

Vermeer MV Solutions, Inc.

Trenchless
 Piedmont, SC 29673 USA

FIELD CAMPAIGN KIT #: VVK000002 Rev. 2 **DATE:** 22 December 2022

For Dealer Reference: Service Bulletin #: SVV2020-003

Axle Relocation Kit

**CAMPAIGN
 TYPE:**

Mandatory-Product Safety
DEALER INSTALLATION ONLY

**CAMPAIGN
 CATEGORY:**

Kit and Bulletin

MACHINE/ ATTACHMENT MODEL(S):	SERIAL NUMBERS:		Kit version
	Included	Excluded	
LP873SDT	See attached listing on pages 23-25 of this Bulletin for specific VIN and Serial/Unit numbers		VVK01
LP873SGT			
LP873XDT			
LPSDT			
LPSGT			
LPXGT			
MC873SDT			
MINICOMBO			



Purpose:

Reason for Revision 2:

The kit instructions and bulletin are being revised to advise the dealership if the machine had a scissors jack to contact product safety at productsafety@vermeer.com. No other changes to

Reason for Revision 1:

Kit instructions have been revised to:

- Correct gusset locations shown in step 17, page 12.
- Added instructions for disconnecting and reconnecting water tank plumbing in steps 6-9 and 33-35.
- Bom updated to include items 7-9 in figure 1 on page 27.

VACUUM EXCAVATOR SIDE-TO-SIDE SWAY POSSIBLE

While towing a vacuum excavator with a loaded debris tank and at highway speeds greater than 40 mph (64 kph), the vacuum excavator may cause unpredictable side-to-side swaying behind the towing vehicle.

DEATH OR SERIOUS INJURY POSSIBLE

When towing the vacuum excavator on public roadways, **death or serious injury** may result due to loss of control of the vacuum excavator and towing vehicle. Property or equipment damage may also occur.

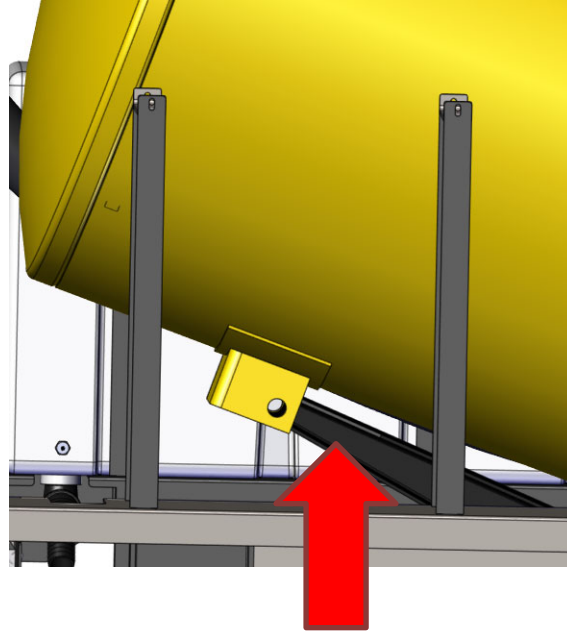
IMMEDIATE MACHINE MODIFICATIONS REQUIRED

VVK00-0002 has been created to provide the necessary parts and instructions to relocate the axle(s) rearward to redistribute the weight. **This kit must be installed as soon as possible.**

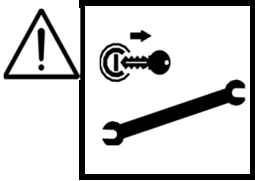
Special tools and conditions:

- Suitable lifting device capable of lifting approximately 390 lb (177kg)

NOTE: DO NOT INSTALL THIS KIT ON UNITS WITH THE SCISSOR-STYLE LIFT MOUNTED TO THE BOTTOM OF THE DEBRIS TANK AS SHOWN.



USE SHUTDOWN PROCEDURE



WARNING: Failure to use shutdown procedure can result in unexpected hazard(s). Death or serious injury could result due to entanglement, crushing, cutting, or other hazardous contact. Follow Shutdown Procedure after operating, before performing any service or maintenance, and before transporting.

Shutdown Procedure

Stopping the machine

For your safety and the safety of others, follow shutdown procedure before working on the machine for any reason, including servicing, maintaining, cleaning, inspecting, unclogging or transporting machine, or as otherwise directed in Operator's manual.

Step 1: Make sure end of vacuum hose is clear of all spoils, debris, and other materials.

Step 2: Turn *Water Pump Switch* to OFF.

Step 3: Push *Throttle Switch* to SLOW. Idle engine five minutes to allow vacuum pump to cool down. This helps to prevent the buildup of condensation.

Step 4: Turn key switch to OFF to shut off engine. Remove the key.

Step 5: Pull trigger on any high-pressure water tool to relieve line pressure.

Step 6: Disassemble all water line connections, vacuum hoses, and tools. Stow properly on machine.

Step 7: Drain CVS filter housing/cyclone.



WARNING: Do not point high pressure water tool in the direction of people when relieving the pressure.



WARNING: Pressurized fluid can penetrate body tissue and result in death or serious injury. Leaks can be invisible. Keep away from any suspected leak. Relieve pressure in the hydraulic system before searching for leaks, disconnecting hoses, or performing any other work on the system. If you must pressurize the system to find a suspected leak, use an object such as a piece of wood or cardboard rather than your hands. When loosening a fitting where some residual pressure may exist, slowly loosen the fitting until oil begins to leak. Wait for leaking to stop before disconnecting the fitting. Fluid injected under the skin must be removed immediately by a surgeon familiar with this type of injury.

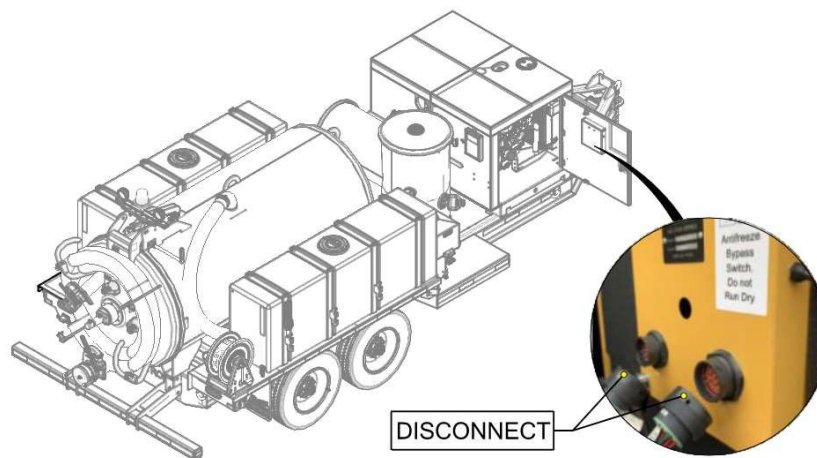
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Procedure 1:



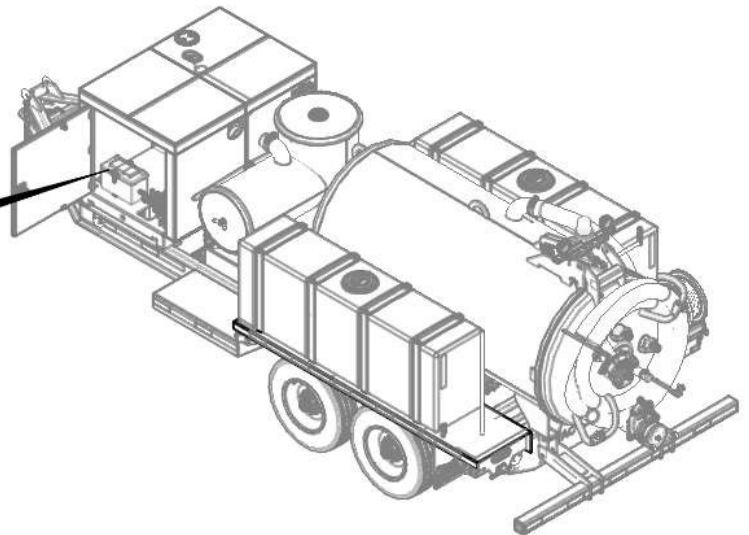
WARNING: Never lift machine over personnel. The load may fall or shift, crushing anyone beneath it.

1. Ensure the debris tank and water tanks are empty. Use suitable blocking to ensure the trailer does not shift or fall while work is performed. LP 873 trailers weigh approximately 8,500 lb (3,855 kg). MC 873 trailers weigh approximately 9,500 lb (4,300 kg).
2. Disconnect the control panel located inside the engine enclosure door on the curb side.

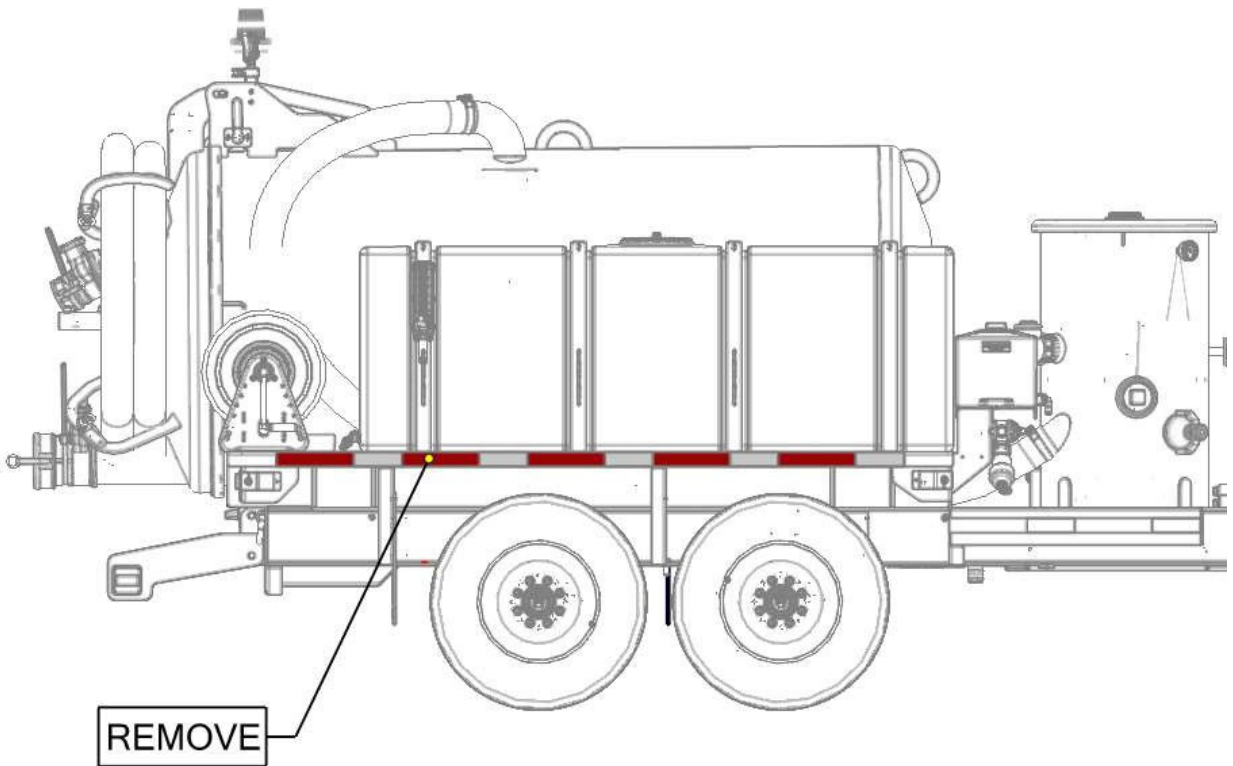


3. Disconnect wires from the POSITIVE battery terminal located inside the engine enclosure on the street side.

DISCONNECT

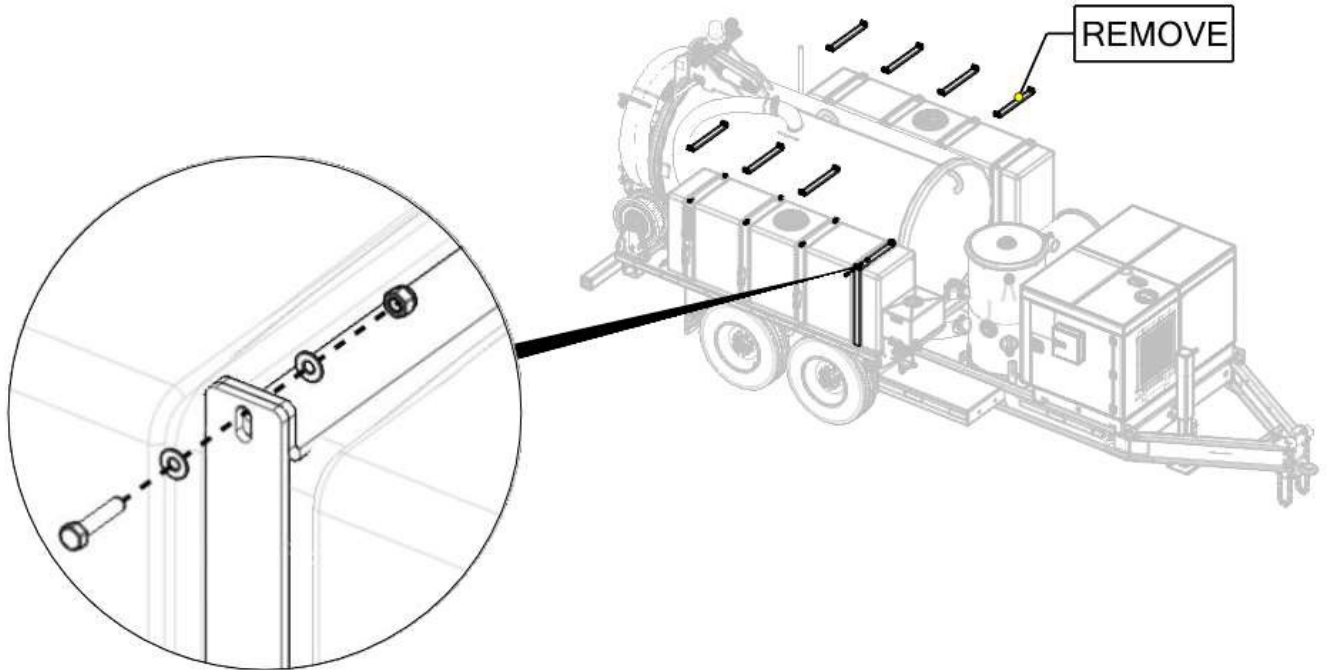


4. Remove the conspicuity tape located on the fenders below the water tanks on both sides of the trailer (Curb Side shown).

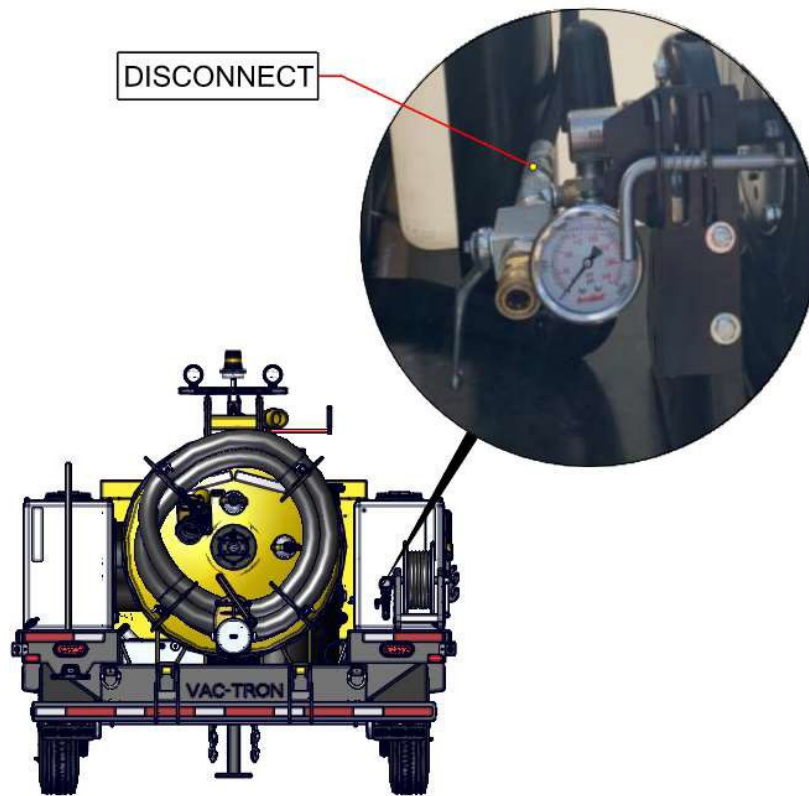


REMOVE

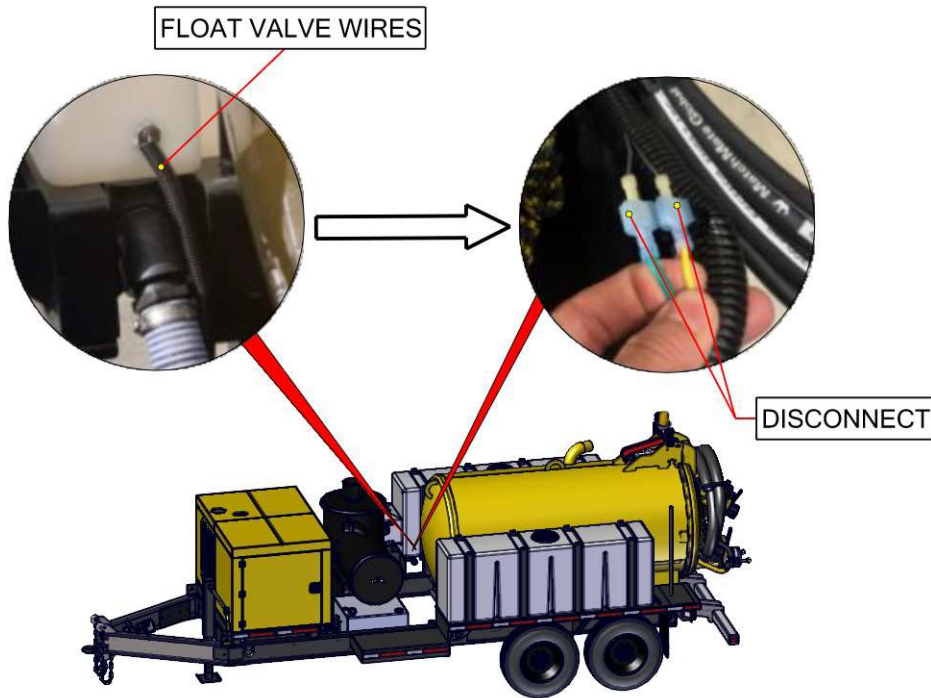
5. Use a 1/2" (12.7 mm) socket to remove the (8) tank strap ties. Retain tank strap ties and fasteners for future installation.



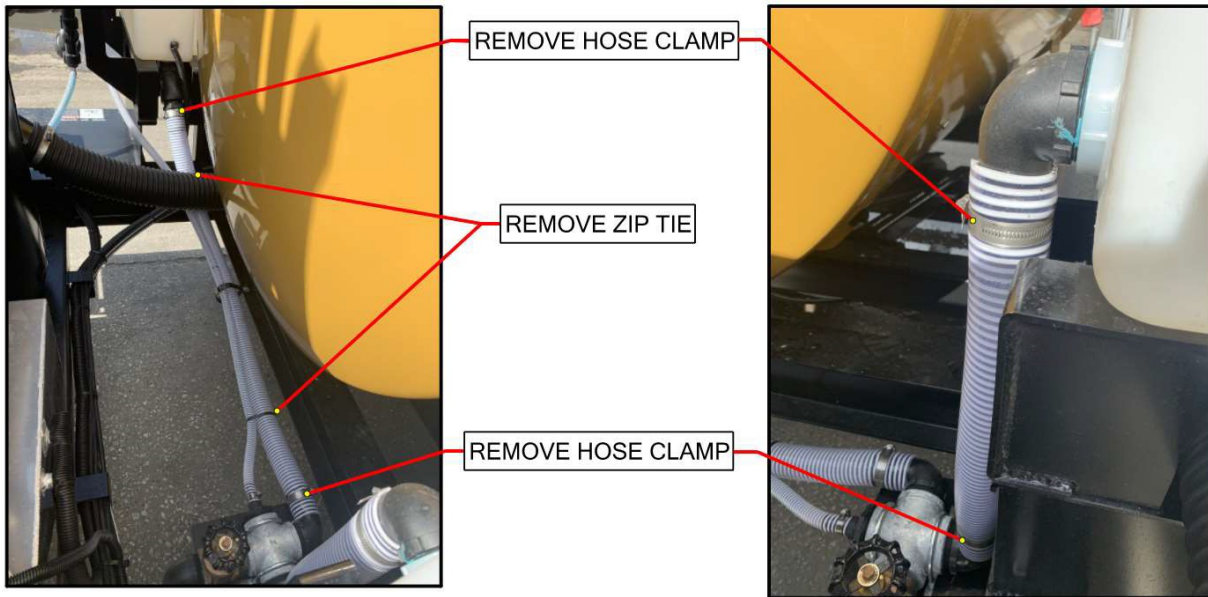
6. Disconnect the overflow hose from the ball valve located near the hose reel (curb side).



7. Locate the float valve wires on the curb side water tank. Unplug the wire connectors located inside of the wire loom.

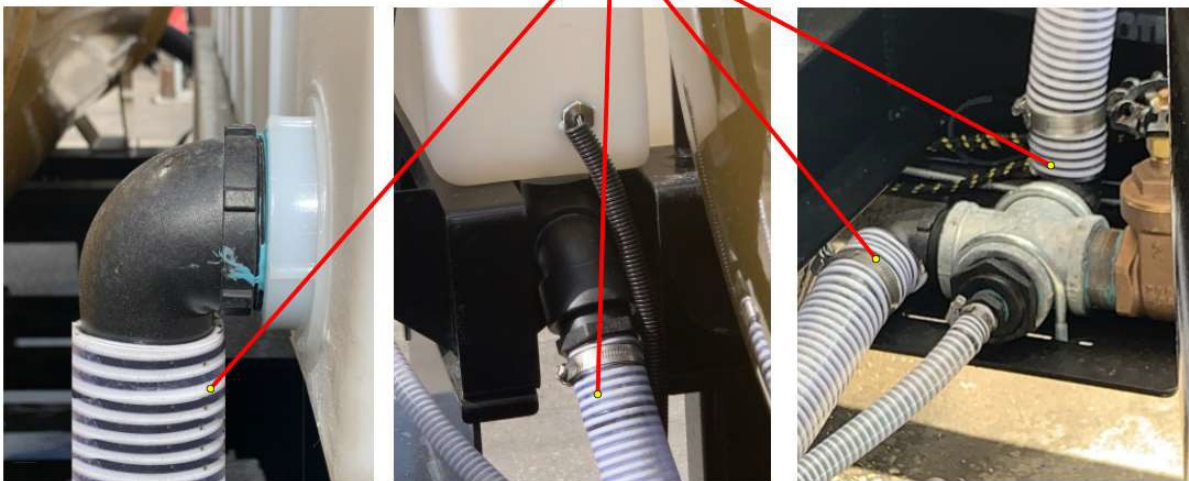


8. Remove the zip ties and hose clamps from the 2" hoses that connect the water tanks to the 4- way valve.

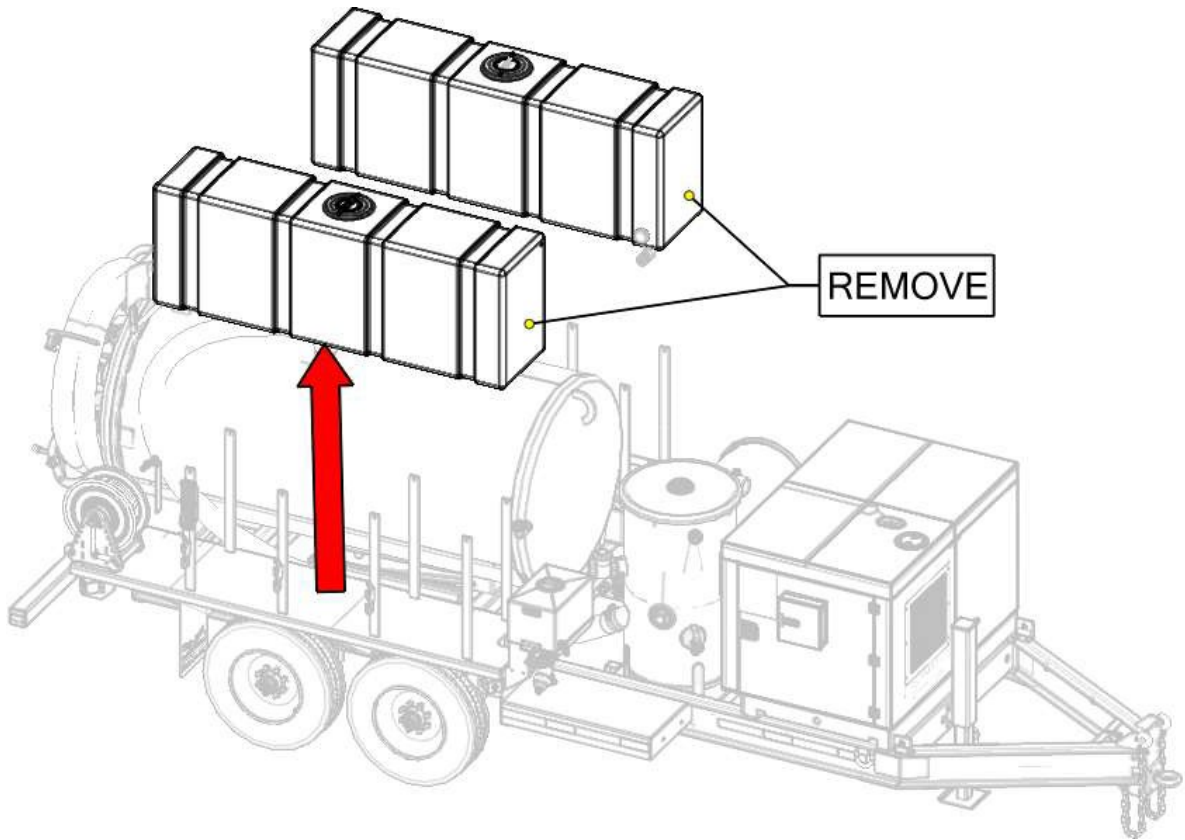


9. Remove the 2" hoses and discard.

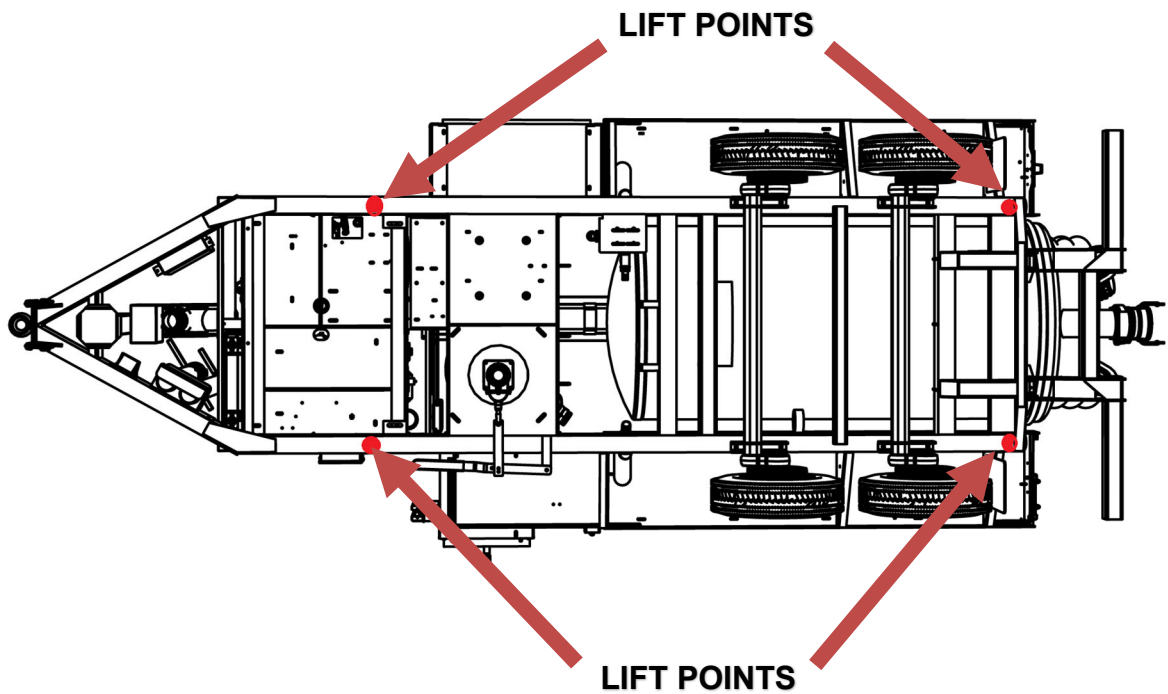
HEAT HOSE ENDS WITH A PROPANE TORCH AND CUT TO REMOVE FROM THE ELBOW FITTINGS. DO NOT USE EXCESSIVE FORCE TO REMOVE THE HOSES FROM THE WATER TANKS AS THIS MAY DAMAGE THE SEALS.



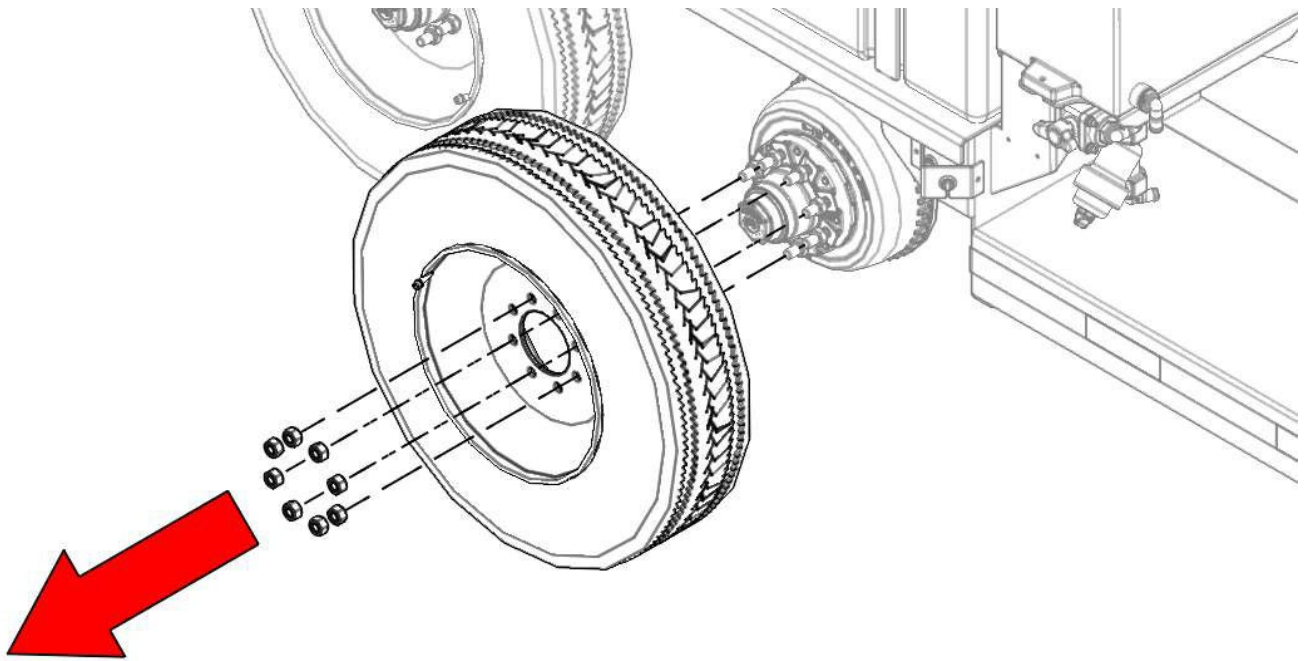
10. Remove the water tanks. Use a suitable lifting device. Empty water tank weighs approximately 90 lb (41 kg).



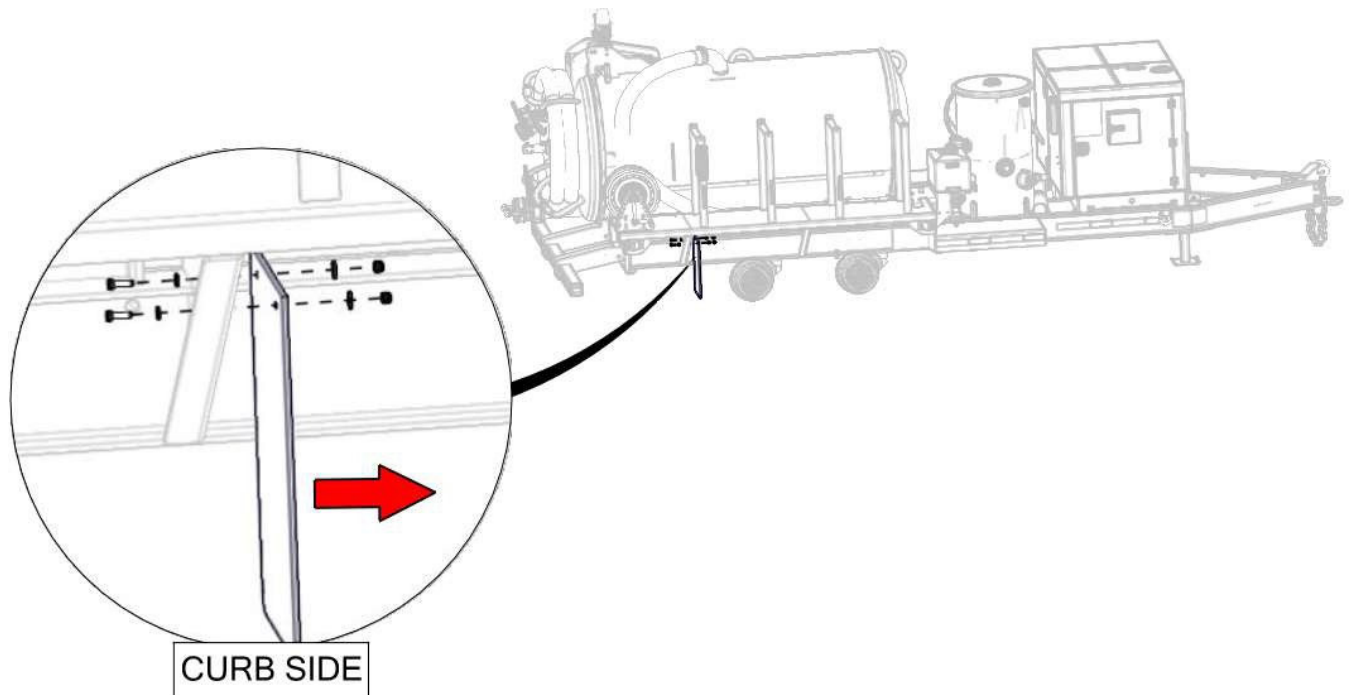
11. Use suitable lifting device. LP 873 trailers weigh approximately 8,500 lb (3855 kg), MC 873 trailers weigh approximately 9,500 lb (4310 kg). Use suitable blocking.



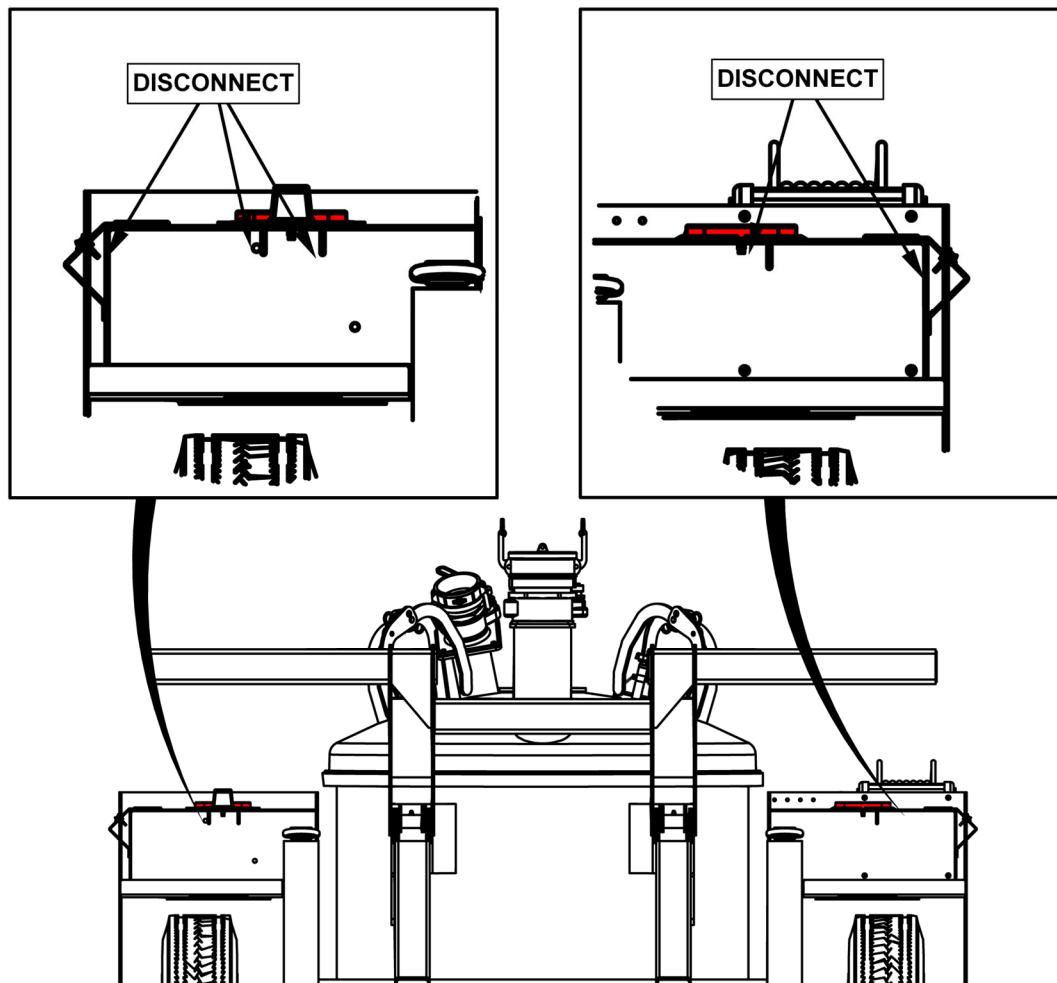
12. Use a 1-1/8" socket to loosen 32 lug nuts and remove all (4) tires. Retain lug nuts for future installation. Use a suitable lifting device. Wheels weigh approximately 55 lb (25 kg).



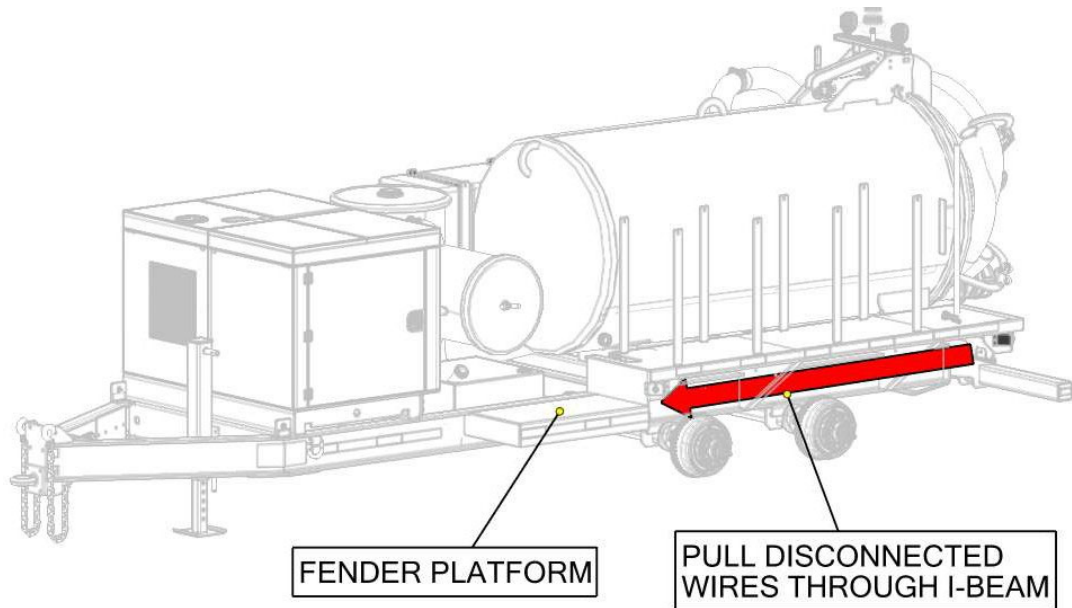
13. Use a 3/8" (9.525 MM) socket to remove the mud flaps from both sides of the trailer (Curb Side shown). Retain the fastening hardware and mud flaps for future installation.



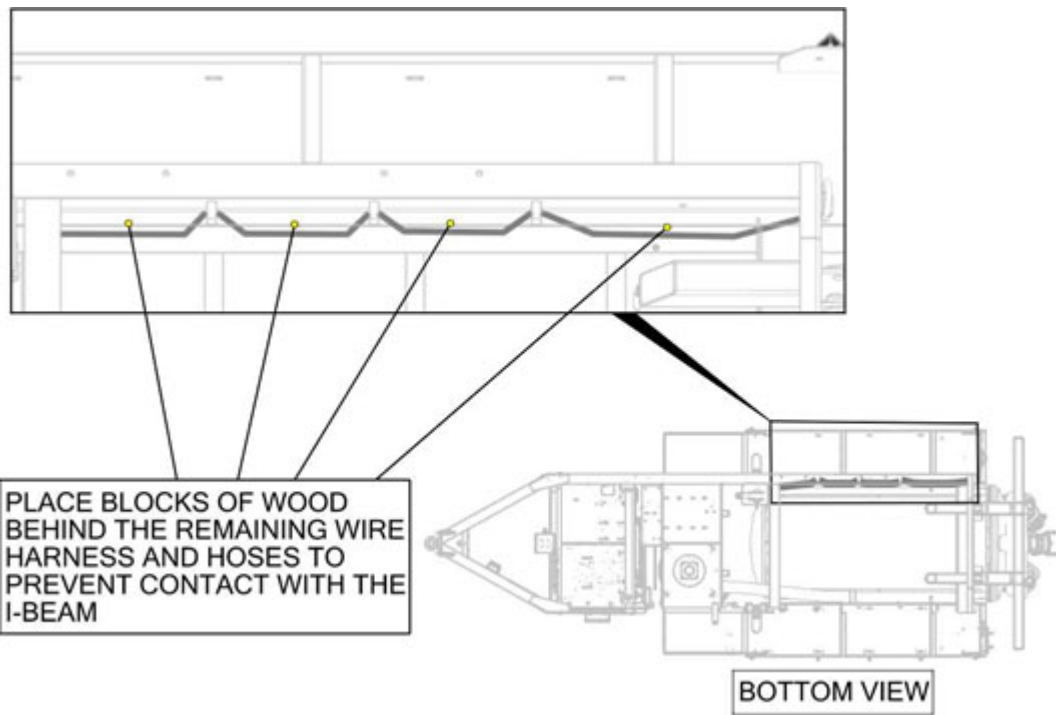
14. Disconnect the brake light and marker light wiring from both sides of the trailer. Disconnect the license plate light on the street side of the trailer.



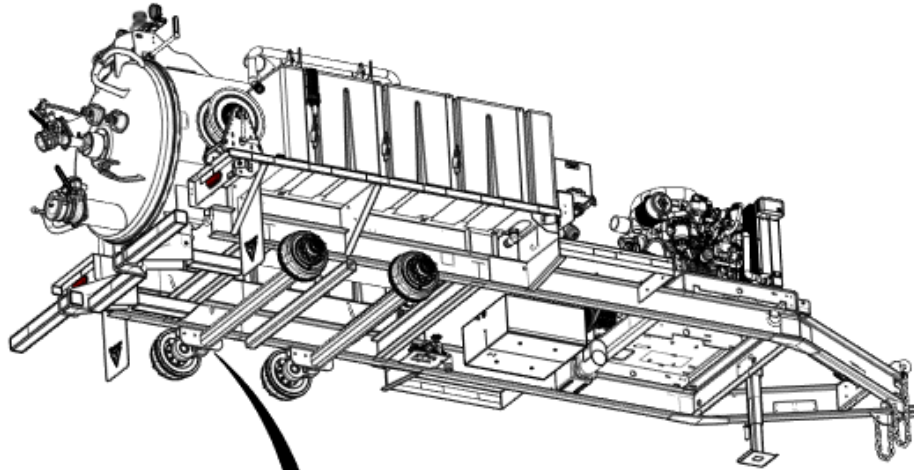
15. Pull the disconnected light wires through the I-beam and place on the fender platform to prevent damage from the upcoming torch cutting and welding operations.



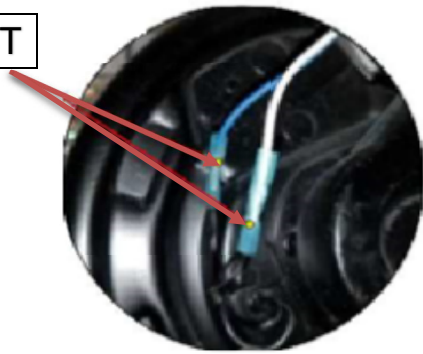
- 16.** Pull remaining hoses and wires away from the I-beam on the street side. Use blocks of wood to keep the hoses and wires from contacting the I-beam and prevent damage from heat generated by torch cutting and welding operations.



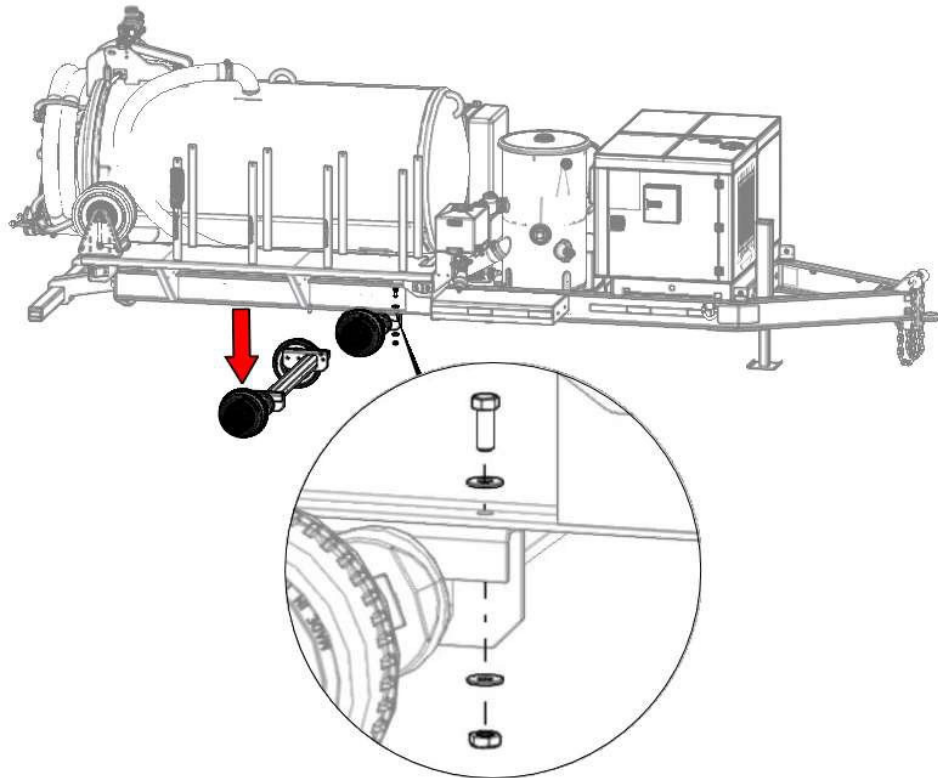
- 17.** Disconnect the wires from each brake drum.



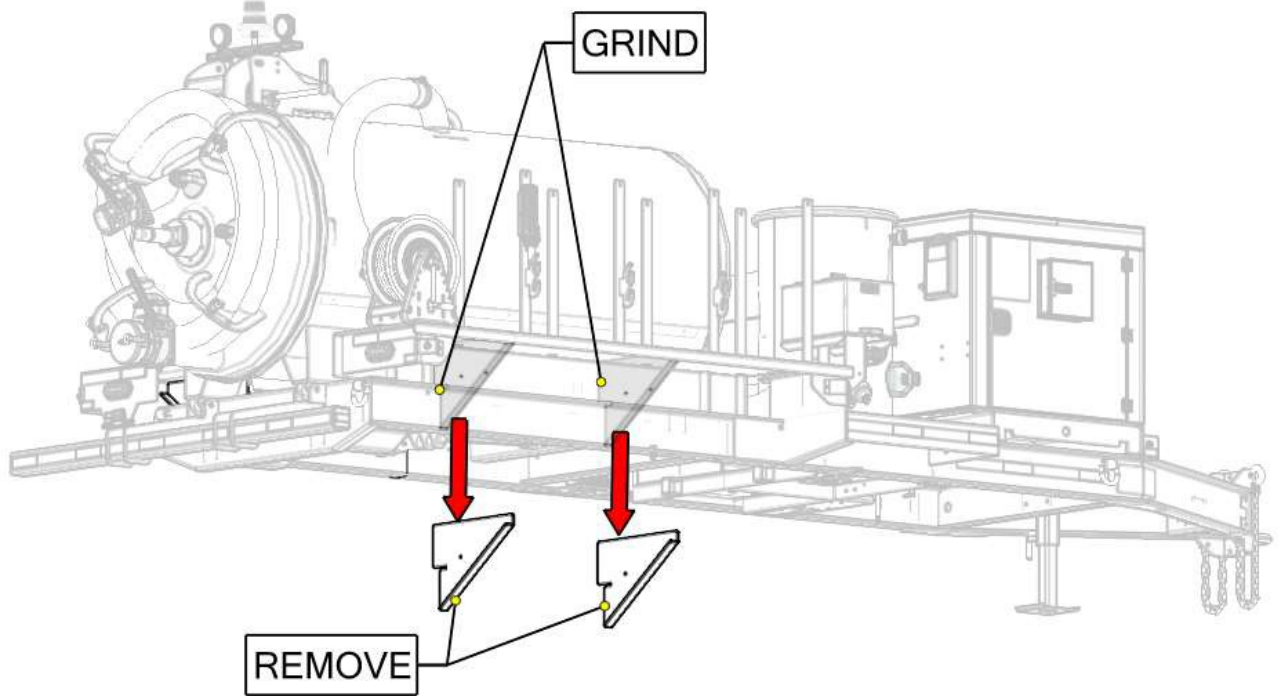
DISCONNECT



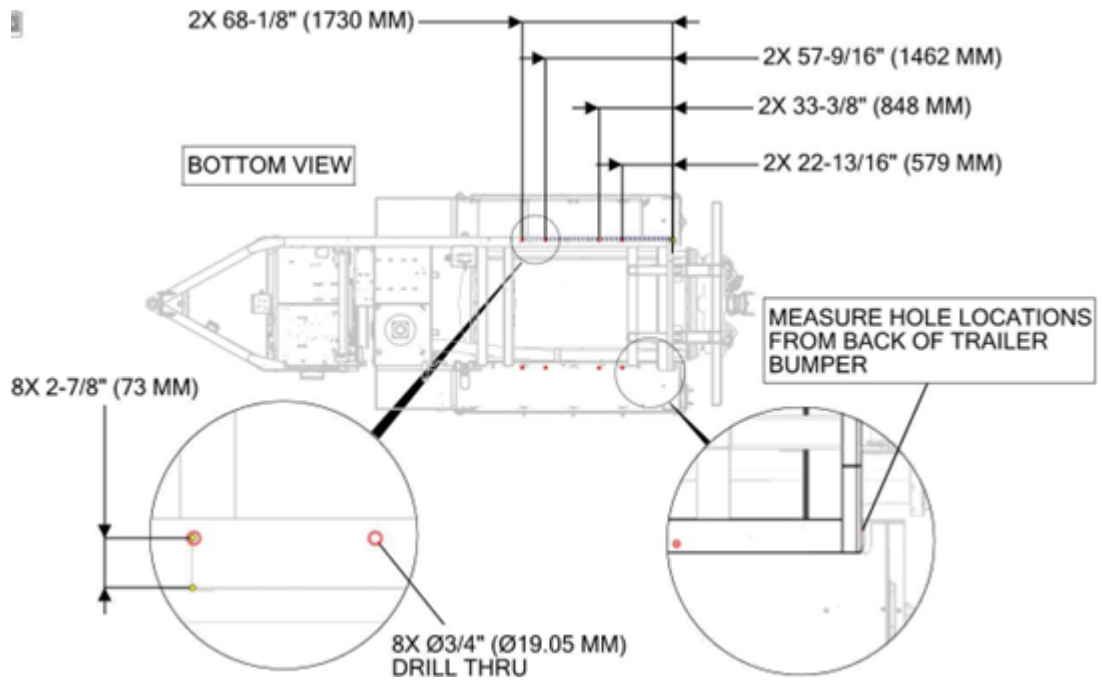
18. Use a 15/16" (24 mm) socket to remove the axles from the trailer. Retain hardware for future installation. Use suitable lifting device for each axle. Each axle weighs approximately 390 lb (177 kg).



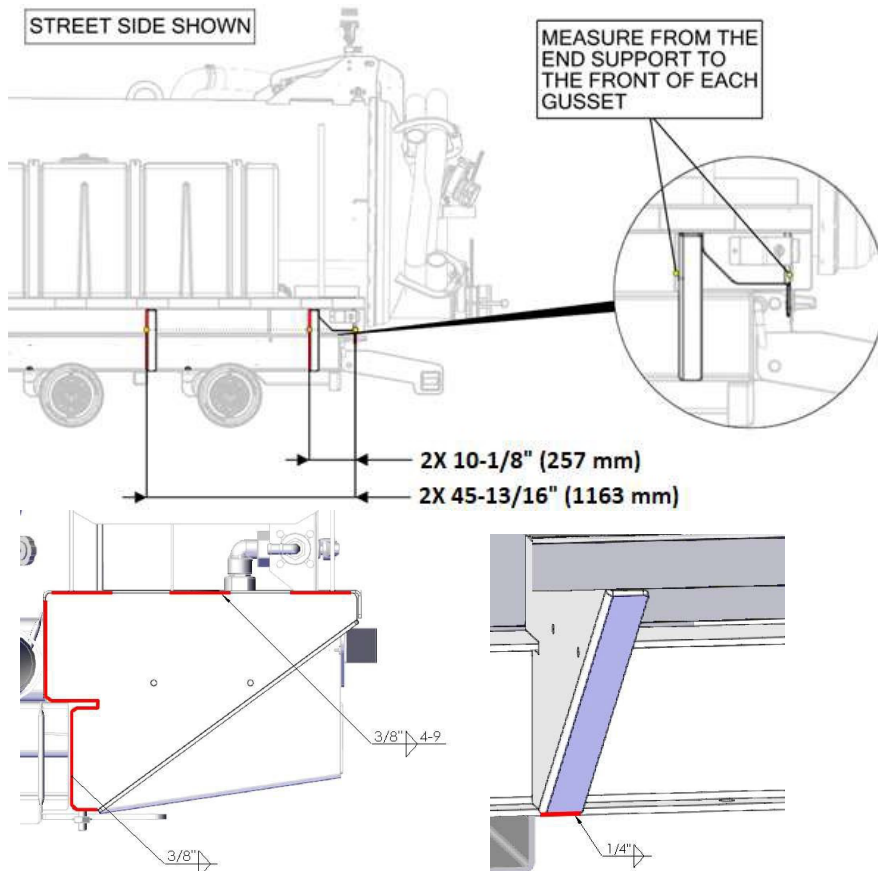
19. Use a cutting torch to remove the (4) gussets from both sides of the trailer (Curb Side shown). Grind away residual slag from the trailer frame.



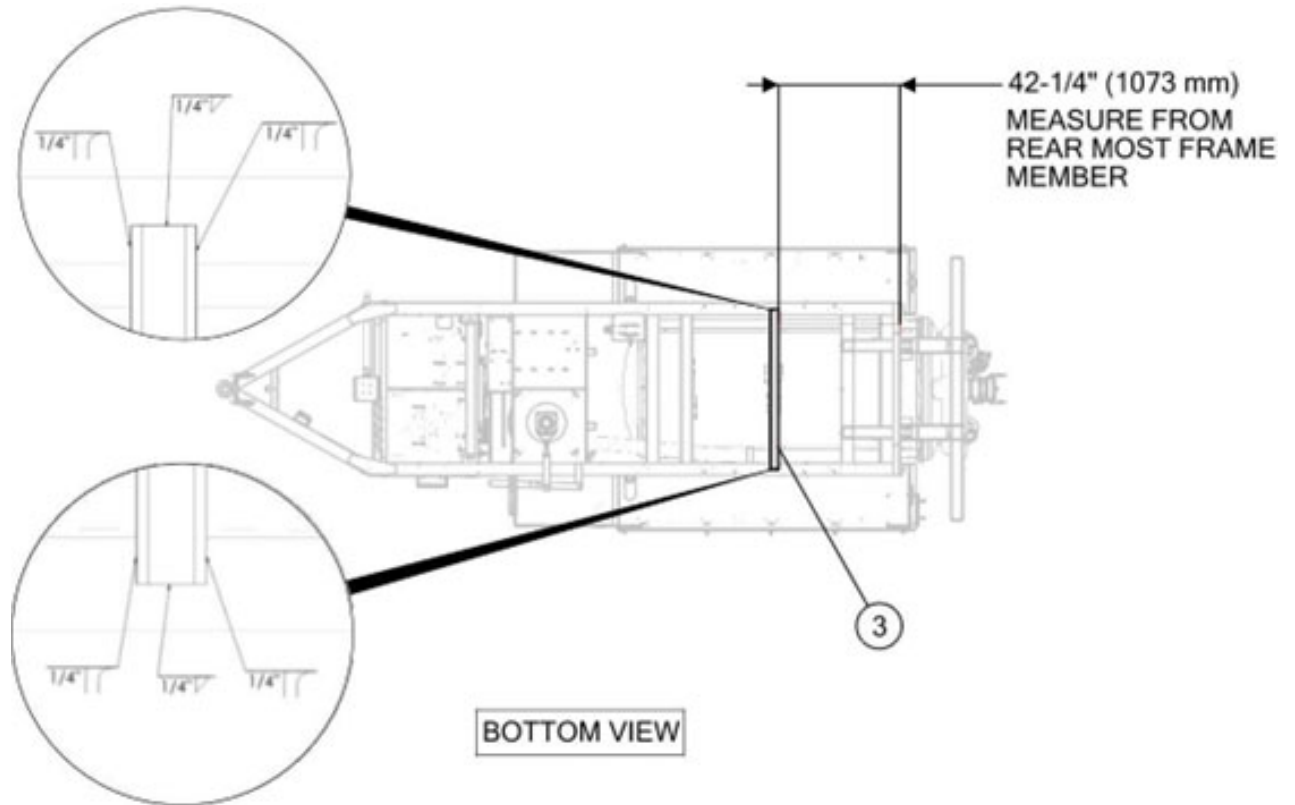
20. Measure and drill new axle bracket holes through the bottom of the I-beam on both sides of the trailer as shown.



21. Measure for new gusset locations and weld as shown on both sides of the trailer. Ref 1 and 2, Fig. 1.

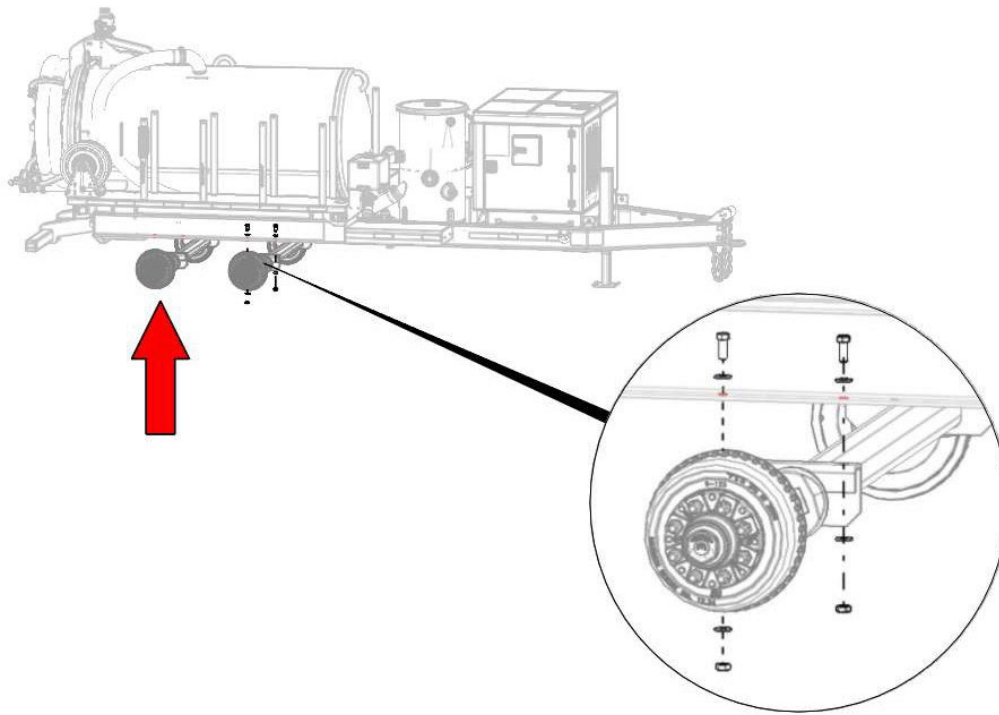


22. Weld on the 3" scissor tube as shown, Ref. 3, Fig. 1.

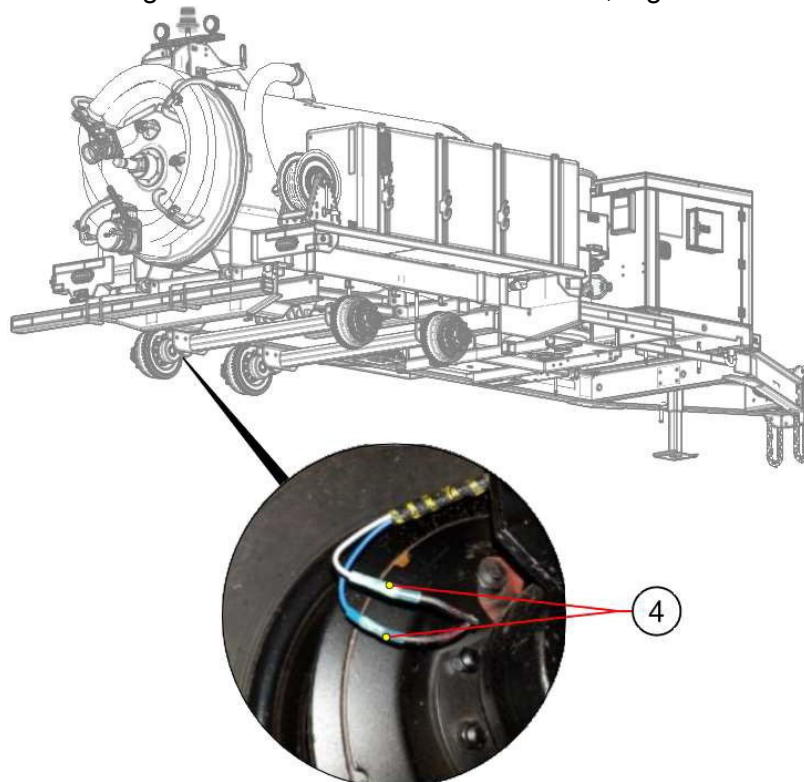


23. Grind all welds and weld splatter. Clean all surfaces on the I-beam, gussets, scissor bar, and fenders. Paint all exposed surfaces. Allow paint to dry thoroughly.

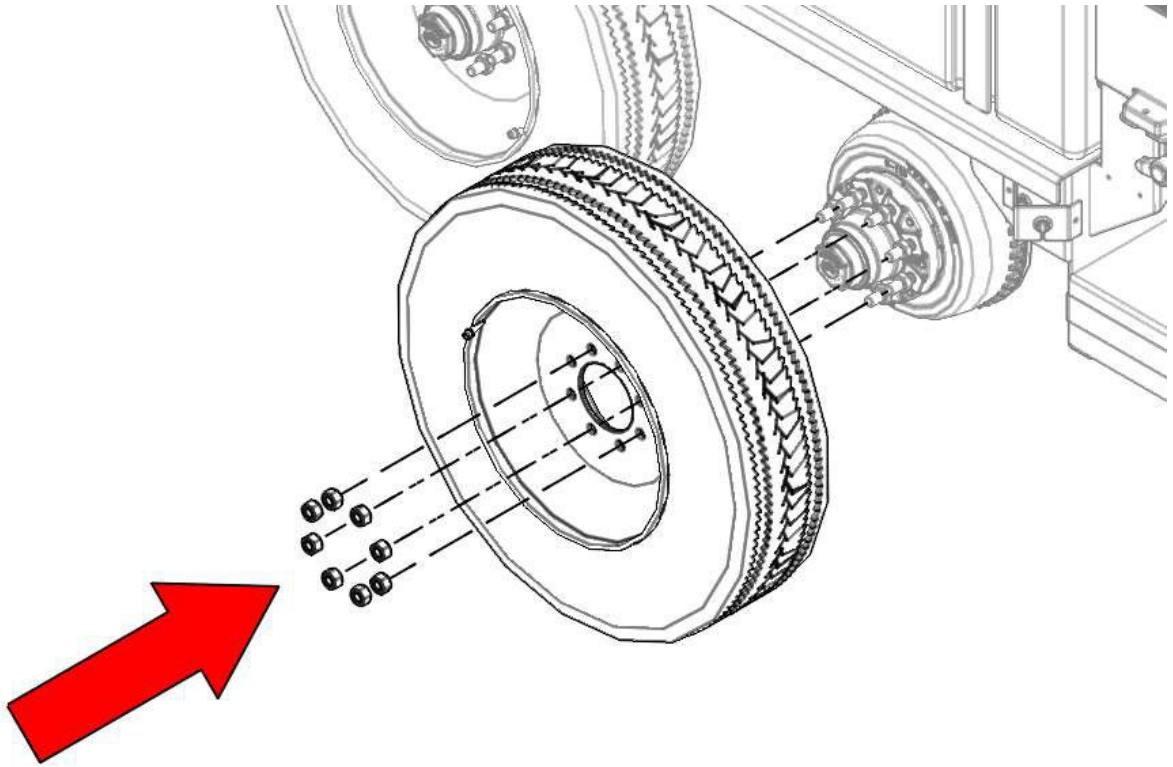
24. Use a 15/16" (24 mm) socket with the fasteners retained from Step 18 to attach the axles in the new locations. Use a suitable lifting device for lifting axles. Each axle weighs 390 lb (177 kg).



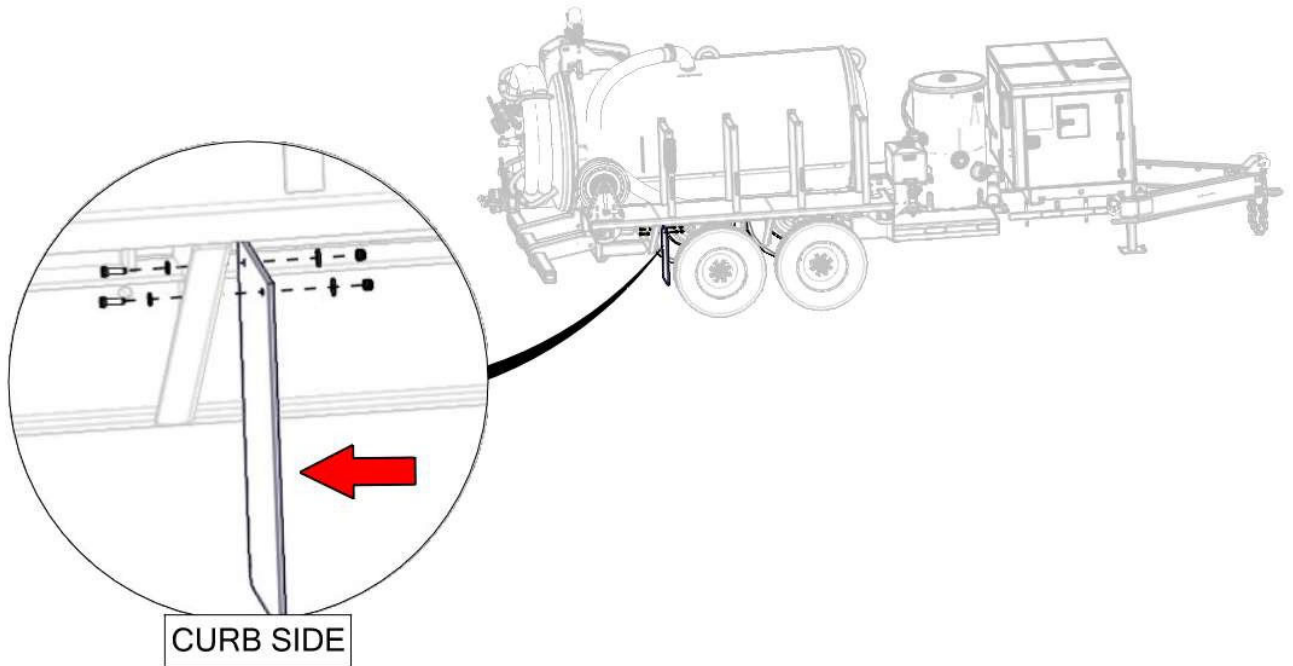
25. Reconnect brake wires using heat shrink butt connectors Ref. 4, Fig. 1.



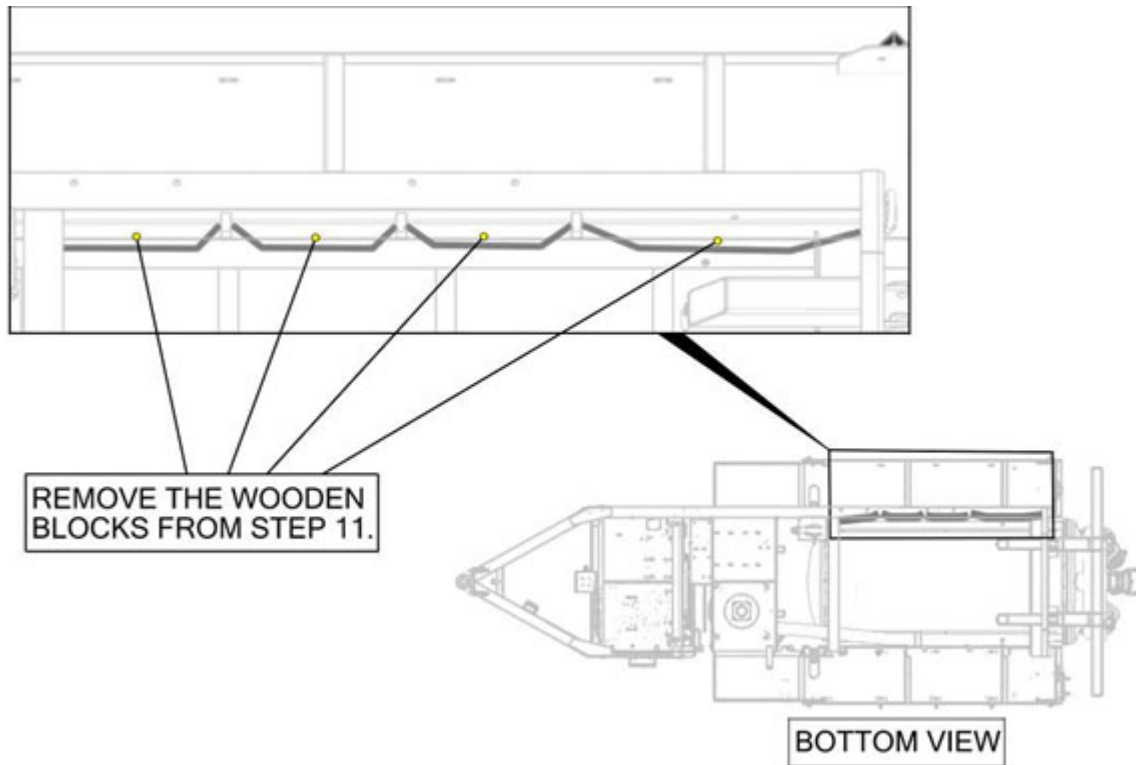
26. Use a 1-1/8" socket and the lug nuts retained from Step 12 to reinstall all (4) tires. Tighten lug nuts to a max torque of 325 ft-lb (441 Nm).



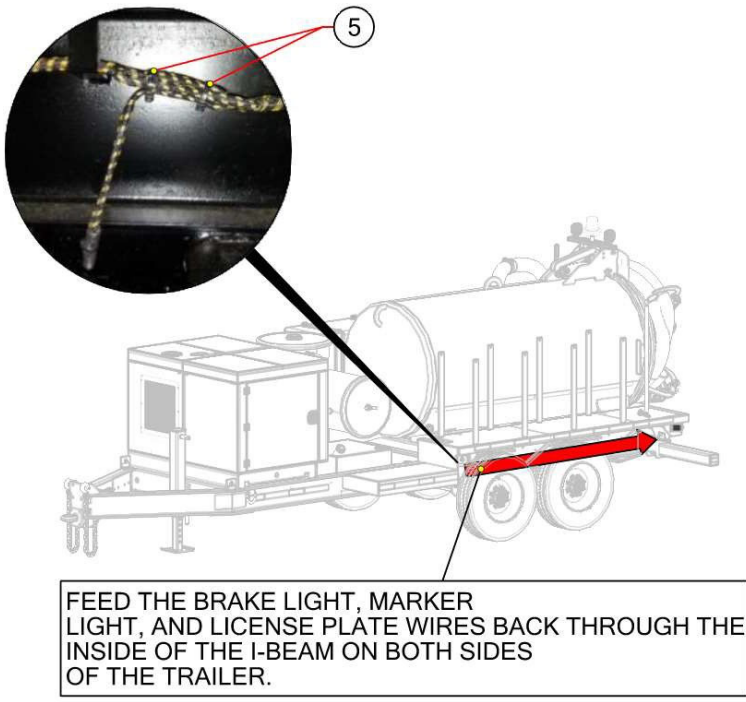
27. Reinstall the mud flaps on both sides of the trailer using the hardware retained from Step 13.



28. Remove the wooden blocks from behind the hoses and wires in the street side I-beam.

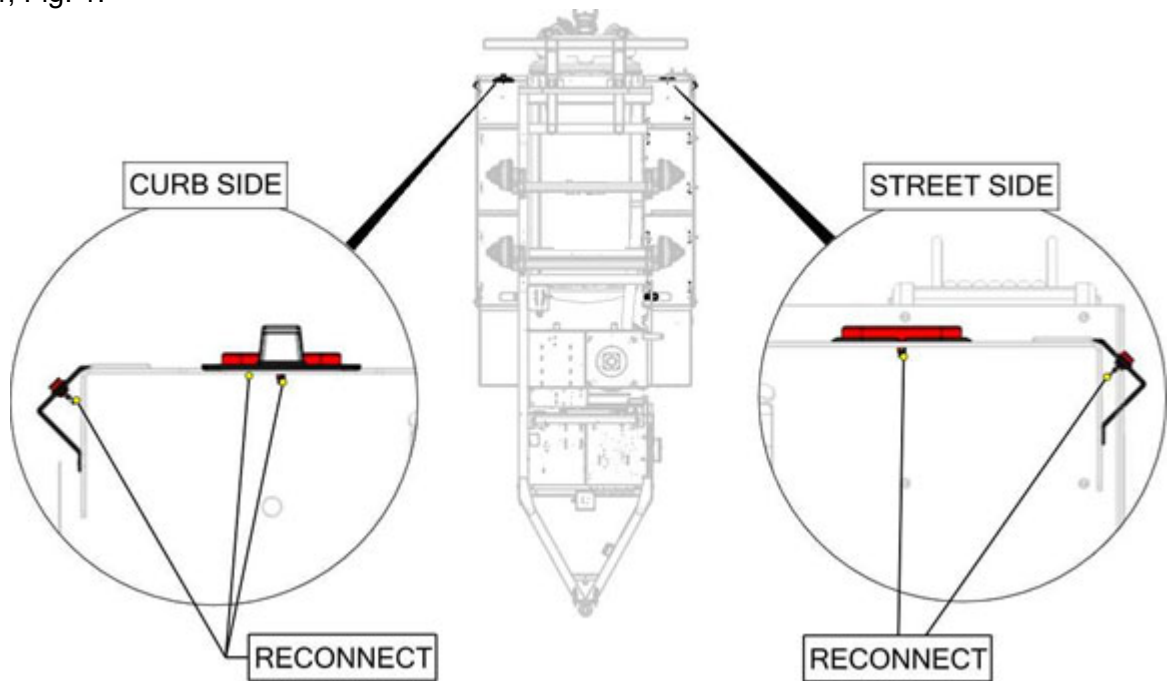


29. Feed the brake light, marker light, and license plate wires back through the I-beam on both sides of the trailer. Zip tie excess wire to the main wire harness Ref 5, Fig. 1.

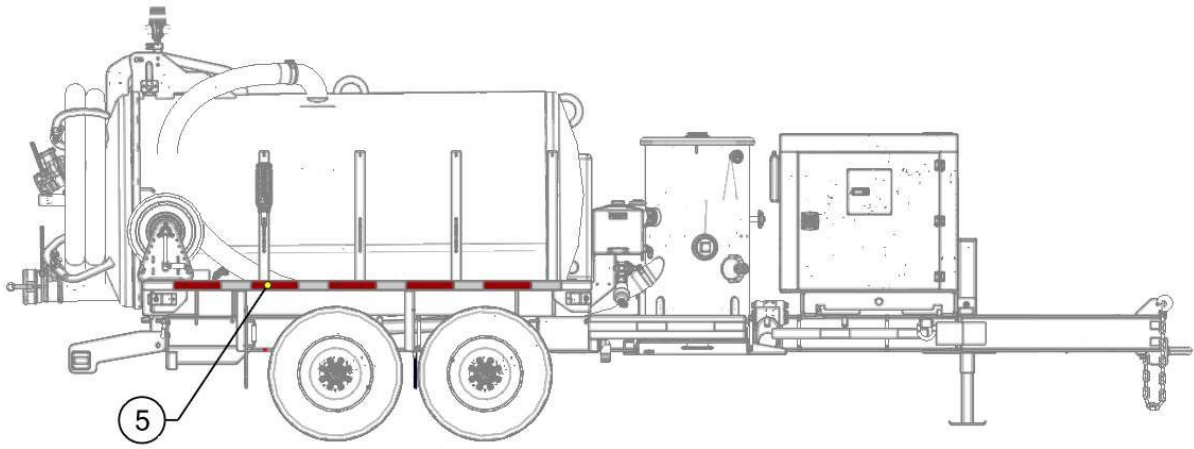


ess Ref 5, Fig 1.

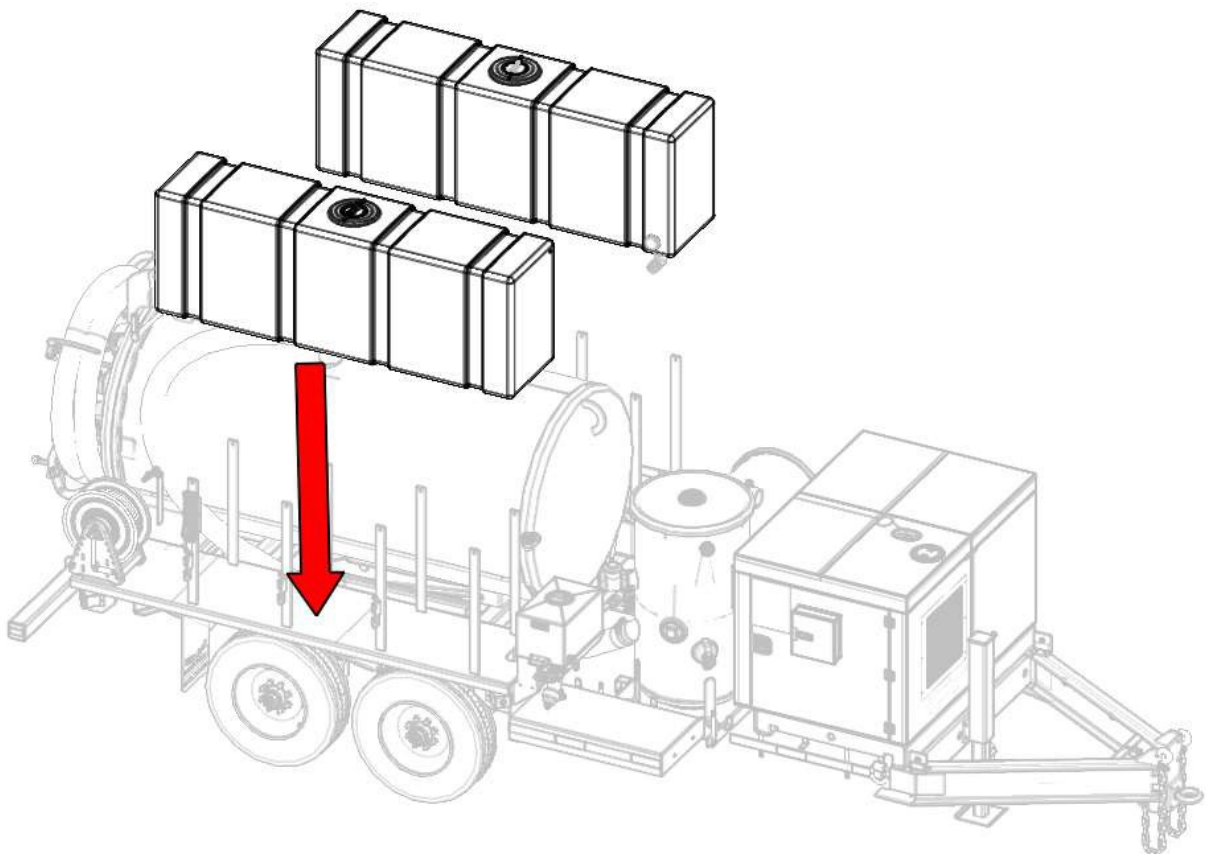
30. Reconnect the brake light, marker light, and license plate wires using heat shrink butt connectors. Ref. 4, Fig. 1.



31. Clean area where the conspicuity tape will be installed with light soap and water. Reinstall the conspicuity tape on fenders on both sides of the trailer (curb side shown) Ref 6, Fig. 1.

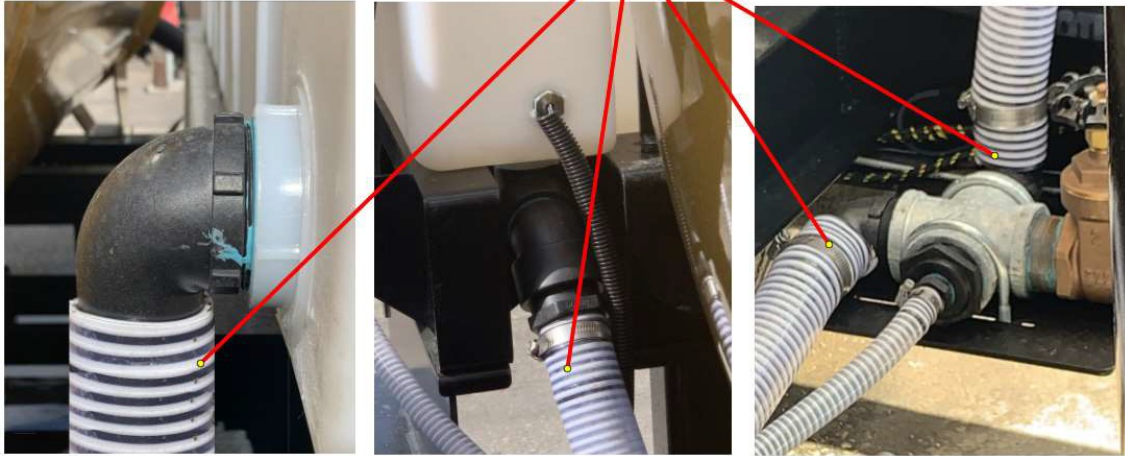


32. Place the (2) water tanks back into position on the fenders.

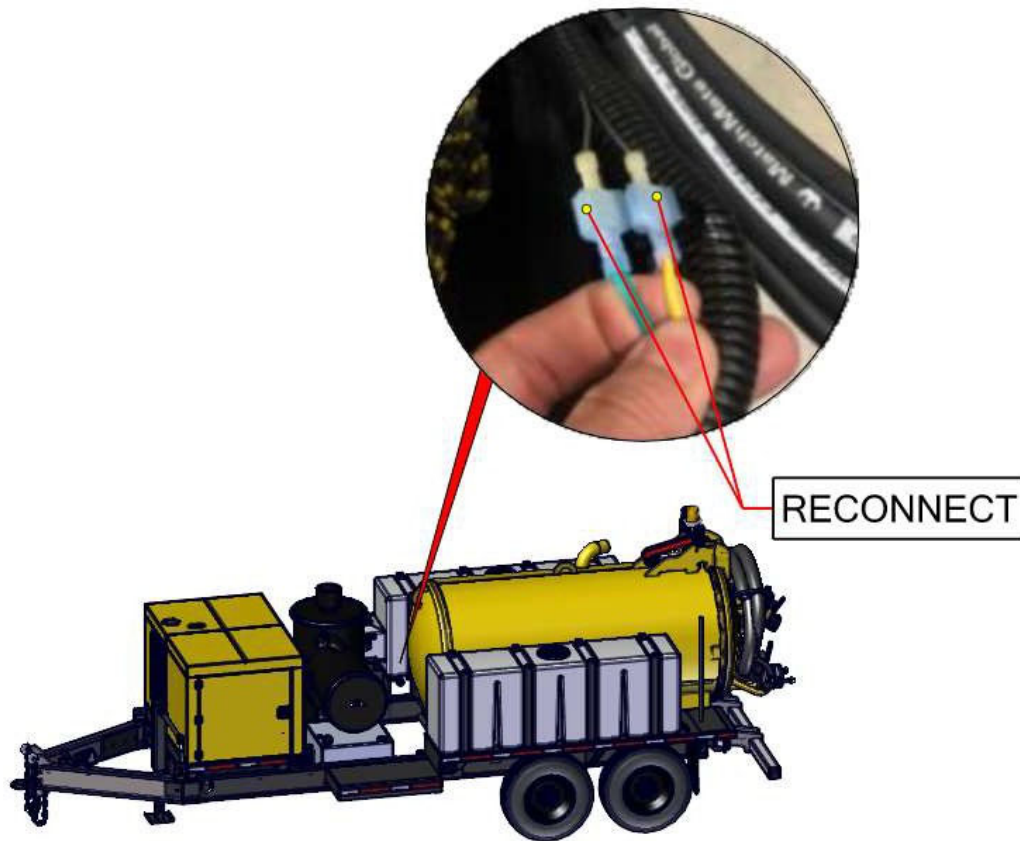


33. Install the replacement 2" water tank hoses and hose clamps.

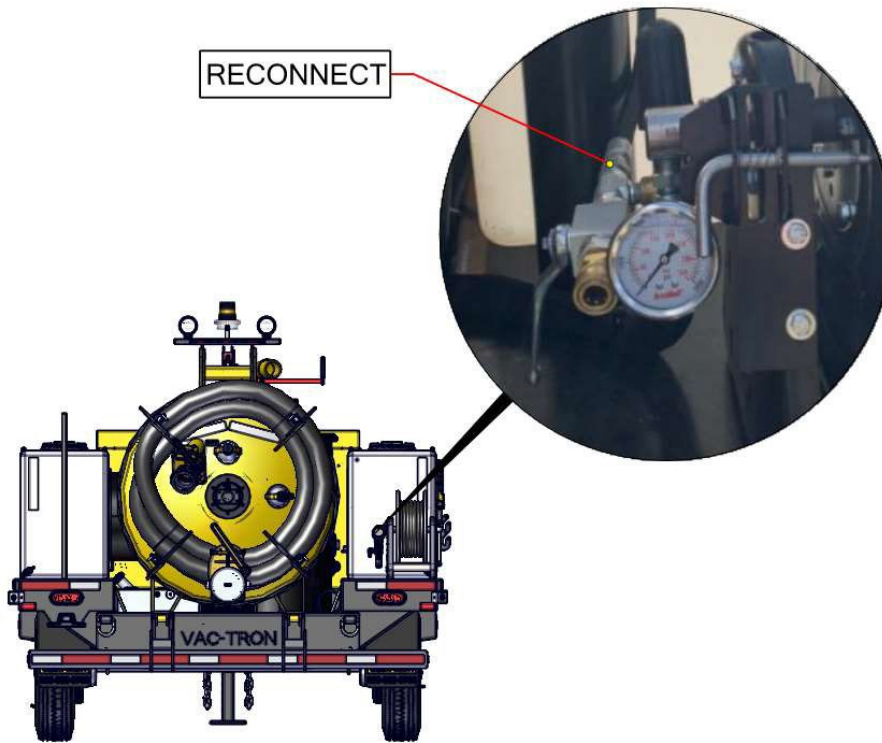
ATTACH THE REPLACEMENT 2" HOSES AND HOSE CLAMPS TO THE WATER TANK AND 4-WAY VALVE FITTINGS. HEAT THE ENDS OF THE HOSES WITH A PROPANE TORCH THEN APPLY PENETRATING GREASE OR SIMILAR LUBRICANT TO ALLOW THE HOSES TO SLIDE ONTO THE FITTINGS MORE EASILY. TIGHTEN THE HOSE CLAMPS AND ATTACH NEW ZIP TIES.



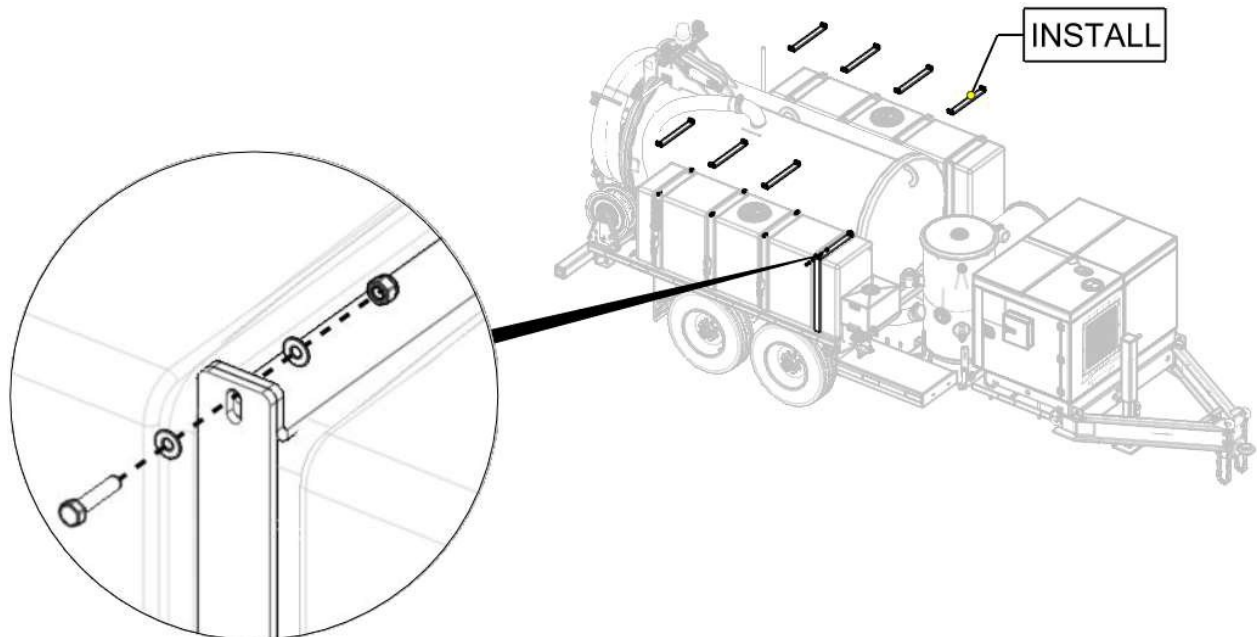
34. Reconnect the float valve wires on the curb side water tank.



35. Reconnect the overflow hose to the ball valve on the curb side of the water tank.

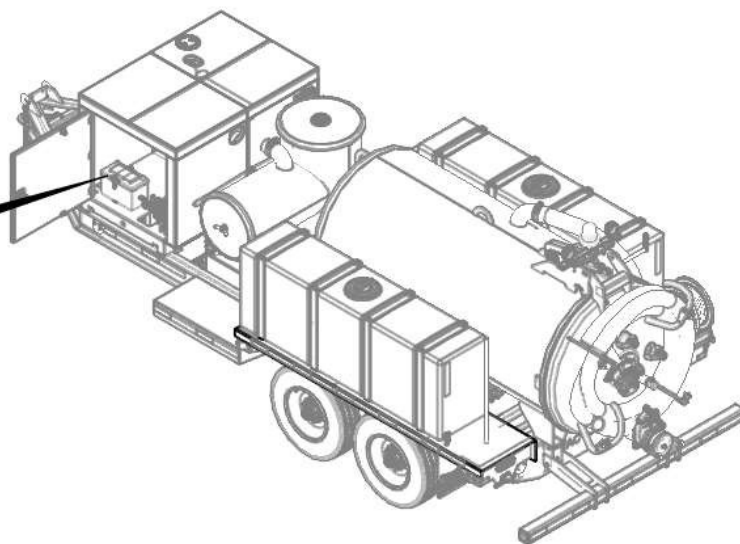


36. Reinstall the (8) water tank strap ties with the hardware retained from Step 5.

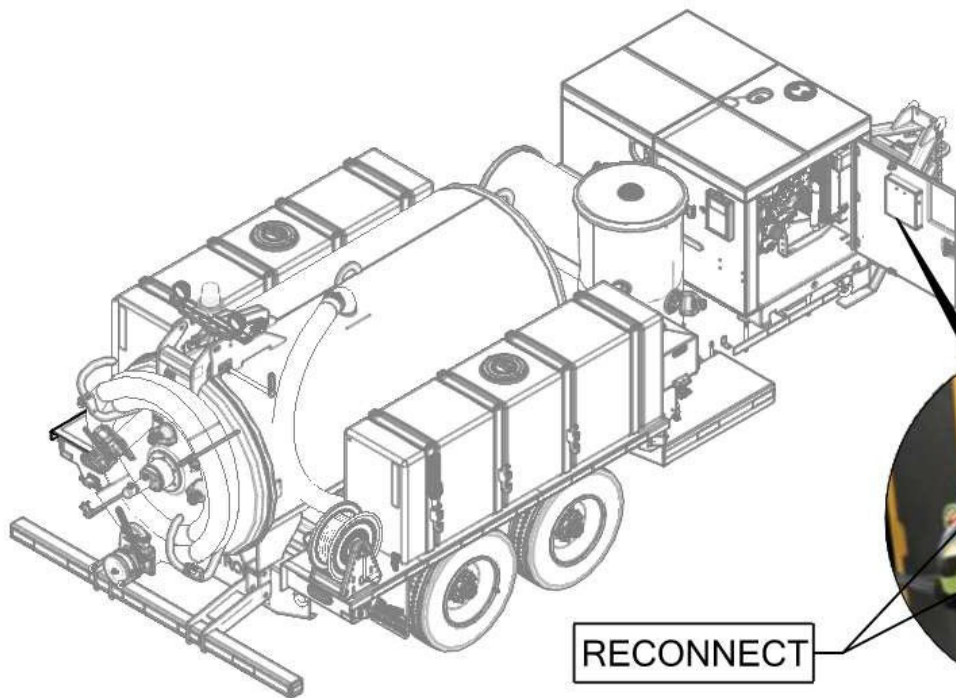


37. Reconnect wires to the positive battery terminal.

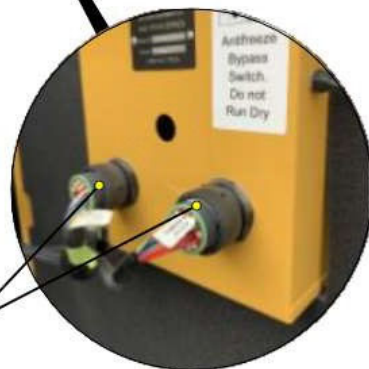
RECONNECT



38. Reconnect the Control Panel.



RECONNECT



AFFECTED MACHINES – VVK01-0002

MODEL	VIN	SERIAL/UNIT	MODEL	VIN	SERIAL/UNIT
LP873SGT			LP873SGT		
LP873SDT			MC873SDT		
LP873SDT			LP873SDT		
LP873SDT			LP873SDT		
			LP873SDT		
LP873SDT			LP873SDT		
LP873SDT			LP873SDT		
LP873SDT			LP873SDT		
LP873SDT			LP873SDT		
LP873SDT			LP873SDT		
LP873SDT			LP873SDT		
LP873SDT			MC873SDT		
LP873SDT			LP873SDT		
LP873SDT			LP873SDT		
LP873SDT			LP873XDT		
LP873SGT			LP873SDT		
LP873XDT			LP873SDT		
LP873SDT			LP873SDT		
LP873SDT			LP873SDT		
LP873SDT			MC873SDT		
MC873SDT			LP873SDT		
LP873XDT			LP873SDT		
MC873SDT			LP873SDT		
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LP873SDT			LP873SDT		
LP873SGT			LP873SDT		
LP873SGT			LP873SDT		
LP873SGT			LP873SGT		
LP873SGT			LP873SDT		
LP873SGT			LP873SDT		
LP873SDT			LP873SDT		
LP873SGT			LP873SGT		
LP873SGT			LP873SDT		
MC873SDT			LP873SDT		

AFFECTED MACHINES – VVK01-0002		
MODEL	VIN	SERIAL/UNIT
LPSGT		
LPSGT		
LPSDT		
LPSDT		
LPSDT		
LPSDT		
LPSDT		
LPSDT		
LPSDT		
LPSDT		
LPSGT		
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LP873XDT		

Figure 1

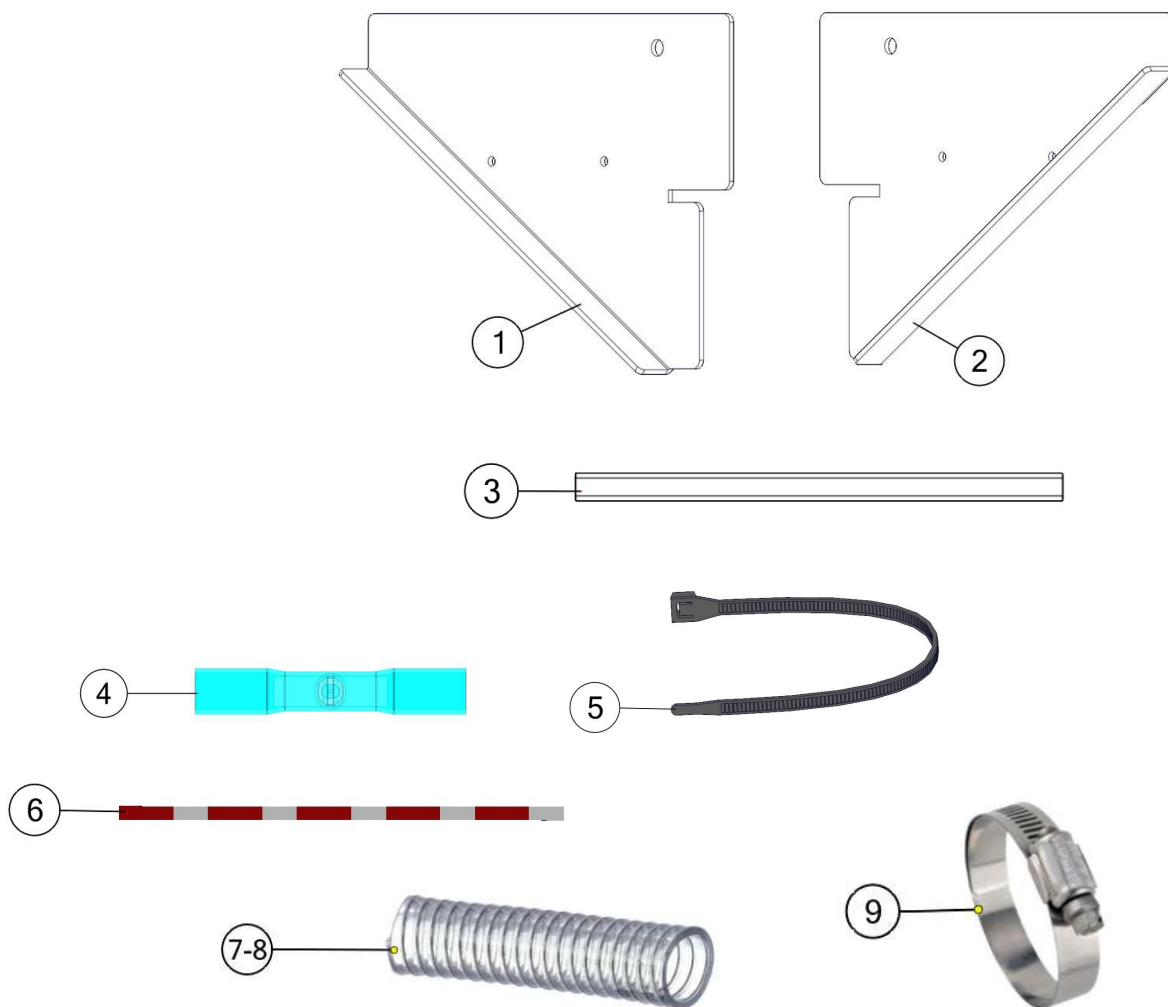


FIGURE 1 Parts List			
REF. NO.	PART NO.	DESCRIPTION	QTY.
1	B250-4031	HEAVY FENDER GUSSET, RS	2
2	B250-4032	HEAVY FENDER GUSSET, CS	2
3	S300-0316-0B	3" SCISSOR TUBE3	1
4	P-2369	16-14 HEAT SEAL BUTT CONNECTOR, BLUE	18
5	P-1301	ZIP TIE	15
6	P-0485	2" (2.5 cm) WIDE, 101" (256.5 cm) LONG CONSPICUITY TAPE	2
7	P-1265	2" CLEAR SPIRAL FIBER HOSE 54" LENGTH	1
8	P-1265	2" CLEAR SPIRAL FIBER HOSE 24" LENGTH	1
9	P-5884	(1-5/8"-2-7/16") STAINLESS STEEL HOSE CLAMP	4