

# THAVZALL

Tamarack Industries



## TCH250

## Parts Manual



As a new customer of Thawzall we would like to welcome you! We are looking forward to providing you with technical support for your Thawzall unit. Whatever you need we are here to help.

## **Ways to contact us for support**

### **By Phone : 1-888-757-3545**

The main Technical support phone line is staffed monday-friday 7:00 AM to 3:30 PM excluding holidays.

### **After hours support**

Calls received outside of regular hours are directed to the On-call technician. After hours support is reserved for issues that cannot wait until the next business day for resolution. If no answer please leave a message and we will get back to you as soon as possible.

### **By Email : [support@tamarack-ind.com](mailto:support@tamarack-ind.com)**

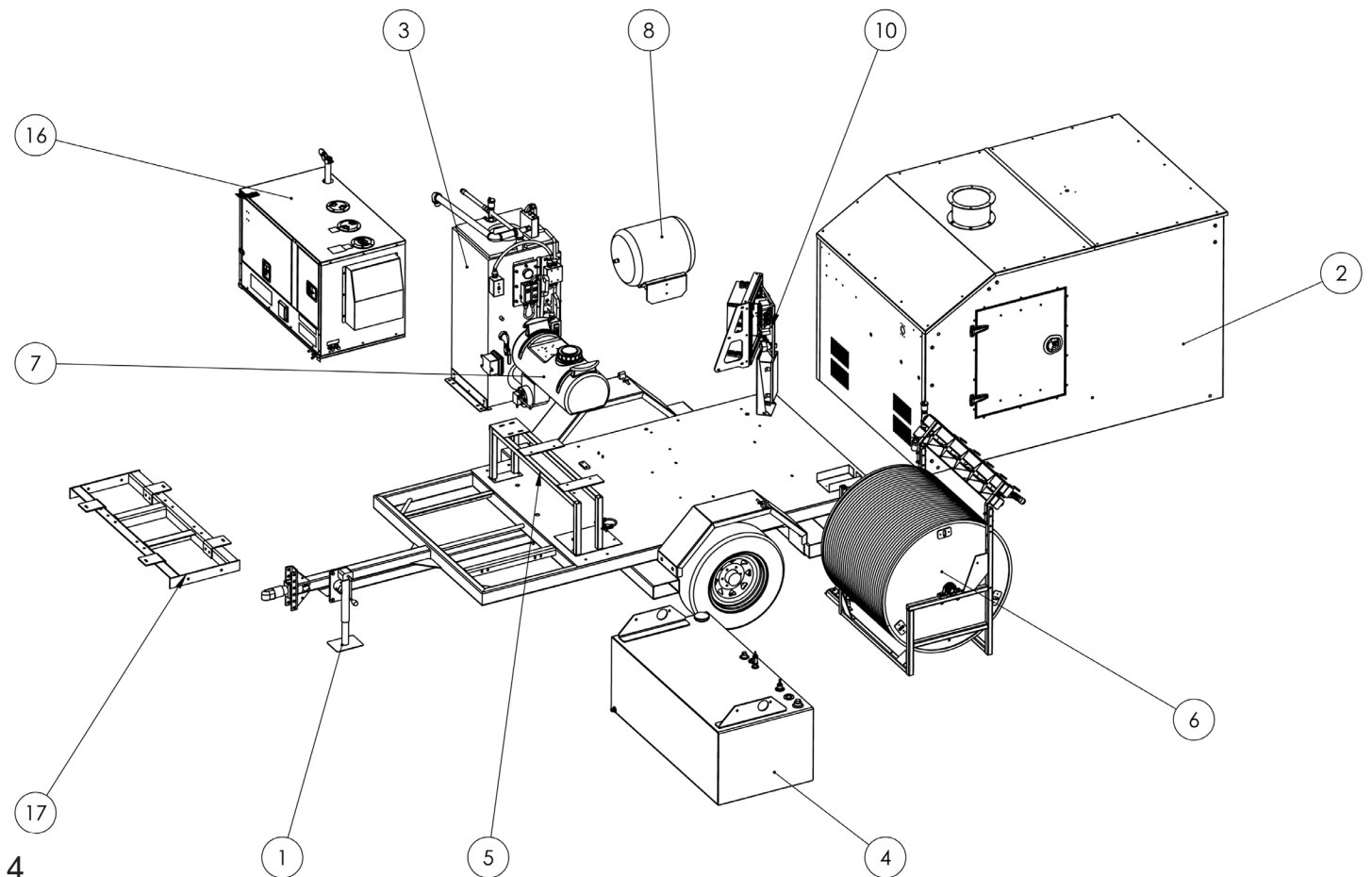
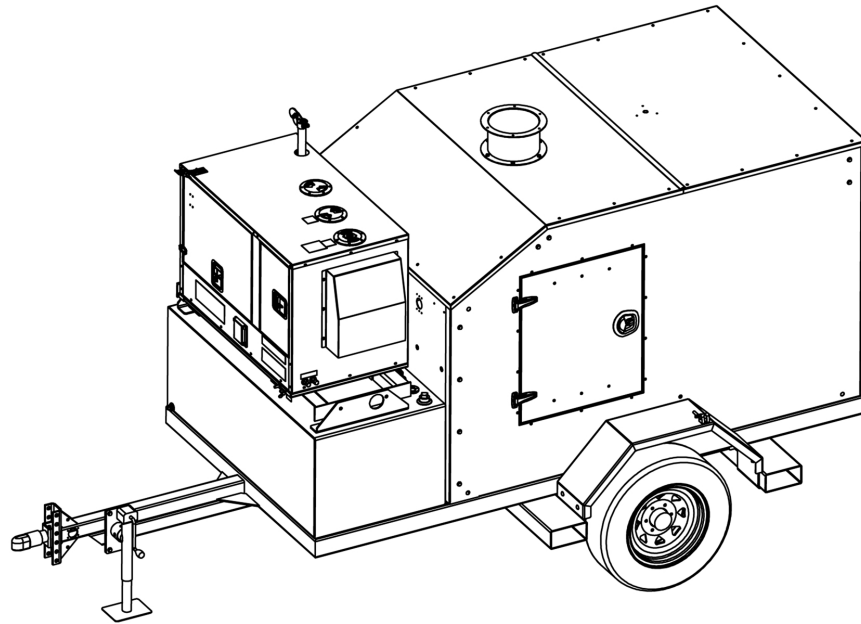
Feel free to email us at any time with technical questions or parts inquiries. Please include the year make and model of your unit if you have a specific question about your machine so we can better help you. If it is an emergency please call 1-888-757-3545

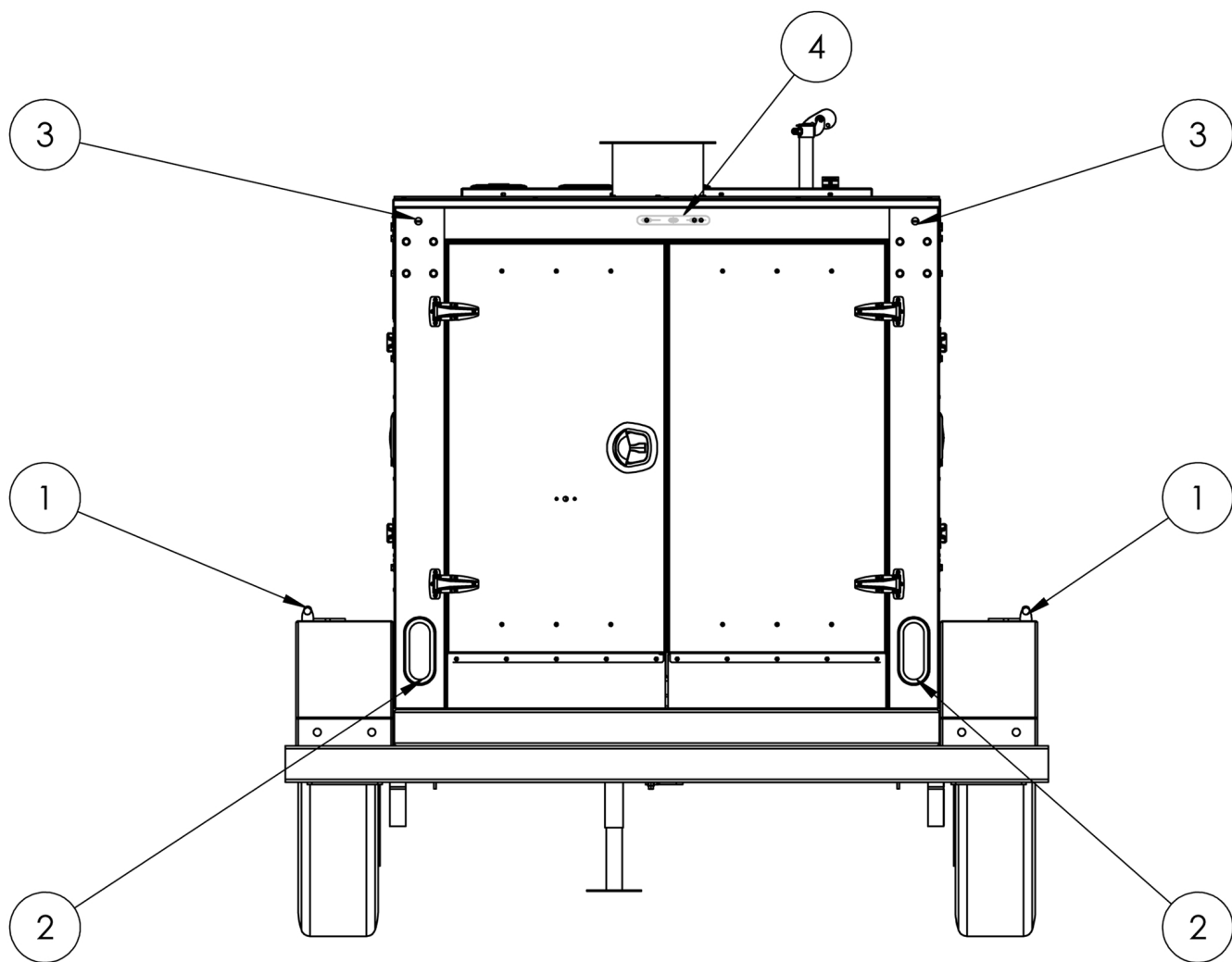
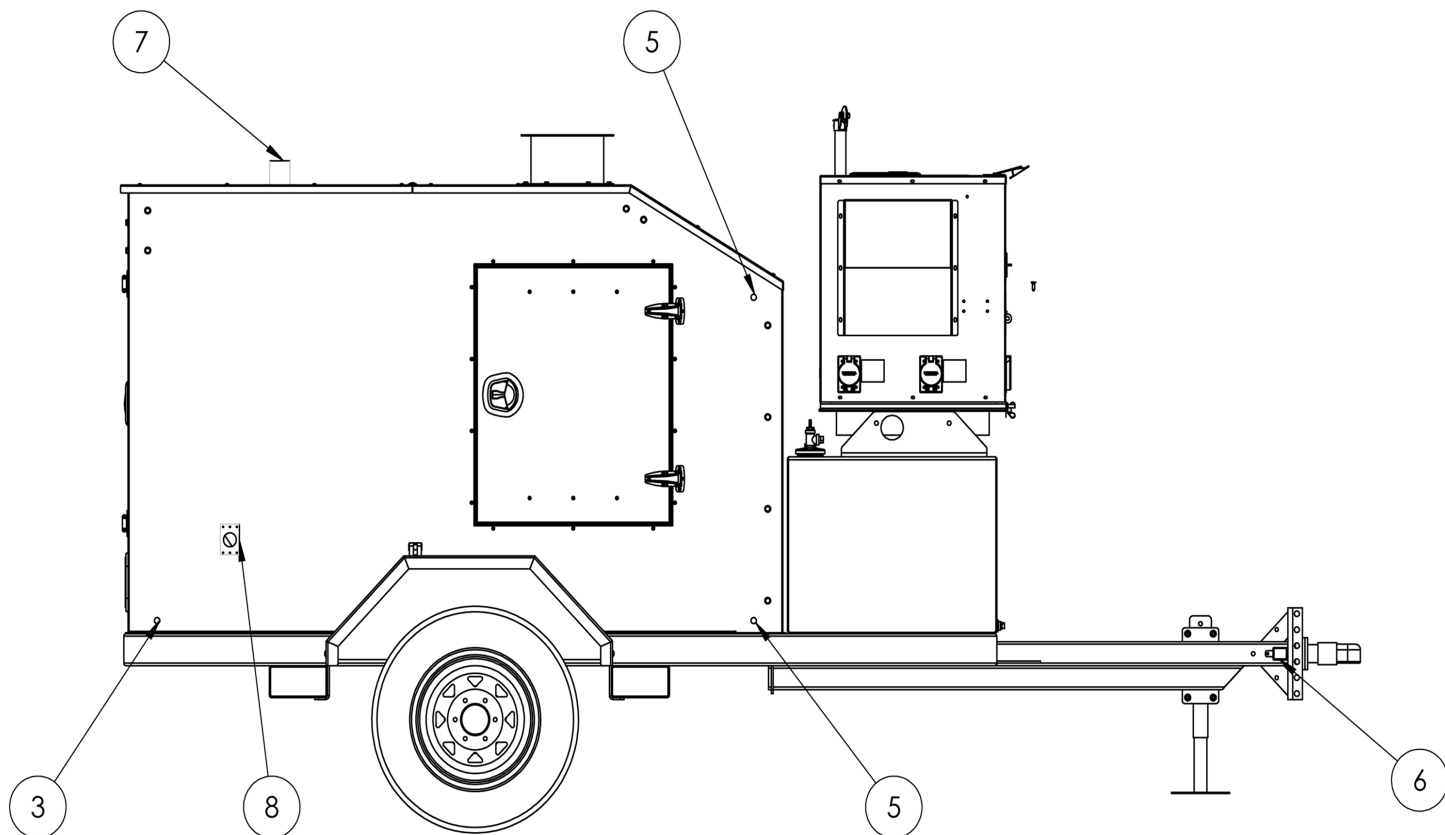
For more information please visit our website  
**[www.thawzall.com](http://www.thawzall.com)**

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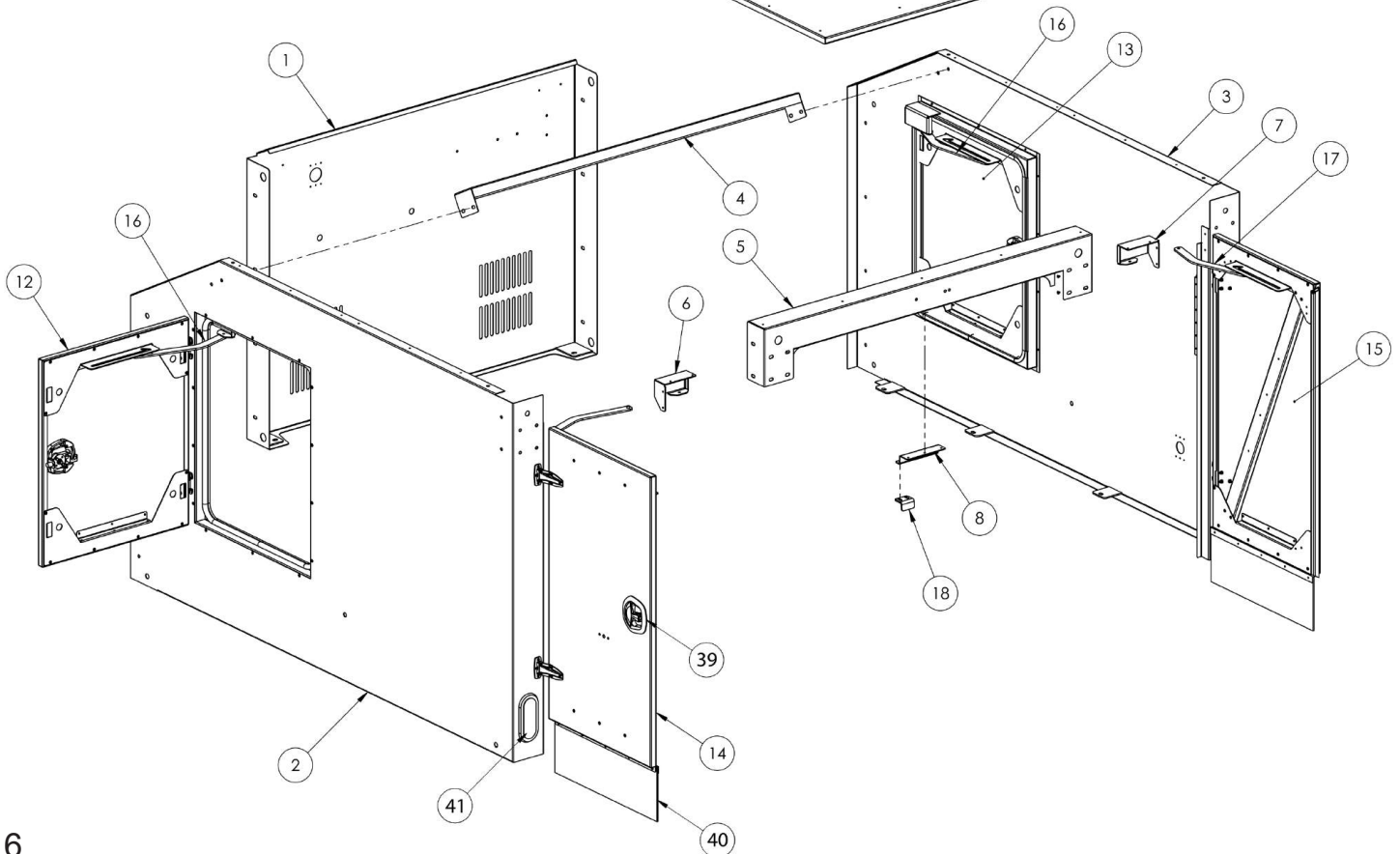
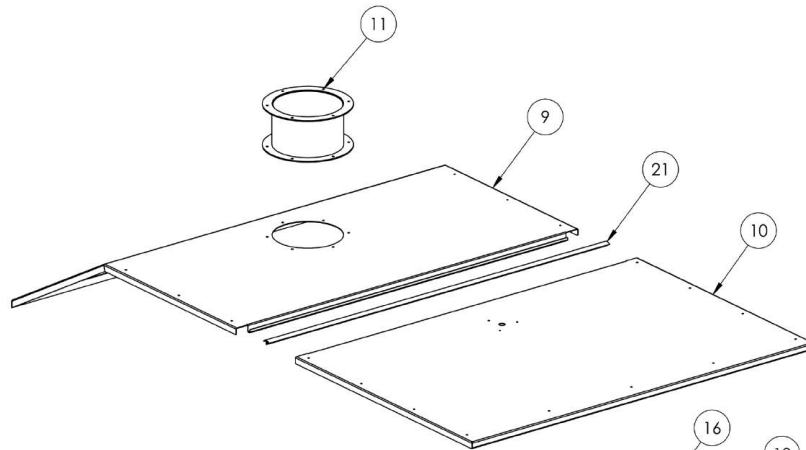
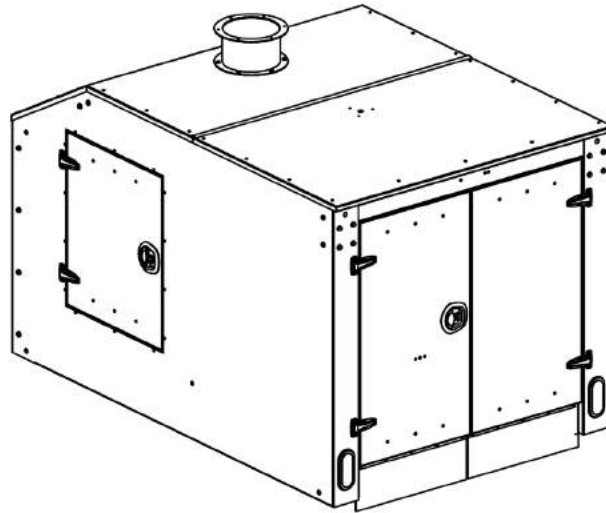
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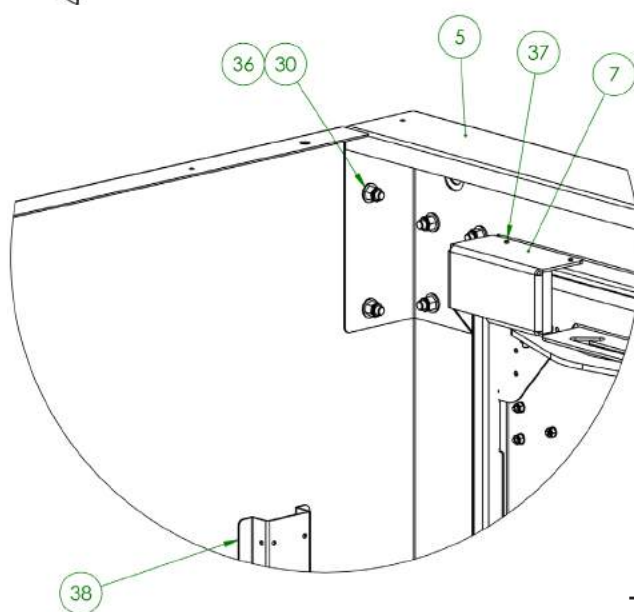
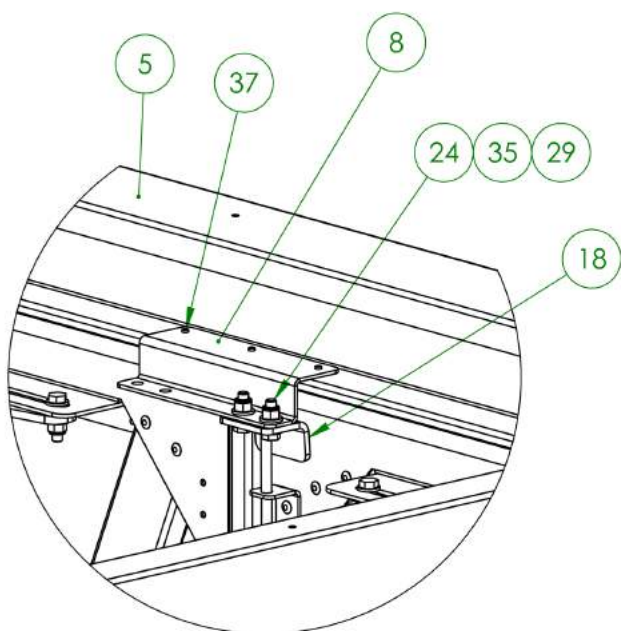
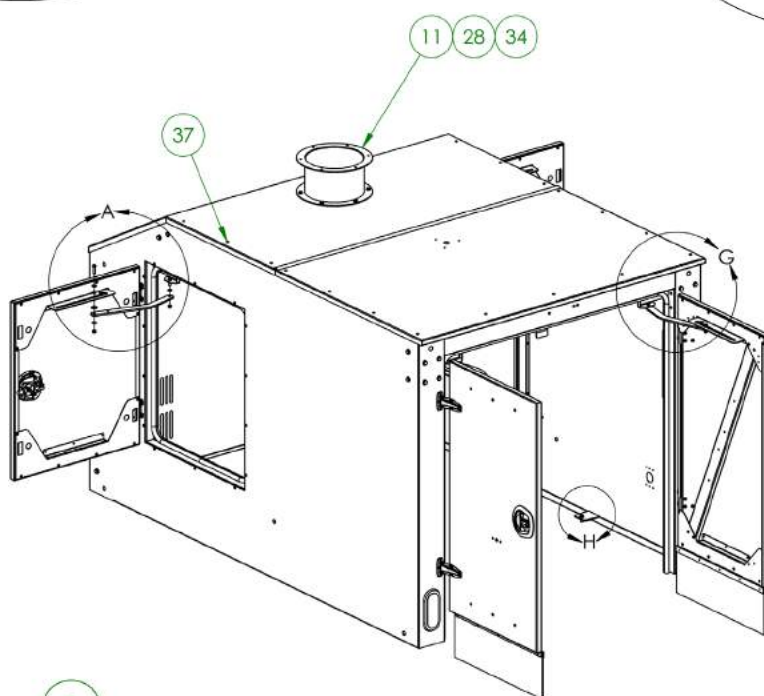
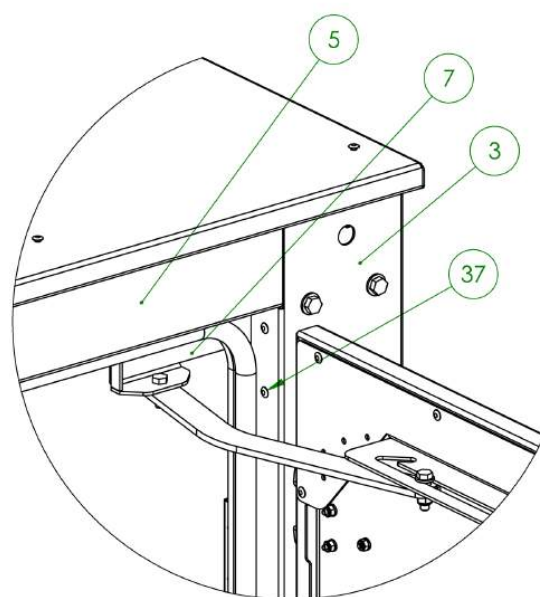
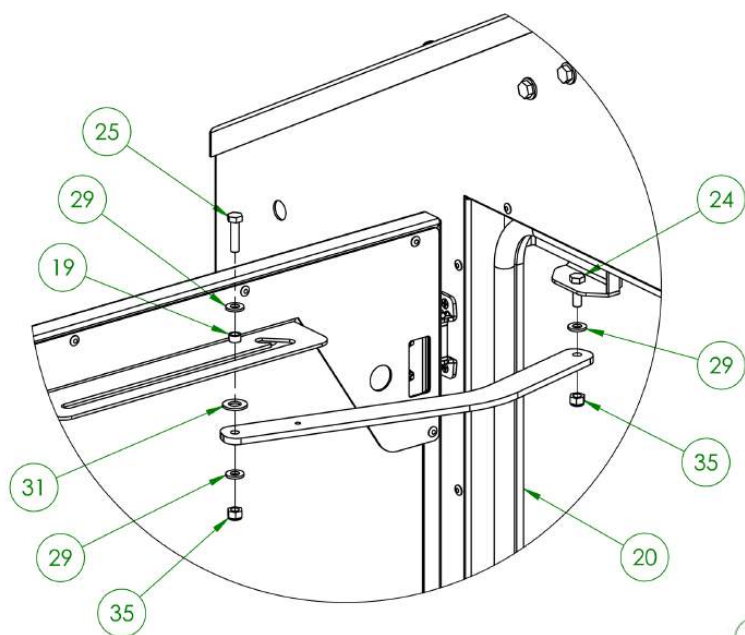
# OVERVIEW





# PANELS







# T90250-80 Panels Parts List

| ITEM # | PART NUMBER | DESCRIPTION                                  |
|--------|-------------|----------------------------------------------|
| 1      | A500052 R1  | ASSY,WA,ENCLOSURE FRONT                      |
| 2      | A500053 R2  | ASSY,WA,ENCLOSURE SIDE,LH                    |
| 3      | A500054 R2  | ASSY,WA,ENCLOSURE SIDE,RH                    |
| 4      | 500037 R2   | PNL,TOP FRONT SUPPORT                        |
| 5      | 500038 R1   | SHT,TOP REAR SUPPORT                         |
| 6      | 500096 R0   | BKT,DOOR STOP PIVOT,LH REAR                  |
| 7      | 500097 R0   | BKT,DOOR STOP PIVOT,RH REAR                  |
| 8      | 500071 R1   | SHT,REAR DOOR STOP MOUNT                     |
| 9      | 500075 R0   | SHT,TOP,FRONT                                |
| 10     | 500076 R0   | SHT,TOP,REAR                                 |
| 11     | A500079 R0  | ASSY,WA,ROOF STACK                           |
| 12     | A500055 R1  | ASSY,SIDE DOOR,LH                            |
| 13     | A500056 R1  | ASSY,SIDE DOOR,RH                            |
| 14     | A500062 R1  | ASSY,REAR DOOR,LH                            |
| 15     | A500063 R1  | ASSY,REAR DOOR,RH                            |
| 16     | 500050 R1   | BKT,SLIDE,SIDE DOOR                          |
| 17     | 500065 R1   | BKT,SLIDE,REAR DOOR                          |
| 18     | 500072 R0   | BKT,REAR DOOR STOP                           |
| 19     | 500051 R0   | BUSHING,BRONZE .44ODX .31ID                  |
| 20     | 500080 R0   | SEAL,DOOR (SOLD PER FT)                      |
| 21     | 461320 R0   | SEAL,T PROFILE TAPED, CHARCOAL (SOLD PER FT) |
| 24     | 225980 R0   | BOLT, 5/16-18 X 1 HX GR2 CP NC               |
| 25     | 225990 R0   | BOLT, HEX HD PL 5/16UNCX1 1/4                |
| 28     | 174485 R0   | WASHER, 1/4 FLAT ZP SAE"                     |
| 29     | 174990 R0   | WASHER, 5/16 ID X 3/4 OD FL ZP               |
| 30     | 174986 R0   | WASHER, 3/8 NOM PL"                          |
| 31     | 119514 R0   | WASHER, FLAT, 7/16, ZPL                      |
| 34     | 227812 R0   | NUT, NYLON LOCK 1/4 UNC                      |
| 35     | 227821 R0   | NUT, 5/16"UNC PL LOCK NYL                    |
| 36     | 227814 R0   | NUT, 3/8 HX LOCK PL UNC"                     |
| 37     | 225813 R0   | RIVET, POP, 3/16, SS                         |
| 38     | 500082 R0   | SHT,WIRE CHANNEL,12 INCH                     |
| 39     | 500070 R0   | LATCH,T-HANDLE,EBERHARD                      |
| 40     | 500117 R0   | FLAP,REAR DR TCH250 7.5X25                   |
| 41     | T51245 R0   | LIGHT, BRAKE LED                             |

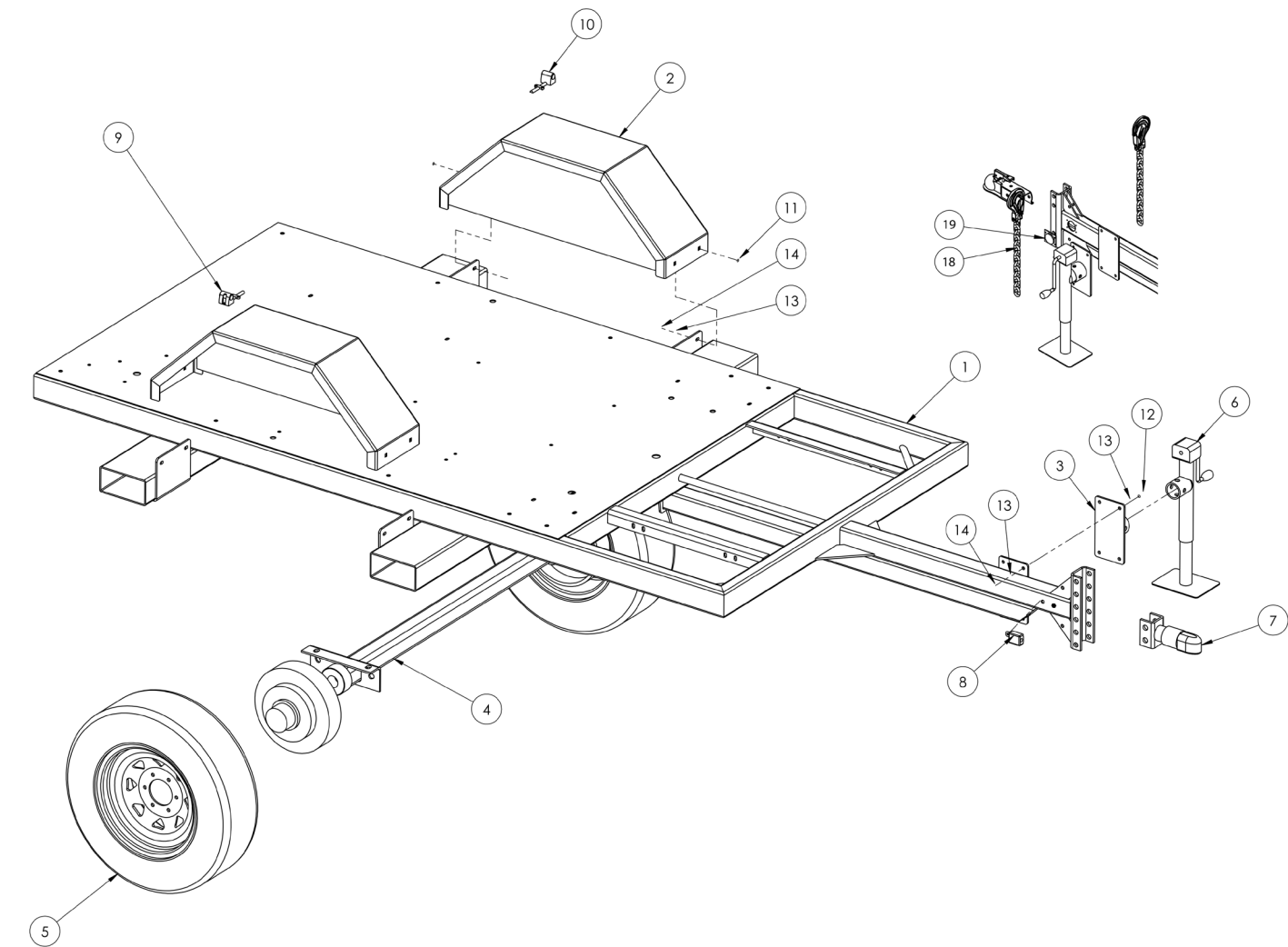
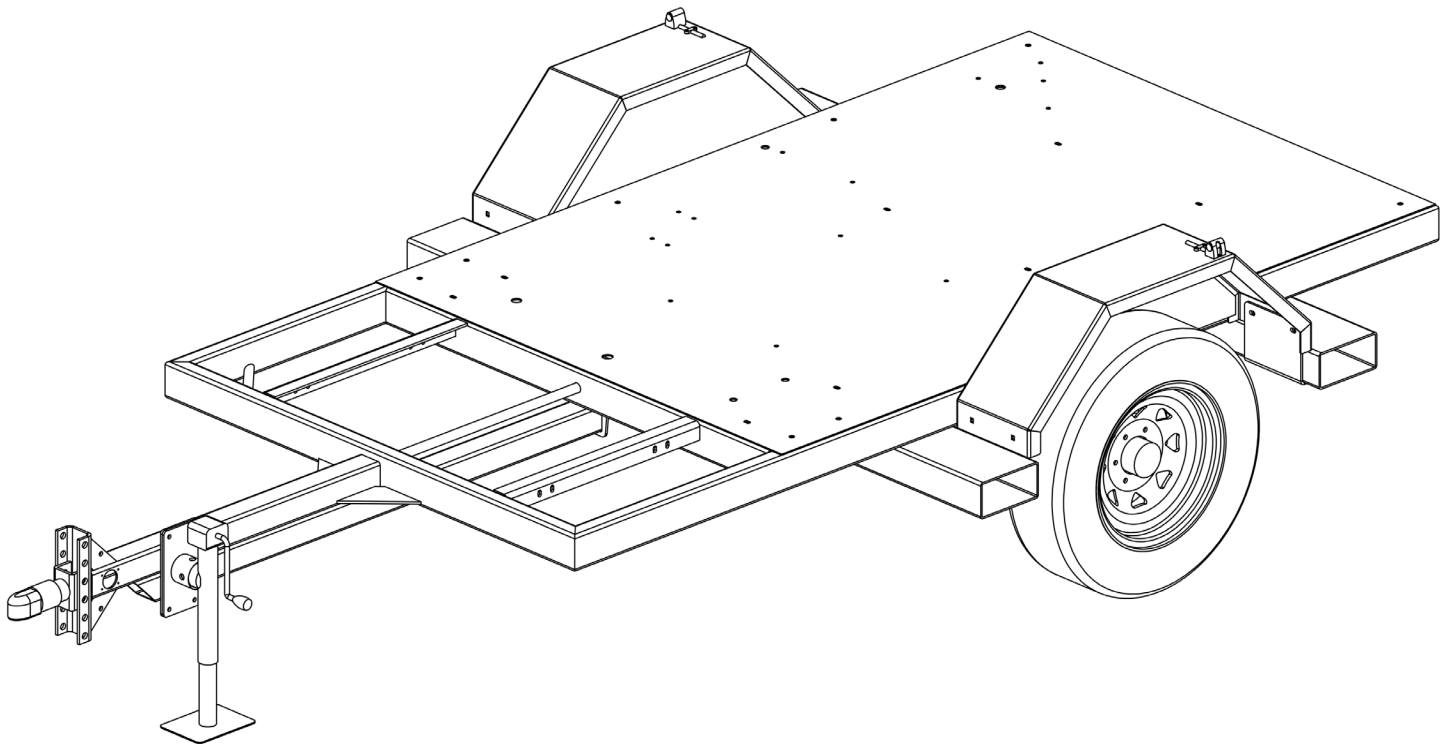
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# T90250-80 Panels Parts List

| PARTS NOT SHOWN |                                     |
|-----------------|-------------------------------------|
| PART NUMBER     | DESCRIPTION                         |
| 200001 R0       | HOLDER,DOCUMENTS                    |
| 477067 R0       | TAPE, RED, REFLECTIVE (SOLD PER FT) |
| 500046 R0       | SHT,SIDE DOOR,OUTER                 |
| 500047 R0       | SHT,SIDE DOOR,INNER                 |
| 500048 R2       | SHT,DOOR SLIDE                      |
| 500059 R1       | SHT,REAR DOOR,OUTER,LH              |
| 500060 R0       | SHT,REAR DOOR,OUTER,RH              |
| 500061 R0       | SHT,REAR DOOR,INNER, TOP            |
| 500064 R0       | SHT,LH REAR DOOR ANGLE              |
| 500067 R0       | SHT,REAR DOOR,INNER,LOWER           |
| 500068 R1       | SHT,SUPPORT,REAR DOOR               |
| 500069 R0       | HINGE,SIERRA PACIFIC                |
| 500073 R0       | SHT,ROD GUIDE                       |
| 500074 R0       | ROD, DOOR LOCK                      |
| 500090 R0       | BAR,FLAP BACKING                    |
| 500111 R0       | SHT,MANUAL BOX HOLDER               |
| 500126 R0       | PNL,SIDE VERT. SUPPORT              |
| 500134 R0       | BKT,SIDE PANEL BRACE LWR            |
| T32175 R1       | HOLD DOWN, VINYL 6A,PC BLACK        |
| T51170 R0       | REFLECTOR,OVAL AMBER                |
| T51185 R0       | LIGHT,STROBE BLUE                   |
| T51205 R0       | 3/4" ROUND AMBER MARKER LIGHT       |
| T51210 R0       | 3/4" ROUND RED MARKER LIGHT         |
| T51230 R0       | LIGHT,BAR 3 LIGHTS                  |
| T51260 R0       | LAMP, LICENCE LED                   |
| T51275 R0       | BKT, PLASTIC LIC PLT HOLDER         |
| T51590 R0       | DECAL,F&E 4X10.75                   |

# TRAILER

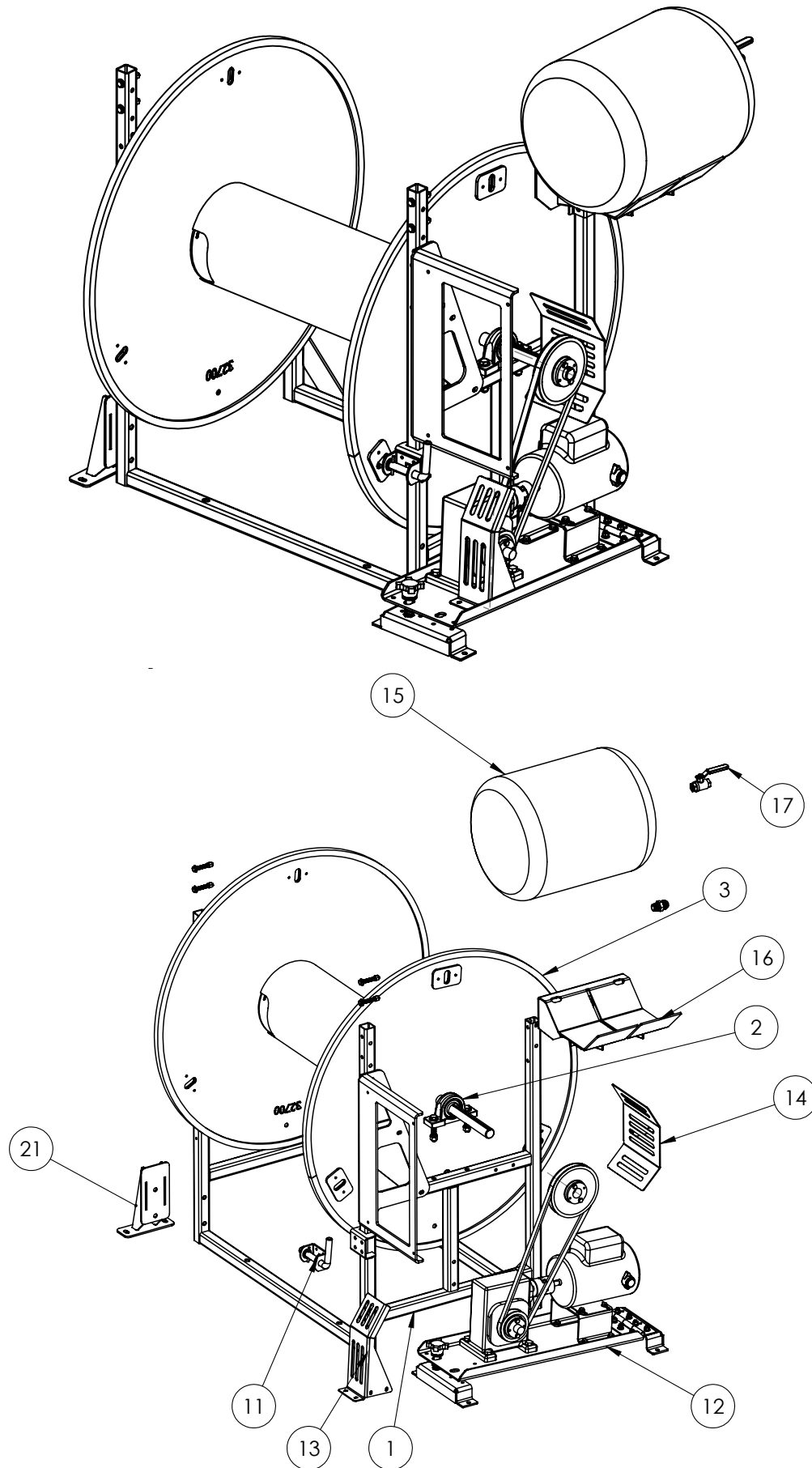


# T90250-100 Trailer Parts List

| ITEM # | PART NUMBER | DESCRIPTION                    |
|--------|-------------|--------------------------------|
| 1      | A500001 R3  | Trailer TCH250 2017            |
| 2      | A500023 R2  | ASSY,WA,FENDER                 |
| 4      | T80600 R0   | AXLE,6000LBS                   |
| 5      | T80510 R0   | ASSY,W&T ST235/80R16E10PLY6BLT |
| 6      | 448210 R0   | JACK, SWIVEL, 7000 LB          |
| 7      | 448003 R0   | COUPLER, 2-5/16 BALL HITCH     |
| 7      | 640304 R0   | OPT, PINTLE HITCH              |
| 8      | 448018 R0   | KIT, BATTERY BREAK-AWAY        |
| 9      | T82267 R0   | LIGHT, FENDER RIGHT            |
| 10     | T82268 R0   | LIGHT, FENDER LEFT             |
| 11     | 500087 R0   | BOLT,CARR 3/8 UNC X 1, ZP      |
| 12     | 226220 R0   | BOLT, 3/8UNCX1-1/4 HXHD PLTD.  |
| 13     | 174986 R0   | WASHER, 3/8 NOM PL"            |
| 14     | 227814 R0   | NUT, 3/8 HX LOCK PL UNC"       |
| 18     | 448016 R0   | CHAIN, SAFETY 3/8 X 30" GR 70  |
| 19     | T41489 R0   | SOCKET,TRLR CONNECTOR 7 WAY    |

| PARTS NOT SHOWN |                                         |
|-----------------|-----------------------------------------|
| PART NUMBER     | DESCRIPTION                             |
| A448037 R0      | HARNESS, YELLOW, TRAILER RUNNING LIGHTS |
| 448017 R0       | HARNESS, BLUE, ARTIC RV W/7 PIN CONN.   |
| 448019 R0       | BOX, JUNCTION, DC RUNNING LIGHTS        |
| T32550 R2       | HOLDER, FOOT CONTROL, RED               |

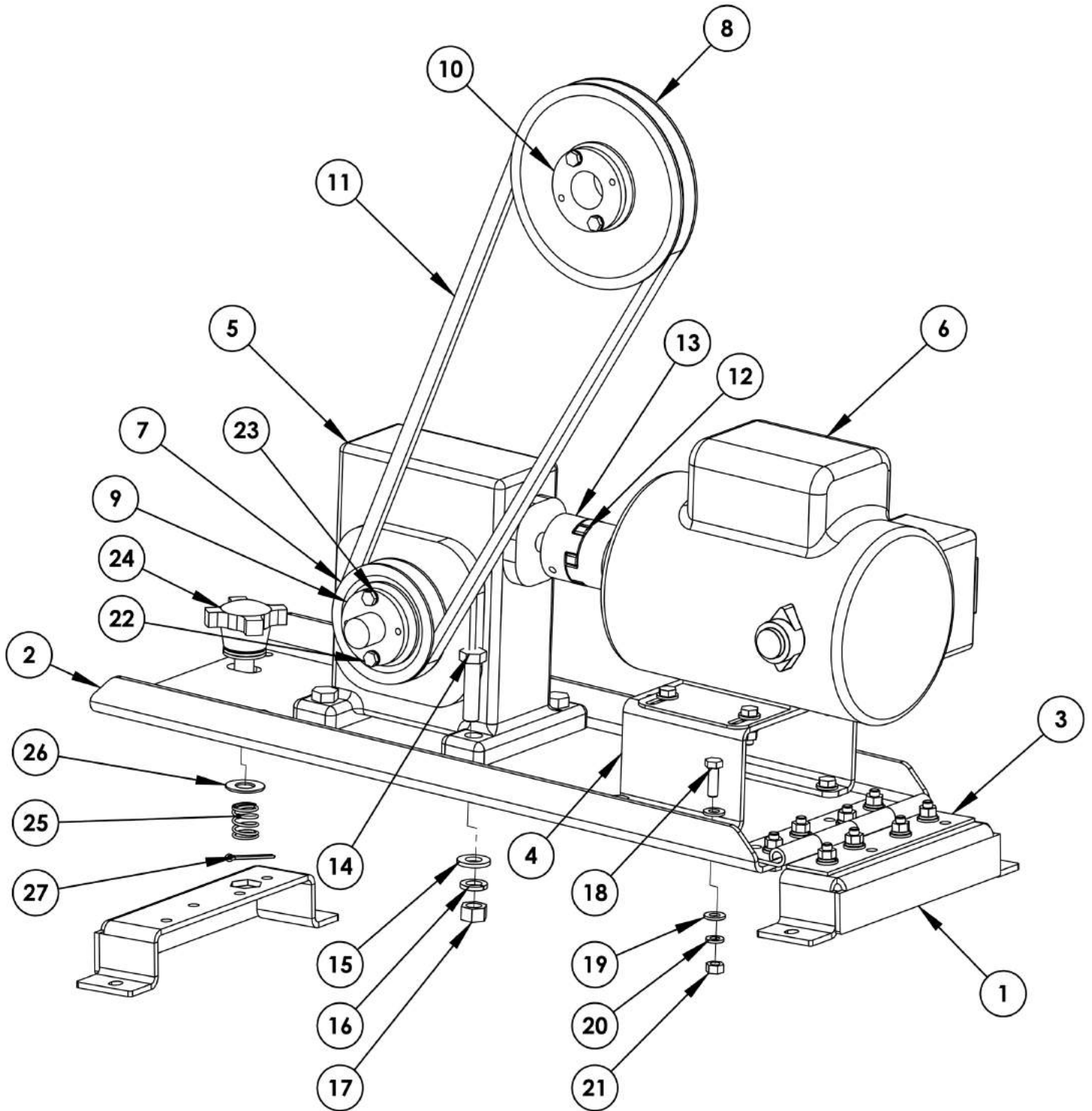
# HOSE REEL ASSEMBLY



# T32189 Hose Reel Parts List

| ITEM # | PART NUMBER | DESCRIPTION                    |
|--------|-------------|--------------------------------|
| 1      | T32685 R8   | STAND,HOSE REEL TCH            |
| 2      | T81125 R1   | BEARING, INSERT                |
| 2      | T81130 R0   | HOUSING, PILLOW BLOCK          |
| 3      | T32700 R4   | DRUM,HOSE REEL TCH250          |
| 11     | 700405 R0   | LOCK, SLIDING SPRING BOLT 3/4" |
| 13     | 500092 R0   | BKT,GUARD BELT REEL LWR        |
| 14     | 500093 R0   | BKT,GUARD BELT REEL UPR        |
| 15     | T23480 R0   | EXPANSION TANK                 |
| 16     | T30576 R2   | SUPPORT,EXP TANK               |
| 17     | T22265 R0   | VALVE,BALL 1/2" IPS            |
| 21     | A500140 R0  | ASSY,WA,REEL SUPPORT GUSSET    |

# REEL MOTOR ASSEMBLY

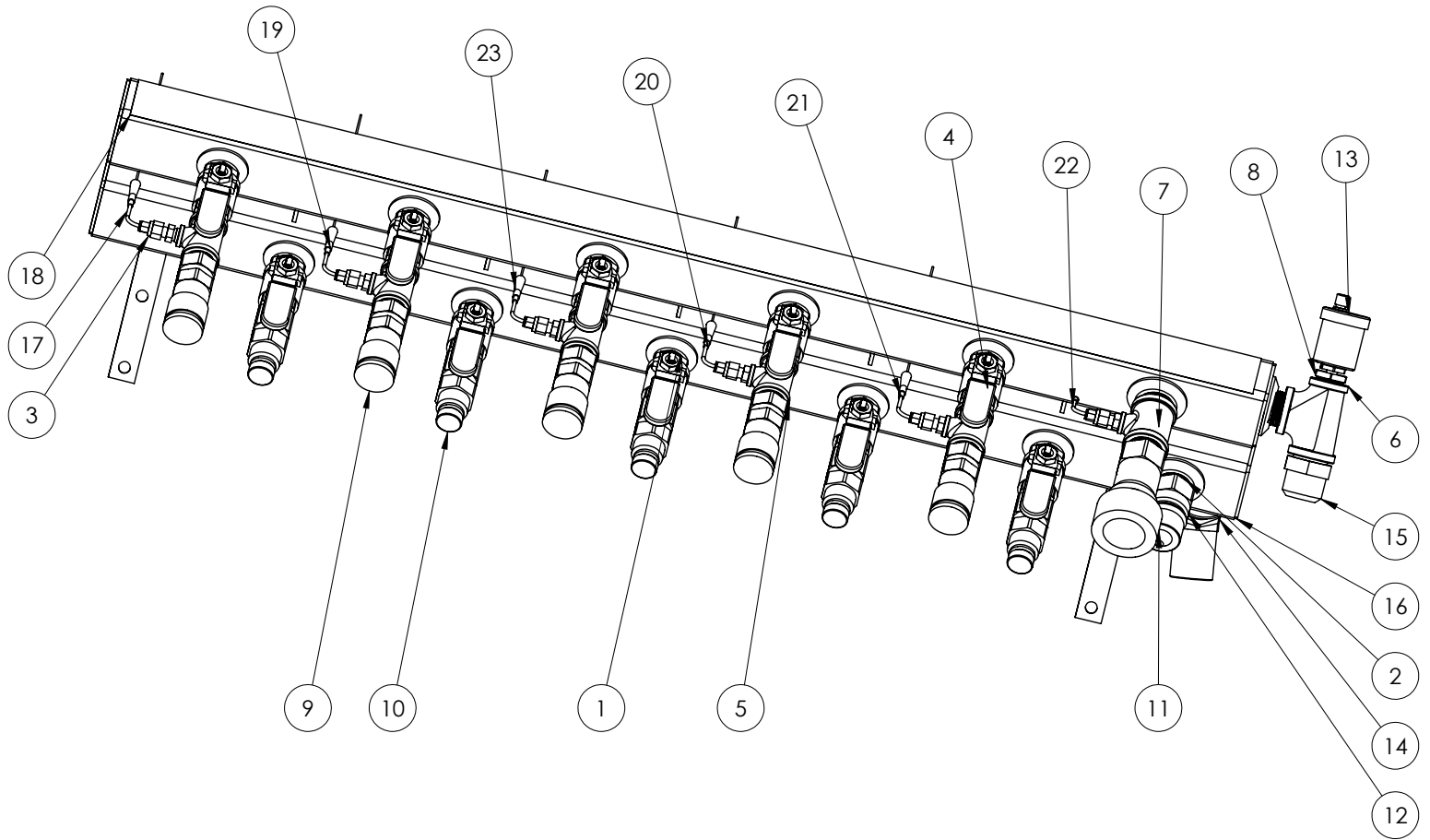


# A500081 Reel Motor Parts List

| ITEM # | PART NUMBER | DESCRIPTION                    |
|--------|-------------|--------------------------------|
| 1      | 500039 R1   | BKT,REEL MOTOR HINGE MNT       |
| 2      | 448224 R3   | Motor Plate, Hinged            |
| 3      | 448238 R0   | HINGE, STEEL, 4" FLAT, 3/8 PIN |
| 4      | 448231 R2   | BRACKET, REEL MOTOR MOUNT      |
| 5      | 496644 R0   | GEAR REDUCER, 60:1, WORM GEAR  |
| 6      | 219105 R0   | MOTOR, 3/4HP                   |
| 7      | 500129 R0   | PULLEY,2BK40H                  |
| 8      | 500128 R0   | PULLEY,2BK70H                  |
| 9      | 448264 R0   | BUSHING, H X 1                 |
| 10     | 470211 R0   | BUSHING,H 1-1/4"               |
| 11     | 500095 R0   | BELT-V,B50                     |
| 12     | 448253 R0   | INSERT, L090-095, NEOPRENE     |
| 13     | 448254 R0   | COUPLING, L090-095, HUB        |
| 14     | 226649 R0   | BOLT, 1/2UNCX2 HX GR.8"        |
| 15     | 225802 R0   | WASHER, FLAT, 1/2", GR8        |
| 16     | 176250 R0   | WASHER, 1/2 SPRING PL          |
| 17     | 444822 R0   | NIPPLE, 1 INSERT KC X MIP"     |
| 18     | 225980 R0   | BOLT, 5/16-18 X 1 HX GR2 CP NC |
| 19     | 174990 R0   | WASHER, 5/16 ID X 3/4 OD FL ZP |
| 20     | 176220 R0   | WASHER, SPRING PL 5/16         |
| 21     | 227820 R0   | NUT, 5/16 UNC HX PL"           |
| 22     | 121549 R0   | BOLT, 1/4X1" HEXHD GR5 ZP UNC" |
| 23     | 174430 R0   | WASHER, 1/4" LOCK, PL          |
| 24     | 448256 R0   | KNOB, BELT TENSIONER           |
| 25     | 448257 R0   | SPRING, BELT TENSIONER         |
| 26     | 444455 R0   | WASHER,NYLON 1 3/16 ODX5/8 ID  |
| 27     | 135990 R0   | PIN, COTTER 3/16X1.50          |



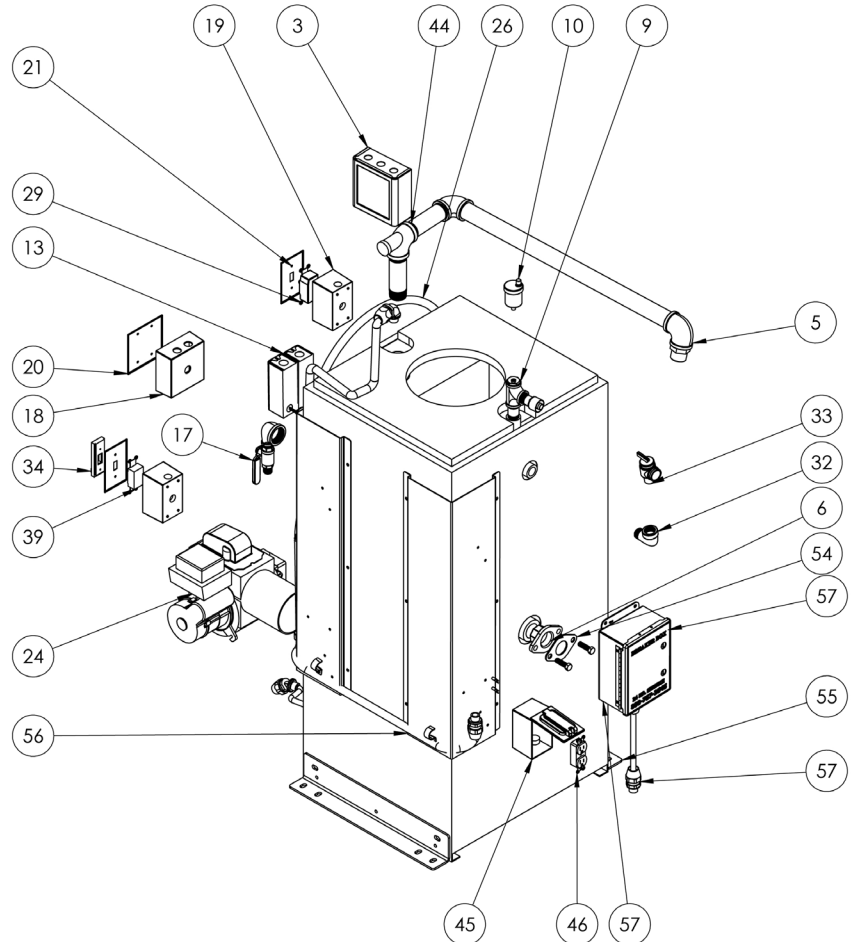
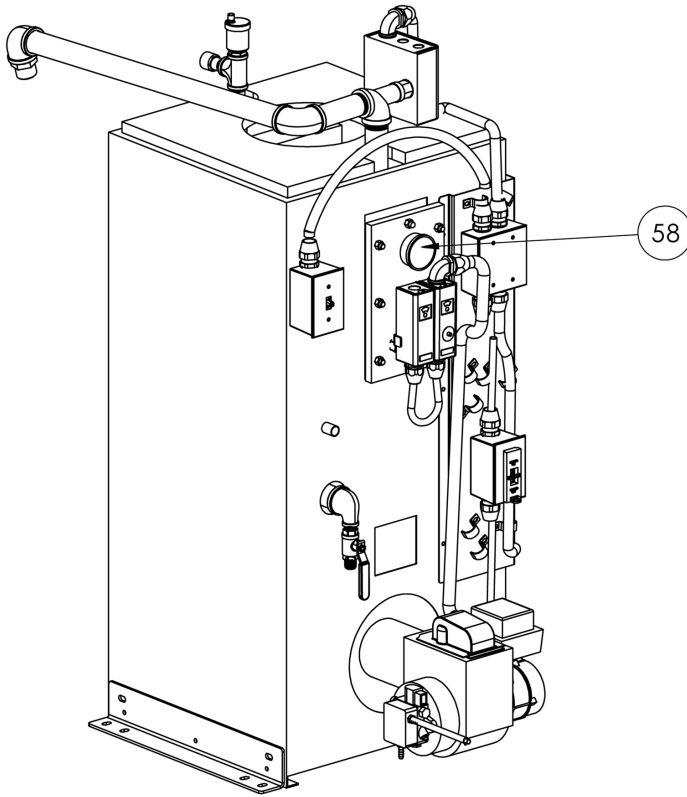
# MANIFOLD ASSEMBLY



# T32188 Manifold Parts List

| ITEM # | PART NUMBER | DESCRIPTION                    |
|--------|-------------|--------------------------------|
| 1      | T20675 R0   | BLK NIPPLE, 3/4" CLOSE         |
| 2      | T20750 R0   | NIPPLE, 1" CLOSE BLK           |
| 3      | T22194 R0   | FITTING,BR 1/4 COMP X 1/4 NPT  |
| 4      | T22280 R0   | BALL VALVE IPS 3/4 IN          |
| 5      | T22370 R0   | TEE, 3/4" X 3/4" X 1/4" BR     |
| 6      | T22383 R0   | BRASS TEE 1 IN X 1IN X 3/4 IN  |
| 7      | T22385 R0   | BRASS TEE 1 X 1 X 1/4          |
| 8      | T22447 R0   | BRASS BUSHING 3/4 IN X 1/8 IN  |
| 9      | T22880 R0   | COUPLING, BRSS 3/4" FNPTX5/8"  |
| 10     | T22895 R0   | COUPLING, BRASS, 3/4" MALE     |
| 11     | 444903 R0   | DISCONNECT, 1 QUICK BRASS F"   |
| 12     | 444902 R0   | DISCONNECT, 1 QUICK BRASS M"   |
| 13     | T23015 R0   | VALVE,AUTO BLEEDER 1/8"        |
| 14     | T23345 R0   | ELBOW,45D 1 1/4 JIC X 1 MNPT   |
| 15     | T23360 R0   | CONNECTOR,1 1/4" JIC X 1" MNPT |
| 16     | T32730 R1   | MANIFOLD,TCH250                |
| 17     | T40008 R0   | THERMOCOUPLE, ZONE #1,L/98"    |
| 18     | T51405 R0   | DECAL,MANIFOD STRIP TCH250     |
| 19     | T40009 R0   | THERMOCOUPLE, ZONE #2,L/89"    |
| 20     | T40011 R0   | THERMOCOUPLE, ZONE #4,L/ 70"   |
| 21     | T40012 R0   | THERMOCOUPLE, ZONE 5, 61"      |
| 22     | T40013 R0   | THERMOCOUPLE AUX 50"           |
| 23     | T40010 R0   | THERMOCOUPLE, ZONE #3,L/ 79"   |

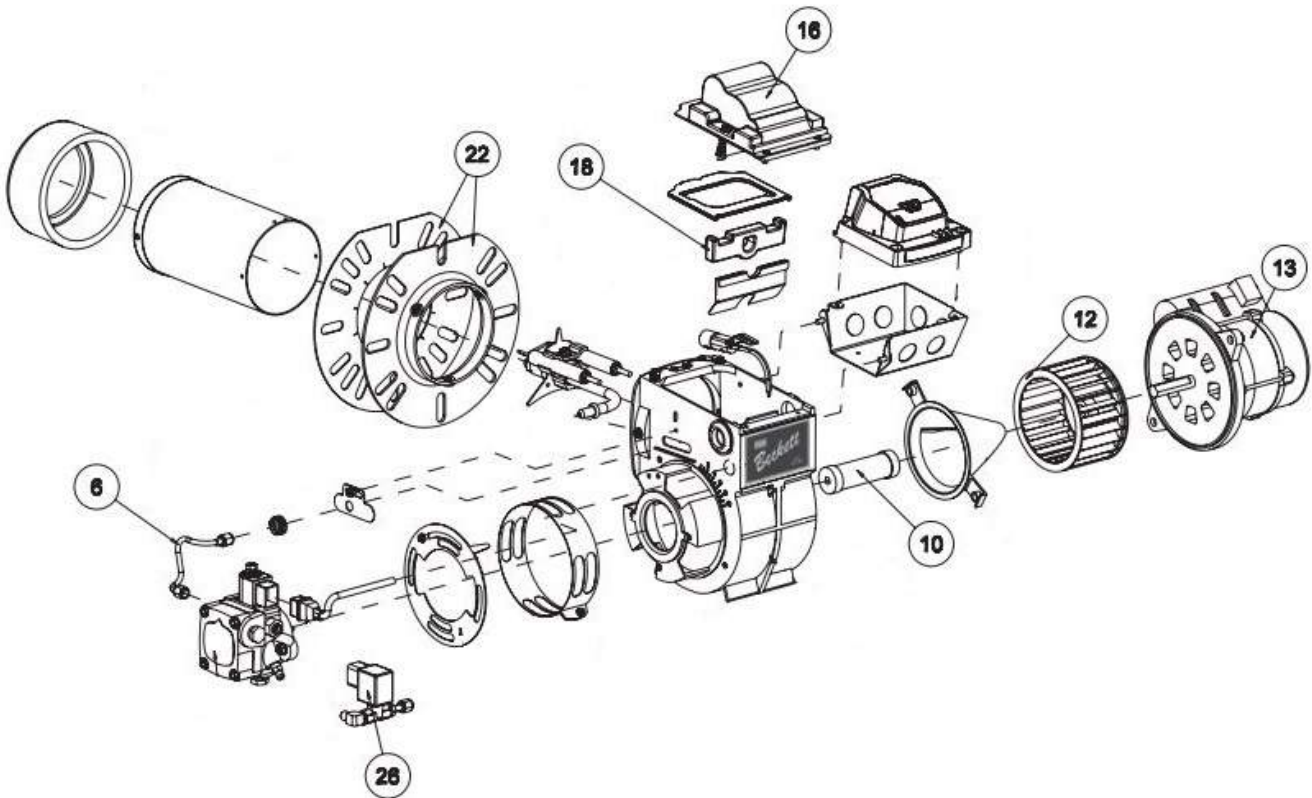
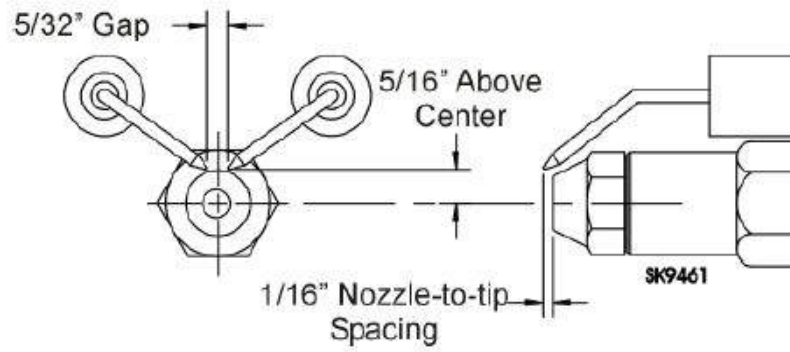
# BOILER



# T90250-40 Boiler Parts List

| ITEM # | PART NUMBER | DESCRIPTION                    |
|--------|-------------|--------------------------------|
| 3      | T23505 R0   | SWITCH,LOW LEVEL 550 SV        |
| 5      | T20240 R0   | ELBOW, CS. 90° 1 1/4"          |
| 6      | T23720 R0   | FLANGE SET B, 1 1/4" CI        |
| 9      | T21110 R0   | BUSHING,1" X 3/4" RED.         |
| 10     | T23015 R0   | VALVE,AUTO BLEEDER 1/8"        |
| 13     | T40375 R0   | AQUA CONTROLLER130-270,HILIMIT |
| 17     | T22265 R0   | VALVE,BALL 1/2" IPS            |
| 18     | T40640 R0   | BOX,OUTLET WPB252              |
| 19     | T40600 R0   | BOX,JUNCTION GREY              |
| 20     | T40585 R0   | COVER,JUNCTION BOX ELECTRICAL  |
| 21     | T40705 R0   | PLATE,SWITCH SS 84001 LEV 1G   |
| 24     | T10416 R0   | BURNER,BECKETTE EM200 TCH250   |
| 26     | T41421 R0   | LIQ-TITE GREY,1/2" NMUA 100FT  |
| 29     | T40720 R0   | SWITCH,DOUBLE THROW MOMENTARY  |
| 32     | T20360 R0   | ELBOW, 3/4" ST BLK 90D         |
| 33     | T10615 R0   | VALVE,TEMP AND PRESS RELIEF    |
| 34     | T40090 R0   | LOCKOUT,WALL SWITCH            |
| 39     | T40690 R0   | SWITCH,TOGGLE -PILOT           |
| 44     | T20553 R0   | TEE, 1 1/4"X 3/4" X 1 1/4" CS  |
| 45     | T40630 R0   | BOX,JUNCTION SD450S            |
| 46     | T40795 R0   | RECEPTACLE,CR15-W              |
| 54     | T23675 R0   | GASKETS, 1 IN. RED             |
| 55     | 500115 R1   | BKT,BOILER MOUNT               |
| 56     | 500112 R0   | BKT,BOILER CORNER              |
| 57     | T41850 R3   | BREAKER BOX ASM 150/250        |
| 58     | T10675 R0   | GAUGE, PRESS/TEMP              |

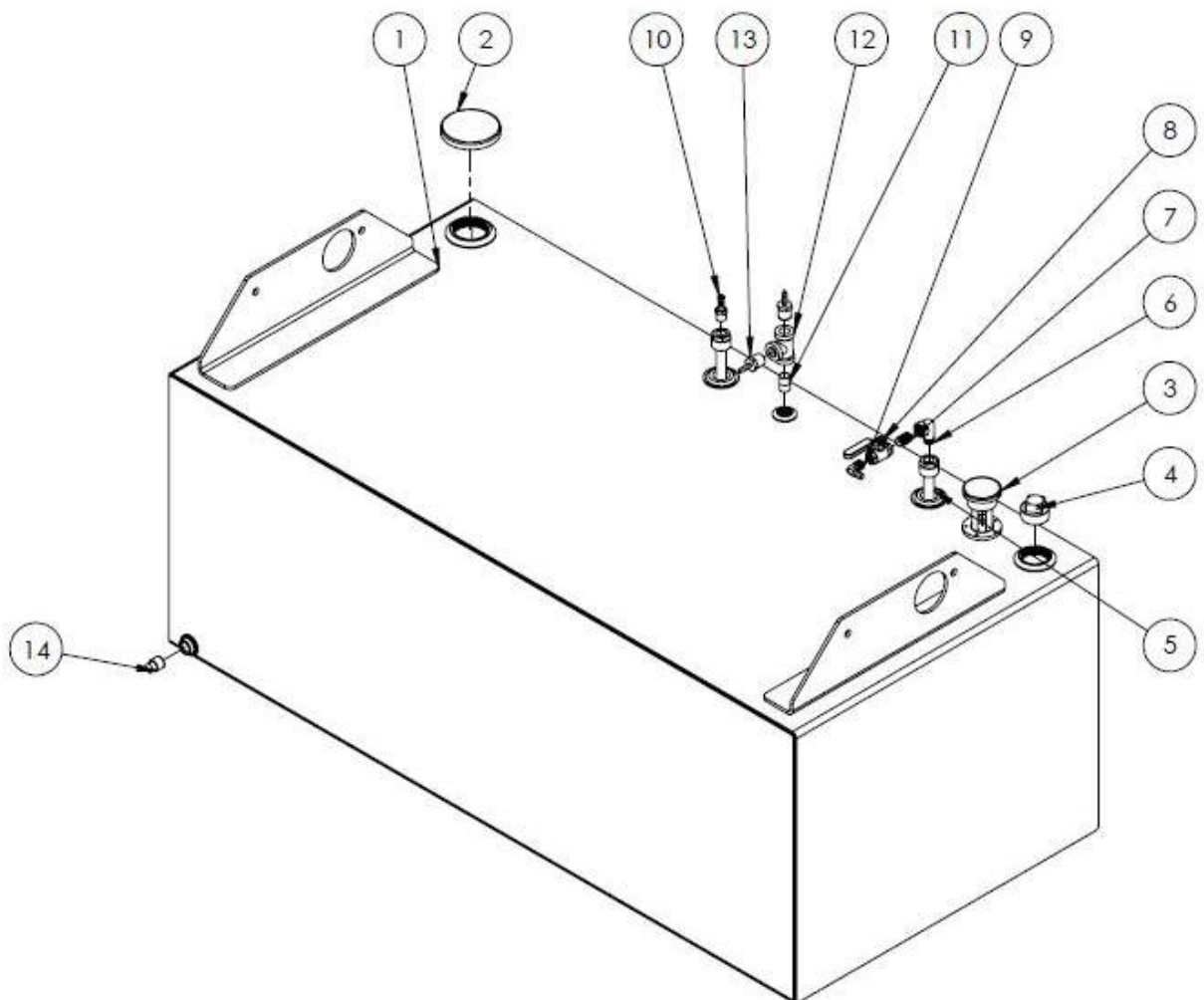
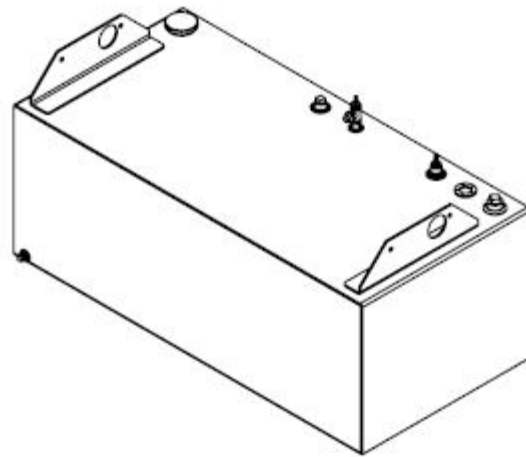
# BURNER



# Burner Parts List

| ITEM NO | PART NUMBER | DESCRIPTION                  |
|---------|-------------|------------------------------|
| 6       | T10465 R0   | PUMP, CLEAN CUT              |
| 10      | T10375 R0   | COUPLING, BLOWER             |
| 12      | T10378 R0   | FAN, SQUIRREL CAGE           |
| 13      | T10360 R0   | MOTOR, BURNER 21805U- 1/7 HP |
| 16      | T10660 R0   | CONTROLLER, PRIMARY          |
| 18      | T10405 R0   | TRANSFORMER, BECKETT         |
| 22      | T10510 R0   | GASKET, BURNER               |
| 26      | T10495 R0   | SOLENOID, REPLA FUEL VALVE   |
| 33      | T10390 R0   | ELECTRODE, BECKETT           |
| 34      | T10628 R0   | OIL NOZZLE, DELAVAN 1.75 80A |

# FUEL TANK ASSEMBLY

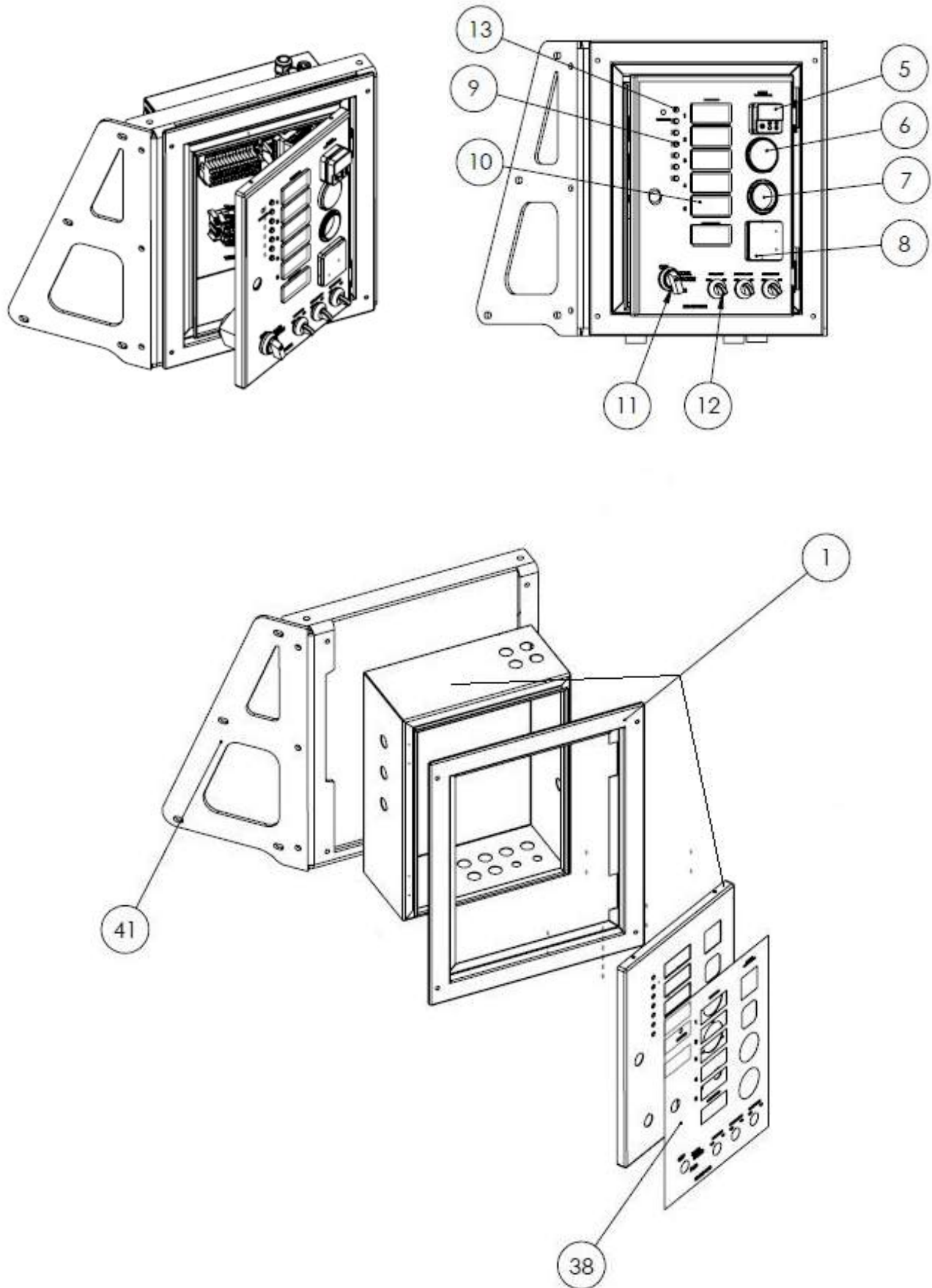




# T90250-60 Fuel Tank Parts List

| ITEM # | PART NUMBER   | DESCRIPTION                    |
|--------|---------------|--------------------------------|
| 1      | 500175 R0     | TANK,FUEL 146 GA DUAL WALL     |
| 1      | 500175-CSA R0 | TANK,FUEL 146 GA DUAL WALL CSA |
| 2      | T50210 R0     | FILL CAP,PREVENT               |
| 3      | 500109 R0     | SENDER,FUEL GUAGE              |
| 4      | T22130 R0     | GALV. PLUG 1 1/2 IN.           |
| 5      | A500100 R1    | ASSY,WA,FUEL PICKUP TUBE       |
| 6      | T21940 R0     | ELBOW, STREET, 3/8" BLK        |
| 7      | T21950 R0     | NIPPLE, 3/8" CLOSE BLK         |
| 8      | 500104 R0     | VALVE,BALL 3/8" BRASS FULLPORT |
| 9      | 460777 R0     | BARB, 3/8NPT X 3/8 LOL 90DEG   |
| 10     | 460843 R0     | BARB, 3/8NPT X 3/8 HOSE BRASS  |
| 11     | T22010 R0     | NIPPLE, 1/2 IN. X CLOSE GLV    |
| 12     | T21920 R0     | TEE, 1/2IN GLV.                |
| 13     | T22700 R0     | BARB,1/4"X1/2"MIP              |
| 14     | T22085 R0     | GALV. PLUG 1/2 IN.             |

# CONTROL PANEL



# T40200 Control Panel Parts List

| ITEM # | PART NUMBER | DESCRIPTION                  |
|--------|-------------|------------------------------|
| 1      | T41845 R5   | PNL,ENCLOSURE TCH250         |
| 5      | T40075 R0   | CONTROLLER,WATLOW            |
| 6      | T40210 R0   | HOURLMETER 2",120VAC         |
| 7      | T40212 R0   | FUEL GAUGE,24VDC 240-33.5OHM |
| 8      | T40105 R0   | VOLT METER, AC RANGE 0-150V  |
| 9      | T40252 R0   | LIGHT,INDICATOR GREEN NEON   |
| 10     | T43805 R0   | DISPLAY,TEMPERATURE          |
| 11     | T40495 R0   | SWITCH,MULTI-STEP            |
| 12     | T40480 R0   | SWITCH,2POS M22S-WKV         |
| 13     | T42825 R0   | LIGHT,RED                    |
| 38     | T51399 R0   | DECAL,CONTROL PNL TCH 250    |
| 41     | 500040 R0   | BKT,CONTROL PNL MNT          |

| PARTS NOT SHOWN |                      |
|-----------------|----------------------|
| PART NUMBER     | DESCRIPTION          |
| 446090 R0       | SWITCH, FOOT 20A 1HP |

# Hoses Part List

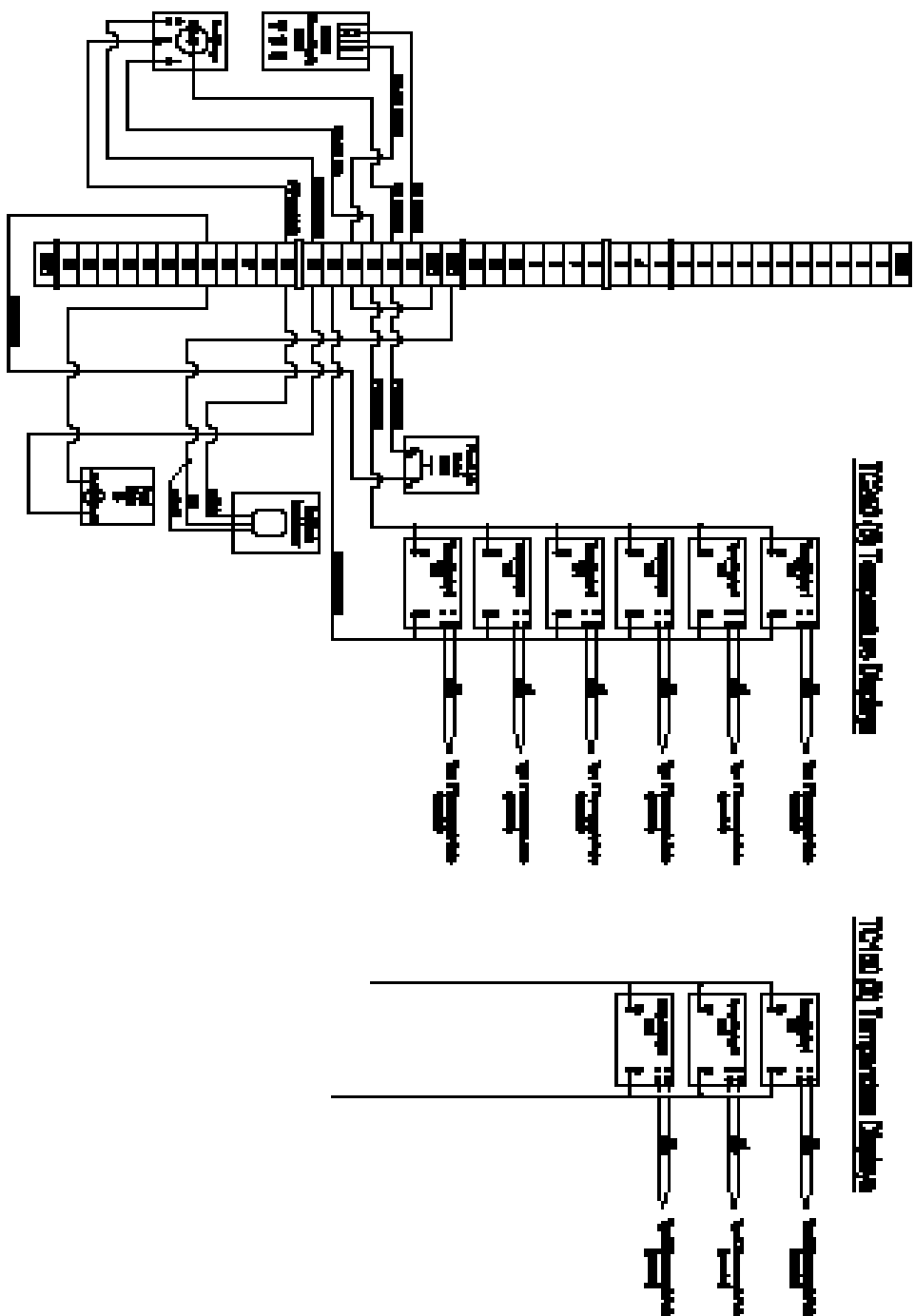
| PARTS NOT SHOWN |                                                         |
|-----------------|---------------------------------------------------------|
| PART NUMBER     | DESCRIPTION                                             |
| T23563 R0       | ASSY,HOSE 5/8X41, 3/4 FSWVLXNP, Reservoir Overflow      |
| T23562 R1       | ASSY,HOSE 5/8X18,3/4 SWVL XMIP, Reservoir to Pump       |
| T23561 R2       | ASSY, HOSE 5/8X18"FGHX1/2NPT, Pump to Boiler            |
| T23560 R1       | ASSY,HOSE 5/8X32,3/4 FSWVLXNPT, Boiler to Reservoir     |
| T81621 R0       | ASSY,HOSE 1 1/4" X OAL14", Boiler to Manifold Supply    |
| 500142 R0       | ASSY,HOSE 5/8 X19 3/4FJIC&MPT, Boiler to Expansion Tank |
| 500106 R0       | ASSY, HOSE 1 1/4" X 57", Manifold Supply                |
| 500107 R0       | ASSY, HOSE 1 1/4" X 60", Manifold Return                |
| A500120 R0      | ASSY, HOSE 5/8" W/QUICK CONN                            |

## Notes

[illegible]



## VDC Power Distribution

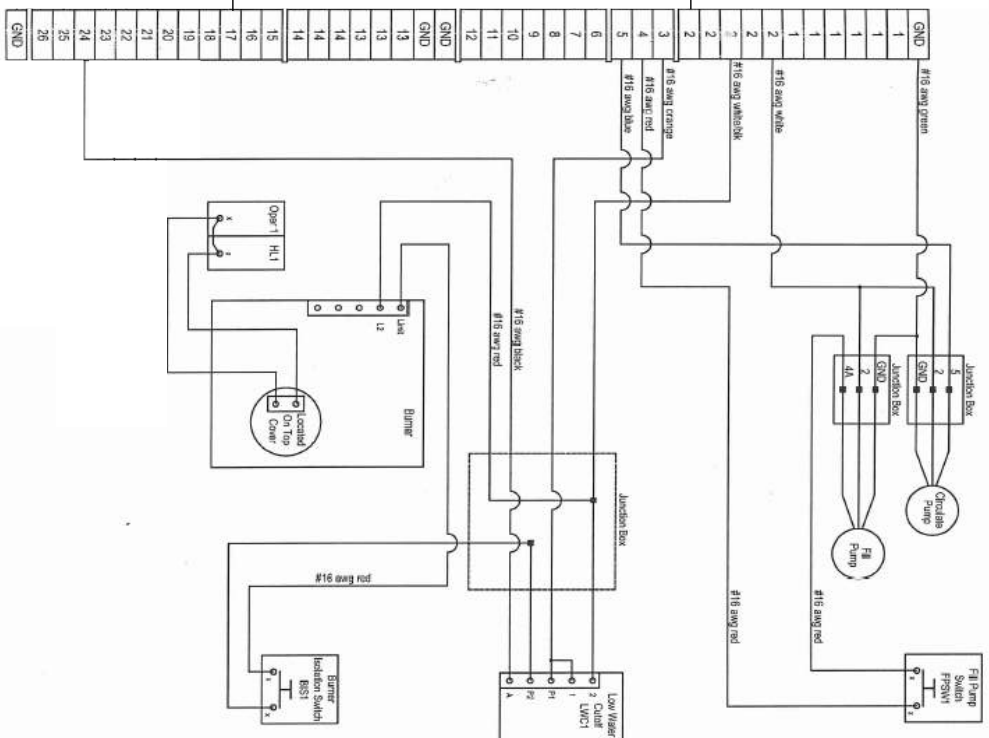
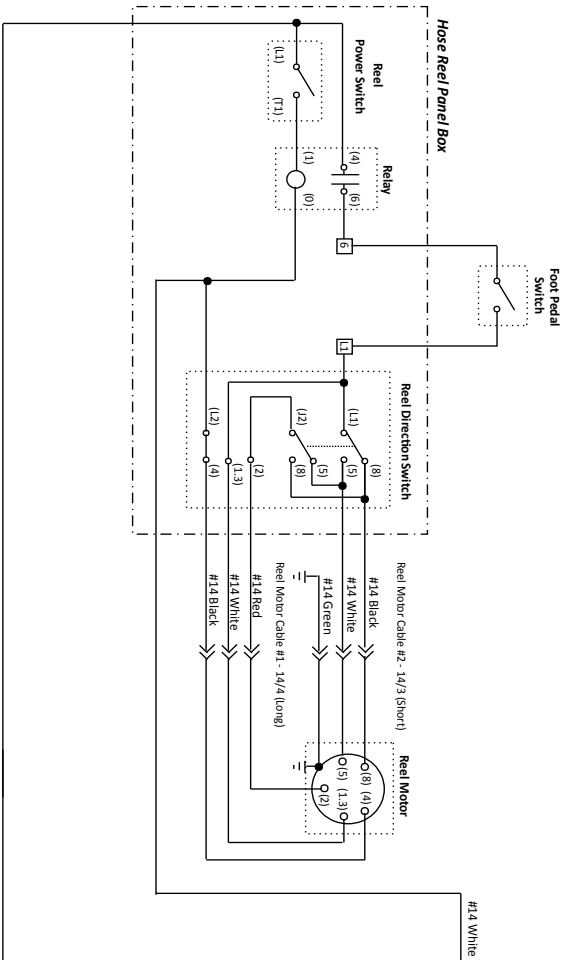
[illegible]





## TC150 / TC250

## Hose Reel Motor Diagram



## Burner Diagram

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