



**DATE:** 10-22-2020

**APPLIES TO:** This service bulletin applies to Spartan ER model UST, 2019 and 2020 Model Year built between February 1, 2019 and May 21, 2020.

**CONDITION:** Per NFPA 16.10.2.2, "A "Pump Engaged" indicator shall be provided in the driving compartment to indicate the pump shift has been successfully completed." An error in the programming included interlocks of neutral and park brake causing the light to be extinguished while pumping in motion.

**CORRECTION:** A V-MUX program update must be downloaded to the node controlling the illumination of the "Pump Engaged" indicator in the cab.

**LABOR ALLOCATION:** 0.5 hrs

**CLASSIFICATION:** E3

### **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, LLC. Customer & Product Support Group.

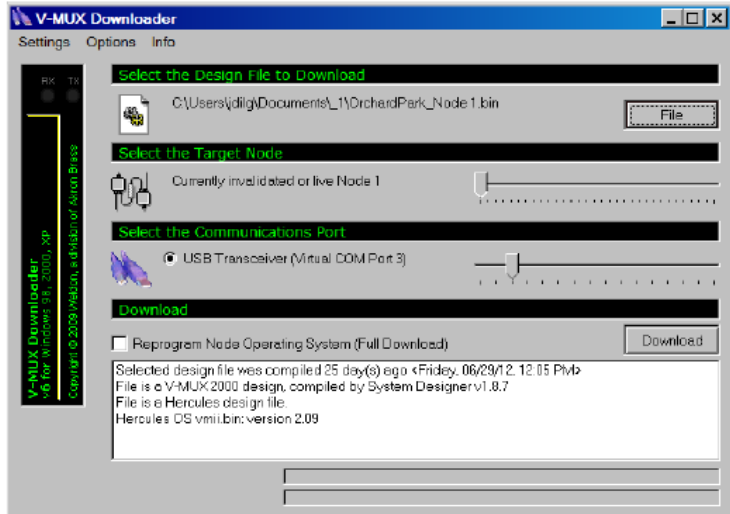
All applicable industry safety standards must be followed when performing work identified in this procedure.

### **STEP-BY-STEP INSTRUCTIONS:**

1. Contact Spartan Fire, LLC Customer & Product Support Group at 1-800-867-6487 to obtain the V-MUX vehicle application file, or "binary file" that needs to be downloaded to the vehicle. Please have the Spartan Fire Brandon truck number or vehicle VIN available.
2. Using Weldon V-MUX downloader and a USB transceiver, download the vehicle application file. Refer to the following procedure to complete the download

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**Downloading procedure for a V-MUX node in a live network  
(as in a vehicle)**



**PRELIMINARY:**  
V-MUX nodes in a live vehicle network are already programmed and in this case the usual purpose of the file Download is to update an existing program.

- Connect the transceiver box between the computer USB port and the vehicle's V-MUX port.
- Verify that the V-MUX nodes in the vehicle are powered.

**DOWNLOAD:**

1. File: Select the vehicle Application file. This will have the V-MUX node location number as part of the filename.
2. Target Node: Verify that the Target Node number matches the node number in the filename.
3. Communications Port: Verify that the computer has assigned a "USB Transceiver (Virtual COM Port [1-16])" to the transceiver module. The module must be plugged in for the computer to recognize it and assign a port number.
4. Download: Select the "Download" button to begin the file transfer to the node.
5. The lower message area and the blue progress bars at the bottom will indicate the status of the transfer.
6. Always recycle power OFF/ON at the end of every Download.

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3. After the V-MUX update is complete, perform the following test to validate the new program.
  - a. Turn on the master battery and ignition switches.
  - b. Ensure the park brake is set.
  - c. Start the truck.
  - d. Leave the transmission in neutral.
  - e. 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.

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- 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.**
  - f. Verify the “Pump Engaged” indicator light in the cab is illuminated.
  - g. Verify the “OK to Pump” indicator light in the cab is illuminated.
  - h. Step on the service brake. **Do not remove your foot from the service brake until step “q” below.**
  - i. Release the park brake.
  - j. Verify the “Pump Engaged” indicator light in the cab is still illuminated.
  - k. Verify the “OK to Pump” indicator light in the cab is no longer illuminated.
  - l. Shift the transmission into drive.
  - m. Verify the “Pump In Motion” indicator light in the cab is illuminated.
  - n. Verify the “Pump Engaged” indicator light in the cab is still illuminated.
  - o. Shift the transmission into neutral.
  - p. Set the park brake.
  - q. Remove your foot from the service brake.
  - r. Disengage the water pump using the switch in the cab.
  - s. Verify the “Pump In Motion” indicator light in the cab is no longer illuminated.
  - t. Verify the “Pump Engaged” indicator light in the cab is no longer illuminated.
  - u. Verify the “OK to Pump” indicator light in the cab is no longer illuminated.
  - v. Turn off the ignition and master battery switch.
4. If the pump indicator lights in the cab did not function as described above, call Spartan Fire, LLC Customer & Product Support Group at 1-800-867-6487 for assistance.

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