



WT5 Series Water Trailer

Tank Retrofit Kit Installation

The following instructions are intended to assist the user with the installation of the Tank Retrofit Kit on a Multiquip WT5C, WTE5C, WT5HP, or WTE5HP water trailer. It is not intended to take the place of the Operation manual shipped with the water trailer. Refer to the Operation manual for safety, operation, and maintenance information. Please read all assembly instructions before installing the kit.

REQUIRED TOOLS

- 5/16" hex socket
- 3/8 in. socket/wrench
- 7/16 in. socket/wrench

PARTS

Verify that all parts are accounted for. See Table 1 and Figure 1.

Table 1. WT5 Series Tank Retrofit Kit Components				
Item No.	Part No.	Description	Qty.	Remarks
1	59831	Assy., Tank Retrofit, WT5 Series	1	Includes items 2-17
2	59835	Tank Assy., Retrofit Kit	1	
3	59836	Kit, Fab Parts, Tank Retrofit, WT5	1	4-17
4	59832	Bracket, Tank, Rear Hold Down, Retrofit	1	
5	23619	Screw, HHFS 1/4-20 × 1-1/4", ZP	8	
6	49048	Screw, HHFS 1/4-20 × 3/4" Gr 5	4	
7	49663	Gasket, 2" FP, EPDM, BNJ	4	
8	49664	Clamp, Hose Worm, 2" FP, BNJ	4	
9	49070	Nut, HFS, 1/4-20	8	
10	23620	Bolt, Carriage 1/4-20 × 1"	4	
11	49849	Hose, Rubber, 2", 125 psi	0.33'	
12	49735	Fitting, Nipple, 2" FP × 3" L, BNJ	1	
13	49783	Clamp, Hose, Barrel, 2.2-2.5	2	
14	59224	Fitting, 90, 2" FP × 2" Barb, Trimmed, BNJ	2	
15	59834	Riser, Hydrant Fill, W/A, Retrofit, WT5	1	
16	59782	W/A, Fill Tube Mount	1	
17	59837	Instructions, Tank Retrofit Kit, WT5 Series	1	

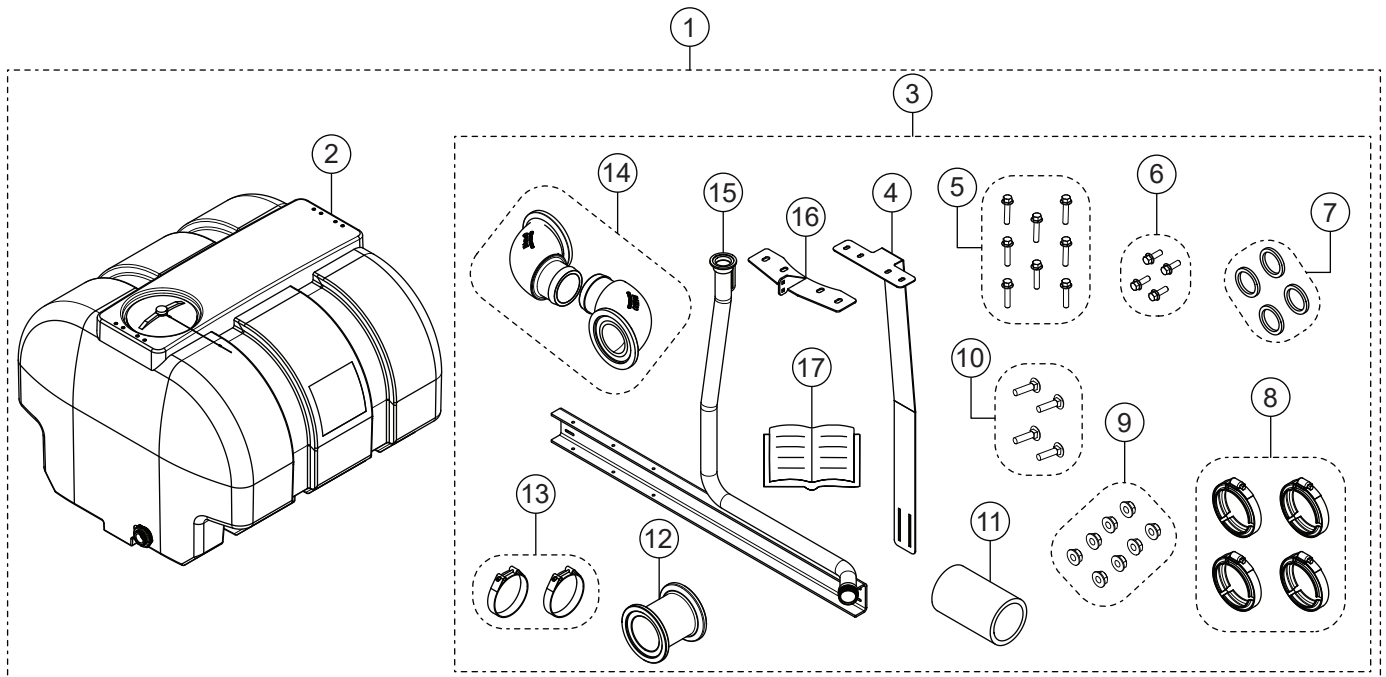


Figure 1. WT5 Series Tank Retrofit Kit Components

WORK SAFELY!

Only a **qualified service technician** with proper training should perform this installation. Follow all shop safety rules when performing this installation.

PREPARATION

1. Place the water trailer on secure, level ground in an area that is free of dirt and debris.
2. Make sure the pump is turned **OFF** and the engine is cool.
3. Drain the water tank.

REMOVAL OF EXISTING COMPONENTS

1. Loosen the **worm clamp** (Figure 2) securing the **upper fill tube** to the fill riser. Remove the upper fill tube and save it for later. Discard the hose clamp.

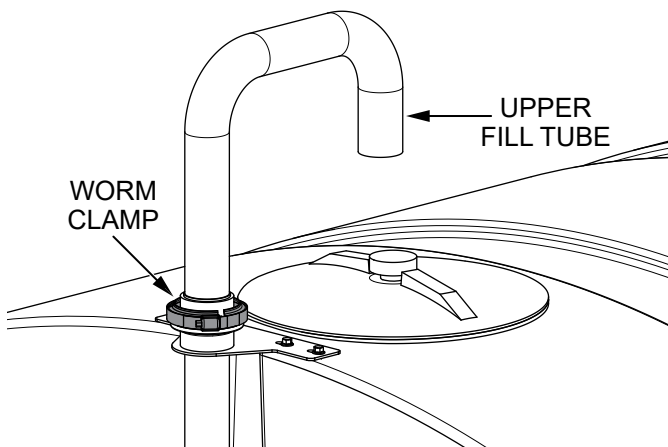


Figure 2. Remove Upper Fill Tube

2. Remove and discard the **four 1/4-20 × 1-1/4" hex flange screws** (Figure 3) securing the **fill riser bracket** to the water tank.

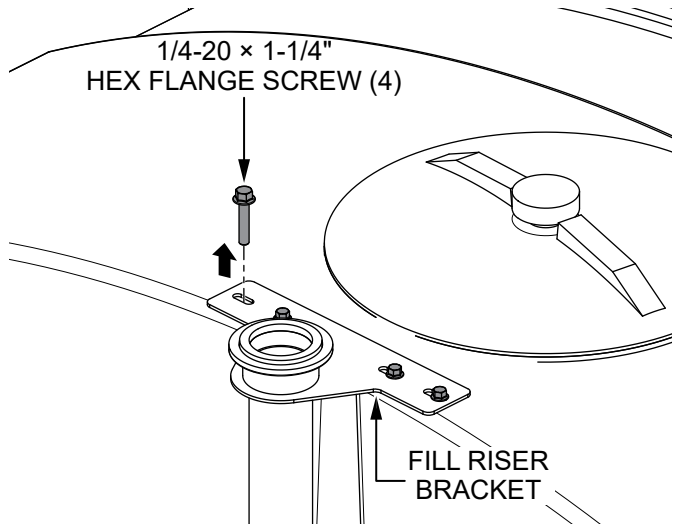


Figure 3. Remove Fill Riser Bracket Screws

3. Remove and discard the **four 1/4-20 × 3/4" hex flange screws** (Figure 4) and **four 1/4-20 hex flange nuts** securing the **front cradle support** to the **left- and right-side cradle shelves**.

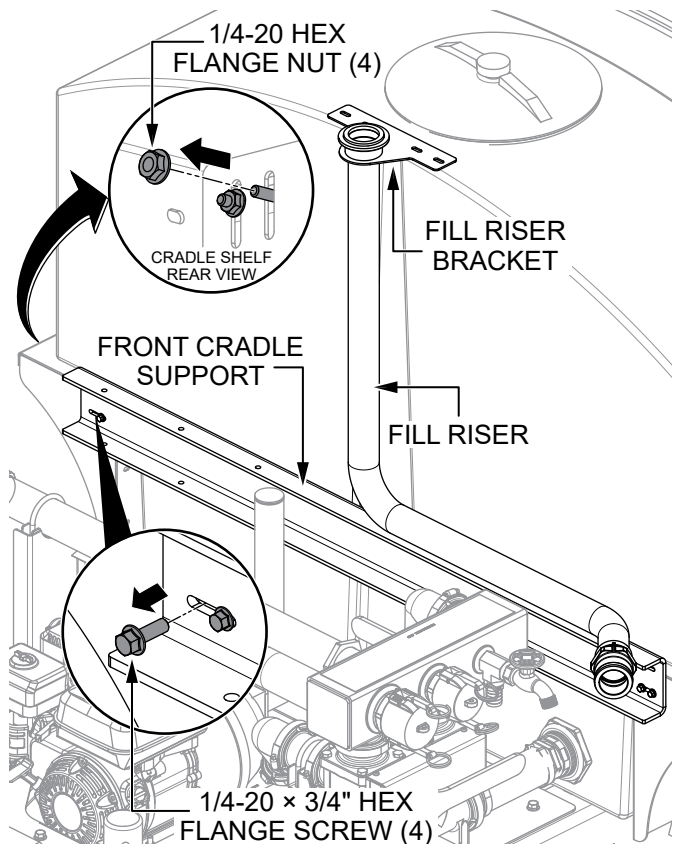


Figure 4. Remove Fill Riser Assembly

4. Remove and discard the **front cradle support, fill riser, and fill riser bracket** (Figure 4).

5. Remove and discard the **four 1/4-20 × 1-1/4" hex flange screws** (Figure 5) securing the **rear holddown bracket** to the water tank.

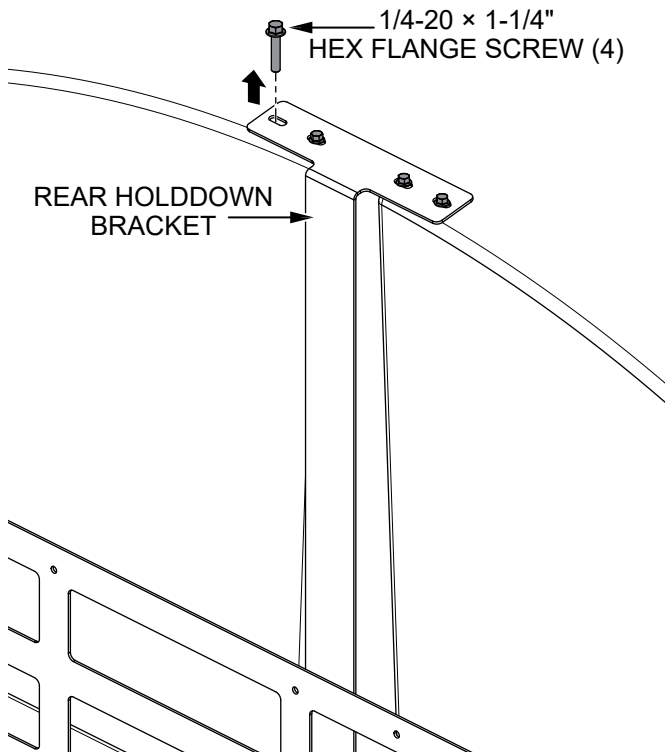


Figure 5. Remove Upper Rear Holddown Bracket Hardware

6. Remove and discard the **two 1/4-20 hex flange nuts** and **two 1/4-20 × 1 carriage bolts** (Figure 6) securing the rear holddown bracket to the trailer. Then remove and discard the bracket.

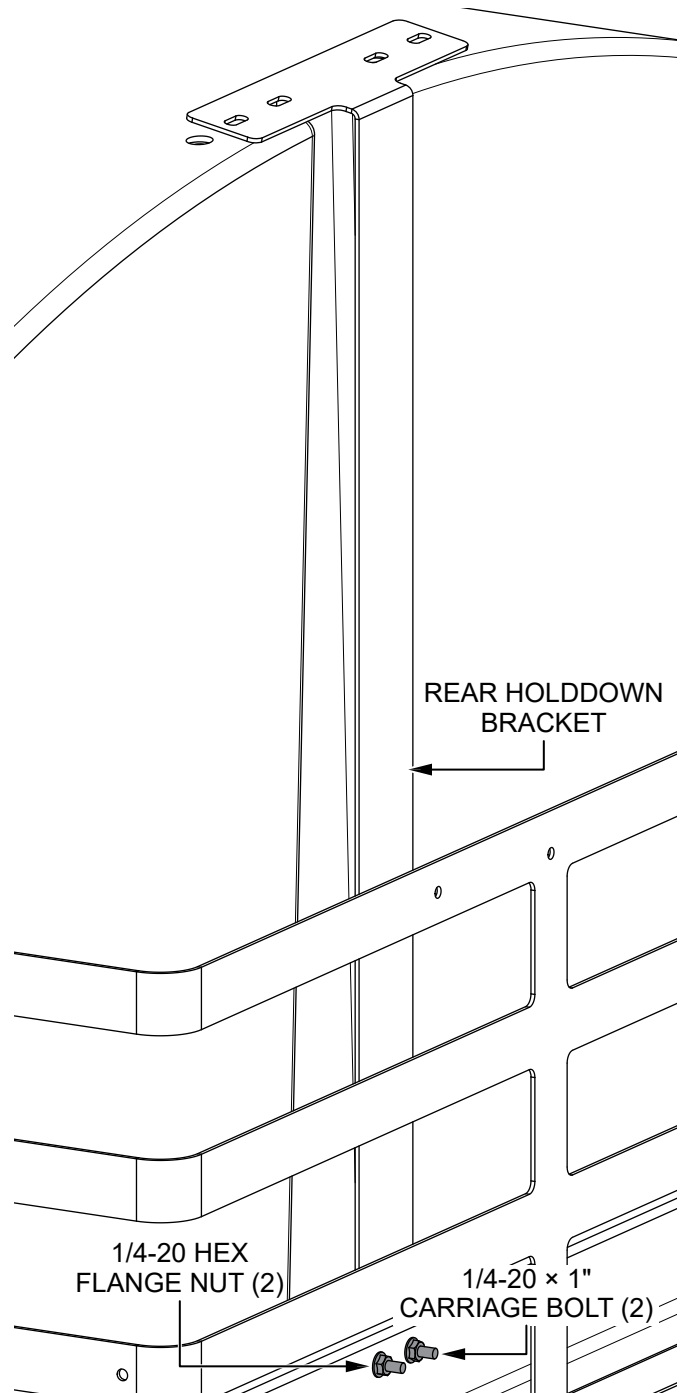


Figure 6. Remove Lower Rear Holddown Bracket Hardware

7. Loosen the **two tank outlet hose clamps** (Figure 7), then remove and discard the **tank outlet hose** and both clamps.

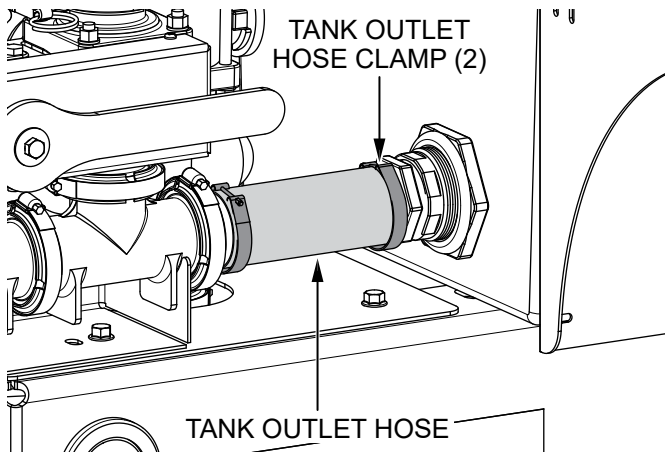


Figure 7. Remove Tank Outlet Hose

8. Loosen the **worm clamp** (Figure 8) securing the **2" barb fitting** to the manifold assembly. Remove and discard the fitting and the clamp.

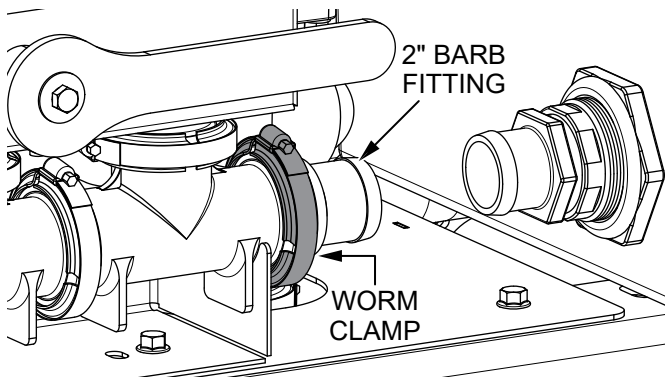


Figure 8. Remove Barb Fitting

9. Remove and discard the **water tank** (Figure 9).

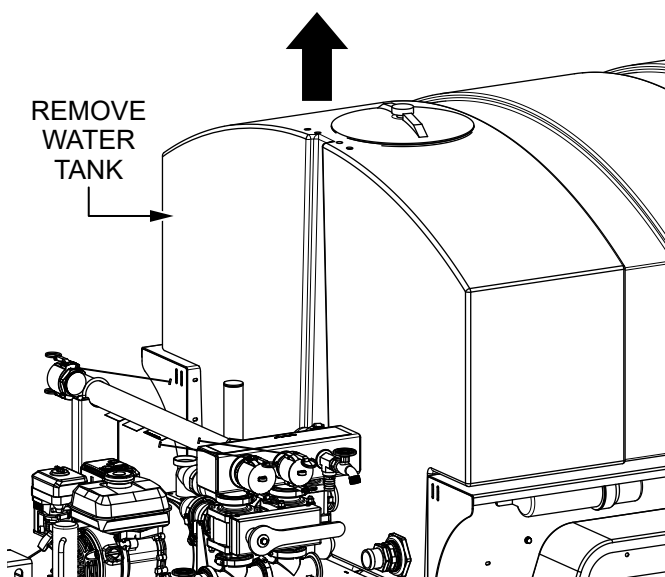


Figure 9. Remove Water Tank

REAR HOLDDOWN BRACKET INSTALLATION

1. Place the **new tank assembly (P/N 59835)** onto the trailer with the tank lid towards the front of the trailer. Make sure the tank is seated properly by aligning the angled slots in the tank (Figure 10) with the tank cradle gussets.

TANK ASSEMBLY
P/N 59835

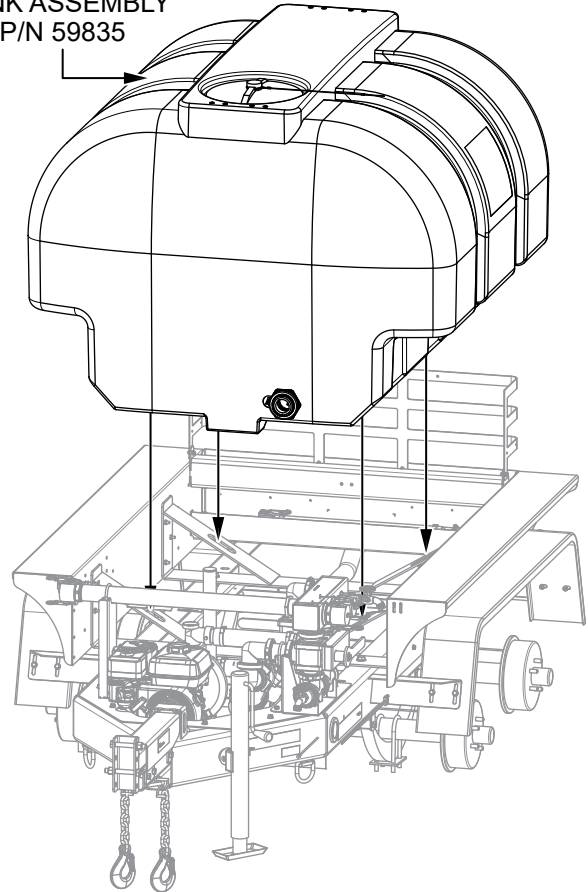


Figure 10. Install New Tank Assembly

2. There are four 1/4-20 blind nuts installed inside the four holes at the rear of the tank. Line up the four holes in the **rear holddown bracket (P/N 59832)** with the four holes in the rear of the tank as shown in Figure 11. Loosely install **four 1/4-20 × 1-1/4" hex flange screws (P/N 23619)** to hold the bracket in place. **DO NOT** fully tighten the screws at this time.

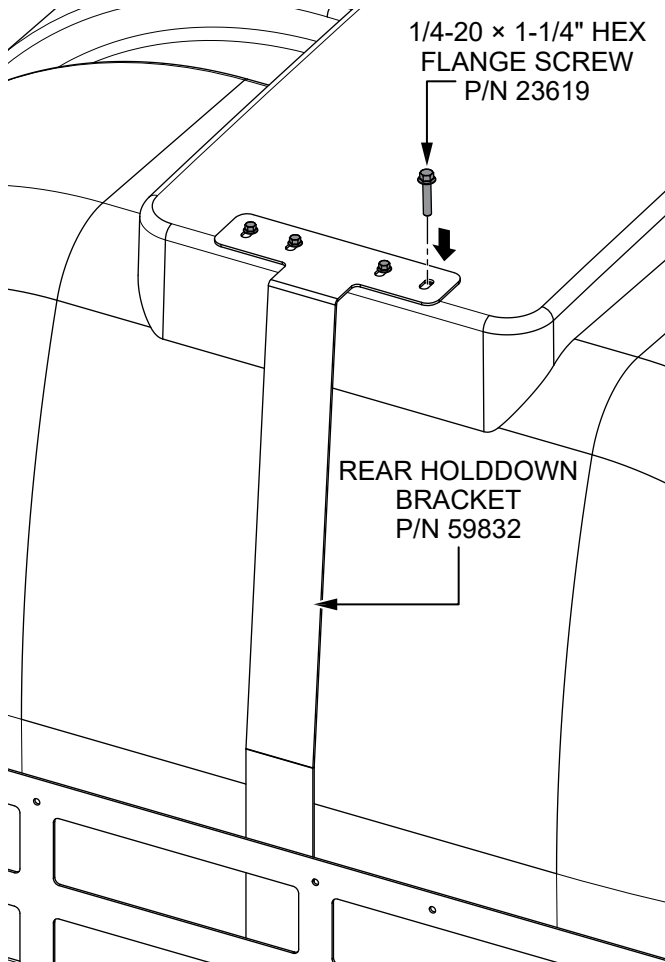


Figure 11. Install Rear Holddown Bracket Top Screws

3. Use two 1/4-20 × 1" carriage bolts (P/N 23620) and two 1/4-20 hex flange nuts (P/N 49070) to secure the lower portion of the **rear holddown bracket (P/N 59832)** to the **rear tank support brace** as shown in Figure 12. Tighten the hardware securely.

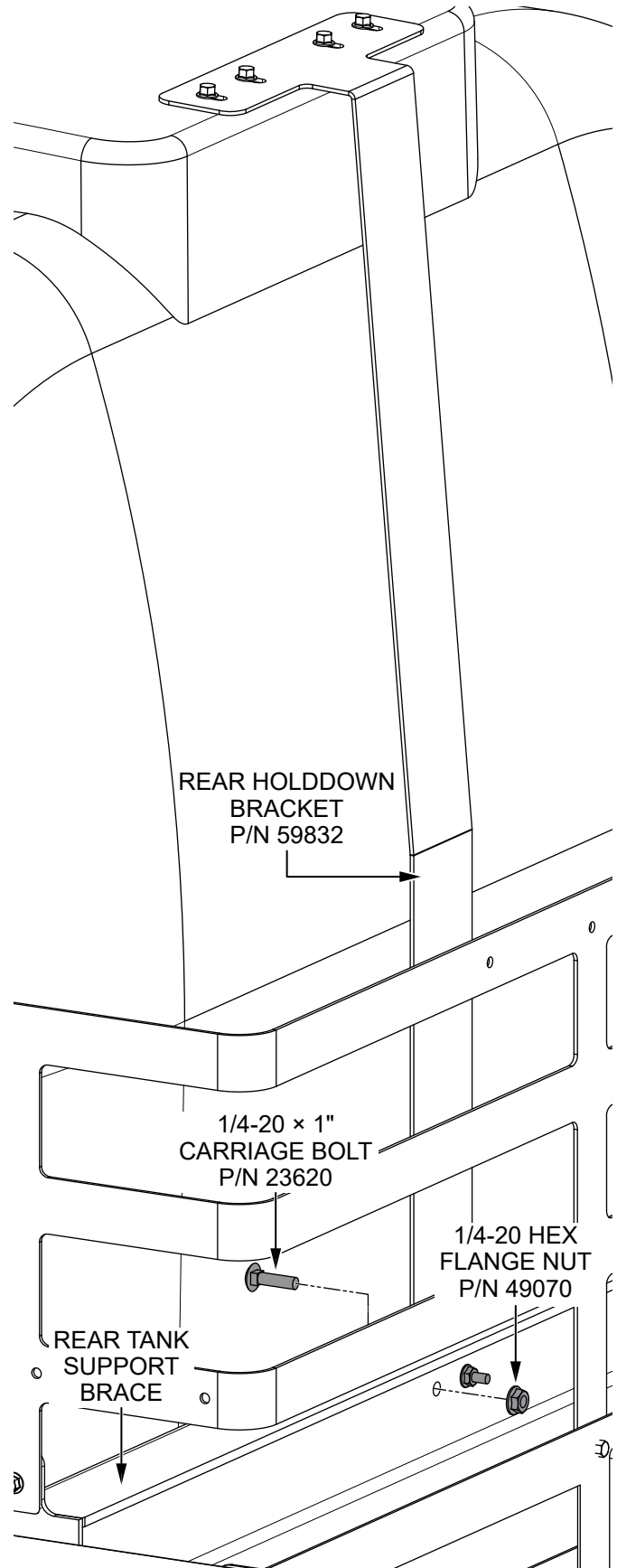


Figure 12. Secure Rear Holddown Bracket To Rear Tank Support Brace

- Securely tighten the four 1/4-20 × 1-1/4" hex flange screws (P/N 23619) that were installed during step 2 (Figure 11).

HOSE AND FITTINGS INSTALLATION

- Use a **gasket (P/N 49663)** and **worm clamp (P/N 49664)** to install a **90-degree fitting (P/N 59224)** onto the **tank fitting**. The 90-degree fitting should be parallel to the ground with the barbed end pointing toward the left side of the trailer as shown in Figure 13. Tighten the worm clamp securely.

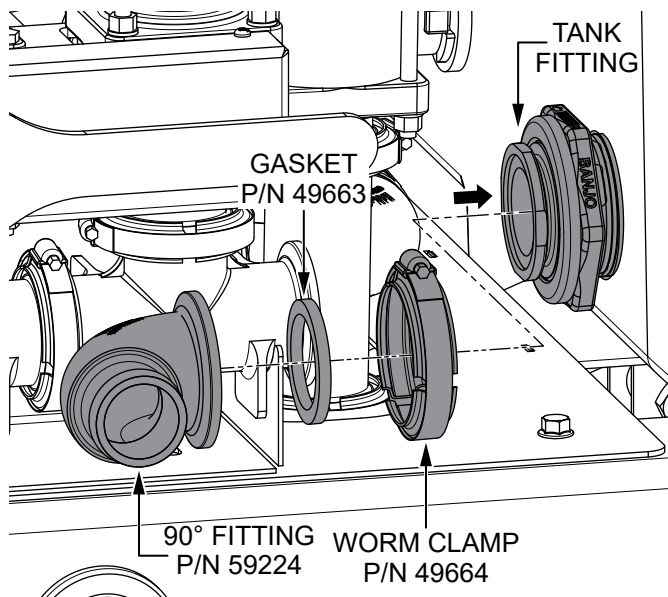


Figure 13. Install 90-Degree Fitting

- Place a **hose clamp (P/N 49783)** onto one end of the new **rubber hose (P/N 49849)**. See Figure 14.

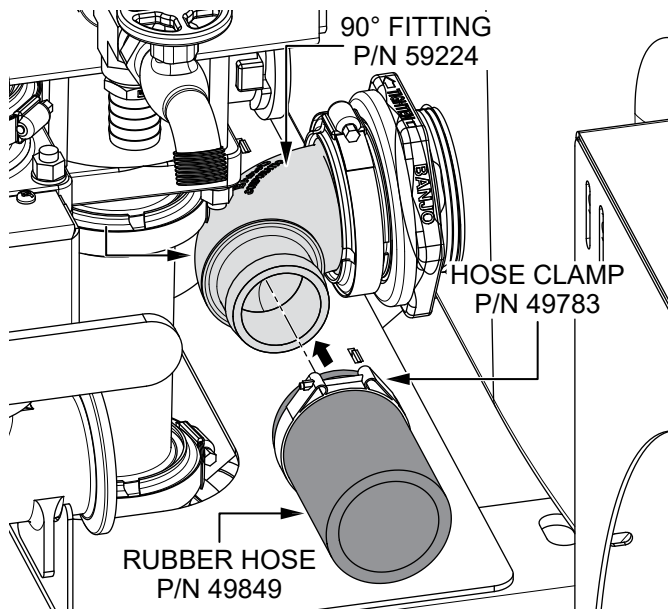


Figure 14. Install Rubber Hose Onto 90-Degree Fitting

- Place the end of the **rubber hose (P/N 49849)** with the **hose clamp (P/N 49783)** onto the **90-degree fitting (P/N 59224)**. **DO NOT** tighten the hose clamp at this time. See Figure 14.
- Place the other **hose clamp (P/N 49783)** onto the open end of the **rubber hose (P/N 49849)**. See Figure 15.

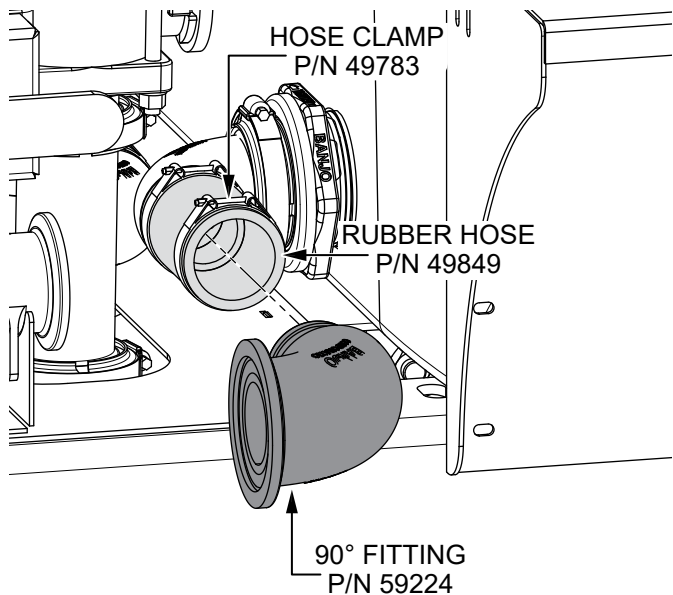
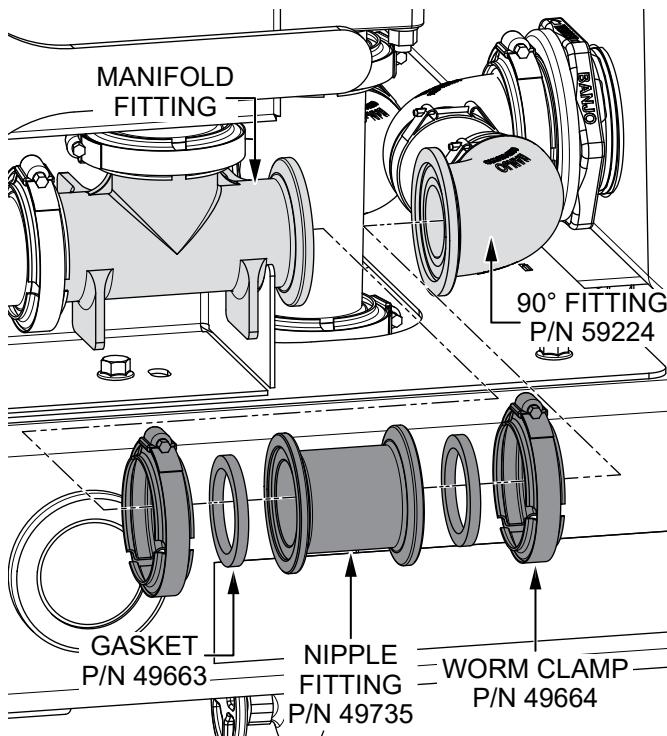


Figure 15. Install Rubber Hose Onto Second 90-Degree Fitting

- Slide the barbed end of the remaining **90-degree fitting (P/N 59224)** into the open end of the **rubber hose (P/N 49849)**. **DO NOT** tighten the hose clamp at this time. See Figure 15.

- Secure the **nipple fitting (P/N 49735)** to the open end of the **90-degree fitting (P/N 59224)** using a **gasket (P/N 49663)** and **worm clamp (P/N 49664)**. Tighten the worm clamp securely. See Figure 16.



**Figure 16. Install Nipple Fitting
Onto 90-Degree Fitting**

- Secure the open end of the **nipple fitting (P/N 49735)** to the available **manifold fitting** using a **gasket (P/N 49663)** and **worm clamp (P/N 49664)**. Tighten the worm clamp securely. See Figure 16.
- Tighten both **hose clamps (P/N 49783)** securely. See Figure 17.

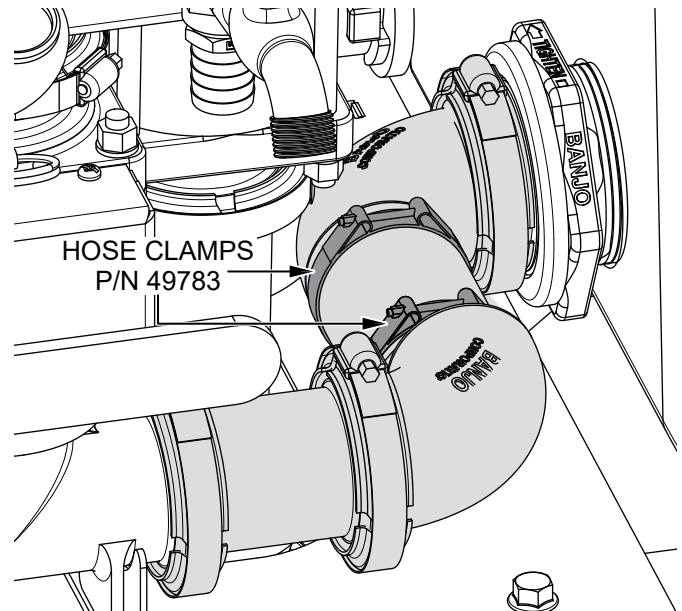


Figure 17. Tighten Hose Clamps

FILL RISER INSTALLATION

- Use **four 1/4-20 × 3/4" hex flange screws (P/N 49048)** and **four 1/4-20 hex flange nuts (P/N 49070)** to secure the fill riser (P/N 59834) to the **left- and right-side cradle shelves** as shown in Figure 18. Tighten the hardware securely.

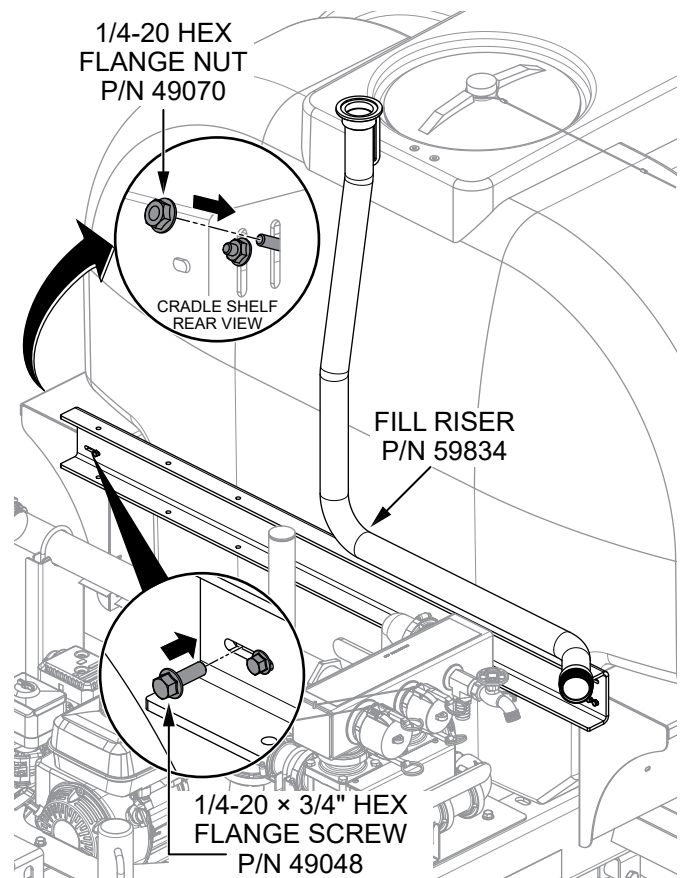


Figure 18. Install Fill Riser

- There are four 1/4-20 blind nuts installed inside the four holes at the front of the tank. Line up the four holes in the **fill tube mount (P/N 59782)** with the four holes in the front of the tank as shown in Figure 19. Loosely install **four 1/4-20 × 1-1/4" hex flange screws (P/N 23619)** to hold the fill tube mount in place. **DO NOT** fully tighten the screws at this time.

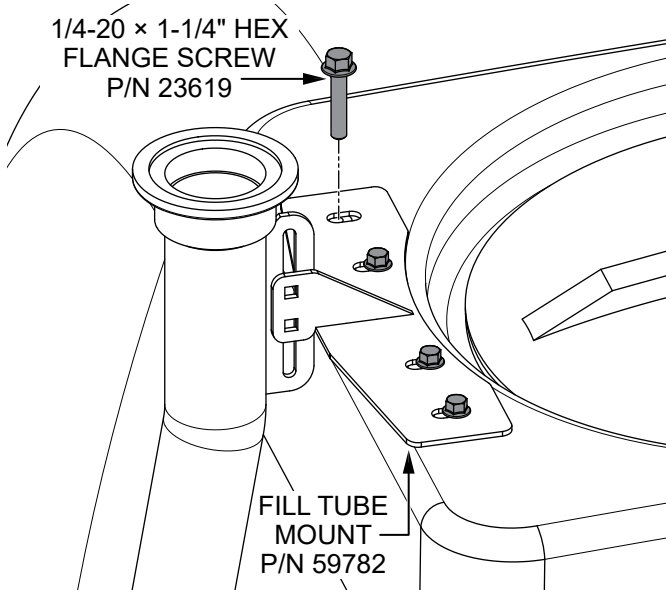


Figure 19. Install Fill Tube Mount Screws

- Use two 1/4-20 × 1" carriage bolts (P/N 23620) and two 1/4-20 hex flange nuts (P/N 49070) to secure the fill tube mount (P/N 59782) to the fill riser (P/N 59834) as shown in Figure 20. Securely tighten all of the hardware from this step and step 2.

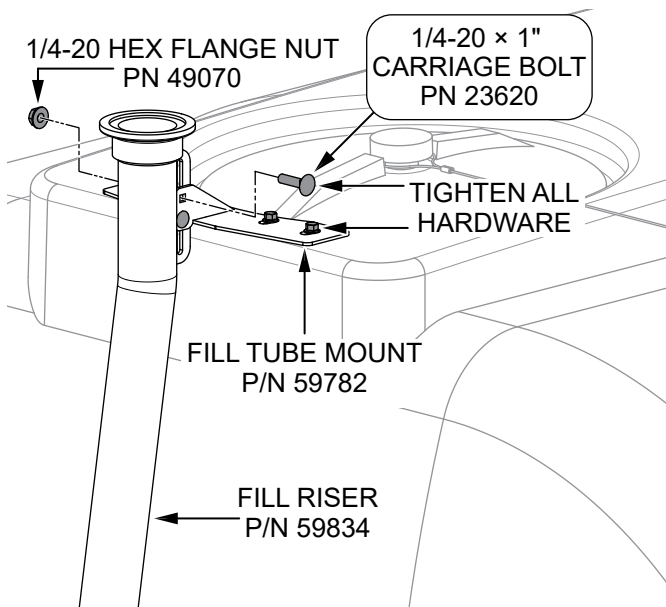


Figure 20. Secure Fill Tube Mount To Fill Riser

- Use a **gasket (P/N 49663)** and **worm clamp (P/N 49664)** to install the **upper fill tube** that was removed at the beginning of the procedure onto the fill riser (P/N 59834). Make sure the upper fill tube is positioned over the **fill port** as shown in Figure 21, then tighten the worm clamp securely.

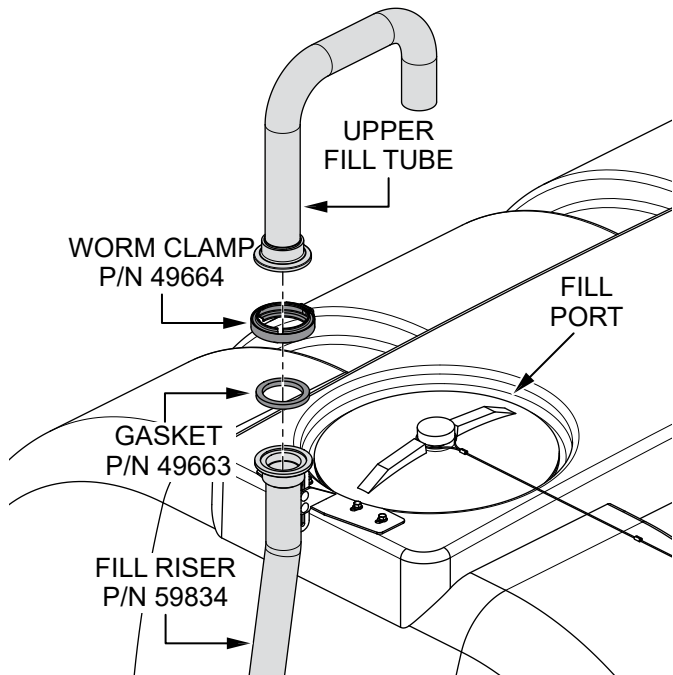


Figure 21. Install Upper Fill Tube

HERE'S HOW TO GET HELP

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