



**Vermeer MV Solutions, Inc.**

Trenchless  
7835 Augusta Rd, Piedmont, SC 29673

**FIELD CAMPAIGN KIT #: VMV000018                      DATE: 18 April 2023**

**For Dealer Reference: Service Bulletin #: SMV2023-006**

**Tank Rear Door Fuse Update Kit**

<b>CAMPAIGN TYPE:</b>	Mandatory – Product Safety
<b>CAMPAIGN CATEGORY:</b>	Kit and Bulletin

MACHINE/ ATTACHMENT MODEL(S):	SERIAL NUMBERS:		Kit Version
	Included	Excluded	
ATV1830	See attached listing on pages 7 – of this kit for specific VIN and Serial/Unit numbers	None	VMV01
ATV1850			
CS1233SD			
CS1270GT			
CS1270SGT			
CS1273GT			
CSGT			
CV1273SGT			
CVGT			
CVGTLC			
CVSGT			
CVSGTB			
HTV1830			
LP1055SDT			

LP1073SDT			
LP1073XDT			
LP1273SDSK			
LP1273SDT			
LP1273SGT			
LP1273XDT			
LPSDT			
LPSGT			
MC1273SDSK			
MINICOMBO			



**Purpose:** This kit includes parts and instructions to install hydraulic velocity fuses into the tank rear door cylinders.

**Special tools and conditions:**

- None

**Shutdown procedure (ATV, CV, HTV, LP, and MC units)**

**Stopping the machine**

For your safety and the safety of others, use the shutdown procedure before servicing, cleaning, unclogging, or inspecting the machine.

NOTE: Freezing Conditions require additional procedures. Refer to “Shutdown – Freezing Conditions”, page 25-2 of the operator’s manual.

Step 1: Make sure end of vacuum hose is clear of all spoils, debris and other materials with no vacuum pressure built up in tank.

Step 2: Turn *water pump switch* to **off**.

Step 3: Push *throttle switch* left several times to slow engine. Idle engine five minutes to allow vacuum pump to cool down.

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

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



**WARNING:** If pressure is not relieved, serious injury may occur when attempting to disconnect water lines. Make sure water tools are pointed in a safe direction.

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

Step 7: Drain and wash out bag house.

## Shutdown procedure (CS units only)

### Stopping the machine

For your safety and the safety of others, use the shutdown procedure before servicing, cleaning, unclogging, or inspecting the machine.

Step 1: Make sure end of vacuum hose is clear of all spoils, debris and other materials with no vacuum pressure built up in tank.

Step 2: Turn *throttle control* left several times to slow engine. Idle engine five minutes to allow vacuum pump to cool down. This helps to prevent the build-up of condensation.

Step 3: Turn the *key switch* to **off** to shut off engine.

Step 4: Drain filter housing.

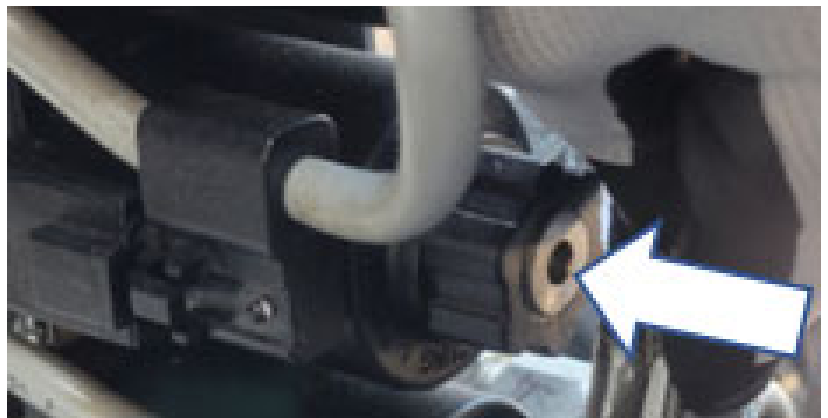
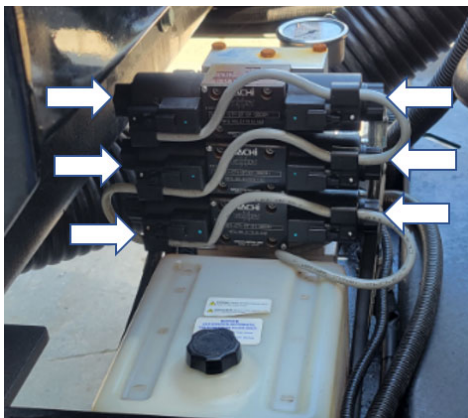
A variation of the above procedure may be used if instructed within the manual, or if an emergency requires it.



**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.

**Procedure 1:**

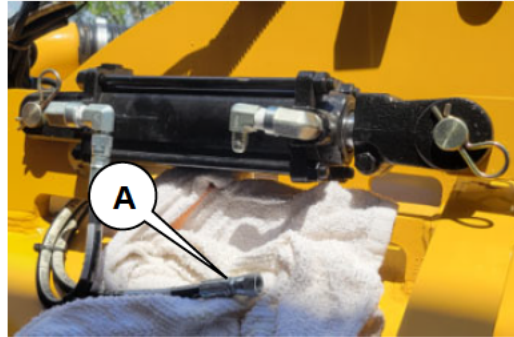
1. Refer to Figures 1 for parts list.
2. Depress each of the override buttons on the solenoid of the hydraulic pump/motor assembly to relieve the high pressure of the hydraulic lines. Use a 90° pick or similar tool to fit into tight spaces if necessary.



3. The buttons should look like the picture below once the pressure has been relieved.



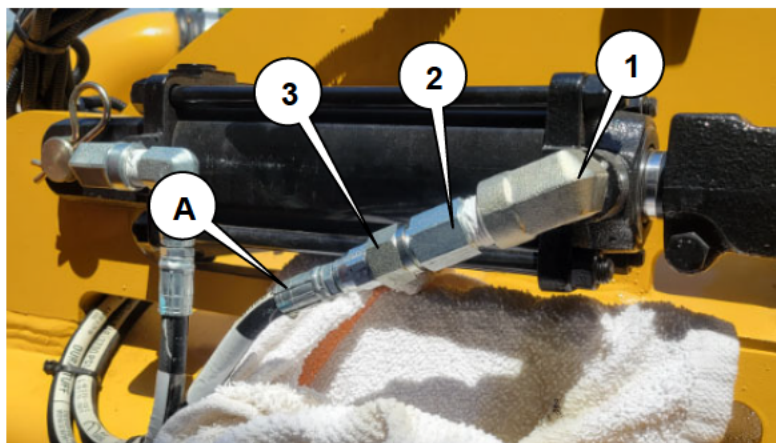
4. Place absorbent material below the cylinder and use a suitable container to collect hydraulic fluid. Remove the hydraulic hose (A) from the rear position of the cylinder (rod end).



5. Remove the fitting (B) from the cylinder.



6. Apply PTFE tape around the threads of the 90° fitting **(1)**(p/n 135500787) and install into the cylinder. Hand-tighten the fitting, then turn an additional 2-3 turns (54 ft-lb max or 73 Nm max torque) and position as seen in the image below.
7. Apply PTFE tape around the threads of the velocity fuse **(2)**(p/n 135501026) and install into the 90° fitting **(1)**. Hand-tighten the fitting, then turn an additional 2-3 turns (54 ft-lb max or 73 Nm max torque).
8. Install and tighten the adapter fitting **(3)**(p/n 135500293) into the velocity fuse **(2)**. Hand-tighten the fitting and torque to 36-38 ft-lb or 49-53 Nm.
9. Reconnect and tighten the hydraulic hose **(A)**. Hand-tighten the fitting then torque to 20-22 ft-lb or 27-30 Nm.

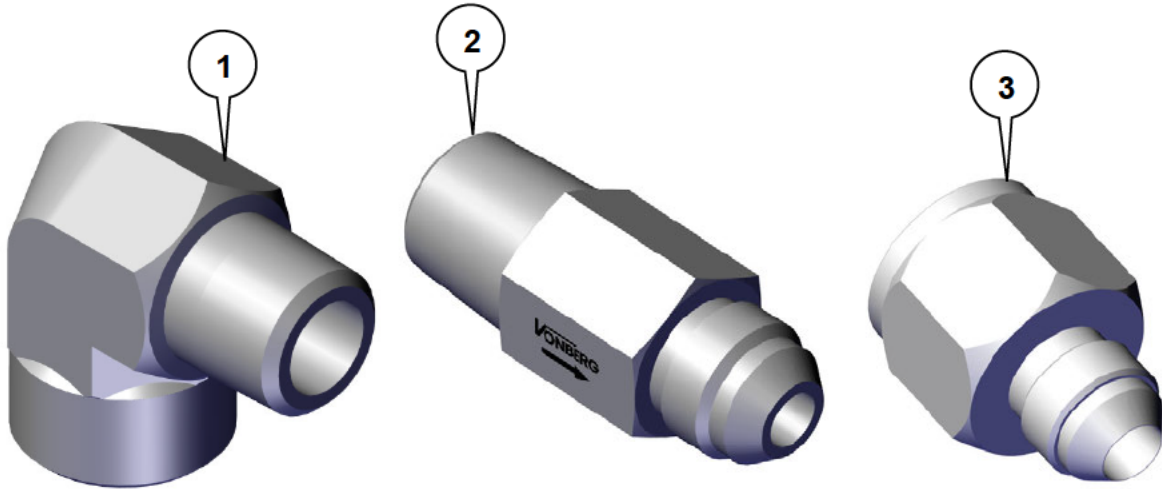


10. Check to ensure all fittings are tight and there are no leaks.
11. Repeat all steps for the cylinder on the opposite side of the tank.
12. Check hydraulic fluid level and add if needed.
13. Use soap and water to clean up any hydraulic oil spills.
14. Refer to the operator's manual for proper procedure to open and close the door. Make sure the door functions properly.

MODEL	VIN	SERIAL/UNIT	MODEL	VIN	SERIAL/UNIT
ATV1830	REDACTED	141040	CVGT	REDACTED	191645
ATV1830	REDACTED	141118	CVGT	REDACTED	200070
ATV1830	REDACTED	141127	CVGT	REDACTED	200072
ATV1830	REDACTED	141131	CVGT	REDACTED	200110
ATV1830	REDACTED	141216	CVGT	REDACTED	200111
ATV1850	REDACTED	121244	CVGT	REDACTED	200291
ATV1850	REDACTED	121247	CVGT	REDACTED	200515
ATV1850	REDACTED	121267	CVGTLC	REDACTED	200361
ATV1850	REDACTED	121284	CVSGT	REDACTED	191769
ATV1850	REDACTED	121303	CVSGT	REDACTED	191831
ATV1850	REDACTED	121306	CVSGT	REDACTED	200029
ATV1850	REDACTED	131347	CVSGT	REDACTED	200155
ATV1850	REDACTED	141167	CVSGT	REDACTED	200230
ATV1850	REDACTED	121224	CVSGT	REDACTED	200297
ATV1850	REDACTED	121225	CVSGT	REDACTED	200631
ATV1850	REDACTED	121226	CVSGTB	REDACTED	181117
ATV1850	REDACTED	121227	HTV1830	REDACTED	141031
ATV1850	REDACTED	121228	HTV1830	REDACTED	141090
ATV1850	REDACTED	121245	HTV1830	REDACTED	141403
ATV1850	REDACTED	121246	LP1055SDT	REDACTED	121097
ATV1850	REDACTED	121273	LP1055SDT	REDACTED	121208
CS1233SD	REDACTED	131270	LP1073SDT	REDACTED	171062
CS1270GT	REDACTED	181135	LP1073XDT	REDACTED	171008
CS1270GT	REDACTED	181076	LP1273SDSK	REDACTED	171185
CS1270SGT	REDACTED	171145	LP1273SDT	REDACTED	171053
CS1273GT	REDACTED	181500	LP1273SDT	REDACTED	171433
CS1273GT	REDACTED	181705	LP1273SGT	REDACTED	171096
CSGT	REDACTED	200682	LP1273SGT	REDACTED	171097
CSGT	REDACTED	191288	LP1273SGT	REDACTED	151258
CSGT	REDACTED	191372	LP1273XDT	REDACTED	191178
CSGT	REDACTED	191830	LPSDT	REDACTED	191614
CSGT	REDACTED	200131	LPSDT	REDACTED	191653
CSGT	REDACTED	200269	LPSGT	REDACTED	200181
CSGT	REDACTED	200379	MC1273SDSK	REDACTED	171543
CSGT	REDACTED	200683	MC1273SDSK	REDACTED	171544
CV1273SGT	REDACTED	181524	MC1273SDSK	REDACTED	181062
CVGT	REDACTED	191289	MINICOMBO	REDACTED	191393
CVGT	REDACTED	191643	MINICOMBO	REDACTED	200475
CVGT	REDACTED	191644		REDACTED	

UNIT OWNER COPY:  
 Insert in parts manual  
 for future reference.

**Figure 1**



**Figure 1 parts list**

<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>VMV01 QTY.</u>
1	135500787	1/2 IN MNPT X 1/2 IN FNPT90	2
2	135501026	VELOCITY FUSE, INLINE	2
3	135500293	CRIMP COLLAR -6 SS AIR HOSE	2
		Kit includes all items in Figure 1 parts list.	

1

Figure 2



<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>VMV02 QTY.</u>
1	296287039	WORK COMPLETION CERTIFICATE – SAFETY KIT	1
		Kit includes all items in Figure 2 Parts List	