



Recall Service Bulletin



Recall Service Bulletin RSB21-500-001

DATE: 7/8/2021

APPLIES TO: This Recall service bulletin applies to 2019 through 2021 model year, S-180 model emergency response pumpers built between April 2019 and November 2020.

NHTSA/TC Id: 21V-459

CONDITION: Incorrect terminal installed on harness connected to pump control solenoid.

CORRECTION: Replace with correct terminals.

LABOR ALLOCATION: 1 Hour

CLASSIFICATION: V3

PARTS NEEDED:

<u>QTY</u>	<u>Part Number</u>	<u>Description</u>
4	12124580	Weather-Pack female terminal
4	12010293	Weather-Pack cable seal

GENERAL INSTRUCTIONS:

Thoroughly review entire service bulletin before starting work. If there are questions or concerns with steps defined in this service bulletin, contact Spartan Fire, LCC. Customer & Product Support Group.

All applicable industry safety standards must be followed when performing work identified in this procedure.

Service Bulletins are intended for use by Professional Technicians only. They are written to guide Professional Technicians in performing service to vehicles of specific nature in conjunction with industry standards. Professional Technicians are appropriately trained on industry standards and have the tools and equipment to perform procedures safely and properly.



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STEP-BY-STEP INSTRUCTIONS:

1. Locate 2 connectors that connect the harness to the pump shift control solenoid. These are typically located towards the middle of the truck on the drivers side frame rail. Road Solenoid connector will have orange wire labeled ERV738 & black wire labeled ERV510D. Pump solenoid connector will have blue wire labeled ERV739 & black wire labeled ERV510E.
2. Identify type of connector. Deutsch or Weather-Pack. *See Figure 2.1*

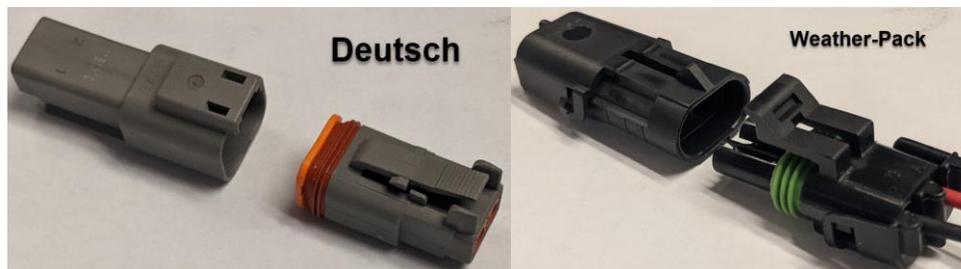


Figure 2.1

3. If connection is made with Deutsch connector no further action is needed. If connection is made with Weather-Pack connector move on to step 4.
4. Disconnect both Weather-Pack connectors that connect the harness to the pump shift control solenoid.
5. Inspect the harness side connector (Female connector assembly) terminals to verify they are a female (sleeve) terminal, not a male (pin) terminal. *See figure 3.1*

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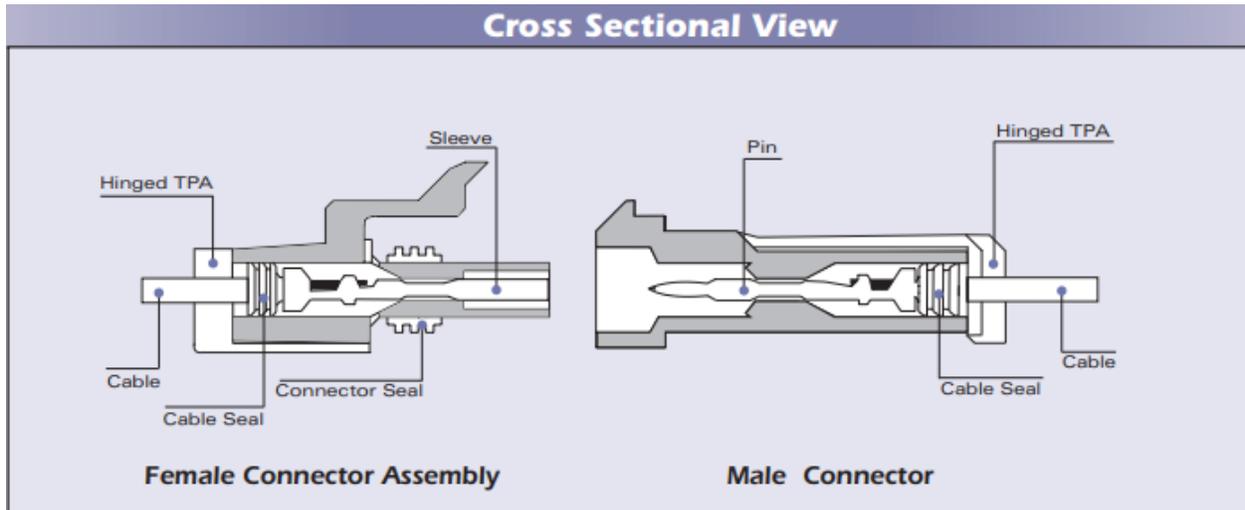


Figure 3.1

6. If female (sleeve) terminals are installed the connection is correct & the connectors can be reconnected as they were.
7. If male (pin) terminals were installed in the female connector assembly they will need to be replaced with the correct female (sleeve) terminals.
8. Open hinged TPA on female connector assembly. (See cross sectional view in *figure 3.1* above for hinged TPA location)
9. Insert terminal removal tool into front of female connector assembly & remove incorrect male (pin) terminal. *See Figure 4.1*

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Figure 4.1

10. Cut wire just below removed terminal & discard male terminal.

11. Strip wire insulation leaving approx. ¼" of exposed wire.

12. Insert 12010293 cable seal on to wire before the crimping of 12124580 female terminal sleeve onto wire. Inspect to make sure terminal is straight and not bent. Ensure the conductors are crimped to the conductor grip of the terminal and the cable seal is crimped along with the wire insulation grip. (See figure 4.2 showing proper crimp around seal & insulation)



Figure 4.2

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13. Insert female terminal into connector location where male terminal was previously removed.
(See figure 5.1 showing proper wire locations)



Figure 5.1

14. Continue steps 8 thru 12 until all incorrect terminals have been replaced. (4 terminals on 2 connectors)

15. Check pump operation to ensure Road and Pump Modes work properly.

- a. Turn on the master battery and ignition switches.
- b. Ensure the park brake is set.
- c. Start the truck.
- d. Engage the water pump using the switch in the cab. Make sure to follow all operational and safety placards in the cab relating to engaging the pump.
 - i. **Do not run the water pump for more than 30 seconds without opening the tank to pump valve to recirculate tank water through the pump.**
- e. Verify the "Pump Engaged" indicator light in the cab is illuminated.
- f. Disengage the water pump using the switch in the cab.
- g. Verify the "Pump Engaged" indicator light in the cab is no longer illuminated.
- h. Turn off the ignition and master battery switch.

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