

USER MANUAL

WHEEL-MOUNTED PORTABLE COMPRESSOR \ 1600 CFM



D1600PHCA4(AF)
D1600PCA4(AF)

CATERPILLAR DIESEL ENGINE
TIER 4 FINAL

DOCUMENT INFORMATION

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Part Number: 05018730 0219
Revision: 00

CONTACT INFORMATION

Sullivan-Palatek, Inc.
1201 West US Highway 20
Michigan City, Indiana 46360
Phone: (219) 874-2497
Fax: (219) 872-5043
Toll Free: (800) 438-6203
Website: www.sullivan-palatek.com

RECORD KEEPING

Record the model and serial number of the compressor for future reference when contacting the factory for service or parts.

Model Number: _____

Serial Number: _____

DISCLAIMER

Although this manual is checked for conformity with the machines described, we cannot guarantee that all errors will be excluded. Necessary corrections will be made in future editions of this manual. This manual is subject to change without notice.

REVISION HISTORY

| # | DATE | SECTION(S) | DESCRIPTION |
|----|------------|------------|--------------------------|
| 00 | 2017-04-12 | | Released for publication |

Sullivan-Palatek Portable Air Compressor STANDARD WARRANTY

Sullivan-Palatek warrants its new portable air compressor products to be free from defects in material and workmanship, subject to the following provisions:

Warranty Registration: To validate the warranty for each product the purchaser shall complete and return the Warranty Registration Form within 30 days of delivery to the first user or rental.

Warranty Period: The warranty period for applicable Sullivan-Palatek products is as follows (subject to the Exclusions and Limitations noted below):

Air ends on new machines – stator and rotor assembly: Single stage compressor models: the first to expire; 42 months from shipment by Sullivan-Palatek or 36 months from delivery to the first user. **Two stage high pressure** compressor models: the first to expire; 30 months from shipment by Sullivan-Palatek or 24 months from delivery to the first user.

Remainder of new portable air compressor machines: the first to expire; 18 months from shipment by Sullivan-Palatek or 12 months from delivery to the first user.

Parts, accessories and attachments sold separately from machines, excluding warranty replacement parts and hand tools: the first to expire; 6 months from shipment by Sullivan-Palatek or 3 months from delivery to the first user.

Warranty replacement parts: remainder of the original warranty period of the replaced part.

Sullivan-Palatek's Obligations: Sullivan-Palatek's exclusive obligations under its warranty are (i) to repair or replace any defective part at Sullivan-Palatek's option and subject to return of defective parts, (ii) to pay the reasonable cost of making the repair or reinstalling the replacement part, and (iii) for air compressors having two or more axles, reimbursement of up to four hours travel labor and up to 200 miles (100 miles travel radius) per event to make repairs. Reimbursement rates for travel and mileage are set at the discretion of Sullivan-Palatek and are subject to change without notice.

Purchaser's Responsibility: Purchaser shall (i) give Sullivan-Palatek written notice of any warrantable failure of any Sullivan-Palatek product within the applicable warranty period, (ii) make the product available for repair at a Sullivan-Palatek authorized repair facility, (iii) pay all costs of returning failed parts to Sullivan-Palatek, (iv) pay shipping costs for replacement parts, (v) pay reasonable travel expenses for field repairs performed at purchaser's request, and (vi) pay the costs of investigating performance complaints that are not covered by this warranty.

Exclusions and Limitations: Air end seals are not warranted. Engines, tires and batteries are not warranted by Sullivan-Palatek but are warranted only by the manufacturers of these components. Sullivan-Palatek has no obligation for product failures or defects resulting from overloading, misuse, neglect, accident, failure to comply with Sullivan-Palatek's product manual, or failure to install product improvements provided by Sullivan-Palatek. Use of attachments, accessories or service parts not supplied or recommended by Sullivan-Palatek may void the warranty of that product. Sullivan-Palatek has no obligation to pay costs of returning defective parts to Sullivan-Palatek or shipping replacement parts to purchaser.

THIS WARRANTY IS SULLIVAN-PALATEK'S ONLY WARRANTY OF ITS PORTABLE AIR COMPRESSOR PRODUCTS AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED. ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. SULLIVAN-PALATEK HAS NO OBLIGATION UNDER THIS WARRANTY OR OTHERWISE (REGARDLESS OF THE FORM OF ACTION) FOR SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES, INCLUDING WITHOUT LIMITATION LOST PROFITS OR LOST INCOME. THE TOTAL RESPONSIBILITY OF SULLIVAN-PALATEK FOR CLAIMS, LOSSES, LIABILITIES OR DAMAGES, WHETHER IN CONTRACT OR TORT ARISING OUT OF OR RELATED TO ITS PRODUCTS SHALL NOT EXCEED THE PURCHASE PRICE OF THE COVERED PRODUCT.

This warranty applies to all Sullivan-Palatek portable air compressors shipped after November 1, 2015 unless expressly superseded by a later warranty. In the event of any conflict between this warranty and earlier warranty statements, the terms of this warranty will apply.



ABOUT THIS MANUAL

I.1 SAFETY INSTRUCTIONS

Instructions for the safe operation and maintenance of the Sullivan-Palatek air compressor are located throughout this manual. These instructions are presented with different labels according to the level of risk involved, described as follows.

WARNING! *is used when death or personal injury could occur if the instruction is not followed.*

CAUTION! *is used when damage to property could occur if the instruction is not followed.*

NOTE! *is used to inform the reader of installation, operation or maintenance information that is important but not hazardous.*

I.2 MANUAL ORGANIZATION

NOTE! *Anyone operating or servicing the Sullivan-Palatek air compressor should read this entire manual and be familiar with its information. The following is a quick guide to the contents in this manual:*

SECTION 1: SAFETY

This section contains important basic information regarding general safety precautions for maintaining and operating air compressors.

SECTION 2: SPECIFICATIONS

This section contains all the engineering information related to the specific air compressor such as application data, dimensional drawings and wiring diagrams.

SECTION 3: COMPONENT DESCRIPTION

This section contains information about how the different systems and components function within an air compressor.

SECTION 4: TRANSPORTING AND LOCATING

This section contains instructions and safety guidelines for transporting and locating a portable air compressor.

SECTION 5: OPERATION

This section contains an overview of general operating safety, initial start-up procedures, how to start and stop the air compressor, in addition to guidelines for operating under extreme conditions.

SECTION 6: MAINTENANCE

This section contains a maintenance schedule and step-by-step instructions for performing common maintenance procedures.

SECTION 7: TROUBLESHOOTING

This section contains symptoms, causes and remedies for common air compressor malfunctions.

SECTION 8: PARTS CATALOG

This section contains procedures for ordering parts, a list of recommended spare parts to keep on hand, and exploded assembly drawings with corresponding parts lists of all the parts on the air compressor.

I.3 SUPPLEMENTAL DOCUMENTS

For more detailed information on certain components or optional equipment specific to this compressor, supplemental documents are provided in addition to the standard compressor manual.



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1 SAFETY

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**CALIFORNIA
PROPOSITION 65 WARNING**

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

1.1 GENERAL SAFETY

Safety is a prime consideration in the design and manufacture of the compressor. Ultimately, the responsibility for safe operation rests with the individuals who use and maintain the compressor. The following safety precautions are offered as a guide for the safe operation and maintenance of this machinery:

- » Only trained and authorized personnel who have read and understand this user's manual should operate the air compressor. Failure to follow the instructions, procedures, and safety precautions in this manual will increase the possibility of accidents and injuries.
- » Never start the air compressor unless it is safe to do so. Do not attempt to operate the air compressor with a known unsafe condition. If an unsafe condition exists or maintenance is required, tag the air compressor and render it inoperative by disconnecting the battery so others who may not know of the unsafe condition cannot attempt to operate it until the unsafe condition is corrected.
- » Use and operate the air compressor only in full compliance with all pertinent Federal, State and Local codes or requirements including OSHA, EPA and other relevant agency requirements.
- » Do not modify this compressor or install attachments without consulting the manufacturer.
- » Known and potential hazards associated with the operating and servicing of portable air compressors are detailed in the following pages. Not all hazards can be anticipated and the operator of the equipment is ultimately responsible for identifying hazardous and dangerous conditions, avoiding dangerous operation and preventing accidents.

1.2 PRESSURE RELEASE

- » Remove the pressure from air, oil, and cooling circuits before disconnecting pipes, fittings or related items. Pay attention to the possible residual pressure when you disconnect a device from a pressurized circuit.
- » Do NOT try to detect pressure leaks with your hands. It is not always possible to identify a leak from a tiny hole. Use a piece of paper or wood to locate a suspected leakage. Wear safety glasses when detecting leaks.
- » Oil, fuel, or compressed air can cause injuries. Fluid leaking under pressure has enough force to penetrate under the skin and cause serious bodily injuries.
- » Do not open sump (receiver) oil filler cap when compressor is running and air system is pressurized. Shut down the compressor and bleed the sump (receiver) pressure to zero before removing the oil filler cap.
- » Do not remove cooler cap while the engine is running, or immediately after the engine stops. Wait until the coolant temperature is below its boiling point, then loosen cap slowly to its stop to relieve any excess pressure. Make sure coolant is not boiling before removing cap completely, and protect yourself by wearing safety glasses.
- » The ethyl ether in the replaceable cylinders used in diesel engine ether starting aid systems is under pressure. Do not puncture or incinerate these cylinders. Do not attempt to remove the center valve core or side pressure relief valve from these cylinders regardless of whether they are full or empty.

1.3 FIRES AND EXPLOSION

1.3.1 FUEL & LIQUIDS

WARNING! *Fire or explosion can result from spilled fuel, oil and other flammable liquids.*

- » Refuel at a service station or from a fuel tank designed for the purpose. Ground the machine to mobile dispensers prior to refueling.
- » Ethyl ether used in diesel engine ether starting aid systems is extremely flammable. Change cylinders and service these systems only in well-ventilated areas away from heat, open flame or sparks. Do not install, store or otherwise expose ether cylinders to temperatures above 160°F (71°C).
- » Immediately clean up any spills or leaking fuel, battery electrolyte, oil, or anti-freeze solution.
- » Keep sparks, flames, and other sources of ignition away and do not permit smoking in the vicinity when adding fuel, checking or adding electrolyte to batteries, checking or adding oil, checking diesel engine ether starting aid systems or replacing ether cylinders, or when refilling air line anti-icing systems with anti-freeze.
- » Replace damaged fuel tanks or lines. Do not store or attempt to operate the compressor with any known leaks in the fuel system or oil lines.

- » Do not permit liquids to accumulate in bottom of the compressor frame. Prevent contact with acoustical surfaces of the air compressor. Wipe down using an aqueous industrial cleaner or steam clean as required. If necessary, remove acoustical material, clean all surfaces and then replace acoustical material. Do not use flammable solvents for cleaning purposes.
- » Anti-freeze compound used in airline anti-icing systems contains methanol, which is flammable. Use systems and refill with compound only in well-ventilated areas, away from heat, open flames, or sparks. Do not expose any part of these systems or the anti-freeze compound to temperatures above 150°F (65°C). Vapors from the anti-freeze compound are heavier than air. Do not store compound or discharge treated air in confined or unventilated area. Do not store containers or anti-freeze compound in direct sunlight.
- » Store flammable liquids in suitable containers and cabinets, away from sources of sparks and heat.

WARNING!

Use only properly installed and plumbed ether starting aid systems connected to the diesel engine. Do not spray ether into compressor air inlet filter or into an air filter that serves both the engine and the compressor. Serious damage to the compressor or personal injury may result.

1.3.2 BATTERIES AND WIRING

WARNING!

Fire or explosion can result from electrical arcing from terminal, battery connections and improperly grounded equipment.

- » Do NOT check the battery charge by placing a metal object between the terminals. Use a voltmeter or a hydrometer.
- » Do NOT charge a frozen battery. There is risk of explosion. If the battery is frozen, heat it up to at least 61°F (16°C).
- » Do NOT charge a battery that is in excess of 113°F (45°C).
- » Disconnect the grounded (negative) battery connection prior to attempting any repairs or cleaning inside the enclosure. Tag the ground cable with a warning not to reconnect until servicing is complete.
- » Keep electrical wiring, battery terminals and other terminals in good condition. Replace any wiring that has cracked, cut, abraded, or otherwise degraded insulation. Replace terminals if worn, discolored or corroded. Keep all terminals clean and tight. Turn off battery charger before making or breaking connections to the battery. Wear a face shield whenever servicing or working on the battery.
- » Keep tools and other grounded conductive objects away from exposed live electrical parts to avoid arcing, which might serve as a source of ignition.
- » Always avoid electrical parts when washing the compressor.

1.3.3 COMBUSTIBLES

- » Prior to welding or making weld repairs on the compressor, remove any acoustical material or other material that may be damaged by heat or that may support combustion. Remove and isolate negative battery cable.
- » Do not operate compressor under low overhanging leaves or permit leaves and foliage to contact hot exhaust system surfaces when operating in forested areas.
- » Do not expose dry grass, grass cuttings, oil, or any other flammable material to exhaust gases. Always keep the engine and muffler clean.
- » Keep oily rags, trash, leaves, litter, or other combustibles out of and away from the compressor.
- » Keep a suitable fully charged class BC or ABC fire extinguisher or extinguishers nearby when servicing and operating the compressor.

1.4

MOVING PARTS

- » Make sure all personnel are clear of the compressor prior to starting, operating, or shutting off the compressor.
- » Keep hands, arms, and other parts of the body, as well as clothing, away from belts, pulleys, and other moving parts.
- » Wear snug fitting clothing and confine long hair when working around compressors or any machinery.
- » Avoid slips and falls when working around the compressor. Keep hands, feet, floors, controls, and walking surfaces clean and free of oil, water, anti-freeze, or other liquids to minimize the possibility of slips or falls. Use extreme caution when ground is covered with ice or snow.

- » Do not attempt to operate the compressor with the fan guard or other guards removed. Keep access doors closed except when repairing, adjusting or performing service, or when starting or stopping the compressor.
- » Shut down engine before servicing, especially when adding fuel, oil, coolant, lubricants, airline anti-freeze compound, or battery electrolyte, and before replacing ether starting aid cylinders. The engine must also be shut down before making adjustments. Restart engine to check adjustment. If adjustment is incorrect, shut down the engine again, readjust, then restart engine to recheck the adjustment.

1.5 HOT SURFACES, SHARP EDGES, SHARP CORNERS AND VACUUM

- » Avoid contact with hot oil, hot coolant, hot surfaces, and sharp edges and corners.
- » Keep all parts of the body away from all points of air discharge and away from hot exhaust gases.
- » Wear personal protective equipment, including gloves, safety glasses and head covering when working in, on, or around the compressor.
- » Keep a first aid kit available. Seek medical assistance promptly in case of injury. Do not ignore small cuts and burns—these may lead to infection.
- » Keep all loose clothing and parts of the body away from engine and/or compressor intakes or air filter intakes.

1.6 TOXIC AND IRRITATING SUBSTANCES

WARNING! *Do not use air from this compressor for breathing air. Breathing unfiltered air from this compressor can result in serious injury or death.*

WARNING! *Ethyl ether used in diesel engine starting aid systems is toxic, harmful, and can be fatal if swallowed. Avoid contact with the skin or eyes and avoid breathing the fumes. If swallowed, do not induce vomiting but seek medical help immediately.*

NOTE! *Under specific guidelines and in full compliance with OSHA Standards 29 CFR 1920 and any other federal, state, or local codes or regulations compressed air can be used for breathing air. Sullivan-Palatek does not provide equipment and instructions for this application and its products are not produced for this application or use.*

- » Operate the compressor only in open or well-ventilated areas.
- » Carbon monoxide will kill. If the machine is operated indoors, discharge the engine exhaust outdoors and be certain there are no exhaust system leaks that can discharge exhaust within the building.
- » Locate the compressor so that exhaust will not be carried toward personnel, air intakes servicing personnel areas or toward the air intake of any other portable or stationary compressor.
- » Fuel, oil, coolant, lubricant, and battery electrolyte used in the compressor are typical of the industry. Care should be taken to avoid accidental ingestion or skin or eye contact. In the event of ingestion or contact, seek medical treatment promptly. Do not induce vomiting if fuel is ingested. Wash with soap and water in the event of skin contact.
- » Wear an acid-resistant apron and a face shield or goggles when servicing the battery. If electrolyte is spilled on skin or clothing, immediately flush and wash with large quantities of water.
- » Do not use airline anti-icing systems in airlines supplying respirators or other breathing air utilization and equipment, and do not discharge air from these systems in unventilated or other confined areas.
- » Wear goggles or a full face shield when testing ether starting aid systems or adding anti-freeze compound to air line anti-icing systems. Keep openings of valve, tube, or atomizer or ether starting aid system pointed away from all personnel.
- » The anti-freeze compound used in airline anti-icing systems contains methanol and is toxic, harmful, or fatal if swallowed. Avoid contact with the skin or eyes and avoid breathing the fumes. If contact with eyes, wash eyes with large quantities of clean water for at least 15 minutes. Medical attention should be obtained immediately. If swallowed, induce vomiting by administering a tablespoon of salt in a glass of clean, warm water until vomit is clear, then administer two teaspoons of baking soda in a glass of clean water. Lay down and cover eyes to exclude light. Seek medical assistance.
- » Do not store ether cylinders or airline anti-icing system anti-freeze compound in operator's cabs or in unapproved containers.

- » Do not mix different types of antifreeze. The mixture may cause a chemical reaction and release harmful substances.

1.7

ELECTRICAL SHOCK

- » Keep the towing vehicle or equipment carrier, compressor hoses, tools, and all personnel at least 10 feet from power lines and buried cables. Greater separation from power lines may be prudent when working around high voltage. Contact the utility company for guidance.
- » Keep all parts of the body, any hand-held tools, or other conductive objects away from exposed live parts of the compressor electrical system. Maintain dry footing, stand on insulating surfaces and do not contact any other portion of the compressor when making adjustments or repairs to exposed live parts of the electrical system.

1.8

ENTRAPMENT

- » Make sure all personnel are out of compressor before closing and latching enclosure doors. Larger compressors can hold a man. If it is necessary to enter the enclosure to perform service or adjustments, secure the access door in the open position to avoid the possibility of others closing and latching the door and inform personnel before entering the enclosure.

2

SPECIFICATIONS

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2.1

TECHNICAL DATA

D1600PHCA4 / D1600PCA4

| COMPRESSOR | D1600PHCA4 | D1600PCA4 |
|--------------------------------|--|--|
| Type | Single Stage, Oil Flooded Rotary Screw | Single Stage, Oil Flooded Rotary Screw |
| Rated Delivery | 1600 cfm (45 m ³ /min) | 1600 cfm (45 m ³ /min) |
| Rated Operating Pressure | 150 psig (10.3 bar) | 100 psig (6.9 bar) |
| Rated Operating Pressure Range | 90–150 psig (6.2–10.3 bar) | 90–150 psig (6.2–10.3 bar) |
| Ambient Temperature Range | -40 to +125°F (-40 to +52°C) | -40 to +125°F (-40 to +52°C) |
| Oil Capacity | 55 gallons (208 L) | 55 gallons (208 L) |
| Total Receiver Volume | 21 ft ³ (595 L) | 21 ft ³ (595 L) |
| Air Service Connector | 3-in NPT | 3-in NPT |
| Type Cooling System | Oil to Air | Oil to Air |
| Type Air Intake System | 3-Stage Dry | 3-Stage Dry |
| Type of Control | 0–100% Demand | 0–100% Demand |
| Tire Size | 235/75 R17.5 | 235/75 R17.5 |
| Estimated Weight, Serviced | 20,000 lbs (9072 kg) | 20,000 lbs (9072 kg) |

| ENGINE | D1600PHCA4 | D1600PCA4 |
|----------------------------------|-----------------------------|-----------------------------|
| Type | Diesel Tier 4 | Diesel Tier 4 |
| Engine Make | Caterpillar | Caterpillar |
| Engine Model | C15 | C15 |
| Number of Cylinders | 6 | 6 |
| Bore and Stroke | 5.4 × 6.7 in (137 × 169 mm) | 5.4 × 6.7 in (137 × 169 mm) |
| Displacement | 915 in ³ (15 L) | 915 in ³ (15 L) |
| Horsepower @ Rated RPM | 540 hp (403 kW) | 475 hp (354 kW) |
| Total Oil Capacity | 17 gallons (64.3 L) | 17 gallons (64.3 L) |
| Cooling System Capacity | 18.5 gallons (70 L) | 18.5 gallons (70 L) |
| Battery Rating Volts | 24 volts | 24 volts |
| Cold Cranking Amps @ 0°F (-18°C) | 1400 amps | 1400 amps |
| Full Load Speed | 2000 rpm | 2000 rpm |
| Idle Speed | 1400 rpm | 1400 rpm |
| Fuel Tank Capacity | 224 gallons (1018 L) | 224 gallons (1018 L) |
| DEF Tank Capacity | 12.9 gallons (48.8 L) | 12.9 gallons (48.8 L) |

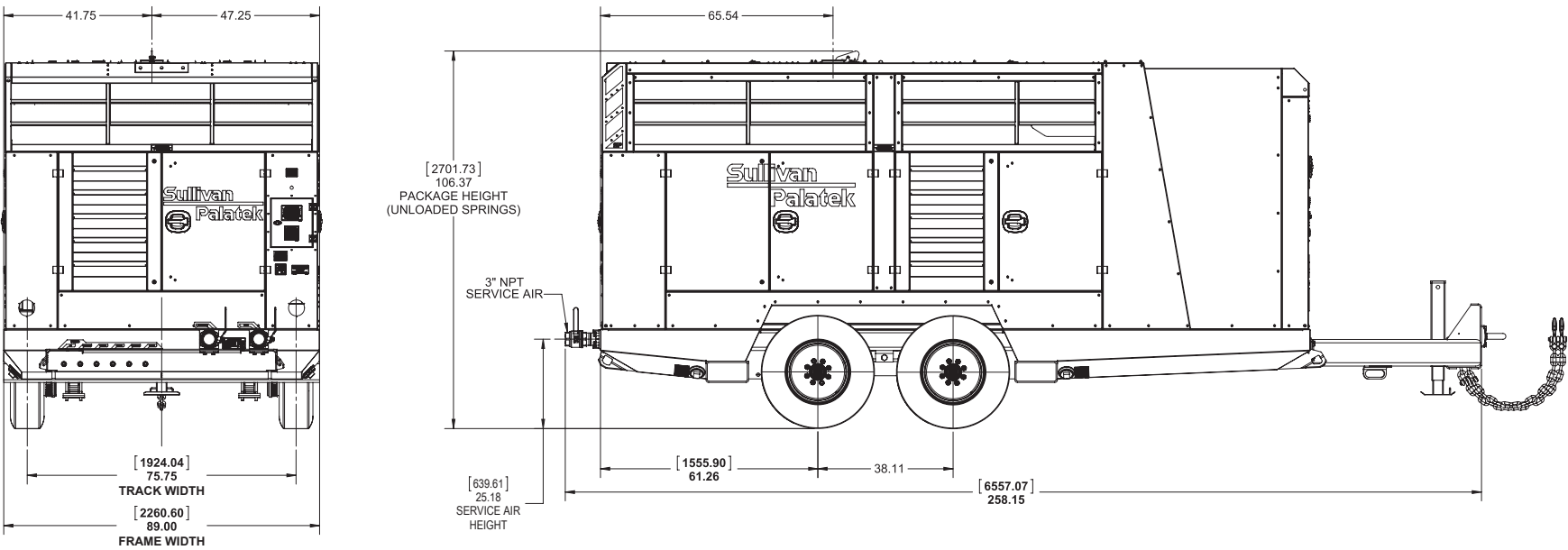


FIGURE 2-1 GA 00001_CAT (REV 01)

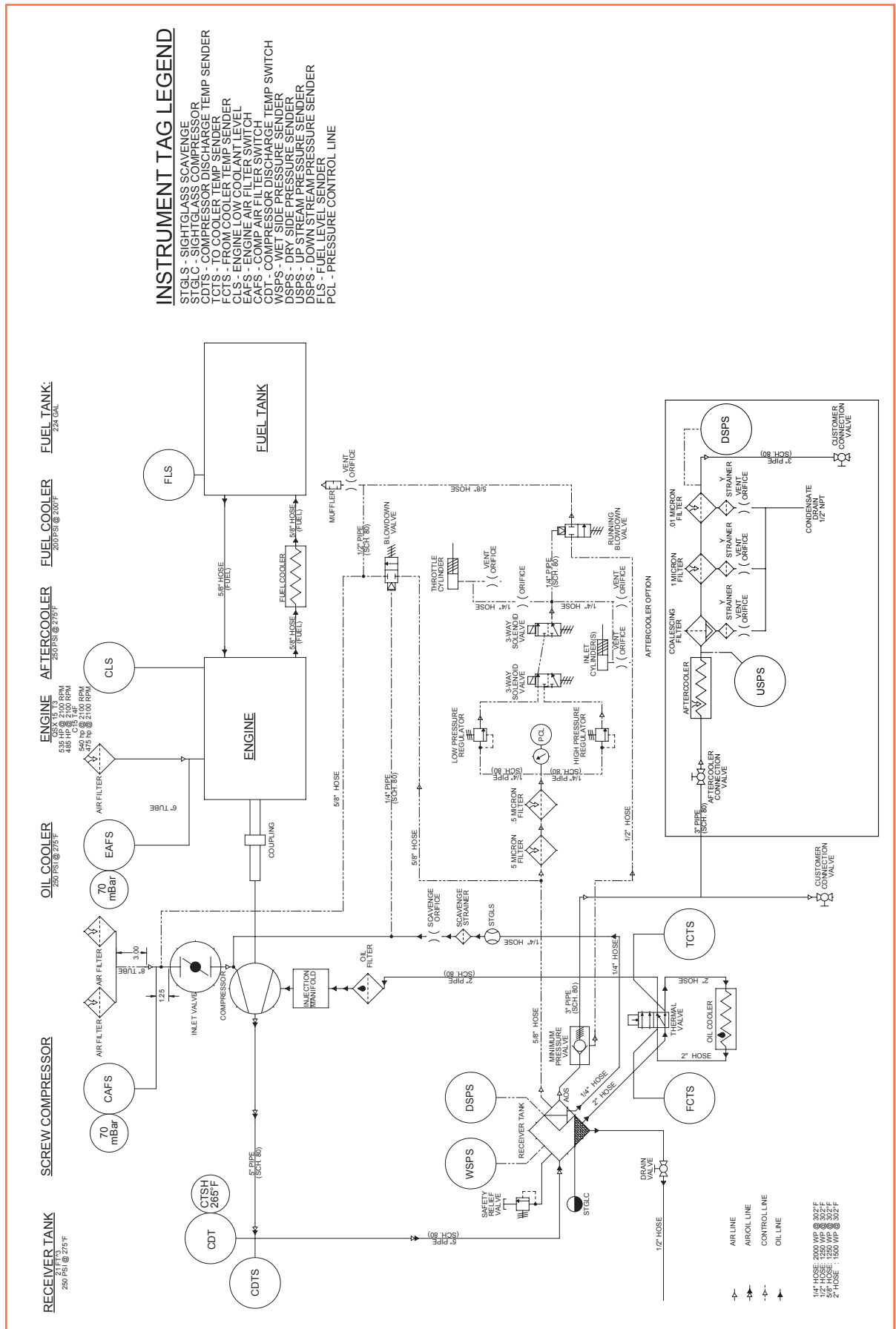


FIGURE 2-2. PID 00002 (REV 00)

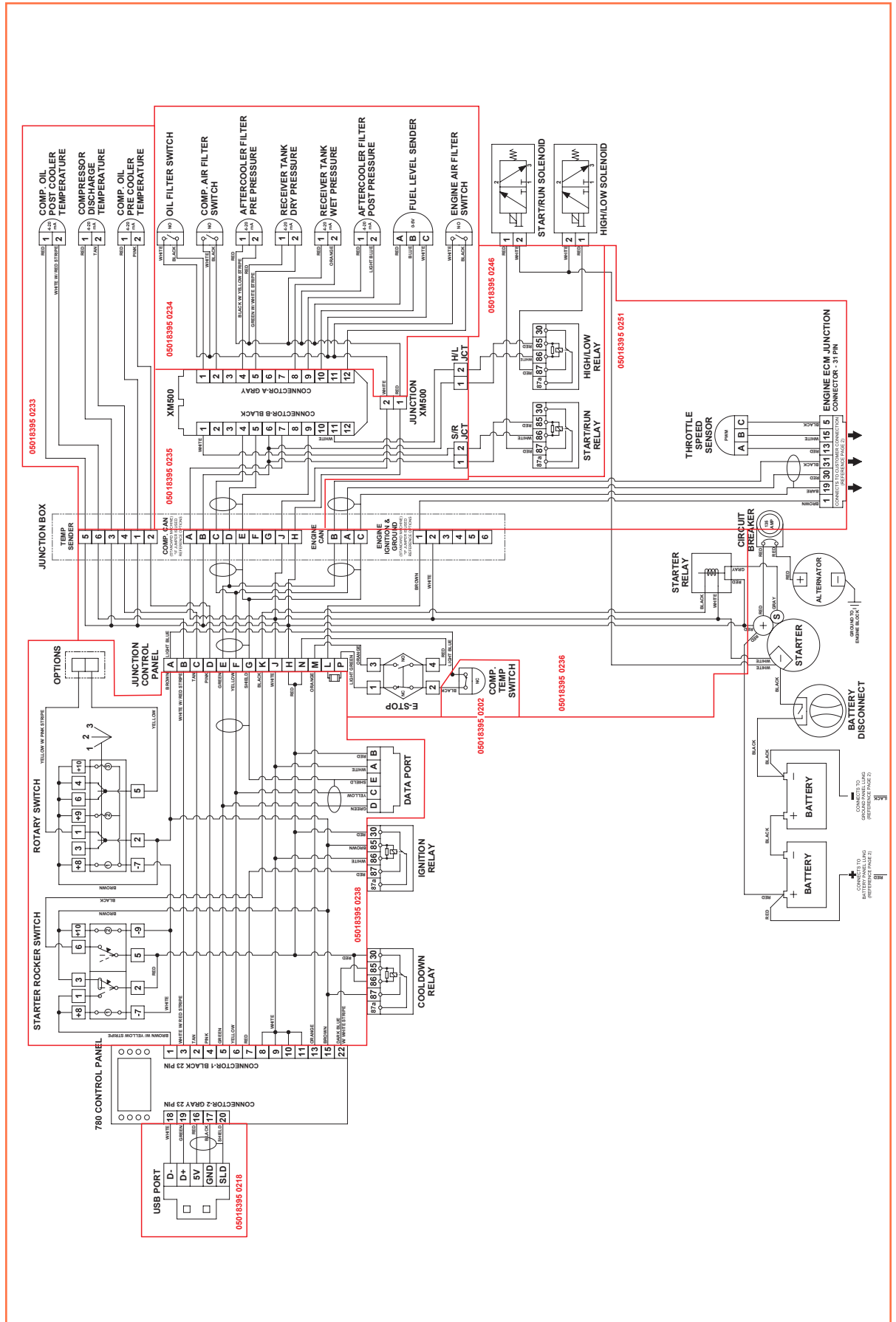


FIGURE 2-3. WD-15122 (REV 00) 1600 CAT T4F

2.5

E-STOP HARNESS SCHEMATIC

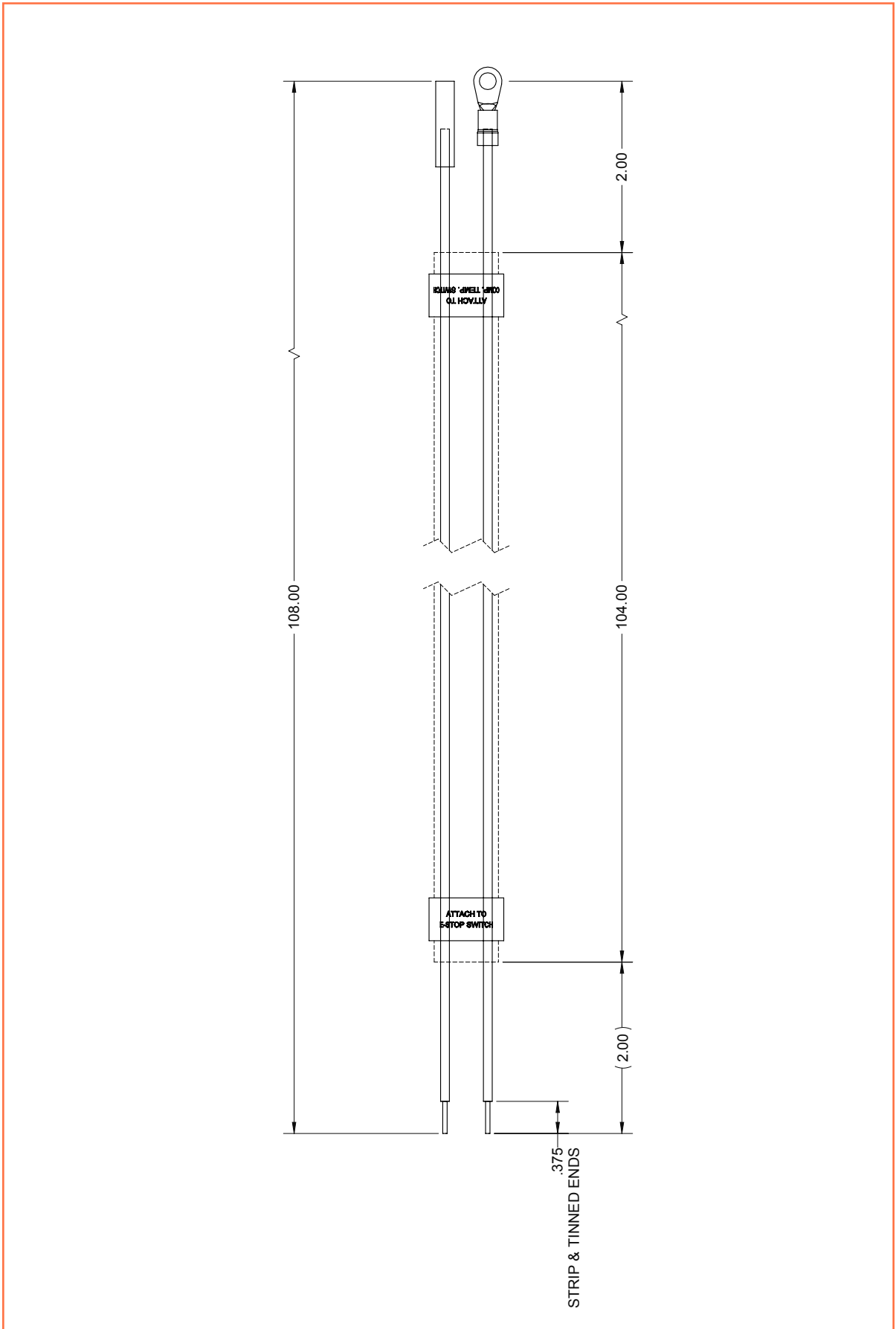


FIGURE 2-4. 05018395 0202 HARNESS, EMERGENCY STOP (REV 01)

2.6

USB PORT TO CONTROLLER HARNESS SCHEMATIC

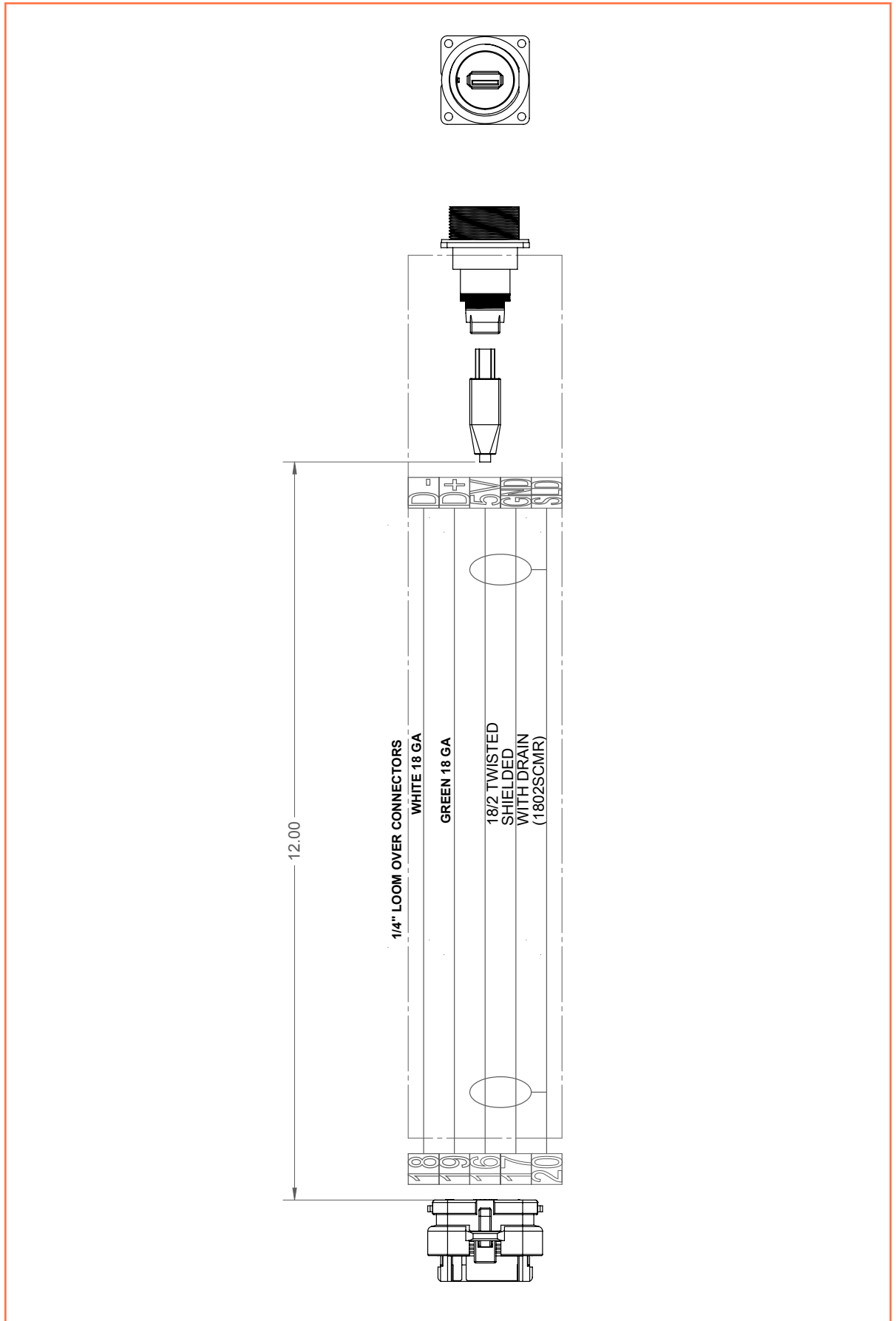


FIGURE 2-5. 05018395 0218 HARNESS,USB PORT TO 780 (REV 01)

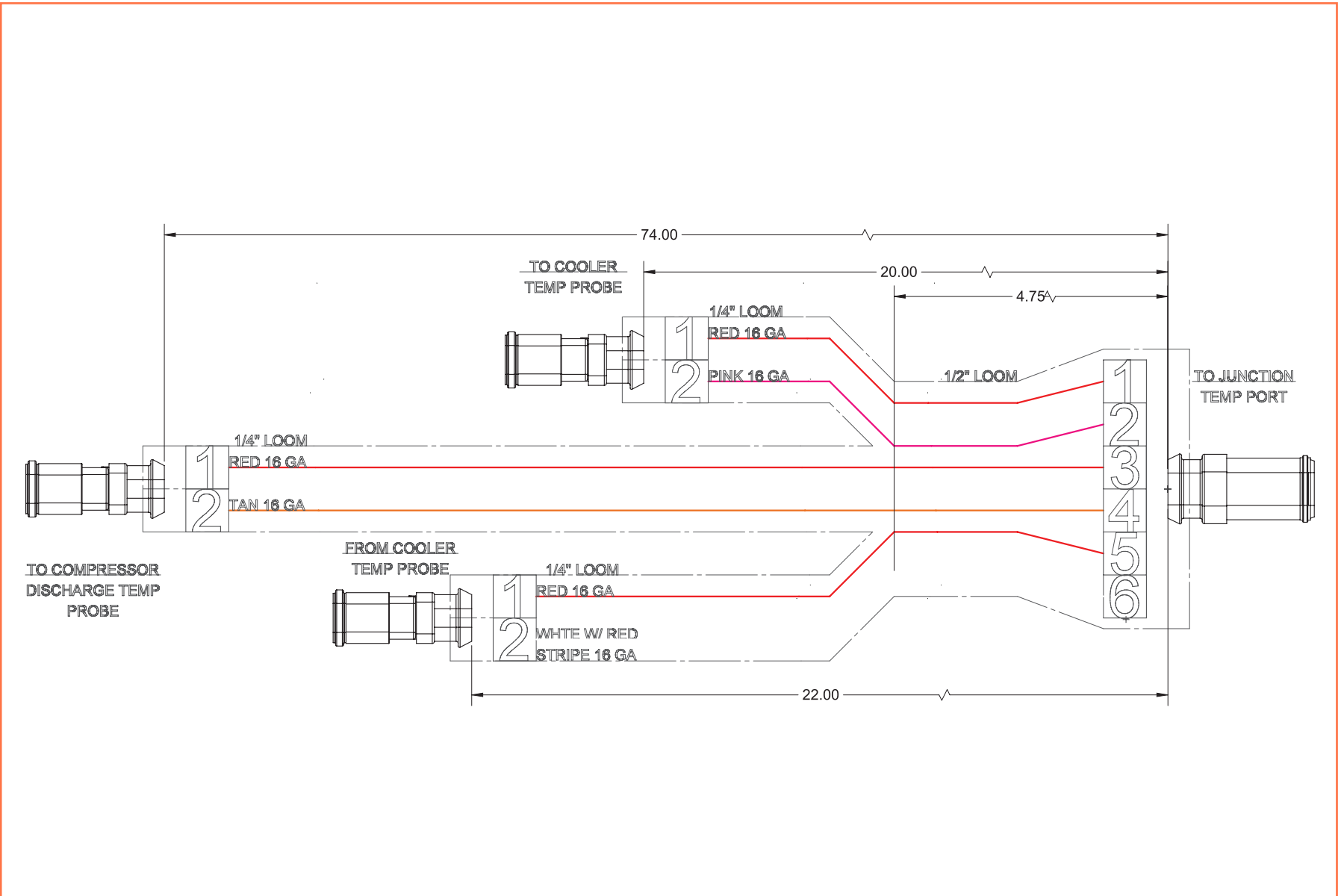


FIGURE 2-6. 05018395 0233 HARNESS, TEMP SENDER 950+ (REV 02)

2.8

XM500 TO SENDERS HARNESS SCHEMATIC

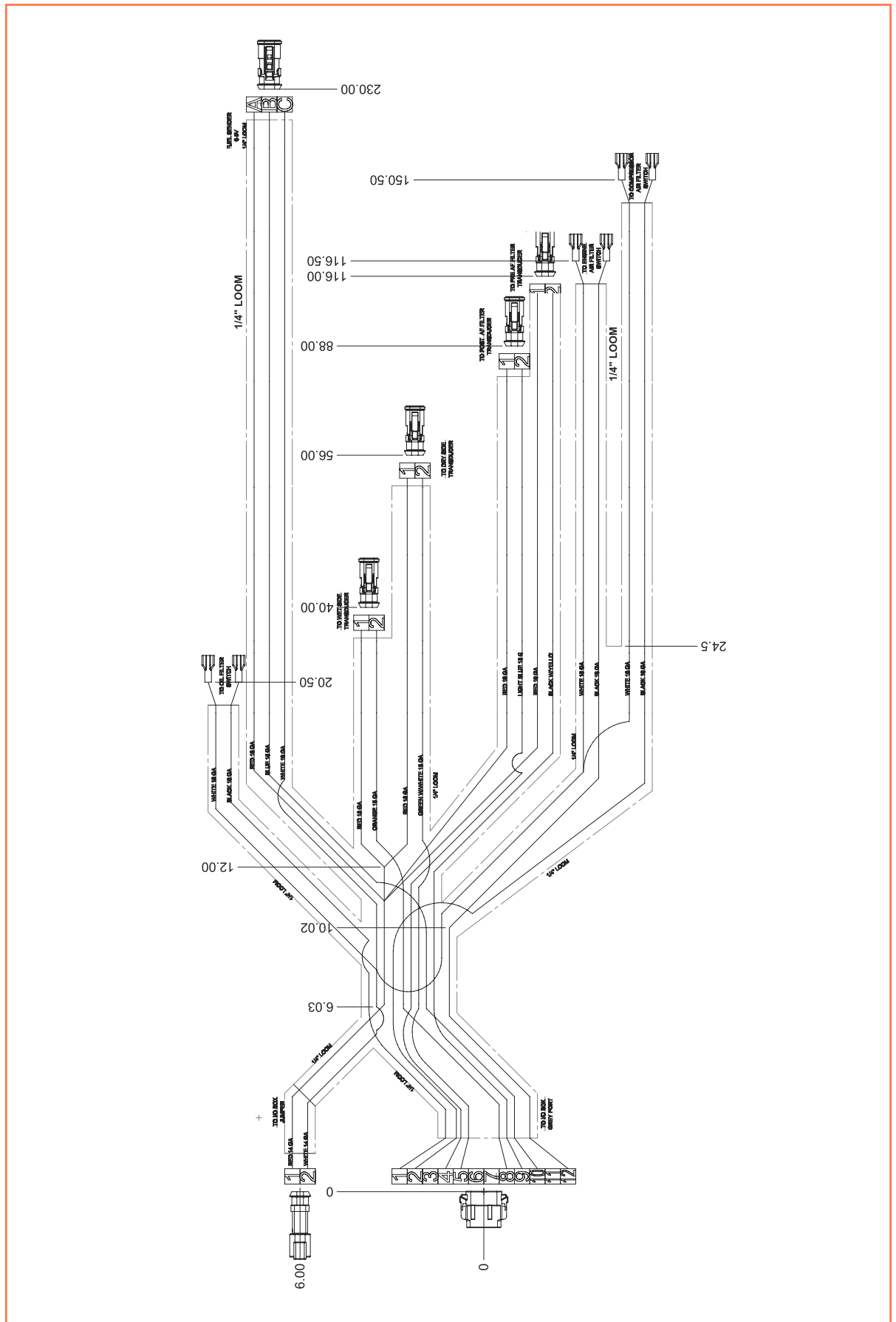


FIGURE 2-7. 05018395 0234 HARNESS, XM500 TO SENDERS (REV 05)

XM500 TO JUNCTION HARNESS SCHEMATIC

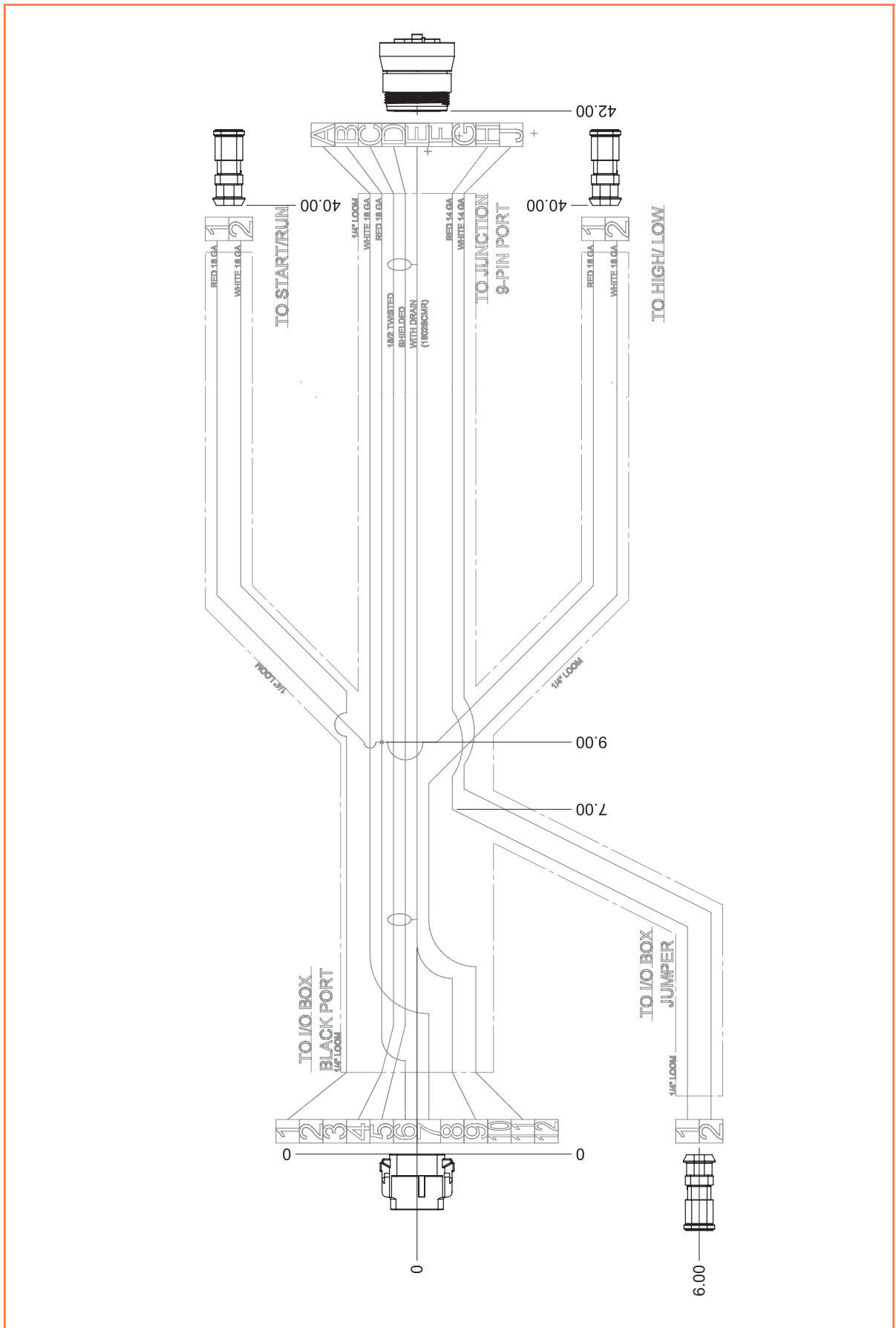


FIGURE 2-8. 05018395 0235 HARNESS, XM500 TO JUNCTION (REV 02)

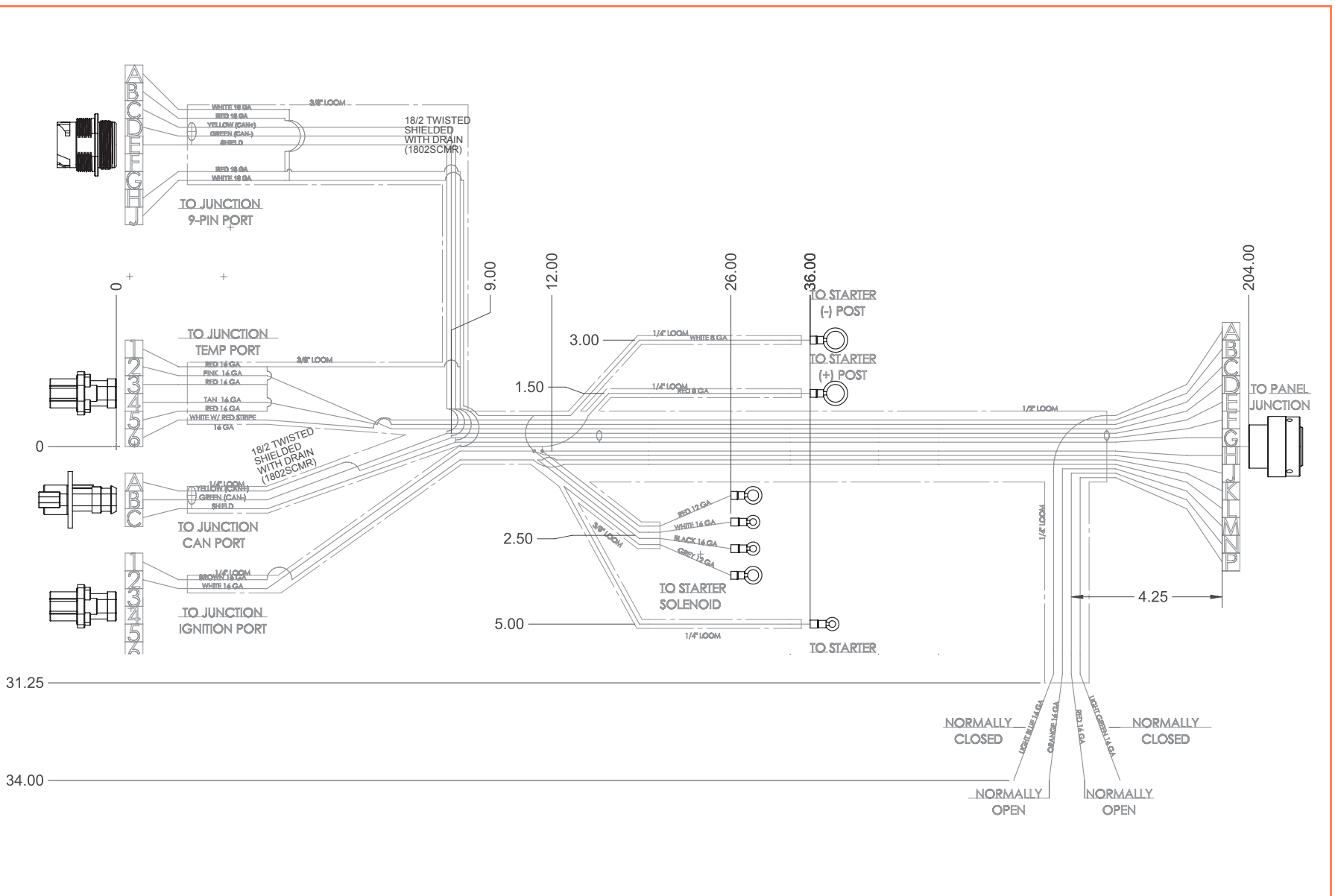


FIGURE 2-9. 05018395 0236 HARNESS, PANEL TO JUNCTION (REV 04)

2.12

XM500 OUTPUT RELAY HARNESS SCHEMATIC

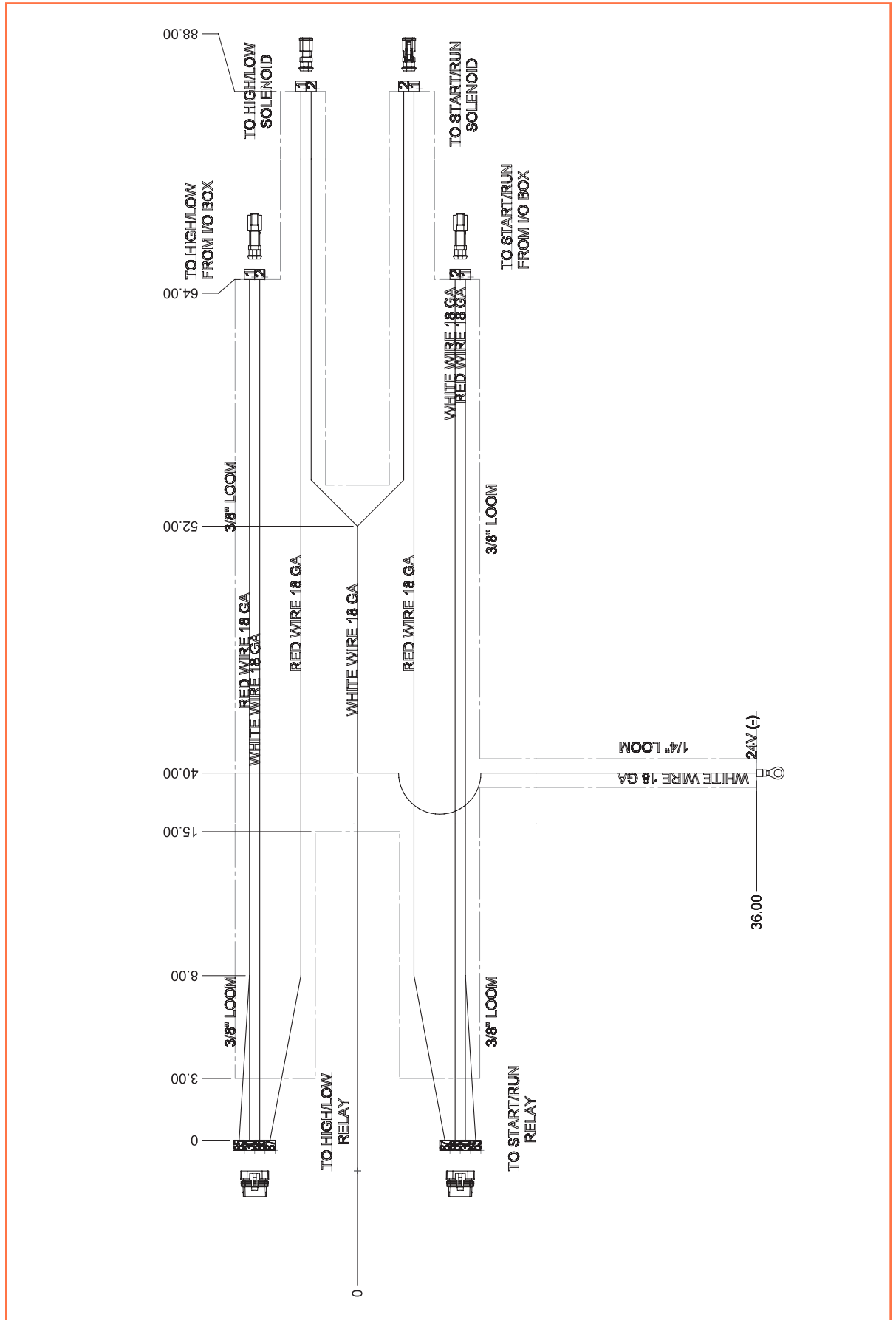


FIGURE 2-11. 05018395 0246 HARNESS, XM500 OUTPUT RELAY (REV 03)

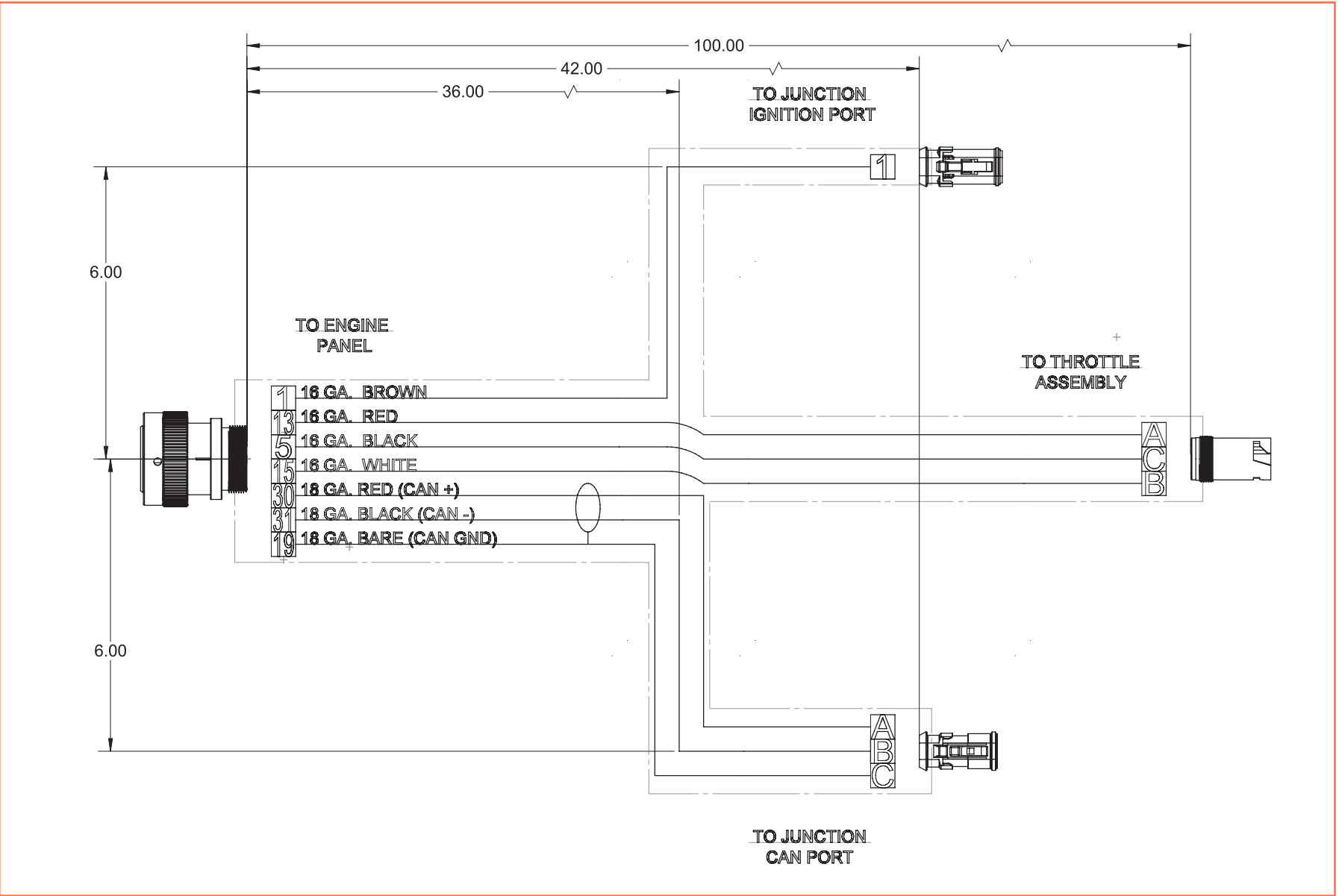


FIGURE 2-12. 05018395 0251 HARNESS, C15T4 TO JUNCTION (REV02)

OPTIONAL FAN KIT ASSEMBLY (CONTINUED)

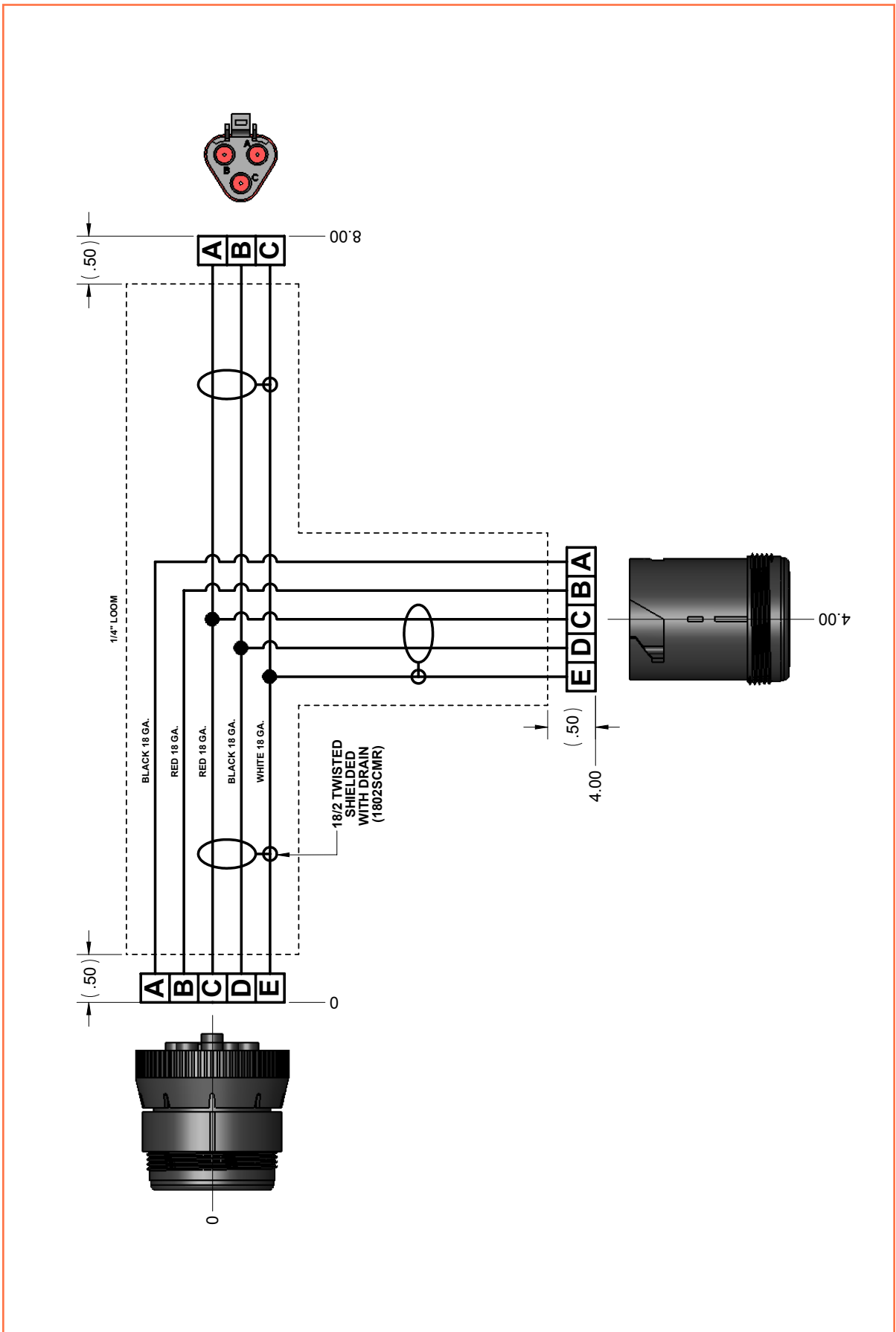


FIGURE 2-14. 05018395 0214 HARNESS, FLEX FAN CU 8.3 EXTEN (REV 00)

OPTIONAL HEATER CONTROL KIT (CONTINUED)

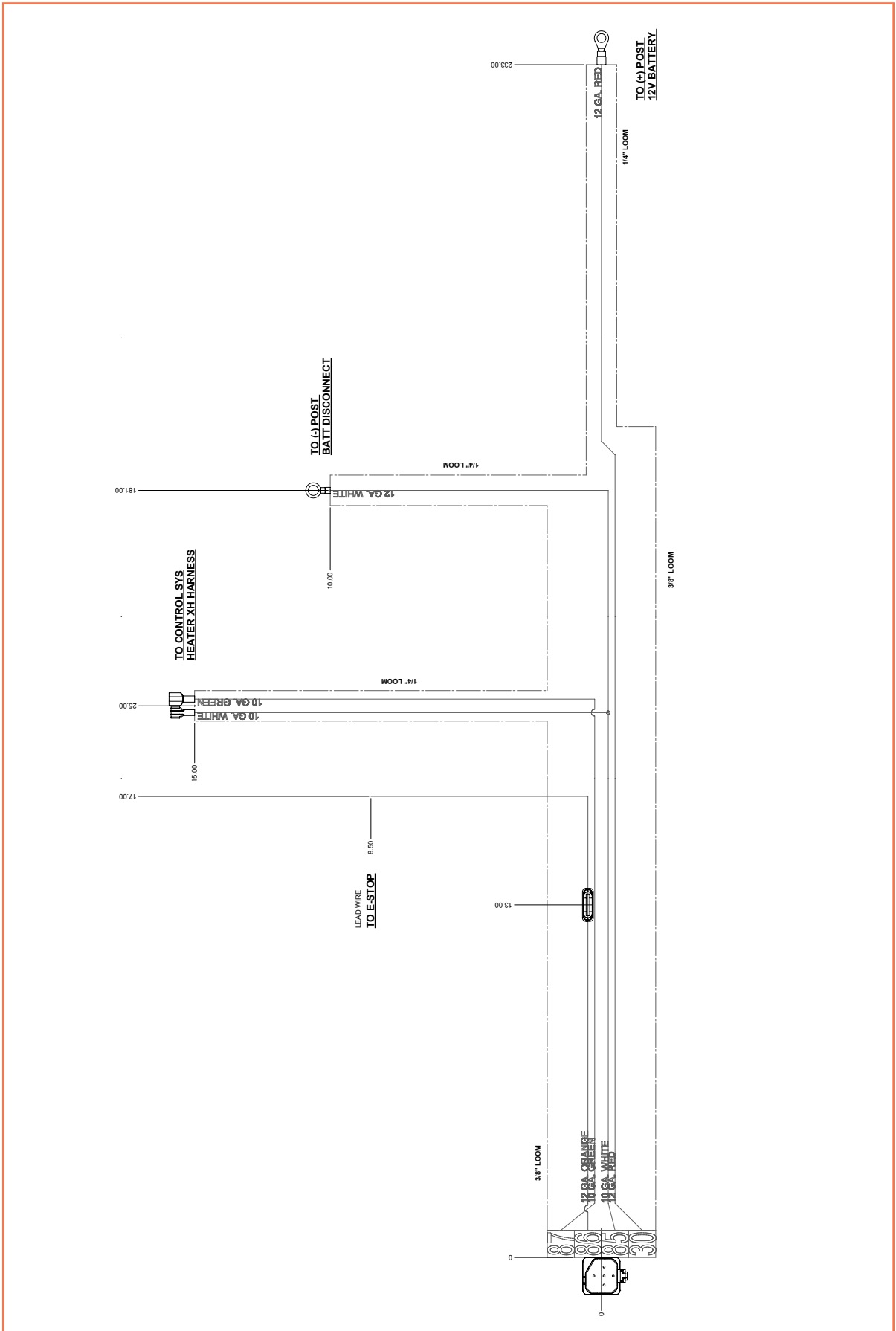
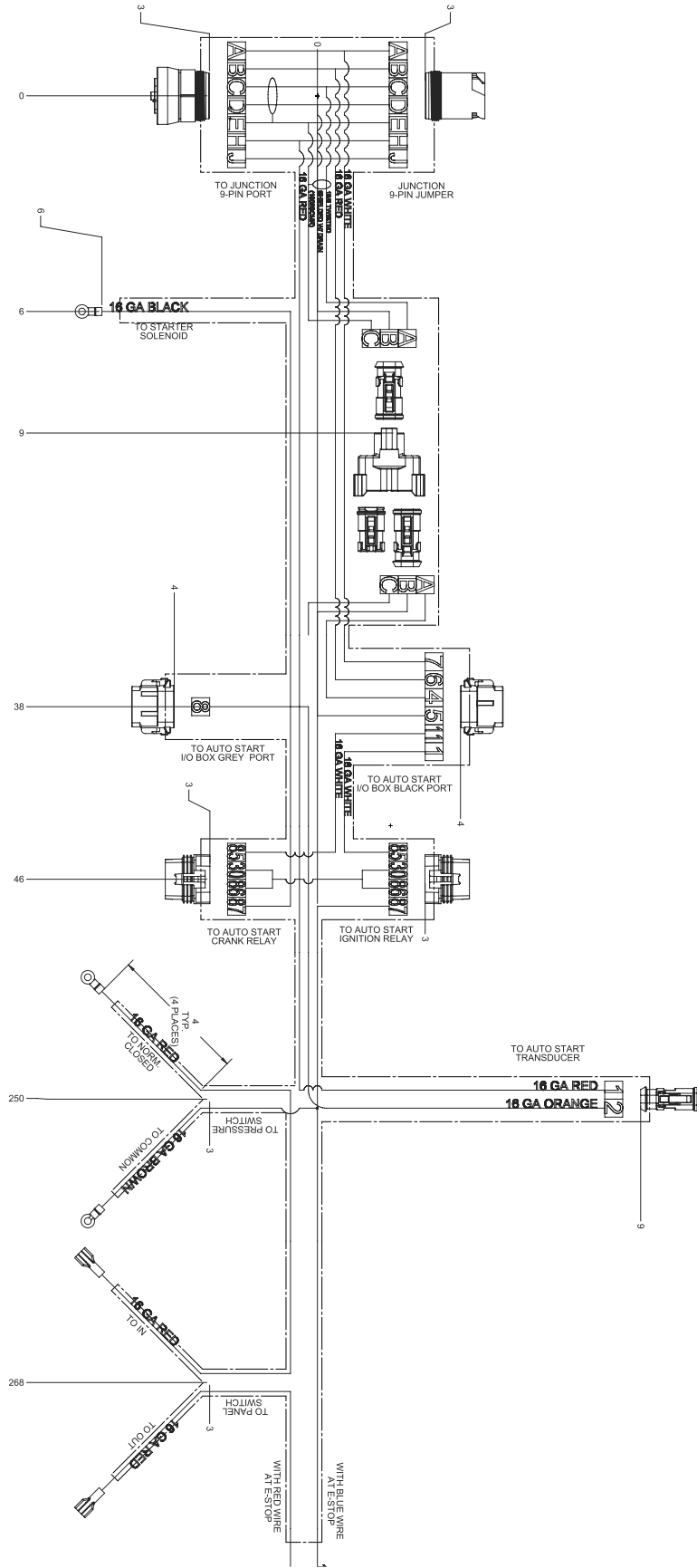


FIGURE 2-16. 05018395 0265 HARNESS, POWER 750+ (REV 00)

FIGURE 2-17. 05018395 0274 HARNESS, AUTO START 750+ (REV 04)



OPTIONAL AUTO START/STOP KIT HARNESS SCHEMATIC

3 COMPONENT DESCRIPTION

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| » Air End Assembly | 28 |
| » Discharge System | 28 |
| » Lubrication System | 29 |
| » Capacity Control System | 30 |
| » Electrical and Protective Circuit System | 30 |
| » Noise Control Systems | 31 |
| » Engine Shutdown Protection | 31 |
| » Telemetry | 31 |
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3.1 PORTABLE COMPRESSOR PACKAGE

The compressor is a single stage, oil-flooded lubricated rotary screw air compressor. The compressor package is available as a portable wheel-mounted unit, utility mounted unit, or galvanized skid-mounted unit for offshore applications. All models are enclosed in a weather-resistant acoustical enclosure.

The complete operating unit consists of a diesel engine for power, compressor assembly, air/oil separator system, cooling system for the engine and compressor oil, instrumentation, pneumatic control system, and acoustical enclosure.

3.2 ENGINE

The compressor is powered by a diesel engine. For detailed information on the engine refer to the Engine Operators Manual provided with each compressor.

3.2.1 ENGINE COOLING SYSTEM

The engine cooling system utilizes a conventional engine radiator, thermostat, water pump, and fan to maintain the engine coolant at a desired operating temperature.

3.2.2 ENGINE TO COMPRESSOR DRIVE

The compressor and engine are connected through a non-lubricated spline coupling. It consists of a drive ring registered and bolted directly to the engine flywheel and either a splined hub or a disc attached to the compressor drive shaft. Because of low starting torque, no clutch is required.

3.3 AIR END ASSEMBLY

The compressor assembly is an oil flooded, positive displacement, single stage rotary screw unit. Components include a stator housing, male and female rotors, bearings, and bearing supports. Engine power is transferred to the male rotor through a coupling and, if a gear-driven unit, through gears in the gear housing. The male rotor drives the female rotor.

3.3.1 COMPRESSION CYCLE

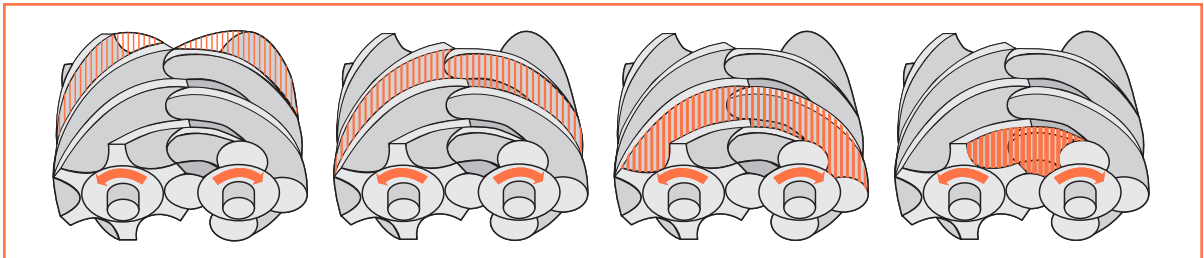


FIGURE 3-1. COMPRESSION CYCLE

Air at atmospheric pressure is drawn in through the inlet and compressed by the rotation of the rotors. During the compression cycle, oil is injected into the compressor performing three important functions:

1. Lubricate the rotating parts and bearings.
2. Provide cooling for the compressed air.
3. Seal the running clearances between the rotors.

3.4 DISCHARGE SYSTEM

3.4.1 RECEIVER/SUMP

From the compressor discharge, oil-laden air enters the receiver/sump tank above the oil level and most of the oil is separated from the air by gravity. The oil runs downward and accumulates for recirculation, while the remaining oil mist passes through the separator element. The oil separator is located in the upper portion of the receiver/sump. When air is demanded at the service line, it passes through the separator element, which provides the final stages of air/oil separation.

3.4.2 MINIMUM PRESSURE VALVE

A minimum pressure valve is provided at the service air outlet (at the top of the separator). This valve serves to maintain a minimum discharge pressure of 65 to 80 psig in operation, which is required to assure proper air/oil separation. At normal operating pressure of 90 to 150 psig, this valve is wide open, effectively removing any restriction to airflow.

3.5

LUBRICATION SYSTEM

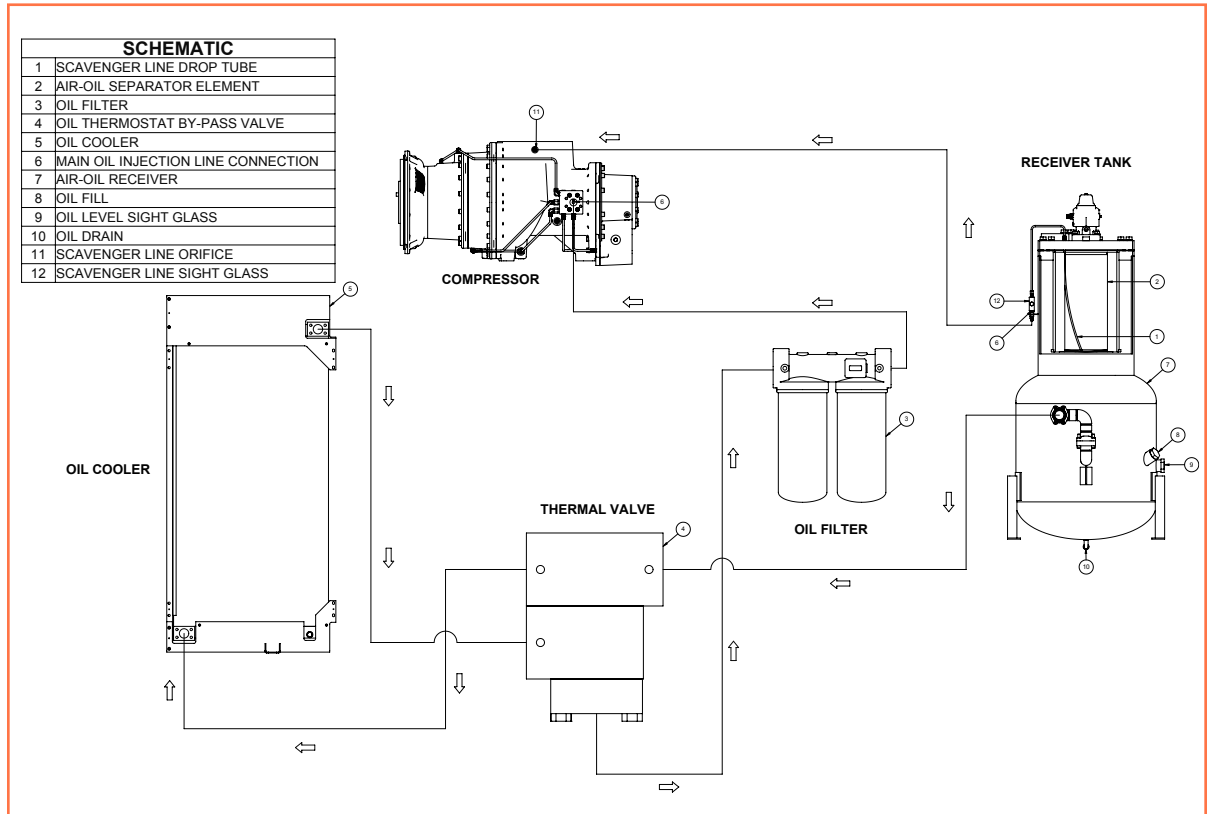


FIGURE 3-2. OD 00001 DIAGRAM, OIL 950+ (REV 00)

Oil from the compressor oil sump at compressor discharge pressure is directed through the cooling system and oil filter to a lower pressure region of the compressor stator. At the same time, oil is directed to the bearings and shaft seal of the compressor. The oil-laden air is then discharged back into the sump.

The compressor cooling system consists of an oil cooler mounted adjacent to the engine radiator. Cooling air is pushed through the cooler by the engine fan while oil is circulated through it by the receiver/sump pressure.

3.5.1 OIL RETURN LINE

The oil that is removed by the air/oil separator gravitates to the bottom of the air/oil separator and is returned through an orifice in the oil return scavenger line assembly. The assembly consists of a pickup tube, return line hose, a line strainer and a sight glass/orifice. Flow can be witnessed through the sight glass. Flow is generated via differential pressure between the high pressure sump tank and the lower pressure region of the compressor.

3.5.2 THERMAL VALVE

The thermal valve is the center of the compressor temperature regulating system and is referred to as a cold-side thermal valve. The oil circulates through the valve until the oil temperature reaches 165°F at which time the thermostat opens and introduces cool oil from the cooler, allowing the oil to maintain an injection temperature of 165°F continuously. The valve has a built-in pressure relief feature so that a pressure drop across the valve of 50 psi will cause it to open. If the cooler should become plugged the thermal valve will open regardless of temperature, thus providing lubrication to the compressor until the protective circuit shuts the machine down due to high compressor discharge temperature.

3.5.3 OIL FILTER

A full-flow canister-style oil filter is supplied to protect the compressor unit from solid contaminants. The filter has an internal bypass valve to assure adequate oil flow with cold oil or a plugged oil filter element. The filter canister can be removed with a strap wrench.

3.6

CAPACITY CONTROL SYSTEM

The control system is designed to match air supply to air demand and to prevent excessive discharge pressure when the compressor is operating but air is not being used. Control of air delivery is accomplished by inlet valve regulation, engine speed modulation along with running blowdown control. All of which are maintained by the pressure set point of the High Pressure Control Regulator Valve (set @ desired process pressure requirement – 150-160 psig) or the Low Pressure Control Regulator Valve (set @ nominal 110-120 psig) with the service valve closed. Refer to the *Plumbing & Instrumentation Diagram on page 10*.

3.6.1 INLET VALVE ASSEMBLY

The inlet valve controls the amount of air being allowed into the compressor unit and is the heart of the compressor control system. Upon start-up the inlet valve will be closed allowing only a small amount of air past the butterfly valve to slowly build pressure in the receiver tank. The machine will continue in this unloaded state with no service air available until the engine has reached operating temperature.

Once the engine has reached operating temperature the compressor can be put into the load state. In the load state the inlet valve cylinder will receive air from the controlload regulator and will start pushing the butterfly valve open allowing atmospheric air to enter the compressor. Now air will be available at the service valve for customer use. The further the butterfly valve opens, the more service air is available for use.

The loadcontrol system regulator can sense how much to open the inlet valve by reading the pressure in the receiver tank. If the pressure in the receiver is increasing, the job requires less air. If the receiver tank pressure is decreasing, the job requires more air. This is what is called “0 to 100% capacity control”.

NOTE!

The compressor can only produce its maximum rating of air flow at rated pressure (rated CFM at rated psig). If the tank pressure continues to decrease when the machine is at full speed and the inlet valve fully open, a larger capacity compressor or multiple compressors may be required for the customer's job needs.

3.6.2 BUTTERFLY VALVE

The air intake system consists of a normally closed butterfly valve used in conjunction with a pneumatic type inlet valve. During start-up the butterfly valve remains closed, which results in reduced engine load. The butterfly valve has a built-in passage that permits a small amount of air to enter the compressor. As the pressure increases the butterfly valve begins to open, admitting more air to the compressor.

3.6.3 REGULATOR VALVE (DISCHARGE PRESSURE)

The regulator valve is used to select the desired discharge pressure within the operating pressure range. Turning the regulator adjustment knob clockwise increases the unloaded pressure, and counter-clockwise reduces the unloaded pressure. Observe discharge pressure gauge on the instrument panel for compressor discharge pressure.

3.6.4 AUTOMATIC BLOWDOWN VALVE

The automatic blowdown valve relieves pressure in the system upon shutdown. It is closed when the compressor is in operation; however, at shutdown, the inlet valve closes, the unit becomes pressurized and sends a pressure signal to open the normally closed blowdown valve.

3.6.5 RUNNING BLOWDOWN VALVE

This valve functions automatically in response to the regulated control pressure. Receiving the unload signal from the regulator, the running blowdown valve is opened allowing a small quantity of pressurized sump air to be vented to atmosphere.

3.7

ELECTRICAL AND PROTECTIVE CIRCUIT SYSTEM

The compressor electrical system is a 12-volt negative ground system used on smaller-capacity (185–375 CFM) compressors and a 24-volt negative ground system used on larger-capacity (750–1800 CFM) compressors. It is equipped with a protective circuit to minimize damage. Damage could be caused by high compressor discharge temperature, high engine water temperature, or low engine oil pressure. Refer to wiring diagrams as required. The following conditions will cause automatic shutdown of the compressor:

- » Compressor discharge air temperature (CDT) approximately 265°F (129°C). A warning is shown when the temperature reaches 245°F (118°C).
- » Low engine oil pressure (EOP) dependent upon engine manufacturer's specifications.
- » High water temperature (EWT) dependent upon engine manufacturer's specifications.
- » Low Fuel warning at 10% capacity. The LOW FUEL icon will flash at 5% of capacity, At 3% the compressor will be forced to unload.

3.8 NOISE CONTROL SYSTEMS

Noise control systems incorporated in this compressor have been designed to meet the requirements of federal noise control regulations. The principal components of the noise control systems include the enclosure, engine exhaust system, and compressor intake system. The enclosure has been designed to provide the required noise reduction while maintaining a good distribution of cooling airflow to the radiator and oil cooler.

3.9 ENGINE SHUTDOWN PROTECTION

Sullivan-Palatek uses electronically controlled engines in the 185–1800 CFM line of compressors. Personnel operating and maintaining these compressors **MUST** be familiar with and understand the operation and protection features available with these engines.

WARNING! *Failure to follow the electronic control warnings and attempts to override, bypass, or ignore these warnings can lead to severe engine damage. This damage will not be covered by either the engine manufacturer's or Sullivan-Palatek's warranty.*

Electronically controlled engines have software that monitors engine parameters during operation. If the parameters exceed the normal operating threshold, the engine software will take appropriate actions to protect the engine from damage. There are two levels of action: derate and shutdown. If either of these actions are initiated, the software will also activate the yellow warning sign and red engine shutdown/diagnostic warning sign on the Sullivan-Palatek Electronic Controller (SPEC).

3.9.1 ENGINE DERATE

The first level of protection in the controller is the derate feature. The engine will derate the power output of the engine by 35% in an attempt to correct the parameters that are out of range. In almost every case, power deration will result in the engine stalling, which will protect the engine from damage.

NOTE! *The yellow warning will be lit on the SPEC screen when this occurs.*

3.9.2 ENGINE SHUTDOWN

The second level of protection in the controller is engine shutdown. If the derate feature cannot correct the unsafe parameters or the engine does not stall, the controller will shutdown engine to protect it from damage.

NOTE! *The warning and shutdown information will be lit on the SPEC when this occurs.*

If either of these protection features activate, the engine requires inspection by an authorized engine manufacturer's dealer before attempting to run the machine again.

WARNING! *Failure to inspect and correct the fault in the engine or at the point of the external sensor will result in repeated derates and shutdowns, which can and will often lead to engine damage.*

NOTE! *The engine software stores all derate and shutdown information to be reviewed by the engine manufacturer's representative. Attempts to restart the compressor without repairing the fault sensed by the protection system will be recorded in the engine software and will void the engine manufacturer's warranty.*

NOTE! *The Sullivan-Palatek warranty DOES NOT COVER the engine. The engine and its components are warranted only by the engine manufacturer.*

Operators, rental customers and anyone responsible for the operation and maintenance of this compressor **MUST** be instructed and briefed on the proper responses to control module warnings. In particular, they must be instructed to report warning instances and not attempt to restart the compressor until faults are cleared by certified personnel.

3.10 TELEMETRY

Telemetry allows remote monitoring of machine operation data in real time via GPS tracking. This is standard on all large tandem-axle compressors, and provides the means to record and transmit certain compressor and engine measurements. This data is useful for long-range troubleshooting and management.

3.11

INSTRUMENT PANEL

The instrument panel contains all the necessary controls and instrumentation for operation. It is conveniently located at the right rear of the unit, and enclosed by a lockable, hinged door. Following is an explanation of the principal controls and instruments:

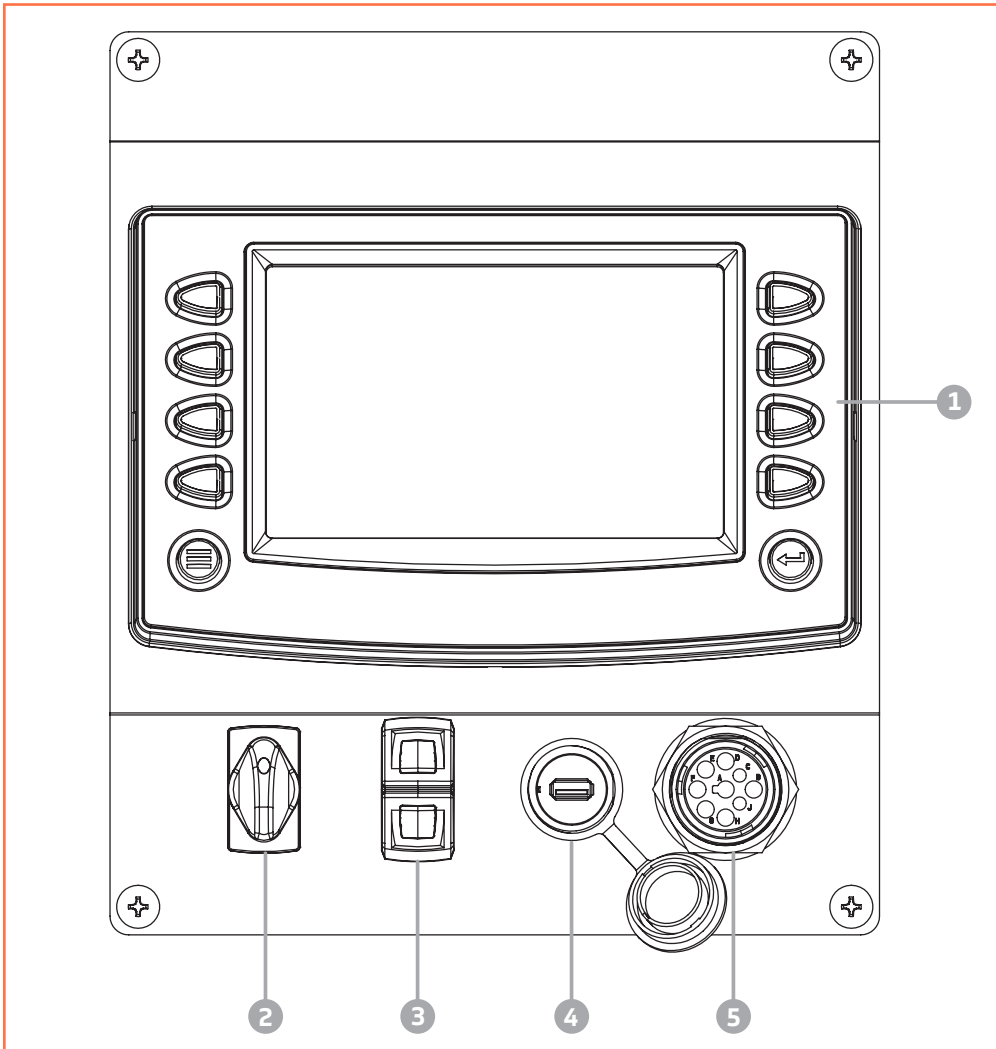


FIGURE 3-3. D1600PH INSTRUMENT PANEL

| ITEM | NAME | DESCRIPTION |
|------|---|---|
| 1 | Sullivan-Palatek Electronic Controller (SPEC) | Monitors the engine and compressor parameters, displays warning and shutdown information, and displays engine diagnostic information from the engine ECU. |
| 2 | [OPTIONAL] Auxillary Control | Used to engage optional components, such as heaters. |
| 3 | Ignition Switch | ON position electrically energizes engine starter motor solenoid. |
| 4 | USB Port | Used to acquire data files for diagnostics. |
| 5 | Diagnostic Port | Used to troubleshoot engine data. |

3.11.1 SULLIVAN-PALATEK ELECTRONIC CONTROLLER (SPEC) MODEL PV780

The SPEC monitors all critical compressor and engine parameters and provides warning and shutdown information. Parameters monitored include engine speed, engine temperature, compressor temperature, engine oil pressure, battery voltage and fuel level. The SPEC provides warning and shutdown information from high compressor temperature or low fuel level. It also has complete engine diagnostic capabilities that can read and display fault codes from the J1939 CANBUS. Multiple language options are available including English, Spanish, French, Italian and German.

NOTE!

For more indepth information on the display, including menu navigation and warning screens, please refer to the Murphy PowerView 780 Operator's Guide, part number 05018730 0225.

FACEPLATE FEATURES

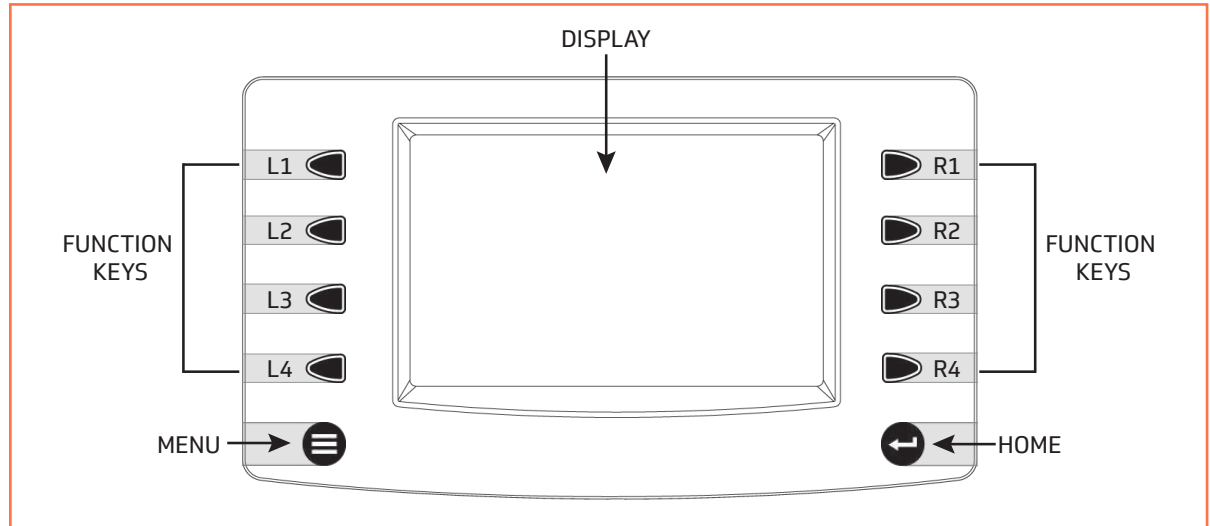


FIGURE 3-4. SPEC FACEPLATE FEATURES

NAVIGATION AND KEYPAD FUNCTIONS

The keypad on the SPEC display includes 10 tactile pushbuttons with white LED backlight. The keys on the keypad perform the following functions:

| | | |
|--|---------|--|
| | MENU | Pressing the MENU button at any time displays the main menu. |
| | L1 - L4 | The left function keys correspond to the soft key commands and allow selections to be made accordingly. |
| | R1 - R4 | The right function keys correspond to the soft key commands and allow selections to be made accordingly. |
| | HOME | Pressing the HOME button displays the Home screen. |

3.11.2 IGNITION SWITCH

When the START button is pressed on the ignition switch, the engine starter motor solenoid is electrically energized. Using the STOP button puts the machine into a mandatory cooldown state.

3.11.3 USB PORT

The USB port on the instrument panel is where a USB device can be inserted in order to update or remove diagnostic files from the SPEC's log file. This function is reserved for Service or OEM personnel only.

3.11.4 DIAGNOSTIC PORT

The diagnostic port is used by authorized personnel to obtain engine data for troubleshooting purposes.

4 TRANSPORTING AND LOCATING

TOPICS IN THIS SECTION:

| | |
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| » Preparing to Tow | 37 |
| » Towing | 37 |
| » Parking or Locating Compressor | 38 |

4.1 RECEIVING

Each compressor is operated and tested at the factory before shipment. This testing assures that the unit is operating properly and that the compressor will deliver its rated capacity. Regardless of the care taken at the factory, there is a possibility that adjustments may be altered or damage may occur during shipment. For this reason it is recommended that the unit be checked for proper operation and carefully inspected before it is put in service. The machine should be observed for any possible malfunction during the first few hours of operation.

NOTE!

Satisfactory performance of the compressor depends upon the operator's knowledge of the controls, instruments, and recommended operating procedures. Consequently, the preceding sections of this manual and also the entire Engine Operator's Manual should be read and understood before attempting to start and operate this machine.

4.2 LIFTING

- » This compressor is provided with a lifting bail for routine lifting and loading onto trucks, oil platforms, or similar equipment. It is not intended for extended airlift such as via helicopter.
- » Prior to lifting inspect the lifting bail and points of attachment for the following: cracked welds; cracked, bent, corroded or degraded members; loose bolts or nuts. **Do not lift machine if any of these items are found to be defective.**
- » Make sure entire lifting, rigging, and supporting structure is in good condition and has a rated capacity of at least the net weight of the compressor plus an additional 10% allowance for the weight of snow, ice, mud, or stored tools and equipment. If you are unsure of the weight, then weigh the compressor before lifting.
- » Make sure lifting hook has a functional safety latch, or equivalent, and is fully engaged before lifting compressor from the ground.
- » Support the compressor by using slings under the main frame with appropriate spreader bars when airlifting the machine. Lift only in full compliance with OSHA Standards 29 CFR 1910 subpart N, and other applicable regulations.
- » Do not attempt to lift in high winds.
- » Keep all personnel out from under and away from the compressor when suspended.
- » Lift compressor slowly and smoothly, without jerking. Tilting movements must be limited and rotation must be prevented.
- » Lift compressor no higher than necessary, use guidelines and have spotters properly located.
- » Do not leave suspended compressor unattended.
- » Set compressor down only on level surfaces capable of supporting at least its net weight plus an additional 10% allowance for the weight of snow, ice, mud, or stored tools and equipment.
- » If the compressor is provided with parking brakes, make sure they are set; and always block or chock both sides of all running wheels plus drawbar stabilizer leg before disengaging the lifting hook.

4.3 DRAWBARS

WARNING!

Proper alignment and installation of mounting hardware is essential when installing the drawbars and actuators. Check nut threads and start attachment bolt by hand to prevent cross-threading. Failure to comply with this warning may cause property damage and serious bodily harm or death. Maintain torque within recommended ranges.

4.3.1 RECOMMENDED TORQUE RANGES FOR DRAWBARS

| APPLICATION | SAE GRADE SCREW | TORQUE (LB-FT) DRY | TORQUE (LB-FT) LUBE |
|-------------|-----------------|--------------------|---------------------|
| DRAWBAR | 5/8 UNC G8 | 225 | 175 |
| DRAWBAR | 3/4 UNC G8 | 400 | 315 |
| DRAWBAR | 7/8 UNC G8 | 640 | 510 |

4.4

PREPARING TO TOW

- » Damaged or worn towing components can result in separation of the compressor from the towing vehicle during towing. Inspect all towing components of both the compressor and towing vehicle for cracks, excessive wear or damage. Check for loose or damaged bolts, nuts or other fasteners. Replace or repair any damaged or worn parts before towing the compressor.
- » The towing vehicle and its coupling device and points of attachment must be rated for towing the wet weight of the air compressor and the weight of stored tools, hose and other equipment plus parasitic accumulation such as mud, snow and ice.
- » Always back the towing vehicle to the compressor and position it for coupling the compressor.
- » Use a lifting device such as a jack or chain hoist to lift or lower unit to avoid injury to yourself or others. Do not attempt to raise or lower drawbar by hand if the weight is more than can be safely handled.
- » Avoid pinch and crushing injury. Keep hands and fingers clear of the coupling device and all other pinch points. Keep feet clear of drawbar in case it should slip.
- » The coupling device must be fully engaged, closed, locked and the safety latches are engaged.
- » The towing restraint chains must be attached to the tow vehicle to support the drawbar in the event of accidental uncoupling. Cross chains under front of drawbar before passing them through points of attachment on towing vehicle. Pass each towing restraint chain through its point of attachment on the towing vehicle. Hook each chain to by passing the grab hook over, not through, a link.
- » The coupling device must be free to move throughout the full range of travel while towing. Verify that other components, wires, chains and vehicle attachments do not interfere with or restrict motion of any part of the compressor.
- » Make sure chain length, and if provided, brake and electrical interconnections have sufficient slack to prevent strain when turning and maneuvering. All chains and connections must be supported so they cannot drag or rub on road, terrain, or towing vehicle surfaces. Dragging or rubbing of this equipment will cause wear resulting in damage, and render this equipment inoperative.
- » Fully retract front stabilizer screw jack. If a retractable caster wheel is provided, pull the lock pin, raise and fold the caster wheel, then make sure pin is re-engaged to secure caster wheel in full up and locked position with the wheel horizontal.
- » Tires must be in good condition, the correct size and load range, and be inflated to the specified pressures. Do not change tire size or type.
- » Wheel lug nuts must be tightened to the specified torque.
- » If provided, make sure all stop, tail, directional, and clearance lights are operating properly and that lenses are clean and unbroken. Ensure that all reflectors and reflecting surfaces on the compressor are clean and functional.
- » Make sure air delivery hoses are disconnected or fully retracted and secured on hose reels, if provided.
- » Make sure all access doors and toolbox covers are closed and latched. If the compressor is large enough to hold a man, make sure all personnel are out before closing and latching access doors.
- » Make sure parking brakes on towing vehicle are set and that wheels are chocked or blocked before releasing the compressor parking brakes, if provided.
- » Before beginning to tow the compressor, test brake operation, including breakaway switch operation if provided.

4.5

TOWING

WARNING!

Maintain proper torque on wheel lug nuts:

SINGLE AXLE: 85 to 95 LB-FT

TWO AND THREE AXLE: 65 to 75 LB-FT

Failure to maintain lug tightness may result in a wheel loosening and leaving the compressor and causing injury or death or property damage.

- » Non-braked compressors must be towed by a vehicle having a net weight at least 2 times higher than the total weight of the towed compressor ready for use.
- » Observe and follow all local, state, and federal traffic laws. Note and adhere to speed limits and minimum highway speed.

- » Do not exceed maximum towing speeds. Reduce speed accordingly, as dictated by posted signs, weather, road, or terrain conditions.
- » Remember that portable air compressors may approach or exceed the weight of the towing vehicle. Maintain increased stopping distance accordingly.
- » Grades in excess of 15° (27%) or any grade that would over-extend the towing or braking ability of the towing vehicle should be avoided.
- » When towing the compressor, avoid potholes, rocks, rough terrain, obstructions and soft shoulders. Damage to the undercarriage and suspension can result.
- » Do not permit any person to ride in or on the compressor while being towed. Serious injury can result.
- » Make sure the area behind and under the compressor is clear of all persons, animals and obstructions prior to backing.
- » Do not permit anyone to stand or ride on the drawbar, or to stand or walk between the compressor and the towing vehicle. Serious injury or death can result.

4.5.1 MAXIMUM RECOMMENDED TOWING SPEED ON SMOOTH, DRY ROADS

Single and two axle compressors: 55mph (89kmh)

WARNING!

Failure to comply with maximum towing speed may cause property damage and serious bodily injury or death.

4.6

PARKING OR LOCATING COMPRESSOR

- » Park or locate compressor on level ground or across grade.
- » Make sure compressor is parked or located on a firm surface that can support its weight.
- » Park or locate compressor to cause the prevailing wind to direct the exhaust fumes and radiator heat away from the compressor air inlet openings and to prevent ingestion of dust and debris from the work site.
- » Set parking brakes and disconnect breakaway switch cable and all other interconnecting electrical and break connections, if provided.
- » Block or chock both sides of all wheels.
- » Block or chock both sides of drawbar stabilizer leg or jack.
- » Unhook chains and remove them from the points of attachment on the towing vehicle, then hook chains to each other on drawbar or wrap chains around the drawbar in order to keep them off the ground.
- » If provided, lower front screw jack and rear stabilizer legs. Make sure the ground is firm and capable of supporting the weight of the compressor.
- » If the compressor is provided with a swivel caster wheel, pull pin and lower caster wheel, then make sure pin is re-engaged to secure caster wheel in the full-down and locked position.
- » Disconnect coupling device, keeping hands and fingers clear of all pinch points. Do not attempt to lift the drawbar of portable compressors by hand if the weight is more than you can safely handle - usually weights in excess of 50 pounds. Use a lifting device such as a jack or chain hoist to lift the drawbar to avoid injury to yourself or others.
- » Keep feet clear of drawbar at all times to avoid crushing accidents in case it should slip from your hands or otherwise fall to the ground.

NOTE!

These guidelines also apply for locating and securing non-towed compressors (skid mounted and utility models). Obviously, reference to towing may not apply.

5 OPERATION

TOPICS IN THIS SECTION:

| | |
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| » Jump-Starting Battery | 43 |

5.1 GENERAL OPERATING SAFETY

- » Allow at least ten feet of unobstructed area in front of cooling air inlets and outlets to ensure good airflow.
- » If compressor is connected to a common header with one or more compressors, a check valve must be provided between each compressor and header.
- » Check instruments periodically during operation. If readings are abnormal, refer to *Chapter 7 TROUBLESHOOTING* on page 53.
- » Make sure that the correct type and viscosity of lubricating oils and fuel are used, especially in extreme ambient temperatures.
- » Replace any faulty gauge immediately.
- » Keep batteries fully charged and properly maintained.

5.2 PREPARING FOR INITIAL START-UP

1. Inspect the compressor, engine, and other assemblies for damage or loose connections which might have occurred during shipment. Detect and repair leaks immediately.
2. Check the engine's crankcase oil level. If required, add oil as recommended in the Engine Manual.
3. Check the radiator coolant level. Also, if the machine will be exposed to sub-freezing temperatures, check the specific gravity to ascertain the freezing point of the coolant.
4. Fill the fuel tank with fuel recommended in the Engine Manual. Do not use unapproved containers, e.g. buckets, bottles, or jars. Use fuel storage containers and approved dispensers.

CAUTION!

Never add gasoline to diesel fuel tank - serious damage to the engine will result.

5. Check Diesel Exhaust Fluid (DEF) level. If necessary fill with DEF meeting ISO22241 standard.
6. Check battery posts and cable clamps to ensure they are properly connected.

5.3 NORMAL STARTING

1. Close service valves.
2. Turn on Battery Disconnect Switch, located at the rear of the streetside of the unit, below the oil filter manifold. (Figure 5-1).
3. Press the top of the ignition switch to ON position (Figure 5-2).
4. Press again and hold the top of the ignition switch. This will engage the starter and the engine will turn over. Release the switch when the engine starts.
5. Before the controller will allow the machine to be loaded the engine water temperature and the compressor discharge temperature must reach 100°F with 20 psi sump tank pressure.

CAUTION!

If the engine stops, do not attempt to restart with the oil receiver under pressure.

5.4 LOADING

1. Load the compressor by pressing the top right (R1) button on the SPEC PV780 PowerView Controller interface, located on the instrument panel.
2. The unit defaults to Low Pressure. To select High Pressure, press the R2 button, located second from the top on the right side.

5.5 UNLOADING

1. To Unload, press the R1 button on the controller. This will automatically return the compressor to the UNLOADED state and the engine will throttle down and the inlet valve will close.

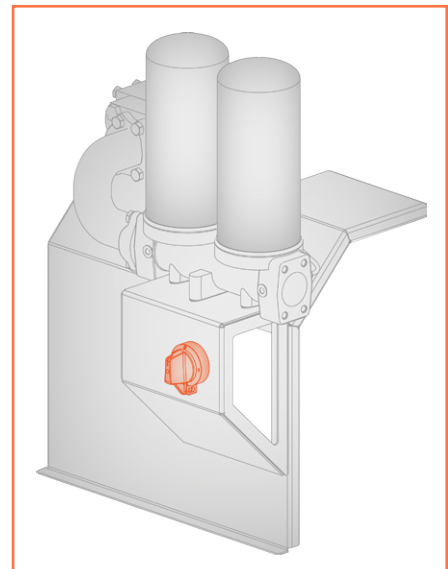


FIGURE 5-1. BATTERY DISCONNECT SWITCH



FIGURE 5-2. IGNITION SWITCH ON INSTRUMENT PANEL

5.6 NORMAL STOPPING

1. After the unit is unloaded, press the ignition switch to OFF.
2. This will put the machine into a mandatory 120-second cooldown state. If, after 120 seconds the DPF intake temperature is above 752°—due to entering a regeneration process—the machine will run until the DPF intake temperature cools down below 752°F, and then will shut off automatically.

WARNING! *DO NOT STOP THE MACHINE during this process. Damage to the engine may result.*

3. If continued use of the machine is required before the timer expires, return the ignition switch to the ON position. The display will revert back to the Home screen.
4. After the engine has shut down, **wait at least 2 minutes** before turning off the Battery Disconnect Switch. This is required by engine manufacturers to allow the engine to properly shut down the engine ECM(s).

NOTE! *For more detailed information on the display, including menu navigation and warning screens, please refer to the Murphy PowerView 780 Operator's Guide, part number 05018730 0225.*

5.7 EMERGENCY STOP

Press the E-stop button.

5.8 LOW FUEL/ADDING FUEL

When the fuel level reaches 10% of capacity, a warning screen on the display will appear. At 5% of capacity the LOW FUEL icon on the display begins to flash. At 3% capacity the compressor is forced to unload.

The compressor will need to be shut down in order to add fuel. The following steps will need to be completed before attempting to restart the engine:

1. Follow normal stopping procedures in *5.6 Normal Stopping*.
2. Fill fuel tank with Ultra Low Sulfur Diesel fuel only.
3. Press the ignition switch to ON.
4. Restart the engine. Follow procedures in *5.3 Normal Starting*.

5.9 LOW DEF/ADDING DEF

When the Diesel Exhaust Fluid (DEF) level reaches 12.5% of capacity, a flashing red warning icon will appear on the display. At 7.5% of capacity the engine will derate 37.5%, and multiple engine warnings will occur. At 3% capacity the compressor will go to idle. When the DEF tank is empty the DEF symbol will flash red and the engine will remain at idle.

The compressor will need to be shut down in order to add DEF. The following steps will need to be completed before attempting to restart the engine:

1. Follow normal stopping procedures in *5.6 Normal Stopping*.
2. Fill DEF tank with DEF meeting ISO22241 standard. Take care not to contaminate tank with dirt, debris or diesel fuel.
3. Close the access panel door completely. If left open, the DEF tank will overheat.
4. Press the ignition switch to ON.
5. Restart the engine. Follow procedures in *5.3 Normal Starting*.

5.10 OPERATING UNDER EXTREME CONDITIONS

Make sure that the correct type and viscosity of lubricating oils and fuel are used, especially in extreme ambient temperatures.

5.10.1 COLD WEATHER OPERATION

- » Use the correct coolant anti-freeze solution for the lowest possible temperature expected.
- » When operating the compressor at ambient temperatures below 20°F, use lubricants suited for these conditions. Refer to 6.3 *Compressor Lubrication on page 47* for lubricating oil specifications.
- » Optional starting aids and component pre-starting warming devices are available for some models for cold weather starting.

WARNING! *Do not inject ether starting fluid directly into air intake.*

5.10.2 HOT WEATHER OPERATION

- » Keep the engine cooling system filled with clean coolant.
- » Check the coolant level daily or before each shift.
- » Keep the outside of the radiator and oil cooler clean.
- » Locate the unit in a well-ventilated area.
- » When operating in humid conditions, drain condensate from compressor oil more frequently.

5.10.3 DUSTY OR SANDY AREAS

- » When possible, wet down the area surrounding the operating site to keep dust and blowing sand to a minimum.
- » Inspect air filters before each operating shift or daily.
- » Keep radiator and oil cooler clean. Check daily and wash or blow clean as needed.

WARNING! *Check the compressor sump oil level only when the compressor is not operating and system is completely relieved of pressure. Open pressure relief valve to ensure relief of system air pressure when performing maintenance on compressor air/oil system. Failure to comply with this warning may cause property damage and serious bodily harm or death.*

5.11 PNEUMATIC TOOLS APPLICATION

WARNING! *Compressed air can be dangerous. Serious injury or death can result from the improper selection, use or application of tools and attachments to this compressor.*

WARNING! *Never inject compressed air into a bodily orifice.*

WARNING! *Never direct compressed air at or toward a person or animal.*

WARNING! *Do not breathe air produced by a portable air compressor.*

- » Install an appropriate flow-limiting valve between the compressor service air outlet and the shut-off (throttle) valve when an air hose exceeding 0.5-inch inside diameter is to be connected to the shut-off (throttle) valve. This is to reduce pressure in case of hose or connection failure, per OSHA Standard 29 CFR 1926.302 (as) (7).
- » When a hose will be used to supply a manifold, install an appropriate flow-limiting valve between the manifold and each air hose exceeding 0.5-inch inside diameter that is to be connected to the manifold. This will reduce pressure in case of hose failure.
- » Provide an appropriate flow-limiting valve for each additional 75 feet of hose in runs of air hose exceeding 0.5-inch inside diameter to reduce pressure in case of hose failure.
- » Flow limiting valves are listed by pipe size and rated CFM. Select appropriate valves accordingly.
- » Do not exceed manufacturer's rated safe operating pressures for these items.

- » Secure all hose connections by wire, chain, or other suitable retaining devices to prevent tools or hose ends from being accidentally disconnected. Unrestrained disconnected hoses can flail around and cause injury or damage.
- » Vent and release all internal pressure prior to opening any line, fitting, hose, valve, drain plug or connection. This includes components such as filters, line oilers and optional airline anti-icing systems.

WARNING! *Serious injury can result from the direct discharge of compressed air. Do not allow personnel to be in line or front of the discharge opening of the service valve, hoses or tools or other points of compressed air discharge.*

WARNING! *Serious injury or death may result from horseplay with air hoses and compressed air. HORSEPLAY - DO NOT DO IT, DO NOT ALLOW IT!*

5.12 JUMP-STARTING BATTERY

Always wear an acid-resistant apron, face shield with goggles, and gloves when working with batteries!

Batteries may contain hydrogen gas which is explosive and flammable! Keep flames, sparks and any other source of ignition away. Batteries also contain acid which is corrosive and poisonous. DO NOT allow battery acid to contact eyes, skin, or fabrics. Serious personal injury or property damage could result! Flush any contacted areas thoroughly with water immediately and seek medical attention.

1. Make sure both compressor and starting vehicle have the ignition "OFF" before connecting the jumper cables.
 2. **Remove all vent caps from the battery or batteries in the compressor. Do not permit dirt or foreign matter to enter the open cells.
 3. **Check fluid level. If low, bring to a proper level before attempting to jump-start.
 4. Attempt jump-starting from another vehicle or piece of equipment with a negative ground electrical system and with the same voltage and battery size as the battery or batteries supplied with the compressor.
-

WARNING! *Do not attempt to jump-start using motor generator sets, welders, or other sources of DC power. Serious damage may result.*

5. Bring the starting vehicle beside the compressor, but do not permit metal-to-metal contact between the compressor and the starting vehicle. Set the parking brakes of the compressor (if provided) and the starting vehicle, or chock or block both sides of all wheels.
 6. Place the starting vehicle in neutral or park, turn off nonessential accessory electrical loads and start its engine.
 7. Use only jumper cables that are clean, in good condition, and are heavy enough to handle the starting current.
-

CAUTION! *Prevent accidental contact between jumper cable terminal clips or clamps or any metallic portion of either the compressor or the starting vehicle to eliminate the possibility of arcing, which might serve as a source of ignition.*

NOTE! *Positive battery terminals are usually identified by a plus (+) sign on the terminal and the letters POS near the terminal. A negative sign (-) or the letters NEG near the terminal usually identify the negative battery terminals.*

8. Connect one end of a jumper cable to the positive (POS) battery terminal in the starting vehicle. When jumpstarting a 24V compressor, and if the starting vehicle is provided with two (2) 12V batteries connected in series, connect the jumper cable to the positive (POS) (+) terminal of the ungrounded battery.
 9. Connect one end of the other jumper cable to the grounded negative (NEG) terminal of the battery in the starting vehicle. When jump starting a 24V compressor, and if the starting vehicle is provided with (2) 12V batteries connected in series, connect the jumper cable to the negative (NEG) terminal of the grounded compressor battery.
 10. Check your connections.
-

CAUTION!

Do not attempt to start a 24V compressor with a 12V system in the starting vehicle. Do not apply 24V to a 12V system in the compressor.

- 11.** Connect the other end of the same jumper cable to a clean portion of the compressor engine block away from fuel lines, the crankcase breather opening, and the battery.
- 12.** Start the compressor following normal procedure. Avoid prolonged cranking—damage to the starter may occur. Allow the compressor to warm up.
- 13.** When the compressor is warm and operating smoothly at normal idle RPM, disconnect the jumper cable from the engine block on the compressor, and then disconnect the other end of the same cable from the grounded negative (NEG) terminal of the battery on the starting vehicle.
- 14.** Disconnect the other jumper cable from the positive (POS) (+) terminal of the battery in the compressor, or if provided with (2) 12V batteries connected in series, from an ungrounded battery in the compressor, and then disconnect the other end of the same jumper cable from the positive (POS) (+) terminal of the battery in the starting vehicle, or from the positive (POS) (+) terminal of the ungrounded battery in the starting vehicle if it is provided with two (2) 12V batteries connected in series.
- 15.** Remove and carefully dispose of the dampened cloths. They may be contaminated with acid. Replace vent caps.

NOTE!

****The use of maintenance-free batteries may eliminate this step.**

6 MAINTENANCE

TOPICS IN THIS SECTION:

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6.1

MAINTENANCE SCHEDULE

| COMPRESSOR MAINTENANCE SCHEDULE | | | | | | | | |
|--|-------------------|----|-----|------|------|-------------|----------|---------------|
| PROCEDURE | FREQUENCY (HOURS) | | | | | | SEE NOTE | REF. |
| | DAILY | 50 | 250 | 1000 | 2000 | AS REQUIRED | | |
| Check oil level (before starting) | x | | | | | | 1 | 6.3 |
| Check radiator coolant level | x | | | | | | 1 | |
| Check fuel supply (after starting) | x | | | | | | 1 | |
| Check air filter elements | x | | | | | | 1,7 | |
| Check for fuel, oil air and water leaks | x | | | | | | 1 | |
| Drain water from compressor sump | | x | | | | | 2 | |
| Drain water and sediment from fuel tank | | x | | | | | 2,7 | |
| Change oil filter element | | x | | x | | | 6 | 6.6 |
| Change compressor oil | | | | x | | x | 5 | 6.3, 6.4, 6.5 |
| Check drawbar and bolt torque | | | x | | | | 3 | 6.2 |
| Check wheel lug nuts | | | x | | | | 3 | |
| Check tire pressure | | | x | | | | 3 | |
| Inspect lifting frame (before each lift) | | | x | | | | 3 | |
| Change compressor air filter element | | | | x | | | 4,7 | |
| Check axle spring shackles and mounting bolts | | | | x | | | 4 | |
| Clean battery terminals | | | | x | | | 4 | |
| Check battery hold-downs and cables for wear | | | | x | | | 4 | |
| Check compressor shaft seal for leaking | | | | x | | | 4 | 6.13 |
| Check air filter piping, fittings and clamps | | | | x | | | 4 | |
| Check radiator hoses and clamps | | | | x | | | 4 | |
| Check engine and compressor supports | | | | x | | | 4 | |
| Replace air/oil separator element | | | | | x | | 5 | 6.11 |
| Check all door gaskets, hinges and latches | | | | | x | | 5 | |
| Drain engine radiator coolant and replace | | | | | x | | 5 | |
| Clean and flush cooling system | | | | | x | | 5 | 6.12 |
| Check protective circuits and verify proper function | | | | | x | | 5 | |
| Check sump pressure relief valve | | | | | x | | 5 | |
| Inspect and clean oil system thermostat | | | | | | x | 6 | |
| Check control adjustment | | | | | | x | 6 | 6.14 |
| Re-pack wheel bearings | | | | | | x | 6 | |

NOTES

1. Or every 10 hours of operation or on rent return
2. Or weekly
3. Or before returning to ready line
4. Or 6 months
5. Or annually
6. After first 50 hours of operation
7. More frequently in extreme operating conditions (dusty, humid, low temperature)

NOTE!

For engine maintenance, please refer to the Engine Manufacturer's Manual.

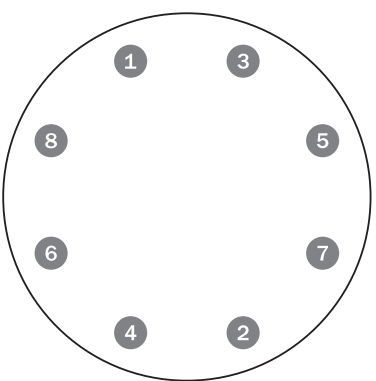
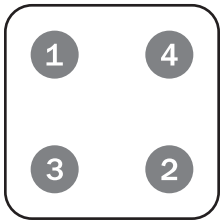
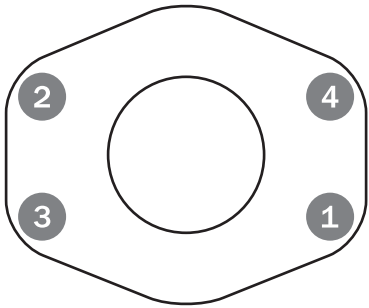
6.2

BOLT TORQUE GUIDELINES

6.2.1 INCH FASTENERS

| INCH FASTENERS TORQUE | | | | |
|-----------------------|---------------------|-------|---------------------|-------|
| Size | SAE Grade 5 (ft-lb) | | SAE Grade 8 (ft-lb) | |
| | Dry | Oiled | Dry | Oiled |
| ¼-20 | 8 | 6 | 12 | 9 |
| ⅜-18 | 17 | 13 | 25 | 18 |
| ½-16 | 30 | 23 | 45 | 35 |
| ⅞-14 | 50 | 35 | 70 | 55 |
| 1-13 | 75 | 55 | 110 | 80 |
| 1 ⅛-12 | 110 | 80 | 150 | 110 |
| 1 ½-11 | 150 | 110 | 220 | 170 |
| 1 ¾-10 | 260 | 200 | 380 | 280 |

6.2.2 TORQUE SEQUENCE

| TYPICAL BOLT TORQUE PATTERNS | | |
|--|---|--|
| Circular Pattern (8-Bolt) | Square Pattern | Flange Pattern |
|  |  |  |

6.3

COMPRESSOR LUBRICATION

Change oil at least once a year, even if the normal oil change period in hours has not yet been reached.

CAUTION!

Never mix synthetic lubricants with hydrocarbon lubricants. Never mix synthetic lubricants manufactured from different base products. Severe damage to the compressor system may result.

Contamination of non-detergent mineral oils with traces of ATF, or detergent motor oils, may lead to problems such as foaming and plugging of filters, orifices, and lines. Lubricant manufacturers include a variety of additives in the blending process to enhance lubrication, product life and performance. Mixing different types or brands of lubricants is not recommended due to the possibility of a dilution of the additives or a reaction between additives of different types.

Environmental conditions in the area of compressor operation such as the presence of reactive gases or vapors in the air may lead to chemical changes and premature degradation of the lubricant. The useful life of synthetic lubricants may extend the normally recommended drain and replace period; however, the user is encouraged to closely monitor the lubricant condition and to participate in an oil analysis program with the fluid supplier. When ambient conditions exceed those noted, or if conditions warrant use of “extended life” lubricants, contact Sullivan-Palatek for a recommendation.

6.3.1 CHECK

The oil level should be checked daily.

1. Shut down the compressor (or check before the compressor is turned on).
2. Wait two minutes after the compressor stops to allow the pressure to be relieved and the oil to settle.
3. Observe the oil level in the fluid sight glass. The fluid sight glass should be ½ to ⅔ full.
4. While the compressor is running, the oil should be visible in the sight glass.

6.3.2 FILL

Before adding or changing compressor oil, completely relieve the sump of pressure. Venting the sump tank pressure relief valve will do this.

6.3.3 LEVEL

The proper oil level, when unit is shut down and oil has had time to settle, is across the center of the oil level sight glass. For oil sump capacity, see the 2.1 *Technical Data* on page 8.

WARNING!

Compressor must be shut down and pressure completely relieved from system before checking fluid levels. Open pressure relief valve to assure relief of system air pressure. Failure to comply with this warning may cause property damage and serious bodily harm or death.

6.3.4 DRAIN

Always warm compressor thoroughly prior to changing the compressor oil. All fluid drains are located on the rear streetside of the machine. When changing the oil, make sure system is completely drained to reduce potential contamination. Oil is added at the fill plug on the side of the sump tank.

WARNING!

Do not attempt to drain water, remove the oil level fill plug, or break any connection in the air or oil system until all the pressure has been relieved. Check by manually opening the sump pressure relief valve. Serious injury or death may result if this warning is not followed.

6.4

WEATHER-ALL™ COMPRESSOR LUBRICANT

All of Sullivan-Palatek's portable air compressors are initially filled with Sullivan-Palatek's WEATHER-ALL HP™ Compressor Fluid at factory. This custom-formulated, multi-viscosity 5W-20 lubricant is specifically designed for long life under severe, demanding conditions. Maximum protection against scuffing and wear to bearings and rotors, and wear-control for steel and brass parts when operating at maximum pressure ratings results in extended compressor life. Extensive testing has shown this fluid exhibits excellent resistance to foaming, oil oxidation and corrosion of yellow metals and limits rust of ferrous metals.

This synthesized hydrocarbon-based fluid provides quick water separation which enhances equipment protection in wet and humid service environments. It offers an excellent viscosity index of 180 as well as low pour point of -40°F.

Sullivan-Palatek strongly advises the continued use of WEATHER-ALL to ensure optimal compressor performance, and lower equipment maintenance costs.

| LUBRICANT SPECIFICATIONS | | | |
|--------------------------|---------|---------------------|---------------|
| ISO Viscosity Grade | 32 | Normal Service Life | 1000 hours* |
| SAE Viscosity Grade | 5W-20 | Viscosity Index | 180 |
| Viscosity, cst. 210°F | 50 SUS | Pour Point | -40°C / -40°F |
| Viscosity, cst. 100°F | 170 SUS | Flash Point | 199°C |

NOTE!

These values are not intended for use in preparing specifications.

*Service life is only a guideline for typical oil life if temperature is the only variable to be considered. Many variables affect the oil life, i.e. environmental impact from various gases, dust and dirt, compressor short cycling, etc.

Sullivan-Palatek recommends oil sampling as the best guide for your fluid change interval. Changing fluid once a year may not be adequate or it can be excessive. For this reason an hourly service on lubricants is merely a guide. Please consult your factory-trained servicing distributor for questions concerning your lubricant life and Sullivan-Palatek's lubricant sampling program. See 6.5 *Oil Sample for Analysis* for additional information.

6.5 OIL SAMPLE FOR ANALYSIS

The first oil sample should be drawn after the compressor has run for 500 hours or 3 months. Intervals for following oil samples will be determined by the analysis results.

SAMPLE OIL FROM SUMP TANK

1. Run the compressor long enough to reach normal operating temperatures.
2. Turn compressor OFF and allow pressure to blow down to 0 psi.
3. Remove the drain plug from the end of the drain line at the bottom of the sump tank.
4. Open the drain valve and drain any water from the sump tank. Discard in an approved manner.
5. Fill the clear sample bottle (2) with oil. The sample bottle (2) must be at least one-third full.
6. Close the drain valve and replace the plug in the drain line.
7. Start the compressor according to 5.3 Normal Starting procedures.
8. Check the oil level during operation. Add oil if necessary according to 6.3.2 Fill procedures.



FIGURE 6-1. OIL ANALYSIS KIT (P/N K00031-035)

SUBMIT OIL SAMPLE

1. Fill out all the information on the oil sample form (3) provided with the oil analysis kit. Please make sure the form is completely and legibly filled out.
2. Place the oil sample bottle (2) inside the black canister and put the lid on.
3. Mail the sample with the form to:
Wear Check
501 Madison Avenue
Cary, NC 27513

INTERPRET RESULTS

Once the sample is processed the laboratory will e-mail the results of the oil analysis to the sender of the sample. The analysis report includes customer unit information, sample data, spectrochemical analysis, physical properties, additional test results and analysis recommendations. If previous oil samples have been submitted for analysis, that information will also be on the report. Information to assist in understanding the analysis report is included on the front of the report.

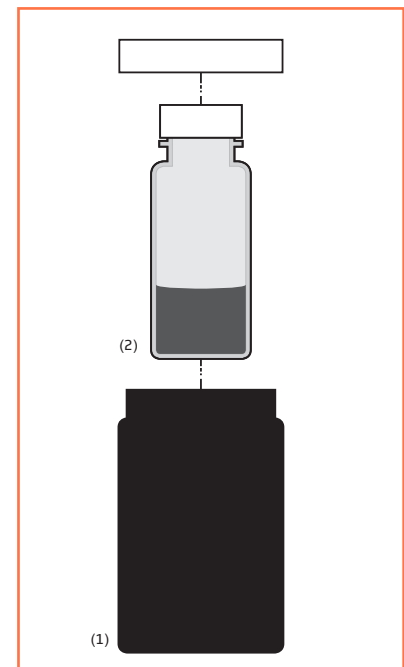


FIGURE 6-2. MAIL ANALYSIS KIT

6.6 COMPRESSOR OIL FILTER

Replace the oil filter element once after the first 50 hours of operation, then every 1,000 hours. Replace more frequently in extreme operating conditions.

6.6.1 INSPECTION

The compressor oil filter should be checked making sure it has the proper element and it is properly installed and not leaking.

6.6.2 REMOVAL

1. Make sure the system pressure is relieved.
2. Place oil spill pan under filter.
3. Remove both filters by unscrewing counter-clockwise.

6.6.3 INSTALLATION

1. Install new filters.
2. Check for leaks in operation.

6.7 ENGINE LUBRICATION

Refer to Engine Operator's Manual for recommended engine lubricating oil, service intervals, and maintenance practices.

6.8 AXLE OIL

Use API-GL-5 lubricant with a viscosity of SAE 80W-90.

6.9 AIR INTAKE FILTER

Check daily, every 10 hours of operation or on rent return. Replace every 1,000 hours or 6 months. Replace more frequently in dusty conditions. Empty the evacuator valve (dust boot) daily.

6.9.1 REMOVAL AND INSPECTION

1. Open the locking devices to remove air filter cover.
2. Remove and inspect the used primary element by turning counter-clockwise to unscrew. Remove and inspect the secondary filter. The air filter elements should be thoroughly inspected for holes by placing a lamp inside the element and carefully checking for areas of bright light passing through the element and seal.

6.9.2 INSTALLATION

1. Screw the new filter(s) into place by turning clockwise.
2. Install air filter cover making sure evacuator valve is on the 6 o'clock position.

6.10 OIL RETURN LINE

Check the oil return line periodically to make sure that it does not become clogged. A clogged line results in excessive oil consumption and oil in the service lines.

6.10.1 INSPECTION

Inspect oil return line for clogging.

6.10.2 CLEANING

If clogging is indicated, check and clean the entire line, including the orifice fitting at the compressor end, and the siphon tube inside the separator. Usually, blowing with a reverse flow of compressor air will clean the line.

6.11 AIR/OIL SEPARATOR

Replace the air/oil separator every 2,000 hours, annually, or when differential exceeds 10psi. The air/oil separator employs a unitized element.

The separator element is a single piece unit, which requires replacement when it fails to remove the oil from the discharge air. Prior to replacing the separator element be sure to check the oil return line and orifice for plugging or restrictions.

WARNING! *Prevent separator flash or fire. Maintain the separator element in proper condition and do not allow it to become plugged with dirt and oxidized oil; be certain that the sump lid is properly grounded to the sump when installing a new separator. DO NOT REMOVE THE GROUNDING STAPLES IN SEPARATOR GASKET.*

The combination of a build-up of dirt and oxidized oil can clog the element causing an increase in air velocity at narrow points on the element media. Elevated temperatures at these points can result in ignition of the fluid in the oil sump.

6.11.1 REMOVAL

1. Relieve sump pressure to zero pressure.
2. Disconnect oil return line. Loosen fitting and pull siphon tube up out of separator.
3. Remove service air piping from minimum pressure valve.
4. Mark and disconnect necessary tubing at separator cover and then remove cover.

6.11.2 INSTALLATION

WARNING! *Failure to properly ground the sump lid and separator can result in the build-up of an electric charge leading to ignition inside the sump. DO NOT REMOVE THE GROUNDING STAPLES IN SEPARATOR GASKET. Failure to comply with this warning may cause property damage and serious bodily harm or death.*

1. Remove and replace element.

WARNING! *Lid and sump tank top must be clean to ensure proper grounding between element and tank. Make sure grounding staples are in top and bottom gasket.*

2. Replace separator cover; tighten bolts gradually in an opposing manner until required torque is reached. Refer to 6.2 Bolt Torque Guidelines.
3. Clean oil return line and orifice.
4. Install service air piping and reconnect all tubing. When replacing the oil return siphon tube, allow it to contact the bottom of the sump tank then back off no more than 1/16 inch.

NOTE! *If the separator element has to be replaced frequently because it is plugged, it is an indication that dirt is entering the inlet system, the compressor oil filter is faulty, or the oil is breaking down. The complete inlet system, starting with the air cleaner, and all joints in piping to the inlet valve, should be checked for leaks.*

6.12 OIL COOLER

The interior of the oil cooler should be cleaned when the pressure drop across the cooler at full load exceeds 25 psi.

6.12.1 INSPECTION

Inspect compressor oil system for signs of varnish.

6.12.2 REMOVAL

1. Drain compressor fluid.
2. Remove oil cooler.

6.12.3 CLEANING

Circulate a suitable solvent to dissolve and remove varnish and sludge.

6.12.4 INSTALLATION

1. Replace oil cooler and fill compressor with fresh oil.
2. Operate the machine normally for 50 hours.
3. After 50 hours, change compressor oil and install a new oil filter element.

6.13 COMPRESSOR SHAFT OIL SEAL

Check the compressor shaft seal for leaking oil every 1,000 hours or 6 months.

6.13.1 INSPECTION

Inspect the compressor shaft seal for signs of leaking oil.

NOTE! *If replacement is necessary, removal and installation instructions will be provided with the shaft seal kit.*

6.14

CONTROL ADJUSTMENTS

The engine speed governor and pressure regulator are preset at the factory and normally require no servicing. However, if it becomes necessary to make adjustments, use the following procedures:

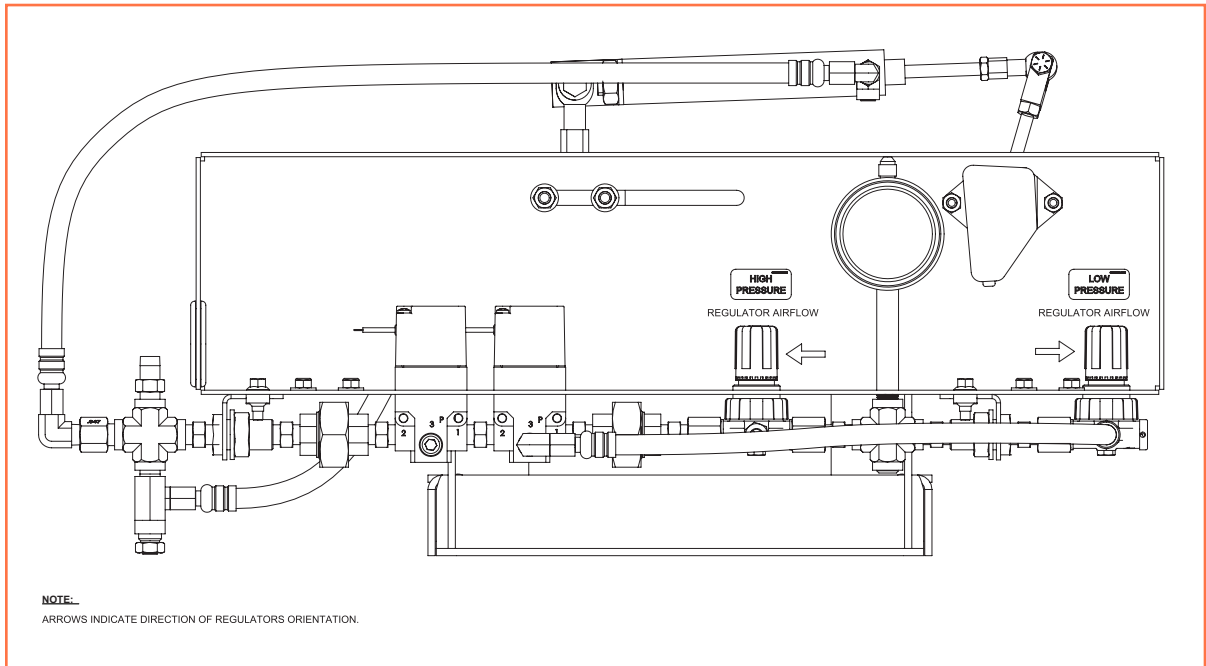


FIGURE 6-3. CONTROL ADJUSTMENT (THROTTLE) 1600PHCA4

6.14.1 DISCHARGE PRESSURE ADJUSTMENT

Unit must be in RUN mode before adjusting. To increase pressure, rotate knob clockwise. Lower the operating pressure by rotating counterclockwise. Check engine speed whenever pressure settings have been changed. Only the unloaded pressure can be selected with the pressure-regulating valve. Full and part load pressures are a function of air usage. To decrease pressure the regulator must be rotated counter-clockwise 2 full turns below desired pressure, then turn clockwise up to desired setpoint.

LOW PRESSURE (100 PSI)

Pull the appropriate black knob up to adjust pressure setting. To decrease pressure the regulator must be rotated counter-clockwise 2 full turns below desired pressure, then turn clockwise up to desired setpoint. When finished push the knob back down to lock position.

HIGH PRESSURE (150 PSI) [ON HIGH PRESSURE PHCA MODELS ONLY]

Pull the appropriate black knob up to adjust pressure setting. Loosen the Regulator at least two turns and then bring the Regulator up to 165 psi. When finished push the knob back down to lock position.

6.14.2 ENGINE SPEED ADJUSTMENTS

For proper adjustment the engine must be started and warmed up. The correct grade of oil and fuel must be used and a clean air filter must be in place. Prior to making any adjustment, be sure that the regulator setting is high enough to prevent air leakage from the regulator vent hole. Close the service air valve so that the unit unloads.

6.14.3 FULL LOAD SPEED

Open the service air valve so that the compressor loads then throttle as necessary to hold discharge pressure at desired setting. Be sure there is no air leakage from the pressure regulator or control line. If speed is too high reposition the throttle control air cylinder. If speed is too low make the opposite adjustment. Secure locknuts after proper speed is obtained.

NOTE!

For full load speed and discharge pressure values see 2.1 Technical Data on page 8.

7

TROUBLESHOOTING

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7.1 INTRODUCTION

This section contains instructions for troubleshooting the equipment following a malfunction. Each issue or problem is followed by a list of probable causes and suggested actions to be followed in order to eliminate the cause.

The actions listed should be performed in the order listed, although the order may be varied if the need is indicated by conditions under which the problem occurred. The action which can be performed in the least amount of time and with the removal or disassembly of the fewest parts should be performed first.

7.2 CONTROL SYSTEM

| UNIT WILL NOT LOAD | |
|---|---|
| POSSIBLE CAUSE | ACTION |
| Fuel level below 3% | Add fuel. |
| Discharge temperature high | Refer to 7.4 <i>Cooling on page 56.</i> |
| Discharge temperature sensor below 100°F | Verify oil temperature over 100°F with infrared temperature sensor. Sensor may be unplugged or faulty. |
| Load/Unload normally closed solenoid faulty | Inspect, test, and replace as needed. |
| Load/Unload relay/solenoid is faulty | Inspect, test, and replace as needed. |
| Debris in control line | Inspect, and remove debris. |
| Coalescent filters are dirty or plugged | Replace filters. |
| Coalescent filter's float stuck open | Inspect, fix, or replace as needed. |
| Regulator is faulty | Inspect and replace as needed. |
| Regulator adjusted below minimum pressure value | Adjust pressure regulator above 90 psi. |
| Dry side transducer reading below 20 psi | Verify machine is making pressure. Transducer unplugged or faulty. |
| Inlet stuck in closed position | Inspect inlet actuator for problems. |

| UNIT WILL NOT UNLOAD | |
|---|--------------------------------------|
| POSSIBLE CAUSE | ACTION |
| Load/Unload normally closed solenoid stuck open or faulty | Inspect, test and replace as needed. |
| Load/Unload relay is faulty | Inspect, test and replace as needed. |
| Inlet stuck in open position | Inspect inlet actuator for problems. |

| UNIT AUTOMATICALLY UNLOADS | |
|---|---|
| POSSIBLE CAUSE | ACTION |
| Discharge temperature high | Refer to 7.4 <i>Cooling on page 56.</i> |
| Fuel level low (less than 3%) | Add fuel. |
| Solenoid failure; loss of power to Load/Unload solenoid | Check voltage and connections. Fix and replace as needed. |

ENGINE SPEED WILL NOT INCREASE

| POSSIBLE CAUSE | ACTION |
|---|--|
| Speed cylinder linkage bound up | Inspect and lubricate if needed. |
| .047 inline orifice is plugged | Remove and clean orifice. |
| Engine in Derate mode due to engine warning | Engine fault must be fixed. |
| Bleed orifice in control system removed | Verify no control systems bleeds have loosened and fallen out. |

ENGINE SPEED WILL NOT DECREASE

| POSSIBLE CAUSE | ACTION |
|---------------------------------|----------------------------------|
| Speed cylinder linkage bound up | Inspect and lubricate if needed. |
| Bleed orifices plugged | Clean orifices. |

OIL COMING OUT OF BLEED ORIFICES

| POSSIBLE CAUSE | ACTION |
|-----------------------------------|---|
| Scavenger line plugged | Inspect and clean orifices in scavenge sight glass. |
| Oil system contaminated | Drain, flush system and replace oil and filters. |
| Air/oil separator faulty | Replace air/oil separator. |
| Oil level in sump tank overfilled | Drain as needed to ½ to ⅔ in sight glass. |
| Low operating PSI | Increase operating PSI regulator. |
| Incorrect operating temperature | Inspect/replace thermostat. |

REGULATOR WILL NOT ADJUST +/-

| POSSIBLE CAUSE | ACTION |
|-----------------------|--------------------|
| Unit in UNLOAD status | Load compressor. |
| Regulator faulty | Replace regulator. |

TANK OVERPRESSURE

| POSSIBLE CAUSE | ACTION |
|--|--------------------------------------|
| Regulator setpoint too high | Lower set pressure. |
| Bleed orifices in control system are plugged | Remove and clean orifices. |
| Inlet valve stuck open | Inspect inlet actuator for problems. |
| Inlet valve base leaking at O-ring | Remove inlet and replace O-ring. |

UNIT WON'T BUILD AIR

| POSSIBLE CAUSE | ACTION |
|-----------------|-----------------------------|
| Coupling faulty | Repair or replace coupling. |

7.3

SHUTDOWN

COMPRESSOR DISCHARGE PRESSURE

POSSIBLE CAUSE

Compressor discharge temperature exceeds 265° F

ACTION

Refer to 7.4 *Cooling* on page 56.

NO FUEL/DEF

POSSIBLE CAUSE

Fuel tank empty

ACTION

Fill fuel tank. Refer to 5.8 *Low Fuel/Adding Fuel* on page 41.

DEF tank empty

Fill DEF tank with Diesel Exhaust Fluid meeting ISO22241 standard.

ENGINE SHUTDOWN

POSSIBLE CAUSE

Check engine faults

ACTION

If fault is present, fix problem related to fault.

If none of the above caused the shutdown, restart the engine and observe the engine oil pressure, engine water temperature, compressor discharge temperature and pressure gauges. Refer to the *Wiring Diagram* on page 11 and information on the protection circuits for shutdown conditions. If it is found that low engine oil pressure or high engine water temperature is causing the shutdown, refer to the engine manufacturer's manual.

7.4

COOLING

COMPRESSOR OIL HIGH TEMPERATURE

POSSIBLE CAUSE

Oil cooler dirty

ACTION

Clean oil cooler.

Oil level low

Add appropriate compressor oil.

Thermostat failure

Replace thermostat.

Fan belt broken/slipping

Replace fan belt.

ENGINE HIGH TEMPERATURE

POSSIBLE CAUSE

Coolant level low

ACTION

Add appropriate engine coolant.

Oil cooler dirty

Clean oil cooler.

Thermostat failure

Replace thermostat.

Water pump faulty

Inspect and replace water pump if needed.

Fan belt broken/slipping

Replace fan belt.

7.5

ENGINE

ENGINE FAULT

POSSIBLE CAUSE

Engine parameter out of range

ACTION

Refer to the Diagnostic Trouble Code Guide located in the engine manufacturer's manual.

Some warning faults may cause the engine to go into derate mode. Derate reduces the speed of the engine substantially.

7.6

AIR END

COMPRESSOR DISCHARGE TEMPERATURE WARNING

| POSSIBLE CAUSE | ACTION |
|---|---|
| Oil level low | Check oil level. Add oil if needed. |
| Oil cooler dirty | Clean oil cooler. |
| Oil filter dirty/plugged | Replace oil filter. |
| Fan belt slipping | Check fan belt for proper tension. |
| Fresh air insufficient | Must have 10 feet clearance in all directions around the compressor unit. |
| False warning caused by faulty temperature sensor | Verify correct temperature readings. |

7.7

FUEL/DEF

LOW FUEL/DEF WARNING

| POSSIBLE CAUSE | ACTION |
|---|--|
| Fuel level is 10% capacity or less | Fill unit with fuel. Refer to 5.8 <i>Low Fuel/Adding Fuel on page 41</i> . |
| False warning caused by faulty fuel level sensor | Verify machine is topped off with diesel fuel. |
| DEF level is between 50%– 25% capacity (yellow warning icon) | No action needed. Monitor levels. |
| DEF level is between 25%– 12.5% capacity (red warning icon) | Fill DEF tank with Diesel Exhaust Fluid meeting ISO22241 standard. Refer to 5.9 <i>Low DEF/Adding DEF on page 41</i> . |
| DEF level is between 12.5%– 0% capacity (flashing red warning icon) | Fill DEF tank with Diesel Exhaust Fluid meeting ISO22241 standard. Refer to 5.9 <i>Low DEF/Adding DEF on page 41</i> . |

7.8

FILTRATION

SERVICE AIR FILTER WARNING

| POSSIBLE CAUSE | ACTION |
|--|----------------------|
| 70 mBar vacuum pressure switch has been closed | Replace air filters. |

SERVICE OIL FILTER WARNING

| POSSIBLE CAUSE | ACTION |
|---|----------------------|
| 15 psi oil pressure differential switch has been closed | Replace oil filters. |

7.9

DISCHARGE SYSTEM

SERVICE AIR/OIL SEPARATOR WARNING

POSSIBLE CAUSE

Pressure differential between the wet and dry side has exceeded 10 psi for 600 seconds (10 minutes)

ACTION

Verify wet and dry side pressures by referring to the Air/Oil Separator page in the Compressor Diagnostics menu on the controller.

Replace air/oil separator if needed.

False warning caused by faulty transducers

Inspect transducers and replace if needed.

OIL IN DISCHARGE LINE

POSSIBLE CAUSE

Oil return line plugged or restricted

ACTION

Clean oil return line.

Separator element plugged or damaged

Inspect separator element; replace if necessary.

Discharge pressure below 90 psi

Raise system pressure above 90 psi.

7.10

OPTION: AFTERCOOLER

SERVICE AFTERCOOLER FILTER WARNING

POSSIBLE CAUSE

Pressure differential between the prefilter and post filter has exceeded 20 psi

ACTION

Replace aftercooler filters.

False warning caused by faulty transducers

Inspect transducers and replace if needed.

7.11

OPTION: CONDENSATE KIT

CONDENSATE IN DISCHARGE AIR

POSSIBLE CAUSE

Water contaminating aftercooler air

ACTION

Clean Y-Strainer and orifices in drains.

7.12

OPTION: FLEXXAIRE FAN

FAN REMAINS AT FULL PITCH

POSSIBLE CAUSE

Pressure signal to and from solenoid valves has been lost or blocked due to ice or debris

ACTION

Clean solenoid valve bleed orifice.

7.13

OPTION: HEATER CONTROL KIT

HEATER PADS ARE COLD

POSSIBLE CAUSE

Rotary switch is OFF

ACTION

Turn switch ON.

Relay is faulty

Replace relay.

Refer to *2.15 Optional Heater Control Kit Harness Schematic on page 23* for wiring diagrams.

7.14

OPTION: REMOTE FUEL

LOW FUEL RAIL PRESSURE FAULT

POSSIBLE CAUSE

No fuel in remote fuel tank

ACTION

Fill remote fuel tank with fuel.

Selector valves are in the incorrect position, and drawing off main tank

Verify correct position of remote fuel valves.

7.15

OPTION: OIL REGULATOR

ENGINE OVER-FILLED

| POSSIBLE CAUSE | ACTION |
|---|---|
| Oil regulator mount adjustment too high | Adjust oil regulator mount. Refer to 8.36 [OPTION] Oil Level Regulator Kit on page 182. |
| Oil regulator float stuck | Reposition oil regulator float. |

ENGINE UNDER-FILLED

| POSSIBLE CAUSE | ACTION |
|--|--|
| Oil reservoir tank empty | Fill oil reservoir tank. |
| Oil regulator mount adjustment too low | Adjust oil regulator mount. Refer to to 8.36 [OPTION] Oil Level Regulator Kit on page 182. |

8

PARTS CATALOG

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| » Receiver Assembly | 94 |
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| » Acoustics Assembly | 142 |
| » Chassis Assembly | 146 |
| » DOT/Trans-Canada Light Assembly | 148 |
| » Axle Assembly | 152 |
| » Wheel and Tire Assembly | 156 |
| » Drawbar Assembly | 158 |
| » [OPTION] Aftercooler Assembly | 160 |
| » [OPTION] Condensate Kit | 162 |
| » [OPTION] Fan Kit Assembly | 164 |
| » [OPTION] Fuel/Water Separator | 166 |
| » [OPTION] Heater Control Kit | 168 |
| » [OPTION] Auto Start-Stop Kit | 170 |
| » [OPTION] Remote Fuel Fill Kit | 176 |
| » [OPTION] Oil Level Regulator Kit | 182 |
| » [OPTION] Skid Mount Kit | 184 |

8.1 ORDERING PARTS

A list of recommended spare parts for this compressor is provided on the following page. These parts can be kept on hand to minimize downtime for the most common maintenance issues. A complete parts listing is included with exploded drawings for all the parts on the compressor.

Parts should be ordered from the nearest full-service distributor or factory-authorized compressor center. Only call the factory if parts cannot be obtained locally. Before calling to order parts, please have the model and serial number information available. This information can be found on the serial number plate located on the compressor.

NOTE!

Use the space provided on the inside cover of the manual to record the model and serial number of the compressor for future reference.

8.1.1 CONTACT INFORMATION

For replacement parts and manuals contact:

Sullivan-Palatek, Inc.
1201 West US Highway 20
Michigan City, Indiana 46360

Phone: (219) 874-2497
Fax: (219) 872-5043
Toll Free: (800) 438-6203
www.sullivan-palatek.com

8.2 PARTS DRAWINGS

The parts drawings are exploded drawings of the various assemblies and sub-assemblies which make up this machine. Standard models and more popular options available are covered.

NOTE!

In referring to the rear, the front or to either side of the unit, always consider the drawbar end of the unit as the front. Standing at the rear of the unit facing the drawbar (front) will determine the right and left sides.

8.3 FASTENERS

Both SAE/inch and ISO/metric hardware have been used in the design and assembly of these units. In the disassembly and reassembly of parts, extreme care must be taken to avoid damaging threads by the use of wrong fasteners.

8.4

RECOMMENDED SPARE PARTS

D1600PHCA4

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|--|-----|
| 1 | 00520-018 | ELEMENT, OIL FILTER 300/350 | 2 |
| 2 | 01900522 0100 | ELEMENT, AIR FILTER, PRIMARY | 3 |
| 3 | 01900522 0079 | ELEMENT, AIR FILTER, SECONDARY | 3 |
| 4 | 01900522 0110 | ELEMENT, AIR FILTER .01 MICRON (AFTERCOOLER) | 1 |
| 5 | 01900522 0109 | ELEMENT, AIR FILTER 1 MICRON (AFTERCOOLER) | 1 |
| 6 | 01900522 0061 | ELEMENT, RACOR FILTER, FUEL | 1 |
| 7 | 08000-321 | ELEMENT, SEPARATOR | 1 |
| 8 | 01900522 0068 | ELEMENT, FUEL/WATER SEPARATOR, PRIMARY | 1 |
| 9 | 01900520 0046 | FILTER, FUEL VENT 10 MICRON | 1 |
| 10 | 00527631 0017 | FILTER, ENGINE OIL C15 | 1 |
| 11 | 00527631 0019 | FILTER, ENGINE COOLANT CAT C15 | 1 |
| 12 | 01900522 0050 | FILTER, ENGINE FUEL CAT | 2 |
| 13 | 00823062 0010 | OIL, WEATHER-ALL, DRUM, 55 GAL | 1 |
| 14 | 05019205 0010 | SENDER, PRESSURE 0-500 PSI | 4 |
| 15 | 01901174 0010 | PROBE, TEMPERATURE 4-20MA | 3 |
| 16 | 05019836 0020 | VALVE, SOLENOID 24VDC | 1 |
| 17 | 05019070 0010 | REGULATOR, PRESSURE .8MM ORIFICE | 1 |
| 18 | 00717415 0019 | BELT, FAN C15 T4F | 1 |
| 19 | 01900152 0068 | BELT, ALTERNATOR C15 T4F | 1 |

NOTE!

Use only service parts supplied or recommended by Sullivan-Palatek. Use of substitutes may void warranty. See **STANDARD WARRANTY** for details.

8.5

SERVICE KITS

Service kits are available for basic servicing of the compressor and engine. Buying kits offers savings over buying individual parts. There are annual kits (wet or dry) for a year's worth of compressor and engine servicing and line service kits for a single compressor and engine service.

| DESCRIPTION | CONTENTS | PART NUMBER |
|---------------------------|---|---------------|
| SERVICE KIT, ANNUAL (WET) | 6 ELEMENT, AIR FILTER (PRIMARY) 6 ELEMENT, AIR FILTER (SECONDARY) 4 ELEMENT, OIL FILTER (COMPRESSOR) 2 ELEMENT, OIL FILTER (ENGINE) 4 ELEMENT, FUEL FILTER 1 ELEMENT, SEPARATOR 2 ELEMENT, FUEL/WATER SEPARATOR, PRIMARY 2 FLUID, COMPRESSOR WEATHER-ALL (55 GALLON) | 00717701 0140 |
| SERVICE KIT, ANNUAL (DRY) | 6 ELEMENT, AIR FILTER (PRIMARY) 6 ELEMENT, AIR FILTER (SECONDARY) 4 ELEMENT, OIL FILTER (COMPRESSOR) 2 ELEMENT, OIL FILTER (ENGINE) 4 ELEMENT, FUEL FILTER 1 ELEMENT, SEPARATOR 2 ELEMENT, FUEL/WATER SEPARATOR, PRIMARY | 00717701 0139 |
| SERVICE KIT, LINE (WET) | 3 ELEMENT, AIR FILTER (PRIMARY) 3 ELEMENT, AIR FILTER (SECONDARY) 2 ELEMENT, OIL FILTER (COMPRESSOR) 1 ELEMENT, OIL FILTER (ENGINE) 2 ELEMENT, FUEL FILTER 1 ELEMENT, FUEL/WATER SEPARATOR, PRIMARY 1 FLUID, COMPRESSOR WEATHER-ALL (5 GALLON) | 00717701 0138 |

STREETSIDE

MOUNTING

CURBSIDE

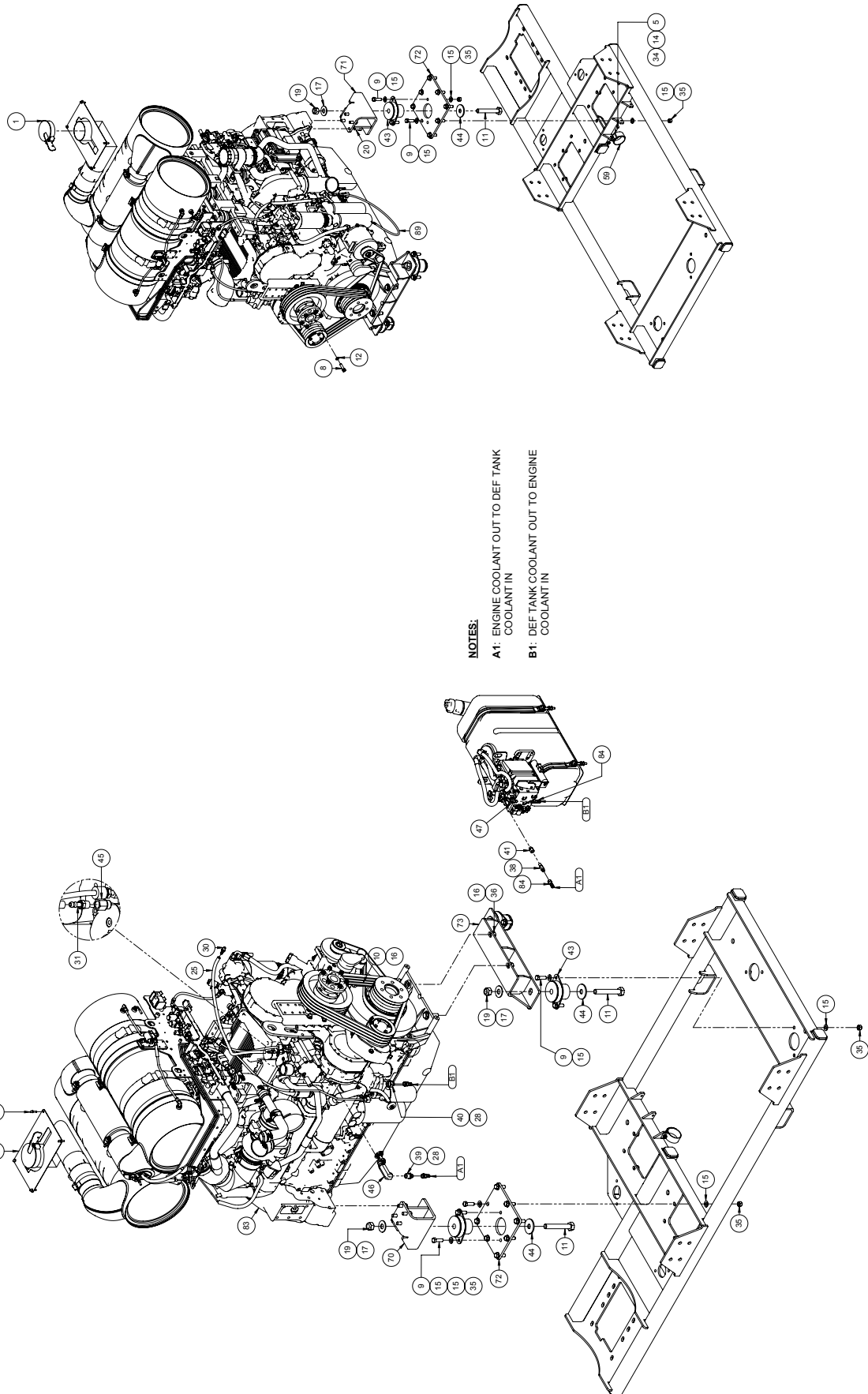


FIGURE 8-1. 00717585 0253 (REV 04)

0717585 0253 ENGINE ASSEMBLY-540HP

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|----------------|---|-------|
| 1 | 00519136 0009 | CAP, RAIN 5.00 | 1 |
| 2 | 00519470 0004 | CLAMP, EXHAUST 4" | 1 |
| 3 | 00519470 0012 | CLAMP, EXHAUST 5.00 GUILLOTINE | 1 |
| 4 | 009000112 0013 | BOLT, HEX 3/8-16 X 1 GR8 | 6 |
| 5 | 009000112 0023 | BOLT, HEX .3750-16 X 1.250 GR8 | 7 |
| 6 | 009000112 0033 | BOLT, HEX 3/8-16 X 1 1/2 GR8 | 8 |
| 7 | 009000112 0053 | BOLT, HEX .3750-16 X 2.000 GR8 | 4 |
| 8 | 00900112 0054 | SCREW, 1/2-13 X 2" LG GD 8 | 6 |
| 9 | 009000112 0055 | BOLT, HEX 5/8-11 X 2" GR8 | 24 |
| 10 | 00900112 0096 | BOLT, HEX 3/4-10 X 3 GR8 | 2 |
| 11 | 009000112 0508 | BOLT, HEX 1-8 X 6-1/2 LG GR5 | 4 |
| 12 | 009000305 0004 | WASHER, LOCK .500 ZINC PLATED | 6 |
| 13 | 009000324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 1 |
| 14 | 009000324 0009 | WASHER, FLAT 3/8 SAE STD | 42 |
| 15 | 009000324 0013 | WASHER, FLAT .6250 SAE STD | 48 |
| 16 | 009000324 0015 | WASHER, FLAT 3/4 SAE STD | 4 |
| 17 | 009000324 0017 | WASHER, FLAT 1.00 SAE STD | 4 |
| 18 | 009000391 0002 | BOLT, TPHMS .250-20 X .750 S5 W NYL | 1 |
| 19 | 009000490 0125 | NUT, NYL OK 1-8 ZINC PLATED | 4 |
| 20 | 00902239 0821 | SCREW, 5/8-11 X 1-1/2" LG SHCS | 8 |
| 21 | 00902319 0005 | CLAMP, HOSE 13/16 X 1-1/2 | 4 |
| 22 | 00902905 0006 | CLAMP, SUPPORT .94 ID | 33 |
| 23 | 00906156 1034 | NIPPLE, HOSE BAND-IT 1.00 ID HOSE X .750 MNPT | 2 |
| 24 | 00906771 0114 | SCREW, THUMB 1/4-20 X 1" S5 | 4 |
| 25 | 00906814 0006 | HOSE, 3/8" ID 250 PSI | 5 FT |
| 26 | 00906814 0008 | HOSE, 1/2" ID 300 PSI | 28 FT |
| 27 | 00906814 0017 | HOSE, 5/8" ID 250 PSI GRN | 33 FT |
| 28 | 00906833 0008 | BARB, HOSE, .500 X .750-16 JIC SWIVEL | 2 |
| 29 | 00906833 0010 | FITTING, HOSE, 5/8 X 7/8-14 JIC | 3 |
| 30 | 00906843 0006 | FITTING, 3/8" HOSE X 1/4 NPT | 1 |
| 31 | 00906843 0066 | FITTING, BARB, 3/8 HOSE 3/8 NPT | 1 |
| 32 | 00906846 1616 | FITTING, ELB 1" HOSE X 1" MNPT | 1 |
| 33 | 00906953 0004 | NUT, TOPLOCK 1/4-20 18-8 S5T | 1 |
| 34 | 00906953 0006 | NUT, TOPLOCK 3/8-16 18-8 S5T | 25 |
| 35 | 00906953 0010 | NUT, TOPLOCK .625-11 18-8 S5T | 24 |
| 36 | 00906953 0012 | NUT, TOPLOCK .750-10 18-8 S5T | 2 |
| 37 | 00907224 0079 | HOSE, 1" ID HD WATER HOSE | 13 FT |
| 38 | 00907234 0406 | ADAPTER, .25 FNPT X .375 MJIC | 1 |
| 39 | 00907234 0812 | ADAPTER, .75 FNPT X .5 MJIC | 1 |
| 40 | 00907234 0813 | ADAPTER 1-1/16 TOR X 1/2 JIC | 1 |
| 41 | 00907234 1204 | ADAPTER, M12 MORB X .25 FNPT | 1 |
| 42 | 00907254 0108 | ELBOW, 1/2" NPT X 10 JIC | 1 |
| 43 | 00910337 0009 | ISOLATOR, VIBRATION | 4 |
| 44 | 00910338 0003 | WASHER, SNUBBING | 4 |
| 45 | 00910623 0008 | ADAPTER, 3/4-16 O-RING X 3/8NPT | 1 |
| 46 | 00910633 0012 | ELBOW, EXTRA LG, O-RING - 3/4 FNPT | 1 |
| 47 | 00910751 0066 | ADAPTER, 90 DEG, .375 MOAB TO JIC | 1 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|--|-----|
| 48 | 00910751 0810 | ADAPTER, ELB 90° 3/4 MORBX 5/8 JIC | 1 |
| 49 | 00910751 1010 | ADAPTER, ELB 90° 7/8 MORB X 5/8 JIC | 1 |
| 50 | 01225726 0003 | SLEEVE, RADIATOR 2-1/2 ID X 4.5 | 2 |
| 51 | 01900216 0620 | BRACKET, AIR FILTER TIE DOWN | 2 |
| 52 | 01900216 0621 | BRACKET, DEF TANK BASKET | 1 |
| 53 | 01900216 0645 | BRACKET, COOLER CAC TUBE 950+ | 1 |
| 54 | 01900216 0646 | BRACKET, CLAMP HANGER 950+ | 4 |
| 55 | 01900702 0163 | GUARD, BELT ROAD CAT T4 950+ | 1 |
| 56 | 01900702 0164 | GUARD, BELT CURB CAT T4 950+ | 1 |
| 57 | 01901000 0984 | PANEL, EXHAUST ACCESS T3 950+ | 1 |
| 58 | 01901174 0001 | PROBE, COOLANT LEVEL | 1 |
| 59 | 01901480 0054 | STRAP, HANGING CLAMP 3.80 ID | 2 |
| 60 | 01901492 0012 | SLEEVE, 3.00 ID X 3.50 OD X 4.00 LONG | 2 |
| 61 | 01901561 0015 | TUBE, CEM CAC TUBE C15 T4F | 1 |
| 62 | 01901564 0131 | TUBE, JW BOTTOM C15 T4 | 1 |
| 63 | 01901564 0132 | TUBE, JW TOP C15 T4 | 1 |
| 64 | 01901569 0056 | TUBE, CAC BOTTOM C15 T4 | 1 |
| 65 | 01901569 0057 | TUBE, CAC TOP A C15 T4 | 1 |
| 66 | 01901569 0058 | TUBE, CAC TOP B C15 T4 | 1 |
| 67 | 01901571 0052 | TUBE, EXHAUST 5.00 OD C15 T4F | 1 |
| 68 | 03139185 0730 | COVER, BATTERY TERMINAL POSITIVE | 2 |
| 69 | 03139185 0731 | COVER, BATTERY TERMINAL NEGATIVE | 4 |
| 70 | 03903464 0232 | SUPPORT, REAR CURB C15 T4 | 1 |
| 71 | 03903464 0233 | SUPPORT, REAR ROAD C15 T4 | 1 |
| 72 | 03903464 0234 | SUPPORT, REAR ENG PLT C15 T4 | 2 |
| 73 | 03903464 0235 | SUPPORT, FRONT C15 T4 | 1 |
| 74 | 03903488 0080 | TUBE, CAT RADIATOR CONNECTION | 1 |
| 75 | 05017420 0068 | CABLE, NEGATIVE BATTERY | 1 |
| 76 | 05017420 0071 | CABLE, STARTER GROUND TO ENGINE BLOCK GROUND | 1 |
| 77 | 05017420 0078 | CABLE, BATT POS 39.00 | 1 |
| 78 | 05017570 0037 | CLAMP, CONST TORQUE 3-3/8 - 4-5/8 | 12 |
| 79 | 05017570 0039 | CLAMP, CONST TORQUE 2-3/4 X 3-5/8 | 4 |
| 80 | 05017570 0040 | CLAMP, CONST TORQUE 2-1/4 - 3-1/8 | 4 |
| 81 | 05017570 0045 | CLAMP, CONST TORQUE, 1-3/4 - 2-5/8 | 8 |
| 82 | 05017570 0056 | CLAMP, CON TORQUE 4.75 - 5.625 | 8 |
| 83 | 05017990 0185 | ENGINE, CAT C15 T4F | 1 |
| 84 | 05018231 0049 | FITTING, BARB, 500 x .4375 JIC | 2 |
| NS | 05018395 0251 | HARNES, C15T4 TO JUCTION (NOT SHOWN) | 1 |
| 86 | 05018503 0007 | HOSE, 4" ID CAC CONNECTOR | 3 |
| 87 | 05018503 0009 | HOSE, 5 ID CAC CONNECTOR | 2 |
| 88 | 05018504 0002 | ELBOW, SILICON 1.75 CAC | 2 |
| 89 | 05018660 0021 | LEAD, STARTER TO GROUND | 1 |
| 90 | 05018660 0064 | LEAD WIRE, 6 GA. X 15.00 RED | 1 |
| 91 | 05018660 0065 | LEAD WIRE, 6 GA. X 45.00 RED | 1 |
| 92 | 05018660 0066 | LEAD WIRE, 6GA 30" LG BLACK | 2 |
| 93 | 05019395 0002 | SUPPORT, PIPE, UNIVERSAL | 1 |
| 94 | 09821-003 | VALVE, BALL 1-1/16 MSAEX 3/4 FNPT | 1 |

0717585 0253 ENGINE ASSEMBLY-540HP

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|----------------|---|-------|
| 1 | 00519136 0009 | CAP, RAIN 5.00 | 1 |
| 2 | 00519470 0004 | CLAMP, EXHAUST 4" | 1 |
| 3 | 00519470 0012 | CLAMP, EXHAUST 5.00 GUILLOTINE | 1 |
| 4 | 009000112 0013 | BOLT, HEX 3/8-16 X 1 GR8 | 6 |
| 5 | 009000112 0023 | BOLT, HEX .3750-16 X 1.250 GR8 | 7 |
| 6 | 009000112 0033 | BOLT, HEX 3/8-16 X 1 1/2 GR8 | 8 |
| 7 | 009000112 0053 | BOLT, HEX .3750-16 X 2.000 GR8 | 4 |
| 8 | 00900112 0054 | SCREW, 1/2-13 X 2" LG GD 8 | 6 |
| 9 | 009000112 0055 | BOLT, HEX 5/8-11 X 2" GR8 | 24 |
| 10 | 00900112 0096 | BOLT, HEX 3/4-10 X 3 GR8 | 2 |
| 11 | 009000112 0508 | BOLT, HEX 1-8 X 6-1/2 LG GR5 | 4 |
| 12 | 009000305 0004 | WASHER, LOCK .500 ZINC PLATED | 6 |
| 13 | 009000324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 1 |
| 14 | 009000324 0009 | WASHER, FLAT 3/8 SAE STD | 42 |
| 15 | 009000324 0013 | WASHER, FLAT .6250 SAE STD | 48 |
| 16 | 009000324 0015 | WASHER, FLAT 3/4 SAE STD | 4 |
| 17 | 009000324 0017 | WASHER, FLAT 1.00 SAE STD | 4 |
| 18 | 009000391 0002 | BOLT, TPHMS .250-20 X .750 S5 W NYL | 1 |
| 19 | 009000490 0125 | NUT, NYL OK 1-8 ZINC PLATED | 4 |
| 20 | 00902239 0821 | SCREW, 5/8-11 X 1-1/2" LG SHCS | 8 |
| 21 | 00902319 0005 | CLAMP, HOSE 13/16 X 1-1/2 | 4 |
| 22 | 00902905 0006 | CLAMP, SUPPORT .94 ID | 33 |
| 23 | 00906156 1034 | NIPPLE, HOSE BAND-IT 1.00 ID HOSE X .750 MNPT | 2 |
| 24 | 00906771 0114 | SCREW, THUMB 1/4-20 X 1" S5 | 4 |
| 25 | 00906814 0006 | HOSE, 3/8" ID 250 PSI | 5 FT |
| 26 | 00906814 0008 | HOSE, 1/2" ID 300 PSI | 28 FT |
| 27 | 00906814 0017 | HOSE, 5/8" ID 250 PSI GRN | 33 FT |
| 28 | 00906833 0008 | BARB, HOSE, .500 X .750-16 JIC SWIVEL | 2 |
| 29 | 00906833 0010 | FITTING, HOSE, 5/8 X 7/8-14 JIC | 3 |
| 30 | 00906843 0006 | FITTING, 3/8" HOSE X 1/4 NPT | 1 |
| 31 | 00906843 0066 | FITTING, BARB, 3/8 HOSE 3/8 NPT | 1 |
| 32 | 00906846 1616 | FITTING, ELB 1" HOSE X 1" MNPT | 1 |
| 33 | 00906953 0004 | NUT, TOPLOCK 1/4-20 18-8 S5T | 1 |
| 34 | 00906953 0006 | NUT, TOPLOCK 3/8-16 18-8 S5T | 25 |
| 35 | 00906953 0010 | NUT, TOPLOCK .625-11 18-8 S5T | 24 |
| 36 | 00906953 0012 | NUT, TOPLOCK .750-10 18-8 S5T | 2 |
| 37 | 00907224 0079 | HOSE, 1" ID HD WATER HOSE | 13 FT |
| 38 | 00907234 0406 | ADAPTER, .25 FNPT X .375 MJIC | 1 |
| 39 | 00907234 0812 | ADAPTER, .75 FNPT X .5 MJIC | 1 |
| 40 | 00907234 0813 | ADAPTER 1-1/16 TOR X 1/2 JIC | 1 |
| 41 | 00907234 1204 | ADAPTER, M12 MORB X .25 FNPT | 1 |
| 42 | 00907254 0108 | ELBOW, 1/2" NPT X 10 JIC | 1 |
| 43 | 00910337 0009 | ISOLATOR, VIBRATION | 4 |
| 44 | 00910338 0003 | WASHER, SNUBBING | 4 |
| 45 | 00910623 0008 | ADAPTER, 3/4-16 O-RING X 3/8NPT | 1 |
| 46 | 00910633 0012 | ELBOW, EXTRA LG, O-RING - 3/4 FNPT | 1 |
| 47 | 00910751 0066 | ADAPTER, 90 DEG, .375 MOAB TO JIC | 1 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|--|-----|
| 48 | 00910751 0810 | ADAPTER, ELB 90° 3/4 MORBX 5/8 JIC | 1 |
| 49 | 00910751 1010 | ADAPTER, ELB 90° 7/8 MORB X 5/8 JIC | 1 |
| 50 | 01225726 0003 | SLEEVE, RADIATOR 2-1/2 ID X 4.5 | 2 |
| 51 | 01900216 0620 | BRACKET, AIR FILTER TIE DOWN | 2 |
| 52 | 01900216 0621 | BRACKET, DEF TANK BASKET | 1 |
| 53 | 01900216 0645 | BRACKET, COOLER CAC TUBE 950+ | 1 |
| 54 | 01900216 0646 | BRACKET, CLAMP HANGER 950+ | 4 |
| 55 | 01900702 0163 | GUARD, BELT ROAD CAT T4 950+ | 1 |
| 56 | 01900702 0164 | GUARD, BELT CURB CAT T4 950+ | 1 |
| 57 | 01901000 0984 | PANEL, EXHAUST ACCESS T3 950+ | 1 |
| 58 | 01901174 0001 | PROBE, COOLANT LEVEL | 1 |
| 59 | 01901480 0054 | STRAP, HANGING CLAMP 3.80 ID | 2 |
| 60 | 01901492 0012 | SLEEVE, 3.00 ID X 3.50 OD X 4.00 LONG | 2 |
| 61 | 01901561 0015 | TUBE, CEM CAC TUBE C15 T4F | 1 |
| 62 | 01901564 0131 | TUBE, JW BOTTOM C15 T4 | 1 |
| 63 | 01901564 0132 | TUBE, JW TOP C15 T4 | 1 |
| 64 | 01901569 0056 | TUBE, CAC BOTTOM C15 T4 | 1 |
| 65 | 01901569 0057 | TUBE, CAC TOP A C15 T4 | 1 |
| 66 | 01901569 0058 | TUBE, CAC TOP B C15 T4 | 1 |
| 67 | 01901571 0052 | TUBE, EXHAUST 5.00 OD C15 T4F | 1 |
| 68 | 03139185 0730 | COVER, BATTERY TERMINAL POSITIVE | 2 |
| 69 | 03139185 0731 | COVER, BATTERY TERMINAL NEGATIVE | 4 |
| 70 | 03903464 0232 | SUPPORT, REAR CURB C15 T4 | 1 |
| 71 | 03903464 0233 | SUPPORT, REAR ROAD C15 T4 | 1 |
| 72 | 03903464 0234 | SUPPORT, REAR ENG PLT C15 T4 | 2 |
| 73 | 03903464 0235 | SUPPORT, FRONT C15 T4 | 1 |
| 74 | 03903488 0080 | TUBE, CAT RADIATOR CONNECTION | 1 |
| 75 | 05017420 0068 | CABLE, NEGATIVE BATTERY | 1 |
| 76 | 05017420 0071 | CABLE, STARTER GROUND TO ENGINE BLOCK GROUND | 1 |
| 77 | 05017420 0078 | CABLE, BATT POS 39.00 | 1 |
| 78 | 05017570 0037 | CLAMP, CONST TORQUE 3-3/8 - 4-5/8 | 12 |
| 79 | 05017570 0039 | CLAMP, CONST TORQUE 2-3/4 X 3-5/8 | 4 |
| 80 | 05017570 0040 | CLAMP, CONST TORQUE 2-1/4 - 3-1/8 | 4 |
| 81 | 05017570 0045 | CLAMP, CONST TORQUE, 1-3/4 - 2-5/8 | 8 |
| 82 | 05017570 0056 | CLAMP, CON TORQUE 4.75 - 5.625 | 8 |
| 83 | 05017990 0185 | ENGINE, CAT C15 T4F | 1 |
| 84 | 05018231 0049 | FITTING, BARB, 500 x .4375 JIC | 2 |
| NS | 05018395 0251 | HARNES, C15T4 TO JUCTION (NOT SHOWN) | 1 |
| 86 | 05018503 0007 | HOSE, 4" ID CAC CONNECTOR | 3 |
| 87 | 05018503 0009 | HOSE, 5 ID CAC CONNECTOR | 2 |
| 88 | 05018504 0002 | ELBOW, SILICON 1.75 CAC | 2 |
| 89 | 05018660 0021 | LEAD, STARTER TO GROUND | 1 |
| 90 | 05018660 0064 | LEAD WIRE, 6 GA. X 15.00 RED | 1 |
| 91 | 05018660 0065 | LEAD WIRE, 6 GA. X 45.00 RED | 1 |
| 92 | 05018660 0066 | LEAD WIRE, 6GA 30" LG BLACK | 2 |
| 93 | 05019395 0002 | SUPPORT, PIPE, UNIVERSAL | 1 |
| 94 | 09821-003 | VALVE, BALL 1-1/16 MSAEX 3/4 FNPT | 1 |

ENGINE ASSEMBLY-540HP (CONTINUED)

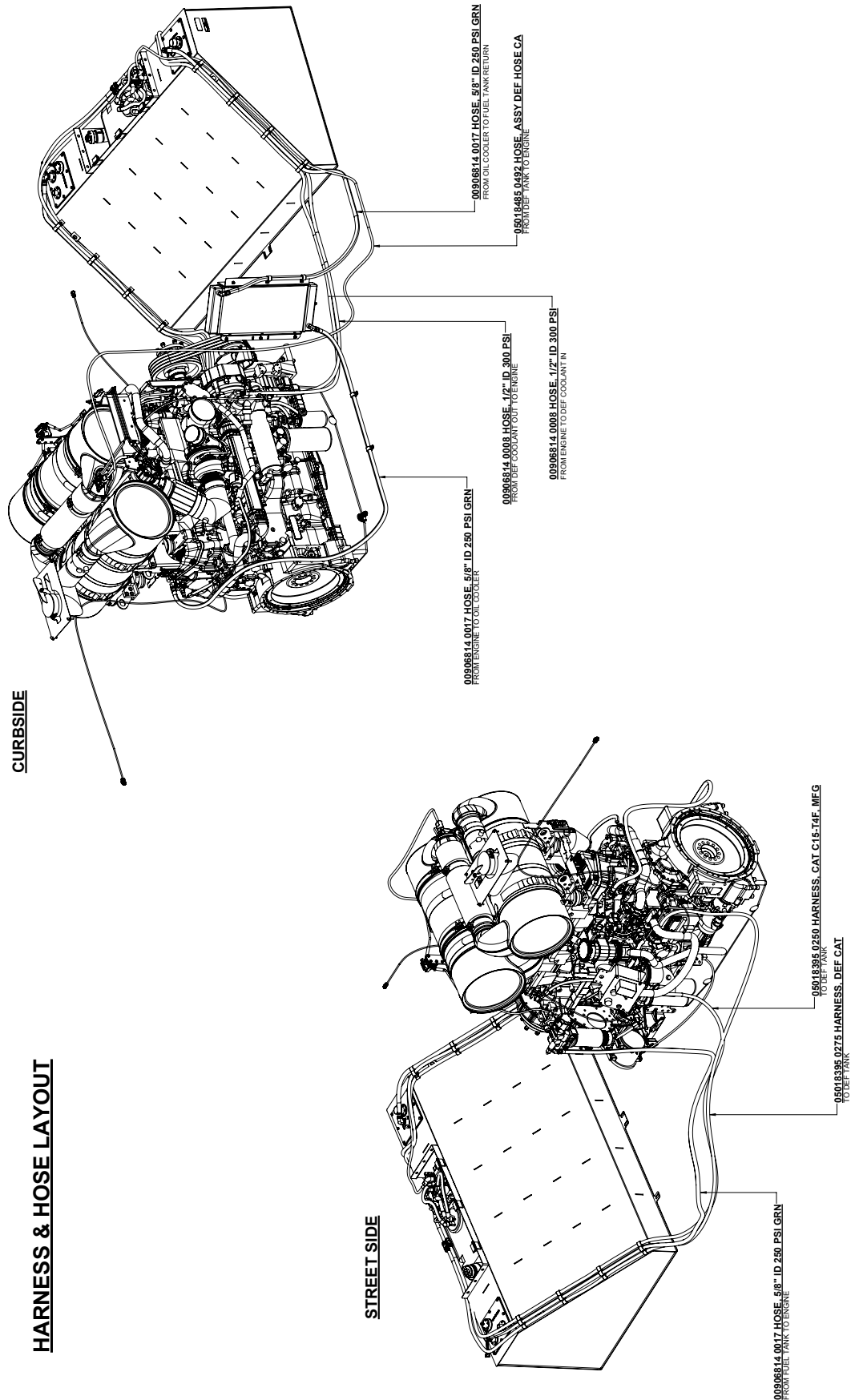


FIGURE 8-3. 00717585 0253 (REV 04)

0717585 0253 ENGINE ASSEMBLY-540HP

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|----------------|---|-------|
| 1 | 00519136 0009 | CAP, RAIN 5.00 | 1 |
| 2 | 00519470 0004 | CLAMP, EXHAUST 4" | 1 |
| 3 | 00519470 0012 | CLAMP, EXHAUST 5.00 GUILLOTINE | 1 |
| 4 | 009000112 0013 | BOLT, HEX 3/8-16 X 1 GR8 | 6 |
| 5 | 009000112 0023 | BOLT, HEX .3750-16 X 1.250 GR8 | 7 |
| 6 | 009000112 0033 | BOLT, HEX 3/8-16 X 1 1/2 GR8 | 8 |
| 7 | 009000112 0053 | BOLT, HEX .3750-16 X 2.000 GR8 | 4 |
| 8 | 00900112 0054 | SCREW, 1/2-13 X 2" LG GD 8 | 6 |
| 9 | 009000112 0055 | BOLT, HEX 5/8-11 X 2" GR8 | 24 |
| 10 | 00900112 0096 | BOLT, HEX 3/4-10 X 3 GR8 | 2 |
| 11 | 009000112 0508 | BOLT, HEX 1-8 X 6-1/2 LG GR5 | 4 |
| 12 | 009000305 0004 | WASHER, LOCK .500 ZINC PLATED | 6 |
| 13 | 009000324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 1 |
| 14 | 009000324 0009 | WASHER, FLAT 3/8 SAE STD | 42 |
| 15 | 009000324 0013 | WASHER, FLAT .6250 SAE STD | 48 |
| 16 | 009000324 0015 | WASHER, FLAT 3/4 SAE STD | 4 |
| 17 | 009000324 0017 | WASHER, FLAT 1.00 SAE STD | 4 |
| 18 | 009000391 0002 | BOLT, TP HMS .250-20 X .750 S5 W NYL | 1 |
| 19 | 009000490 0125 | NUT, NYL OK 1-8 ZINC PLATED | 4 |
| 20 | 00902239 0821 | SCREW, 5/8-11 X 1-1/2" LG SHCS | 8 |
| 21 | 00902319 0005 | CLAMP, HOSE 13/16 X 1-1/2 | 4 |
| 22 | 00902905 0006 | CLAMP, SUPPORT .94 ID | 33 |
| 23 | 00906156 1034 | NIPPLE, HOSE BAND-IT 1.00 ID HOSE X .750 MNPT | 2 |
| 24 | 00906771 0114 | SCREW, THUMB 1/4-20 X 1" S5 | 4 |
| 25 | 00906814 0006 | HOSE, 3/8" ID 250 PSI | 5 FT |
| 26 | 00906814 0008 | HOSE, 1/2" ID 300 PSI | 28 FT |
| 27 | 00906814 0017 | HOSE, 5/8" ID 250 PSI GRN | 33 FT |
| 28 | 00906833 0008 | BARB, HOSE, .500 X .750-16 JIC SWIVEL | 2 |
| 29 | 00906833 0010 | FITTING, HOSE, 5/8 X 7/8-14 JIC | 3 |
| 30 | 00906843 0006 | FITTING, 3/8" HOSE X 1/4 NPT | 1 |
| 31 | 00906843 0066 | FITTING, BARB, 3/8 HOSE 3/8 NPT | 1 |
| 32 | 00906846 1616 | FITTING, ELB 1" HOSE X 1" MNPT | 1 |
| 33 | 00906953 0004 | NUT, TOPLOCK 1/4-20 18-8 S5T | 1 |
| 34 | 00906953 0006 | NUT, TOPLOCK 3/8-16 18-8 S5T | 25 |
| 35 | 00906953 0010 | NUT, TOPLOCK .625-11 18-8 S5T | 24 |
| 36 | 00906953 0012 | NUT, TOPLOCK .750-10 18-8 S5T | 2 |
| 37 | 00907224 0079 | HOSE, 1" ID HD WATER HOSE | 13 FT |
| 38 | 00907234 0406 | ADAPTER, .25 FNPT X .375 MJIC | 1 |
| 39 | 00907234 0812 | ADAPTER, .75 FNPT X .5 MJIC | 1 |
| 40 | 00907234 0813 | ADAPTER 1-1/16 TOR X 1/2 JIC | 1 |
| 41 | 00907234 1204 | ADAPTER, M12 MORB X .25 FNPT | 1 |
| 42 | 00907254 0108 | ELBOW, 1/2" NPT X 10 JIC | 1 |
| 43 | 00910337 0009 | ISOLATOR, VIBRATION | 4 |
| 44 | 00910338 0003 | WASHER, SNUBBING | 4 |
| 45 | 00910623 0008 | ADAPTER, 3/4-16 O-RING X 3/8NPT | 1 |
| 46 | 00910633 0012 | ELBOW, EXTRA LG, O-RING - 3/4 FNPT | 1 |
| 47 | 00910751 0066 | ADAPTER, 90 DEG, .375 MOAB TO JIC | 1 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|--|-----|
| 48 | 00910751 0810 | ADAPTER, ELB 90° 3/4 MORBX 5/8 JIC | 1 |
| 49 | 00910751 1010 | ADAPTER, ELB 90° 7/8 MORB X 5/8 JIC | 1 |
| 50 | 01225726 0003 | SLEEVE, RADIATOR 2-1/2 ID X 4.5 | 2 |
| 51 | 01900216 0620 | BRACKET, AIR FILTER TIE DOWN | 2 |
| 52 | 01900216 0621 | BRACKET, DEF TANK BASKET | 1 |
| 53 | 01900216 0645 | BRACKET, COOLER CAC TUBE 950+ | 1 |
| 54 | 01900216 0646 | BRACKET, CLAMP HANGER 950+ | 4 |
| 55 | 01900702 0163 | GUARD, BELT ROAD CAT T4 950+ | 1 |
| 56 | 01900702 0164 | GUARD, BELT CURB CAT T4 950+ | 1 |
| 57 | 01901000 0984 | PANEL, EXHAUST ACCESS T3 950+ | 1 |
| 58 | 01901174 0001 | PROBE, COOLANT LEVEL | 1 |
| 59 | 01901480 0054 | STRAP, HANGING CLAMP 3.80 ID | 2 |
| 60 | 01901492 0012 | SLEEVE, 3.00 ID X 3.50 OD X 4.00 LONG | 2 |
| 61 | 01901561 0015 | TUBE, CEM CAC TUBE C15 T4F | 1 |
| 62 | 01901564 0131 | TUBE, JW BOTTOM C15 T4 | 1 |
| 63 | 01901564 0132 | TUBE, JW TOP C15 T4 | 1 |
| 64 | 01901569 0056 | TUBE, CAC BOTTOM C15 T4 | 1 |
| 65 | 01901569 0057 | TUBE, CAC TOP A C15 T4 | 1 |
| 66 | 01901569 0058 | TUBE, CAC TOP B C15 T4 | 1 |
| 67 | 01901571 0052 | TUBE, EXHAUST 5.00 OD C15 T4F | 1 |
| 68 | 03139185 0730 | COVER, BATTERY TERMINAL POSITIVE | 2 |
| 69 | 03139185 0731 | COVER, BATTERY TERMINAL NEGATIVE | 4 |
| 70 | 03903464 0232 | SUPPORT, REAR CURB C15 T4 | 1 |
| 71 | 03903464 0233 | SUPPORT, REAR ROAD C15 T4 | 1 |
| 72 | 03903464 0234 | SUPPORT, REAR ENG PLT C15 T4 | 2 |
| 73 | 03903464 0235 | SUPPORT, FRONT C15 T4 | 1 |
| 74 | 03903488 0080 | TUBE, CAT RADIATOR CONNECTION | 1 |
| 75 | 05017420 0068 | CABLE, NEGATIVE BATTERY | 1 |
| 76 | 05017420 0071 | CABLE, STARTER GROUND TO ENGINE BLOCK GROUND | 1 |
| 77 | 05017420 0078 | CABLE, BATT POS 39.00 | 1 |
| 78 | 05017570 0037 | CLAMP, CONST TORQUE 3-3/8 - 4-5/8 | 12 |
| 79 | 05017570 0039 | CLAMP, CONST TORQUE 2-3/4 X 3-5/8 | 4 |
| 80 | 05017570 0040 | CLAMP, CONST TORQUE 2-1/4 - 3-1/8 | 4 |
| 81 | 05017570 0045 | CLAMP, CONST TORQUE, 1-3/4 - 2-5/8 | 8 |
| 82 | 05017570 0056 | CLAMP, CON TORQUE 4.75 - 5.625 | 8 |
| 83 | 05017990 0185 | ENGINE, CAT C15 T4F | 1 |
| 84 | 05018231 0049 | FITTING, BARB, 500 x .4375 JIC | 2 |
| NS | 05018395 0251 | HARNES, C15T4 TO JUCTION (NOT SHOWN) | 1 |
| 86 | 05018503 0007 | HOSE, 4" ID CAC CONNECTOR | 3 |
| 87 | 05018503 0009 | HOSE, 5 ID CAC CONNECTOR | 2 |
| 88 | 05018504 0002 | ELBOW, SILICON 1.75 CAC | 2 |
| 89 | 05018660 0021 | LEAD, STARTER TO GROUND | 1 |
| 90 | 05018660 0064 | LEAD WIRE, 6 GA. X 15.00 RED | 1 |
| 91 | 05018660 0065 | LEAD WIRE, 6 GA. X 45.00 RED | 1 |
| 92 | 05018660 0066 | LEAD WIRE, 6GA 30" LG BLACK | 2 |
| 93 | 05019395 0002 | SUPPORT, PIPE, UNIVERSAL | 1 |
| 94 | 09821-003 | VALVE, BALL 1-1/16 MSAEX 3/4 FNPT | 1 |

ENGINE ASSEMBLY-540HP (CONTINUED)

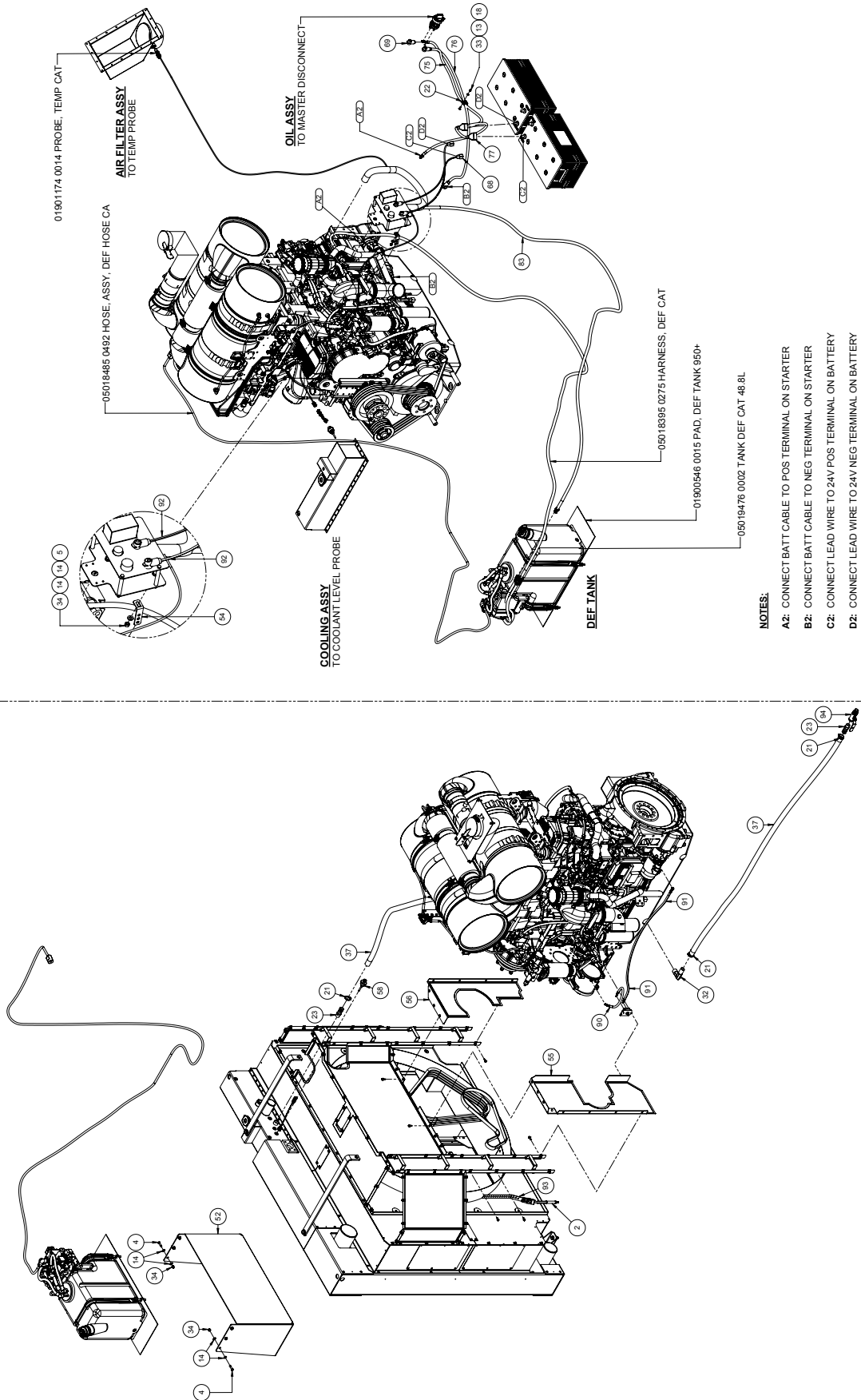


FIGURE 8-4. 00717585 0253 (REV 04)

0717585 0253 ENGINE ASSEMBLY-540HP

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|----------------|---|-------|
| 1 | 00519136 0009 | CAP, RAIN 5.00 | 1 |
| 2 | 00519470 0004 | CLAMP, EXHAUST 4" | 1 |
| 3 | 00519470 0012 | CLAMP, EXHAUST 5.00 GUILLOTINE | 1 |
| 4 | 009000112 0013 | BOLT, HEX 3/8-16 X 1 GR8 | 6 |
| 5 | 009000112 0023 | BOLT, HEX .3750-16 X 1.250 GR8 | 7 |
| 6 | 009000112 0033 | BOLT, HEX 3/8-16 X 1 1/2 GR8 | 8 |
| 7 | 009000112 0053 | BOLT, HEX .3750-16 X 2.000 GR8 | 4 |
| 8 | 00900112 0054 | SCREW, 1/2-13 X 2" LG GD 8 | 6 |
| 9 | 009000112 0055 | BOLT, HEX 5/8-11 X 2" GR8 | 24 |
| 10 | 00900112 0096 | BOLT, HEX 3/4-10 X 3 GR8 | 2 |
| 11 | 009000112 0508 | BOLT, HEX 1-8 X 6-1/2 LG GR5 | 4 |
| 12 | 009000305 0004 | WASHER, LOCK .500 ZINC PLATED | 6 |
| 13 | 009000324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 1 |
| 14 | 009000324 0009 | WASHER, FLAT 3/8 SAE STD | 42 |
| 15 | 009000324 0013 | WASHER, FLAT .6250 SAE STD | 48 |
| 16 | 009000324 0015 | WASHER, FLAT 3/4 SAE STD | 4 |
| 17 | 009000324 0017 | WASHER, FLAT 1.00 SAE STD | 4 |
| 18 | 009000391 0002 | BOLT, TPHMS .250-20 X .750 S5 W NYL | 1 |
| 19 | 00900490 0125 | NUT, NYL OK 1-8 ZINC PLATED | 4 |
| 20 | 00902239 0821 | SCREW, 5/8-11 X 1-1/2" LG SHCS | 8 |
| 21 | 00902319 0005 | CLAMP, HOSE 13/16 X 1-1/2 | 4 |
| 22 | 00902905 0006 | CLAMP, SUPPORT .94 ID | 33 |
| 23 | 00906156 1034 | NIPPLE, HOSE BAND-IT 1.00 ID HOSE X .750 MNPT | 2 |
| 24 | 00906771 0114 | SCREW, THUMB 1/4-20 X 1" S5 | 4 |
| 25 | 00906881 0006 | HOSE, 3/8" ID 250 PSI | 5 FT |
| 26 | 00906881 0008 | HOSE, 1/2" ID 300 PSI | 28 FT |
| 27 | 00906881 0017 | HOSE, 5/8" ID 250 PSI GRN | 33 FT |
| 28 | 00906883 0008 | BARB, HOSE, .500 X .750-16 JIC SWIVEL | 2 |
| 29 | 00906883 0010 | FITTING, HOSE, 5/8 X 7/8-14 JIC | 3 |
| 30 | 00906883 0006 | FITTING, 3/8" HOSE X 1/4 NPT | 1 |
| 31 | 00906883 0066 | FITTING, BARB, 3/8 HOSE 3/8 NPT | 1 |
| 32 | 00906884 1616 | FITTING, ELB 1" HOSE X 1" MNPT | 1 |
| 33 | 00906953 0004 | NUT, TOPLOCK 1/4-20 18-8 S5T | 1 |
| 34 | 00906953 0006 | NUT, TOPLOCK 3/8-16 18-8 S5T | 25 |
| 35 | 00906953 0010 | NUT, TOPLOCK .625-11 18-8 S5T | 24 |
| 36 | 00906953 0012 | NUT, TOPLOCK .750-10 18-8 S5T | 2 |
| 37 | 00907224 0079 | HOSE, 1" ID HD WATER HOSE | 13 FT |
| 38 | 00907234 0406 | ADAPTER, .25 FNPT X .375 M JIC | 1 |
| 39 | 00907234 0812 | ADAPTER, .75 FNPT X .5 M JIC | 1 |
| 40 | 00907234 0813 | ADAPTER 1-1/16 TOR X 1/2 JIC | 1 |
| 41 | 00907234 1204 | ADAPTER, M12 MORB X .25 FNPT | 1 |
| 42 | 00907254 0108 | ELBOW, 1/2" NPT X 10 JIC | 1 |
| 43 | 00910337 0009 | ISOLATOR, VIBRATION | 4 |
| 44 | 00910338 0003 | WASHER, SNUBBING | 4 |
| 45 | 00910623 0008 | ADAPTER, 3/4-16 O-RING X 3/8NPT | 1 |
| 46 | 00910633 0012 | ELBOW, EXTRA LG, O-RING - 3/4 FNPT | 1 |
| 47 | 00910751 0066 | ADAPTER, 90 DEG, .375 MOAB TO JIC | 1 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|--|-----|
| 48 | 00910751 0810 | ADAPTER, ELB 90° 3/4 MORBX 5/8 JIC | 1 |
| 49 | 00910751 1010 | ADAPTER, ELB 90° 7/8 MORB X 5/8 JIC | 1 |
| 50 | 01225726 0003 | SLEEVE, RADIATOR 2-1/2 ID X 4.5 | 2 |
| 51 | 01900216 0620 | BRACKET, AIR FILTER TIE DOWN | 2 |
| 52 | 01900216 0621 | BRACKET, DEF TANK BASKET | 1 |
| 53 | 01900216 0645 | BRACKET, COOLER CAC TUBE 950+ | 1 |
| 54 | 01900216 0646 | BRACKET, CLAMP HANGER 950+ | 4 |
| 55 | 01900702 0163 | GUARD, BELT ROAD CAT T4 950+ | 1 |
| 56 | 01900702 0164 | GUARD, BELT CURB CAT T4 950+ | 1 |
| 57 | 01901000 0984 | PANEL, EXHAUST ACCESS T3 950+ | 1 |
| 58 | 01901174 0001 | PROBE, COOLANT LEVEL | 1 |
| 59 | 01901480 0054 | STRAP, HANGING CLAMP 3.80 ID | 2 |
| 60 | 01901492 0012 | SLEEVE, 3.00 ID X 3.50 OD X 4.00 LONG | 2 |
| 61 | 01901561 0015 | TUBE, CEM CAC TUBE C15 T4F | 1 |
| 62 | 01901564 0131 | TUBE, JW BOTTOM C15 T4 | 1 |
| 63 | 01901564 0132 | TUBE, JW TOP C15 T4 | 1 |
| 64 | 01901569 0056 | TUBE, CAC BOTTOM C15 T4 | 1 |
| 65 | 01901569 0057 | TUBE, CAC TOP A C15 T4 | 1 |
| 66 | 01901569 0058 | TUBE, CAC TOP B C15 T4 | 1 |
| 67 | 01901571 0052 | TUBE, EXHAUST 5.00 OD C15 T4F | 1 |
| 68 | 03139185 0730 | COVER, BATTERY TERMINAL POSITIVE | 2 |
| 69 | 03139185 0731 | COVER, BATTERY TERMINAL NEGATIVE | 4 |
| 70 | 03903464 0232 | SUPPORT, REAR CURB C15 T4 | 1 |
| 71 | 03903464 0233 | SUPPORT, REAR ROAD C15 T4 | 1 |
| 72 | 03903464 0234 | SUPPORT, REAR ENG PLT C15 T4 | 2 |
| 73 | 03903464 0235 | SUPPORT, FRONT C15 T4 | 1 |
| 74 | 03903488 0080 | TUBE, CAT RADIATOR CONNECTION | 1 |
| 75 | 05017420 0068 | CABLE, NEGATIVE BATTERY | 1 |
| 76 | 05017420 0071 | CABLE, STARTER GROUND TO ENGINE BLOCK GROUND | 1 |
| 77 | 05017420 0078 | CABLE, BATT POS 39.00 | 1 |
| 78 | 05017570 0037 | CLAMP, CONST TORQUE 3-3/8 - 4-5/8 | 12 |
| 79 | 05017570 0039 | CLAMP, CONST TORQUE 2-3/4 X 3-5/8 | 4 |
| 80 | 05017570 0040 | CLAMP, CONST TORQUE 2-1/4 - 3-1/8 | 4 |
| 81 | 05017570 0045 | CLAMP, CONST TORQUE 1-3/4 - 2-5/8 | 8 |
| 82 | 05017570 0056 | CLAMP, CON TORQUE 4.75 - 5.625 | 8 |
| 83 | 05017990 0185 | ENGINE, CAT C15 T4F | 1 |
| 84 | 05018231 0049 | FITTING, BARB.500 x .4375 JIC | 2 |
| NS | 05018395 0251 | HARNES, C15T4 TO JUCTION (NOT SHOWN) | 1 |
| 86 | 05018503 0007 | HOSE, 4" ID CAC CONNECTOR | 3 |
| 87 | 05018503 0009 | HOSE, 5 ID CAC CONNECTOR | 2 |
| 88 | 05018504 0002 | ELBOW, SILICON 1.75 CAC | 2 |
| 89 | 05018660 0021 | LEAD, STARTER TO GROUND | 1 |
| 90 | 05018660 0064 | LEAD WIRE, 6 GA. X 15.00 RED | 1 |
| 91 | 05018660 0065 | LEAD WIRE, 6 GA. X 45.00 RED | 1 |
| 92 | 05018660 0066 | LEAD WIRE, 6GA 30" LG BLACK | 2 |
| 93 | 05019395 0002 | SUPPORT, PIPE, UNIVERSAL | 1 |
| 94 | 09821-003 | VALVE, BALL 1-1/16 MSAEX 3/4 FNPT | 1 |

STREETSIDE

MOUNTING

CURBSIDE

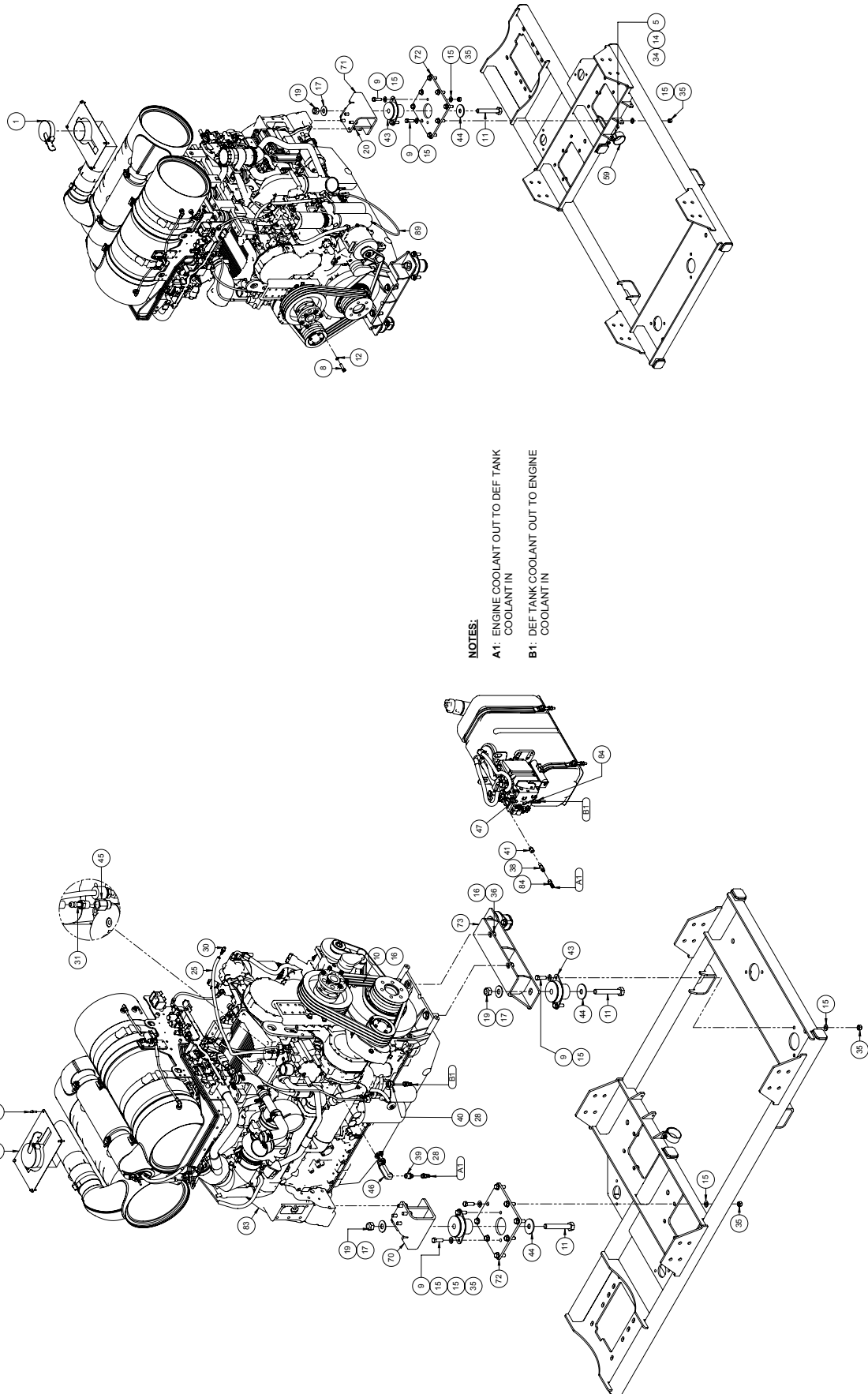


FIGURE 8-5. 00717585 0279 (REV 01)

00717585 0279 ENGINE ASSEMBLY-475HP

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|----------------|---|-------|
| 1 | 00519136 0009 | CAP, RAIN 5.00 | 1 |
| 2 | 00519470 0004 | CLAMP, EXHAUST 4" | 1 |
| 3 | 00519470 0012 | CLAMP, EXHAUST 5.00 GUILLOTINE | 1 |
| 4 | 009000112 0013 | BOLT, HEX 3/8-16 X 1 GR8 | 6 |
| 5 | 009000112 0023 | BOLT, HEX .3750-16 X 1.250 GR8 | 7 |
| 6 | 009000112 0033 | BOLT, HEX 3/8-16 X 1 1/2 GR8 | 8 |
| 7 | 009000112 0053 | BOLT, HEX .3750-16 X 2.000 GR8 | 4 |
| 8 | 00900112 0054 | SCREW, 1/2-13 X 2" LG GD 8 | 6 |
| 9 | 009000112 0055 | BOLT, HEX 5/8-11 X 2" GR8 | 24 |
| 10 | 00900112 0096 | BOLT, HEX 3/4-10 X 3 GR8 | 2 |
| 11 | 009000112 0508 | BOLT, HEX 1-8 X 6-1/2 LG GR5 | 4 |
| 12 | 009000305 0004 | WASHER, LOCK .500 ZINC PLATED | 6 |
| 13 | 009000324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 1 |
| 14 | 009000324 0009 | WASHER, FLAT 3/8 SAE STD | 42 |
| 15 | 009000324 0013 | WASHER, FLAT .6250 SAE STD | 48 |
| 16 | 009000324 0015 | WASHER, FLAT 3/4 SAE STD | 4 |
| 17 | 009000324 0017 | WASHER, FLAT 1.00 SAE STD | 4 |
| 18 | 009000391 0002 | BOLT, TPHMS .250-20 X .750 S5 W NYL | 1 |
| 19 | 009000490 0125 | NUT, NYL OK 1-8 ZINC PLATED | 4 |
| 20 | 00902239 0821 | SCREW, 5/8-11 X 1-1/2" LG SHCS | 8 |
| 21 | 00902319 0005 | CLAMP, HOSE 13/16 X 1-1/2 | 4 |
| 22 | 00902905 0006 | CLAMP, SUPPORT .94 ID | 33 |
| 23 | 00906156 1034 | NIPPLE, HOSE BAND-IT 1.00 ID HOSE X .750 MNPT | 2 |
| 24 | 00906771 0114 | SCREW, THUMB 1/4-20 X 1" S5 | 4 |
| 25 | 00906814 0006 | HOSE, 3/8" ID 250 PSI | 5 FT |
| 26 | 00906814 0008 | HOSE, 1/2" ID 300 PSI | 28 FT |
| 27 | 00906814 0017 | HOSE, 5/8" ID 250 PSI GRN | 33 FT |
| 28 | 00906833 0008 | BARB, HOSE, .500 X .750-16 JIC SWIVEL | 2 |
| 29 | 00906833 0010 | FITTING, HOSE, 5/8 X 7/8-14 JIC | 3 |
| 30 | 00906843 0006 | FITTING, 3/8" HOSE X 1/4 NPT | 1 |
| 31 | 00906843 0066 | FITTING, BARB, 3/8 HOSE 3/8 NPT | 1 |
| 32 | 00906846 1616 | FITTING, ELB 1" HOSE X 1" MNPT | 1 |
| 33 | 00906953 0004 | NUT, TOPLOCK 1/4-20 18-8 S5T | 1 |
| 34 | 00906953 0006 | NUT, TOPLOCK 3/8-16 18-8 S5T | 25 |
| 35 | 00906953 0010 | NUT, TOPLOCK .625-11 18-8 S5T | 24 |
| 36 | 00906953 0012 | NUT, TOPLOCK .750-10 18-8 S5T | 2 |
| 37 | 0090724 0079 | HOSE, 1" ID HD WATER HOSE | 13 FT |
| 38 | 00907234 0406 | ADAPTER, .25 FNPT X .375 MJIC | 1 |
| 39 | 00907234 0812 | ADAPTER, .75 FNPT X .5 MJIC | 1 |
| 40 | 00907234 0813 | ADAPTER 1-1/16 TOR X 1/2 JIC | 1 |
| 41 | 00907234 1204 | ADAPTER, M12 MORB X .25 FNPT | 1 |
| 42 | 00907254 0108 | ELBOW, 1/2" NPT X 10 JIC | 1 |
| 43 | 00910337 0009 | ISOLATOR, VIBRATION | 4 |
| 44 | 00910338 0003 | WASHER, SNUBBING | 4 |
| 45 | 00910623 0008 | ADAPTER, 3/4-16 O-RING X 3/8NPT | 1 |
| 46 | 00910633 0012 | ELBOW, EXTRA LG, O-RING - 3/4 FNPT | 1 |
| 47 | 00910751 0066 | ADAPTER, 90 DEG, .375 MOAB TO JIC | 1 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|--|-----|
| 48 | 00910751 0810 | ADAPTER, ELB 90° 3/4 MORBX 5/8 JIC | 1 |
| 49 | 00910751 1010 | ADAPTER, ELB 90° 7/8 MORB X 5/8 JIC | 1 |
| 50 | 01225726 0003 | SLEEVE, RADIATOR 2-1/2 ID X 4.5 | 2 |
| 51 | 01900216 0620 | BRACKET, AIR FILTER TIE DOWN | 2 |
| 52 | 01900216 0621 | BRACKET, DEF TANK BASKET | 1 |
| 53 | 01900216 0645 | BRACKET, COOLER CAC TUBE 950+ | 1 |
| 54 | 01900216 0646 | BRACKET, CLAMP HANGER 950+ | 4 |
| 55 | 01900702 0163 | GUARD, BELT ROAD CAT T4 950+ | 1 |
| 56 | 01900702 0164 | GUARD, BELT CURB CAT T4 950+ | 1 |
| 57 | 01901000 0984 | PANEL, EXHAUST ACCESS T3 950+ | 1 |
| 58 | 01901174 0001 | PROBE, COOLANT LEVEL | 1 |
| 59 | 01901480 0054 | STRAP, HANGING CLAMP 3.80 ID | 2 |
| 60 | 01901492 0012 | SLEEVE, 3.00 ID X 3.50 OD X 4.00 LONG | 2 |
| 61 | 01901561 0015 | TUBE, CEM CAC TUBE C15 T4F | 1 |
| 62 | 01901564 0131 | TUBE, JW BOTTOM C15 T4 | 1 |
| 63 | 01901564 0132 | TUBE, JW TOP C15 T4 | 1 |
| 64 | 01901569 0056 | TUBE, CAC BOTTOM C15 T4 | 1 |
| 65 | 01901569 0057 | TUBE, CAC TOP A C15 T4 | 1 |
| 66 | 01901569 0058 | TUBE, CAC TOP B C15 T4 | 1 |
| 67 | 01901571 0052 | TUBE, EXHAUST 5.00 OD C15 T4F | 1 |
| 68 | 03139185 0730 | COVER, BATTERY TERMINAL POSITIVE | 2 |
| 69 | 03139185 0731 | COVER, BATTERY TERMINAL NEGATIVE | 4 |
| 70 | 03903464 0232 | SUPPORT, REAR CURB C15 T4 | 1 |
| 71 | 03903464 0233 | SUPPORT, REAR ROAD C15 T4 | 1 |
| 72 | 03903464 0234 | SUPPORT, REAR ENG PLT C15 T4 | 2 |
| 73 | 03903464 0235 | SUPPORT, FRONT C15 T4 | 1 |
| 74 | 03903488 0080 | TUBE, CAT RADIATOR CONNECTION | 1 |
| 75 | 05017420 0068 | CABLE, NEGATIVE BATTERY | 1 |
| 76 | 05017420 0071 | CABLE, STARTER GROUND TO ENGINE BLOCK GROUND | 1 |
| 77 | 05017420 0078 | CABLE, BATT POS 39.00 | 1 |
| 78 | 05017570 0037 | CLAMP, CONST TORQUE 3-3/8 - 4-5/8 | 12 |
| 79 | 05017570 0039 | CLAMP, CONST TORQUE 2-3/4 X 3-5/8 | 4 |
| 80 | 05017570 0040 | CLAMP, CONST TORQUE 2-1/4 - 3-1/8 | 4 |
| 81 | 05017570 0045 | CLAMP, CONST TORQUE, 1-3/4 - 2-5/8 | 8 |
| 82 | 05017570 0056 | CLAMP, CON TORQUE 4.75 - 5.625 | 8 |
| 83 | 05017990 0218 | ENGINE, CAT C15 T4F, 475 HP | 1 |
| 84 | 05018231 0049 | FITTING, BARB, 500 x .4375 JIC | 2 |
| NS | 05018395 0251 | HARNES, C15T4 TO JUCTION (NOT SHOWN) | 1 |
| 86 | 05018503 0007 | HOSE, 4" ID CAC CONNECTOR | 3 |
| 87 | 05018503 0009 | HOSE, 5 ID CAC CONNECTOR | 2 |
| 88 | 05018504 0002 | ELBOW, SILICON 1.75 CAC | 2 |
| 89 | 05018660 0021 | LEAD, STARTER TO GROUND | 1 |
| 90 | 05018660 0064 | LEAD WIRE, 6 GA. X 15.00 RED | 1 |
| 91 | 05018660 0065 | LEAD WIRE, 6 GA. X 45.00 RED | 1 |
| 92 | 05018660 0066 | LEAD WIRE, 6GA 30" LG BLACK | 2 |
| 93 | 05019395 0002 | SUPPORT, PIPE, UNIVERSAL | 1 |
| 94 | 09821-003 | VALVE, BALL 1-1/16 MSAEX 3/4 FNPT | 1 |

ENGINE ASSEMBLY-475HP (CONTINUED)

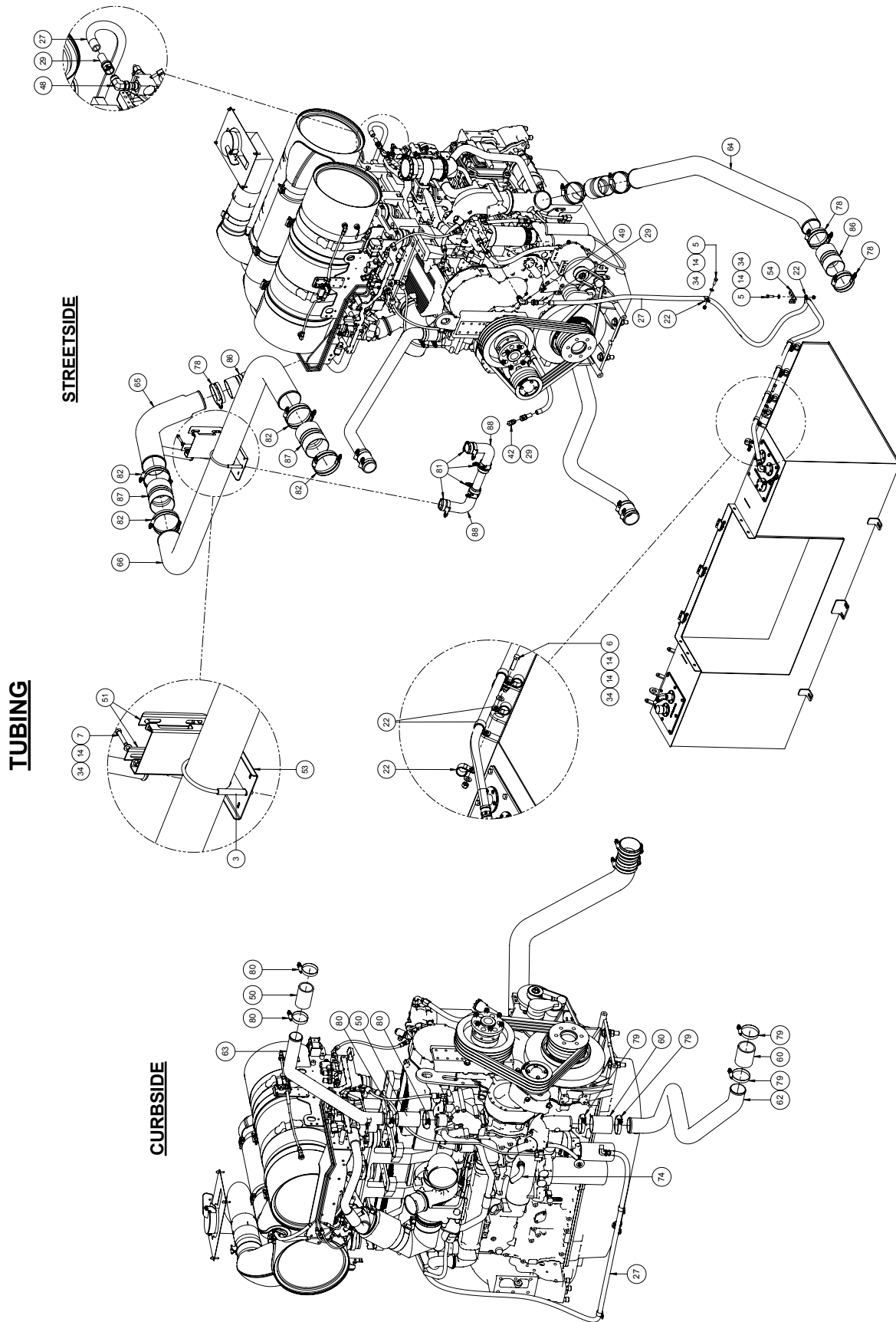


FIGURE 8-6. 00717585 0279 (REV 01)

00717585 0279 ENGINE ASSEMBLY-475HP

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|----------------|---|-------|
| 1 | 00519136 0009 | CAP, RAIN 5.00 | 1 |
| 2 | 00519470 0004 | CLAMP, EXHAUST 4" | 1 |
| 3 | 00519470 0012 | CLAMP, EXHAUST 5.00 GUILLOTINE | 1 |
| 4 | 009000112 0013 | BOLT, HEX 3/8-16 X 1 GR8 | 6 |
| 5 | 009000112 0023 | BOLT, HEX .3750-16 X 1.250 GR8 | 7 |
| 6 | 009000112 0033 | BOLT, HEX 3/8-16 X 1 1/2 GR8 | 8 |
| 7 | 009000112 0053 | BOLT, HEX .3750-16 X 2.000 GR8 | 4 |
| 8 | 00900112 0054 | SCREW, 1/2-13 X 2" LG GD 8 | 6 |
| 9 | 009000112 0055 | BOLT, HEX 5/8-11 X 2" GR8 | 24 |
| 10 | 00900112 0096 | BOLT, HEX 3/4-10 X 3 GR8 | 2 |
| 11 | 009000112 0508 | BOLT, HEX 1-8 X 6-1/2 LG GR5 | 4 |
| 12 | 009000305 0004 | WASHER, LOCK .500 ZINC PLATED | 6 |
| 13 | 009000324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 1 |
| 14 | 009000324 0009 | WASHER, FLAT 3/8 SAE STD | 42 |
| 15 | 009000324 0013 | WASHER, FLAT .6250 SAE STD | 48 |
| 16 | 009000324 0015 | WASHER, FLAT 3/4 SAE STD | 4 |
| 17 | 009000324 0017 | WASHER, FLAT 1.00 SAE STD | 4 |
| 18 | 009000391 0002 | BOLT, TPHMS .250-20 X .750 S5 W NYL | 1 |
| 19 | 009000490 0125 | NUT, NYL OK 1-8 ZINC PLATED | 4 |
| 20 | 00902239 0821 | SCREW, 5/8-11 X 1-1/2" LG SHCS | 8 |
| 21 | 00902319 0005 | CLAMP, HOSE 13/16 X 1-1/2 | 4 |
| 22 | 00902905 0006 | CLAMP, SUPPORT .94 ID | 33 |
| 23 | 00906156 1034 | NIPPLE, HOSE BAND-IT 1.00 ID HOSE X .750 MNPT | 2 |
| 24 | 00906771 0114 | SCREW, THUMB 1/4-20 X 1" S5 | 4 |
| 25 | 00906814 0006 | HOSE, 3/8" ID 250 PSI | 5 FT |
| 26 | 00906814 0008 | HOSE, 1/2" ID 300 PSI | 28 FT |
| 27 | 00906814 0017 | HOSE, 5/8" ID 250 PSI GRN | 33 FT |
| 28 | 00906833 0008 | BARB, HOSE, .500 X .750-16 JIC SWIVEL | 2 |
| 29 | 00906833 0010 | FITTING, HOSE, 5/8 X 7/8-14 JIC | 3 |
| 30 | 00906843 0006 | FITTING, 3/8" HOSE X 1/4 NPT | 1 |
| 31 | 00906843 0066 | FITTING, BARB, 3/8 HOSE 3/8 NPT | 1 |
| 32 | 00906846 1616 | FITTING, ELB 1" HOSE X 1" MNPT | 1 |
| 33 | 00906953 0004 | NUT, TOPLOCK 1/4-20 18-8 S5T | 1 |
| 34 | 00906953 0006 | NUT, TOPLOCK 3/8-16 18-8 S5T | 25 |
| 35 | 00906953 0010 | NUT, TOPLOCK .625-11 18-8 S5T | 24 |
| 36 | 00906953 0012 | NUT, TOPLOCK .750-10 18-8 S5T | 2 |
| 37 | 00907224 0079 | HOSE, 1" ID HD WATER HOSE | 13 FT |
| 38 | 00907234 0406 | ADAPTER, .25 FNPT X .375 MJIC | 1 |
| 39 | 00907234 0812 | ADAPTER, .75 FNPT X .5 MJIC | 1 |
| 40 | 00907234 0813 | ADAPTER 1-1/16 TOR X 1/2 JIC | 1 |
| 41 | 00907234 1204 | ADAPTER, M12 MORB X .25 FNPT | 1 |
| 42 | 00907254 0108 | ELBOW, 1/2" NPT X 10 JIC | 1 |
| 43 | 00910337 0009 | ISOLATOR, VIBRATION | 4 |
| 44 | 00910338 0003 | WASHER, SNUBBING | 4 |
| 45 | 00910623 0008 | ADAPTER, 3/4-16 O-RING X 3/8NPT | 1 |
| 46 | 00910633 0012 | ELBOW, EXTRA LG, O-RING - 3/4 FNPT | 1 |
| 47 | 00910751 0066 | ADAPTER, 90 DEG, .375 MOAB TO JIC | 1 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|--|-----|
| 48 | 00910751 0810 | ADAPTER, ELB 90° 3/4 MORBX 5/8 JIC | 1 |
| 49 | 00910751 1010 | ADAPTER, ELB 90° 7/8 MORB X 5/8 JIC | 1 |
| 50 | 01225726 0003 | SLEEVE, RADIATOR 2-1/2 ID X 4.5 | 2 |
| 51 | 01900216 0620 | BRACKET, AIR FILTER TIE DOWN | 2 |
| 52 | 01900216 0621 | BRACKET, DEF TANK BASKET | 1 |
| 53 | 01900216 0645 | BRACKET, COOLER CAC TUBE 950+ | 1 |
| 54 | 01900216 0646 | BRACKET, CLAMP HANGER 950+ | 4 |
| 55 | 01900702 0163 | GUARD, BELT ROAD CAT T4 950+ | 1 |
| 56 | 01900702 0164 | GUARD, BELT CURB CAT T4 950+ | 1 |
| 57 | 01901000 0984 | PANEL, EXHAUST ACCESS T3 950+ | 1 |
| 58 | 01901174 0001 | PROBE, COOLANT LEVEL | 1 |
| 59 | 01901480 0054 | STRAP, HANGING CLAMP 3.80 ID | 2 |
| 60 | 01901492 0012 | SLEEVE, 3.00 ID X 3.50 OD X 4.00 LONG | 2 |
| 61 | 01901561 0015 | TUBE, CEM CAC TUBE C15 T4F | 1 |
| 62 | 01901564 0131 | TUBE, JW BOTTOM C15 T4 | 1 |
| 63 | 01901564 0132 | TUBE, JW TOP C15 T4 | 1 |
| 64 | 01901569 0056 | TUBE, CAC BOTTOM C15 T4 | 1 |
| 65 | 01901569 0057 | TUBE, CAC TOP A C15 T4 | 1 |
| 66 | 01901569 0058 | TUBE, CAC TOP B C15 T4 | 1 |
| 67 | 01901571 0052 | TUBE, EXHAUST 5.00 OD C15 T4F | 1 |
| 68 | 03139185 0730 | COVER, BATTERY TERMINAL POSITIVE | 2 |
| 69 | 03139185 0731 | COVER, BATTERY TERMINAL NEGATIVE | 4 |
| 70 | 03903464 0232 | SUPPORT, REAR CURB C15 T4 | 1 |
| 71 | 03903464 0233 | SUPPORT, REAR ROAD C15 T4 | 1 |
| 72 | 03903464 0234 | SUPPORT, REAR ENG PLT C15 T4 | 2 |
| 73 | 03903464 0235 | SUPPORT, FRONT C15 T4 | 1 |
| 74 | 03903488 0080 | TUBE, CAT RADIATOR CONNECTION | 1 |
| 75 | 05017420 0068 | CABLE, NEGATIVE BATTERY | 1 |
| 76 | 05017420 0071 | CABLE, STARTER GROUND TO ENGINE BLOCK GROUND | 1 |
| 77 | 05017420 0078 | CABLE, BATT POS 39.00 | 1 |
| 78 | 05017570 0037 | CLAMP, CONST TORQUE 3-3/8 - 4-5/8 | 12 |
| 79 | 05017570 0039 | CLAMP, CONST TORQUE 2-3/4 X 3-5/8 | 4 |
| 80 | 05017570 0040 | CLAMP, CONST TORQUE 2-1/4 - 3-1/8 | 4 |
| 81 | 05017570 0045 | CLAMP, CONST TORQUE, 1-3/4 - 2-5/8 | 8 |
| 82 | 05017570 0056 | CLAMP, CON TORQUE 4.75 - 5.625 | 8 |
| 83 | 05017990 0218 | ENGINE, CAT C15 T4F, 475 HP | 1 |
| 84 | 05018231 0049 | FITTING, BARB, 500 x .4375 JIC | 2 |
| NS | 05018395 0251 | HARNES, C15T4 TO JUCTION (NOT SHOWN) | 1 |
| 86 | 05018503 0007 | HOSE, 4" ID CAC CONNECTOR | 3 |
| 87 | 05018503 0009 | HOSE, 5 ID CAC CONNECTOR | 2 |
| 88 | 05018504 0002 | ELBOW, SILICON 1.75 CAC | 2 |
| 89 | 05018660 0021 | LEAD, STARTER TO GROUND | 1 |
| 90 | 05018660 0064 | LEAD WIRE, 6 GA. X 15.00 RED | 1 |
| 91 | 05018660 0065 | LEAD WIRE, 6 GA. X 45.00 RED | 1 |
| 92 | 05018660 0066 | LEAD WIRE, 6GA 30" LG BLACK | 2 |
| 93 | 05019395 0002 | SUPPORT, PIPE, UNIVERSAL | 1 |
| 94 | 09821-003 | VALVE, BALL 1-1/16 MSAEX 3/4 FNPT | 1 |

ENGINE ASSEMBLY-475HP (CONTINUED)

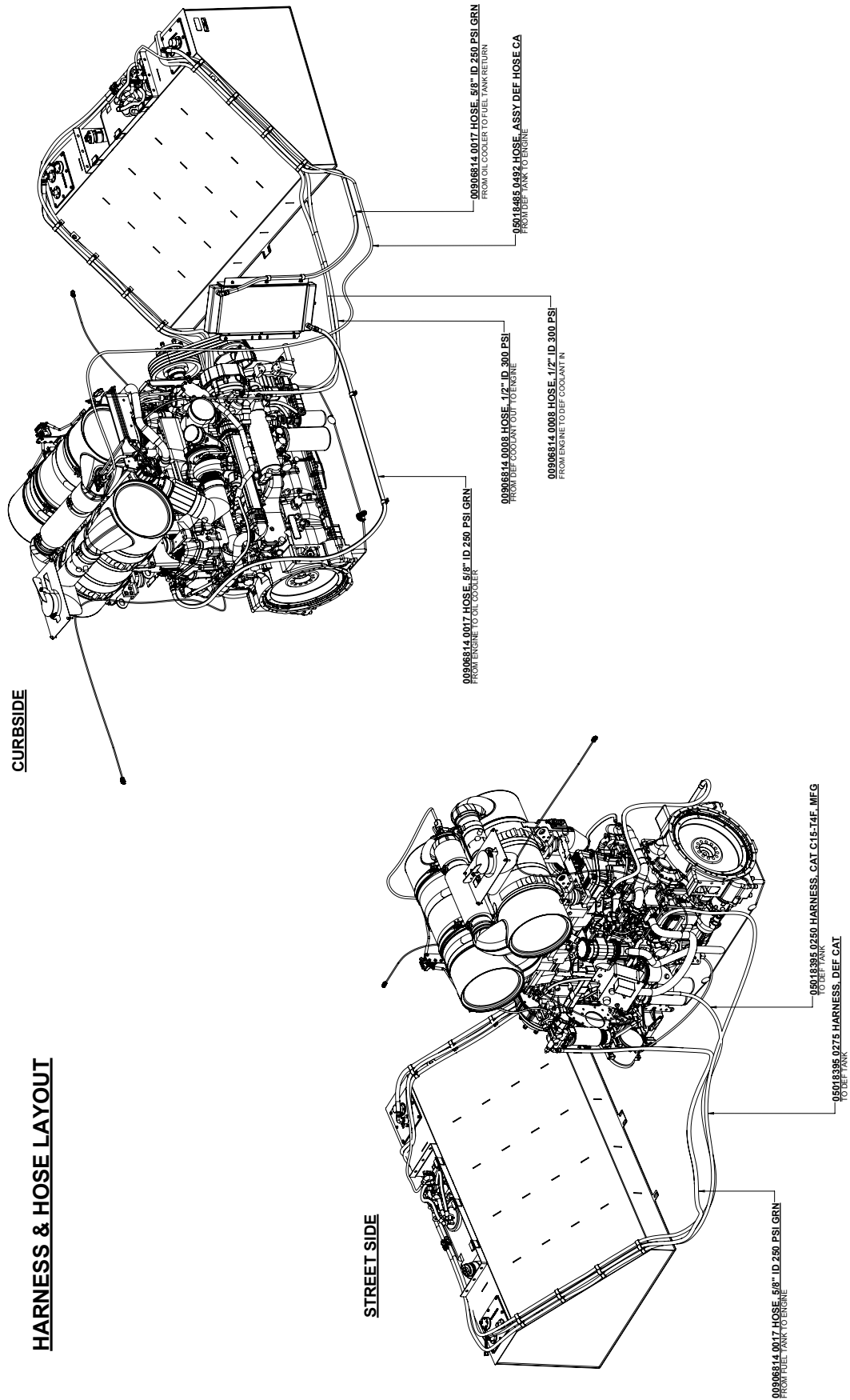


FIGURE 8-7. 00717585 0279 (REV 01)

00717585 0279 ENGINE ASSEMBLY-475HP

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|----------------|---|-------|
| 1 | 00519136 0009 | CAP, RAIN 5.00 | 1 |
| 2 | 00519470 0004 | CLAMP, EXHAUST 4" | 1 |
| 3 | 00519470 0012 | CLAMP, EXHAUST 5.00 GUILLOTINE | 1 |
| 4 | 009000112 0013 | BOLT, HEX 3/8-16 X 1 GR8 | 6 |
| 5 | 009000112 0023 | BOLT, HEX .3750-16 X 1.250 GR8 | 7 |
| 6 | 009000112 0033 | BOLT, HEX 3/8-16 X 1 1/2 GR8 | 8 |
| 7 | 009000112 0053 | BOLT, HEX .3750-16 X 2.000 GR8 | 4 |
| 8 | 00900112 0054 | SCREW, 1/2-13 X 2" LG GD 8 | 6 |
| 9 | 009000112 0055 | BOLT, HEX 5/8-11 X 2" GR8 | 24 |
| 10 | 00900112 0096 | BOLT, HEX 3/4-10 X 3 GR8 | 2 |
| 11 | 009000112 0508 | BOLT, HEX 1-8 X 6-1/2 LG GR5 | 4 |
| 12 | 009000305 0004 | WASHER, LOCK .500 ZINC PLATED | 6 |
| 13 | 009000324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 1 |
| 14 | 009000324 0009 | WASHER, FLAT 3/8 SAE STD | 42 |
| 15 | 009000324 0013 | WASHER, FLAT .6250 SAE STD | 48 |
| 16 | 009000324 0015 | WASHER, FLAT 3/4 SAE STD | 4 |
| 17 | 009000324 0017 | WASHER, FLAT 1.00 SAE STD | 4 |
| 18 | 009000391 0002 | BOLT, TPHMS .250-20 X .750 S5 W NYL | 1 |
| 19 | 009000490 0125 | NUT, NYL OK 1-8 ZINC PLATED | 4 |
| 20 | 00902239 0821 | SCREW, 5/8-11 X 1-1/2" LG SHCS | 8 |
| 21 | 00902319 0005 | CLAMP, HOSE 13/16 X 1-1/2 | 4 |
| 22 | 00902905 0006 | CLAMP, SUPPORT .94 ID | 33 |
| 23 | 00906156 1034 | NIPPLE, HOSE BAND-IT 1.00 ID HOSE X .750 MNPT | 2 |
| 24 | 00906771 0114 | SCREW, THUMB 1/4-20 X 1" S5 | 4 |
| 25 | 00906814 0006 | HOSE, 3/8" ID 250 PSI | 5 FT |
| 26 | 00906814 0008 | HOSE, 1/2" ID 300 PSI | 28 FT |
| 27 | 00906814 0017 | HOSE, 5/8" ID 250 PSI GRN | 33 FT |
| 28 | 00906833 0008 | BARB, HOSE, .500 X .750-16 JIC SWIVEL | 2 |
| 29 | 00906833 0010 | FITTING, HOSE, 5/8 X 7/8-14 JIC | 3 |
| 30 | 00906843 0006 | FITTING, 3/8" HOSE X 1/4 NPT | 1 |
| 31 | 00906843 0066 | FITTING, BARB, 3/8 HOSE 3/8 NPT | 1 |
| 32 | 00906846 1616 | FITTING, ELB 1" HOSE X 1" MNPT | 1 |
| 33 | 00906953 0004 | NUT, TOPLOCK 1/4-20 18-8 S5T | 1 |
| 34 | 00906953 0006 | NUT, TOPLOCK 3/8-16 18-8 S5T | 25 |
| 35 | 00906953 0010 | NUT, TOPLOCK .625-11 18-8 S5T | 24 |
| 36 | 00906953 0012 | NUT, TOPLOCK .750-10 18-8 S5T | 2 |
| 37 | 0090724 0079 | HOSE, 1" ID HD WATER HOSE | 13 FT |
| 38 | 00907234 0406 | ADAPTER, .25 FNPT X .375 MJIC | 1 |
| 39 | 00907234 0812 | ADAPTER, .75 FNPT X .5 MJIC | 1 |
| 40 | 00907234 0813 | ADAPTER 1-1/16 TOR X 1/2 JIC | 1 |
| 41 | 00907234 1204 | ADAPTER, M12 MORB X .25 FNPT | 1 |
| 42 | 00907254 0108 | ELBOW, 1/2" NPT X 10 JIC | 1 |
| 43 | 00910337 0009 | ISOLATOR, VIBRATION | 4 |
| 44 | 00910338 0003 | WASHER, SNUBBING | 4 |
| 45 | 00910623 0008 | ADAPTER, 3/4-16 O-RING X 3/8NPT | 1 |
| 46 | 00910633 0012 | ELBOW, EXTRA LG, O-RING - 3/4 FNPT | 1 |
| 47 | 00910751 0066 | ADAPTER, 90 DEG, .375 MOAB TO JIC | 1 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|--|-----|
| 48 | 00910751 0810 | ADAPTER, ELB 90° 3/4 MORBX 5/8 JIC | 1 |
| 49 | 00910751 1010 | ADAPTER, ELB 90° 7/8 MORB X 5/8 JIC | 1 |
| 50 | 01225726 0003 | SLEEVE, RADIATOR 2-1/2 ID X 4.5 | 2 |
| 51 | 01900216 0620 | BRACKET, AIR FILTER TIE DOWN | 2 |
| 52 | 01900216 0621 | BRACKET, DEF TANK BASKET | 1 |
| 53 | 01900216 0645 | BRACKET, COOLER CAC TUBE 950+ | 1 |
| 54 | 01900216 0646 | BRACKET, CLAMP HANGER 950+ | 4 |
| 55 | 01900702 0163 | GUARD, BELT ROAD CAT T4 950+ | 1 |
| 56 | 01900702 0164 | GUARD, BELT CURB CAT T4 950+ | 1 |
| 57 | 01901000 0984 | PANEL, EXHAUST ACCESS T3 950+ | 1 |
| 58 | 01901174 0001 | PROBE, COOLANT LEVEL | 1 |
| 59 | 01901480 0054 | STRAP, HANGING CLAMP 3.80 ID | 2 |
| 60 | 01901492 0012 | SLEEVE, 3.00 ID X 3.50 OD X 4.00 LONG | 2 |
| 61 | 01901561 0015 | TUBE, CEM CAC TUBE C15 T4F | 1 |
| 62 | 01901564 0131 | TUBE, JW BOTTOM C15 T4 | 1 |
| 63 | 01901564 0132 | TUBE, JW TOP C15 T4 | 1 |
| 64 | 01901569 0056 | TUBE, CAC BOTTOM C15 T4 | 1 |
| 65 | 01901569 0057 | TUBE, CAC TOP A C15 T4 | 1 |
| 66 | 01901569 0058 | TUBE, CAC TOP B C15 T4 | 1 |
| 67 | 01901571 0052 | TUBE, EXHAUST 5.00 OD C15 T4F | 1 |
| 68 | 03139185 0730 | COVER, BATTERY TERMINAL POSITIVE | 2 |
| 69 | 03139185 0731 | COVER, BATTERY TERMINAL NEGATIVE | 4 |
| 70 | 03903464 0232 | SUPPORT, REAR CURB C15 T4 | 1 |
| 71 | 03903464 0233 | SUPPORT, REAR ROAD C15 T4 | 1 |
| 72 | 03903464 0234 | SUPPORT, REAR ENG PLT C15 T4 | 2 |
| 73 | 03903464 0235 | SUPPORT, FRONT C15 T4 | 1 |
| 74 | 03903488 0080 | TUBE, CAT RADIATOR CONNECTION | 1 |
| 75 | 05017420 0068 | CABLE, NEGATIVE BATTERY | 1 |
| 76 | 05017420 0071 | CABLE, STARTER GROUND TO ENGINE BLOCK GROUND | 1 |
| 77 | 05017420 0078 | CABLE, BATT POS 39.00 | 1 |
| 78 | 05017570 0037 | CLAMP, CONST TORQUE 3-3/8 - 4-5/8 | 12 |
| 79 | 05017570 0039 | CLAMP, CONST TORQUE 2-3/4 X 3-5/8 | 4 |
| 80 | 05017570 0040 | CLAMP, CONST TORQUE 2-1/4 - 3-1/8 | 4 |
| 81 | 05017570 0045 | CLAMP, CONST TORQUE, 1-3/4 - 2-5/8 | 8 |
| 82 | 05017570 0056 | CLAMP, CON TORQUE 4.75 - 5.625 | 8 |
| 83 | 05017990 0218 | ENGINE, CAT C15 T4F, 475 HP | 1 |
| 84 | 05018231 0049 | FITTING, BARB, 500 x .4375 JIC | 2 |
| NS | 05018395 0251 | HARNES, C15T4 TO JUCTION (NOT SHOWN) | 1 |
| 86 | 05018503 0007 | HOSE, 4" ID CAC CONNECTOR | 3 |
| 87 | 05018503 0009 | HOSE, 5 ID CAC CONNECTOR | 2 |
| 88 | 05018504 0002 | ELBOW, SILICON 1.75 CAC | 2 |
| 89 | 05018660 0021 | LEAD, STARTER TO GROUND | 1 |
| 90 | 05018660 0064 | LEAD WIRE, 6 GA. X 15.00 RED | 1 |
| 91 | 05018660 0065 | LEAD WIRE, 6 GA. X 45.00 RED | 1 |
| 92 | 05018660 0066 | LEAD WIRE, 6GA 30" LG BLACK | 2 |
| 93 | 05019395 0002 | SUPPORT, PIPE, UNIVERSAL | 1 |
| 94 | 09821-003 | VALVE, BALL 1-1/16 MSAEX 3/4 FNPT | 1 |

ENGINE ASSEMBLY-475HP (CONTINUED)

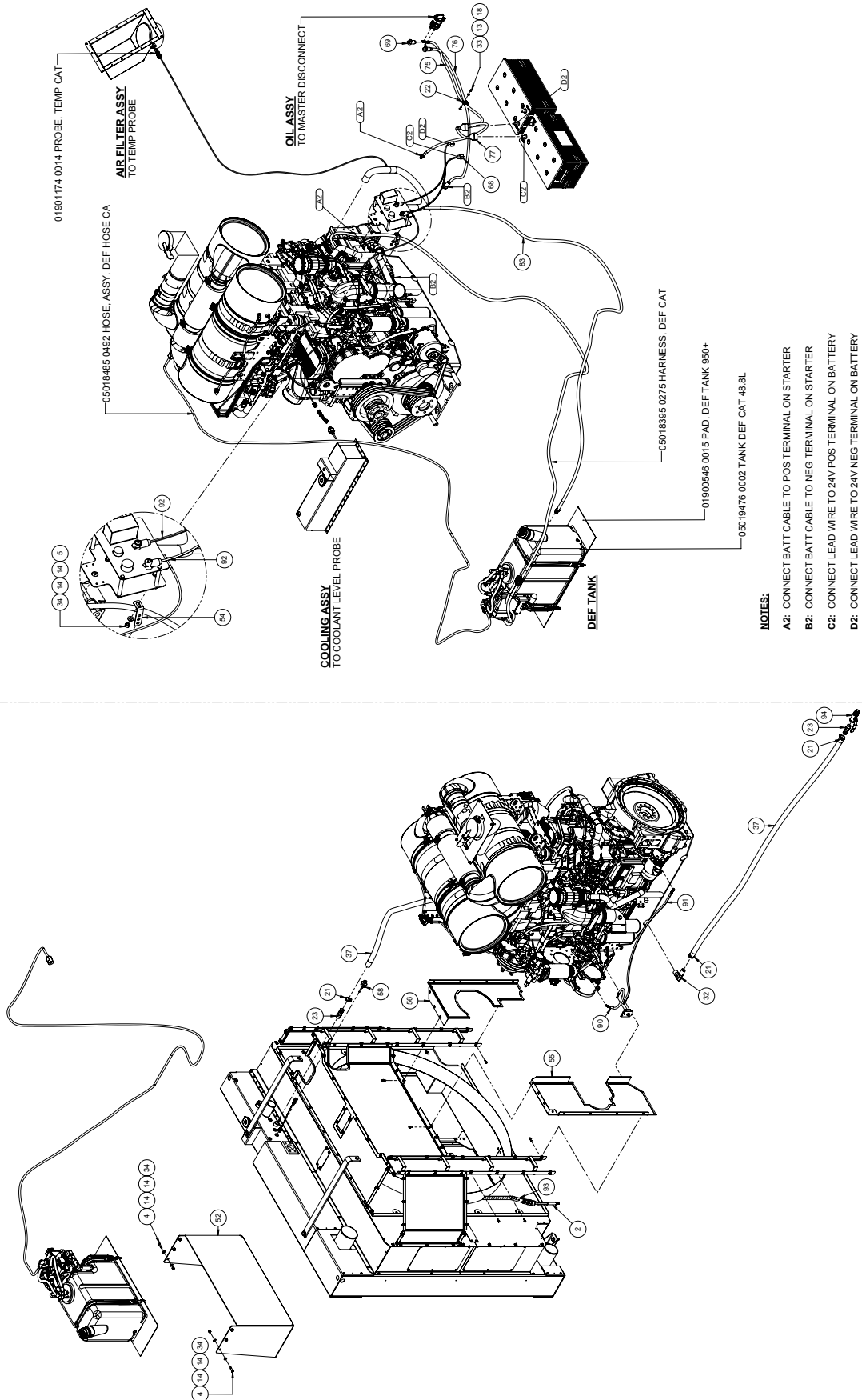


FIGURE 8-8. 00717585 0279 (REV 01)

00717585 0279 ENGINE ASSEMBLY-475HP

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|----------------|---|-------|
| 1 | 00519136 0009 | CAP, RAIN 5.00 | 1 |
| 2 | 00519470 0004 | CLAMP, EXHAUST 4" | 1 |
| 3 | 00519470 0012 | CLAMP, EXHAUST 5.00 GUILLOTINE | 1 |
| 4 | 009000112 0013 | BOLT, HEX 3/8-16 X 1 GR8 | 6 |
| 5 | 009000112 0023 | BOLT, HEX .3750-16 X 1.250 GR8 | 7 |
| 6 | 009000112 0033 | BOLT, HEX 3/8-16 X 1 1/2 GR8 | 8 |
| 7 | 009000112 0053 | BOLT, HEX .3750-16 X 2.000 GR8 | 4 |
| 8 | 00900112 0054 | SCREW, 1/2-13 X 2" LG GD 8 | 6 |
| 9 | 009000112 0055 | BOLT, HEX 5/8-11 X 2" GR8 | 24 |
| 10 | 00900112 0096 | BOLT, HEX 3/4-10 X 3 GR8 | 2 |
| 11 | 009000112 0508 | BOLT, HEX 1-8 X 6-1/2 LG GR5 | 4 |
| 12 | 009000305 0004 | WASHER, LOCK .500 ZINC PLATED | 6 |
| 13 | 009000324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 1 |
| 14 | 009000324 0009 | WASHER, FLAT 3/8 SAE STD | 42 |
| 15 | 009000324 0013 | WASHER, FLAT .6250 SAE STD | 48 |
| 16 | 009000324 0015 | WASHER, FLAT 3/4 SAE STD | 4 |
| 17 | 009000324 0017 | WASHER, FLAT 1.00 SAE STD | 4 |
| 18 | 009000391 0002 | BOLT, TPHMS .250-20 X .750 S5 W NYL | 1 |
| 19 | 00900490 0125 | NUT, NYL OK 1-8 ZINC PLATED | 4 |
| 20 | 00902239 0821 | SCREW, 5/8-11 X 1-1/2" LG SHCS | 8 |
| 21 | 00902319 0005 | CLAMP, HOSE 13/16 X 1-1/2 | 4 |
| 22 | 00902905 0006 | CLAMP, SUPPORT .94 ID | 33 |
| 23 | 00906156 1034 | NIPPLE, HOSE BAND-IT 1.00 ID HOSE X .750 MNPT | 2 |
| 24 | 00906771 0114 | SCREW, THUMB 1/4-20 X 1" S5 | 4 |
| 25 | 00906814 0006 | HOSE, 3/8" ID 250 PSI | 5 FT |
| 26 | 00906814 0008 | HOSE, 1/2" ID 300 PSI | 28 FT |
| 27 | 00906814 0017 | HOSE, 5/8" ID 250 PSI GRN | 33 FT |
| 28 | 00906833 0008 | BARB, HOSE, .500 X .750-16 JIC SWIVEL | 2 |
| 29 | 00906833 0010 | FITTING, HOSE, 5/8 X 7/8-14 JIC | 3 |
| 30 | 00906843 0006 | FITTING, 3/8" HOSE X 1/4 NPT | 1 |
| 31 | 00906843 0066 | FITTING, BARB, 3/8 HOSE 3/8 NPT | 1 |
| 32 | 00906846 1616 | FITTING, ELB 1" HOSE X 1" MNPT | 1 |
| 33 | 00906953 0004 | NUT, TOPLOCK 1/4-20 18-8 S5T | 1 |
| 34 | 00906953 0006 | NUT, TOPLOCK 3/8-16 18-8 S5T | 25 |
| 35 | 00906953 0010 | NUT, TOPLOCK .625-11 18-8 S5T | 24 |
| 36 | 00906953 0012 | NUT, TOPLOCK .750-10 18-8 S5T | 2 |
| 37 | 00907224 0079 | HOSE, 1" ID HD WATER HOSE | 13 FT |
| 38 | 00907234 0406 | ADAPTER, .25 FNPT X .375 M JIC | 1 |
| 39 | 00907234 0812 | ADAPTER, .75 FNPT X .5 M JIC | 1 |
| 40 | 00907234 0813 | ADAPTER 1-1/16 TOR X 1/2 JIC | 1 |
| 41 | 00907234 1204 | ADAPTER, M12 MORB X .25 FNPT | 1 |
| 42 | 00907254 0108 | ELBOW, 1/2" NPT X 10 JIC | 1 |
| 43 | 00910337 0009 | ISOLATOR, VIBRATION | 4 |
| 44 | 00910338 0003 | WASHER, SNUBBING | 4 |
| 45 | 00910623 0008 | ADAPTER, 3/4-16 O-RING X 3/8NPT | 1 |
| 46 | 00910633 0012 | ELBOW, EXTRA LG, O-RING - 3/4 FNPT | 1 |
| 47 | 00910751 0066 | ADAPTER, 90 DEG, .375 MOAB TO JIC | 1 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|--|-----|
| 48 | 00910751 0810 | ADAPTER, ELB 90° 3/4 MORBX5/8 JIC | 1 |
| 49 | 00910751 1010 | ADAPTER, ELB 90° 7/8 MORB X 5/8 JIC | 1 |
| 50 | 01225726 0003 | SLEEVE, RADIATOR 2-1/2 ID X 4.5 | 2 |
| 51 | 01900216 0620 | BRACKET, AIR FILTER TIE DOWN | 2 |
| 52 | 01900216 0621 | BRACKET, DEF TANK BASKET | 1 |
| 53 | 01900216 0645 | BRACKET, COOLER CAC TUBE 950+ | 1 |
| 54 | 01900216 0646 | BRACKET, CLAMP HANGER 950+ | 4 |
| 55 | 01900702 0163 | GUARD, BELT ROAD CAT T4 950+ | 1 |
| 56 | 01900702 0164 | GUARD, BELT CURB CAT T4 950+ | 1 |
| 57 | 01901000 0984 | PANEL, EXHAUST ACCESS T3 950+ | 1 |
| 58 | 01901174 0001 | PROBE, COOLANT LEVEL | 1 |
| 59 | 01901480 0054 | STRAP, HANGING CLAMP 3.80 ID | 2 |
| 60 | 01901492 0012 | SLEEVE, 3.00 ID X 3.50 OD X 4.00 LONG | 2 |
| 61 | 01901561 0015 | TUBE, CEM CAC TUBE C15 T4F | 1 |
| 62 | 01901564 0131 | TUBE, JW BOTTOM C15 T4 | 1 |
| 63 | 01901564 0132 | TUBE, JW TOP C15 T4 | 1 |
| 64 | 01901569 0056 | TUBE, CAC BOTTOM C15 T4 | 1 |
| 65 | 01901569 0057 | TUBE, CAC TOP A C15 T4 | 1 |
| 66 | 01901569 0058 | TUBE, CAC TOP B C15 T4 | 1 |
| 67 | 01901571 0052 | TUBE, EXHAUST 5.00 OD C15 T4F | 1 |
| 68 | 03139185 0730 | COVER, BATTERY TERMINAL POSITIVE | 2 |
| 69 | 03139185 0731 | COVER, BATTERY TERMINAL NEGATIVE | 4 |
| 70 | 03903464 0232 | SUPPORT, REAR CURB C15 T4 | 1 |
| 71 | 03903464 0233 | SUPPORT, REAR ROAD C15 T4 | 1 |
| 72 | 03903464 0234 | SUPPORT, REAR ENG PLT C15 T4 | 2 |
| 73 | 03903464 0235 | SUPPORT, FRONT C15 T4 | 1 |
| 74 | 03903488 0080 | TUBE, CAT RADIATOR CONNECTION | 1 |
| 75 | 05017420 0068 | CABLE, NEGATIVE BATTERY | 1 |
| 76 | 05017420 0071 | CABLE, STARTER GROUND TO ENGINE BLOCK GROUND | 1 |
| 77 | 05017420 0078 | CABLE, BATT POS 39.00 | 1 |
| 78 | 05017570 0037 | CLAMP, CONST TORQUE 3-3/8 - 4-5/8 | 12 |
| 79 | 05017570 0039 | CLAMP, CONST TORQUE 2-3/4 X 3-5/8 | 4 |
| 80 | 05017570 0040 | CLAMP, CONST TORQUE 2-1/4 - 3-1/8 | 4 |
| 81 | 05017570 0045 | CLAMP, CONST TORQUE 1-3/4 - 2-5/8 | 8 |
| 82 | 05017570 0056 | CLAMP, CON TORQUE 4.75 - 5.625 | 8 |
| 83 | 05017990 0218 | ENGINE, CAT C15 T4F, 475 HP | 1 |
| 84 | 05018231 0049 | FITTING, BARB.500 x .4375 JIC | 2 |
| NS | 05018395 0251 | HARNES, C15T4 TO JUCTION (NOT SHOWN) | 1 |
| 86 | 05018503 0007 | HOSE, 4" ID CAC CONNECTOR | 3 |
| 87 | 05018503 0009 | HOSE, 5 ID CAC CONNECTOR | 2 |
| 88 | 05018504 0002 | ELBOW, SILICON 1.75 CAC | 2 |
| 89 | 05018660 0021 | LEAD, STARTER TO GROUND | 1 |
| 90 | 05018660 0064 | LEAD WIRE, 6 GA. X 15.00 RED | 1 |
| 91 | 05018660 0065 | LEAD WIRE, 6 GA. X 45.00 RED | 1 |
| 92 | 05018660 0066 | LEAD WIRE, 6GA 30" LG BLACK | 2 |
| 93 | 05019395 0002 | SUPPORT, PIPE, UNIVERSAL | 1 |
| 94 | 09821-003 | VALVE, BALL 1-1/16 MSAEX 3/4 FNPT | 1 |

8.8 BATTERY ASSEMBLY

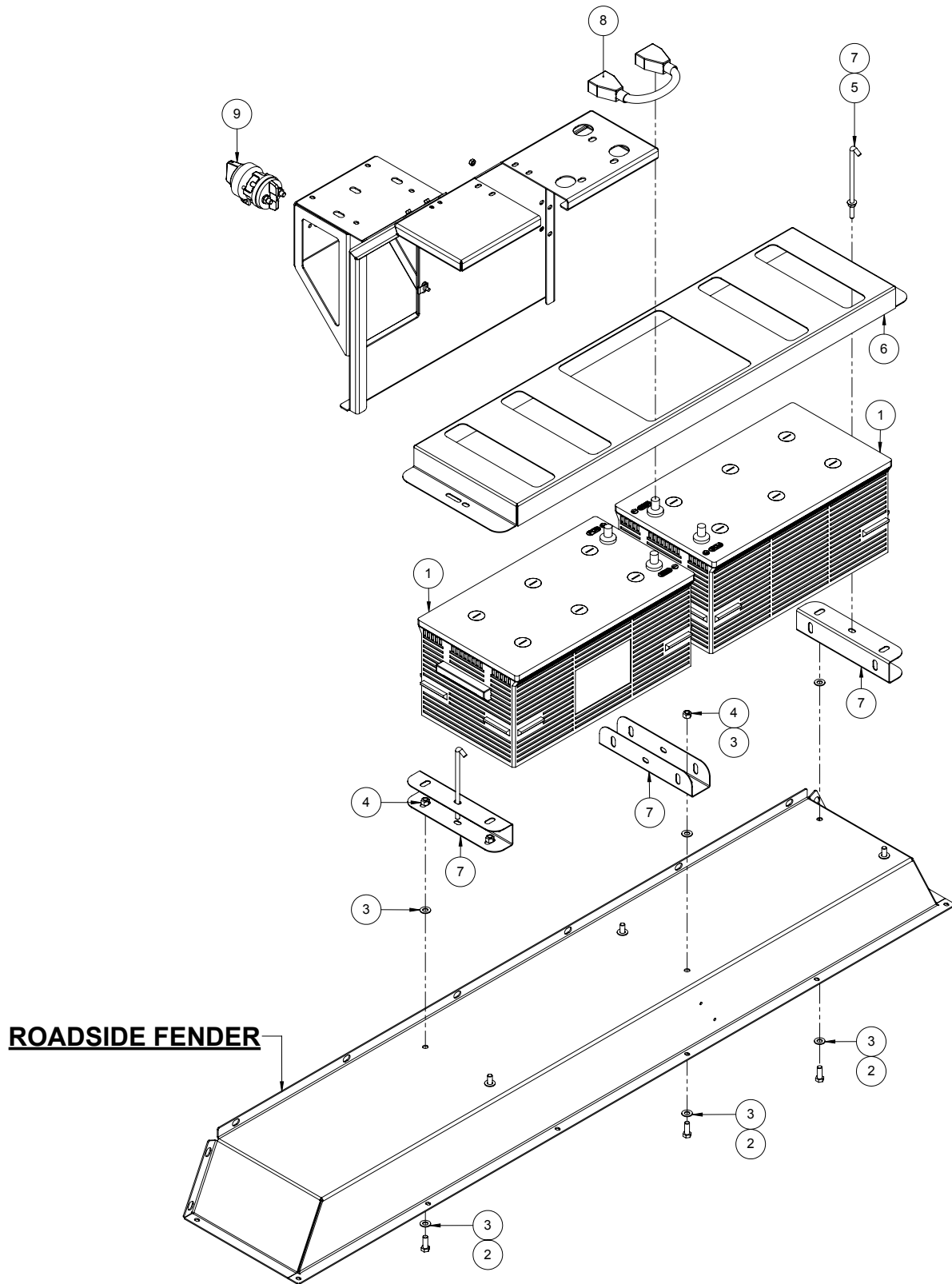


FIGURE 8-9. 00717300 0013 (REV 04)

00717300 0013 BATTERY ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---------------------------------|-----|
| 1 | 0 A218438 8 | BATTERY, 12V 1400 CCA BCI GP 8D | 2 |
| 2 | 00900112 0013 | BOLT, HEX 3/8-16 X 1 GR8 | 6 |
| 3 | 00900324 0009 | WASHER, FLAT 3/8 SAE STD | 12 |
| 4 | 00906953 0006 | NUT, TOPLOCK 3/8-16 18-8 SST | 6 |
| 5 | 01900168 0022 | BOLT, J-HOOK .3125-18 X 6.75 | 2 |
| 6 | 01900216 0642 | BRACKET, BATTERY HOLD DOWN 950+ | 1 |
| 7 | 01900216 0643 | BRACKET, BATTERY MOUNT 950+ | 3 |
| 8 | 05017420 0045 | CABLE, BATTERY POS. TO NEG. | 1 |
| 9 | 05019430 0072 | SWITCH, BATTERY LOCKOUT | 1 |

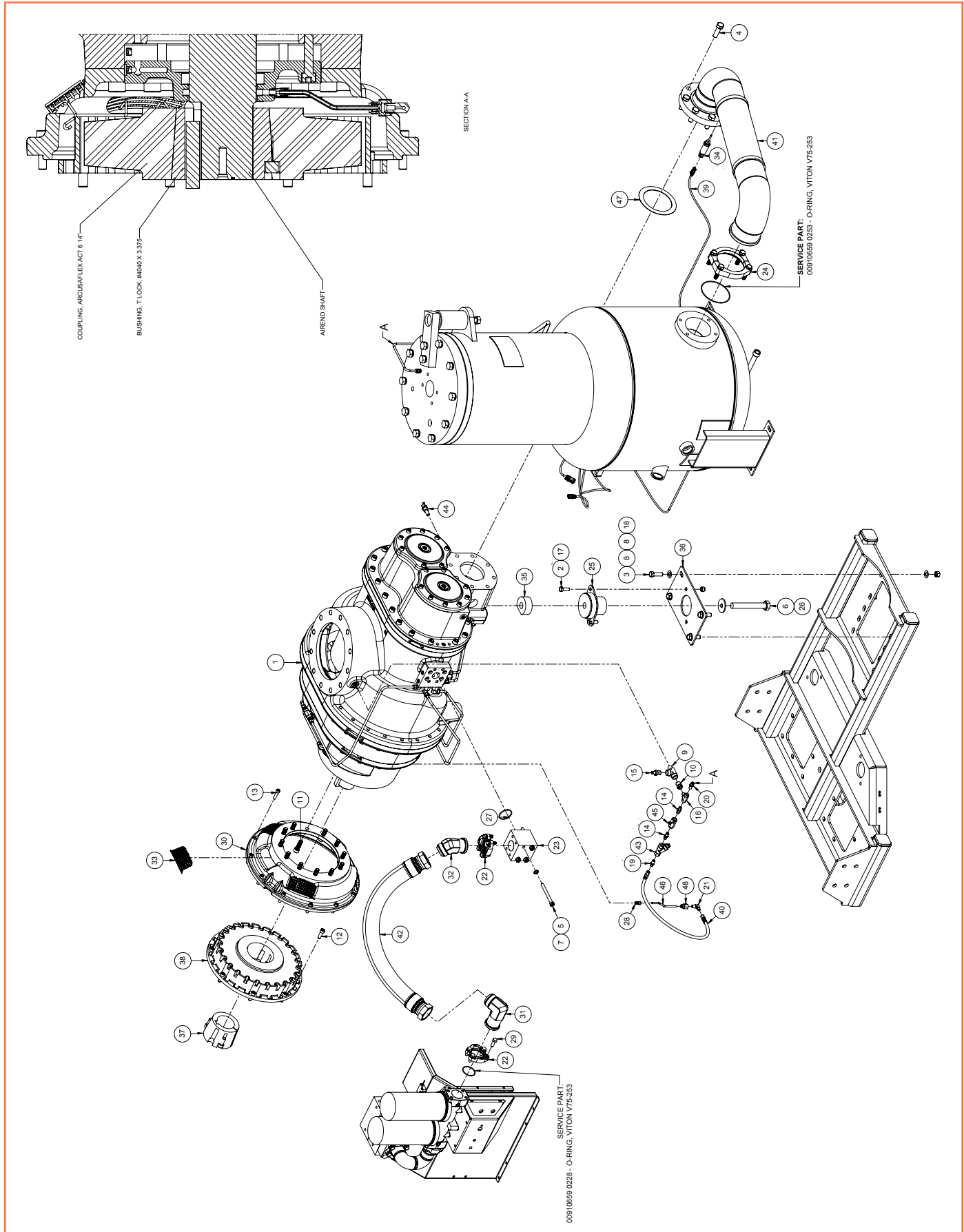


FIGURE 8-10. 00717488 0133 (REV 04)

00717488 0133 COMPRESSOR ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---------------------------------------|-----|
| 1 | 00501171 2838 | COMPR,321.1.68,GR1.1014, 5.0VI | 1 |
| 2 | 00900112 0034 | BOLT, HEX 1/2-13 X 1 1/2 GR8 | 2 |
| 3 | 00900112 0055 | BOLT, HEX 5/8-11 X 2" GR8 | 4 |
| 4 | 00900112 0076 | BOLT,HEX 3/4-10 X 2 1/2 GR8 | 8 |
| 5 | 00900112 0174 | BOLT, HEX 1/2-13 X 5 GR8 | 4 |
| 6 | 00900112 0518 | BOLT, HEX 1"-8 X 7" GR8 | 1 |
| 7 | 00900305 0004 | WASHER, LOCK .500 ZINC PLATED | 4 |
| 8 | 00900324 0013 | WASHER, FLAT .6250 SAE STD | 8 |
| 9 | 00901100 0003 | TEE, MXFXF .5NPT 5000# | 1 |
| 10 | 00901154 0005 | BUSHING,NPT 1/2 X 1/4 3000# SS | 1 |
| 11 | 00902224 0823 | BOLT, SOCKET HD 5/8-11 X 2" | 12 |
| 12 | 00902238 0095 | SCREW, 1/2-13 X 1-1/2 LG SKT HD | 8 |
| 13 | 00902239 0776 | CAPSCREW, SOC HD 7/16-14 X 1-3/4 | 12 |
| 14 | 00906060 0004 | NIPPLE, HEX .250 NPT SST 7200# | 2 |
| 15 | 00906060 0125 | NIPPLE, PIPE HEX .500 X .250 SS | 1 |
| 16 | 00906428 0004 | TEE, BRANCH 1/4 NPT 5000# SS | 1 |
| 17 | 00906953 0008 | NUT, TOPLOCK 1/2-13 18-8 SST | 2 |
| 18 | 00906953 0010 | NUT, TOPLOCK .625-11 18-8 SST | 4 |
| 19 | 00907235 0044 | ADAPTER,1/4NPTX1/4JIC 6000# SS | 1 |
| 20 | 00907235 0064 | ADAPTER,1/4NPTX3/8JIC 6000# SS | 1 |
| 21 | 00907256 0044 | ELBOW,90° JICX1/4NPT 6000# SS | 1 |
| 22 | 00909753 0032 | KIT, SPLIT FLANGE-SAE 4BOLT 2" | 2 |
| 23 | 00909753 0037 | FLANGE, ELBOW 2"SAE | 1 |
| 24 | 00909753 0080 | KIT, SPLIT FLANGE CODE 61 5IN | 1 |
| 25 | 00910337 0009 | ISOLATOR, VIBRATION | 1 |
| 26 | 00910338 0002 | WASHER, SNUBBING 2.50 DIA. | 1 |
| 27 | 00910659 0228 | ORING, VITON V75-228 | 1 |
| 28 | 00913146 0004 | CONN,MALE,1/4 TUBE X 1/8 NPT | 1 |
| 29 | 00925012 1121 | BOLT, M12-1.75 X 35MM GR8.8 | 4 |
| 30 | 01170250 0030 | ADAPTER, SAE #1 321MM | 1 |
| 31 | 01900592 0044 | ADAPTER,ELB 2 JIC X 2 SAE | 1 |
| 32 | 01900592 0058 | ADAPTER,2.00" SAE X 2.00" JIC 45° ELB | 1 |
| 33 | 01900702 0321 | GUARD, SAE ADPT. WIRE | 3 |
| 34 | 01901174 0010 | PROBE, TEMP 4-20MA | 1 |
| 35 | 01901416 0139 | SPACER, UNIT 321MM PORTABLE | 1 |
| 36 | 03903464 0240 | SUPPORT, 321 COMP PLATE | 1 |
| 37 | 05017375 0018 | BUSHING,TAPER LOCK #4040 | 1 |
| 38 | 05017720 0034 | COUPLING, ARCUSAFLEX ACT 6 14" | 1 |
| 39 | 05018395 0233 | HARNESS, TEMP SENDER 950+ | 1 |
| 40 | 05018485 0020 | HOSE ASSY .25 JIC X 40.0" LG | 1 |
| 41 | 05018485 0430 | HOSE, DISCHARGE 1600 GEARED | 1 |
| 42 | 05018485 0441 | HOSE ASSY, 2" X 40" LG. JIC | 1 |
| 43 | 05019347 0007 | STRAINER,Y .25NPT SST 800 PSI | 1 |
| 44 | 05019415 0029 | SWITCH, TEMPERATURE 265° F | 1 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|--------------------------------|-----|
| 45 | 05019730 0005 | VALVE, CHECK 1/4NPT | 1 |
| 46 | 09604-001 | TUBE, SP32 SEAL DRAIN | 1 |
| 47 | 90708-012 | GASKET, .150# RF 5.0" FLG | 1 |
| 48 | 92967-044 | CONN, FEMALE 1/4"TT X 1/4" FPT | 1 |

8.10 INLET VALVE ASSEMBLY

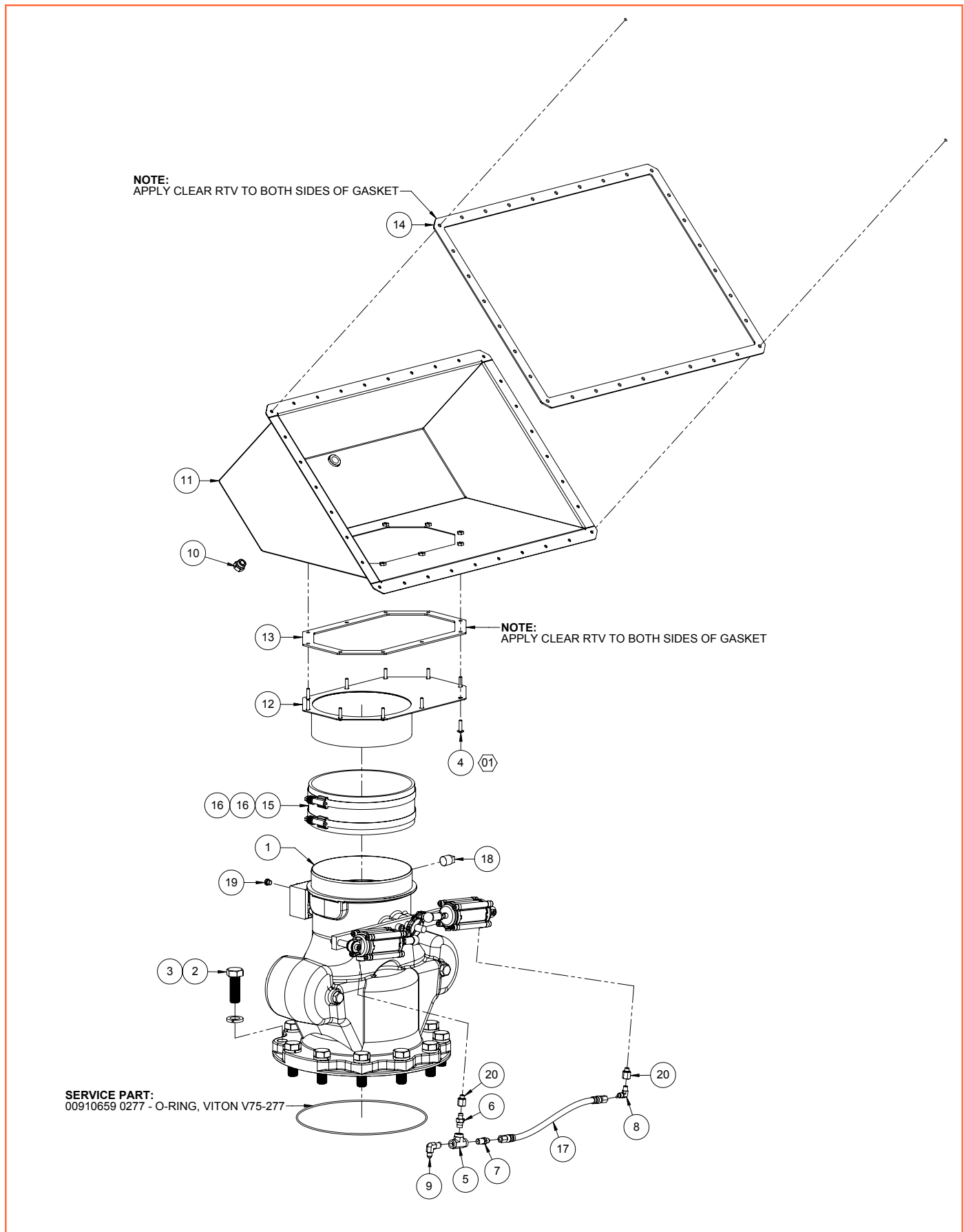


FIGURE 8-11. 00717985 0067 (REV 02)

00717985 0067 INLET VALVE ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|------------------------------------|-----|
| 1 | 00501174 2614 | VALVE, INLET 321 NC W/CONTROLS | 1 |
| 2 | 00900112 0077 | BOLT,HEX 7/8-9 X 2 1/2 GR8 | 12 |
| 3 | 00900303 0068 | WASHER, LOCK .875 SS | 12 |
| 4 | 00900391 0013 | BOLT, TPHMS 1/4-20 X 1.00 SS W NYL | 10 |
| 5 | 00901101 0002 | TEE, PIPE .250 NPT 3000# SS | 1 |
| 6 | 00906060 0042 | NIPPLE, PIPE HEX .25 X .13 SS | 1 |
| 7 | 00907235 0044 | ADAPTER,1/4NPTX1/4JIC 6000# SS | 1 |
| 8 | 00907256 0042 | ELBOW,90°JIC X 1/8NPT 6000# SS | 1 |
| 9 | 00907256 0044 | ELBOW,90° JICX1/4NPT 6000# SS | 1 |
| 10 | 00910618 0008 | PLUG, HEX SAE 3/4-16 O-RING | 1 |
| 11 | 01900216 0698 | BRACKET,INTAKE DUCT COMPR 950+ | 1 |
| 12 | 01900216 0700 | BRACKET, AIR INTAKE COMPR 321 | 1 |
| 13 | 01900664 0038 | GASKET, AIR FILTER MANIFOLD 950+ | 1 |
| 14 | 01900664 0040 | GASKET, INTAKE DUCT COMPR 950+ | 1 |
| 15 | 01901492 0031 | SLEEVE, RUBBER 9 ID X 4" LG | 1 |
| 16 | 05017570 0054 | CLAMP, CON TORQUE 8.25 - 9.625 | 2 |
| 17 | 05018485 0392 | HOSE ASSY, .25JIC X 19LG | 1 |
| 18 | 94561-004 | PLUG, PIPE 1/2" SQ.HD | 1 |
| 19 | 94562-001 | PLUG, PORT 1/8" BSPP | 1 |
| 20 | 94855-022 | ADAPTER, 1/8 MBSPP X FNPT | 2 |

8.11 THROTTLE ASSEMBLY

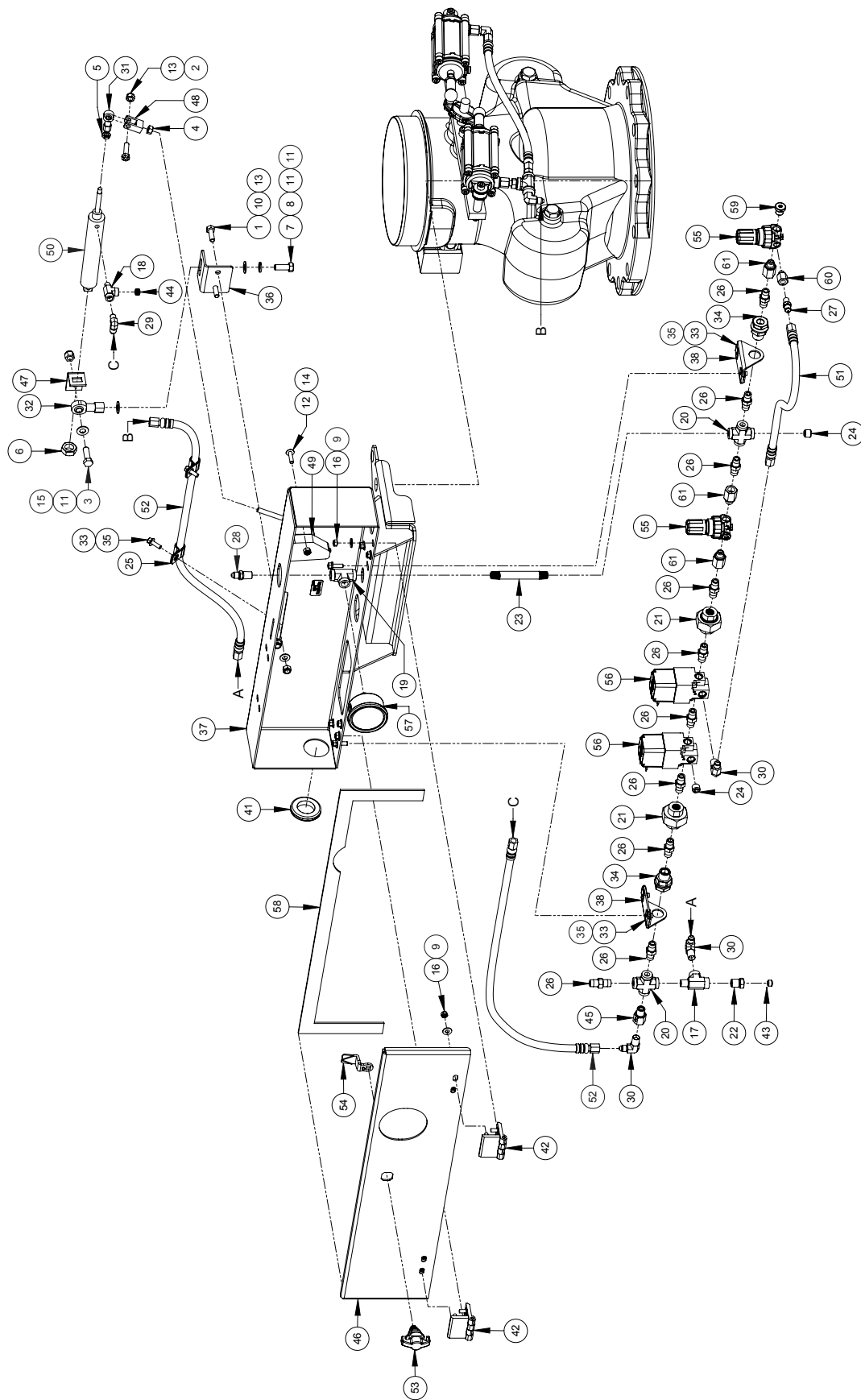
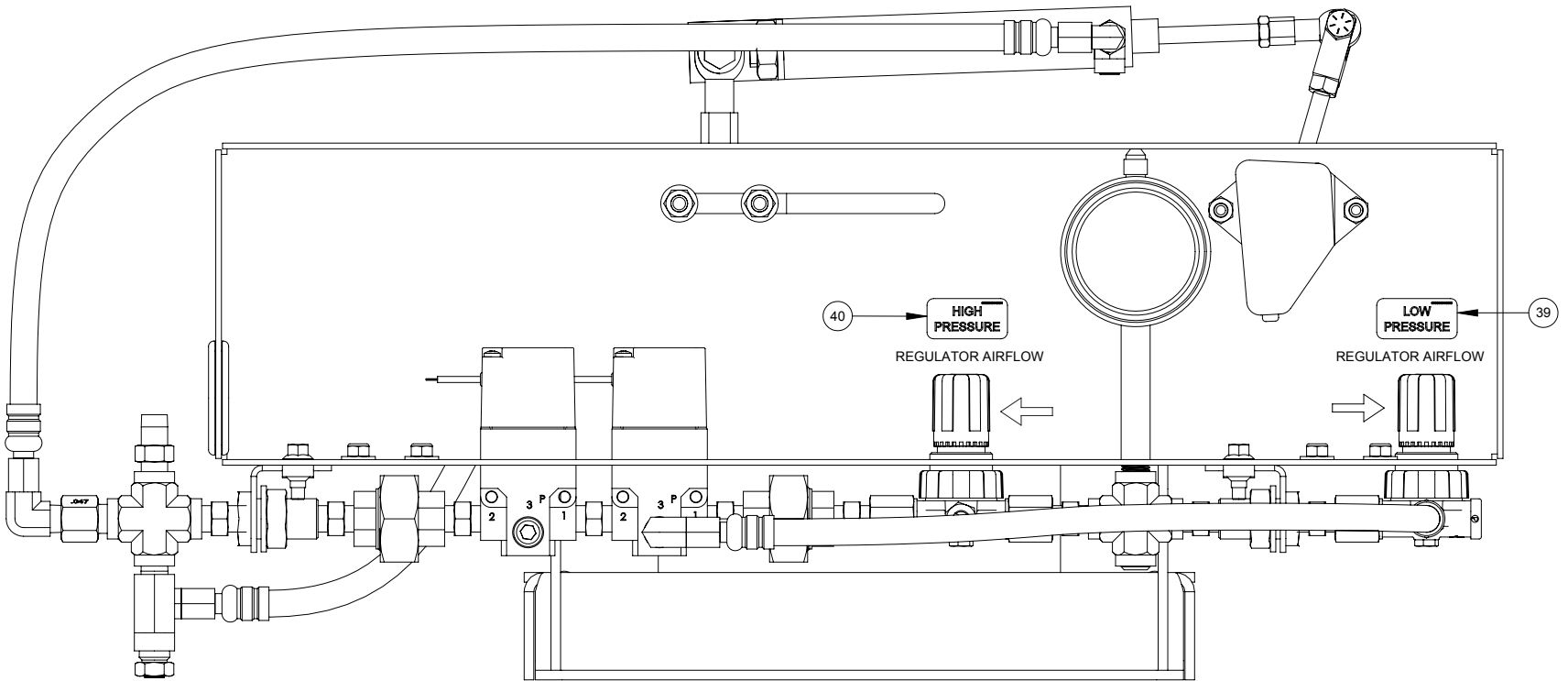


FIGURE 8-12. 00717200 0005 (REV 06)

00717200 0005 THROTTLE ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---|-----|
| 1 | 00900112 0012 | BOLT, HEX 5/16-18 X 1 GR8 | 2 |
| 2 | 00900112 0022 | BOLT, HEX 5/16-18 X 1 1/4 GR8 | 1 |
| 3 | 00900112 0023 | BOLT, HEX .3750-16 X 1.250 GR8 | 1 |
| 4 | 00900165 0003 | NUT, HEX 5/16"-18 GR2 ZINC PLATED | 1 |
| 5 | 00900214 0003 | NUT, HEX JAM 5/16-24 GR2 | 1 |
| 6 | 00900215 0006 | NUT, HEX JAM 5/8-18 SS | 1 |
| 7 | 00900232 0015 | SCREW, 3/8-24 X 1" LG GR5 | 1 |
| 8 | 00900303 0003 | WASHER, LOCK .375 STAINLESS | 1 |
| 9 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 8 |
| 10 | 00900324 0008 | WASHER, FLAT 5/16 SAE STD | 2 |
| 11 | 00900324 0009 | WASHER, FLAT 3/8 SAE STD | 3 |
| 12 | 00900391 0013 | BOLT, TPHMS 1/4-20 X 1.00 SS W NYL | 2 |
| 13 | 00900490 0062 | NUT, NYLON 5/16-18 ZN PLT | 3 |
| 14 | 00900490 0071 | NUT, NYLOC .250-20 ZN PLT | 2 |
| 15 | 00900490 0081 | NUT, NYLOC 3/8-16 ZINC PLATED | 1 |
| 16 | 00900493 0001 | NUT, NYLOC M6X1.00 ZINC PLATED | 8 |
| 17 | 00901100 0001 | TEE, MXFXF .25NPT 5000# | 1 |
| 18 | 00901100 0006 | TEE, MXFXF .125NPT 5000# | 1 |
| 19 | 00901101 0002 | TEE, PIPE .250 NPT 3000# SS | 1 |
| 20 | 00901104 0002 | CROSS, .25 NPT 5000# SS | 2 |
| 21 | 00901136 0002 | UNION, PIPE 1/4" FNPT SS 3000# | 2 |
| 22 | 00901154 0001 | BUSHING, NPT 1/4 X 1/8 3000# SS | 1 |
| 23 | 00901177 0128 | NIPPLE, PIPE .25 X 4.00 SCH 80 GLV | 1 |
| 24 | 00901925 0002 | PLUG, PIPE, 1/4 NPT, SOCKET HD, SS | 2 |
| 25 | 00902905 0001 | CLAMP, SUPPORT .50 ID | 2 |
| 26 | 00906060 0004 | NIPPLE, HEX .250 NPT SST 7200# | 10 |
| 27 | 00907235 0042 | ADAPTER, 1/8 NPT X 1/4 JIC 6000# SS | 1 |
| 28 | 00907235 0044 | ADAPTER, 1/4 NPT X 1/4 JIC 6000# SS | 1 |
| 29 | 00907256 0042 | ELBOW, 90° JIC X 1/8 NPT 6000# SS | 1 |
| 30 | 00907256 0044 | ELBOW, 90° JIC X 1/4 NPT 6000# SS | 3 |
| 31 | 00907485 0005 | ROD END, SPHER 5/16 X 5/16-24 | 1 |
| 32 | 00907485 0006 | ROD END, SPHER 3/8 X 3/8-24 | 1 |
| 33 | 00909088 0010 | NUT, SPEED 1/4-20 U-TYPE | 6 |
| 34 | 00912141 0003 | ADAPTER, BULKHEAD, 1/4 NPT X 1-1/2" | 2 |
| 35 | 01900060 0001 | BOLT, HEX FLANGE 1/4-20 X 3/4 SS | 6 |
| 36 | 01900216 0388 | BRACKET, AIR CYLINDER | 1 |
| 37 | 01900216 0671 | BRACKET, THROTTLE ASSY 950+ | 1 |
| 38 | 01900216 0672 | BRACKET, REGULATOR ASSY 950+ | 2 |
| 39 | 01900464 0363 | DECAL, LOW PRESSURE | 1 |
| 40 | 01900464 0364 | DECAL, HIGH PRESSURE | 1 |
| 41 | 01900696 0012 | GROMMET, 1.25 ID X 1.75 OD X .094 PANEL THK | 1 |
| 42 | 01900752 0105 | HINGE, BLACK ZINC, 950+ | 2 |
| 43 | 01900930 0013 | ORIFICE, .031 X 1/8" MNPT BRASS | 1 |
| 44 | 01900930 0020 | ORIFICE, .063 X .13NPT BRASS | 1 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---|------|
| 45 | 01900930 0034 | ORIFICE, .047 ID 1/4 M/FPT | 1 |
| 46 | 01901000 0996 | PANEL, THROTTLE BRACKET COVER | 1 |
| 47 | 01901520 0193 | SUPPORT, AIR CYLINDER | 1 |
| 48 | 01901520 0311 | SUPPORT, THROTTLE CYLINDER | 1 |
| 49 | 05017685 0008 | REMOTE SPEED CONTROL, CAT | 1 |
| 50 | 05017820 0028 | CYLINDER, AIR 1-1/16X3 STROKE | 1 |
| 51 | 05018485 0392 | HOSE ASSY, .25 JIC X 19 LG | 1 |
| 52 | 05018485 0395 | HOSE ASSY, .25 JIC X 28.00 LG | 2 |
| 53 | 05018650 0033 | LATCH, WING KNOB 1/4 TURN | 1 |
| 54 | 05019070 0046 | LATCH, CAM QUARTER TURN | 1 |
| 55 | 05019070 0010 | REGULATOR, PRESS .8MM ORIFICE | 2 |
| 56 | 05019836 0020 | VALVE, SOLENOID 24VDC 3W | 2 |
| 57 | 09174-325 | GAUGE, PRESSURE 2.50 DIAMETER LIQUID FILLED | 1 |
| 58 | 09870-004 | WEATHERSTRIP, 1/16" X 1" | 3 FT |
| 59 | 94562-002 | PLUG, PORT 1/4" BSPP | 1 |
| 60 | 94855-022 | ADAPTER, 1/8 MBSPP X FNPT | 1 |
| 61 | 94855-044 | ADAPTER, 1/4 MBSPP X FNPT | 3 |



NOTE: ARROWS INDICATE DIRECTION OF REGULATOR ORIENTATION.

FIGURE 8-13. 00717200 0005 (REV 06)

00717200 0005 THROTTLE ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---|-----|
| 1 | 00900112 0012 | BOLT, HEX 5/16-18 X 1 GR8 | 2 |
| 2 | 00900112 0022 | BOLT, HEX 5/16-18 X 1 1/4 GR8 | 1 |
| 3 | 00900112 0023 | BOLT, HEX .3750-16 X 1.250 GR8 | 1 |
| 4 | 00900165 0003 | NUT, HEX 5/16"-18 GR2 ZINC PLATED | 1 |
| 5 | 00900214 0003 | NUT, HEX JAM 5/16-24 GR2 | 1 |
| 6 | 00900215 0006 | NUT, HEX JAM 5/8-18 SS | 1 |
| 7 | 00900232 0015 | SCREW, 3/8-24 X 1" LG GR5 | 1 |
| 8 | 00900303 0003 | WASHER, LOCK .375 STAINLESS | 1 |
| 9 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 8 |
| 10 | 00900324 0008 | WASHER, FLAT 5/16 SAE STD | 2 |
| 11 | 00900324 0009 | WASHER, FLAT 3/8 SAE STD | 3 |
| 12 | 00900391 0013 | BOLT, TPHMS 1/4-20 X 1.00 SS W NYL | 2 |
| 13 | 00900490 0062 | NUT, NYLON 5/16-18 ZN PLT | 3 |
| 14 | 00900490 0071 | NUT, NYLOC .250-20 ZN PLT | 2 |
| 15 | 00900490 0081 | NUT, NYLOC 3/8-16 ZINC PLATED | 1 |
| 16 | 00900493 0001 | NUT, NYLOC M6X1.00 ZINC PLATED | 8 |
| 17 | 00901100 0001 | TEE, MXFXF .25NPT 5000# | 1 |
| 18 | 00901100 0006 | TEE, MXFXF .125NPT 5000# | 1 |
| 19 | 00901101 0002 | TEE, PIPE .250 NPT 3000# SS | 1 |
| 20 | 00901104 0002 | CROSS, .25 NPT 5000# SS | 2 |
| 21 | 00901136 0002 | UNION, PIPE 1/4" FNPT SS 3000# | 2 |
| 22 | 00901154 0001 | BUSHING, NPT 1/4 X 1/8 3000# SS | 1 |
| 23 | 00901177 0128 | NIPPLE, PIPE .25 X 4.00 SCH 80 GLV | 1 |
| 24 | 00901925 0002 | PLUG, PIPE, 1/4 NPT, SOCKET HD, SS | 2 |
| 25 | 00902905 0001 | CLAMP, SUPPORT .50 ID | 2 |
| 26 | 00906060 0004 | NIPPLE, HEX .250 NPT SST 7200# | 10 |
| 27 | 00907235 0042 | ADAPTER, 1/8 NPT X 1/4 JIC 6000# SS | 1 |
| 28 | 00907235 0044 | ADAPTER, 1/4 NPT X 1/4 JIC 6000# SS | 1 |
| 29 | 00907256 0042 | ELBOW, 90° JIC X 1/8 NPT 6000# SS | 1 |
| 30 | 00907256 0044 | ELBOW, 90° JIC X 1/4 NPT 6000# SS | 3 |
| 31 | 00907485 0005 | ROD END, SPHER 5/16 X 5/16-24 | 1 |
| 32 | 00907485 0006 | ROD END, SPHER 3/8 X 3/8-24 | 1 |
| 33 | 00909088 0010 | NUT, SPEED 1/4-20 U-TYPE | 6 |
| 34 | 00912141 0003 | ADAPTER, BULKHEAD, 1/4 NPT X 1-1/2" | 2 |
| 35 | 01900060 0001 | BOLT, HEX FLANGE 1/4-20 X 3/4 SS | 6 |
| 36 | 01900216 0388 | BRACKET, AIR CYLINDER | 1 |
| 37 | 01900216 0671 | BRACKET, THROTTLE ASSY 950+ | 1 |
| 38 | 01900216 0672 | BRACKET, REGULATOR ASSY 950+ | 2 |
| 39 | 01900464 0363 | DECAL, LOW PRESSURE | 1 |
| 40 | 01900464 0364 | DECAL, HIGH PRESSURE | 1 |
| 41 | 01900696 0012 | GROMMET, 1.25 ID X 1.75 OD X .094 PANEL THK | 1 |
| 42 | 01900752 0105 | HINGE, BLACK ZINC, 950+ | 2 |
| 43 | 01900930 0013 | ORIFICE, .031 X 1/8" MNPT BRASS | 1 |
| 44 | 01900930 0020 | ORIFICE, .063 X .13NPT BRASS | 1 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---|------|
| 45 | 01900930 0034 | ORIFICE, .047 ID 1/4 M/FPT | 1 |
| 46 | 01901000 0996 | PANEL, THROTTLE BRACKET COVER | 1 |
| 47 | 01901520 0193 | SUPPORT, AIR CYLINDER | 1 |
| 48 | 01901520 0311 | SUPPORT, THROTTLE CYLINDER | 1 |
| 49 | 05017685 0008 | REMOTE SPEED CONTROL, CAT | 1 |
| 50 | 05017820 0028 | CYLINDER, AIR 1-1/16X3 STROKE | 1 |
| 51 | 05018485 0392 | HOSE ASSY, .25 JIC X 19 LG | 1 |
| 52 | 05018485 0395 | HOSE ASSY, .25 JIC X 28.00 LG | 2 |
| 53 | 05018650 0033 | LATCH, WING KNOB 1/4 TURN | 1 |
| 54 | 05019070 0046 | LATCH, CAM QUARTER TURN | 1 |
| 55 | 05019070 0010 | REGULATOR, PRESS .8MM ORIFICE | 2 |
| 56 | 05019836 0020 | VALVE, SOLENOID 24VDC 3W | 2 |
| 57 | 09174-325 | GAUGE, PRESSURE 2.50 DIAMETER LIQUID FILLED | 1 |
| 58 | 09870-004 | WEATHERSTRIP, 1/16" X 1" | 3 FT |
| 59 | 94562-002 | PLUG, PORT 1/4" BSPP | 1 |
| 60 | 94855-022 | ADAPTER, 1/8 MBSPP X FNPT | 1 |
| 61 | 94855-044 | ADAPTER, 1/4 MBSPP X FNPT | 3 |

THROTTLE ASSEMBLY (CONTINUED)

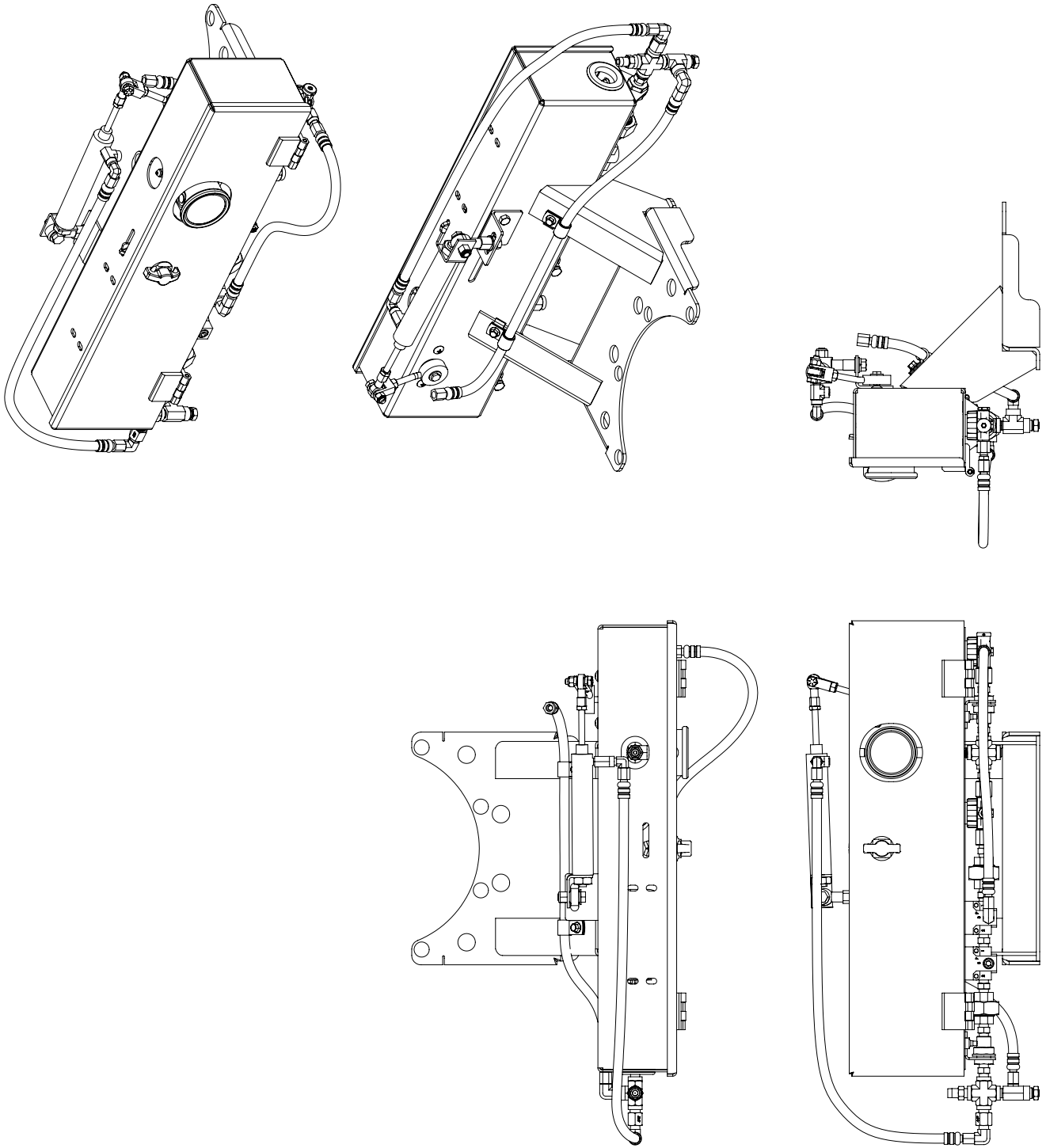


FIGURE 8-14. 00717200 0005 (REV 06)

8.12 AIR FILTER ASSEMBLY

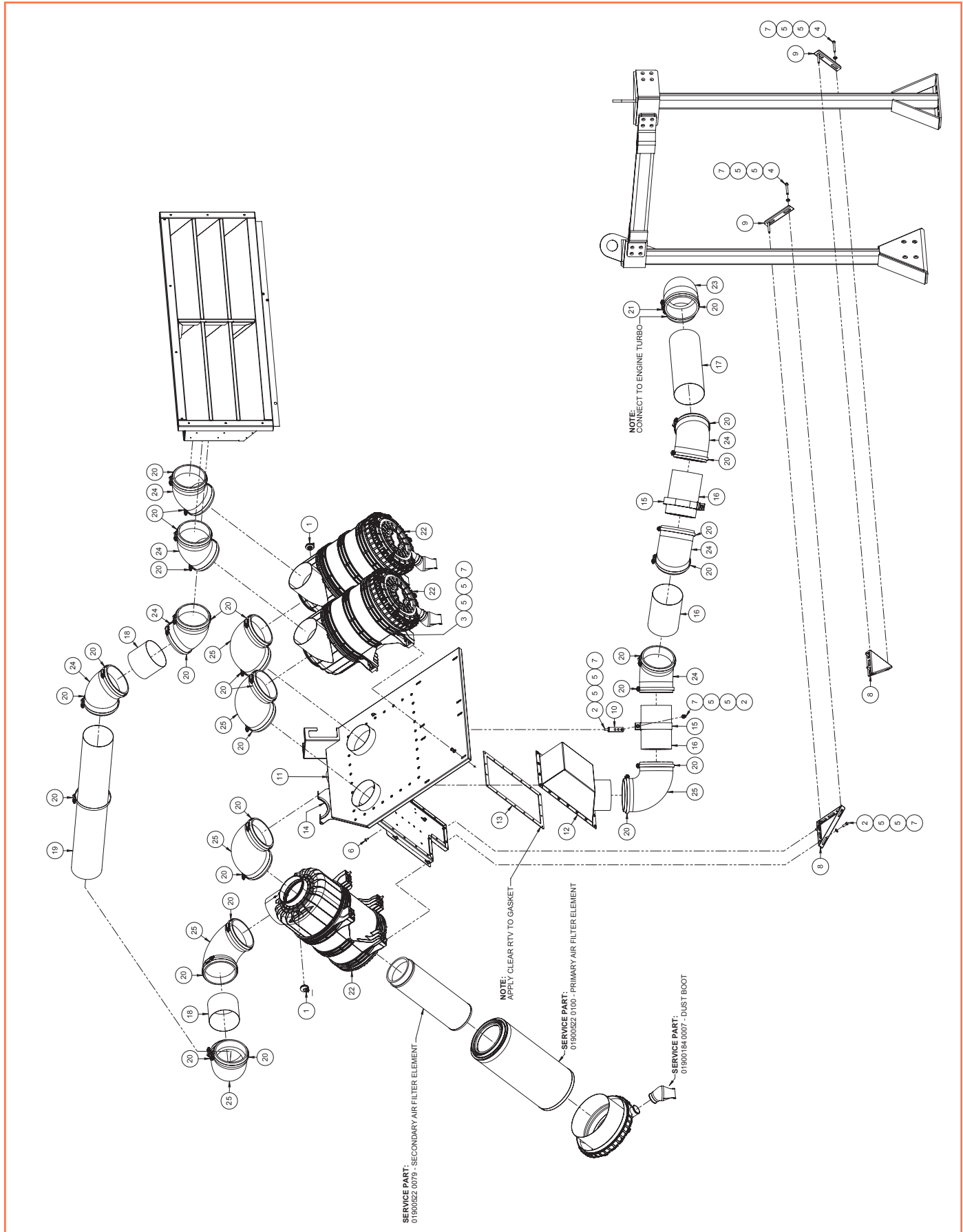


FIGURE 8-15. 00717642 0202 (REV 02)

00717642 0202 AIR FILTER ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|-------------------------------------|-----|
| 1 | 00345-021 | SWITCH, VACUUM AIR FTL 70MBAR | 2 |
| 2 | 00900112 0013 | BOLT, HEX 3/8-16 X 1 GR8 | 6 |
| 3 | 00900112 0043 | BOLT, HEX 3/8-16 X 1 3/4 GR8 | 12 |
| 4 | 00900112 0093 | BOLT, HEX 3/8-16 X 3 GR8 | 4 |
| 5 | 00900324 0009 | WASHER, FLAT 3/8 SAE STD | 44 |
| 6 | 00900391 0002 | BOLT, TPHMS .250-20 X .750 SS W NYL | 50 |
| 7 | 00906953 0006 | NUT, TOPLOCK 3/8-16 18-8 SST | 22 |
| 8 | 01900216 0619 | BRACKET, AIR FILTER MOUNT | 2 |
| 9 | 01900216 0620 | BRACKET, AIR FILTER TIE DOWN | 2 |
| 10 | 01900216 0646 | BRACKET, CLAMP HANGER 950+ | 1 |
| 11 | 01900216 0697 | BRACKET, AIR FILTER MOUNT 950+ | 1 |
| 12 | 01900216 0699 | BRACKET, INTAKE DUCT ENG 950+ | 1 |
| 13 | 01900664 0041 | GASKET, INTAKE DUCT ENG 950+ | 1 |
| 14 | 01901295 0022 | SEAL, EDGE-GRIP BULB ON SIDE | 1 |
| 15 | 01901480 0053 | STRAP, HANGING CLAMP 8.30 ID | 2 |
| 16 | 01901573 0004 | TUBE, 7"OD X 10" LG | 3 |
| 17 | 01901573 0005 | TUBE, 7"OD X 17.5" LG | 1 |
| 18 | 01901573 0006 | TUBE, 7"OD X 5.5" LG | 2 |
| 19 | 01901573 0007 | TUBE, 7"OD X 43" LG | 1 |
| 20 | 05017570 0053 | CLAMP, CON TORQUE 7.25 - 8.125 | 28 |
| 21 | 05017570 0055 | CLAMP, CON TORQUE 6.25 - 7.125 | 1 |
| 22 | 05018174 0053 | FILTER, AIR 950+ NEW DESIGN | 3 |
| 23 | 91411-067 | ELBOW, RUBBER 6 X 7 | 1 |
| 24 | 91411-070 | ELBOW, 45° RUBBER 7.00 ID | 7 |
| 25 | 91411-077 | ELBOW, 90° RUBBER 7.00 ID | 6 |

8.13 RECEIVER ASSEMBLY

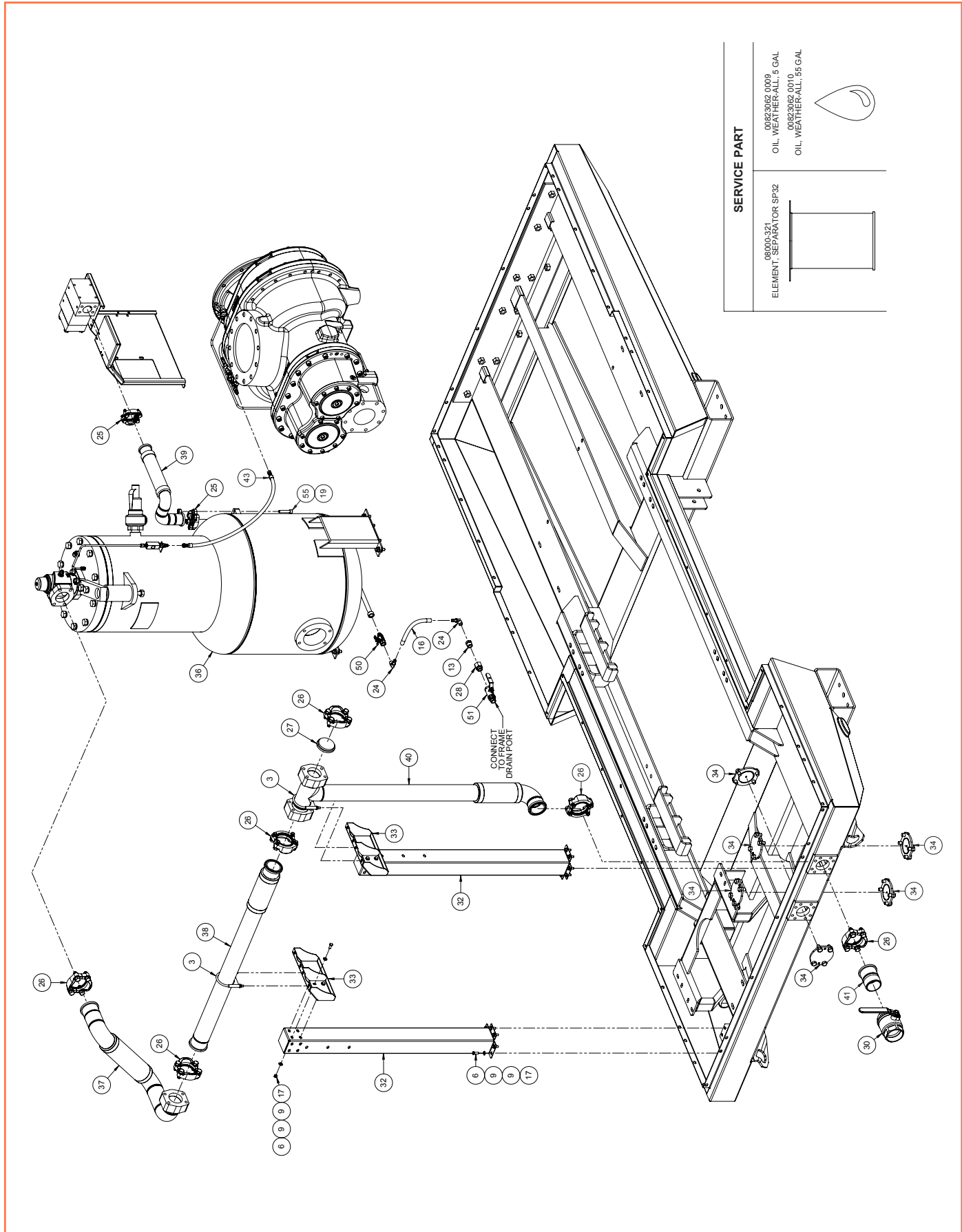


FIGURE 8-16. 00717884 0204 (REV 03)

00717884 0204 RECEIVER ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|-------------------------------------|-----|
| 1 | 00023-00355 | ADAPTER, OIL RETURN ORIFICE | 1 |
| 2 | 00519470 0001 | CLAMP, EXHAUST 2.5 GM STYLE | 1 |
| 3 | 00519470 0014 | CLAMP, EXHAUST 3-1/2 | 2 |
| 4 | 00543241 0003 | GAUGE, SIGHT SCAVENGE LINE SS | 1 |
| 5 | 00543286 0054 | CONN, 5/16" X 1/4" MPT BORED | 1 |
| 6 | 00900112 0013 | BOLT, HEX 3/8-16 X 1 GR8 | 20 |
| 7 | 00900112 0034 | BOLT, HEX 1/2-13 X 1 1/2 GR8 | 8 |
| 8 | 00900303 0064 | WASHER, LOCK .625 STAINLESS | 4 |
| 9 | 00900324 0009 | WASHER, FLAT 3/8 SAE STD | 40 |
| 10 | 00900324 0011 | WASHER, FLAT .500 SAE STD | 16 |
| 11 | 00901056 0042 | ELBOW, 1/4 M X 1/8 F 90° 5000# SS | 1 |
| 12 | 00901154 0004 | BUSHING, NPT 1/2 X 1/8 3000# SS | 1 |
| 13 | 00901154 0009 | BUSHING, NPT 3/4 X 1/2 3000# SS | 1 |
| 14 | 00901925 0002 | PLUG, PIPE, 1/4 NPT, SOCKET HD, SS | 2 |
| 15 | 00901925 0007 | PLUG, 1" NPT HEX SOCKET HD S.S. | 1 |
| 16 | 00906814 0008 | HOSE, 1/2" ID 300 PSI | 1 |
| 17 | 00906953 0006 | NUT, TOPLOCK 3/8-16 18-8 S5T | 20 |
| 18 | 00906953 0008 | NUT, TOPLOCK 1/2-13 18-8 S5T | 8 |
| 19 | 00906953 0010 | NUT, TOPLOCK .625-11 18-8 S5T | 4 |
| 20 | 00907234 2432 | ADAPTER, 1.50 NPT X 2.00 JIC | 1 |
| 21 | 00907235 0064 | ADAPTER, 1/4 NPT X 3/8 JIC 6000# SS | 1 |
| 22 | 00907235 0084 | ADAPTER, 1/4 NPT X 1/2 JIC 6000# SS | 1 |
| 23 | 00907256 0108 | ELBOW, 90° 5/8 JIC X 1/2 NPT SS | 1 |
| 24 | 00908397 1212 | BARB, HOSE 1/2 HOSE X 1/2 MNPT | 2 |
| 25 | 00909753 0032 | KIT, SPLIT FLANGE-SAE 4BOLT 2" | 2 |
| 26 | 00909753 0048 | KIT, SPLIT FLANGE CODE 61 3.00 | 6 |
| 27 | 00909753 0083 | FLANGE, PLUG 3.00 SAE CODE 61 | 1 |
| 28 | 00910625 1212 | ADAPTER, 1 1/16-12 ORB X 3/4 NPT BR | 1 |
| 29 | 00910659 0241 | O-RING, VITON V75-241 | 1 |
| 30 | 00915785 0048 | VALVE, BALL 3 FNPT 600# | 1 |
| 31 | 01663817 0014 | PLUG, VENTED OIL FILL | 1 |
| 32 | 01900216 0623 | BRACKET, DISCHARGE AIR SUPPORT | 2 |
| 33 | 01900216 0632 | BRACKET, AFTRCLR ADJUSTER SUPT | 2 |
| 34 | 01900596 0037 | FLANGE, SHIPPING, 3" CODE 61 | 6 |
| 35 | 03001-125 | ORIFICE INSERT .125" | 1 |
| 36 | 03448-321 | SUMP TANK, 204 | 1 |
| 37 | 03903344 0086 | PIPE ASY, MPV TO MANIFOLD | 1 |
| 38 | 03903344 0090 | PIPE ASY, MANIFOLD JOINT | 1 |
| 39 | 03903344 0091 | PIPE ASY, REC TO THERM VLV | 1 |
| 40 | 03903344 0126 | PIPE ASY, 3.00 MPV TO DISCH-C | 1 |
| 41 | 03903344 0128 | PIPE ASY, 3.00 DISCHARGE AIR | 1 |
| 42 | 05018485 0487 | HOSE ASSY, 2" JIC SAFETY VAVLE | 1 |
| 43 | 05018485 0491 | HOSE ASSY, 3/8 JIC CTL SYSTEM | 1 |
| 44 | 05019205 0010 | SENDER, PRESSURE 0-500PSI | 2 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|-----------------------------------|-----|
| 45 | 05019601 0003 | VALVE, RELIEF 1 1/4" 200# | 1 |
| 46 | 08000-321 | ELEMENT, SEPARATOR SP32 | 1 |
| 47 | 08305-0245AE | SIGHTGLASS, 1-7/8 SAE OIL LEVEL | 1 |
| 48 | 09602-009 | TUBE, SCAV LINE SP32 UPR | 1 |
| 49 | 09610-030SAE | VALVE, MPC 3" SAE | 1 |
| 50 | 09821-001 | VALVE, BALL 3/4MSAE X 1/2FNPT | 1 |
| 51 | 09821-003 | VALVE, BALL 1-1/16MSAE X 3/4 FNPT | 1 |
| 52 | 18577-001 | INSERT, STRAINER | 1 |
| 53 | 90165-006 | NUT, HEX 5/8-11 GR5 | 4 |
| 54 | 92176-127 | STUD 5/8-11 X 3-1/4 | 4 |
| 55 | 92224-139 | BOLT, SOC 1/2-13 X 2-1/2" | 4 |
| 56 | 92960-054 | CONN, MALE 5/16" T X 1/4" MPT | 1 |

RECEIVER ASSEMBLY (CONTINUED)

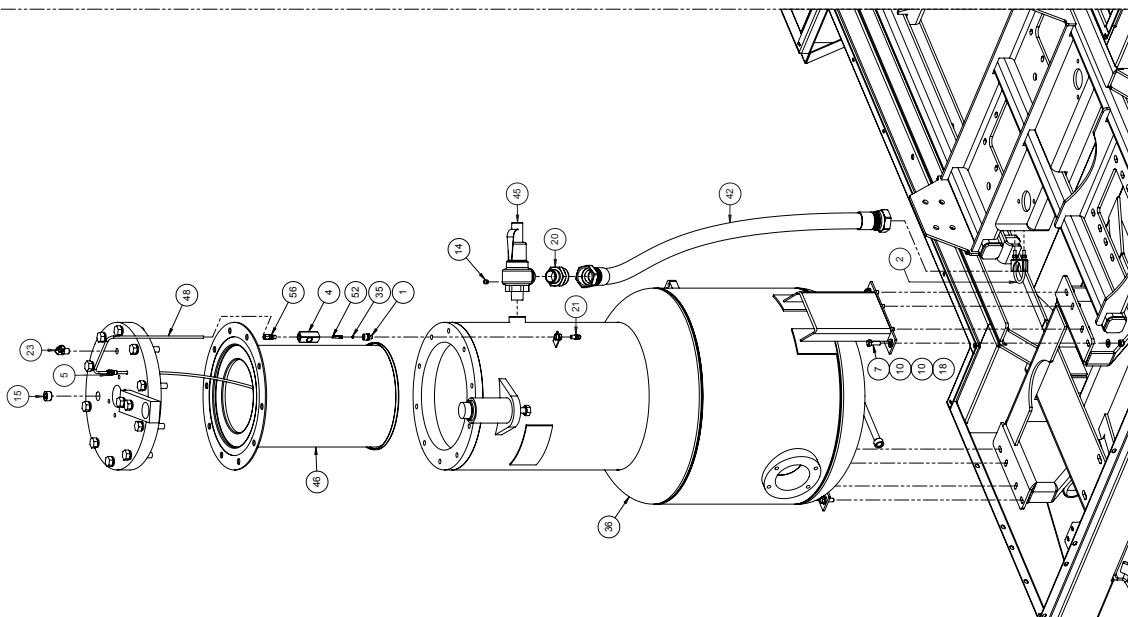
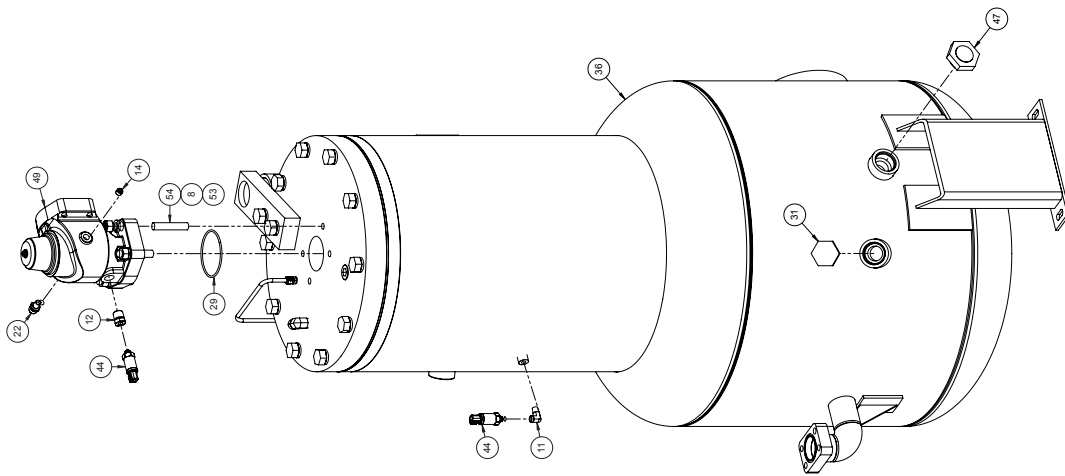
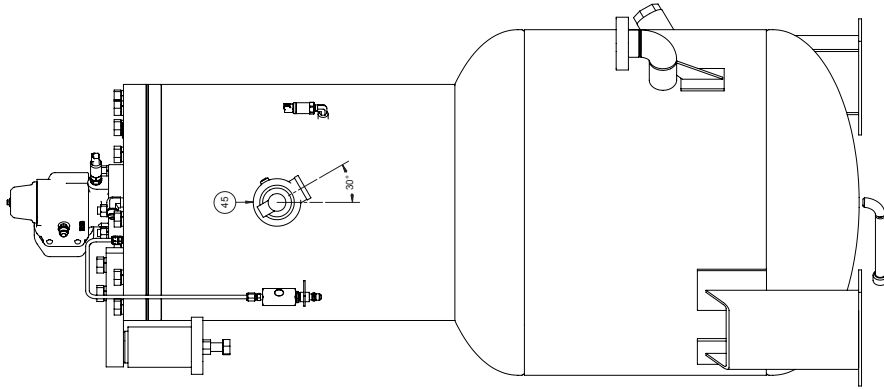


FIGURE 8-17. 00717884 0204 (REV 03)

00717884 0204 RECEIVER ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|-------------------------------------|-----|
| 1 | 00023-00355 | ADAPTER, OIL RETURN ORIFICE | 1 |
| 2 | 00519470 0001 | CLAMP, EXHAUST 2.5 GM STYLE | 1 |
| 3 | 00519470 0014 | CLAMP, EXHAUST 3-1/2 | 2 |
| 4 | 00543241 0003 | GAUGE, SIGHT SCAVENGE LINE SS | 1 |
| 5 | 00543286 0054 | CONN, 5/16" X 1/4" MPT BORED | 1 |
| 6 | 00900112 0013 | BOLT, HEX 3/8-16 X 1 GR8 | 20 |
| 7 | 00900112 0034 | BOLT, HEX 1/2-13 X 1 1/2 GR8 | 8 |
| 8 | 00900303 0064 | WASHER, LOCK .625 STAINLESS | 4 |
| 9 | 00900324 0009 | WASHER, FLAT 3/8 SAE STD | 40 |
| 10 | 00900324 0011 | WASHER, FLAT .500 SAE STD | 16 |
| 11 | 00901056 0042 | ELBOW, 1/4 M X 1/8 F 90° 5000# SS | 1 |
| 12 | 00901154 0004 | BUSHING, NPT 1/2 X 1/8 3000# SS | 1 |
| 13 | 00901154 0009 | BUSHING, NPT 3/4 X 1/2 3000# SS | 1 |
| 14 | 00901925 0002 | PLUG, PIPE, 1/4 NPT, SOCKET HD, SS | 2 |
| 15 | 00901925 0007 | PLUG, 1" NPT HEX SOCKET HD S.S. | 1 |
| 16 | 00906814 0008 | HOSE, 1/2" ID 300 PSI | 1 |
| 17 | 00906953 0006 | NUT, TOPLOCK 3/8-16 18-8 S5T | 20 |
| 18 | 00906953 0008 | NUT, TOPLOCK 1/2-13 18-8 S5T | 8 |
| 19 | 00906953 0010 | NUT, TOPLOCK .625-11 18-8 S5T | 4 |
| 20 | 00907234 2432 | ADAPTER, 1.50 NPT X 2.00 JIC | 1 |
| 21 | 00907235 0064 | ADAPTER, 1/4 NPT X 3/8 JIC 6000# SS | 1 |
| 22 | 00907235 0084 | ADAPTER, 1/4 NPT X 1/2 JIC 6000# SS | 1 |
| 23 | 00907256 0108 | ELBOW, 90° 5/8 JIC X 1/2 NPT SS | 1 |
| 24 | 00908397 1212 | BARB, HOSE 1/2 HOSE X 1/2 MNPT | 2 |
| 25 | 00909753 0032 | KIT, SPLIT FLANGE-SAE 4BOLT 2" | 2 |
| 26 | 00909753 0048 | KIT, SPLIT FLANGE CODE 61 3.00 | 6 |
| 27 | 00909753 0083 | FLANGE, PLUG 3.00 SAE CODE 61 | 1 |
| 28 | 00910625 1212 | ADAPTER, 1 1/16-12 ORB X 3/4 NPT BR | 1 |
| 29 | 00910659 0241 | O-RING, VITON V75-241 | 1 |
| 30 | 00915785 0048 | VALVE, BALL 3 FNPT 600# | 1 |
| 31 | 01663817 0014 | PLUG, VENTED OIL FILL | 1 |
| 32 | 01900216 0623 | BRACKET, DISCHARGE AIR SUPPORT | 2 |
| 33 | 01900216 0632 | BRACKET, AFTRCLR ADJUSTERSUPT | 2 |
| 34 | 01900596 0037 | FLANGE, SHIPPING, 3" CODE 61 | 6 |
| 35 | 03001-125 | ORIFICE INSERT .125" | 1 |
| 36 | 03448-321 | SUMP TANK, 204 | 1 |
| 37 | 03903344 0086 | PIPE ASY, MPV TO MANIFOLD | 1 |
| 38 | 03903344 0090 | PIPE ASY, MANIFOLD JOINT | 1 |
| 39 | 03903344 0091 | PIPE ASY, REC TO THERM VLV | 1 |
| 40 | 03903344 0126 | PIPE ASY, 3.00 MPV TO DISCH-C | 1 |
| 41 | 03903344 0128 | PIPE ASY, 3.00 DISCHARGE AIR | 1 |
| 42 | 05018485 0487 | HOSE ASSY, 2" JIC SAFETY VAVLE | 1 |
| 43 | 05018485 0491 | HOSE ASSY, 3/8 JIC CTL SYSTEM | 1 |
| 44 | 05019205 0010 | SENDER, PRESSURE 0-500PSI | 2 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|-----------------------------------|-----|
| 45 | 05019601 0003 | VALVE, RELIEF 1 1/4" 200# | 1 |
| 46 | 08000-321 | ELEMENT, SEPARATOR SP32 | 1 |
| 47 | 08305-0245AE | SIGHTGLASS, 1-7/8 SAE OIL LEVEL | 1 |
| 48 | 09602-009 | TUBE, SCAV LINE SP32 UPR | 1 |
| 49 | 09610-030SAE | VALVE, MPC 3" SAE | 1 |
| 50 | 09821-001 | VALVE, BALL 3/4MSAE X 1/2FNPT | 1 |
| 51 | 09821-003 | VALVE, BALL 1-1/16MSAE X 3/4 FNPT | 1 |
| 52 | 18577-001 | INSERT, STRAINER | 1 |
| 53 | 90165-006 | NUT, HEX 5/8-11 GR5 | 4 |
| 54 | 92176-127 | STUD 5/8-11 X 3-1/4 | 4 |
| 55 | 92224-139 | BOLT, SOC 1/2-13 X 2-1/2" | 4 |
| 56 | 92960-054 | CONN, MALE 5/16" T X 1/4" MPT | 1 |

8.14 CONTROL TUBING

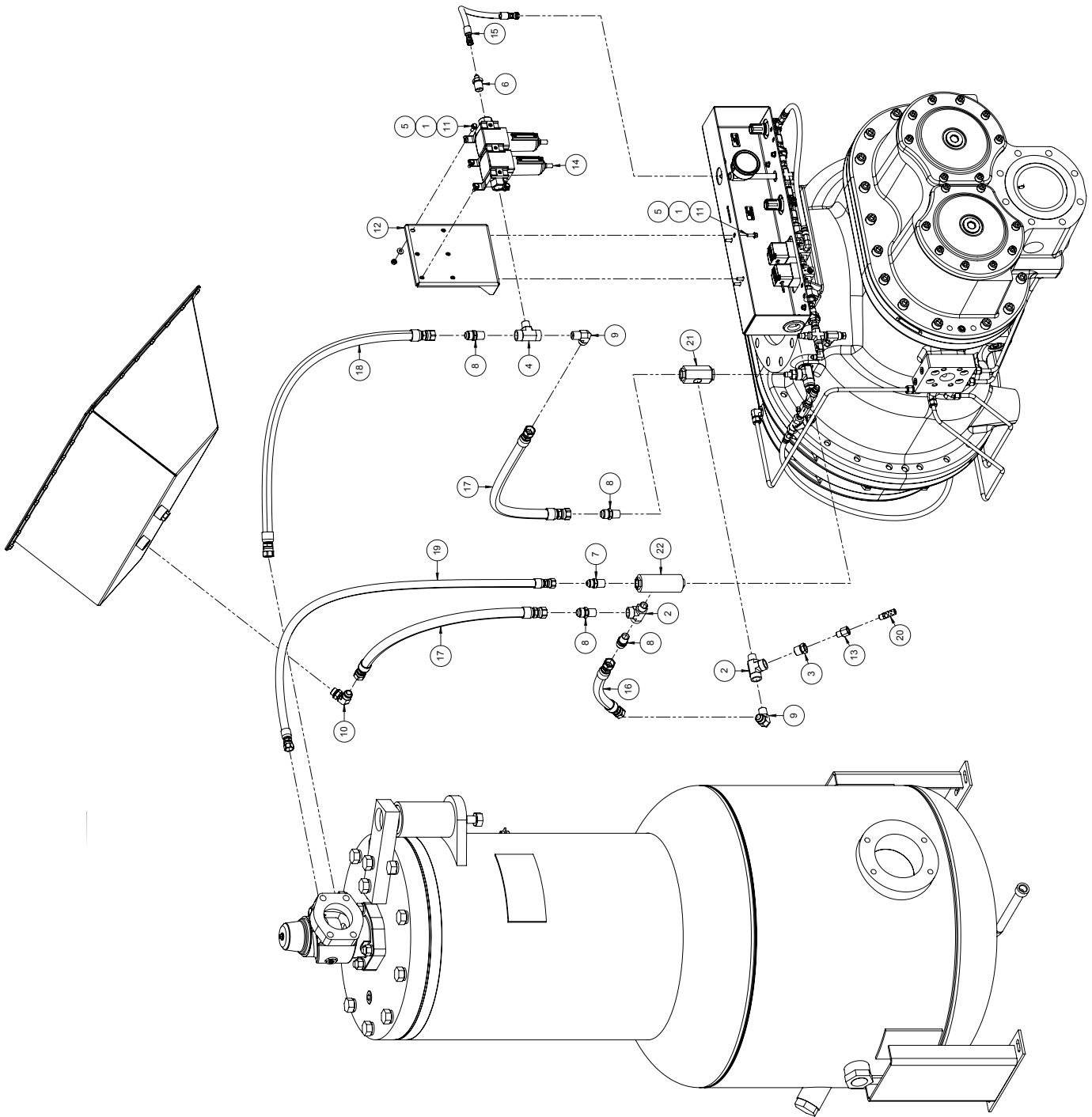


FIGURE 8-18. 00717887 0016 (REV 01)

00717887 0016 CONTROL TUBING

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---------------------------------------|-----|
| 1 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 10 |
| 2 | 00901100 0003 | TEE, MXF XF .5NPT 5000# | 2 |
| 3 | 00901154 0005 | BUSHING,NPT 1/2 X 1/4 3000# SS | 1 |
| 4 | 00906428 0008 | TEE,BRANCH 1/2NPT 5000# S | 1 |
| 5 | 00906953 0004 | NUT,TOPLOCK 1/4-20 18-8 SST | 10 |
| 6 | 00907235 0048 | ADAPTER,1/2NPTX1/4JIC 6000# SS | 1 |
| 7 | 00907235 0088 | ADAPTER,1/2NPTX1/2JIC 6000# SS | 1 |
| 8 | 00907235 0108 | ADAPTER,1/2NPTX5/8JIC 6000# SS | 4 |
| 9 | 00907256 0108 | ELBOW,90° 5/8 JIC X 1/2 NPT SS | 2 |
| 10 | 00910751 0810 | ADAPTER,ELB 90° 3/4MORBX5/8JIC | 1 |
| 11 | 01900060 0001 | BOLT,HEX FLANGE 1/4-20X3/4 SS | 10 |
| 12 | 01900216 0754 | BRACKET, CTL COAL FILTER MOUNT | 1 |
| 13 | 01900930 0034 | ORIFICE, .047 ID 1/4 M/FPT | 1 |
| 14 | 01903000 0823 | ASSY, FILTER 1/2NPT COAL/PART | 1 |
| 15 | 05018485 0468 | HOSE ASSY, 1/4 JIC CTL SYS XH | 1 |
| 16 | 05018485 0488 | HOSE ASSY, 5/8 JIC CTL SYSTEM | 1 |
| 17 | 05018485 0489 | HOSE ASSY, 5/8 JIC CTL SYSTEM | 2 |
| 18 | 05018485 0490 | HOSE ASSY, 5/8 JIC CTL SYSTEM | 1 |
| 19 | 05018485 0495 | HOSE ASSY, 1/2 JIC REC TANK | 1 |
| 20 | 05018785 0014 | MUFFLER, AIR EXHAUST .250 MNPT | 1 |
| 21 | 05019660 0016 | VALVE, BLOWDOWN 1/2" PIPE | 1 |
| 22 | 05019660 0022 | VALVE, N/O PILOT TO CLOSE 1/2" | 1 |

8.15 CONTROL WIRING

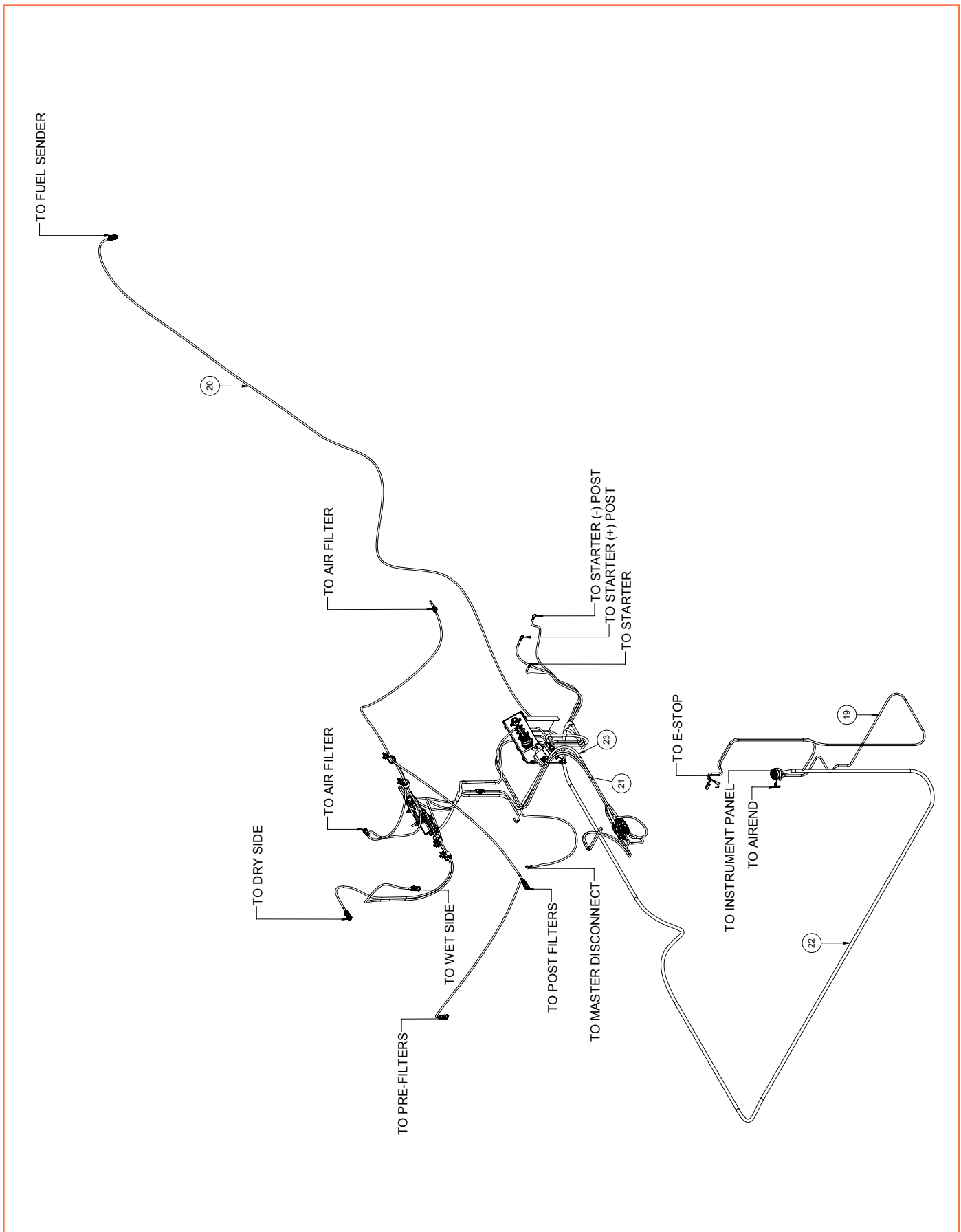


FIGURE 8-19. 00717888 0001 (REV 02)

00717888 0001 CONTROL WIRING

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---|-----|
| 1 | 00900025 0390 | BOLT, .250-20 X .625 STAINLESS STEEL | 5 |
| 2 | 00900112 0021 | BOLT, HEX .250-20 X 1.250 GR8 | 1 |
| 3 | 00900112 0071 | BOLT, HEX .250-20 X 2.500 GR8 | 1 |
| 4 | 00900323 0007 | WASHER, FLAT .250 SAE STD ZINC PLATED | 4 |
| 5 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 2 |
| 6 | 00900389 0027 | BOLT, BUT TON HEAD PHILLIPS 1/4-20 X 3/4 SS | 4 |
| 7 | 00900490 0071 | NUT, NYLOC .250-20 ZINC PLATED | 6 |
| 8 | 00902905 0006 | CLAMP, SUPPORT .94 ID | 5 |
| 9 | 00909088 0010 | NUT, SPEED 1/4-20 U-TYPE | 10 |
| 10 | 00916867 0421 | RIVET, 3/16" X .126 -.250 RANGE | 4 |
| 11 | 00925025 0710 | BOLT, M5-0.8 X 12MM GR 8.8 | 4 |
| 12 | 01900060 0001 | BOLT, HEX FLANGE 1/4-20X3/4 SS | 5 |
| 13 | 01900216 0658 | BRACKET, WIRING JUNCTION | 1 |
| 14 | 01900216 0659 | BRACKET, WIRING JUNCTION COVER | 1 |
| 15 | 01901416 0123 | SPACER, 3/4" OD X 3/8" ID X 7/8" TALL | 1 |
| 16 | 05017669 0022 | WASHER, 9 PIN, J1939 PNL | 1 |
| 17 | 05017669 0023 | NUT, 9 PIN, J1939 PNL | 1 |
| 18 | 05017687 0098 | CONTROLLER, XM500 | 1 |
| 19 | 05018395 0202 | HARNESS, INSTRUMENT PNL PV780 | 1 |
| 20 | 05018395 0234 | HARNESS, XM500 TO SENDERS | 1 |
| 21 | 05018395 0235 | HARNESS, XM500 TO JUNCTION | 1 |
| 22 | 05018395 0236 | HARNESS, PANEL TO JUNCTION | 1 |
| 23 | 05018395 0246 | HARNESS, XM500 OUTPUT RELAY | 1 |
| 24 | 05019280 0009 | RELAY, CONTROL 24VDC CONT. | 1 |

CONTROL WIRING (CONTINUED)

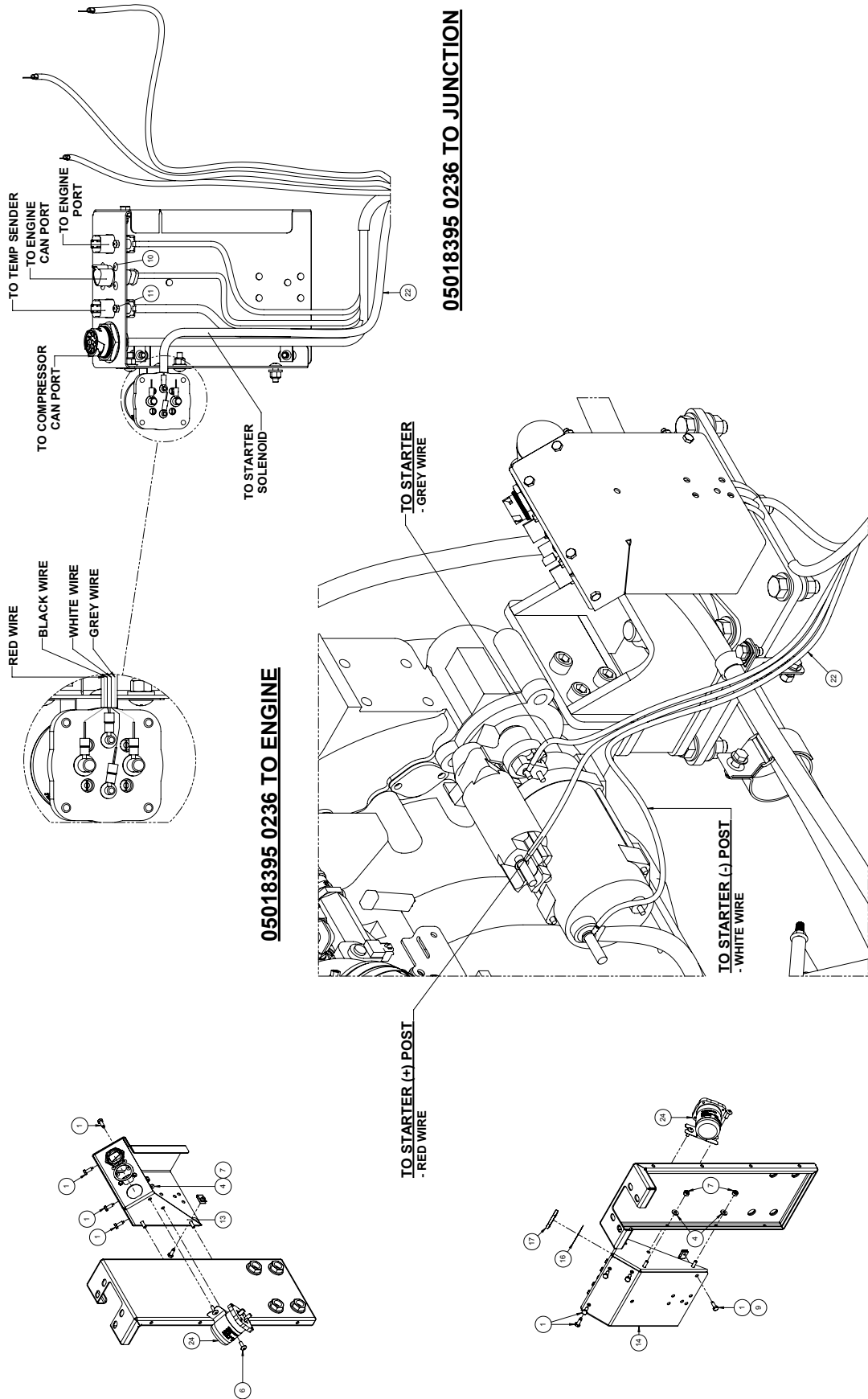
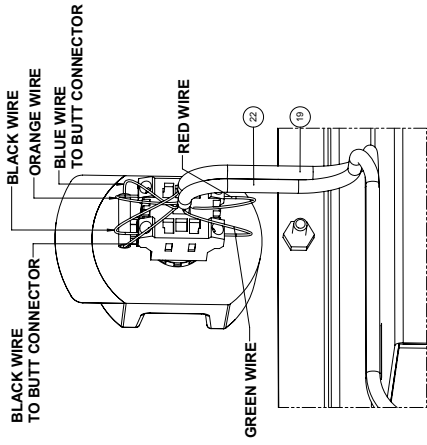


FIGURE 8-20. 00717888 0001 (REV 02)

00717888 0001 CONTROL WIRING

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---|-----|
| 1 | 00900025 0390 | BOLT, .250-20 X .625 STAINLESS STEEL | 5 |
| 2 | 00900112 0021 | BOLT, HEX .250-20 X 1.250 GR8 | 1 |
| 3 | 00900112 0071 | BOLT, HEX .250-20 X 2.500 GR8 | 1 |
| 4 | 00900323 0007 | WASHER, FLAT .250 SAE STD ZINC PLATED | 4 |
| 5 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 2 |
| 6 | 00900389 0027 | BOLT, BUT TON HEAD PHILLIPS 1/4-20 X 3/4 SS | 4 |
| 7 | 00900490 0071 | NUT, NYLOC .250-20 ZINC PLATED | 6 |
| 8 | 00902905 0006 | CLAMP, SUPPORT .94 ID | 5 |
| 9 | 00909088 0010 | NUT, SPEED 1/4-20 U-TYPE | 10 |
| 10 | 00916867 0421 | RIVET, 3/16" X .126 -.250 RANGE | 4 |
| 11 | 00925025 0710 | BOLT, M5-0.8 X 12MM GR 8.8 | 4 |
| 12 | 01900060 0001 | BOLT, HEX FLANGE 1/4-20X3/4 SS | 5 |
| 13 | 01900216 0658 | BRACKET, WIRING JUNCTION | 1 |
| 14 | 01900216 0659 | BRACKET, WIRING JUNCTION COVER | 1 |
| 15 | 01901416 0123 | SPACER, 3/4" OD X 3/8" ID X 7/8" TALL | 1 |
| 16 | 05017669 0022 | WASHER, 9 PIN, J1939 PNL | 1 |
| 17 | 05017669 0023 | NUT, 9 PIN, J1939 PNL | 1 |
| 18 | 05017687 0098 | CONTROLLER, XM500 | 1 |
| 19 | 05018395 0202 | HARNESS, INSTRUMENT PNL PV780 | 1 |
| 20 | 05018395 0234 | HARNESS, XM500 TO SENDERS | 1 |
| 21 | 05018395 0235 | HARNESS, XM500 TO JUNCTION | 1 |
| 22 | 05018395 0236 | HARNESS, PANEL TO JUNCTION | 1 |
| 23 | 05018395 0246 | HARNESS, XM500 OUTPUT RELAY | 1 |
| 24 | 05019280 0009 | RELAY, CONTROL 24VDC CONT. | 1 |

CONTROL WIRING (CONTINUED)



05018395 0236 TO E-STOP

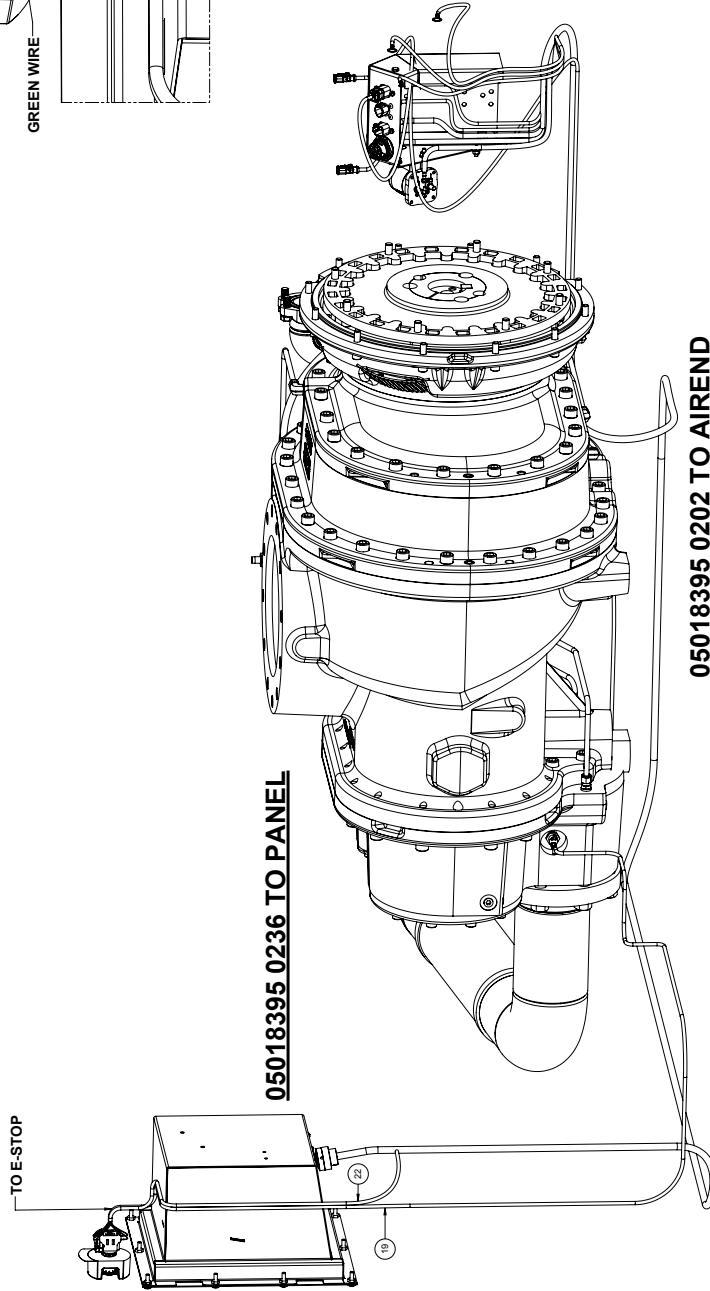


FIGURE 8-21. 00717888 0001 (REV 02)

00717888 0001 CONTROL WIRING

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---|-----|
| 1 | 00900025 0390 | BOLT, .250-20 X .625 STAINLESS STEEL | 5 |
| 2 | 00900112 0021 | BOLT, HEX .250-20 X 1.250 GR8 | 1 |
| 3 | 00900112 0071 | BOLT, HEX .250-20 X 2.500 GR8 | 1 |
| 4 | 00900323 0007 | WASHER, FLAT .250 SAE STD ZINC PLATED | 4 |
| 5 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 2 |
| 6 | 00900389 0027 | BOLT, BUT TON HEAD PHILLIPS 1/4-20 X 3/4 SS | 4 |
| 7 | 00900490 0071 | NUT, NYLOC .250-20 ZINC PLATED | 6 |
| 8 | 00902905 0006 | CLAMP, SUPPORT .94 ID | 5 |
| 9 | 00909088 0010 | NUT, SPEED 1/4-20 U-TYPE | 10 |
| 10 | 00916867 0421 | RIVET, 3/16" X .126 -.250 RANGE | 4 |
| 11 | 00925025 0710 | BOLT, M5-0.8 X 12MM GR 8.8 | 4 |
| 12 | 01900060 0001 | BOLT, HEX FLANGE 1/4-20X3/4 SS | 5 |
| 13 | 01900216 0658 | BRACKET, WIRING JUNCTION | 1 |
| 14 | 01900216 0659 | BRACKET, WIRING JUNCTION COVER | 1 |
| 15 | 01901416 0123 | SPACER, 3/4" OD X 3/8" ID X 7/8" TALL | 1 |
| 16 | 05017669 0022 | WASHER, 9 PIN, J1939 PNL | 1 |
| 17 | 05017669 0023 | NUT, 9 PIN, J1939 PNL | 1 |
| 18 | 05017687 0098 | CONTROLLER, XM500 | 1 |
| 19 | 05018395 0202 | HARNESS, INSTRUMENT PNL PV780 | 1 |
| 20 | 05018395 0234 | HARNESS, XM500 TO SENDERS | 1 |
| 21 | 05018395 0235 | HARNESS, XM500 TO JUNCTION | 1 |
| 22 | 05018395 0236 | HARNESS, PANEL TO JUNCTION | 1 |
| 23 | 05018395 0246 | HARNESS, XM500 OUTPUT RELAY | 1 |
| 24 | 05019280 0009 | RELAY, CONTROL 24VDC CONT. | 1 |

CONTROL WIRING (CONTINUED)

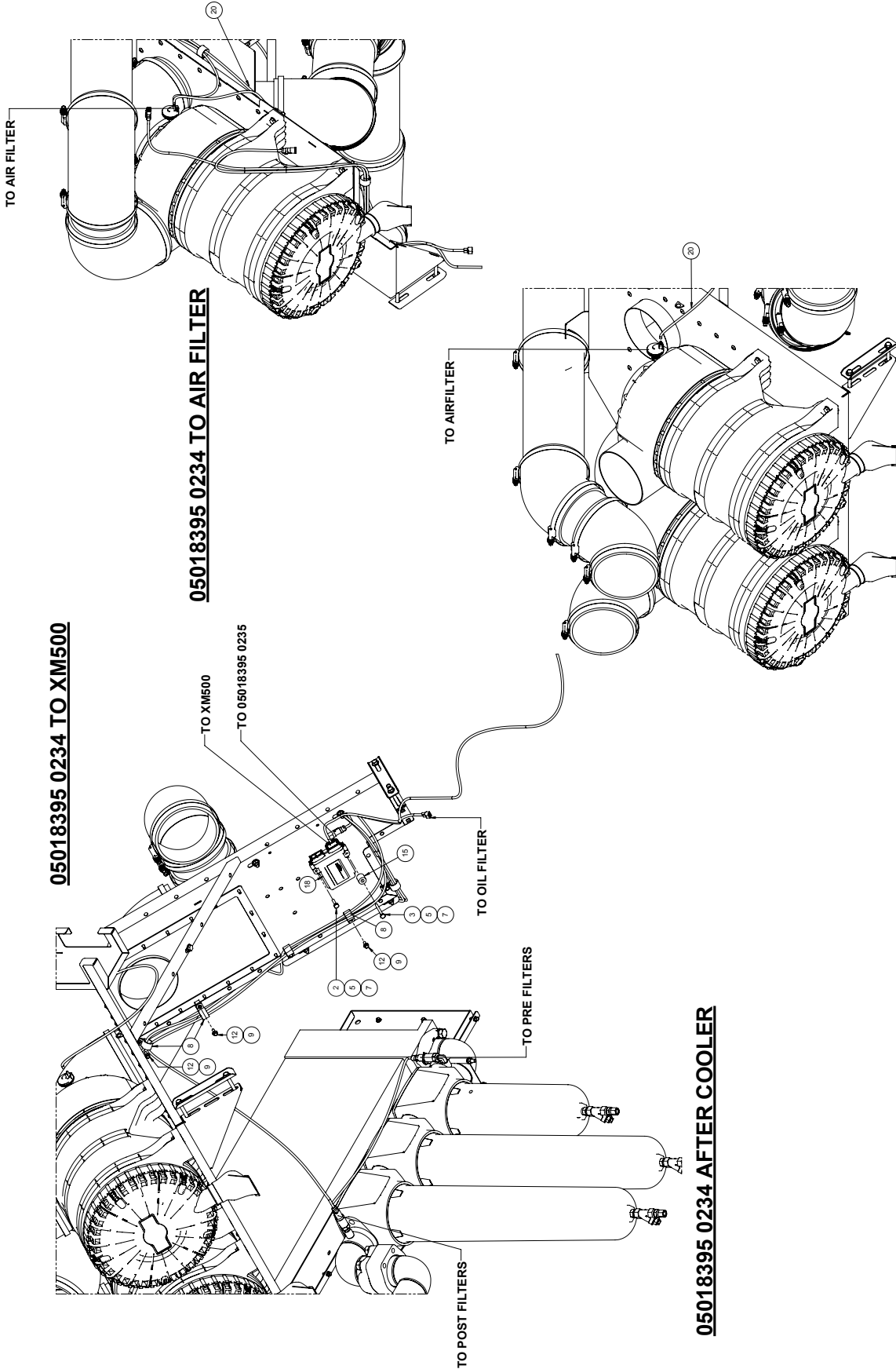


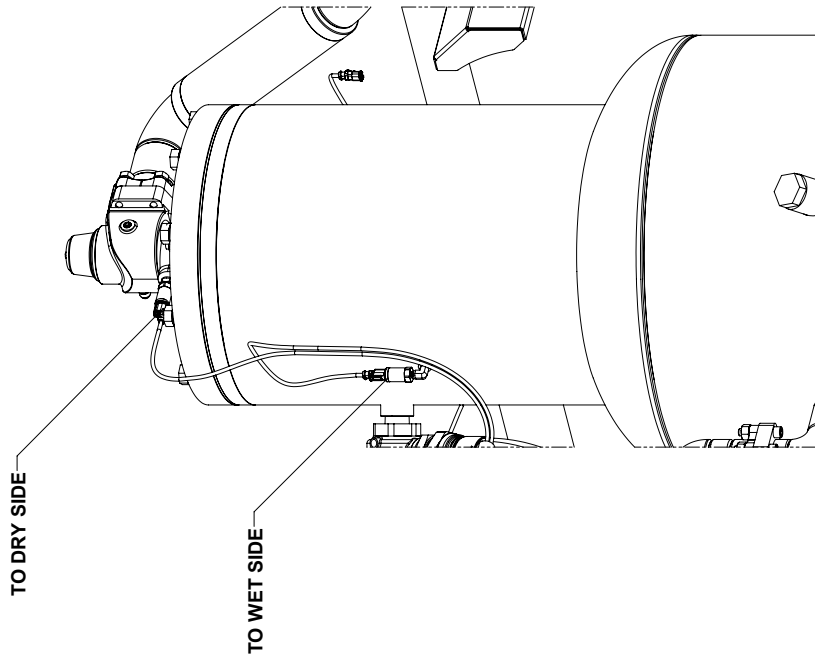
FIGURE 8-22. 00717888 0001 (REV 02)

00717888 0001 CONTROL WIRING

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---|-----|
| 1 | 00900025 0390 | BOLT, .250-20 X .625 STAINLESS STEEL | 5 |
| 2 | 00900112 0021 | BOLT, HEX .250-20 X 1.250 GR8 | 1 |
| 3 | 00900112 0071 | BOLT, HEX .250-20 X 2.500 GR8 | 1 |
| 4 | 00900323 0007 | WASHER, FLAT .250 SAE STD ZINC PLATED | 4 |
| 5 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 2 |
| 6 | 00900389 0027 | BOLT, BUT TON HEAD PHILLIPS 1/4-20 X 3/4 SS | 4 |
| 7 | 00900490 0071 | NUT, NYLOC .250-20 ZINC PLATED | 6 |
| 8 | 00902905 0006 | CLAMP, SUPPORT .94 ID | 5 |
| 9 | 00909088 0010 | NUT, SPEED 1/4-20 U-TYPE | 10 |
| 10 | 00916867 0421 | RIVET, 3/16" X .126 -.250 RANGE | 4 |
| 11 | 00925025 0710 | BOLT, M5-0.8 X 12MM GR 8.8 | 4 |
| 12 | 01900060 0001 | BOLT, HEX FLANGE 1/4-20X3/4 SS | 5 |
| 13 | 01900216 0658 | BRACKET, WIRING JUNCTION | 1 |
| 14 | 01900216 0659 | BRACKET, WIRING JUNCTION COVER | 1 |
| 15 | 01901416 0123 | SPACER, 3/4" OD X 3/8" ID X 7/8" TALL | 1 |
| 16 | 05017669 0022 | WASHER, 9 PIN, J1939 PNL | 1 |
| 17 | 05017669 0023 | NUT, 9 PIN, J1939 PNL | 1 |
| 18 | 05017687 0098 | CONTROLLER, XM500 | 1 |
| 19 | 05018395 0202 | HARNESS, INSTRUMENT PNL PV780 | 1 |
| 20 | 05018395 0234 | HARNESS, XM500 TO SENDERS | 1 |
| 21 | 05018395 0235 | HARNESS, XM500 TO JUNCTION | 1 |
| 22 | 05018395 0236 | HARNESS, PANEL TO JUNCTION | 1 |
| 23 | 05018395 0246 | HARNESS, XM500 OUTPUT RELAY | 1 |
| 24 | 05019280 0009 | RELAY, CONTROL 24VDC CONT. | 1 |

CONTROL WIRING (CONTINUED)

05018395 0234 TO RECEIVER TANK



05018395 0234 TO FUEL SENDER

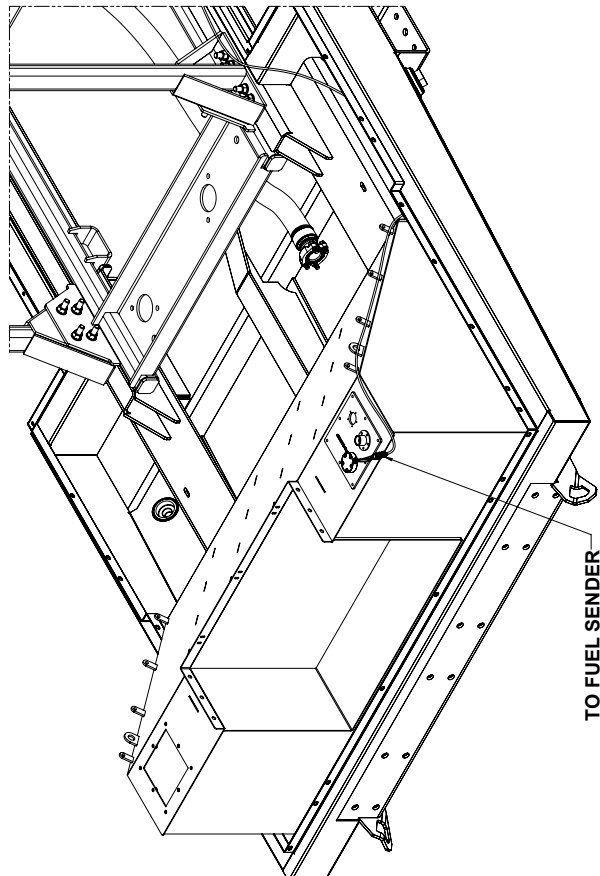


FIGURE 8-23. 00717888 0001 (REV 02)

00717888 0001 CONTROL WIRING

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---|-----|
| 1 | 00900025 0390 | BOLT, .250-20 X .625 STAINLESS STEEL | 5 |
| 2 | 00900112 0021 | BOLT, HEX .250-20 X 1.250 GR8 | 1 |
| 3 | 00900112 0071 | BOLT, HEX .250-20 X 2.500 GR8 | 1 |
| 4 | 00900323 0007 | WASHER, FLAT .250 SAE STD ZINC PLATED | 4 |
| 5 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 2 |
| 6 | 00900389 0027 | BOLT, BUT TON HEAD PHILLIPS 1/4-20 X 3/4 SS | 4 |
| 7 | 00900490 0071 | NUT, NYLOC .250-20 ZINC PLATED | 6 |
| 8 | 00902905 0006 | CLAMP, SUPPORT .94 ID | 5 |
| 9 | 00909088 0010 | NUT, SPEED 1/4-20 U-TYPE | 10 |
| 10 | 00916867 0421 | RIVET, 3/16" X .126 -.250 RANGE | 4 |
| 11 | 00925025 0710 | BOLT, M5-0.8 X 12MM GR 8.8 | 4 |
| 12 | 01900060 0001 | BOLT, HEX FLANGE 1/4-20X3/4 SS | 5 |
| 13 | 01900216 0658 | BRACKET, WIRING JUNCTION | 1 |
| 14 | 01900216 0659 | BRACKET, WIRING JUNCTION COVER | 1 |
| 15 | 01901416 0123 | SPACER, 3/4" OD X 3/8" ID X 7/8" TALL | 1 |
| 16 | 05017669 0022 | WASHER, 9 PIN, J1939 PNL | 1 |
| 17 | 05017669 0023 | NUT, 9 PIN, J1939 PNL | 1 |
| 18 | 05017687 0098 | CONTROLLER, XM500 | 1 |
| 19 | 05018395 0202 | HARNESS, INSTRUMENT PNL PV780 | 1 |
| 20 | 05018395 0234 | HARNESS, XM500 TO SENDERS | 1 |
| 21 | 05018395 0235 | HARNESS, XM500 TO JUNCTION | 1 |
| 22 | 05018395 0236 | HARNESS, PANEL TO JUNCTION | 1 |
| 23 | 05018395 0246 | HARNESS, XM500 OUTPUT RELAY | 1 |
| 24 | 05019280 0009 | RELAY, CONTROL 24VDC CONT. | 1 |

CONTROL WIRING (CONTINUED)

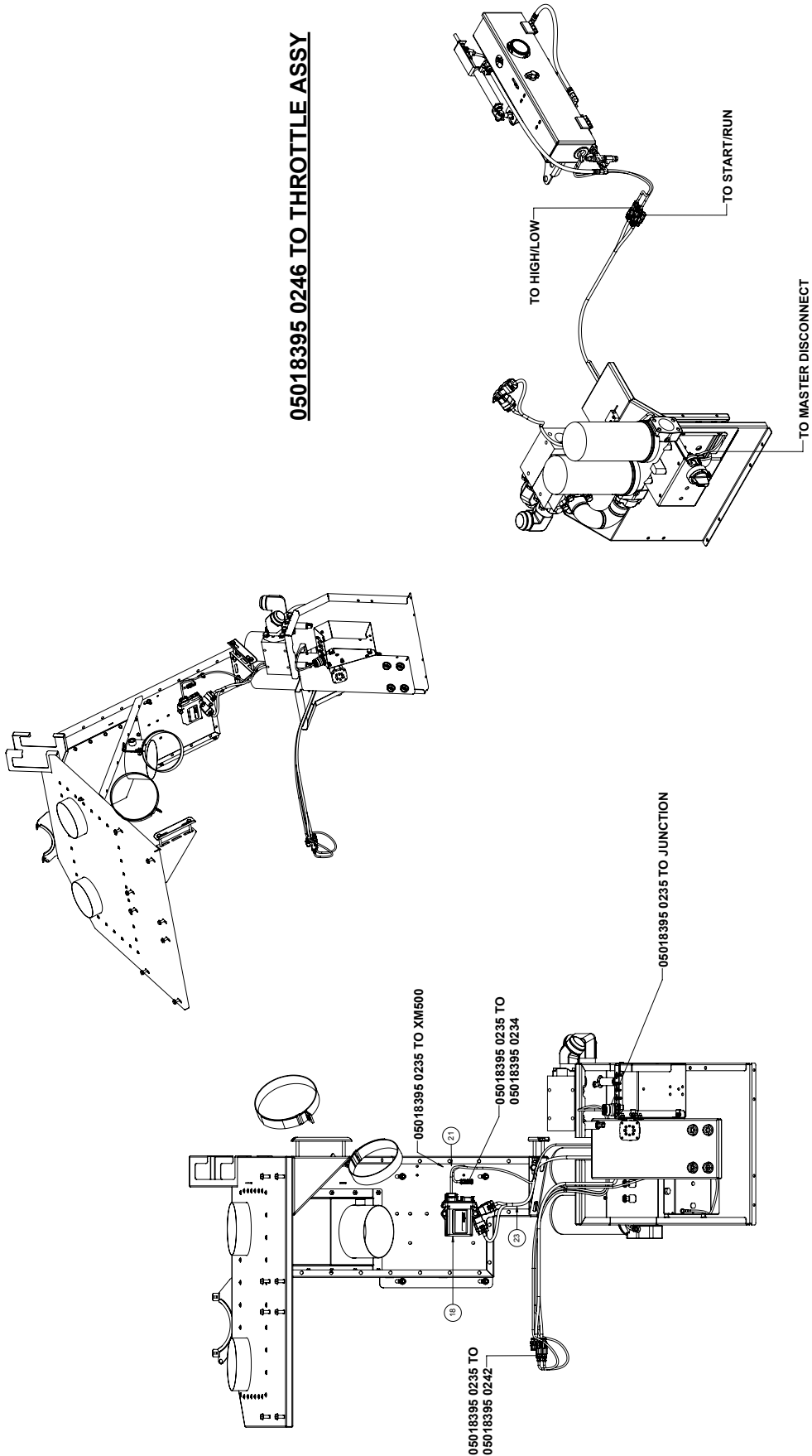


FIGURE 8-24. 00717888 0001 (REV 02)

00717888 0001 CONTROL WIRING

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---|-----|
| 1 | 00900025 0390 | BOLT, .250-20 X .625 STAINLESS STEEL | 5 |
| 2 | 00900112 0021 | BOLT, HEX .250-20 X 1.250 GR8 | 1 |
| 3 | 00900112 0071 | BOLT, HEX .250-20 X 2.500 GR8 | 1 |
| 4 | 00900323 0007 | WASHER, FLAT .250 SAE STD ZINC PLATED | 4 |
| 5 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 2 |
| 6 | 00900389 0027 | BOLT, BUT TON HEAD PHILLIPS 1/4-20 X 3/4 SS | 4 |
| 7 | 00900490 0071 | NUT, NYLOC .250-20 ZINC PLATED | 6 |
| 8 | 00902905 0006 | CLAMP, SUPPORT .94 ID | 5 |
| 9 | 00909088 0010 | NUT, SPEED 1/4-20 U-TYPE | 10 |
| 10 | 00916867 0421 | RIVET, 3/16" X .126 -.250 RANGE | 4 |
| 11 | 00925025 0710 | BOLT, M5-0.8 X 12MM GR 8.8 | 4 |
| 12 | 01900060 0001 | BOLT, HEX FLANGE 1/4-20X3/4 SS | 5 |
| 13 | 01900216 0658 | BRACKET, WIRING JUNCTION | 1 |
| 14 | 01900216 0659 | BRACKET, WIRING JUNCTION COVER | 1 |
| 15 | 01901416 0123 | SPACER, 3/4" OD X 3/8" ID X 7/8" TALL | 1 |
| 16 | 05017669 0022 | WASHER, 9 PIN, J1939 PNL | 1 |
| 17 | 05017669 0023 | NUT, 9 PIN, J1939 PNL | 1 |
| 18 | 05017687 0098 | CONTROLLER, XM500 | 1 |
| 19 | 05018395 0202 | HARNESS, INSTRUMENT PNL PV780 | 1 |
| 20 | 05018395 0234 | HARNESS, XM500 TO SENDERS | 1 |
| 21 | 05018395 0235 | HARNESS, XM500 TO JUNCTION | 1 |
| 22 | 05018395 0236 | HARNESS, PANEL TO JUNCTION | 1 |
| 23 | 05018395 0246 | HARNESS, XM500 OUTPUT RELAY | 1 |
| 24 | 05019280 0009 | RELAY, CONTROL 24VDC CONT. | 1 |

8.16 TELEMETRY ASSEMBLY

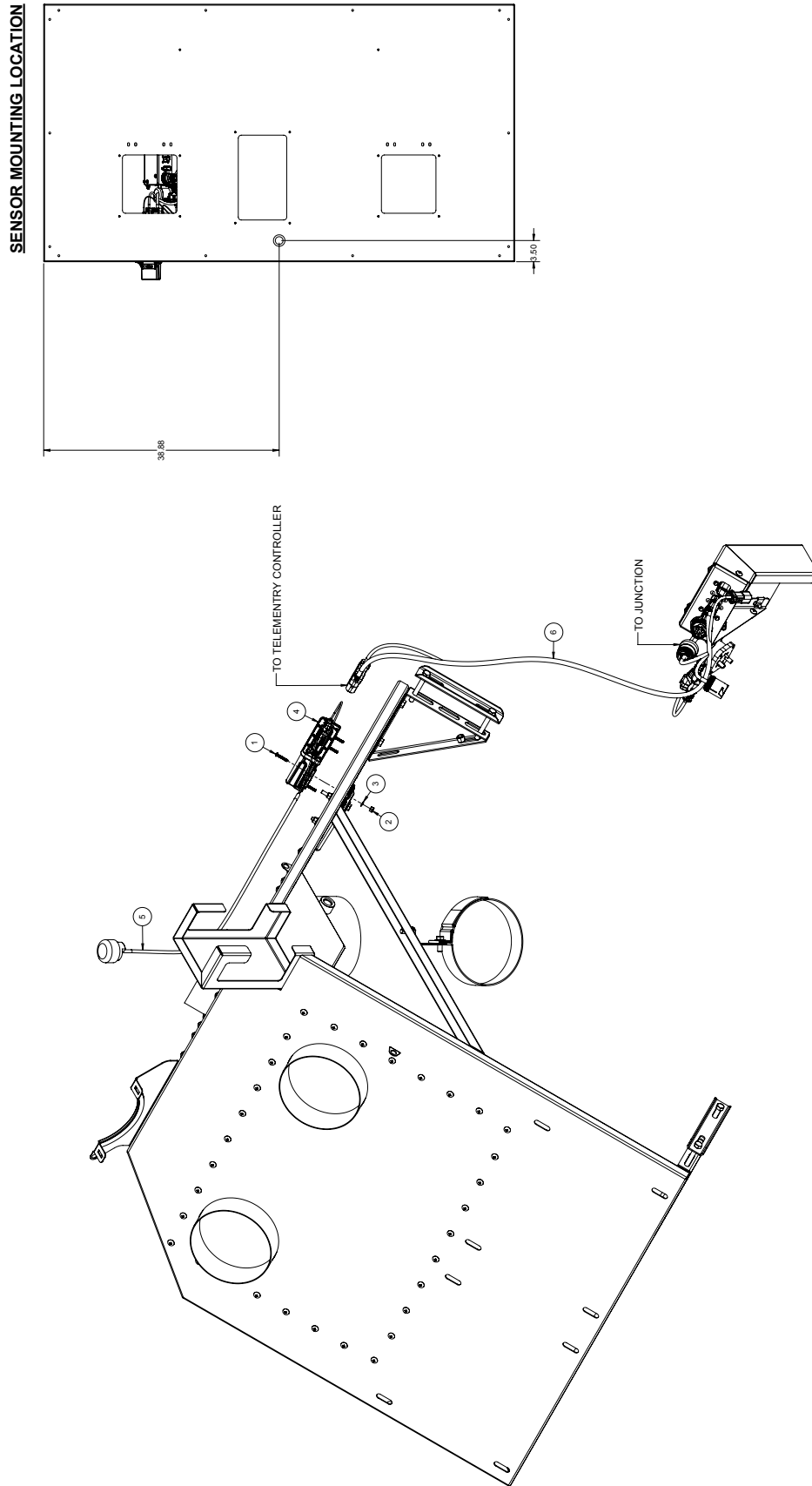


FIGURE 8-25. 00717889 0001 (REV 00)

00717889 0001 TELEMETRY ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|-------------------------------|-----|
| 1 | 00900335 0172 | MACH SCREW, RD HEAD #8 X 1.00 | 4 |
| 2 | 00900490 0068 | NUT, NYLOK #8-32 | 4 |
| 3 | 00900596 0003 | WASHER, SHAKEPROOF PLTD #8 | 4 |
| 4 | 05017687 0104 | CONTROLLER, ZTR M8 | 1 |
| 5 | 05018395 0272 | HARNESS, ZTR ANTENNA | 1 |
| 6 | 05018395 0273 | HARNESS, ZTR M8 TO JUNCTION | 1 |

00717532 0156 COOLING ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|--|-------|
| 1 | 00900112 0025 | BOLT, HEX .6250-11 X 1.250 GR8 | 2 |
| 2 | 00900112 0044 | BOLT, HEX .5000-13 X 1.750 GR8 | 4 |
| 3 | 00900201 0007 | NUT, JAM, 3/4-10 | 2 |
| 4 | 00900324 0011 | WASHER, FLAT .500 SAE STD | 8 |
| 5 | 00900324 0013 | WASHER, FLAT .6250 SAE STD | 2 |
| 6 | 00900324 0015 | WASHER, FLAT 3/4 SAE STD | 2 |
| 7 | 00900391 0013 | BOLT, TPHMS 1/4-20 X 1.00 S5 W NYL | 16 |
| 8 | 00900490 0130 | NUT, NYLOK .250-20 STAINLESS STEEL | 16 |
| 9 | 00903400 0012 | HOSE, 3/4" ID HIGH PRESSURE | 1 |
| 10 | 00906814 0012 | HOSE, 3/4" ID 250 PSI | 14 FT |
| 11 | 00906833 0012 | FITTING, HOSE 3/4 X -12 JIC | 1 |
| 12 | 00906953 0008 | NUT, TOPLOCK 1/2-13-18-8 S5T | 4 |
| 13 | 00907264 1212 | ELBOW, 45° 3/4 NPT X 3/4 JIC | 1 |
| 14 | 00909088 0010 | NUT, SPEED 1/4-20 U-TYPE | 99 |
| 15 | 00910771 1212 | ADAPTER, 45°-12 JIC X -12 MORB | 2 |
| 16 | 01900060 0001 | BOLT, HEX FLANGE .250-20 X .750 S5 | 99 |
| 17 | 01900216 0648 | BRACKET, FAN GUARD MOUNT 950+ | 2 |
| 18 | 01900216 0649 | BRACKET, GUARD TIE DOWN 950+ | 8 |
| 19 | 01900216 0655 | BRACKET, COOLER SUPPORT 950+ | 2 |
| 20 | 01900702 0156 | GUARD, FAN BOTTOM ROAD 950+ | 1 |
| 21 | 01900702 0157 | GUARD, FAN BOTTOM CURB 950+ | 1 |
| 22 | 01900702 0158 | GUARD, FAN MID SIDE 950+ | 2 |
| 23 | 01900702 0159 | GUARD, FAN MID CENTER 950+ | 1 |
| 24 | 01900702 0160 | GUARD, FAN TOP ROAD 950+ | 1 |
| 25 | 01900702 0161 | GUARD, FAN TOP CURB 950+ | 1 |
| 26 | 01900702 0162 | GUARD, FAN TOP CENTER 950+ | 1 |
| 27 | 05017690 0070 | COOLER ASSY, RAD, OIL, CAC T4 | 1 |
| 28 | 05018231 0048 | BARB, HOSE .750 BARB X .750 MNPT BRASS | 1 |
| 29 | 09821-003 | VALVE, BALL 1-1/16 MSAE X 3/4 FNPT | 2 |

8.18 OIL FILTER ASSEMBLY

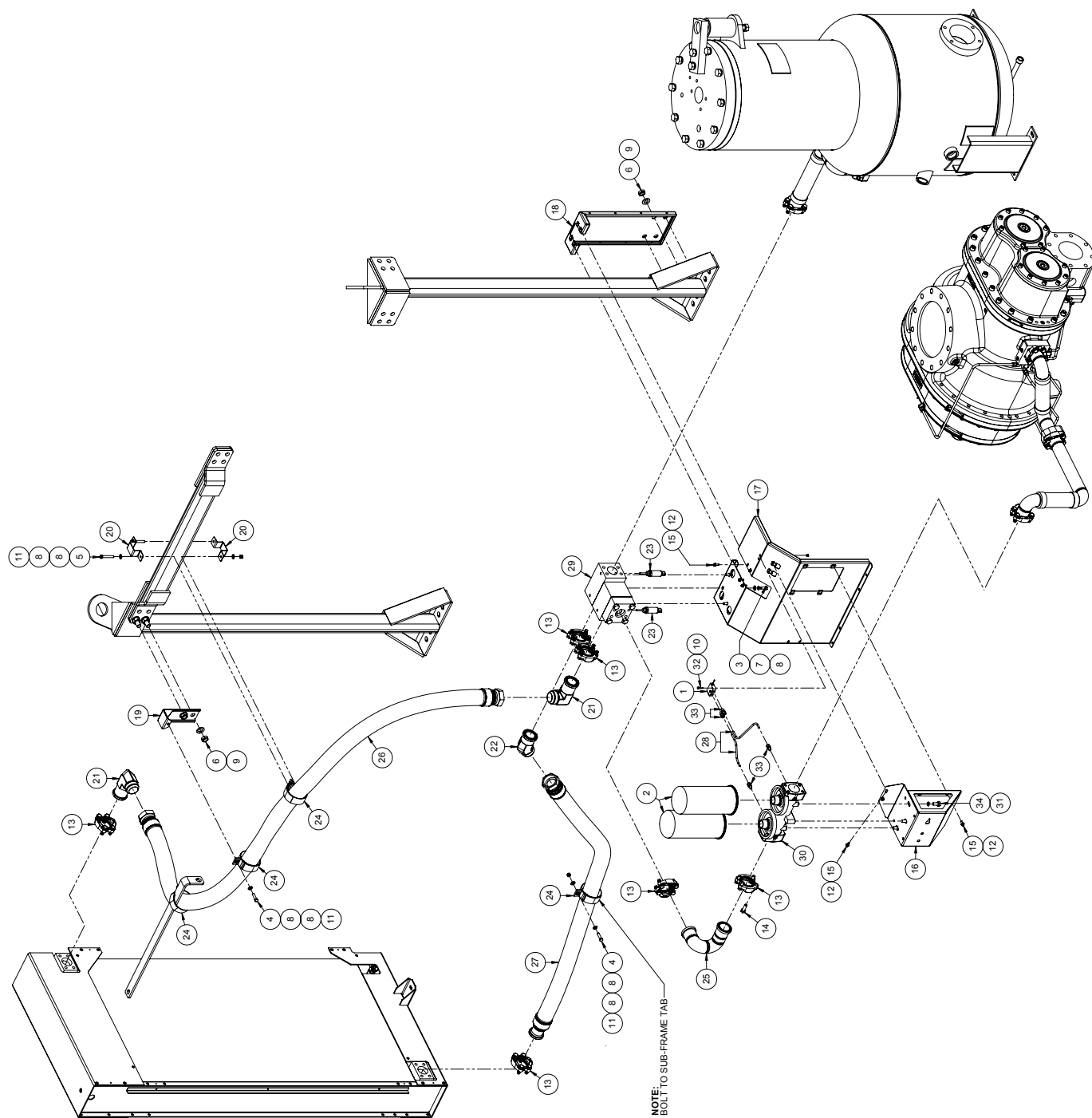
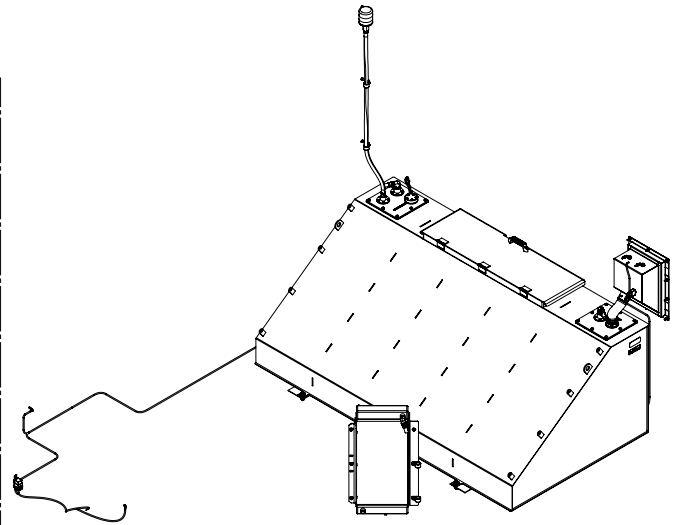
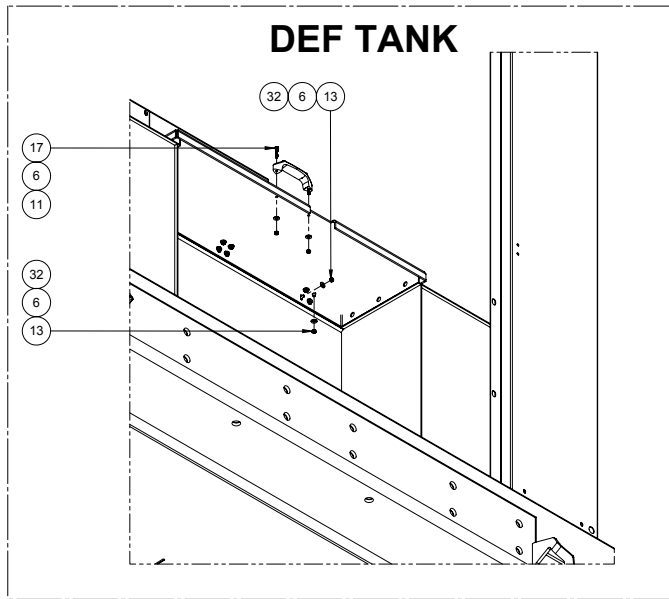


FIGURE 8-27. 00717620 0084 (REV 02)

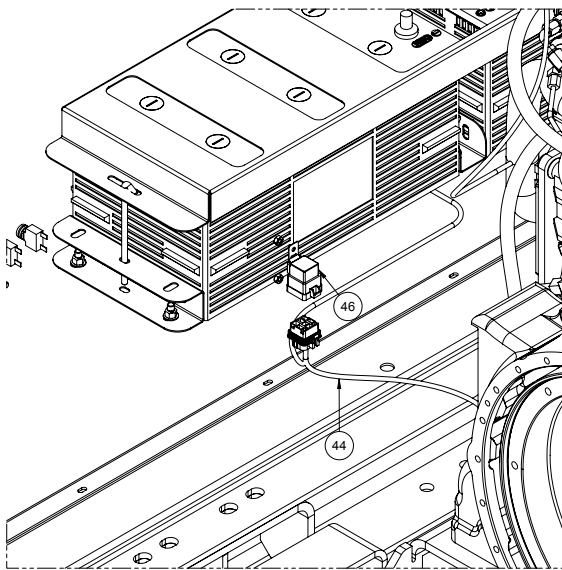
00717620 0084 OIL FILTER ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|--|-----|
| 1 | 00345-016 | SWITCH, DELTA-P-0-20PSID NO | 1 |
| 2 | 00520-018 | ELEMENT, OIL FLT 300/350 | 2 |
| 3 | 00900112 0013 | BOLT, HEX 3/8-16 X 1 GR8 | 3 |
| 4 | 00900112 0033 | BOLT, HEX .3750-16 X 1.500 GR8 | 2 |
| 5 | 00900112 0073 | 00900112 0073 BOLT, HEX .3750-16 X 2.500 GR8 | 2 |
| 6 | 00900201 0007 | NUT, JAM, 3/4-10 | 6 |
| 7 | 00900305 0003 | WASHER, LOCK .375 ZINC PLATED | 3 |
| 8 | 00900324 0009 | WASHER, FLAT .375 SAE STD | 11 |
| 9 | 00900324 0015 | WASHER, FLAT 3/4 SAE STD | 6 |
| 10 | 00900490 0068 | NUT, NYLOK #8-32 | 2 |
| 11 | 00906953 0006 | NUT, TOPLOCK 3/8-16 18-8 SST | 4 |
| 12 | 00909088 0010 | NUT, SPEED 1/4-20 U-TYPE | 10 |
| 13 | 00909753 0032 | KIT, SPLIT FLANGE-SAE 4BOLT 2" | 6 |
| 14 | 00925012 1121 | BOLT, M12-1.75 X 35MM GR8.8 | 4 |
| 15 | 01900060 0001 | BOLT, HEX FLANGE .250-20 X .750 S5 | 10 |
| 16 | 01900216 0627 | BRACKET, OIL FILTER MOUNT | 1 |
| 17 | 01900216 0628 | BRACKET, THERM VALVE SUPPORT | 1 |
| 18 | 01900216 0629 | BRACKET, OIL ASSY BRACE | 1 |
| 19 | 01900216 0630 | BRACKET, UPPER OIL HOSE SUPPORT | 1 |
| 20 | 01900216 0639 | BRACKET, EXH TIE DOWN T3 950+ | 2 |
| 21 | 01900592 0044 | ADAPTER, ELB 2 JIC X 2 SAE | 2 |
| 22 | 01900592 0058 | ADAPTER, 2.00" SAE X 2.00" JIC 45° ELB | 1 |
| 23 | 01901174 0010 | PROBE, TEMP 4-20MA | 2 |
| 24 | 01901480 0054 | STRAP, HANGING CLAMP 3.80 ID | 4 |
| 25 | 03903344 0094 | PIPE ASY, THERM VLV TO FILTER | 1 |
| 26 | 05018485 0433 | HOSE ASSY, 2" X 140" LG. JIC | 1 |
| 27 | 05018485 0444 | HOSE ASSY, 2" X 81" LG. JIC/SAE | 1 |
| 28 | 05019550 0170 | TUBE, FILTER DIFFERENTIAL | 2 |
| 29 | 05019660 0033 | VALVE, THERMAL 2" CODE-61 165 F | 1 |
| 30 | 08415-006 | HEAD, FILTER (DUAL) 300-350 | 1 |
| 31 | 90306-120 | WASHER, LOCK 1/4 HI-COLLAR | 3 |
| 32 | 90364-172 | SCREW, PHIL PANHD 8-32X1 PLTD | 2 |
| 33 | 92960-003 | CONN, MALE 1/4"TX1/8"IMPT | 4 |
| 34 | 95201-117 | BOLT, HHC M12-1.75 X 2.5 | 3 |

8.19 FUEL TANK ASSEMBLY



RELAY LOCATION



FUEL FILL

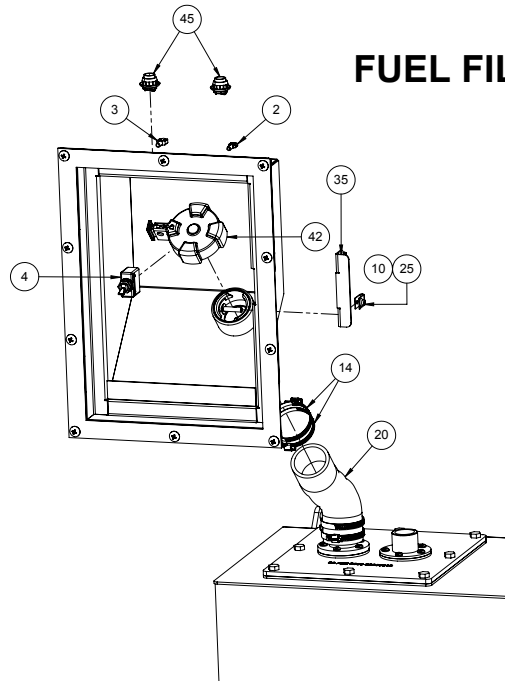


FIGURE 8-28. 00717972 0121 (REV 04)

00717972 0121 FUEL TANK ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---|------|
| 1 | 01900592 0053 | ADAPTER, .500 MNPT X .750-16 UNF ORING | 1 |
| 2 | 00602110 0006 | TERMINAL, FEMALE QUICK DISCONNECT 1/4" TAB, 16-14 AWG NYLON INSULATED | 1 |
| 3 | 00602110 0007 | TERMINAL, MALE QUICK DISCONNECT | 1 |
| 4 | 00602114 0028 | SWITCH, CIRCUIT BREAKER 10AMP | 1 |
| 5 | 00900112 0034 | BOLT, HEX 1/2-13 X 1 1/2 GR8 | 4 |
| 6 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 26 |
| 7 | 00900324 0011 | WASHER, FLAT .500 SAE STD | 8 |
| 8 | 00900336 0238 | SCREW, #10-24 X 1.250 O-RING | 25 |
| 9 | 00900336 0312 | BOLT, .3125-18 X 1.00 WITH ORING | 16 |
| 10 | 00900391 0013 | BOLT, TPHMS 1/4-20 X 1.00 SS W NYL | 12 |
| 11 | 00900490 0064 | NUT, NYLOK 10-24 ZN PLT | 2 |
| 12 | 00900490 0130 | NUT, NYLOK .250-20 STAINLESS STEEL | 12 |
| 13 | 00900493 0001 | NUT, NYLOK M6X1.00 ZINC PLATED | 12 |
| 14 | 00902319 0008 | CLAMP, HOSE 1-5/16 - 2-1/4 | 4 |
| 15 | 00902905 0006 | CLAMP, SUPPORT .94 ID | 4 |
| 16 | 00902905 0015 | CLAMP, SUPPORT 2.75" ID | 1 |
| 17 | 00905850 0108 | SCREW, PAN HD, 10-24 X 1-1/4 | 2 |
| 18 | 00906067 0008 | COUPLING, HEX 1/2NPT 6000# SS | 1 |
| 19 | 00906814 0008 | HOSE, 1/2" ID 300 PSI | 4 FT |
| 20 | 00906814 0013 | HOSE, 1 3/4"ID FUEL FILL NECK | 1 FT |
| 21 | 00906833 0010 | FITTING, HOSE, 5/8 X 7/8-14JIC | 3 |
| 22 | 00906953 0008 | NUT, TOPLOCK 1/2-13 18-8 SST | 4 |
| 23 | 00907254 0108 | ELBOW, 1/2" NPT X 10 JIC | 1 |
| 24 | 00907254 1012 | ELBOW, 3/4" NPT X 10 JIC | 2 |
| 25 | 00909088 0010 | NUT, SPEED 1/4-20 U-TYPE | 2 |
| 26 | 01225508 | GASKET, FUEL SENDER | 5 |
| 27 | 01900060 0001 | BOLT, HEX FLANGE 1/4-20X3/4 SS | 9 |
| 28 | 01900216 0650 | BRACKET, FUEL COOLER MOUNT 950+ | 1 |
| 29 | 01900520 0046 | FILTER, ELEMENT FUEL TANK VENT 10 MICRON | 1 |
| 30 | 01900546 0014 | PAD, FUEL TANK 950+ | 3 |
| 31 | 01900664 0030 | GASKET, SENDER MOUNT PLATE | 2 |
| 32 | 01900752 0105 | HINGE, BLACK ZINC, 950+ | 3 |
| 33 | 01901000 0838 | PANEL, SENDER SENSOR & INSP | 1 |
| 34 | 01901000 0856 | PANEL, FUEL TANK 3 PORTS AND INSPECTION D750-900 | 1 |
| 35 | 01901000 0948 | PANEL, STRIKE PLATE 950+ | 1 |
| 36 | 01901000 0974 | PANEL, DEF TANK COVER | 1 |
| 37 | 01901000 0977 | PANEL, FUEL FILL BACK | 1 |
| 38 | 03272-001 | HANDLE, DOOR PULL 185P2 | 1 |
| 39 | 03903488 0072 | TUBE, BULKHEAD .500 FNPT | 1 |
| 40 | 03903488 0077 | TUBE, FUEL FILL 950+ | 1 |
| 41 | 03903488 0078 | TUBE, FUEL PICKUP D750-900 | 2 |
| 42 | 05017457 0032 | CAP,FUEL - VENTED 3" LOCK GRN | 1 |
| 43 | 05017705 0055 | OIL COOLER, D185P1JD | 1 |
| 44 | 05018395 0243 | HARNESS, FUEL FILL LIGHTS 950+ | 1 |
| 45 | 05018635 0076 | LAMP, AMB, CLEARANCE MARKER | 2 |
| 46 | 05019085 0021 | RELAY SPDT 5-PIN | 1 |
| 47 | 05019189 0011 | SENDER, FUEL 24V 0-5V 28" | 1 |
| 48 | 05019475 0073 | TANK, FUEL LARGE REDESIGN 950+ | 1 |
| 49 | 09870-002 | WEATHERSTRIP, 1/16" X 1" | 5 FT |
| 50 | 38007-009 | HOSE, END 1/2"H X 1/2"MNPT | 2 |
| 51 | 94561-002 | PLUG, PIPE 1/4" SQUARE HD | 1 |

FUEL TANK ASSEMBLY (CONTINUED)

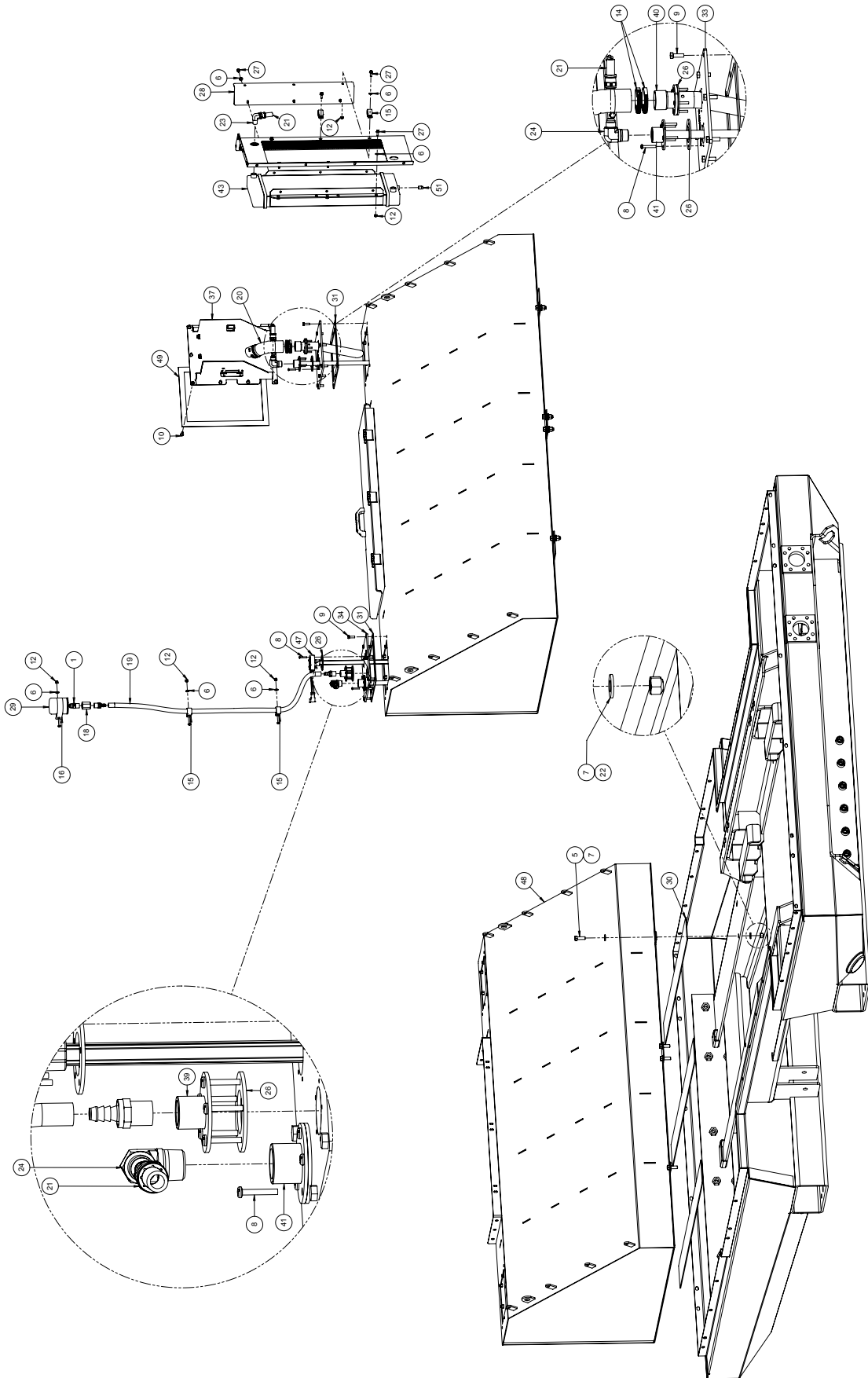


FIGURE 8-29. 00717972 0121 (REV 04)

00717972 0121 FUEL TANK ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---|------|
| 1 | 01900592 0053 | ADAPTER, .500 MNPT X .750-16 UNF ORING | 1 |
| 2 | 00602110 0006 | TERMINAL, FEMALE QUICK DISCONNECT 1/4" TAB, 16-14 AWG NYLON INSULATED | 1 |
| 3 | 00602110 0007 | TERMINAL, MALE QUICK DISCONNECT | 1 |
| 4 | 00602114 0028 | SWITCH, CIRCUIT BREAKER 10AMP | 1 |
| 5 | 00900112 0034 | BOLT, HEX 1/2-13 X 1 1/2 GR8 | 4 |
| 6 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 26 |
| 7 | 00900324 0011 | WASHER, FLAT .500 SAE STD | 8 |
| 8 | 00900336 0238 | SCREW, #10-24 X 1.250 O-RING | 25 |
| 9 | 00900336 0312 | BOLT, .3125-18 X 1.00 WITH ORING | 16 |
| 10 | 00900391 0013 | BOLT, TPHMS 1/4-20 X 1.00 SS W NYL | 12 |
| 11 | 00900490 0064 | NUT, NYLOK 10-24 ZN PLT | 2 |
| 12 | 00900490 0130 | NUT, NYLOK .250-20 STAINLESS STEEL | 12 |
| 13 | 00900493 0001 | NUT, NYLOK M6X1.00 ZINC PLATED | 12 |
| 14 | 00902319 0008 | CLAMP, HOSE 1-5/16 - 2-1/4 | 4 |
| 15 | 00902905 0006 | CLAMP, SUPPORT .94 ID | 4 |
| 16 | 00902905 0015 | CLAMP, SUPPORT 2.75" ID | 1 |
| 17 | 00905850 0108 | SCREW, PAN HD, 10-24 X 1-1/4 | 2 |
| 18 | 00906067 0008 | COUPLING, HEX 1/2NPT 6000# SS | 1 |
| 19 | 00906814 0008 | HOSE, 1/2" ID 300 PSI | 4 FT |
| 20 | 00906814 0013 | HOSE, 1 3/4"ID FUEL FILL NECK | 1 FT |
| 21 | 00906833 0010 | FITTING, HOSE, 5/8 X 7/8-14JIC | 3 |
| 22 | 00906953 0008 | NUT, TOPLOCK 1/2-13 18-8 55T | 4 |
| 23 | 00907254 0108 | ELBOW, 1/2" NPT X 10 JIC | 1 |
| 24 | 00907254 1012 | ELBOW, 3/4" NPT X 10 JIC | 2 |
| 25 | 00909088 0010 | NUT, SPEED 1/4-20 U-TYPE | 2 |
| 26 | 01225508 | GASKET, FUEL SENDER | 5 |
| 27 | 01900060 0001 | BOLT, HEX FLANGE 1/4-20X3/4 SS | 9 |
| 28 | 01900216 0650 | BRACKET, FUEL COOLER MOUNT 950+ | 1 |
| 29 | 01900520 0046 | FILTER, ELEMENT FUEL TANK VENT 10 MICRON | 1 |
| 30 | 01900546 0014 | PAD, FUEL TANK 950+ | 3 |
| 31 | 01900664 0030 | GASKET, SENDER MOUNT PLATE | 2 |
| 32 | 01900752 0105 | HINGE, BLACK ZINC, 950+ | 3 |
| 33 | 01901000 0838 | PANEL, SENDER SENSOR & INSP | 1 |
| 34 | 01901000 0856 | PANEL, FUEL TANK 3 PORTS AND INSPECTION D750-900 | 1 |
| 35 | 01901000 0948 | PANEL, STRIKE PLATE 950+ | 1 |
| 36 | 01901000 0974 | PANEL, DEF TANK COVER | 1 |
| 37 | 01901000 0977 | PANEL, FUEL FILL BACK | 1 |
| 38 | 03272-001 | HANDLE, DOOR PULL 185P2 | 1 |
| 39 | 03903488 0072 | TUBE, BULKHEAD .500 FNPT | 1 |
| 40 | 03903488 0077 | TUBE, FUEL FILL 950+ | 1 |
| 41 | 03903488 0078 | TUBE, FUEL PICKUP D750-900 | 2 |
| 42 | 05017457 0032 | CAP,FUEL - VENTED 3" LOCK GRN | 1 |
| 43 | 05017705 0055 | OIL COOLER, D185P1JD | 1 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|--------------------------------|------|
| 44 | 05018395 0243 | HARNES, FUEL FILL LIGHTS 950+ | 1 |
| 45 | 05018635 0076 | LAMP, AMB, CLEARANCE MARKER | 2 |
| 46 | 05019085 0021 | RELAY 5PDT 5-PIN | 1 |
| 47 | 05019189 0011 | SENDER, FUEL 24V 0-5V 28" | 1 |
| 48 | 05019475 0073 | TANK, FUEL LARGE REDESIGN 950+ | 1 |
| 49 | 09870-002 | WEATHERSTRIP, 1/16" X 1" | 5 FT |
| 50 | 38007-009 | HOSE, END 1/2"H X 1/2"MNPT | 2 |
| 51 | 94561-002 | PLUG, PIPE 1/4" SQUARE HD | 1 |

8.20 INSTRUMENT PANEL ASSEMBLY

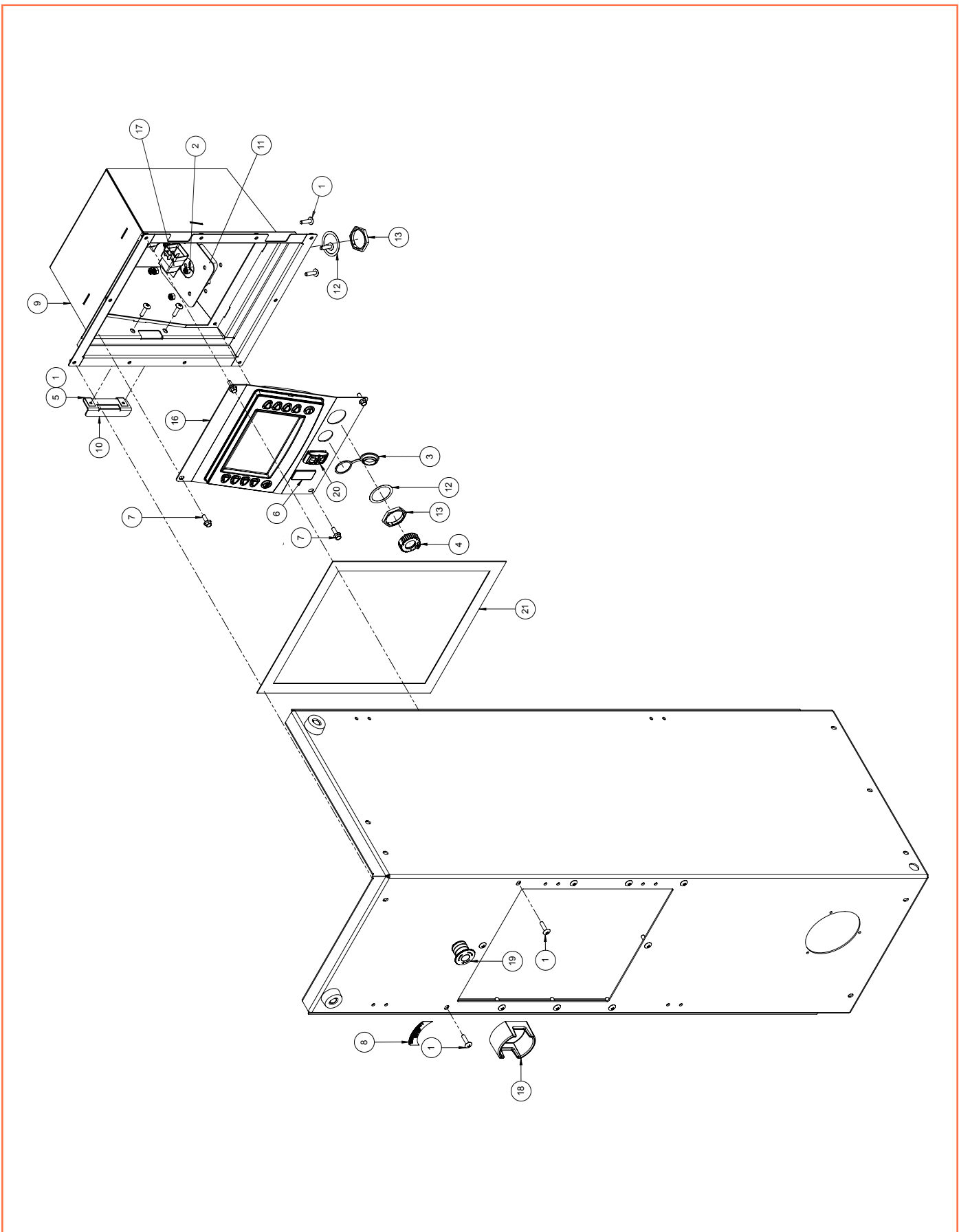


FIGURE 8-30. 00717680 0152 (REV 04)

00717680 0152 INSTRUMENT PANEL ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|--|------|
| 1 | 00900389 0028 | BOLT, TPMS 1/4"-20 X 1.00 S5 | 16 |
| 2 | 00900490 0071 | NUT, NYLOC .250-20 ZINC PLATED | 6 |
| 3 | 00908354 0002 | CAP, USB PORT, PANEL MOUNT | 1 |
| 4 | 00908354 0003 | CAP, DEUTSCH HD10 | 1 |
| 5 | 00909088 0010 | NUT, SPEED 1/4"-20 U-TYPE | 2 |
| 6 | 00910195 0020 | PLUG, PANEL HOLE SWITCH | 1 |
| 7 | 01900060 0001 | BOLT, HEX FLANGE 1/4"-20X3/4 S5 | 4 |
| 8 | 01900464 0404 | DECAL, EMERGENCY STOP | 1 |
| 9 | 01901000 0947 | PANEL, INST PANEL BOX 950+ | 1 |
| 10 | 01901000 0948 | PANEL, STRIKE PLATE 950+ | 1 |
| 11 | 01901000 0989 | PANEL, INST PNL CONNECTOR ADAPT | 1 |
| 12 | 05017669 0022 | WASHER, 9 PIN, J1939 PNL | 2 |
| 13 | 05017669 0023 | NUT, 9 PIN, J1939 PNL | 2 |
| NS | 05018395 0202 | HARNES, EMERGENCY STOP (NOT SHOWN) | 1 |
| NS | 05018395 0238 | HARNES, INSTRUMENT PNL PV780 (NOT SHOWN) | 1 |
| 16 | 05018845 0150 | INST PANEL ASSY, LARGE REDESN | 1 |
| 17 | 05019085 0021 | RELAY SPDT 5-PIN | 2 |
| 18 | 05019430 0066 | SWITCH, SHROUD E-STOP | 1 |
| 19 | 05019430 0067 | SWITCH, EMERGENCY STOP PUSH | 1 |
| 20 | 05019430 0075 | SWITCH, 3 WAY R-G MOMENTARY 24V | 1 |
| 21 | 09870-002 | TAPE, NEOPRENE 1/16" TK X 1" | 5 FT |

8.21 ENCLOSURE ASSEMBLY, DUAL AXLE

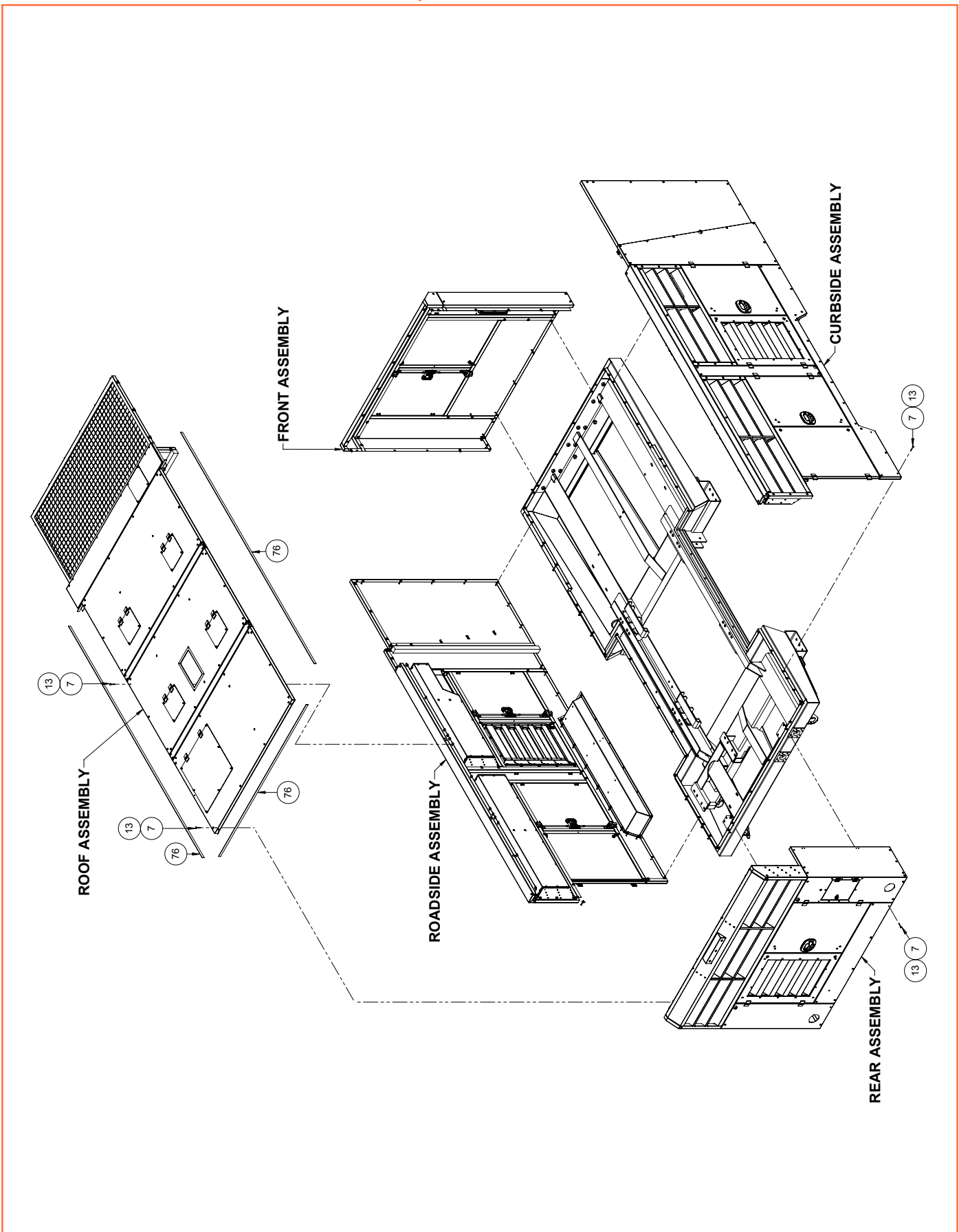


FIGURE 8-31. 00717598 0124 (REV 05)

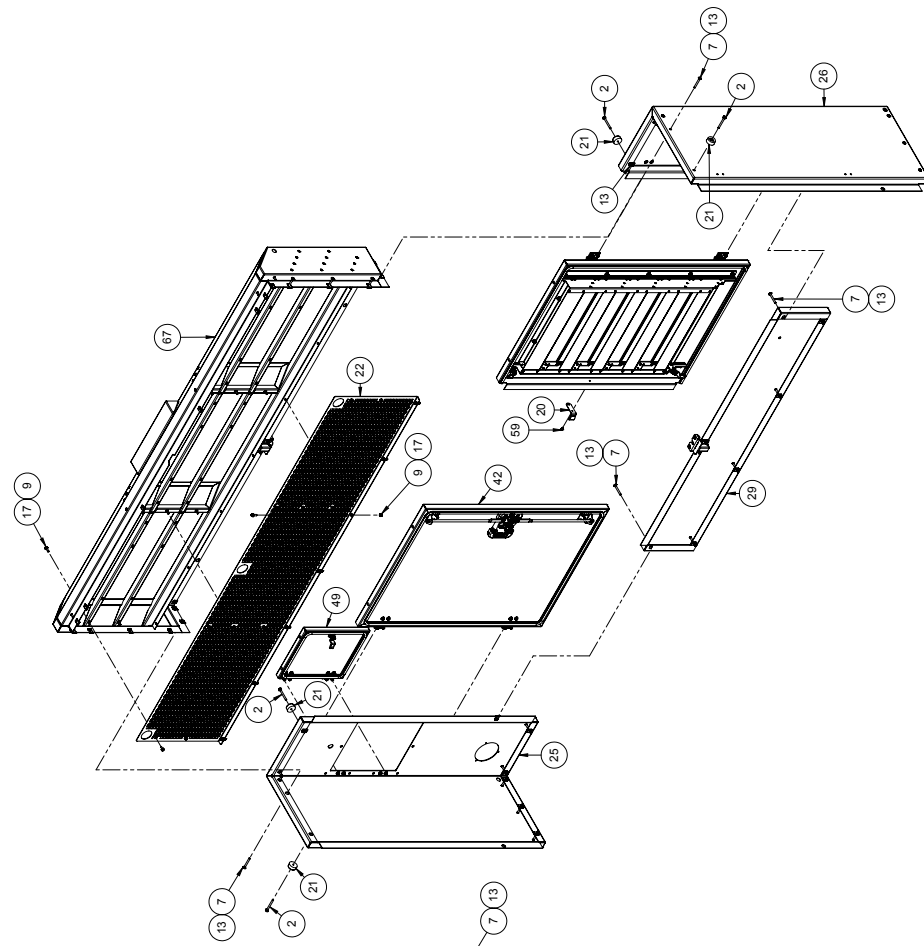
00717598 0124 ENCLOSURE ASSEMBLY, DUAL AXLE

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|-------------------|---------------------------------------|-----|
| 1 | 00900112 0011 | BOLT,HEX 1/4-20 X 1 GR8 | 16 |
| 2 | 00900112 0071 | BOLT,HEX .250-20 X 2.500 GR8 | 12 |
| 3 | 00900303 0001 | WASHER, LOCK .250 STAINLESS | 36 |
| 4 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 212 |
| 5 | 00900391 0002 | BOLT,TPHMS .250-20 X .750 SS W NYL | 36 |
| 2 | 00900391 0013 | BOLT, TPHMS 1/4-20 X 1.00 SS W NYL | 96 |
| 7 | 00900391 0068 | BOLT, TPHMS .25-20 X 2.25 SS W NYL | 206 |
| 8 | 00900391 0145 | BOLT, TPHMS .25-20 X 4.00 SS W NYL | 4 |
| 9 | 00900490 0130 | NUT, NYLOK .250-20 STAINLESS STEEL | 125 |
| 10 | 00900493 0001 | NUT, NYLOK M6X1.00 ZINC PLATED | 152 |
| 11 | 00903775 0196 | BEARING, BRONZE FLANGE .376 ID | 12 |
| 12 | 00906771 0114 | SCREW, THUMB 1/4-20 X 1" SS | 27 |
| 13 | 00909088 0010 | NUT,SPEED 1/4-20 U-TYPE | 260 |
| 14 | 00910195 0009 | PLUG, HOLE, LOCKING,7/16" HOLE | 6 |
| 15 | 00910195 0013 | PLUG, HOLE, LOCKING. .375 | 28 |
| 16 | 01900007 0278 | ACOUSTIC,UPPER END,ROOF,HOR. | 3 |
| 17 | 01900060 0001 | BOLT,HEX FLANGE 1/4-20X3/4 SS | 37 |
| 18 | 01900216 0607 | BRACKET, ROD LATCH 950+ | 12 |
| 19 | 01900216 0608 | BRACKET, ROD GUIDE 950+ | 12 |
| 20 | 01900216 0679 | BRACKET, ENCLOSURE SHIPPING | 6 |
| 21 | 01900224 0026 | BUMPER,RUBBER 1-1/2" DIA | 12 |
| 22 | 01900702 0170 | GUARD, LOUVER REAR 950+ | 1 |
| 23 | 01900752 0089 | HINGE, DOOR | 4 |
| 24 | 01900752 0105 | HINGE, BLACK ZINC, 950+ | 34 |
| 25 | 01901000 0918 | PANEL,REAR CORNER CURB 950+ | 1 |
| 26 | 01901000 0919 | PANEL,REAR CORNER ROAD 950+ | 1 |
| 27 | 01901000 0920 | PANEL, ANGLE PANEL ROAD 950+ | 1 |
| 28 | 01901000 0921 | PANEL,ANGLE PANEL CURB 950+ | 1 |
| 29 | 01901000 0922 | PANEL,REAR BOTTOM 950+ | 1 |
| 30 | 01901000 0923 | PANEL,FENDER CURB 950+ | 1 |
| 31 | 01901000 0924 | PANEL,FENDER ROAD 950+ | 1 |
| 32 | 01901000 0925 | PANEL,DOOR CENTER 950+ | 2 |
| 33 | 01901000 0931GRAY | PANEL,FRONT PANEL CURB 950+ | 1 |
| 34 | 01901000 0932GRAY | PANEL, FRONT PANEL ROAD 950+ | 1 |
| 35 | 01901000 0933GRAY | PANEL,FRONT CORNER ROAD 950+ | 1 |
| 36 | 01901000 0934GRAY | PANEL,FRONT CORNER CURB 950+ | 1 |
| 37 | 01901000 0935GRAY | PANEL,FRONT BOTTOM 950+ | 1 |
| 38 | 01901000 0936GRAY | PANEL,FRONT NOSE 950+ | 1 |
| 39 | 01901000 0937 | PANEL,ROOF FRONT 950+ | 1 |
| 40 | 01901000 0938 | PANEL,ROOF CENTER 950+ | 1 |
| 41 | 01901000 0939 | PANEL,ROOF REAR 950+ | 1 |
| 42 | 01901000 0940 | PANEL,MASTER DOOR 950+ | 5 |
| 43 | 01901000 0940GRAY | PANEL,MASTER DOOR 950+ GRAY | 1 |
| 44 | 01901000 0941 | PANEL,SLAVE DOOR 950+ | 2 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|-------------------|--------------------------------|--------|
| 45 | 01901000 0941GRAY | PANEL,SLAVE DOOR 950+ GRAY | 1 |
| 46 | 01901000 0942GRAY | PANEL,WHEEL WELL 950+ | 2 |
| 47 | 01901000 0943GRAY | PANEL,COOLER BAFFLE 950+ | 1 |
| 48 | 01901000 0944 | PANEL,ROOF CENTER 950+ | 1 |
| 49 | 01901000 0945 | PANEL,INST PANEL DOOR 950+ | 1 |
| 50 | 01901000 0971 | PANEL, LIFT BAIL ACCESS | 1 |
| 51 | 01901000 0975GRAY | PANEL, AIR OUTLET COVER | 1 |
| 52 | 01901000 0976GRAY | PANEL, FUEL DOOR 950+ | 1 |
| 53 | 01901000 0985 | PANEL, ROOF SUPPORT RAIL 950+ | 2 |
| 54 | 01901000 0986 | PANEL, ROOF CROSS SUPPORT 950+ | 2 |
| 55 | 01901000 0997 | PANEL, HINGE FOOT | 10 |
| 56 | 01901000 0998 | PANEL, RECEIVER ACCESS 950+ | 1 |
| 57 | 01901000 0999 | PANEL, LIFT BAIL ACCESS | 4 |
| 58 | 01901000 1161 | PANEL, DOOR LOUVER 950+ | 3 |
| 59 | 01901256 0003 | RIVET,BLIND,3/16"X.126-.250 SS | 6 |
| 60 | 01901288 0028 | SCREW, M6-1MM X 25MM PHILLIPS | 16 |
| 61 | 01901295 0022 | SEAL, EDGE-GRIP BULB ON SIDE | 140 FT |
| 62 | 03270-012 | LATCH, CAM SLOTTED HEAD | 12 |
| 63 | 03903297 0024 | LOUVER, CURBSIDE 2 950+ | 1 |
| 64 | 03903297 0025 | LOUVER, CURBSIDE 2 950+ | 1 |
| 65 | 03903297 0026 | LOUVER, ROADSIDE 1 950+ | 1 |
| 66 | 03903297 0027 | LOUVER, CURBSIDE 2 950+ | 1 |
| 67 | 03903297 0028 | LOUVER, REAR W/LIGHTS 950+ | 1 |
| 68 | 03903297 0035 | LOUVER, DOOR ASSY 950+ | 3 |
| 69 | 05018650 0033 | LATCH, WING KNOB 1/4 TURN | 2 |
| 70 | 05018650 0040 | LATCH, HANDLE CHROME 950+ | 6 |
| 71 | 05018650 0041 | LATCH, .375 ROD 950+ | 12 |
| 72 | 05018650 0043 | ROD, .375 ROD | 12 |
| 73 | 05018650 0044 | WASHER, 950+ DOOR LATCH ASSY | 12 |
| 74 | 05018650 0045 | FASTNER, 950+ DOOR LATCH ASSY | 12 |
| 75 | 05018650 0046 | LATCH, CAM QUARTER TURN | 2 |
| 76 | 06001002 | TAPE,GASKET,1/8" THK X 1" WIDE | 140 FT |

ENCLOSURE ASSEMBLY, DUAL AXLE (CONTINUED)

REAR ASSEMBLY



FRONT ASSEMBLY

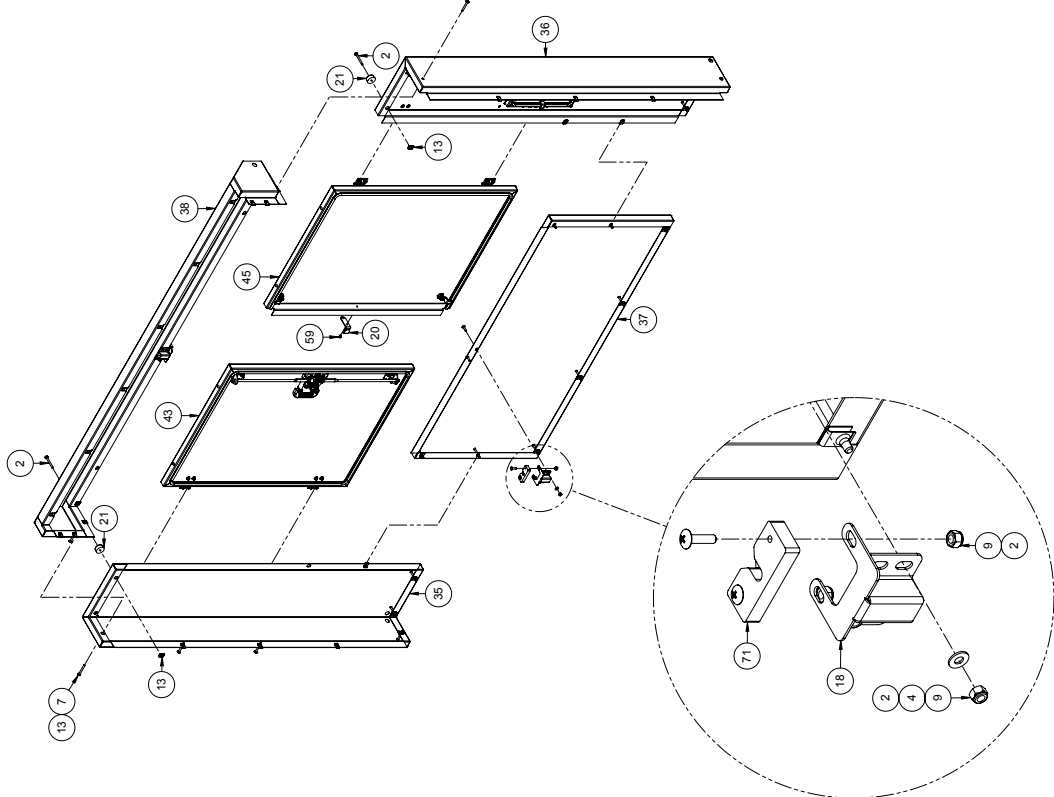


FIGURE 8-32. 00717598 0124 (REV 05)

00717598 0124 ENCLOSURE ASSEMBLY, DUAL AXLE

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|-------------------|---------------------------------------|-----|
| 1 | 00900112 0011 | BOLT,HEX 1/4-20 X 1 GR8 | 16 |
| 2 | 00900112 0071 | BOLT,HEX .250-20 X 2.500 GR8 | 12 |
| 3 | 00900303 0001 | WASHER, LOCK .250 STAINLESS | 36 |
| 4 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 212 |
| 5 | 00900391 0002 | BOLT,TPHMS .250-20 X .750 SS W NYL | 36 |
| 2 | 00900391 0013 | BOLT, TPHMS 1/4-20 X 1.00 SS W NYL | 96 |
| 7 | 00900391 0068 | BOLT, TPHMS .25-20 X 2.25 SS W NYL | 206 |
| 8 | 00900391 0145 | BOLT, TPHMS .25-20 X 4.00 SS W NYL | 4 |
| 9 | 00900490 0130 | NUT, NYLON .250-20 STAINLESS STEEL | 125 |
| 10 | 00900493 0001 | NUT, NYLON M6X1.00 ZINC PLATED | 152 |
| 11 | 00903775 0196 | BEARING, BRONZE FLANGE .376 ID | 12 |
| 12 | 00906771 0114 | SCREW, THUMB 1/4-20 X 1" SS | 27 |
| 13 | 00909088 0010 | NUT,SPEED 1/4-20 U-TYPE | 260 |
| 14 | 00910195 0009 | PLUG, HOLE, LOCKING,7/16" HOLE | 6 |
| 15 | 00910195 0013 | PLUG, HOLE, LOCKING. .375 | 28 |
| 16 | 01900007 0278 | ACOUSTIC,UPPER END,ROOF,HOR. | 3 |
| 17 | 01900060 0001 | BOLT,HEX FLANGE 1/4-20X3/4 SS | 37 |
| 18 | 01900216 0607 | BRACKET, ROD LATCH 950+ | 12 |
| 19 | 01900216 0608 | BRACKET, ROD GUIDE 950+ | 12 |
| 20 | 01900216 0679 | BRACKET, ENCLOSURE SHIPPING | 6 |
| 21 | 01900224 0026 | BUMPER,RUBBER 1-1/2" DIA | 12 |
| 22 | 01900702 0170 | GUARD, LOUVER REAR 950+ | 1 |
| 23 | 01900752 0089 | HINGE, DOOR | 4 |
| 24 | 01900752 0105 | HINGE, BLACK ZINC, 950+ | 34 |
| 25 | 01901000 0918 | PANEL,REAR CORNER CURB 950+ | 1 |
| 26 | 01901000 0919 | PANEL,REAR CORNER ROAD 950+ | 1 |
| 27 | 01901000 0920 | PANEL, ANGLE PANEL ROAD 950+ | 1 |
| 28 | 01901000 0921 | PANEL,ANGLE PANEL CURB 950+ | 1 |
| 29 | 01901000 0922 | PANEL,REAR BOTTOM 950+ | 1 |
| 30 | 01901000 0923 | PANEL,FENDER CURB 950+ | 1 |
| 31 | 01901000 0924 | PANEL,FENDER ROAD 950+ | 1 |
| 32 | 01901000 0925 | PANEL,DOOR CENTER 950+ | 2 |
| 33 | 01901000 0931GRAY | PANEL,FRONT PANEL CURB 950+ | 1 |
| 34 | 01901000 0932GRAY | PANEL, FRONT PANEL ROAD 950+ | 1 |
| 35 | 01901000 0933GRAY | PANEL,FRONT CORNER ROAD 950+ | 1 |
| 36 | 01901000 0934GRAY | PANEL,FRONT CORNER CURB 950+ | 1 |
| 37 | 01901000 0935GRAY | PANEL,FRONT BOTTOM 950+ | 1 |
| 38 | 01901000 0936GRAY | PANEL,FRONT NOSE 950+ | 1 |
| 39 | 01901000 0937 | PANEL,ROOF FRONT 950+ | 1 |
| 40 | 01901000 0938 | PANEL,ROOF CENTER 950+ | 1 |
| 41 | 01901000 0939 | PANEL,ROOF REAR 950+ | 1 |
| 42 | 01901000 0940 | PANEL,MASTER DOOR 950+ | 5 |
| 43 | 01901000 0940GRAY | PANEL,MASTER DOOR 950+ GRAY | 1 |
| 44 | 01901000 0941 | PANEL,SLAVE DOOR 950+ | 2 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|-------------------|--------------------------------|--------|
| 45 | 01901000 0941GRAY | PANEL,SLAVE DOOR 950+ GRAY | 1 |
| 46 | 01901000 0942GRAY | PANEL,WHEEL WELL 950+ | 2 |
| 47 | 01901000 0943GRAY | PANEL,COOLER BAFFLE 950+ | 1 |
| 48 | 01901000 0944 | PANEL,ROOF CENTER 950+ | 1 |
| 49 | 01901000 0945 | PANEL,INST PANEL DOOR 950+ | 1 |
| 50 | 01901000 0971 | PANEL, LIFT BAIL ACCESS | 1 |
| 51 | 01901000 0975GRAY | PANEL, AIR OUTLET COVER | 1 |
| 52 | 01901000 0976GRAY | PANEL, FUEL DOOR 950+ | 1 |
| 53 | 01901000 0985 | PANEL, ROOF SUPPORT RAIL 950+ | 2 |
| 54 | 01901000 0986 | PANEL, ROOF CROSS SUPPORT 950+ | 2 |
| 55 | 01901000 0997 | PANEL, HINGE FOOT | 10 |
| 56 | 01901000 0998 | PANEL, RECEIVER ACCESS 950+ | 1 |
| 57 | 01901000 0999 | PANEL, LIFT BAIL ACCESS | 4 |
| 58 | 01901000 1161 | PANEL, DOOR LOUVER 950+ | 3 |
| 59 | 01901256 0003 | RIVET,BLIND,3/16"X.126-.250 SS | 6 |
| 60 | 01901288 0028 | SCREW, M6-1MM X 25MM PHILLIPS | 16 |
| 61 | 01901295 0022 | SEAL, EDGE-GRIP BULB ON SIDE | 140 FT |
| 62 | 03270-012 | LATCH, CAM SLOTTED HEAD | 12 |
| 63 | 03903297 0024 | LOUVER, CURBSIDE 2 950+ | 1 |
| 64 | 03903297 0025 | LOUVER, CURBSIDE 2 950+ | 1 |
| 65 | 03903297 0026 | LOUVER, ROADSIDE 1 950+ | 1 |
| 66 | 03903297 0027 | LOUVER, CURBSIDE 2 950+ | 1 |
| 67 | 03903297 0028 | LOUVER, REAR W/LIGHTS 950+ | 1 |
| 68 | 03903297 0035 | LOUVER, DOOR ASSY 950+ | 3 |
| 69 | 05018650 0033 | LATCH, WING KNOB 1/4 TURN | 2 |
| 70 | 05018650 0040 | LATCH, HANDLE CHROME 950+ | 6 |
| 71 | 05018650 0041 | LATCH, .375 ROD 950+ | 12 |
| 72 | 05018650 0043 | ROD, .375 ROD | 12 |
| 73 | 05018650 0044 | WASHER, 950+ DOOR LATCH ASSY | 12 |
| 74 | 05018650 0045 | FASTNER, 950+ DOOR LATCH ASSY | 12 |
| 75 | 05018650 0046 | LATCH, CAM QUARTER TURN | 2 |
| 76 | 06001002 | TAPE,GASKET,1/8" THK X 1" WIDE | 140 FT |

ENCLOSURE ASSEMBLY, DUAL AXLE (CONTINUED)

ROADSIDE ASSEMBLY

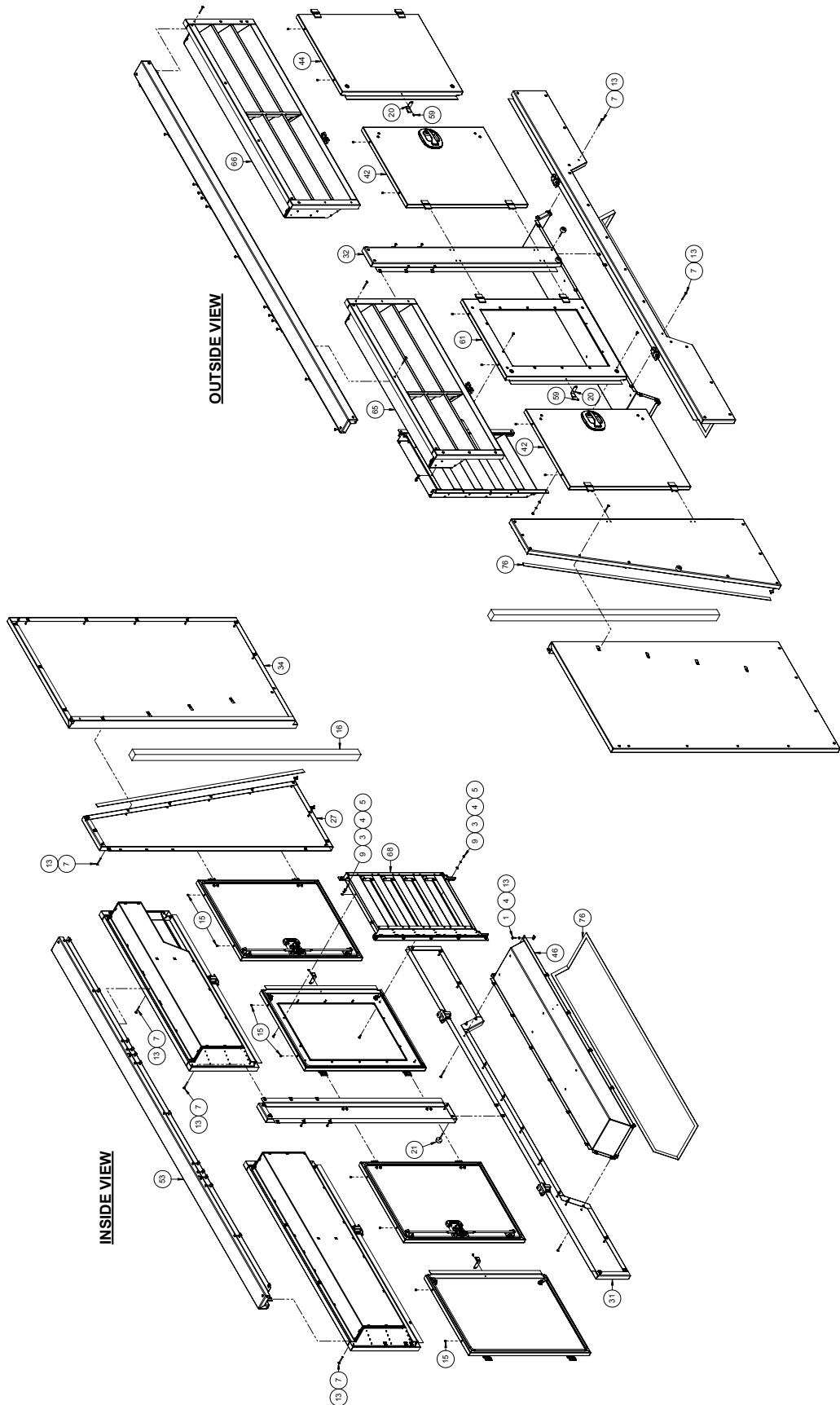


FIGURE 8-33. 00717598 0124 (REV 05)

00717598 0124 ENCLOSURE ASSEMBLY, DUAL AXLE

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|-------------------|---------------------------------------|-----|
| 1 | 00900112 0011 | BOLT,HEX 1/4-20 X 1 GR8 | 16 |
| 2 | 00900112 0071 | BOLT,HEX .250-20 X 2.500 GR8 | 12 |
| 3 | 00900303 0001 | WASHER, LOCK .250 STAINLESS | 36 |
| 4 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 212 |
| 5 | 00900391 0002 | BOLT,TPHMS .250-20 X .750 SS W NYL | 36 |
| 2 | 00900391 0013 | BOLT, TPHMS 1/4-20 X 1.00 SS W NYL | 96 |
| 7 | 00900391 0068 | BOLT, TPHMS .25-20 X 2.25 SS W NYL | 206 |
| 8 | 00900391 0145 | BOLT, TPHMS .25-20 X 4.00 SS W NYL | 4 |
| 9 | 00900490 0130 | NUT, NYLOK .250-20 STAINLESS STEEL | 125 |
| 10 | 00900493 0001 | NUT, NYLOK M6X1.00 ZINC PLATED | 152 |
| 11 | 00903775 0196 | BEARING, BRONZE FLANGE .376 ID | 12 |
| 12 | 00906771 0114 | SCREW, THUMB 1/4-20 X 1" SS | 27 |
| 13 | 00909088 0010 | NUT,SPEED 1/4-20 U-TYPE | 260 |
| 14 | 00910195 0009 | PLUG, HOLE, LOCKING,7/16" HOLE | 6 |
| 15 | 00910195 0013 | PLUG, HOLE, LOCKING. .375 | 28 |
| 16 | 01900007 0278 | ACOUSTIC,UPPER END,ROOF,HOR. | 3 |
| 17 | 01900060 0001 | BOLT,HEX FLANGE 1/4-20X3/4 SS | 37 |
| 18 | 01900216 0607 | BRACKET, ROD LATCH 950+ | 12 |
| 19 | 01900216 0608 | BRACKET, ROD GUIDE 950+ | 12 |
| 20 | 01900216 0679 | BRACKET, ENCLOSURE SHIPPING | 6 |
| 21 | 01900224 0026 | BUMPER,RUBBER 1-1/2" DIA | 12 |
| 22 | 01900702 0170 | GUARD, LOUVER REAR 950+ | 1 |
| 23 | 01900752 0089 | HINGE, DOOR | 4 |
| 24 | 01900752 0105 | HINGE, BLACK ZINC, 950+ | 34 |
| 25 | 01901000 0918 | PANEL,REAR CORNER CURB 950+ | 1 |
| 26 | 01901000 0919 | PANEL,REAR CORNER ROAD 950+ | 1 |
| 27 | 01901000 0920 | PANEL, ANGLE PANEL ROAD 950+ | 1 |
| 28 | 01901000 0921 | PANEL,ANGLE PANEL CURB 950+ | 1 |
| 29 | 01901000 0922 | PANEL,REAR BOTTOM 950+ | 1 |
| 30 | 01901000 0923 | PANEL,FENDER CURB 950+ | 1 |
| 31 | 01901000 0924 | PANEL,FENDER ROAD 950+ | 1 |
| 32 | 01901000 0925 | PANEL,DOOR CENTER 950+ | 2 |
| 33 | 01901000 0931GRAY | PANEL,FRONT PANEL CURB 950+ | 1 |
| 34 | 01901000 0932GRAY | PANEL, FRONT PANEL ROAD 950+ | 1 |
| 35 | 01901000 0933GRAY | PANEL,FRONT CORNER ROAD 950+ | 1 |
| 36 | 01901000 0934GRAY | PANEL,FRONT CORNER CURB 950+ | 1 |
| 37 | 01901000 0935GRAY | PANEL,FRONT BOTTOM 950+ | 1 |
| 38 | 01901000 0936GRAY | PANEL,FRONT NOSE 950+ | 1 |
| 39 | 01901000 0937 | PANEL,ROOF FRONT 950+ | 1 |
| 40 | 01901000 0938 | PANEL,ROOF CENTER 950+ | 1 |
| 41 | 01901000 0939 | PANEL,ROOF REAR 950+ | 1 |
| 42 | 01901000 0940 | PANEL,MASTER DOOR 950+ | 5 |
| 43 | 01901000 0940GRAY | PANEL,MASTER DOOR 950+ GRAY | 1 |
| 44 | 01901000 0941 | PANEL,SLAVE DOOR 950+ | 2 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|-------------------|--------------------------------|--------|
| 45 | 01901000 0941GRAY | PANEL,SLAVE DOOR 950+ GRAY | 1 |
| 46 | 01901000 0942GRAY | PANEL,WHEEL WELL 950+ | 2 |
| 47 | 01901000 0943GRAY | PANEL,COOLER BAFFLE 950+ | 1 |
| 48 | 01901000 0944 | PANEL,ROOF CENTER 950+ | 1 |
| 49 | 01901000 0945 | PANEL,INST PANEL DOOR 950+ | 1 |
| 50 | 01901000 0971 | PANEL, LIFT BAIL ACCESS | 1 |
| 51 | 01901000 0975GRAY | PANEL, AIR OUTLET COVER | 1 |
| 52 | 01901000 0976GRAY | PANEL, FUEL DOOR 950+ | 1 |
| 53 | 01901000 0985 | PANEL, ROOF SUPPORT RAIL 950+ | 2 |
| 54 | 01901000 0986 | PANEL, ROOF CROSS SUPPORT 950+ | 2 |
| 55 | 01901000 0997 | PANEL, HINGE FOOT | 10 |
| 56 | 01901000 0998 | PANEL, RECEIVER ACCESS 950+ | 1 |
| 57 | 01901000 0999 | PANEL, LIFT BAIL ACCESS | 4 |
| 58 | 01901000 1161 | PANEL, DOOR LOUVER 950+ | 3 |
| 59 | 01901256 0003 | RIVET,BLIND,3/16"X.126-.250 SS | 6 |
| 60 | 01901288 0028 | SCREW, M6-1MM X 25MM PHILLIPS | 16 |
| 61 | 01901295 0022 | SEAL, EDGE-GRIP BULB ON SIDE | 140 FT |
| 62 | 03270-012 | LATCH, CAM SLOTTED HEAD | 12 |
| 63 | 03903297 0024 | LOUVER, CURBSIDE 2 950+ | 1 |
| 64 | 03903297 0025 | LOUVER, CURBSIDE 2 950+ | 1 |
| 65 | 03903297 0026 | LOUVER, ROADSIDE 1 950+ | 1 |
| 66 | 03903297 0027 | LOUVER, CURBSIDE 2 950+ | 1 |
| 67 | 03903297 0028 | LOUVER, REAR W/LIGHTS 950+ | 1 |
| 68 | 03903297 0035 | LOUVER, DOOR ASSY 950+ | 3 |
| 69 | 05018650 0033 | LATCH, WING KNOB 1/4 TURN | 2 |
| 70 | 05018650 0040 | LATCH, HANDLE CHROME 950+ | 6 |
| 71 | 05018650 0041 | LATCH, .375 ROD 950+ | 12 |
| 72 | 05018650 0043 | ROD, .375 ROD | 12 |
| 73 | 05018650 0044 | WASHER, 950+ DOOR LATCH ASSY | 12 |
| 74 | 05018650 0045 | FASTNER, 950+ DOOR LATCH ASSY | 12 |
| 75 | 05018650 0046 | LATCH, CAM QUARTER TURN | 2 |
| 76 | 06001002 | TAPE,GASKET,1/8" THK X 1" WIDE | 140 FT |

ENCLOSURE ASSEMBLY, DUAL AXLE (CONTINUED)

CURBSIDE ASSEMBLY

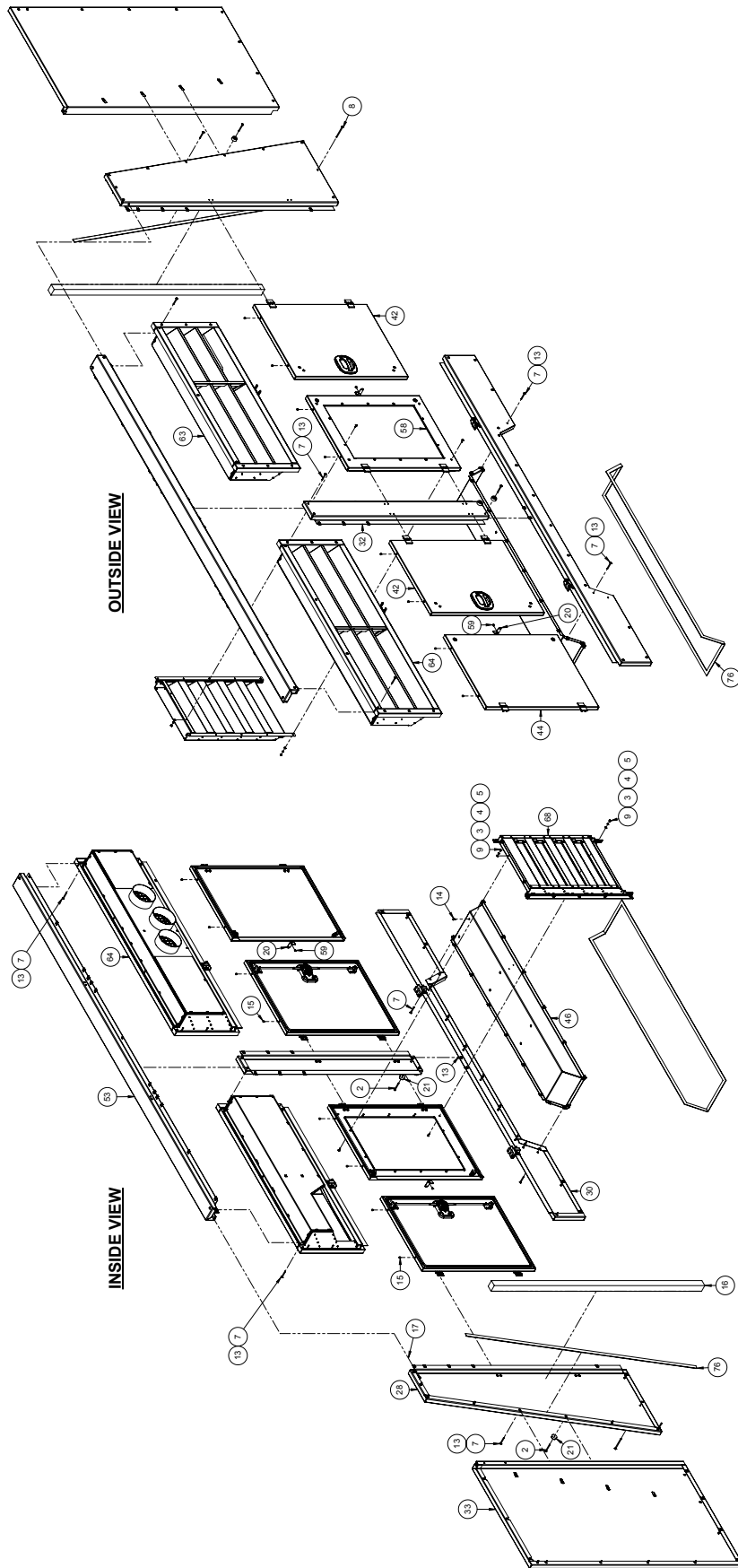


FIGURE 8-34. 00717598 0124 (REV 05)

00717598 0124 ENCLOSURE ASSEMBLY, DUAL AXLE

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|-------------------|---------------------------------------|-----|
| 1 | 00900112 0011 | BOLT,HEX 1/4-20 X 1 GR8 | 16 |
| 2 | 00900112 0071 | BOLT,HEX .250-20 X 2.500 GR8 | 12 |
| 3 | 00900303 0001 | WASHER, LOCK .250 STAINLESS | 36 |
| 4 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 212 |
| 5 | 00900391 0002 | BOLT,TPHMS .250-20 X .750 SS W NYL | 36 |
| 2 | 00900391 0013 | BOLT, TPHMS 1/4-20 X 1.00 SS W NYL | 96 |
| 7 | 00900391 0068 | BOLT, TPHMS .25-20 X 2.25 SS W NYL | 206 |
| 8 | 00900391 0145 | BOLT, TPHMS .25-20 X 4.00 SS W NYL | 4 |
| 9 | 00900490 0130 | NUT, NYLOK .250-20 STAINLESS STEEL | 125 |
| 10 | 00900493 0001 | NUT, NYLOK M6X1.00 ZINC PLATED | 152 |
| 11 | 00903775 0196 | BEARING, BRONZE FLANGE .376 ID | 12 |
| 12 | 00906771 0114 | SCREW, THUMB 1/4-20 X 1" SS | 27 |
| 13 | 00909088 0010 | NUT,SPEED 1/4-20 U-TYPE | 260 |
| 14 | 00910195 0009 | PLUG, HOLE, LOCKING,7/16" HOLE | 6 |
| 15 | 00910195 0013 | PLUG, HOLE, LOCKING. .375 | 28 |
| 16 | 01900007 0278 | ACOUSTIC,UPPER END,ROOF,HOR. | 3 |
| 17 | 01900060 0001 | BOLT,HEX FLANGE 1/4-20X3/4 SS | 37 |
| 18 | 01900216 0607 | BRACKET, ROD LATCH 950+ | 12 |
| 19 | 01900216 0608 | BRACKET, ROD GUIDE 950+ | 12 |
| 20 | 01900216 0679 | BRACKET, ENCLOSURE SHIPPING | 6 |
| 21 | 01900224 0026 | BUMPER,RUBBER 1-1/2" DIA | 12 |
| 22 | 01900702 0170 | GUARD, LOUVER REAR 950+ | 1 |
| 23 | 01900752 0089 | HINGE, DOOR | 4 |
| 24 | 01900752 0105 | HINGE, BLACK ZINC, 950+ | 34 |
| 25 | 01901000 0918 | PANEL,REAR CORNER CURB 950+ | 1 |
| 26 | 01901000 0919 | PANEL,REAR CORNER ROAD 950+ | 1 |
| 27 | 01901000 0920 | PANEL, ANGLE PANEL ROAD 950+ | 1 |
| 28 | 01901000 0921 | PANEL,ANGLE PANEL CURB 950+ | 1 |
| 29 | 01901000 0922 | PANEL,REAR BOTTOM 950+ | 1 |
| 30 | 01901000 0923 | PANEL,FENDER CURB 950+ | 1 |
| 31 | 01901000 0924 | PANEL,FENDER ROAD 950+ | 1 |
| 32 | 01901000 0925 | PANEL,DOOR CENTER 950+ | 2 |
| 33 | 01901000 0931GRAY | PANEL,FRONT PANEL CURB 950+ | 1 |
| 34 | 01901000 0932GRAY | PANEL, FRONT PANEL ROAD 950+ | 1 |
| 35 | 01901000 0933GRAY | PANEL,FRONT CORNER ROAD 950+ | 1 |
| 36 | 01901000 0934GRAY | PANEL,FRONT CORNER CURB 950+ | 1 |
| 37 | 01901000 0935GRAY | PANEL,FRONT BOTTOM 950+ | 1 |
| 38 | 01901000 0936GRAY | PANEL,FRONT NOSE 950+ | 1 |
| 39 | 01901000 0937 | PANEL,ROOF FRONT 950+ | 1 |
| 40 | 01901000 0938 | PANEL,ROOF CENTER 950+ | 1 |
| 41 | 01901000 0939 | PANEL,ROOF REAR 950+ | 1 |
| 42 | 01901000 0940 | PANEL,MASTER DOOR 950+ | 5 |
| 43 | 01901000 0940GRAY | PANEL,MASTER DOOR 950+ GRAY | 1 |
| 44 | 01901000 0941 | PANEL,SLAVE DOOR 950+ | 2 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|-------------------|--------------------------------|--------|
| 45 | 01901000 0941GRAY | PANEL,SLAVE DOOR 950+ GRAY | 1 |
| 46 | 01901000 0942GRAY | PANEL,WHEEL WELL 950+ | 2 |
| 47 | 01901000 0943GRAY | PANEL,COOLER BAFFLE 950+ | 1 |
| 48 | 01901000 0944 | PANEL,ROOF CENTER 950+ | 1 |
| 49 | 01901000 0945 | PANEL,INST PANEL DOOR 950+ | 1 |
| 50 | 01901000 0971 | PANEL, LIFT BAIL ACCESS | 1 |
| 51 | 01901000 0975GRAY | PANEL, AIR OUTLET COVER | 1 |
| 52 | 01901000 0976GRAY | PANEL, FUEL DOOR 950+ | 1 |
| 53 | 01901000 0985 | PANEL, ROOF SUPPORT RAIL 950+ | 2 |
| 54 | 01901000 0986 | PANEL, ROOF CROSS SUPPORT 950+ | 2 |
| 55 | 01901000 0997 | PANEL, HINGE FOOT | 10 |
| 56 | 01901000 0998 | PANEL, RECEIVER ACCESS 950+ | 1 |
| 57 | 01901000 0999 | PANEL, LIFT BAIL ACCESS | 4 |
| 58 | 01901000 1161 | PANEL, DOOR LOUVER 950+ | 3 |
| 59 | 01901256 0003 | RIVET,BLIND,3/16"X.126-.250 SS | 6 |
| 60 | 01901288 0028 | SCREW, M6-1MM X 25MM PHILLIPS | 16 |
| 61 | 01901295 0022 | SEAL, EDGE-GRIP BULB ON SIDE | 140 FT |
| 62 | 03270-012 | LATCH, CAM SLOTTED HEAD | 12 |
| 63 | 03903297 0024 | LOUVER, CURBSIDE 2 950+ | 1 |
| 64 | 03903297 0025 | LOUVER, CURBSIDE 2 950+ | 1 |
| 65 | 03903297 0026 | LOUVER, ROADSIDE 1 950+ | 1 |
| 66 | 03903297 0027 | LOUVER, CURBSIDE 2 950+ | 1 |
| 67 | 03903297 0028 | LOUVER, REAR W/LIGHTS 950+ | 1 |
| 68 | 03903297 0035 | LOUVER, DOOR ASSY 950+ | 3 |
| 69 | 05018650 0033 | LATCH, WING KNOB 1/4 TURN | 2 |
| 70 | 05018650 0040 | LATCH, HANDLE CHROME 950+ | 6 |
| 71 | 05018650 0041 | LATCH, .375 ROD 950+ | 12 |
| 72 | 05018650 0043 | ROD, .375 ROD | 12 |
| 73 | 05018650 0044 | WASHER, 950+ DOOR LATCH ASSY | 12 |
| 74 | 05018650 0045 | FASTNER, 950+ DOOR LATCH ASSY | 12 |
| 75 | 05018650 0046 | LATCH, CAM QUARTER TURN | 2 |
| 76 | 06001002 | TAPE,GASKET,1/8" THK X 1" WIDE | 140 FT |

ENCLOSURE ASSEMBLY, DUAL AXLE (CONTINUED)

ROOF ASSEMBLY

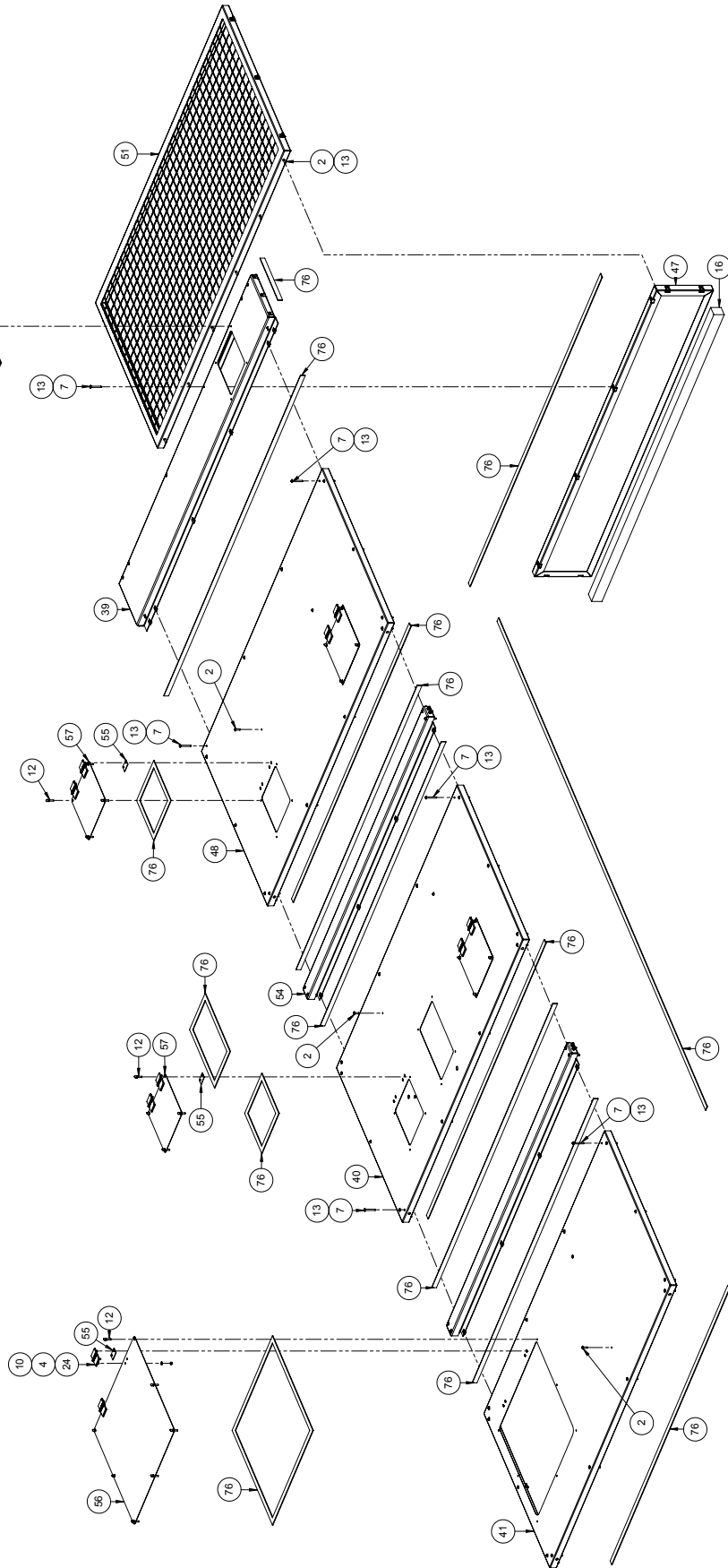


FIGURE 8-35. 00717598 0124 (REV 05)

00717598 0124 ENCLOSURE ASSEMBLY, DUAL AXLE

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|-------------------|---------------------------------------|-----|
| 1 | 00900112 0011 | BOLT,HEX 1/4-20 X 1 GR8 | 16 |
| 2 | 00900112 0071 | BOLT,HEX .250-20 X 2.500 GR8 | 12 |
| 3 | 00900303 0001 | WASHER, LOCK .250 STAINLESS | 36 |
| 4 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 212 |
| 5 | 00900391 0002 | BOLT,TPHMS .250-20 X .750 SS W NYL | 36 |
| 2 | 00900391 0013 | BOLT, TPHMS 1/4-20 X 1.00 SS W NYL | 96 |
| 7 | 00900391 0068 | BOLT, TPHMS .25-20 X 2.25 SS W NYL | 206 |
| 8 | 00900391 0145 | BOLT, TPHMS .25-20 X 4.00 SS W NYL | 4 |
| 9 | 00900490 0130 | NUT, NYLOK .250-20 STAINLESS STEEL | 125 |
| 10 | 00900493 0001 | NUT, NYLOK M6X1.00 ZINC PLATED | 152 |
| 11 | 00903775 0196 | BEARING, BRONZE FLANGE .376 ID | 12 |
| 12 | 00906771 0114 | SCREW, THUMB 1/4-20 X 1" SS | 27 |
| 13 | 00909088 0010 | NUT,SPEED 1/4-20 U-TYPE | 260 |
| 14 | 00910195 0009 | PLUG, HOLE, LOCKING,7/16" HOLE | 6 |
| 15 | 00910195 0013 | PLUG, HOLE, LOCKING. .375 | 28 |
| 16 | 01900007 0278 | ACOUSTIC,UPPER END,ROOF,HOR. | 3 |
| 17 | 01900060 0001 | BOLT,HEX FLANGE 1/4-20X3/4 SS | 37 |
| 18 | 01900216 0607 | BRACKET, ROD LATCH 950+ | 12 |
| 19 | 01900216 0608 | BRACKET, ROD GUIDE 950+ | 12 |
| 20 | 01900216 0679 | BRACKET, ENCLOSURE SHIPPING | 6 |
| 21 | 01900224 0026 | BUMPER,RUBBER 1-1/2" DIA | 12 |
| 22 | 01900702 0170 | GUARD, LOUVER REAR 950+ | 1 |
| 23 | 01900752 0089 | HINGE, DOOR | 4 |
| 24 | 01900752 0105 | HINGE, BLACK ZINC, 950+ | 34 |
| 25 | 01901000 0918 | PANEL,REAR CORNER CURB 950+ | 1 |
| 26 | 01901000 0919 | PANEL,REAR CORNER ROAD 950+ | 1 |
| 27 | 01901000 0920 | PANEL, ANGLE PANEL ROAD 950+ | 1 |
| 28 | 01901000 0921 | PANEL,ANGLE PANEL CURB 950+ | 1 |
| 29 | 01901000 0922 | PANEL,REAR BOTTOM 950+ | 1 |
| 30 | 01901000 0923 | PANEL,FENDER CURB 950+ | 1 |
| 31 | 01901000 0924 | PANEL,FENDER ROAD 950+ | 1 |
| 32 | 01901000 0925 | PANEL,DOOR CENTER 950+ | 2 |
| 33 | 01901000 0931GRAY | PANEL,FRONT PANEL CURB 950+ | 1 |
| 34 | 01901000 0932GRAY | PANEL, FRONT PANEL ROAD 950+ | 1 |
| 35 | 01901000 0933GRAY | PANEL,FRONT CORNER ROAD 950+ | 1 |
| 36 | 01901000 0934GRAY | PANEL,FRONT CORNER CURB 950+ | 1 |
| 37 | 01901000 0935GRAY | PANEL,FRONT BOTTOM 950+ | 1 |
| 38 | 01901000 0936GRAY | PANEL,FRONT NOSE 950+ | 1 |
| 39 | 01901000 0937 | PANEL,ROOF FRONT 950+ | 1 |
| 40 | 01901000 0938 | PANEL,ROOF CENTER 950+ | 1 |
| 41 | 01901000 0939 | PANEL,ROOF REAR 950+ | 1 |
| 42 | 01901000 0940 | PANEL,MASTER DOOR 950+ | 5 |
| 43 | 01901000 0940GRAY | PANEL,MASTER DOOR 950+ GRAY | 1 |
| 44 | 01901000 0941 | PANEL,SLAVE DOOR 950+ | 2 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|-------------------|--------------------------------|--------|
| 45 | 01901000 0941GRAY | PANEL,SLAVE DOOR 950+ GRAY | 1 |
| 46 | 01901000 0942GRAY | PANEL,WHEEL WELL 950+ | 2 |
| 47 | 01901000 0943GRAY | PANEL,COOLER BAFFLE 950+ | 1 |
| 48 | 01901000 0944 | PANEL,ROOF CENTER 950+ | 1 |
| 49 | 01901000 0945 | PANEL,INST PANEL DOOR 950+ | 1 |
| 50 | 01901000 0971 | PANEL, LIFT BAIL ACCESS | 1 |
| 51 | 01901000 0975GRAY | PANEL, AIR OUTLET COVER | 1 |
| 52 | 01901000 0976GRAY | PANEL, FUEL DOOR 950+ | 1 |
| 53 | 01901000 0985 | PANEL, ROOF SUPPORT RAIL 950+ | 2 |
| 54 | 01901000 0986 | PANEL, ROOF CROSS SUPPORT 950+ | 2 |
| 55 | 01901000 0997 | PANEL, HINGE FOOT | 10 |
| 56 | 01901000 0998 | PANEL, RECEIVER ACCESS 950+ | 1 |
| 57 | 01901000 0999 | PANEL, LIFT BAIL ACCESS | 4 |
| 58 | 01901000 1161 | PANEL, DOOR LOUVER 950+ | 3 |
| 59 | 01901256 0003 | RIVET,BLIND,3/16"X.126-.250 SS | 6 |
| 60 | 01901288 0028 | SCREW, M6-1MM X 25MM PHILLIPS | 16 |
| 61 | 01901295 0022 | SEAL, EDGE-GRIP BULB ON SIDE | 140 FT |
| 62 | 03270-012 | LATCH, CAM SLOTTED HEAD | 12 |
| 63 | 03903297 0024 | LOUVER, CURBSIDE 2 950+ | 1 |
| 64 | 03903297 0025 | LOUVER, CURBSIDE 2 950+ | 1 |
| 65 | 03903297 0026 | LOUVER, ROADSIDE 1 950+ | 1 |
| 66 | 03903297 0027 | LOUVER, CURBSIDE 2 950+ | 1 |
| 67 | 03903297 0028 | LOUVER, REAR W/LIGHTS 950+ | 1 |
| 68 | 03903297 0035 | LOUVER, DOOR ASSY 950+ | 3 |
| 69 | 05018650 0033 | LATCH, WING KNOB 1/4 TURN | 2 |
| 70 | 05018650 0040 | LATCH, HANDLE CHROME 950+ | 6 |
| 71 | 05018650 0041 | LATCH, .375 ROD 950+ | 12 |
| 72 | 05018650 0043 | ROD, .375 ROD | 12 |
| 73 | 05018650 0044 | WASHER, 950+ DOOR LATCH ASSY | 12 |
| 74 | 05018650 0045 | FASTNER, 950+ DOOR LATCH ASSY | 12 |
| 75 | 05018650 0046 | LATCH, CAM QUARTER TURN | 2 |
| 76 | 06001002 | TAPE,GASKET,1/8" THK X 1" WIDE | 140 FT |

ENCLOSURE ASSEMBLY, DUAL AXLE (CONTINUED)

DOOR ASSEMBLY

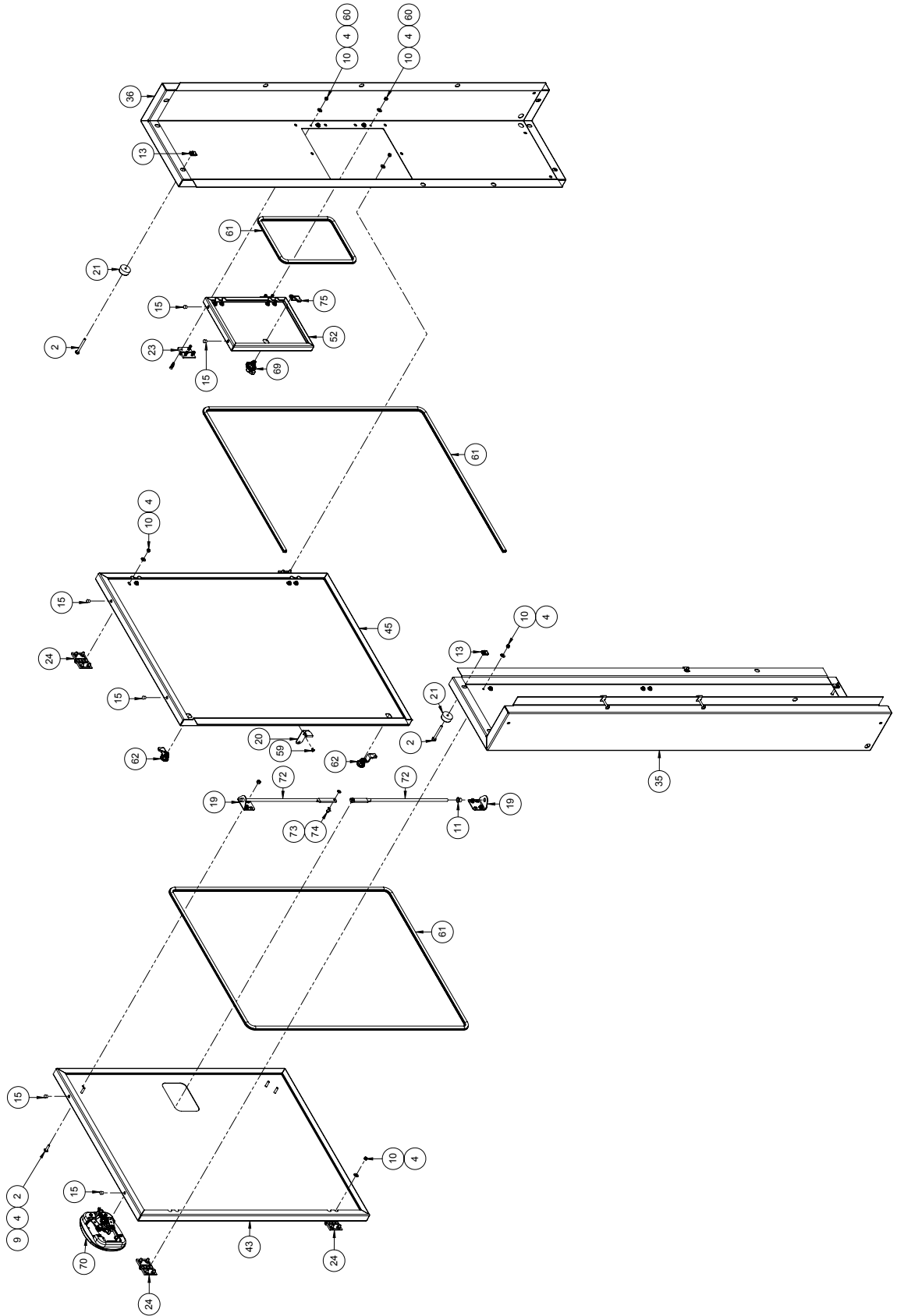


FIGURE 8-36. 00717598 0124 (REV 05)

00717598 0124 ENCLOSURE ASSEMBLY, DUAL AXLE

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|-------------------|---------------------------------------|-----|
| 1 | 00900112 0011 | BOLT,HEX 1/4-20 X 1 GR8 | 16 |
| 2 | 00900112 0071 | BOLT,HEX .250-20 X 2.500 GR8 | 12 |
| 3 | 00900303 0001 | WASHER, LOCK .250 STAINLESS | 36 |
| 4 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 212 |
| 5 | 00900391 0002 | BOLT,TPHMS .250-20 X .750 SS W NYL | 36 |
| 2 | 00900391 0013 | BOLT, TPHMS 1/4-20 X 1.00 SS W NYL | 96 |
| 7 | 00900391 0068 | BOLT, TPHMS .25-20 X 2.25 SS W NYL | 206 |
| 8 | 00900391 0145 | BOLT, TPHMS .25-20 X 4.00 SS W NYL | 4 |
| 9 | 00900490 0130 | NUT, NYLON .250-20 STAINLESS STEEL | 125 |
| 10 | 00900493 0001 | NUT, NYLON M6X1.00 ZINC PLATED | 152 |
| 11 | 00903775 0196 | BEARING, BRONZE FLANGE .376 ID | 12 |
| 12 | 00906771 0114 | SCREW, THUMB 1/4-20 X 1" SS | 27 |
| 13 | 00909088 0010 | NUT,SPEED 1/4-20 U-TYPE | 260 |
| 14 | 00910195 0009 | PLUG, HOLE, LOCKING,7/16" HOLE | 6 |
| 15 | 00910195 0013 | PLUG, HOLE, LOCKING. .375 | 28 |
| 16 | 01900007 0278 | ACOUSTIC,UPPER END,ROOF,HOR. | 3 |
| 17 | 01900060 0001 | BOLT,HEX FLANGE 1/4-20X3/4 SS | 37 |
| 18 | 01900216 0607 | BRACKET, ROD LATCH 950+ | 12 |
| 19 | 01900216 0608 | BRACKET, ROD GUIDE 950+ | 12 |
| 20 | 01900216 0679 | BRACKET, ENCLOSURE SHIPPING | 6 |
| 21 | 01900224 0026 | BUMPER,RUBBER 1-1/2" DIA | 12 |
| 22 | 01900702 0170 | GUARD, LOUVER REAR 950+ | 1 |
| 23 | 01900752 0089 | HINGE, DOOR | 4 |
| 24 | 01900752 0105 | HINGE, BLACK ZINC, 950+ | 34 |
| 25 | 01901000 0918 | PANEL,REAR CORNER CURB 950+ | 1 |
| 26 | 01901000 0919 | PANEL,REAR CORNER ROAD 950+ | 1 |
| 27 | 01901000 0920 | PANEL, ANGLE PANEL ROAD 950+ | 1 |
| 28 | 01901000 0921 | PANEL,ANGLE PANEL CURB 950+ | 1 |
| 29 | 01901000 0922 | PANEL,REAR BOTTOM 950+ | 1 |
| 30 | 01901000 0923 | PANEL,FENDER CURB 950+ | 1 |
| 31 | 01901000 0924 | PANEL,FENDER ROAD 950+ | 1 |
| 32 | 01901000 0925 | PANEL,DOOR CENTER 950+ | 2 |
| 33 | 01901000 0931GRAY | PANEL,FRONT PANEL CURB 950+ | 1 |
| 34 | 01901000 0932GRAY | PANEL, FRONT PANEL ROAD 950+ | 1 |
| 35 | 01901000 0933GRAY | PANEL,FRONT CORNER ROAD 950+ | 1 |
| 36 | 01901000 0934GRAY | PANEL,FRONT CORNER CURB 950+ | 1 |
| 37 | 01901000 0935GRAY | PANEL,FRONT BOTTOM 950+ | 1 |
| 38 | 01901000 0936GRAY | PANEL,FRONT NOSE 950+ | 1 |
| 39 | 01901000 0937 | PANEL,ROOF FRONT 950+ | 1 |
| 40 | 01901000 0938 | PANEL,ROOF CENTER 950+ | 1 |
| 41 | 01901000 0939 | PANEL,ROOF REAR 950+ | 1 |
| 42 | 01901000 0940 | PANEL,MASTER DOOR 950+ | 5 |
| 43 | 01901000 0940GRAY | PANEL,MASTER DOOR 950+ GRAY | 1 |
| 44 | 01901000 0941 | PANEL,SLAVE DOOR 950+ | 2 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|-------------------|--------------------------------|--------|
| 45 | 01901000 0941GRAY | PANEL,SLAVE DOOR 950+ GRAY | 1 |
| 46 | 01901000 0942GRAY | PANEL,WHEEL WELL 950+ | 2 |
| 47 | 01901000 0943GRAY | PANEL,COOLER BAFFLE 950+ | 1 |
| 48 | 01901000 0944 | PANEL,ROOF CENTER 950+ | 1 |
| 49 | 01901000 0945 | PANEL,INST PANEL DOOR 950+ | 1 |
| 50 | 01901000 0971 | PANEL, LIFT BAIL ACCESS | 1 |
| 51 | 01901000 0975GRAY | PANEL, AIR OUTLET COVER | 1 |
| 52 | 01901000 0976GRAY | PANEL, FUEL DOOR 950+ | 1 |
| 53 | 01901000 0985 | PANEL, ROOF SUPPORT RAIL 950+ | 2 |
| 54 | 01901000 0986 | PANEL, ROOF CROSS SUPPORT 950+ | 2 |
| 55 | 01901000 0997 | PANEL, HINGE FOOT | 10 |
| 56 | 01901000 0998 | PANEL, RECEIVER ACCESS 950+ | 1 |
| 57 | 01901000 0999 | PANEL, LIFT BAIL ACCESS | 4 |
| 58 | 01901000 1161 | PANEL, DOOR LOUVER 950+ | 3 |
| 59 | 01901256 0003 | RIVET,BLIND,3/16"X.126-.250 SS | 6 |
| 60 | 01901288 0028 | SCREW, M6-1MM X 25MM PHILLIPS | 16 |
| 61 | 01901295 0022 | SEAL, EDGE-GRIP BULB ON SIDE | 140 FT |
| 62 | 03270-012 | LATCH, CAM SLOTTED HEAD | 12 |
| 63 | 03903297 0024 | LOUVER, CURBSIDE 2 950+ | 1 |
| 64 | 03903297 0025 | LOUVER, CURBSIDE 2 950+ | 1 |
| 65 | 03903297 0026 | LOUVER, ROADSIDE 1 950+ | 1 |
| 66 | 03903297 0027 | LOUVER, CURBSIDE 2 950+ | 1 |
| 67 | 03903297 0028 | LOUVER, REAR W/LIGHTS 950+ | 1 |
| 68 | 03903297 0035 | LOUVER, DOOR ASSY 950+ | 3 |
| 69 | 05018650 0033 | LATCH, WING KNOB 1/4 TURN | 2 |
| 70 | 05018650 0040 | LATCH, HANDLE CHROME 950+ | 6 |
| 71 | 05018650 0041 | LATCH, .375 ROD 950+ | 12 |
| 72 | 05018650 0043 | ROD, .375 ROD | 12 |
| 73 | 05018650 0044 | WASHER, 950+ DOOR LATCH ASSY | 12 |
| 74 | 05018650 0045 | FASTNER, 950+ DOOR LATCH ASSY | 12 |
| 75 | 05018650 0046 | LATCH, CAM QUARTER TURN | 2 |
| 76 | 06001002 | TAPE,GASKET,1/8" THK X 1" WIDE | 140 FT |

00717752 0301 MACHINE DRESS

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---|-----|
| 1 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 4 |
| 2 | 00900389 0031 | BOLT, TPHMS .25-20 X 4.00 S5 | 4 |
| 3 | 00900490 0130 | NUT, NYLOK .250--20 STAINLESS STEEL | 4 |
| 4 | 01900190 0010 | BOX, MANUAL HOLDER 8.5X11.0 | 1 |
| 5 | 01900216 0639 | BRACKET, EXH TIE DOWN T3 950+ | 2 |
| 6 | 01901136 0003 | PLATE, IDENTIFICATION | 1 |
| 7 | 05017057 0003 | DECAL KIT, SAFETY 950+ | 1 |
| 7.1 | 01228378 0005 | DECAL, DANGER - HOT OIL | 1 |
| 7.2 | 01228378 0046 | DECAL, WARNING: NOT FOR BREATHING | 1 |
| 7.3 | 01228378 0052 | DECAL, ADHERE TO INSTRUCTIONS | 1 |
| 7.4 | 01228378 0054 | DECAL, WARNING PROPER OPERATION | 4 |
| 7.5 | 01900456 0059 | DECAL, PROP 65 WARNING CALIFOR | 1 |
| 7.6 | 01900464 0007 | DECAL, ROTATING PARTS | 2 |
| 7.7 | 01900464 0094 | DECAL, QUALITY ACCEPTED | 1 |
| 7.8 | 01900464 0104 | DECAL, AMERICAN FLAG | 2 |
| 7.9 | 01900464 0538 | DECAL, FUEL WARNING ULTRA LOW | 1 |
| 7.10 | 01900464 0303 | DECAL, DANGER, KEEP HANDS CLEAR | 2 |
| 7.11 | 01900464 0308 | DECAL, OPERATING INSTRUCTIONS D175-D375 | 1 |
| 7.12 | 01900464 0344 | DECAL, EMISSION CONTROL | 1 |
| 7.13 | 01900464 0411 | DECAL, OIL FILL LEVEL | 1 |
| 7.14 | 01900464 0426 | DECAL, EXPLOSION HAZARD ULSD | 1 |
| 7.15 | 01900464 0465 | DECAL, POWER/START STOP SWITCH | 1 |
| 7.16 | 01900464 0466 | DECAL, CONTAINMENT FRAME | 6 |
| 7.17 | 01900464 0470 | DECAL, LINE AIR 700+ | 1 |
| 7.18 | 01900464 0471 | DECAL, AFTERCOOLED AIR 700+ | 1 |
| 7.19 | 01900464 0472 | DECAL, DRAIN PORTS 700+ | 2 |
| 7.20 | 01900464 0473 | DECAL, BATTERY DISCONNECT 700+ | 1 |
| 8 | 05017057 0005 | DECAL KIT, MODEL 1600 ORANGE | 1 |
| 8.1 | 01900464 0338 | DECAL, WEATHER-ALL COMPR. FLUID | 1 |
| 8.2 | 01900464 0456 | DECAL, D1600HAF ORG 3.5 X 16.5 | 3 |
| 8.3 | 01900464 0457 | DECAL, D1600HAF BK 2.5 X 11.75 | 1 |
| 9 | 05017057 0019 | DECAL KIT, BRAND SUL-PAL 950+ | 1 |
| 9.1 | 01900464 0459 | DECAL, SUL-PAL BK 15.75 X 48.00 | 1 |
| 9.2 | 01900464 0462 | DECAL, SP STRIPE CURBSIDE 1600 | 1 |
| 9.3 | 01900464 0463 | DECAL, SP STRIPE ROADSIDE 1600 | 1 |
| 9.4 | 01900464 0511 | DECAL, SUL-PAL BK CURBSIDE 950+ | 1 |
| 9.5 | 01900464 0512 | DECAL, SUL-PAL BK ROADSIDE 950+ | 1 |
| 9.6 | 01900464 0513 | DECAL, SUL-PAL BK 9.25 X 28.00 | 1 |

MACHINE DRESS (CONTINUED)

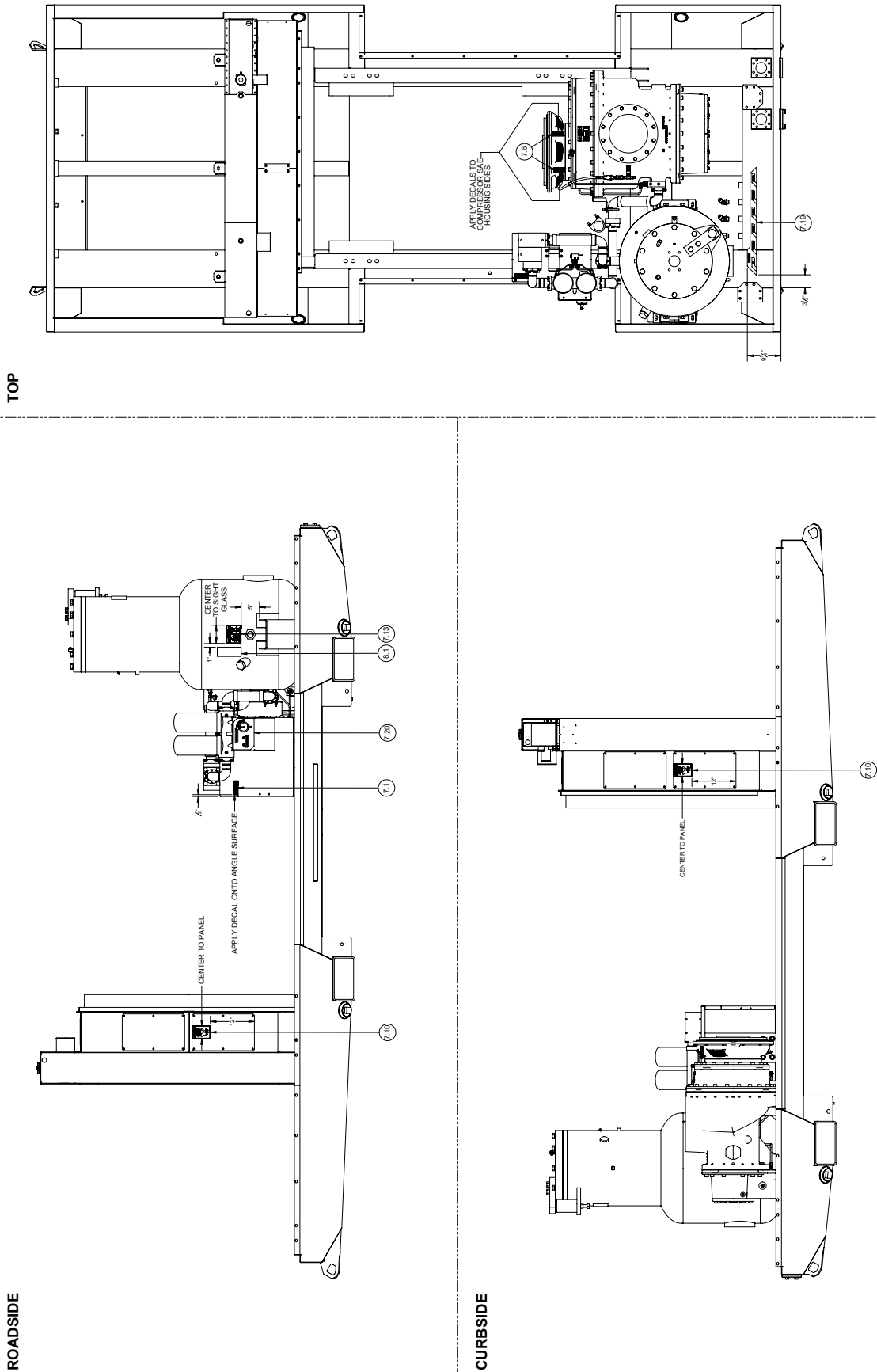


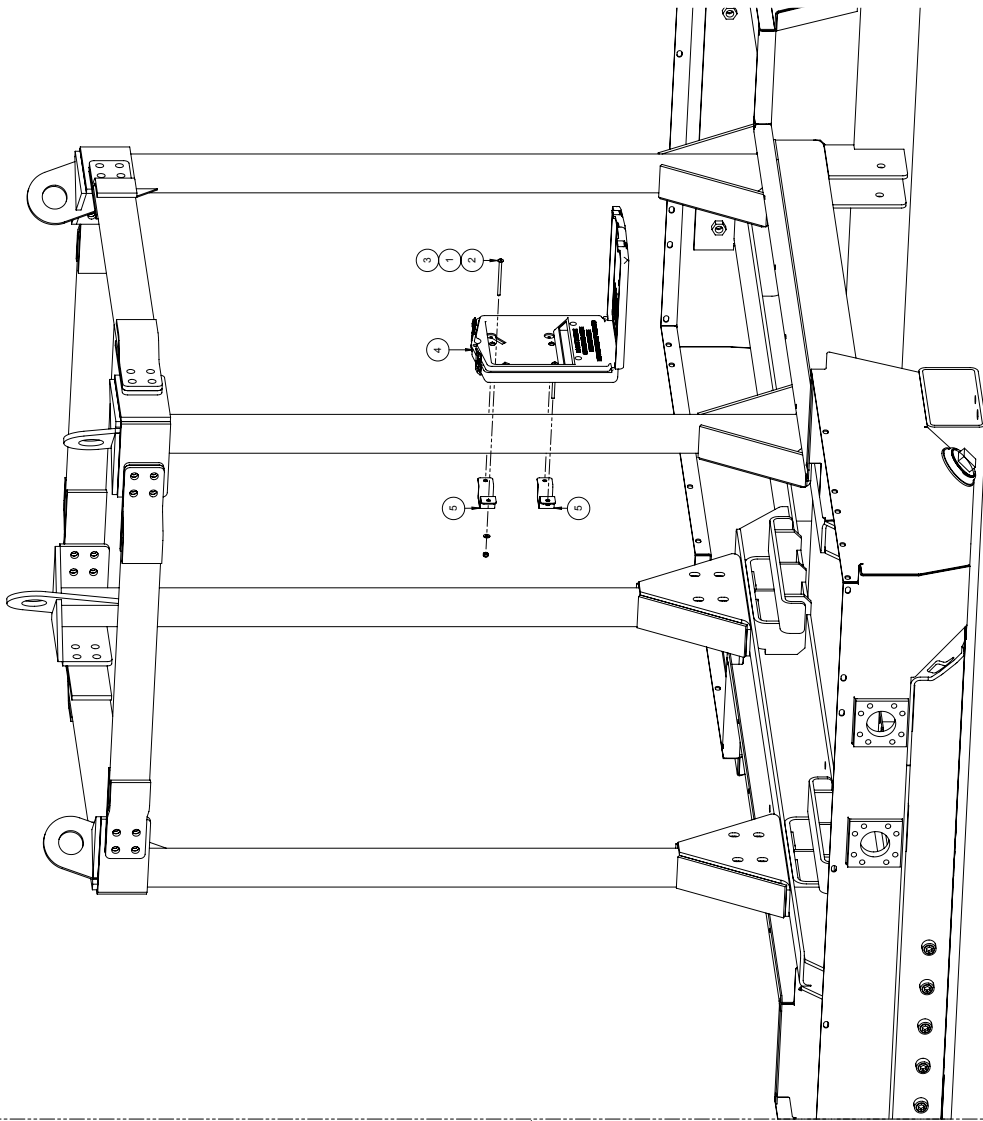
FIGURE 8-38. 00717752 0301 (REV 04)

00717752 0301 MACHINE DRESS

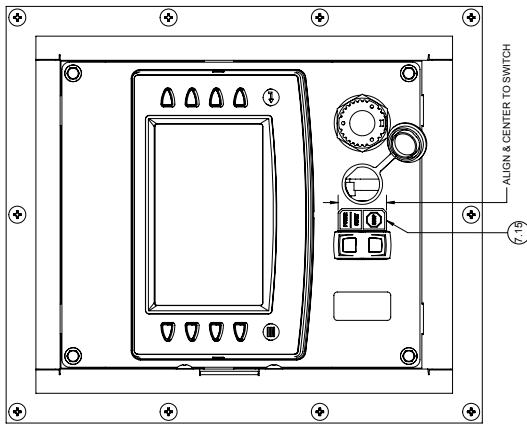
| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---|-----|
| 1 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 4 |
| 2 | 00900389 0031 | BOLT, TPHMS .25-20 X 4.00 S5 | 4 |
| 3 | 00900490 0130 | NUT, NYLOK .250--20 STAINLESS STEEL | 4 |
| 4 | 01900190 0010 | BOX, MANUAL HOLDER 8.5X11.0 | 1 |
| 5 | 01900216 0639 | BRACKET, EXH TIE DOWN T3 950+ | 2 |
| 6 | 01901136 0003 | PLATE, IDENTIFICATION | 1 |
| 7 | 05017057 0003 | DECAL KIT, SAFETY 950+ | 1 |
| 7.1 | 01228378 0005 | DECAL, DANGER - HOT OIL | 1 |
| 7.2 | 01228378 0046 | DECAL, WARNING: NOT FOR BREATHING | 1 |
| 7.3 | 01228378 0052 | DECAL, ADHERE TO INSTRUCTIONS | 1 |
| 7.4 | 01228378 0054 | DECAL, WARNING PROPER OPERATION | 4 |
| 7.5 | 01900456 0059 | DECAL, PROP 65 WARNING CALIFOR | 1 |
| 7.6 | 01900464 0007 | DECAL, ROTATING PARTS | 2 |
| 7.7 | 01900464 0094 | DECAL, QUALITY ACCEPTED | 1 |
| 7.8 | 01900464 0104 | DECAL, AMERICAN FLAG | 2 |
| 7.9 | 01900464 0538 | DECAL, FUEL WARNING ULTRA LOW | 1 |
| 7.10 | 01900464 0303 | DECAL, DANGER, KEEP HANDS CLEAR | 2 |
| 7.11 | 01900464 0308 | DECAL, OPERATING INSTRUCTIONS D175-D375 | 1 |
| 7.12 | 01900464 0344 | DECAL, EMISSION CONTROL | 1 |
| 7.13 | 01900464 0411 | DECAL, OIL FILL LEVEL | 1 |
| 7.14 | 01900464 0426 | DECAL, EXPLOSION HAZARD ULSD | 1 |
| 7.15 | 01900464 0465 | DECAL, POWER/START STOP SWITCH | 1 |
| 7.16 | 01900464 0466 | DECAL, CONTAINMENT FRAME | 6 |
| 7.17 | 01900464 0470 | DECAL, LINE AIR 700+ | 1 |
| 7.18 | 01900464 0471 | DECAL, AFTERCOOLED AIR 700+ | 1 |
| 7.19 | 01900464 0472 | DECAL, DRAIN PORTS 700+ | 2 |
| 7.20 | 01900464 0473 | DECAL, BATTERY DISCONNECT 700+ | 1 |
| 8 | 05017057 0005 | DECAL KIT, MODEL 1600 ORANGE | 1 |
| 8.1 | 01900464 0338 | DECAL, WEATHER-ALL COMPR. FLUID | 1 |
| 8.2 | 01900464 0456 | DECAL, D1600HAF ORG 3.5 X 16.5 | 3 |
| 8.3 | 01900464 0457 | DECAL, D1600HAF BK 2.5 X 11.75 | 1 |
| 9 | 05017057 0019 | DECAL KIT, BRAND SUL-PAL 950+ | 1 |
| 9.1 | 01900464 0459 | DECAL, SUL-PAL BK 15.75 X 48.00 | 1 |
| 9.2 | 01900464 0462 | DECAL, SP STRIPE CURBSIDE 1600 | 1 |
| 9.3 | 01900464 0463 | DECAL, SP STRIPE ROADSIDE 1600 | 1 |
| 9.4 | 01900464 0511 | DECAL, SUL-PAL BK CURBSIDE 950+ | 1 |
| 9.5 | 01900464 0512 | DECAL, SUL-PAL BK ROADSIDE 950+ | 1 |
| 9.6 | 01900464 0513 | DECAL, SUL-PAL BK 9.25 X 28.00 | 1 |

MACHINE DRESS (CONTINUED)

MANUAL BOX



INSTRUMENT PANEL



INSTRUMENT PANEL DOOR - INSIDE VIEW

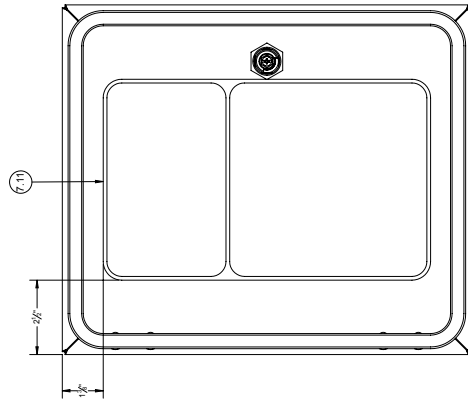


FIGURE 8-39. 00717752 0301 (REV 04)

00717752 0301 MACHINE DRESS

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---|-----|
| 1 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 4 |
| 2 | 00900389 0031 | BOLT, TPHMS .25-20 X 4.00 S5 | 4 |
| 3 | 00900490 0130 | NUT, NYLOK .250--20 STAINLESS STEEL | 4 |
| 4 | 01900190 0010 | BOX, MANUAL HOLDER 8.5X11.0 | 1 |
| 5 | 01900216 0639 | BRACKET, EXH TIE DOWN T3 950+ | 2 |
| 6 | 01901136 0003 | PLATE, IDENTIFICATION | 1 |
| 7 | 05017057 0003 | DECAL KIT, SAFETY 950+ | 1 |
| 7.1 | 01228378 0005 | DECAL, DANGER - HOT OIL | 1 |
| 7.2 | 01228378 0046 | DECAL, WARNING: NOT FOR BREATHING | 1 |
| 7.3 | 01228378 0052 | DECAL, ADHERE TO INSTRUCTIONS | 1 |
| 7.4 | 01228378 0054 | DECAL, WARNING PROPER OPERATION | 4 |
| 7.5 | 01900456 0059 | DECAL, PROP 65 WARNING CALIFOR | 1 |
| 7.6 | 01900464 0007 | DECAL, ROTATING PARTS | 2 |
| 7.7 | 01900464 0094 | DECAL, QUALITY ACCEPTED | 1 |
| 7.8 | 01900464 0104 | DECAL, AMERICAN FLAG | 2 |
| 7.9 | 01900464 0538 | DECAL, FUEL WARNING ULTRA LOW | 1 |
| 7.10 | 01900464 0303 | DECAL, DANGER, KEEP HANDS CLEAR | 2 |
| 7.11 | 01900464 0308 | DECAL, OPERATING INSTRUCTIONS D175-D375 | 1 |
| 7.12 | 01900464 0344 | DECAL, EMISSION CONTROL | 1 |
| 7.13 | 01900464 0411 | DECAL, OIL FILL LEVEL | 1 |
| 7.14 | 01900464 0426 | DECAL, EXPLOSION HAZARD ULSD | 1 |
| 7.15 | 01900464 0465 | DECAL, POWER/START STOP SWITCH | 1 |
| 7.16 | 01900464 0466 | DECAL, CONTAINMENT FRAME | 6 |
| 7.17 | 01900464 0470 | DECAL, LINE AIR 700+ | 1 |
| 7.18 | 01900464 0471 | DECAL, AFTERCOOLED AIR 700+ | 1 |
| 7.19 | 01900464 0472 | DECAL, DRAIN PORTS 700+ | 2 |
| 7.20 | 01900464 0473 | DECAL, BATTERY DISCONNECT 700+ | 1 |
| 8 | 05017057 0005 | DECAL KIT, MODEL 1600 ORANGE | 1 |
| 8.1 | 01900464 0338 | DECAL, WEATHER-ALL COMPR. FLUID | 1 |
| 8.2 | 01900464 0456 | DECAL, D1600HAF ORG 3.5 X 16.5 | 3 |
| 8.3 | 01900464 0457 | DECAL, D1600HAF BK 2.5 X 11.75 | 1 |
| 9 | 05017057 0019 | DECAL KIT, BRAND SUL-PAL 950+ | 1 |
| 9.1 | 01900464 0459 | DECAL, SUL-PAL BK 15.75 X 48.00 | 1 |
| 9.2 | 01900464 0462 | DECAL, SP STRIPE CURBSIDE 1600 | 1 |
| 9.3 | 01900464 0463 | DECAL, SP STRIPE ROADSIDE 1600 | 1 |
| 9.4 | 01900464 0511 | DECAL, SUL-PAL BK CURBSIDE 950+ | 1 |
| 9.5 | 01900464 0512 | DECAL, SUL-PAL BK ROADSIDE 950+ | 1 |
| 9.6 | 01900464 0513 | DECAL, SUL-PAL BK 9.25 X 28.00 | 1 |

8.23 ACOUSTICS ASSEMBLY

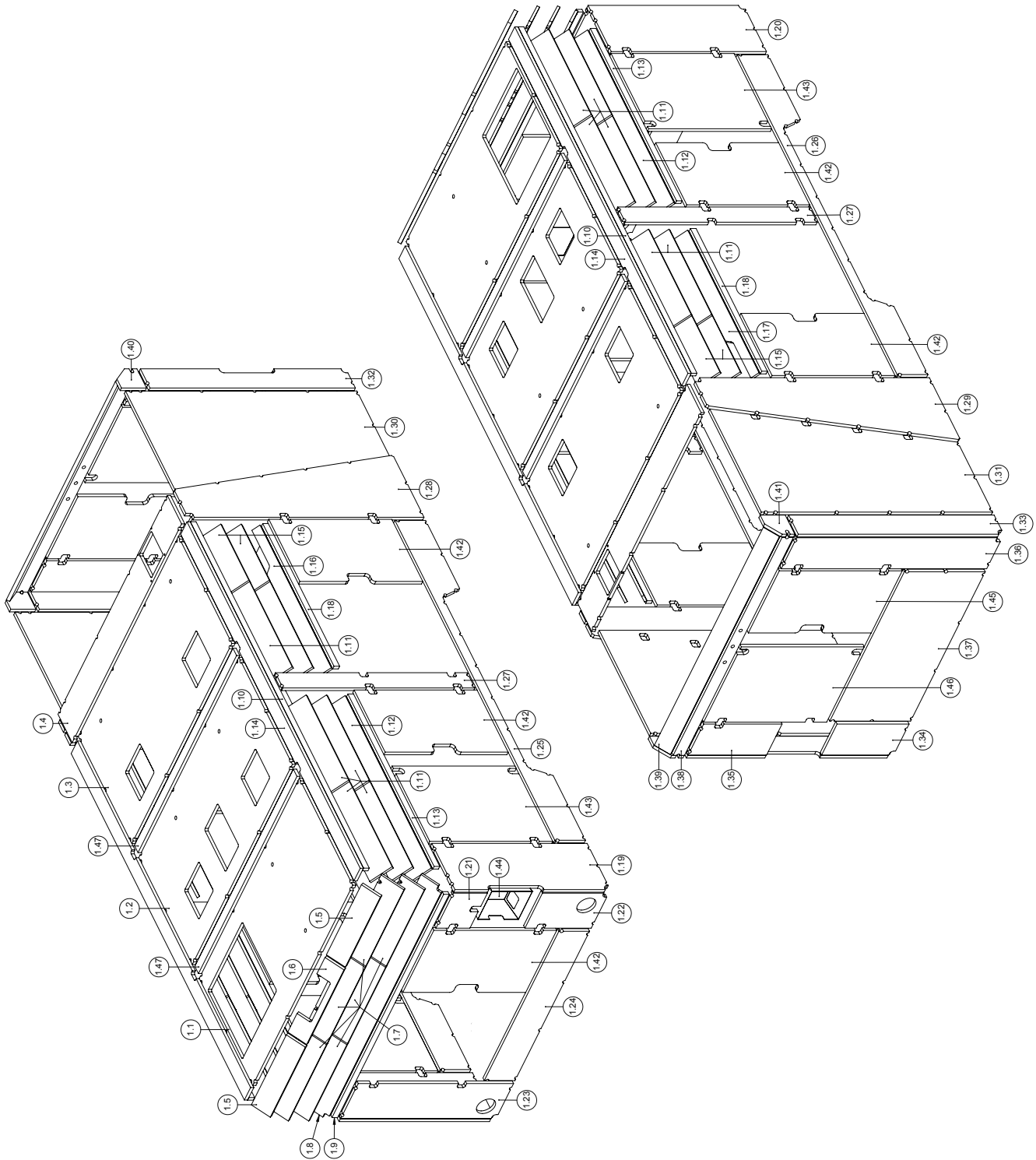


FIGURE 8-40. 00717100 0014 (REV 01)

00717100 0014 ACOUSTICS ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---------------------------------|-----|
| 1 | 00900007 0001 | ACOUSTICS, KIT 950+, ENCLOSURE | 1 |
| 1.1 | 01900007 0308 | ACOUSTIC, ROOF PANEL-1 950+ | 1 |
| 1.2 | 01900007 0309 | ACOUSTIC, ROOF PANEL-2 950+ | 1 |
| 1.3 | 01900007 0310 | ACOUSTIC, ROOF PANEL-3 950+ | 1 |
| 1.4 | 01900007 0311 | ACOUSTIC, ROOF PANEL-4 950+ | 1 |
| 1.5 | 01900007 0312 | ACOUSTIC, REAR LVR BLADE-1 950+ | 2 |
| 1.6 | 01900007 0313 | ACOUSTIC, REAR LVR BLADE-2 950+ | 1 |
| 1.7 | 01900007 0314 | ACOUSTIC, REAR LVR BLADE-3 950+ | 6 |
| 1.8 | 01900007 0315 | ACOUSTIC, REAR LVR BLADE-4 950+ | 1 |
| 1.9 | 01900007 0316 | ACOUSTIC, REAR LVR BTM 950+ | 1 |
| 1.10 | 01900007 0317 | ACOUSTIC, ROOF RAIL-1 950+ | 2 |
| 1.11 | 01900007 0318 | ACOUSTIC, SIDE LVR BLADE-1 950+ | 12 |
| 1.12 | 01900007 0319 | ACOUSTIC, SIDE LVR BLADE-2 950+ | 2 |
| 1.13 | 01900007 0320 | ACOUSTIC, SIDE LVR BTM-1 950+ | 2 |
| 1.14 | 01900007 0321 | ACOUSTIC, ROOF RAIL-2 950+ | 2 |
| 1.15 | 01900007 0322 | ACOUSTIC, SIDE LVR BLADE-3 950+ | 4 |
| 1.16 | 01900007 0323 | ACOUSTIC, SIDE LVR BLADE-4 950+ | 1 |
| 1.17 | 01900007 0324 | ACOUSTIC, SIDE LVR BLADE-5 950+ | 1 |
| 1.18 | 01900007 0325 | ACOUSTIC, SIDE LVR BTM-2 950+ | 2 |
| 1.19 | 01900007 0326 | ACOUSTIC, REAR CURB COR-1 950+ | 1 |
| 1.20 | 01900007 0327 | ACOUSTIC, REAR ROAD COR-1 950+ | 1 |
| 1.21 | 01900007 0328 | ACOUSTIC, REAR CURB COR-2 950+ | 1 |
| 1.22 | 01900007 0329 | ACOUSTIC, REAR CURB COR-3 950+ | 1 |
| 1.23 | 01900007 0330 | ACOUSTIC, REAR ROAD COR-2 950+ | 1 |
| 1.24 | 01900007 0331 | ACOUSTIC, REAR BTM PANEL 950+ | 1 |
| 1.25 | 01900007 0332 | ACOUSTIC, CURBSIDE FENDER 950+ | 1 |
| 1.26 | 01900007 0333 | ACOUSTIC, ROADSIDE FENDER 950+ | 1 |
| 1.27 | 01900007 0334 | ACOUSTIC, CENTER DOOR POST 950+ | 2 |
| 1.28 | 01900007 0335 | ACOUSTIC, CURB ANGLE PANEL 950+ | 1 |
| 1.29 | 01900007 0336 | ACOUSTIC, ROAD ANGLE PANEL 950+ | 1 |
| 1.30 | 01900007 0337 | ACOUSTIC, CURB FRONT PANEL 950+ | 1 |
| 1.31 | 01900007 0338 | ACOUSTIC, ROAD FRONT PANEL 950+ | 1 |
| 1.32 | 01900007 0339 | ACOUSTIC, FRONT CURB COR-1 950+ | 1 |
| 1.33 | 01900007 0340 | ACOUSTIC, FRONT ROAD COR-1 950+ | 1 |
| 1.34 | 01900007 0341 | ACOUSTIC, FRONT CURB COR-2 950+ | 1 |
| 1.35 | 01900007 0342 | ACOUSTIC, FRONT CURB COR-3 950+ | 1 |
| 1.36 | 01900007 0343 | ACOUSTIC, FRONT ROAD COR-2 950+ | 1 |
| 1.37 | 01900007 0344 | ACOUSTIC, FRONT BTM PANEL 950+ | 1 |
| 1.38 | 01900007 0345 | ACOUSTIC, FRONT NOSE BTM 950+ | 1 |
| 1.39 | 01900007 0346 | ACOUSTIC, FRONT NOSE TOP 950+ | 1 |
| 1.40 | 01900007 0347 | ACOUSTIC, FRONT NOSE CURB 950+ | 1 |
| 1.41 | 01900007 0348 | ACOUSTIC, FRONT NOSE ROAD 950+ | 1 |
| 1.42 | 01900007 0349 | ACOUSTIC, MASTER DOOR 950+ | 5 |
| 1.43 | 01900007 0350 | ACOUSTIC, SLAVE DOOR 950+ | 2 |

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|--------------------------------|-----|
| 1.44 | 01900007 0354 | ACOUSTIC, INST PANEL BOX 950+ | 1 |
| 1.45 | 01900007 0361 | ACOUSTIC, MASTER DOOR HOT 950+ | 1 |
| 1.46 | 01900007 0362 | ACOUSTIC, SLAVE DOOR HOT 950+ | 1 |
| 1.47 | 01900007 0363 | ACOUSTIC, ROOF CROSS 950+ | 2 |
| 2 | 00900007 0002 | ACOUSTICS, ASSY 950+ FUEL TANK | 1 |
| 2.1 | 01900007 0355 | ACOUSTIC, FUEL FILL BOX 950+ | 1 |
| 2.2 | 01900007 0356 | ACOUSTIC, FUEL TANK TOP 950+ | 1 |
| 2.3 | 01900007 0357 | ACOUSTIC, FUEL TANK CURB 950+ | 1 |
| 2.4 | 01900007 0358 | ACOUSTIC, FUEL TANK ROAD 950+ | 1 |
| 2.5 | 01900007 0359 | ACOUSTIC, FUEL TANK BACK 950+ | 1 |
| 2.6 | 01900007 0360 | ACOUSTIC, DEF TANK COVER 950+ | 1 |

ACOUSTICS ASSEMBLY (CONTINUED)

FUEL TANK ACOUSTIC

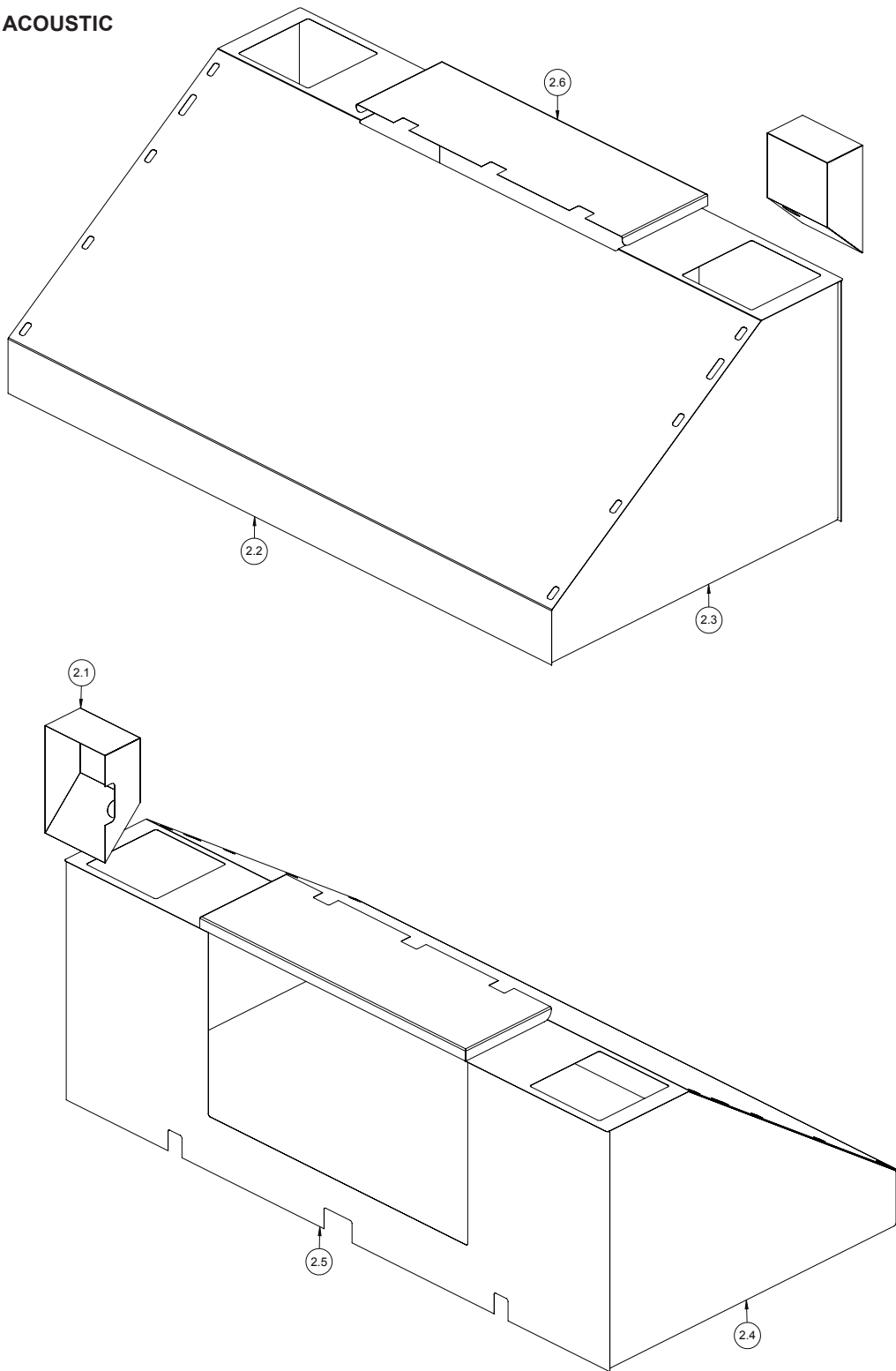


FIGURE 8-41. 00717100 0014 (REV 01)

00717100 0014 ACOUSTICS ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---------------------------------|-----|
| 1 | 00900007 0001 | ACOUSTICS, KIT 950+, ENCLOSURE | 1 |
| 1.1 | 01900007 0308 | ACOUSTIC, ROOF PANEL-1 950+ | 1 |
| 1.2 | 01900007 0309 | ACOUSTIC, ROOF PANEL-2 950+ | 1 |
| 1.3 | 01900007 0310 | ACOUSTIC, ROOF PANEL-3 950+ | 1 |
| 1.4 | 01900007 0311 | ACOUSTIC, ROOF PANEL-4 950+ | 1 |
| 1.5 | 01900007 0312 | ACOUSTIC, REAR LVR BLADE-1 950+ | 2 |
| 1.6 | 01900007 0313 | ACOUSTIC, REAR LVR BLADE-2 950+ | 1 |
| 1.7 | 01900007 0314 | ACOUSTIC, REAR LVR BLADE-3 950+ | 6 |
| 1.8 | 01900007 0315 | ACOUSTIC, REAR LVR BLADE-4 950+ | 1 |
| 1.9 | 01900007 0316 | ACOUSTIC, REAR LVR BTM 950+ | 1 |
| 1.10 | 01900007 0317 | ACOUSTIC, ROOF RAIL-1 950+ | 2 |
| 1.11 | 01900007 0318 | ACOUSTIC, SIDE LVR BLADE-1 950+ | 12 |
| 1.12 | 01900007 0319 | ACOUSTIC, SIDE LVR BLADE-2 950+ | 2 |
| 1.13 | 01900007 0320 | ACOUSTIC, SIDE LVR BTM-1 950+ | 2 |
| 1.14 | 01900007 0321 | ACOUSTIC, ROOF RAIL-2 950+ | 2 |
| 1.15 | 01900007 0322 | ACOUSTIC, SIDE LVR BLADE-3 950+ | 4 |
| 1.16 | 01900007 0323 | ACOUSTIC, SIDE LVR BLADE-4 950+ | 1 |
| 1.17 | 01900007 0324 | ACOUSTIC, SIDE LVR BLADE-5 950+ | 1 |
| 1.18 | 01900007 0325 | ACOUSTIC, SIDE LVR BTM-2 950+ | 2 |
| 1.19 | 01900007 0326 | ACOUSTIC, REAR CURB COR-1 950+ | 1 |
| 1.20 | 01900007 0327 | ACOUSTIC, REAR ROAD COR-1 950+ | 1 |
| 1.21 | 01900007 0328 | ACOUSTIC, REAR CURB COR-2 950+ | 1 |
| 1.22 | 01900007 0329 | ACOUSTIC, REAR CURB COR-3 950+ | 1 |
| 1.23 | 01900007 0330 | ACOUSTIC, REAR ROAD COR-2 950+ | 1 |
| 1.24 | 01900007 0331 | ACOUSTIC, REAR BTM PANEL 950+ | 1 |
| 1.25 | 01900007 0332 | ACOUSTIC, CURBSIDE FENDER 950+ | 1 |
| 1.26 | 01900007 0333 | ACOUSTIC, ROADSIDE FENDER 950+ | 1 |
| 1.27 | 01900007 0334 | ACOUSTIC, CENTER DOOR POST 950+ | 2 |
| 1.28 | 01900007 0335 | ACOUSTIC, CURB ANGLE PANEL 950+ | 1 |
| 1.29 | 01900007 0336 | ACOUSTIC, ROAD ANGLE PANEL 950+ | 1 |
| 1.30 | 01900007 0337 | ACOUSTIC, CURB FRONT PANEL 950+ | 1 |
| 1.31 | 01900007 0338 | ACOUSTIC, ROAD FRONT PANEL 950+ | 1 |
| 1.32 | 01900007 0339 | ACOUSTIC, FRONT CURB COR-1 950+ | 1 |
| 1.33 | 01900007 0340 | ACOUSTIC, FRONT ROAD COR-1 950+ | 1 |
| 1.34 | 01900007 0341 | ACOUSTIC, FRONT CURB COR-2 950+ | 1 |
| 1.35 | 01900007 0342 | ACOUSTIC, FRONT CURB COR-3 950+ | 1 |
| 1.36 | 01900007 0343 | ACOUSTIC, FRONT ROAD COR-2 950+ | 1 |
| 1.37 | 01900007 0344 | ACOUSTIC, FRONT BTM PANEL 950+ | 1 |
| 1.38 | 01900007 0345 | ACOUSTIC, FRONT NOSE BTM 950+ | 1 |
| 1.39 | 01900007 0346 | ACOUSTIC, FRONT NOSE TOP 950+ | 1 |
| 1.40 | 01900007 0347 | ACOUSTIC, FRONT NOSE CURB 950+ | 1 |
| 1.41 | 01900007 0348 | ACOUSTIC, FRONT NOSE ROAD 950+ | 1 |
| 1.42 | 01900007 0349 | ACOUSTIC, MASTER DOOR 950+ | 5 |
| 1.43 | 01900007 0350 | ACOUSTIC, SLAVE DOOR 950+ | 2 |
| 1.44 | 01900007 0354 | ACOUSTIC, INST PANEL BOX 950+ | 1 |
| 1.45 | 01900007 0361 | ACOUSTIC, MASTER DOOR HOT 950+ | 1 |
| 1.46 | 01900007 0362 | ACOUSTIC, SLAVE DOOR HOT 950+ | 1 |
| 1.47 | 01900007 0363 | ACOUSTIC, ROOF CROSS 950+ | 2 |
| 2 | 00900007 0002 | ACOUSTICS, ASSY 950+ FUEL TANK | 1 |
| 2.1 | 01900007 0355 | ACOUSTIC, FUEL FILL BOX 950+ | 1 |
| 2.2 | 01900007 0356 | ACOUSTIC, FUEL TANK TOP 950+ | 1 |
| 2.3 | 01900007 0357 | ACOUSTIC, FUEL TANK CURB 950+ | 1 |
| 2.4 | 01900007 0358 | ACOUSTIC, FUEL TANK ROAD 950+ | 1 |
| 2.5 | 01900007 0359 | ACOUSTIC, FUEL TANK BACK 950+ | 1 |
| 2.6 | 01900007 0360 | ACOUSTIC, DEF TANK COVER 950+ | 1 |

8.24 CHASSIS ASSEMBLY

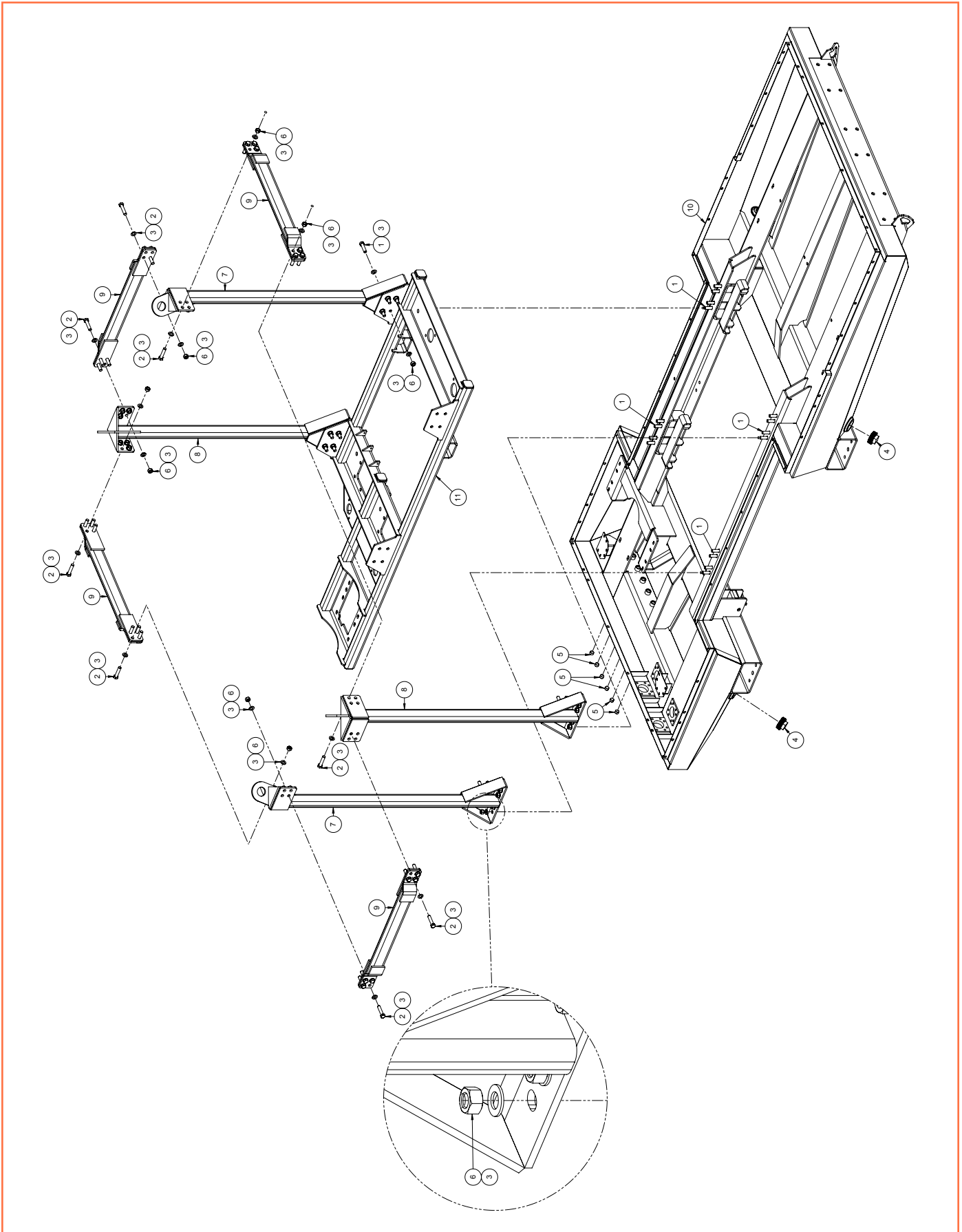


FIGURE 8-42. 00717464 0107 (REV 04)

00717464 0107 CHASSIS ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|------------------------------------|-----|
| 1 | 00900112 0096 | BOLT, HEX 3/4-10 X 3 GR8 | 32 |
| 2 | 00900112 0116 | BOLT, HEX 3/4-10 X 3 1/2 GR8 | 32 |
| 3 | 00900324 0015 | WASHER, FLAT 3/4 SAE STD | 112 |
| 4 | 00901212 0001 | PLUG, PIPE 3.00 NPT ABS PLASTIC | 4 |
| 5 | 00901925 0006 | PLUG, PIPE, 3/4 NPT, SOCKET HD, SS | 6 |
| 6 | 00906953 0012 | NUT, TOPLOCK .750-10 18-8 SST | 64 |
| 7 | 03903009 0068 | LIFTING BAIL, 4-PT LEG A | 2 |
| 8 | 03903009 0069 | LIFTING BAIL, 4-PT LEG B | 2 |
| 9 | 03903009 0070 | LIFTING BAIL, 4-PT ARM | 4 |
| 10 | 03903313 0095 | FRAME, D1300-1800 T4F | 1 |
| 11 | 03903313 0096 | SUBFRAME, D1300-1800 T4F | 1 |

8.25

DOT/TRANS-CANADA LIGHT ASSEMBLY

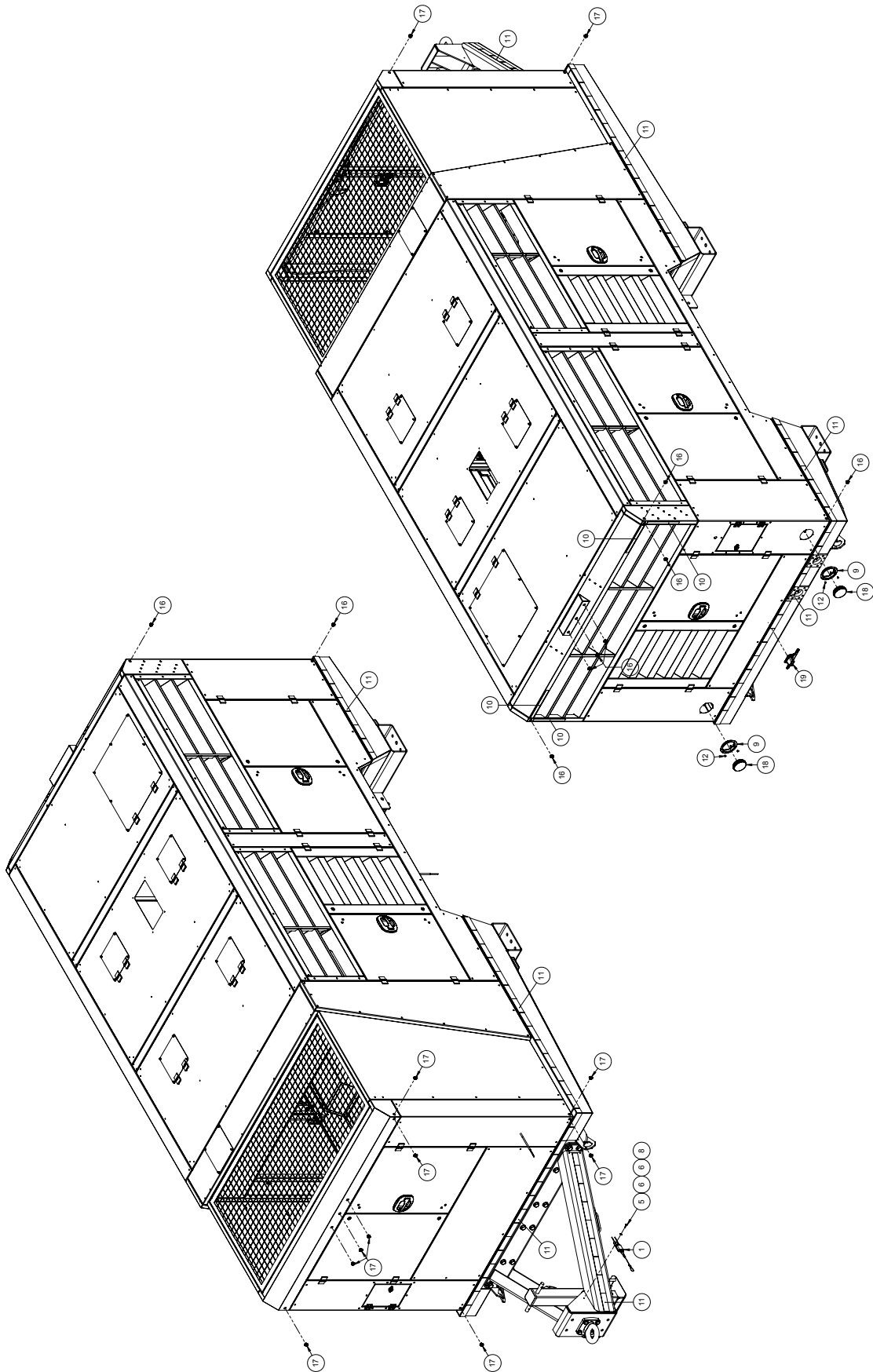


FIGURE 8-43. 00717703 0223 (REV 05)

00717703 0223 DOT/TRANS-CANADA LIGHT ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---|-------|
| 1 | 00600714 1022 | SWITCH, BREAK AWAY | 1 |
| NS | 00601349 0002 | CABLE, 7-CONDUCTOR 12/6-10/1 (NOT SHOWN) | 12 FT |
| NS | 00602110 0006 | TERMINAL, FEMALE 1/4" TAB 14-16 (NOT SHOWN) | 25 |
| NS | 00602110 0007 | TERMINAL, MALE 1/4" TAB 14-16 (NOT SHOWN) | 25 |
| 5 | 00900112 0011 | BOLT, HEX 1/4-20 X 1 GR8 | 1 |
| 6 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 2 |
| 7 | 00901414 0311 | GROMMET, RUBBER .38 ID X .81 OD | 3 |
| 8 | 00906953 0004 | NUT, TOPLOCK 1/4-20 18-8 SST | 1 |
| 9 | 01900696 0013 | FLANGE, SS LIGHT MOUNT 4" RND | 2 |
| 10 | 01901201 0008 | TAPE SILVER REFLECTIVE 1" WIDE | 4 FT |
| 11 | 01901201 0009 | TAPE, RED/WHITE REFLECT 2" WIDE | 46 FT |
| 12 | 01901256 0003 | RIVET, BLIND, 3/16"X.126-.250 SS | 6 |
| NS | 05017669 0003 | CONNECTOR, 7PIN MALE (NOT SHOWN) | 1 |
| 14 | 05017671 0029 | PIGTAIL, STOP/TAIL/TURN, 3-WIRE | 2 |
| 15 | 05018395 0240 | HARNES, LIGHT 950+ | 1 |
| 16 | 05018635 0075 | LAMP, RED, CLEARANCE MARKER 1" | 9 |
| 17 | 05018635 0076 | LAMP, AMB, CLEARANCE MARKER | 11 |
| 18 | 05018635 0077 | LAMP, S T T; 4; RED; 12V | 2 |
| 19 | 05018635 0078 | LAMP, LICENSE PLATE 2 WIRE | 1 |

DOT/TRANS-CANADA LIGHT ASSEMBLY (CONTINUED)

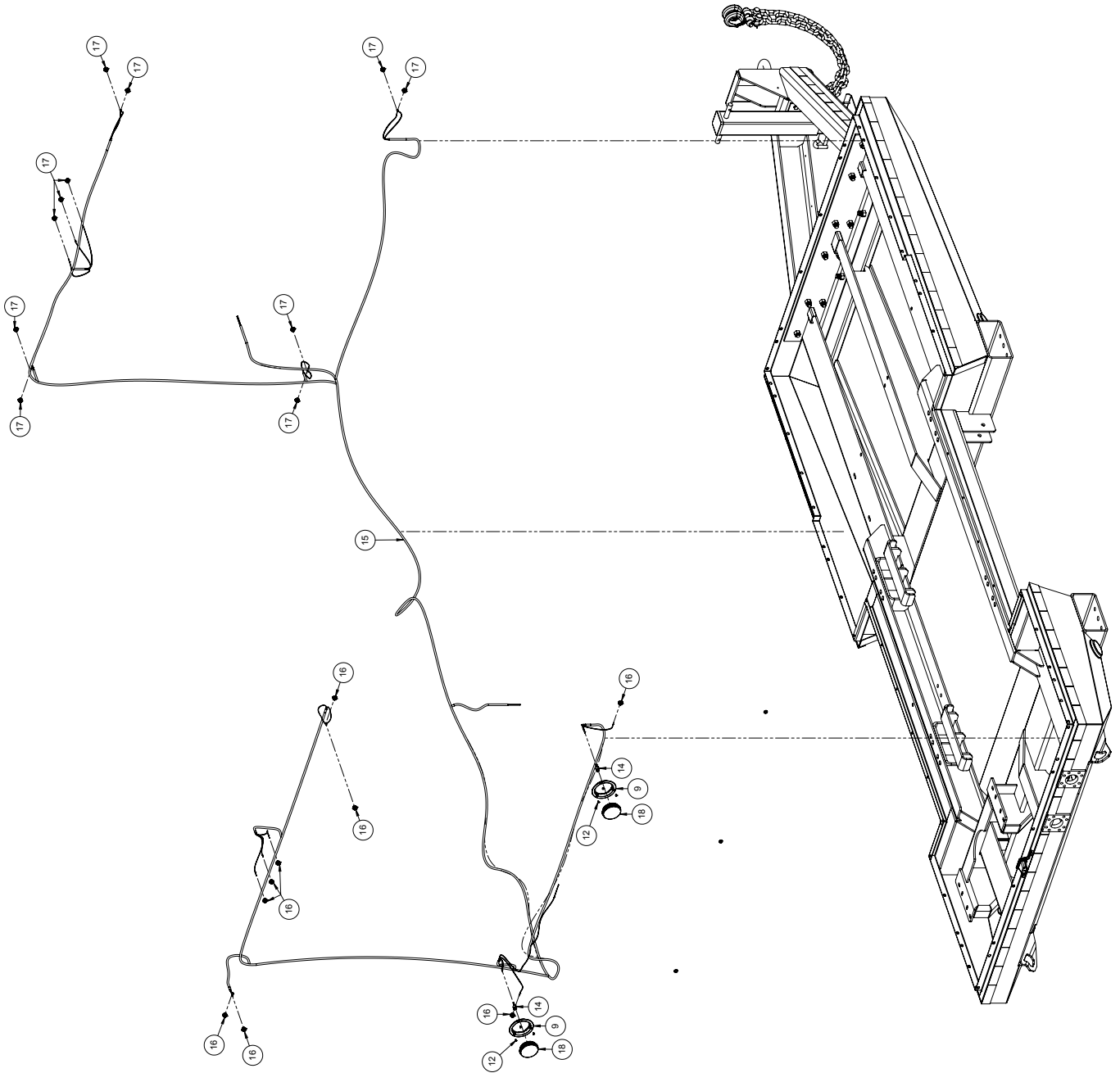


FIGURE 8-44. 00717703 0223 (REV 05)

00717703 0223 DOT/TRANS-CANADA LIGHT ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---|-------|
| 1 | 00600714 1022 | SWITCH, BREAK AWAY | 1 |
| NS | 00601349 0002 | CABLE, 7-CONDUCTOR 12/6-10/1 (NOT SHOWN) | 12 FT |
| NS | 00602110 0006 | TERMINAL, FEMALE 1/4" TAB 14-16 (NOT SHOWN) | 25 |
| NS | 00602110 0007 | TERMINAL, MALE 1/4" TAB 14-16 (NOT SHOWN) | 25 |
| 5 | 00900112 0011 | BOLT, HEX 1/4-20 X 1 GR8 | 1 |
| 6 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 2 |
| 7 | 00901414 0311 | GROMMET, RUBBER .38 ID X .81 OD | 3 |
| 8 | 00906953 0004 | NUT, TOPLOCK 1/4-20 18-8 SST | 1 |
| 9 | 01900696 0013 | FLANGE, SS LIGHT MOUNT 4" RND | 2 |
| 10 | 01901201 0008 | TAPE SILVER REFLECTIVE 1" WIDE | 4 FT |
| 11 | 01901201 0009 | TAPE, RED/WHITE REFLECT 2" WIDE | 46 FT |
| 12 | 01901256 0003 | RIVET, BLIND, 3/16"X.126-.250 SS | 6 |
| NS | 05017669 0003 | CONNECTOR, 7PIN MALE (NOT SHOWN) | 1 |
| 14 | 05017671 0029 | PIGTAIL, STOP/TAIL/TURN, 3-WIRE | 2 |
| 15 | 05018395 0240 | HARNES, LIGHT 950+ | 1 |
| 16 | 05018635 0075 | LAMP, RED, CLEARANCE MARKER 1" | 9 |
| 17 | 05018635 0076 | LAMP, AMB, CLEARANCE MARKER | 11 |
| 18 | 05018635 0077 | LAMP, S T T; 4; RED; 12V | 2 |
| 19 | 05018635 0078 | LAMP, LICENSE PLATE 2 WIRE | 1 |

00717401 0047 AXLE ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|----------------|--------------------------------|-----|
| 1 | 00900025 0056 | SCREW, HEX HD 3/4-10 X 2" S5 | 4 |
| 2 | 00900490 0088 | NUT, NYLOK 3/4-10 | 4 |
| 3 | 00901414 0309 | GROMMET, 0.50 ID X 0.75 OD | 3 |
| 4 | 01900556 0005 | EQUALIZER, SLIPPER 12K L ALKO | 1 |
| 5 | 01900556 0006 | EQUALIZER, SLIPPER 12K R ALKO | 1 |
| 6 | 01900731 0021 | HANGER, SPRING CENTER SLIP 12K | 2 |
| 7 | 01900920 0042 | NUT, EQUALIZER 1" JAM NUT | 2 |
| 8 | 05017120 0406 | AXLE, 12K 8/6.5 SLIP ALKO | 2 |
| 9 | 019000168 0020 | BOLT, EQUALIZER, 1" 12K AXLES | 2 |
| 10 | 019000168 0021 | BOLT, SPRING EYE, 3/4" 12K | 4 |
| 11 | 019000920 0043 | NUT, SPRING EYE, LOCK NUT, 12K | 4 |
| 12 | 00901560 0013 | WASHER, FLAT 3/4" S.S. | 4 |

AXLE ASSEMBLY (CONTINUED)

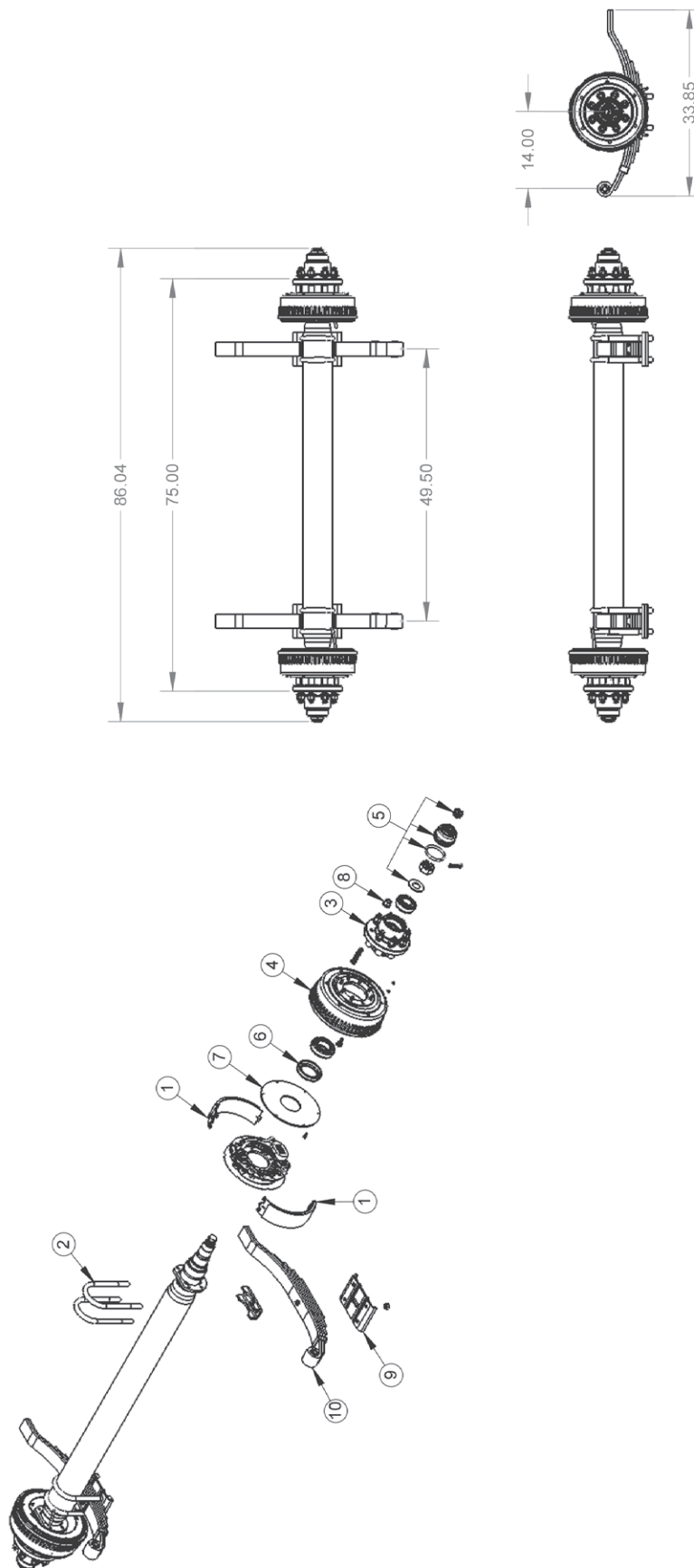


FIGURE 8-46. 05017120 0406 (REV 00)

05017120 0406 AXLE

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|--------------------------------|-----|
| 1 | 00717711 0178 | KIT, BRAKE SHOES, 12K ALKO | 1 |
| 2 | 00909003 0042 | U-BOLT, ALKO 12K AXLE | 1 |
| 3 | 01900848 0031 | HUB, ALKO 12K AXLE 8/6.5 | 1 |
| 4 | 01900848 0032 | DRUM, ALKO 12K AXLE 8/6.5 | 1 |
| 5 | 01900848 0033 | CAP, ALKO 12K AXLE 8/6.5 | 1 |
| 6 | 01900848 0034 | SEAL KIT, ALKO 12K AXLE 8/6.5 | 1 |
| 7 | 01900848 0035 | BRAKE PLT, ALKO 12K AXLE 8/6.5 | 1 |
| 8 | 01900920 0044 | NUT, WHEEL LUG ALKO 12K | 1 |
| 9 | 01901165 0075 | PLATE, ALKO 12K TIE PLATE | 1 |
| 10 | 05019310 0013 | SPRING, AXLE 6250LB | 1 |

8.27

WHEEL AND TIRE ASSEMBLY

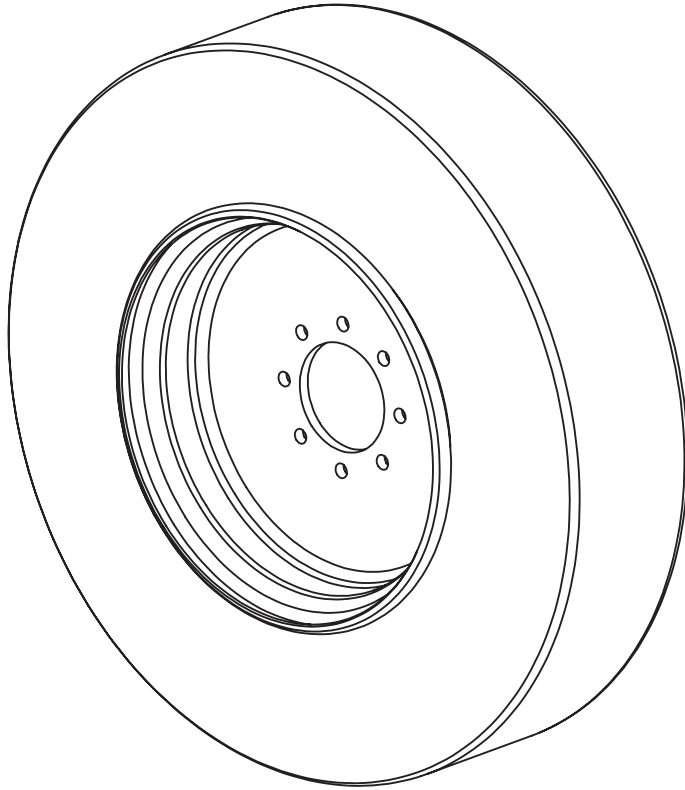


FIGURE 8-47. 05019880 0046 (REV 00)

05019880 0046 WHEEL AND TIRE ASSEMBLY

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---------------------------------|-----|
| 1 | 05019880 0046 | WHEEL & TIRE ASSY, 17.5-8 6000# | 1 |

8.28

DRAWBAR ASSEMBLY

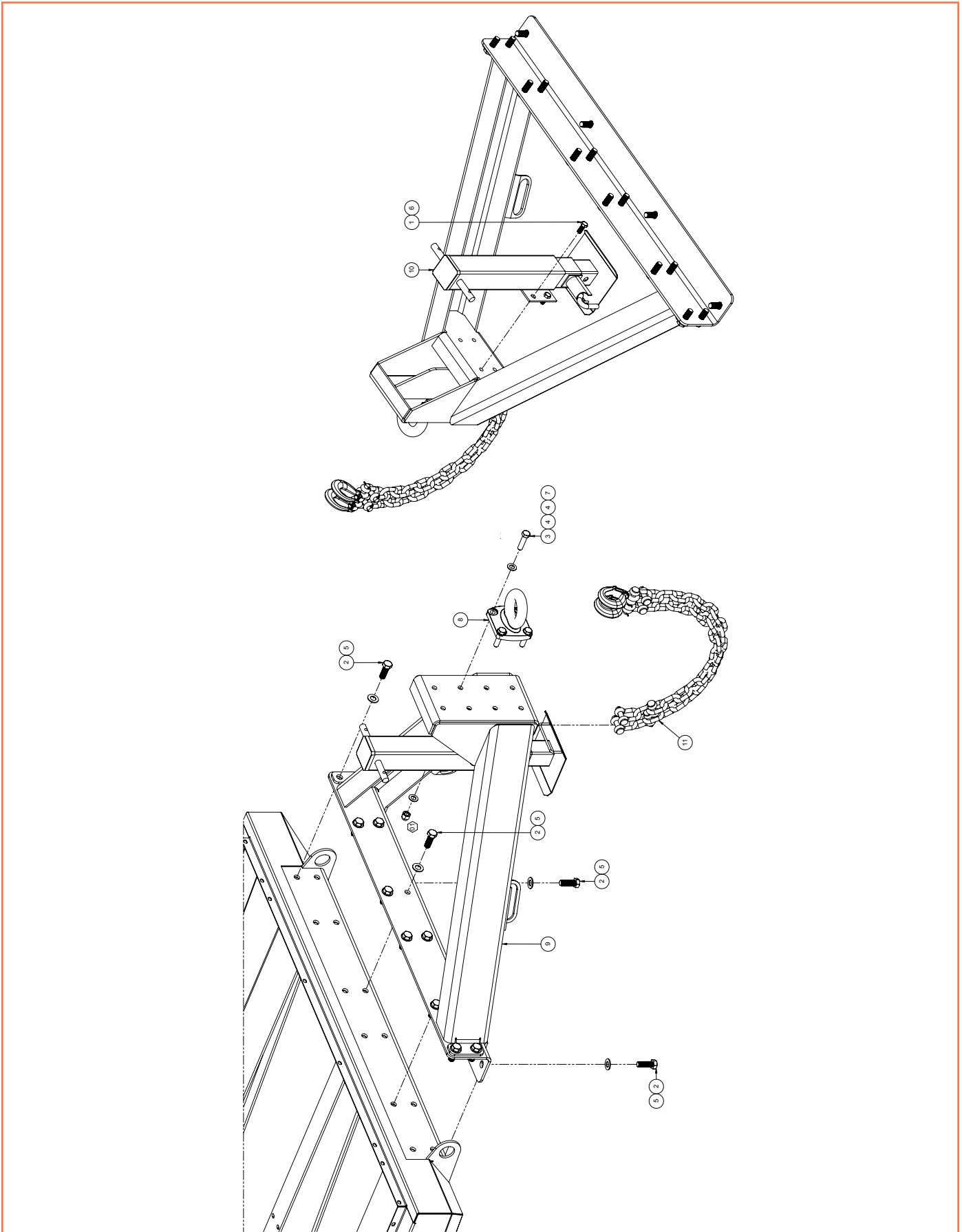


FIGURE 8-48. 00717554 0096 (REV 01)

00717554 0096 DRAWBAR ASSEMBLY

| ITEM | PART NUMBER | DESCR | ION | QTY |
|------|---------------|--------------------------------|-----|-----|
| 1 | 00900112 0035 | BOLT, HEX 5/8-11 X 1 1/2 GR8 | | 4 |
| 2 | 00900112 0077 | BOLT, HEX 7/8-9 X 2 1/2 GR8 | | 16 |
| 3 | 00900112 0096 | BOLT, HEX 3/4-10 X 3 GR8 | | 4 |
| 4 | 00900324 0015 | WASHER, FLAT 3/4 SAE STD | | 8 |
| 5 | 00900324 0016 | WASHER, FLAT 7/8 SAE STD | | 16 |
| 6 | 00906953 0010 | NUT, TOPLOCK .625-11 18-8 SST | | 4 |
| 7 | 00906953 0012 | NUT, TOPLOCK .750-10 18-8 SST | | 4 |
| 8 | 01900896 0002 | LUNETTE EYE, 3ID 4BOLT FLANGE | | 1 |
| 9 | 03903136 0180 | DRAWBAR, NEW LARGE PORTABLE | | 1 |
| 10 | 03903263 0013 | JACK, SUB ASSY / D750-D900 | | 1 |
| 11 | 05017495 0022 | SAFTEY CHAIN ASSEMBLY, 5/8 GAL | | 2 |

8.29 [OPTION] AFTERCOOLER ASSEMBLY

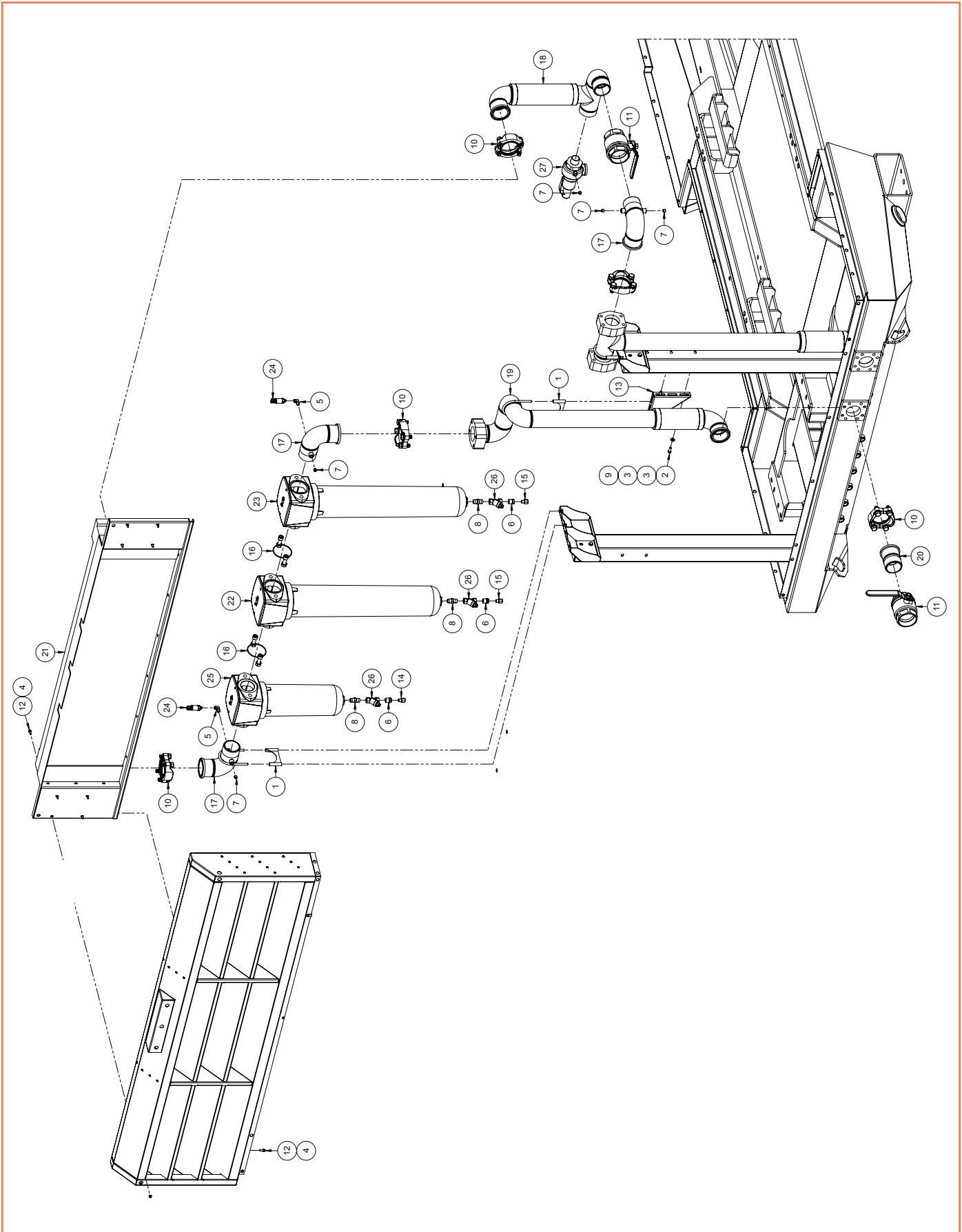


FIGURE 8-49. 00717533 0004 (REV 04)

00717533 0004 AFTERCOOLER ASSEMBLY OPTION

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|-------------------------------------|-----|
| 1 | 00519470 0014 | CLAMP, EXHAUST 3-1/2 | 2 |
| 2 | 00900112 0013 | BOLT,HEX 3/8-16 X 1 GR8 | 2 |
| 3 | 00900324 0009 | WASHER,FLAT 3/8 SAE STD | 4 |
| 4 | 00900490 0130 | NUT, NYLOK .250--20 STAINLESS STEEL | 15 |
| 5 | 00901056 0042 | ELBOW, 1/4 M X 1/8 F 90° 5000# SS | 2 |
| 6 | 00901154 0005 | BUSHING,NPT 1/2 X 1/4 3000# SS | 3 |
| 7 | 00901925 0002 | PLUG, PIPE, 1/4 NPT, SOCKET HD, SS | 5 |
| 8 | 00906060 0008 | NIPPLE, HEX .50 NPT SST 7200# | 3 |
| 9 | 00906953 0006 | NUT, TOPLOCK 3/8-16 18--8 SST | 2 |
| 10 | 00909753 0048 | KIT, SPLIT FLANGE CODE 61 3.00 | 4 |
| 11 | 00915785 0048 | VALVE, BALL 3 FNPT 600# | 2 |
| 12 | 01900060 0001 | BOLT,HEX FLANGE 1/4--20X3/4 SS | 15 |
| 13 | 01900216 0619 | BRACKET, AIR FILTER MOUNT | 1 |
| 14 | 01900930 0029 | ORIFICE, .078 .25 M/F SSTL | 1 |
| 15 | 01900930 0034 | ORIFICE, .047 ID 1/4 M/FPT | 2 |
| 16 | 01901240 0081 | FIXING KIT, NANO 1500 FILTERS | 2 |
| 17 | 03903344 0084 | PIPE ASY,AFTRCLR TO FILTERS | 3 |
| 18 | 03903344 0087 | PIPE ASY,VALVE TO AFTERCOOLER | 1 |
| 19 | 03903344 0127 | PIPE ASY, 3.00 AFTRCLR DISCH | 1 |
| 20 | 03903344 0128 | PIPE ASY, 3.00 DISCHARGE AIR | 1 |
| 21 | 05017022 0009 | AFTERCOOLER, 1600 REDESIGN | 1 |
| 22 | 05018125 0013 | FILTER, AIR 1 MICRON 3.00 NPT | 1 |
| 23 | 05018125 0014 | FILTER, AIR .01 MICRON 3.00 NPT | 1 |
| 24 | 05019205 0010 | SENDER, PRESSURE 0-500PSI | 2 |
| 25 | 05019222 0021 | SEPARATOR, MOISTURE 3.00 NPT | 1 |
| 26 | 05019347 0006 | STRAINER,Y .5NPT SST 800 PSI | 3 |
| 27 | 05019601 0003 | VALVE,RELIEF 1 1/4" 200# | 1 |

8.30

[OPTION] CONDENSATE KIT

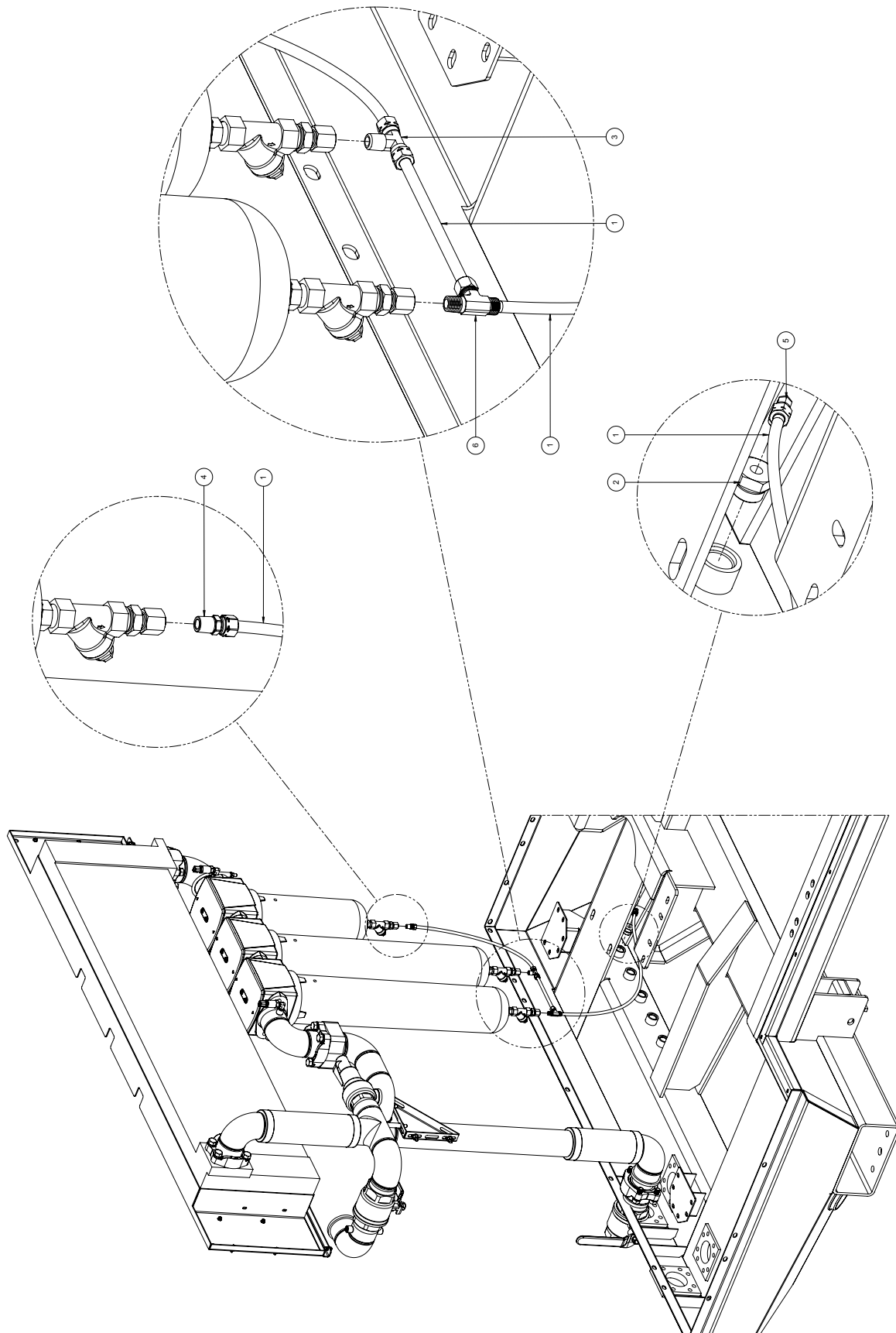


FIGURE 8-50. 00717700 0348 (REV 01)

00717700 0348 CONDENSATE KIT OPTION

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|--|------|
| 1 | 00910084 | TUBING, NYLON 3/8 BLACK LOW | 5 FT |
| 2 | 00910624 1204 | ADAPTER, 1 1/16-12 O X 1/4NPT SS | 1 |
| 3 | 00915534 0064 | TEE, .375 TUBE X .250 MNPT MALE BRANCH BRASS | 1 |
| 4 | 00915543 0064 | CONNECTOR .375 TUBE X .250 MNPT | 1 |
| 5 | 00915557 0064 | ELBOW, .38 TUBE X .25 MNPT BRASS | 1 |
| 6 | 00915564 0064 | TEE, MALE RUN 1/4 MNPT X 3/8 TUBE BRASS | 1 |

8.31

[OPTION] FAN KIT ASSEMBLY

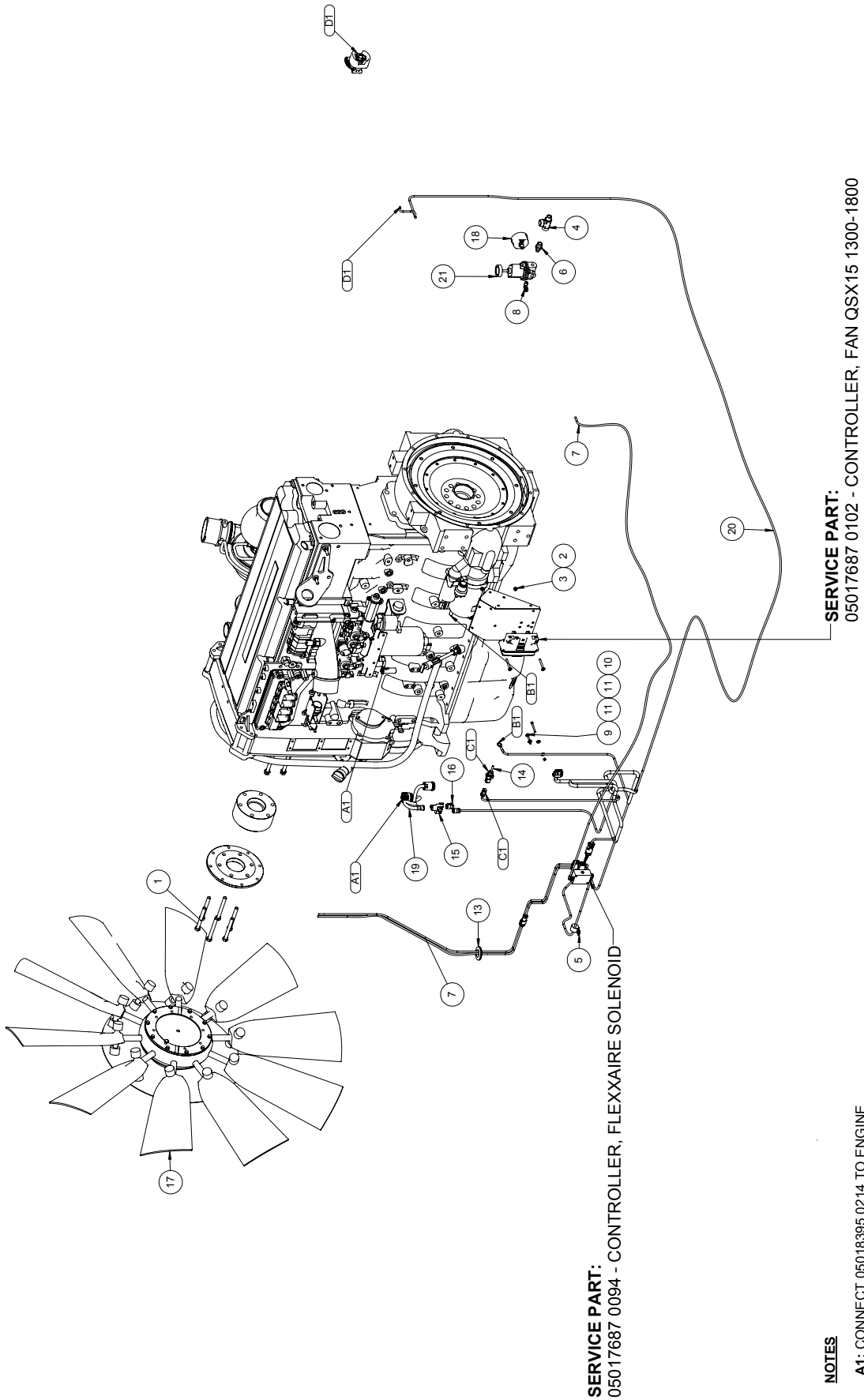


FIGURE 8-51. 00717700 0316 (REV 03)

00717700 0316 FAN KIT ASSEMBLY OPTION

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---|------|
| 1 | 00900016 0154 | BOLT,HEX 1/2-13 X 4 1/2 GR8 | 6 |
| 2 | 00900389 0030 | BOLT, TPHMS .25-20 X 2.25 SS | 2 |
| 3 | 00900490 0071 | NUT, NYLOC .250-20 ZINC PLATED | 2 |
| 4 | 00901100 0003 | TEE, MXFXF .5NPT 5000# | 1 |
| 5 | 00902905 0006 | CLAMP, SUPPORT .94 ID | 1 |
| 6 | 00906060 0125 | NIPPLE, PIPE HEX .500 X .250 SS | 1 |
| 7 | 00910082 | TUBING, NYLON 1/4" BLACK | 18FT |
| 8 | 00915557 0444 | ELBOW, 1/4" TUBE X 1/4" MNPT | 1 |
| 9 | 00925025 0724 | BOLT,M5-0.8 X 50MM GR 10.9 | 2 |
| 10 | 00925071 0050 | NUT,METRIC M5 - .80 | 2 |
| 11 | 00925161 0050 | WASHER, FLAT, M5 | 4 |
| NS | 01900464 0417 | DECAL, FAN PURGE (NOT SHOWN) | 1 |
| 13 | 01900696 0012 | GROMMET, 1.25 ID X 1.75 OD X .094 PANEL THK | 1 |
| 14 | 01901174 0013 | PROBE, -50°C - 150°C - 1K OHM | 1 |
| 15 | 05017669 0020 | CONNECTOR,3 PIN,FEMALE TEE DEU | 1 |
| 16 | 05017671 0024 | CONNECTOR, MALE 3 PIN RESISTOR | 1 |
| 17 | 05018080 0060 | FAN, BLOWER 56" FLEXXAIRE CU | 1 |
| 18 | 05018330 0015 | GAGE,0-160 PSI LIQUID FILLED | 1 |
| 19 | 05018395 0214 | HARNESS, FLEX FAN CU 8.3 EXTEN | 1 |
| 20 | 05018395 0252 | HARNESS, FLEXXAIRE FAN | 1 |
| 21 | 05019760 0007 | REGULATOR, PRESSURE 2-150# 500PSI MAWP | 1 |

For Wiring Diagram see page 21.

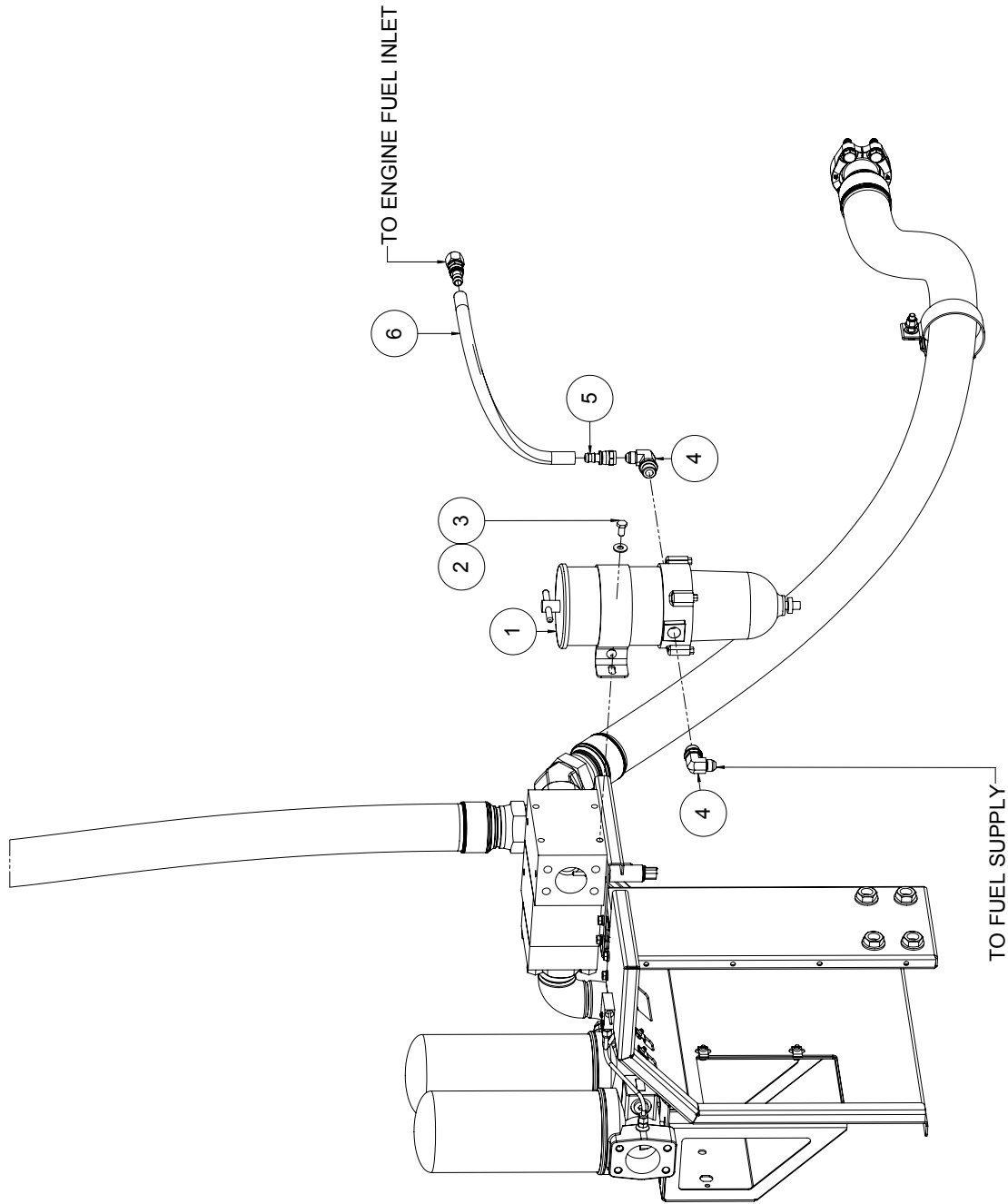


FIGURE 8-52. 00717700 0325 (REV 00)

00717700 0325 FUEL/WATER SEPARATOR OPTION

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|-----------------------------------|------|
| 1 | 05018155 0018 | RACOR FILTER 900FH-30 | 1 |
| 2 | 00900321 0003 | WASHER, FLAT .31 ZN PLT | 2 |
| 3 | 00900115 0003 | BOLT, .3750-16 X .750 HEX HD GR 5 | 2 |
| 4 | 00904020 0091 | FITTING, 7/8MORB X 1/2M JIC ELB | 2 |
| 5 | 38007-010 | HOSE END 1/2H BARB X 1/2 FJIC | 1 |
| 6 | 00906814 0008 | HOSE, 1/2" ID 300 PSI | 2 FT |

8.33

[OPTION] HEATER CONTROL KIT

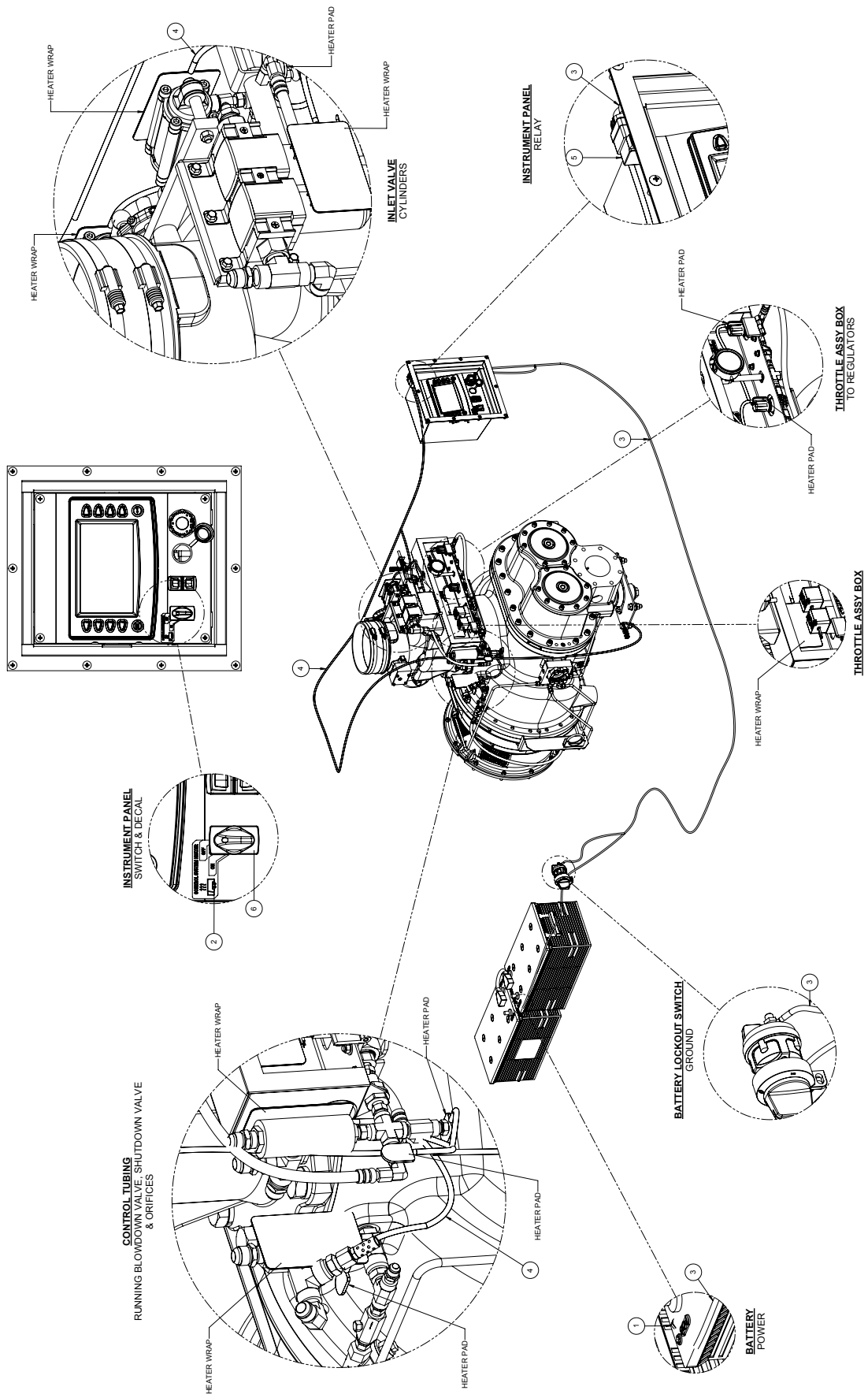


FIGURE 8-53. 00717700 0340 (REV 01)

00717700 0340 HEATER CONTROL KIT OPTION

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|-------------------------------|-----|
| 1 | 00900201 0003 | NUT, HEX JAM 5/16-18 | 1 |
| 2 | 01900464 0510 | DECAL, CONTROL SYSTEM HEATER | 1 |
| 3 | 05018395 0265 | HARNES, POWER 750+ | 1 |
| 4 | 05018395 0268 | HARNES, CTRL SYS HEATERS 950+ | 1 |
| 5 | 05019085 0021 | RELAY SPDT 5-PIN | 1 |
| 6 | 05019430 0074 | SWITCH, 3-WAY R/A/G 24V | 1 |

For Wiring Diagram see page 23.

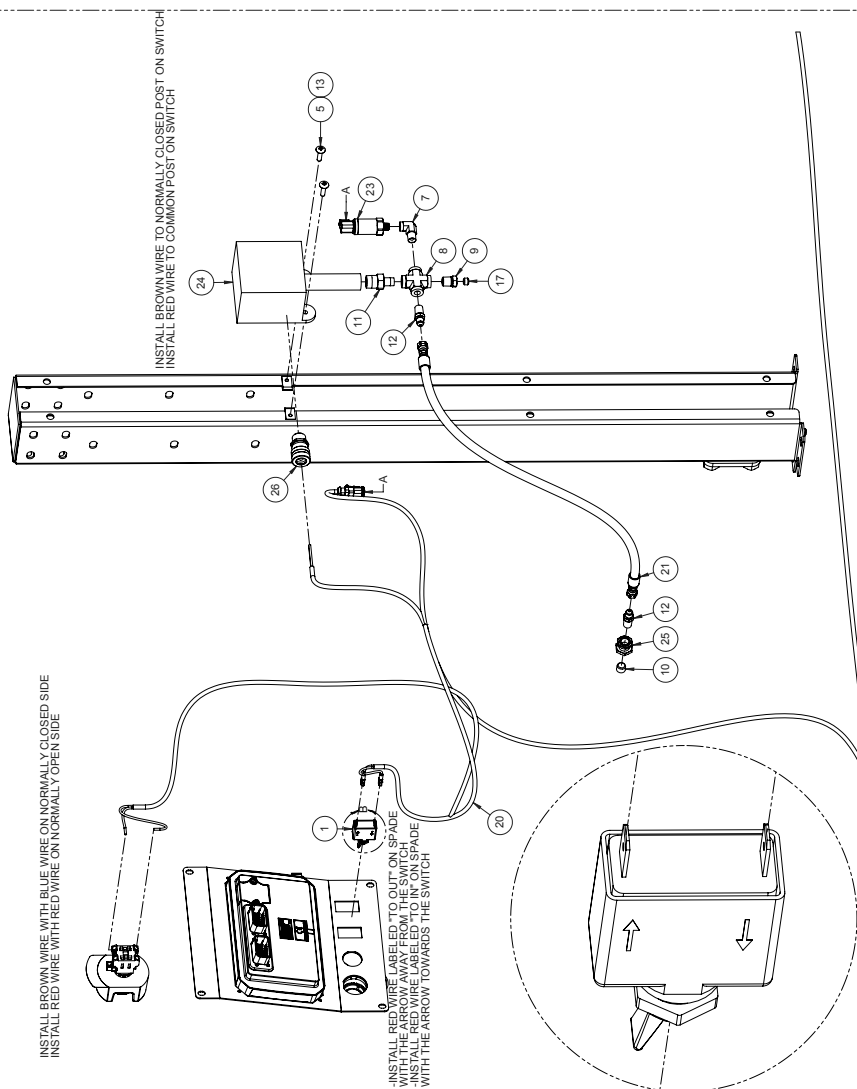
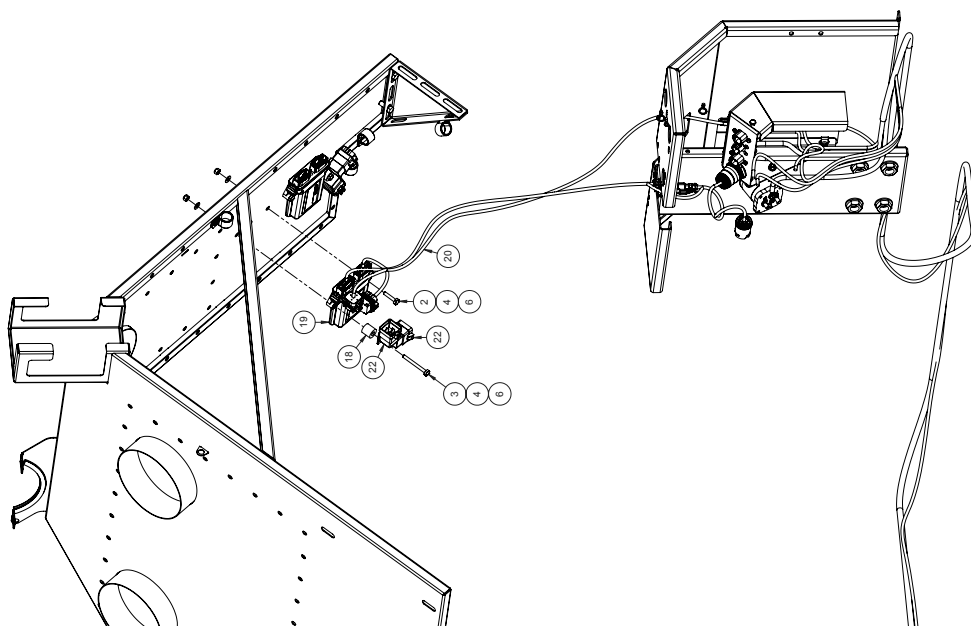


FIGURE 8-54. 00717700 0338 (REV 03)

00717700 0338 AUTO START-STOP KIT OPTION

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---------------------------------------|-----|
| 1 | 00602114 0028 | SWITCH, CIRCUIT BREAKER 10AMP | 1 |
| 2 | 00900112 0021 | BOLT, HEX .250-20 X 1.250 GR8 | 1 |
| 3 | 00900112 0071 | BOLT, HEX .250-20 X 2.500 GR8 | 1 |
| 4 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 2 |
| 5 | 00900391 0013 | BOLT, TPHMS 1/4-20 X 1.00 SS W NYL | 2 |
| 6 | 00900490 0071 | NUT, NYLOC .250-20 ZINC PLATED | 2 |
| 7 | 00901056 0042 | ELBOW, 1/4 M X 1/8 F 90° 5000# SS | 1 |
| 8 | 00901104 0002 | CROSS, .25 NPT 5000# SS | 1 |
| 9 | 00901154 0001 | BUSHING, NPT 1/4 X 1/8 3000# SS | 1 |
| 10 | 00901925 0002 | PLUG, PIPE, 1/4 NPT, SOCKET HD, SS | 1 |
| 11 | 00906060 0125 | NIPPLE, PIPE HEX .500 X .250 SS | 1 |
| 12 | 00907235 0044 | ADAPTER, 1/4 NPT X 1/4 JIC 6000# SS | 2 |
| 13 | 00909088 0010 | NUT, SPEED 1/4-20 U-TYPE | 2 |
| 14 | 01900464 0530 | DECAL, AUTO START SWITCH ON/OFF | 1 |
| 15 | 01900464 0531 | DECAL, AUTO START SIGNAL PORT | 1 |
| 16 | 01900464 0532 | DECAL, T-HANDLE LATCH WARNING | 6 |
| 17 | 01900930 0013 | ORIFICE, .031 X 1/8" MNPT BRASS | 1 |
| 18 | 01901416 0123 | SPACER, 3/4" OD X 3/8" ID X 7/8" TALL | 1 |
| 19 | 05017687 0098 | CONTROLLER, XM500 | 1 |
| 20 | 05018395 0274 | HARNESS, AUTO START 750+ | 1 |
| 21 | 05018485 0472 | HOSE ASSY, 1/4 JIC REC TANK XH | 1 |
| 22 | 05019085 0021 | RELAY SPDT 5-PIN | 2 |
| 23 | 05019205 0010 | SENDER, PRESSURE 0-500 PSI | 1 |
| 24 | 05019430 0081 | SWITCH, PRESSURE 0-500 NEMA4 | 1 |
| 25 | 92141-0025S | BULKHEAD, 1/4" FNPT 5TSTL | 1 |
| 26 | 95795-0828 | GRIP, CORD STR 1/2 | 1 |

For Wiring Diagram see page 25.

[OPTION] AUTO START-STOP KIT (CONTINUED)

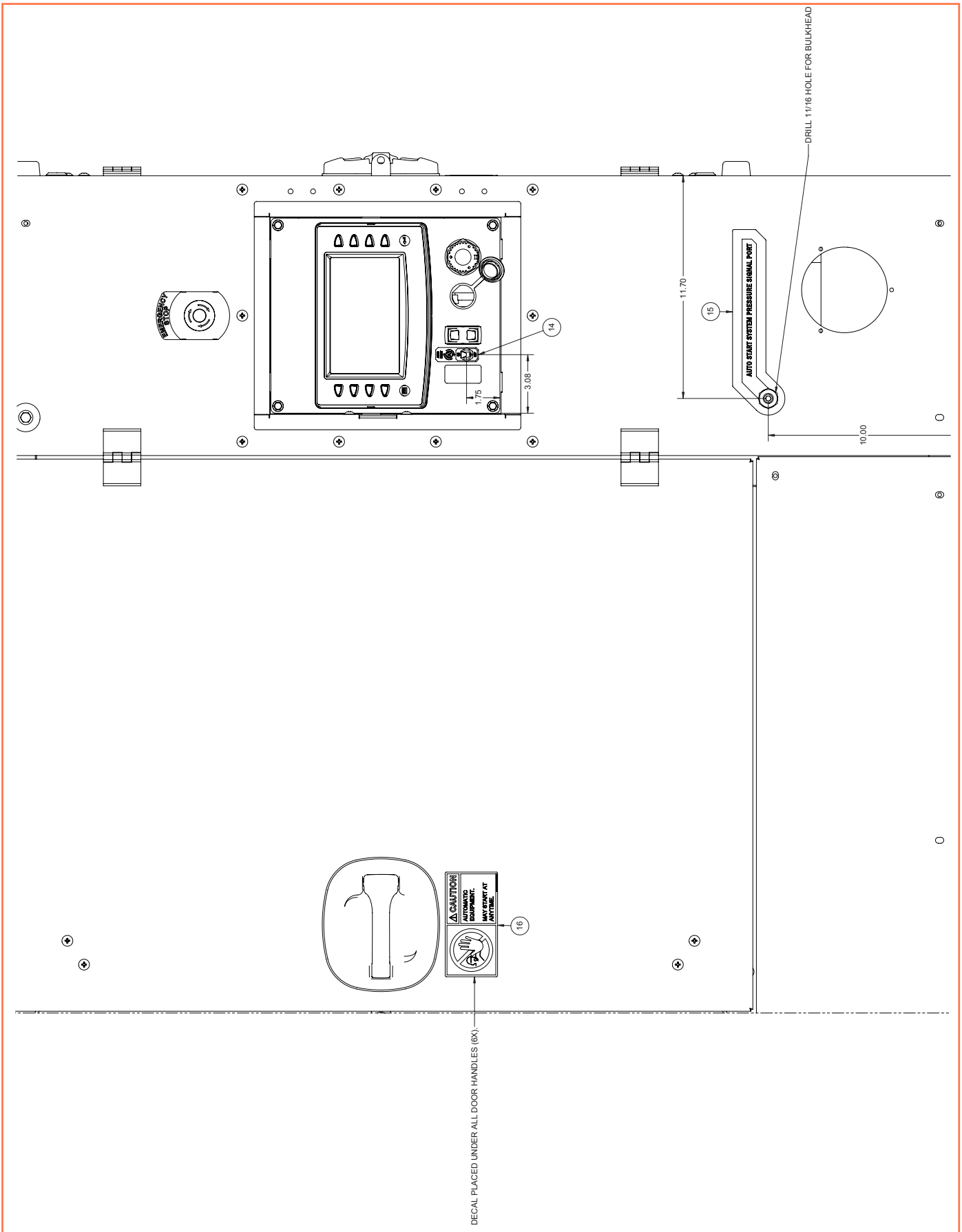


FIGURE 8-55. 00717700 0338 (REV 03)

00717700 0338 AUTO START-STOP KIT OPTION

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---------------------------------------|-----|
| 1 | 00602114 0028 | SWITCH, CIRCUIT BREAKER 10AMP | 1 |
| 2 | 00900112 0021 | BOLT, HEX .250-20 X 1.250 GR8 | 1 |
| 3 | 00900112 0071 | BOLT, HEX .250-20 X 2.500 GR8 | 1 |
| 4 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 2 |
| 5 | 00900391 0013 | BOLT, TPHMS 1/4-20 X 1.00 SS W NYL | 2 |
| 6 | 00900490 0071 | NUT, NYLOC .250-20 ZINC PLATED | 2 |
| 7 | 00901056 0042 | ELBOW, 1/4 M X 1/8 F 90° 5000# SS | 1 |
| 8 | 00901104 0002 | CROSS, .25 NPT 5000# SS | 1 |
| 9 | 00901154 0001 | BUSHING, NPT 1/4 X 1/8 3000# SS | 1 |
| 10 | 00901925 0002 | PLUG, PIPE, 1/4 NPT, SOCKET HD, SS | 1 |
| 11 | 00906060 0125 | NIPPLE, PIPE HEX .500 X .250 SS | 1 |
| 12 | 00907235 0044 | ADAPTER, 1/4 NPT X 1/4 JIC 6000# SS | 2 |
| 13 | 00909088 0010 | NUT, SPEED 1/4-20 U-TYPE | 2 |
| 14 | 01900464 0530 | DECAL, AUTO START SWITCH ON/OFF | 1 |
| 15 | 01900464 0531 | DECAL, AUTO START SIGNAL PORT | 1 |
| 16 | 01900464 0532 | DECAL, T-HANDLE LATCH WARNING | 6 |
| 17 | 01900930 0013 | ORIFICE, .031 X 1/8" MNPT BRASS | 1 |
| 18 | 01901416 0123 | SPACER, 3/4" OD X 3/8" ID X 7/8" TALL | 1 |
| 19 | 05017687 0098 | CONTROLLER, XM500 | 1 |
| 20 | 05018395 0274 | HARNESS, AUTO START 750+ | 1 |
| 21 | 05018485 0472 | HOSE ASSY, 1/4 JIC REC TANK XH | 1 |
| 22 | 05019085 0021 | RELAY SPDT 5-PIN | 2 |
| 23 | 05019205 0010 | SENDER, PRESSURE 0-500 PSI | 1 |
| 24 | 05019430 0081 | SWITCH, PRESSURE 0-500 NEMA4 | 1 |
| 25 | 92141-0025S | BULKHEAD, 1/4" FNPT 5TSTL | 1 |
| 26 | 95795-0828 | GRIP, CORD STR 1/2 | 1 |

For Wiring Diagram see page 25.

[OPTION] AUTO START-STOP KIT (CONTINUED)

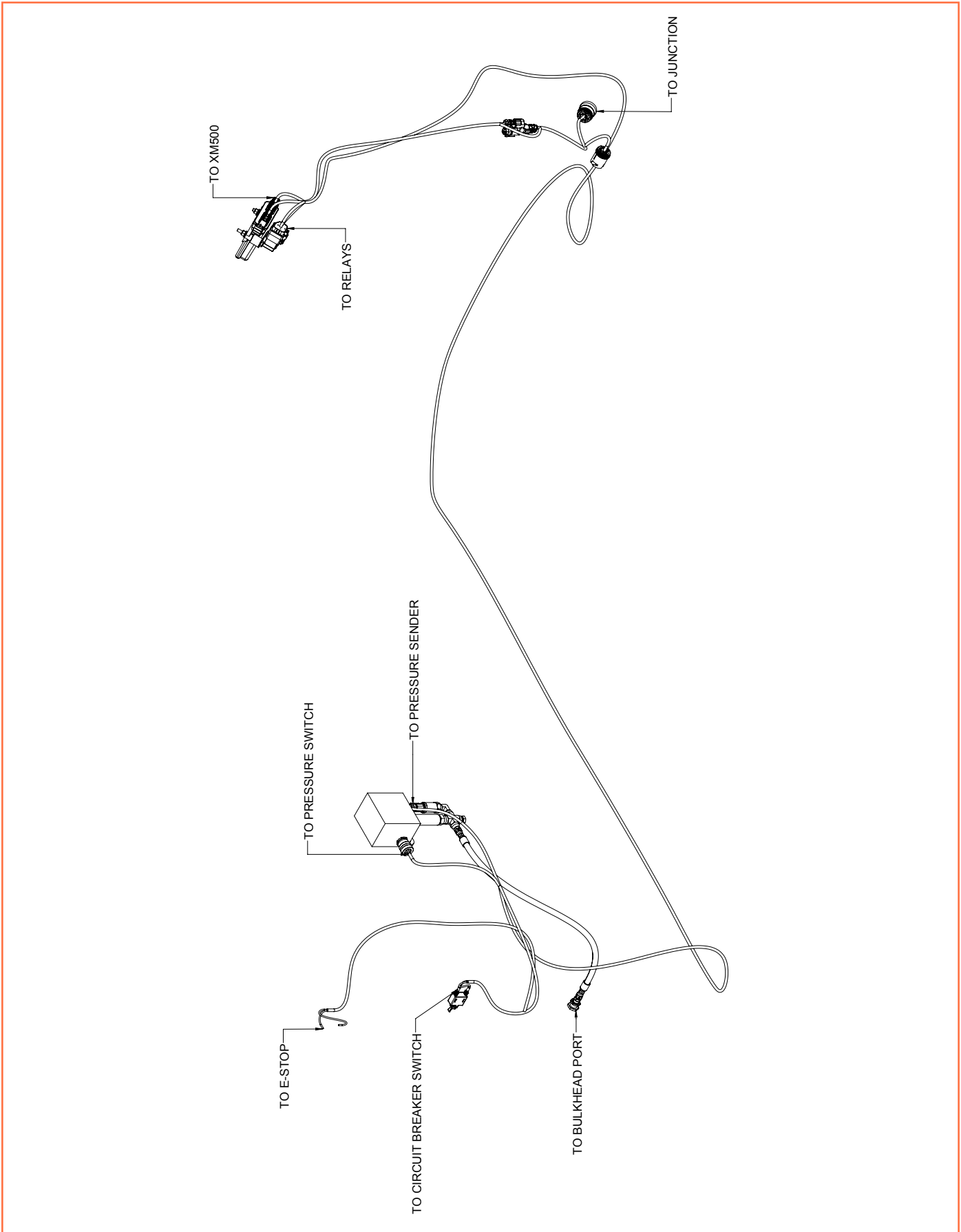
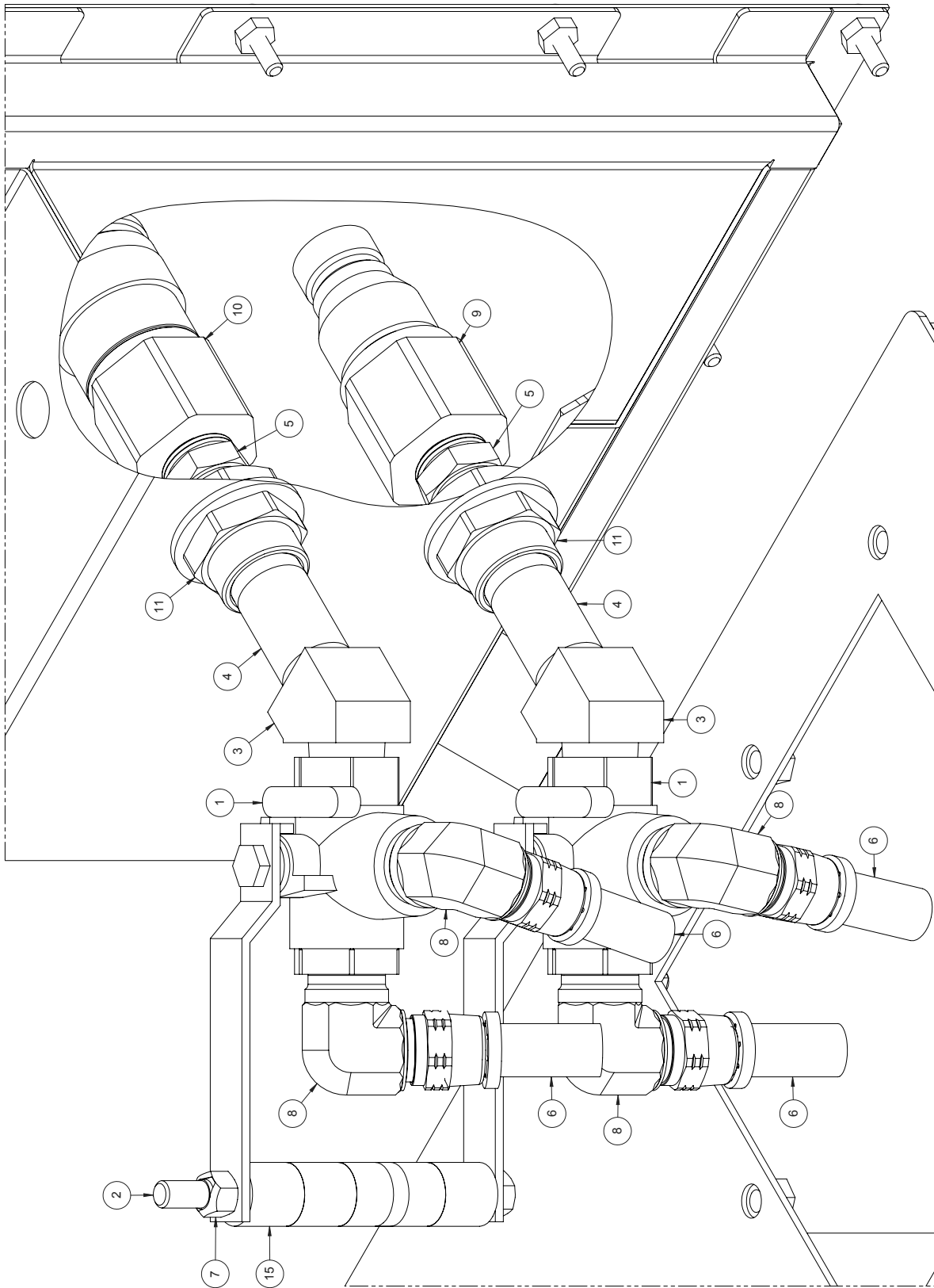


FIGURE 8-56. 00717700 0338 (REV 03)

8.35 [OPTION] REMOTE FUEL FILL KIT



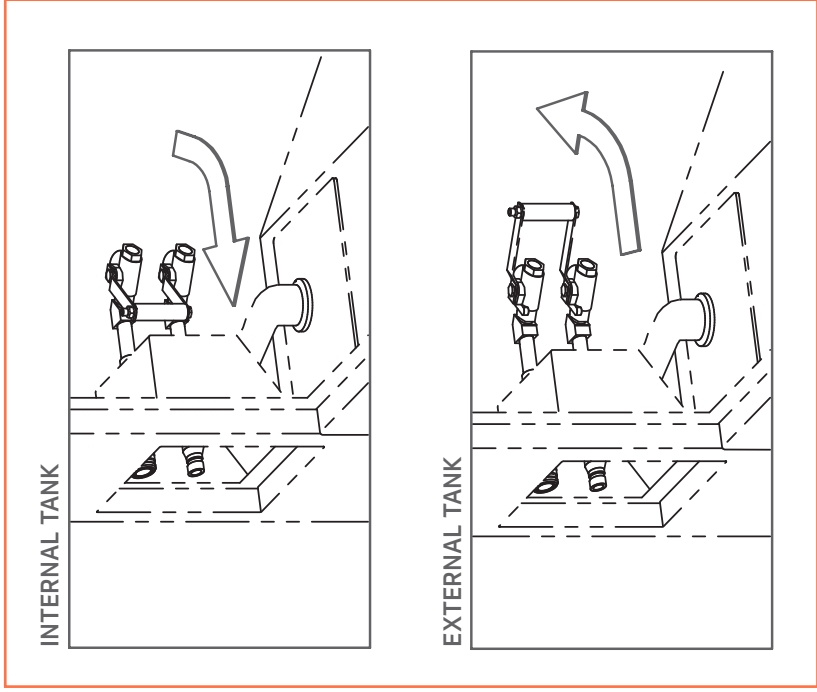
NOTE: KIT INCLUDES A SET OF COUPLINGS FOR CUSTOMER CONNECTION

FIGURE 8-57. 00717700 0333 (REV 01)

00717700 0333 REMOTE FUEL FILL KIT OPTION

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|--|-----|
| 1 | 00519475 0007 | VALVE, 3-WAY 3/4NPT | 2 |
| 2 | 00900112 0193 | BOLT, HEX 3/8-16 X 5.5 GR8 | 1 |
| 3 | 00901058 0012 | ELB, 45 DEG STEEL .750 MNPT X FNPT | 2 |
| 4 | 00901177 0095 | NIPPLE, PIPE .750 X 3.00 SCH80 | 2 |
| 5 | 00906058 0012 | NIPPLE, HEX .75 ZINC PLT | 2 |
| 6 | 00906833 0010 | FITTING, HOSE, 5/8 X 7/8-14JIC | 4 |
| 7 | 00906953 0006 | NUT, TOPLOCK 3/8-16 18-8 SST | 1 |
| 8 | 00907254 1012 | ELBOW, 3/4" NPT X 10 JIC | 4 |
| 9 | 00908350 0001 | NIPPLE, QUICK DISCONNECT 3/4" FLUSH FACE | 1 |
| 10 | 00908351 0001 | COUPLING, QUICK DISCONNECT 3/4" FLUSH FACE | 1 |
| 11 | 00912141 0006 | ADAPTER, BULKHEAD 3/4 NPT | 2 |
| 12 | 01900464 0501 | DECAL, REMOTE FUEL FILL 950+ | 1 |
| 13 | 01900464 0502 | DECAL, REMOTE FUEL FILL SUPPLY | 1 |
| 14 | 01900464 0503 | DECAL, REMOTE FUEL FILL RETURN | 1 |
| 15 | 01901416 0123 | SPACER, 3/4" OD X 3/8" ID X 7/8" TALL | 5 |
| N5 | 00906814 0017 | HOSE, 5/8" ID 250 PSI GRNB7 (NOT SHOWN) | 10 |
| N5 | 00908353 0001 | CAP, DUST 3/4" FOR MALE (NOT SHOWN) | 1 |
| N5 | 00908354 0001 | CAP, DUST 3/4" FOR FEMALE (NOT SHOWN) | 1 |

FUEL TANK SYSTEM



NOTE: Handles must be in either FULL forward or FULL backward position, depending on application.

[OPTION] REMOTE FUEL FILL KIT (CONTINUED)

DECALS

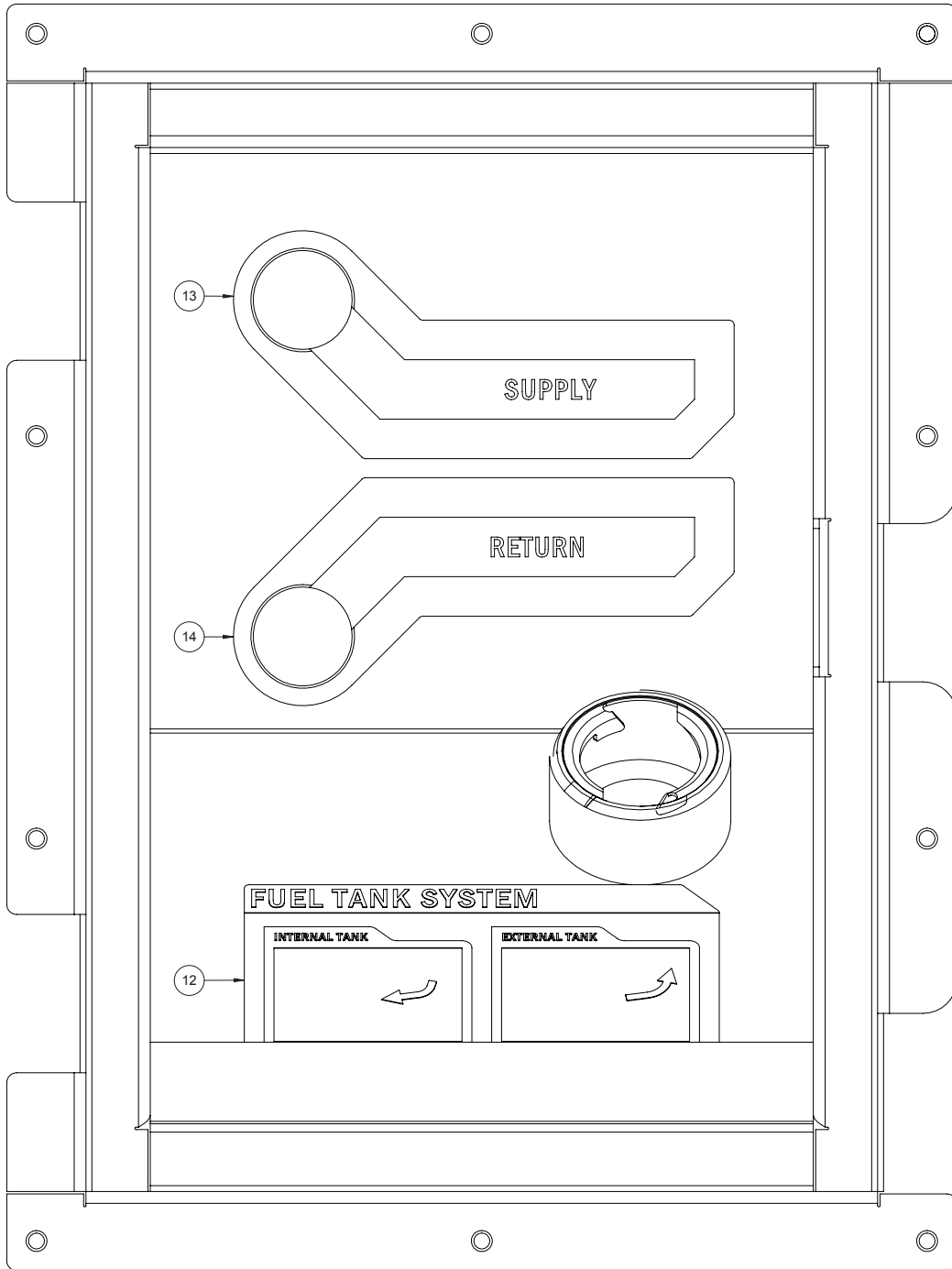


FIGURE 8-58. 00717700 0333 (REV 01)

00717700 0333 REMOTE FUEL FILL KIT OPTION

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|--|-----|
| 1 | 00519475 0007 | VALVE, 3-WAY 3/4NPT | 2 |
| 2 | 00900112 0193 | BOLT, HEX 3/8-16 X 5.5 GR8 | 1 |
| 3 | 00901058 0012 | ELB, 45 DEG STEEL .750 MNPT X FNPT | 2 |
| 4 | 00901177 0095 | NIPPLE,PIPE .750 X 3.00 SCH80 | 2 |
| 5 | 00906058 0012 | NIPPLE, HEX .75 ZINC PLT | 2 |
| 6 | 00906833 0010 | FITTING, HOSE, 5/8 X 7/8-14JIC | 4 |
| 7 | 00906953 0006 | NUT, TOPLOCK 3/8-16 18-8 SST | 1 |
| 8 | 00907254 1012 | ELBOW, 3/4" NPT X 10 JIC | 4 |
| 9 | 00908350 0001 | NIPPLE, QUICK DISCONNECT 3/4" FLUSH FACE | 1 |
| 10 | 00908351 0001 | COUPLING, QUICK DISCONNECT 3/4" FLUSH FACE | 1 |
| 11 | 00912141 0006 | ADAPTER, BULKHEAD 3/4 NPT | 2 |
| 12 | 01900464 0501 | DECAL, REMOTE FUEL FILL 950+ | 1 |
| 13 | 01900464 0502 | DECAL, REMOTE FUEL FILL SUPPLY | 1 |
| 14 | 01900464 0503 | DECAL, REMOTE FUEL FILL RETURN | 1 |
| 15 | 01901416 0123 | SPACER, 3/4" OD X 3/8" ID X 7/8" TALL | 5 |
| NS | 00906814 0017 | HOSE, 5/8" ID 250 PSI GRNB7 (NOT SHOWN) | 10 |
| NS | 00908353 0001 | CAP,DUST 3/4" FOR MALE (NOT SHOWN) | 1 |
| NS | 00908354 0001 | CAP,DUST 3/4" FOR FEMALE (NOT SHOWN) | 1 |

[OPTION] REMOTE FUEL FILL KIT (CONTINUED)

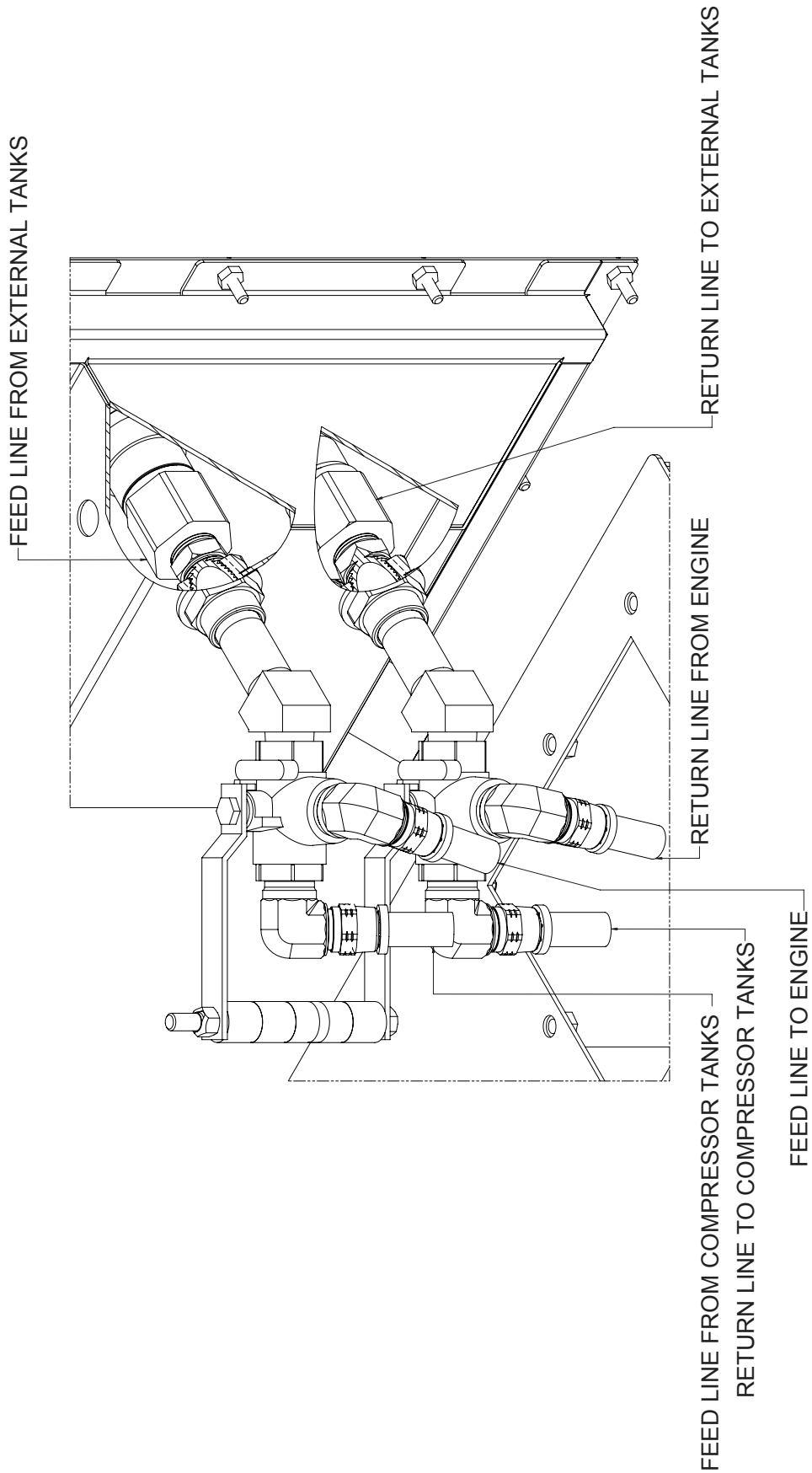


FIGURE 8-59. 00717700 0333 (REV 01)

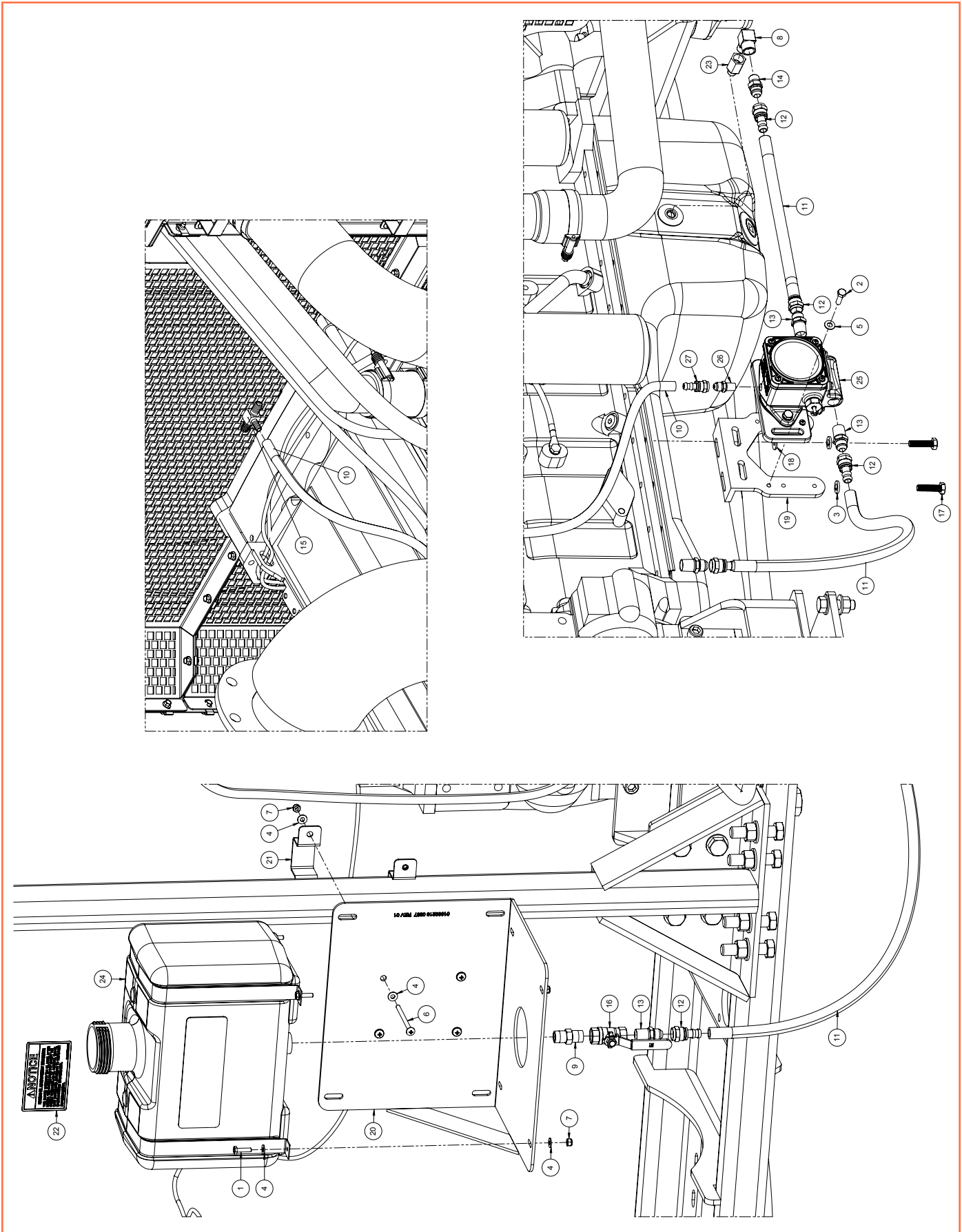
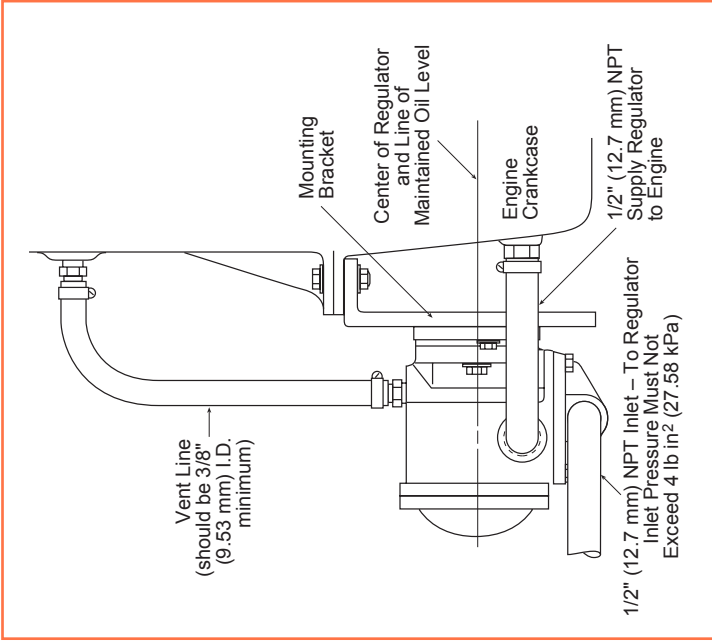


FIGURE 8-60. 00717700 0335 (REV 01)

00717700 0335 OIL LEVEL REGULATOR KIT OPTION

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|---------------------------------------|-------|
| 1 | 00900112 0011 | BOLT, HEX 1/4-20 X 1 GR8 | 4 |
| 2 | 00900112 0012 | BOLT, HEX 5/16-18 X 1 GR8 | 2 |
| 3 | 00900303 0029 | LOCKWASHER, .4375 STAINLESS | 2 |
| 4 | 00900324 0007 | WASHER, FLAT .250 SAE STD ECO COATING | 16 |
| 5 | 00900324 0008 | WASHER, FLAT 5/16 SAE STD | 2 |
| 6 | 00900391 0145 | BOLT, TPHMS .25-20 X 4.00 SS W NYL | 4 |
| 7 | 00900490 0130 | NUT, NYLOK .250-20 STAINLESS STEEL | 8 |
| 8 | 00901052 0002 | ELBOW, 3/8M X 3/8F 90° 3000# | 1 |
| 9 | 00906060 0008 | NIPPLE, HEX .50 NPT SST 7200# | 1 |
| 10 | 00906814 0006 | HOSE, 3/8" ID, 250 PSI | 10 FT |
| 11 | 00906814 0008 | HOSE, 1/2" ID 300 PSI | 8 FT |
| 12 | 00906833 0008 | FITTING, HOSE, 1/2 X 1/2FS JIC | 4 |
| 13 | 00907235 0088 | ADAPTER, 1/2NPT X 1/2JIC 6000# SS | 3 |
| 14 | 00907235 0608 | ADAPTER, .375 NPT X .500 JIC SS | 1 |
| 15 | 00915564 0628 | TEE, 1/2TUBE X 3/8TUBE BARB SS | 1 |
| 16 | 00915785 0008 | VALVE, BALL, 1/2" | 1 |
| 17 | 00925023 1023 | BOLT, HEX M10-1.5 X 45MM GR8.8 | 2 |
| 18 | 00925161 0100 | WASHER, FLAT M10 ZINC PLATED | 2 |
| 19 | 01900216 0596 | BRACKET, OIL LEVEL REGULATOR | 1 |
| 20 | 01900216 0597 | BRACKET, OIL TANK, 1600 | 1 |
| 21 | 01900216 0639 | BRACKET, EXH TIE DOWN T3 950+ | 2 |
| 22 | 01900464 0416 | DECAL, OIL FILL SYSTEM ON Q5X15 | 1 |
| 23 | 03903000 0033 | ADAPTER, M14X1.5 X .375 FNPT | 1 |
| 24 | 05019492 0010 | TANK, RECOVERY 5 GAL | 1 |
| 25 | 05019835 0060 | VALVE, OIL FILL KEEP, Q5X15 | 1 |
| 26 | 00907235 0064 | ADAPTER, 1/4NPT X 3/8JIC 6000# SS | 1 |
| 27 | 00906833 0006 | FITTING, BARB .375 HOSE X .375 FJIC | 1 |

PROPER ALIGNMENT OF THE OIL LEVEL REGULATOR



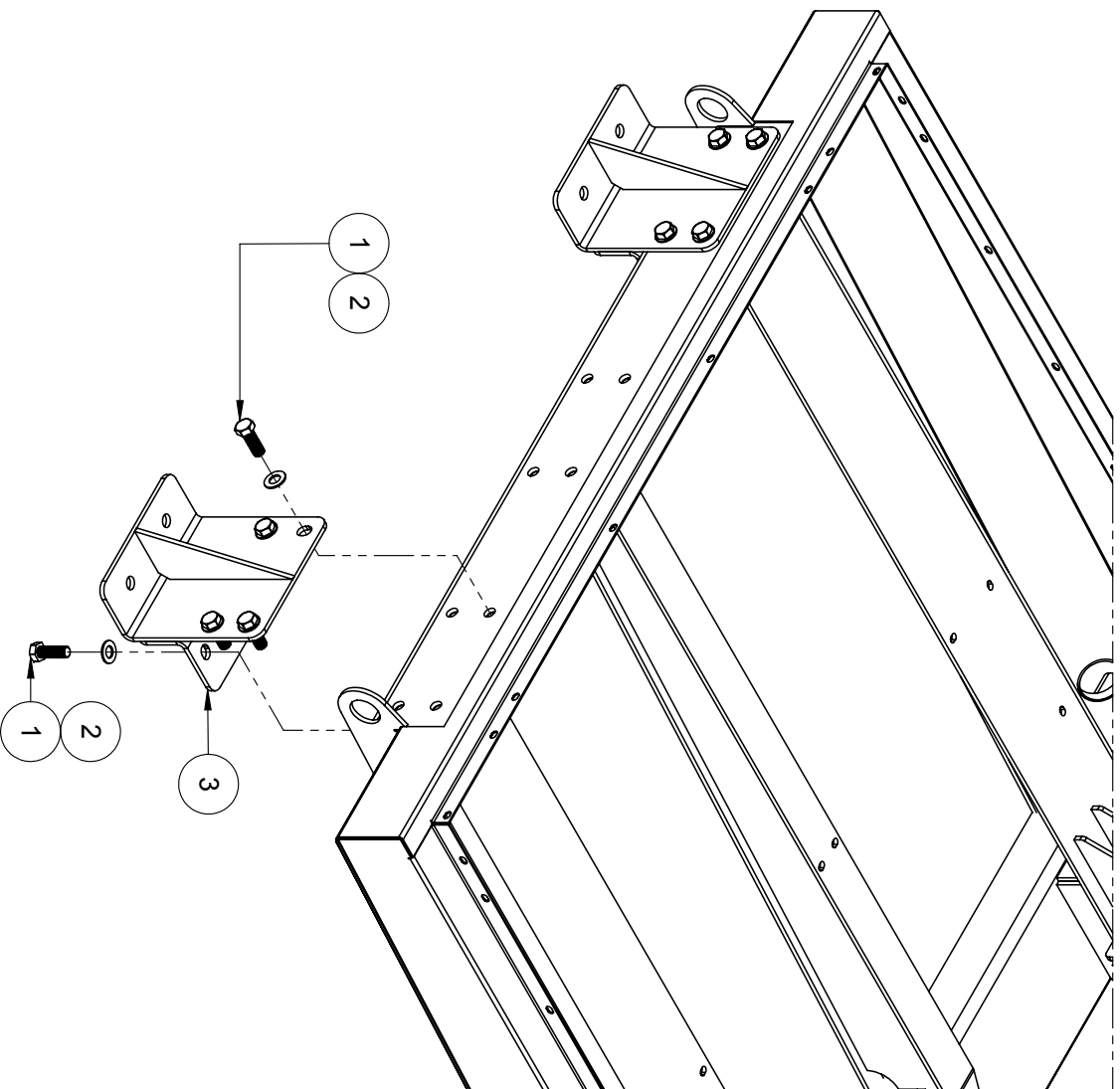


FIGURE 8-61. 00717700 0326 (REV 00)

00717700 0326 SKID MOUNT KIT OPTION

| ITEM | PART NUMBER | DESCRIPTION | QTY |
|------|---------------|-----------------------------|-----|
| 1 | 00900016 0077 | BOLT, HEX 7/8-9 X 2 1/2 GR8 | 10 |
| 2 | 00900323 0017 | WASHER, FLAT 7/8 SAE STD | 10 |
| 3 | 03903464 0244 | SUPPORT, SHIPPING 950+ | 2 |

[OPTION] SKID MOUNT KIT (CONTINUED)

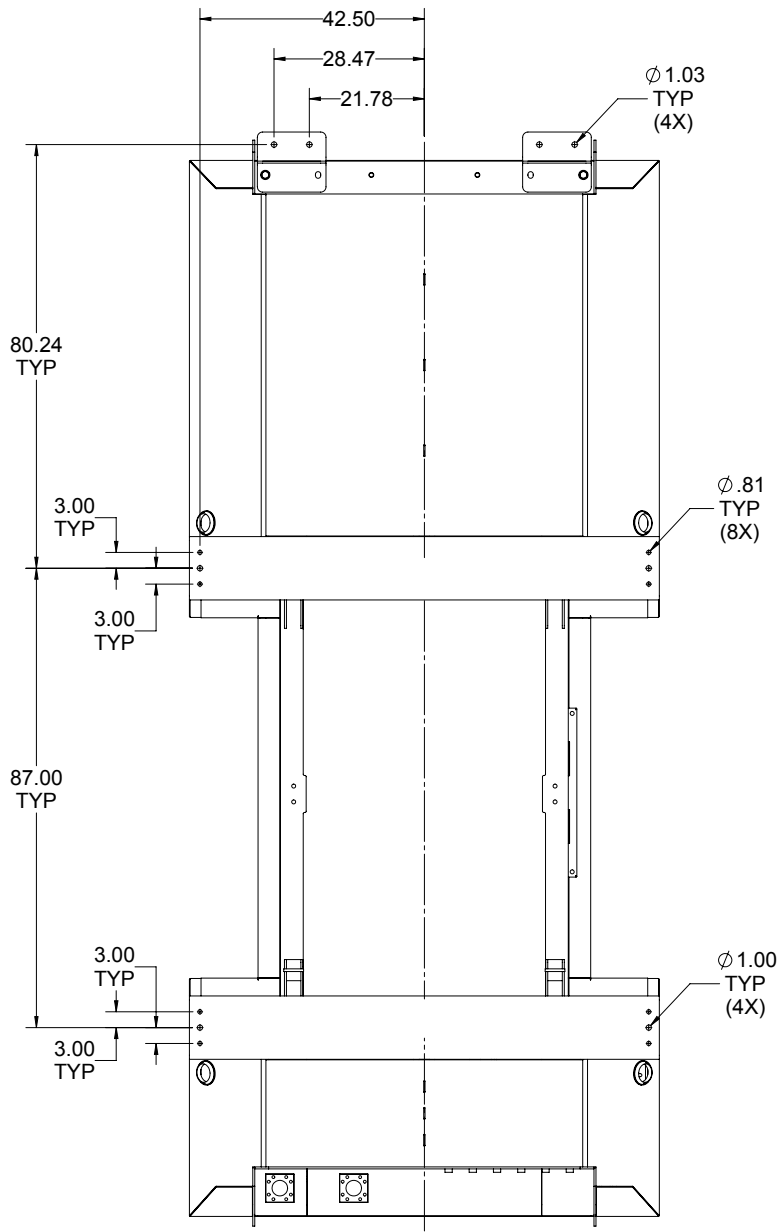
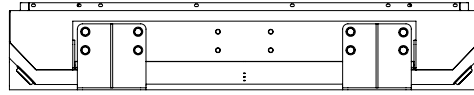
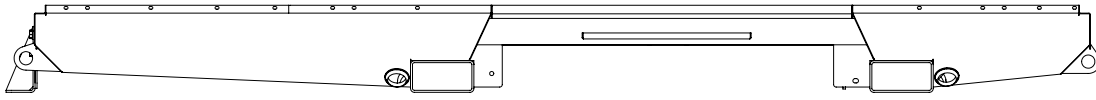


FIGURE 8-62. 00717700 0326 (REV 00)

Sullivan

Palatek

AIR COMPRESSORS

1201 West US Highway 20
Michigan City, Indiana 46360

Phone: 219.874.2497

Fax: 219.809.0203

info@palatek.com

www.sullivan-palatek.com

