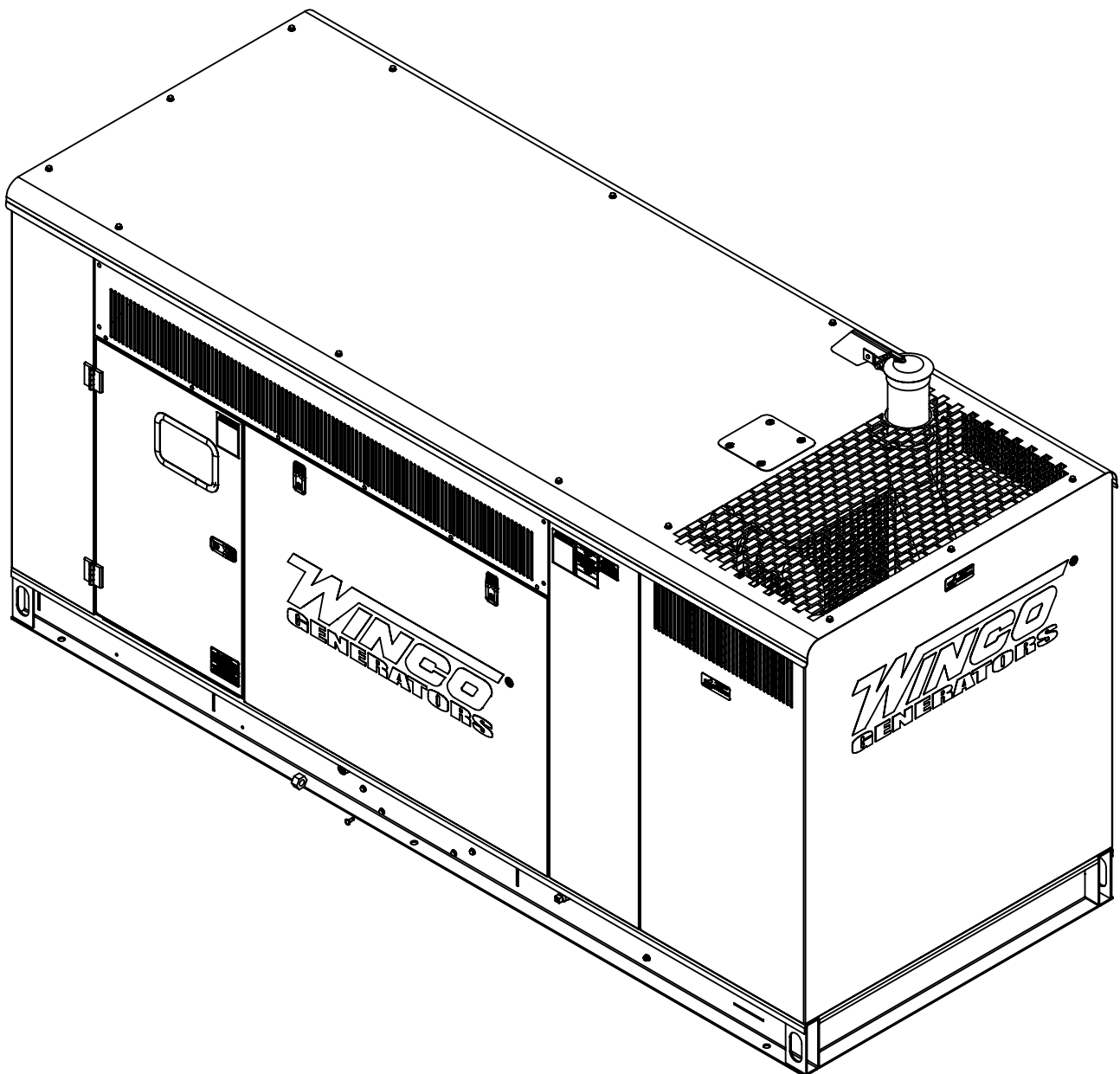


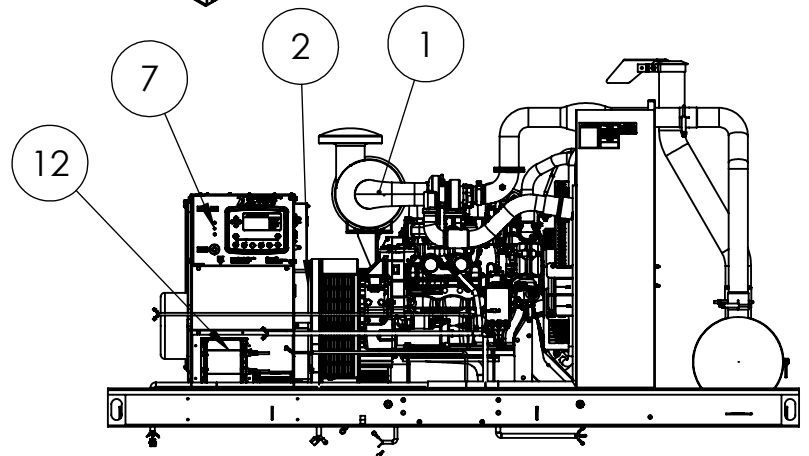
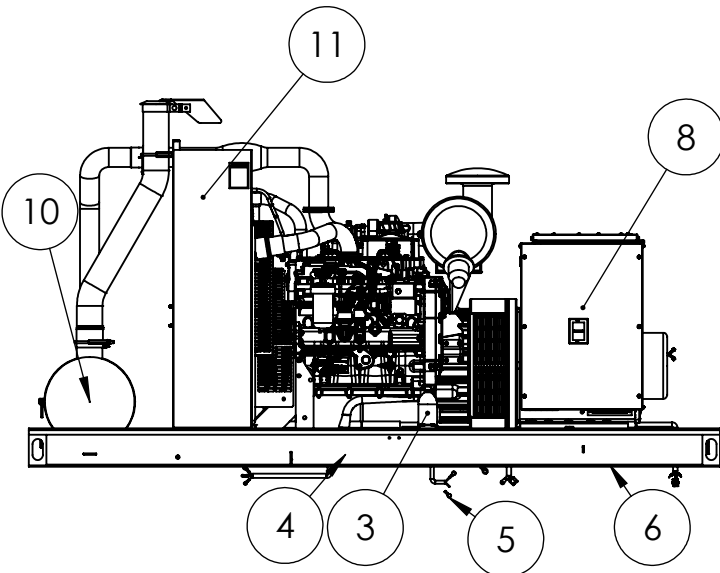
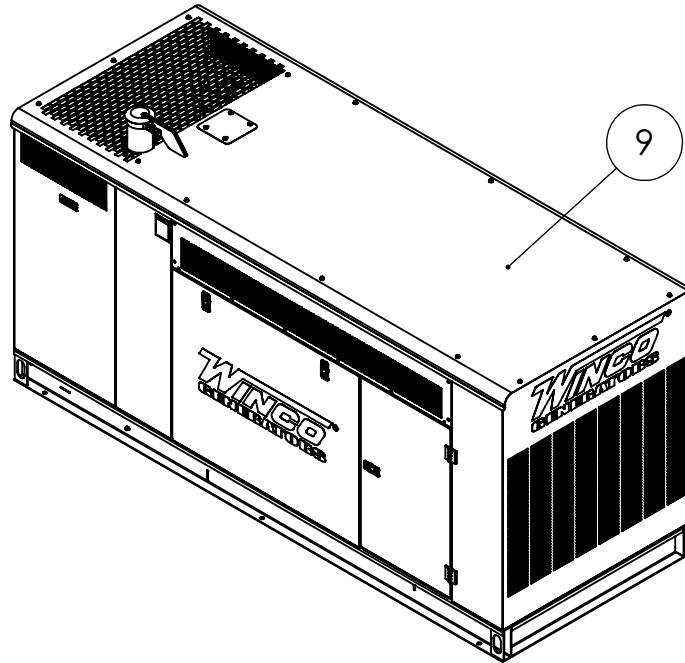


# DR90F4-XX/1 Parts List



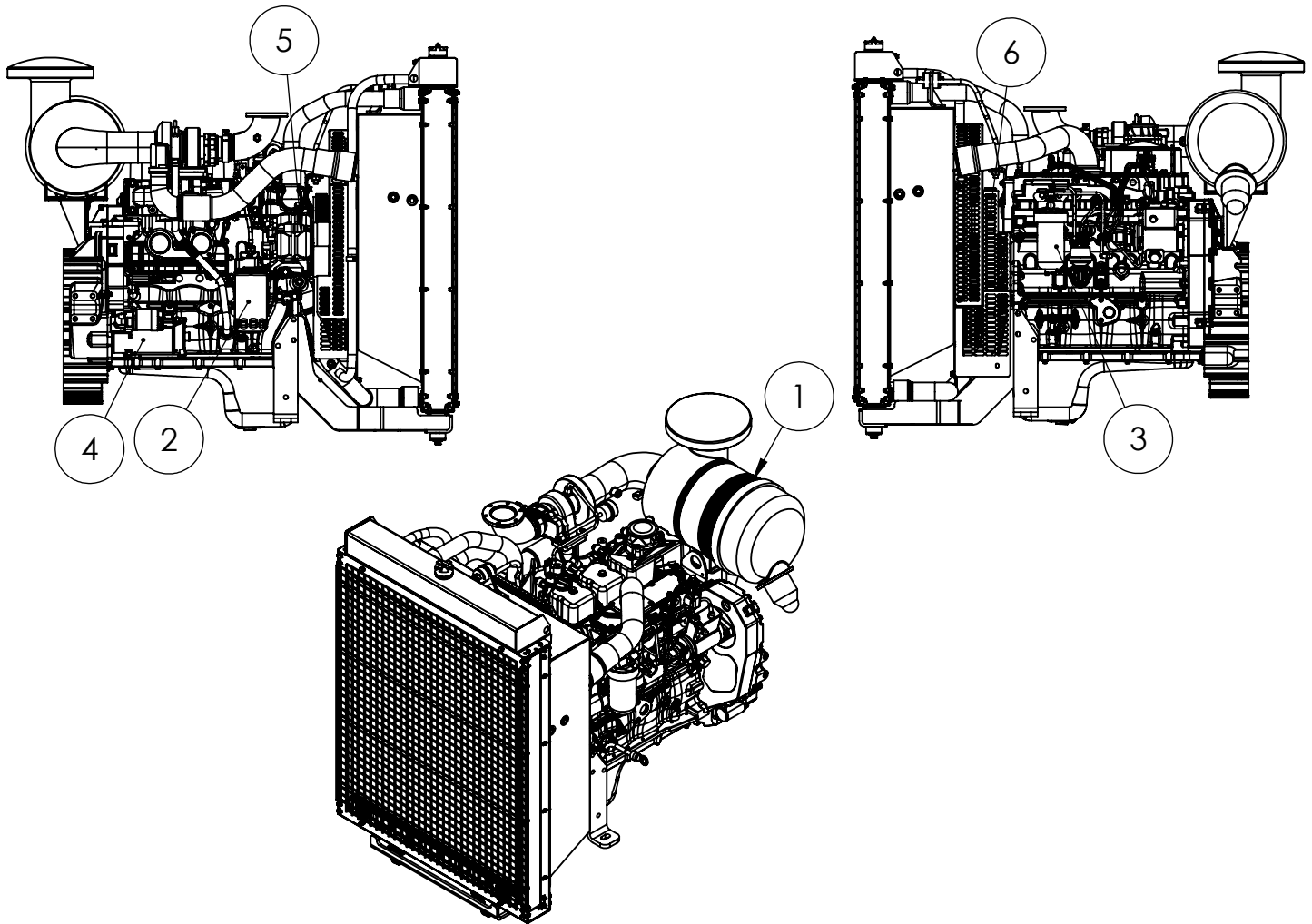
**WINCO Service**  
Phone: 507-357-6831  
Email: [service@wincogen.com](mailto:service@wincogen.com)  
[www.wincogen.com](http://www.wincogen.com)

# General Assembly



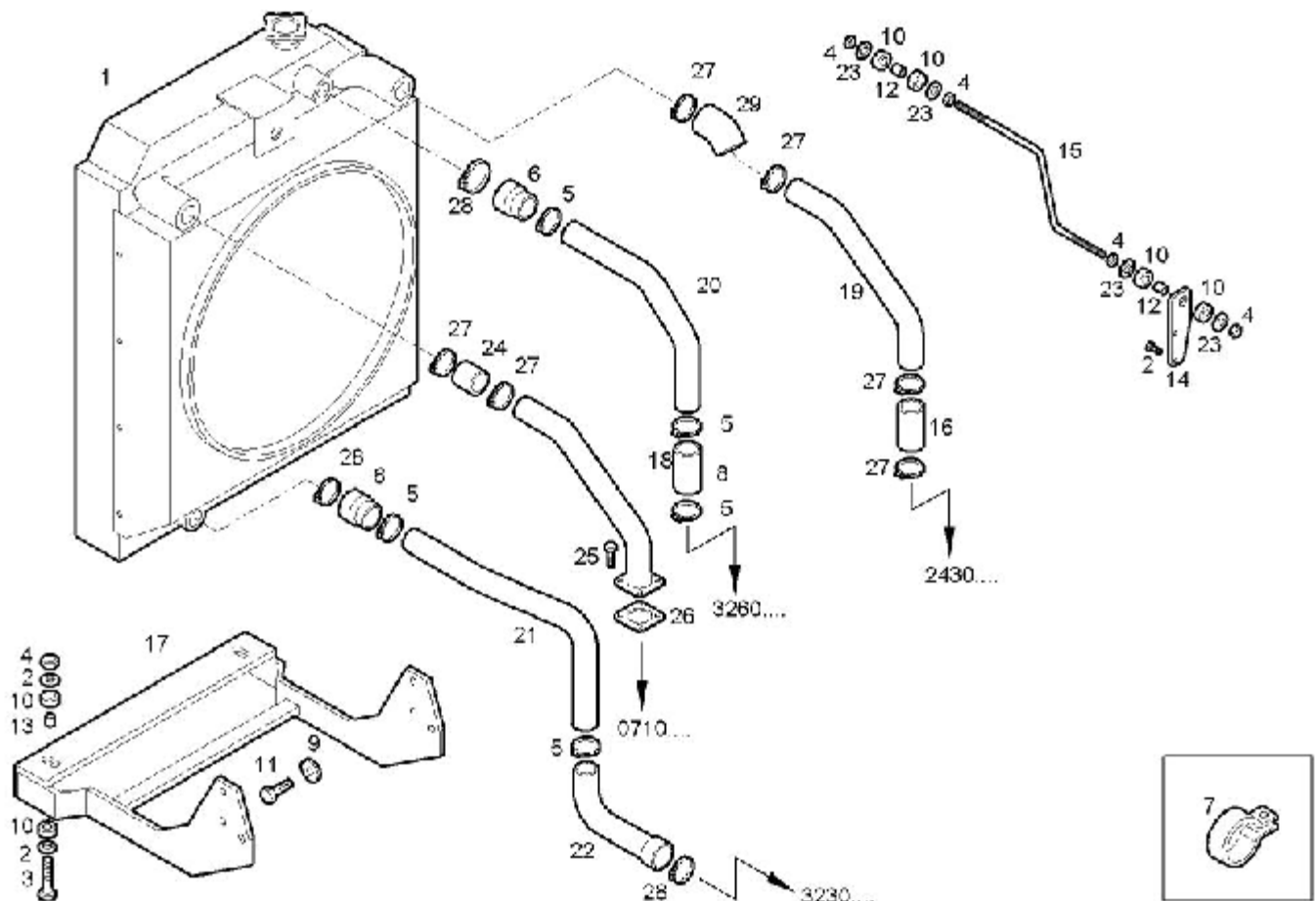
| ITEM NO. | PART NUMBER | DESCRIPTION                                                           | QTY. |
|----------|-------------|-----------------------------------------------------------------------|------|
| 1        | 350001-88S  | (ENGINE, IVECO, NEF45TM2X, TIER 3, SAE 3-11.5, STANDBY APPLICATIONS ) | 1    |
| 2        | 352013-1    | GEN END UCI274C1J SAE 3 11.5                                          | 1    |
| 3        | 409090-000  | BLOCK HEATER ASSEMBLY                                                 | 1    |
| 4        | 405090-002  | BATTERY TRAY KIT                                                      | 1    |
| 5        | 411090-003  | ENGINE HARNESS DR90 MKII                                              | 1    |
| 6        | 401090-300  | FRAME WELDMENT                                                        | 1    |
| 7        | 351903-40   | DSE MKII CONTROL PEDESTAL ASSEMBLY                                    | 1    |
| 8        | 99836-026   | CB ASSEMBLY 1PH                                                       | 1    |
| 9        | 473090-100  | HOUSING ASSEMBLY                                                      | 1    |
| 10       | 407090-300  | DR90 EXHAUST SYSTEM                                                   | 1    |
| 11       | 408090-003  | HARDWARE KIT DR90 STANDBY                                             | 1    |
| 12       | 352020-24   | BATTERY CHARGER KIT 12V 5 AMP                                         | 1    |

# Engine



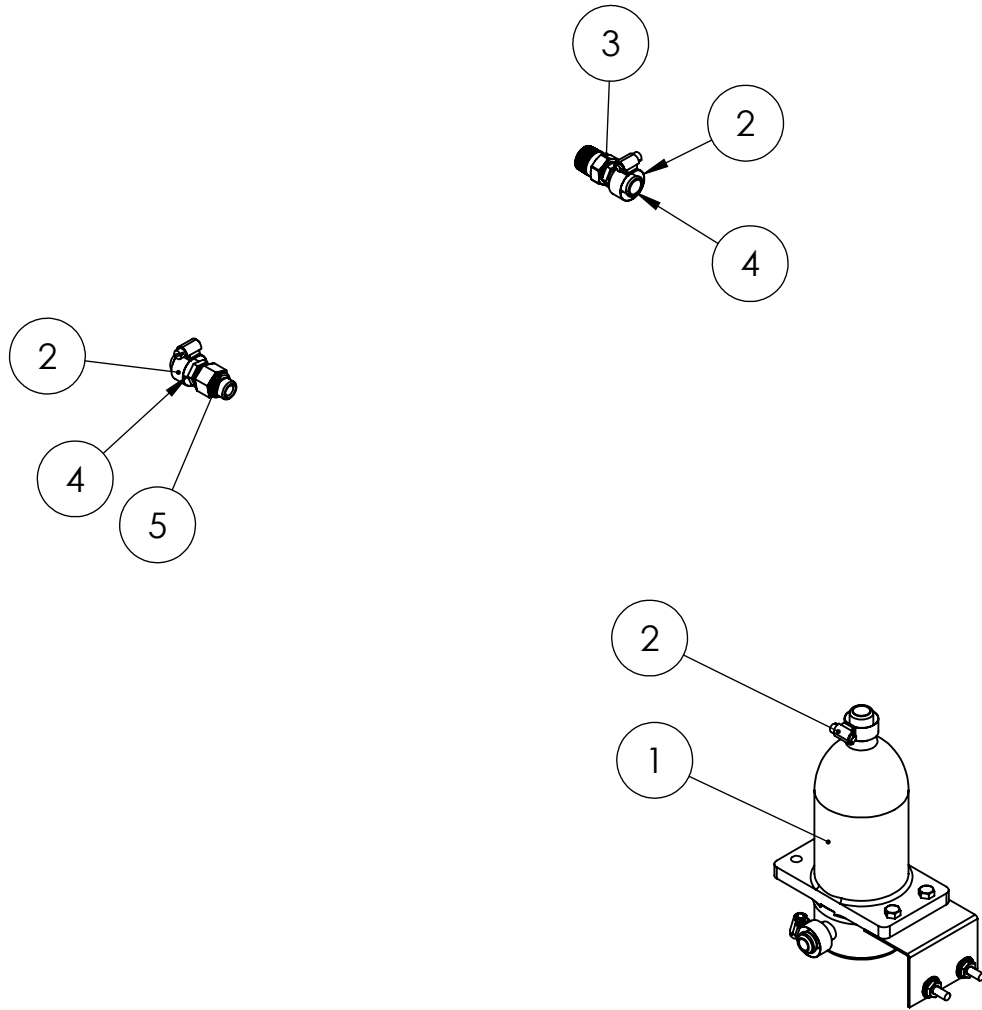
| ITEM NO.                                                                                   | PART NUMBER | DESCRIPTION   | QTY. |
|--------------------------------------------------------------------------------------------|-------------|---------------|------|
| 1                                                                                          | 8041322     | AIR FILTER    | 1    |
| 2                                                                                          | 6-101       | OIL FILTER    | 1    |
| 3                                                                                          | 6-102       | FUEL FILTER   | 1    |
| ALL ITEMS LISTED IN THE ABOVE TABLE ARE INCLUDED WITH A 16200-019 MAINTENANCE KIT PURCHASE |             |               |      |
| 4                                                                                          | 6-113       | STARTER MOTOR | 1    |
| 5                                                                                          | 6-152       | ALTERNATOR    | 1    |
| 6                                                                                          | 504013617   | FAN BELT      | 1    |
| Contact Winco service for full engine parts support.                                       |             |               |      |

# Radiator Hoses



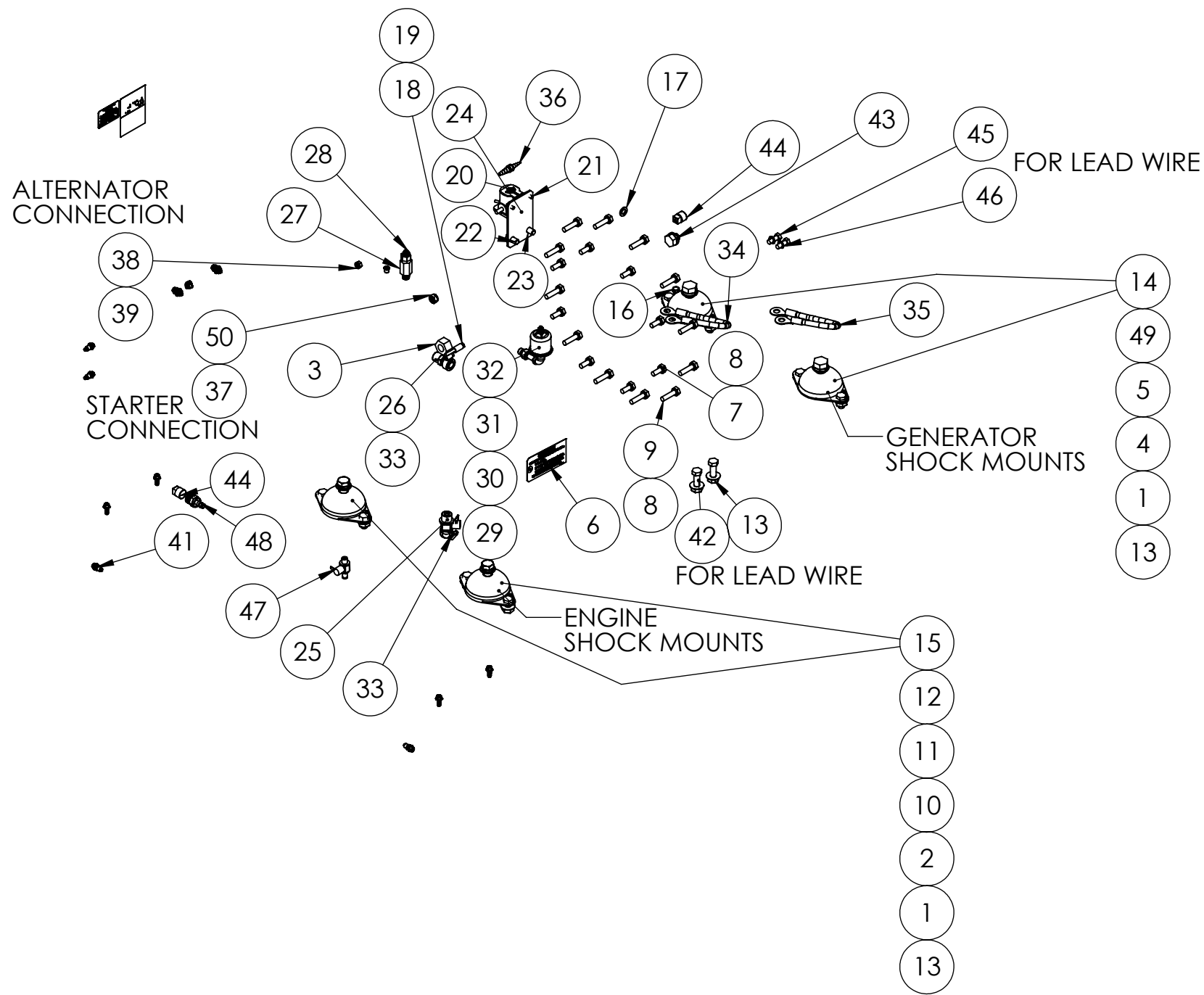
| ITEM NO. | PART NUMBER | DESCRIPTION                         | QTY. |
|----------|-------------|-------------------------------------|------|
| 6        | 6-153       | HOSE, UPPER RADIATOR LEFT OR MIDDLE | 2    |
| 8        | 6-154       | HOSE, RADIATOR, SHORT LOWER         | 1    |
| 16       | 6-155       | HOSE, RIGHT RADIATOR, SHORT LOWER   | 1    |
| 24       | 6-156       | HOSE, UPPER RADIATOR, LEFT          | 1    |
| 22       | 6-157       | HOSE, LOWER RADIATOR, LONG          | 1    |
| 29       | 6-158       | HOSE, UPPER RADIATOR, SHORT RIGHT   | 1    |

# Block Heater



| ITEM NO. | PART NUMBER | DESCRIPTION                        | QTY. |
|----------|-------------|------------------------------------|------|
| 1        | 80781-009   | PRE HEATER 1800W/120V TANK HEATER  | 1    |
| 2        | 81018-005   | HOSE CLAMP 1.0625-.500             | 4    |
| 3        | 56372-000   | HEX REDUCER BUSHING 1/2 -3/8 NPT   | 1    |
| 4        | 92388-000   | HOSE FIT .375NPT X .625 HOSE       | 2    |
| 5        | 300349-9    | ADAPTER M18X1.5(M) X 3/8-18NPT (F) | 1    |
| 6        | 56107-000   | HOSE 0.625ID HTR RED 26IN LONG     | 1    |
| 7        | 56107-000   | HOSE 0.625ID HTR RED 50IN LONG     | 1    |

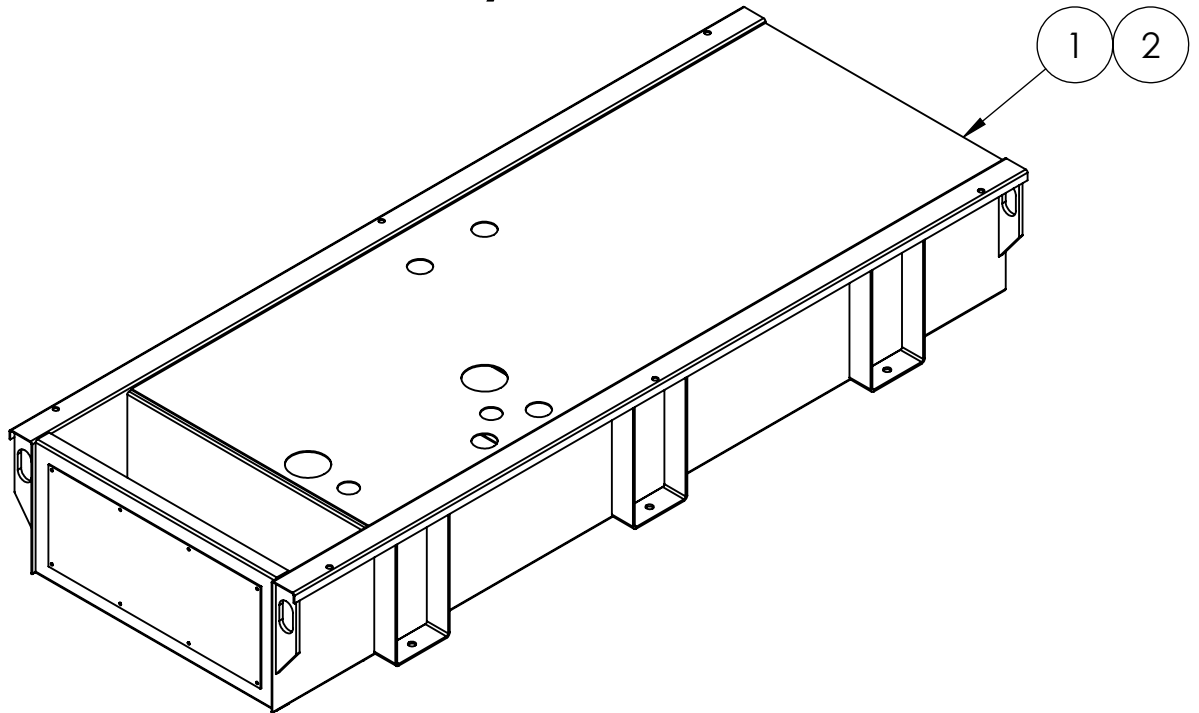
# Hardware Kit



## Hardware Kit Continued

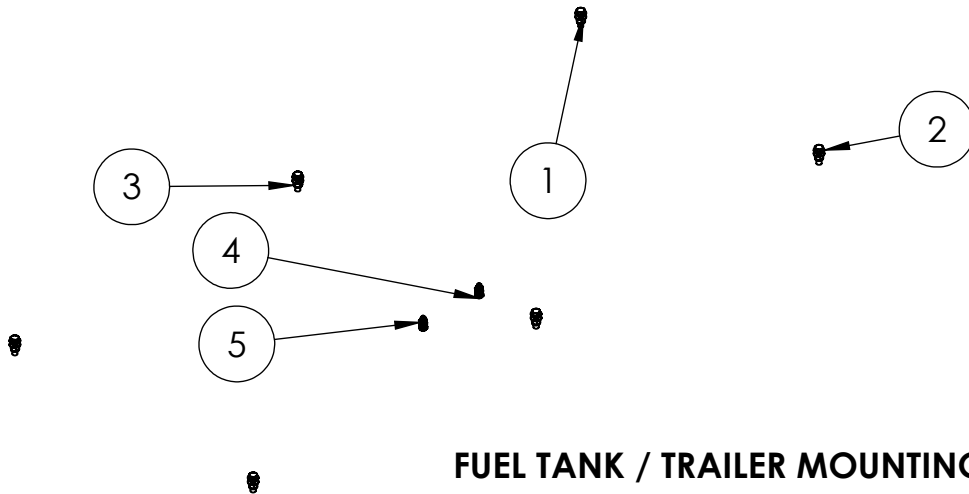
| ITEM NO. | PART NUMBER | DESCRIPTION                                         | QTY. |
|----------|-------------|-----------------------------------------------------|------|
| 1        | 48178-000   | HHCS 1/2-13 X 1                                     | 8    |
| 2        | 448-000     | 5/8-11, Heavy Hex Nut                               | 2    |
| 3        | 93709-000   | NUT HEX .75-10                                      | 3    |
| 4        | 93711-000   | .75-10X2 HHB                                        | 2    |
| 5        | 93710-000   | ID.77 OD1.25 TH.20 LOCK                             | 2    |
| 6        | 60710-097   | TAG OIL WARNING                                     | 1    |
| 7        | 96003-025   | M10-1.5X25MM                                        | 8    |
| 8        | 97436-010   | M10 LOCKWASHER                                      | 20   |
| 9        | 96003-040   | HHCS M10-1.5X 40MM BLACK                            | 12   |
| 10       | 516-000     | FLAT WASHER 5/8 I.D. 1.31 O.D. STEEL ZINC           | 2    |
| 11       | 3577-000    | 5/8 LOCKWASHER SPLIT                                | 2    |
| 12       | 91083-001   | HHCS 5/8-11 X 1.5 GR5                               | 2    |
| 13       | 16248-001   | .5-13 FLANGE NUT                                    | 10   |
| 14       | 350944-1    | SHOCKMOUNT 40 DURO                                  | 2    |
| 15       | 98987-000   | SHOCKMOUNT 800LB .625 HEAVY NUT (WHITE -01 STAMPED) | 2    |
| 16       | 62173-001   | SELF TAP.SC. 5/16-18X.5                             | 1    |
| 17       | 93341-012   | LOCKWASHER M12 ZINC                                 | 1    |
| 18       | 75139-050   | HHCS M6-1 X 50MM ZINC                               | 1    |
| 19       | 62825-003   | SPACER .318ID X 7/8LG                               | 1    |
| 20       | 80980-000   | START SOLENOID                                      | 1    |
| 21       | 55440-000   | .25-02X.5 SELF TAP                                  | 2    |
| 22       | 94270-020   | HHCS M12-175X 20MM                                  | 2    |
| 23       | 20039-000   | LOCKWASHER 1/2 EXTERNAL TOOTH                       | 2    |
| 24       | 350740-2    | MOUNTING BRACKET START SOLENOID                     | 1    |
| 25       | 98906-018   | OIL DRAIN VALVE M22 X 5/8 90HB                      | 1    |
| 26       | 92388-001   | HOSE FIT 1/2 NPT X 5/8 HOSE                         | 1    |
| 27       | 300349-1    | OIL DRAIN ADAPTER                                   | 1    |
| 28       | 99265-001   | WATER TEMP SENDER 3/8"-18NPT                        | 1    |
| 29       | 300349-5    | ADAPTER M14-1.5M X 1/8 27 NPT F                     | 1    |
| 30       | 92386-002   | PIPE NIPPLE 1/8 NPT X 1.5"                          | 1    |
| 31       | 23885-000   | ELBOW PIPE 1/8NPT 90                                | 1    |
| 32       | 99267-003   | OIL PRESSURE SENDER                                 | 1    |
| 33       | 81018-005   | HOSE CLAMP 1.0625-.500                              | 2    |
| 34       | 93542-010   | LEAD WIRE ASSY                                      | 1    |
| 35       | 93542-017   | LEAD WIRE ASSY                                      | 1    |
| 36       | 98590-003   | HOSE REDUCER 1/8-5/16 X 1/4-7/16                    | 1    |
| 37       | 93341-010   | LOCKWASHER M10 ZINC                                 | 1    |
| 38       | 93341-008   | LOCKWASHER M8                                       | 1    |
| 39       | 94442-003   | NUT HEX M8-1.25 ZINC                                | 1    |
| 41       | 352120-2    | 1/4-20 X .75 FHCS                                   | 6    |
| 42       | 1516-000    | .5-13X1.25 HHB                                      | 2    |
| 43       | 15012-002   | FLYWHEEL PLUG, IVECO                                | 1    |
| 44       | 93084-000   | PIPE PLUG .50 GALV                                  | 2    |
| 45       | 91658-001   | .375 - 16 X1 HHB                                    | 2    |
| 46       | 4516-001    | LOCKWASHER 3/8 EXTERNAL TOOTH                       | 2    |
| 47       | 98906-022   | OIL DRAIN VALVE M12-1.50 X 3/8                      | 1    |
| 48       | 94319-008   | HOSE FIT. .500-14NPT X .375 HOSE BARB               | 1    |
| 49       | 1178-000    | FLAT WASHER .760 X 1.375 X .0897                    | 2    |
| 50       | 94442-005   | NUT HEX M10-1.5                                     | 1    |

# Fuel System



## FUEL TANK OPTIONS

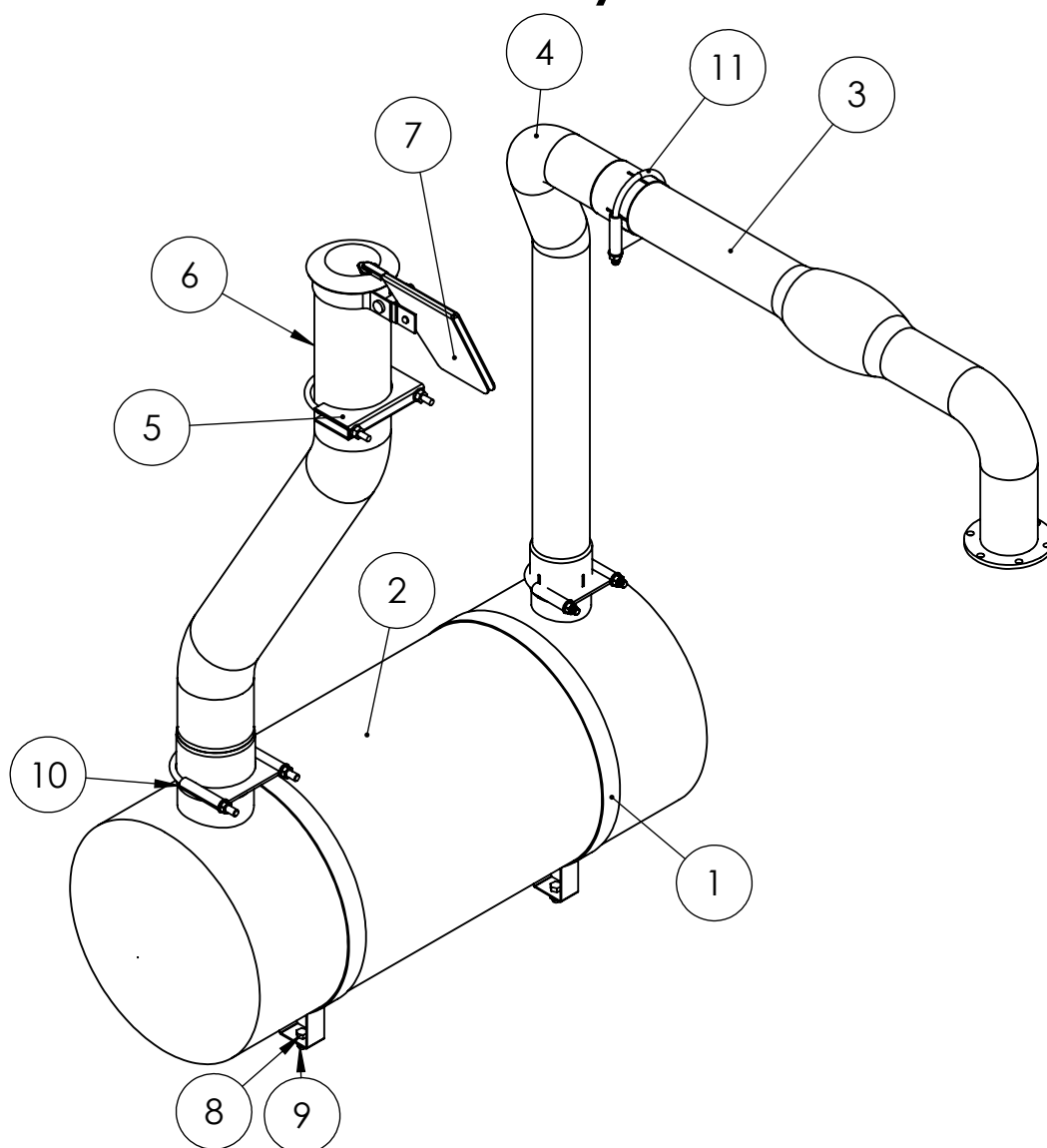
| ITEM NO. | PART NUMBER | DESCRIPTION         | QTY |
|----------|-------------|---------------------|-----|
| 1        | 350041-125  | 180 GAL, UL142 TANK | 1   |
| 2        | 350041-126  | 320 GAL, UL142 TANK | 1   |



## FUEL TANK / TRAILER MOUNTING KIT

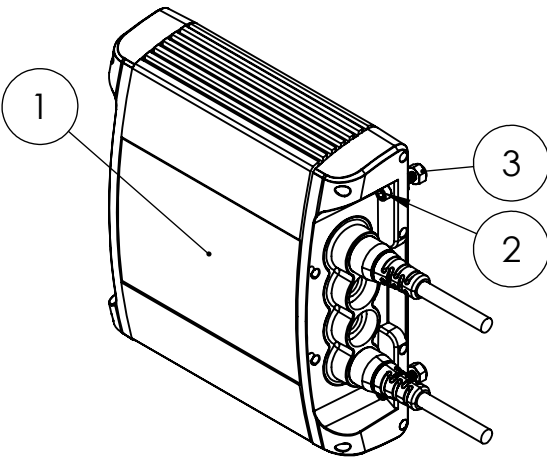
| ITEM NO. | PART NUMBER | DESCRIPTION                               | QTY. |
|----------|-------------|-------------------------------------------|------|
| 1        | 91083-004   | .625-11X2 HHCS GR5                        | 6    |
| 2        | 516-000     | FLAT WASHER 5/8 I.D. 1.31 O.D. STEEL ZINC | 12   |
| 3        | 95468-000   | .625-11 NYLOCK                            | 6    |
| 4        | 94319-008   | HOSE FIT. .500-14NPT X .375 HOSE BARB     | 2    |
| 5        | 81018-009   | HOSE CLAMP .625-.250                      | 2    |
| 6        | 55505-000   | HOSE .375ID RUBBER 29IN                   | 29   |
| 7        | 55505-000   | HOSE .375ID RUBBER 30IN                   | 30   |

# Exhaust System

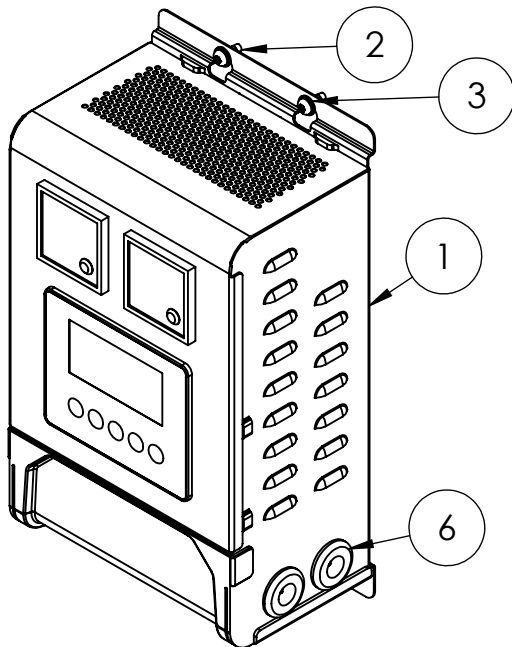


| ITEM NO. | PART NUMBER | DESCRIPTION              | QTY. |
|----------|-------------|--------------------------|------|
| 1        | 350264-6    | MOUNTING BAND            | 2    |
| 2        | 407090-000  | CRITICAL GRADE SILENCER  | 1    |
| 3        | 407090-006  | EXHAUST FLEX             | 1    |
| 4        | 407090-301  | EXHAUST INLET EXTENSION  | 1    |
| 5        | 93489-008   | MUFFLER CLAMP 4"         | 1    |
| 6        | 407090-302  | TAIL PIPE                | 1    |
| 7        | 53111-013   | 4" RAIN CAP              | 1    |
| 8        | 91658-011   | .375-16X.75 HHB          | 4    |
| 9        | 16250-000   | FLANGE NUT 3/8-16        | 4    |
| 10       | 93489-020   | 4.125 INCH MUFFLER CLAMP | 1    |
| 11       | 93489-021   | 3.125 INCH MUFFLER CLAMP | 2    |

## Battery Chargers

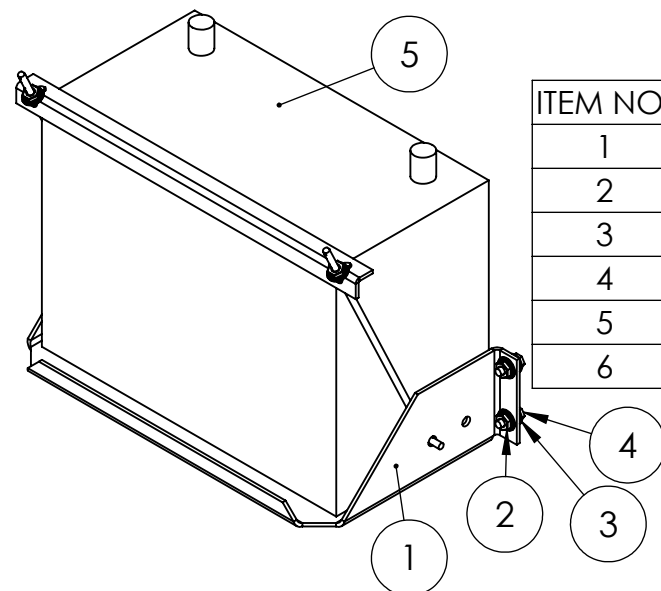


| ITEM NO. | PART NUMBER | DESCRIPTION                                               | QTY. |
|----------|-------------|-----------------------------------------------------------|------|
| 1        | 72036-023   | BATTERY CHARGER, 120VAC/12VDC, 5.0 AMP, GUEST MODEL 2708A | 1    |
| 2        | 64872-001   | SOC.HCS 10-24 X 1 BLK                                     | 4    |
| 3        | 5315-000    | NUT HEX 10-24 NYLON                                       | 4    |



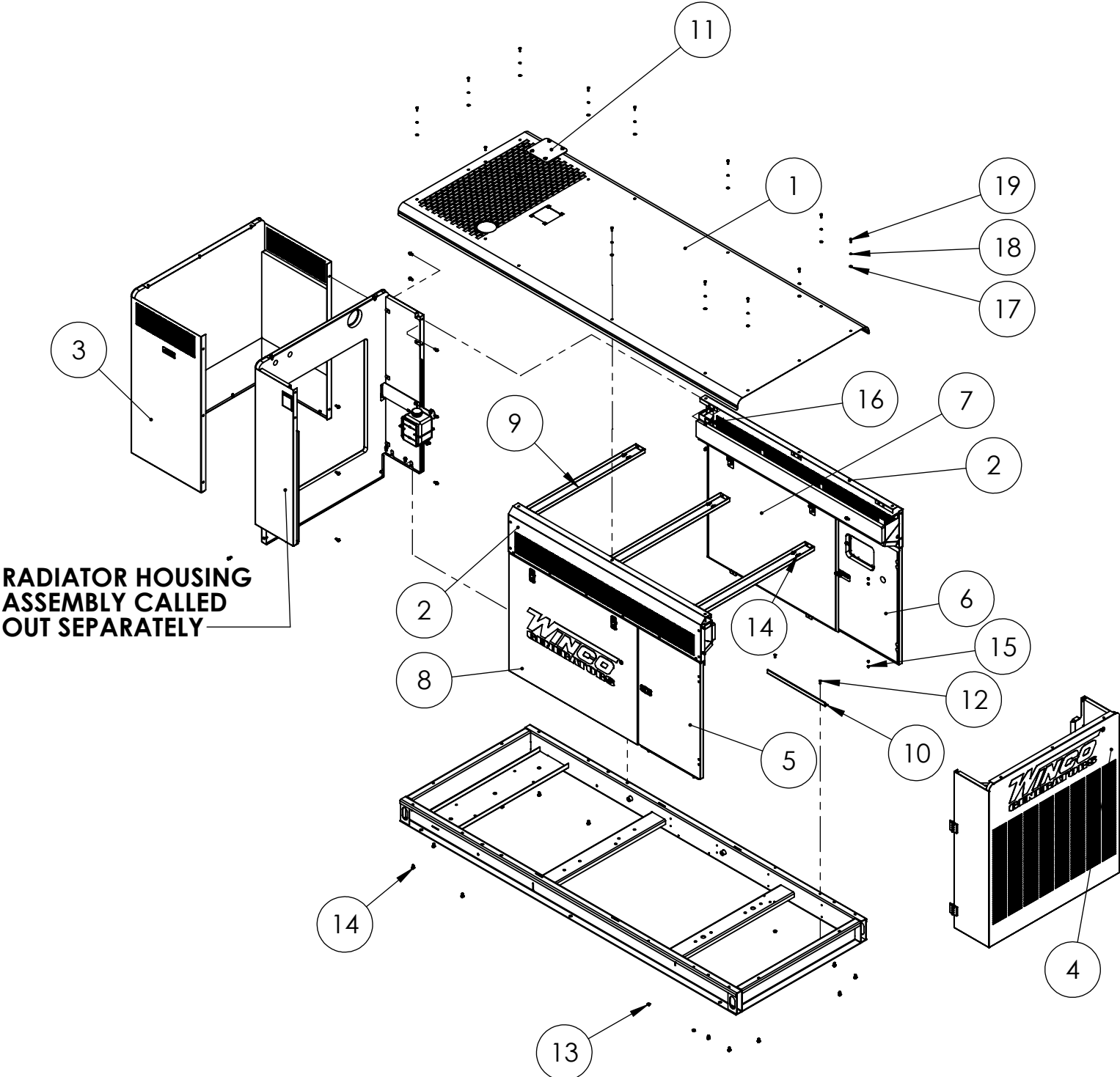
| ITEM NO. | PART NUMBER | DESCRIPTION                                                                  | QTY. |
|----------|-------------|------------------------------------------------------------------------------|------|
| 1        | 72036-020   | BATTERY CHARGER, 12VDC, 10AMP, DSE MODEL BC2410EI-02 LCD AND METERS NFPA 110 | 1    |
| 2        | 21698-001   | TORX PAN HEAD SCREW #10                                                      | 4    |
| 3        | 598-000     | #10 WASHER                                                                   | 4    |
| 4        | 7547-000    | TERMINAL RING 16/14AWG .375 STUD                                             | 2    |
| 5        | 96922-001   | PWR.SUP.CORD, 16/3, 8 FEET W/5-15P PLUG                                      | 1    |
| 6        | 40730-000   | GROMMET .5ID X .8125                                                         | 3    |
| 7        | 2489-004    | IN-LINE FUSE HOLDER                                                          | 1    |
| 8        | 95064-006   | FUSE AGC 10 AMP                                                              | 1    |

## Battery Tray



| ITEM NO. | PART NUMBER | DESCRIPTION           | QTY. |
|----------|-------------|-----------------------|------|
| 1        | 405090-105  | BATTERY TRAY          | 1    |
| 2        | 16248-000   | .25-20 FLANGE NUT     | 6    |
| 3        | 65005-000   | .25 WASHER SS         | 6    |
| 4        | 65000-001   | .25-20X.75 SS HHCS    | 6    |
| 5        | REF ONLY    | GROUP 31 BATTERY      | 1    |
| 6        | 99288-005   | BATTERY HOLD DOWN KIT | 1    |

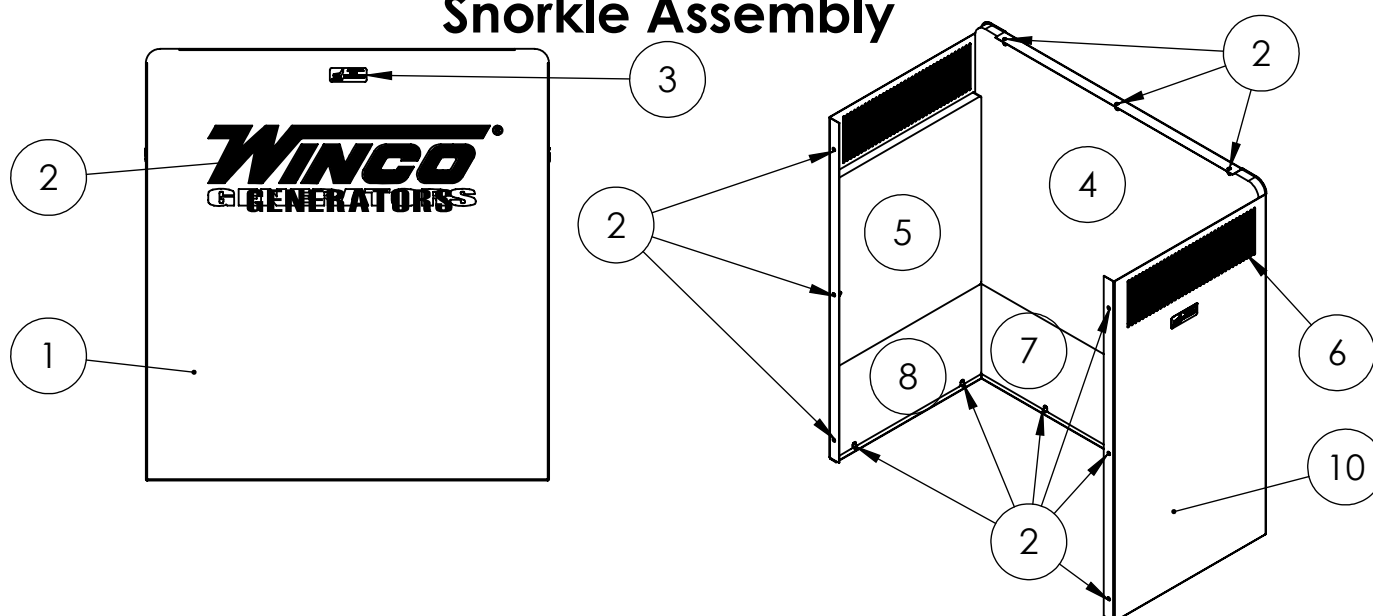
# Housing



## Housing Continued

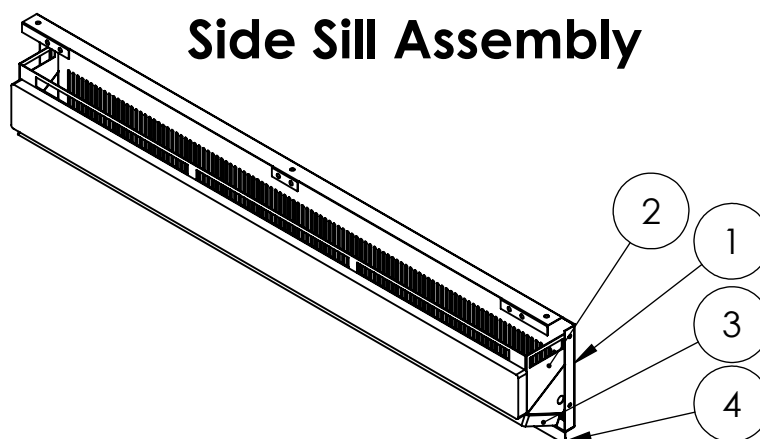
| ITEM NO. | PART NUMBER | DESCRIPTION                       | QTY. |
|----------|-------------|-----------------------------------|------|
| 1        | 487090-111  | ROOF                              | 1    |
| 2        | 487090-103  | SIDE SILL ASSEMBLY                | 2    |
| 3        | 487090-102  | SNORKEL                           | 1    |
| 4        | 487090-105  | REAR PANEL                        | 1    |
| 5        | 487090-108  | CB DOOR                           | 1    |
| 6        | 487090-107  | CONTROLLER DOOR                   | 1    |
| 7        | 487090-109  | CONTROL SIDE PANEL                | 1    |
| 8        | 487090-110  | CB SIDE PANEL                     | 1    |
| 9        | 487090-113  | ROOF SUPPORT                      | 3    |
| 10       | 487090-114  | DOOR STOP                         | 2    |
| 11       | 487090-112  | ROOF COVER                        | 1    |
| 12       | 98879-001   | THREAD STUD 5/16-18 X .75         | 4    |
| 13       | 16249-000   | .3125-18 FLANGE                   | 4    |
| 14       | 352120-2    | 1/4-20 X .75 FHCS                 | 38   |
| 15       | 16446-000   | M8-1.25 NYLOCK                    | 8    |
| 16       | 16248-000   | .25-20 FLANGE NUT                 | 4    |
| 17       | 65005-000   | .25 WASHER SS                     | 14   |
| 18       | 65003-000   | SS LOCK WASHER ID.25 OD.475 TH.07 | 14   |
| 19       | 65000-001   | .25-20X.75 SS HHCS                | 14   |

## Snorkle Assembly



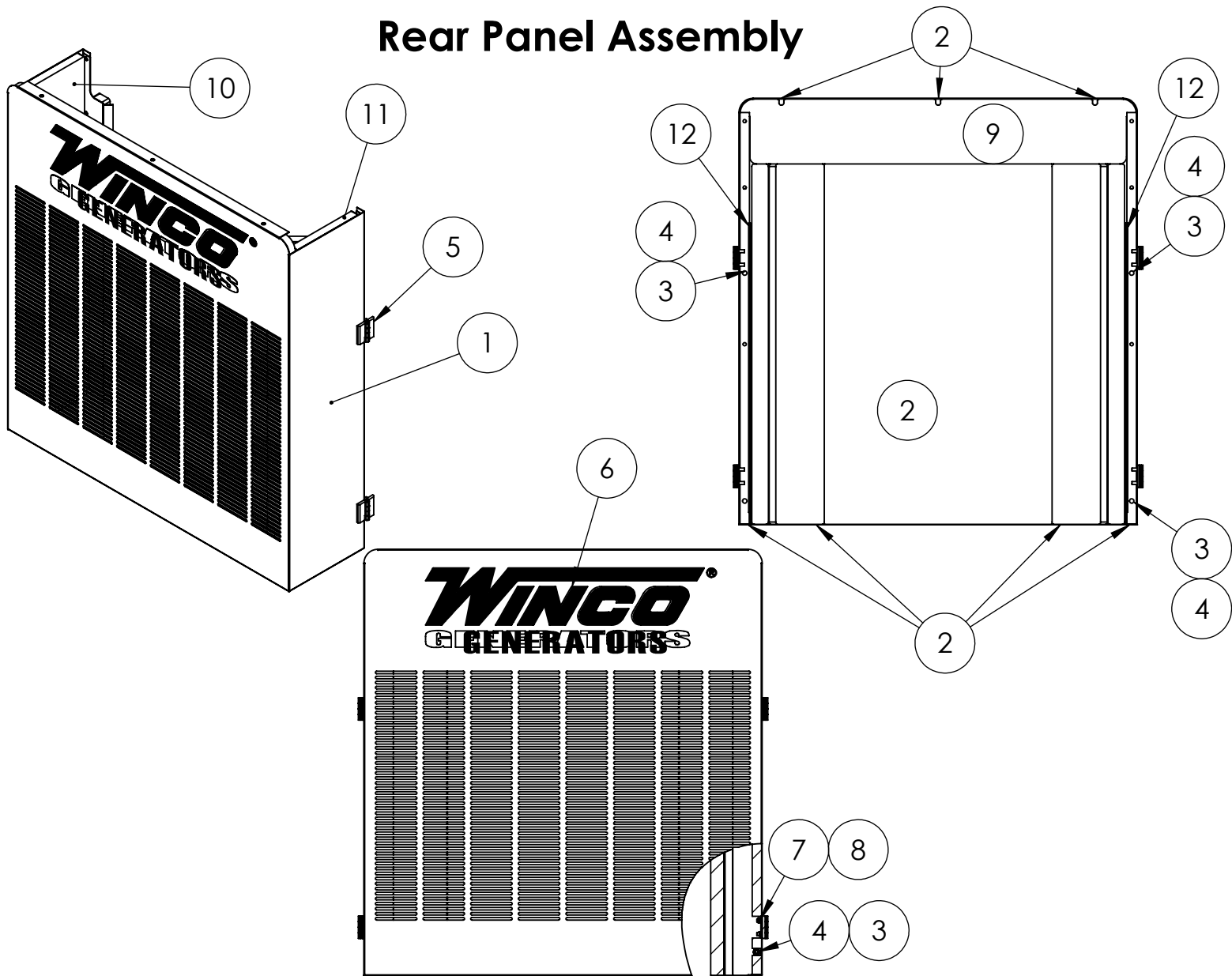
| ITEM NO. | PART NUMBER | DESCRIPTION          | QTY. |
|----------|-------------|----------------------|------|
| 1        | 487090-102  | SNORKEL              | 1    |
| 2        | 98313-000   | WINCO LOGO           | 1    |
| 3        | 63941-001   | DECAL - HOT SURFACES | 3    |
| 4        | 492090-107  | FRONT TOP FOAM       | 1    |
| 5        | 492090-109  | TOP LEFT FOAM        | 1    |
| 6        | 492090-108  | TOP RIGHT FOAM       | 1    |
| 7        | 492090-104  | BOTTOM FRONT FOAM    | 1    |
| 8        | 492090-106  | BOTTOM LEFT FOAM     | 1    |
| 9        | 492090-105  | BOTTOM RIGHT FOAM    | 1    |

## Side Sill Assembly



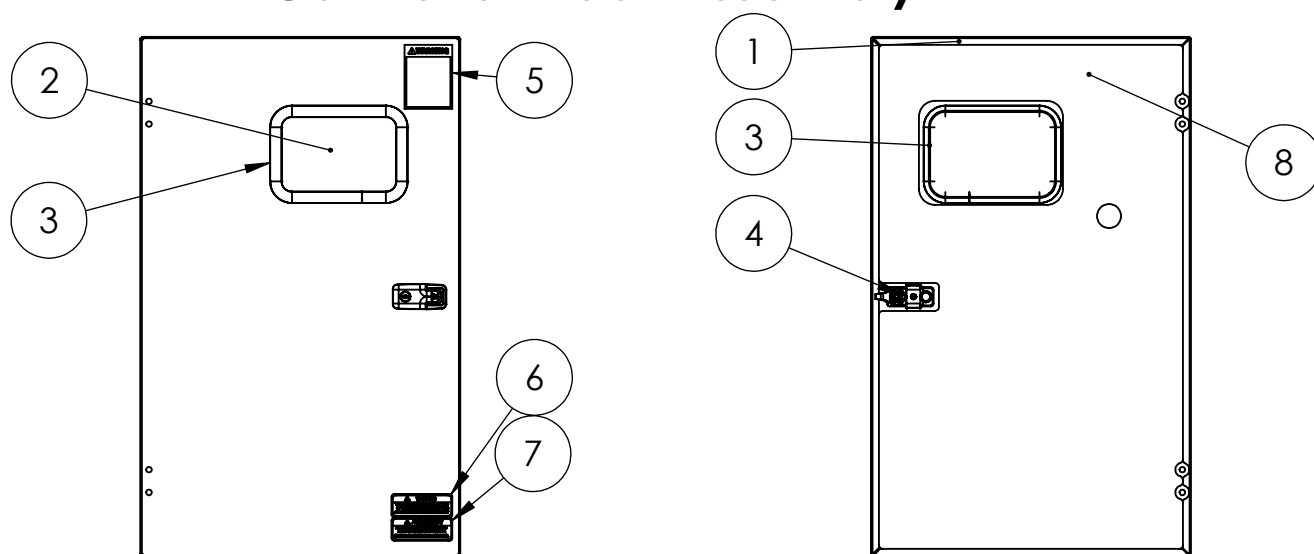
| ITEM NO. | PART NUMBER | DESCRIPTION                 | QTY. |
|----------|-------------|-----------------------------|------|
| 1        | 487090-103  | SIDE SILL                   | 1    |
| 2        | 487090-104  | SIDE SILL BAFFLE            | 1    |
| 3        | 492090-110  | SIDE SILL BAFFLE FOAM       | 2    |
| 4        | 62912-000   | .500 X .125 FOAM 61.75 LONG | 1    |
| 5        | 16248-000   | .25-20 FLANGE NUT           | 10   |
| 6        | 94980-001   | THREAD STUD .25-20X.625     | 10   |

## Rear Panel Assembly



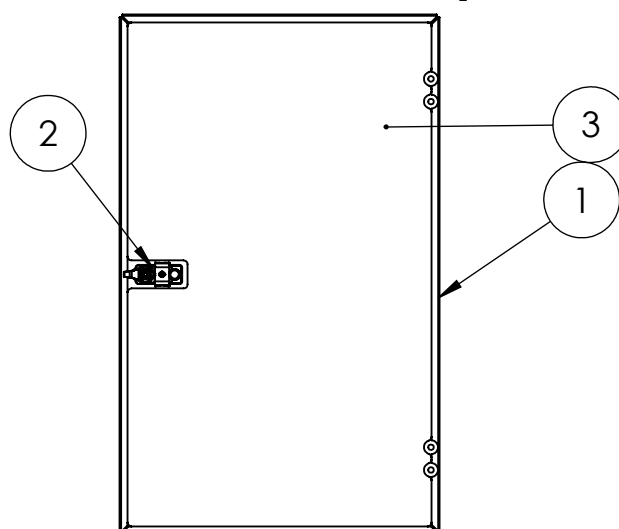
| ITEM NO. | PART NUMBER | DESCRIPTION                |   |
|----------|-------------|----------------------------|---|
| 1        | 487090-105  | REAR PANEL                 | 1 |
| 2        | 487090-106  | REAR BAFFLE                | 1 |
| 3        | 98879-001   | THREAD STUD 5/16-18 X .75  | 4 |
| 4        | 16249-000   | .3125-18 FLANGE            | 4 |
| 5        | 350054-5    | HINGE BLACK                | 4 |
| 6        | 98313-000   | WINCO LOGO                 | 1 |
| 7        | 63841-008   | M8 X 16MM FLAT WASHER      | 8 |
| 8        | 16446-000   | M8-1.25 NYLOCK             | 8 |
| 9        | 492090-114  | REAR PANEL FOAM            | 1 |
| 10       | 492090-115  | REAR PANEL LEFT SIDE FOAM  | 1 |
| 11       | 492090-116  | REAR PANEL RIGHT FOAM      | 1 |
| 12       | 62912-000   | .500 X .125 FOAM 30.5 LONG | 2 |

## Controller Door Assembly



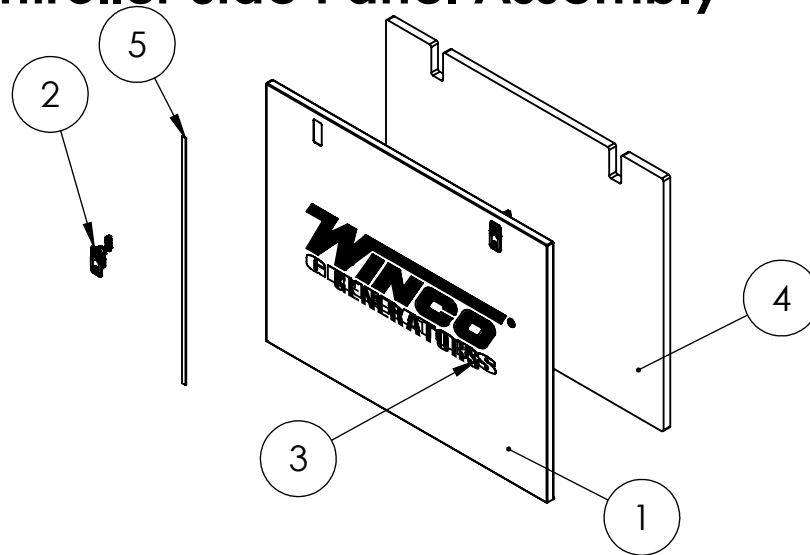
| ITEM NO. | PART NUMBER | DESCRIPTION               | QTY. |
|----------|-------------|---------------------------|------|
| 1        | 487090-107  | CONTROLLER DOOR           | 1    |
| 2        | 351556-1    | WINDOW PANEL              | 1    |
| 3        | 351597      | WEATHER STRIP WINDOW SEAL | 1    |
| 4        | 95229-004   | LATCH                     | 1    |
| 5        | 97813-000   | DECAL-WARNING CYCLE CRANK | 1    |
| 6        | 63941-003   | DECAL-WARNING NO SPARK    | 1    |
| 7        | 63941-103   | DECAL-WARNING NO SPARK    | 1    |
| 8        | 492090-117  | CONTROLLER DOOR FOAM      | 1    |

## CB Door Assembly



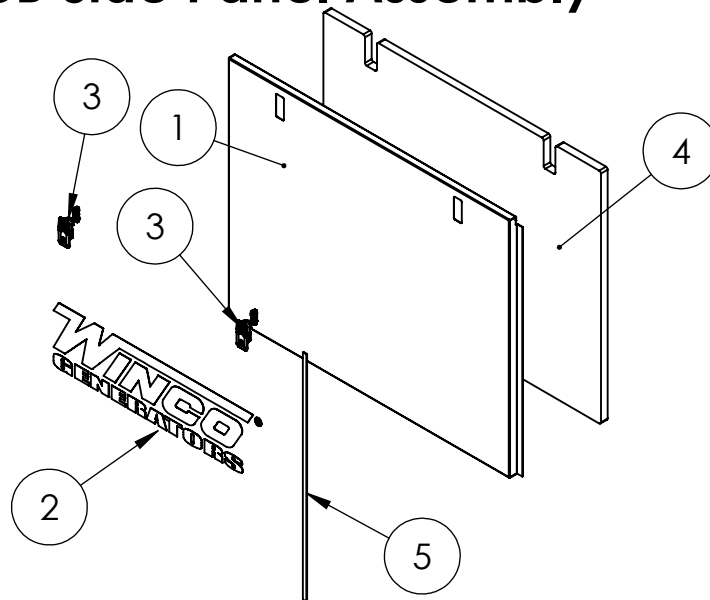
| ITEM NO. | PART NUMBER | DESCRIPTION  | QTY. |
|----------|-------------|--------------|------|
| 1        | 487090-108  | CB DOOR      | 1    |
| 2        | 95229-004   | LATCH        | 1    |
| 3        | 492090-118  | CB DOOR FOAM | 1    |

## Controller Side Panel Assembly



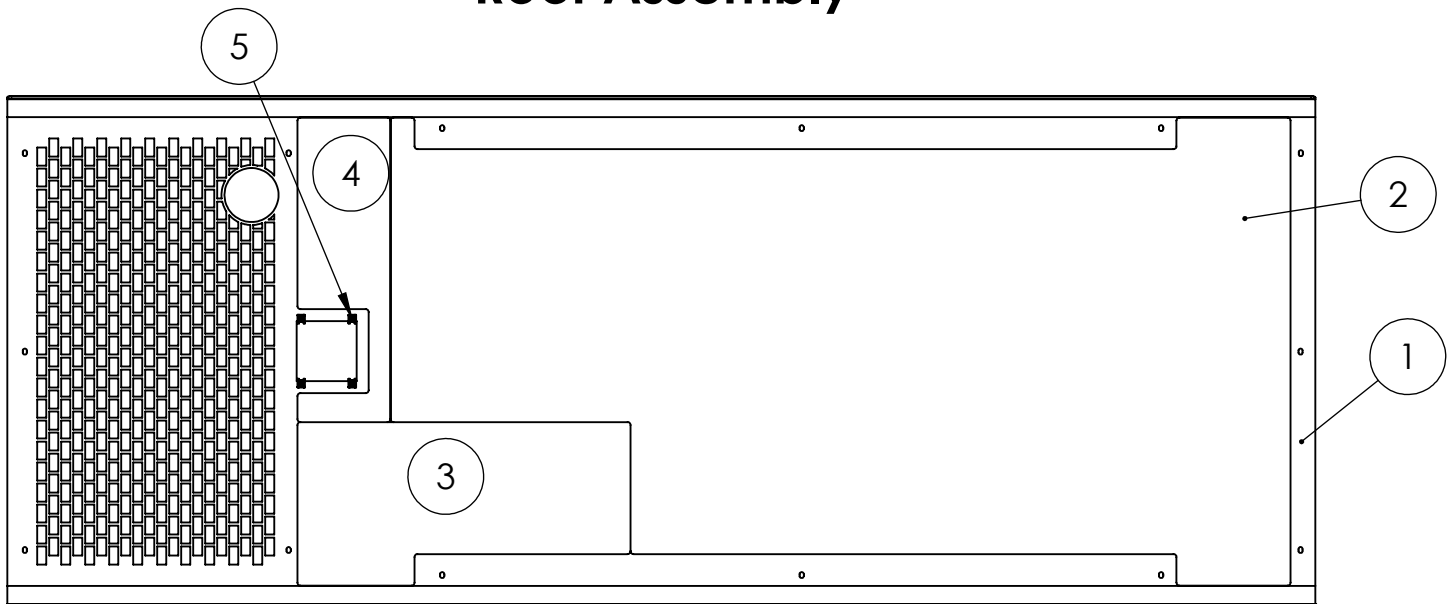
| ITEM NO. | PART NUMBER | DESCRIPTION                | QTY. |
|----------|-------------|----------------------------|------|
| 1        | 487090-109  | CONTROL SIDE PANEL         | 1    |
| 2        | 95229-004   | LATCH                      | 2    |
| 3        | 98313-000   | WINCO LOGO                 | 1    |
| 4        | 492090-119  | CONTROL SIDE PANEL FOAM    | 1    |
| 5        | 62912-000   | .500 X .125 FOAM 31.5 LONG | 1    |

## CB Side Panel Assembly



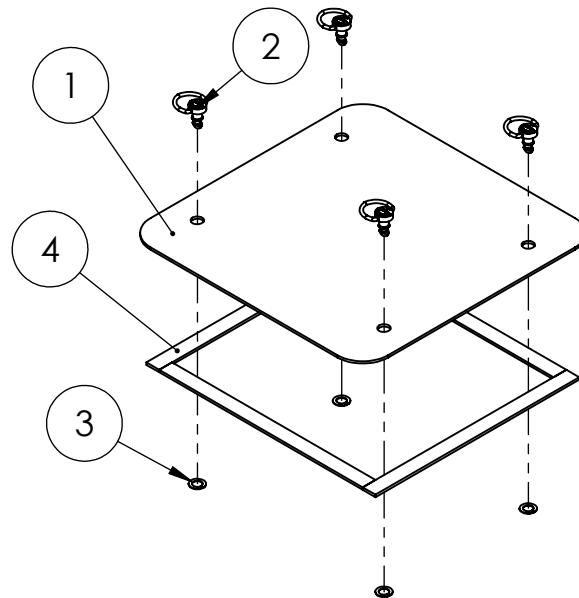
| ITEM NO. | PART NUMBER | DESCRIPTION                | QTY. |
|----------|-------------|----------------------------|------|
| 1        | 487090-110  | CB SIDE PANEL              | 1    |
| 2        | 98313-000   | WINCO LOGO                 | 1    |
| 3        | 95229-004   | LATCH                      | 2    |
| 4        | 492090-120  | CB SIDE PANEL FOAM         | 1    |
| 5        | 62912-000   | .500 X .125 FOAM 31.5 LONG | 1    |

## Roof Assembly



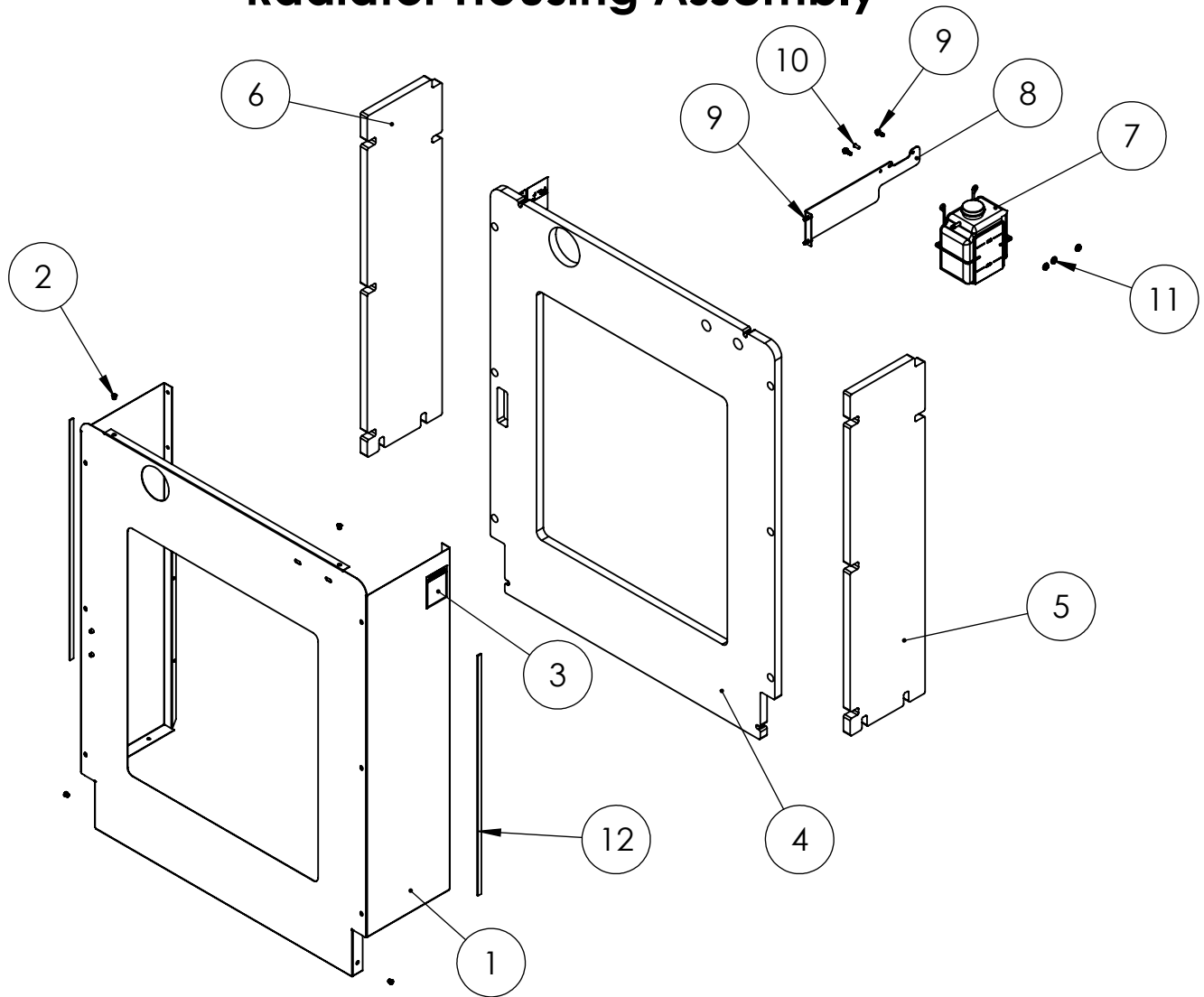
| ITEM NO. | PART NUMBER | DESCRIPTION       |   |
|----------|-------------|-------------------|---|
| 1        | 487090-111  | ROOF              | 1 |
| 2        | 492090-121  | ROOF FOAM         | 1 |
| 3        | 492090-123  | ROOF HEAT FOAM    | 1 |
| 4        | 492090-122  | ROOF FOAM FRONT   | 1 |
| 5        | 91683-000   | 1/4 TURN CLIP NUT | 4 |

## Roof Cover Plate Assembly



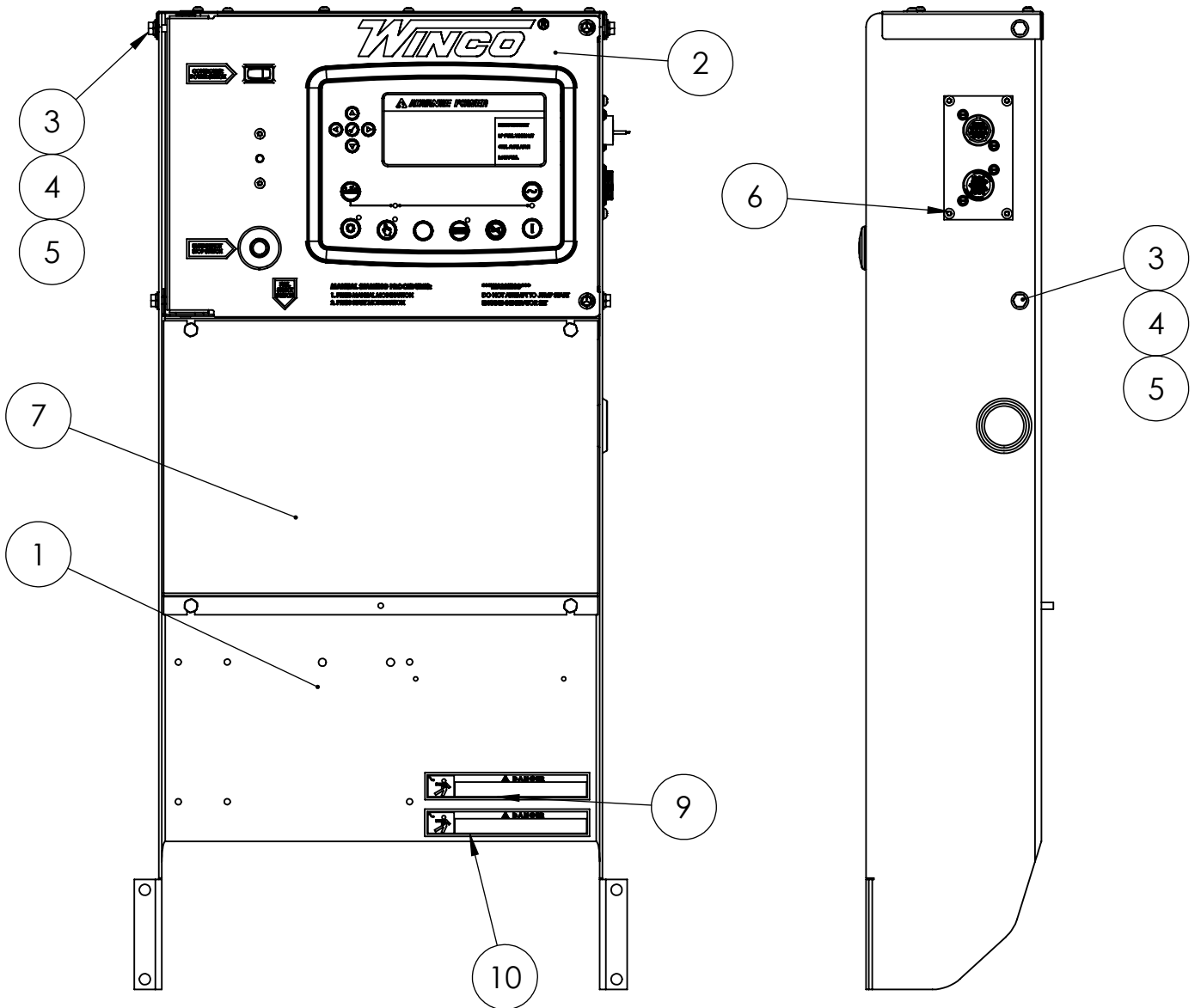
| ITEM NO. | PART NUMBER | DESCRIPTION                       | QTY. |
|----------|-------------|-----------------------------------|------|
| 1        | 487090-112  | ROOF COVER PLATE OIL LEVEL        | 1    |
| 2        | 91682-002   | 1/4 TURN BAIL STYLE               | 4    |
| 3        | 91684-000   | RETAINER RING 1/4 TURN SPLIT RING | 4    |
| 4        | 62912-002   | FOAM STRIP 1/16 X 3/8 6" LONG     | 4    |

# Radiator Housing Assembly



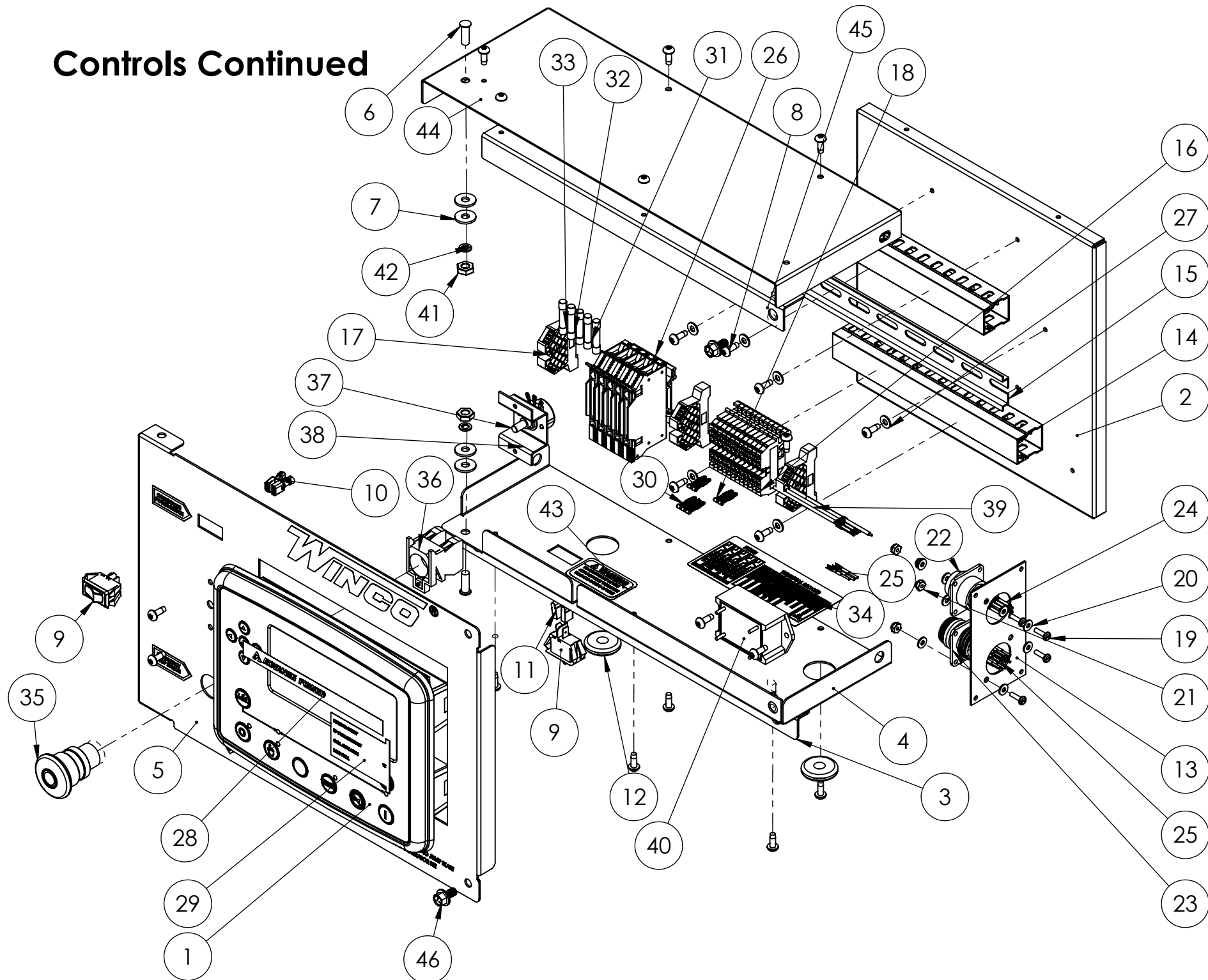
| ITEM NO. | PART NUMBER | DESCRIPTION                    | QTY. |
|----------|-------------|--------------------------------|------|
| 1        | 487090-101  | DR90 RADIATOR HOUSING          | 1    |
| 2        | 352125-1    | 1/4-20 RIVET NUT 22 GA-10GA    | 6    |
| 3        | 97813-000   | DECAL-WARNING CYCLE CRANK      | 2    |
| 4        | 492090-101  | RAD FOAM                       | 1    |
| 5        | 492090-103  | LEFT SIDE RAD FOAM             | 1    |
| 6        | 492090-102  | RIGHT SIDE RAD FOAM            | 1    |
| 7        | 94338-001   | COOLANT RECOVERY TANK          | 1    |
| 8        | 409090-201  | COOLANT RECOVERY TANK BRACKET  | 1    |
| 9        | 352120-2    | 1/4-20 X .75 FHCS              | 4    |
| 10       | 94980-001   | THREAD STUD .25-20X.625        | 1    |
| 11       | 16248-000   | .25-20 FLANGE NUT              | 3    |
| 12       | 62912-000   | .500 X .125 FOAM 30.5 LONG     | 2    |
| 13       | 15209-036   | PROP 65 WARNING DECAL          | 1    |
| 14       | 15209-002   | DECAL - DANGER CARBON MONOXIDE | 1    |
| 15       | 15209-102   | DECAL - DANGER CARBON MONOXIDE | 1    |

# Controls



| ITEM NO. | PART NUMBER | DESCRIPTION                                 | QTY. |
|----------|-------------|---------------------------------------------|------|
| 1        | 351903-41   | DSE MKII CONTROL PEDESTAL                   | 1    |
| 2        | 351891-51   | ECU ENGINE CONTROLLER                       | 1    |
| 3        | 466-000     | .25-20X.75 HHB                              | 4    |
| 4        | 479-000     | LOCK WASHER .25IN ID.                       | 4    |
| 5        | 512-000     | .25 WASHER                                  | 4    |
| 6        | 21698-001   | TORX PAN HEAD SCREW #10                     | 4    |
| 7        | 1000-0243   | BATTERY CHARGER COVER ASY (NO DECALS)       | 1    |
| 8        | 15102-003   | HOLE PLUG 1 5/8"                            | 1    |
| 9        | 15209-000   | UL-DECAL ELECTRICAL SHOCK CAN KILL          | 1    |
| 10       | 15209-100   | UL-DECAL ELECTRICAL SHOCK CAN KILL (FRENCH) | 1    |

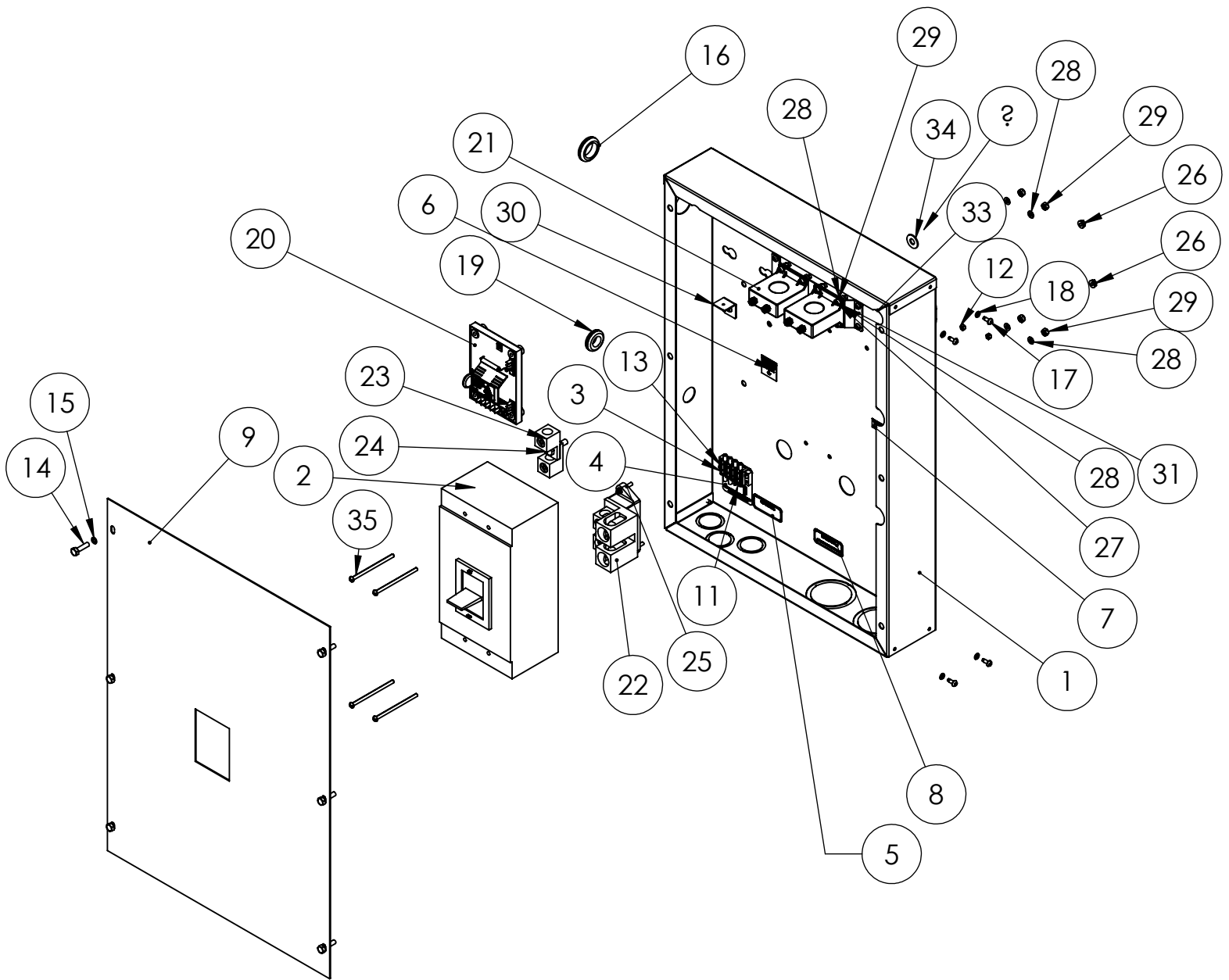
Controls Continued



## Controls Continued

| ITEM NO. | PART NUMBER | DESCRIPTION                              | QTY. |
|----------|-------------|------------------------------------------|------|
| 1        | 351112-29   | DEEP SEA ELECTRONICS 7310 MKII           | 1    |
| 2        | 351900-42   | DIN RAIL MOUNTING PLATE                  | 1    |
| 3        | 351900-44   | COVER SUPPORT BRACKET                    | 1    |
| 4        | 351900-45   | DSE8610 CONTROL BOX BOTTOM               | 1    |
| 5        | 351900-47   | DSE 7310 MKII FRONT PANEL                | 1    |
| 6        | 94980-003   | THREAD STUD .25-20 X .750                | 2    |
| 7        | 96286-001   | 1/4" NYLON WASHER                        | 4    |
| 8        | 21698-001   | TORX PAN HEAD SCREW #10                  | 21   |
| 9        | 64089-000   | SPST, ROCKER SWITCH                      | 2    |
| 10       | 48602-003   | TERMINAL FEMALE 16-14 AWG .250 TAB       | 4    |
| 11       | 61898-000   | TERMINAL FLAG 16/14AWG .250              | 2    |
| 12       | 23917-002   | GROMMET, .375ID X 1                      | 2    |
| 13       | 351900-51   | PLUG MOUNTING PLATE                      | 1    |
| 14       | 352017-001  | WIRE DUCT, 8.5IN                         | 2    |
| 15       | 64551-005   | DIN RAIL 9.5"                            | 1    |
| 16       | 80623-009   | TERMINAL BLOCK, DIN MOUNTED, SPRING CAGE | 12   |
| 17       | 80623-010   | END BLOCK, DIN MOUNTED                   | 3    |
| 18       | 80623-011   | 2-POLE TERMINAL BLOCK JUMPER             | 2    |
| 19       | 24988-000   | SCREW 6-32 X 1/2 BIND                    | 4    |
| 20       | 425-000     | #6 FLATWASHER                            | 8    |
| 21       | 51802-000   | NUT HEX #6-32 NYLOCK                     | 4    |
| 22       | 96925-002   | 14 PIN CONNECTOR                         | 1    |
| 23       | 96925-006   | 16 PIN CONNECTOR                         | 1    |
| 24       | 96923-001   | TERMINAL, SOCKET, 18-16AWG               | 10   |
| 25       | 96924-001   | TERMINAL, PIN, 18-16AWG                  | 16   |
| 26       | 2489-003    | DIN RAIL FUSE HOLDER 1-1/4 X 1/4IN       | 5    |
| 27       | 598-000     | #10 WASHER                               | 6    |
| 28       | 16600-005   | DSE MKII ADVANCE POWER LOGO INSERT       | 1    |
| 29       | 16601-007   | DSE 8610 MKII LIGHT LEGEND CARD INSERT   | 1    |
| 30       | 80623-012   | 3-POLE TERMINAL BLOCK JUMPER             | 1    |
| 31       | 95064-008   | FUSE AGC 2 AMP                           | 3    |
| 32       | 95064-000   | FUSE AGC 3 AMP                           | 1    |
| 33       | 95064-006   | FUSE AGC 10 AMP                          | 1    |
| 34       | 351095-16   | DECAL, FUSES AND TERMINAL BLOCKS         | 1    |
| 35       | 99783-001   | SWITCH, PUSH-PULL                        | 1    |
| 36       | 99783-002   | SWITCH CONTACT                           | 1    |
| 37       | 97517-001   | RHEOSTAT                                 | 1    |
| 38       | 351900-36   | RHEOSTAT MOUNTING BRACKET                | 1    |
| 39       | 96923-101   | PLUG TERMINAL                            | 4    |
| 40       | 96333-001   | LOW COOLANT MODULE                       | 1    |
| 41       | 638-000     | HEX NUT, .25IN                           | 2    |
| 42       | 479-000     | LOCK WASHER, .25" SPLIT                  | 2    |
| 43       | 63941-004   | DECAL FUSE WARNING (ENGLISH)             | 1    |
| 44       | 351900-52   | DSE CONTROL BOX TOP                      | 1    |
| 45       | 351900-53   | DSE PANEL STOP                           | 1    |
| 46       | 352120-1    | 1/4-20 X .500 FHCS                       | 2    |
| 47       | 48602-004   | TERMINAL MALE 16-14 AWG .250 TAB         | 1    |

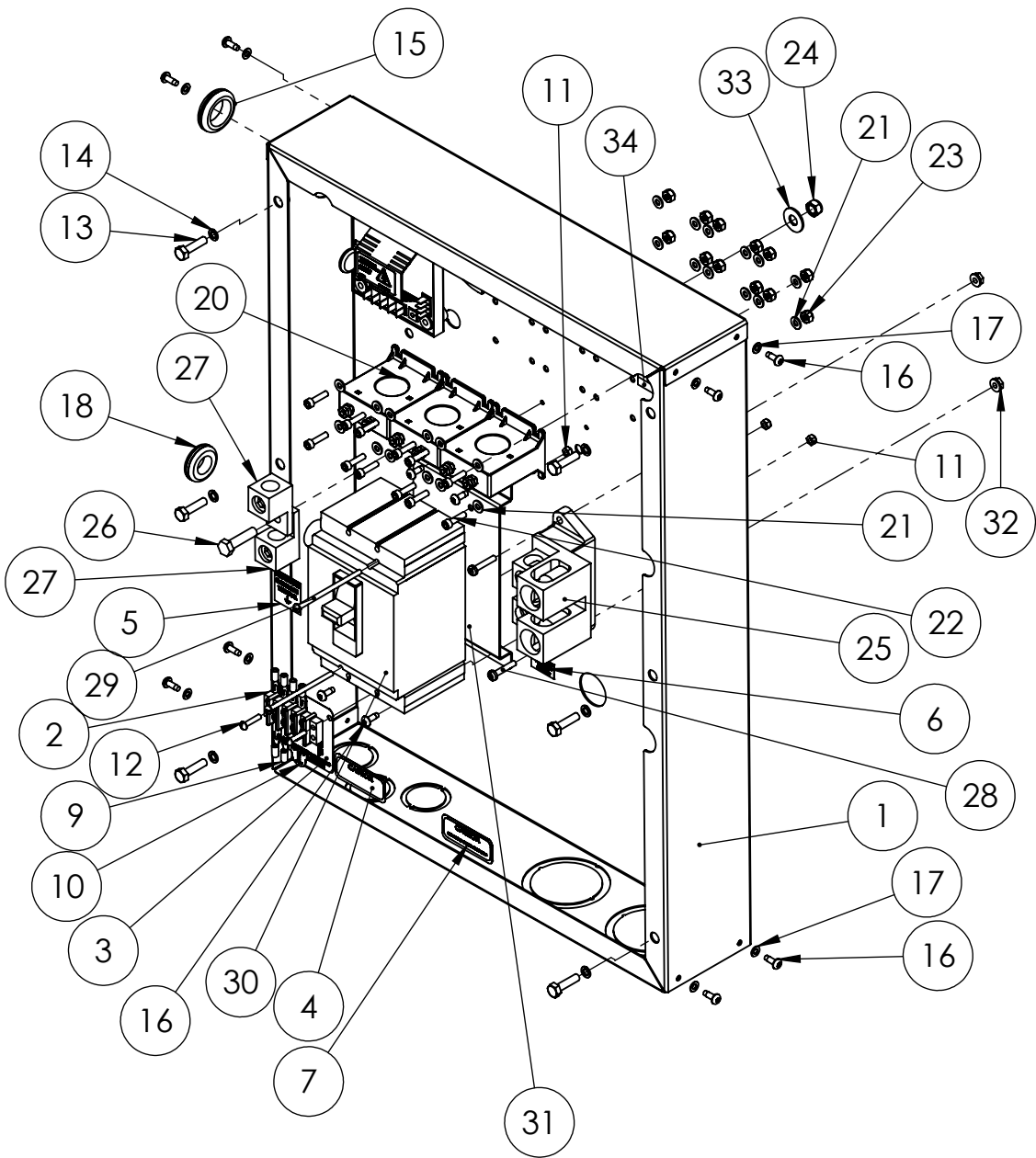
# CB Assembly 1 PH



## CB Assembly 1 PH Continued

| ITEM NO. | PART NUMBER | DESCRIPTION                          | QTY. |
|----------|-------------|--------------------------------------|------|
| 1        | 99826-053   | CB BOX 1PH                           | 1    |
| 2        | 81094-709   | CIRCUIT BREAKER 350AMP 2POLE 240VOLT | 1    |
| 3        | 80623-008   | TERMINAL BLOCK, 4PT, 20A             | 1    |
| 4        | 64576-020   | DECAL-GFCI PROTECTED UTILITY 4P      | 1    |
| 5        | 63941-005   | DECAL-CIRCUIT REMAINS ENERGIZED      | 1    |
| 6        | 16499-000   | UL-DECAL-GROUNDING-WHITE             | 1    |
| 7        | 16501-000   | DECAL-FLOATING NEUTRAL               | 1    |
| 8        | 16503-000   | DECAL-COPPER CONDUCTORS ONLY         | 1    |
| 9        | 99826-029   | CB BOX COVER 1PH                     | 1    |
| 10       | 22370-006   | TERMINAL SPADE 16-14AWG #5-#6        | 6    |
| 11       | 80623-013   | 2 POLE TERMINAL BLOCK JUMPER         | 1    |
| 12       | 95985-000   | NUT HEX #8-32 NYLOK                  | 2    |
| 13       | 7614-000    | RHMS 8-32 X .75                      | 2    |
| 14       | 439-000     | .25-20 X 1 HHB                       | 6    |
| 15       | 479-000     | LOCK WASHER, .25" SPLIT              | 6    |
| 16       | 62486-000   | GROMMET 1 X 1.375                    | 1    |
| 17       | 21698-001   | TORX PAN HEAD SCREW #10              | 13   |
| 18       | 96286-002   | FLAT WASHER NYLON                    | 8    |
| 19       | 23917-000   | GROMMET .6875ID X 1                  | 1    |
| 20       | 350818      | SX460 AVR                            | 1    |
| 21       | 80126-005   | PANEL MOUNT CT 400:5                 | 2    |
| 22       | 350124-2    | NEUTRAL SK400 400 AMP                | 1    |
| 23       | 58060-000   | TERMINAL GROUND LUG                  | 2    |
| 24       | 580-000     | 5/16-18X1.25                         | 1    |
| 25       | 9362-000    | 10-24X1                              | 2    |
| 26       | 99671-000   | #10-24 HEX NUT                       | 2    |
| 27       | 64872-000   | SOC.HCS 10-24 X 3/4 BLK              | 8    |
| 28       | 598-000     | #10 WASHER                           | 20   |
| 29       | 5315-000    | NUT HEX 10-24 NYLON                  | 12   |
| 30       | 1000-0199   | AVR TOOL HOLDER                      | 1    |
| 31       | 1000-0249   | CT RISER                             | 1    |
| 32       | 99347-028   | AC HARNESS 1PH                       | 1    |
| 33       | 58684-007   | EDGE TRIM 30 INCH                    | 1    |
| 34       | 526-000     | 5/16 FLAT WASHER                     | 1    |
| 35       | 91190-001   | RHMS 10-24x3.5                       | 4    |
| 36       | 47136-000   | HEX NUT .3125-18 NYLOK               | 1    |

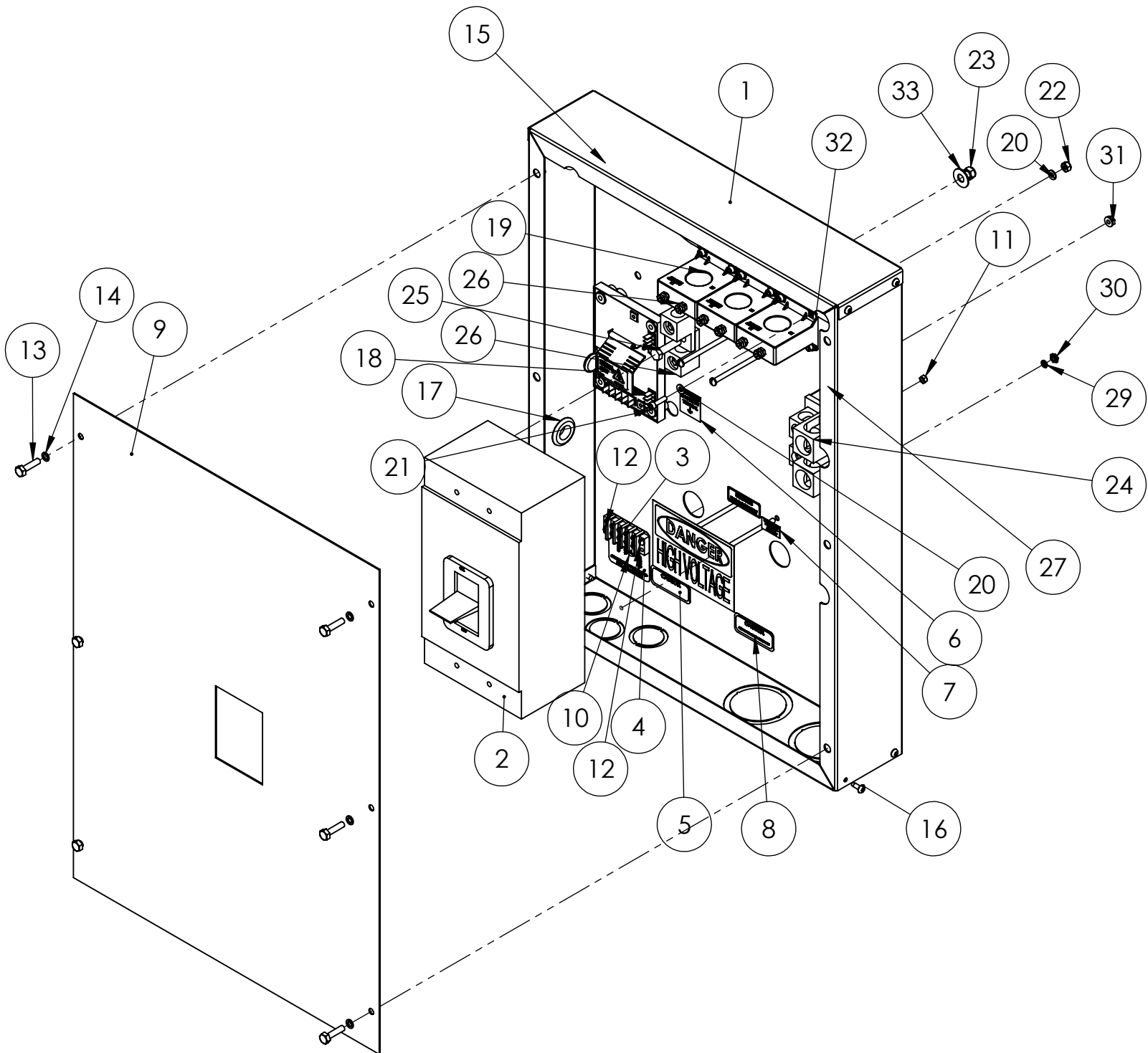
# CB Assembly 480 3 PH



## CB Assembly 480 3 PH Continued

| ITEM NO. | PART NUMBER | DESCRIPTION                         | QTY. |
|----------|-------------|-------------------------------------|------|
| 1        | 99826-055   | CB BOX 480 3PH                      | 1    |
| 2        | 80623-008   | TERMINAL BLOCK, 4PT, 20A            | 1    |
| 3        | 64576-020   | DECAL-GFCI PROTECTED UTILITY 4P     | 1    |
| 4        | 63941-005   | DECAL-CIRCUIT REMAINS ENERGIZED     | 1    |
| 5        | 16499-000   | UL-DECAL-GROUNDING-WHITE            | 1    |
| 6        | 16501-000   | DECAL-FLOATING NEUTRAL              | 1    |
| 7        | 16503-000   | DECAL-COPPER CONDUCTORS ONLY        | 1    |
| 8        | 99826-052   | CB COVER 480 3PH                    | 1    |
| 9        | 22370-006   | TERMINAL SPADE 16-14AWG #5-#6       | 6    |
| 10       | 80623-013   | 2 POLE TERMINAL BLOCK JUMPER        | 1    |
| 11       | 95985-000   | NUT HEX #8-32 NYLOK                 | 2    |
| 12       | 7614-000    | RHMS 8-32 X .75                     | 2    |
| 13       | 439-000     | .25-20 X 1 HHB                      | 6    |
| 14       | 479-000     | LOCK WASHER, .25" SPLIT             | 6    |
| 15       | 62486-000   | GROMMET 1 X 1.375                   | 1    |
| 16       | 21698-001   | TORX PAN HEAD SCREW #10             | 12   |
| 17       | 96286-002   | FLAT WASHER NYLON                   | 8    |
| 18       | 23917-000   | GROMMET .6875ID X 1                 | 1    |
| 19       | 80126-004   | CT 300:5 PANEL MOUNT                | 3    |
| 20       | 598-000     | #10 WASHER                          | 24   |
| 21       | 64872-000   | SOC.HCS 10-24 X 3/4 BLK             | 12   |
| 22       | 5315-000    | NUT HEX 10-24 NYLON                 | 12   |
| 23       | 47136-000   | HEX NUT .3125-18 NYLOK              | 1    |
| 24       | 350124-2    | NEUTRAL SK400 400 AMP               | 1    |
| 25       | 580-000     | 5/16-18X1.25                        | 1    |
| 26       | 58060-000   | TERMINAL GROUND LUG                 | 2    |
| 27       | 9362-000    | 10-24X1                             | 2    |
| 28       | 44342-000   | RHMS 8-32 X 3.0                     | 2    |
| 29       | 95985-000   | #8-32 NYLOK HEX NUT                 | 2    |
| 30       | 81097-038   | CIR.BRK.125A-3PL-600V, SQD#HDL36125 | 1    |
| 31       | 352306-021  | CB RISER                            | 1    |
| 32       | 99671-000   | #10-24 HEX NUT                      | 2    |
| 33       | 526-000     | 5/16 FLAT WASHER                    | 1    |
| 34       | 58684-031   | EDGE TRIM 22"                       | 1    |
| 35       | 99382-303   | PSS30 CELL 3                        | 1    |
| 36       | 410090-204  | CB TO GENERATOR WIRING 277/480      | 1    |

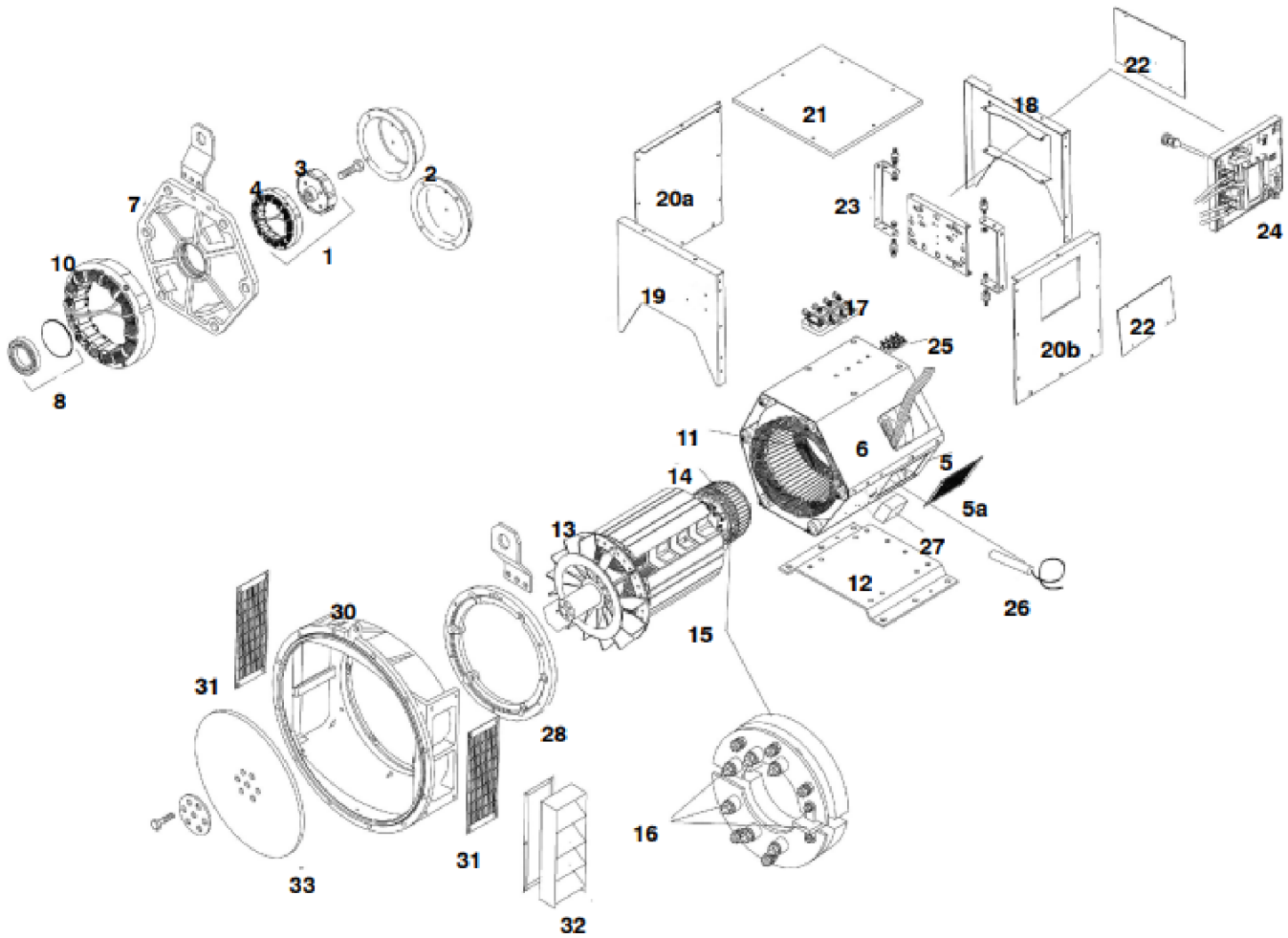
# CB Assembly 208-240 3 PH



## CB Assembly 208-240 3 PH Continued

| ITEM NO. | PART NUMBER | DESCRIPTION                        | QTY. |
|----------|-------------|------------------------------------|------|
| 1        | 99826-054   | CB BOX                             | 1    |
| 2        | 81096-708   | CIR.BRK.300A-3PL-240V              | 1    |
| 3        | 80623-008   | TERMINAL BLOCK, 4PT, 20A           | 1    |
| 4        | 64576-020   | DECAL-GFCI PROTECTED UTILITY 4P    | 1    |
| 5        | 63941-005   | DECAL-CIRCUIT REMAINS ENERGIZED    | 1    |
| 6        | 16499-000   | UL-DECAL-GROUNDING-WHITE           | 1    |
| 7        | 16501-000   | DECAL-FLOATING NEUTRAL             | 1    |
| 8        | 16503-000   | DECAL-COPPER CONDUCTORS ONLY       | 1    |
| 9        | 99826-030   | CB COVER 208/240 3PH               | 1    |
| 10       | 80623-013   | 2 POLE TERMINAL BLOCK JUMPER       | 1    |
| 11       | 95985-000   | NUT HEX #8-32 NYLOK                | 2    |
| 12       | 7614-000    | RHMS 8-32 X .75                    | 2    |
| 13       | 439-000     | .25-20 X 1 HHB                     | 6    |
| 14       | 479-000     | LOCK WASHER, .25" SPLIT            | 6    |
| 15       | 62486-000   | GROMMET 1 X 1.375                  | 1    |
| 16       | 21698-001   | TORX PAN HEAD SCREW #10            | 8    |
| 17       | 23917-000   | GROMMET .6875ID X 1                | 1    |
| 18       | 350818      | SX460 AVR                          | 1    |
| 19       | 80126-004   | CT 300:5 PANEL MOUNT               | 3    |
| 20       | 598-000     | #10 WASHER                         | 24   |
| 21       | 64872-000   | SOC.HCS 10-24 X 3/4 BLK            | 12   |
| 22       | 5315-000    | NUT HEX 10-24 NYLON                | 12   |
| 23       | 47136-000   | HEX NUT .3125-18 NYLOK             | 1    |
| 24       | 350124-2    | NEUTRAL SK400 400 AMP              | 1    |
| 25       | 580-000     | 5/16-18X1.25                       | 1    |
| 26       | 58060-000   | TERMINAL GROUND LUG                | 2    |
| 27       | 9362-000    | 10-24X1                            | 2    |
| 28       | 15013-000   | RHMS 10-32X3.5                     | 4    |
| 29       | 484-000     | LOCKWASHER #10 SPLIT               | 4    |
| 30       | 6372-000    | #10-32 HEX NUT                     | 4    |
| 31       | 99671-000   | #10-24 HEX NUT                     | 2    |
| 32       | 58684-004   | EDGE TRIM 35.5"                    | 1    |
| 33       | 526-000     | FLAT WASHER 5/16_3/8               | 1    |
| 34       | 16502-001   | DECAL-AC POWER DISCONNECT          | 1    |
| 35       | 91498-000   | DECAL-DANGER HIGH VOLTAGE<br>3.5x5 | 1    |

# Generator

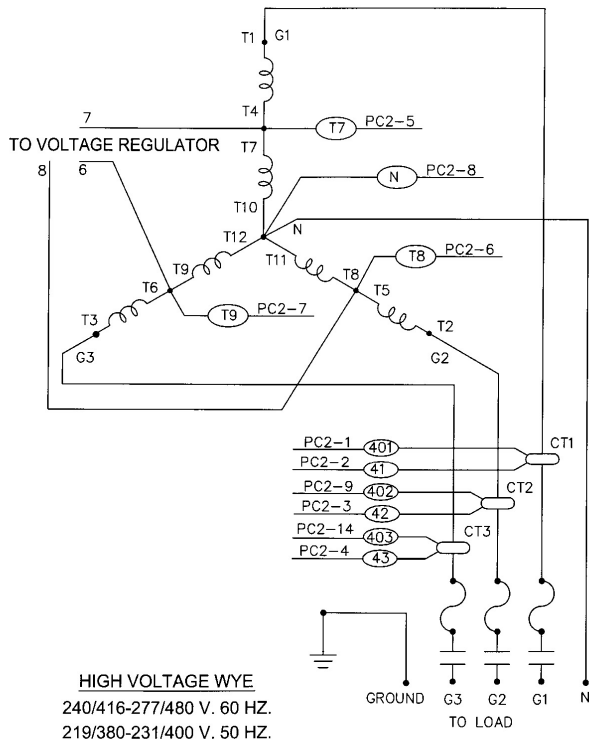


| ITEM NO.                                              | PART NUMBER | DESCRIPTION                               | QTY. |
|-------------------------------------------------------|-------------|-------------------------------------------|------|
| --                                                    | 352013-1    | COMPLETE GENERATOR END, DR90-03           | 1    |
| --                                                    | 352013-2    | COMPLETE GENERATOR END, DR90-04, -17, -18 | 1    |
| 24                                                    | 350818-2    | AVR AS440 UL                              | 1    |
| --                                                    | 8-100       | DIODE KIT, FWD/REV & VARISTOR             | 1    |
| --                                                    | 350005-401  | FUSE, 6.3 AMP, 600 VOLT                   | 3    |
| Contact Winco for additional generator parts support. |             |                                           |      |

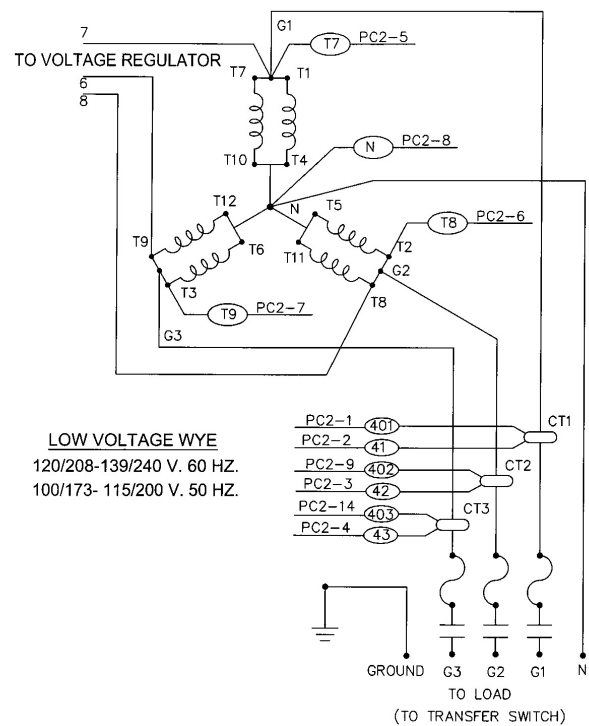
| EXPECTED RESISTANCE ( $\Omega$ )@ 22°C (+/-10%) |                   |                 |
|-------------------------------------------------|-------------------|-----------------|
| MODEL                                           | UCI274C DEDICATED | UCI274C 12 LEAD |
| STATOR WINDING (LEAD TO LEAD)                   | .011              | .030            |
| ROTOR WINDING                                   | 1.12              | 1.12            |
| EXCITER STATOR                                  | 20                | 20              |
| EXCITER ROTOR (LEAD TO LEAD)                    | 0.156             | .156            |
| PMG STATOR (LEAD TO LEAD)                       | 3.8               | 3.8             |

# Generator Connections

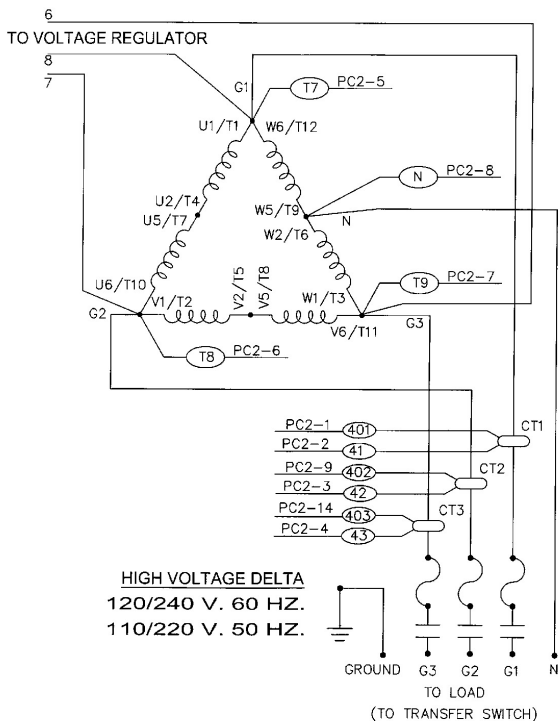
## THREE PHASE-HIGH WYE 277/480 VOLTS



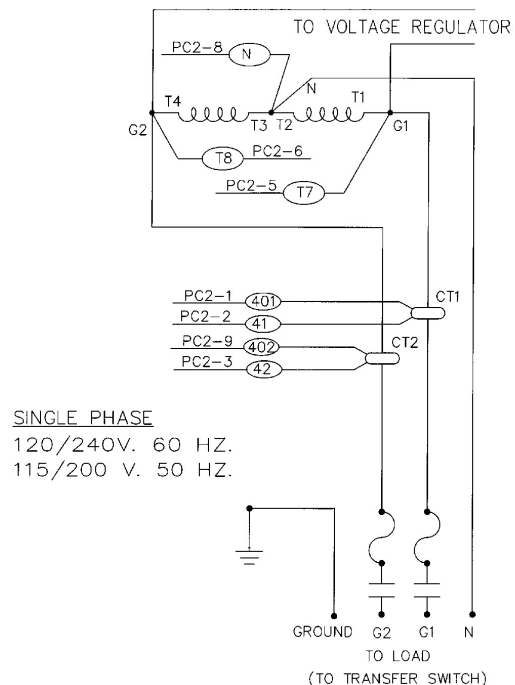
## THREE PHASE-LOW WYE 120/208 VOLTS



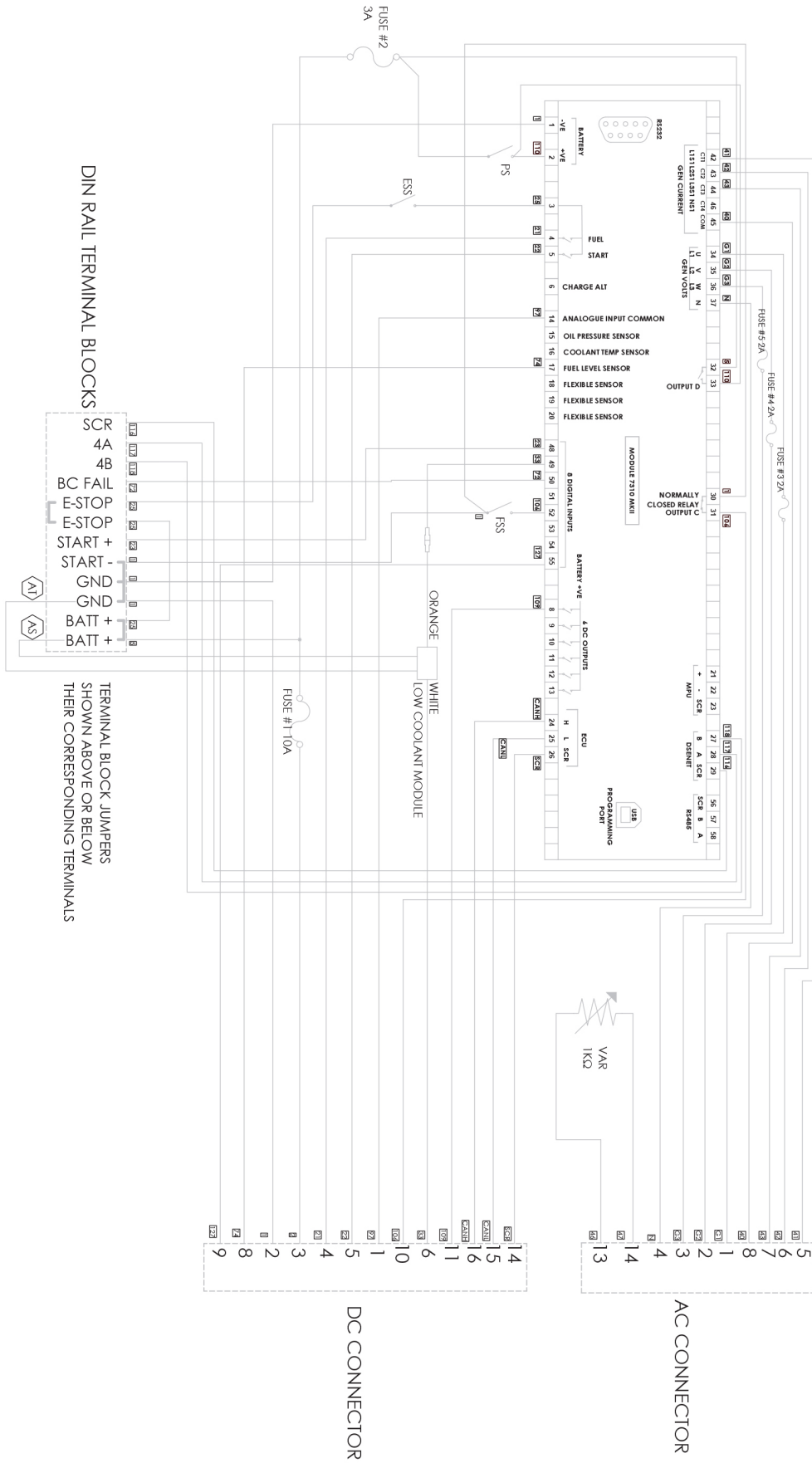
## THREE PHASE -DELTA 120/240 VOLTS



## SINGLE PHASE 120/240 VOLTS



# Generator Control Schematic



# Engine Wiring Schematic

