



Vermeer MV Solutions, Inc.

Trenchless
Piedmont, South Carolina 29673 USA

FIELD CAMPAIGN KIT #: VMV00-0013

DATE:

28 October 2021

For Dealer Reference: Service Bulletin #: SMV2021-009

Red Rear and Side Clearance Lamps and Reflectors Installation Kit

**CAMPAIGN
TYPE:**

Mandatory – Product Safety

**CAMPAIGN
CATEGORY:**

Kit and Bulletin

MACHINE/ ATTACHMENT MODEL(S):	SERIAL NUMBERS:		Kit version
	Included	Excluded	
ECO50	See attached listing on page 7 of this kit for specific VIN and truck VIN	None	IK01
ECO75			
ECO80			
VSK100XT			
VSK30			
VSK500			




Purpose: INADEQUATE REAR AND SIDE REFLECTORS

The red rear clearance lamps, the red rear reflex reflectors, the red rear side clearance lamps and/or the red rear side reflex reflectors of each unit do not include sufficient marker lamps and reflex reflectors. The clearance lamps and reflectors do not meet U.S. or Canada Federal Motor Vehicle Safety Standard (FMVSS/CMVSS) governmental regulation 108 for the United States. When towing or parking the vacuum excavator on public roadways, a crash may occur resulting in **death or serious injury** resulting from a driver(s) of other vehicle(s) not seeing the unit at night or during limited sunlight and striking the vacuum excavator. To reduce the potential of this occurring, red rear clearance lamps, red rear reflex reflectors, red rear side clearance lamps and/or red rear side reflex reflectors will be installed on the vacuum excavator. Property or equipment damage may also occur.

Special tools and conditions:

- Punch, hammer, drill, 3/8-in drill bit

	WARNING: Use the shutdown procedure before attempting to do any of the work described in this kit.
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Stopping the Machine

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

Step 1: Reduce engine speed to idle.

Step 2: Verify all switches are in off/down position.

Step 3: Move reverse flow control to neutral.

Step 4: Allow engine to idle for five minutes before turning it off after full-load operation.

NOTICE: Failure to allow engine to idle for the recommended time may result in turbocharger damage.

Step 5: Turn engine off and remove ignition key.

Step 6: Relieve water pressure from water-assisted tools by squeezing trigger. Disconnect tool(s) from hose.



WARNING: Avoid high pressure water. High pressure water from digging tool or wash wand can penetrate body tissue and result in death or serious injury. Fluid injected under the skin must be removed immediately by a surgeon familiar with this type of injury.

Never point the digging tool or wand at anyone or at any part of the body. Never use the high-pressure wand to clean any part of your body or clothing.

⇒ Unless indicated, new parts from kit have callouts with numbers. Callouts with letters indicate existing parts or general items.

Procedure 1 – Locate and drill holes for mounting bracket (Figure 1)

1. On rear corner of truck, place one face each of the bracket assembly (1) flush with side and rear faces of the truck bed.
2. Adjust bracket assembly (1) vertically to flush with bottom of truck bed as shown.
3. Avoid locating holes that would interfere with structural members.
4. Mark two hole locations (2) on side at least 1 inch apart and one hole location (3) on rear using slots on the bracket assembly as a guide.
5. Set bracket assembly (1) aside and drill 3/8-in holes as marked.
6. Repeat on opposite rear corner of truck.

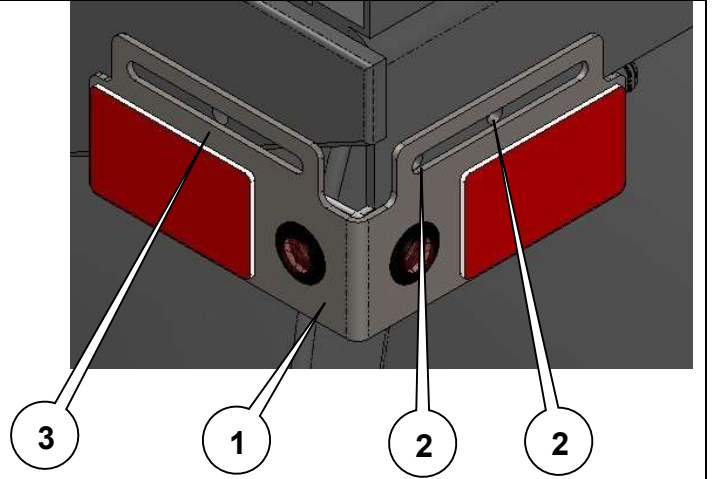


Figure 1

Procedure 2 – Install brackets with provided hardware (Figure 2)

1. Position the bracket assembly **(1)** on the rear corner of the truck aligning bracket assembly with the drilled holes.
2. Install and hand tighten provided 5/16-in hardware **(4)** (bolt, washers and nut) in place, using holes drilled in procedure 1, step 5.
3. Tighten fasteners **(4)** with wrench and driver to 18 ft-lb (24 Nm).
4. Repeat on opposite rear corner of truck.

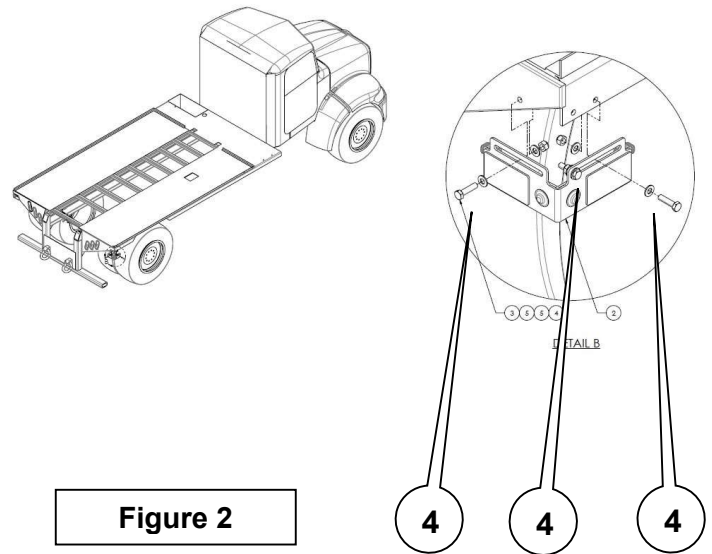


Figure 2

Procedure 3 – Install wiring harness (Figure 3)

1. Unplug truck light connector from unit light connector.
2. Position wiring harness (5) as shown in Figure 3.
3. Connect main trunk connectors (6) and unit light connectors (7) unplugged in step 1. Reference Figure 6.
4. Connect main trunk connectors (6) to truck light connector (8) unplugged in step 1.
5. Connect harness branch connectors (9) to light connectors (6). Reference Figure 6 in procedure 4.

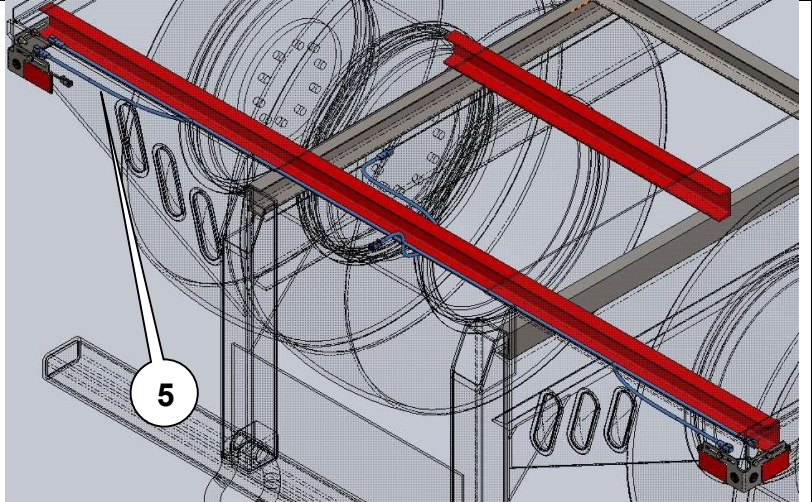


Figure 3

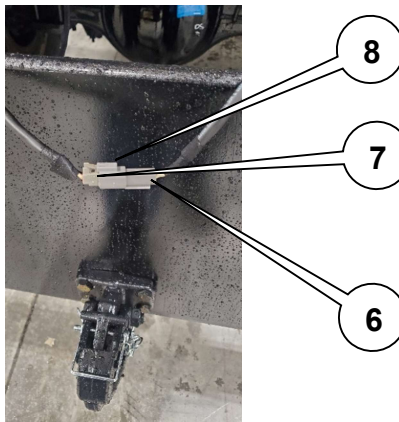


Figure 4

Note: Connectors in step 13 and Step 14 are the same type of connection shown in Figure 4.

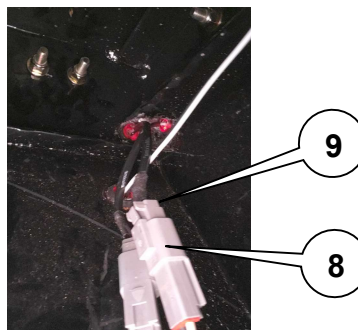


Figure 5

Procedure 4 – Testing and securing wires (Figure 3)

1. Check reflectors by shining a light at them from sides and rear to ensure they are functioning correctly.
2. Test lights to ensure functionality.
 - a) In cab of truck, turn on the running lights.
 - b) Walk around the truck and ensure all running lights have turned on.
3. Coil any slack in wires and zip tie **(10)** (not provided) to hard points to protect harness. Reference Figure 6.
 - a) Minimum radius of any coil should be 3 in (7.6 cm).
 - b) Truck bed will have points where other wires are secured **(11)**, zip tie to hard points or other wire bundles to secure the harness at those locations. Reference Figure 7.
4. Remove Figure 8 and attach to the invoice or place in the manual storage box so unit owner can place with existing parts manual.

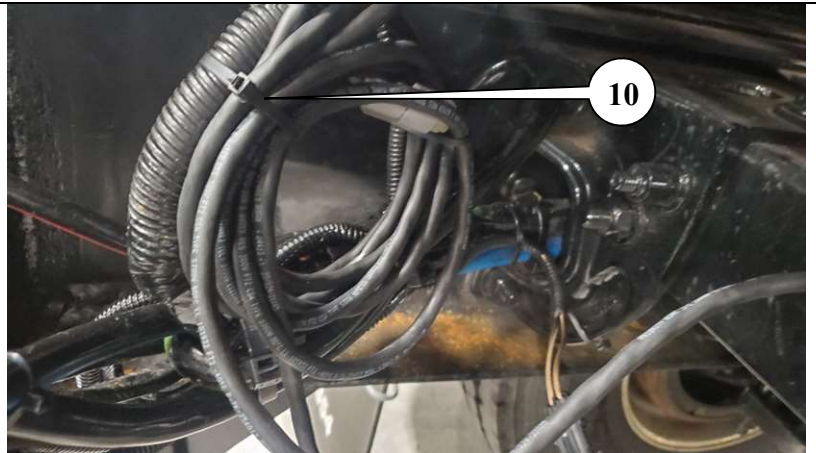


Figure 6



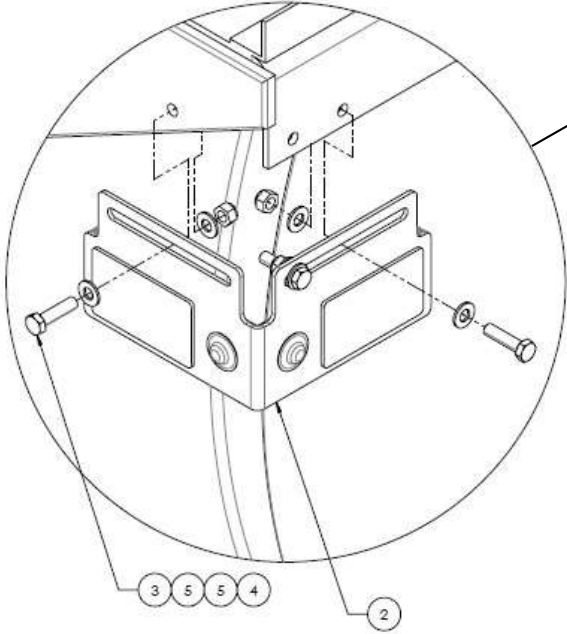
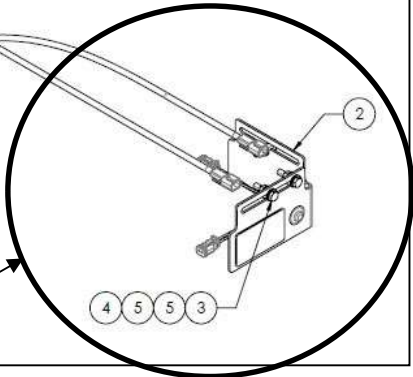
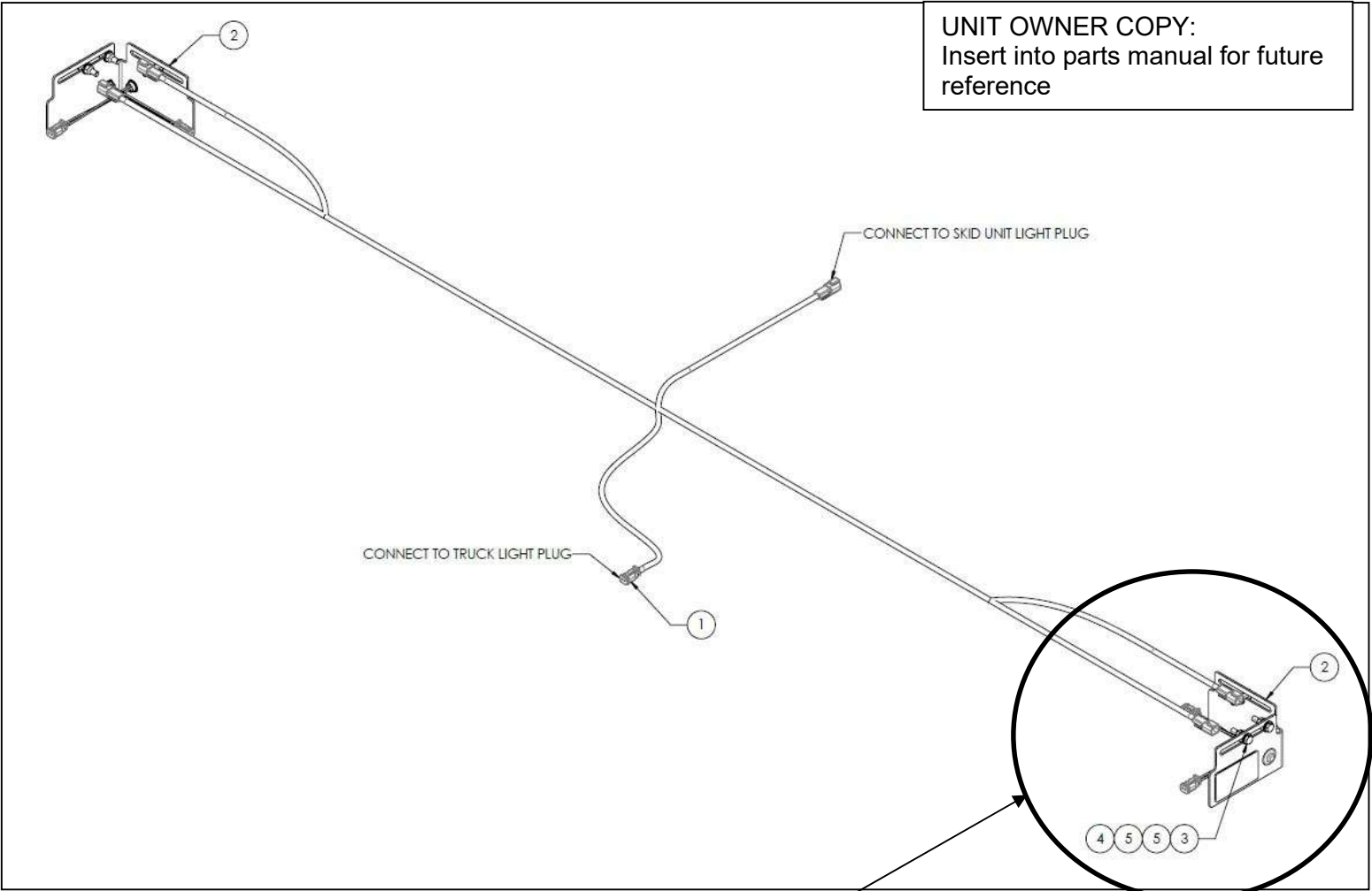
Figure 7

Model	VIN	Truck VIN	Model	VIN	Truck VIN*
ECO50	7HWZ170G5KG005007		ECO75	7HWB170VVMG000138	1FDNF6DCOMDF05252
ECO50	7HWZ170G9KG005009		ECO80	0000S8H0314172445	
ECO50	7HWZ170G5KG005010		ECO80	0000S5H0318172457	
ECO50	7HWZ170G7LG005012	1FDNF6DC7KDF04161	ECO80	0000S5H0610172595	
ECO50	1MVZ170GAMG010004	1FDNF6DC1NDF01986	ECO80	0000S8H0610172596	
ECO50	1MVZ170GLMG010005	1FDNF6DC3NDF01987	ECO80	0000S8H0610172597	
ECO50	0000S5H1105151632		VSK100XT	0000S5X0720151427	
ECO50	0000S5H0516161962		VSK100XT	0000S5H0212161761	
ECO50	0000S5H0705162034		VSK100XT	0000S5X1020162233	
ECO50	0000V5H0808162116		VSK30	7HWY190G6KG000101	
ECO50	0000S5H0220172408		VSK30	0000S5H0715162061	1FDNF6DC5GDA03907
ECO50	0000S8H0115182955		VSK30	0000S5S1003162191	
ECO75	7HWB180VXJG000101		VSK30	0000S5S1003162193	
ECO75	7HWB170V4JG000105	1FDNF6DC9HDB02621	VSK500	00000S5X013113463	
ECO75	7HWB180V0KG000111	1FDWF7DE3KDF00628	VSK500	00000S5X013113464	
ECO75	7HWB180V0LG000112	1FDXF7DEXKDF07717	VSK500	0000S5H0912147766	
ECO75	7HWB240V3LG000112		VSK500	000000SH102314839	
ECO75	7HWB180V6KG000114		VSK500	00000S5X022412775	
ECO75	7HWB170V5LG000116	1FVHCYFEXLHLN6509	VSK500	00000S5H102414845	
ECO75	7HWB170V6LG000125		VSK500	0000S5AW072611529	
ECO75	7HWB170V8LG000126	1FDNF6DC9KDF04162	VSK500	00000S5H080612108	
ECO75	7HWB170VTLG000132	1FDXF7DE9KDF05179	VSK500	00000S5H080612109	
ECO75	7HWB180VHMG000134	2NKHHJ7X8LM410488	VSK500	000S5XAW120711685	
ECO75	7HWB170VJMG000136	3ALHCYFE3MDMS4415	VSK500	00000S5X011912736	
ECO75	7HWB170VCMG000137	1FVHCYFE5MHMJ3913	VSK500	00000S5H092914808	

*The truck VINs that are missing were not available in manufacturing records.

Figure 8

UNIT OWNER COPY:
Insert into parts manual for future
reference



DETAIL B

FIGURE 8 Parts List

<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>IK01 QTY.</u>
1	135002086	Harness, Kit, Rear Marker and Clearance Lights	2
2	135002087	Assembly, Kit, Rear Marker and Clearance Lights	1
3	U000221	Screw, HC, .312-18x1.25 ZP G8	6
4	U120106	Nut, Lock, .3125-18 G8	6
5	U200050	Washer Flat .312 HD	12
		Kit includes all items in Figure 8 parts list.	