

# TECHNICAL INSTRUCTIONS

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#### 30 Gallon Fuel Tank Installation

Models: X4 7700

Purpose: The intent of this technical instruction is to provide guidelines for installing 30-gallon sumpless fuel tank with lift pump located inside the TRU.

## **Required Parts**

Quantity	Part Number	Part Description
1	12-00921-02	Tank, Fuel
1	76-00988-01	Kit, Installation
1	79-01623-06	Kit, Tank Strap
1	Loctite 577	Sealant, Thread

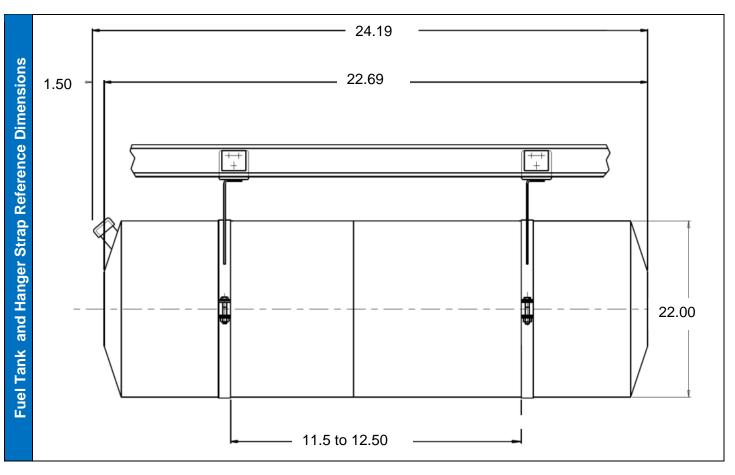
## **Required Tools**

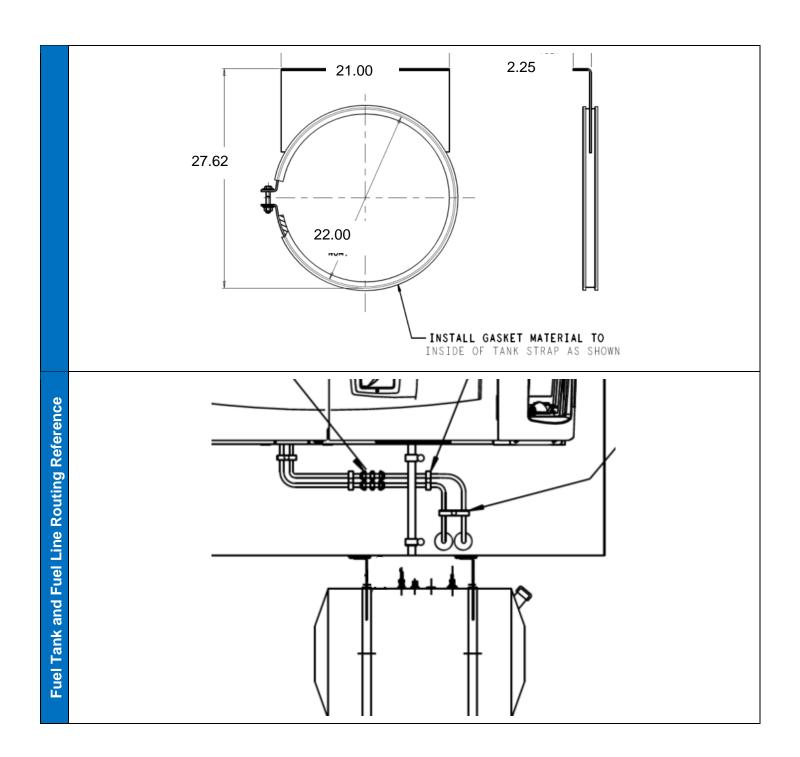
Part Number	Part Description
Customer Supplied	Drill
Customer Supplied	Bit, Drill 9/16" and 13/32"
Customer Supplied	Cutter, Hose
Customer Supplied	Crimper, Weather Pack 14-16 AWG
Customer Supplied	Wrench, Torque (9-60 ft-lb)

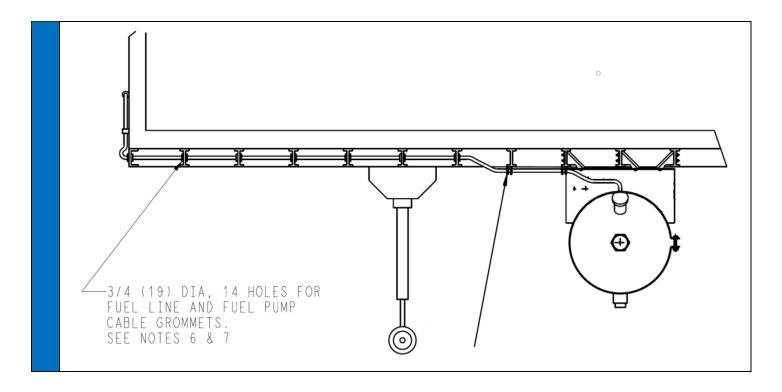
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# **Installation Requirements**

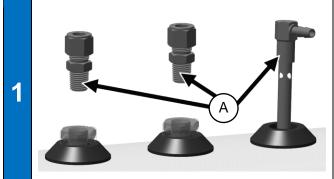
Component	Requirement	
Fuel Tank Support Straps and Brackets Fuel Lines	Must attach to three steel crossmembers.	
	Interface with three crossmembers for 12.00" center.	
	Structural steel channel required to span between crossmembers if 15.00" center.	
	Mylar spacer required between fuel tank hanger bracket and I-beam and between I-beam and backing plate.	
	Mylar washers required between nuts and bolts where they contact fuel tank	
	hanger brackets and backing plates.	
	Routed through grommets when passing through holes in trailer	
	3/4" conduit may be used for fuel line routing in place of grommets	
	Separate supply and return lines from each other where possible	
	Route separately from fuel lines where possible	
	Apply pipe sealant to all pipe connections.	
	Cut fuel lines with fuel line cutter. Cuts must be perpindicular.	
	Supply/return lines 1.00" from bottom of tank.	
	Avoid sharp bends in the line or rubbing on the trailer frame or tank/brackets.	
Component	Requirement	
Threaded Fittings	Apply Loctite 577 to all male NPT threads.	
	Use backing wrench when tightening fittings.	
Fuel Pump Harness	Route separately from fuel lines where possible.	
	Secured every 12.00".	
	Avoid sharp edges, pinch points, and heat sources.	







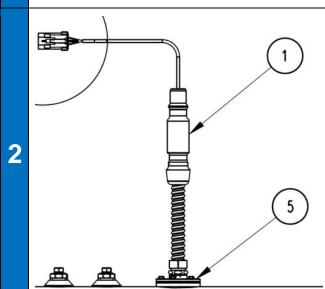
# **Tank Preparation and Strap Installation**



Apply thread sealant (A) (Loctite 577) to male threads of fuel line adapters and tank vent fitting.

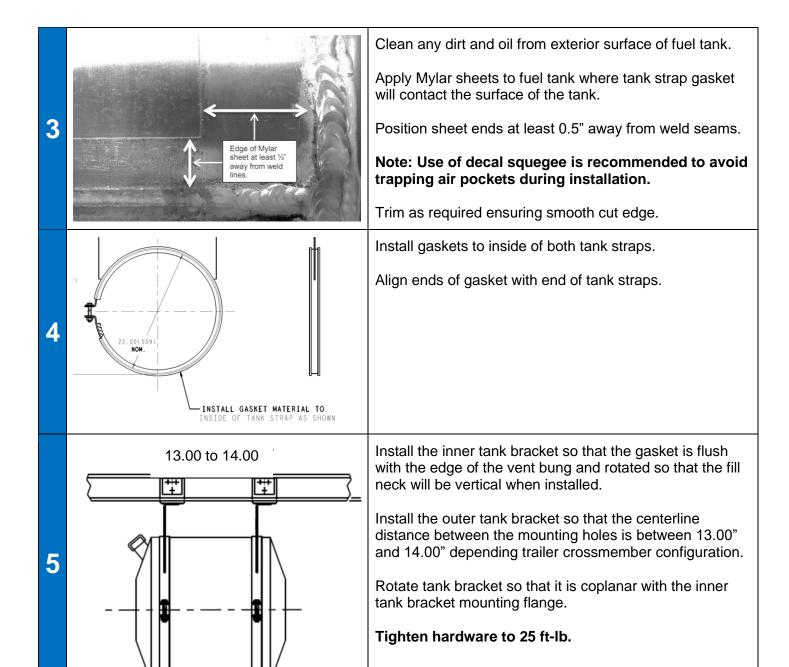
Screw fittings into tank until finger tight and then 1-1/2 to 3 turns with wrench.

Align vent fitting so that barb will face rear of trailer when tank is installed.



Install fuel level sensor FLS (1) into sensor port on the tank (5).

Refer to 98-02678-00 for FLS installation instructions.



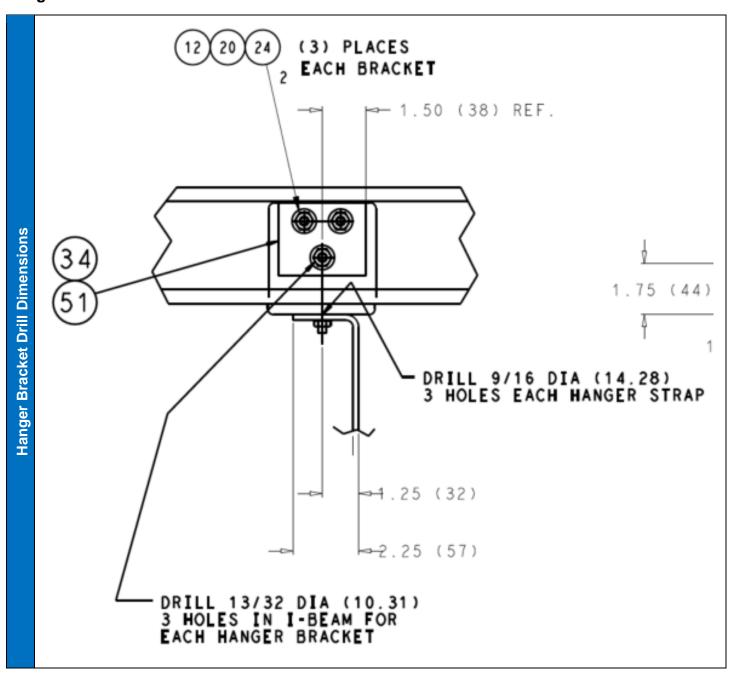


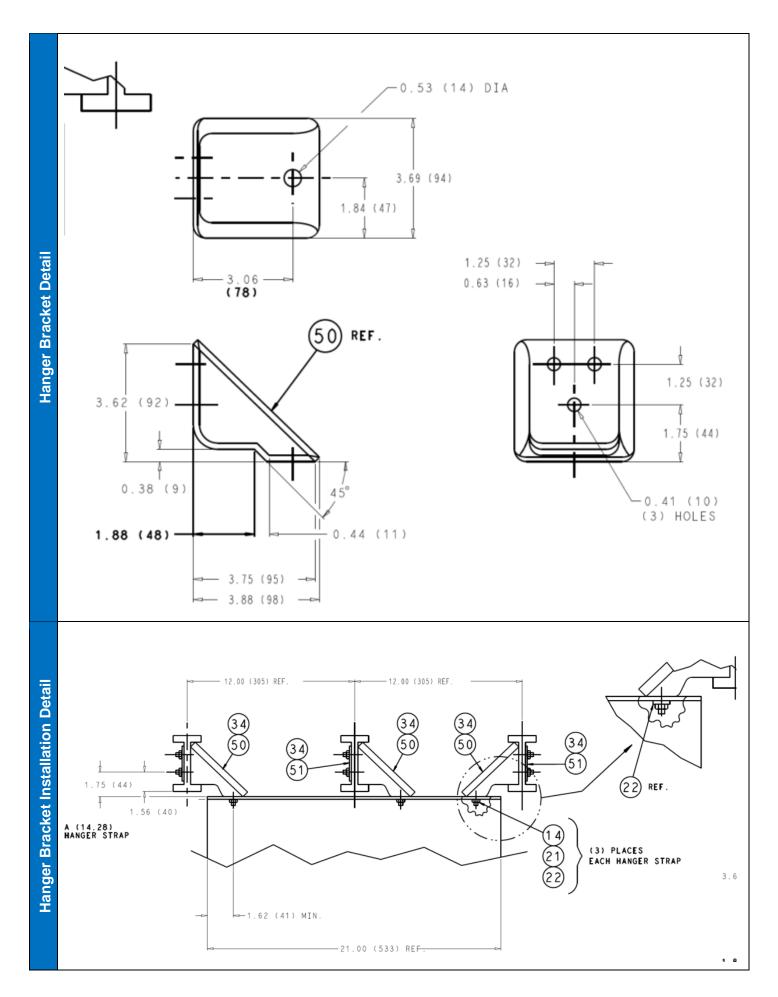
Connect piece of brown fuel line to to tank vent barb.

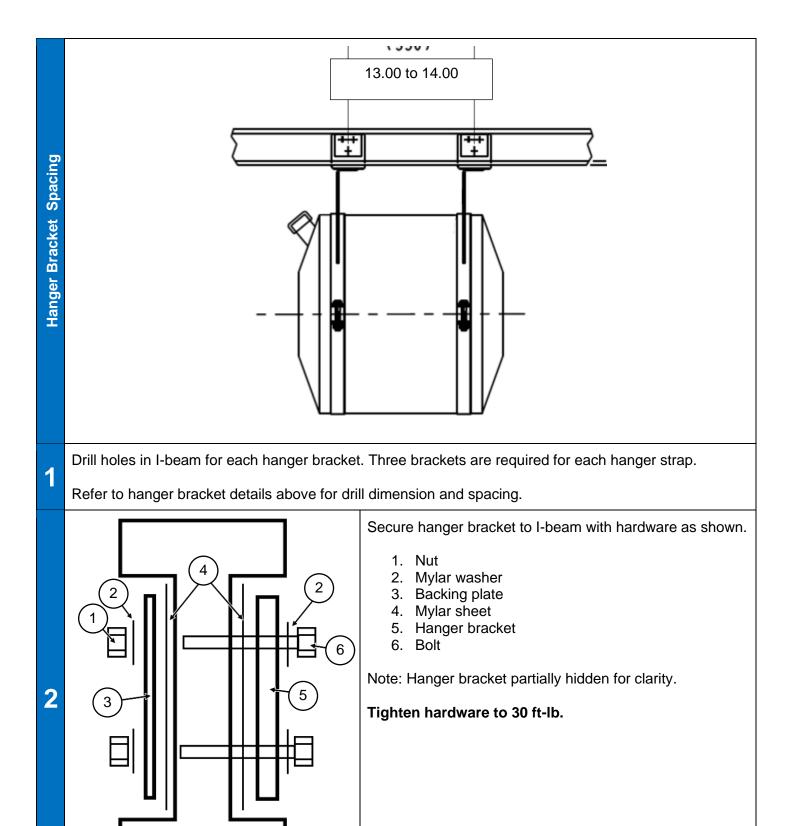
Route hose along tank bracket.

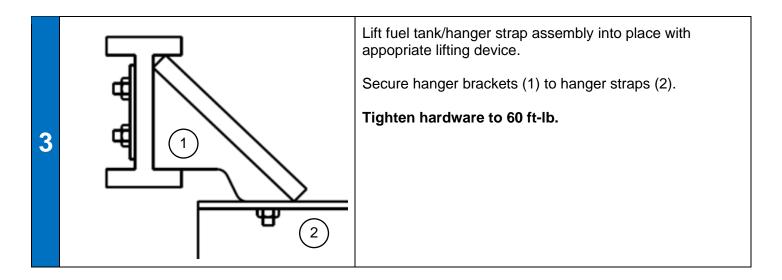
Secure hose to tank strap with cable tie.

## **Hanger Bracket Installation**

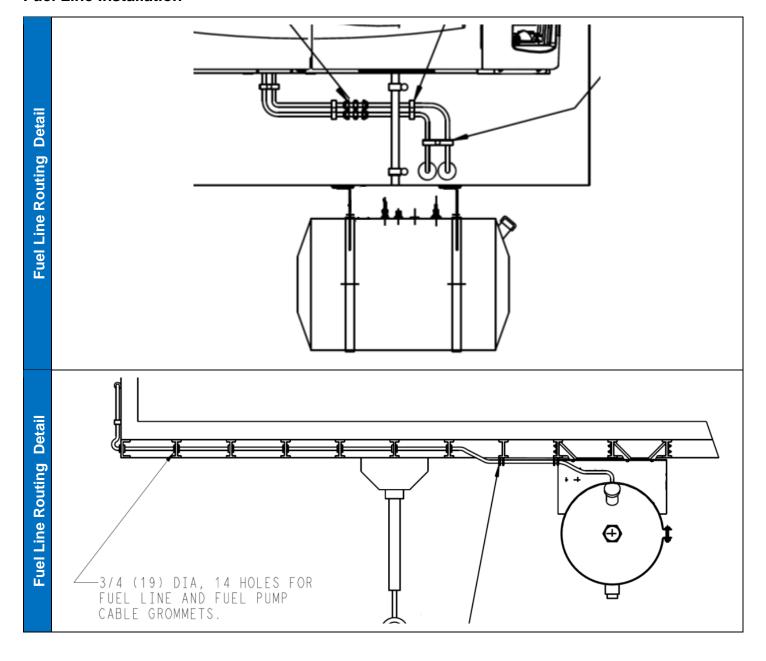


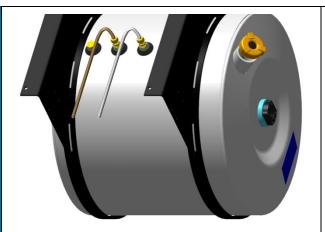






### **Fuel Line Installation**





Insert grey fuel line into the fuel line fitting closest to the fill port.

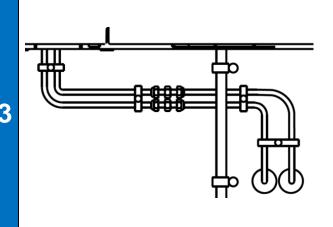
Insert the brown fuel line into the fuel line fitting closest to the vent fitting.

Continue inserting the fuel lines into the tank until the line contacts the bottom of the tank. Pull the fuel line back out of the tank 1.00"

Tighten the compression nut 1-1/4 turns past finger tight.

Route the brown fuel line (tank) and gray line (tank) to the front of the trailer.

Fuel line routing must follow installation requirements.



Route the fuel lines from the front of the trailer to the bottom of the TRU.

Extend the fuel lines from the TRU and through the bottom panel.

Connect the fuel lines from the tank to the TRU fuel lines with fuel line unions.

- Brown to Brown (Supply)
- Gray to Grey (Return)

Tighten compression nuts on unions 1-1/4 turns past finger tight. Use backing wrench.

Individually clamp fuel lines across front of the trailer at the following locations:

- Fuel lines exit TRU.
- Fuel line union
- Start/end of fuel line bends.
- Every 12.00" of fuel line length (As required)