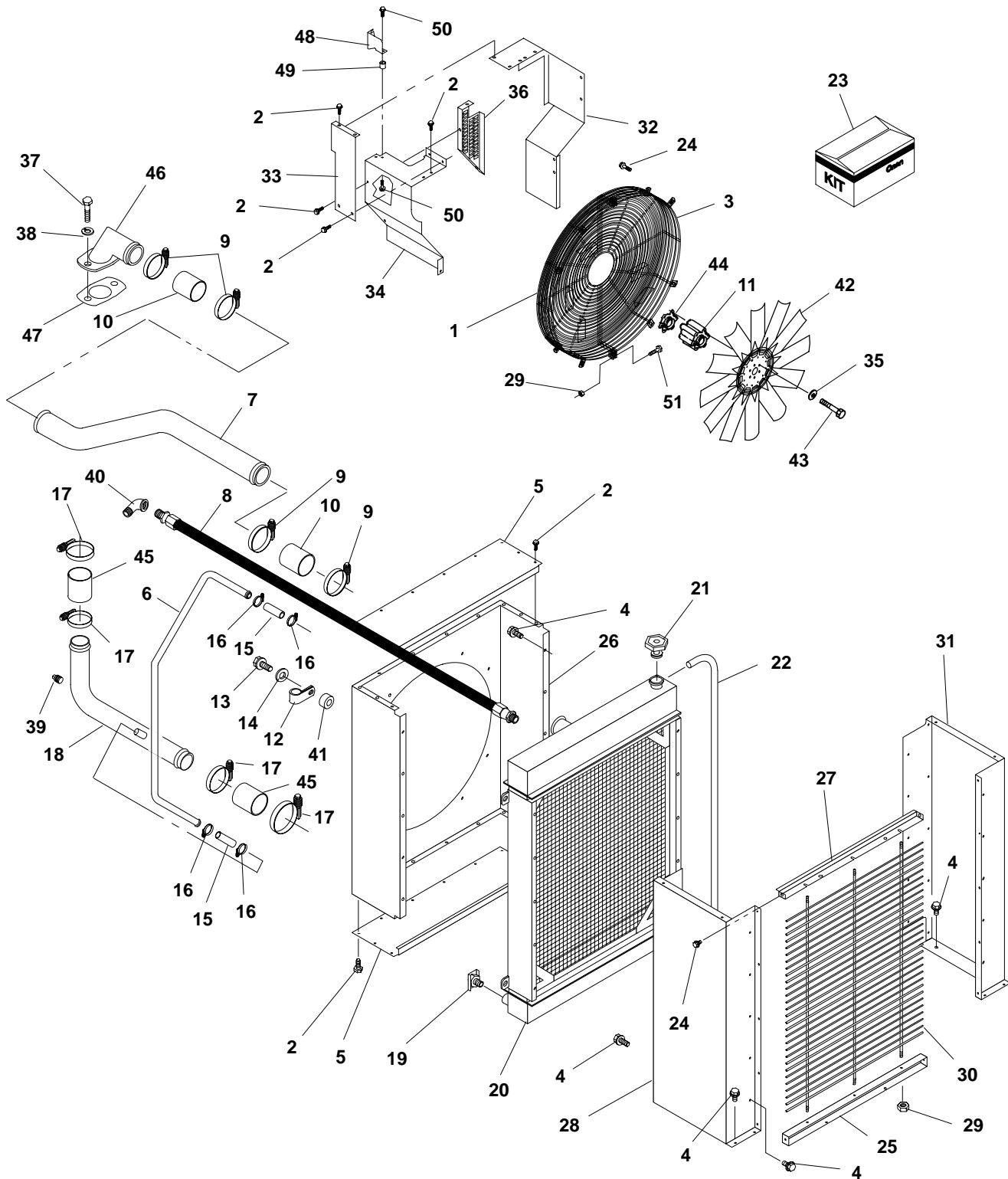


E074,082

Radiator **DFBF, DFCB, DFCC Begin Spec K**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3521-01	1	Guard, Fan (Right Side) (Top)	23	130-4362	1	Kit, Gauge – Safety Sight – Radiator (Includes Glass Bulb and O-Ring)
2	821-5002-04	34	Screw, Self-Locking – Hex Washer Head (1/4–20 x 5/8")	24	821-5003-03	14	Screw, Self-Locking – Hex Washer Head (5/16–18 x 3/4")
3	130-3521-02	1	Guard, Fan (Left Side) (Bottom)	25	130-4386	1	Support, Grille (Lower)
4			Screw, Self-Locking – Hex Washer Head (3/8–16 x 3/4")	26	130-4375	1	Wrapper, Fan Shroud
	821-5004-02	34	Sets With 44" Wide Skid	27	130-4387	1	Support, Grille (Upper)
	821-5004-02	36	Sets With 50" Wide Skid	28			Guard, Radiator (Left Side)
5	130-4373	2	Shroud, Fan		130-4384-02	1	Sets With 44" Wide Skid
6	130-4376	1	Tube, Radiator Fill		130-4383-02	1	Sets With 50" Wide Skid
7	130-4725	1	Tube, Radiator (Inlet)	29	870-0550-09	12	Nut, Self-Locking – Hex Head (3/8–16)
8	501-0551-01	1	Line, Flexible (3/4")	30	130-4385	1	Grille
9	503-1872-04	4	Clamp, Hose	31			Guard, Radiator (Right Side)
10	503-1379-02	2	Hose, Radiator (2–1/4" ID x 4–1/2")		130-4384-01	1	Sets With 44" Wide Skid
11	130-4407-01	1	Spacer, Fan		130-4383-01	1	Sets With 50" Wide Skid
12	518-0548-20	2	Clamp, Hose	32	130-4665	1	Guard, Belt (Right Side)
13	800-0052	2	Screw, Cap – Hex Head (3/8–16 x 1–1/2")	33	130-3535	1	Guard, Belt (L-Shaped)
14	526-0029	2	Washer, Flat (3/8")	34	130-4802	1	Guard, Belt (Left Side)
15	503-1634	2	Hose, Rubber (1" ID x 4")	35	526-0026	6	Washer, Flat (3/8")
16	503-1872-01	4	Clamp, Hose	36	130-4729	1	Guard, Belt (Back)
17	503-1872-05	4	Clamp, Hose	37	800-0050	2	Screw, Cap – Hex Head (3/8–16 x 1")
18	130-4379	1	Tube, Radiator (Outlet)	38	850-0050	2	Washer, Lock – Spring (3/8")
19	504-0028	1	Cock, Drain (3/8")	39	505-0130	1	Plug, Pipe – Square Head (3/4")
20			Radiator (Includes Radiator Cap, Overflow Hose, and Safety Sight Gauge Kit)	40	502-0053	1	Elbow, Street – 45 Deg (1/8")
			Spec K Through S	41	130-3660-01	2	Spacer
	130-4355	1	DFBF	42	130-4534	1	Fan, Radiator (6 Blade)
	130-4356	1	DFCB, DFCC	43	800-0061	6	Screw, Cap – Hex Head (3/8–16 x 3–3/4")
			Begin Spec T	44	130-3193	1	Gasket, Spacer
			DFBF	45	503-1414-02	2	Hose, Radiator (2–3/4" ID x 5–3/4")
	130-4355	1	2 Row Core	46	130-3180	1	Connection, Radiator
	130-4355-01	1	3 Row Core	47	130-3184	1	Gasket, Connection
	130-4355-01	1	DFCB	48	130-4671	1	Bracket, Mounting – Belt Guard
			DFCC	49	402-0070	1	Dampener, Vibration
	130-4355-01	1	3 Row Core	50	821-0014	2	Screw, Self-Locking – Hex Washer Head (5/16–18 x 1/2")
	130-4356	1	4 Row Core				
21	130-3588	1	Cap, Radiator				
22	503-1418	–	Hose – Bulk (1/4" ID) (Order By The Foot – 6 Feet Required)				

Radiator DFCE

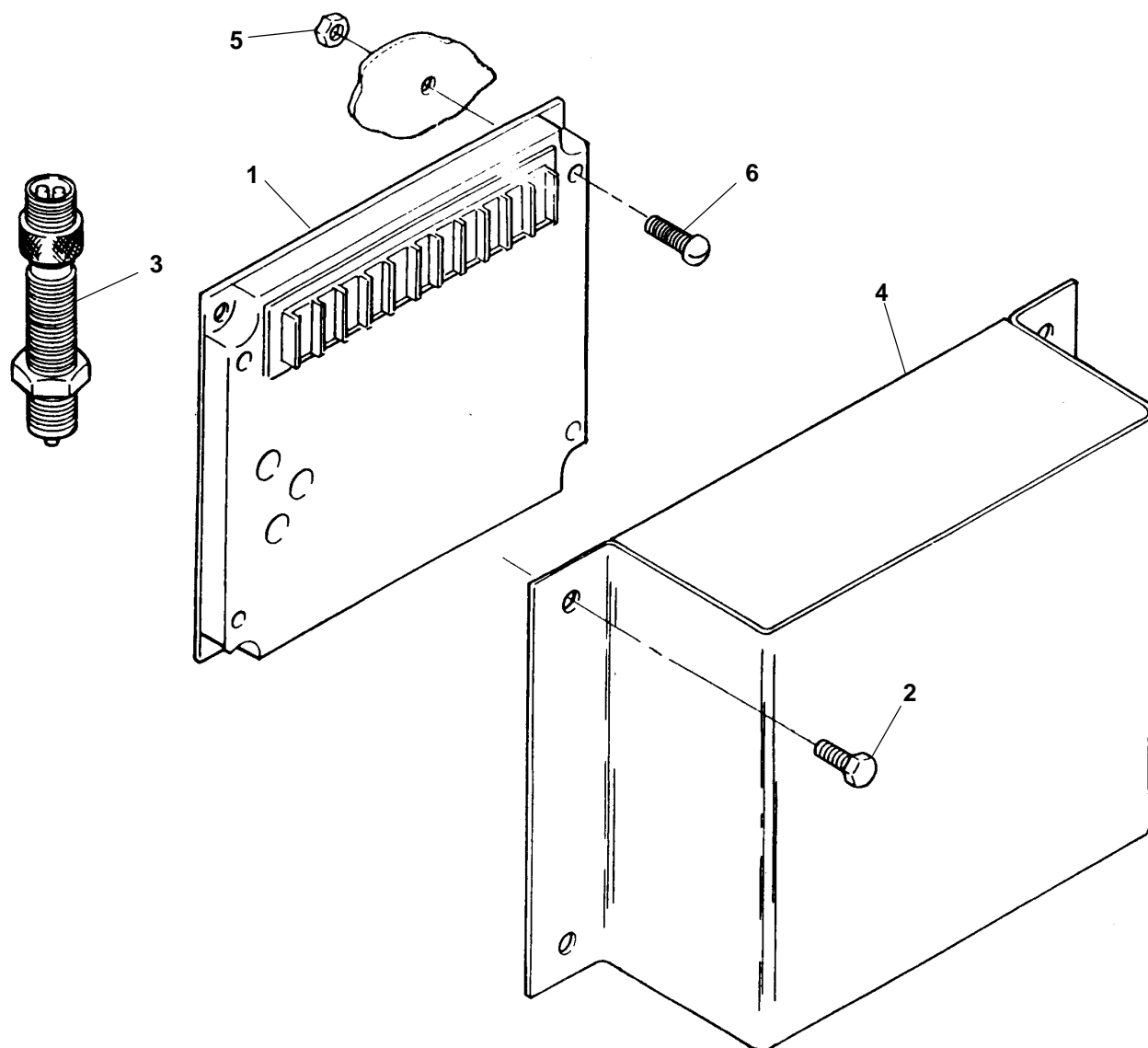


E074

Radiator DFCE

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4406-01	1	Guard, Fan (Left Side)	25	130-4398	1	Support, Grille (Lower)
2	821-5002-04	39	Screw, Self-Locking – Hex Washer Head (1/4–20 x 5/8")	26	130-4400	1	Wrapper, Fan Shroud
3	130-4406-02	1	Guard, Fan (Right Side)	27	130-4409	1	Support, Grille (Upper)
4			Screw, Self-Locking – Hex Washer Head (3/8–16 x 3/4")	28			Guard, Radiator (Left Side)
	821-5004-02	33	Sets With 44" Wide Skid		130-4402-02	1	Sets With 44" Wide Skid
	821-5004-02	35	Sets With 50" Wide Skid		130-4401-02	1	Sets With 50" Wide Skid
5	130-4403	2	Shroud, Fan	29	870-0550-09	23	Nut, Self-Locking – Hex Head (3/8–16)
6	130-4376	1	Tube, Radiator Fill	30	130-4399	1	Grille
7	130-4725	1	Tube, Radiator (Inlet)	31			Guard, Radiator (Right Side)
8	501-0551-01	1	Line, Flexible (34")		130-4402-01	1	Sets With 44" Wide Skid
9	503-1872-04	4	Clamp, Hose		130-4401-01	1	Sets With 50" Wide Skid
10	503-1379-02	2	Hose, Radiator (2–1/4" ID x 4–1/2")	32	130-4665	1	Guard, Belt (Right Side)
11	130-4407	1	Spacer, Fan	33	130-3535	1	Guard, Belt (L-Shaped)
12	518-0548-20	2	Clamp, Hose	34	130-4664	1	Guard, Belt (Left Side)
13	800-0052	2	Screw, Cap – Hex Head (3/8–16 x 1–1/2")	35	850-0050	6	Washer, Lock – Spring (3/8")
14	526-0029	2	Washer, Flat (3/8")	36	130-4729	1	Guard, Belt (Back)
15	503-1634	2	Hose, Rubber (1" ID x 4")	37	800-0050	2	Screw, Cap – Hex Head (3/8–16 x 1")
16	503-1872-01	4	Clamp, Hose	38	850-0050	2	Washer, Lock – Spring (3/8")
17	503-1872-05	4	Clamp, Hose	39	505-0130	1	Plug, Pipe – Square Head (3/4")
18	130-4379	1	Tube, Radiator (Outlet)	40	502-0053	1	Elbow, Street – 45 Deg (1/8")
19	504-0028	1	Cock, Drain (3/8")	41	130-3660-01	2	Spacer
20	130-4369	1	Radiator (Includes Radiator Cap, Overflow Hose, and Safety Sight Gauge Kit)	42	130-4408	1	Fan, Radiator (12 Blade)
21	130-3588	1	Cap, Radiator	43	800-0061	6	Screw, Cap – Hex Head (3/8–16 x 3–3/4")
22	503-1418	–	Hose – Bulk (1/4" ID) (Order By The Foot – 6 Feet Required)	44	130-3193	1	Gasket, Spacer
23	130-4362	1	Kit, Gauge – Safety Sight – Radiator (Includes Glass Bulb and O-Ring)	45	503-1414-02	2	Hose, Radiator (2–3/4" ID x 5–3/4")
24	821-5003-03	12	Screw, Self-Locking – Hex Washer Head (5/16–18 x 3/4")	46	130-3180	1	Connection, Radiator
				47	130-3184	1	Gasket, Connection
				48	130-4671	1	Bracket, Mounting – Belt Guard
				49	402-0070	1	Dampener, Vibration
				50	821-0014	2	Screw, Self-Locking – Hex Washer Head (5/16–18 x 1/2")
				51	821-5004-03	3	Screw, Self-Locking – Hex Washer Head (3/8–16 x 1")

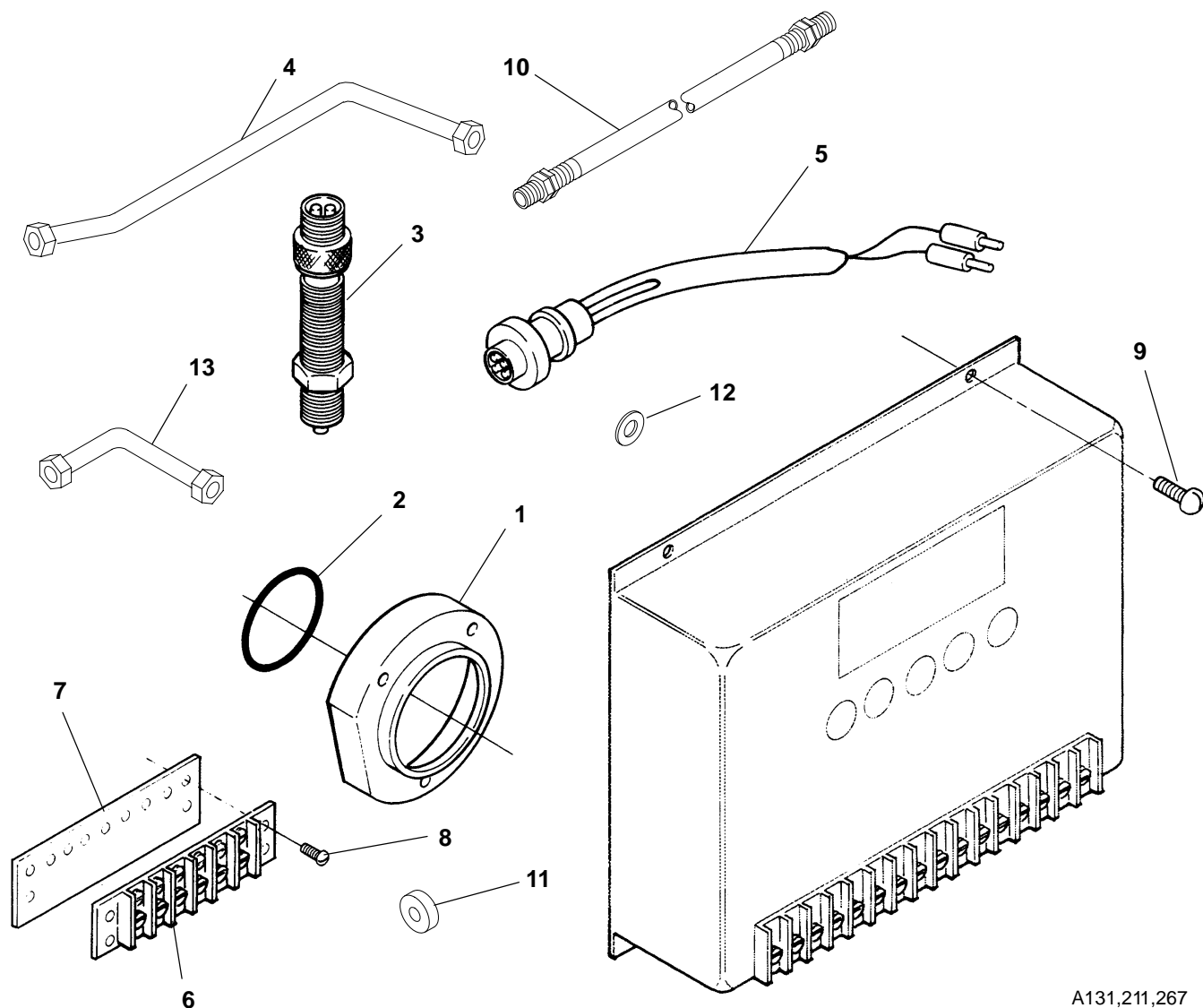
Electronic Governor



A332,H529,546,547

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	151-0637	1	Control, Governor	5	870-0131	4	Nut, Hex – W/ET (#10-32)
2			Screw, Self-Locking – Hex Washer Head	6			Screw
	821-5002-03	4	1/4-20 x 1/2" – DFBF, DFCE Spec H		813-0103	4	Machine – Round Head (#10-32 x 3/4") DFBF, DFCE Spec H
	821-6002-03	4	Through M, DFCE Spec A				Through M, DFCE Spec A
			M6 x 20mm – DFBF, DFCE Spec N, DFCE Begin Spec B		821-6001-03	4	Self-Locking – Hex Washer Head (M5 x 16mm) DFBF, DFCE Begin Spec N, DFCE Begin Spec B
3	151-0411	1	Pickup, Magnetic				
4	150-2213	1	Cover, Governor Control				

Woodward Governor

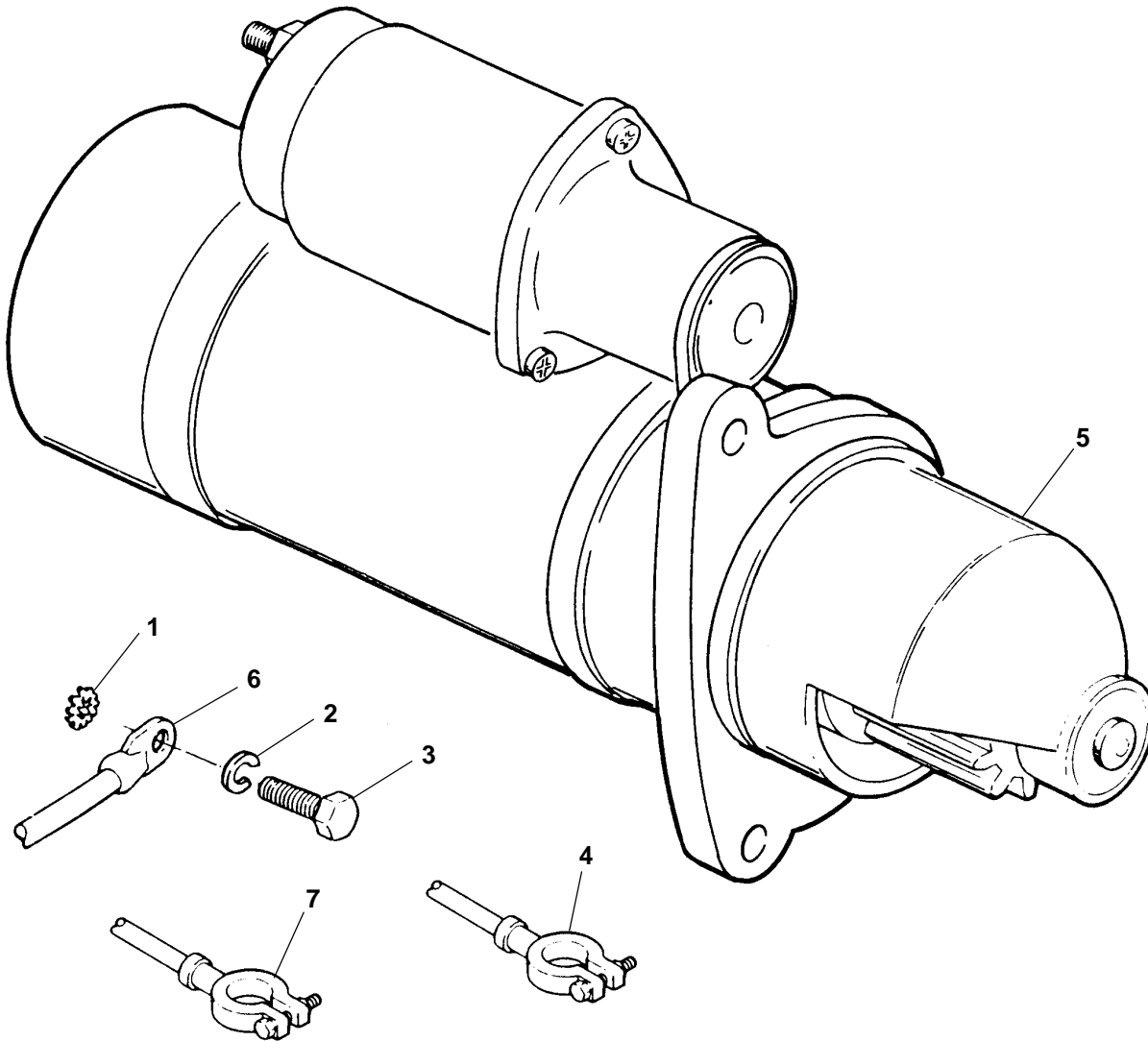


A131,211,267

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2334	1	Plug – Fuel Pump EFC Cavity	8	822-1050	4	* Screw, Machine – Round Head (#8-32 x 3/4")
2	509-0272-02	1	Seal, O-Ring – EFC Cavity Plug	9	813-0103	4	* Screw, Machine – Round Head (#10-32 x 3/4")
3	151-0411	1	* Pickup, Magnetic	10	501-0537-47	1	* Hose, Fuel Pump (20")
4	149-2176	1	Tube, Fuel Supply	11	151-0663-02	1	Spacer (21/64" ID x 1/4")
5	338-2538	1	* Harness, Wiring – Adapter – Woodward Governor to Engine Harness (12") (ACT to ACT)	12	526-0022	2	Washer, Flat (5/16")
6	332-0699	2	* Block, Terminal (6 Place)	13	149-2302	1	* Tube, Fuel Supply
7	332-0970	2	* Strip, Marker				

* – Not Used On All Models

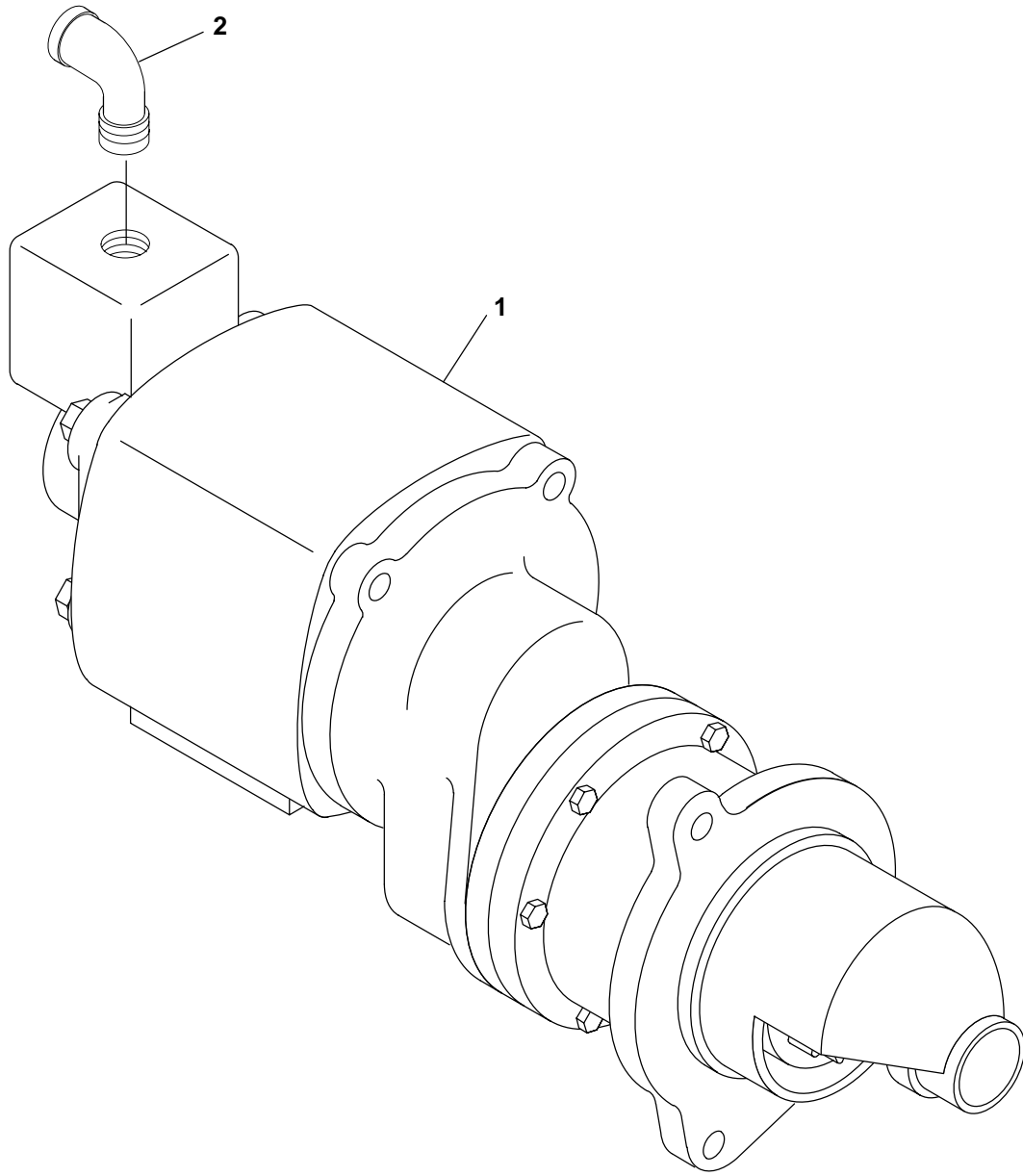
Electric Starter



A334

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	856-0013	1	Washer, Lock - EIT (1/2")	4	416-0444	2	Cable, Battery
	856-0013	2	Sets With 44" Wide Skid				Sets With 44" Wide Skid (44")
2	850-0060	1	Sets With 50" Wide Skid		416-0619	1	18"
	850-0060	2	Washer, Lock - Spring (1/2")		416-0444	1	44"
3			Sets With 44" Wide Skid	5	191-1858	1	Starter (24VDC)
	800-0090	1	Sets With 50" Wide Skid	6	416-0632	1	Cable, Battery - Starter to
	800-0090	2	Screw, Cap - Hex Head				Ground (14-1/2")
			(1/2-13 x 1")	7	416-0446	1	Cable, Battery - Jumper
			Sets With 44" Wide Skid				(12-1/2")
			Sets With 50" Wide Skid				

Air Starter

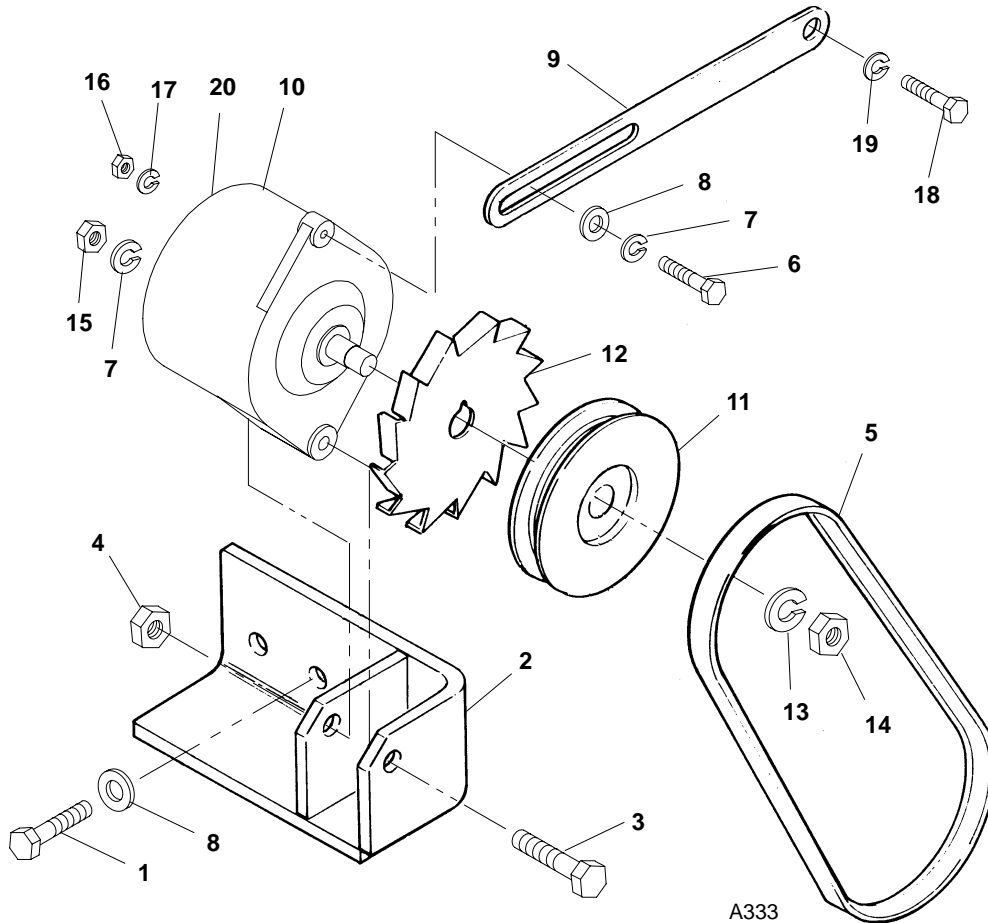


A300

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	127-0387-02	1	Starter, Air

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	502-1054-07	1	Elbow, Street Pipe – 90 Deg

**Alternator
45 Amp**

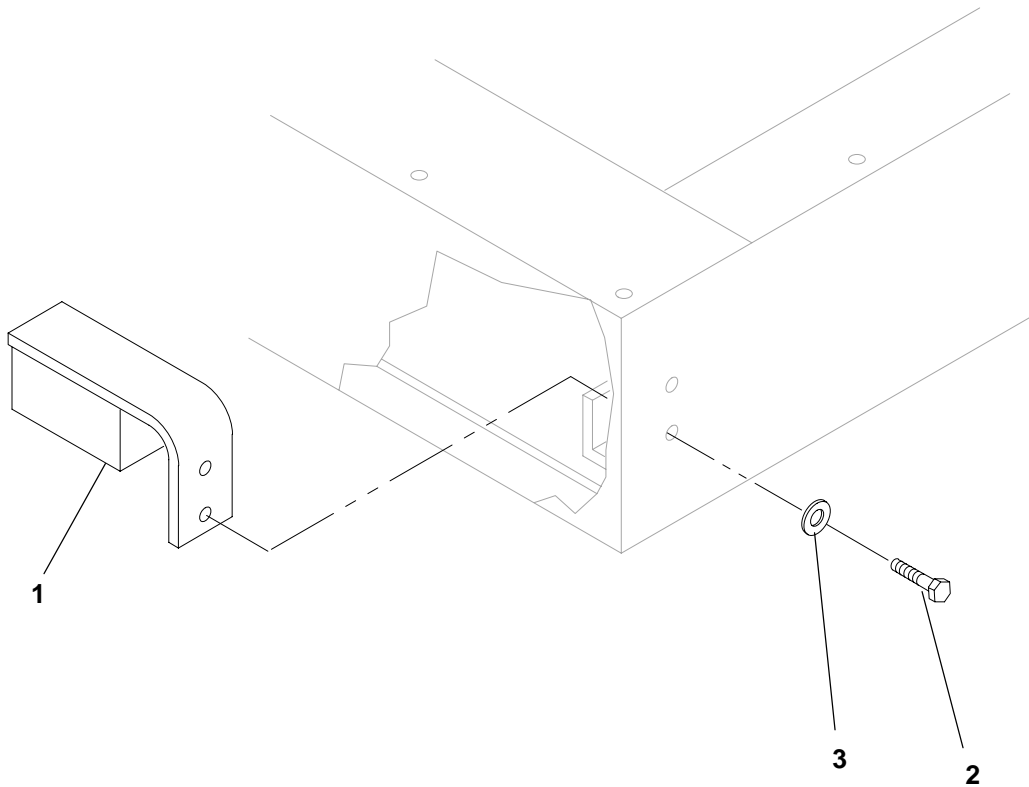


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0050	2	Screw, Cap – Hex Head (3/8–16 x 1")	10	191-1983-02	1	Alternator (G1)
2	191-1980	1	Bracket, Mounting	11	191-1982	1	Pulley, Alternator
3	800-0059	1	Screw, Cap – Hex Head (M10 x 80mm)	12	191-1981	1	Fan, Alternator
4	870-2056	1	Nut, Hex – Flange Head (M10)	13	851-0039	1	Washer, Spring (Special)
5	511-0092	1	Belt, Alternator	14	870-2161	1	Nut, Hex (M16)
6	800-2059	1	Screw, Cap – Hex Head (M8 x 30mm)	15	860-2008	1	Nut, Hex (M8)
7	850-2008	2	Washer, Lock – Spring (M8)	16	860-2006	2	Nut, Hex (M5)
8	526-0030	3	Washer, Flat (3/8")	17	850-2005	2	Washer, Lock – Spring (M5)
9	191-1977	1	Bracket, Adjusting	18	800-0202	1	Screw, Cap – Hex Head (7/16–20 x 3–1/2")
				19	850-0055	1	Washer, Lock – Spring (7/16")
				20	191-2121	1	Regulator, Voltage

This exploded view diagram illustrates the assembly of a mechanical component, likely a motor or actuator. The components are numbered 1 through 17. The main assembly consists of a motor unit (11) with a mounting bracket (14) on top. A pulley (9) is mounted on the motor shaft, which is connected to a drive pulley (12) via a timing belt (10). The drive pulley is mounted on a shaft (4) that passes through a housing (13). A lever arm (15) is attached to the end of the shaft (4) and is secured with a nut (16). The lever arm is also connected to a linkage mechanism (17) that is mounted to a base plate (3). The base plate (3) is secured with two bolts (1) and washers (2). The motor unit (11) is also secured with a bolt (6) and a washer (5). The diagram shows the relative positions and assembly sequence of the components.

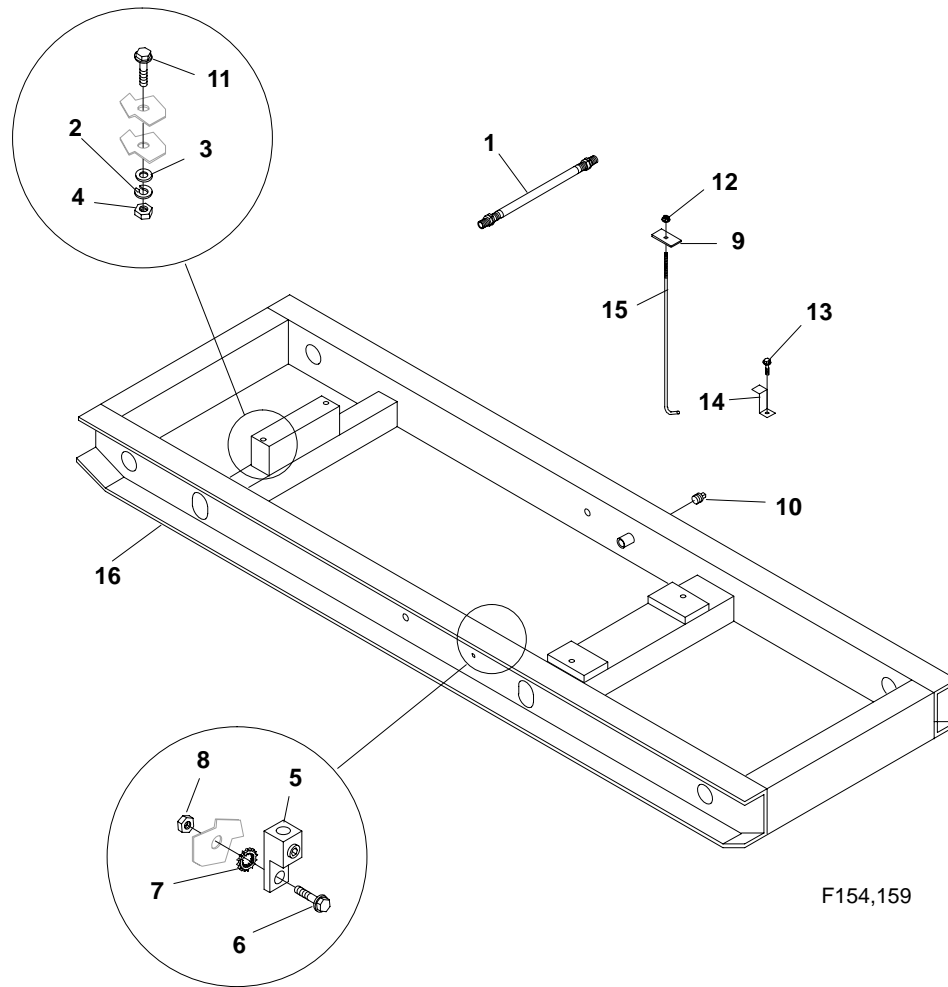
65

Skid Damper
Generator Sets With Narrow (44" Wide) Skid
Generator Sets Operating At 50 Hertz
DFBF, DFCB, DFCC Spec K



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-3814	2	Damper	3	526-0399-64	4	Washer, Flat (M12)
2	800-3017-53	4	Screw, Cap – Hex Head (M12 x 25mm)				

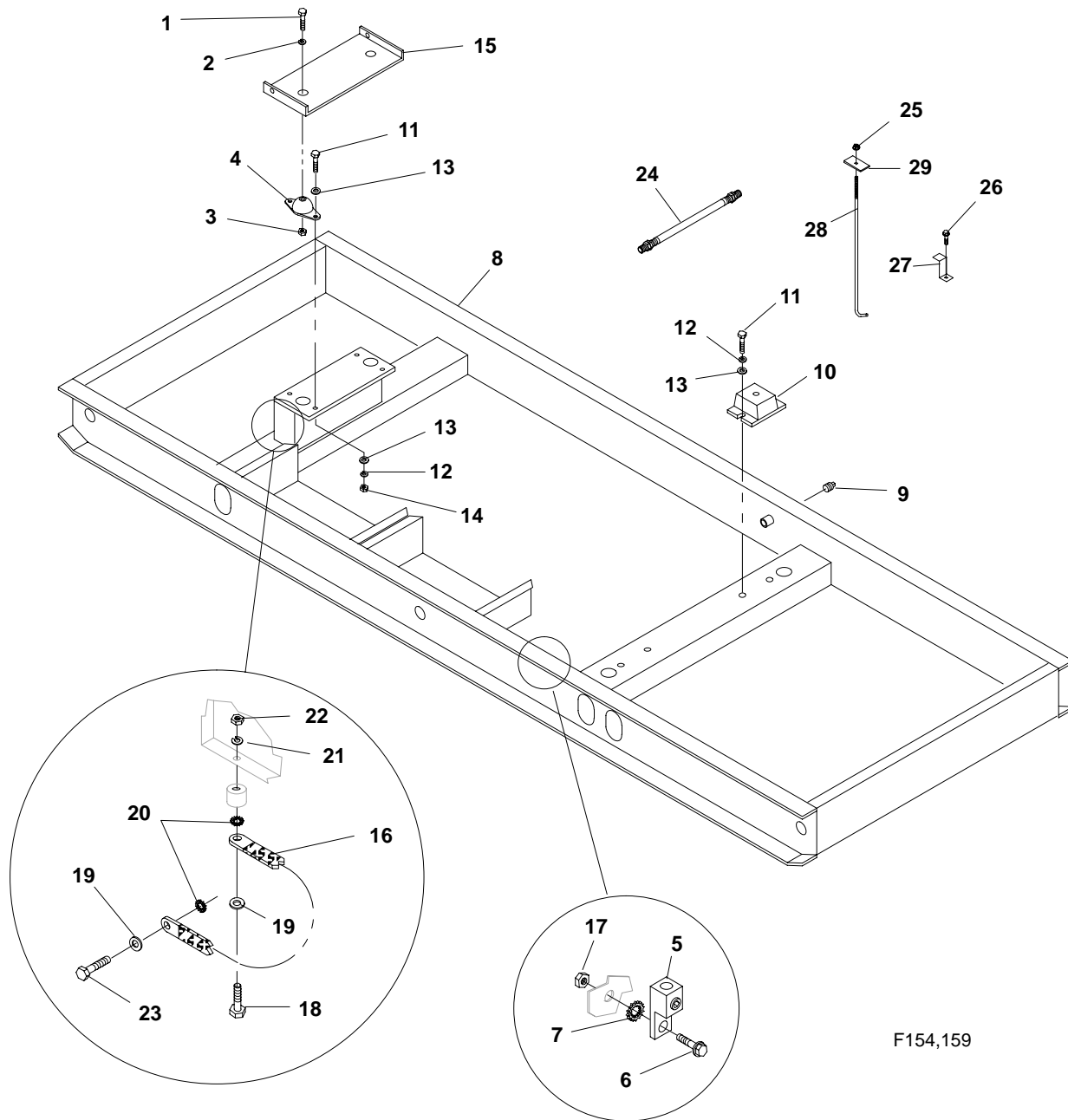
Skid **DFBF, DFCB, DFCC Spec H Through N**



F154,159

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Line, Fuel – Flexible (Generator Sets Without Day Tank)	11	800-0138	2	Screw, Cap – Hex Head (5/8-11 x 3")
	501-0084	1	Fuel Supply (1/2" ID x 39")	12	870-0212	1	Nut, Hex – Locking (1/4-20)
	501-0216	1	Fuel Return (3/8" ID x 42")	13	800-0048	2	Screw, Cap – Hex Head (3/8-16 x 3/4")
2	850-0070	2	Washer, Lock – Spring (5/8")	14	416-0850	4	Bracket, Retainer – Battery (Quantity Of 2 Used On The Outside End Of The Batteries On Some Early Models)
3	526-0198	2	Washer, Flat (5/8")	15	416-0853	1	Hold-Down – Battery (Used Between The Batteries On Some Early Models)
4	862-0007	2	Nut, Hex (5/8-11)	16			Skid
5	332-1473	1	Lug, Solderless – Grounding		403-3839	1	Generator Sets With 44" Wide Skid
6	800-0026	1	Screw, Cap – Hex Head (5/16-18 x 3/4")		403-3066	1	50 Hertz Sets
7	856-0008	1	Washer, Lock – W/EIT (5/16")		403-2904	1	60 Hertz Sets
8	870-0257	1	Nut, Hex – Locking (5/16-18)				Generator Sets With 50" Wide Skid
9	416-0975-01	1	Bracket, Retainer – Battery (Used Between The Batteries On Some Early Models)				
10	505-1379	1	Plug, Pipe (1/2") Generator Sets With 50" Wide Skid				

Skid
DFBF, DFCB, DFCC Begin Spec P
DFCE

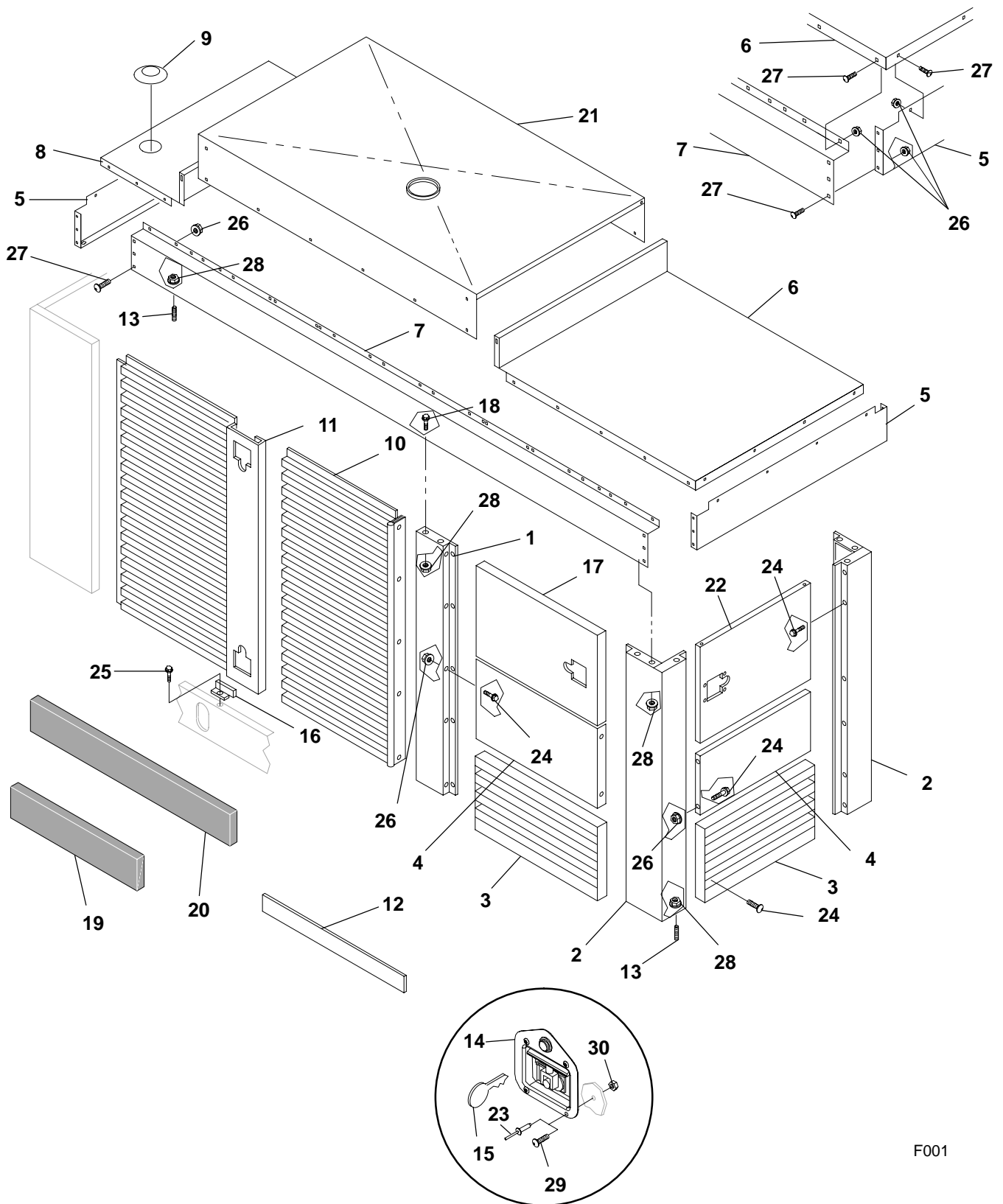


F154,159

**Skid
DFBF, DFCB, DFCC Begin Spec P
DFCE**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0138	2	Screw, Cap – Hex Head (5/8-11 x 3")	19	526-0030	2	Washer, Flat (3/8")
2	850-0070	2	Washer, Lock – Spring (5/8")	20	856-0010	2	Washer, Lock – EIT (3/8")
3	870-0547	2	Nut, Hex (5/8-11)	21	850-0050	2	Washer, Lock – Spring (3/8")
4	402-0716	2	Isolator, Vibration – Engine End	22	860-0003	2	Nut, Hex (3/8-16)
5	332-1473	1	Lug, Solderless – Grounding	23	800-0051	1	Screw, Cap – Hex Head (3/8-16 x 1-1/4")
6	800-0027	1	Screw, Cap – Hex Head (5/16-18 x 7/8")	24			Line, Fuel – Flexible (Generator Sets Without Day Tank)
7	856-0008	1	Washer, Lock – EIT (5/16")		501-0084	1	Fuel Supply (1/2" ID x 39")
8	403-4125	1	Skid Generator Sets With 44" Wide Skid		501-0216	1	Fuel Return (3/8" ID x 42")
	403-4143	1	Generator Sets With 50" Wide Skid	25	870-0212	1	Nut, Hex – Locking (1/4-20)
9	505-1379	1	Plug, Pipe (1/2")	26	800-0048	2	Screw, Cap – Hex Head (3/8-16 x 3/4")
10	402-0704	2	Isolator, Vibration Generator End	27	416-0850	4	Bracket, Retainer – Battery (Quantity Of 2 Used On The Outside End Of The Batteries On Some Early Models)
11	800-0091	8	Screw, Cap – Hex Head (1/2-13 x 1-1/4")				Hold-Down – Battery (Used Between The Batteries On Some Early Models)
12	850-0060	8	Washer, Lock – Spring (1/2")	28	416-0853	1	Bracket, Retainer – Battery (Used Between The Batteries On Some Early Models)
13	526-0219	12	Washer, Flat (1/2")				
14	862-0016	4	Nut, Hex (1/2-13)	29	416-0975-01	1	
15	403-4114	1	Bracket, Engine Support				
16	337-0090	1	Strap, Ground				
17	870-0550-07	1	Nut, Hex – Flange (5/16-18)				
18	800-0053	1	Screw, Cap – Hex Head (3/8-16 x 1-3/4")				

Housing

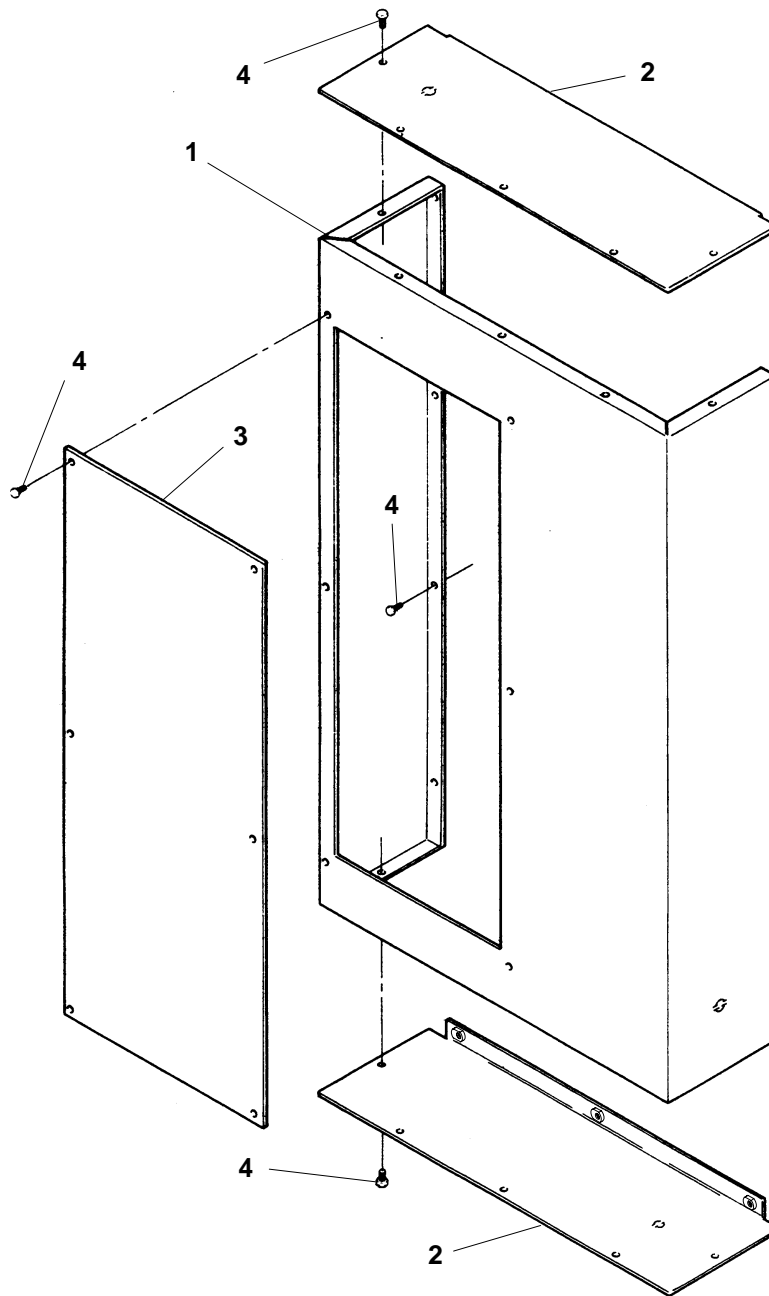


F001

Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-4110	2	Post – Center	20	128-0117	4	Insulation, Foam (40" x 7-13/16" x 1/4")
2	405-4111	2	Post – Rear	21	405-4114	1	Roof – Center
3	405-4104	3	Grille				DFBF, DFCB, DFCC Spec H
4	405-4112	3	Panel – Rear and Side				Through M
5	405-4117	2	Cap, End – Front and Rear				DFCE Spec A
6	405-4115	1	Roof – Rear		405-4114-01	1	DFBF, DFCB, DFCC Begin
7	405-4118-01	2	Rail – Side		405-4114-02	1	Spec N, DFCE Begin Spec B
8			Roof – Front	22	405-4106	1	Door, Control
	405-4113	1	DFBF, DFCB, DFCC Spec H and J	23	818-0231-02	28	Rivet, Pop – DFBF, DFCB, DFCC Begin Spec K, DFCE
	405-5198	1	DFBF, DFCB, DFCC Begin Spec K, DFCE	24			Screw, Self-Locking – Hex Washer Head
9	517-0245	1	Plug		821-5003-01	49	DFBF, DFCB, DFCC Spec H and J (5/16-18 x 1/2")
10	405-4108	2	Door – Side – Without Opening For Door Handles (Right Side Center Location And Left Side Front Location)		821-5003-03	49	DFBF, DFCB, DFCC Begin Spec K, DFCE (5/16-18 x 3/4")
11	405-4109	2	Door – Side – With Opening For Door Handles (Right Side Front Location And Left Side Center Location)	25	815-0236	4	Screw, Hex Head – Thread Forming (5/16-18 x 5/8")
12	895-0308	–	Tape, Sealing – Bulk (1/8" Thk x 1" Wide) (Order By The Foot – 6 Feet Required)	26			Nut, Locking – Hex (5/16-18)
13	520-0544	14	Stud (3/8-16 x 1-3/16")		870-0257	52	DFBF, DFCB, DFCC Spec H and J
14	406-0626	7	Handle, Door (Includes Key)		870-0550-07	52	DFBF, DFCB, DFCC Begin Spec K, DFCE
15	406-0639	7	Key, Handle	27	816-0098	52	Bolt, Carriage (5/16-18 x 5/8")
16	405-3980	2	Stop, Door	28			Nut, Locking – Hex (3/8-16)
17	405-4107	2	Door – Side		870-0281	24	DFBF, DFCB, DFCC Spec H and J
18			Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")		870-0550-09	24	DFBF, DFCB, DFCC Begin Spec K, DFCE
	821-0029	10	DFBF, DFCB, DFCC Spec H and J	29	815-0607	28	Screw, Oval Head (#8-32 x 3/8")
	821-5004-02	10	DFBF, DFCB, DFCC Begin Spec K, DFCE				DFBF, DFCB, DFCC Spec H and J
19	128-0118	1	Insulation, Foam (24" x 5-3/4" x 1/4")	30	870-0235	28	Nut, Locking – Hex (#8-32) DFBF, DFCB, DFCC Spec H and J

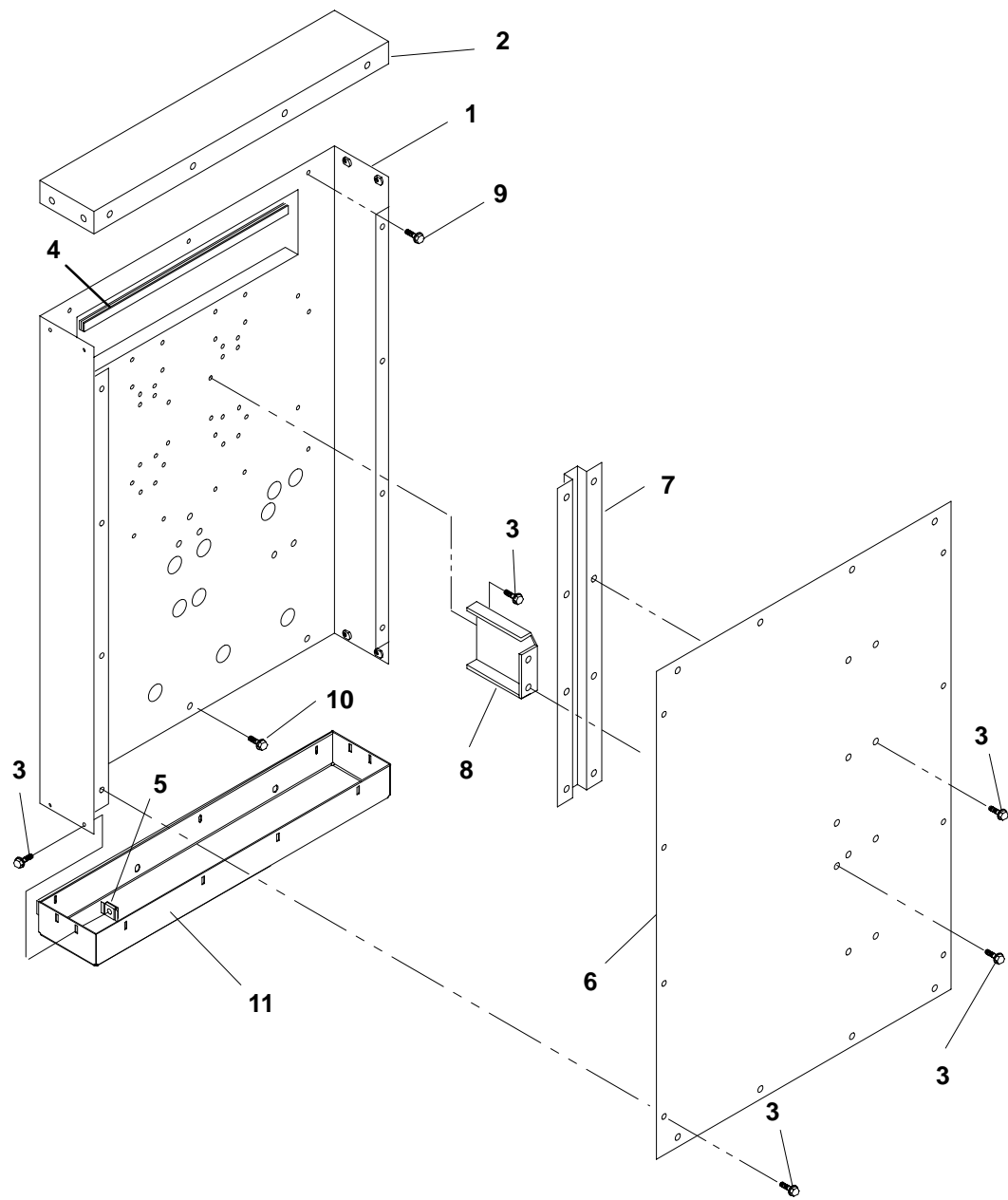
Entrance Box **DFBF, DFCB, DFCC Spec H**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9655	1	Box, Entrance
2	319-1355	2	Panel
3	301-9698	1	Cover

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	821-5002-03	22	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")

Entrance Box
DFBF, DFCB, DFCC Begin Spec J
DFCE

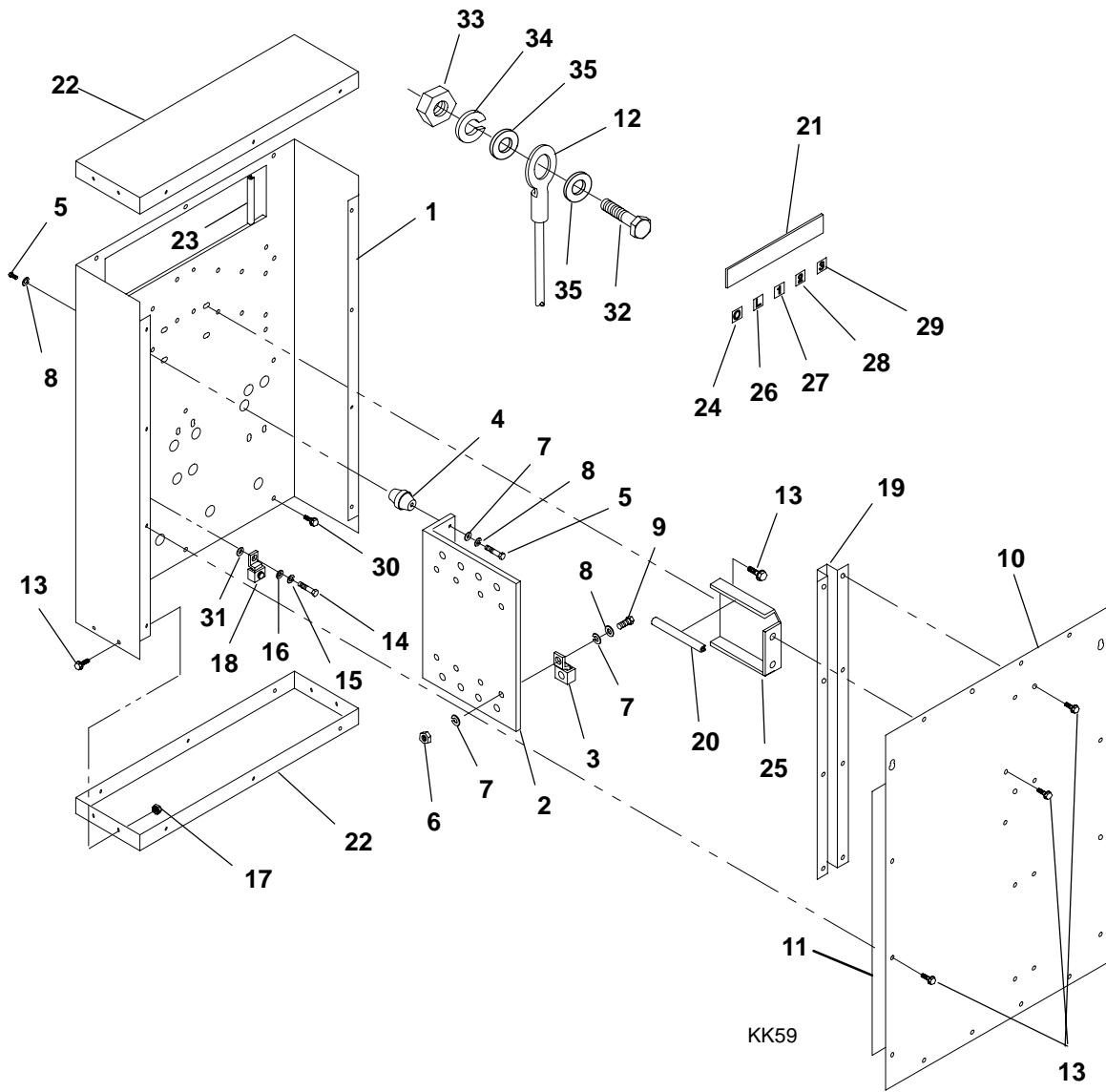


K882

Entrance Box
DFBF, DFCB, DFCC Begin Spec J
DFCE

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Box, Entrance	7			Brace, Cover
	319-2432	1	DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A		319-1918	1	DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A
	319-3169	1	DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B		319-3284	1	DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B
2	319-1915	1	Panel (Top)	8			Brace, Cover
3			Screw, Self-Locking – Hex Washer Head		319-1927	1	DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A
	821-5002-03	41	DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A (1/4-20 x 1/2")		319-3251	1	DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B
	821-6002-03	44	DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B (M6 x 16mm)	9	821-5002-04	4	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")
4			Edging – Bulk (Order By The Foot)				DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A
	508-1092	–	DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A – 3 Feet Required	10			Screw, Self-Locking – Hex Washer Head
	508-1092	–	DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B – 2 Feet Required		821-0009	1	DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A (1/4-20 x 3/8")
5			Nut, Self-Retaining		821-2035	2	DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B (M6 x 25mm)
	870-0494	16	DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A (1/4-20) Floating	11			Panel (Bottom)
	870-0504	16	DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B (M6)		319-1915	1	DFBF, DFCB, DFCC Spec J Through M, DFCE Spec A
6	319-1916	1	Cover		319-3183	1	DFBF, DFCB, DFCC Begin Spec N, DFCE Begin Spec B

Bus Box
DFBF, DFCB, DFCC Spec L and M
DFCE Spec A



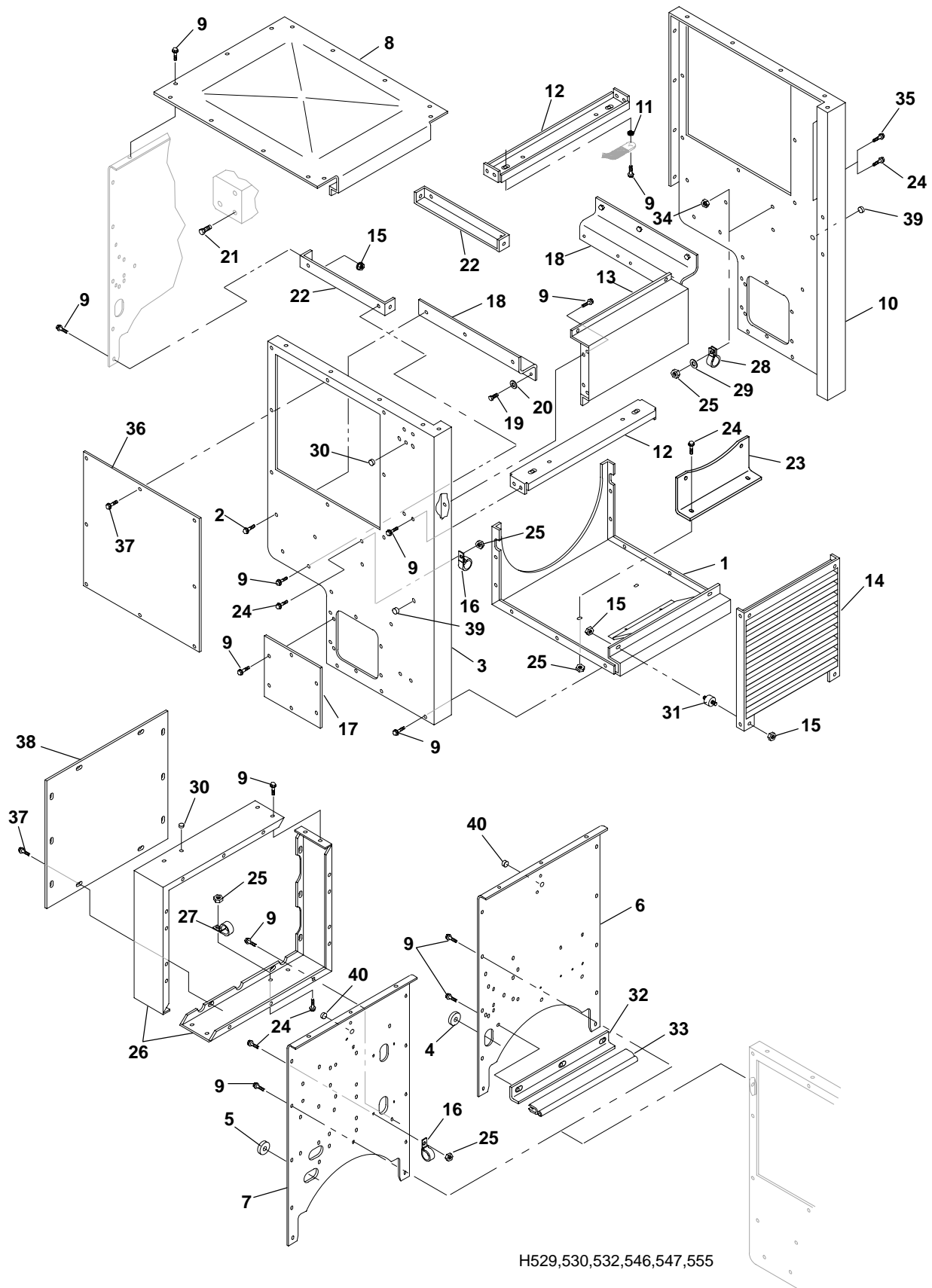
KK59

Bus Box
DFBF, DFCB, DFCC Spec L and M
DFCE Spec A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2727	1	Box, Bus	21	091-0002	1	Strip, Copper (Used For Wrapping Ends Of Leads) (Quantity Used As Required)
2	337-2868	4	Bus, Load Connection	22	319-1915	2	Panel
3	332-2001	16	Lug, Solderless	23	508-1092	-	Edging - Bulk (Order By The Foot - 3 Feet Required)
4	332-2744-02	8	Standoff, Insulator	24	098-5854-10	1	Label, Marker (10 Characters Per Card) Marked "0"
5	800-0047	16	Screw, Cap - Hex Head (3/8-16 x 5/8")	25	319-1927	1	Brace, Cover
6	862-0003	16	Nut, Hex (3/8")	26	098-5854-06	4	Label, Marker (10 Characters Per Card) Marked "L"
7	526-0029	40	Washer, Flat (3/8")	27	098-5854-07	1	Label, Marker (10 Characters Per Card) Marked "1"
8	850-0050	32	Washer, Lock - Spring (3/8")	28	098-5854-08	1	Label, Marker (10 Characters Per Card) Marked "2"
9	800-0051	16	Screw, Cap - Hex Head (3/8-16 x 1-1/4")	29	098-5854-09	1	Label, Marker (10 Characters Per Card) Marked "3"
10	319-2726	1	Cover, Bus Box	30	821-0018	5	Screw, Self-Locking - Hex Washer Head (1/4-20 x 5/8")
11	878-0367	1	Insulator (12" x 16")	31	856-0010	1	Washer, Lock - EIT (3/8")
12			Lead (#1/0 Wire)	32	800-0094	15	*Screw, Cap - Hex Head (1/2-13 x 2")
	226-4406-08	24	Sets With Model HC4 Generator (36")	33	862-0005	15	*Nut, Hex (1/2-13)
	226-4406-07	36	Sets With Model HC5 Generator (33")	34	850-0060	15	*Washer, Lock - Spring (1/2")
13	821-0010	40	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2")	35	526-0219	30	*Washer, Flat (1/2")
14	800-0050	1	Screw, Cap - Hex Head (3/8-16 x 1")				
15	850-0050	1	Washer, Lock - Spring (3/8")				
16	526-0029	1	Washer, Flat (3/8")				
17	870-0494	16	Nut, Self-Retaining - Floating (1/4-20)				
18	332-2001	1	Lug, Solderless (Grounding)				
19	319-1918	1	Brace, Cover				
20	508-1107	2	Edging (8")				

* - Parts Are Not Used On Sets With Model HC4 Generator

Control Housing Model HC4 Generators DFBF, DFCB, DFCC



H529,530,532,546,547,555

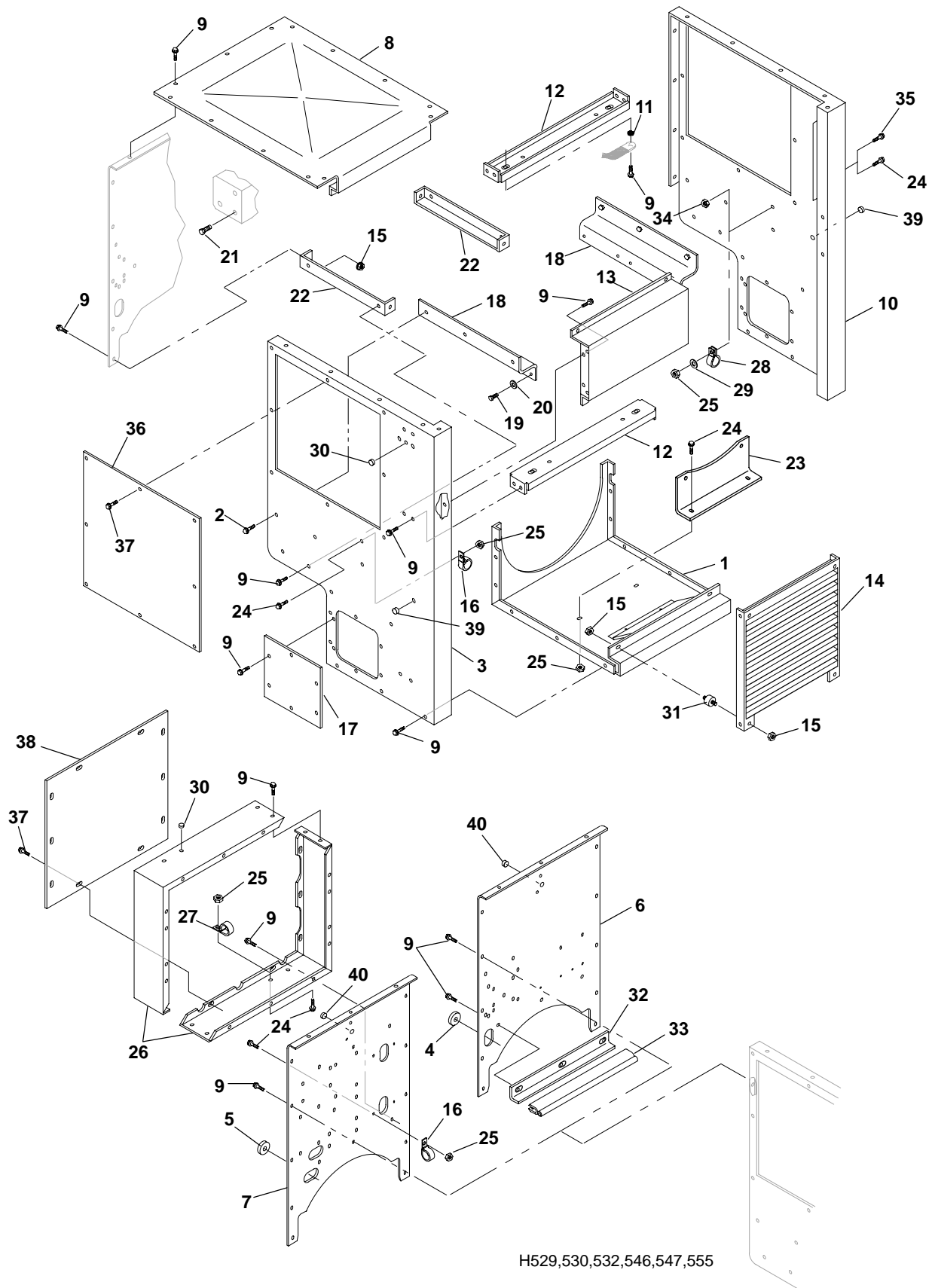
**Control Housing
Model HC4 Generators
DFBF, DFCB, DFCC**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Panel – Bottom	18			Bracket, Mounting
	319-2771-01	1	Spec H Through M		319-0743	2	Spec H Through M
	319-3270-01	1	Begin Spec N		319-3255	2	Begin Spec N
2			Screw, Self-Locking – Hex	19	800-2111	6	Screw, Cap – Hex Head
			Washer Head				(M12 x 25mm)
	821-5004-02	6	Spec H Through M	20	850-2012	6	Washer, Lock – Spring (M12)
			(3/8–16 x 3/4")	21	800-2114	1	Screw, Cap – Hex Head
	821-6004-01	6	Begin Spec N (M10 x 20mm)				(M12 x 40mm)
3			Panel – Right Side	22			Panel, Support
	319-2784-01	1	Spec H Through M		319-0748	2	Spec H Through M
	319-3287-01	1	Begin Spec N		319-3257	2	Begin Spec N
4	508-1057	1	*Grommet, Rubber	23	319-1345	1	Bracket, Panel
			(Fits 2–1/4" Hole)	24			Screw, Self-Locking – Hex
5	508-1090	4	#Grommet, Rubber				Washer Head
			(Fits 3–1/4" Hole)				Sets With Detector Control
6			Panel – Front		821-5003-03	5	* Spec H Through M
	319-2785	1	* Spec H Through M				(5/16–18 x 3/4")
	319-3289	1	* Begin Spec N		821-6003-02	5	* Begin Spec N (M8 x 20mm)
7			Panel – Front				Sets With PowerCommand Control
	319-2218	1	# Spec K Through M		821-5003-03	7	# Spec K Through M
	319-3274	1	# Begin Spec N				(5/16–18 x 3/4")
8	301-9512	1	Cover, Top		821-6003-02	7	# Begin Spec N
9			Screw, Self-Locking – Hex				(M8 x 20mm)
			Washer Head				Nut, Locking – Hex Head
			Sets With Detector Control	25			Sets With Detector Control
	821-5002-03	62	* Spec H Through M		870-0257	5	* Spec H Through M (5/16–18)
			(1/4–20 x 1/2")		870-2055	5	* Begin Spec N (M8)
	821-6002-03	62	* Begin Spec N (M6 x 16mm)				Sets With PowerCommand Control
			Sets With PowerCommand Control				Sets With PowerCommand Control
	821-5002-03	69	# Spec K Through M		870-0257	7	# Spec K Through M
			(1/4–20 x 1/2")				(5/16–18)
	821-6002-03	69	# Begin Spec N		870-2055	7	# Begin Spec N (M8)
			(M6 x 16mm)	26			Wrapper, Control Box
10			Panel – Left Side		319-2476	2	# Spec K Through M
	319-2784-02	1	Spec H Through M		319-3278	2	# Begin Spec N
	319-3287-02	1	Begin Spec N	27	332-2634	2	# Clamp, "J"
11			Washer, Lock – W/EIT (1/4")	28	518-0548-24	1	# Clamp, Retainer
	856-0006	1	* Sets With Detector Control	29			Washer, Flat
	856-0006	2	# Sets With PowerCommand Control		526-0399-16	1	# Spec K Through M (5/16")
					526-2100	1	# Begin Spec N (M8)
12			Support, Control Box	30			Plug, Hole (Fits 3/8" Hole)
	301-9510	2	Spec H Through M		517-0131	1	* Sets With Detector Control –
	319-3294	2	Begin Spec N				Begin Spec N
13	319-2776	1	Panel – Rear				Sets With PowerCommand
14	319-2768	1	Grille				Control
15			Nut, Locking – Hex Flange Head		517-0131	2	# Spec K Through M
	870-0550-05	10	Spec H Through M (1/4–20)		517-0131	3	# Begin Spec N
	870-2054	8	Begin Spec N (M6)				
16			Clamp, "J"				
	332-2634	2	* Sets With Detector Control				
	332-2634	1	# Sets With PowerCommand Control				
17	301-9629	2	Cover, Side – Lower				

* – Parts Used On Sets With Detector Control
– Parts Used On Sets With PowerCommand Control

Continued...

Control Housing Model HC4 Generators DFBF, DFCB, DFCC

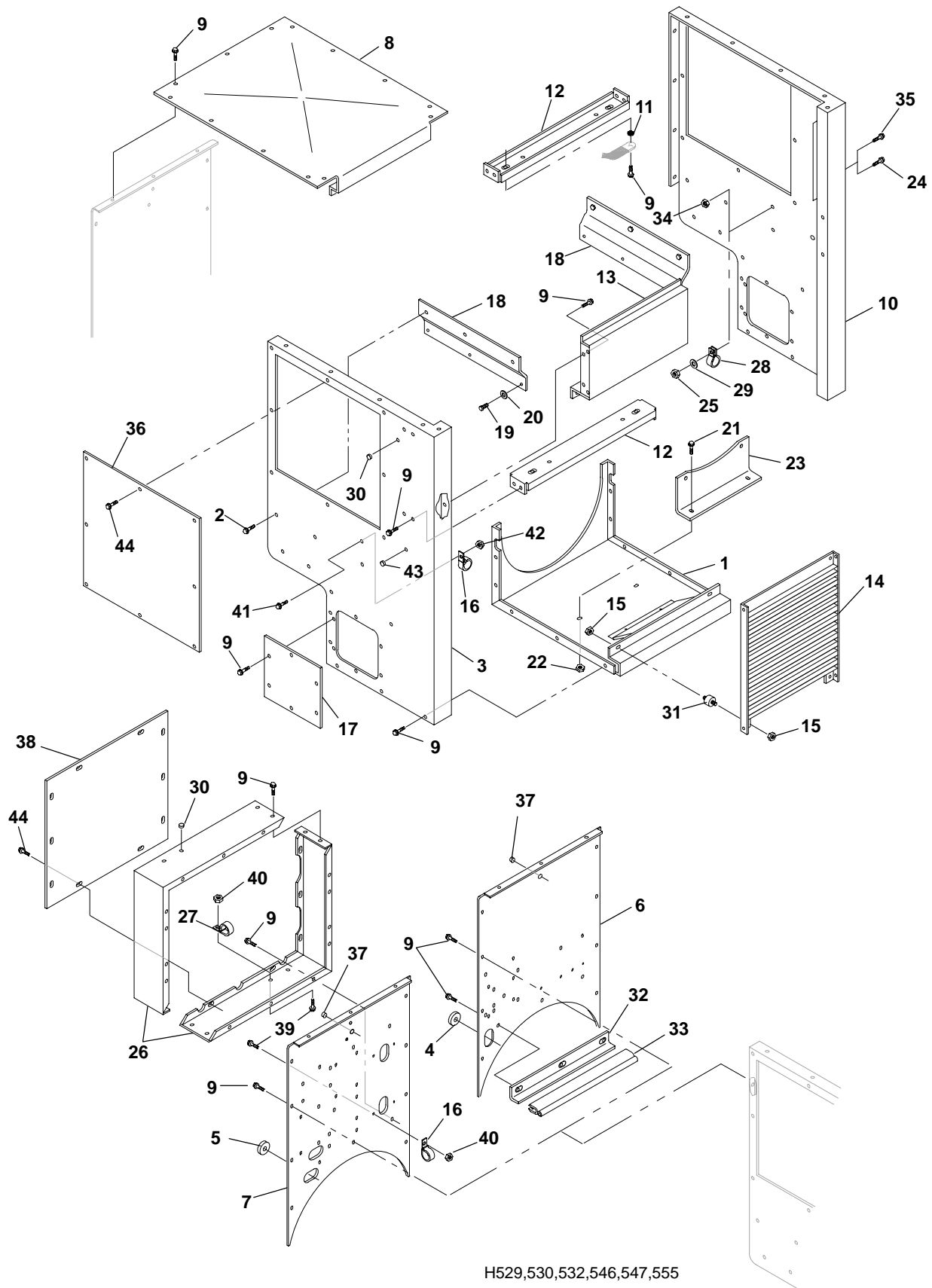


H529,530,532,546,547,555

**Control Housing
Model HC4 Generators
DFBF, DFCB, DFCC**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
31	402-0508	4	Isolator, Vibration	38	319-2220	1	#Cover, Control Box
	402-0729	4	Spec H Through M	39	517-0136	2	Plug, Hole (Fits 3/4" Hole)
32			Begin Spec N				Begin Spec N
	319-2787	1	Angle, Stiffener	40	517-0135	1	Plug, Hole (Fits 5/8" Hole)
	319-3291	1	* Spec H Through M				Begin Spec N
33	508-1109	–	* Begin Spec N				
34			*Edging – Bulk (1/4") (Order By The Foot – 1 Foot Required)				
			Nut, Locking – Hex Head (Used As A Plug)				
	870-0257	1	* Spec H Through M (5/16–18)				
	870-2055	1	* Begin Spec N (M8)				
35			Screw, Self-Locking – Hex Washer Head (Used As A Plug)				
	821-5003-03	1	* Spec H Through M (5/16–18 x 3/4")				
	821-6003-02	1	* Begin Spec N (M8 x 20mm)				
36			Cover, Side – Upper				
	301-9511	2	Without Circuit Breaker, Entrance Box or BUS Box				
	301-9511	1	With Circuit Breaker, Entrance Box or BUS Box				
37			Screw, Self-Locking – Hex Washer Head				
			Sets With Detector Control				
			Without Circuit Breaker, Entrance Box or BUS Box				
	821-5002-03	16	* Spec H Through M (1/4–20 x 1/2")				
	821-6002-03	16	* Begin Spec N (M6 x 20mm)				
			With Circuit Breaker, Entrance Box or BUS Box				
	821-5002-03	8	* Spec H Through M (1/4–20 x 1/2")				
	821-6002-03	8	* Begin Spec N (M6 x 20mm)				
			Sets With PowerCommand Control				
			Without Circuit Breaker, Entrance Box or BUS Box				
	821-5002-03	26	# Spec K Through M (1/4–20 x 1/2")				
	821-6002-03	26	# Begin Spec N (M6 x 20mm)				
			With Circuit Breaker, Entrance Box or BUS Box				
	821-5002-03	18	# Spec K Through M (1/4–20 x 1/2")				
	821-6002-03	18	# Begin Spec N (M6 x 20mm)				

Control Housing Model HC5 Generators DFBF, DFCB, DFCC



H529,530,532,546,547,555

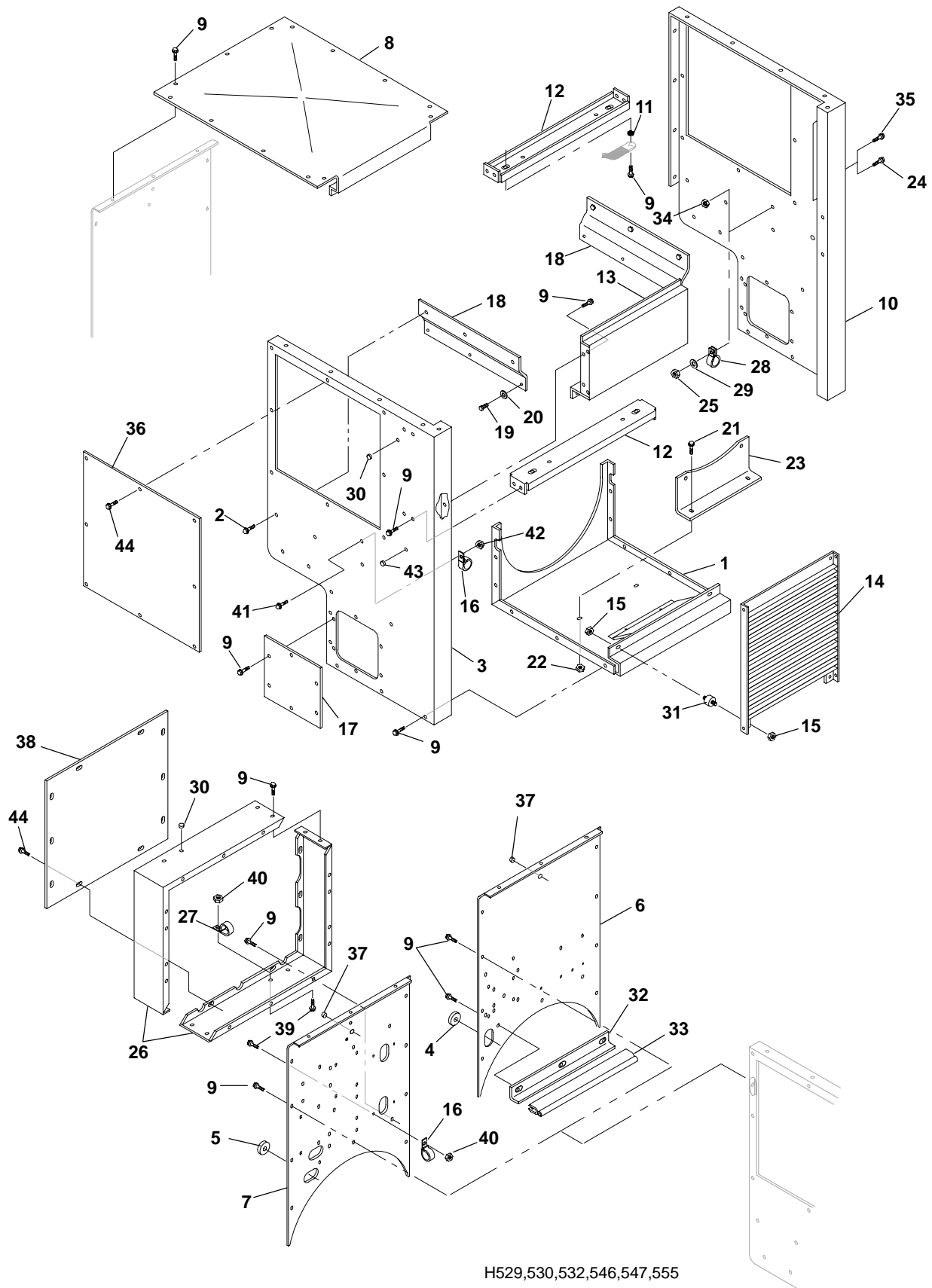
**Control Housing
Model HC5 Generators
DFBF, DFCB, DFCC**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2771-02	1	Panel – Bottom	16			Clamp, “J”
	319-3270-02	1	Spec H Through M		332-2634	2	* Sets With Detector Control
2			Begin Spec N		322-2634	1	# Sets With PowerCommand Control
			Screw, Self-Locking – Hex	17	301-9629	2	Cover, Side – Lower
	821-5004-02	6	Washer Head	18			Bracket, Mounting
			Spec H Through M		319-0745	2	Spec H Through M
	821-6004-01	6	(3/8–16 x 3/4”)		319-3327	2	Begin Spec N
			Begin Spec N (M10 x 20mm)	19	800-2111	6	Screw, Cap – Hex Head (M12 x 25mm)
3			Panel – Right Side	20	850-2012	6	Washer, Lock – Spring (M12)
	319-2784-01	1	Spec H Through M	21			Screw, Self-Locking – Hex
	319-3287-01	1	Begin Spec N				Washer Head
4	508-1057	1	* Grommet, Rubber (Fits 2–1/4” Hole)		821-5003-03	2	Spec H Through M (5/16–18 x 3/4”)
5	508-1090	4	# Grommet, Rubber (Fits 3–1/4” Hole) Begin Spec K		821-6003-02	2	Begin Spec N (M8 x 20mm)
6			* Panel – Front	22			Nut, Hex
	319-2786	1	Spec H Through M		870-0257	2	Spec H Through M (5/16–18)
	319-3290	1	Begin Spec N		870-2055	2	Begin Spec N (M8)
7			# Panel – Front	23	319-1346	1	Bracket, Panel
	319-2217	1	Spec K Through M	24			* Screw, Self-Locking – Hex
	319-3273	1	Begin Spec N				Washer Head
8	301-9512	1	Cover, Top		821-5003-03	1	Spec H Through M (5/16–18 x 3/4”)
9			Screw, Self-Locking – Hex		821-6003-02	1	Begin Spec N (M8 x 20mm)
			Washer Head	25			* Nut, Hex
			Sets With Detector Control		870-0257	1	Spec H Through M (5/16–18)
	821-5002-03	61	* Spec H Through M (1/4–20 x 1/2”)		870-2055	1	Begin Spec N (M8)
	821-6002-03	61	* Begin Spec N (M6 x 16mm)	26			# Wrapper, Control Box
			Sets With PowerCommand Control		319-2476	2	Spec K Through M
					319-3278	2	Begin Spec N
	821-5002-03	68	# Spec K Through M (1/4–20 x 1/2”)	27	332-2634	2	# Clamp, “J”
	821-6002-03	68	# Begin Spec N (M6 x 16mm)	28	518-0548-24	1	# Clamp, Retainer
				29			# Washer, Flat
10			Panel – Left Side		526-0399-16	1	Spec K Through M (5/16”) Begin Spec N (M8)
	319-2784-02	1	Spec H Through M		526-2100	1	Plug, Hole (Fits 3/8” Hole)
	319-3287-02	1	Begin Spec N	30			# Spec K Through M – Sets With PowerCommand Control
11			Washer, Lock – EIT (1/4”) Sets With Detector Control		517-0131	2	Begin Spec N
	856-0006	1	* Sets With Detector Control				* Sets With Detector Control
	856-0006	2	# Sets With PowerCommand Control		517-0131	3	# Sets With PowerCommand Control
12			Support, Control Box				
	301-9510	2	Spec H Through M				
	319-3294	2	Begin Spec N				
13	319-2776	1	Panel – Rear				
14	319-2768	1	Grille				
15			Nut, Locking – Hex Flange Head				
	870-0550-05	8	Spec H Through M (1/4–20)				
	870-2054	8	Begin Spec N (M6)				

* – Parts Used On Sets With Detector Control
– Parts Used On Sets With PowerCommand Control

Continued...

Control Housing Model HC5 Generators DFBF, DFCB, DFCC

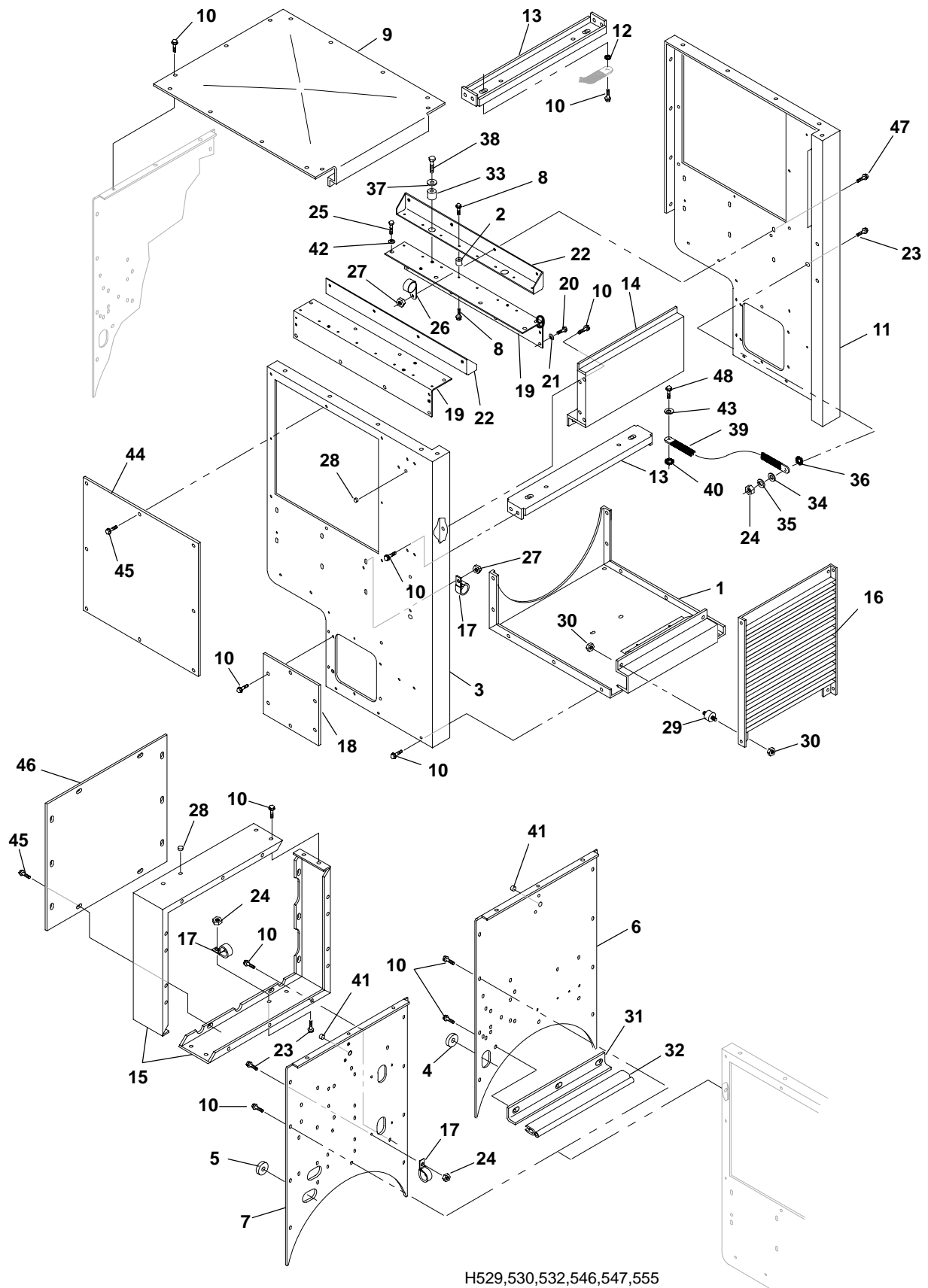


H529,530,532,546,547,555

**Control Housing
Model HC5 Generators
DFBF, DFCB, DFCC**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
31	402-0508	4	Isolator, Vibration	44			Screw, Self-Locking – Hex Washer Head
	402-0729	4	Spec H Through M				* Sets With Detector Control
32			Begin Spec N				Spec H Through M
	319-2787	1	* Angle, Stiffener				(1/4-20 x 1/2")
	319-3291	1	Spec H Through M				Without Circuit
33	508-1109	–	Begin Spec N				Breaker, Entrance Box or BUS Box
			* Edging – Bulk (1/4") (Order By The Foot – 1 Foot Required)	821-5002-03	20		With Circuit
34			* Nut, Hex (Used As A Plug)				Breaker, Entrance Box or BUS Box
	870-0257	1	Spec H Through M (5/16-18)	821-5002-03	12		Begin Spec N (M6 x 20mm)
	870-2055	1	Begin Spec N (M8)				Without Circuit
35			* Screw, Self-Locking – Hex Washer Head (Used As A Plug)	821-6002-03	20		Breaker, Entrance Box or BUS Box
	821-5003-03	1	Spec H Through M (5/16-18 x 3/4")				With Circuit
	821-6003-02	1	Begin Spec N (M8 x 20mm)	821-6002-03	12		Breaker, Entrance Box or BUS Box
36			Cover, Side – Upper				# Sets With PowerCommand Control
	301-9511	2	Without Circuit Breaker, Entrance Box or BUS Box				Spec K Through M
	301-9511	1	With Circuit Breaker, Entrance Box or BUS Box				(1/4-20 x 1/2")
37	517-0135	1	Plug, Hole (Fits 5/8" Hole)	821-5002-03	26		Without Circuit
			Begin Spec N				Breaker, Entrance Box or BUS Box
38	319-2220	1	# Cover, Control Box – Begin Spec K	821-5002-03	18		With Circuit
39			# Screw, Self-Locking – Hex Washer Head				Breaker, Entrance Box or BUS Box
	821-5003-03	2	Spec K Through M (5/16-18 x 3/4")				Begin Spec N (M6 x 20mm)
	821-6003-02	2	Begin Spec N (M8 x 20mm)	821-6002-03	26		Without Circuit
40			# Nut, Hex				Breaker, Entrance Box or BUS Box
	870-0257	3	Spec K Through M (5/16-18)	821-6002-03	18		With Circuit
	870-2055	3	Begin Spec N (M8)				Breaker, Entrance Box or BUS Box
41			Screw, Self-Locking – Hex Washer Head				
	821-5003-03	2	Spec H Through M (5/16-18 x 3/4")				* – Parts Used On Sets With Detector Control
	821-6003-02	2	Begin Spec N (M8 x 20mm)				# – Parts Used On Sets With PowerCommand Control
42			Nut, Hex				
	870-0257	1	Spec H Through M (5/16-18)				
	870-2055	1	Begin Spec N (M8)				
43	517-0136	2	Plug, Hole (Fits 3/4" Hole)				
			Begin Spec N				

Control Housing Model HC5 Generators DFCE



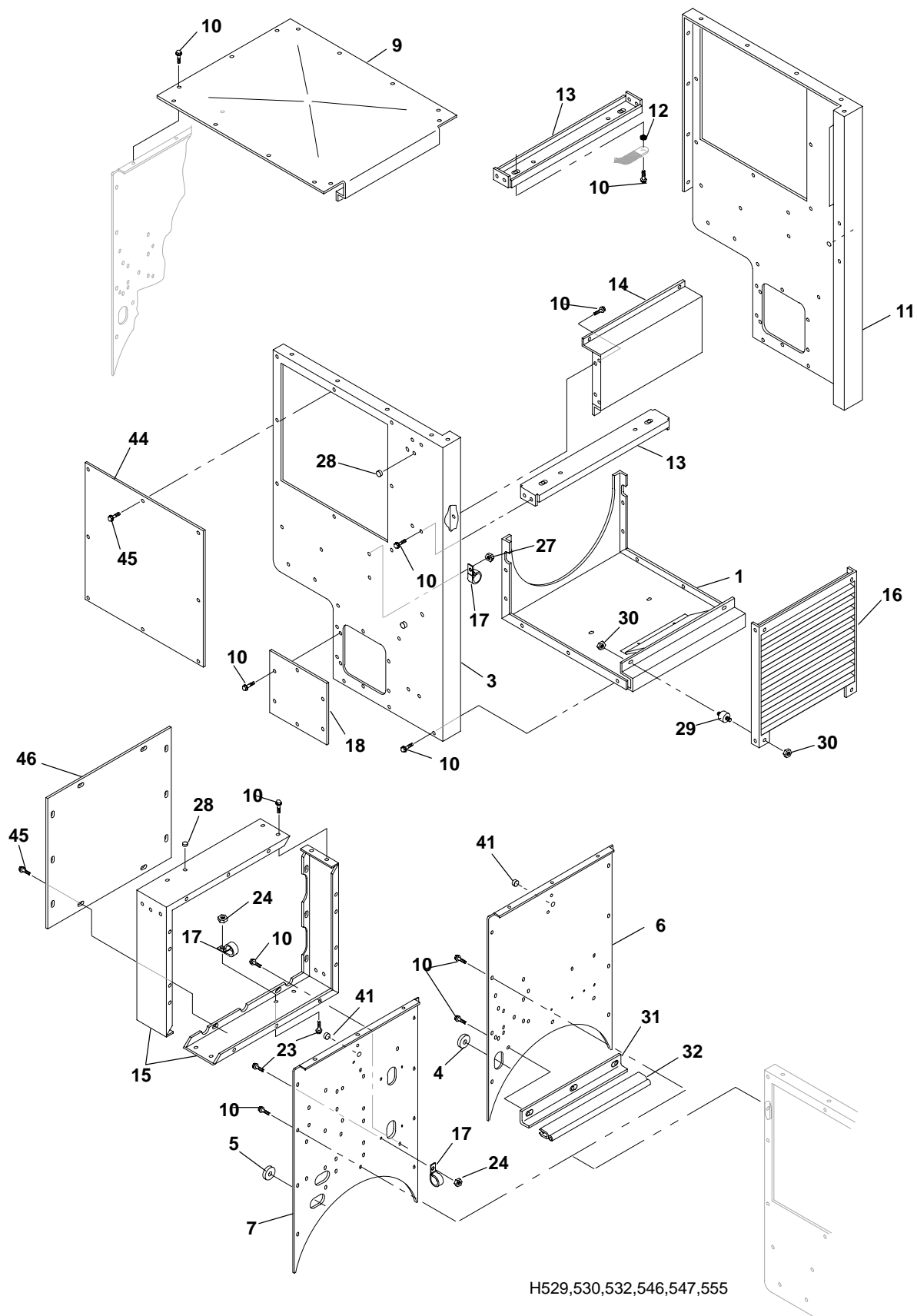
H529,530,532,546,547,555

**Control Housing
Model HC5 Generators
DFCE**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Panel – Bottom	17			Clamp, “J”
	319-2771-02	1	Spec A		332-2634	2	Sets With Detector Control
	319-3270-02	1	Begin Spec B		332-2634	3	Sets With PowerCommand Control
2	402-0070	16	Isolator, Vibration				
3			Panel – Right Side	18	301-9629	2	Cover, Side – Lower
	319-2784-01	1	Spec A	19			Bracket, Control Panel – Lower
	319-3287-01	1	Begin Spec B				
4	508-1057	1	Grommet, Rubber (Fits 2-1/4” Hole) Sets With		319-3106	2	Spec A
			Detector Control		319-3328	2	Begin Spec B
				20	800-2111	6	Screw, Cap – Hex Head (M12 x 25mm)
5	508-1090	4	Grommet, Rubber (Fits 3-1/4” Hole) Sets With	21	850-2012	6	Washer, Lock – Spring (M12)
			PowerCommand Control	22			Bracket, Control Panel – Upper
6			Panel – Front – Sets With		319-3105	2	Spec A
			Detector Control		319-3292	2	Begin Spec B
	319-2786	1	Spec A	23			Screw, Self-Locking – Hex Washer Head
	319-3290	1	Begin Spec B				Spec A (5/16–18 x 3/4”) Sets With Detector Control
7			Panel – Front – Sets With		821-5003-03	2	Sets With PowerCommand Control
			PowerCommand Control		821-5003-02	4	Sets With PowerCommand Control
	319-2217	1	Spec A				Begin Spec B (M8 x 20mm)
	319-3273	1	Begin Spec B				Sets With Detector Control
8	821-0014	32	Screw, Self-Locking – Hex Washer Head (5/16–18 x 1/2”) Sets With				Sets With PowerCommand Control
9	301-9512	1	Cover, Top				Begin Spec B (M8 x 20mm)
10			Screw, Self-Locking – Hex Washer Head		821-6003-02	2	Sets With Detector Control
			Spec A (1/4–20 x 1/2”) Sets With		821-6003-02	3	Sets With PowerCommand Control
	821-5002-03	61	Control				
	821-5002-03	68	Sets With PowerCommand Control	24			Nut, Hex
			Begin Spec B (M6 x 16mm) Sets With		870-0550-07	2	Spec A (5/16–18) Sets With Detector Control
	821-6003-02	61	Detector Control		870-0550-07	4	Sets With PowerCommand Control
	821-6003-02	68	Sets With PowerCommand Control				Begin Spec B (M8) Sets With Detector Control
11			Panel – Left Side		870-2055	2	Sets With PowerCommand Control
	319-2784-02	1	Spec A		870-2055	4	Sets With PowerCommand Control
	319-3287-02	1	Begin Spec B				
12			Washer, Lock – EIT (1/4”) Sets With	25			Screw
	856-0006	1	Detector Control		800-2085	4	Spec A – Cap – Hex Head (M10 x 20mm)
	856-0006	2	PowerCommand Control				Begin Spec B – Self-Locking – Hex Washer Head (M10 x 20mm)
13			Support, Control Box		821-6004-01	4	
	301-9510	2	Spec A				
	319-3294	1	Begin Spec B				
14	319-2776	1	Panel – Rear				
15			Wrapper, Control Box – Sets With	26	518-0548-24	1	Clamp, Retainer – Sets With
			PowerCommand Control				PowerCommand Control
	319-2476	2	Spec A				
	319-3278	2	Begin Spec B				
16	319-2768	1	Grille				

Continued...

Control Housing Model HC5 Generators DFCE

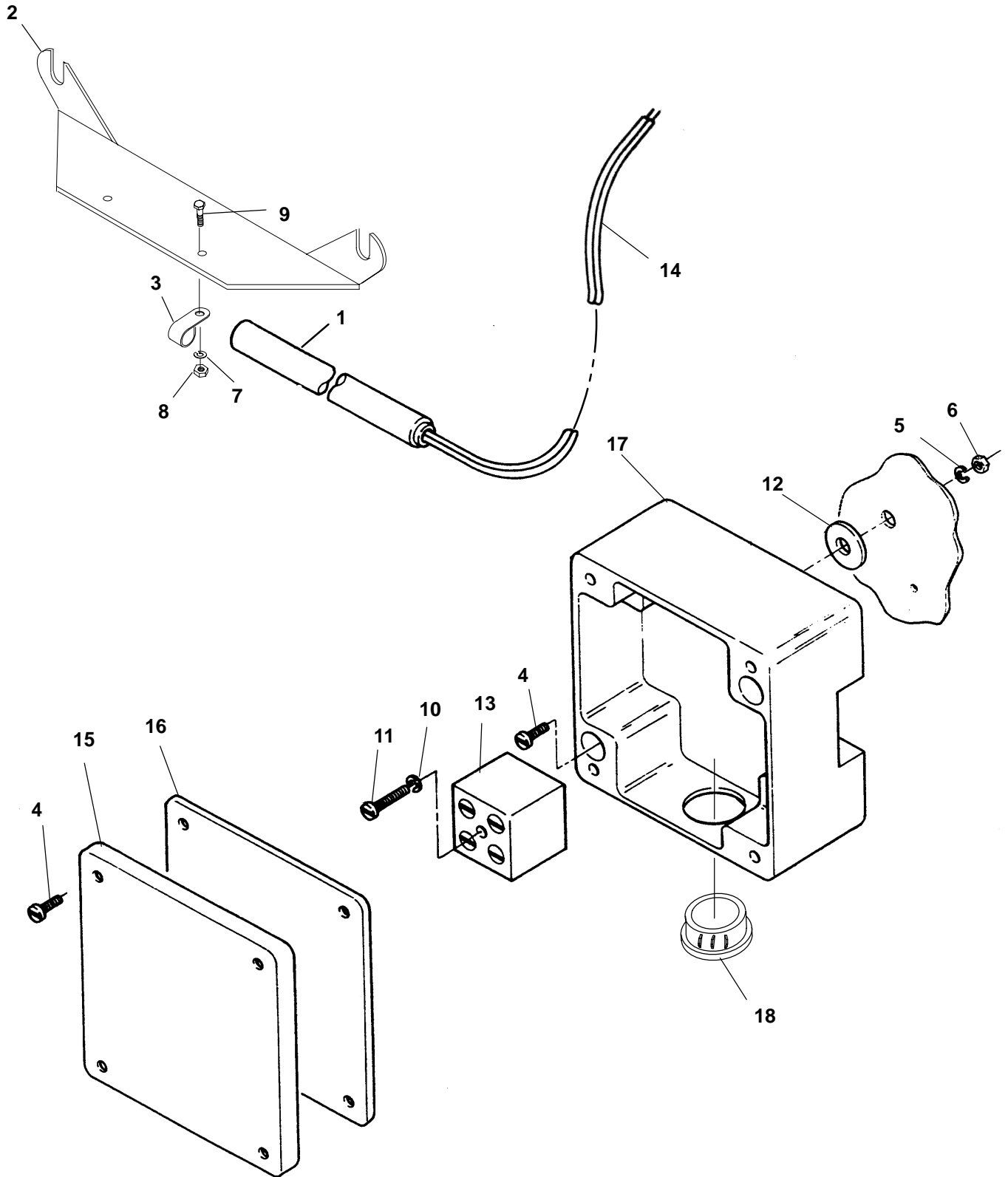


H529,530,532,546,547,555

**Control Housing
Model HC5 Generators
DFCE**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
27			Nut, Hex	42	850-2010	4	Washer, Lock – Spring (M10)
	870-0550-09	2	Spec A (3/8-16)				Spec A
	870-2056	2	Begin Spec B (M10)	43	526-2120	1	Washer, Flat (M10) Spec A
28			Plug, Hole (Fits 3/8" Hole)	44			Cover, Side – Upper
	517-0131	2	Spec A – Sets With		301-9511	2	Without Circuit Breaker,
			PowerCommand Control				Entrance Box or BUS Box
			Begin Spec B		301-9511	1	With Circuit Breaker,
	517-0131	1	Sets With Detector				Entrance Box or BUS Box
			Control	45			Screw, Self-Locking – Hex
	517-0131	3	Sets With				Washer Head (M6 x 20mm)
			PowerCommand				Sets With Detector
			Control				Control
29			Isolator, Vibration		821-6002-03	16	Without Circuit
	402-0508	4	Spec A				Breaker, Entrance
	402-0729	4	Begin Spec B				Box or BUS Box
30			Nut, Hex		821-6002-03	8	With Circuit Breaker,
	870-0550-05	8	Spec A (1/4-20)				Entrance Box or
	870-2054	8	Begin Spec B (M6)				BUS Box
31			Angle, Stiffener – Sets With				Sets With
			Detector Control				PowerCommand
	319-2787	1	Spec A				Control
	319-3291	1	Begin Spec B		821-6002-03	26	Without Circuit
32	508-1109	–	Edging – Bulk (Order By The				Breaker, Entrance
			Foot – 1 Foot Required)				Box or BUS Box
			Sets With Detector Control		821-6002-03	18	With Circuit Breaker,
33	191-2034-03	4	Spacer, Mounting				Entrance Box or
34			Washer, Flat				BUS Box
	526-0115	2	Spec A (5/16")	46	319-2220	1	Cover, Control Box – Sets
	526-2100	2	Begin Spec B (M8)				With PowerCommand
35			Washer, Lock – Spring				Control
	850-0045	1	Spec A (5/16")	47			Screw, Self-Locking – Hex
	850-2006	1	Begin Spec B (M8)				Washer Head
36	856-0008	1	Washer, Lock – EIT (5/16")		821-5004-03	8	Spec A (3/8-16 x 1")
37	526-0128	4	Washer, Flat (7/16" ID x		821-6004-01	8	Begin Spec B (M10 x
			1-1/2" OD x 1/4" Thk)				20mm)
38			Screw, Cap – Hex Head	48			Screw
	800-0054	4	Spec A (3/8-16 x 2")		800-2085	1	Spec A – Cap – Hex Head
	800-2091	4	Begin Spec B (M10 x				(M10 x 20mm)
			50mm)		821-6004-01	1	Begin Spec B –
39	337-0090-01	1	Strap, Ground				Self-Locking Hex –
40	856-0010	1	Washer, Lock – EIT (3/8")				Washer Head (M10 x
41	517-0135	1	Plug, Hole (Fits 5/8" Hole)				20mm)
			Begin Spec B				

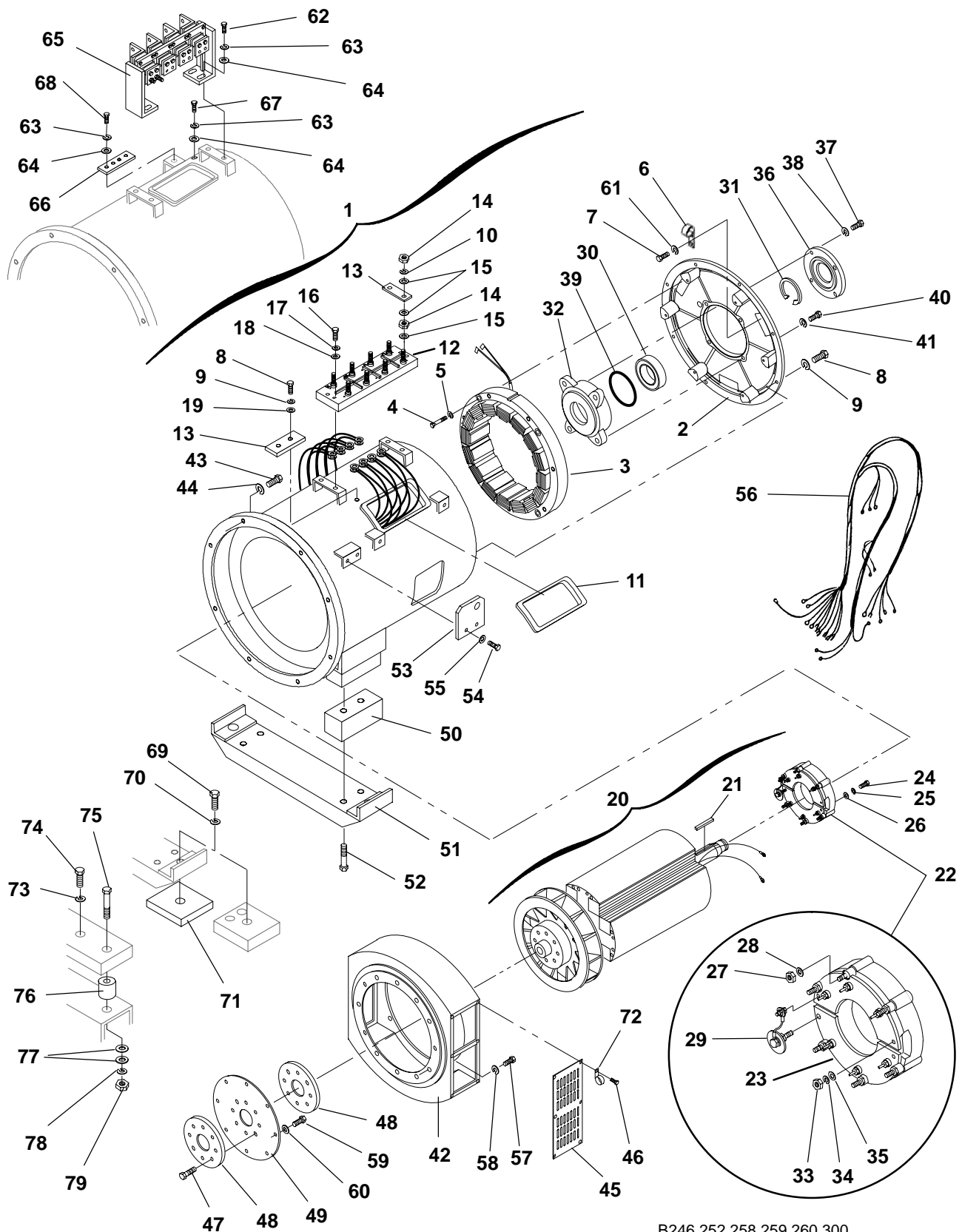
Generator Heater



Generator Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cartridge, Heater	5	850-2004	2	Washer, Lock – Spring (M4)
			150 Watt	6	860-2005	2	Nut, Hex (M4)
	333-0438-03	2	120 Volt	7	850-2005	2	Washer, Lock – Spring (M5)
	333-0438-04	2	240 Volt	8	860-2006	2	Nut, Hex (M5)
			300 Watt	9	800-2008	2	Screw, Cap – Hex Head (M5 x 16mm)
	333-0438-05	1	120 Volt	10	850-2003	1	Washer, Lock – Spring (M3)
	333-0438-06	1	240 Volt	11	822-3047	1	Screw, Machine – Pan Head (M3 x 20mm)
2			Bracket, Mounting – Heater	12	508-0228	1	Grommet
	232-3850	1	Sets With Model HC4 Generator	13	332-3023	1	Block, Terminal
	232-3849	1	Sets With Model HC5 Generator	14	898-1254-25	1	Sleeving – Heater Leads (59")
3			Clamp, Loop	15	330-0141-03	1	Cover, Box
	332-3024-14	4	Sets With Model HC4 Generator	16	330-0141-04	1	Gasket, Cover
	332-3024-14	2	Sets With Model HC5 Generator	17	330-0142	1	Box, Terminal
4	822-3075	6	Screw, Machine – Slotted Pan Head (M4 x 16mm)	18	517-0021	1	Plug, Dot Button

Generator



B246,252,258,259,260,300,
301,302,324,325,326,392

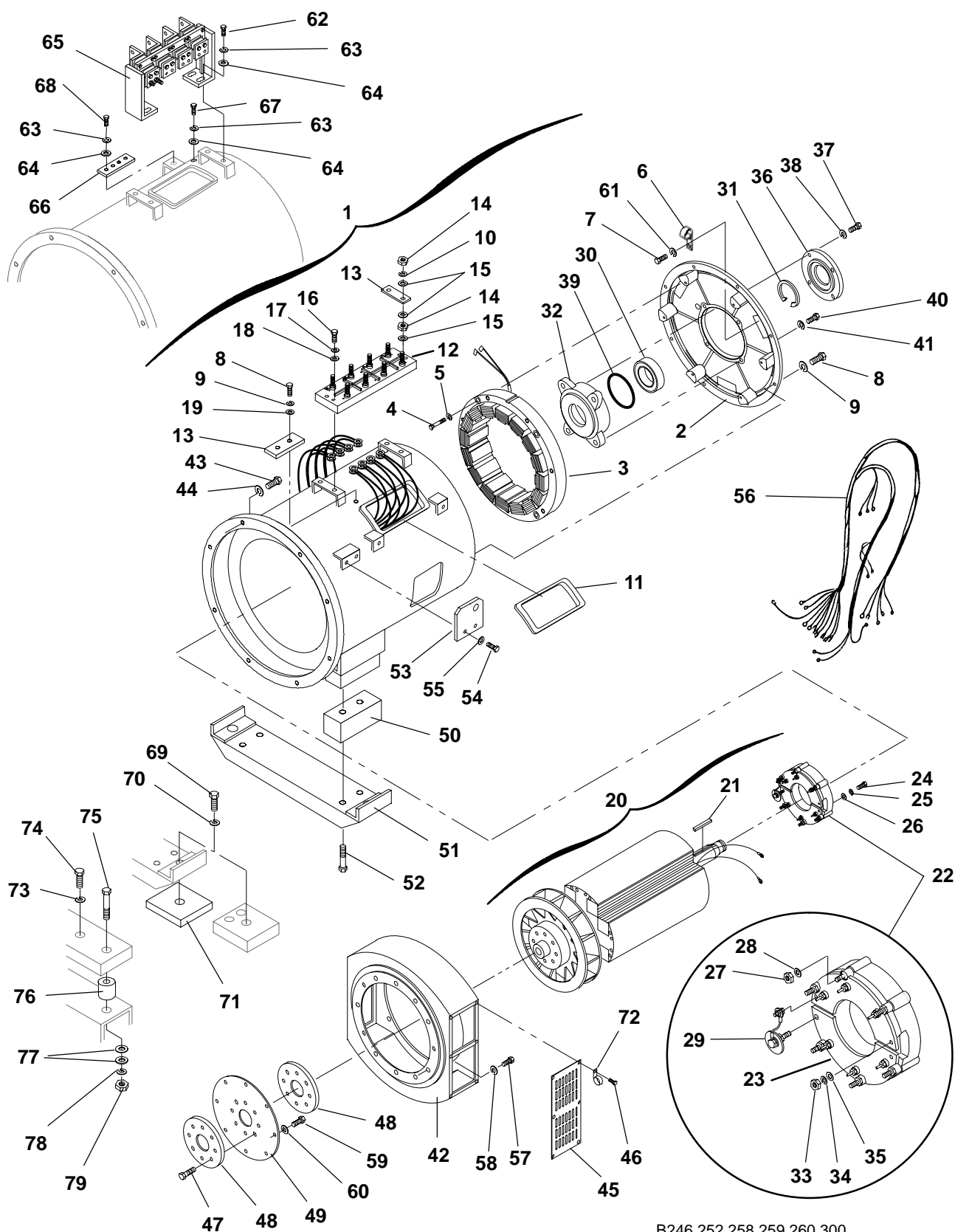
Generator

Note: Model HC4 and HC5 generators can be determined by referring to the “ Generator Rotor and Stator Part Numbers” page in this catalog.

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	–	1	Stator Assembly, Generator – Complete (See Separate Page For Part Numbers) (Includes Parts Marked *)	22			#Rotor Assembly, Exciter (Includes Parts Marked +)
				201–3460	1		Model HC4 Generators
				201–3508	1		Model HC5 Generators
2			*Bell, End	23	357–0093	1	#+ Rectifier Assembly (Includes Diodes and Varistor)
	211–0431	1	Model HC4 Generators				
	211–0457	1	Model HC5 Generators	24			#+ Screw, Cap – Hex Head
3			*Stator, Exciter	800–2042	4		Model HC4 Generators (M6 x 60mm)
	220–4248	1	Model HC4 Generators	800–2045	4		Model HC5 Generators (M6 x 75mm)
	220–4389	1	Model HC5 Generators				
4			*Screw, Cap – Hex Head	25	850–2006	4	#+ Washer, Lock – Spring (M6)
	800–2066	6	Model HC4 Generators (M8 x 65mm)	26	526–2080	4	#+ Washer, Flat (M6)
	800–2069	6	Model HC5 Generators (M8 x 80mm)	27	870–2064–02	6	#+ Nut, Hex (M5)
5	850–2008	6	*Washer, Lock – Spring (M8)	28	526–2060	6	#+ Washer, Flat (M5)
6	425–1799	1	*Clamp, Cable	29	249–0797	1	Kit, Diode (Includes Varistor And All Diodes)
7	800–2004	1	*Screw, Cap – Hex Head (M5 x 12mm)	30	510–0168	1	#Bearing, Ball
				31	518–0018	1	#Ring, Retaining
8			*Screw, Cap – Hex Head (M10 x 35mm)	32	232–3518–01	1	#Housing, Bearing
	800–3017–39	9	Model HC4 Generators	33	860–2006	2	#Nut, Hex (M5)
	800–3017–39	8	Model HC5 Generators	34	850–2005	2	#Washer, Lock – Spring (M5)
9			*Washer, Lock – Spring (M10)	35	526–2060	2	#Washer, Flat (M5)
	850–0114–55	9	Model HC4 Generators	36	232–3981–01	1	#Cover, Bearing Housing
	850–0114–55	8	Model HC5 Generators	37	800–2087	4	#Screw, Cap – Hex Head (M10 x 30mm)
10	850–2012	8	*Washer, Lock – Spring (M12) Model HC4 Generators	38	850–2010	4	#Washer, Lock – Spring (M10)
11			*Grommet	39	509–0266–03	1	#O–Ring
	508–0306	2	Model HC4 Generators	40	800–2091	4	Screw, Cap – Hex Head (M10 x 50mm)
	508–1086	1	Model HC5 Generators	41	850–2010	4	Washer, Lock – Spring (M10)
12	232–3482	1	*Panel, Terminal – Model HC4 Generators	42			Adapter, Generator
13	332–3009	4	*Link, Terminal – Model HC4 Generators		231–0322	1	Model HC4 Generators
					231–0345	1	Model HC5 Generators
14	860–2010	16	*Nut, Hex (M12) Model HC4 Generators	43			Screw
15	526–2140	24	*Washer, Flat (M12) Model HC4 Generators		800–3017–56	6	Cap – Hex Head (M12 x 40mm)
16	800–2061	4	*Screw, Cap – Hex Head (M8 x 40mm) Model HC4 Generators		725–1103	2	Socket Head (M12 x 40mm) (Bottom Holes)
17	850–2008	4	*Washer, Lock – Spring (M8) Model HC4 Generators	44	850–0114–56	8	Washer, Lock – Spring (M12)
18	526–2100	4	*Washer, Flat (M8) Model HC4 Generators	45			Guard, Fan
19	526–2120	1	*Washer, Flat (M10) Model HC4 Generators		234–0889	2	Model HC4 Generators
20	–	1	Rotor Assembly, Generator – Complete (See Separate Page For Part Numbers) (Includes Parts Marked #)		234–0944	2	Model HC5 Generators
21			#Key	Continued...			
	515–0300–01	1	Model HC4 Generators				
	515–0300–06	1	Model HC5 Generators				

* – Parts Included In Generator Stator Assemblies
– Parts Included In Generator Rotor Assemblies
+ – Parts Included In Exciter Rotor Assemblies

Generator



B246,252,258,259,260,300,
301,302,324,325,326,392

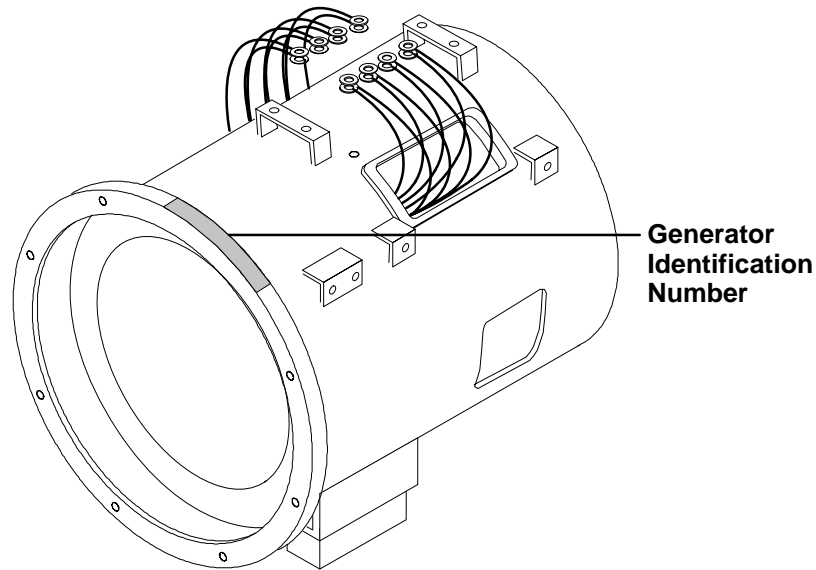
Generator

Note: Model HC4 and HC5 generators can be determined by referring to the “ Generator Rotor and Stator Part Numbers” page in this catalog.

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
46	821-6001-02	12	Screw, Self-Locking – Hex Washer Head (M5 x 12mm)	59	805-0032	8	Bolt, Place (1/2–13 x 1–1/4")
47	720-1146	8	Screw, Cap – Hex Head Model HC4 Generators (M20 x 60mm)	60	526-0035	8	Washer, Flat (1/2")
	720-1148	8	Model HC5 Generators (M20 x 70mm)	61	850-2005	1	*Washer, Lock – Spring (M5)
48	232-3520-01	2	Spacer, Drive Disc Model HC4 Generators (3/8" Thk)	62	800-3017-39	4	*Screw, Cap – Hex Head (M10 x 35mm) Model HC5 Generators
	232-3520-01	1	Model HC5 Generators 3/8" Thk	63	850-0114-55	6	*Washer, Lock – Spring (M10) Model HC5 Generators
	232-3775-02	1	1" Thk	64	526-2120	6	*Washer, Flat (M10) Model HC5 Generators
49	232-3522	4	Disc, Drive	65	232-3782	1	*Block, Main Terminal – Model HC5 Generators
50	232-3524	2	Spacer, Generator Foot – Model HC4 Generators	66	232-3785-02	3	*Bar, Terminal Link – Model HC5 Generators
51	232-3722	1	Foot, Generator "C" Channel Stock (7" x 26–7/8") (Illustrated)	67	800-2084	1	*Screw, Cap – Hex Head (M10 x 16mm) Model HC5 Generators
	232-3966	1	Bar Stock 6" x 35" (12 Holes)	68	800-2090	1	*Screw, Cap – Hex Head (M10 x 45mm) Model HC5 Generators
	232-4011	1	6" x 26–3/8" (6 Holes)	69	800-0579	2	Screw, Cap – Hex Head (1–8 x 2–3/4")
52	800-2244	4	Screw, Cap – Hex Head Used With "C" Channel Generator Foot (M24 x 80mm)	70	850-0086	2	Washer, Lock – Spring (1")
			Used With Bar Stock Generator Foot	71	403-3338	2	Pad, Generator Mounting
	800-2247	4	M24 x 100mm	72	332-3196	1	Clamp, "J"
	800-2242	4	M24 x 70mm	73	850-0060	2	Washer, Lock – Spring (1/2")
53	232-3523	2	Bracket, Generator Lifting	74	800-0093	2	Screw, Cap – Hex Head (1/2–13 x 1–3/4")
54	800-3017-55	4	Screw, Cap – Hex Head (M12 x 35mm)	75	800-0307	2	Screw, Cap – Hex Head (1–8 x 5")
55	850-0114-56	4	Washer, Lock – Spring (M12)	76	403-4115	2	Spacer, Generator Mounting
56	338-3348	1	Harness, Wiring (5 Wire, 23") (4,5,6,7,8 to 4,5,6,7,8) (Not Used On All Models)	77	526-0435	4	Washer, Flat (1")
57	800-0073	12	Screw, Cap – Hex Head (7/16–14 x 1–1/2")	78	850-0086	2	Washer, Lock – Spring (1")
58	850-0055	12	Washer, Lock – Spring (7/16")	79	862-0042	2	Nut, Hex (1–8)

* – Parts Included In Generator Stator Assemblies
– Parts Included In Generator Rotor Assemblies
+ – Parts Included In Exciter Rotor Assemblies

Generator Rotor and Stator Part Numbers

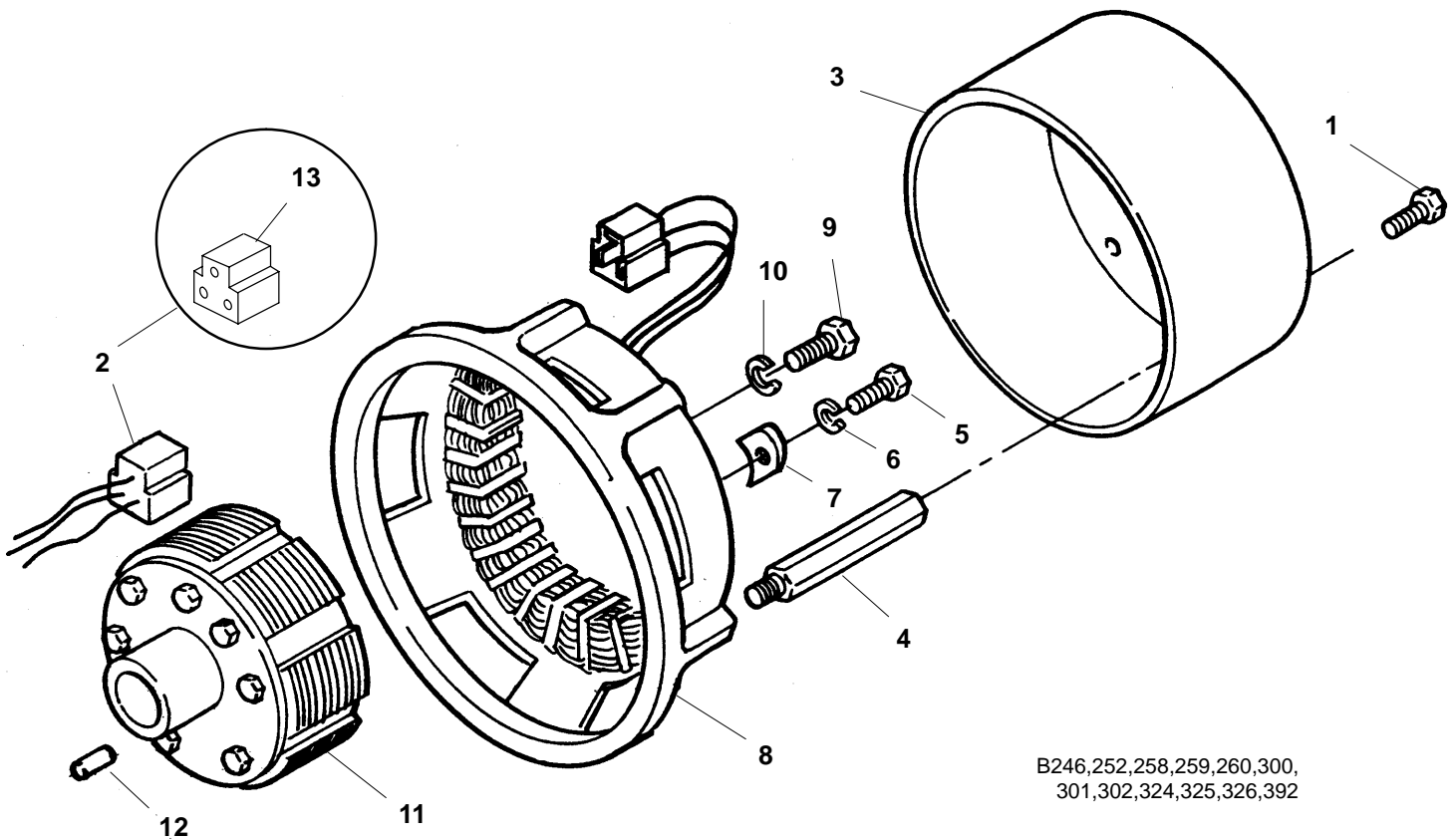


Service replacement part numbers for the main generator stator and rotor can be determined by locating the Onan 249-XXXX-XX generator identification number. This number is stamped on the engine end of the main stator adapter ring in the area shown in the above illustration. Find the corresponding number in the chart below for the stator and rotor replacement part numbers and also to determine the generator model number. For COMPLETE generator replacement use the 249-XXXX-XX Onan identification number.

Component parts that are included with the main stator and rotor are listed on the “Generator” pages of this catalog.

Onan Identification Number	Generator Model	Stator Assembly Part Number	Rotor Assembly Part Number
249-0168-03	HC434D	220-4252-02	201-3459-02
249-0168-04	HC434E	220-4252-03	201-3459-03
249-0168-05	HC434F	220-4252-04	201-3459-04
249-0169-01	HC534C	220-4398-01	201-3505-01
249-0171-03	HC434D	220-4252-08	201-3459-02
249-0171-04	HC434E	220-4252-09	201-3459-03
249-0171-05	HC434F	220-4252-10	201-3459-04
249-0172-01	HC534C	220-4398-05	201-3505-01
249-5080-23	HC434D	220-4468-02	201-3459-02
249-5080-24	HC434E	220-4468-03	201-3459-03
249-5080-25	HC434F	220-4468-04	201-3459-04
249-5081-23	HC434D	220-4468-08	201-3459-02
249-5081-24	HC434E	220-4468-09	201-3459-03
249-5081-25	HC434F	220-4468-10	201-3459-04
249-5083-01	HC534C	220-4474-01	201-3505-01
249-5084-01	HC534C	220-4474-05	201-3505-01
249-5100-01	HC534C	220-4474-01	201-3505-01
249-5100-02	HC534D	220-4474-02	201-3505-02
249-5101-01	HC534C	220-4474-05	201-3505-01

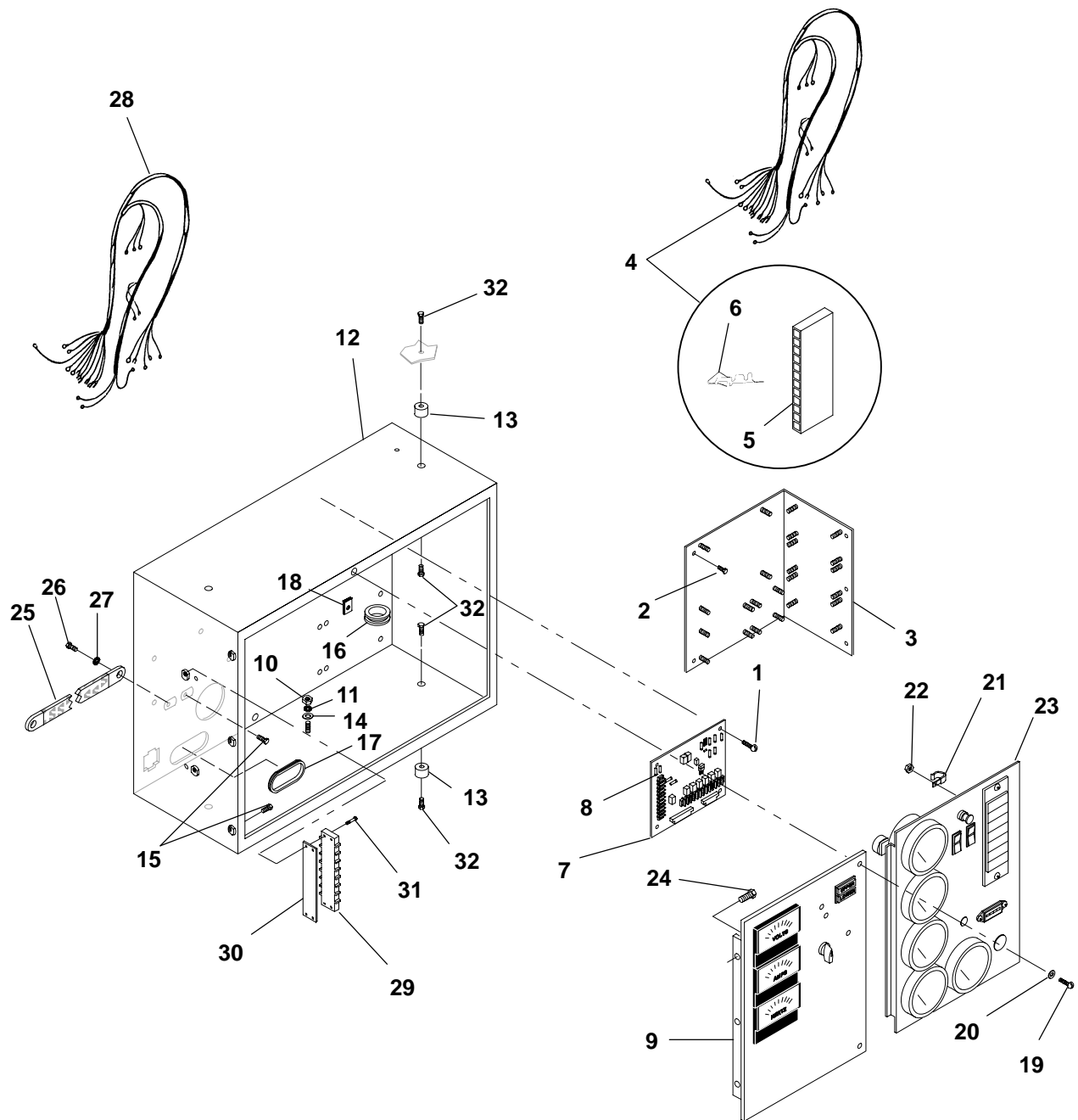
Permanent Magnet Generator



Note: Model HC4 and HC5 generators can be determined by referring to the “Generator Rotor and Stator Part Numbers” page in this catalog.

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-6001-02	3	Screw, Self-Locking – Hex Washer Head (M5 x 12mm)	9			Bolt, Hex Head
2	338-2508	1	Harness, Wiring – PMG (3 Wire, 30”) (Includes Housing Connector) (P2, P3, P4 to P2, P3, P4)	815-0761	1		Model HC4 Generators (M10 x 110mm)
3	234-0890	1	Cover	815-0825	1		Model HC5 Generators (M10 x 120mm)
4	232-3527	3	Spacer, Mounting	10	850-2010	1	Washer, Lock – Spring (M10)
5	800-3017-18	4	Screw, Cap – Hex Head (M8 x 16mm)	11			Rotor, Exciter – PMG
6	850-0114-54	4	Washer, Lock – Spring (M8)	201-3455	1		Model HC4 Generators
7	232-3526	4	Clamp, Stator	201-3510	1		Model HC5 Generators
8			Stator, Exciter – PMG (Includes 4 Each Of 232-3527 Mounting Spacers)	12	775-0049	1	Pin
	220-4249	1	Model HC4 Generators	13	332-3021	1	Connector, Housing (3 Place)
	220-4396	1	Model HC5 Generators				

Detector Control

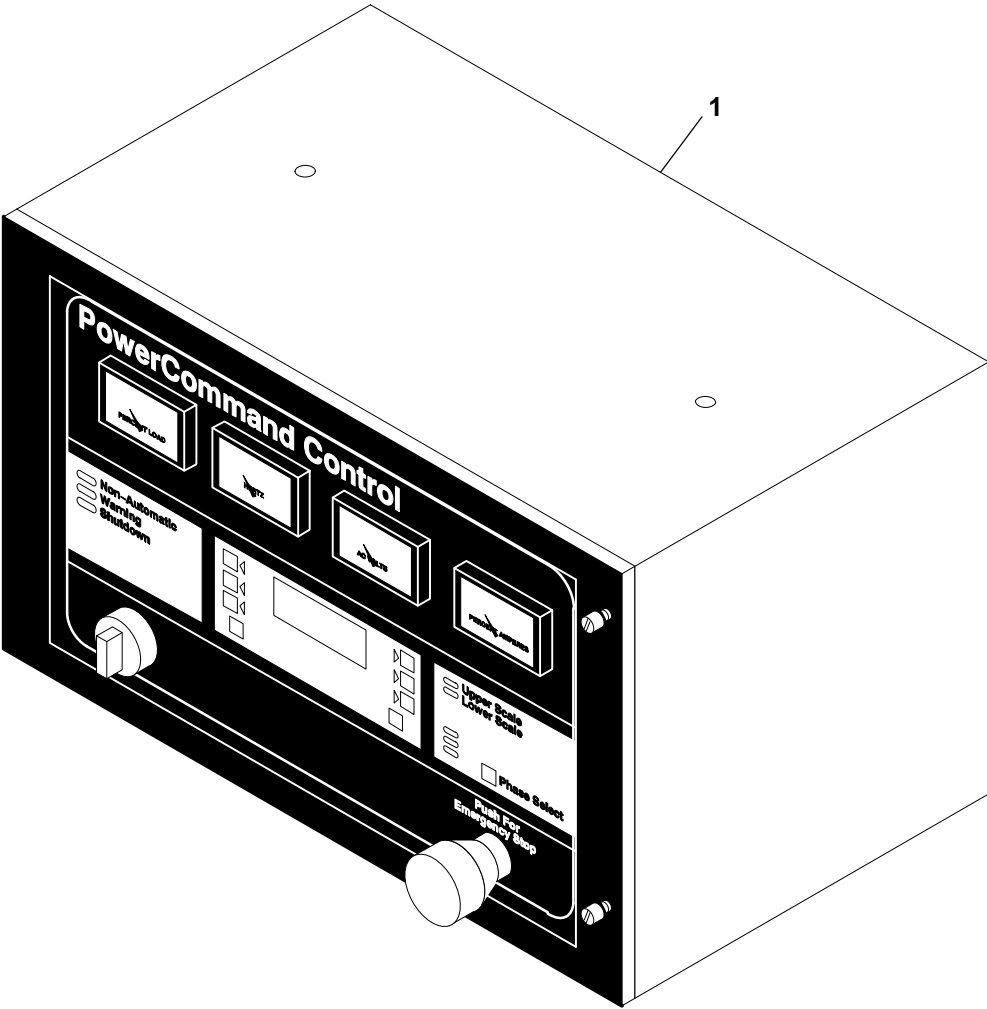


H461,462,529,546,547,
K001,994

Detector Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0388	4	Screw, Pan Head – Cross Recessed (#6–32 x 1/2")	13	402-0527	4	Isolator, Vibration
2	821-0004	5	Screw, Self-Locking – Hex Washer Head (#10–32 x 5/16")	14	526-0018	1	Washer, Flat (1/4")
3	301-8851	1	Bracket, Mounting – Used On Some Early Models	15	821-5000-05	3	Screw, Self-Locking – Hex Washer Head (#10–32 x 1/2")
4	338-3252	1	Harness, Wiring – DC Control Door Assembly to Engine Monitor Board (Includes Connector Housing and Contact Pins)	16	508-0001	1	Grommet (Fits 1–1/16" Hole)
5	323-1308	1	Housing, Connector (12 Place) (J4)	17	508-0051	1	Grommet (Fits 2" Hole)
6	323-1302	11	Pin, Contact	18	406-0332	2	Receptacle, Fastener
7			Board Assembly, Printed Circuit – Engine Monitor (Includes Fuses) (A11)	19	406-0333	2	Stud, Fastener
	300-4295	1	7 Light Control	20	406-0334	2	Washer, Stud Retainer
	300-4297	1	12 Light Control	21	332-0052	2	Clip, Wire
8			Fuse	22	870-0131	5	Nut, Hex – W/ET (#10–32)
			Cylinder Shaped (Used On Some Early Models)	23	–	1	Door, Assembly – Control – DC (See Separate Page For Components)
	321-0270	2	20 Amp (F1,F2)	24	821-0004	8	Screw, Self-Locking – Hex Washer Head (#10–32 x 5/16")
	321-0231	1	15 Amp (F3)	25			Strap, Ground
	321-0094	2	5 Amp (F4,F5)		337-0049	1	Sets Without AC Meters
			U Shaped		337-0049	3	Sets With AC Meters
	321-0307-03	2	5 Amp (Tan) (F4, F5)	26	800-0024	3	Screw, Cap – Hex Head (5/16–18 x 1/2")
	321-0307-06	1	15 Amp (Light Blue) (F3)	27	856-0008	4	Washer, Lock – EIT (5/16")
	321-0307-07	2	20 Amp (Yellow) (F1, F2)	28	338-2278	1	Harness, Wiring – AC Control Door Assembly to TB21
9	–	1	Door Assembly – Control – AC (See Separate Page For Components)				Terminal Block (Includes TB21 Terminal Block)
10	871-0015	1	Nut, Hex (1/4–20)	29	332-0607	1	Block, Terminal – 12 Place (TB21)
11	853-0008	1	Washer, Lock – ET (#10)	30	332-2723	1	Strip, Marker
12			Box, Control	31	815-0901-06	2	Screw, Machine – Hex Head (#6–32 x 5/8")
			Sets Without AC Meters	32	821-0014	8	Screw, Self-Locking – Hex Washer Head (5/16–18 x 1/2")
	301-8065	1	Sets With PC Boards Mounted On 301-8851 L-Shaped Bracket				
	319-3030	1	Sets With PC Boards Mounted To Control Box				
	301-8065	1	Sets With AC Meters				

PowerCommand Control
DFBF, DFCB, DFCC Begin Spec K
DFCE

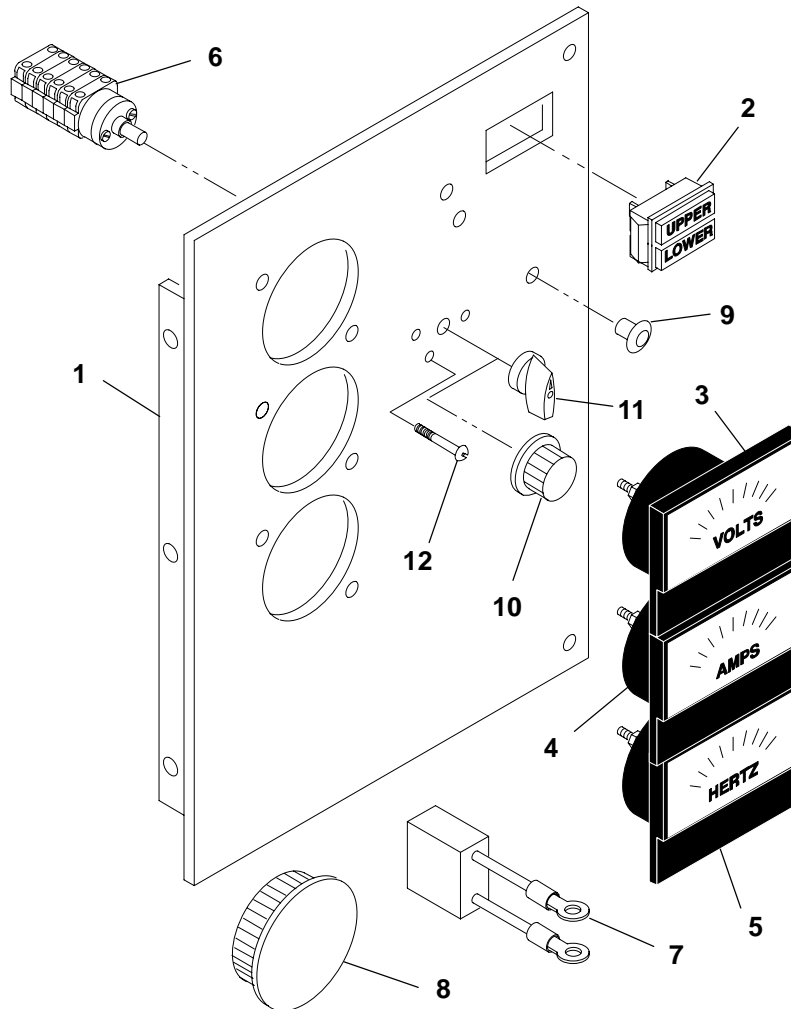


H530,532,555

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	—	1	Control, PowerCommand

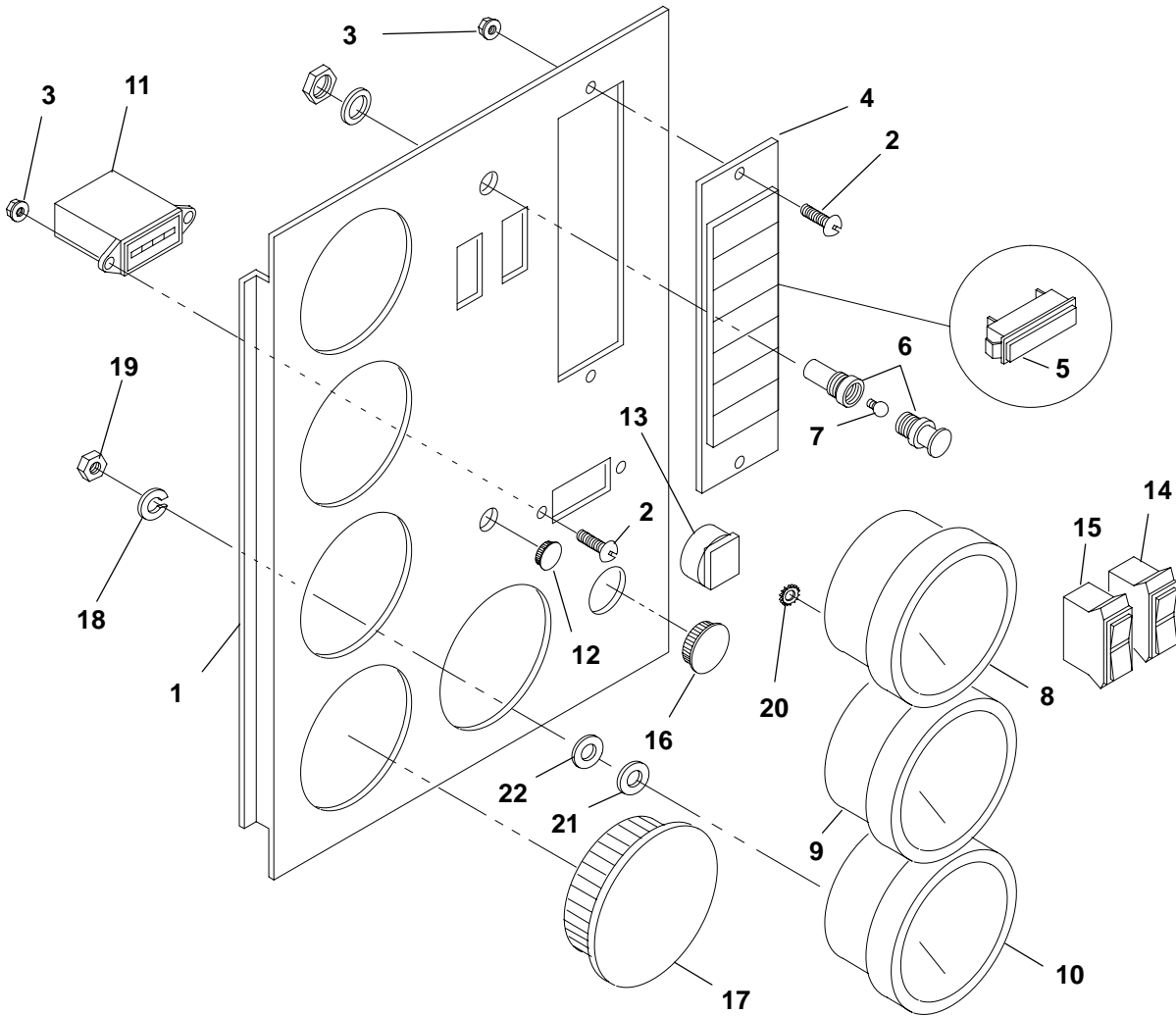
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Note: For PowerCommand Control Service Replacement Parts, Order PowerCommand Control For Generator Sets Parts Catalog Number 960–0205.			

AC Control Door Assembly Generator Sets With Detector Control



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9054-01	1	Door, Control – AC	6	308-1052	1	Switch, Rotary – Voltmeter/
	301-9054-04	1	With Four Meter Holes				Ammeter (Includes Knob)
2	322-0363	1	Light, Indicator – Upper/	7	355-0189	1	(S21)
			Lower Scale (DS21, DS22)				Capacitor – Voltmeter
3			Voltmeter (M21)	8	517-0302	1	(.1 Mfd., 500 WVDC) (C21)
	302-1148	1	Scale Reads 0-300/600	9	517-0131	1	Plug, Hole (Fits 2-1/4" Hole)
	302-1753	1	Scale Reads 0-750				Plug, Hole (Fits 3/8" Hole) Used
4			Ammeter (M22)				On Some Early Models
	302-1726	1	Scale Reads 0-400/800	10	303-0032	1	Knob, Rotary Switch (Earlier
	302-1727	1	Scale Reads 0-500/1000				Round Style) Used On Some
	302-1728	1	Scale Reads 0-600/1200				Early Models
	302-1729	1	Scale Reads 0-750/1500	11	308-1082	1	Knob, Rotary Switch (Later
	302-1798	1	Scale Reads 0-1000/2000				Wedge Style)
5	302-1968	1	Meter, Frequency (M23)	12	815-0875-02	3	Screw, Machine – Round Head
							(M4 x 8mm)

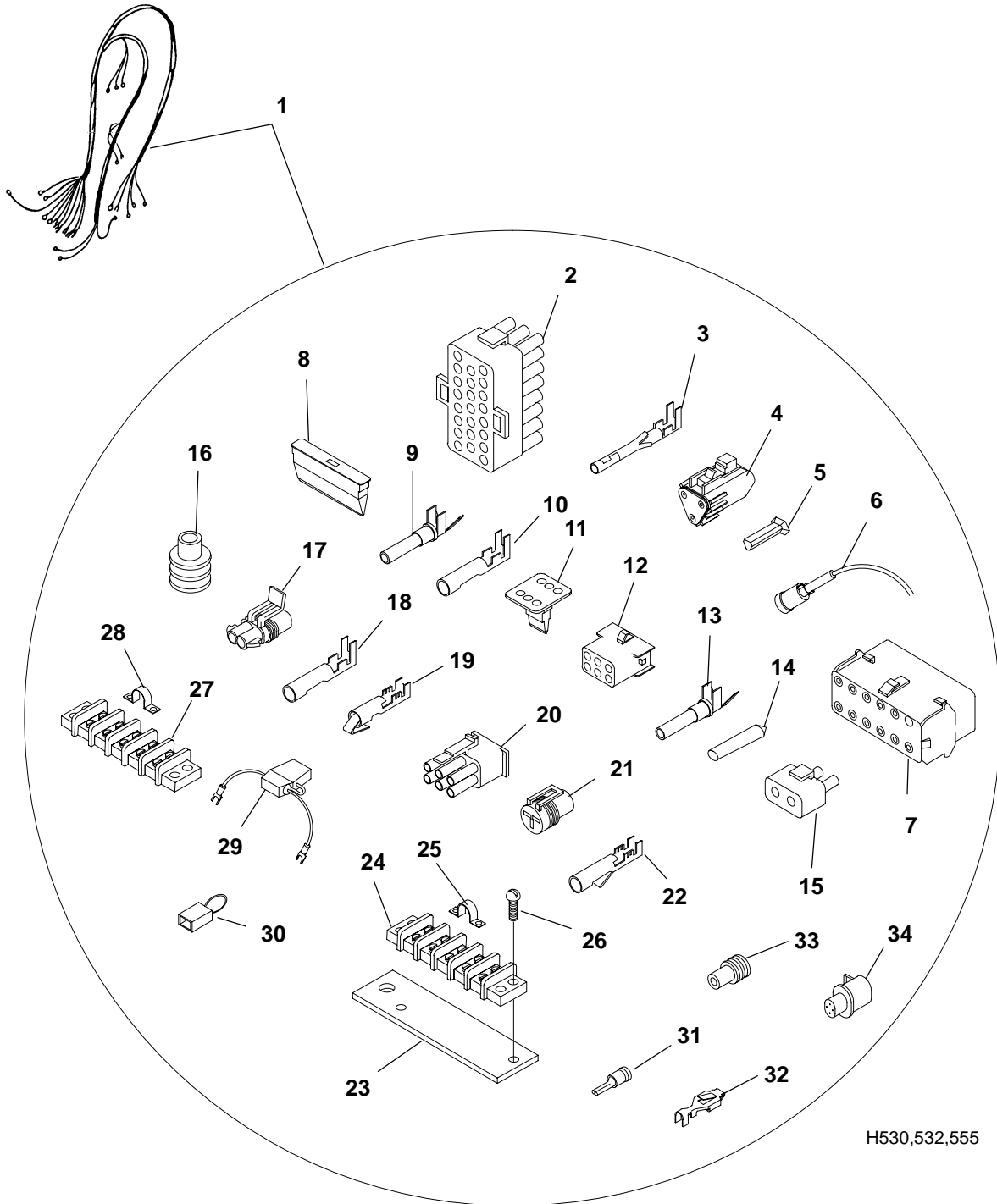
DC Control Door Assembly **Generator Sets With Detector Control**



DC Control Door Assembly Generator Sets With Detector Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Door, Control – DC	12	517-0131	1	Plug, Hole (Fits 3/8" Hole) Used
	301-9055-02	1	Doors With Three Round Gauge Holes				On Some Early Models
	301-9055-01	1	Doors With Five Round Gauge Holes	13	193-0250	2	Resistor (Mounted on Oil Pressure and Water Temperature Gauges) (R12, R13)
2	815-0385	4	Screw, Machine – Round Head (#6-32 x 1/2")	14	308-1010	1	Switch, Rocker – Lamp Test/Reset Panel Lamp – Preheat (S11)
3	870-0183	4	Nut, Hex – W/ET (#6-32)	15	308-1011	1	Switch, Rocker – Run/Stop/Remote (S12)
4			Light Assembly, Indicator (Includes Wiring Harness and Connector Housing) (A12)	16	517-0137	1	Plug, Hole (Fits 7/8" Hole) Used On Some Early Models
	322-0359-02	1	7 Light Assembly	17	517-0301	1	Plug, Hole (Fits 2" Hole) Quantity Used As Required – Used On Some Early Models
	322-0360-02	1	12 Light Assembly				
5	322-0369-02	1	Light, Indicator – Replacement	18	850-0030	8	Washer, Lock – Spring (#10)
6	322-0361	1	Light, Panel (DS11)	19	871-0010	16	Nut, Hex – Brass (#10-32)
7	322-0017	1	Bulb, Panel Light – Replacement	20	853-0008	1	Washer, Lock – ET (#10)
8	193-0466	1	Gauge, Oil Pressure (M11)	21	526-0409	8	Washer, Nylon (3/8" OD x .194" ID x 1/8" Thk)
9	193-0351	1	Gauge, Water Temperature (M12)	22	526-0049	16	Washer, Flat (#10)
10	302-1642	1	Voltmeter (M13)				
11	302-0885	1	Meter, Time Totalizing (M14)				

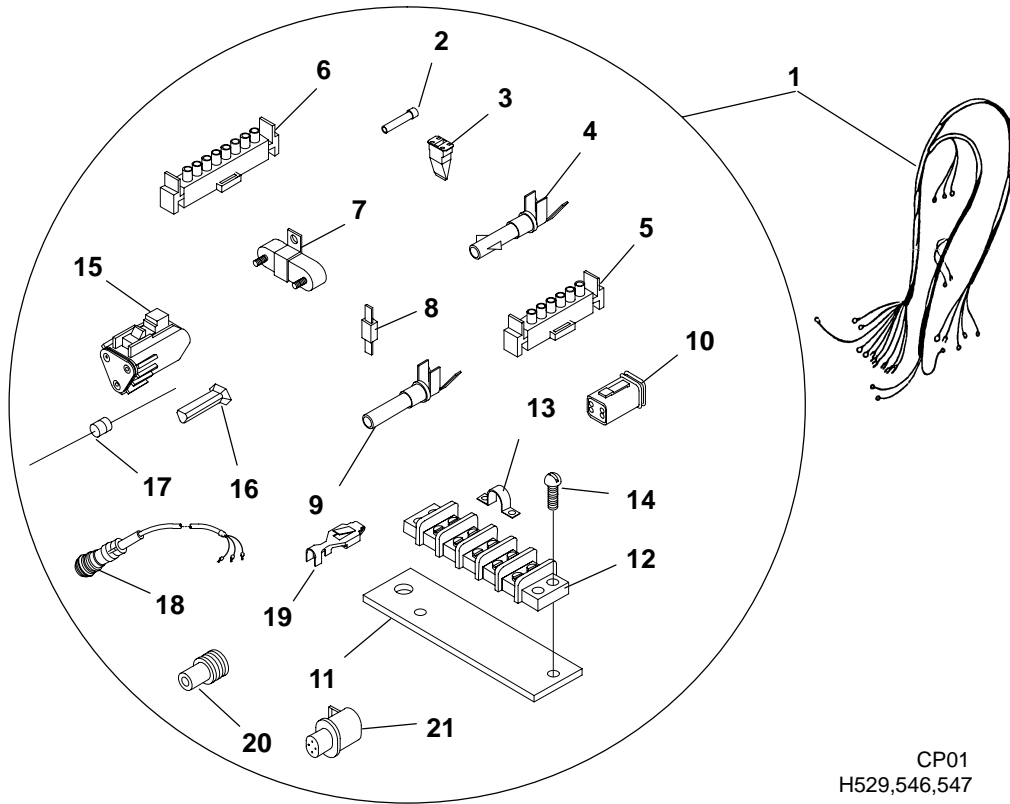
**Wiring Harness
Engine to Control
Generator Sets With PowerCommand Control
Begin Spec K**



**Wiring Harness
Engine to Control
Generator Sets With PowerCommand Control
Begin Spec K**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – Engine To Control – Generator Sets With PowerCommand Control (Includes All Parts Listed Below Except As Noted In The Description)	15	323-1637	1	Socket, Connector (2 Place) (E6)
	338-2604	1	DFBF, DFCB, DFCC Spec K and L	16	323-1445	3	Seal (Used In E2, E4, E6)
	338-3392	1	DFBF, DFCB, DFCC Spec M Through S, DFCE Spec A Through C	17	323-1540	2	Socket, Connector (2 Place) (E2, E4)
	338-3760	1	DFBF, DFCB, DFCC Begin Spec T, DFCE Begin Spec D	18	323-1444	2	Socket, Contact (Used In E6)
2			Plug, Connector (23 Place) Colored Grey (P5)	19	332-3096-01	4	Socket, Contact (Used In E2, E4)
	323-1605-03	1	Colored Natural (P4, P6)	20	323-1643-01	1	Plug, Connector (6 Place) (P10)
	323-1605-02	2	Socket, Contact (Used In P4, P5, P6)	21	323-1666	1	Socket, Connector (3 Place) (E1)
3	323-1614-01	50	Plug, Connector (3 Place) DFBF, DFCB, DFCC Begin Spec M, DFCE (P3)	22	323-1667	3	Socket, Contact (Used In E1)
4	323-1493	1	Wedge – DFBF, DFCB, DFCC Begin Spec M, DFCE (Used In P3)	23			Bracket, Mounting – Terminal Marked "26" (T26)
5	323-1503	1	Cable, Magnetic Pickup (84") (Includes Indented Sockets Listed Below) (P1)		319-2006-01	1	Marked "GND" (GND-ENG)
6	338-2592-01	1	Socket, Contact		319-2006-02	1	Block, Terminal (5 Place)
	323-1614-01	3	Housing, Connector (12 Place) (J12)	24	332-0604	2	Jumper
7	323-1580	1	Wedge (Used In J12)	25	332-1043	8	Screw, Machine – Round Head – W/IT (#8-32 x 1/2")
8	323-1581	1	Pin, Contact	26	815-0538	4	Block, Terminal (5 Place) (TB-BAT)
9	323-1491	6	DFBF, DFCB, DFCC Spec K and L (Used In J12)	27	332-0604	1	Jumper (Used On TB-BAT)
	323-1491	6	DFBF, DFCB, DFCC Begin Spec M, DFCE (Used In J12, P4)	28	332-1043	3	Holder Assembly, Fuse (Used On TB-BAT) (Includes Indented Parts Listed Below)
10	323-1648	5	Socket, Contact (Used In P10)	29	321-0339	1	Holder, Fuse
11	323-1624	1	Wedge (Used In P7)		321-0325	1	Fuse – 20 Amp (Colored Yellow)
12	323-1623	1	Plug, Connector (6 Place) (P7)		321-0307-07	1	Harness Assembly, Jumper (Includes Parts Indented Below) (Used On E6)
13	323-1492	6	Socket, Contact		323-1652	1	Socket, Connector (2 Place)
	323-1492	6	DFBF, DFCB, DFCC Spec K and L (Used In P7)		323-1445	2	Seal
	332-1492	9	DFBF, DFCB, DFCC Begin Spec M, DFCE (Used In P3, P7)		323-1718	2	Pin, Contact
14	323-1615	1	Plug (Used In P4, P5, P6) (Quantity Used As Required)	31	332-3496	2	Pin, Contact – DFBF, DFCB, DFCC Begin Spec M, DFCE (Used In TB1)
				32	323-1709	4	Socket, Contact – DFBF, DFCB, DFCC Begin Spec T, DFCE Begin Spec D (Used In S7)
				33	323-1708	4	Seal – DFBF, DFCB, DFCC Begin Spec T, DFCE Begin Spec D (Used In S7)
				34	323-1765	1	Housing, Connector – DFBF, DFCB, DFCC Begin Spec T, DFCE Begin Spec D (S7)

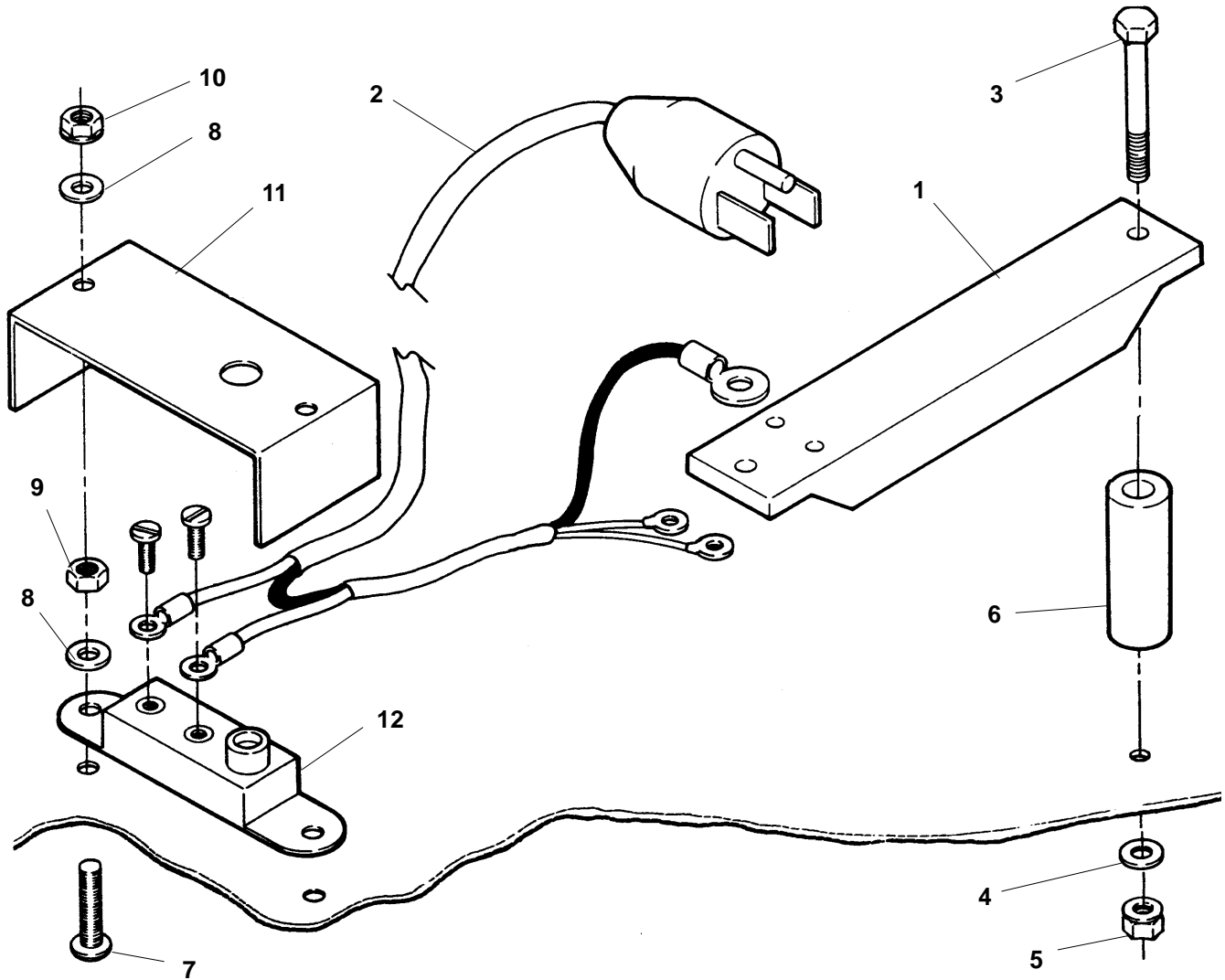
Wiring Harness Engine to Control Generator Sets With Detector Control



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – Engine To Control – Generator Sets With Detector Control	9	323-1492	6	## Socket, Contact (Used In E1, P3)
	338-2948	1	DFBF, DFCB, DFCC Spec H Through L (Includes Parts Marked *)	10	323-1546	1	## Plug, Connector (4 Place) (E1)
	338-3343	1	DFBF, DFCB, DFCC Spec M Through S, DFCE Spec A Through C (Includes Parts Marked #)	11			Bracket, Mounting – Terminal
	338-3759	1	DFBF, DFCB, DFCC Begin Spec T, DFCE Begin Spec D (Includes Parts Marked +)		319-2006-01	1	## Marked "26" (T26)
2	323-1591	1	## Plug, Seal (Used In E1)		319-2006-02	1	## Marked "GND" (GND-ENG)
3	323-1548	1	## Wedge (Used in E1)	12	332-0604	2	## Block, Terminal (5 Place)
4	323-1200	11	## Socket, Contact (Used In J1, J2)	13	332-1043	8	## Jumper
5	323-1304	1	## Housing, Connector (6 Place) (J2)	14	815-0538	4	## Screw, Machine – Round Head – W/IT (#8-32 x 1/2")
6	323-1306	1	## Housing, Connector (8 Place) (J1)	15	323-1493	1	## Plug, Connector (3 Place) (P3)
7	353-0094-01	1	## Resistor (R1)	16	323-1503	1	## Wedge (Used In P3)
8	357-0030	1	## Rectifier (CR1)	17	359-0051	1	* Diode
				18	338-1765-03	1	* Cable, Magnetic Pickup (42")
				19	323-1709	4	+ Socket, Contact (Used In S7)
				20	323-1708	4	+ Seal, Cable (Used In S7)
				21	323-1765	1	+ Housing, Connector (S7)

* – Parts Included In 338-2948 Wiring Harness
– Parts Included In 338-3343 Wiring Harness
+ – Parts Included In 338-3759 Wiring Harness

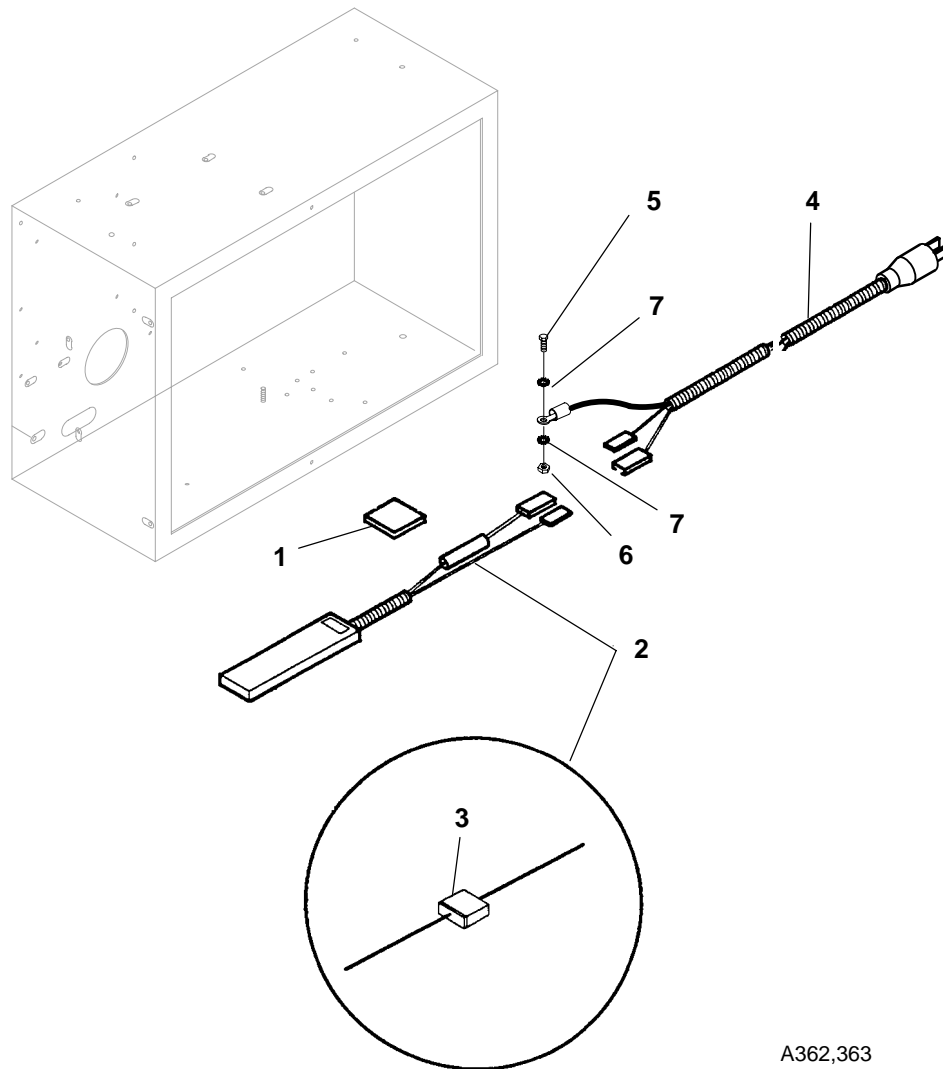
Control Heater
Generator Sets With Detector Control
DFBF, DFCB, DFCC Spec H and J



A167

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0151	1	Heater (300 Watt, 240 Volt) (HR1)	6	130-1107	2	Spacer
2	335-0161	1	Harness, Wiring (7') (P1)	7	812-0070	2	Screw, Machine – Round Head (#6-32 x 1-1/4")
3	800-0034	2	Screw, Cap – Hex Head (5/16-18 x 2-1/4")	8	854-0006	4	Washer, Lock – IT (#6)
4	526-0113	2	Washer, Flat (5/16")	9	860-0006	2	Nut, Hex (#6-32)
5	870-0257	2	Nut, Self-Locking – Hex Head (5/16-18)	10	870-0183	2	Nut, Hex – W/ET (#6-32)
				11	301-1886	1	Cover
				12	309-0128	1	Thermostat – Adjustable (S1)

**Control Heater
Generator Sets With Detector Control
DFBF, DFCB, DFCC Begin Spec K
DFCE**

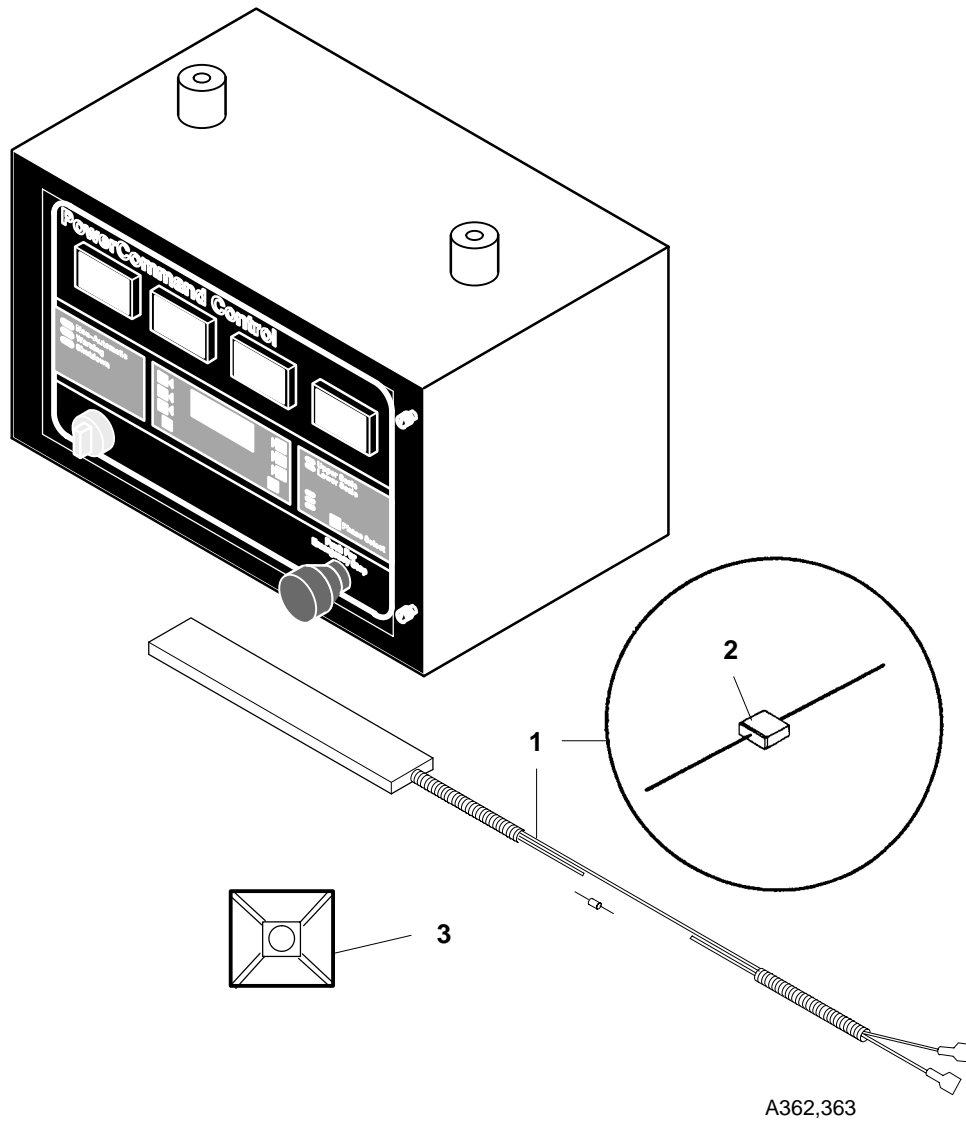


A362,363

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-3338	2	*#Mount, Cable	6	870-0257	1	*Nut, Locking – Hex (5/16–18)
2			Heater Assembly, Control – 100 Watt (Includes Rectifier)	7	856-0008	2	*Washer, Lock – EIT (5/16")
	300-4515-01	1	* 120 Volt				
	300-4515-02	1	# 240 Volt				
3	357-0114	1	*#Rectifier (3 Amp)				
4	335-0173	1	*Cable, Heater (7')				
5	800-0024	1	*Screw, Cap – Hex Head (5/16–18 x 3/4")				

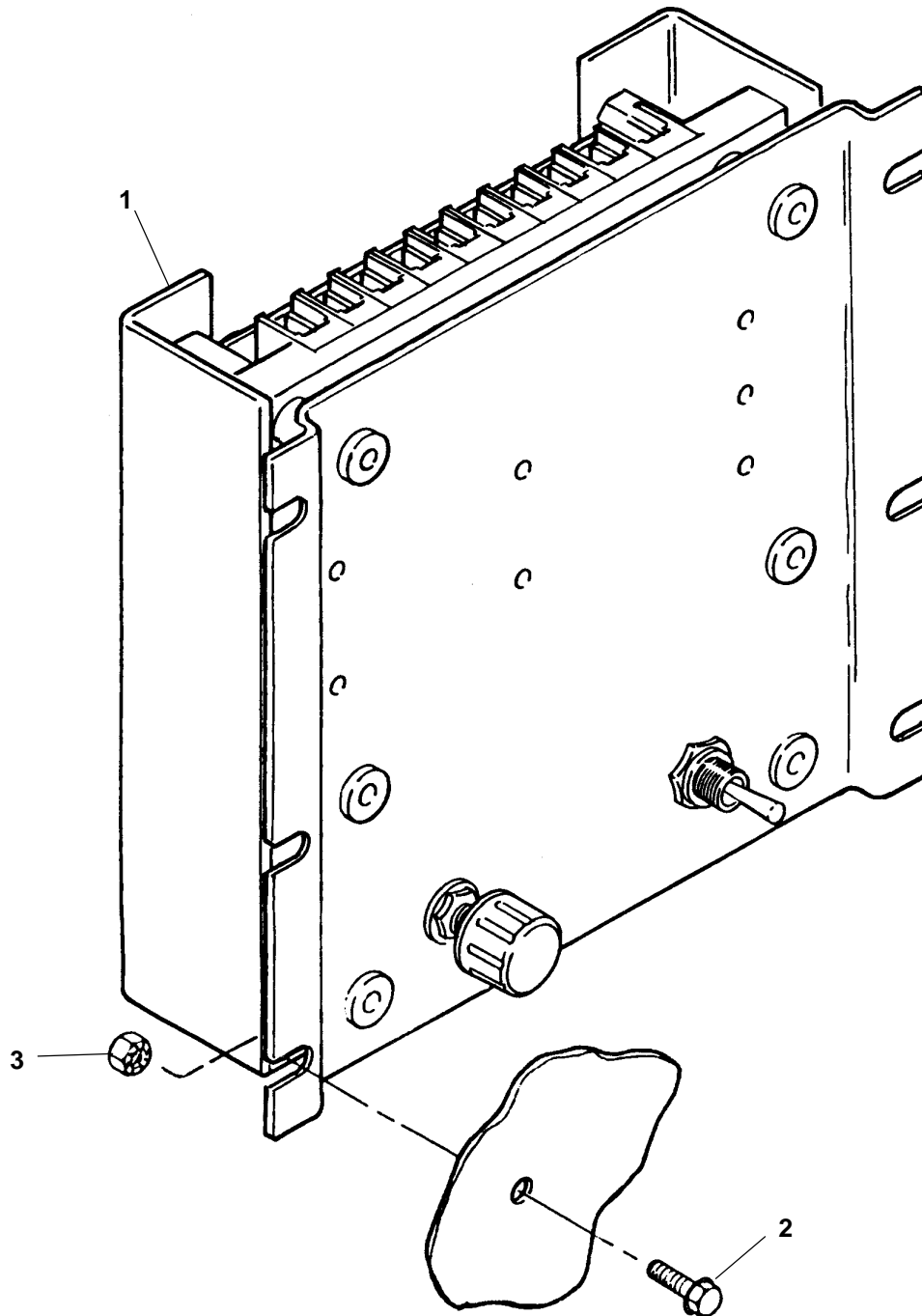
* – Parts Used in 120 Volt Control Heater Application
– Parts Used in 240 Volt Control Heater Application

Control Heater
Generator Sets With PowerCommand Control
DFBF, DFCE, DFCC Begin Spec K
DFCE



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater Assembly, Control – 100 Watt (Includes Rectifier)	2	357-0114	1	Rectifier (3 Amp)
	300-4515-01	1	120 Volt	3	332-3338	1	Mount, Cable
	300-4515-02	1	240 Volt				

Manual Voltage Regulator



K939

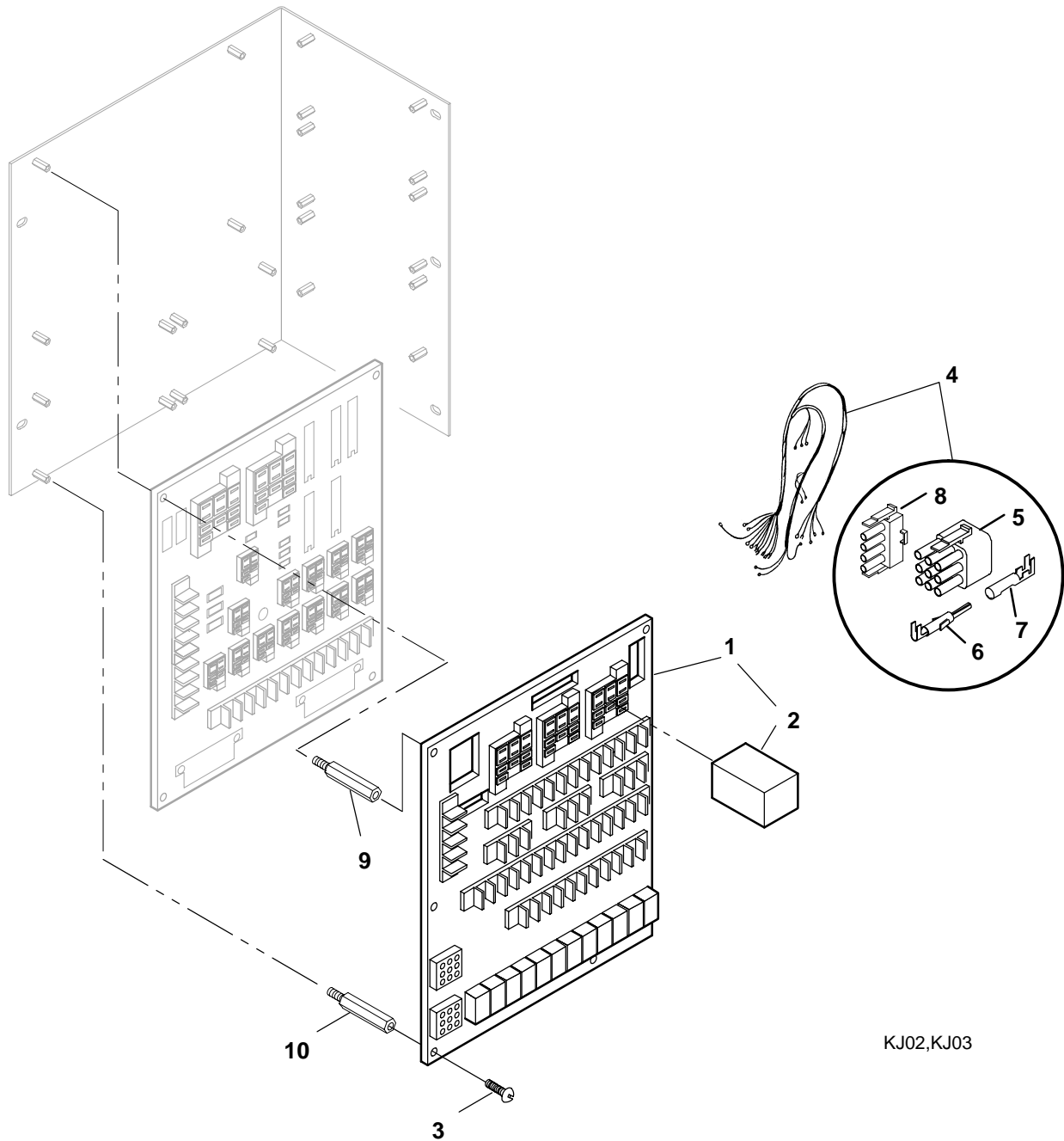
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	305-0817	1	Regulator, Voltage – Manual (VR21)	3	870-0131	4	Nut, Hex – W/ET (#10-32)
2	821-0005	4	Screw, Self-Locking – Hex Washer Head (#10-32 x 1/2")				

This exploded view diagram illustrates the assembly of a control panel into a main unit. The components are numbered as follows:

- 1**: A circular knob or dial.
- 2**: A rectangular control panel with multiple buttons and a display area.
- 3**: A mounting plate or bracket.
- 4**: A screw used to secure the mounting plate.
- 5**: A small electronic component, possibly a switch or sensor.
- 6**: A screw used to secure the control panel.
- 7**: A screw used to secure the control panel.
- 8**: A small electronic component, possibly a switch or sensor.
- 9**: A rectangular mounting plate or bracket.
- 10**: A screw used to secure the mounting plate.
- 11**: A screw used to secure the mounting plate.
- 12**: A screw used to secure the mounting plate.

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	303-0285	1	*Potentiometer – Voltage Adjust – 5K Ohms (Used With Model MX321 Voltage Regulator) (R21)	7	812-0084	4	Screw, Machine – Round Head (#8-32 x 1")
				8	332-1043	1	Jumper (Used On TB21)
				9	305-0868	1	*Board, Printed Circuit – Isolation Transformer (T30)
2	305-0823	1	Board, Printed Circuit – Voltage Regulator (MX321) (VR21)	10	813-0108	4	*Screw, Machine – Round Head (#10-32 x 1-1/2")
3	319-0652	1	Plate, Mounting	11	526-0008	4	*Washer, Flat (#10)
4	815-0544	6	Screw, Machine – Round Head – Cross Recessed W/IT (#6-32 x 1/2")	12	850-0030	4	*Washer, Lock – Spring (#10)
5	350-1222	1	Resistor (1.5K Ohms) (Used On TB21)	* – Not Used On All Models			
6	517-0131	1	Plug, Hole (Fits 3/8" Hole)				

Alarm Relay Board

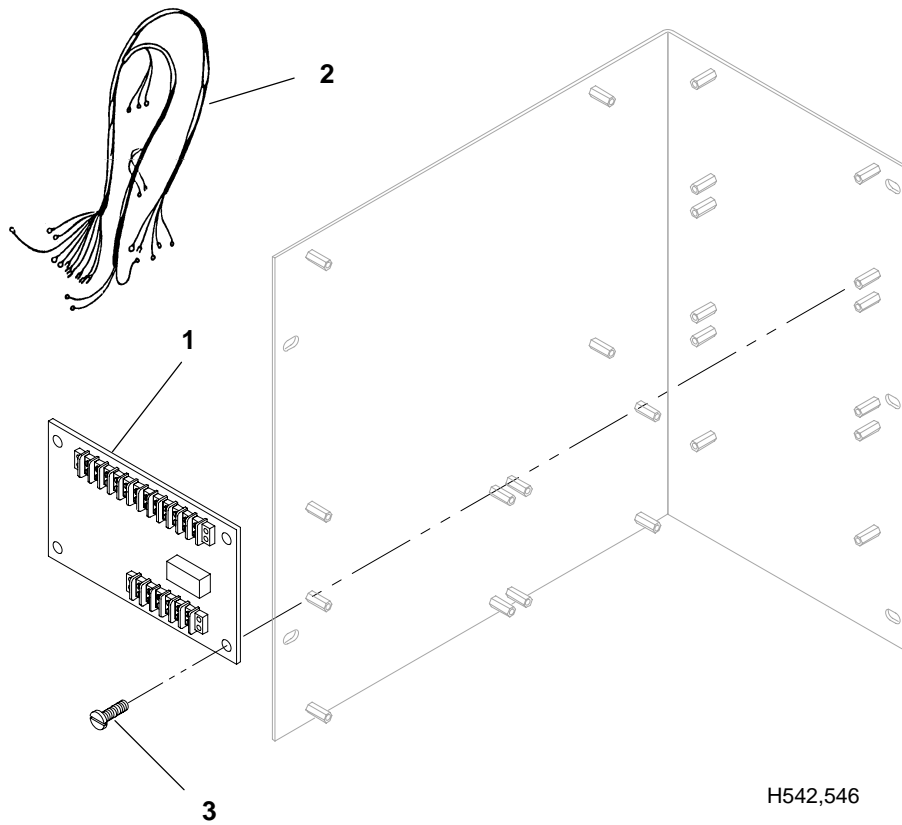


KJ02,KJ03

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, Printed Circuit – Alarm Relay (Includes Relay)	5	323-1291	2	*Plug – 9 Place (P1,P2)
	300-4111-02	1	Without Form C Relays	6	323-1199	9	*Pin, Contact (Used In P1)
	300-4111-04	1	With Form C Relays	7	323-1200	12	*Socket, Contact (Used In P2,3)
2	307-1056	1	Relay (Quantity Used As Required (K1,K2,K3)	8	323-1292	1	*Plug – 4 Place (P3)
3	815-0544	6	Screw, Machine – Round Head – Cross Recessed W/IT (#6-32 x 1/2")	9	870-0517-01	4	Standoff (Clear) (1-15/16")
4	338-2875	1	Harness, Wiring (Includes Parts Marked *) (A11 To P1,2,3)	10	870-0517-02	2	Standoff (Yellow) (2")

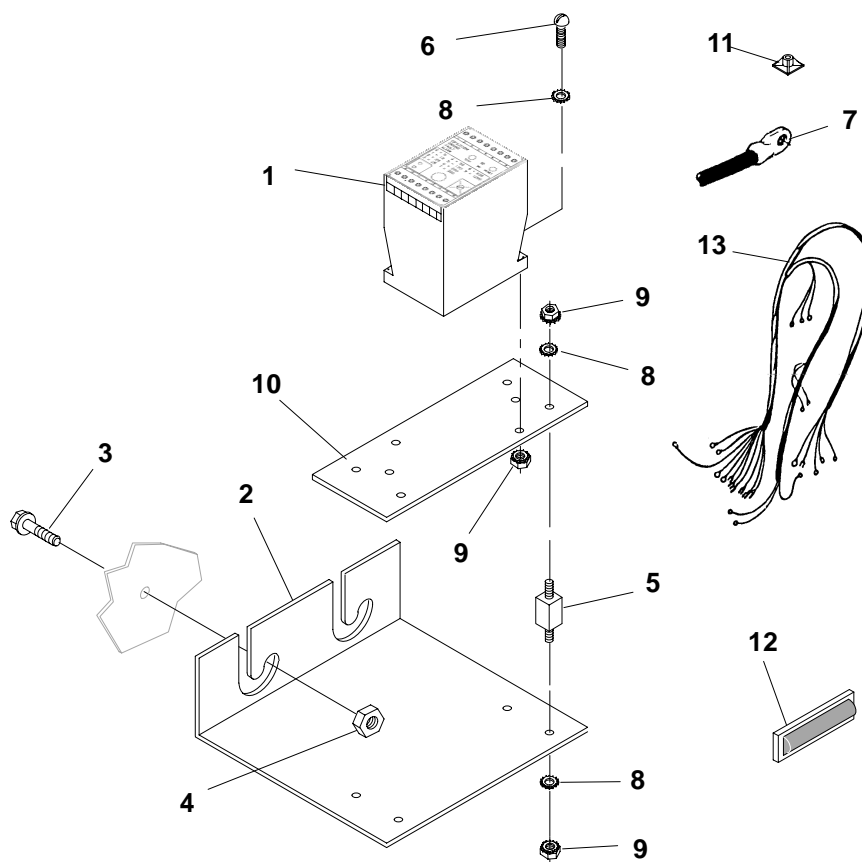
* – Parts Included in 338-2875 Wiring Harness

Common Alarm Board
Generator Sets With Detector Control
DFBF, DFCB, DFCC Begin Spec J
DFCE



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-4218-02	1	Board, Printed Circuit – Common Alarm (A27)	3	812-0063	4	Screw, Machine – Round Head (#6-32 x 1/2")
2	338-3033	1	Harness, Wiring (12 Wire) (A27 to A11)				

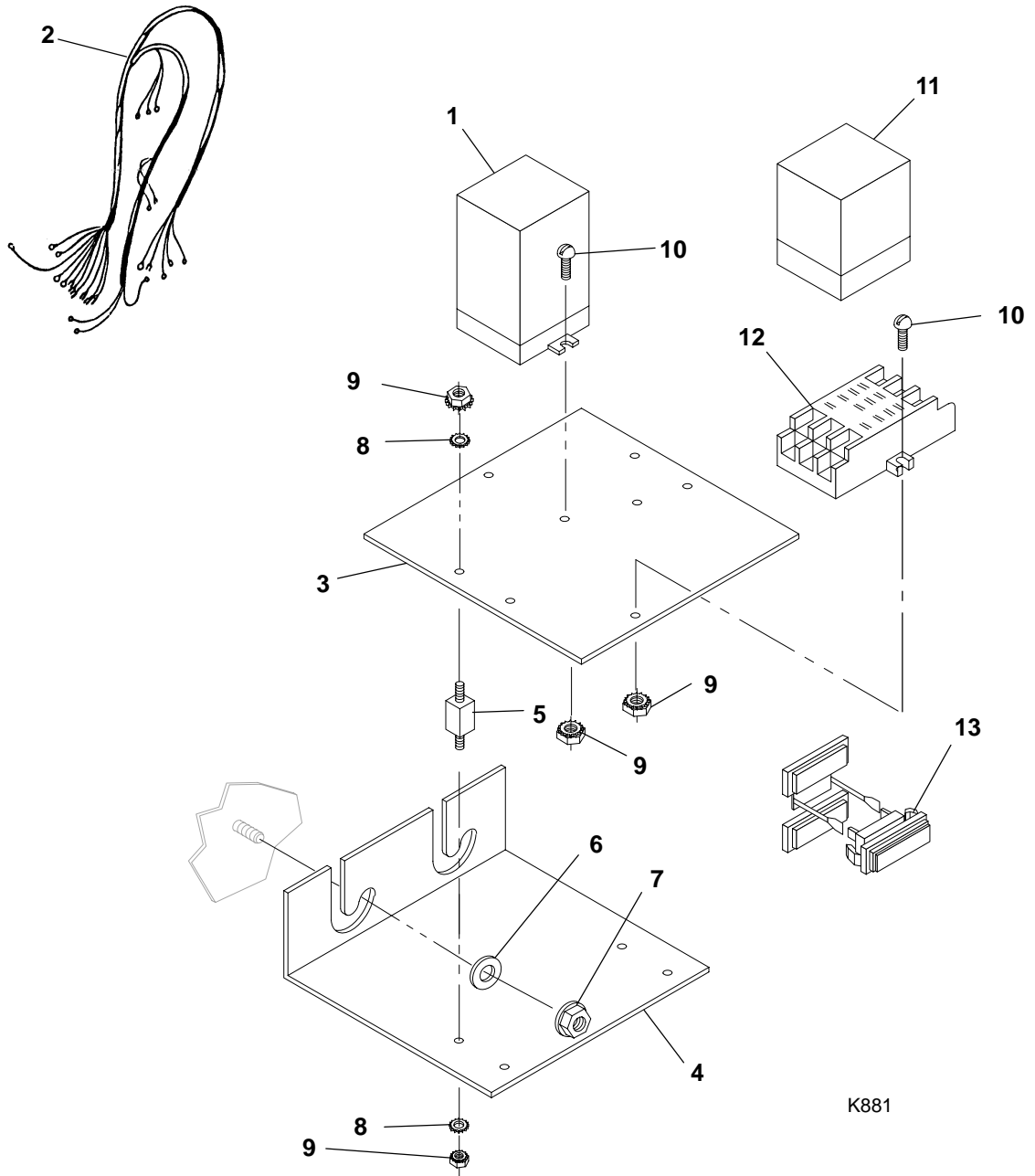
Ground Fault Relay **DFBF, DFCB, DFCC Begin Spec L** **DFCE**



H550

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-2843	1	Relay (GFA)	11	332-2420	2	Mount, Cable Tie
2	301-6987	1	Bracket, Mounting	12	322-0431-09	1	Lens, Indicator Light – Generator Sets With Detector Control (Amber Color, Marked "GROUND FAULT")
3	821-0017	2	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")	13			Harness, Wiring
4	870-0257	2	Nut, Hex – Self-Locking (5/16-18)	338-3234	1		Generator Sets With Detector Control (GFA to A11, GND, NEUTRAL and CONT GRD) (5 Wire, 78")
5	402-0354	4	Mount, Shock	338-3232	1		Generator Sets With PowerCommand Control (GFA to TB1, GEN NEUTRAL and GND) (5 Wire, 102")
6	812-0081	2	Screw, Machine – Round Head (#8-32 x 5/8")				
7	226-4406-06	2	Cable, Generator (Generator Neutral to Generator Grounding Bolt) (24")				
8	853-0005	8	Washer, Lock – ET (#8)				
9	870-0221	10	Nut, Hex – W/ET (#8-32)				
10	319-0030	1	Plate, Mounting				

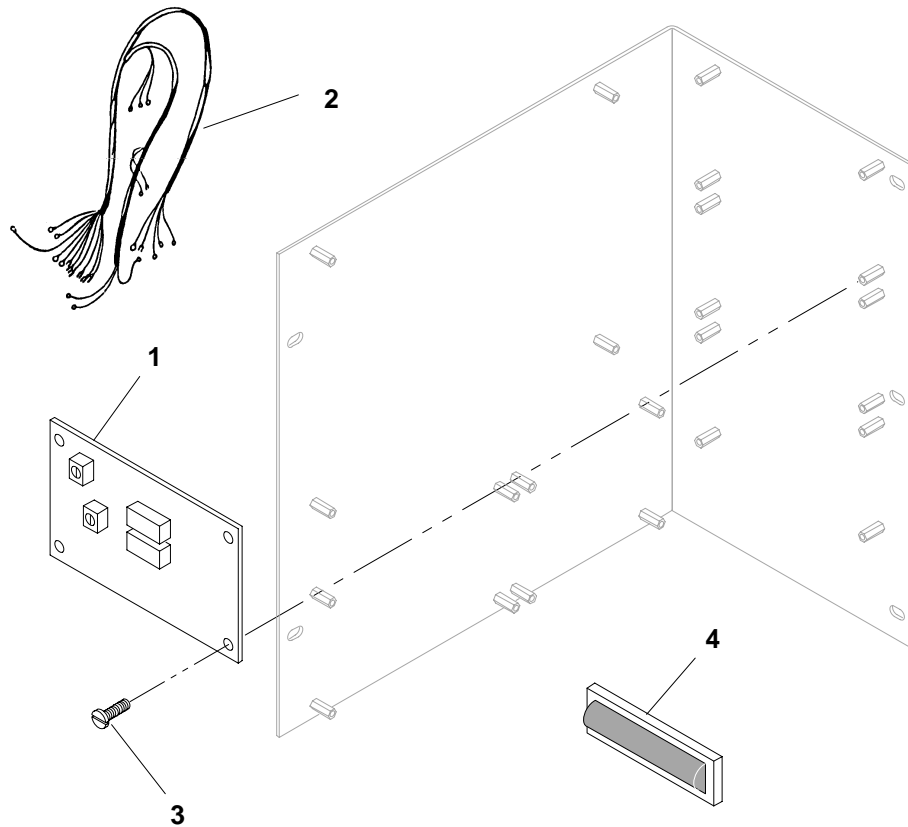
Over/Under Voltage Relay DFBF, DFCB, DFCC Spec H Through K



K881

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-2552	1	Relay, Voltage - Over/Under (A17)	8	853-0005	8	Washer, Lock - EIT (#8)
2	338-2123	1	Harness, Wiring - Over/Under Voltage	9	870-0221	12	Nut, Hex - W/ET (#8-32)
3	301-9933	1	Plate, Mounting	10	812-0081	4	Screw, Machine - Round Head (#8-32 x 5/8")
4	301-6987	1	Bracket, Mounting	11	307-1911	1	Relay, Time Delay (24 VDC) (K17)
5	402-0354	4	Mount, Shock	12	323-0804	1	Socket, Relay
6	526-0115	2	Washer, Flat (5/16")	13	322-0384-09	1	Light, Indicator - Marked "O/U VOLT" (Not Used On All Models)
7	870-0048	2	Nut, Hex - Self-Locking (5/16-18)				

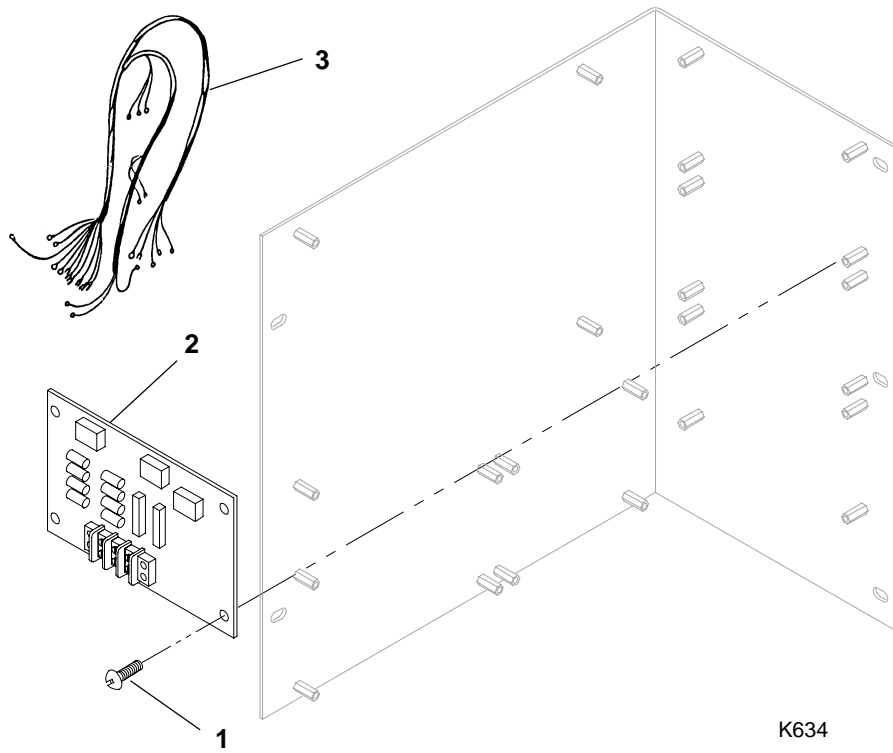
**Over/Under Voltage Relay
DFBF, DFCB, DFCC Begin Spec L
DFCE**



K881

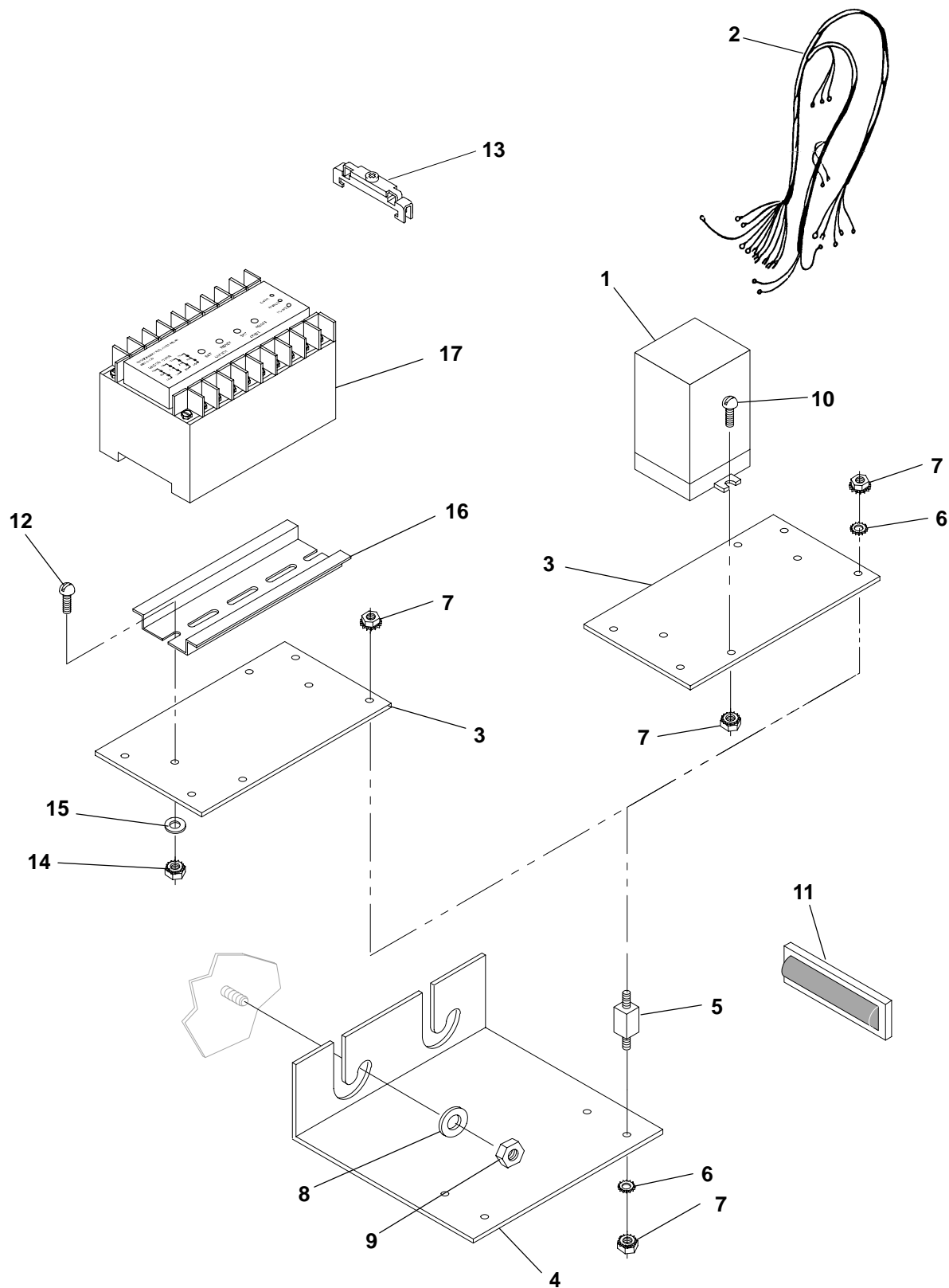
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-2868	1	Board, Printed Circuit – Over/Under Voltage Relay (A17)	3	815-0388	4	Screw, Pan Head – Cross Recessed (#6-32 x 1/2")
2	338-3366	1	Harness, Wiring (6 Wire) (30")	4	322-0431-03	1	Lens, Indicator Light (Marked "O/U VOLT")

Time Delay Start/Stop



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	338-1904	1	Harness, Wiring (5 Wire) (21-1/2")
2	300-2899	1	Board, Printed Circuit – Time Delay (A15)				

Over/Under Frequency Relay

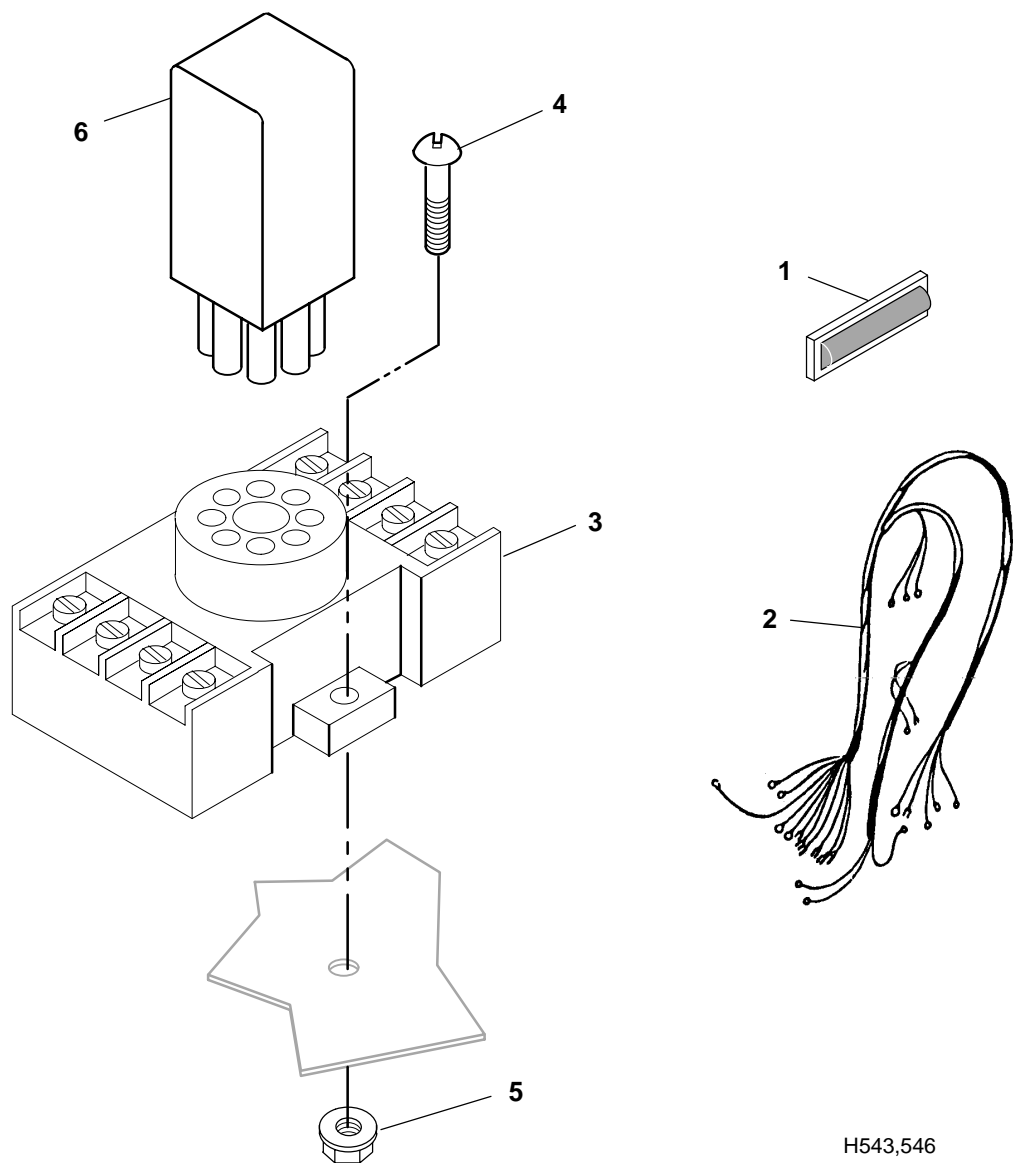


K906

Over/Under Frequency Relay

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Relay, Frequency – Over/Under – DFBF, DFCB, DFCC Spec H Through Early Portion Of Spec S, DFCE Spec A Through Early Portion Of Spec C (A18)	12	813-0100	2	Screw, Machine – Round Head (#10-32 x 1/2") DFBF, DFCB, DFCC Use Began During Later Portion Of Spec S, DFCE Use Began During Later Portion Of Spec C
	307-2553	1	50 Hertz Sets				
	307-2709	1	60 Hertz Sets	13	323-1411-01	2	Clip, Mounting – DFBF, DFCB, DFCC Use Began During Later Portion Of Spec S, DFCE Use Began During Later Portion Of Spec C
2	338-2347	1	Harness, Wiring – Over/Under Frequency				
3	301-9941	1	Plate, Relay Mounting				
4	301-6987	1	Bracket, Mounting				
5	402-0354	4	Mount, Shock	14	870-0131	2	Nut, Hex – W/ET (#10-32) DFBF, DFCB, DFCC Use Began During Later Portion Of Spec S, DFCE Use Began During Later Portion Of Spec C
6	853-0005	8	Washer, Lock – EIT (#8)				
7			Nut, Hex – W/ET (#8-32)				
	870-0221	10	DFBF, DFCB, DFCC Spec H Through Early Portion Of Spec S, DFCE Spec A Through Early Portion Of Spec C	15	526-0008	2	Washer, Flat (#10) DFBF, DFCB, DFCC Use Began During Later Portion Of Spec S, DFCE Use Began During Later Portion Of Spec C
	870-0221	8	DFBF, DFCB, DFCC Use Began During Later Portion Of Spec S, DFCE Use Began During Later Portion Of Spec C	16	332-2879-07	1	Rail, Mounting – DFBF, DFCB, DFCC Use Began During Later Portion Of Spec S, DFCE Use Began During Later Portion Of Spec C
8	526-0115	2	Washer, Flat (5/16")				
9	870-0048	2	Nut, Hex – Self-Locking (5/16-18)				
10	812-0081	2	Screw, Machine – Round Head (#8-32 x 5/8") DFBF, DFCB, DFCC Spec H Through Early Portion Of Spec S, DFCE Spec A Through Early Portion Of Spec C	17			Relay, Frequency – Over/Under – DFBF, DFCB, DFCC Use Began During Later Portion Of Spec S, DFCE Use Began During Later Portion Of Spec C (A18)
11	322-0431-04	1	Lens, Indicator Light – Marked "O/U HZ" (DS20)		307-2920	1	50 Hertz Sets
					307-2919	1	60 Hertz Sets

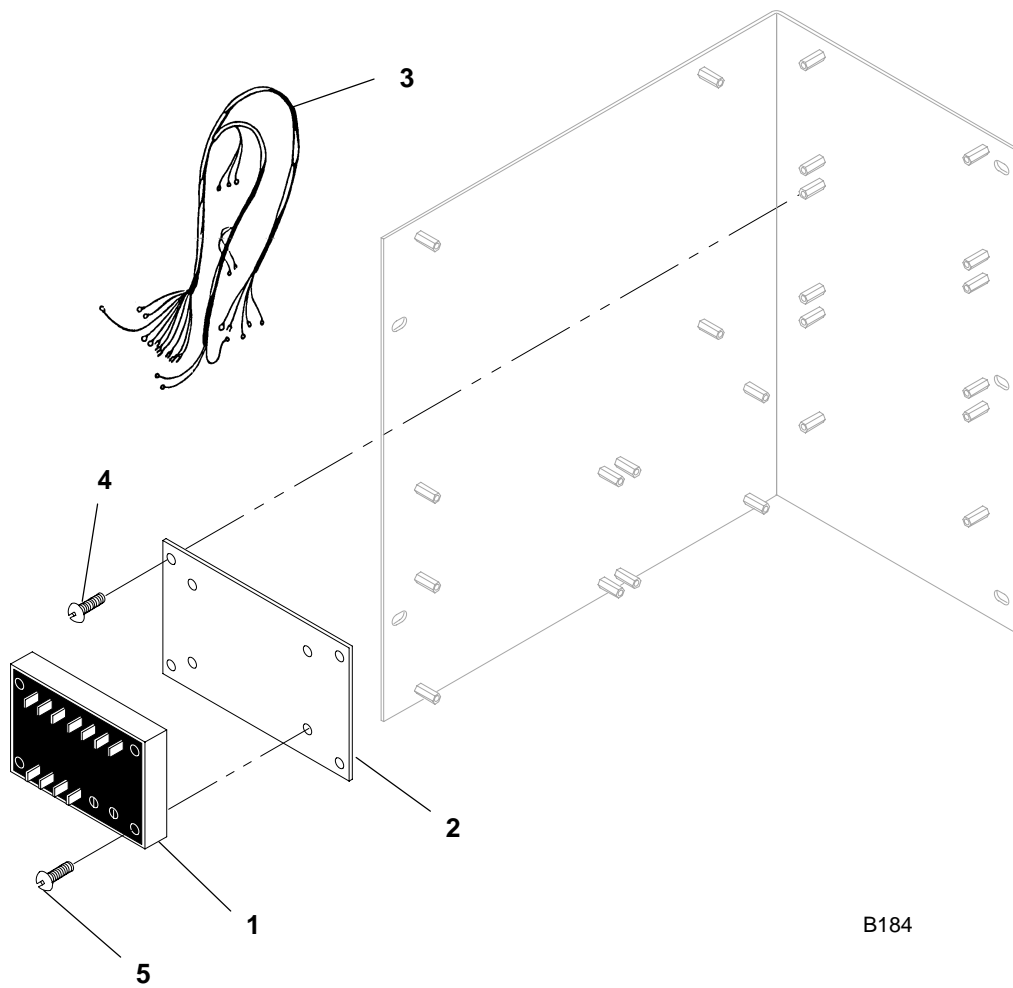
Low Battery Voltage Sensor **DFBF, DFCB, DFCC Begin Spec J** **DFCE**



H543,546

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	322-0431-08	1	Lens, Indicator Light (Marked "Lo Battery")	5	870-1221	2	*Nut, Hex – W/ET (#8-32)
2	338-3034	1	*Harness, Wiring (4 Wire) (36") (K15 to A11)	6	305-0901	1	*Sensor – Low Battery Voltage (K15)
3	323-1410-03	1	*Base, Relay	* – Not Used on All Models			
4	812-0084	2	*Screw, Machine – Round Head (#8-32 x 1")				

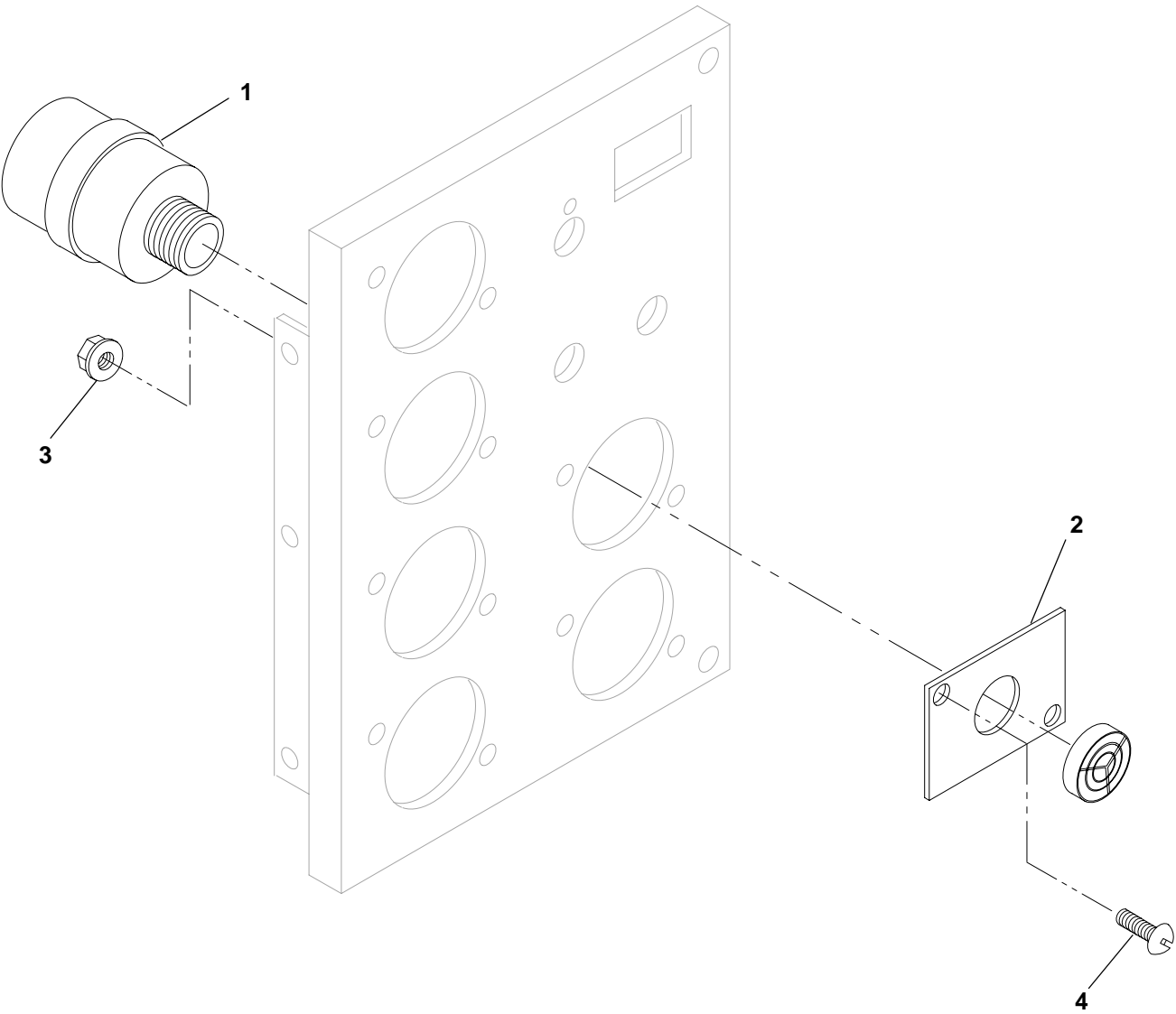
Electronic Overspeed



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	305-0902-02	1	Board, Printed Circuit – Electronic Overspeed (A16)
2	319-0754	1	Plate, Mounting
3	338-2447	1	Harness, Wiring (A16 to A11, AUX) (5 Wire) (66-1/2")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	815-0388	4	Screw, Pan Head – Cross Recessed – Thread Forming (#6-32 x 1/2")
5	812-0082	4	Screw, Machine – Round Head (#8-32 x 3/4")

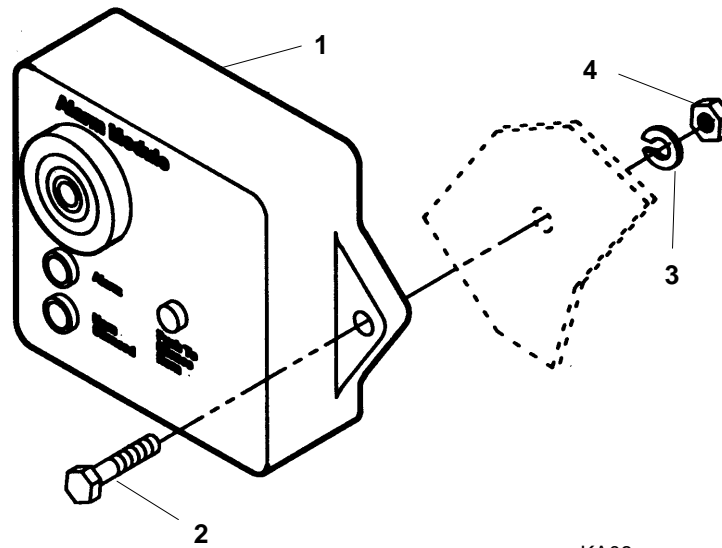
**Audible Alarm
Generator Sets With Detector Control**



KA08

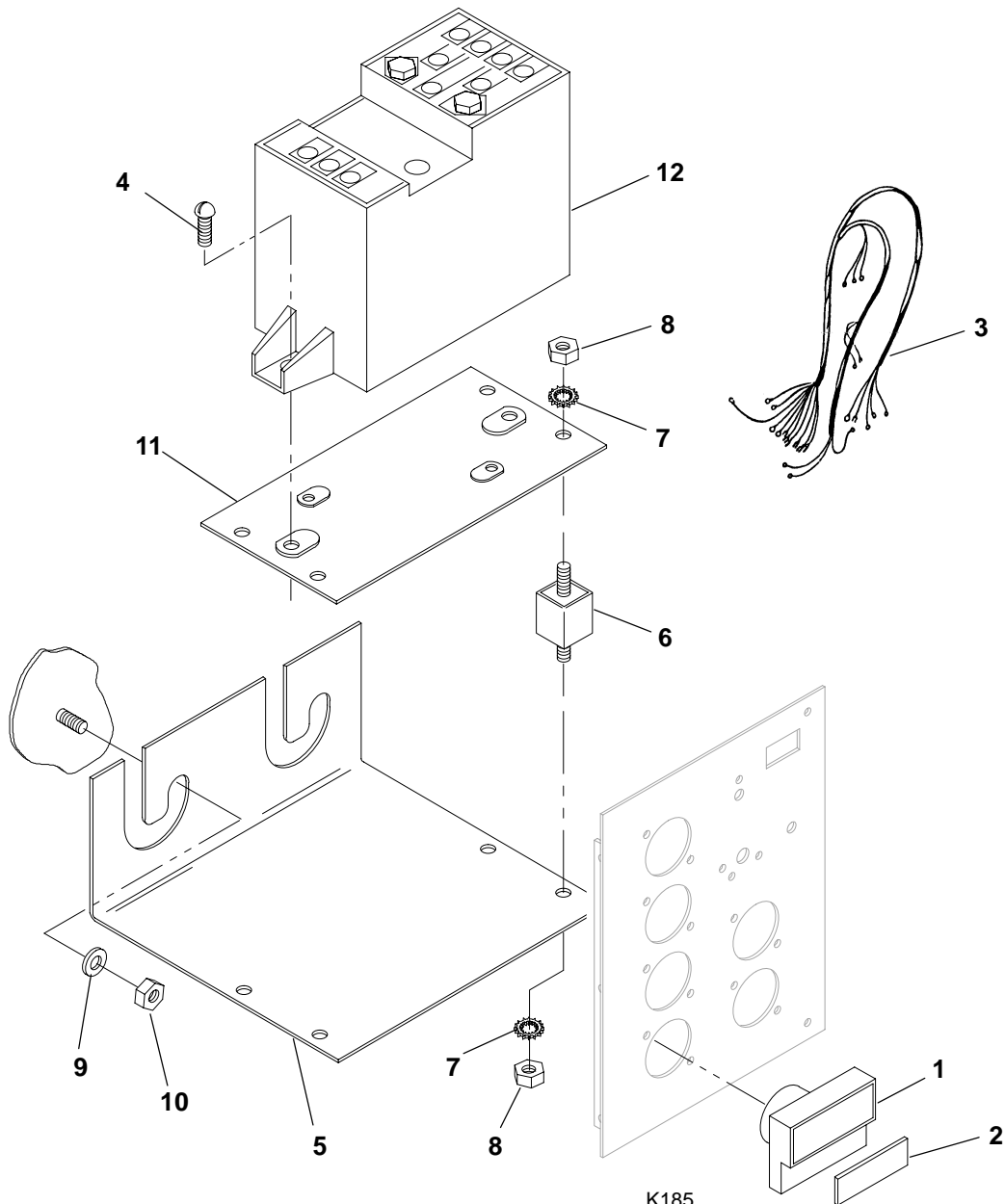
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0133	1	Alarm, Audible (DS2)	4	815-0385	2	Screw, Machine – Round Head (#6-32 x 1/2")
2	319-0898	1	Plate, Mounting				
3	870-0183	2	Nut, Hex – W/ET (#6-32)				

Audible Alarm Module
Generator Sets With PowerCommand Control
DFBF, DFCB, DFCC Begin Spec K
DFCE



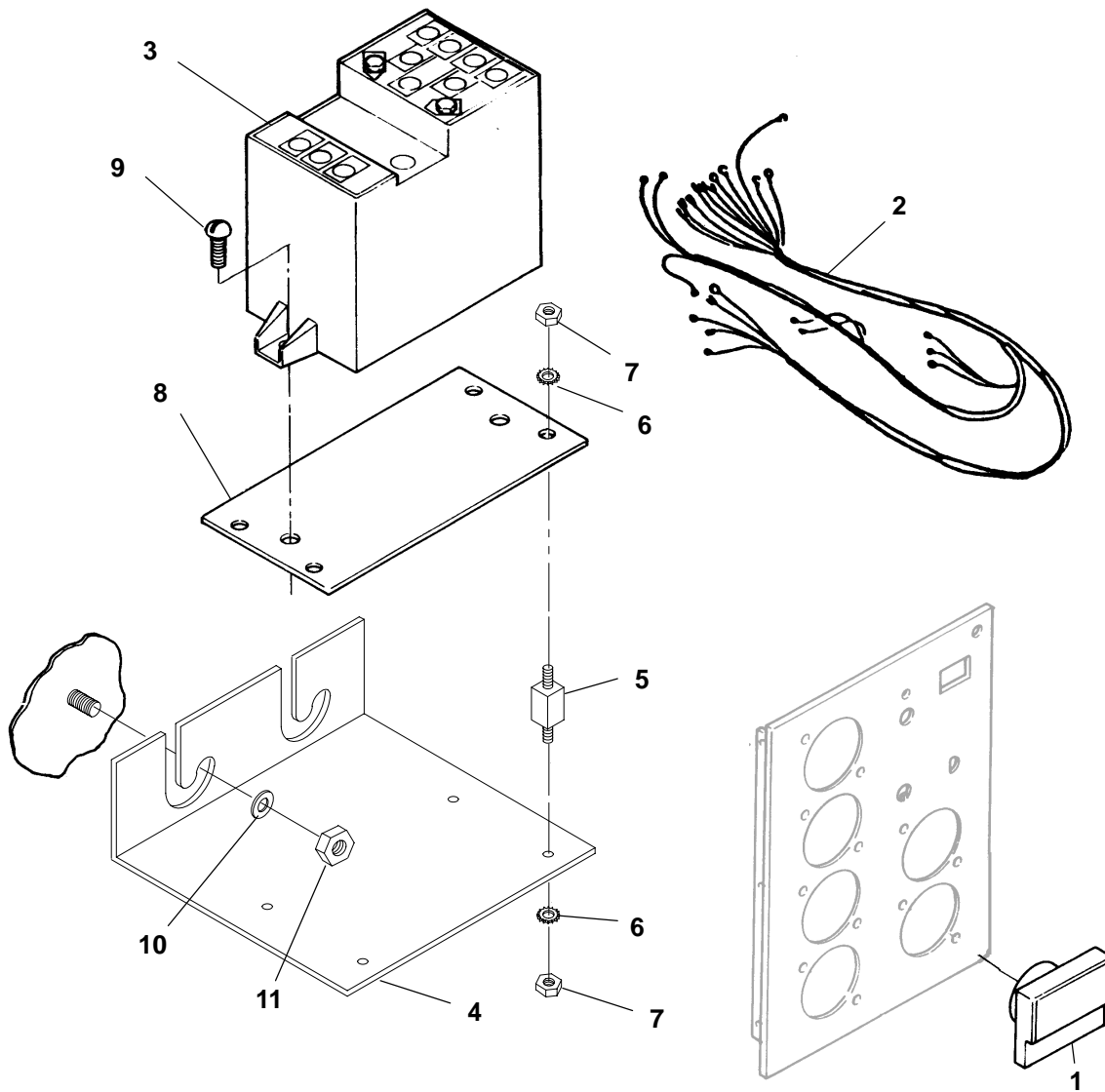
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-3998-01	1	Module, Audible Alarm (DS2)	3	850-0040	2	Washer, Lock – Spring (1/4")
2	800-0006	2	Screw, Cap – Hex Head (1/4-20 x 7/8")	4	862-0001	2	Nut, Hex (1/4")

Wattmeter



				K185			
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1722	1	Wattmeter (Dial Not Included) (M24)	5	301-6987	1	Bracket, Mounting
2			Dial, Wattmeter	6	402-0354	4	Mount, Shock
	302-1721-10	1	0-300 kW Rating	7	853-0008	8	Washer, Lock – ET (#10)
	302-1721-11	1	0-350 kW Rating	8	870-0221	8	Nut, Hex – W/ET (#8-32)
	302-1721-12	1	0-400 kW Rating	9	526-0115	2	Washer, Flat (5/16")
	302-1721-13	1	0-500 kW Rating	10	870-0048	2	Nut, Locking (5/16-18)
3			Harness, Wiring – Wattmeter	11	319-0030	1	Plate, Mounting
	338-1936	1	Reconnectable WYE, Three Phase	12			Transducer, Watts (A21)
	338-2479	1	120/240 Volt Delta, Three Phase		302-1833-01	1	2-1/2 Element, Three Phase, 4 Wire
4	815-0905-06	2	Screw, Machine – Pan Head – Cross Recessed (#10-32 x 5/8")		302-1833-05	1	2 Element, Three Phase, 3 Wire

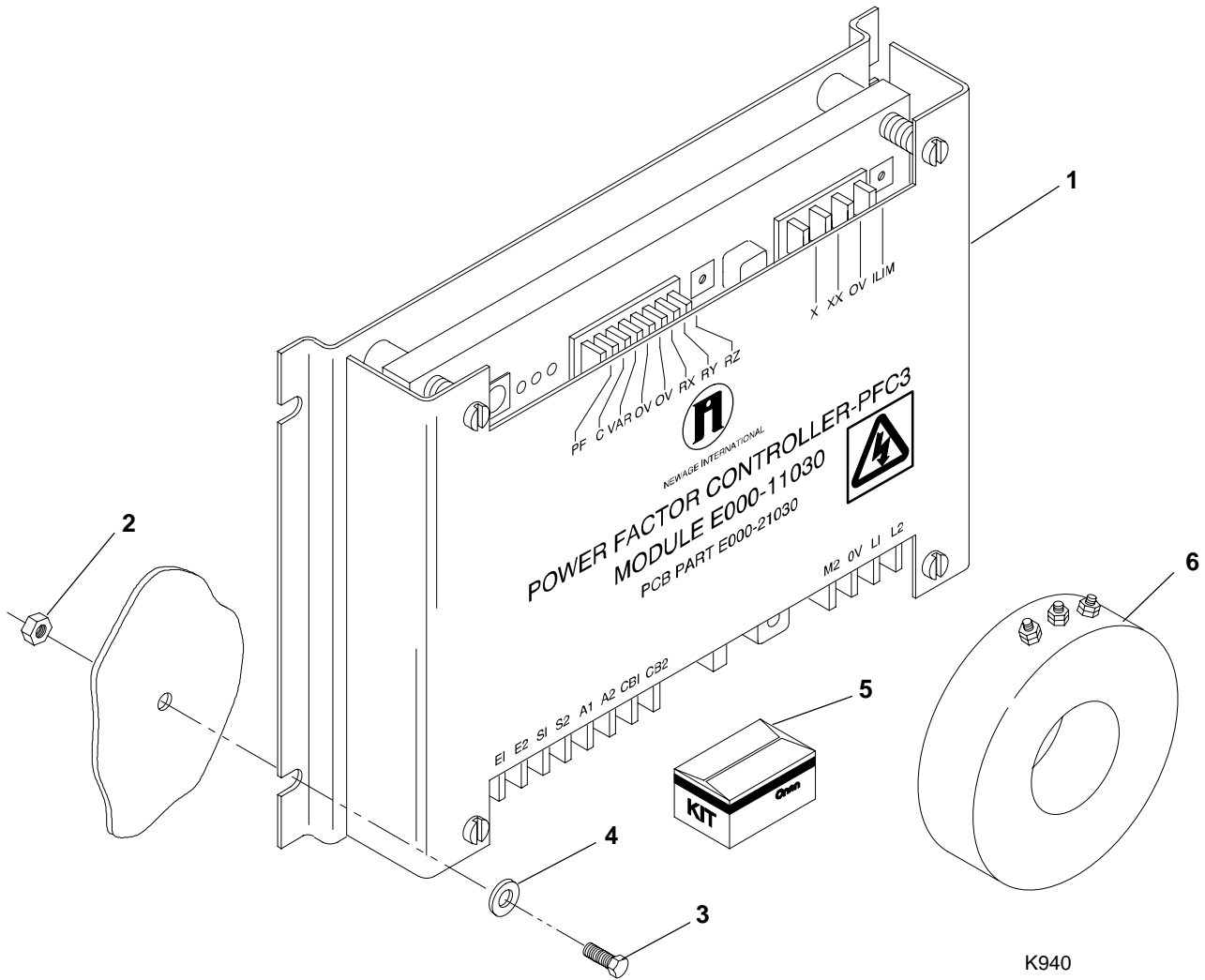
Power Factor Meter



K264

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1883	1	Meter, Power Factor (M25)	7	870-0221	8	Nut, Hex - W/ET (#8-32)
2	338-2368	1	Harness, Wiring - Meter (6 Wire, 44")	8	319-0030	1	Plate, Mounting
3	302-1833-03	1	Transducer, Watts (A21)	9	815-0905-06	2	Screw, Machine - Pan Head - Cross Recessed (#10-32 x 5/8")
4	301-6987	1	Bracket, Mounting	10	526-0115	2	Washer, Flat (5/16")
5	402-0354	4	Mount, Shock	11	870-0048	2	Nut, Locking (5/16-18)
6	853-0008	8	Washer, Lock - ET (#10)				

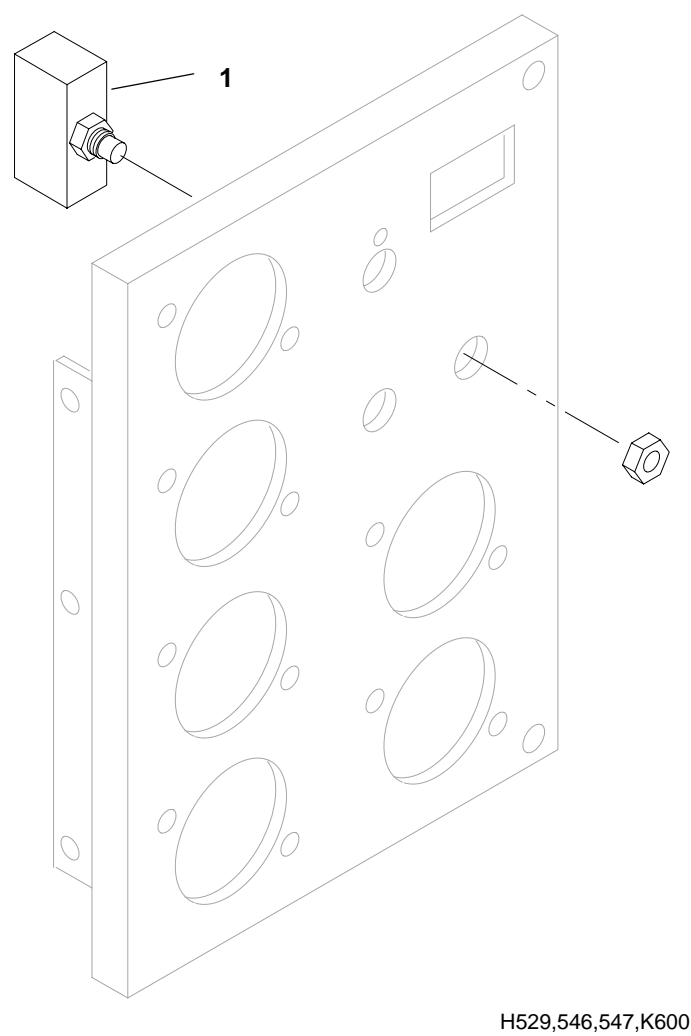
VAR Power Factor Controller



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	305-0870	1	Controller, Power Factor (VAR)
2	870-0131	4	Nut, Hex – W/EIT (#10-32)
3	813-0103	4	Screw, Machine – Round Head (#10-32 x 3/4")
4	526-0008	4	Washer, Flat (#10)
5	325-0011	1	Kit, Lead – Controller (12 Wire) (CT,VAR,AUX,CB to VAR,E2,TB11,E1,VR21,AUX)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6			Transformer, Current (CT25)
	302-1845-07	1	Ratio 500/5
	302-1845-08	1	Ratio 750/5
	302-1845-10	1	Ratio 1000/5
	302-1794-11	1	Ratio 1500/5
	302-1794-13	1	Ratio 3000/5

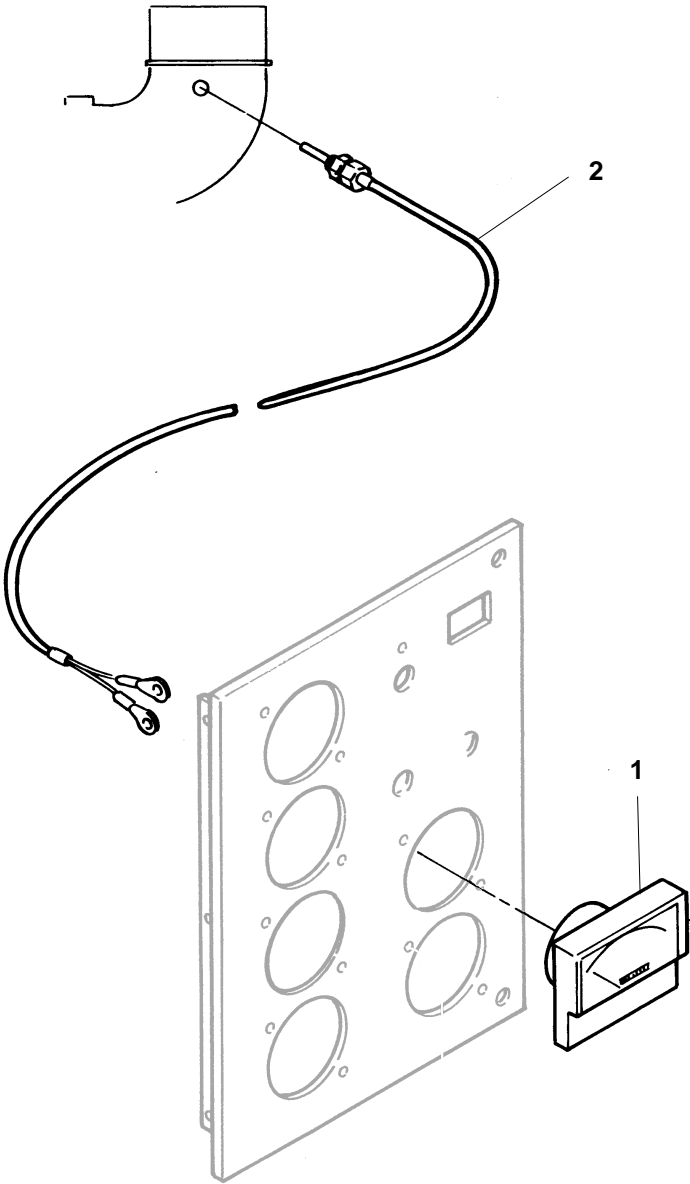
Circuit Breaker AC Control Door



H529,546,547,K600

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit (CB21)				
	320-1688-01	1	Without Auxiliary Contacts				
	320-1688-02	1	With Auxiliary Contacts				

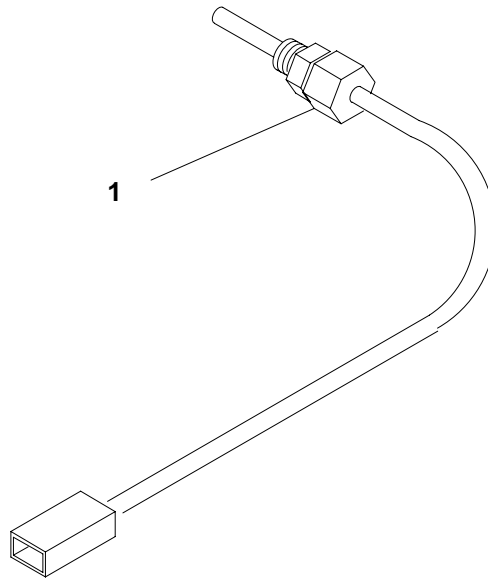
**Pyrometer
Generator Sets With Detector Control**



H244

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1874	1	Pyrometer (M26)	2	193-0299	1	Lead, Thermocouple

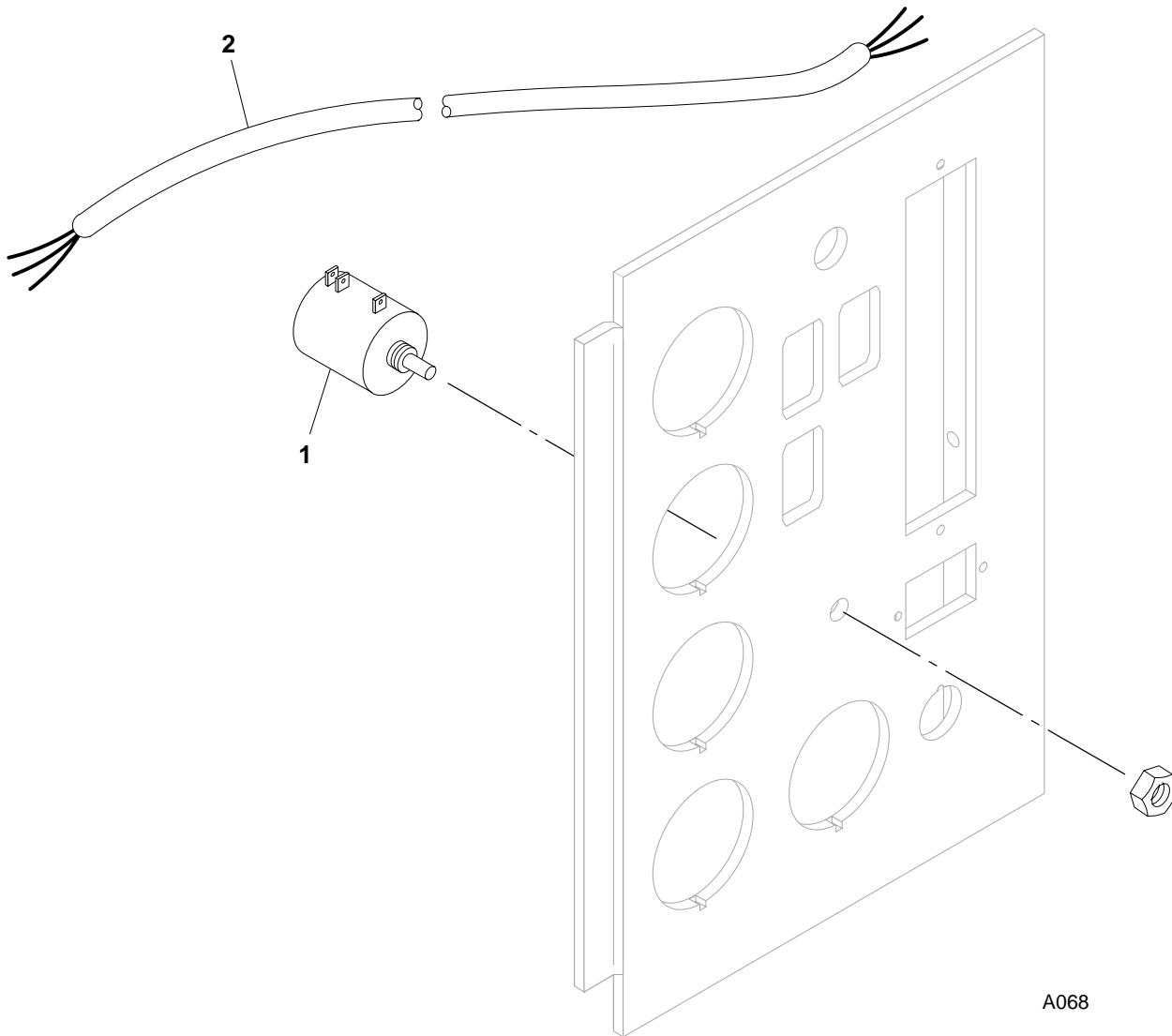
**Pyrometer
Generator Sets With PowerCommand Control
DFBF, DFCB, DFCC Begin Spec K
DFCE**



H244

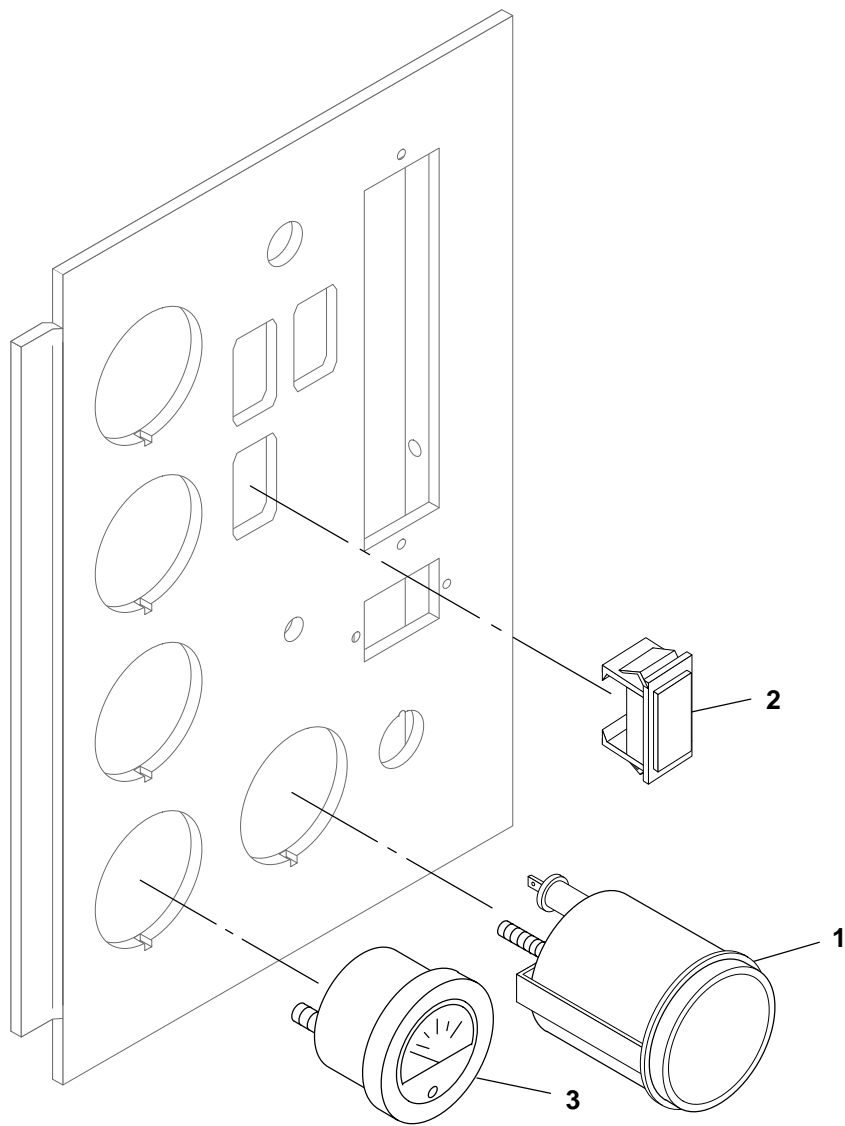
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0446-01	1	Pyrometer (17") (M26)				

Potentiometer Speed Adjusting



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Potentiometer, Speed Adjusting – Governor Controller (R21)	2	334-0116	–	Cable, Shielded – Bulk (Order by the Foot – 7 Feet Required)
	303-0280	1	Used With Barber Colman Governor				
	303-0223-05	1	Used With Woodward Governor				

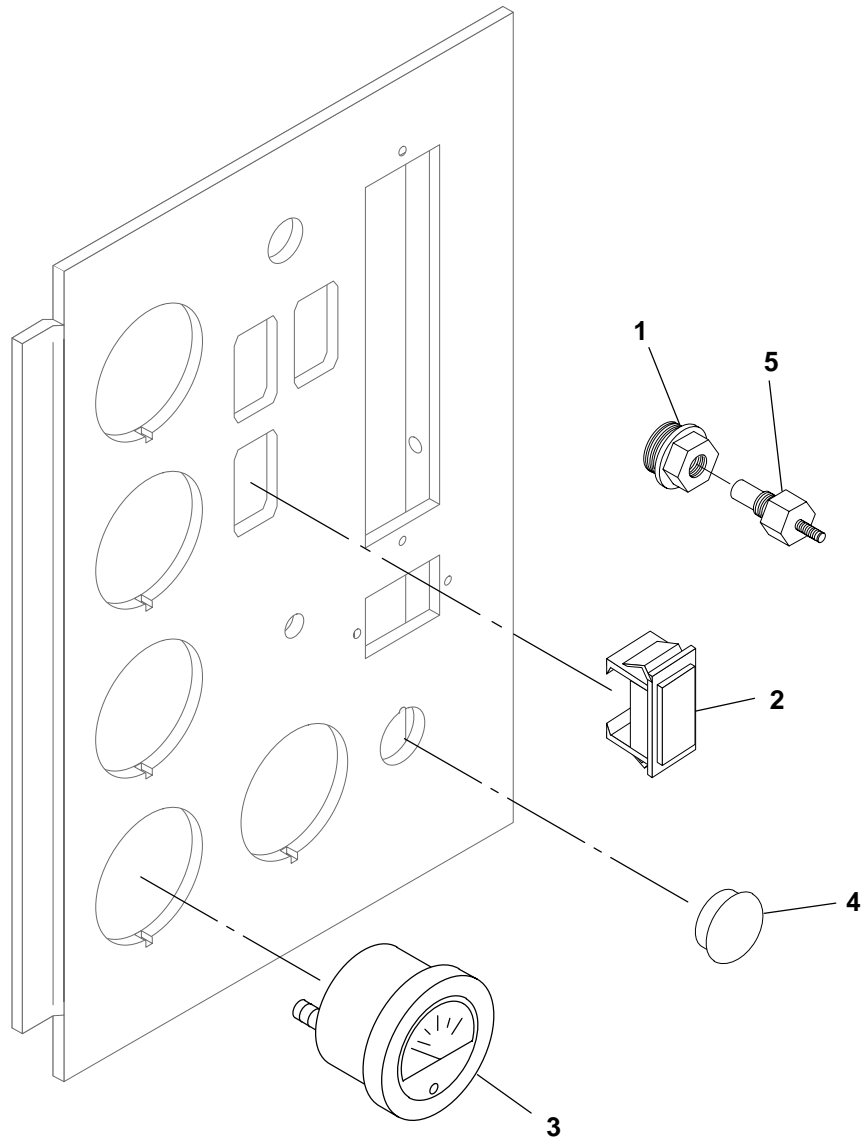
Tachometer



K145

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1873-01	1	Tachometer (0-4000 RPM, 12 Volt) (M16)	2	301-6257	1	Switch, Blank
				3	302-1723	1	Ammeter – Blank Scale

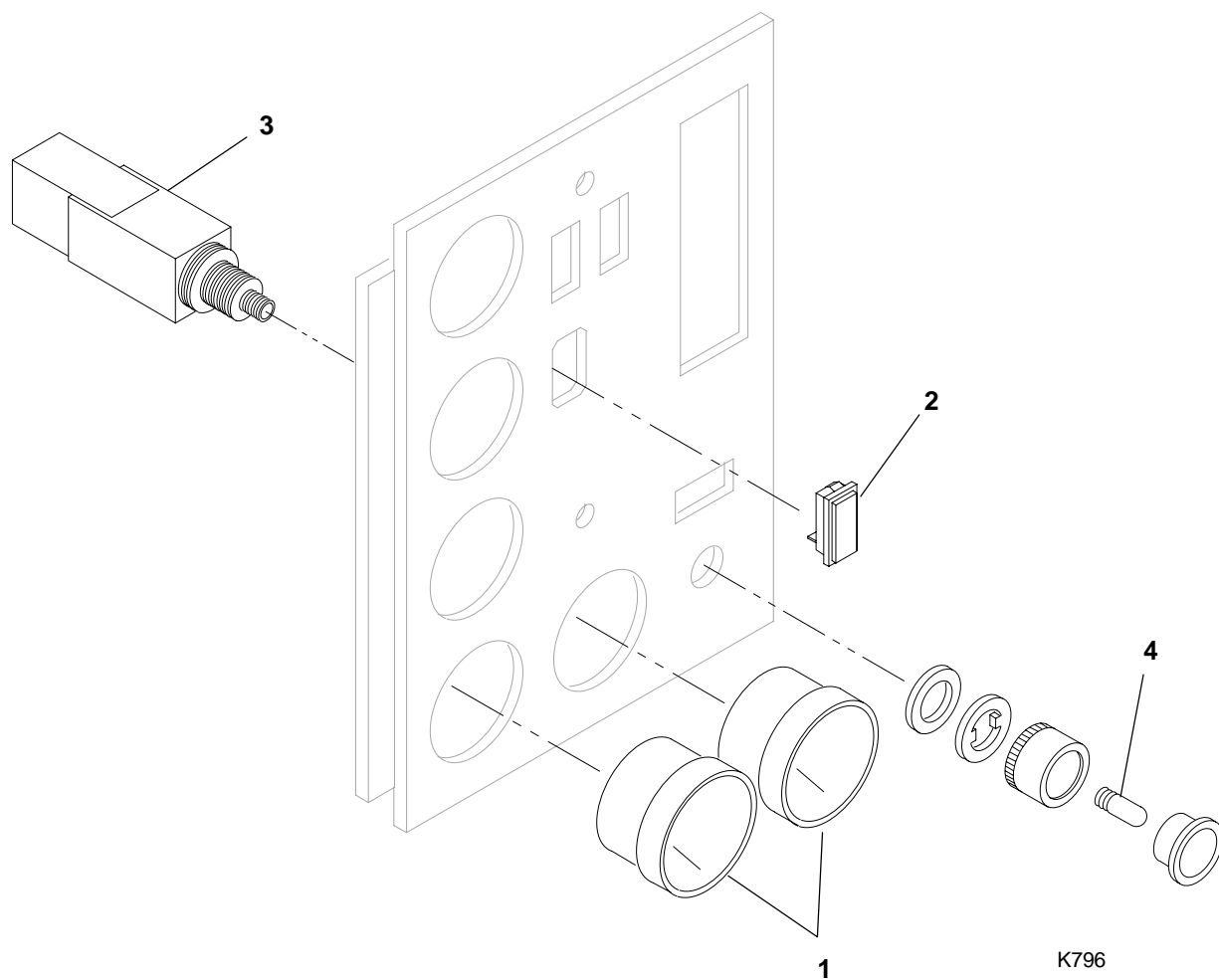
Oil Temperature Gauge



K486

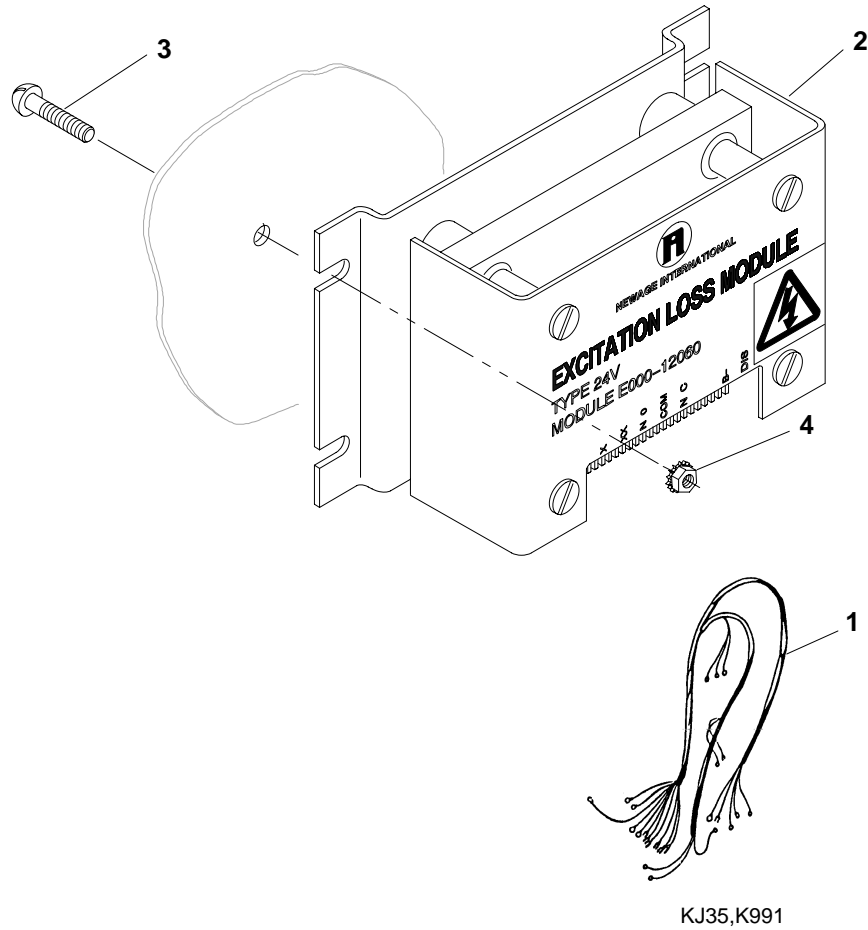
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0151	1	Bushing, Reducer (1/2" to 1/8") (Oil Pan Mounted)	4	517-0137	1	Plug, Hole (7/8" Hole)
2	301-6257	1	Switch - Blank	5	193-0388	1	Sender, Oil Temperature (E4) (Oil Pan Mounted)
3	193-0435	1	Gauge, Oil Temperature (M15)				

Emergency Stop Switch Generator Sets With Detector Control



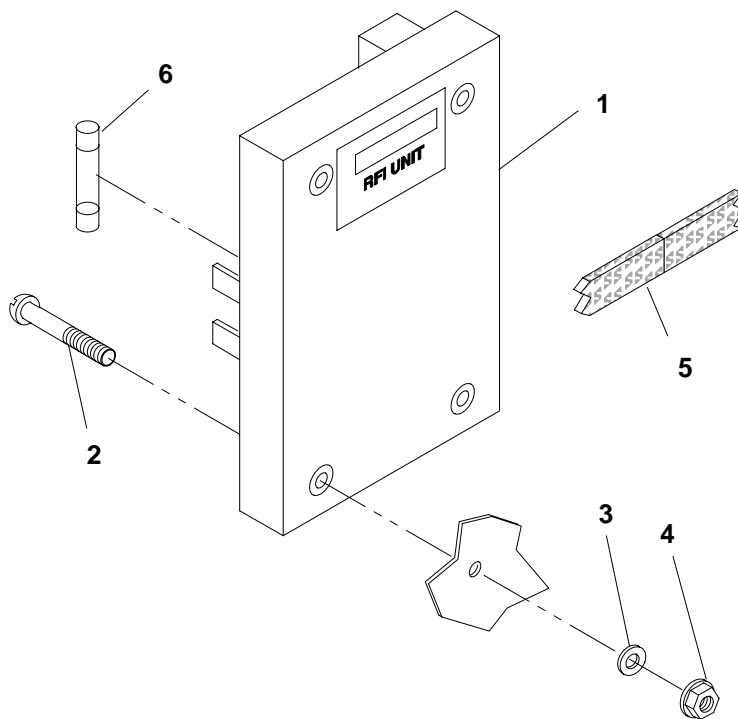
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1723	2	Ammeter – Blank Scale	4	322-0394	1	Bulb, Replacement
2	301-6257	1	Switch – Blank				
3	308-0853	1	Switch, Pushbutton – Emergency Stop (Includes Bulb) (S14)				

Excitation Loss Module



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-2455	1	Harness, Wiring	4	870-0131	4	Nut, Hex – W/ET (#10-32)
2	305-0821-02	1	Module (ELM)				
3	813-0103	4	Screw, Machine – Round Head (#10-32 x 3/4")				

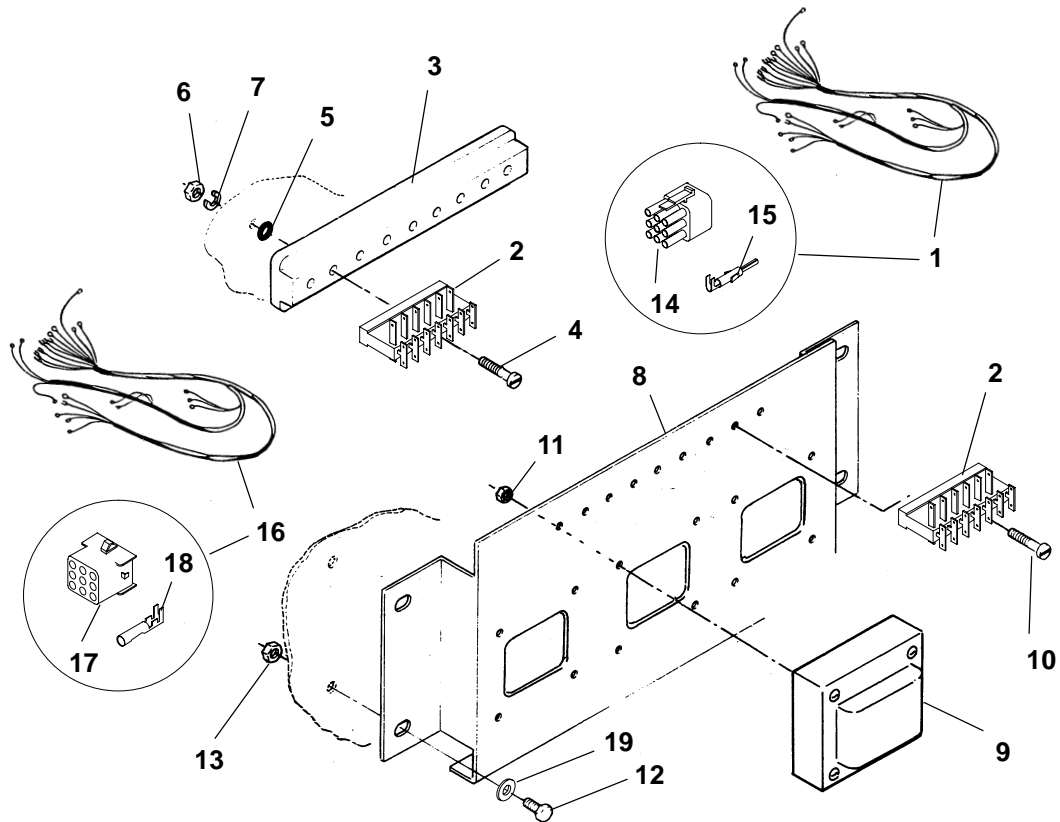
Radio Frequency Interference Module
DFBF, DFCB, DFCC Sets With Model HC4 or HC5 Generator
DFCE Sets With Model HC5 Generator



B220

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	314-0212	1	Module	5	314-0213	—	Shielding, Wire – Bulk (3" Wide) (Order By The Foot – 12 Feet Required)
2	813-0107	4	Screw, Machine – Round Head (#10-32 x 1-1/4")	6	321-0327-01	4	Fuse (5 Amp)
3	526-0008	4	Washer, Flat (#10)				
4	870-0131	4	Nut, Hex – W/ET (#10-32)				

Auxiliary Terminal Block Generator Sets With Detector Control



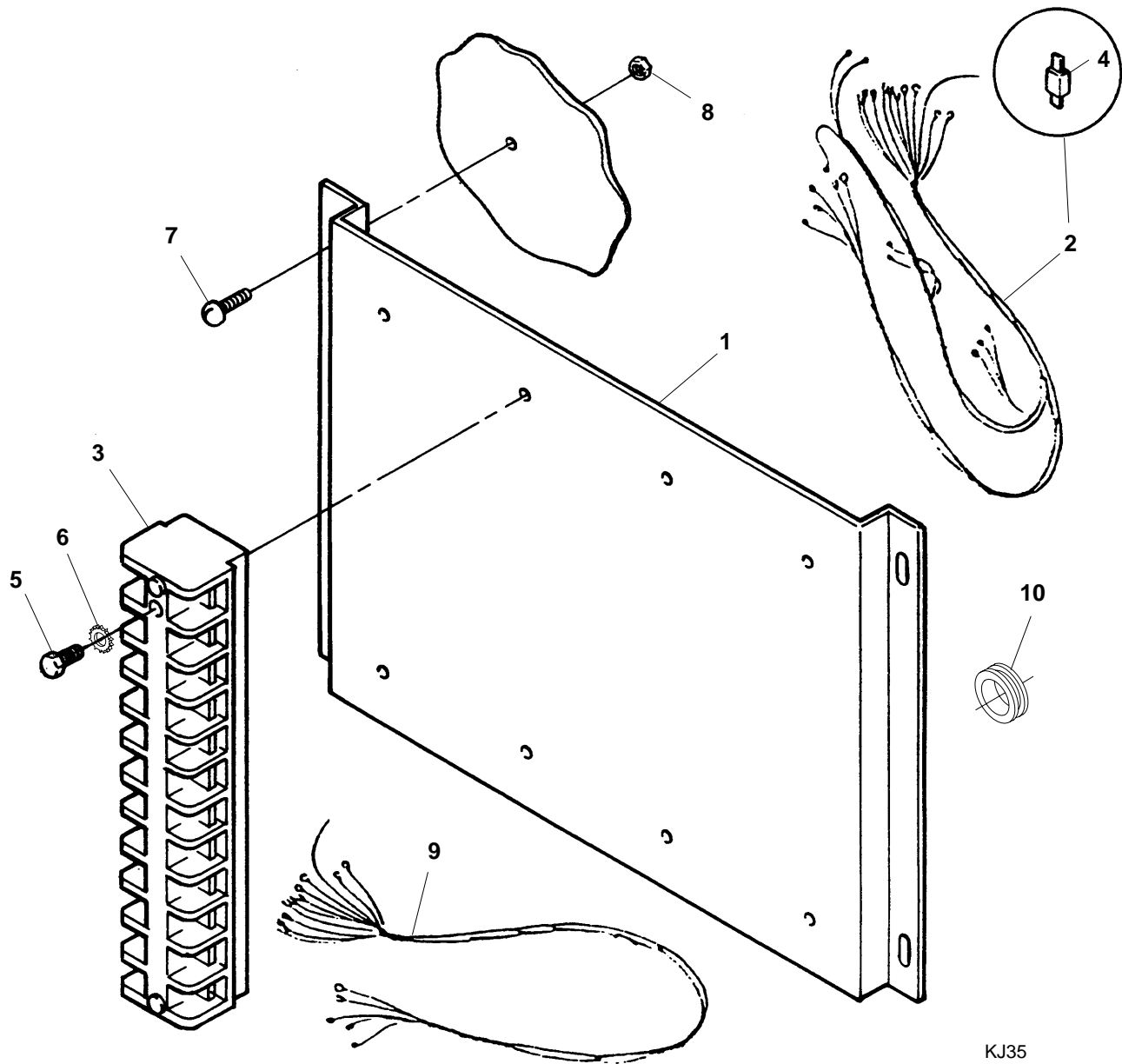
B246,252,258,259,260,300,
301,302,324,325,326,392

Auxiliary Terminal Block Generator Sets With Detector Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – Auxiliary Terminal Block	11	870-0221	12	Nut, Hex – W/ET (#8-32) DFBF, DFCB, DFCC Begin Spec M, DFCE
	338-2491	1	190-240, 380-480 Volt, 12 Lead Reconnectable Generators (Includes Parts Marked *) (AUX to TB21, VR21, A16, 8, 7, 6, 5, 4, X, XX, P2, P3, P4)	12	821-0016	4	+ Screw DFBF, DFCB, DFCC Spec H Through L – Self-Locking – Hex Washer Head (5/16-18 x 3/4")
			600 Volt Generators		800-2088	4	DFBF, DFCB, DFCC Begin Spec M, DFCE – Cap – Hex Head (M10 x 35mm)
	338-2796	1	DFBF, DFCB, DFCC Spec H Through L (AUX to TB21, A16, VR21, TB1, TB2, 8, 7, 6, 5, X, XX, P2, P3, P4)	13	870-0257	4	Nut, Locking – Hex Flange Head (5/16-18)
				14	323-1644-01	1	# Plug, Connector (9 Place) DFBF, DFCB, DFCC Begin Spec M, DFCE (P1)
	338-3359	1	DFBF, DFCB, DFCC Begin Spec M, DFCE (Includes Parts Marked #) (AUX to TB21, A16, VR21, 8, 7, 6, 5, X, XX, P1, P2, P3, P4)	15	323-1647	8	# Pin, Contact – DFBF, DFCB, DFCC Begin Spec M, DFCE
				16	338-3337	1	Harness, Wiring – Transformer (Includes Housing and Sockets) DFBF, DFCB, DFCC Begin Spec M, DFCE (J1 to PTW, PTV, PTU)
2	332-3007	3	*# Block, Terminal (AUX)	17	323-1644-02	1	Housing, Connector (9 Place) DFBF, DFCB, DFCC Begin Spec M, DFCE (J1)
3	232-3536	1	*# Base, Terminal Block	18	323-1648	9	Socket, Contact – DFBF, DFCB, DFCC Begin Spec M, DFCE
4			Screw, Machine – Round Head (#8-32 x 1-1/8")	19	526-2120	4	Washer, Flat (M10) DFBF, DFCB, DFCC Begin Spec M, DFCE
	812-0085	1	*#+ DFBF, DFCB, DFCC Spec H Through L				
	812-0085	3	+ DFBF, DFCB, DFCC Begin Spec M, DFCE				
5	509-0065	1	*# Seal, O-Ring				
6	870-0221	3	Nut, Hex – W/ET (#8-32)				
7	850-0025	3	Washer, Lock – Spring (#10)				
8	319-1245	1	+ Bracket, Mounting				
9	315-0717	3	+ Transformer (PTW,PTV,PTU)				
10			Screw, Machine – Round Head				
	812-0079	2	+ DFBF, DFCB, DFCC Spec H Through L (#8-32 x 1/2")				
	812-0082	3	DFBF, DFCB, DFCC Begin Spec M, DFCE (#8-32 x 3/4")				

* – Parts Included In 338-2491 Wiring Harness
– Parts Included In 338-3359 Wiring Harness
+ – Not Used On All Models

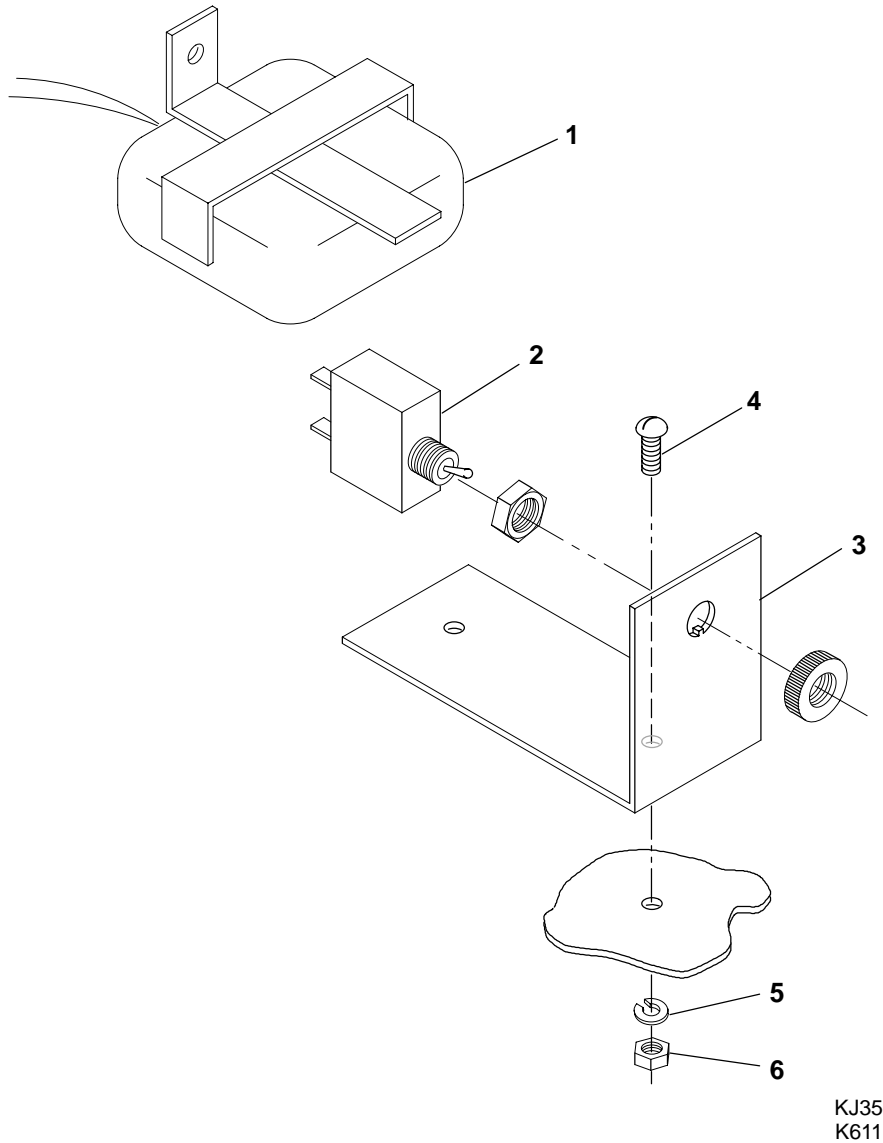
Paralleling Interconnect Terminal Block



KJ35
K904

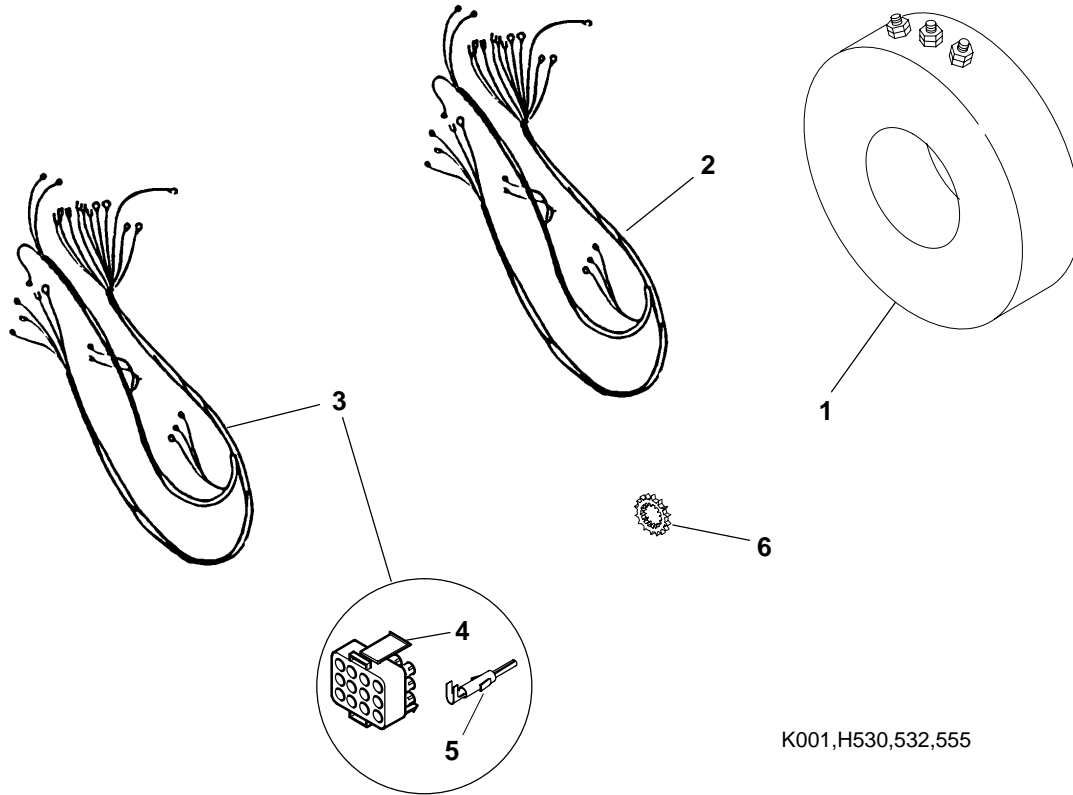
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1137	1	Panel, Mounting	6	853-0005	8	Washer, Lock – W/ET (#8)
2	338-2590	1	Harness, Wiring (Includes Four Terminal Blocks And Diode) (30 Wire, 84") (TB11, CR1 to VR21, CB21, ELM, A11 and GND)	7	813-0100	4	Screw, Machine – Round Head (#10-32 x 1/2")
3	332-2315	4	Block, Terminal (TB11)	8	870-0131	4	Nut, Hex – W/ET (#10-32)
4	357-0030	1	Diode (6 Amp) (CR1)	9	338-2172	1	Harness, Wiring – Governor (Shielded) (5 Wire, 39")
5	812-0085	8	Screw, Machine – Round Head (#8-32 x 1-1/8")	10	508-0051	1	Grommet, Rubber (Fits 2" Hole) (Control Knockout)

Cross Current Compensation Circuit



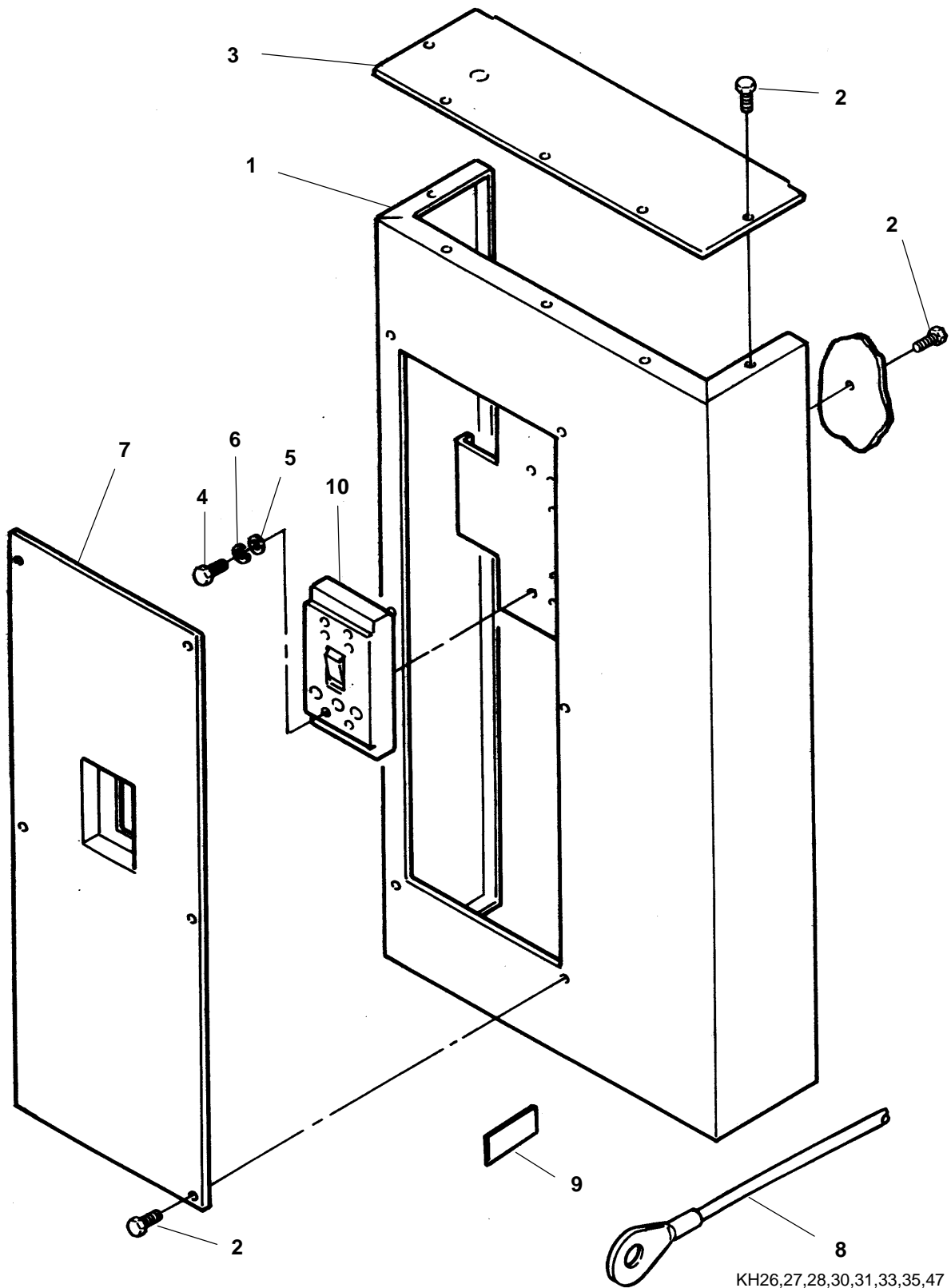
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-1852-02	1	Transformer, Current (CT) Sets With Model HC4 Generator (600:0.37 Ratio)	3	301-9657	1	Bracket, Mounting
	302-1852-03	1	Sets With Model HC5 Generator (600:0.38 Ratio)	4	813-0100	2	Screw, Machine – Round Head (#10-32 x 1/2")
2	308-0069	1	Switch, Toggle (S22)	5	850-0030	2	Washer, Lock – Spring (#10)
				6	870-0053	2	Nut, Hex (#10-32)

Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT21, CT22, CT23) Generator Sets With Detector Control	2	338-1980	1	Harness, Wiring – Generator Sets With Detector Control (TB21 And GND To CT21,22,23) (61")
	302-1794-08	3	Ratio 400/5 or 800/5	3	338-3019	1	Harness, Wiring – Generator Sets With PowerCommand Control (Includes Plug And Sockets) (P9 To CT21,22,23 And 5,6,7,8) (60")
	302-1794-09	3	Ratio 500/5 or 1000/5				
	302-1794-10	3	Ratio 600/5 or 1200/5	4	323-1644-03	1	Plug – 12 Place – Generator Sets With PowerCommand Control (P9)
	302-1794-11	3	Ratio 750/5 or 1500/5	5	323-1648	10	Socket, Contract – Generator Sets With PowerCommand Control
	302-1794-12	3	Ratio 1500/5 or 3000/5	6	856-0008	2	Washer, Lock – EIT (5/16") (Grounding Wires)
			Generator Sets With Power Command Control				
	302-1922-16	3	Ratio 604/1 or 1208/1				
	302-1922-18	3	Ratio 656/1 or 1312/1				
	302-1922-21	3	Ratio 789/1 or 1578/1				
	302-1922-23	3	Ratio 867/1 or 1734/1				
	302-1922-24	3	Ratio 946/1 or 1892/1				
	302-1922-27	3	Ratio 1104/1 or 2208/1				
	302-1922-29	3	Ratio 1262/1 or 2524/1				

**Circuit Breaker
UL Listed
DFBF, DFCB, DFCC Spec H**

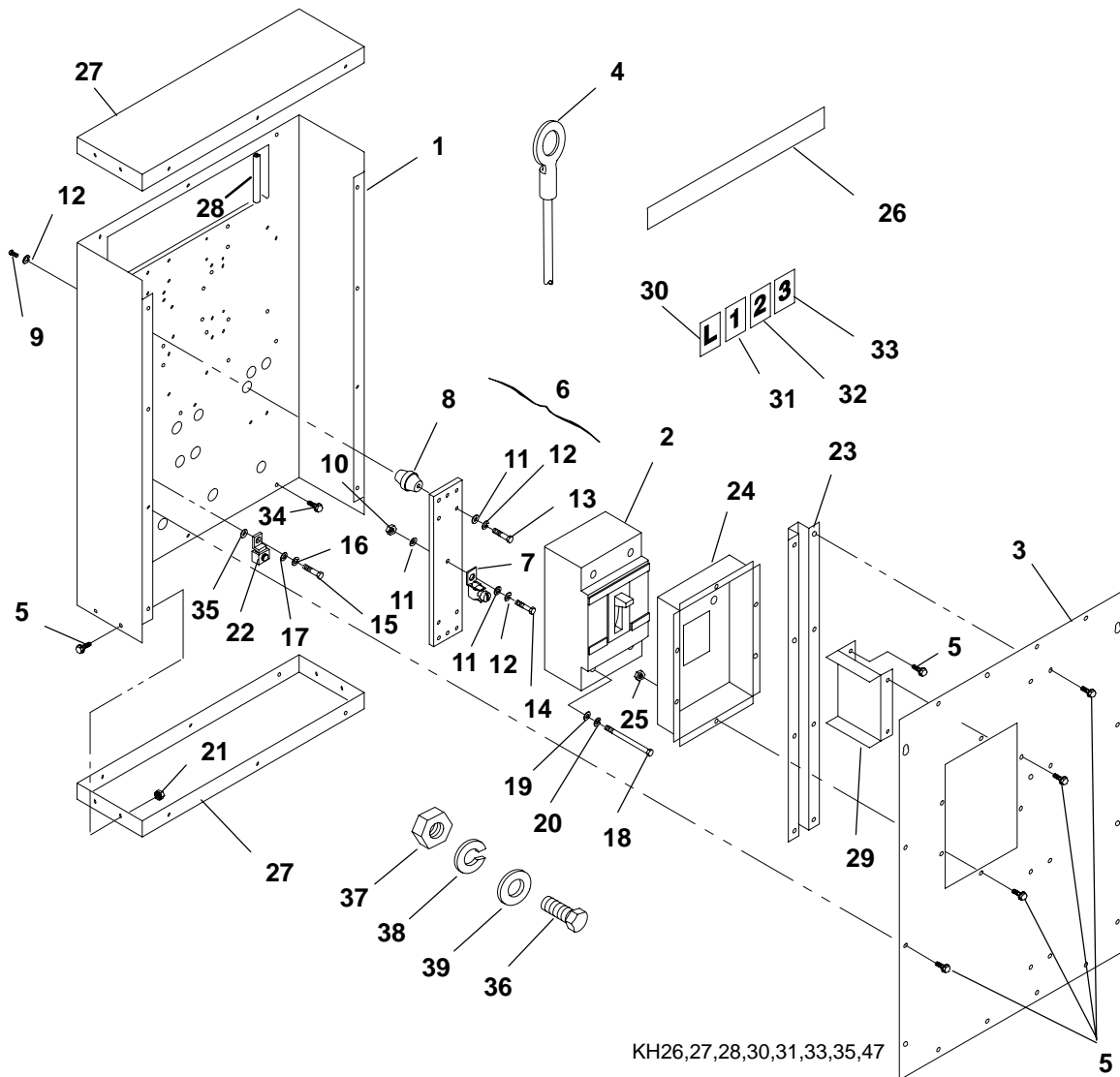


**Circuit Breaker
UL Listed
DFBF, DFCB, DFCC Spec H**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9654	1	Box, Circuit Breaker	10			Breaker, Circuit (Includes Lugs) (CB21)
2	821-0010	22	Screw, Self-Locking – Hex Washer Head (1/4–20 x 1/2")				Standard
3	319-1355	2	Panel	320-1460-09	1		400 Amp
4			Screw – Breaker Mounting	320-1460-10	1	*	450 Amp
	812-0157	4	Machine – Round Head (1/4–20 x 1–3/4")	320-1460-11	1	*	500 Amp
	800-0031	4	Cap – Hex Head (5/16–18 x 1–1/2")	320-1461-07	1	*	700 Amp
			Washer, Flat – Breaker Mounting	320-1461-08	1	*	800 Amp
5				320-1461-09	1	*	1000 Amp
	526-0108	4	1/4"	320-1461-10	1	*	1200 Amp
	526-0115	4	5/16"				With Auxiliary Contacts
6			Washer, Lock – Spring – Breaker Mounting	320-1464-09	1		400 Amp
	850-0040	4	1/4"	320-1464-10	1	*	450 Amp
	850-0045	4	5/16"	320-1464-11	1	*	500 Amp
7			Cover	320-1465-07	1	*	700 Amp
	319-0767	1	2–7/8" x 3–5/8" Circuit Breaker Opening	320-1465-08	1	*	800 Amp
	301-9651	1	3–1/2" x 4–1/4" Circuit Breaker Opening	320-1465-09	1	*	1000 Amp
8			Lead, Circuit Breaker (Quantity Used As Required)	320-1465-10	1	*	1200 Amp
	226-3371	1	40"				With Shunt Trip
	226-3376	1	56" (Marked "LO")	320-1472-09	1		400 Amp
9	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers) (Quantity Used As Required)	320-1472-10	1	*	450 Amp
				320-1472-11	1	*	500 Amp
				320-1473-07	1	*	700 Amp
				320-1473-08	1	*	800 Amp
				320-1473-09	1	*	1000 Amp
				320-1473-10	1	*	1200 Amp
							With Auxiliary Contacts and Shunt Trip
				320-1492-09	1		400 Amp
				320-1492-10	1	*	450 Amp
				320-1492-11	1	*	500 Amp
				320-1493-07	1	*	700 Amp
				320-1493-08	1	*	800 Amp
				320-1493-09	1	*	1000 Amp
				320-1493-10	1	*	1200 Amp

* – Circuit Breakers With Interchangeable Trip

Circuit Breaker
UL Listed
DFBF, DFCB, DFCC Spec J Through M
DFCE Spec A



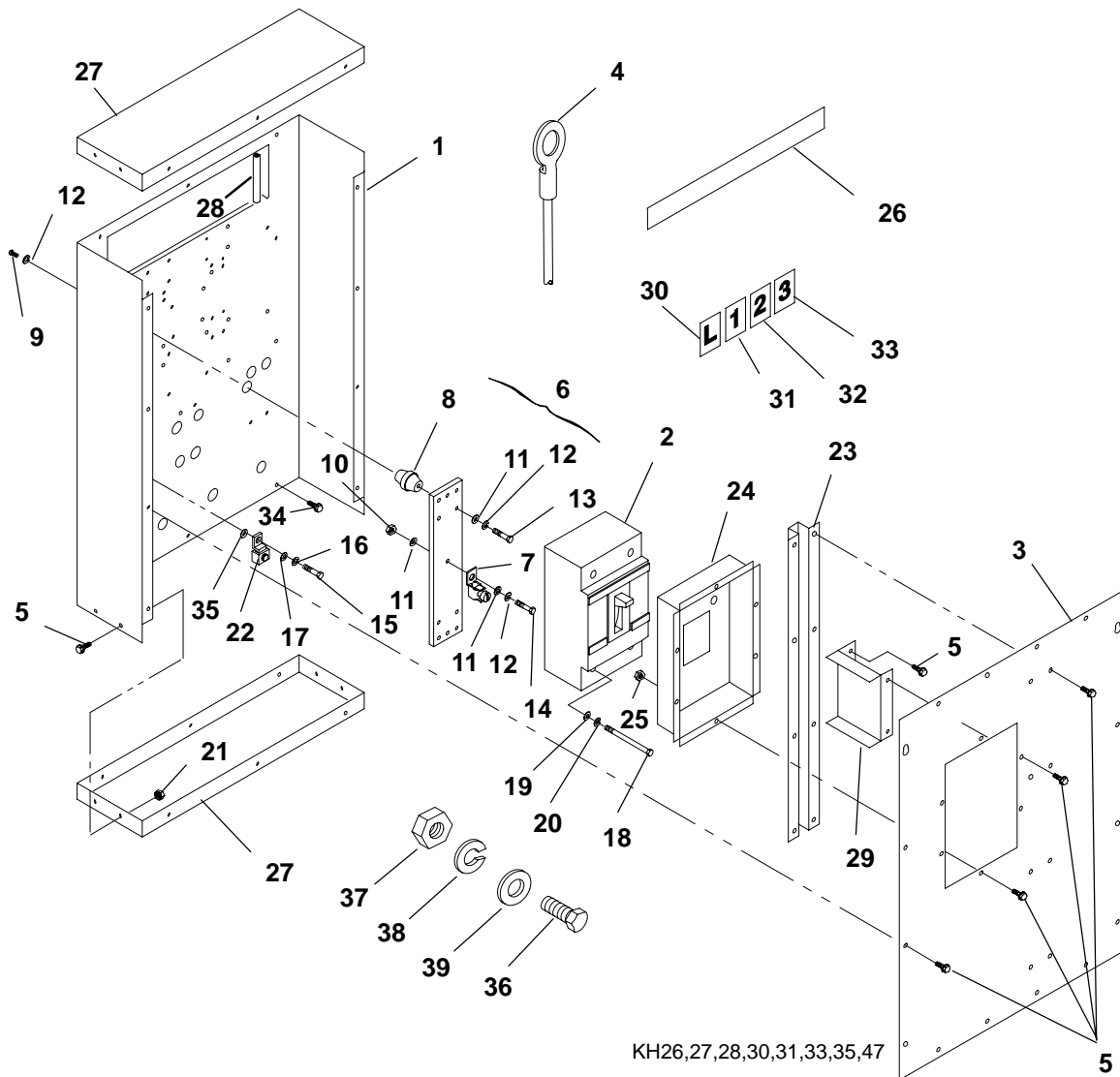
Circuit Breaker
UL Listed
DFBF, DFCB, DFCC Spec J Through M
DFCE Spec A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2432	1	Box, Circuit Breaker	8	332-2744-07	2	#Standoff, Insulator
2			Breaker, Circuit – 3 Pole (Includes Lugs) (CB21)	9	800-0048	2	#Screw, Cap – Hex Head (3/8-16 x 3/4")
			Standard	10	862-0003	3	#Nut, Hex (3/8")
	320-1460-09	1	400 Amp	11	526-0029	8	#Washer, Flat (3/8")
	320-1460-10	1	* 450 Amp	12	850-0050	7	#Washer, Lock – Spring (3/8")
	320-1460-11	1	* 500 Amp	13	800-0051	2	#Screw, Cap – Hex Head (3/8-16 x 1-1/4")
	320-1460-12	1	* 600 Amp	14	800-0052	3	#Screw, Cap – Hex Head (3/8-16 x 1-1/2")
	320-1461-07	1	* 700 Amp	15	800-0050	1	Screw, Cap – Hex Head (3/8-16 x 1")
	320-1461-08	1	* 800 Amp	16	850-0050	1	Washer, Lock – Spring (3/8")
	320-1461-09	1	* 1000 Amp	17	526-0029	1	Washer, Flat (3/8")
	320-1461-10	1	* 1200 Amp	18			Screw
			With Auxiliary Contacts		812-0157	4	Machine – Round Head (1/4-20 x 1-3/4") 400 To 600 Amp Breakers
	320-1464-09	1	400 Amp		800-0031	4	Cap – Hex Head (5/16-18 x 1-1/2") 700 To 1200 Amp Breakers
	320-1464-10	1	* 450 Amp	19			Washer, Flat
	320-1464-11	1	* 500 Amp		526-0108	4	1/4" – 400 To 600 Amp Breakers
	320-1464-12	1	* 600 Amp		526-0115	4	5/16" – 700 To 1200 Amp Breakers
	320-1465-07	1	* 700 Amp	20			Washer, Lock – Spring
	320-1465-08	1	* 800 Amp		850-0040	4	1/4" – 400 To 600 Amp Breakers
	320-1465-09	1	* 1000 Amp		850-0045	4	5/16" – 700 To 1200 Amp Breakers
	320-1465-10	1	* 1200 Amp	21	870-0494	16	Nut, Self-Retaining (1/4-20)
			With Shunt Trip	22	332-2001	1	Lug, Solderless
	320-1472-09	1	400 Amp	23	319-1918	1	Brace, Cover
	320-1472-10	1	* 450 Amp	24			Cup, Circuit Breaker
	320-1472-11	1	* 500 Amp		319-2431-13	1	Used With 400 To 600 Amp Breakers
	320-1472-12	1	* 600 Amp		319-2431-14	1	Used With 700 To 1200 Amp Breakers
	320-1473-07	1	* 700 Amp	25	870-0212	6	Nut, Locking (1/4-20)
	320-1473-08	1	* 800 Amp	26	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers) (Quantity Used As Required)
	320-1473-09	1	* 1000 Amp				
	320-1473-10	1	* 1200 Amp				
			With Auxiliary Contacts and Shunt Trip				
	320-1492-09	1	400 Amp				
	320-1492-10	1	* 450 Amp				
	320-1492-11	1	* 500 Amp				
	320-1492-12	1	* 600 Amp				
	320-1493-07	1	* 700 Amp				
	320-1493-08	1	* 800 Amp				
	320-1493-09	1	* 1000 Amp				
	320-1493-10	1	* 1200 Amp				
3	319-1917	1	Cover				
4			Lead, Circuit Breaker (Quantity Used As Required) 39" (Without Markings) (#1/0 Wire)				
	226-4406-03	1	1/2" Ring Terminal End to 1" Stripped End				
	226-4406-04	1	1/2" Ring Terminal End to 1/2" Ring Terminal End				
5	821-5002-03	40	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")				
6	300-4318-01	1	Bar Assembly, Neutral (Includes Neutral Bars, Labels and Parts Marked #)				
7	332-2001	3	#Lug, Solderless				

* – Circuit Breakers With Interchangeable Trip
– Parts Included In 300-4318-01 Neutral Bar Assembly

Continued...

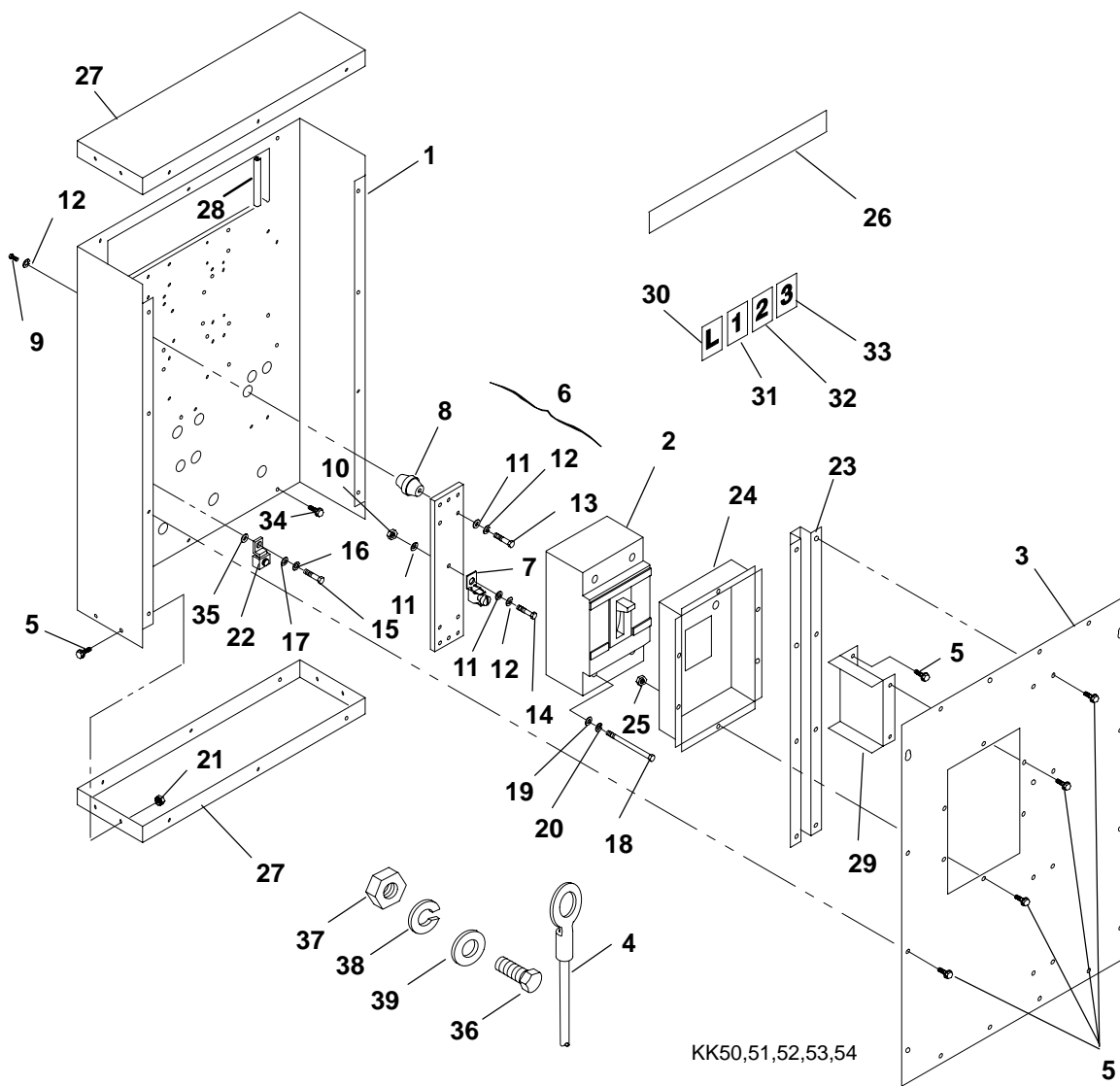
Circuit Breaker
UL Listed
DFBF, DFCB, DFCC Spec J Through M
DFCE Spec A



**Circuit Breaker
UL Listed
DFBF, DFCB, DFCC Spec J Through M
DFCE Spec A**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
27	319-1915	2	Panel				The following four hardware items are used to fasten the load leads to the generator and neutral bar on HC5 generators. Quantity used as required.
28	508-1092	–	Edging – Bulk (Order By The Foot – 3 Feet Required)				
29	319-1927	1	Brace, Cover				
30	098-5854-06	3	Label, Marker (10 Characters Per Card) Marked "L"				
31	098-5854-07	1	Label, Marker (10 Characters Per Card) Marked "1"	36	800-0094	1	Screw, Cap – Hex Head (1/2-13 x 2")
32	098-5854-08	1	Label, Marker (10 Characters Per Card) Marked "2"	37	862-0005	1	Nut, Hex (1/2-13)
33	098-5854-09	1	Label, Marker (10 Characters Per Card) Marked "3"	38	850-0060	1	Washer, Lock – Spring (1/2")
34	821-5002-04	5	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")	39	526-0219	1	Washer, Flat (1/2")
35	856-0010	1	Washer, Lock – EIT (3/8")	* – Circuit Breakers With Interchangeable Trip # – Parts Included In 300-4318-01 Neutral Bar Assembly			

Disconnect Switch
Molded Case
UL Listed
DFBF, DFCB, DFCC Spec L and M
DFCE Spec A

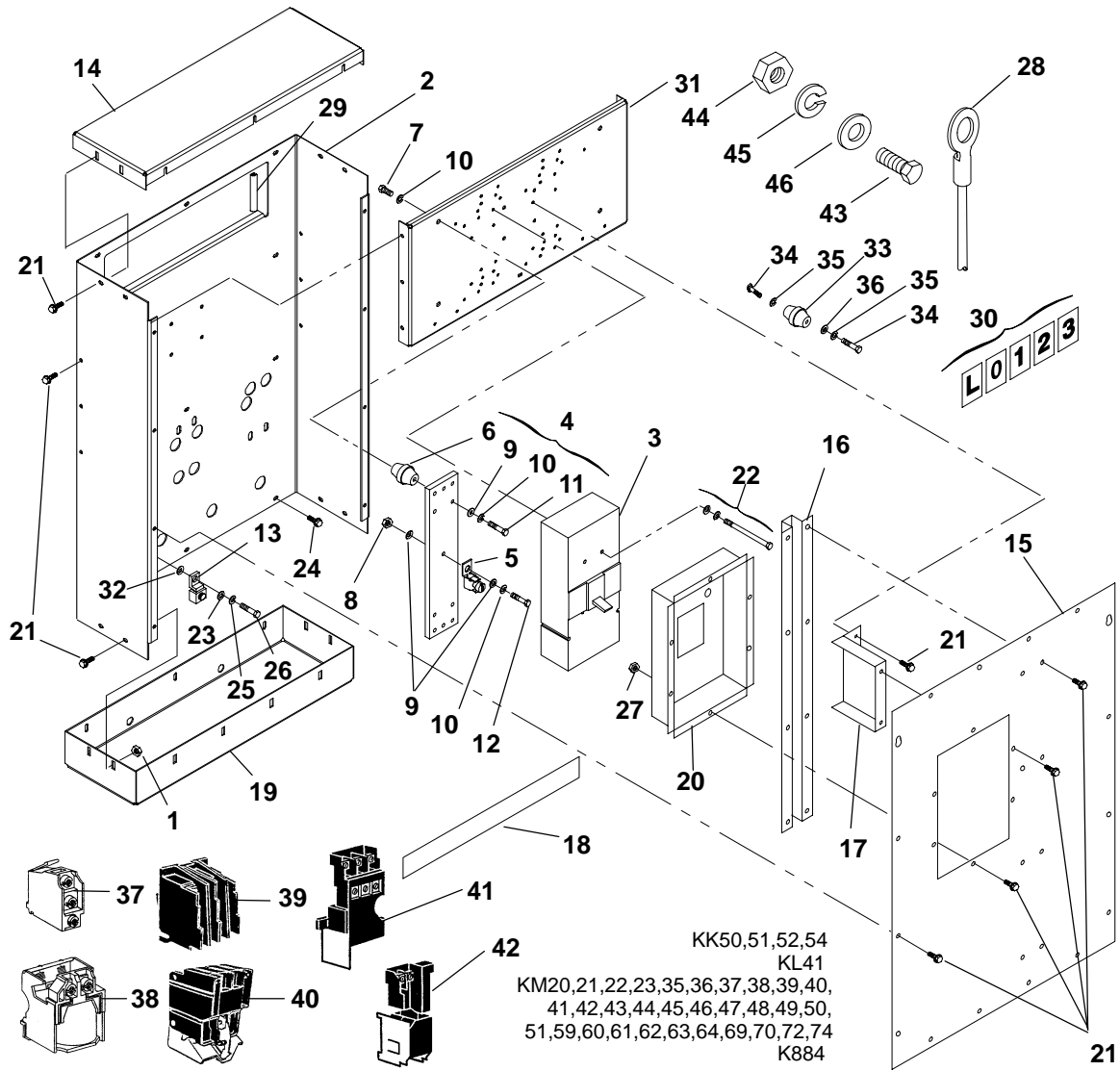


**Disconnect Switch
Molded Case
UL Listed
DFBF, DFCB, DFCC Spec L and M
DFCE Spec A**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2432	1	Box, Disconnect Switch	20			Washer, Lock – Spring
2			Switch, Disconnect – 3 Pole (Includes Line and Load Lugs) (CB21)	850-0040	4		1/4" – 400 and 600 Amp Switches
	320-1906-17	1	400 Amp	850-0045	4		5/16" – 800 to 1200 Amp Switches
	320-1906-18	1	600 Amp	21	870-0494	16	Nut, Self-Retaining (1/4-20)
	320-1906-19	1	800 Amp	22	332-2001	1	Lug, Solderless
	320-1906-20	1	1000 Amp	23	319-1918	1	Brace, Cover
	320-1906-21	1	1200 Amp	24			Cup, Disconnect Switch
3	319-1917	1	Cover	319-2431-13	1		Used With 400 and 600 Amp Switches
4			Lead, Disconnect Switch (Quantity Used As Required) 39" (Without Markings) (#1/0 Wire)	319-2431-14	1		Used With 800 to 1200 Amp Switches
	226-4406-03	1	1/2" Ring Terminal End to 1" Stripped End	25	870-0212	6	Nut, Locking (1/4-20)
	226-4406-04	1	1/2" Ring Terminal End to 1/2" Ring Terminal End	26	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to disconnect switches) (Quantity Used As Required)
5	821-0010	40	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	27	319-1915	2	Panel
6	300-4318-01	1	Bar Assembly, Neutral (Includes Neutral Bars, Labels and Parts Marked *)	28	508-1092	–	Edging – Bulk (Order By The Foot – 3 Feet Required)
7	332-2001	3	*Lug, Solderless	29	319-1927	1	Brace, Cover
8	332-2744-07	2	*Standoff, Insulator	30	098-5854-06	3	Label, Marker (10 Characters Per Card) Marked "L"
9	800-0048	2	*Screw, Cap – Hex Head (3/8-16 x 3/4")	31	098-5854-07	1	Label, Marker (10 Characters Per Card) Marked "1"
10	862-0003	3	*Nut, Hex (3/8")	32	098-5854-08	1	Label, Marker (10 Characters Per Card) Marked "2"
11	526-0029	8	*Washer, Flat (3/8")	33	098-5854-09	1	Label, Marker (10 Characters Per Card) Marked "3"
12	850-0050	7	*Washer, Lock – Spring (3/8")	34	821-0018	5	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")
13	800-0051	2	*Screw, Cap – Hex Head (3/8-16 x 1-1/4")	35	856-0010	1	Washer, Lock – EIT (3/8")
14	800-0052	3	*Screw, Cap – Hex Head (3/8-16 x 1-1/2")				The following four hardware items are used to fasten the load leads to the generator and neutral bar on HC5 generators. Quantity used as required.
15	800-0050	1	Screw, Cap – Hex Head (3/8-16 x 1")				
16	850-0050	1	Washer, Lock – Spring (3/8")				
17	526-0029	1	Washer, Flat (3/8")				
18			Screw				
	812-0157	4	Machine – Round Head (1/4-20 x 1-3/4") 400 and 600 Amp Switches	36	800-0094	1	Screw, Cap – Hex Head (1/2-13 x 2")
	800-0031	4	Cap – Hex Head (5/16-18 x 1-1/2") 800 to 1200 Amp Switches	37	862-0005	1	Nut, Hex (1/2-13)
			Washer, Flat	38	850-0060	1	Washer, Lock – Spring (1/2")
19			1/4" – 400 and 600 Amp Switches	39	526-0219	1	Washer, Flat (1/2")
	526-0108	4	5/16" – 800 to 1200 Amp Switches				
	526-0115	4					

* – Parts Included In 300-4318-01 Neutral Bar Assembly

Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
DFBF, DFCB, DFCC Begin Spec N
DFCE Begin Spec B



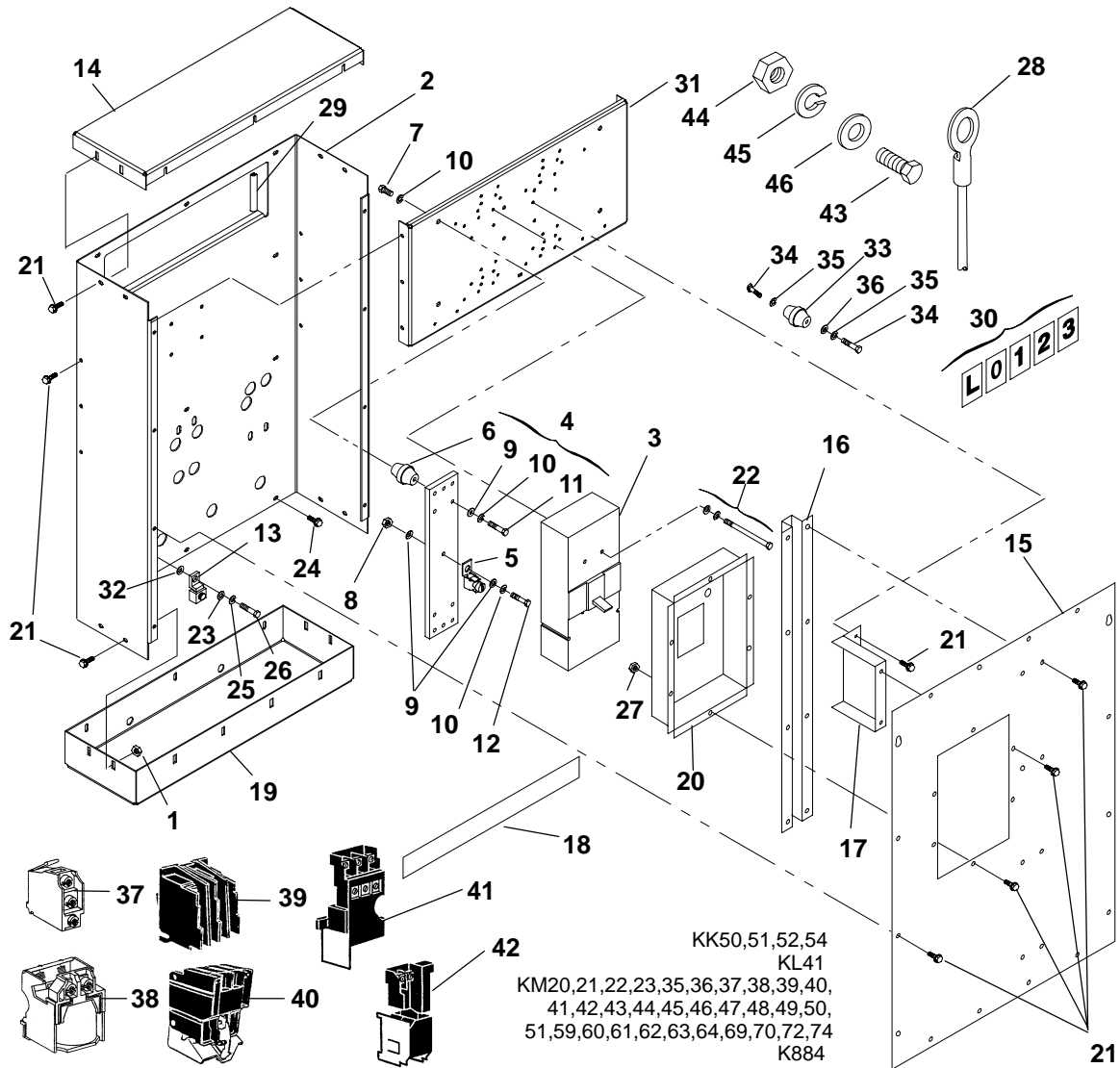
Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
DFBF, DFCB, DFCC Begin Spec N
DFCE Begin Spec B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0504	16	Nut, Self-Retaining (M6)				Disconnect Switches
2	319-3169	1	Box, Circuit Breaker				3 Pole (UL, IEC)
3			The following listed Circuit Breakers and Disconnect Switches include lugs and mounting hardware.				400 Amp
			Circuit Breakers	320-1991-02	1		DFBF, DFCB, DFCC Spec N Through R, DFCE Spec B
			3 Pole (UL, IEC)	320-1990-02	1		DFBF, DFCB, DFCC Begin Spec S, DFCE Begin Spec C
	320-1970-06	1	125 Amp				600 Amp
	320-1970-05	1	150 Amp				DFBF, DFCB, DFCC Spec N Through R, DFCE Spec B
			175 Amp	320-1991-01	1		DFBF, DFCB, DFCC Spec N Through R, DFCE Spec B
	320-1970-04	1	DFBF, DBCB, DFCC				800 Amp
	320-1959-04	1	DFCE	320-1990-01	1		DFBF, DFCB, DFCC Begin Spec S, DFCE Begin Spec C
			200 Amp				1200 Amp
	320-1970-03	1	DFBF, DFCB, DFCC	320-1992-02	1		#Bar Assembly, Neutral (Includes Neutral Bars, Labels and Parts Marked *)
	320-1959-03	1	DFCE	320-1992-01	1		*#Lug, Solderless
			225 Amp	4	300-4318-01	1	*#Standoff, Insulator
	320-1970-02	1	DFBF, DFCB, DFCC	7	800-0048	2	*#Screw, Cap – Hex Head (3/8-16 x 3/4")
	320-1959-02	1	DFCE	8	862-0003	3	*#Nut, Hex (3/8")
			250 Amp	9	526-0029	8	*#Washer, Flat (3/8")
	320-1970-01	1	DFBF, DFCB, DFCC	10	850-0050	7	*#Washer, Lock – Spring (3/8")
	320-1959-01	1	DFCE	11	800-0051	2	*#Screw, Cap – Hex Head (3/8-16 x 1-1/4")
			300 Amp	12	800-0052	3	*#Screw, Cap – Hex Head (3/8-16 x 1-1/2")
	320-1963-06	1	DFBF, DFCB, DFCC	13	332-2001	1	Lug, Solderless
	320-1960-06	1	DFCE	14	319-1915	1	Panel – Top
			350 Amp	15			Cover
	320-1963-05	1	DFBF, DFCB, DFCC		319-1917	1	All Except 4 Pole Switches Mounted on the Right Side When Facing Control
	320-1960-05	1	DFCE		319-2463	1	4 Pole Switches Mounted on the Right Side When Facing Control
			400 Amp				Brace, Cover
	320-1963-04	1	DFBF, DFCB, DFCC	16	319-3284	1	Brace, Cover
	320-1960-04	1	DFCE	17	319-3333	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers and disconnect switches) (Quantity Used As Required)
			450 Amp	18	091-0002	1	Panel – Bottom
	320-1963-03	1	DFBF, DFCB, DFCC				
	320-1960-03	1	DFCE				
			500 Amp				
	320-1963-02	1	DFBF, DFCB, DFCC				
	320-1960-02	1	DFCE				
			600 Amp				
	320-1963-01	1	DFBF, DFCB, DFCC				
	320-1960-01	1	DFCE				
	320-1964-05	1	700 Amp				
	320-1964-04	1	800 Amp				
	320-1964-03	1	900 Amp				
	320-1964-02	1	1000 Amp				
	320-1964-01	1	1200 Amp				
			4 Pole (IEC)				
	320-1960-09	1	400 Amp				
	320-1960-08	1	500 Amp				
	320-1960-07	1	630 Amp				
	320-1964-08	1	800 Amp				
	320-1964-07	1	1000 Amp				
	320-1964-06	1	1250 Amp				

* – Parts Included In 300-4318-01 Neutral Bar Assembly
– Parts Used With Three Pole Circuit Breakers and Disconnect Switches

Continued...

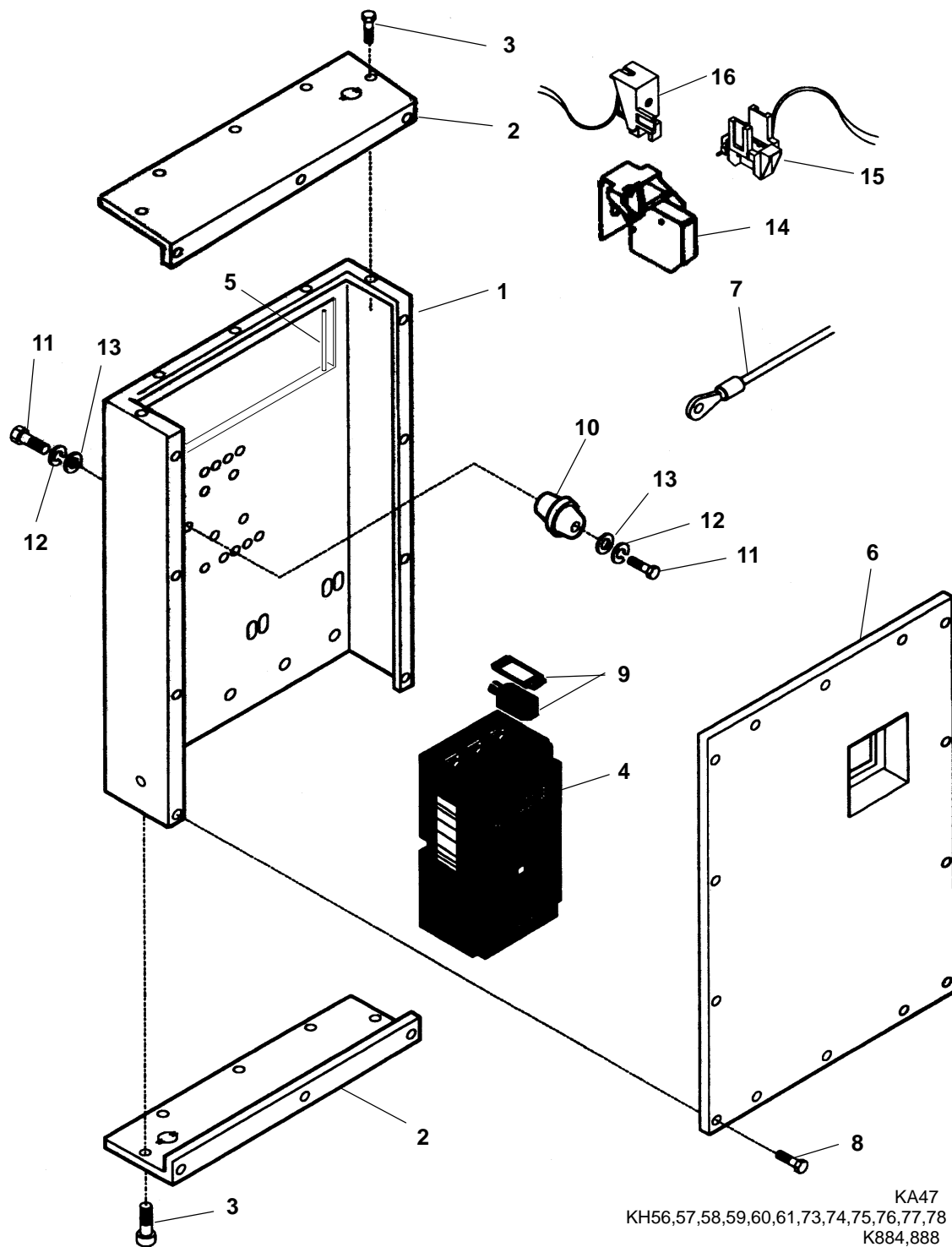
Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
DFBF, DFCB, DFCC Begin Spec N
DFCE Begin Spec B



Circuit Breaker and Disconnect Switch
UL Listed, IEC Conformity
DFBF, DFCB, DFCC Begin Spec N
DFCE Begin Spec B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
20			Cup	31	319-3329	1	Bracket, Mounting
	319-2431-27	1	1-7/8" x 3-1/32" Opening	32	856-0010	1	Washer, Lock – EIT (3/8")
	319-2431-29	1	2" x 3-11/32" Opening	33	332-2744-07	1	Standoff, Insulator
	319-2431-31	1	2-1/2" x 4-9/16" Opening	34	800-0048	2	Screw, Cap – Hex Head (3/8-16 x 3/4")
	319-2431-26	1	2-7/8" x 4" Opening	35	850-0050	2	Washer, Lock – Spring (3/8")
	319-2431-30	1	3-5/16" x 4-3/8" Opening	36	526-0029	1	Washer, Flat (3/8")
21	821-6002-03	53	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	Accessories, Circuit Breaker:			
22			Package, Hardware – Mounting (Includes Screws, Nuts and Lock Washers – 1 Package Required Per Switch)	The following are used on 320-1959-XX and 320-1960-XX Circuit Breakers			
	320-1986-08	1	Used With 320-1959-XX Circuit Breaker Switches	37	320-1981-01	1	Switch – Used as a Trip Alarm or Auxiliary Contact
	320-1986-07	1	Used With 320-1960-XX Circuit Breakers and 320-1990-XX Disconnect Switches	38	320-1981-03	1	24 Volt Shunt Trip
	320-1986-02	1	Used With 320-1963-XX Circuit Breakers and 320-1991-XX Disconnect Switches	Accessories, Circuit Breaker:			
	320-1986-01	1	Used With 320-1964-XX Circuit Breakers and 320-1992-02 Disconnect Switches	The following are used on 320-1963-XX and 320-1964-XX Circuit Breakers			
	320-1986-03	1	Used With 320-1970-XX Circuit Breaker Switches	39	320-1977-01	1	Switches – Includes 1 Trip Alarm and 1 Auxiliary Contact
23	526-2120	1	Washer, Flat (M10)	40	320-1977-03	1	24 Volt Shunt Trip
24	821-2034	2	Screw, Self-Locking – Hex Washer Head (M6 x 20mm)	Accessories, Circuit Breaker:			
25	850-2010	1	Washer, Lock – Spring (M10)	The following are used on 320-1970-XX Circuit Breakers			
26	800-2088	1	Screw, Cap – Hex Head (M10 x 35mm)	41	320-1978-01	1	Switches – Includes 1 Trip Alarm and 1 Auxiliary Contact
27	870-2054	4	Nut, Hex – Flange (M6)	42	320-1978-03	1	24 Volt Shunt Trip
28			Lead (Quantity Used As Required) 39" (Without Markings) (#1/0 Wire)	The following four hardware items are used to fasten the load leads to the generator and neutral bar on HC5 generators. Quantity used as required.			
	226-4406-03	1	1/2" Ring Terminal End to 1" Stripped End	43	800-2116	1	Screw, Cap – Hex Head (M12 x 50mm)
	226-4406-04	1	1/2" Ring Terminal End to 1/2" Ring Terminal End	44	860-2010	1	Nut, Hex (M12)
				45	850-2012	1	Washer, Lock – Spring (M12)
				46	526-2140	1	Washer, Flat (M12)
29	508-1092	–	Edging – Bulk (Order By The Foot – 3 Feet Required)				
30			Label, Marker (10 Characters Per Card) (Quantity Used As Required)	* – Parts Included In 300-4318-01 Neutral Bar Assembly			
	098-5854-06	1	Marked "L"	# – Parts Used With Three Pole Circuit Breakers and Disconnect Switches			
	098-5854-07	1	Marked "1"				
	098-5854-08	1	Marked "2"				
	098-5854-09	1	Marked "3"				
	098-5854-10	1	Marked "0"				

**Circuit Breaker
Non-UL Listed
DFBF, DFCB, DFCC Spec H**

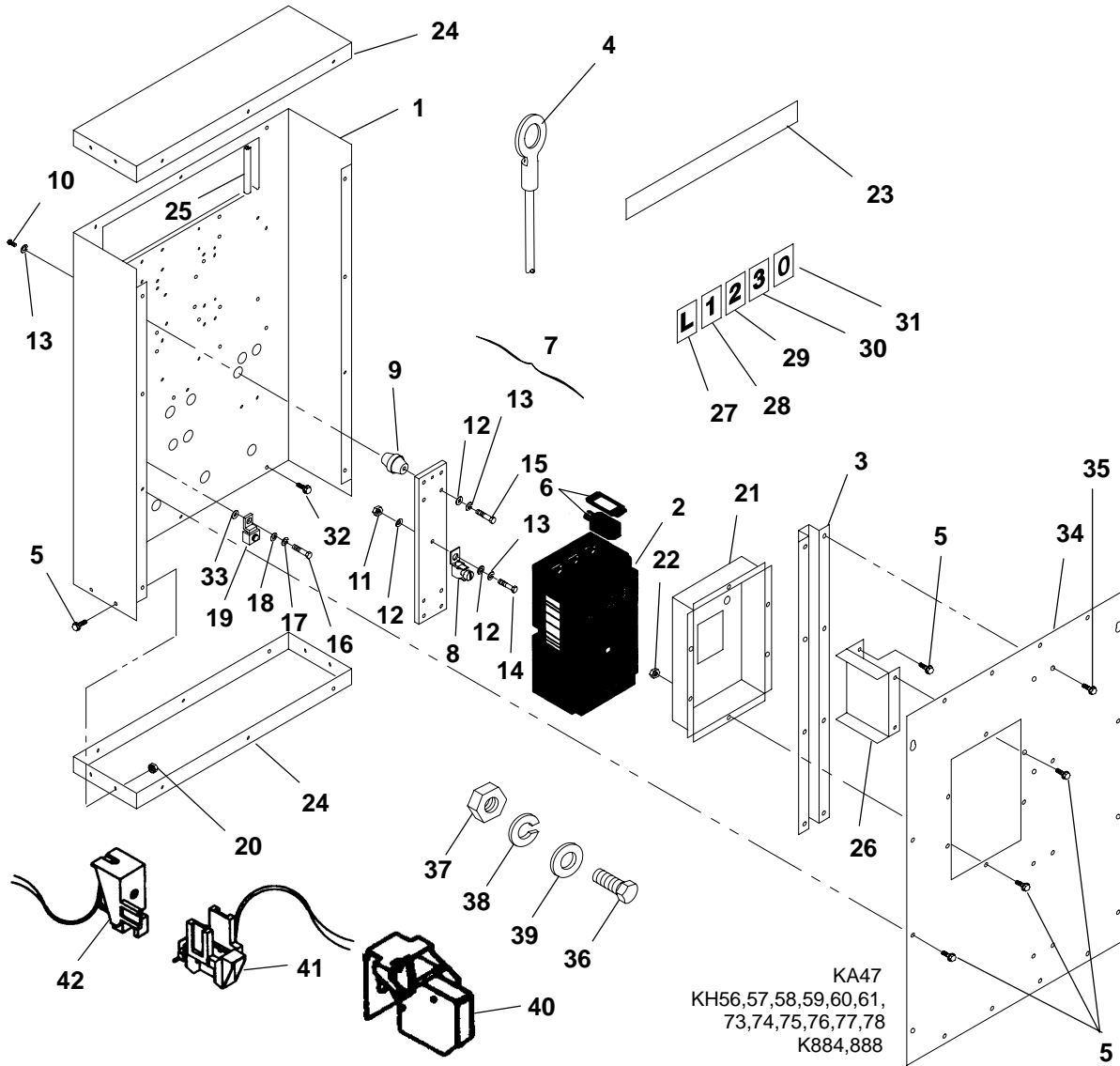


**Circuit Breaker
Non-UL Listed
DFBF, DFCB, DFCC Spec H**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1354	1	Box, Circuit Breaker	8	821-0010	14	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
2	319-1355	2	Panel	9			Lug Set – Circuit Breaker (Packaged In Sets – Two Lugs Per Set) (Quantity Used As Required)
3	821-0010	10	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")				
4			Breaker, Circuit (Includes Mounting Screws) (Lugs Not Included) (CB21)				
			Three Pole Breakers				
	320-1727-03	1	400 Amp		320-1755-13	1	Circuit Breaker Frame Size D400
	320-1728-02	1	500 Amp		320-1755-14	1	Circuit Breaker Frame Size D630
	320-1728-03	1	630 Amp		320-1755-16	1	Circuit Breaker Frame Size D800
	320-1729-03	1	800 Amp				
	320-1730-03	1	1000 Amp		320-1755-15	1	Circuit Breaker Frame Size D1250
	320-1730-04	1	1250 Amp				
			Four Pole Breakers				
	320-1727-06	1	400 Amp	10	332-2744-07	1	*Standoff, Insulator
	320-1728-05	1	500 Amp	11	800-0050	2	*Screw, Cap – Hex Head (3/8-16 x 1")
	320-1728-06	1	630 Amp	12	850-0050	2	*Washer, Lock – Spring (3/8")
	320-1729-06	1	800 Amp	13	526-0029	2	*Washer, Flat (3/8")
	320-1730-07	1	1000 Amp	14			Contact, Auxiliary
	320-1730-08	1	1250 Amp		320-1747-15	1	400 to 800 Amp Breakers
5	508-0239	–	Edging – Bulk (Order By The Foot – 3 Feet Required)		320-1747-18	1	1000, 1250 Amp Breakers
6			Cover	15			Alarm, Bell
	319-1374	1	400 Amp Breakers		320-1748-13	1	400 to 800 Amp Breakers
	319-1373	1	500, 630, 800 Amp Breakers		320-1748-14	1	1000, 1250 Amp Breakers
	319-1402	1	1000 and 1250 Amp Breakers	16			Trip, 24 Volt Shunt
7			Lead – Circuit Breaker (Quantity Used As Required) (#1/0 Wire) (39")		320-1749-13	1	400 to 800 Amp Breakers
					320-1749-14	1	1000, 1250 Amp Breakers
	226-4406-01	1	1/2" Ring Terminal End to 3/8" Ring Terminal End – Marked "LO"				
	226-4406-02	1	1/2" Ring Terminal End to 1" Stripped End – Marked "LO"				
	226-4406-03	1	1/2" Ring Terminal End to 1" Stripped End – Without Markings				
	226-4406-04	1	1/2" Ring Terminal End to 1/2" Ring Terminal End – Without Markings				

* – Parts Used On Three Pole Circuit Breakers

**Circuit Breaker
Non-UL Listed
DFBF, DFCB, DFCC Spec J Through M
DFCE Spec A**



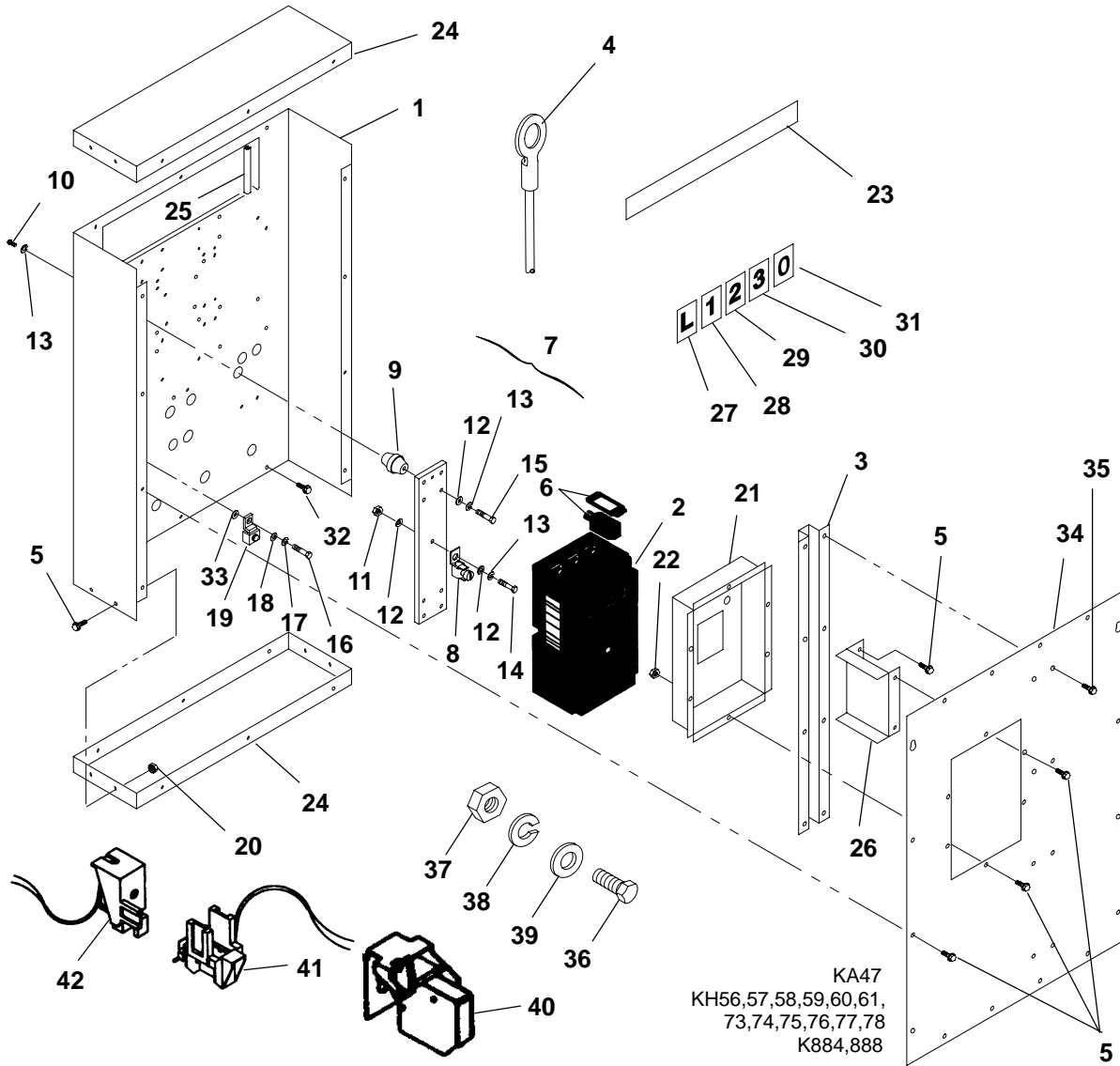
**Circuit Breaker
Non-UL Listed
DFBF, DFCB, DFCC Spec J Through M
DFCE Spec A**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Box, Circuit Breaker	16	800-0050	1	Screw, Cap – Hex Head (3/8-16 x 1")
	319-2433	1	3 Pole Circuit Breakers	17	850-0050	1	Washer, Lock – Spring (3/8")
	319-2464	1	4 Pole Circuit Breakers	18	526-0029	1	Washer, Flat (3/8")
2			Breaker, Circuit (Includes Mounting Screws) (Lugs Not Included) (CB21)	19	332-2001	1	Lug, Solderless
			Three Pole Breakers	20	870-0494	16	Nut, Self-Retaining – Floating (1/4-20)
	320-1727-03	1	400 Amp	21			Cup, Circuit Breaker
	320-1728-02	1	500 Amp		319-2431-16	1	Used With 400, 500, 630 and 800 Amp Breakers
	320-1728-03	1	630 Amp		319-2431-17	1	Used With 1000 and 1250 Amp Breakers
	320-1729-03	1	800 Amp				
	320-1730-03	1	1000 Amp	22	870-0212	6	Nut, Locking (1/4-20)
	320-1730-04	1	1250 Amp	23	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers) (Quantity Used As Required)
			Four Pole Breakers				
	320-1727-06	1	400 Amp	24	319-1915	2	Panel
	320-1728-05	1	500 Amp	25	508-1092	-	Edging – Bulk (Order By The Foot – 3 Feet Required)
	320-1728-06	1	630 Amp				
	320-1729-06	1	800 Amp	26	319-1927	1	Brace, Cover
	320-1730-07	1	1000 Amp	27			Label, Marker (10 Characters Per Card) Marked "L"
	320-1730-08	1	1250 Amp		098-5854-06	3	3 Pole Breakers
3	319-1918	1	Brace, Cover		098-5854-06	4	4 Pole Breakers
4			Lead – Circuit Breaker (Quantity Used As Required) 39" (Without Markings) (#1/0 Wire)	28	098-5854-07	1	Label, Marker (10 Characters Per Card) Marked "1"
	226-4406-03	1	1/2" Ring Terminal End to 1" Stripped End	29	098-5854-08	1	Label, Marker (10 Characters Per Card) Marked "2"
	226-4406-04	1	1/2" Ring Terminal End to 1/2" Ring Terminal End	30	098-5854-09	1	Label, Marker (10 Characters Per Card) Marked "3"
5	821-5002-03	32	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	31	098-5854-10	1	Label, Marker (10 Characters Per Card) Marked "0" (4 Pole Breakers)
6			Lug Set – Circuit Breaker (Packaged In Sets – Two Lugs Per Set) (Quantity Used As Required)	32	821-0009	5	Screw, Self-Locking – Hex Washer Head (1/4-20 x 3/8")
	320-1755-13	1	Circuit Breaker Frame Size D400	33	856-0010	1	Washer, Lock – EIT (3/8")
	320-1755-14	1	Circuit Breaker Frame Size D630	34	319-1917	1	Cover, Circuit Breaker
	320-1755-16	1	Circuit Breaker Frame Size D800				Sets With 3 Pole Breaker Mounted On Left Or Right Side When Facing Control
	320-1755-15	1	Circuit Breaker Frame Size D1250		319-1917	1	Sets With 4 Pole Breaker Mounted On Left Side When Facing Control
7	300-4318-01	1	#Bar Assembly, Neutral (Includes Neutral Bars, Labels and Parts Marked *)		319-2463	1	Sets With 4 Pole Breaker Mounted On Right Side When Facing Control
8	332-2001	3	*#Lug, Solderless				
9	332-2744-07	2	*#Standoff, Insulator				
10	800-0048	2	*#Screw, Cap – Hex Head (3/8-16 x 3/4")				
11	862-0003	3	*#Nut, Hex (3/8")				
12	526-0029	8	*#Washer, Flat (3/8")				
13	850-0050	7	*#Washer, Lock – Spring (3/8")				
14	800-0051	2	*#Screw, Cap – Hex Head (3/8-16 x 1-1/4")				
15	800-0052	3	*#Screw, Cap – Hex Head (3/8-16 x 1-1/2")				

* – Parts Included In 300-4318-01 Neutral Bar Assembly
– Parts Used On Three Pole Circuit Breakers

Continued...

**Circuit Breaker
Non-UL Listed
DFBF, DFCB, DFCC Spec J Through M
DFCE Spec A**



**Circuit Breaker
Non-UL Listed
DFBF, DFCB, DFCC Spec J Through M
DFCE Spec A**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
35	821-0010	8	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2") The following four hardware items are used to fasten the load leads to the generator and neutral bar on HC5 generators. Quantity used as required.	40			Contact, Auxiliary 400 to 800 Amp Breakers
					320-1747-15	1	400 to 800 Amp Breakers
					320-1747-18	1	1000, 1250 Amp Breakers
				41			Alarm, Bell
					320-1748-13	1	400 to 800 Amp Breakers
					320-1748-14	1	1000, 1250 Amp Breakers
				42			Trip, 24 Volt Shunt
					320-1749-13	1	400 to 800 Amp Breakers
					320-1749-14	1	1000, 1250 Amp Breakers
36	800-0092	15	Screw, Cap – Hex Head (1/2-13 x 1-1/2")				
37	862-0016	15	Nut, Hex (1/2-13)				
38	850-0060	15	Washer, Lock – Spring (1/2")				
39	526-0219	30	Washer, Flat (1/2")				

* – Parts Included In 300-4318-01 Neutral Bar Assembly
– Parts Used On Three Pole Circuit Breakers

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>
091-0002, 77, 143, 145, 149, 151, 157		130-3719, 43		130-4552, 47		149-2169-01, 21	
098-5854-06, 77, 147, 149, 153, 157		130-3721, 55		130-4586, 45		149-2170, 21	
098-5854-07, 77, 147, 149, 153, 157		130-3749-01, 55		130-4587, 45		149-2176, 61	
098-5854-08, 77, 147, 149, 153, 157		130-3749-02, 55		130-4588, 45		149-2177, 21	
098-5854-09, 77, 147, 149, 153, 157		130-4017, 55		130-4603, 45		149-2178, 21	
098-5854-10, 77, 153, 157		130-4018, 55		130-4664, 59		149-2278, 9	
102-1335, 11, 13, 15		130-4043, 49		130-4665, 55, 57, 59		149-2302, 61	
127-0387-02, 63		130-4079, 43		130-4666, 53		150-2213, 60	
128-0108, 45		130-4082, 43		130-4667, 49, 51, 53		150-2334, 61	
128-0117, 71		130-4083, 43		130-4668, 49, 51, 53		151-0411, 15, 60, 61	
128-0118, 71		130-4268, 55		130-4671, 57, 59		151-0637, 60	
130-1107, 107		130-4280, 53		130-4672, 49, 51		151-0663-02, 61	
130-3176-02, 65		130-4355, 57		130-4675, 53		155-0658, 34	
130-3180, 49, 51, 53, 57, 59		130-4355-01, 57		130-4725, 57, 59		155-1241, 34, 35, 36	
130-3184, 49, 51, 53, 55, 57, 59		130-4356, 57		130-4729, 49, 53, 57, 59		155-2062-06, 35, 36	
130-3193, 55, 57, 59		130-4362, 57, 59		130-4802, 57		155-2159, 35, 36	
130-3310, 51, 53		130-4369, 59		140-1545, 18, 19		155-2405, 35	
130-3311, 49, 51, 53		130-4373, 57		140-1548, 16, 17, 18, 19		155-2406, 35	
130-3314-01, 49		130-4375, 57		140-1973, 16, 17		155-2407, 35	
130-3342, 55		130-4376, 57, 59		140-2052, 18, 19		155-2409, 34	
130-3343, 51, 53		130-4379, 57, 59		140-2306-01, 22		155-2983, 35	
130-3520, 41		130-4383-01, 57		140-2384, 16, 17		155-3021, 45	
130-3521-01, 55, 57		130-4383-02, 57		140-2385, 16		155-3059, 35	
130-3521-02, 55, 57		130-4384-01, 57		140-2386, 18		155-3135, 35, 36	
130-3524, 55		130-4384-02, 57		140-2387, 18		155-3139, 35, 36	
130-3527, 55		130-4385, 55, 57		140-2388, 18, 19		155-3153, 36	
130-3528, 55		130-4386, 57		140-2389, 16, 17		155-3155, 36	
130-3529, 55		130-4387, 57		140-2390, 18, 19		155-3159, 35, 36	
130-3531, 55		130-4398, 59		140-2391, 16, 17		159-1208, 27, 29, 31	
130-3532-01, 55		130-4399, 59		140-2392, 18, 19		159-1217, 24	
130-3532-02, 55		130-4400, 59		140-2393, 18, 19		159-1218, 27, 29, 31	
130-3534, 55		130-4401-01, 59		140-2395, 18, 19		159-1311, 27	
130-3535, 55, 57, 59		130-4401-02, 59		140-2395-01, 17		159-1469, 27, 29, 31	
130-3554, 49, 51, 55		130-4402-01, 59		140-2519, 16		159-1470, 25	
130-3555, 55		130-4402-02, 59		140-2801, 22		179-2661-S0, 43	
130-3563, 49, 51, 53, 55		130-4403, 59		140-3096, 17		191-1856, 65	
130-3564, 49, 51, 53		130-4406-01, 59		140-3102, 19		191-1857, 65	
130-3588, 57, 59		130-4406-02, 59		140-3103, 19		191-1858, 62	
130-3660-01, 25, 57, 59		130-4407, 59		149-2165, 21		191-1926-02, 65	
		130-4407-01, 55, 57		149-2166-01, 21		191-1977, 64	
		130-4408, 59		149-2167-01, 21		191-1980, 64	
		130-4409, 59		149-2167-04, 21		191-1981, 64	
		130-4534, 55, 57		149-2168-01, 21		191-1982, 64	

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>
191-1983-02, 64		220-4468-02, 96		232-4011, 95		301-9054-04, 101	
191-2034-03, 89		220-4468-03, 96		234-0889, 93		301-9055-01, 103	
191-2121, 64		220-4468-04, 96		234-0890, 97		301-9055-02, 103	
193-0029, 20		220-4468-08, 96		234-0944, 93		301-9510, 79, 83, 87	
193-0128, 20		220-4468-09, 96		249-0168-03, 96		301-9511, 81, 85, 89	
193-0244, 11		220-4468-10, 96		249-0168-04, 96		301-9512, 79, 83, 87	
193-0250, 103		220-4474-01, 96		249-0168-05, 96		301-9629, 79, 83, 87	
193-0299, 128		220-4474-02, 96		249-0169-01, 96		301-9651, 143	
193-0351, 103		220-4474-05, 96		249-0171-03, 96		301-9654, 143	
193-0375, 11		226-3371, 143		249-0171-04, 96		301-9655, 73	
193-0388, 132		226-3376, 143		249-0171-05, 96		301-9657, 139	
193-0432, 15		226-4390-01, 43		249-0172-01, 96		301-9698, 73	
193-0435, 132		226-4390-02, 43		249-0797, 93		301-9933, 115	
193-0444, 15		226-4390-03, 43		249-5080-23, 96		301-9941, 119	
193-0446-01, 129		226-4406-01, 155		249-5080-24, 96		302-0885, 103	
193-0447-01, 13		226-4406-02, 155		249-5080-25, 96		302-1148, 101	
193-0448, 13		226-4406-03, 145, 149, 153, 155, 157		249-5081-23, 96		302-1642, 103	
193-0466, 103		226-4406-04, 145, 149, 153, 155, 157		249-5081-24, 96		302-1721-10, 124	
193-0468, 37, 38, 39		226-4406-06, 114		249-5081-25, 96		302-1721-11, 124	
193-0481, 37, 38, 39		226-4406-07, 77		249-5083-01, 96		302-1721-12, 124	
201-3455, 97		226-4406-08, 77		249-5084-01, 96		302-1721-13, 124	
201-3459-02, 96		226-4661-02, 38		249-5100-01, 96		302-1722, 124	
201-3459-03, 96		231-0322, 93		249-5100-02, 96		302-1723, 131, 133	
201-3459-04, 96		231-0345, 93		249-5101-01, 96		302-1726, 101	
201-3460, 93		232-3482, 93		300-2899, 117		302-1727, 101	
201-3505-01, 96		232-3518-01, 93		300-3464, 32		302-1728, 101	
201-3505-02, 96		232-3520-01, 95		300-3998-01, 123		302-1729, 101	
201-3508, 93		232-3522, 95		300-4111-02, 112		302-1753, 101	
201-3510, 97		232-3523, 95		300-4111-04, 112		302-1794-08, 141	
211-0431, 93		232-3524, 95		300-4218-02, 113		302-1794-09, 141	
211-0457, 93		232-3526, 97		300-4295, 99		302-1794-10, 141	
220-4248, 93		232-3527, 97		300-4297, 99		302-1794-11, 126, 141	
220-4249, 97		232-3536, 137		300-4318-01, 145, 149, 151, 157		302-1794-12, 141	
220-4252-02, 96		232-3722, 95		300-4515-01, 108, 109		302-1794-13, 126	
220-4252-03, 96		232-3775-02, 95		300-4515-02, 108, 109		302-1798, 101	
220-4252-04, 96		232-3782, 95		301-1886, 107		302-1833-01, 124	
220-4252-08, 96		232-3785-02, 95		301-6257, 131, 132, 133		302-1833-03, 125	
220-4252-09, 96		232-3849, 91		301-6987, 114, 115, 119, 124, 125		302-1833-05, 124	
220-4252-10, 96		232-3850, 91		301-8065, 99		302-1845-07, 126	
220-4389, 93		232-3966, 95		301-8851, 99		302-1845-08, 126	
220-4396, 97		232-3981-01, 93		301-9054-01, 101		302-1845-10, 126	
220-4398-01, 96						302-1852-02, 139	
220-4398-05, 96							

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>
302-1852-03, 139		308-0916-01, 23		319-1917, 145, 149, 151, 157		319-3106, 87	
302-1873-01, 131		308-1010, 103		319-1918, 75, 77, 145, 149, 157		319-3169, 75, 151	
302-1874, 128		308-1011, 103		319-1927, 75, 77, 147, 149, 157		319-3183, 75, 151	
302-1883, 125		308-1052, 101		319-2006-01, 105, 106		319-3251, 75	
302-1922-16, 141		308-1074, 25		319-2006-02, 105, 106		319-3255, 79	
302-1922-18, 141		308-1082, 101		319-2217, 83, 87		319-3257, 79	
302-1922-21, 141		309-0128, 107		319-2218, 79		319-3270-01, 79	
302-1922-23, 141		309-0269, 11, 13, 15		319-2220, 81, 85, 89		319-3270-02, 83, 87	
302-1922-24, 141		309-0436, 11		319-2236, 15		319-3273, 83, 87	
302-1922-27, 141		309-0437, 11		319-2431-13, 145, 149		319-3274, 79	
302-1922-29, 141		309-0561, 11		319-2431-14, 145, 149		319-3278, 79, 83, 87	
302-1968, 101		309-0576, 13		319-2431-16, 157		319-3284, 75, 151	
303-0032, 101		309-0641-03, 13		319-2431-17, 157		319-3287-01, 79, 83, 87	
303-0223-05, 130		309-0641-07, 11, 13		319-2431-26, 153		319-3287-02, 79, 83, 87	
303-0280, 130		309-0649, 45		319-2431-27, 153		319-3289, 79	
303-0285, 111		314-0212, 135		319-2431-29, 153		319-3290, 83, 87	
305-0653, 65		314-0213, 135		319-2431-30, 153		319-3291, 81, 85, 89	
305-0817, 110		315-0717, 137		319-2431-31, 153		319-3292, 87	
305-0821-02, 134		319-0030, 114, 124, 125		319-2432, 75, 145, 149		319-3294, 79, 83, 87	
305-0823, 111		319-0485, 32		319-2433, 157		319-3327, 83	
305-0868, 111		319-0486, 32		319-2463, 151, 157		319-3328, 87	
305-0870, 126		319-0489, 23, 25		319-2464, 157		319-3329, 153	
305-0901, 120		319-0490, 23, 25		319-2476, 79, 83, 87		319-3333, 151	
305-0902-02, 121		319-0652, 111		319-2726, 77		320-1460-09, 143, 145	
307-1056, 112		319-0743, 79		319-2727, 77		320-1460-10, 143, 145	
307-1911, 115		319-0745, 83		319-2768, 79, 83, 87		320-1460-11, 143, 145	
307-2167, 11, 13		319-0748, 79		319-2771-01, 79		320-1460-12, 145	
307-2552, 115		319-0754, 121		319-2771-02, 83, 87		320-1461-07, 143, 145	
307-2553, 119		319-0767, 143		319-2776, 79, 83, 87		320-1461-08, 143, 145	
307-2621-02, 15		319-0898, 122		319-2784-01, 79, 83, 87		320-1461-09, 143, 145	
307-2677-02, 32		319-1137, 138		319-2784-02, 79, 83, 87		320-1461-10, 143, 145	
307-2709, 119		319-1245, 137		319-2785, 79		320-1464-09, 143, 145	
307-2762, 43		319-1345, 79		319-2786, 83, 87		320-1464-10, 143, 145	
307-2843, 114		319-1346, 83		319-2787, 81, 85, 89		320-1464-11, 143, 145	
307-2859, 47		319-1354, 155		319-2814, 47		320-1464-12, 145	
307-2868, 116		319-1355, 73, 143, 155		319-2815, 45		320-1465-07, 143, 145	
307-2919, 119		319-1373, 155		319-2915, 45		320-1465-08, 143, 145	
307-2920, 119		319-1374, 155		319-3030, 99		320-1465-09, 143, 145	
308-0069, 139		319-1402, 155		319-3105, 87		320-1465-10, 143, 145	
308-0852, 32		319-1915, 75, 77, 147, 149, 151, 157				320-1472-09, 143, 145	
308-0853, 133		319-1916, 75					
308-0912, 32							
308-0913-01, 29, 31							

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
320-1472-10, 143, 145		320-1906-19, 149		320-1986-02, 153		323-1411-01, 119	
320-1472-11, 143, 145		320-1906-20, 149		320-1986-03, 153		323-1444, 105	
320-1472-12, 145		320-1906-21, 149		320-1986-07, 153		323-1445, 47, 105	
320-1473-07, 143, 145		320-1959-01, 151		320-1986-08, 153		323-1491, 47, 105	
320-1473-08, 143, 145		320-1959-02, 151		320-1990-01, 151		323-1492, 13, 47, 105, 106	
320-1473-09, 143, 145		320-1959-03, 151		320-1990-02, 151		323-1493, 105, 106	
320-1473-10, 143, 145		320-1959-04, 151		320-1991-01, 151		323-1494, 47	
320-1492-09, 143, 145		320-1960-01, 151		320-1991-02, 151		323-1500, 47	
320-1492-10, 143, 145		320-1960-02, 151		320-1992-01, 151		323-1502, 47	
320-1492-11, 143, 145		320-1960-03, 151		320-1992-02, 151		323-1503, 105, 106	
320-1492-12, 145		320-1960-04, 151		321-0094, 99		323-1504, 47	
320-1493-07, 143, 145		320-1960-05, 151		321-0231, 99		323-1540, 105	
320-1493-08, 143, 145		320-1960-06, 151		321-0270, 99		323-1546, 106	
320-1493-09, 143, 145		320-1960-07, 151		321-0307-03, 99		323-1548, 13, 106	
320-1493-10, 143, 145		320-1960-08, 151		321-0307-06, 99		323-1549, 13	
320-1653, 32		320-1960-09, 151		321-0307-07, 99, 105		323-1580, 105	
320-1654, 32		320-1963-01, 151		321-0325, 105		323-1581, 105	
320-1688-01, 127		320-1963-02, 151		321-0327-01, 135		323-1591, 106	
320-1688-02, 127		320-1963-03, 151		321-0339, 105		323-1605-02, 105	
320-1727-03, 155, 157		320-1963-04, 151		322-0017, 103		323-1605-03, 105	
320-1727-06, 155, 157		320-1963-05, 151		322-0359-02, 103		323-1614-01, 105	
320-1728-02, 155, 157		320-1963-06, 151		322-0360-02, 103		323-1615, 105	
320-1728-03, 155, 157		320-1964-01, 151		322-0361, 103		323-1623, 105	
320-1728-05, 155, 157		320-1964-02, 151		322-0363, 101		323-1624, 105	
320-1728-06, 155, 157		320-1964-03, 151		322-0369-02, 32, 103		323-1637, 105	
320-1729-03, 155, 157		320-1964-04, 151		322-0384-09, 115		323-1643-01, 105	
320-1729-06, 155, 157		320-1964-05, 151		322-0394, 133		323-1644-01, 137	
320-1730-03, 155, 157		320-1964-06, 151		322-0403-02, 32		323-1644-02, 137	
320-1730-04, 155, 157		320-1964-07, 151		322-0431-03, 116		323-1644-03, 141	
320-1730-07, 155, 157		320-1964-08, 151		322-0431-04, 119		323-1647, 137	
320-1730-08, 155, 157		320-1970-01, 151		322-0431-07, 38		323-1648, 105, 137, 141	
320-1747-15, 155, 159		320-1970-02, 151		322-0431-08, 120		323-1652, 47, 105	
320-1747-18, 155, 159		320-1970-03, 151		322-0431-09, 114		323-1666, 105	
320-1748-13, 155, 159		320-1970-04, 151		323-0804, 115		323-1667, 105	
320-1748-14, 155, 159		320-1970-05, 151		323-1199, 112		323-1708, 37, 38, 39, 105, 106	
320-1749-13, 155, 159		320-1970-06, 151		323-1200, 106, 112		323-1709, 37, 38, 39, 105, 106	
320-1749-14, 155, 159		320-1977-01, 153		323-1291, 112		323-1718, 47, 105	
320-1755-13, 155, 157		320-1977-03, 153		323-1292, 112		323-1765, 37, 38, 39, 105, 106	
320-1755-14, 155, 157		320-1978-01, 153		323-1302, 99		325-0011, 126	
320-1755-15, 155, 157		320-1978-03, 153		323-1304, 106		330-0004, 40	
320-1755-16, 155, 157		320-1981-01, 153		323-1306, 106		330-0005, 40	
320-1906-17, 149		320-1981-03, 153		323-1308, 99			
320-1906-18, 149		320-1986-01, 153		323-1410-03, 120			

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>
330-0141-03, 91		332-3496, 105		338-2479, 124		399-0123, 31	
330-0141-04, 91		333-0133, 122		338-2491, 137		399-0124, 31	
330-0142, 91		333-0151, 107		338-2508, 97		402-0070, 57, 59, 87	
331-0010, 43		333-0407-02, 33		338-2538, 61		402-0354, 114, 115, 119, 124, 125	
331-0027, 32, 40, 43		333-0407-04, 33		338-2590, 138		402-0508, 81, 85, 89	
331-0042, 32, 47		333-0407-05, 33		338-2592-01, 105		402-0527, 99	
331-0531-01, 43		333-0438-03, 91		338-2604, 105		402-0610, 15, 27, 29, 31	
331-0531-02, 43		333-0438-04, 91		338-2796, 137		402-0704, 69	
331-0532, 43		333-0438-05, 91		338-2875, 112		402-0716, 69	
331-0533, 43		333-0438-06, 91		338-2948, 106		402-0729, 81, 85, 89	
331-0554, 47		333-0468, 43		338-3019, 141		403-2904, 67	
331-0555, 47		333-0512-01, 43		338-3033, 113		403-3066, 67	
332-0052, 99		333-0512-02, 43		338-3034, 120		403-3338, 95	
332-0604, 105, 106		333-0583-01, 41		338-3035-02, 38		403-3814, 66	
332-0607, 99		333-0583-02, 41		338-3232, 114		403-3839, 67	
332-0699, 61		333-0583-03, 41		338-3234, 114		403-4114, 69	
332-0970, 61		333-0583-04, 41		338-3252, 99		403-4115, 95	
332-1043, 105, 106, 111		333-0583-05, 41		338-3285, 105		403-4115-01, 17, 19	
332-1281, 11		333-0633-01, 45		338-3335-03, 47		403-4125, 69	
332-1292, 11		333-0633-02, 45		338-3337, 137		403-4143, 69	
332-1468, 47		334-0116, 130		338-3343, 106		405-3980, 71	
332-1469, 47		335-0161, 107		338-3348, 95		405-4104, 71	
332-1473, 67, 69		335-0173, 108		338-3359, 137		405-4106, 71	
332-2001, 77, 145, 149, 151, 157		337-0049, 99		338-3366, 116		405-4107, 71	
332-2315, 138		337-0090, 69		338-3384, 47		405-4108, 71	
332-2420, 114		337-0090-01, 89		338-3392, 105		405-4109, 71	
332-2605, 32		337-2402, 27, 29, 31		338-3594, 37, 38, 39		405-4110, 71	
332-2634, 11, 13, 15, 45, 79, 83, 87		337-2868, 77		338-3759, 106		405-4111, 71	
332-2723, 99		338-1765-03, 106		338-3760, 105		405-4112, 71	
332-2744-02, 77		338-1904, 117		338-3763-02, 38		405-4113, 71	
332-2744-07, 145, 149, 151, 153, 155, 157		338-1936, 124		350-1222, 111		405-4114, 71	
332-2879-07, 119		338-1980, 141		353-0094-01, 106		405-4114-01, 71	
332-3007, 137		338-2123, 115		355-0189, 101		405-4114-02, 71	
332-3009, 93		338-2172, 138		357-0030, 38, 47, 106, 138		405-4115, 71	
332-3021, 97		338-2278, 99		357-0093, 93		405-4117, 71	
332-3023, 91		338-2347, 119		357-0114, 108, 109		405-4118-01, 71	
332-3024-14, 91		338-2368, 125		359-0051, 106		405-5198, 71	
332-3096-01, 105		338-2382, 32		370-4003, 20		406-0332, 99	
332-3196, 95		338-2397, 31		370-4036-01, 65		406-0333, 99	
332-3338, 108, 109		338-2442, 29, 31		370-4040, 43, 45		406-0334, 99	
332-3440, 47		338-2446, 40		399-0117, 31		406-0626, 71	
		338-2447, 121		399-0121, 31		406-0639, 71	
		338-2455, 134		399-0122, 31			

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>
415-0565-05, 29, 31		502-1065-05, 21		505-0100, 11, 13, 15, 45		517-0138-02, 47	
415-0566-05, 27, 29, 31		502-1226, 20		505-0120, 27, 29, 31		517-0245, 71	
415-0592, 31		502-1257, 45		505-0129, 41, 43		517-0301, 103	
415-0592-01, 29, 31		502-1259, 45		505-0130, 53, 57, 59		517-0302, 101	
415-0648, 27		502-1260, 45		505-0131, 11, 15		518-0018, 93	
415-0649, 27		502-1261, 45		505-0151, 132		518-0548-08, 40	
415-0649-01, 27		502-1302, 20		505-0172, 27, 29, 31		518-0548-15, 37	
415-0650-01, 27		503-0183, 31		505-0185, 11, 13, 15		518-0548-20, 21, 57, 59	
415-0651-19, 27		503-0189, 11, 13, 15		505-0248, 29, 31		518-0548-24, 79, 83, 87	
415-0652, 27		503-0970, 16, 17, 18, 19		505-0395, 27		518-0548-29, 55	
415-0654, 27		503-1013, 11, 13, 15		505-0759, 49, 51		518-0601, 8	
415-0655, 27		503-1136, 45, 55		505-1379, 67, 69		518-0633, 49, 51, 53	
415-0656-21, 27		503-1379-02, 55, 57, 59		505-1380, 49, 51		520-0544, 71	
415-0657, 27		503-1414-01, 55		505-1395, 21		525-0304, 8	
415-0660, 27		503-1414-02, 57, 59		505-1503, 11, 15, 17		525-0305, 8	
416-0444, 62		503-1418, 57, 59		508-0001, 99		525-0306, 8	
416-0446, 62		503-1467-09, 55		508-0015, 11		525-0551-02, 8	
416-0619, 62		503-1503, 13, 16		508-0051, 99, 138		525-0551-03, 8	
416-0632, 62		503-1575, 34, 35, 36		508-0228, 91		525-0551-04, 8	
416-0850, 67, 69		503-1634, 57, 59		508-0239, 155		526-0008, 27, 111, 119, 126, 135	
416-0853, 67, 69		503-1634-01, 45		508-0292, 11, 13, 15		526-0018, 11, 13, 15, 41, 55, 99	
416-0975-01, 67, 69		503-1660-04, 31		508-0306, 93		526-0022, 61	
425-1799, 93		503-1675, 16, 17, 18, 19		508-1057, 79, 83, 87		526-0026, 55, 57	
501-0084, 27, 29, 31, 67, 69		503-1779, 41, 43		508-1086, 93		526-0029, 23, 51, 57, 59, 77, 145, 149, 151, 153, 155, 157	
501-0084-01, 27		503-1816, 53		508-1090, 79, 83, 87		526-0030, 21, 64, 69	
501-0216, 67, 69		503-1870-11, 16, 17, 18, 19		508-1092, 75, 77, 147, 149, 153, 157		526-0035, 95	
501-0247, 53		503-1870-14, 16, 17, 18, 19		508-1107, 77		526-0049, 103	
501-0537-47, 61		503-1872-01, 41, 43, 57, 59		508-1109, 81, 85, 89		526-0054, 53	
501-0548-01, 27, 29, 31		503-1872-04, 55, 57, 59		509-0065, 137		526-0066, 11, 13	
501-0551, 55		503-1872-05, 55, 57, 59		509-0266-03, 93		526-0108, 143, 145, 149	
501-0551-01, 57, 59		504-0005, 51		509-0272-02, 61		526-0112, 16, 17, 18, 19	
502-0034, 20		504-0011, 11, 13, 15		510-0168, 93		526-0113, 107	
502-0053, 55, 57, 59		504-0028, 55, 57, 59		511-0092, 64		526-0115, 55, 89, 115, 119, 124, 125, 143, 145, 149	
502-0067, 20		504-0064, 20		511-0156, 65		526-0128, 89	
502-0153, 55		505-0003, 45, 49, 51		515-0300-01, 93		526-0141, 53	
502-0827, 45		505-0019, 11, 13, 15, 45		515-0300-06, 93		526-0198, 67	
502-0942, 31		505-0021, 11, 13, 45		517-0021, 91		526-0219, 69, 77, 147, 149, 159	
502-0943, 31		505-0022, 45		517-0131, 79, 83, 89, 101, 103, 111		526-0346, 49	
502-0971, 41, 43		505-0039, 27		517-0135, 81, 85, 89			
502-1043-05, 21		505-0050, 11, 13, 15, 27, 29, 31		517-0136, 81, 85			
502-1045-02, 21		505-0055, 24, 25		517-0137, 103, 132			
502-1054-07, 63		505-0098, 20, 27					
502-1062-11, 21							

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
526-0353, 65		800-0093, 95		812-0063, 113		821-0018, 22, 55, 77, 149	
526-0399-16, 79, 83		800-0094, 65, 77, 147, 149		812-0067, 15		821-0020, 49, 51	
526-0399-19, 53		800-0130, 22, 41, 43, 45		812-0070, 107		821-0028, 49, 51	
526-0399-64, 66		800-0132, 18, 19, 45		812-0075, 32		821-0029, 16, 18, 21, 51, 55, 71	
526-0409, 103		800-0135, 43		812-0079, 40, 137		821-0033, 35, 36	
526-0435, 95		800-0138, 67, 69		812-0081, 114, 115, 119		821-2034, 153	
526-2060, 93		800-0202, 64, 65		812-0082, 121, 137		821-2035, 75	
526-2080, 93		800-0203, 65		812-0084, 111, 120		821-5000-05, 35, 36, 99	
526-2100, 79, 83, 89, 93		800-0209, 49		812-0085, 137, 138		821-5002-03, 23, 45, 49, 53, 60, 73, 75, 79, 81, 83, 85, 87, 145, 157	
526-2120, 89, 93, 95, 137, 153		800-0218, 20, 21		812-0157, 143, 145, 149		821-5002-04, 29, 57, 59, 75, 147	
526-2140, 93, 153		800-0307, 95		813-0100, 43, 119, 138, 139		821-5003-01, 71	
625-2141-01, 29, 31, 32		800-0579, 95		813-0103, 43, 60, 61, 126, 134		821-5003-02, 87	
720-1146, 95		800-2004, 93		813-0105, 40		821-5003-03, 27, 29, 31, 57, 59, 71, 79, 81, 83, 85, 87	
720-1148, 95		800-2008, 91		813-0107, 135		821-5003-05, 49	
725-1103, 93		800-2042, 93		813-0108, 111		821-5004-01, 53	
775-0049, 97		800-2045, 93		815-0236, 24, 25, 71		821-5004-02, 17, 19, 45, 53, 57, 59, 71, 79, 83	
800-0006, 41, 123		800-2059, 64		815-0350, 32		821-5004-03, 59, 89	
800-0024, 99, 108		800-2061, 93		815-0385, 32, 103, 122		821-6001-02, 95, 97	
800-0026, 67		800-2066, 93		815-0388, 99, 116, 121		821-6001-03, 60	
800-0027, 69		800-2069, 93		815-0447, 47		821-6002-03, 60, 75, 79, 81, 83, 85, 89, 153	
800-0028, 53		800-2084, 95		815-0538, 105, 106		821-6003-02, 79, 81, 83, 85, 87	
800-0031, 143, 145, 149		800-2085, 87, 89		815-0539, 45		821-6004-01, 79, 83, 87, 89	
800-0034, 107		800-2087, 93		815-0544, 111, 112, 117		822-1050, 61	
800-0047, 77		800-2088, 137, 153		815-0607, 71		822-3047, 91	
800-0048, 11, 15, 67, 69, 145, 149, 151, 153, 157		800-2090, 95		815-0761, 97		822-3075, 91	
800-0049, 49		800-2091, 89, 93		815-0825, 97		850-0025, 137	
800-0050, 49, 51, 53, 55, 57, 59, 64, 65, 77, 145, 149, 155, 157		800-2111, 79, 83, 87		815-0836, 25		850-0030, 103, 111, 139	
800-0051, 69, 77, 145, 149, 151, 157		800-2114, 79		815-0875-02, 101		850-0040, 41, 123, 143, 145, 149	
800-0052, 49, 53, 57, 59, 65, 145, 149, 151, 157		800-2116, 153		815-0901-06, 99		850-0045, 89, 143, 145, 149	
800-0053, 51, 69		800-2242, 95		815-0905-06, 124, 125		850-0050, 11, 13, 15, 21, 49, 51, 53, 55, 57, 59, 65, 69, 77, 145, 149, 151, 153, 155, 157	
800-0054, 89		800-2244, 95		816-0098, 53, 71		850-0055, 64, 65, 95	
800-0056, 21		800-2247, 95		818-0231-02, 71		850-0060, 62, 69, 77, 95, 147, 149, 159	
800-0059, 64		800-3017-18, 97		821-0004, 99			
800-0061, 55, 57, 59		800-3017-39, 93, 95		821-0005, 110			
800-0062, 11, 13, 15		800-3017-53, 66		821-0009, 75, 157			
800-0073, 95		800-3017-55, 95		821-0010, 11, 13, 25, 43, 51, 77, 143, 149, 155, 159			
800-0090, 62		800-3017-56, 93		821-0014, 57, 59, 87, 99			
800-0091, 69		801-0048, 11, 13, 15		821-0015, 55			
800-0092, 159		801-0119, 16, 18		821-0016, 22, 55, 137			
		801-0124, 17, 19		821-0017, 114			
		805-0032, 95					
		809-0036, 11					

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
850-0065, 20, 21		856-0002, 32		870-0048, 115, 119, 124, 125		870-0504, 75, 151	
850-0070, 16, 17, 18, 19, 22, 41, 43, 45, 67, 69		856-0006, 11, 13, 79, 83, 87		870-0053, 139		870-0517-01, 112	
850-0086, 95		856-0008, 67, 69, 89, 99, 108, 141		870-0131, 27, 40, 45, 60, 99, 110, 119, 126, 134, 135, 138		870-0517-02, 112	
850-0103, 49		856-0010, 11, 13, 15, 69, 77, 89, 147, 149, 153, 157		870-0183, 15, 103, 107, 122		870-0547, 69	
850-0105, 65		856-0013, 62		870-0196, 11		870-0550-05, 79, 83, 89	
850-0114-54, 97		860-0003, 69		870-0212, 15, 22, 25, 27, 29, 31, 43, 55, 67, 69, 145, 149, 157		870-0550-07, 49, 53, 69, 71, 87	
850-0114-55, 93, 95		860-0006, 107		870-0221, 114, 115, 119, 124, 125, 137		870-0550-09, 17, 19, 45, 55, 57, 59, 71, 89	
850-0114-56, 93, 95		860-0008, 32		870-0235, 71		870-1221, 120	
850-2003, 91		860-2005, 91		870-0257, 22, 23, 35, 36, 49, 51, 67, 71, 79, 81, 83, 85, 107, 108, 114, 137		870-2054, 79, 83, 89, 153	
850-2004, 91		860-2006, 64, 91, 93		870-0281, 16, 18, 21, 71		870-2055, 79, 81, 83, 85, 87	
850-2005, 64, 91, 93, 95		860-2008, 64		870-0320, 35, 36		870-2056, 64, 89	
850-2006, 89, 93		860-2010, 93, 153		870-0437, 35, 36		870-2064-02, 93	
850-2008, 64, 93		862-0001, 41, 123		870-0452, 65		870-2161, 64	
850-2010, 89, 93, 97, 153		862-0003, 77, 145, 149, 151, 157		870-0458, 32		871-0010, 103	
850-2012, 79, 83, 87, 93, 153		862-0005, 77, 147, 149		870-0494, 75, 77, 145, 149, 157		871-0015, 99	
851-0039, 64		862-0007, 67				878-0367, 77	
853-0005, 114, 115, 119, 138		862-0016, 69, 159				895-0296, 49	
853-0008, 99, 103, 124, 125		862-0042, 95				895-0308, 71	
854-0006, 107		864-0011, 27				898-1254-25, 91	



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

Onan is a registered trademark of Onan Corporation
Cummins is a registered trademark of Cummins Engine Company