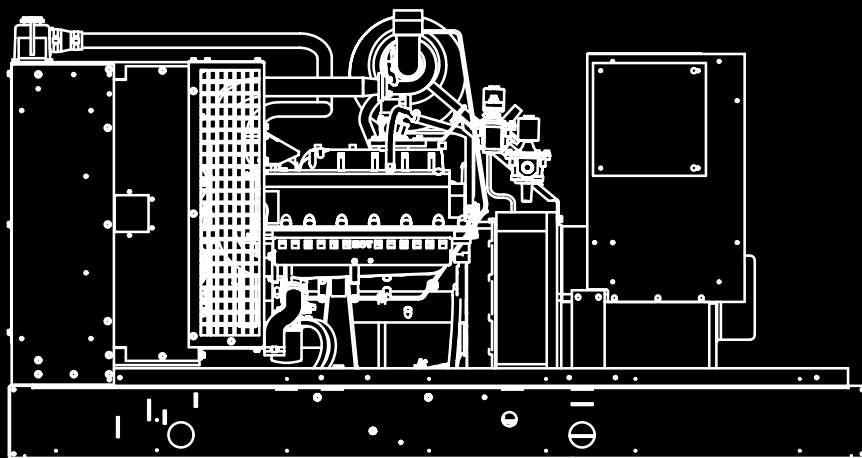


# Parts Catalog

**Models**

**GGHG (SPEC A)**

**GGHH (SPEC A)**



## MODEL IDENTIFICATION

This catalog covers models produced under the Cummins®/Onan® and Cummins Power Generation brand names.

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Cummins Power Generation 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 Cummins Power Generation 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 Cummins Power Generation 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 Cummins Power Generation Generator Models DFEG, DFEH, DFEJ and DFEK 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 Cummins Power Generation 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

| Cummins Power Generation<br>Generator Model | Cummins Engine Model |
|---|----------------------|
| DFEG, DFEH, DFEJ, DFEK (50 Hertz)           | QSX15–G8             |
| DFEG, DFEH, DFEJ, DFEK (60 Hertz)           | QSX15–G9             |

## Generator Set Data Table

| Model and<br>Specification | Electrical Data |       |       |      |       | Battery<br>Voltage |
|----------------------------|-----------------|-------|-------|------|-------|--------------------|
|                            | Watts           | Volts | Hertz | Wire | Phase |                    |
| 310DFEG/*                  | 310,000         | #     | 50    | 12   | 3     | 24VDC              |
| 350DFEG/*                  | 350,000         | #     | 60    | 12   | 3     | 24VDC              |
| 352DFEH/*                  | 352,000         | #     | 50    | 12   | 3     | 24VDC              |
| 400DFEH/*                  | 400,000         | #     | 60    | 12   | 3     | 24VDC              |
| 400DFEJ/*                  | 400,000         | #     | 50    | 12   | 3     | 24VDC              |
| 450DFEJ/*                  | 450,000         | #     | 60    | 12   | 3     | 24VDC              |
| 440DFEK/*                  | 440,000         | #     | 50    | 12   | 3     | 24VDC              |
| 500DFEK/*                  | 500,000         | #     | 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.

# – Broad range reconnectible

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## Abbreviations

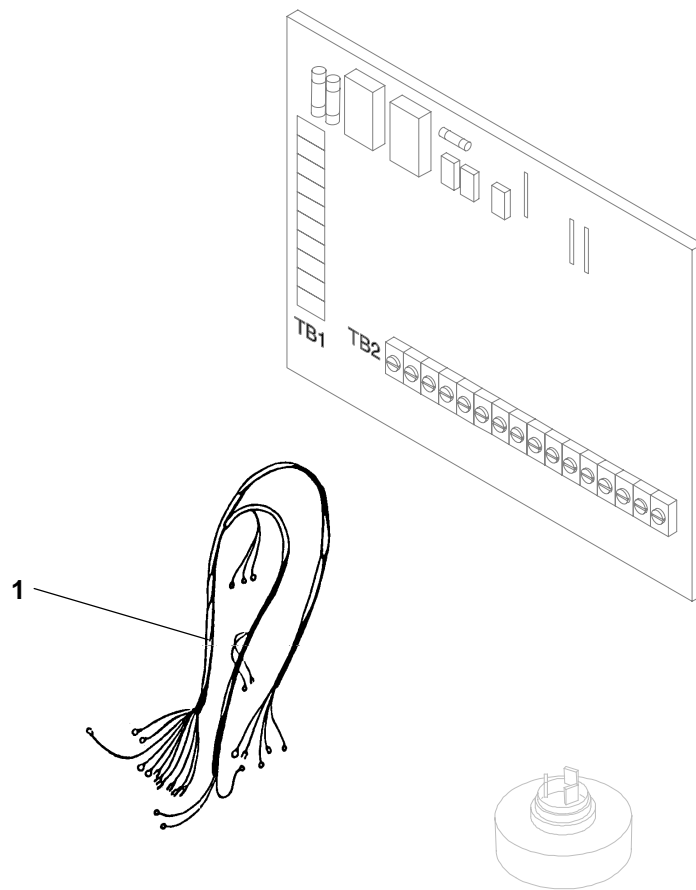
Some of the following abbreviations may be used throughout this Parts Catalog:

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

## Paint and Thread Sealant

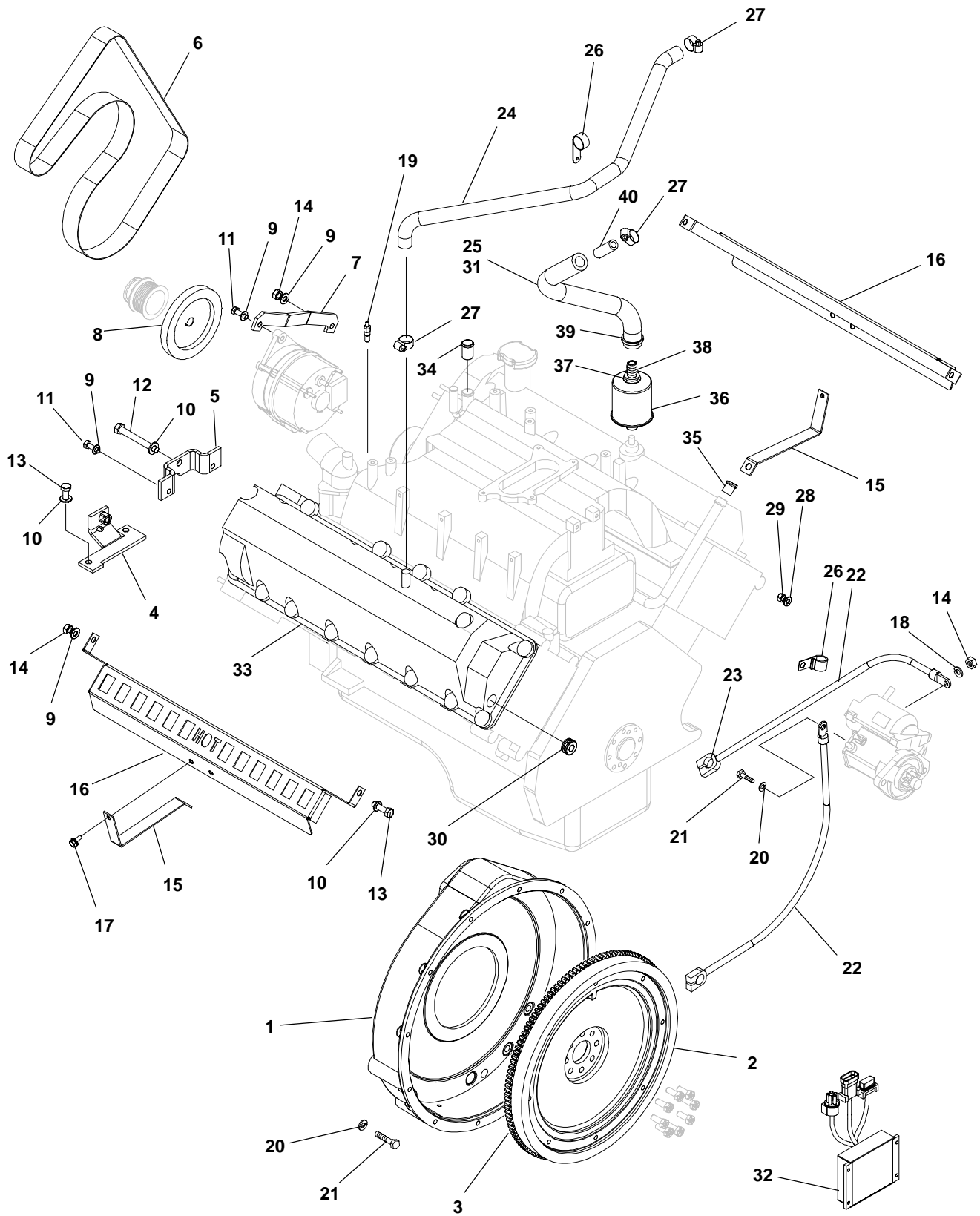
| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                 | REF NO.  | PART NO. | QTY USED | PART DESCRIPTION            |
|---------|----------|----------|----------------------------------|----------|----------|----------|-----------------------------|
|         |          |          | Onan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

## Fuel Alarm



| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION | REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION |
|------------|-------------|-------------|---------------------|------------|-------------|-------------|---------------------|
| 1          |             |             | Harness, Fuel Alarm |            |             |             |                     |
|            | 338-3740-01 | 1           | Single Fuel         |            |             |             |                     |
|            | 338-4037    | 1           | Dual Fuel           |            |             |             |                     |

## External Engine Parts

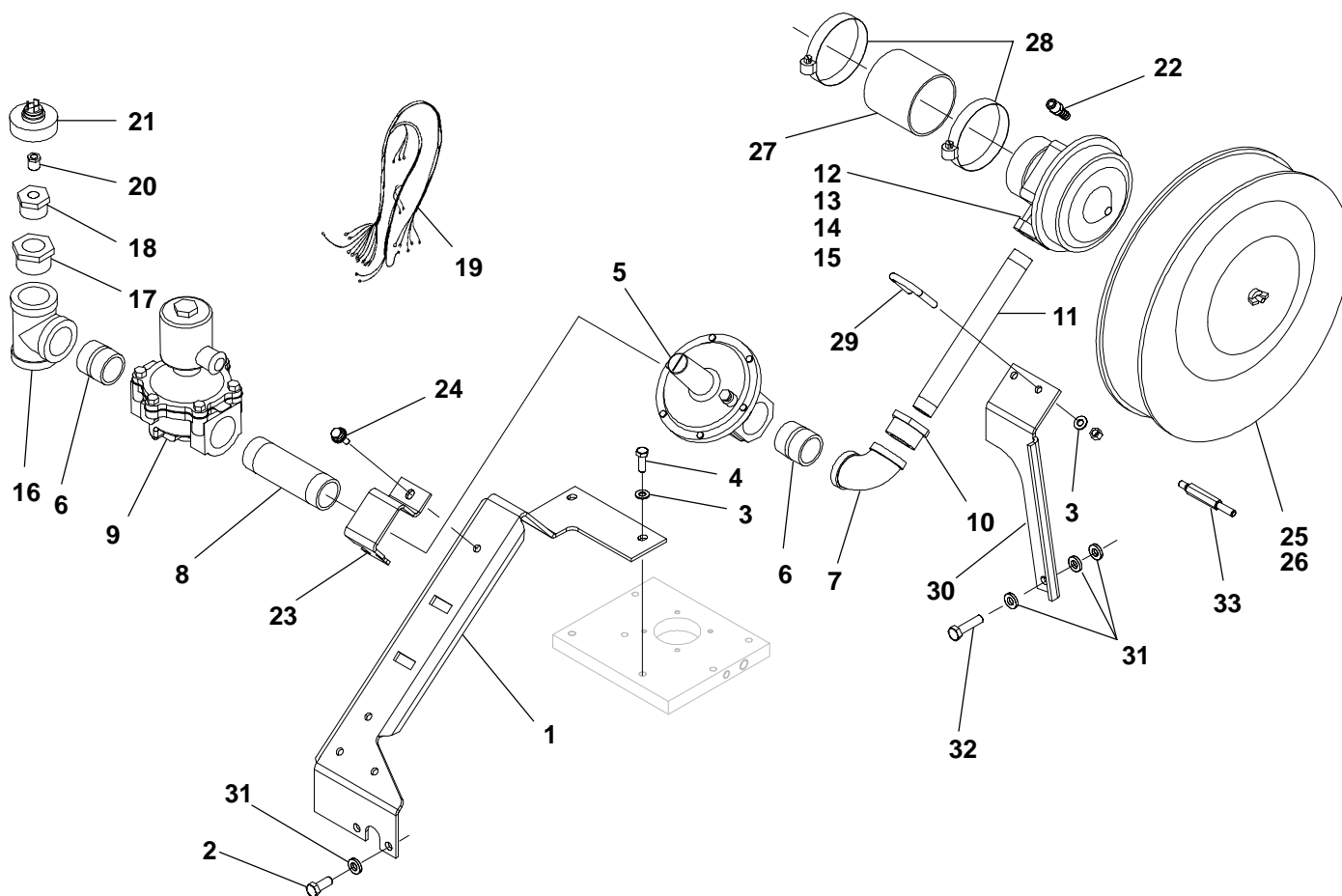




## External Engine Parts

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                       | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION  |
|---------|-------------|----------|--|---------|-------------|----------|---|
| 1       | 231-0394-02 | 1        | Adapter, Generator                     | 23      | 416-1019    | 1        | Boot, Battery – Red   |
| 2       | 104-1971    | 1        | Flywheel (Includes Ring Gear)          | 24      | 503-2223    | 1        | Hose, Breather  |
| 3       | 104-1949    | 1        | Gear, Ring                             | 25      | 503-2233    | 1        | Hose, Crank Case – Vent   |
| 4       | 191-2322-02 | 1        | Bracket, Alternator – Rear             | 26      | 332-2634    | 2        | Clamp, J  |
| 5       | 191-2280-02 | 1        | Bracket, Alternator – Front            | 27      | 503-0183    | 3        | Clamp, Hose   |
| 6       | 511-0161-18 | 1        | Belt, Serpentine – 8 Groove            | 28      | 526-2080    | 1        | Washer (M6)   |
| 7       | 191-2281-02 | 1        | Bracket, Alternator                    | 29      | 862-0026-54 | 1        | Nut (M6)  |
| 8       | 191-1981    | 1        | Fan, Alternator                        | 30      | 508-1156    | 1        | Grommet   |
| 9       | 526-2100    | 6        | Washer, Flat (M8)                      | 31      | 503-2235    | 1        | Insulation, Hose  |
| 10      | 526-2120    | 5        | Washer, Flat (M10)                     | 32      | 166-0871-01 | 1        | Module, Ignition  |
| 11      | 800-2058    | 3        | Screw, Cap – Hex Head (M8 x 1.25 x 25) | 33      | 110-3938    | 1        | Cover, Rocker   |
| 12      | 800-2097    | 1        | Screw, Cap – Hex Head (M10 x 1.5 x 80) | 34      | 132-0412    | 1        | Cap, Heater Tube (3/4")   |
| 13      | 800-2086    | 4        | Screw, Cap – Hex Head (M10 x 1.5 x 35) | 35      | 132-0331    | 1        | Cap, Heater Tube (5/8")   |
| 14      | 860-2008    | 5        | Nut, Hex (M8 x 1.25)                   | 36      | 123-2177-05 | 1        | Separator, Oil  |
| 15      | 154-3107-02 | 2        | Strap, Guard – Manifold                | 37      | 508-1161    | 1        | Grommet   |
| 16      | 154-3100-02 | 2        | Guard, Manifold                        | 38      | 505-1601-02 | 1        | Fitting, Hose   |
| 17      | 821-6002-02 | 2        | Screw, Hex Head (M6 x 1.0 x 12)        | 39      | 332-0941    | 1        | Tie, Cable  |
| 18      | 850-2008    | 2        | Washer, Lock – Split (M8)              | 40      | 503-2239    | 1        | Adapter, Hose   |
| 19      | 193-0318    | 1        | Sender, Water Temperature              | 41      | 130-5258    | 1        | Thermostat – 185°F (Ford Part Number YC22-8575-BA) (Not Illustrated)            |
| 20      | 850-2010    | 7        | Washer, Lock – Split (M10)             | 42      |             | 1        | Thermostat – 192°F (Ford Part Number YC22-8575-AA) (Optional) (Not Illustrated) |
| 21      | 800-2088    | 7        | Screw, Cap – Hex Head (M10 x 1.5 x 35) | 43      | 167-1639    | A/R      | Plug, Spark (Ford Part Number AGSF-22-FM1) (.035 Gap) (Not Illustrated)         |
| 22      | 416-0549    | 2        | Cable, Battery                         |         |             |          |   |

## Fuel System Natural Gas

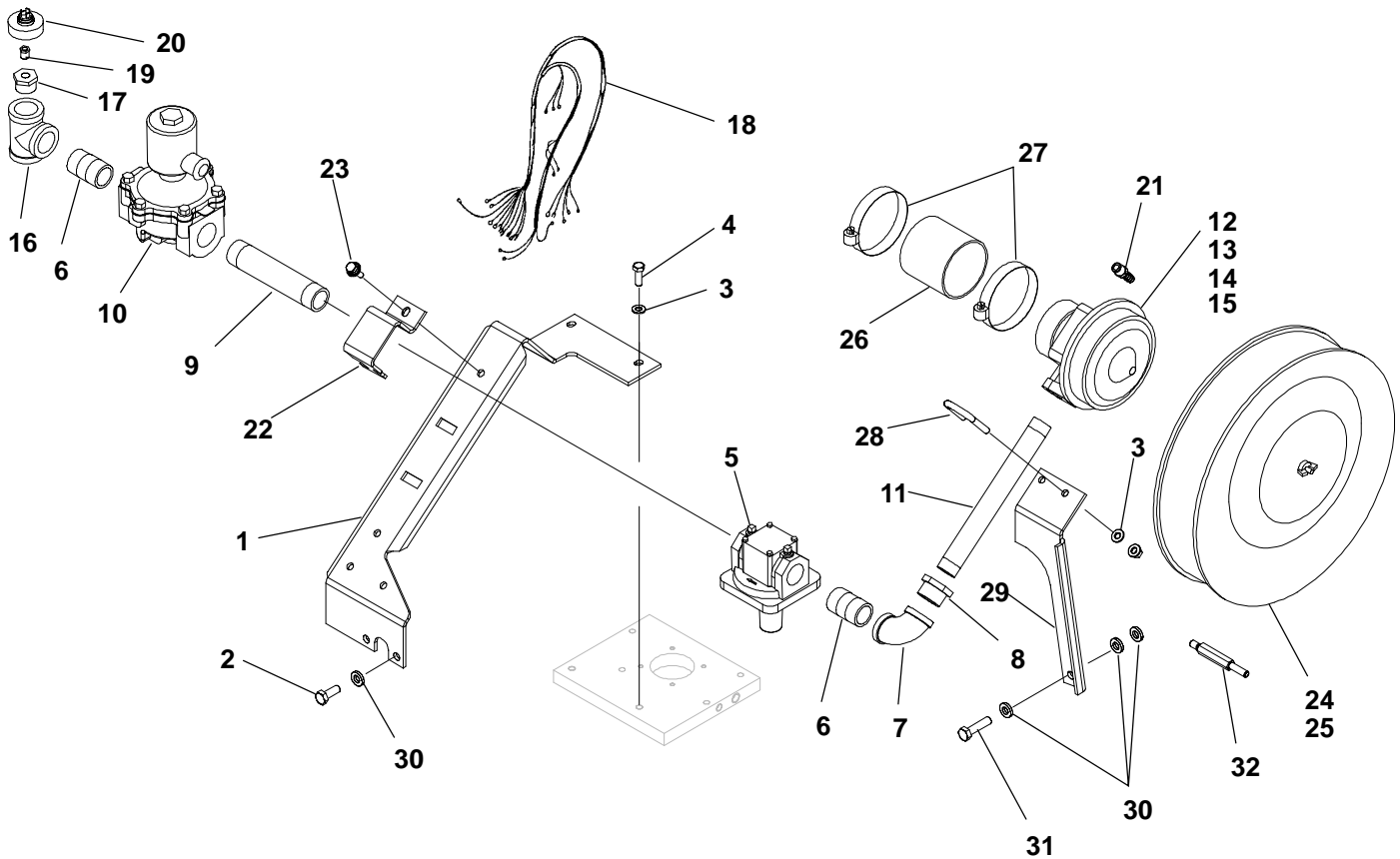


| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                       | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                          |
|---------|-------------|----------|--|---------|-------------|----------|---|
| 1       | 148-1164-02 | 1        | Bracket, Fuel System Mounting          | 18      | 505-0802    | 1        | # Bushing, Reducer (1.00 x 1/4)           |
| 2       | 800-2086    | 2        | Screw, Cap – Hex Head (M10 x 1.5 x 25) | 19      | 338-3740-01 | 1        | # Harness, Fuel Alarm                     |
| 3       | 526-2100    | 4        | Washer, Flat (M8)                      | 20      | 505-0007    | 1        | # Bushing, Reducer (1/4 x 1/8)            |
| 4       | 800-3017-20 | 2        | Screw, Cap – Hex Head (M8 x 1.25 x 25) | 21      | 309-0669    | 1        | # Switch, Low Pressure                    |
| 5       | 148-1015    | 1        | Regulator, Natural Gas                 | 22      | 502-1218    | 1        | Connector, Hose                           |
| 6       | 505-0177    | 1        | Nipple, Pipe (1-1/4 x 1.63)            | 23      | 148-1089    | 1        | Clamp, Fuel System (1.25)                 |
|         | 505-0177    | 1        | Fuel Systems Without Pressure Switch   | 24      | 821-6003-03 | 1        | Screw, Hex Head (M8 x 1.25 x 20)          |
|         | 505-0177    | 2        | Fuel Systems With Pressure Switch      | 25      | 140-3161    | 1        | Cleaner, Air (Includes Stud and Wing Nut) |
| 7       | 505-0042    | 1        | Elbow, Pipe                            | 26      | 140-3151    | 1        | Element, Replacement – Air Cleaner        |
| 8       | 505-0157    | 1        | Nipple, Pipe (1-1/4 x 5.00)            | 27      | 148-1181    | 1        | Hose, Mixer Adapter                       |
| 9       | 307-2885    | 1        | Valve, Solenoid                        | 28      | 503-1870-05 | 2        | Clamp, Hose                               |
| 10      | 505-0297    | 1        | Bushing, Reducer (1.25 x .75)          | 29      | 155-1256    | 1        | Clamp, Muffler (1.50")                    |
| 11      | 505-0268    | 1        | Nipple, Pipe (3/4 x 9.00)              | 30      | 148-1166-02 | 1        | Bracket, Fuel System – Support            |
| 12      | 148-1174    | 1        | Mixer (Includes Parts Marked *)        | 31      | 526-0174    | 5        | Washer, Flat                              |
| 13      | 148-1173-02 | 1        | * Adapter, Hose                        | 32      | 800-2089    | 1        | Screw, Cap – Hex Head (M10 x 1.5 x 40)    |
| 14      | 140-3246    | 1        | * G1-73 Gasket                         | 33      | 520-1030    | 1        | Stud – Air Cleaner                        |
| 15      | 145-0540    | 1        | * G1-21 Gasket                         |         |             |          |   |
| 16      | 505-0249    | 1        | # Tee, Pipe                            |         |             |          |   |
| 17      | 505-0023    | 1        | # Bushing, Reducer (1-1/4 x 1.00)      |         |             |          |   |

\* – Parts Included with 148-1174 Mixer

# – Parts Included with Fuel Systems With Pressure Switch

## Fuel System Propane Vapor Withdrawl

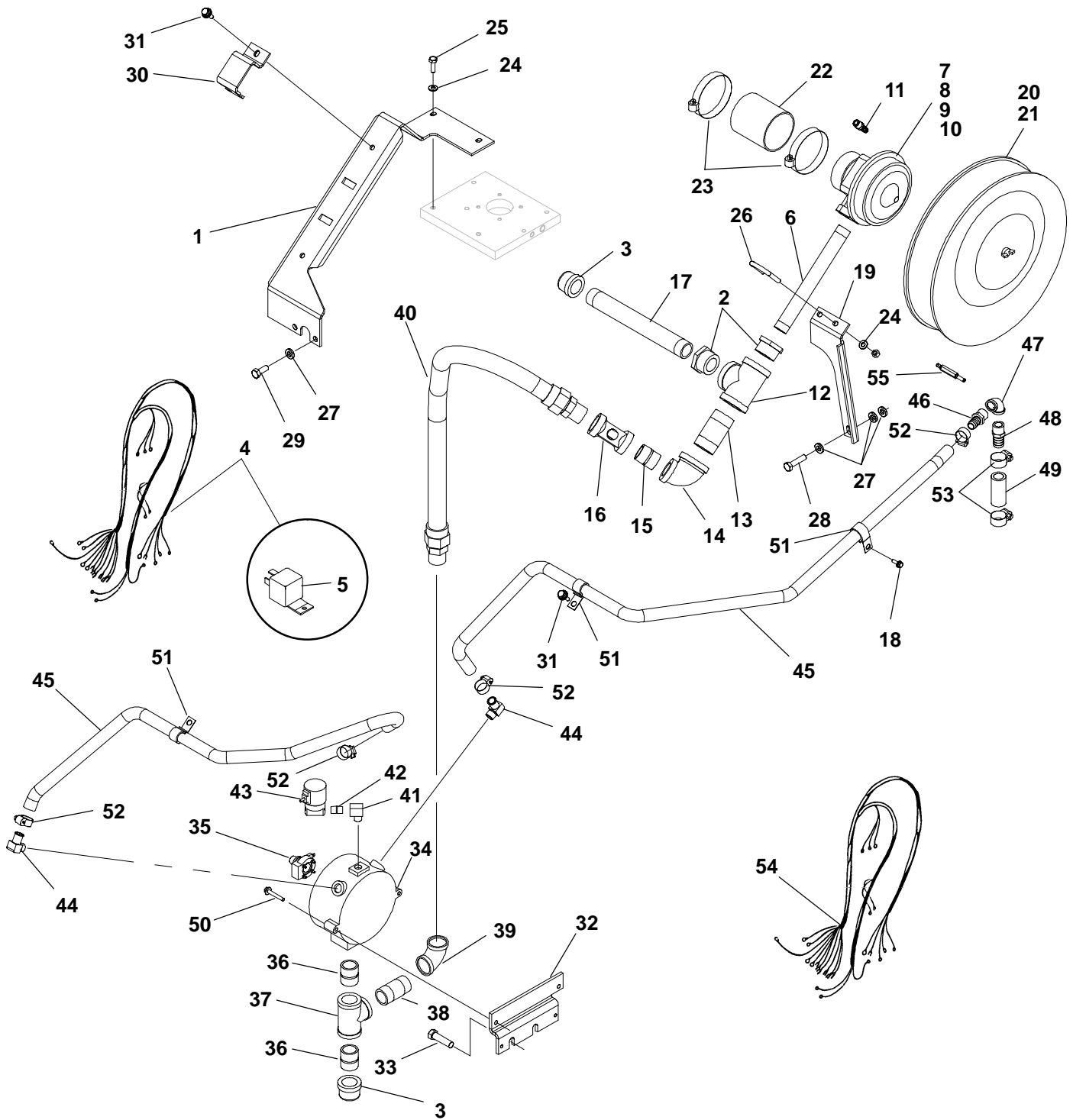


| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                       | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                          |
|---------|-------------|----------|--|---------|-------------|----------|---|
| 1       | 148-1164-02 | 1        | Bracket, Fuel System Mounting          | 18      | 338-3740-01 | 1        | # Harness, Fuel Alarm                     |
| 2       | 800-2086    | 2        | Screw, Cap – Hex Head (M10 x 1.5 x 25) | 19      | 505-0007    | 1        | # Bushing, Reducer (1/4 x 1/8)            |
| 3       | 526-2100    | 4        | Washer, Flat (M8)                      | 20      | 309-0669    | 1        | # Switch, Low Pressure                    |
| 4       | 800-3017-20 | 2        | Screw, Cap – Hex Head (M8 x 1.25 x 25) | 21      | 502-1218    | 1        | Connector, Hose                           |
| 5       | 148-0636    | 1        | Regulator, Propane Vapor               | 22      | 148-1089    | 1        | Clamp, Fuel System (1.25)                 |
| 6       | 505-0107    | 1        | Nipple, Pipe (1.00 x 2.00)             | 23      | 821-6003-03 | 1        | Screw, Hex Head (M8 x 1.25 x 20)          |
|         | 505-0107    | 2        | Fuel Systems Without Pressure Switch   | 24      | 140-3161    | 1        | Cleaner, Air (Includes Stud and Wing Nut) |
|         |             |          | Fuel Systems With Pressure Switch      | 25      | 140-3151    | 1        | Element, Replacement – Air Cleaner        |
| 7       | 505-0041    | 1        | Elbow, Pipe                            | 26      | 148-1181    | 1        | Hose, Mixer Adapter                       |
| 8       | 505-0129    | 1        | Bushing, Reducer (1.00 x .75)          | 27      | 503-1870-05 | 2        | Clamp, Hose                               |
| 9       | 505-0090    | 1        | Nipple, Pipe (1.00 x 6.00)             | 28      | 155-1256    | 1        | Clamp, Muffler (1.50")                    |
| 10      | 307-2884    | 1        | Valve, Solenoid                        | 29      | 148-1166-02 | 1        | Bracket, Fuel System – Support            |
| 11      | 505-0268    | 1        | Nipple, Pipe (3/4 x 9.00)              | 30      | 526-0174    | 5        | Washer, Flat                              |
| 12      | 148-1174    | 1        | Mixer (Includes Parts Marked *)        | 31      | 800-2089    | 1        | Screw, Cap – Hex Head (M10 x 1.5 x 40)    |
| 13      | 148-1173-02 | 1        | * Adapter, Hose                        | 32      | 520-1030    | 1        | Stud – Air Cleaner                        |
| 14      | 140-3246    | 1        | * G1-73 Gasket                         |         |             |          |   |
| 15      | 145-0540    | 1        | * G1-21 Gasket                         |         |             |          |   |
| 16      | 505-0304    | 1        | # Tee, Pipe                            |         |             |          |   |
| 17      | 505-0802    | 1        | # Bushing, Reducer (1.00 x 1/4)        |         |             |          |   |

\* – Parts Included with 148-1174 Mixer

# – Parts Included with Fuel Systems With Pressure Switch

# Fuel System Propane Liquid Withdrawl



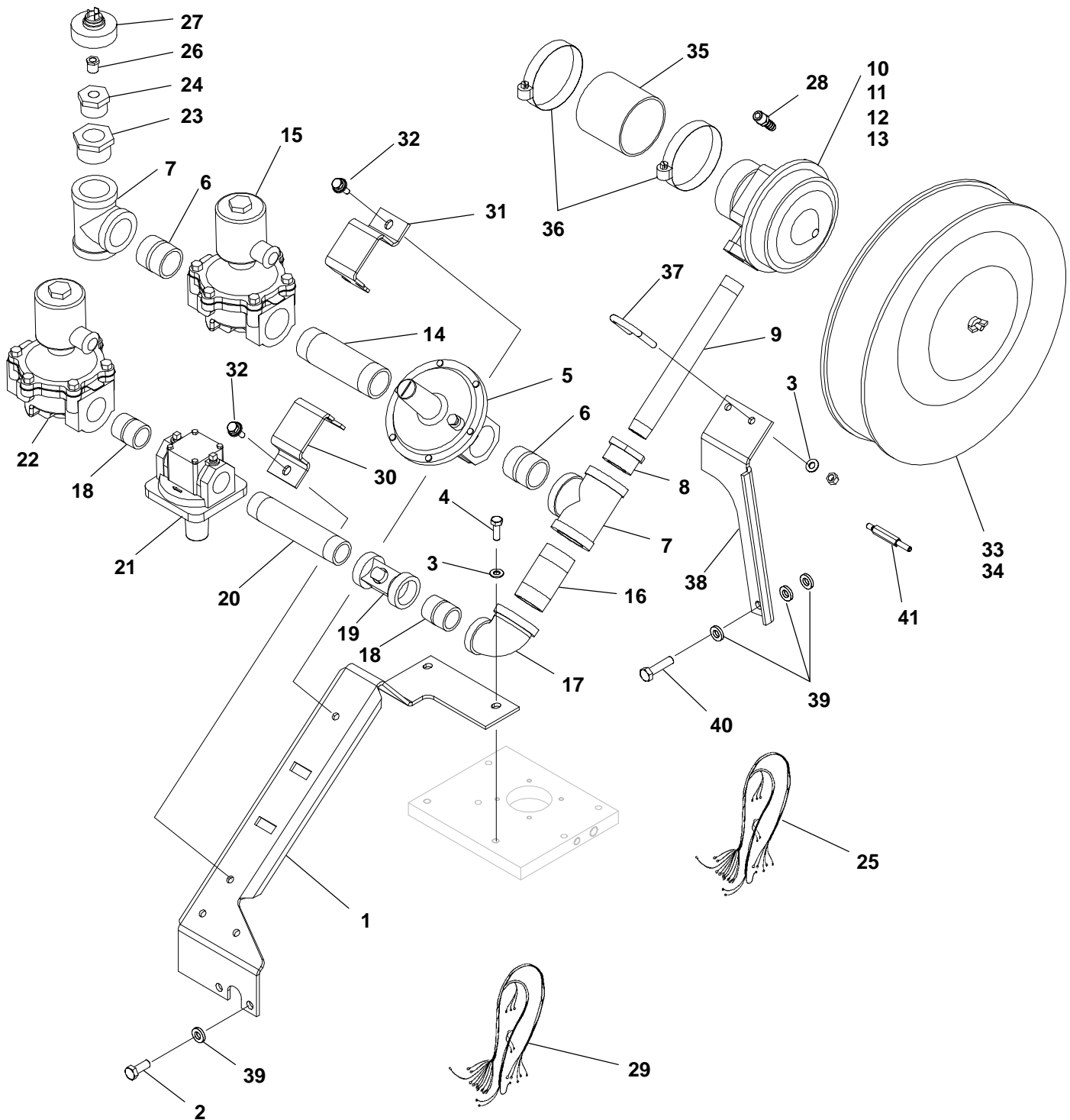
## Fuel System Propane Liquid Withdrawl

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                             | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION  |
|---------|-------------|----------|--|---------|-------------|----------|---|
| 1       | 148-1164-02 | 1        | Bracket, Fuel System Mounting                | 30      | 148-1090    | 1        | Clamp, Fuel System (1.00)   |
| 2       | 505-0297    | 2        | Reducer, Bushing – Pipe (1.25 x .75)         | 31      | 821-6003-03 | 2        | Screw, Hex Head (M8 x 1.25 x 20)  |
| 3       | 505-0479    | 2        | Cap, Pipe (1.00)                             | 32      | 148-1148-02 | 1        | Bracket, Converter  |
| 4       | 338-3816-01 | 1        | Harness, Wiring – Dual Fuel (Includes Relay) | 33      | 800-2115    | 2        | Screw, Cap – Hex Head (M12 x 1.75 x 45) (Genset Mounted Converter Only) |
| 5       | 307-2817-01 | 1        | Relay (12 Volt)                              | 34      | 148-0625    | 1        | Converter, Gas  |
| 6       | 505-0268    | 1        | Nipple, Pipe (3/4 x 9.00)                    | 35      | 148-1152    | 1        | Solenoid, Primer  |
| 7       | 148-1174    | 1        | Mixer (Includes Parts Marked *)              | 36      | 505-0004    | 2        | Nipple, Pipe (1 x 1.50)   |
| 8       | 148-1173-02 | 1        | * Adapter, Hose                              | 37      | 505-0304    | 1        | Tee, Pipe   |
| 9       | 140-3246    | 1        | * G1-73 Gasket                               | 38      | 505-0086    | 1        | Nipple, Pipe (1 x 2.50)   |
| 10      | 145-0540    | 1        | * G1-21 Gasket                               | 39      | 505-0041    | 1        | Elbow, Pipe   |
| 11      | 502-1218    | 1        | Connector, Hose                              | 40      | 501-0630    | 1        | Hose  |
| 12      | 505-0249    | 1        | Tee, Pipe                                    | 41      | 502-0054    | 1        | Elbow, Pipe – Street  |
| 13      | 505-0258    | 1        | Nipple, Pipe (1-1/4 x 3.00)                  | 42      | 505-0099    | 1        | Nipple, Pipe (1/4 x .88)  |
| 14      | 505-0473    | 1        | Elbow, Reducer – 90° (1 x 1.25)              | 43      | 307-0268-01 | 1        | Valve, Solenoid   |
| 15      | 505-0004    | 1        | Nipple, Pipe (1 x 1.50)                      | 44      | 502-0942    | 2        | Elbow, Hose – 90°   |
| 16      | 148-0626    | 1        | Valve, Load Adjusting                        | 45      | 503-1988    | –        | Hose – Bulk (Order by the Foot – 8 Feet Required)                       |
| 17      | 505-0181    | 1        | Nipple, Pipe (1 x 10.00)                     | 46      | 502-1006    | 1        | Connector, Hose (1/2 x 5/8)   |
| 18      | 821-6002-03 | 1        | Screw, Hex Head (M6 x 1 x 16)                | 47      | 505-0040    | 1        | Elbow, Pipe   |
| 19      | 148-1166-02 | 1        | Bracket, Fuel System – Support               | 48      | 502-0827    | 1        | Hose, Barb  |
| 20      | 140-3161    | 1        | Cleaner, Air (Includes Stud and Wing Nut)    | 49      | 503-0191    | –        | Hose – Bulk (Order by the Foot – 1 Foot Required)                       |
| 21      | 140-3151    | 1        | Element, Replacement – Air Cleaner           | 50      | 815-0924    | 2        | Screw, Hex Washer Head (M6 x 1 x 40)                                    |
| 22      | 148-1181    | 1        | Hose, Mixer Adapter                          | 51      | 332-2634    | 3        | Clamp, J  |
| 23      | 503-1870-05 | 2        | Clamp, Hose                                  | 52      | 503-0183    | 4        | Clamp, Hose   |
| 24      | 526-2100    | 4        | Washer, Flat (M8)                            | 53      | 503-1872-01 | 2        | Clamp, Hose   |
| 25      | 800-3017-20 | 2        | Screw, Cap – Hex Head (M8 x 1.25 x 25)       | 54      | 338-3654-01 | 1        | Harness, LPG  |
| 26      | 155-1256    | 1        | Clamp, Muffler (1.50")                       | 55      | 520-1030    | 1        | Stud – Air Cleaner  |
| 27      | 526-0174    | 5        | Washer, Flat                                 |         |             |          |   |
| 28      | 800-2089    | 1        | Screw, Cap – Hex Head (M10 x 1.5 x 40)       |         |             |          |   |
| 29      | 800-2086    | 2        | Screw, Cap – Hex Head (M10 x 1.5 x 25)       |         |             |          |   |

\* – Parts Included with 148-1174 Mixer

# Fuel System

## Natural Gas / Propane Vapor Withdrawl With Automatic Changeover



# Fuel System

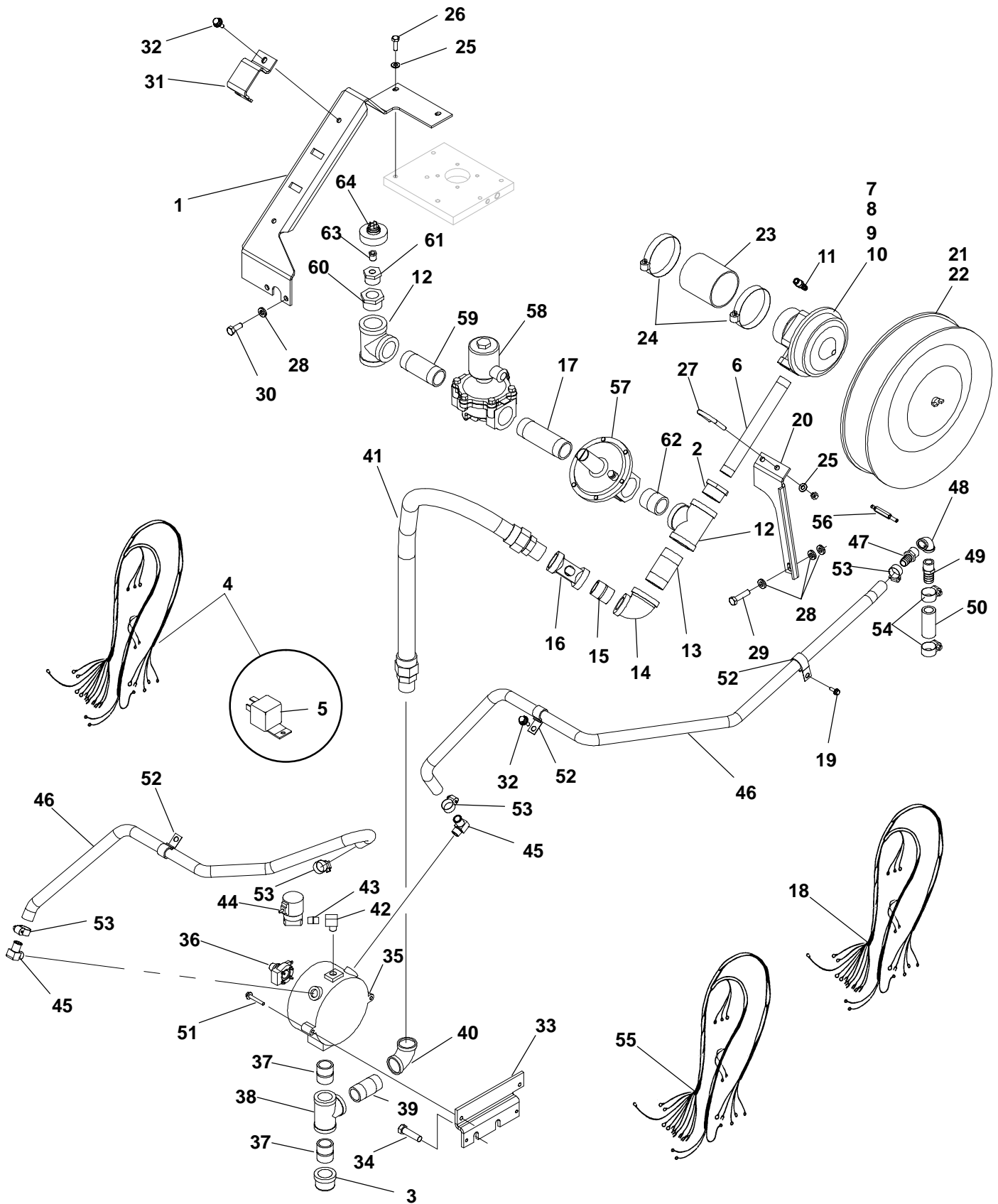
## Natural Gas / Propane Vapor Withdrawl With Automatic Changeover

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                       | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                          |
|---------|-------------|----------|--|---------|-------------|----------|---|
| 1       | 148-1164-02 | 1        | Bracket, Fuel System Mounting          | 24      | 505-0802    | 1        | Bushing, Reducer (1.00 x 1/4)             |
| 2       | 800-2086    | 2        | Screw, Cap – Hex Head (M10 x 1.5 x 25) | 25      | 338-3816-01 | 1        | Harness, Dual Fuel                        |
| 3       | 526-2100    | 4        | Washer, Flat (M8)                      | 26      | 505-0007    | 1        | Bushing, Reducer (1/4 x 1/8)              |
| 4       | 800-3017-20 | 2        | Screw, Cap – Hex Head (M8 x 1.25 x 25) | 27      | 309-0669    | 1        | Switch, Low Pressure                      |
| 5       | 148-1015    | 1        | Regulator, Natural Gas                 | 28      | 502-1218    | 1        | Connector, Hose                           |
| 6       | 505-0177    | 2        | Nipple, Pipe (1-1/4 x 1.63)            | 29      | 338-4037    | 1        | Harness, Fuel Alarm                       |
| 7       | 505-0249    | 2        | Tee, Pipe                              | 30      | 148-1090    | 1        | Clamp, Fuel System (1.00)                 |
| 8       | 505-0297    | 1        | Bushing, Reducer (1.25 x .75)          | 31      | 148-1089    | 1        | Clamp, Fuel System (1.25)                 |
| 9       | 505-0268    | 1        | Nipple, Pipe (3/4 x 9.00)              | 32      | 821-6003-03 | 4        | Screw, Hex Head (M8 x 1.25 x 20)          |
| 10      | 148-1174    | 1        | Mixer (Includes Parts Marked *)        | 33      | 140-3161    | 1        | Cleaner, Air (Includes Stud and Wing Nut) |
| 11      | 148-1173-02 | 1        | * Adapter, Hose                        | 34      | 140-3151    | 1        | Element, Replacement – Air Cleaner        |
| 12      | 140-3246    | 1        | * G1-73 Gasket                         | 35      | 148-1181    | 1        | Hose, Mixer Adapter                       |
| 13      | 145-0540    | 1        | * G1-21 Gasket                         | 36      | 503-1870-05 | 2        | Clamp, Hose                               |
| 14      | 505-0157    | 1        | Nipple, Pipe (1-1/4 x 5.00)            | 37      | 155-1256    | 1        | Clamp, Muffler (1.50")                    |
| 15      | 307-2885    | 1        | Valve, Solenoid                        | 38      | 148-1166-02 | 1        | Bracket, Fuel System – Support            |
| 16      | 505-0258    | 1        | Nipple, Pipe (1-1/4 x 3.00)            | 39      | 526-0174    | 5        | Washer, Flat                              |
| 17      | 505-0473    | 1        | Elbow, Reducer – 90° (1 x 1.25)        | 40      | 800-2089    | 1        | Screw, Cap – Hex Head (M10 x 1.5 x 40)    |
| 18      | 505-0004    | 2        | Nipple, Pipe (1 x 1.50)                | 41      | 520-1030    | 1        | Stud – Air Cleaner                        |
| 19      | 148-0626    | 1        | Valve, Load Adjusting                  |         |             |          |   |
| 20      | 505-0090    | 1        | Nipple, Pipe (1 x 6.00)                |         |             |          |   |
| 21      | 148-0636    | 1        | Regulator, Propane Vapor               |         |             |          |   |
| 22      | 307-2884    | 1        | Valve, Solenoid                        |         |             |          |   |
| 23      | 505-0023    | 1        | Bushing, Reducer (1-1/4 x 1.00)        |         |             |          |   |

\* – Parts Included with 148-1174 Mixer

# Fuel System

## Natural Gas / Propane Liquid Withdrawl With Automatic Changeover





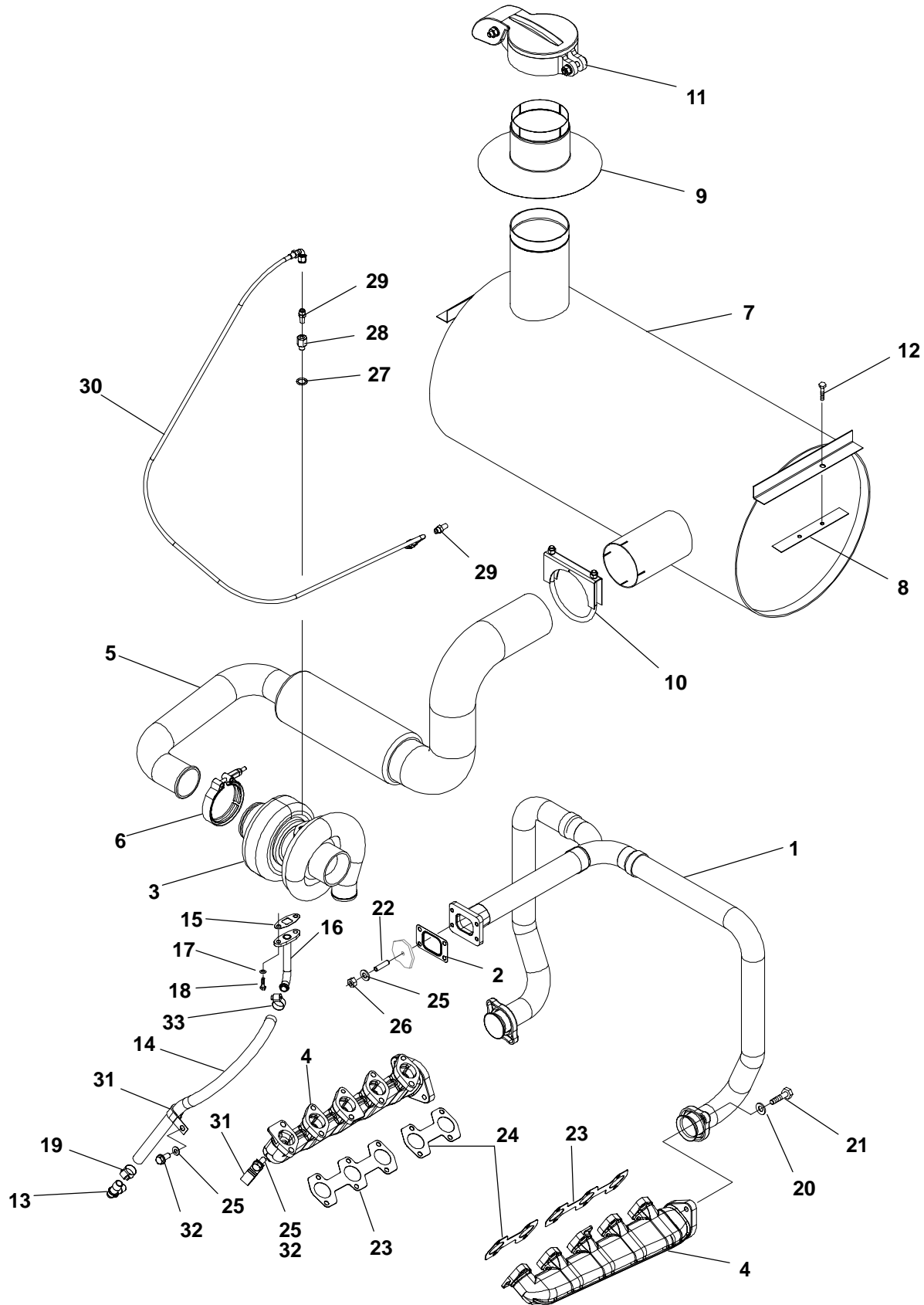
# Fuel System

## Natural Gas / Propane Liquid Withdrawl With Automatic Changeover

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                             | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION  |
|---------|-------------|----------|--|---------|-------------|----------|---|
| 1       | 148-1164-02 | 1        | Bracket, Fuel System Mounting                | 34      | 800-2115    | 2        | Screw, Cap – Hex Head (M12 x 1.75 x 45) (Genset Mounted Converter Only) |
| 2       | 505-0297    | 1        | Reducer, Bushing – Pipe (1.25 x .75)         | 35      | 148-0625    | 1        | Converter, Gas  |
| 3       | 505-0479    | 1        | Cap, Pipe (1.00)                             | 36      | 148-1152    | 1        | Solenoid, Primer  |
| 4       | 338-3816-01 | 1        | Harness, Wiring – Dual Fuel (Includes Relay) | 37      | 505-0004    | 2        | Nipple, Pipe (1 x 1.50)   |
| 5       | 307-2817-01 | 1        | Relay (12 Volt)                              | 38      | 505-0304    | 1        | Tee, Pipe   |
| 6       | 505-0268    | 1        | Nipple, Pipe (3/4 x 9.00)                    | 39      | 505-0086    | 1        | Nipple, Pipe (1 x 2.50)   |
| 7       | 148-1174    | 1        | Mixer (Includes Parts Marked *)              | 40      | 505-0041    | 1        | Elbow, Pipe   |
| 8       | 148-1173-02 | 1        | * Adapter, Hose                              | 41      | 501-0630    | 1        | Hose  |
| 9       | 140-3246    | 1        | * G1-73 Gasket                               | 42      | 502-0054    | 1        | Elbow, Pipe – Street  |
| 10      | 145-0540    | 1        | * G1-21 Gasket                               | 43      | 505-0099    | 1        | Nipple, Pipe (1/4 x .88)  |
| 11      | 502-1218    | 1        | Connector, Hose                              | 44      | 307-0268-01 | 1        | Valve, Solenoid   |
| 12      | 505-0249    | 2        | Tee, Pipe                                    | 45      | 502-0942    | 2        | Elbow, Hose – 90°   |
| 13      | 505-0258    | 1        | Nipple, Pipe (1-1/4 x 3.00)                  | 46      | 503-1988    | –        | Hose – Bulk (Order by the Foot – 8 Feet Required)                       |
| 14      | 505-0473    | 1        | Elbow, Reducer – 90° (1 x 1.25)              | 47      | 502-1006    | 1        | Connector, Hose (1/2 x 5/8)   |
| 15      | 505-0004    | 1        | Nipple, Pipe (1 x 1.50)                      | 48      | 505-0040    | 1        | Elbow, Pipe   |
| 16      | 148-0626    | 1        | Valve, Load Adjusting                        | 49      | 502-0827    | 1        | Hose, Barb  |
| 17      | 505-0157    | 1        | Nipple, Pipe (1-1/4 x 5.00)                  | 50      | 503-0191    | –        | Hose – Bulk (Order by the Foot – 1 Foot Required)                       |
| 18      | 338-4037    | 1        | Harness, Fuel Alarm                          | 51      | 815-0924    | 2        | Screw, Hex Washer Head (M6 x 1 x 40)                                    |
| 19      | 821-6002-03 | 1        | Screw, Hex Head (M6 x 1 x 16)                | 52      | 332-2634    | 3        | Clamp, J  |
| 20      | 148-1166-02 | 1        | Bracket, Fuel System – Support               | 53      | 503-0183    | 4        | Clamp, Hose   |
| 21      | 140-3161    | 1        | Cleaner, Air (Includes Stud and Wing Nut)    | 54      | 503-1872-01 | 2        | Clamp, Hose   |
| 22      | 140-3151    | 1        | Element, Replacement – Air Cleaner           | 55      | 338-3654-01 | 1        | Harness, LPG  |
| 23      | 148-1181    | 1        | Hose, Mixer Adapter                          | 56      | 520-1030    | 1        | Stud – Air Cleaner  |
| 24      | 503-1870-05 | 2        | Clamp, Hose                                  | 57      | 148-1015    | 1        | Regulator, Natural Gas  |
| 25      | 526-2100    | 4        | Washer, Flat (M8)                            | 58      | 307-2885    | 1        | Valve, Solenoid   |
| 26      | 800-3017-20 | 2        | Screw, Cap – Hex Head (M8 x 1.25 x 25)       | 59      | 505-0653    | 1        | Nipple, Pipe (1-1/4 x 4.00)   |
| 27      | 155-1256    | 1        | Clamp, Muffler (1.50")                       | 60      | 505-0023    | 1        | Bushing, Reducer (1-1/4 x 1.00)   |
| 28      | 526-0174    | 5        | Washer, Flat                                 | 61      | 505-0802    | 1        | Bushing, Reducer (1 x 1/4)  |
| 29      | 800-2089    | 1        | Screw, Cap – Hex Head (M10 x 1.5 x 40)       | 62      | 505-0177    | 1        | Nipple, Pipe (1-1/4 x 1.63)   |
| 30      | 800-2086    | 2        | Screw, Cap – Hex Head (M10 x 1.5 x 25)       | 63      | 505-0007    | 1        | Bushing, Reducer (1/4 x 1/8)  |
| 31      | 148-1089    | 1        | Clamp, Fuel System (1.25)                    | 64      | 309-0669    | 1        | Switch, Low Pressure  |
| 32      | 821-6003-03 | 2        | Screw, Hex Head (M8 x 1.25 x 20)             |         |             |          |   |
| 33      | 148-1148-02 | 1        | Bracket, Converter                           |         |             |          |   |

\* – Parts Included with 148-1174 Mixer

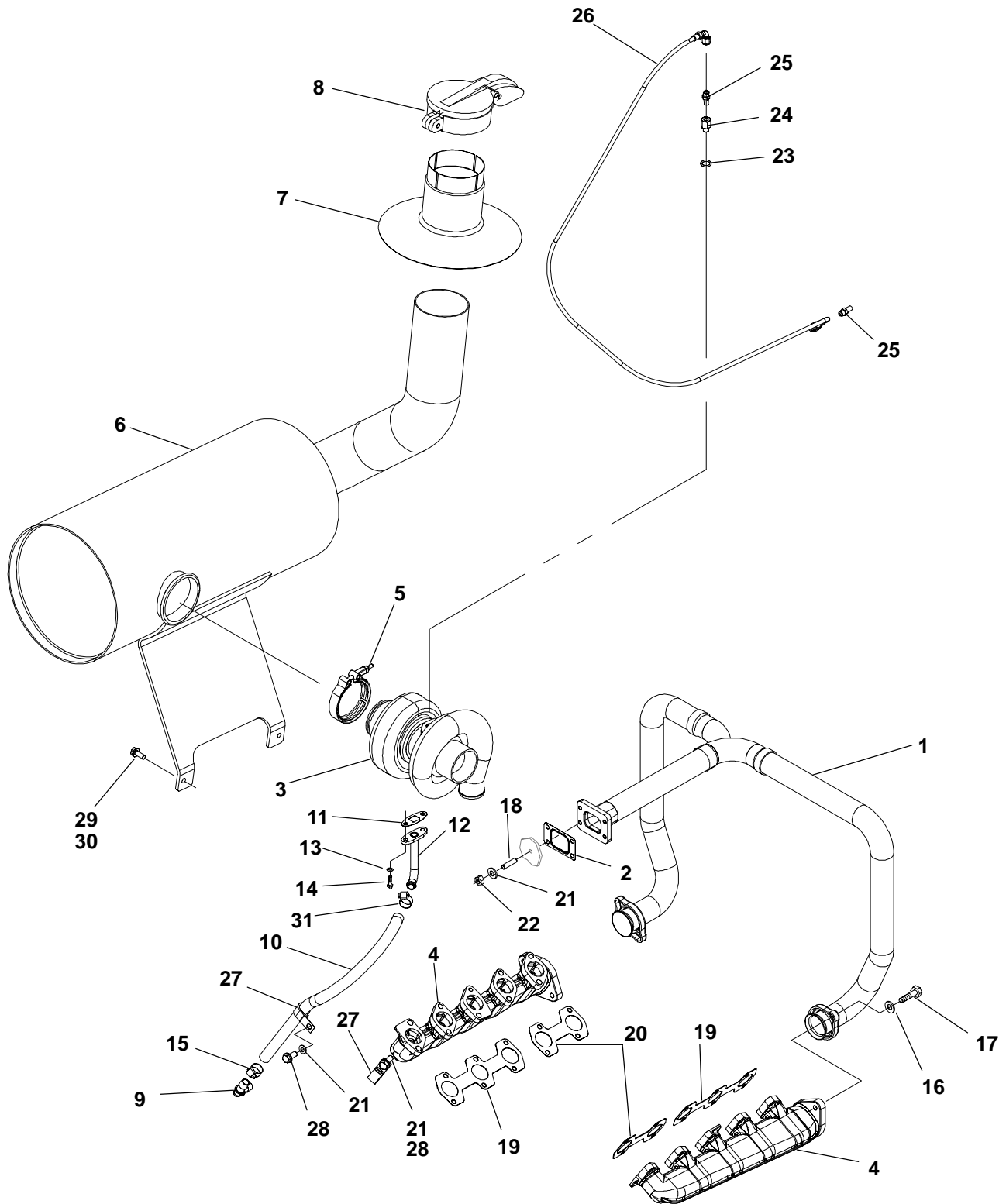
# Exhaust System Residential



## Exhaust System Residential

| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION                       | REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION                        |
|------------|-------------|-------------|---|------------|-------------|-------------|--|
| 1          | 154-3110    | 1           | Tube, Exhaust                             | 19         | 503-0183    | 1           | Clamp, Hose                                |
| 2          | 127-0324    | 1           | Gasket, Turbocharger                      | 20         | 526-2140    | 4           | Washer, Flat (M12)                         |
| 3          | 145-0795    | 1           | Turbocharger                              | 21         | 800-2115    | 4           | Screw, Cap – Hex Head (M12 x<br>1.75 x 45) |
| 4          | 154-3094    | 2           | Manifold, Exhaust                         | 22         | 520-2407    | 4           | Stud (M10 x 1.5 x 40)                      |
| 5          | 155-3394    | 1           | Tube, Exhaust                             | 23         | 154-3105    | 2           | Gasket, Exhaust Manifold                   |
| 6          | 155-2565    | 1           | Clamp, V-Band                             | 24         | 154-3106    | 2           | Gasket, Exhaust Manifold                   |
| 7          | 155-3150-05 | 1           | Silencer – Critical                       | 25         | 526-2120    | 6           | Washer, Flat (M10)                         |
| 8          | 155-3219    | 2           | Gasket, Muffler                           | 26         | 860-2009    | 4           | Nut, Hex (M10 x 1.5)                       |
| 9          | 155-3180    | 1           | Shield, Rain                              | 27         | 509-0290-04 | 1           | Seal, O-Ring (5/16)                        |
| 10         | 155-2305    | 1           | Clamp, Muffler (4")                       | 28         | 502-1381    | 1           | Connector, Restricted                      |
| 11         | 155-2062-13 | 1           | Cap, Rain                                 | 29         | 502-1240    | 2           | Adapter, Pipe                              |
| 12         | 821-6003-02 | 2           | Screw, Hex Head (M8 x 1.25 x<br>20)       | 30         | 127-0441    | 1           | Tube, Turbo Feed                           |
| 13         | 502-1372    | 1           | Elbow, Hose – Barb                        | 31         | 332-2634    | 2           | Clamp, J                                   |
| 14         | 503-2236    | 1           | Hose, Turbo – Drain                       | 32         | 800-2085    | 2           | Screw, Cap – Hex Head (M10 x<br>1.5 x 20)  |
| 15         | 127-0412    | 1           | Gasket, Oil Drain                         | 33         | 503-1136    | 1           | Clamp                                      |
| 16         | 145-0818-02 | 1           | Tube, Oil Drain                           |            |             |             |  |
| 17         | 850-2008    | 2           | Washer, Lock – Split (M8)                 |            |             |             |  |
| 18         | 800-2059    | 2           | Screw, Cap – Hex Head (M8 x<br>1.25 x 30) |            |             |             |  |

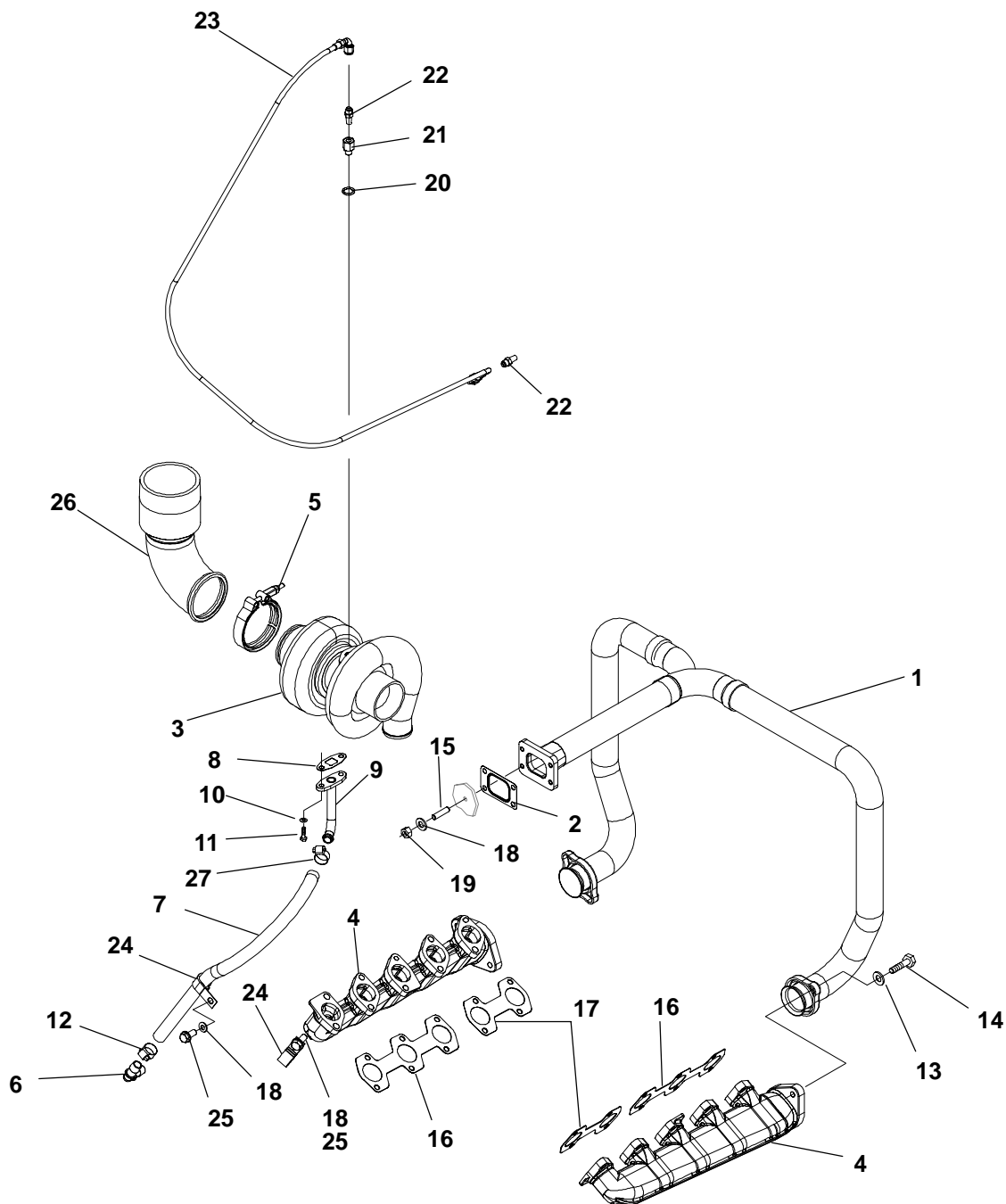
# Exhaust System Industrial



## Exhaust System Industrial

| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION                     | REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION                    |
|------------|-------------|-------------|---|------------|-------------|-------------|--|
| 1          | 154-3110    | 1           | Tube, Exhaust                           | 18         | 520-2407    | 4           | Stud (M10 x 1.5 x 40)                  |
| 2          | 127-0324    | 1           | Gasket, Turbocharger                    | 19         | 154-3105    | 2           | Gasket, Exhaust Manifold               |
| 3          | 145-0795    | 1           | Turbocharger                            | 20         | 154-3106    | 2           | Gasket, Exhaust Manifold               |
| 4          | 154-3094    | 2           | Manifold, Exhaust                       | 21         | 526-2120    | 6           | Washer, Flat (M10)                     |
| 5          | 155-2565    | 1           | Clamp, V-Band                           | 22         | 860-2009    | 4           | Nut, Hex (M10 x 1.5)                   |
| 6          | 155-3395    | 1           | Silencer                                | 23         | 509-0290-04 | 1           | Seal, O-Ring (5/16)                    |
| 7          | 155-3102-02 | 1           | Shield, Rain                            | 24         | 502-1381    | 1           | Connector, Restricted                  |
| 8          | 155-2062-10 | 1           | Cap, Rain                               | 25         | 502-1240    | 2           | Adapter, Pipe                          |
| 9          | 502-1372    | 1           | Elbow, Hose – Barb                      | 26         | 127-0441    | 1           | Tube, Turbo Feed                       |
| 10         | 503-2236    | 1           | Hose, Turbo – Drain                     | 27         | 332-2634    | 2           | Clamp, J                               |
| 11         | 127-0412    | 1           | Gasket, Oil Drain                       | 28         | 800-2085    | 2           | Screw, Cap – Hex Head (M10 x 1.5 x 20) |
| 12         | 145-0818-02 | 1           | Tube, Oil Drain                         | 29         | 526-2081    | 2           | Washer, Flat (M6)                      |
| 13         | 850-2008    | 2           | Washer, Lock – Split (M8)               | 30         | 800-2033    | 2           | Screw, Cap – Hex Head (M6 x 1 x 16)    |
| 14         | 800-2059    | 2           | Screw, Cap – Hex Head (M8 x 1.25 x 30)  | 31         | 503-1136    | 1           | Clamp                                  |
| 15         | 503-0183    | 1           | Clamp, Hose                             |            |             |             |  |
| 16         | 526-2140    | 4           | Washer, Flat (M12)                      |            |             |             |  |
| 17         | 800-2115    | 4           | Screw, Cap – Hex Head (M12 x 1.75 x 45) |            |             |             |  |

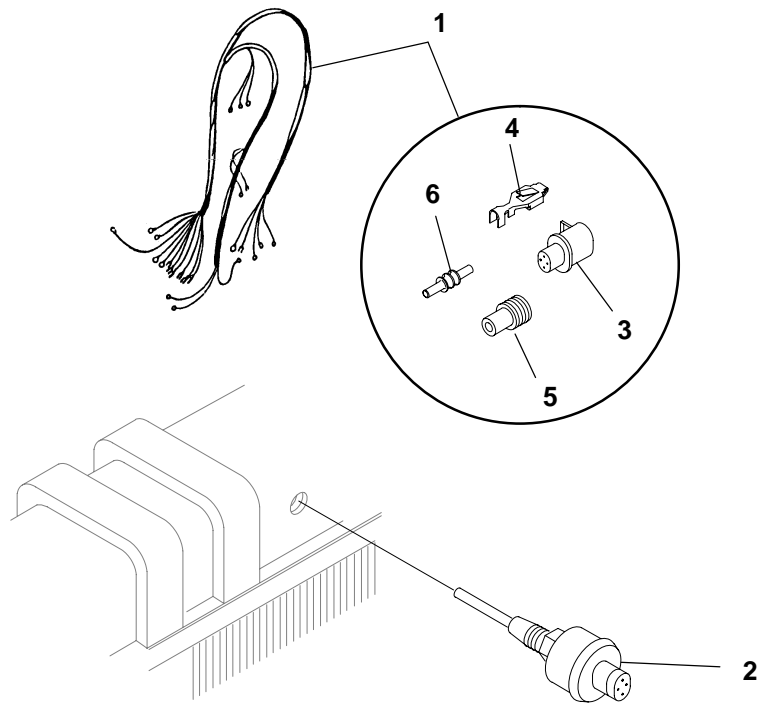
**Exhaust System  
With Threaded Exhaust Pipe**



## Exhaust System With Threaded Exhaust Pipe

| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION                        | REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION                       |
|------------|-------------|-------------|--|------------|-------------|-------------|---|
| 1          | 154-3110    | 1           | Tube, Exhaust                              | 15         | 520-2407    | 4           | Stud (M10 x 1.5 x 40)                     |
| 2          | 127-0324    | 1           | Gasket, Turbocharger                       | 16         | 154-3105    | 2           | Gasket, Exhaust Manifold                  |
| 3          | 145-0795    | 1           | Turbocharger                               | 17         | 154-3106    | 2           | Gasket, Exhaust Manifold                  |
| 4          | 154-3094    | 2           | Manifold, Exhaust                          | 18         | 526-2120    | 6           | Washer, Flat (M10)                        |
| 5          | 155-2565    | 1           | Clamp, V-Band                              | 19         | 860-2009    | 4           | Nut, Hex (M10 x 1.5)                      |
| 6          | 502-1372    | 1           | Elbow, Hose – Barb                         | 20         | 509-0290-04 | 1           | Seal, O-Ring (5/16)                       |
| 7          | 503-2236    | 1           | Hose, Turbo – Drain                        | 21         | 502-1381    | 1           | Connector, Restricted                     |
| 8          | 127-0412    | 1           | Gasket, Oil Drain                          | 22         | 502-1240    | 2           | Adapter, Pipe                             |
| 9          | 145-0818-02 | 1           | Tube, Oil Drain                            | 23         | 127-0441    | 1           | Tube, Turbo Feed                          |
| 10         | 850-2008    | 2           | Washer, Lock – Split (M8)                  | 24         | 332-2634    | 2           | Clamp, J                                  |
| 11         | 800-2059    | 2           | Screw, Cap – Hex Head (M8 x<br>1.25 x 30)  | 25         | 800-2085    | 2           | Screw, Cap – Hex Head (M10 x<br>1.5 x 20) |
| 12         | 503-0183    | 1           | Clamp, Hose                                | 26         | 155-3116    | 1           | Adapter, Exhaust                          |
| 13         | 526-2140    | 4           | Washer, Flat (M12)                         | 27         | 503-1136    | 1           | Clamp                                     |
| 14         | 800-2115    | 4           | Screw, Cap – Hex Head (M12 x<br>1.75 x 45) |            |             |             |   |

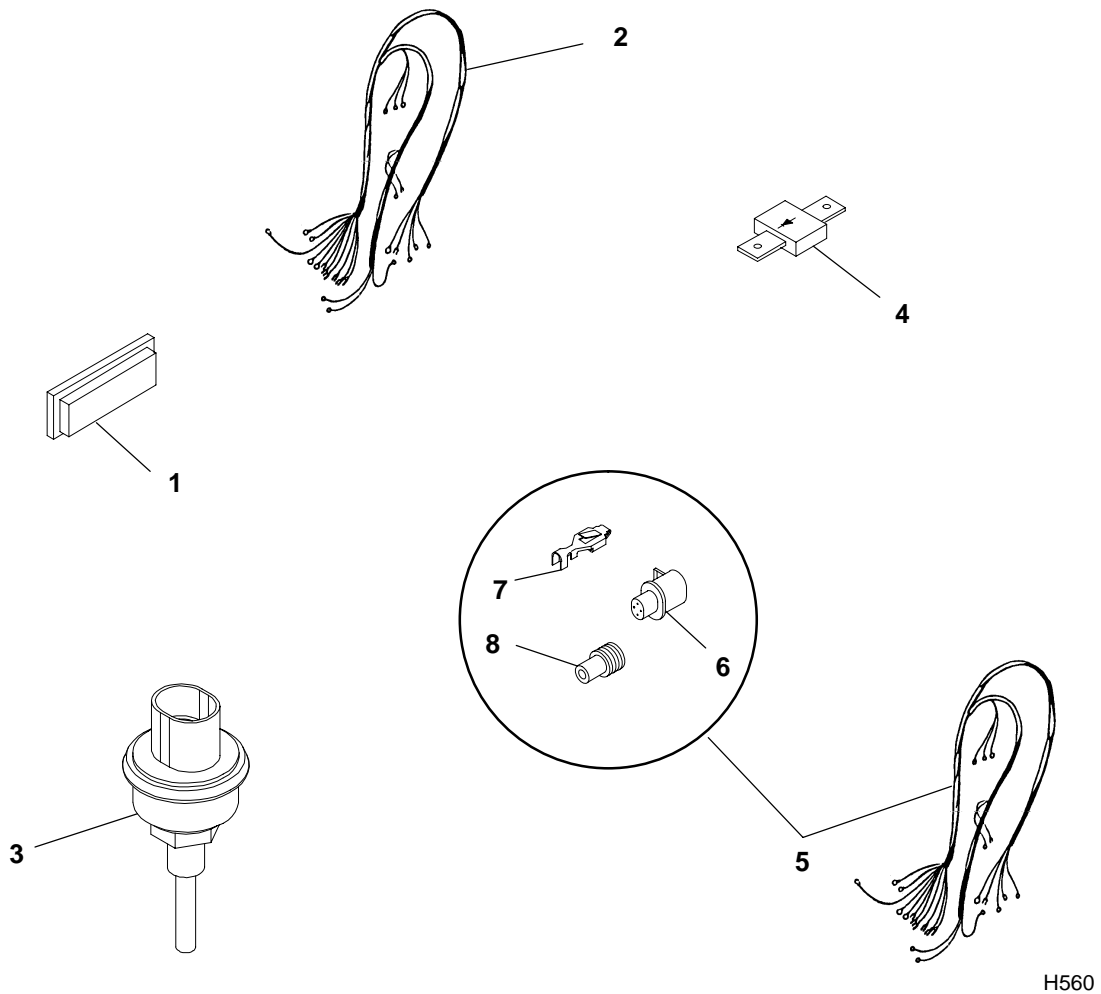
# **Low Coolant Level Sender** **Without Continuously Monitored Low Coolant Level**



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



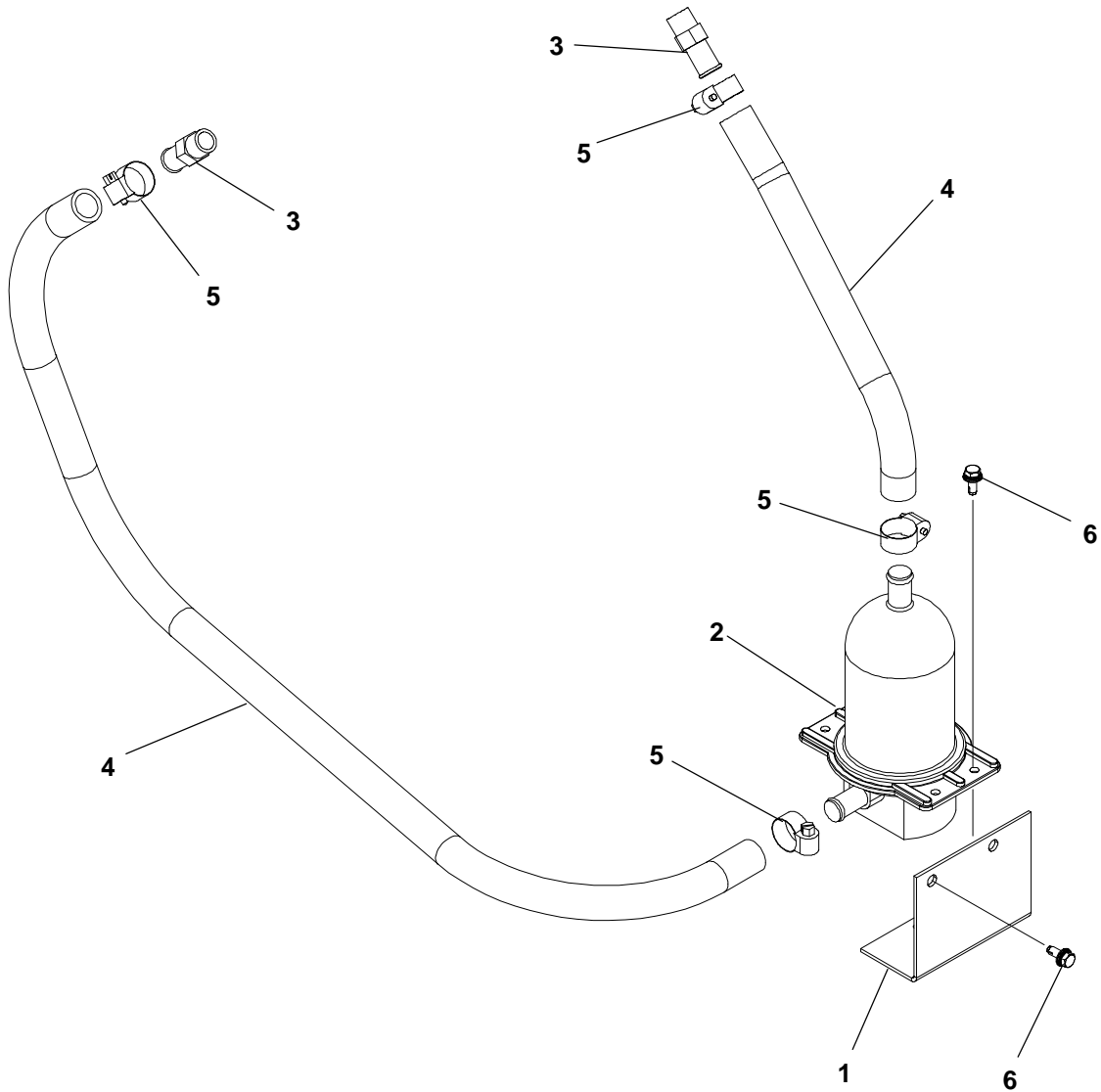
# **Low Coolant Level Sender With Continuously Monitored Low Coolant Level 12 Light Indicator Controls**



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

\* – Parts Included in 338-3594 Pigtail Harness

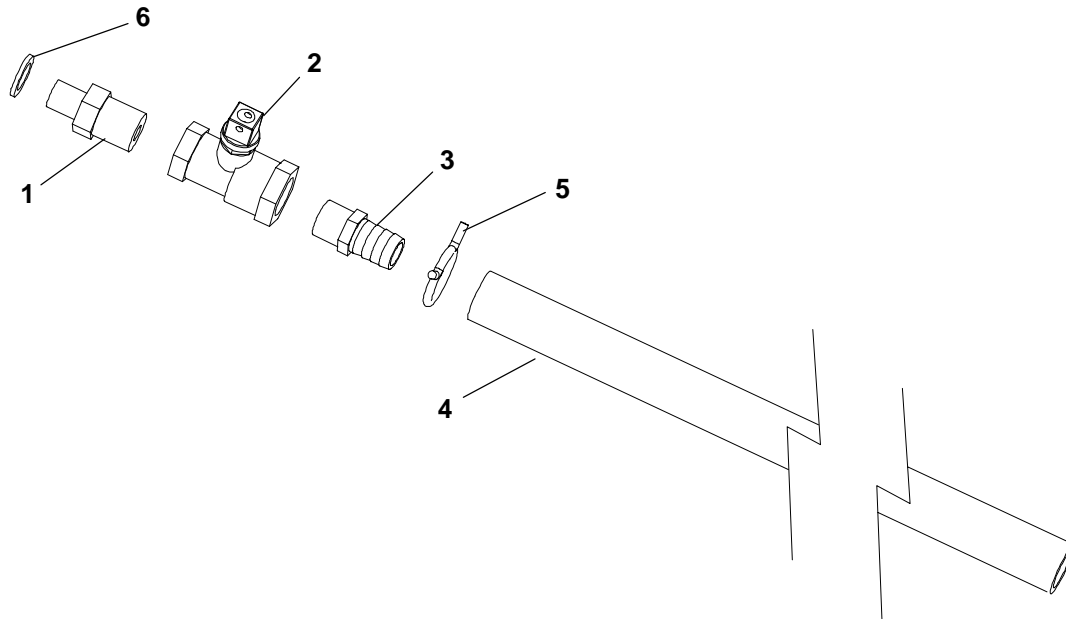
## Coolant Heater



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION         |
|---------|-------------|----------|--------------------------|
| 1       | 333-0616    | 1        | Bracket, Mounting        |
| 2       | 333-0588-03 | 1        | Heater, Coolant 120 Volt |
|         | 333-0588-04 | 1        | 240 Volt                 |
| 3       | 502-0943    | 2        | Connector, Hose          |

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION  |
|---------|-------------|----------|---|
| 4       | 503-0386    | —        | Hose, Heater – Bulk (Order by the Foot – 5 Feet Required) |
| 5       | 503-0183    | 4        | Clamp, Hose   |
| 6       | 821-6006-01 | 4        | Screw, Hex Head – Stainless Steel (M6 x 1 x 16)           |

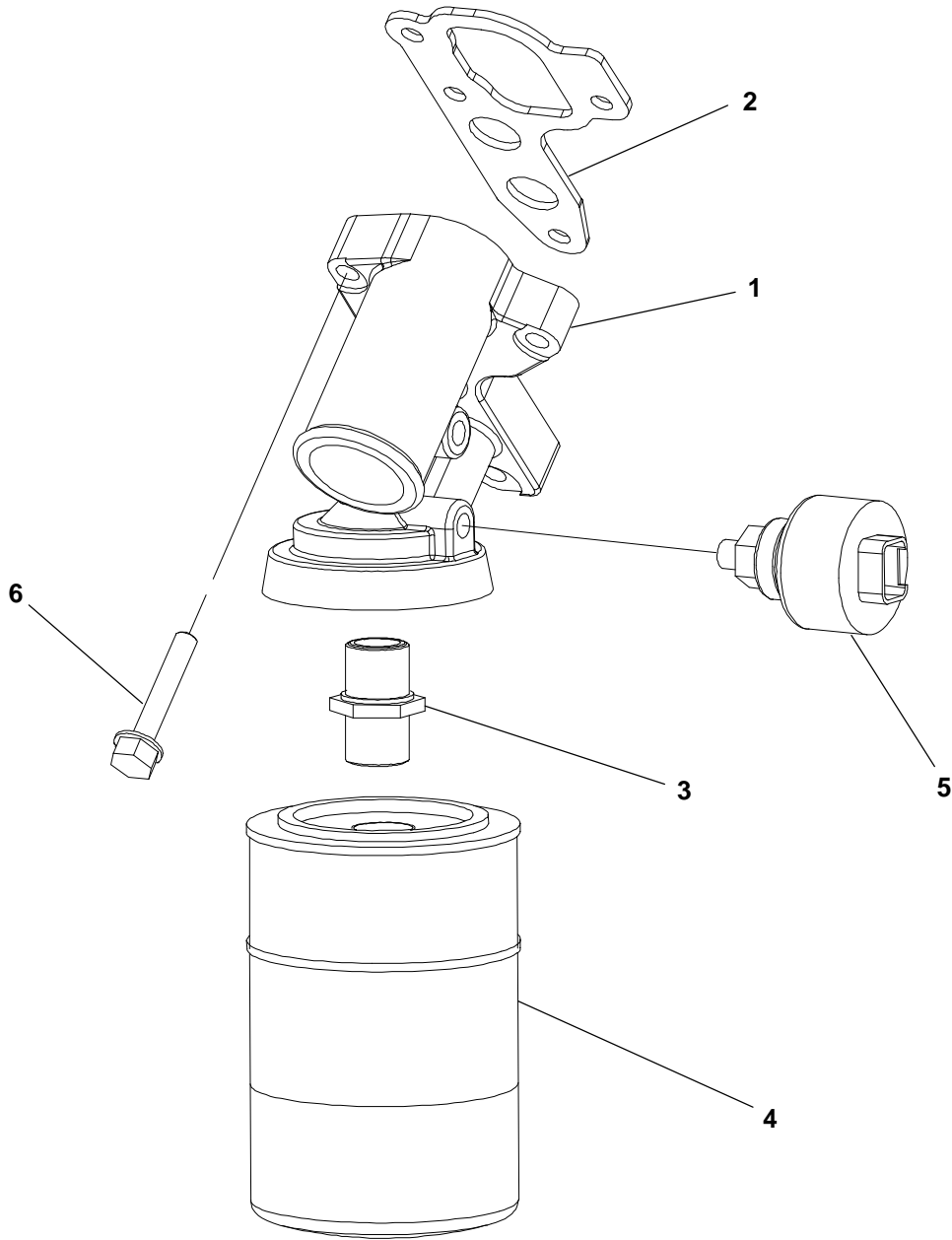
## Oil Drain



H268

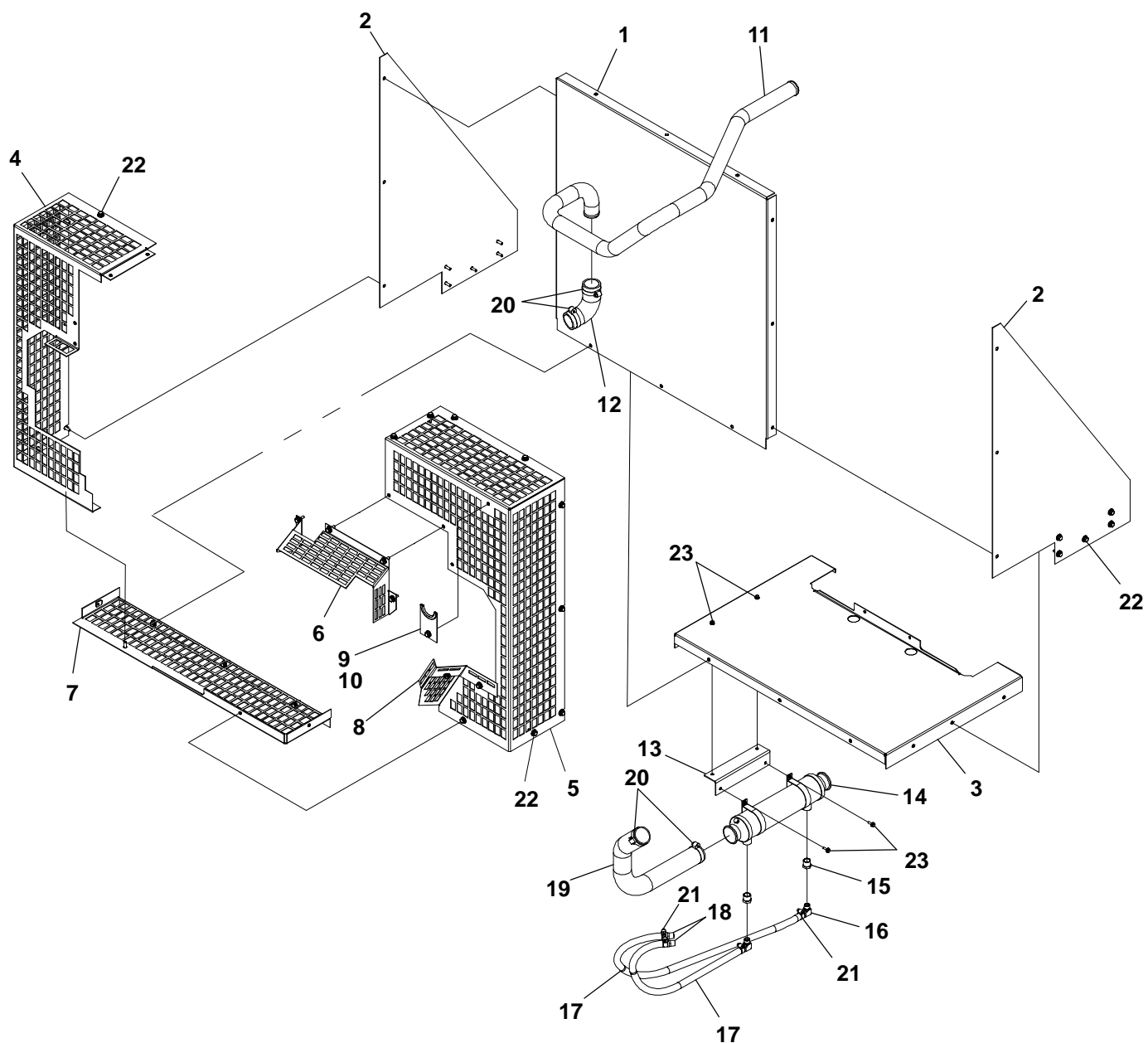
| REF NO. | PART NO. | QTY USED | PART DESCRIPTION   | REF NO. | PART NO. | QTY USED | PART DESCRIPTION  |
|---------|----------|----------|--|---------|----------|----------|-------------------|
| 1       | 102-1054 | 1        | Adapter, Oil Drain   | 5       | 503-0197 | 1        | Clip, Hose        |
| 2       | 504-0011 | 1        | Valve, Shutoff   | 6       | 102-1320 | 1        | Gasket, Oil Drain |
| 3       | 502-0827 | 1        | Barb, Hose (1/2 x 3/4)                                       |         |          |          |                   |
| 4       | 503-0098 | —        | Hose, Oil Drain – Bulk (Order by the Foot – 2 Feet Required) |         |          |          |                   |

## Oil Filter



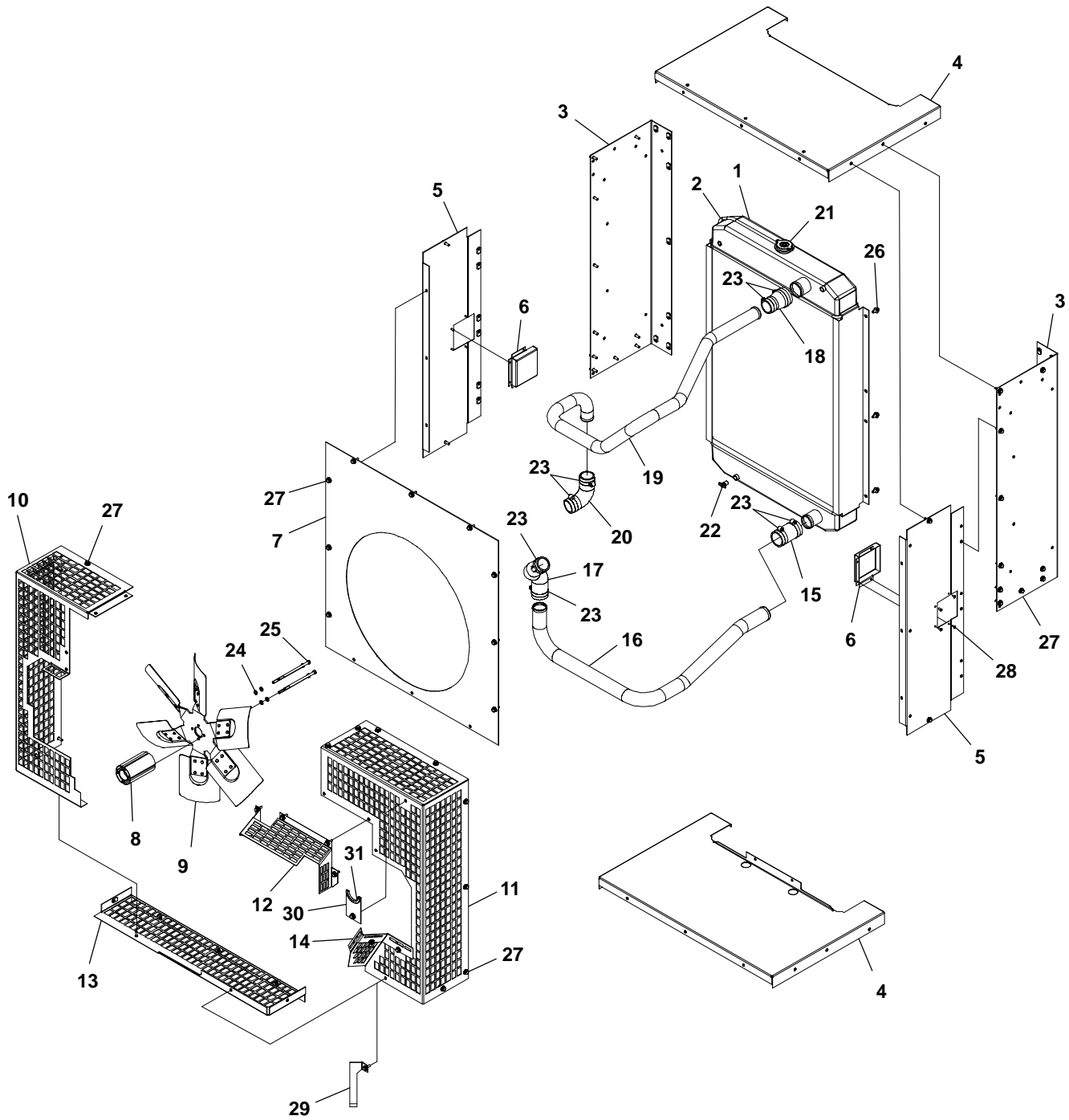
| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION           | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                          |
|---------|-------------|----------|----------------------------|---------|----------|----------|---|
| 1       | 122-0837    | 1        | Adapter, Oil Filter        | 5       | 193-0448 | 1        | Sender, Oil Pressure                      |
| 2       | 122-0842    | 1        | Gasket, Oil Filter Adapter | 6       | 815-0970 | 4        | Screw, Hex – Flange Head (M8 x 1.25 x 40) |
| 3       | 122-0838-02 | 1        | Stud, Oil Filter           |         |          |          |   |
| 4       | 122-0841    | 1        | Filter, Oil                |         |          |          |   |

## Remote Radiator



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                    | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION   |
|---------|-------------|----------|---|---------|-------------|----------|--|
| 1       | 130-5410-02 | 1        | Panel, Radiator Housing – Front                     | 13      | 102-1502-02 | 1        | Bracket, Oil Cooler  |
| 2       | 130-5409-02 | 2        | Panel, Radiator Housing – Side                      | 14      | 102-1238    | 1        | Cooler, Oil  |
| 3       | 130-5397-02 | 1        | Cover, Shroud – Bottom                              | 15      | 505-0019    | 2        | Bushing, Reducer (1/2 x 3/8)                                 |
| 4       | 130-5317-02 | 1        | Guard, Fan – Left Side                              | 16      | 502-0237    | 2        | Elbow – 90° (.50 x 3/8-18)                                   |
| 5       | 130-5316-02 | 1        | Guard, Fan – Right Side                             | 17      | 503-1101    | –        | Hose, Hydraulic – Bulk (Order by the Foot – 6 Feet Required) |
| 6       | 130-5320-02 | 1        | Guard, Alternator                                   | 18      | 502-1168    | 2        | Connector, Hose (3/8 x 1/2)                                  |
| 7       | 130-5318-02 | 1        | Guard, Fan – Lower                                  | 19      | 130-5413    | 1        | Hose, Radiator – Flexible                                    |
| 8       | 130-5306-02 | 1        | Guard, Fan  | 20      | 503-0465    | 4        | Clamp, Hose  |
| 9       | 130-5430-02 | 1        | Support, Tube                                       | 21      | 503-0446    | 4        | Clamp, Hose  |
| 10      | 508-0305-02 | –        | Edging – Bulk (Order by the Foot – 1 Foot Required) | 22      | 821-6003-02 | 36       | Screw, Hex Head (M8 x 1.25 x 20)                             |
| 11      | 130-5362-02 | 1        | Tube, Inlet   | 23      | 821-6002-02 | 4        | Screw, Hex Head (M6 x 1 x 16)                                |
| 12      | 130-5360    | 1        | Hose, Inlet   |         |             |          |  |

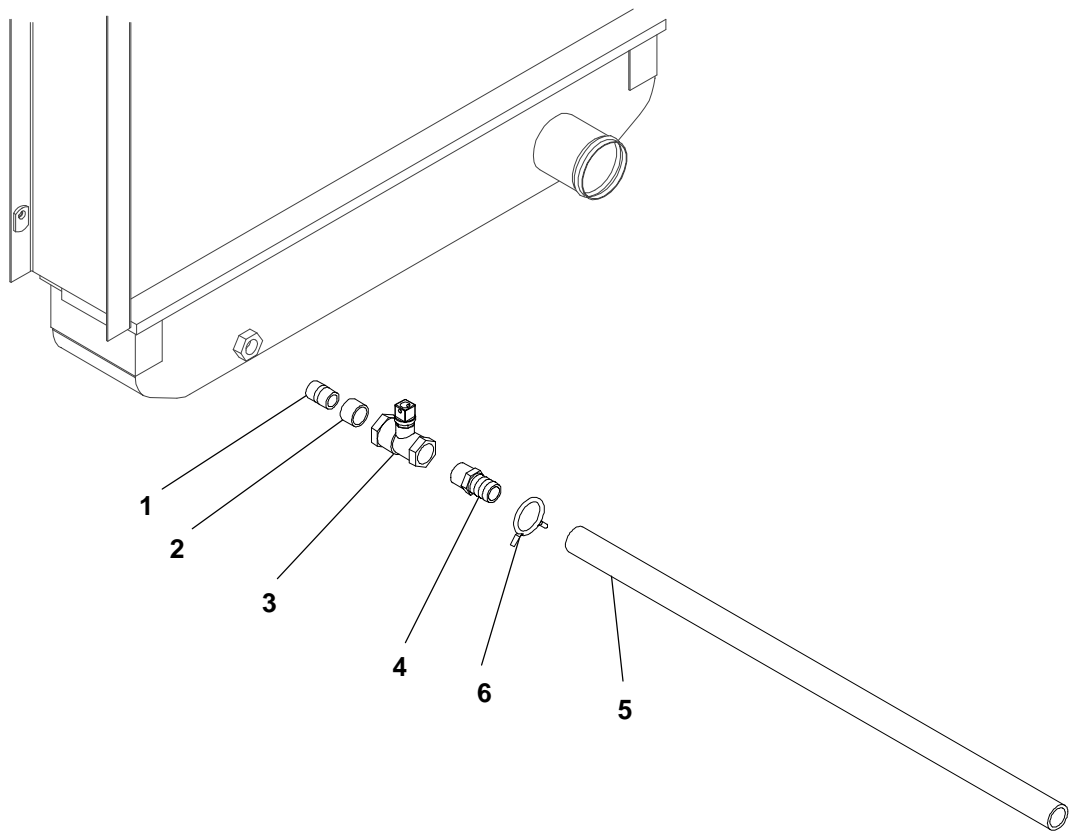
# Radiator



## Radiator

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION   | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                    |
|---------|-------------|----------|--|---------|-------------|----------|---|
| 1       |             |          | Radiator (Includes Over Flow Hose)                           | 16      | 130-5364-02 | 1        | Tube, Outlet  |
|         | 130-4691-01 | 1        | 3 Row  | 17      | 130-5363    | 1        | Hose, Outlet  |
|         | 130-4691-02 | 1        | 4 Row  | 18      | 130-5365    | 1        | Hose, Inlet   |
| 2       | 503-0276    | -        | Hose, Over Flow - Bulk (Order by the Foot - 5 Feet Required) | 19      | 130-5362-02 | 1        | Tube, Inlet   |
|         |             |          |  | 20      | 130-5360    | 1        | Hose, Inlet   |
| 3       | 130-4694    | 2        | Side, Housing  | 21      | 130-3721-01 | 1        | Cap, Radiator (15 PSI)                              |
| 4       | 130-5313-02 | 2        | Cover, Shroud  | 22      | 504-0003    | 1        | Cock, Drain   |
| 5       | 130-5398-02 | 2        | Panel, Shroud - Side   | 23      | 503-0465    | 8        | Clamp, Hose   |
| 6       | 130-5399-02 | 2        | Cover, Shroud - Latch  | 24      | 526-2101    | 4        | Washer, Flat (M8)                                   |
| 7       | 130-5312-02 | 1        | Shroud - 24" Fan   | 25      | 800-2077    | 4        | Screw, Cap - Hex Head (M8 x 1.25 x 150)             |
| 8       | 130-5213-01 | 1        | Spacer, Fan  | 26      | 821-6007-02 | 6        | Screw, Hex Head (Stainless Steel) (M8 x 1.25 x 20)  |
| 9       | 130-5287    | 1        | Fan, Radiator  | 27      | 821-6003-02 | 59       | Screw, Hex Head (M8 x 1.25 x 20)                    |
| 10      | 130-5317-02 | 1        | Guard, Fan - Right Hand                                      |         |             |          |   |
| 11      | 130-5316-02 | 1        | Guard, Fan - Left Hand                                       | 28      | 818-0231-02 | 8        | Rivet, Pop  |
| 12      | 130-5320-02 | 1        | Guard, Alternator  | 29      | 130-5319-02 | 1        | Hanger, Hose (Lower)                                |
| 13      | 130-5318-02 | 1        | Guard, Fan - Lower   | 30      | 130-5430-02 | 1        | Support, Tube                                       |
| 14      | 130-5306-02 | 1        | Guard, Fan   | 31      | 508-0305-02 | -        | Edging - Bulk (Order by the Foot - 1 Foot Required) |
| 15      | 503-1554    | 1        | Hose, Radiator   |         |             |          |   |

Radiator Drain Extension

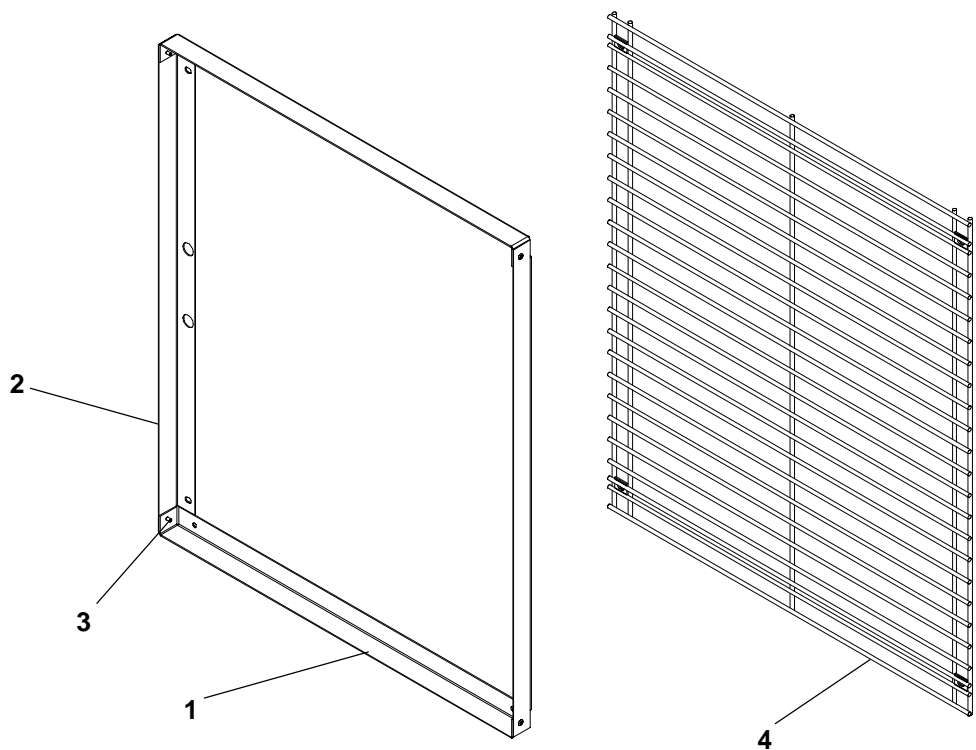


E089

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION             | REF NO. | PART NO. | QTY USED | PART DESCRIPTION       |
|---------|----------|----------|------------------------------|---------|----------|----------|------------------------|
| 1       | 502-0085 | 1        | Nipple, Pipe – Brass (3/8")  | 4       | 502-0827 | 1        | Barb, Hose (1/2 x 3/4) |
| 2       | 505-0117 | 1        | Bushing, Flush (3/8" X 1/2") | 5       | 503-1195 | 1        | Hose, Drain (24")      |
| 3       | 504-0011 | 1        | Valve, Shutoff (1/2")        | 6       | 503-0197 | 1        | Clamp, Hose            |



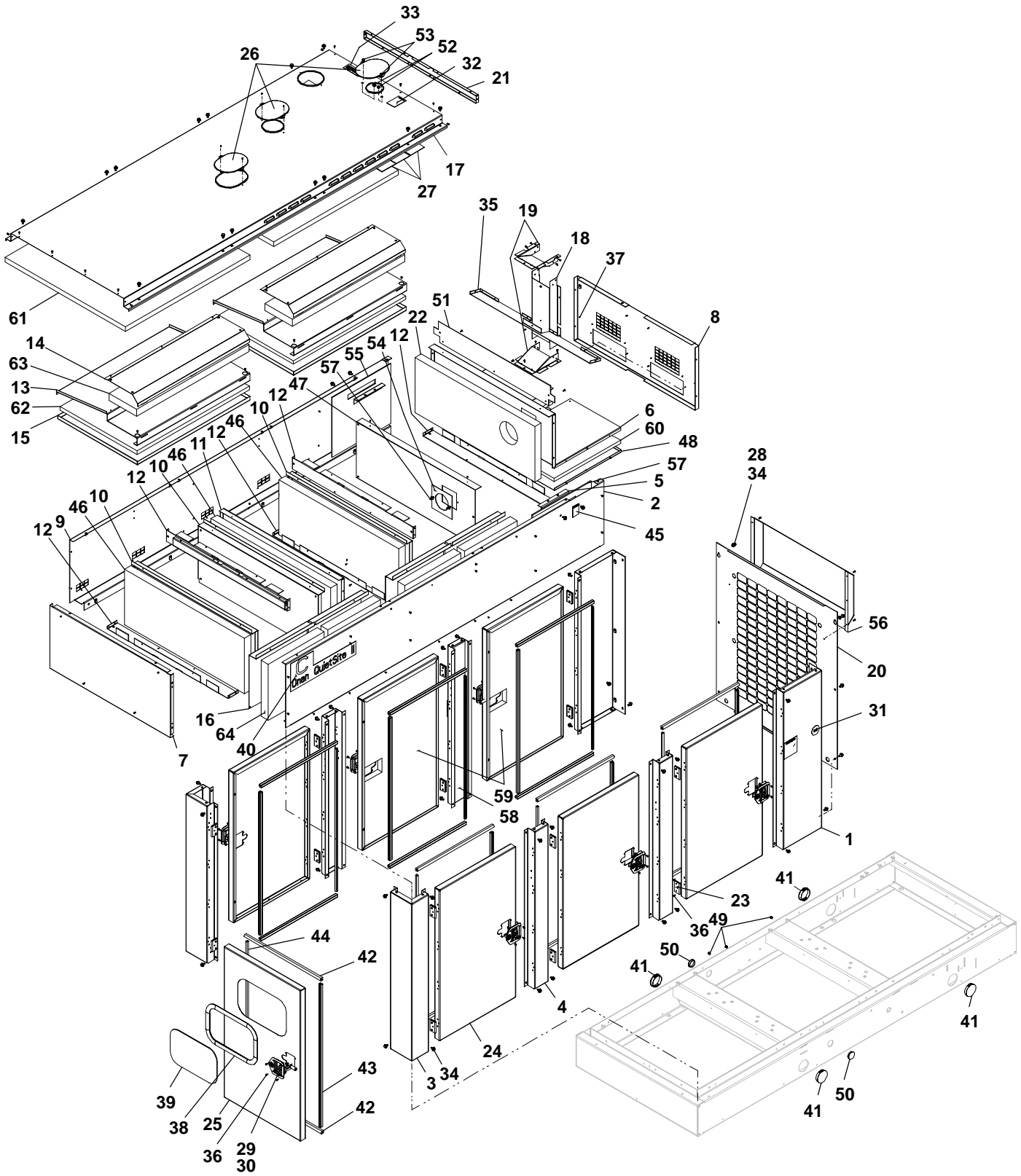
Duct Adapter



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION     |
|---------|----------|----------|----------------------|
| 1       | 130-4622 | 2        | Adapter, Duct        |
| 2       | 130-4734 | 2        | Adapter, Duct – Side |

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION |
|---------|-------------|----------|------------------|
| 3       | 818-0231-02 | 4        | Rivet, Pop       |
| 4       | 130-4735    | 1        | Grille           |

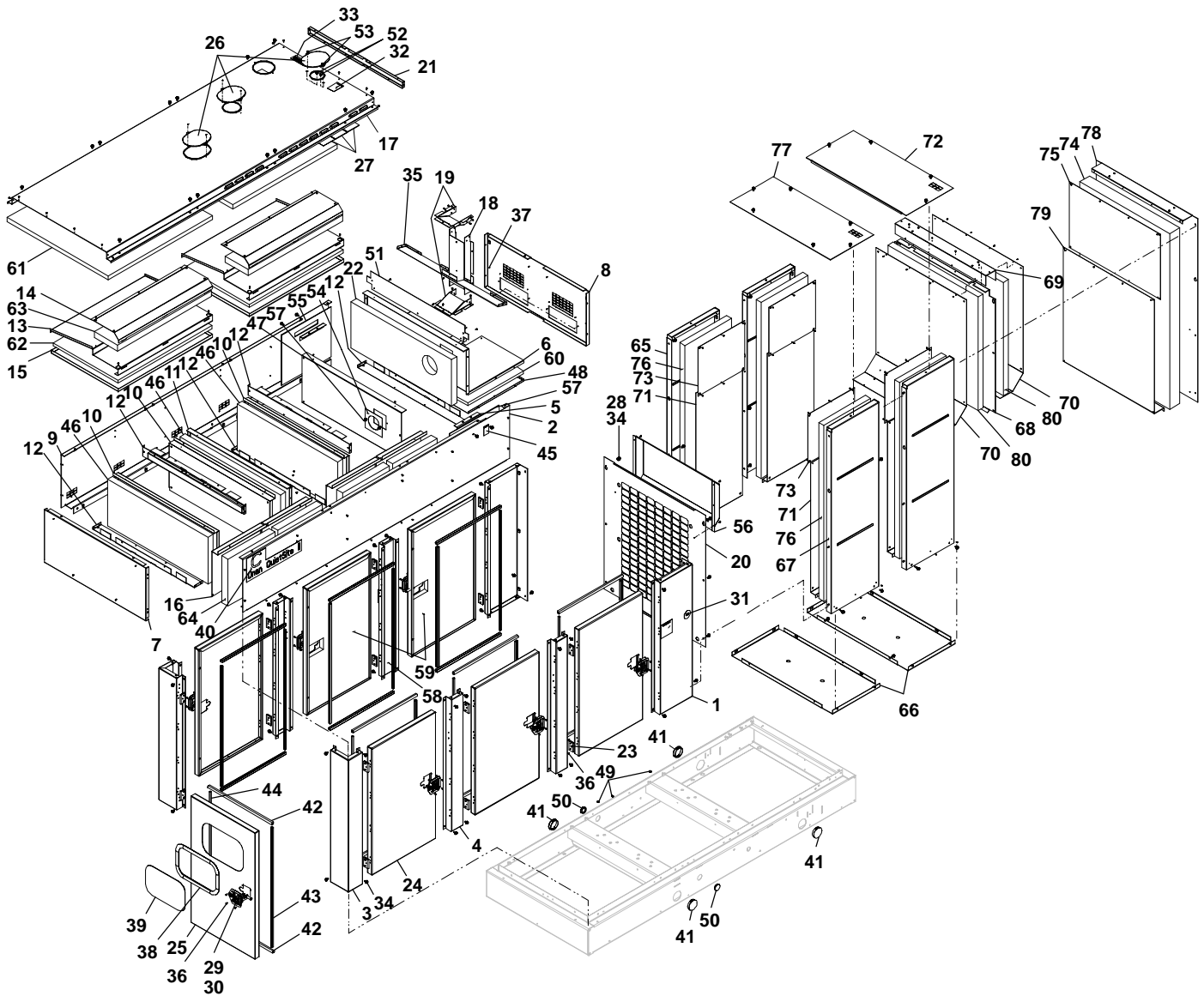
## F172 Enclosure



## F172 Enclosure

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION  | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION  |
|---------|----------|----------|---|---------|-------------|----------|---|
| 1       | 405-5908 | 2        | Panel, Side – Radiator Housing                                    | 32      | 098-4730    | 1        | Label, Warning  |
| 2       | 405-5951 | 1        | Extension, Side – Left Hand                                       | 33      | 098-5429    | 1        | Label, Coolant Fill   |
| 3       | 405-5916 | 2        | Post, Corner  | 34      | 821-6007-02 | 54       | Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)                            |
| 4       | 405-5744 | 4        | Post, Housing – Center  |         |             |          |   |
| 5       | 405-5998 | 2        | Support, Muffler  | 35      | 405-5959    | 1        | Baffle, Recirculation   |
| 6       | 405-5966 | 1        | Box, Muffler  | 36      | 818-0231-02 | 164      | Rivet, Pop (3/16")  |
| 7       | 405-5953 | 1        | Panel, End – Roof   | 37      | 818-0237-01 | 39       | Rivet, Pop (1/8")   |
| 8       | 405-5952 | 1        | Panel, End – Roof   | 38      | 895-0363    | –        | Weatherstrip – Bulk (Order by the foot – 5 Feet Required) – Units With Window |
| 9       | 405-5950 | 1        | Extension, Side – Right Hand                                      |         |             |          |   |
| 10      | 405-5961 | 3        | Retainer, Insulation  | 39      | 319-2653    | 1        | Window, Control   |
| 11      | 405-5956 | 1        | Support, Center   | 40      | 098-7470    | 2        | Label, Model  |
| 12      | 405-5957 | 5        | Angle   | 41      | 517-0322    | 4        | Plug, Hole  |
| 13      | 405-5954 | 2        | Baffle, Air   | 42      | 895-0384    | 14       | Seal, Weather   |
| 14      | 405-5958 | 2        | Retainer, Insulation  | 43      | 895-0385    | 7        | Seal, Weather   |
| 15      | 405-5955 | 2        | Retainer, Insulation  | 44      | 895-0386    | 7        | Seal, Weather   |
| 16      | 405-6015 | 2        | Retainer, Insulation  | 45      | 098-7451    | 2        | Label, Caution  |
| 17      | 405-5926 | 1        | Roof  | 46      | 405-5841    | 3        | Fiberglass  |
| 18      | 405-5963 | 1        | Tube, Fill – Radiator   | 47      | 405-6034    | 1        | Retainer, Insulation  |
| 19      | 405-6003 | 2        | Box, Radiator Fill  | 48      | 405-5960    | 1        | Retainer, Insulation  |
| 20      | 405-5909 | 1        | Panel, Front – Radiator Housing                                   | 49      | 517-0131    | 3        | Plug, Hole (.375")  |
| 21      | 405-5917 | 2        | Panel, End – Roof   | 50      | 517-0138-07 | 2        | Plug, Hole (1.75")  |
| 22      | 405-6109 | 1        | Fiberglass  | 51      | 405-6002    | 1        | Air Dam   |
| 23      | 406-0831 | 14       | Hinge, Housing  | 52      | 870-0504    | 2        | Nut, Captive Floating (M6 x 1.0)  |
| 24      |          |          | Door, Housing   | 53      | 821-6006-01 | 2        | Screw, Hex Head – Stainless Steel (M6 x 1 x 16)                               |
|         | 405-5902 | 7        | Without Window  |         |             |          |   |
|         | 405-5902 | 6        | With Window   | 54      | 405-5986    | 1        | Cover, Exhaust – Inlet  |
| 25      | 405-5903 | 1        | Door, Housing – With Window                                       | 55      | 526-0011    | 2        | Washer, Flat  |
| 26      | 155-3238 | 3        | Cover, Exhaust  | 56      | 405-5962    | 1        | Baffle, Air – Discharge   |
| 27      | 130-4848 | –        | Insulation, Exhaust – Bulk (Order by the Foot – 10 Feet Required) | 57      | 128-0252    | 2        | Insulation, Foam  |
|         |          |          |   | 58      | 405-6001-02 | 2        | Fiberglass  |
|         |          |          |   | 59      | 405-5734    | 4        | Insulation, Door  |
| 28      | 526-0451 | 4        | Washer, Flat – Stainless Steel                                    | 60      | 405-6005    | 1        | Fiberglass  |
| 29      | 406-0918 | 7        | Latch, Door   | 61      | 405-6001-01 | 2        | Fiberglass  |
| 30      | 406-0782 | 7        | Key, Replacement – Fits 406-0918 Latch                            | 62      | 405-6000-03 | 2        | Fiberglass  |
|         |          |          |   | 63      | 405-6000-02 | 2        | Fiberglass  |
| 31      | 098-4500 | 2        | Label, Prototype  | 64      | 405-5997    | 2        | Fiberglass  |

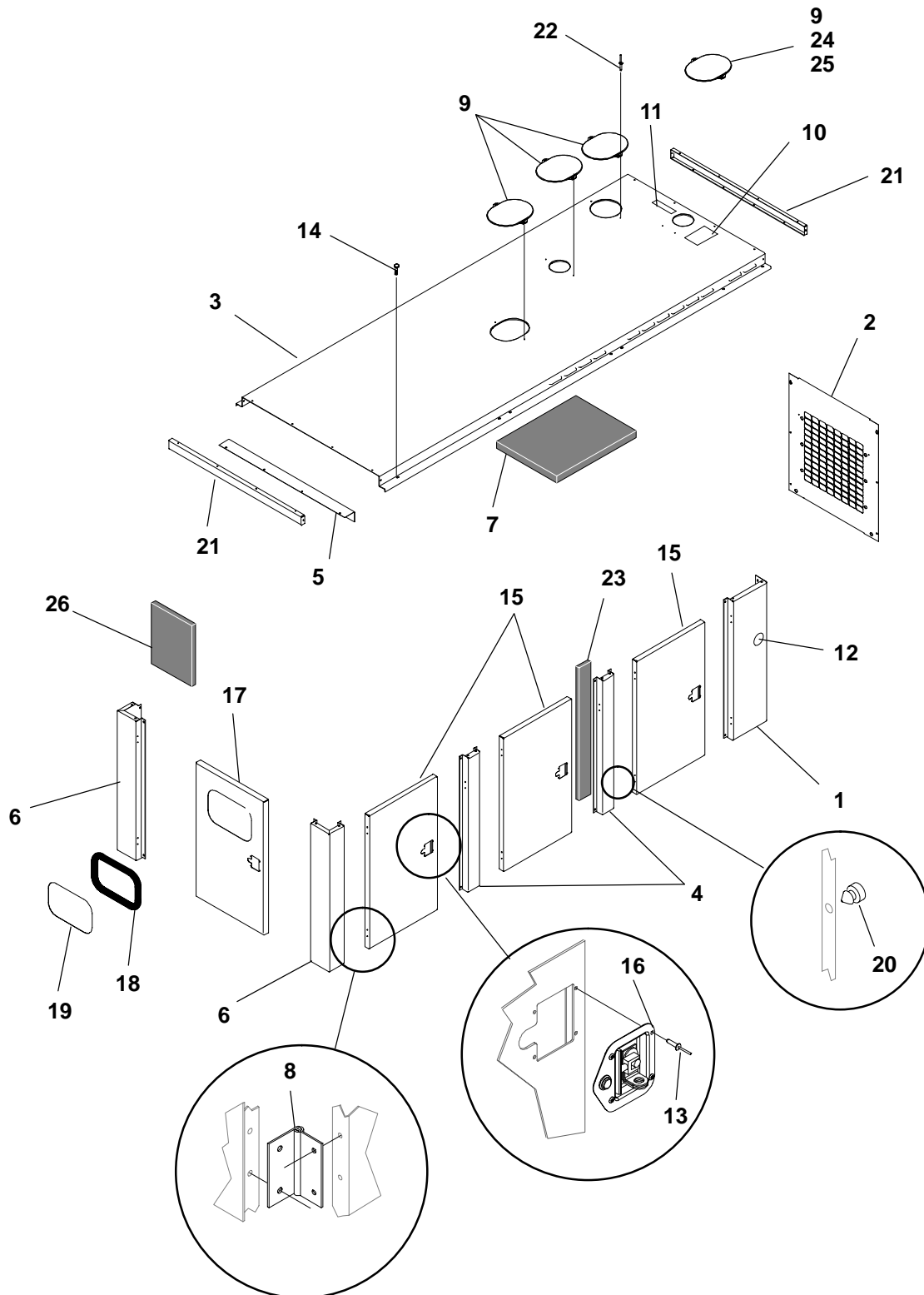
# F173 Enclosure



## F173 Enclosure

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION  | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                |
|---------|-------------|----------|---|---------|-------------|----------|---|
| 1       | 405-5908    | 2        | Panel, Side – Radiator Housing  | 39      | 319-2653    | 1        | Window, Control                                 |
| 2       | 405-5951    | 1        | Extension, Side – Left Hand   | 40      | 098-7470    | 2        | Label, Model                                    |
| 3       | 405-5916    | 2        | Post, Corner  | 41      | 517-0322    | 4        | Plug, Hole                                      |
| 4       | 405-5744    | 4        | Post, Housing – Center  | 42      | 895-0384    | 14       | Seal, Weather                                   |
| 5       | 405-5998    | 2        | Support, Muffler  | 43      | 895-0385    | 7        | Seal, Weather                                   |
| 6       | 405-5966    | 1        | Box, Muffler  | 44      | 895-0386    | 7        | Seal, Weather                                   |
| 7       | 405-5953    | 1        | Panel, End – Roof   | 45      | 098-7451    | 2        | Label, Caution                                  |
| 8       | 405-5952    | 1        | Panel, End – Roof   | 46      | 405-5841    | 3        | Fiberglass                                      |
| 9       | 405-5950    | 1        | Extension, Side – Right Hand  | 47      | 405-6034    | 1        | Retainer, Insulation                            |
| 10      | 405-5961    | 3        | Retainer, Insulation  | 48      | 405-5960    | 1        | Retainer, Insulation                            |
| 11      | 405-5956    | 1        | Support, Center   | 49      | 517-0131    | 3        | Plug, Hole (.375")                              |
| 12      | 405-5957    | 5        | Angle   | 50      | 517-0138-07 | 2        | Plug, Hole (1.75")                              |
| 13      | 405-5954    | 2        | Baffle, Air   | 51      | 405-6002    | 1        | Air Dam   |
| 14      | 405-5958    | 2        | Retainer, Insulation  | 52      | 870-0504    | 2        | Nut, Captive Floating (M6 x 1.0)                |
| 15      | 405-5955    | 2        | Retainer, Insulation  | 53      | 821-6006-01 | 2        | Screw, Hex Head – Stainless Steel (M6 x 1 x 16) |
| 16      | 405-6015    | 2        | Retainer, Insulation  | 54      | 405-5986    | 1        | Cover, Exhaust – Inlet                          |
| 17      | 405-5926    | 1        | Roof  | 55      | 526-0011    | 2        | Washer, Flat                                    |
| 18      | 405-5963    | 1        | Tube, Fill – Radiator   | 56      | 405-5962    | 1        | Baffle, Air – Discharge                         |
| 19      | 405-6003    | 2        | Box, Radiator Fill  | 57      | 128-0252    | 2        | Insulation, Foam                                |
| 20      | 405-5909    | 1        | Panel, Front – Radiator Housing   | 58      | 405-6001-02 | 2        | Fiberglass                                      |
| 21      | 405-5917    | 2        | Panel, End – Roof   | 59      | 405-5734    | 4        | Insulation, Door                                |
| 22      | 405-6109    | 1        | Fiberglass  | 60      | 405-6005    | 1        | Fiberglass                                      |
| 23      | 406-0831    | 14       | Hinge, Housing  | 61      | 405-6001-01 | 2        | Fiberglass                                      |
| 24      |             |          | Door, Housing   | 62      | 405-6000-03 | 2        | Fiberglass                                      |
|         | 405-5902    | 7        | Without Window  | 63      | 405-6000-02 | 2        | Fiberglass                                      |
|         | 405-5902    | 6        | With Window   | 64      | 405-5997    | 2        | Fiberglass                                      |
| 25      | 405-5903    | 1        | Door, Housing – With Window   | 65      | 405-5991-01 | 2        | Panel, Side – Discharge (Right Hand)            |
| 26      | 155-3238    | 3        | Cover, Exhaust  | 66      | 405-5988    | 2        | Panel, Bottom                                   |
| 27      | 130-4848    | –        | Insulation, Exhaust – Bulk (Order by the Foot – 10 Feet Required)             | 67      | 405-5991-02 | 2        | Panel, Side – Discharge (Left Hand)             |
| 28      | 526-0451    | 4        | Washer, Flat – Stainless Steel  | 68      | 405-5992    | 1        | Panel, Center                                   |
| 29      | 406-0918    | 7        | Latch, Door   | 69      | 405-5993    | 1        | Cover, Duct                                     |
| 30      | 406-0782    | 7        | Key, Replacement – Fits 406-0918 Latch  | 70      | 405-5994    | 2        | Retainer, Insulation                            |
| 31      | 098-4500    | 2        | Label, Prototype  | 71      | 405-6014    | 4        | Retainer, Insulation                            |
| 32      | 098-4730    | 1        | Label, Warning  | 72      | 405-6010    | 1        | Cover, Air Discharge Box (Top)                  |
| 33      | 098-5429    | 1        | Label, Coolant Fill   | 73      | 405-6044    | 4        | Retainer, Insulation                            |
| 34      | 821-6007-02 | 94       | Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)                            | 74      | 405-6000-07 | 1        | Fiberglass                                      |
| 35      | 405-5959    | 1        | Baffle, Recirculation   | 75      | 405-6132    | 1        | Retainer, Insulation                            |
| 36      | 818-0231-02 | 162      | Rivet, Pop (3/16")  | 76      | 405-6000-04 | 4        | Fiberglass                                      |
| 37      | 818-0237-01 | 105      | Rivet, Pop (1/8")   | 77      | 405-5989    | 1        | Cover, Air Discharge Box (Top)                  |
| 38      | 895-0363    | –        | Weatherstrip – Bulk (Order by the foot – 5 Feet Required) – Units With Window | 78      | 405-5990    | 1        | Cover, Air Discharge                            |
|         |             |          |   | 79      | 405-6013    | 1        | Retainer, Insulation                            |
|         |             |          |   | 80      | 405-6000-01 | 2        | Fiberglass                                      |

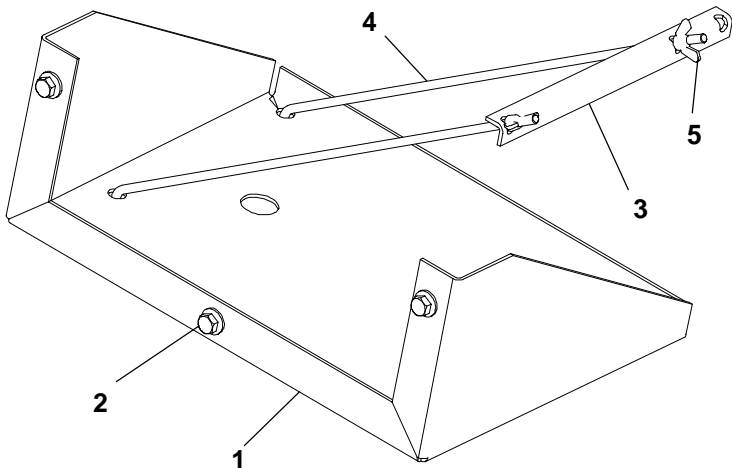
# F182 Enclosure



## F182 Enclosure

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION   | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION   |
|---------|-------------|----------|--|---------|-------------|----------|--|
| 1       | 405-5908    | 2        | Panel, Side – Radiator Housing                                 | 16      | 406-0918    | 7        | Latch, Door  |
| 2       | 405-5909    | 1        | Panel, Front – Radiator Housing                                |         | 406-0782    | 7        | Key, Replacement (fits Latch 406-0918)                             |
| 3       | 405-5926    | 1        | Roof   | 17      |             |          | Door, Housing  |
| 4       | 405-5744    | 4        | Post, Housing – Center   |         | 405-5903    | 1        | Sets With Control Window   |
| 5       | 405-5915    | 1        | Angle, Roof  |         | 405-5902    | 1        | Sets W/O Control Window  |
| 6       | 405-5916    | 2        | Post, Corner – Housing   | 18      | 895-0363    | –        | Weatherstrip – Window – Bulk (Order By The Foot – 5 Feet Required) |
| 7       | 130-4848    | –        | Insulation, Foam – Bulk (Order by the Foot – 10 Feet Required) |         |             |          |  |
| 8       | 406-0831    | 14       | Hinge, Door  | 19      | 319-2653    | 1        | Window, Control (If Equipped)                                      |
| 9       | 155-3238    | 3        | Cover, Exhaust   | 20      | 895-0382    | 14       | Bumper, Door   |
| 10      | 098-4730    | 1        | Label, Warning   | 21      | 405-5917    | 2        | Panel, End – Roof  |
| 11      | 098-5429    | 1        | Label, Coolant Fill  | 22      | 818-0237-01 | 6        | Rivet, Pop (1/8)   |
| 12      | 098-4500    | 2        | Label, Prototype Tested  | 23      | 128-0154-01 | 1        | Insulation, Foam   |
| 13      | 818-0231-02 | 98       | Rivet, Pop (3/16)  | 24      | 870-0504    | 2        | Nut, Captive Floating (M6 x 1.0)                                   |
| 14      | 821-6007-02 | 36       | Screw, Hex Head (M8 x 1.25 x 20)                               | 25      | 821-6006-01 | 2        | Screw, Hex Head (M6 x 1.0 x 16)                                    |
| 15      | 405-5832    | 6        | Door, Housing  | 26      | 130-4848-01 | –        | Insulation, Foam – Bulk (Order by the Foot – 3 Feet Required)      |

Battery Tray

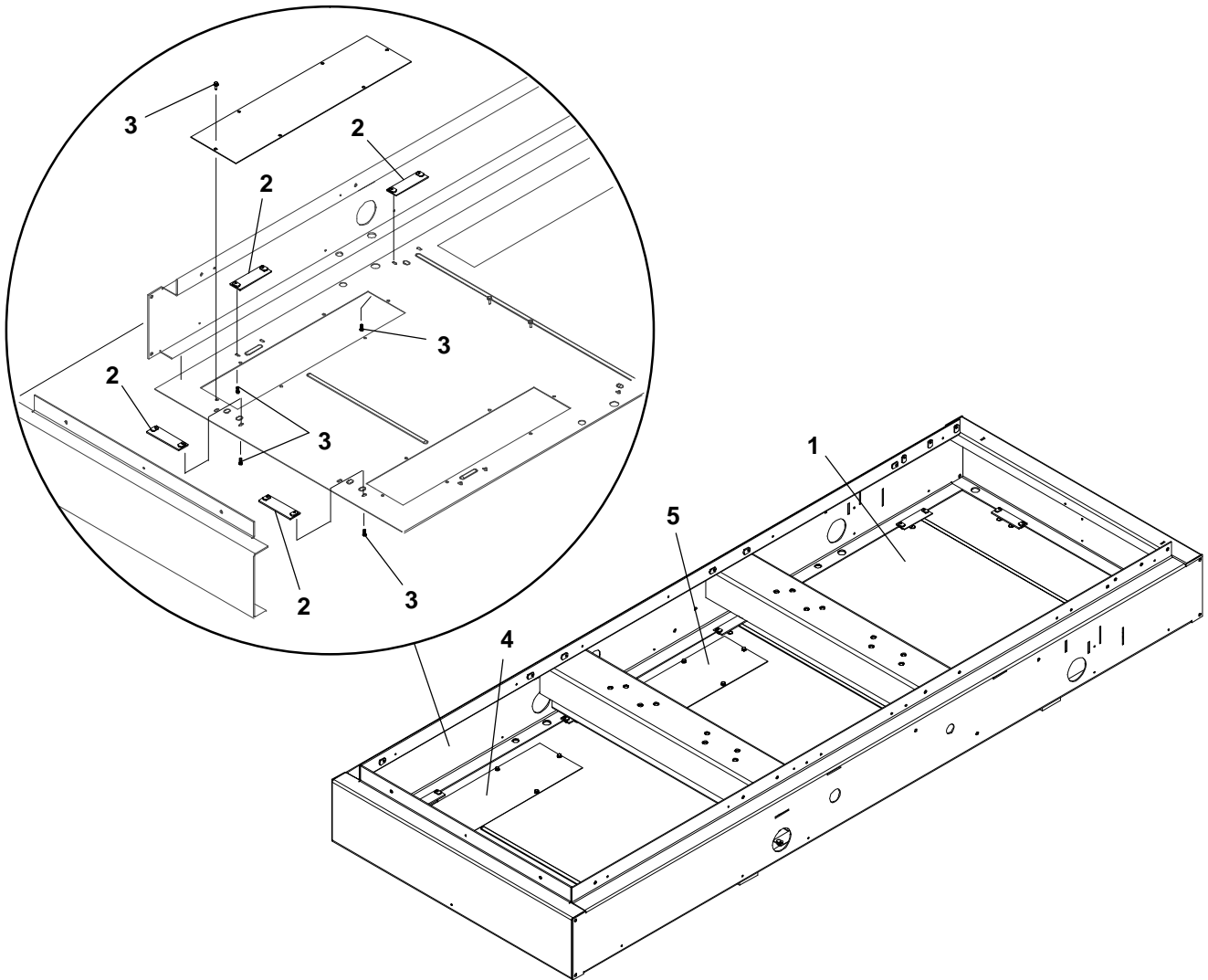


F065

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                 | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION         |
|---------|-------------|----------|----------------------------------|---------|-------------|----------|--------------------------|
| 1       | 403-4267    | 1        | Tray, Battery                    | 3       | 416-1033    | 1        | Hold Down, Battery       |
| 2       | 821-6007-02 | 3        | Screw, Hex Head (M8 x 1.25 x 20) | 4       | 416-0993-02 | 2        | Rod, Hold Down – Battery |
|         |             |          |                                  | 5       | 865-0030    | 2        | Nut, Wing (M6)           |

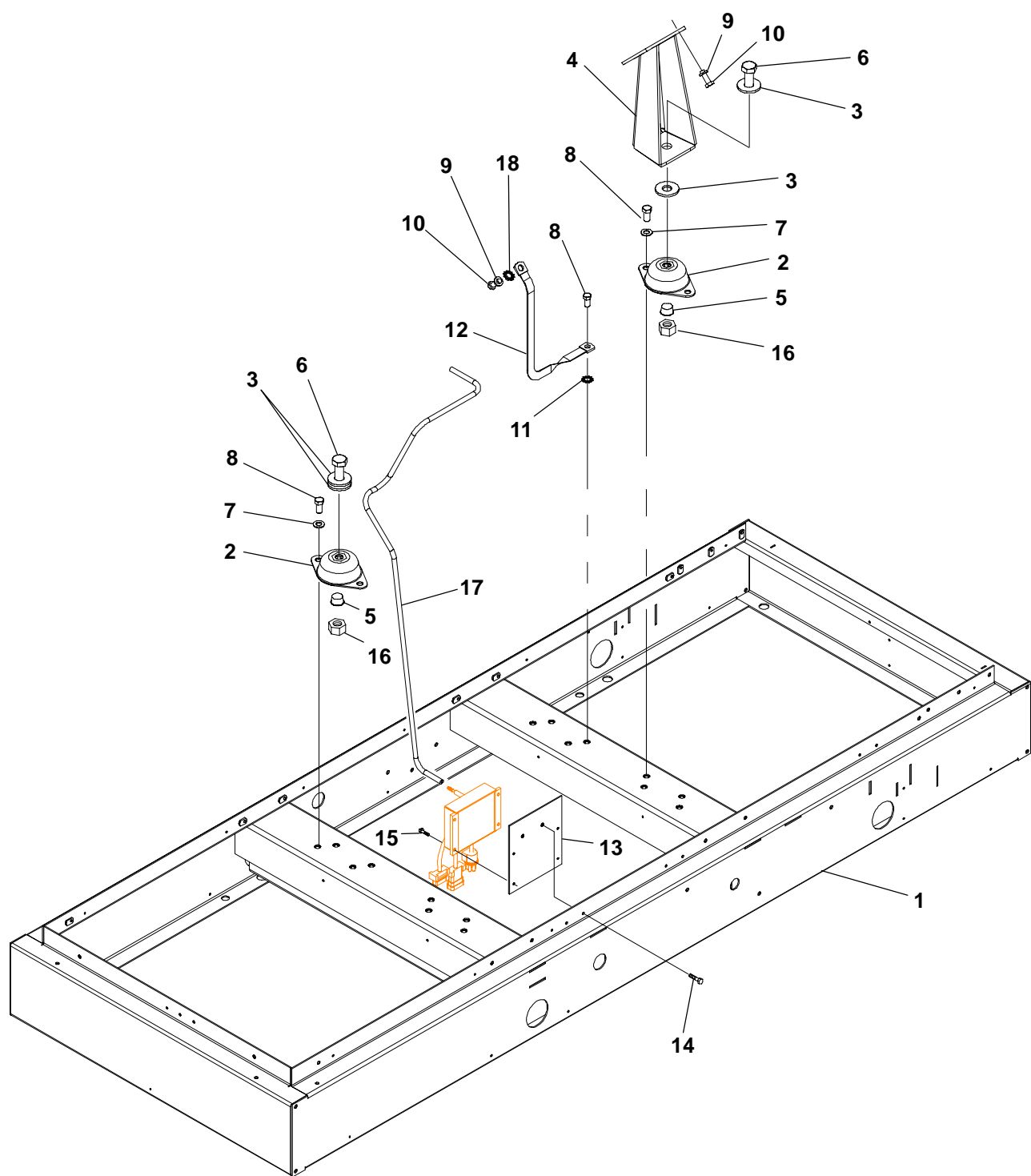


## Skid Pan



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                  | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                          |
|---------|-------------|----------|---|---------|----------|----------|---|
| 1       | 403-4287    |          | Pan, Skid   | 4       | 403-4215 | 2        | Cover, Stub-Up – End (7-5/32" x 28")      |
| 2       | 403-4110    | 12       | Clamp   | 5       | 403-4116 | 1        | Cover, Stub-Up – Side (7-5/32" x 21-3/8") |
| 3       | 821-6002-03 | 42       | Screw, Self-Locking – Hex Washer Head (M6 x 16mm) |         |          |          |   |

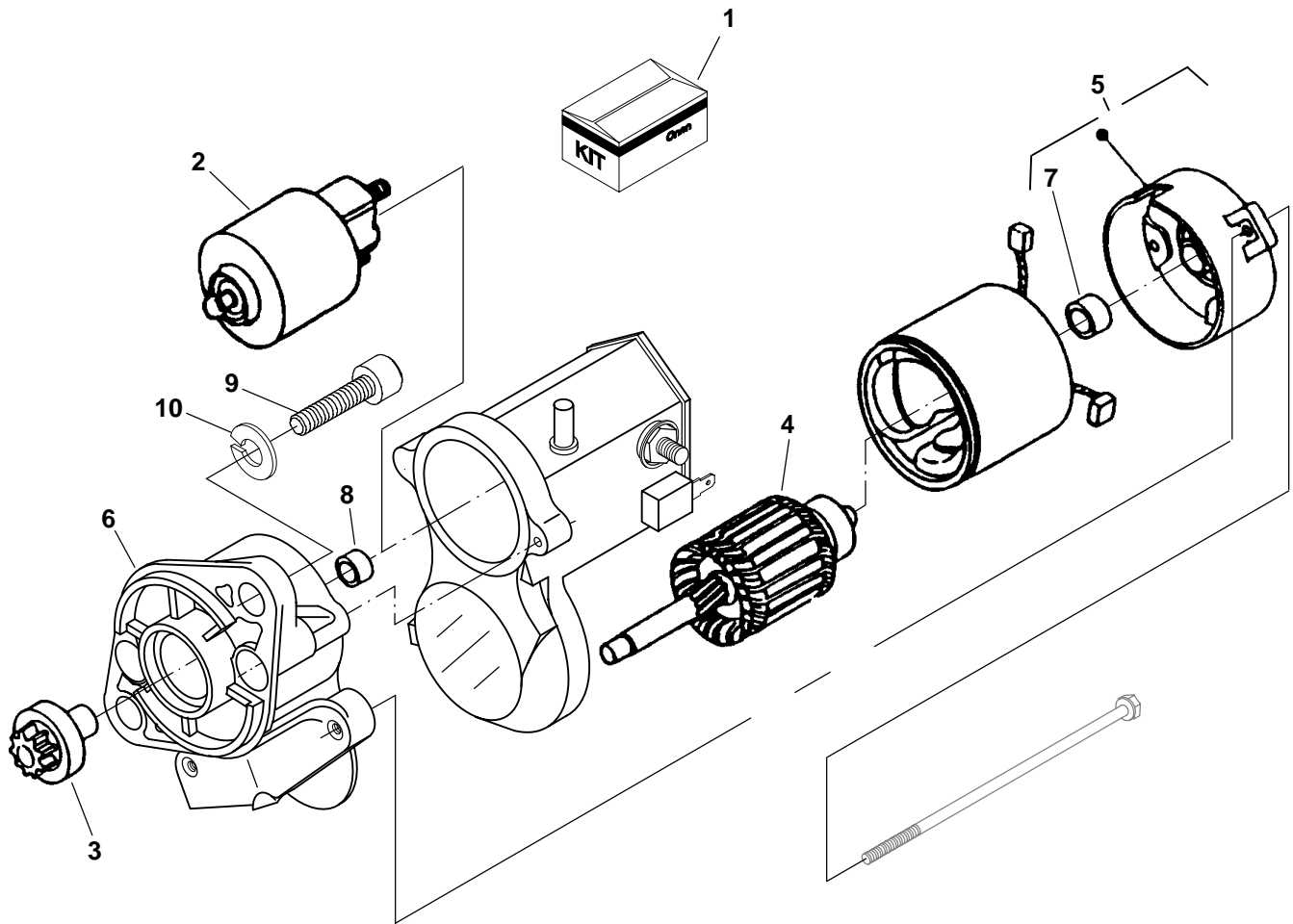
# Skid



## Skid

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                       | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION  |
|---------|-------------|----------|--|---------|-------------|----------|---|
| 1       | 403-4485-02 | 1        | Skid                                   | 11      | 856-0013    | 1        | Washer, Lock – W/EIT (1/2)                                |
| 2       | 402-0644    | 4        | Cushion, Vibration                     | 12      | 337-0090    | 1        | Strap, Electrical   |
| 3       | 526-0238-01 | 8        | Washer, Flat (3/4)                     | 13      | 403-4450-02 | 1        | Bracket, Ignition Module                                  |
| 4       | 403-4425-02 | 2        | Bracket, Mounting – Engine             | 14      | 821-6006-01 | 2        | Screw, Hex Head (M6 x 1.0 x 16)                           |
| 5       | 517-0094    | 4        | Plug, Hole                             | 15      | 815-0793-03 | 4        | Screw, Hex – Flange Head – Thread Forming (M5 x 0.8 x 12) |
| 6       | 800-0607    | 4        | Screw, Cap – Hex Head (3/4-10 x 2)     | 16      | 862-0044    | 4        | Nut, Hex (3/4-10)   |
| 7       | 526-0433    | 8        | Washer, Hardened                       | 17      | 503-2179    | 1        | Hose, Vacuum  |
| 8       | 800-2543-02 | 9        | Screw, Cap – Hex Head (M12 x 25)       | 18      | 856-0010    | 1        | Washer, Lock – W/EIT (3/8)                                |
| 9       | 526-0174    | 9        | Washer, Flat                           |         |             |          |   |
| 10      | 800-2530-03 | 9        | Screw, Cap – Hex Head (M10 x 1.5 x 25) |         |             |          |   |

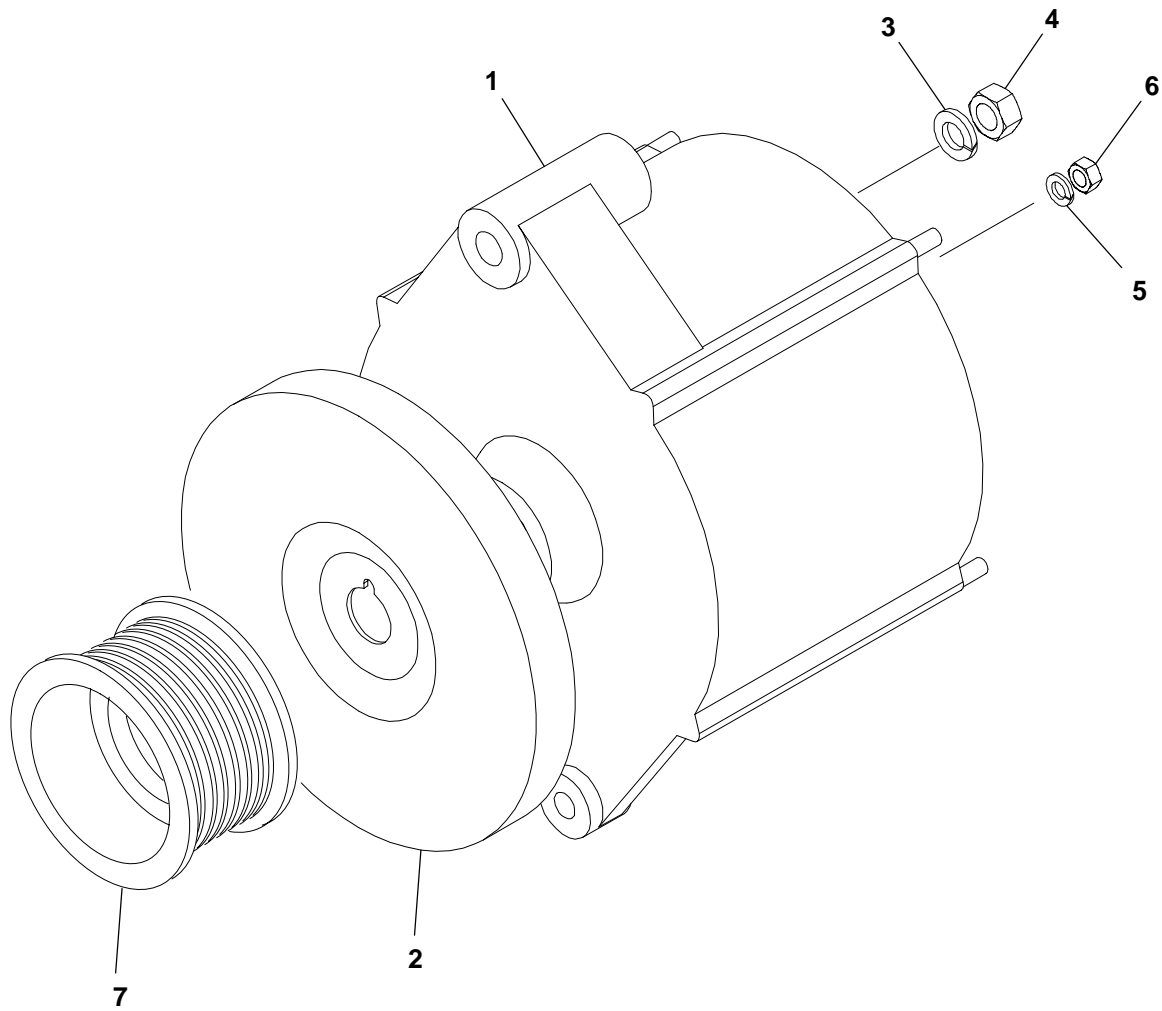
## Starter Components



CP01

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION      | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                               |
|---------|----------|----------|-----------------------|---------|----------|----------|--|
|         | 191-2213 | 1        | Starter (1.4kW)       | 6       | 191-2220 | 1        | Housing  |
| 1       | 191-2215 | 1        | Kit, Starter Brush    | 7       | 191-2221 | 1        | Bearing, Commutator End                        |
| 2       | 191-2216 | 1        | Switch                | 8       | 191-2222 | 1        | Bearing, Pinion End                            |
| 3       | 191-2217 | 1        | Clutch                | 9       | 800-2088 | 2        | Screw, Cap – Socket Head<br>(M10 x 1.5 x 35mm) |
| 4       | 191-2218 | 1        | Armature              | 10      | 850-2010 | 2        | Washer, Lock (M10)                             |
| 5       | 191-2219 | 1        | Frame, Commutator End |         |          |          |  |

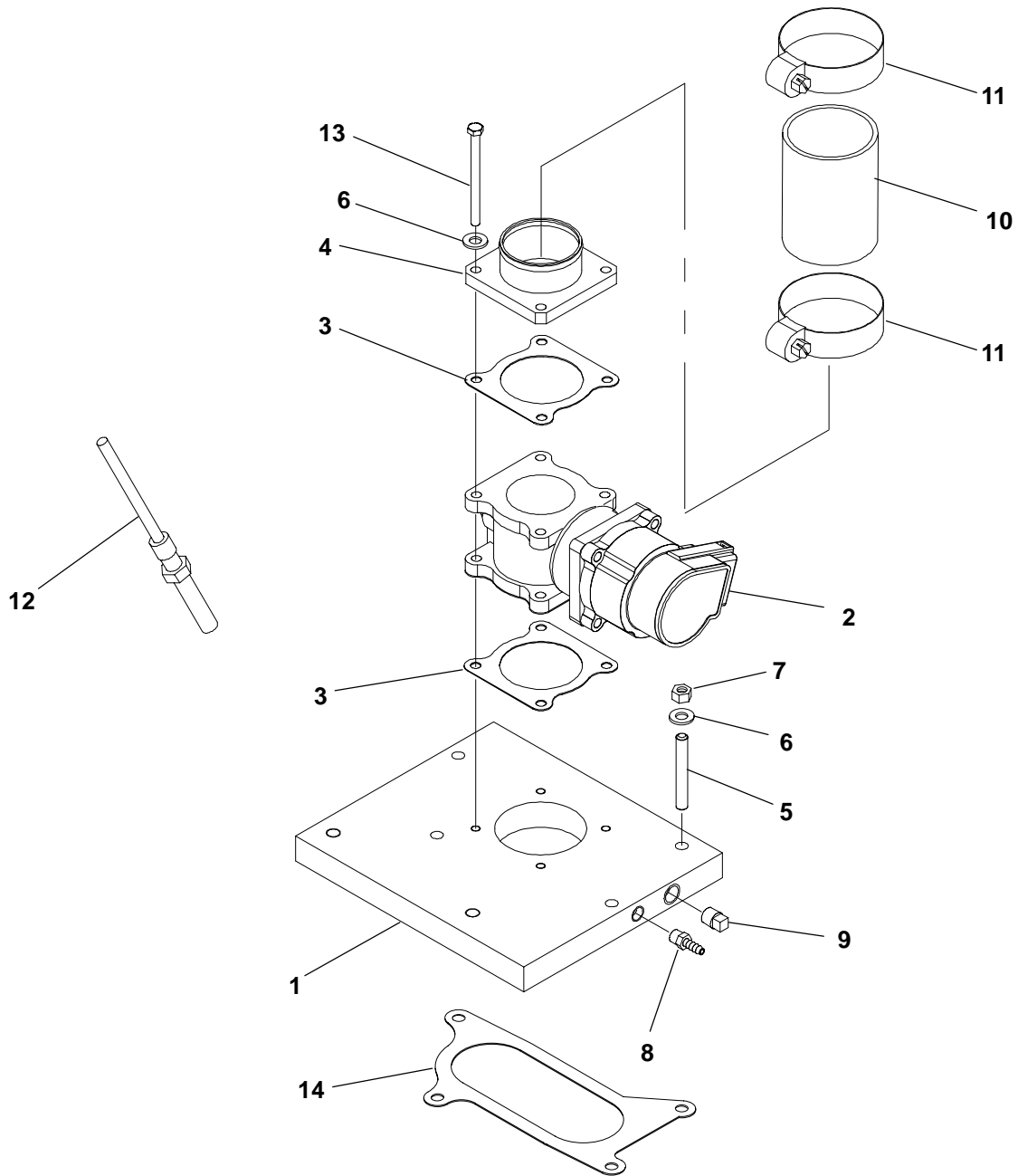
## Alternator



CP01

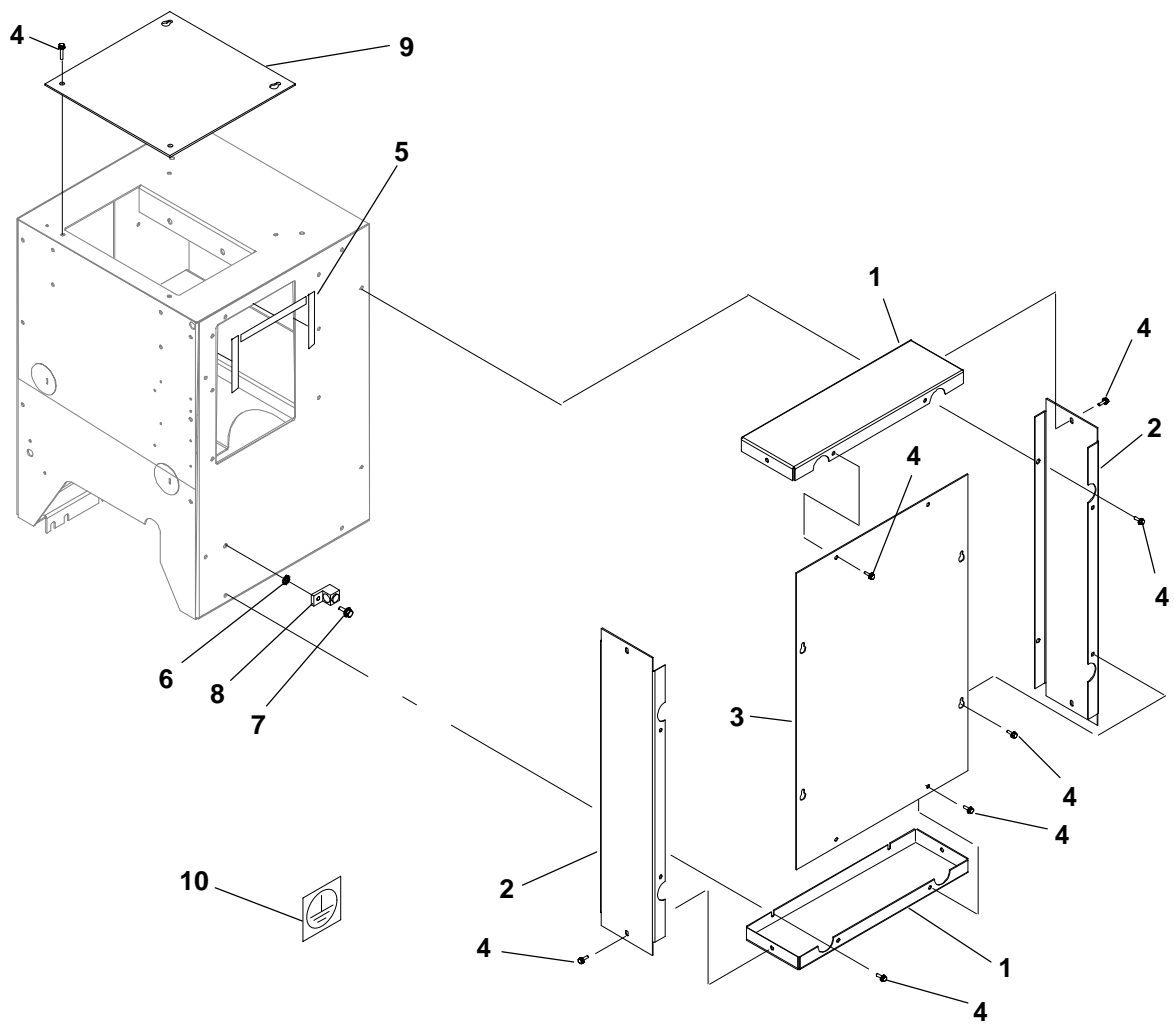
| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION     | REF NO. | PART NO. | QTY USED | PART DESCRIPTION    |
|---------|-------------|----------|----------------------|---------|----------|----------|---------------------|
| 1       | 191-2209-01 | 1        | Alternator           | 5       | 850-2005 | 2        | Washer, Lock (M5)   |
| 2       | 191-1981    | 1        | Fan, Alternator      | 6       | 860-2006 | 2        | Nut, Hex (M5 x 0.8) |
| 3       | 850-2008    | 1        | Washer, Lock (M8)    | 7       | 191-2284 | 1        | Pulley, Alternator  |
| 4       | 860-2008    | 1        | Nut, Hex (M8 x 1.25) |         |          |          |                     |

## Governor



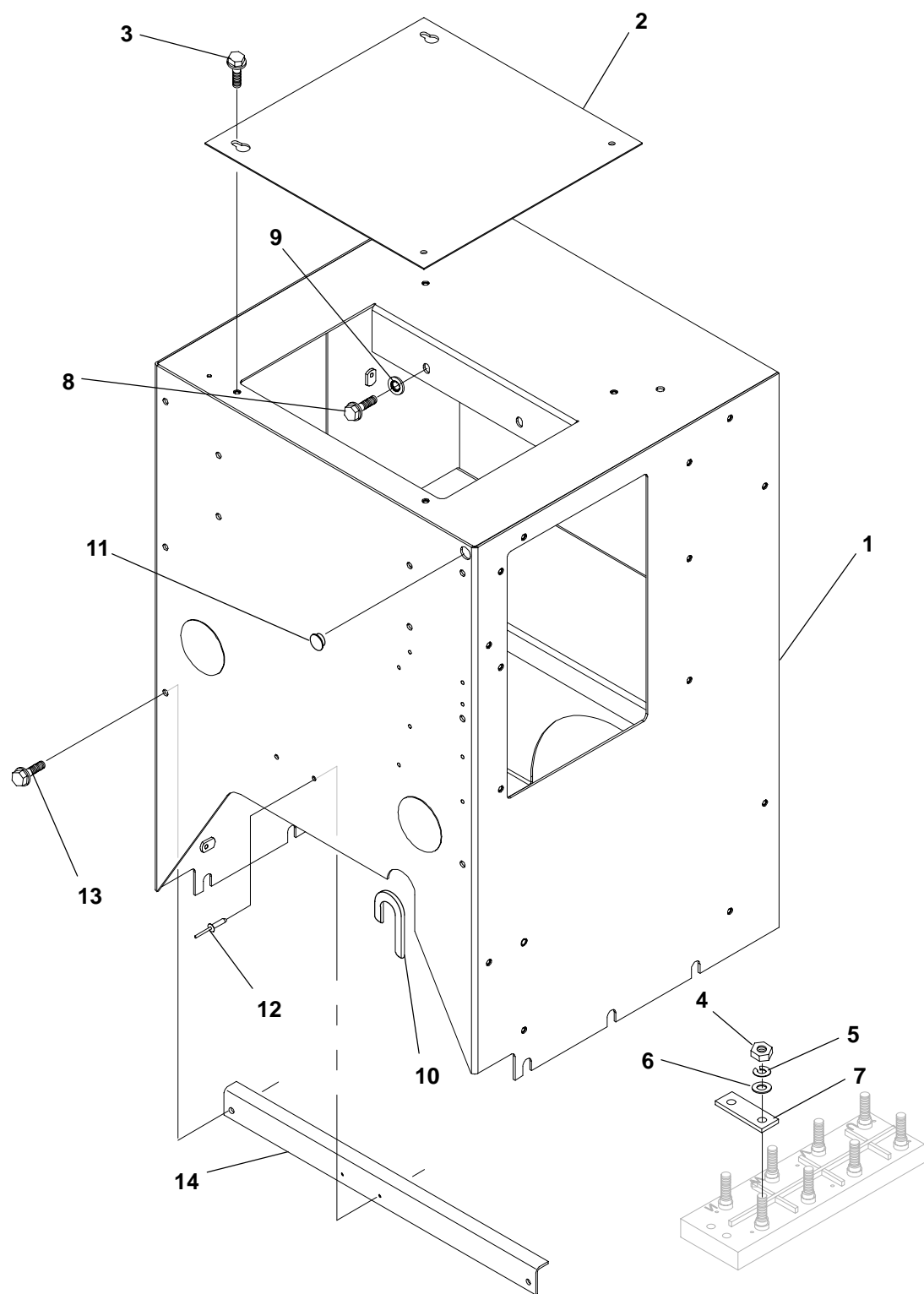
| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION       | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                    |
|---------|-------------|----------|------------------------|---------|-------------|----------|-------------------------------------|
| 1       | 145-0811    | 1        | Plate, Throttle Body   | 8       | 502-1299    | 1        | Connector, Hose (1/8 x 3/16)        |
| 2       |             |          | Governor               | 9       | 505-0054    | 1        | Plug, Square Head                   |
|         | 150-2769-03 | 1        | 60 Hz - GGHG, GGHH     | 10      | 127-0443    | 1        | Hose, Turbocharger                  |
|         | 150-2769-04 | 1        | 50 Hz - GGHH           | 11      | 503-1870-03 | 2        | Clamp, Hose                         |
| 3       | 145-0813    | 2        | Gasket, Throttle Body  | 12      | 150-2651    | 1        | Pick-Up, Magnetic                   |
| 4       | 145-0812    | 1        | Adapter, Throttle Body | 13      | 800-6283    | 4        | Screw, Cap - Hex Head (M6 x 1 x 80) |
| 5       | 520-1024    | 4        | Stud (M6)              | 14      | 145-0786    | 1        | Gasket, Throttle Body               |
| 6       | 526-2080    | 8        | Washer, Flat (M6)      |         |             |          |                                     |
| 7       | 862-0026-54 | 4        | Nut, Hex (M6)          |         |             |          |                                     |

# Entrance Box



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                      | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION   |
|---------|-------------|----------|---|---------|-------------|----------|--|
| 1       | 319-3072    | 2        | Panel, Box – Top and Bottom                           | 6       | 856-0008    | 1        | Washer, Lock – EIT (5/16")                               |
| 2       | 319-2978    | 2        | Panel, Box – Side                                     | 7       | 821-6003-02 | 1        | Screw, Self-Locking – Hex Washer Head (M8 x 1.25 x 20mm) |
| 3       | 319-2979-02 | 1        | Cover, Entrance Box                                   | 8       | 332-1473    | 1        | Lug, Solderless  |
| 4       | 821-6002-03 | 24       | Screw, Self-Locking – Hex Washer Head (M6 x 1 x 16mm) | 9       | 319-2996    | 1        | Cover, Control Housing                                   |
| 5       | 508-0239    | –        | Edging – Bulk (Order By The Foot – 2 Feet Required)   | 10      | 098-6537    | 1        | Label, Ground  |

Control Housing

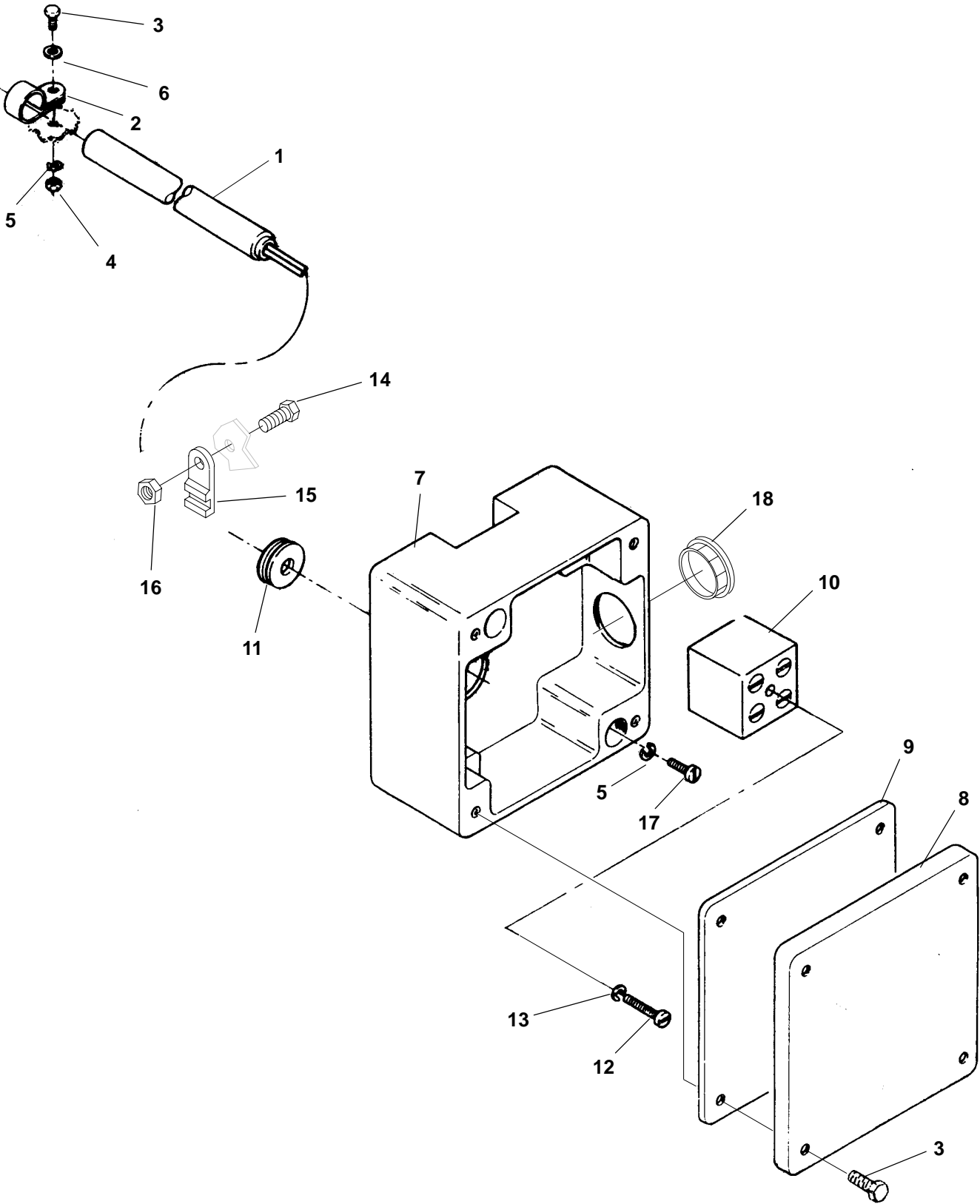




## Control Housing

| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION                          | REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION                                     |
|------------|-------------|-------------|--|------------|-------------|-------------|---|
| 1          | 319-2967    | 1           | Housing, Control                             | 9          | 856-0008    | 1           | Washer, Lock – ET (5/16)                                |
| 2          | 319-2996    | 1           | Cover, Housing – Control                     | 10         | 508-0305-02 | –           | Edging – Bulk (Order by the<br>Foot – 1 Foot Required)  |
| 3          | 821-6002-03 | 4           | Screw, Hex Head (M6 x 16)                    | 11         | 517-0135    | 1           | Plug, Hole  |
| 4          | 860-2009    | 8           | Nut, Hex (M10 x 1.5)                         | 12         | 818-0231-02 | 2           | Rivet, Pop  |
| 5          | 850-2010    | 8           | Washer, Lock (M10)                           | 13         | 818-5003-01 | 2           | Screw, Self-Locking – Hex<br>Washer Head (5/16 x 0.50") |
| 6          | 526-2120    | 8           | Washer, Flat (M10)                           | 14         | 319-4435-02 | 1           | Brace, Control Housing                                  |
| 7          | 332-2987    | 4           | Link, Terminal                               |            |             |             |   |
| 8          | 821-0014    | 4           | Screw, Locking – Hex Head<br>(5/16-18 x .50) |            |             |             |   |

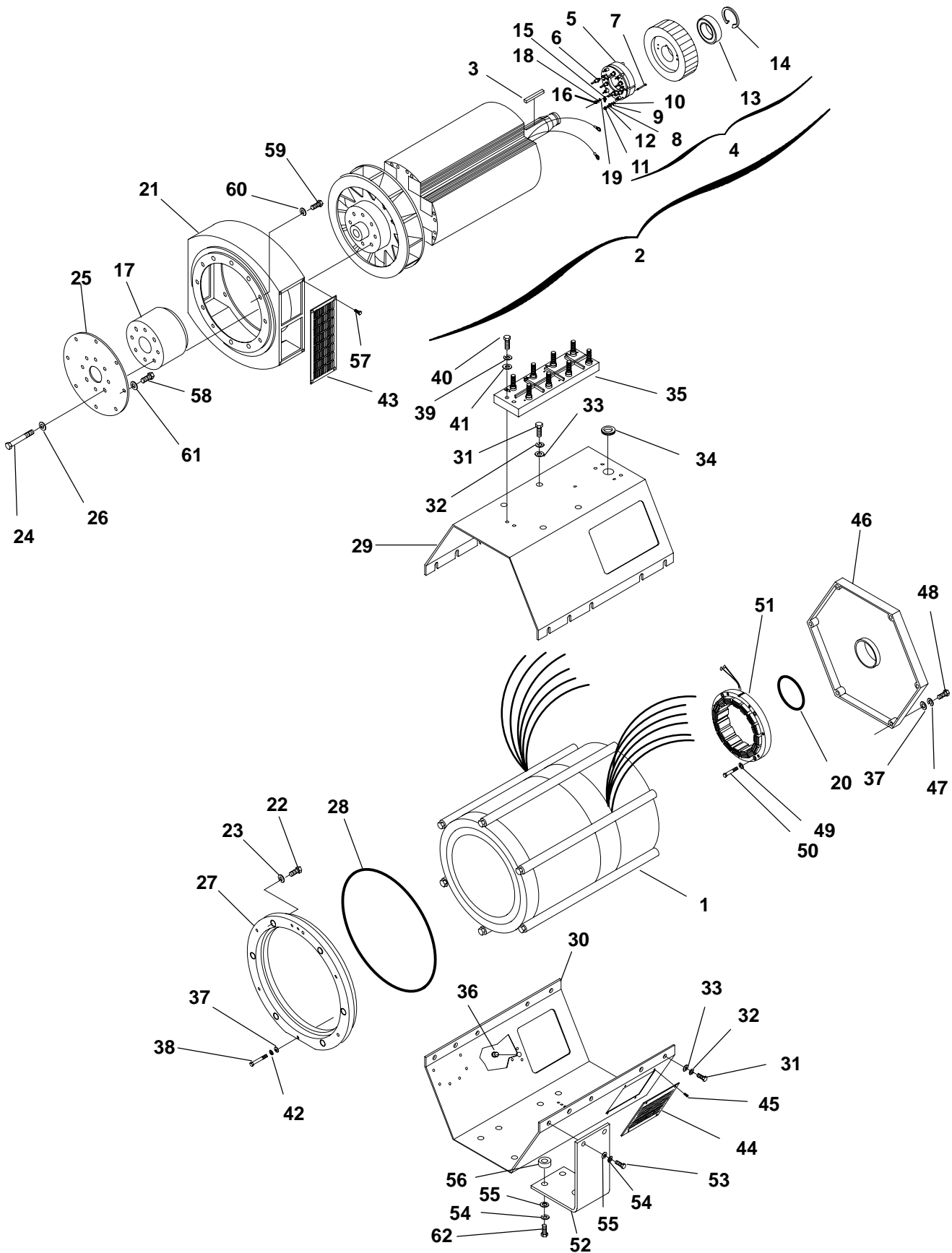
Generator Heater



## Generator Heater

| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION                      | REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION                      |
|------------|-------------|-------------|--|------------|-------------|-------------|--|
| 1          |             |             | Cartridge, Heater (100 Watt)             | 10         | 332-3023    | 1           | Block, Terminal                          |
|            | 333-0438-07 | 1           | 120 Volt                                 | 11         | 508-0228    | 1           | Grommet                                  |
|            | 333-0438-08 | 1           | 240 Volt                                 | 12         | 822-3047    | 1           | Screw, Machine – Pan Head<br>(M3 x 20mm) |
| 2          | 332-3024-11 | 2           | Clamp, Loop                              | 13         | 850-2003    | 1           | Washer, Lock – Spring (M3)               |
| 3          | 822-3075    | 6           | Screw, Machine – Pan Head<br>(M4 x 16mm) | 14         | 800-3034    | 1           | Screw, Cap – Hex Head<br>(M4 x 12mm)     |
| 4          | 860-2005    | 2           | Nut, Hex (M4)                            | 15         | 332-3228    | 1           | Mount, Cable Tie                         |
| 5          | 850-2004    | 4           | Washer, Lock – Spring (M4)               | 16         | 870-2064-01 | 1           | Nut, Hex (M4)                            |
| 6          | 526-2050    | 2           | Washer, Flat (M4)                        | 17         | 815-0792-04 | 2           | Screw, Pan Head (M4 x 12mm)              |
| 7          | 330-0142    | 1           | Box, Terminal                            | 18         | 517-0021    | 1           | Plug, Dot Button                         |
| 8          | 330-0141-03 | 1           | Cover, Terminal Box                      |            |             |             |  |
| 9          | 330-0141-04 | 1           | Gasket, Terminal Box                     |            |             |             |  |

# Generator

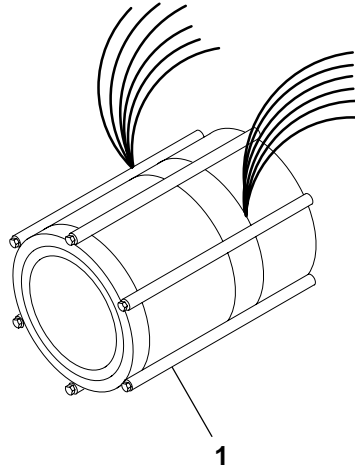


## Generator

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION  | REF NO.     | PART NO.    | QTY USED | PART DESCRIPTION                                  |
|---------|-------------|----------|---|-------------|-------------|----------|---|
| 1       | –           | 1        | Stator, Generator (See Separate Pages for Part Numbers)   | 30          |             |          | Cover, Stator – Bottom                            |
| 2       |             |          | Rotor Assembly, Generator (Includes Parts Marked *)       | 232–3820–01 | 1           |          | 165, 190mm Stack Length                           |
|         | 201–3497–01 | 1        | 165mm Stack Length  | 232–3820–02 | 1           |          | 130, 285mm Stack Length                           |
|         | 201–3497–02 | 1        | 190mm Stack Length  | 232–3820–03 | 1           |          | 335mm Stack Length                                |
|         | 201–3497–03 | 1        | 230mm Stack Length  | 31          | 800–3017–54 | 10       | Screw, Cap – Hex Head (M12 x 30mm)                |
|         | 201–3497–04 | 1        | 285mm Stack Length  | 32          | 850–0114–56 | 10       | Washer, Lock – Spring (M12)                       |
|         | 201–3497–05 | 1        | 335mm Stack Length  | 33          | 526–0399–64 | 10       | Washer, Flat (M12)                                |
| 3       |             |          | *Key, Exciter Rotor                                       | 34          | 508–1057    | 1        | Grommet   |
|         | 515–0297–01 | 1        | 160, 190mm Stack Length                                   | 35          | 232–3421    | 1        | Block, Terminal                                   |
|         | 515–0297–02 | 1        | 230, 285mm Stack Length                                   | 36          | 517–0135    | 1        | Plug, Hole  |
|         | 515–0297–03 | 1        | 335mm Stack Length  | 37          | 526–0423    | 12       | Washer, Flat (13/32" ID x 1–1/4" OD x 1/4" Thk)   |
| 4       |             |          | *Rotor Assembly, Exciter (Includes Parts Marked #)        | 38          | 800–3017–38 | 6        | Screw, Cap – Hex Head (M10 x 30mm)                |
|         | 201–3434–02 | 1        | 165, 190mm Stack Length                                   | 39          | 850–2008    | 3        | Washer, Lock – Spring (M8)                        |
|         | 201–3434–03 | 1        | 230, 285, 335mm Stack Length                              | 40          | 800–2060    | 3        | Screw, Cap – Hex Head (M8 x 35mm)                 |
| 5       |             |          | *#Rectifier Assembly (Includes Parts Marked +)            | 41          | 526–2100    | 3        | Washer, Flat (M8)                                 |
|         | 357–0091    | 1        | Forward (With Positive Diode)                             | 42          | 850–0114–55 | 6        | Washer, Lock – Spring (M10)                       |
|         | 357–0092    | 1        | Reverse (With Negative Diode)                             | 43          | 234–0867    | 2        | Guard, Fan – Generator                            |
| 6       |             |          | *#+Diode  | 44          | 234–0879    | 2        | Screen, Air Inlet                                 |
|         | 358–0135–01 | 3        | Positive  | 45          | 821–6001–02 | 8        | Screw, Self–Locking – Hex Washer Head (M5 x 12mm) |
|         | 358–0135–02 | 3        | Negative  | 46          | 211–0423    | 1        | Bell, End   |
| 7       | 800–3009    | 6        | *#+Screw, Cap – Hex Head (M4 x 35mm) (CR1,2,3,4,5,6)      | 47          | 850–0114–55 | 6        | Washer, Lock – Spring (M10)                       |
| 8       | 860–2005    | 6        | *#+Nut, Hex (M4)  | 48          | 800–3017–38 | 6        | Screw, Cap – Hex Head (M10 x 30mm)                |
| 9       | 850–2004    | 6        | *#+Washer, Lock – Spring (M4)                             | 49          | 850–2006    | 4        | Washer, Lock – Spring (M6)                        |
| 10      | 526–2050    | 6        | *#+Washer, Flat (M4)                                      | 50          | 800–2042    | 4        | Screw, Cap – Hex Head (M6)                        |
| 11      | 870–2064–01 | 6        | *#Nut, Locking – Nylon (M4)                               |             | 800–2046    | 4        | 165, 190mm Stack Length                           |
| 12      | 526–2050    | 6        | *#Washer, Flat (M4)                                       |             |             |          | 230, 285, 335mm Stack Length                      |
| 13      | 510–0164    | 1        | *Bearing, Ball  | 51          | 220–4293–05 | 1        | Stator, Exciter                                   |
| 14      | 518–0083    | 1        | *Ring, Retaining  |             | 220–4293–06 | 1        | 165, 190mm Stack Length                           |
| 15      | 304–0807    | 1        | *Varistor   |             |             |          | 230, 285, 335mm Stack Length                      |
| 16      | 860–2006    | 2        | *Nut, Hex (M5)  | 52          | 232–3925    | 2        | Bracket, Mounting – Generator Foot                |
| 17      | 232–3695    | 1        | *Hub, Drive   | 53          | 800–2543–05 | 4        | Screw, Cap – Hex Head (M12 x 40mm)                |
| 18      | 850–2005    | 2        | *Washer, Lock – Spring (M5)                               | 54          | 850–0117    | 8        | Washer, Lock – Spring (M12)                       |
| 19      | 526–2060    | 2        | *Washer, Flat (M5)  | 55          | 526–0433    | 8        | Washer, Flat (M12)                                |
| 20      | 509–0266–02 | 1        | O-Ring  | 56          | 232–3730–04 | 4        | Spacer, Mounting Foot                             |
| 21      | 231–0317    | 1        | Adapter, Generator  | 57          | 821–6001–01 | 8        | Screw, Self–Locking – Hex Washer Head (M5 x 10mm) |
| 22      |             |          | Screw, Cap – Hex Head                                     | 58          | 805–0015    | 8        | Bolt, Place (3/8–16 x .75")                       |
|         | 800–3017–42 | 5        | M10 x 50mm  | 59          | 800–2088    | 12       | Screw, Cap – Hex Head (M10 x 35mm)                |
|         | 800–3017–44 | 1        | M10 x 60mm (12 O'Clock Position)                          | 60          | 850–2010    | 12       | Washer, Lock – Spring (M10)                       |
| 23      | 850–0114–55 | 6        | Washer, Lock – Spring (M10)                               | 61          | 526–0174    | 8        | Washer, Flat (3/8")                               |
| 24      | 720–1119    | 8        | Screw, Cap – Hex Head (M16 x 40mm)                        | 62          | 800–2543–05 | 4        | Screw, Cap – Hex Head (M12 x 40mm)                |
| 25      | 232–3699    | 3        | Disc, Drive – Generator                                   |             |             |          |   |
| 26      | 526–0259    | 8        | Washer, Flat (5/8") Hardened                              |             |             |          |   |
| 27      | 231–0319    | 1        | Adapter, Generator Stator                                 |             |             |          |   |
| 28      | 508–0139    | –        | Seal, Edging – Bulk (Order by the Foot – 3 Feet Required) |             |             |          |   |
| 29      |             |          | Cover, Stator – Top                                       |             |             |          |   |
|         | 234–0937–01 | 1        | 165, 190mm Stack Length                                   |             |             |          |   |
|         | 234–0937–02 | 1        | 130, 285mm Stack Length                                   |             |             |          |   |
|         | 234–0937–03 | 1        | 335mm Stack Length  |             |             |          |   |

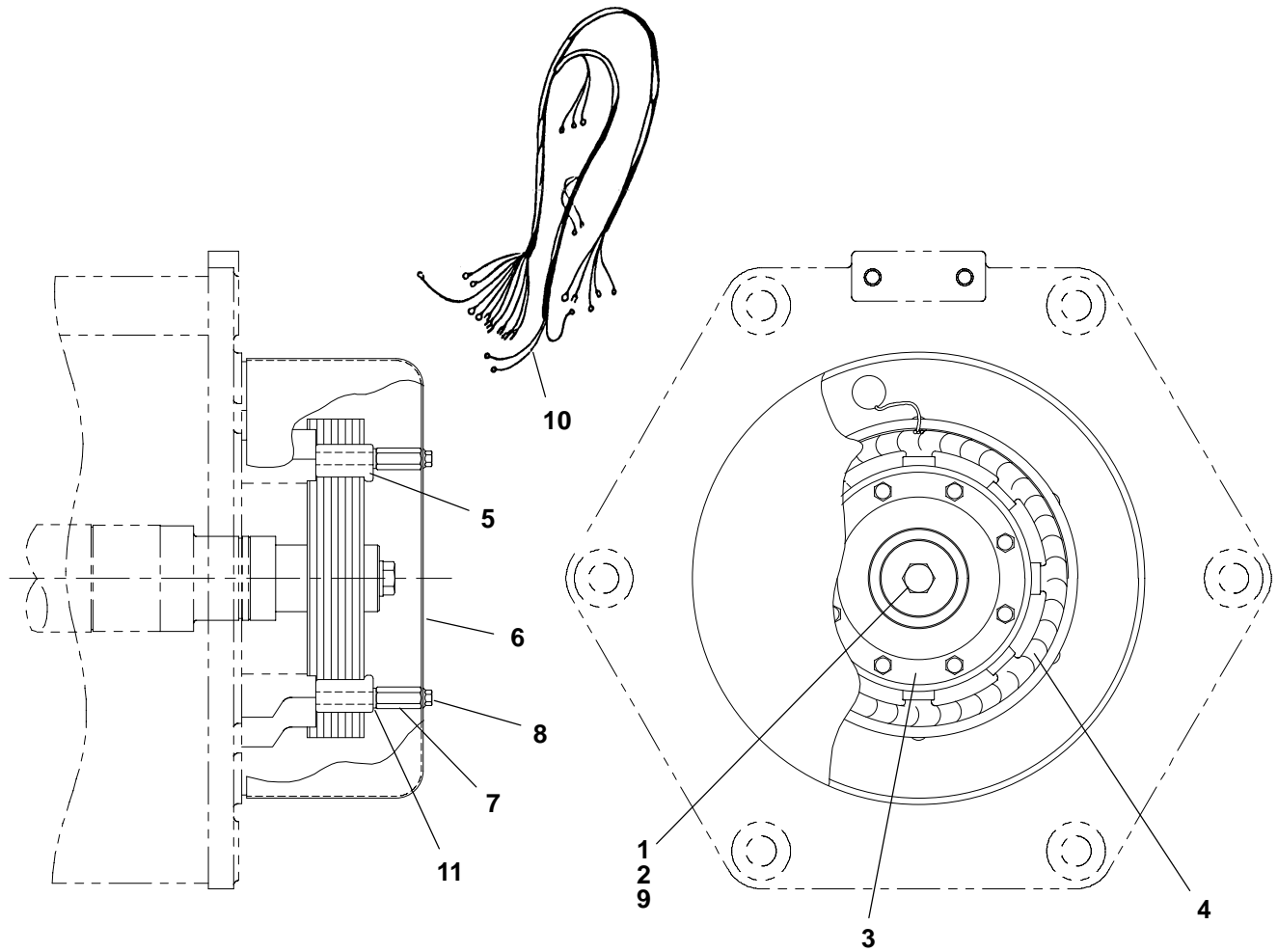
\* – Parts Included in Generator Rotor Assemblies  
# – Parts Included in Exciter Rotor Assemblies  
+ – Parts Included in Rectifier Assemblies

## Generator Stator



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                    |
|---------|-------------|----------|-------------------------------------|
| 1       |             |          | Stator, Generator                   |
|         |             |          | <b>GGHG</b>                         |
|         | 220-4448-08 | 1        | 190mm Stack Length, Winding Code 6  |
|         | 220-4448-09 | 1        | 230mm Stack Length, Winding Code 6  |
|         | 220-4448-13 | 1        | 165mm Stack Length, Winding Code 11 |
|         | 220-4448-14 | 1        | 190mm Stack Length, Winding Code 11 |
|         | 220-4448-15 | 1        | 230mm Stack Length, Winding Code 11 |
|         | 220-4448-16 | 1        | 285mm Stack Length, Winding Code 11 |
|         | 220-4448-19 | 1        | 165mm Stack Length, Winding Code 14 |
|         | 220-4448-31 | 1        | 165mm Stack Length, Winding Code 17 |
|         |             |          | <b>GGHH</b>                         |
|         | 220-4448-09 | 1        | 230mm Stack Length, Winding Code 6  |
|         | 220-4448-10 | 1        | 285mm Stack Length, Winding Code 6  |
|         | 220-4448-13 | 1        | 165mm Stack Length, Winding Code 11 |
|         | 220-4448-14 | 1        | 190mm Stack Length, Winding Code 11 |
|         | 220-4448-15 | 1        | 230mm Stack Length, Winding Code 11 |
|         | 220-4448-16 | 1        | 285mm Stack Length, Winding Code 11 |
|         | 220-4448-17 | 1        | 335mm Stack Length, Winding Code 11 |
|         | 220-4448-19 | 1        | 165mm Stack Length, Winding Code 14 |
|         | 220-4448-20 | 1        | 190mm Stack Length, Winding Code 14 |
|         | 220-4448-21 | 1        | 230mm Stack Length, Winding Code 14 |
|         | 220-4448-31 | 1        | 165mm Stack Length, Winding Code 17 |
|         | 220-4448-32 | 1        | 190mm Stack Length, Winding Code 17 |

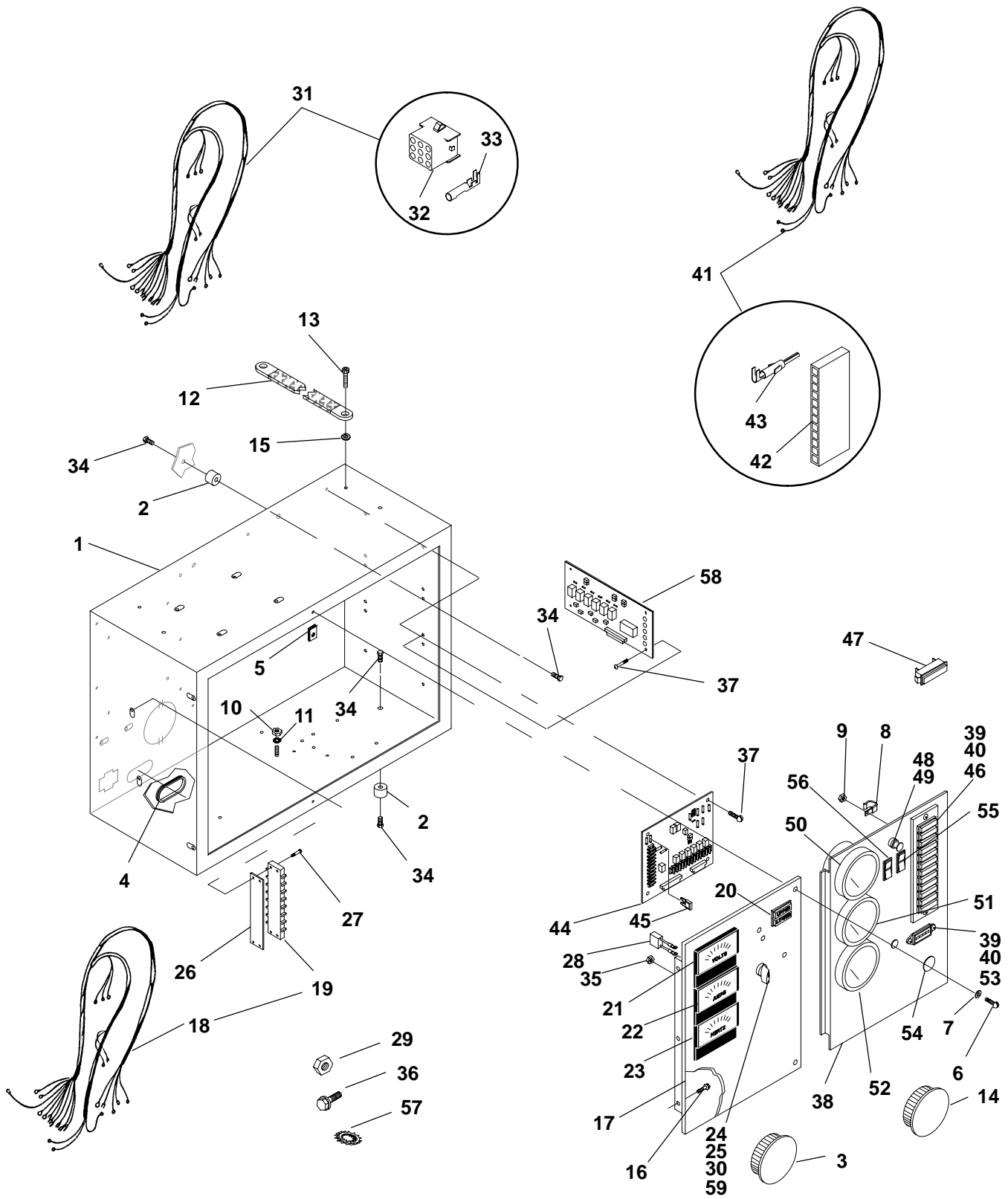
## Permanent Magnet Generator (PMG)



B184

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

# Detector Control

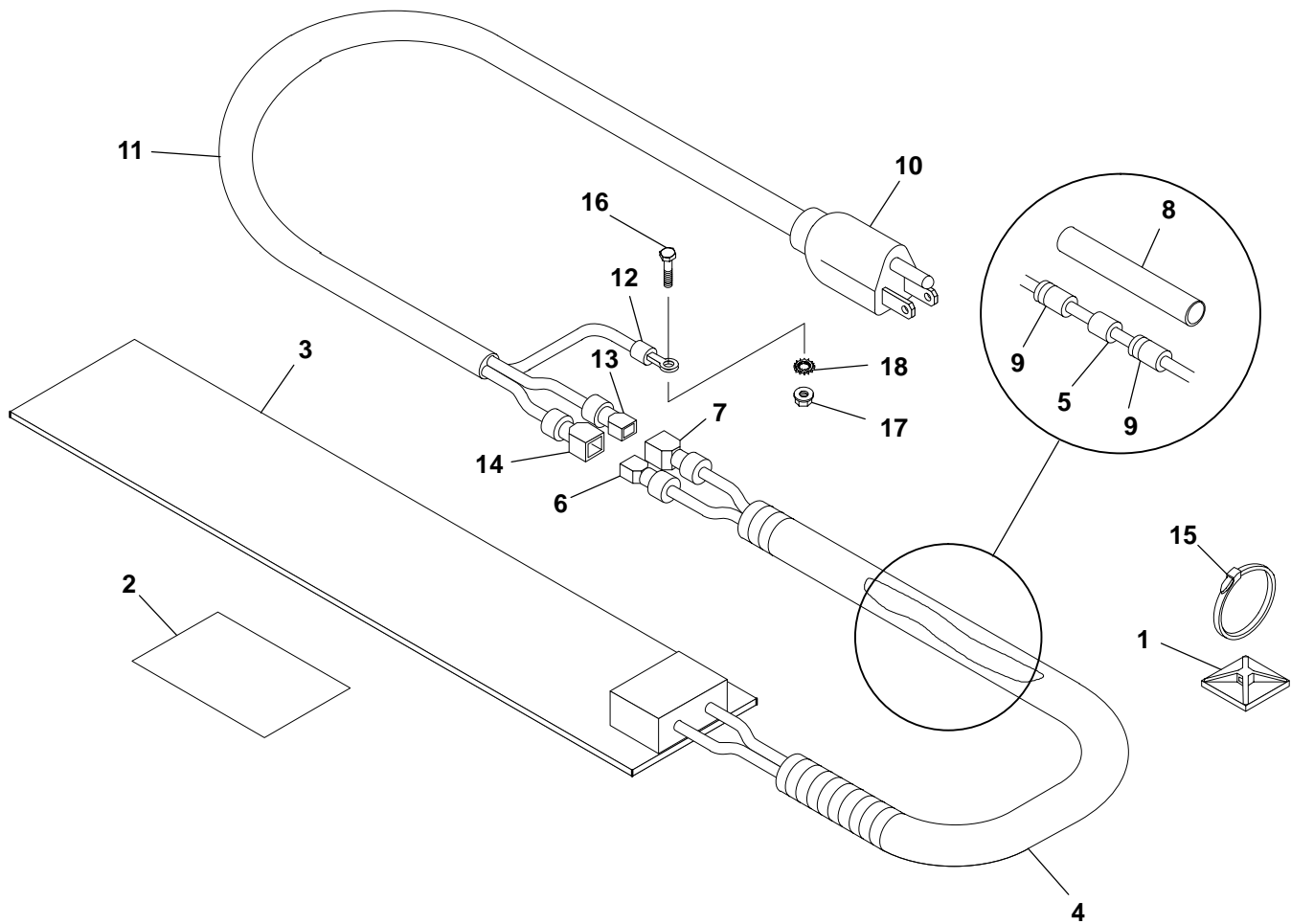




## Detector Control

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION   | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION  |
|---------|-------------|----------|--|---------|-------------|----------|---|
| 1       | 319-3030    | 1        | Box, Control   | 31      | 338-3429    | 1        | Harness, Wiring – Terminal Block (9 Wire, 11") (Includes Connector Plug and Sockets) (P2 to TB21)   |
| 2       | 402-0527    | 4        | Isolator, Vibration  | 32      | 323-1644-02 | 1        | Plug, Connector (P2)  |
| 3       | 517-0301    | 1        | Plug, Hole (Fits 2" Hole)<br>(Quantity Used As Required)   | 33      | 323-1648    | 9        | Socket, Contact   |
| 4       | 508-0051    | 1        | Grommet (Fits 2" Hole)   | 34      | 800-0045    | 4        | Screw, Cap – Hex Head (5/16-18 x 3/8")  |
| 5       | 406-0332    | 2        | Receptacle, Fastener   | 35      | 870-1220    | 6        | Nut, Hex (#4-40)  |
| 6       | 406-0333    | 2        | Stud, Fastener   | 36      | 821-5000-05 | 4        | Screw, Self-Locking – Hex Washer Head (#10-32 x 1/2")   |
| 7       | 406-0334    | 2        | Washer, Stud Retainer  | 37      | 815-0937    | 8        | Screw, Pan Head (Cross Recessed (#6-32 x 1/2"))   |
| 8       | 332-0052    | 2        | Clip, Wire   | 38      | 301-9055-01 | 1        | Door, Control – DC  |
| 9       | 870-0131    | 1        | Nut, Hex – W/ET (#10-32)   | 39      | 815-0385    | 4        | Screw, Machine – Round Head (#6-32 x 1/2")  |
| 10      | 871-0015    | 1        | Nut, Hex (1/4-20)  | 40      | 870-0183    | 4        | Nut, Hex – W/ET (#6-32)   |
| 11      | 526-0018    | 1        | Washer, Flat (1/4")  | 41      | 338-3252    | 1        | Harness, Wiring – DC Control Door (Includes Connector Housing and Contact Pins) (22 Wire, 32") (A11J4 to GND, M11,12,13,14, S11,12, DS11) |
| 12      | 337-0049    | 1        | Strap, Ground  | 42      | 323-1308    | 1        | Housing, Connector (J4)   |
| 13      | 821-0014    | 5        | Screw, Self-Locking – Hex Head (5/16-18 x 1/2")  | 43      | 323-1302    | 11       | Pin, Contact  |
| 14      | 517-0302    | 1        | Plug, Hole (Fits 2-1/4" Hole)<br>(Quantity Used As Required)   | 44      | 300-4296    | 1        | Board Assembly, Printed Circuit – Engine Monitor (Includes Fuses) (A11)   |
| 15      | 856-0008    | 2        | Washer, Lock – EIT (5/16")   | 45      |             |          | Fuse  |
| 16      | 821-0004    | 3        | Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16")   |         | 321-0307-03 | 2        | 5 Amp (Tan) (F4, F5)  |
| 17      | 301-9054-01 | 1        | Door, Control – AC   |         | 321-0307-06 | 1        | 15 Amp (Light Blue) (F3)  |
| 18      | 338-2278    | 1        | Harness, Wiring – AC Control Door (Includes Terminal Block) (19 Wire, 26") (TB21, GND to GND, M21,22,23, S21, DS21,22) |         | 321-0307-07 | 2        | 20 Amp (Yellow) (F1, F2)  |
| 19      | 332-0607    | 1        | Block, Terminal (12 Place) (TB21)  | 46      | 322-0360-01 | 1        | Light Assembly, Indicator (Includes Wiring Harness and Connector Housing) (A12)   |
| 20      | 322-0363    | 1        | Light, Indicator – Upper/Lower Scale (DS21,22)   | 47      | 322-0369-01 | 1        | Light, Indicator – Replacement  |
| 21      |             |          | Voltmeter, AC (M21)  | 48      | 322-0361    | 1        | Light, Panel (DS11)   |
|         | 302-1148    | 1        | 0-300/600  | 49      | 322-0004    | 1        | Bulb, Panel Light – Replacement   |
|         | 302-1753    | 1        | 0-0750   | 50      | 193-0466    | 1        | Gauge, Oil Pressure (M11)   |
| 22      |             |          | Ammeter (M22)  | 51      | 193-0351    | 1        | Gauge, Water Temperature (M12)  |
|         | 302-1684    | 1        | 0-150/300  | 52      | 302-1641    | 1        | Voltmeter (M13)   |
|         | 302-1685    | 1        | 0-200/400  | 53      | 302-2002    | 1        | Meter, Hour (M14)   |
|         | 302-1724    | 1        | 0-250/500  | 54      | 517-0131    | 1        | Plug, Hole (Fits 7/8" Hole)   |
| 23      | 302-1968    | 1        | Meter, Frequency (M23)   | 55      | 308-1010    | 1        | Switch, Rocker – Lamp Test/Reset Panel Lamp (S11)   |
| 24      | 853-0008    | 1        | Washer, Lock – ET (#10)  | 56      | 308-1011    | 1        | Switch, Rocker – Run/Stop/Remote (S12)  |
| 25      | 308-1052    | 1        | Switch, Rotary – Voltmeter/Ammeter (Includes Handle) (S21)   | 57      | 853-0008    | 1        | Washer, Lock – ET (#10)   |
| 26      | 332-2723    | 1        | Strip, Marker  | 58      | 300-5098    | 1        | Board, Printed Circuit – Sensor Board (A27)   |
| 27      | 815-0901-06 | 2        | Screw, Cross Recessed – Thread Forming (#6-32 x 5/8")  | 59      | 308-1082    | 1        | Handle, Rotary Switch   |
| 28      | 355-0189    | 1        | Capacitor – Voltmeter (.1 Mfd., 500 WVDC) (C21)  |         |             |          |   |
| 29      | 870-0183    | 4        | Nut, Hex – W/ET (#6-32)  |         |             |          |   |
| 30      | 815-0875-02 | 3        | Screw, Machine – Round Head (M4 x 8mm)   |         |             |          |   |

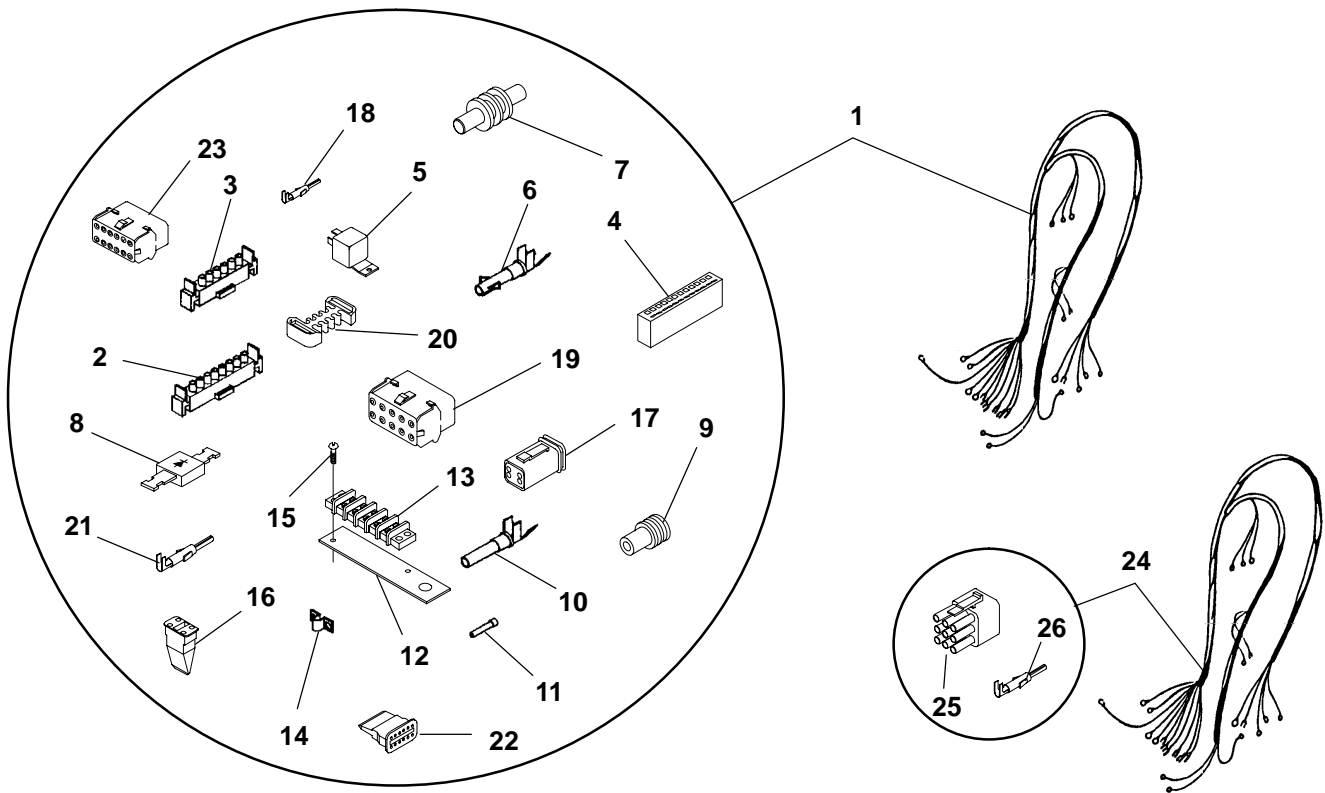
## Control Heater



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION          | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                      |
|---------|-------------|----------|---------------------------|---------|----------|----------|---------------------------------------|
| 1       | 332-2420    | 2        | Mount, Tie – Cable        | 11      | 335-0110 | 1        | * Cable                               |
| 2       | 098-6195    | 1        | Label, Caution            | 12      | 332-2697 | 1        | * Terminal, Ring                      |
| 3       |             |          | Heater, Control           | 13      | 332-1992 | 1        | * Terminal, Receptical                |
|         | 300-4515-01 | 1        | 120 Volt                  | 14      | 332-2430 | 1        | * Terminal, Tab                       |
|         | 300-4515-02 | 1        | 240 Volt                  | 15      | 332-0942 | 3        | Tie, Cable                            |
| 4       | 898-1195-01 | A/R      | Sleeving, Convoluted      | 16      | 800-0024 | 1        | Screw, Cap – Hex Head (5/16-18 x 3/4) |
| 5       | 357-0114    | 1        | Rectifier, Power          | 17      | 870-0257 | 1        | Nut, Hex – Self Locking (5/16-18)     |
| 6       | 332-1992    | 1        | Terminal, Receptical      | 18      | 856-0008 | 2        | Washer, Lock EIT (5/16)               |
| 7       | 332-2430    | 1        | Terminal, Tab             |         |          |          |                                       |
| 8       | 898-0860    | A/R      | Tubing, Heat Shrink       |         |          |          |                                       |
| 9       | 332-1789    | 2        | Splice, Window (18 Gauge) |         |          |          |                                       |
| 10      | 335-0173    | 1        | Cable, Heater – Control   |         |          |          |                                       |
|         |             |          | (Includes Parts Marked *) |         |          |          |                                       |

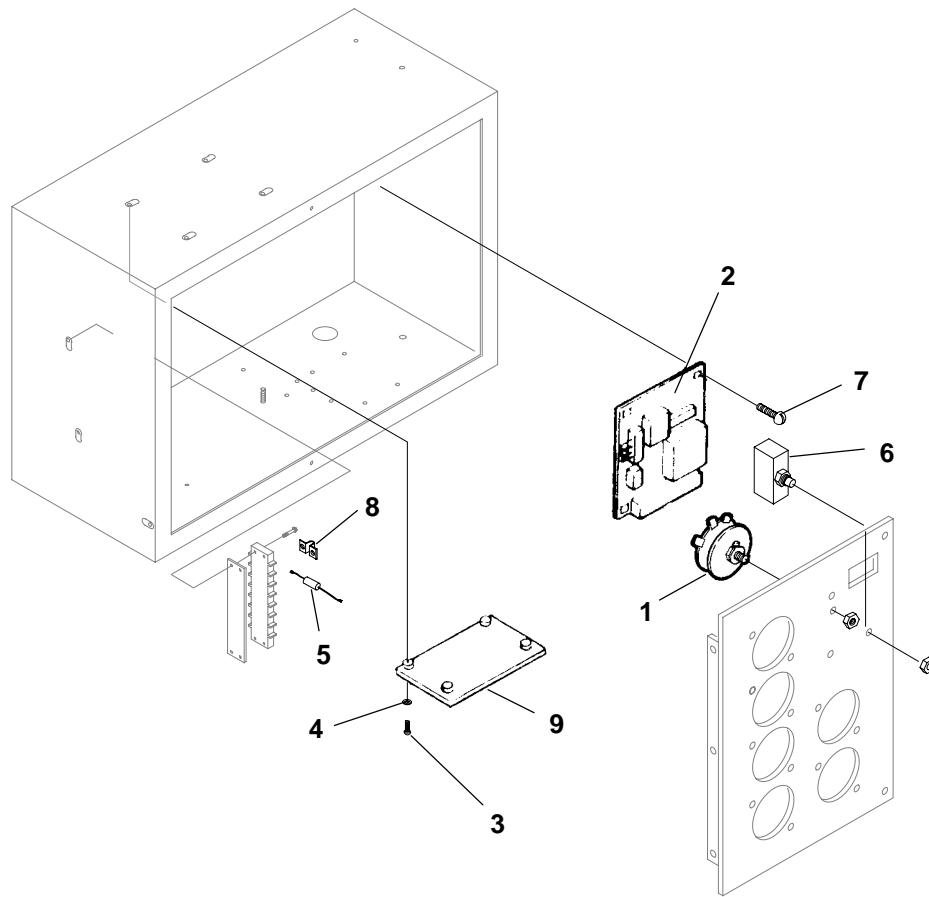
\* – Parts Included in 335-0173 Heater Cable

## Engine Wiring Harness



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION   | REF NO.  | PART NO.    | QTY USED | PART DESCRIPTION   |
|---------|-------------|----------|--|--|-------------|----------|--|
| 1       | 338-3922    | 1        | Harness, Wiring – Engine to Control (Includes Parts Marked #)    | 16   | 323-1548    | 1        | # Wedge, Plug (4 Pin)                                    |
| 2       | 323-1306    | 1        | # Housing, Connector – 8 Place (J1)                              | 17   | 323-1546    | 1        | # Plug (4 Pin)   |
| 3       | 323-1304    | 1        | # Housing, Connector – 6 Place (J2)                              | 18   | 323-1302    | 11       | # Pin, Contact (Used in J3)                              |
| 4       | 323-1374-12 | 1        | # Housing, Connector – 12 Place (J3)                             | 19   | 323-1710    | 1        | # Connector (10 Pin) (P8)                                |
| 5       | 307-2817-01 | 2        | # Relay (K4, K5)   | 20   | 323-1719    | 1        | # Housing, Lock (P8)                                     |
| 6       | 323-1200    | 12       | # Socket, Contact (Used in J1, J2)                               | 21   | 323-1707    | 10       | # Pin, Terminal (P8)                                     |
| 7       | 323-1712    | A/R      | # Plug, Cavity (P8)  | 22   | 323-1583    | 1        | # Wedge, Plug (12 Pin)                                   |
| 8       | 357-0030    | 1        | # Rectifier, Silicon (CR1)                                       | 23   | 323-1582    | 1        | # Plug (12 Pin)  |
| 9       | 323-1708    | 9        | # Seal, Cable (P8)   | 24   |             |          | Harness, Wiring – AC Auxiliary (Includes Parts Marked +) |
| 10      | 323-1492    | 9        | # Socket, Contact  |  | 338-3405    | 1        | 600 Volts  |
| 11      | 323-1591    | 1        | # Plug, Seal   |  | 338-3403    | 1        | Less than 600 Volts                                      |
| 12      | 319-2006-01 | 1        | # Bracket, Terminal Mounting                                     | 25   |             |          | + Connector, Plug (9 Place)                              |
| 13      | 332-0604    | 1        | # Block, Terminal (T26)  |  | 323-1644-01 | 2        | 600 Volts  |
| 14      | 332-1043    | 4        | # Jumper (T26)   |  | 323-1644-01 | 1        | Less than 600 Volts                                      |
| 15      | 815-0538    | 2        | # Screw, Machine – Round Head – Cross Recessed W/IT (8-32 x .50) | 26   | 323-1647    | A/R      | + Pin, Contact   |
|         |             |          |  | # – Parts Included in 338-3922 Wiring Harness              |             |          |  |
|         |             |          |  | + – Parts Included in 338-3405 and 338-3403 Wiring Harness |             |          |  |

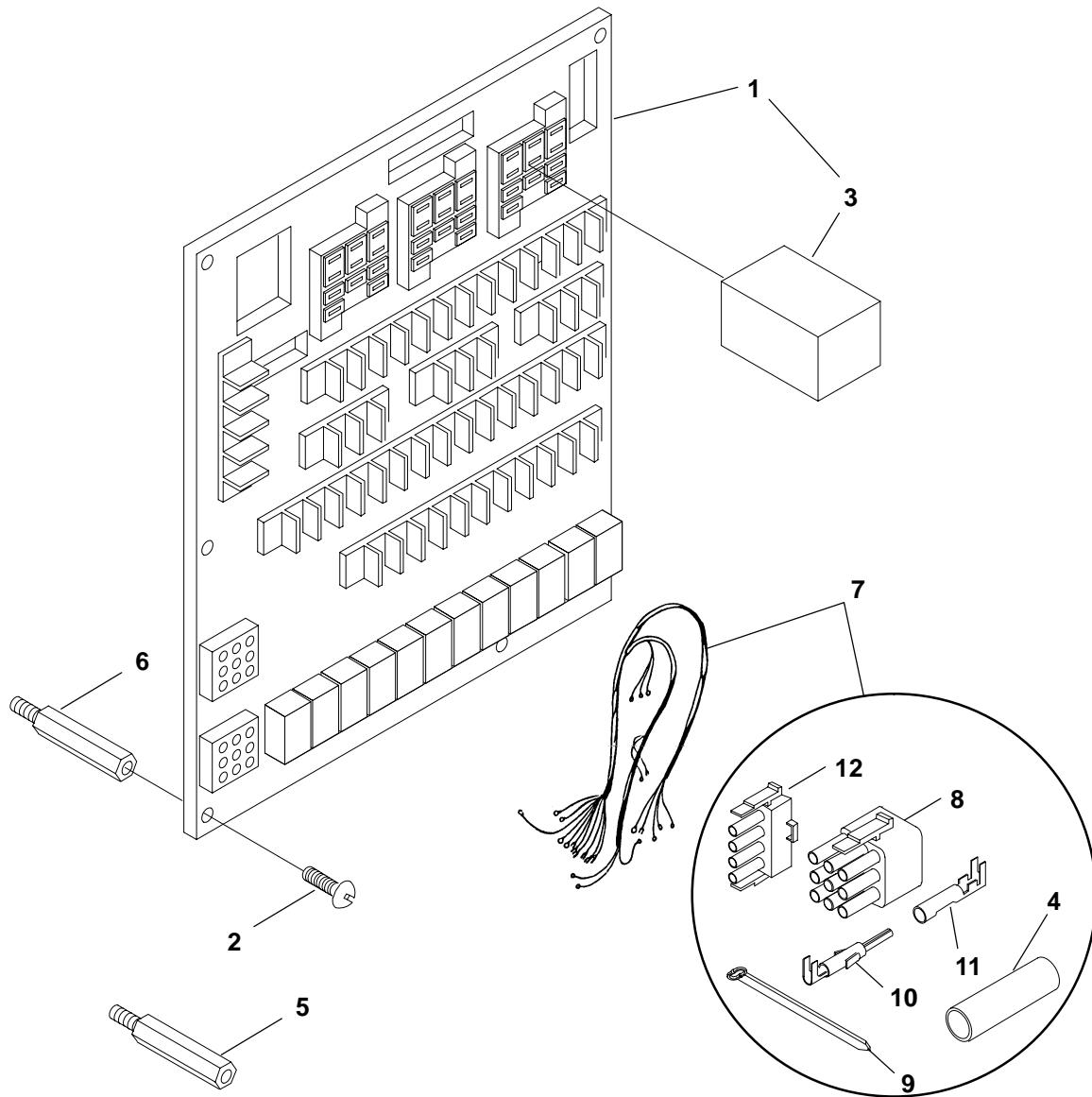
## Voltage Regulator



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION   |
|---------|-------------|----------|--|
| 1       | 303-0261    | 1        | Potentiometer (R21)<br>* 1.5K Ohms (Used With Model SX460 Voltage Regulator) |
|         | 303-0285-01 | 1        | # 5K Ohms (Used With Model MX321 Voltage Regulator)                          |
| 2       |             |          | Board, Printed Circuit – Voltage Regulator (VR21)                            |
|         | 305-0982    | 1        | * Model SX460  |
|         | 305-0823    | 1        | # Model MX321  |
| 3       | 815-0901-06 | 4        | #Screw, Pan Head – Cross Recessed – Thread Cutting (#6–32 x 5/8")            |
| 4       | 526-0003    | 4        | #Washer, Flat (#8)   |
| 5       | 350-1222    | 1        | *#Resistor (1.5K Ohms) (Used on TB21)  |

| REF NO.   | PART NO.    | QTY USED | PART DESCRIPTION                                      |
|---|-------------|----------|---|
| 6   | 320-1688-01 | 1        | *#Breaker, Circuit (CB21)                             |
| 7   |             |          | *#Screw, Pan Head – Cross Recessed (#10–32 x 7/8")    |
|   | 815-0905-08 | 4        | SX460 Voltage Regulator                               |
|   | 815-0905-08 | 6        | MX321 Voltage Regulator                               |
| 8   | 332-2605    | 1        | *#Jumper (Used on TB21)                               |
| 9   | 305-0868    | 1        | #Board, Printed Circuit – Isolation Transformer (T30) |
| * – Parts Used on Generators Without Permanent Magnet Exciter |             |          |   |
| # – Parts Used on Generators With Permanent Magnet Exciter    |             |          |   |

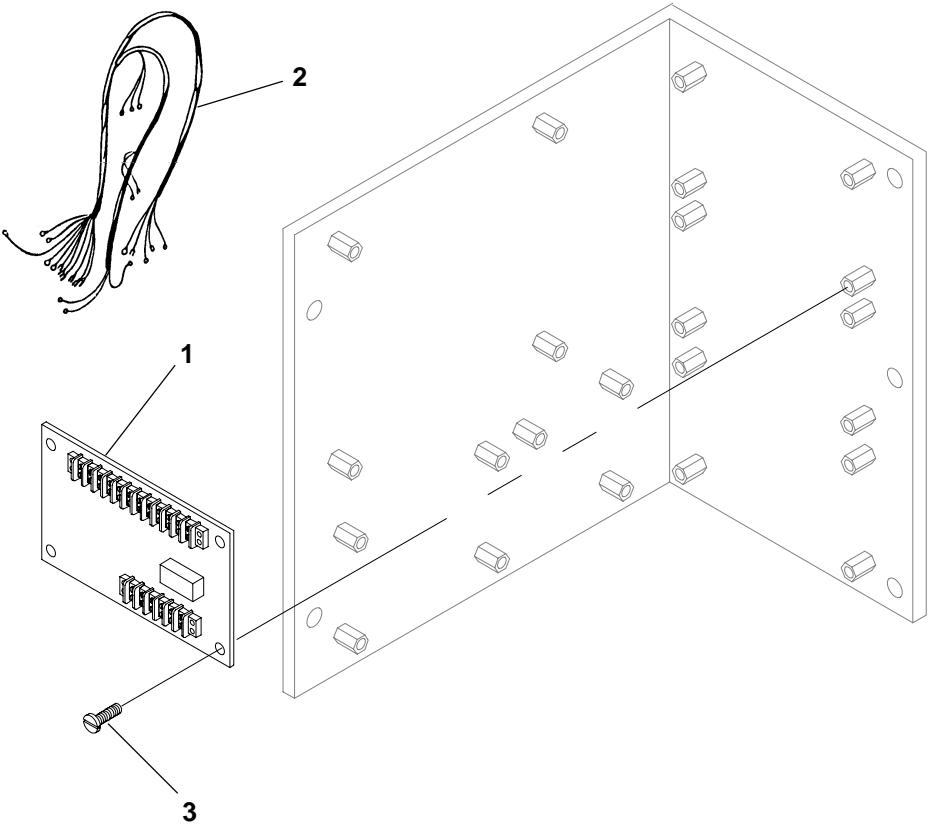
## Alarm Relay Board



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION  | REF NO. | PART NO. | QTY USED | PART DESCRIPTION  |
|---------|-------------|----------|---|---------|----------|----------|---|
| 1       | 300-4111-03 | 1        | Board, PC - Alarm Relay                                       | 7       | 338-2875 | 1        | Harness, Alarm Relay Board<br>(Includes parts marked *) |
| 2       | 815-0937    | 6        | Screw, Machine - Round Head<br>- Cross Recessed (#6-32 x .50) | 8       | 323-1291 | 2        | * Plug, 9 Pin   |
| 3       | 307-1058    | 3        | Relay (12 VDC) (K1, K2, K3)                                   | 9       | 332-1445 | A/R      | * Tie, Cable  |
| 4       | 898-0025    | 5        | * Sleeving (1/2")   | 10      | 323-1199 | 9        | * Pin, Contact  |
| 5       | 870-0517-02 | 2        | Standoff - Alarm Board<br>(1.31 Long)                         | 11      | 323-1200 | 12       | * Socket, Contact                                       |
| 6       | 870-0517-01 | 4        | Standoff - Alarm Board<br>(1.25 Long)                         | 12      | 323-1292 | 1        | * Plug, 4 Pin   |

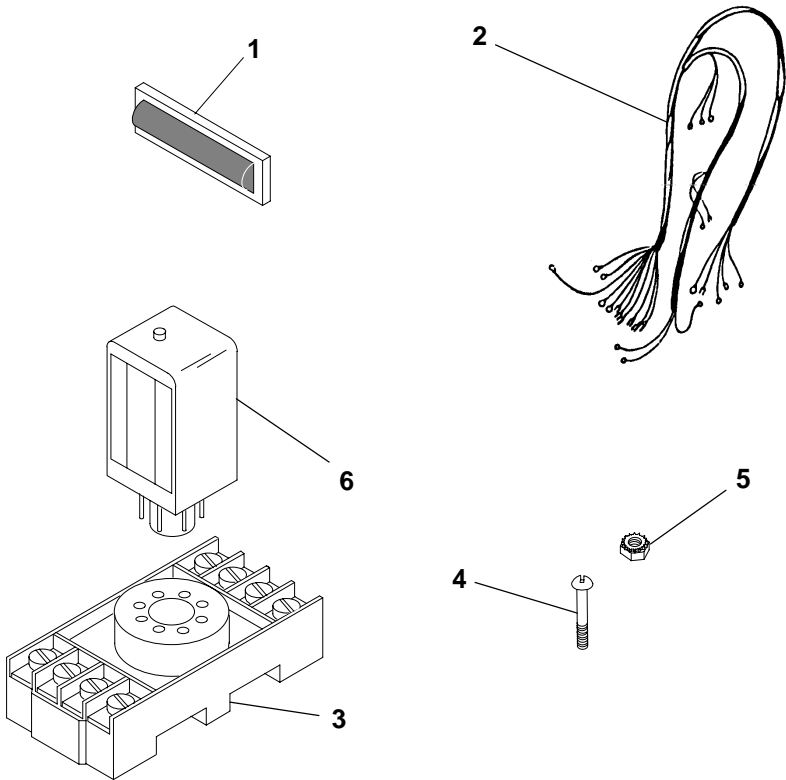
\* = Parts includes in 338-2875 Harness Assembly

Common Alarm



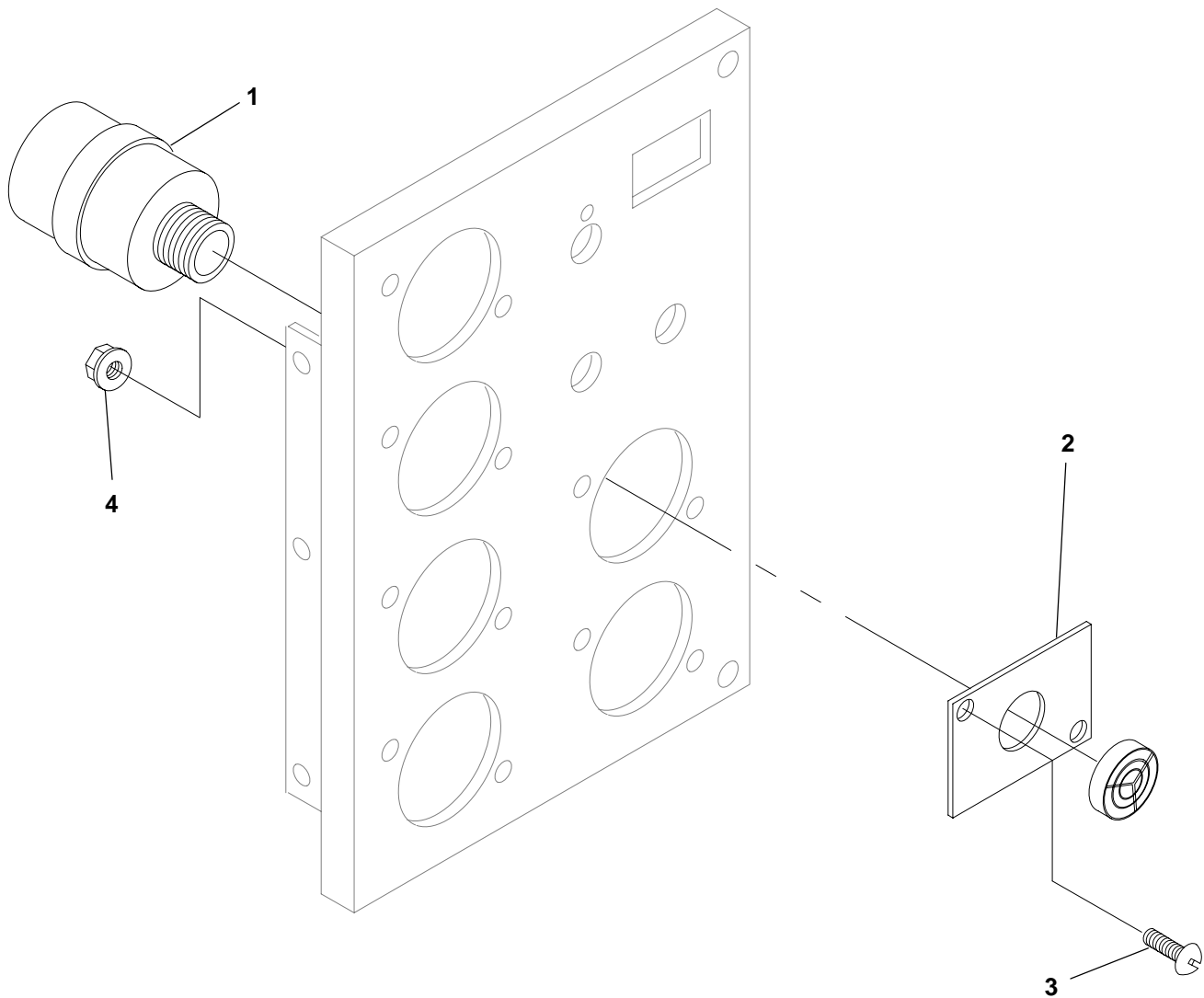
| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION               | REF NO. | PART NO. | QTY USED | PART DESCRIPTION            |
|---------|-------------|----------|--------------------------------|---------|----------|----------|-----------------------------|
| 1       | 300-4218-01 | 1        | Board, Printed Circuit – Diode | 3       | 812-0063 | 4        | Screw, Machine – Round Head |
| 2       | 338-3033    | 1        | Harness, Common Alarm          |         |          |          | (#6-32 x 1/2)               |

Low Battery Voltage Sensor



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

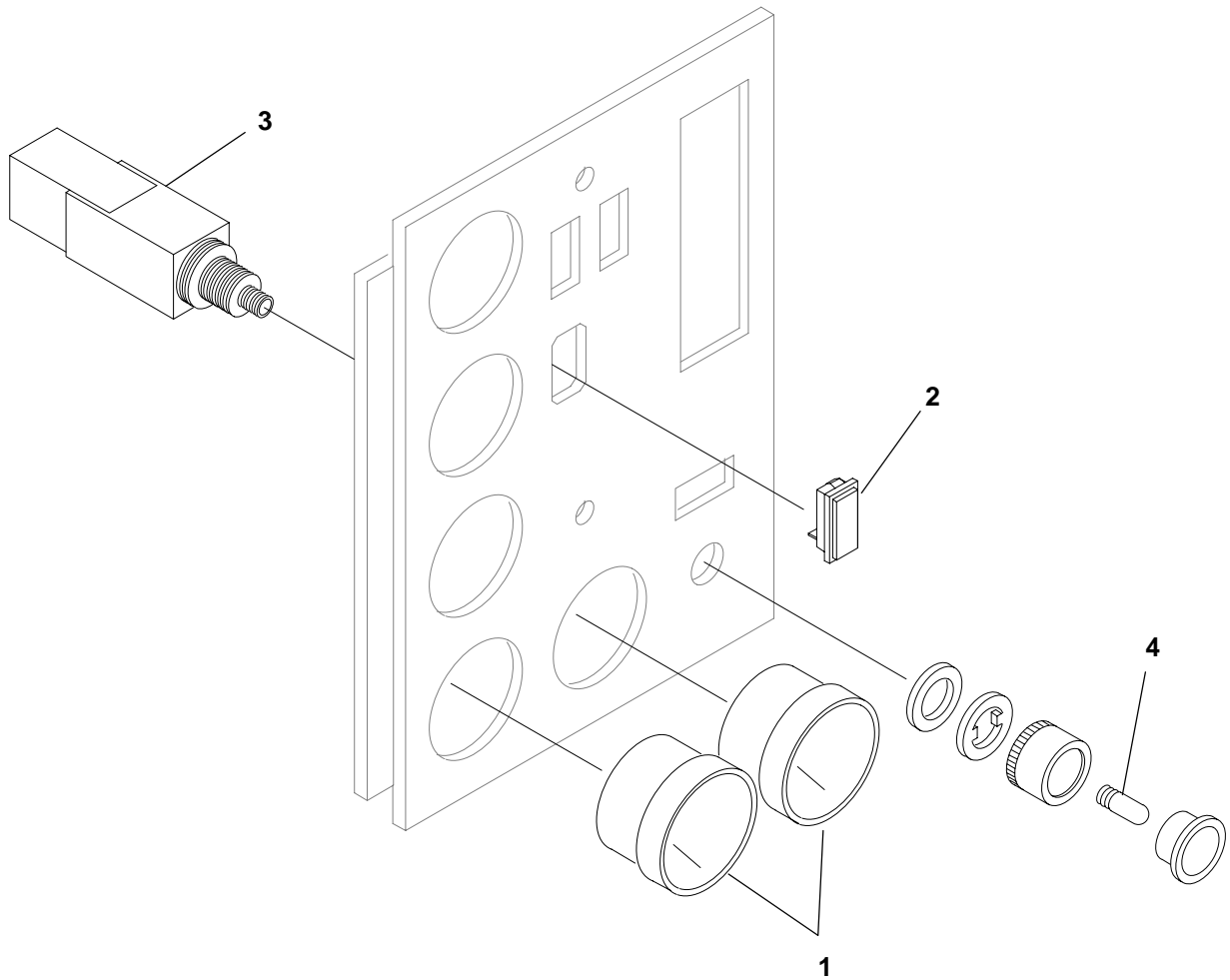
## Audible Alarm



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



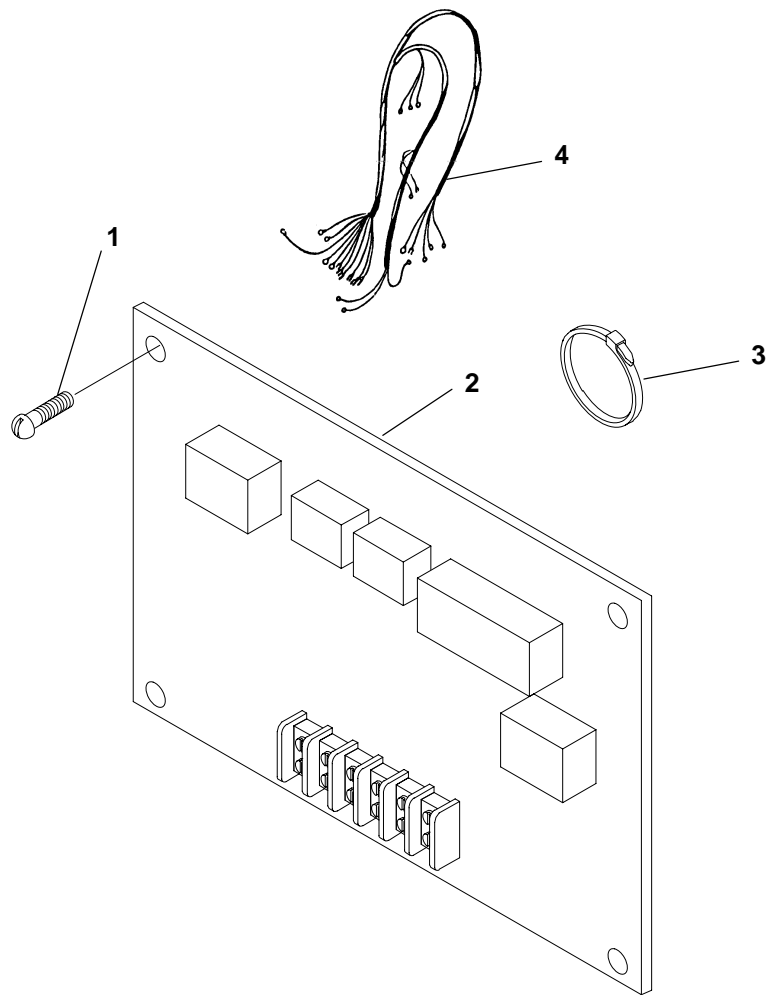
## Emergency Stop Switch



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION  |
|---------|----------|----------|---|
| 1       | 302-1723 | 2        | Ammeter – Blank Scale   |
| 2       | 301-6257 | 1        | Switch – Blank  |
| 3       | 308-1095 | 1        | Switch, Pushbutton –<br>Emergency Stop (Includes<br>Bulb) (S14) |

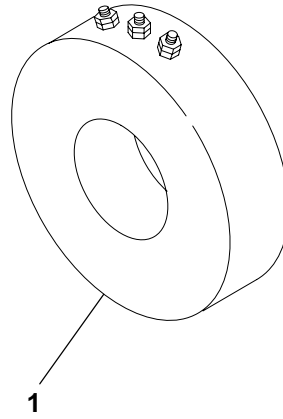
| REF NO. | PART NO. | QTY USED | PART DESCRIPTION  |
|---------|----------|----------|-------------------|
| 4       | 322-0487 | 1        | Bulb, Replacement |

## Time Delay Start/Stop



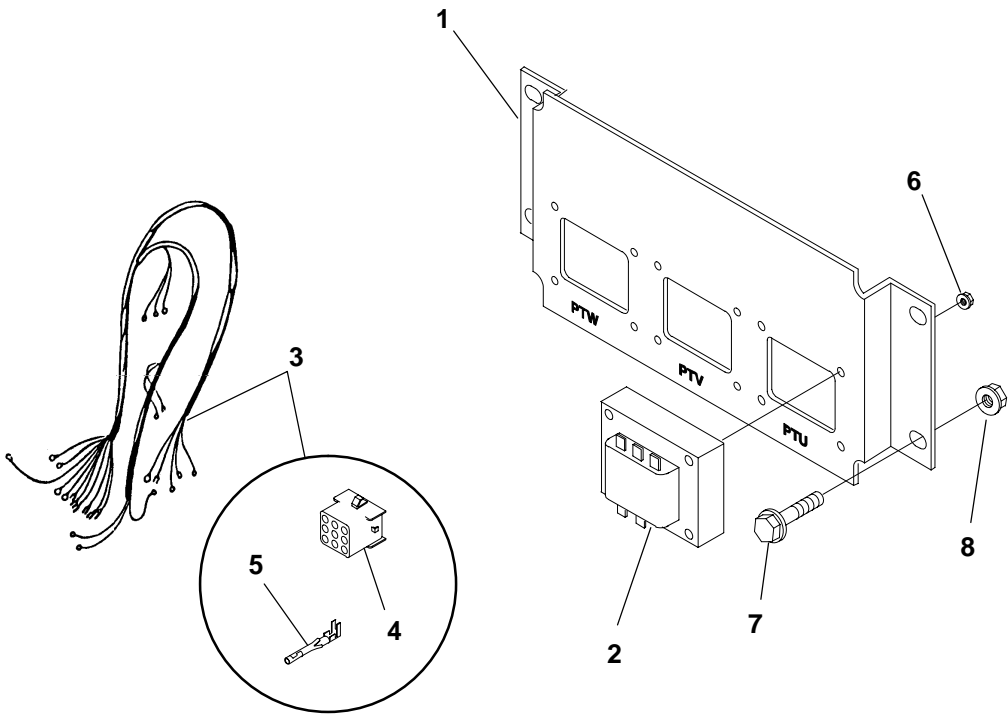
| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                               | REF NO. | PART NO. | QTY USED | PART DESCRIPTION               |
|---------|----------|----------|--|---------|----------|----------|--------------------------------|
| 1       | 815-0937 | 4        | Screw, Pan Head – Cross Recessed (#6-32 x 1/2) | 4       | 338-1904 | 1        | Harness, Time Delay Start/Stop |
| 2       | 300-2897 | 1        | PCB, Time Delay Start/Stop                     |         |          |          |                                |
| 3       | 332-1445 | 3        | Tie, Cable                                     |         |          |          |                                |

## Current Transformer



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                           | REF NO. | PART NO. | QTY USED | PART DESCRIPTION |
|---------|-------------|----------|--|---------|----------|----------|------------------|
| 1       |             |          | Transformer, Current<br>(CT21, CT22, CT23) |         |          |          |                  |
|         | 302-1845-05 | 3        | Ratio 150/5 or 300/5                       |         |          |          |                  |
|         | 302-1845-06 | 3        | Ratio 200/5 or 400/5                       |         |          |          |                  |
|         | 302-1845-07 | 3        | Ratio 250/5 or 500/5                       |         |          |          |                  |

Meter Transformer



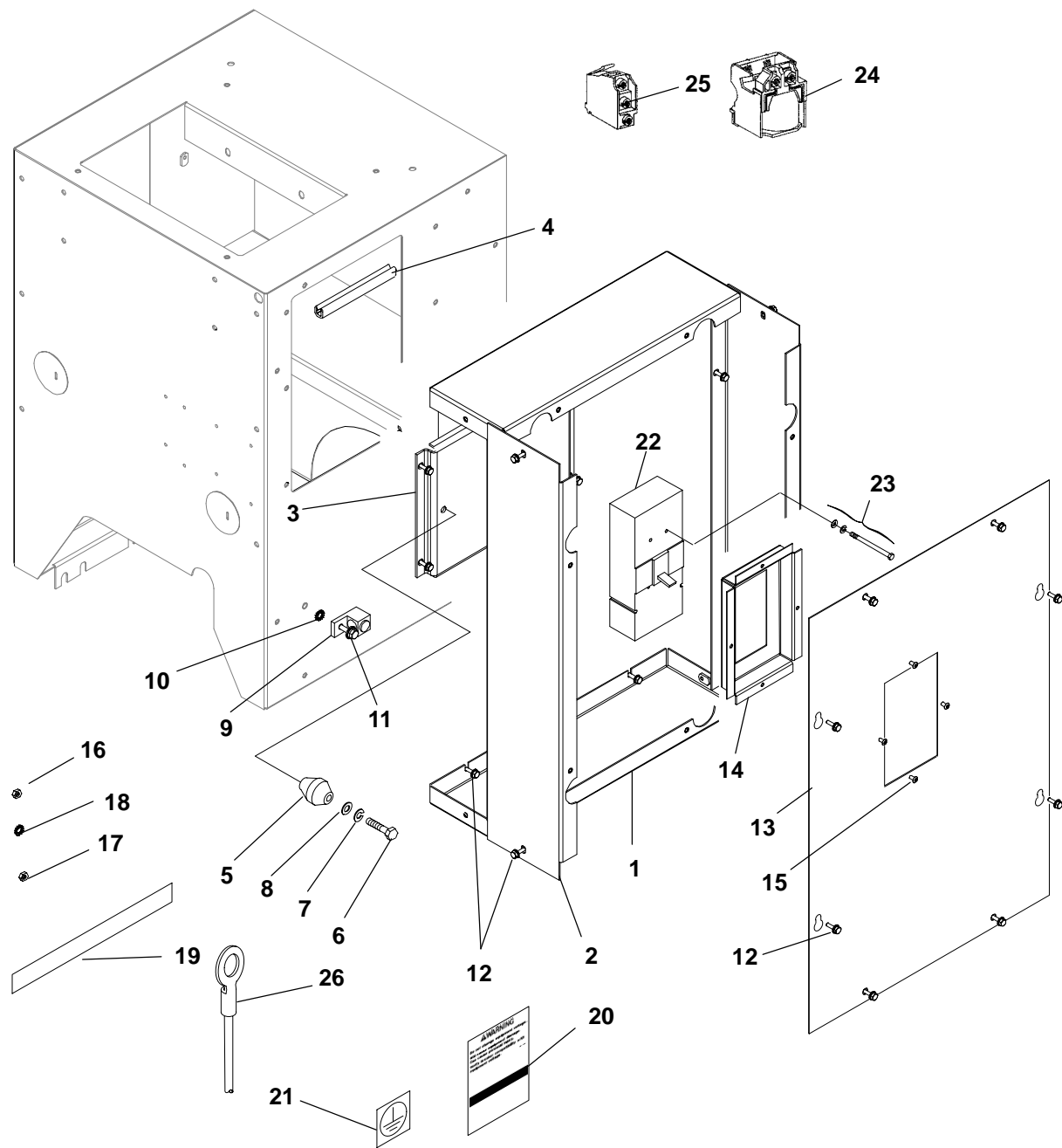
| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                               |
|---------|-------------|----------|--|
| 1       | 319-1245    | 1        | Bracket, Transformer                           |
| 2       | 315-0717-00 | 3        | Transformer, Meter                             |
| 3       | 338-3337    | 1        | Harness, Transformer (Includes Parts Marked *) |
| 4       | 323-1644-02 | 1        | * Housing, Cap (J1)                            |
| 5       | 323-1648    | 9        | * Socket, Terminal                             |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                      |
|---------|----------|----------|---|
| 6       | 870-0221 | 12       | Nut, Hex – W/ET (#8-32)                               |
| 7       | 821-0016 | 4        | Screw, Self-Locking – Hex Flange Head (5/16-18 x 3/4) |
| 8       | 870-0257 | 4        | Nut, Self Locking (5/16-18)                           |

\* – Parts Included in 338-3337 Wiring Harness



Circuit Breaker



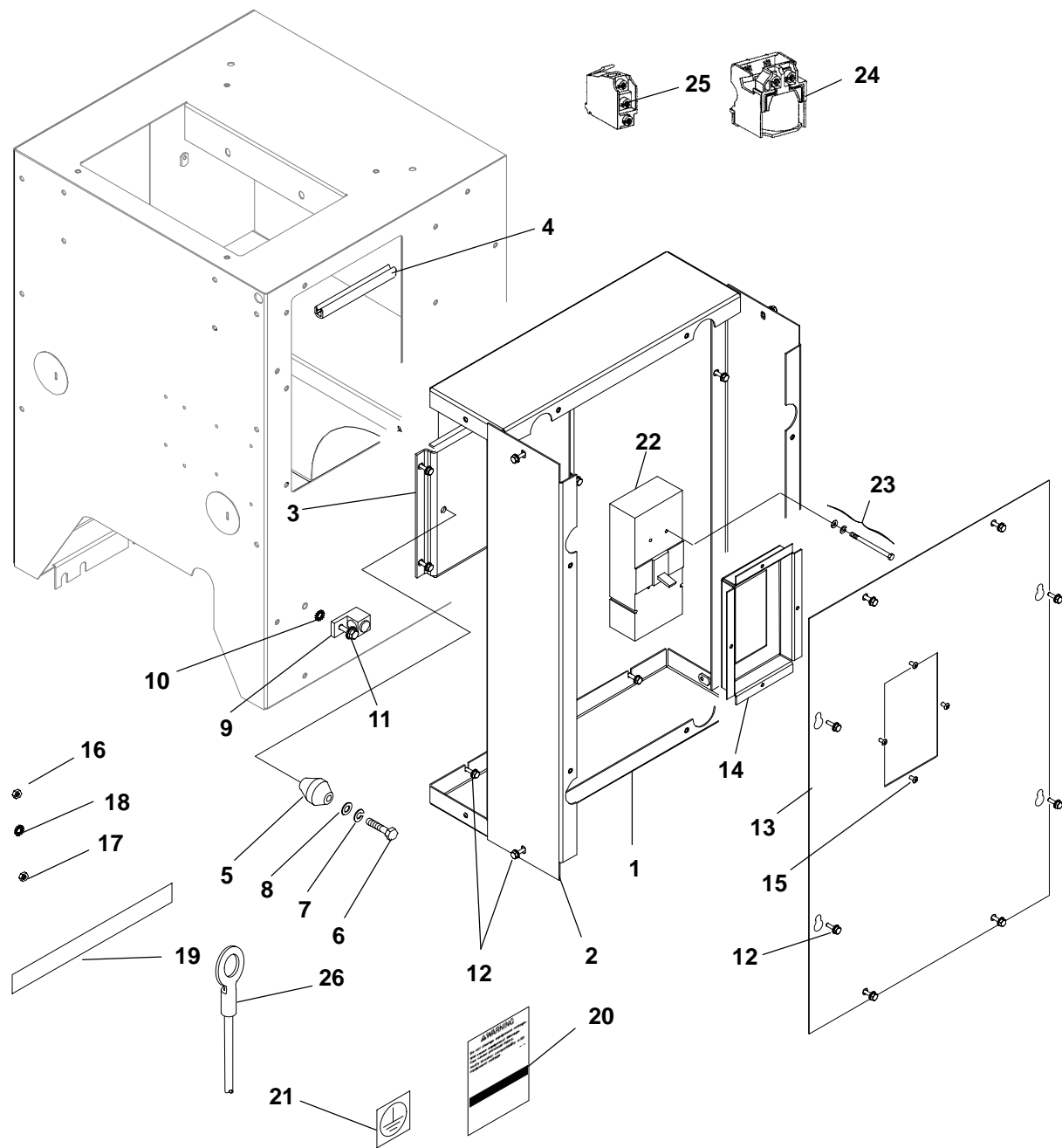
## Circuit Breaker

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                    | REF NO. | PART NO. | QTY USED | PART DESCRIPTION              |
|---------|-------------|----------|---|---------|----------|----------|-------------------------------|
| 1       | 319-3072    | 2        | Panel, Box – Top and Bottom                         | 16      | 860-0012 | 4        | Nut, Hex (#12-24) Mounting    |
| 2       | 319-2978    | 2        | Panel, Box – Side                                   |         |          |          | Mounting Hardware Used On     |
| 3       | 319-3149    | 1        | Bracket, Mounting – Circuit Breaker                 |         |          |          | 320-1962-XX Circuit           |
| 4       | 508-0239    | –        | Edging – Bulk (Order By The Foot – 2 Feet Required) | 17      | 870-0221 | 4        | Breakers                      |
| 5       | 332-2744-07 | 1        | *Standoff, Insulator                                |         |          |          | Nut, Hex – W/ET (#8-32)       |
| 6       | 800-0048    | 2        | *Screw, Cap – Hex Head (3/8-16 x 3/4")              | 18      | 856-0005 | 4        | Mounting Hardware Used On     |
| 7       | 850-0050    | 2        | *Washer, Lock – Spring (3/8")                       |         |          |          | 320-1961-XX Circuit           |
| 8       | 526-0029    | 1        | *Washer, Flat (3/8")                                |         |          |          | Washer, Lock – EIT (#12)      |
| 9       | 332-1473    | 1        | Lug, Solderless                                     | 19      | 091-0002 | 1        | Mounting Hardware Used On     |
| 10      | 856-0008    | 1        | Washer, Lock – EIT (5/16")                          |         |          |          | 320-1962-XX Circuit           |
| 11      | 821-6003-02 | 1        | Screw, Self-Locking – Hex Washer Head (M8 x 20mm)   |         |          |          | Breakers                      |
| 12      | 821-6002-03 | 24       | Screw, Self-Locking – Hex Washer Head (M6 x 16mm)   | 20      | 098-2304 | 1        | Strip, Copper (Used for       |
| 13      | 319-3151    | 1        | Cover, Box  | 21      | 098-6537 | 1        | wrapping end of leads before  |
| 14      |             |          | Cup   |         |          |          | securing to circuit breakers) |
|         | 319-3242    | 1        | 1-1/2" x 3-1/2" Opening                             |         |          |          | (Quantity Used As Required)   |
|         | 319-3150    | 1        | 2-1/2" x 4-3/4" Opening                             |         |          |          | Label, Warning                |
|         | 319-3240    | 1        | 3" x 3-15/16" Opening                               |         |          |          | Label, Ground                 |
| 15      | 818-0231-02 | 4        | Rivet, Pop  |         |          |          |                               |

\* – Parts Used On Generator Sets With 2 Or 3 Pole Circuit Breakers

**Continued...**

Circuit Breaker





## Circuit Breaker

| REF NO.      | PART NO.    | QTY USED | PART DESCRIPTION             | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION  |
|--------------|-------------|----------|------------------------------|---------|-------------|----------|---|
| Continued... |             |          |                              | 23      |             |          | Package, Hardware – Circuit Breaker Mounting (Includes Screws, Nuts and Lock Washers) |
| 22           |             |          | Breaker, Circuit             |         |             |          | Used With 320–1959–XX Circuit Breakers  |
|              |             |          | <b>2 Pole (UL)</b>           |         |             |          | Used With 320–1960–XX Circuit Breakers  |
|              | 320–1961–07 | 1        | 100 Amp (240 Volts)          |         | 320–1986–08 | 1        | Used With 320–1962–XX Circuit Breakers (Screws Only)                                  |
|              | 320–1961–06 | 1        | 125 Amp (240 Volts)          |         |             |          | <b>Accessories, Circuit Breaker:</b>  |
|              | 320–1961–05 | 1        | 150 Amp (240 Volts)          |         | 320–1986–07 | 1        | <b>The following are used on</b>  |
|              | 320–1961–04 | 1        | 175 Amp (240 Volts)          |         |             |          | <b>320–1959–XX and</b>  |
|              | 320–1961–03 | 1        | 200 Amp (240 Volts)          |         | 320–1986–05 | 1        | <b>320–1960–XX Circuit</b>  |
|              | 320–1961–02 | 1        | 225 Amp (240 Volts)          |         |             |          | <b>Breakers</b>   |
|              | 320–1961–01 | 1        | 250 Amp (240 Volts)          |         |             |          | Trip, Shunt (12V)   |
|              | 320–1962–03 | 1        | * 300 Amp (240 Volts)        | 24      | 320–1981–02 | 1        | Switch – Used as an   |
|              | 320–1962–02 | 1        | * 350 Amp (240 Volts)        | 25      | 320–1981–01 | 2        | Auxiliary Contact or Trip   |
|              | 320–1962–01 | 1        | * 400 Amp (240 Volts)        |         |             |          | Alarm   |
|              |             |          | <b>3 Pole (UL)</b>           | 26      |             |          | Lead (Quantity Used As  |
|              | 320–1961–14 | 1        | 100 Amp (240 Volts)          |         | 226–0893    | 1        | Required)   |
|              | 320–1961–13 | 1        | 125 Amp (240 Volts)          |         |             |          | 3/8" Ring Terminal End to   |
|              | 320–1961–12 | 1        | 150 Amp (240 Volts)          |         |             |          | 1" Stripped End – No  |
|              | 320–1961–11 | 1        | 175 Amp (240 Volts)          |         |             |          | Markings (33") (#1/0  |
|              | 320–1961–10 | 1        | 200 Amp (240 Volts)          |         |             |          | Wire)   |
|              | 320–1961–09 | 1        | 225 Amp (240 Volts)          |         | 226–3505–01 | 1        | 3/8" Ring Terminal End to   |
|              | 320–1961–08 | 1        | 250 Amp (240 Volts)          |         |             |          | 1" Stripped End – No  |
|              | 320–1962–06 | 1        | * 300 Amp (240 Volts)        |         |             |          | Markings (30") (#4  |
|              | 320–1962–05 | 1        | * 350 Amp (240 Volts)        |         | 226–3505–03 | 1        | Wire)   |
|              | 320–1962–04 | 1        | * 400 Amp (240 Volts)        |         |             |          | 3/8" Ring Terminal End to   |
|              |             |          | <b>3 Pole (UL &amp; IEC)</b> |         |             |          | 3/8" Ring Terminal End  |
|              | 320–1959–19 | 1        | * 40 Amp (600/750 Volts)     |         |             |          | – Marked "LO" (30") (#4   |
|              | 320–1959–18 | 1        | * 50 Amp (600/750 Volts)     |         | 226–3505–04 | 1        | Wire)   |
|              | 320–1959–17 | 1        | * 60 Amp (600/750 Volts)     |         |             |          | 3/8" Ring Terminal End to   |
|              | 320–1959–10 | 1        | * 70 Amp (600/750 Volts)     |         |             |          | 3/8" Ring Terminal End  |
|              | 320–1959–09 | 1        | * 80 Amp (600/750 Volts)     |         |             |          | – Marked "LO" (30")   |
|              | 320–1959–08 | 1        | * 90 Amp (600/750 Volts)     |         |             |          | (#1/0 Wire)   |
|              | 320–1959–07 | 1        | * 100 Amp (600/750 Volts)    |         |             |          |   |
|              | 320–1959–06 | 1        | * 125 Amp (600/750 Volts)    |         |             |          |   |
|              | 320–1959–05 | 1        | * 150 Amp (600/750 Volts)    |         |             |          |   |
|              | 320–1959–04 | 1        | * 175 Amp (600/750 Volts)    |         |             |          |   |
|              | 320–1959–03 | 1        | * 200 Amp (600/750 Volts)    |         |             |          |   |
|              | 320–1959–02 | 1        | * 225 Amp (600/750 Volts)    |         |             |          |   |
|              | 320–1959–01 | 1        | * 250 Amp (600/750 Volts)    |         |             |          |   |
|              | 320–1960–06 | 1        | * 300 Amp (600/750 Volts)    |         |             |          |   |
|              | 320–1960–05 | 1        | * 350 Amp (600/750 Volts)    |         |             |          |   |
|              | 320–1960–04 | 1        | * 400 Amp (600/750 Volts)    |         |             |          |   |
|              |             |          | <b>4 Pole (IEC)</b>          |         |             |          |   |
|              | 320–1959–13 | 1        | * 160 Amp (750 Volts)        |         |             |          |   |
|              | 320–1959–12 | 1        | * 200 Amp (750 Volts)        |         |             |          |   |
|              | 320–1959–11 | 1        | * 250 Amp (750 Volts)        |         |             |          |   |
|              | 320–1960–10 | 1        | * 320 Amp (750 Volts)        |         |             |          |   |
|              | 320–1960–09 | 1        | * 400 Amp (750 Volts)        |         |             |          |   |
|              | 320–1960–08 | 1        | * 500 Amp (750 Volts)        |         |             |          |   |

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