



S-Series

2.0 Medallion Instrument Cluster Software Update - High Transmission Temperature

Date: July 16, 2024
Bulletin Name: FDM-SVC-039
Model: Oshkosh S-Series
Units Affected: 2.0 Front Discharge Mixers VIN 788727-829556

Purpose:

This bulletin provides instruction for updating the Medallion instrument cluster software version to a new version updating the high transmission temperature icon and alarm to match the Allison high-temp fault settings. The alarm activates when the TCM detects one of the following over-temperature conditions in the transmission sump.

- 250° F (121° C) for 15 minutes
• 262° F (128° C) for 1 minute
• 270° F (132° C) for 3 seconds

Notice:

- This bulletin should be read and understood in its entirety before performing this procedure.
• All procedures outlined in the bulletin must be performed by skilled service personnel. Refer to the product service manual for descriptions of maintenance procedures.

SAFETY NOTICE
Perform your company's Lockout/Tagout procedure. If your company does not have a Lockout/Tagout procedure, follow OSHA 1910.147 and 1910.146 Confined Space as appropriate.

SAFETY NOTICE
Use appropriate Personal Protective Equipment (PPE) as required by your company.

Tools and Equipment Required

- Laptop
• Updated cluster software Hex File (from Engineering)
• ISO programming program

NOTE
Make sure ISO Programmer and Medallion Dash Update Tool are installed on laptop before beginning travel for software update.

Parts Required

Table with 4 columns: Item, Part Number, Description, Qty. Rows include items like CABLE ASSY, PCAN-USE, SVC and CONNECTOR, RECEPTACLE, 3 POSITION.

Procedure

NOTE

You can swap between Miles/Km by holding the right side button after the instrument cluster has booted and mileage is shown. If Miles/Km is swapped, press the right side button again to fix.

1. Confirm ISO Programmer is installed on the laptop. Administrator access is required. If this program is not installed, contact Engineering and/or DT to have program installed.
2. Assemble cables (A001C171, 3991923, 3065419) and receptacle connector (A001C924) into a PCAN-USB adapter cable as shown in Figure 1. Make sure the exposed connector on receptacle connector (A001C924) has the J1939 triangular wedgelock shape exposed. See Figure 1.

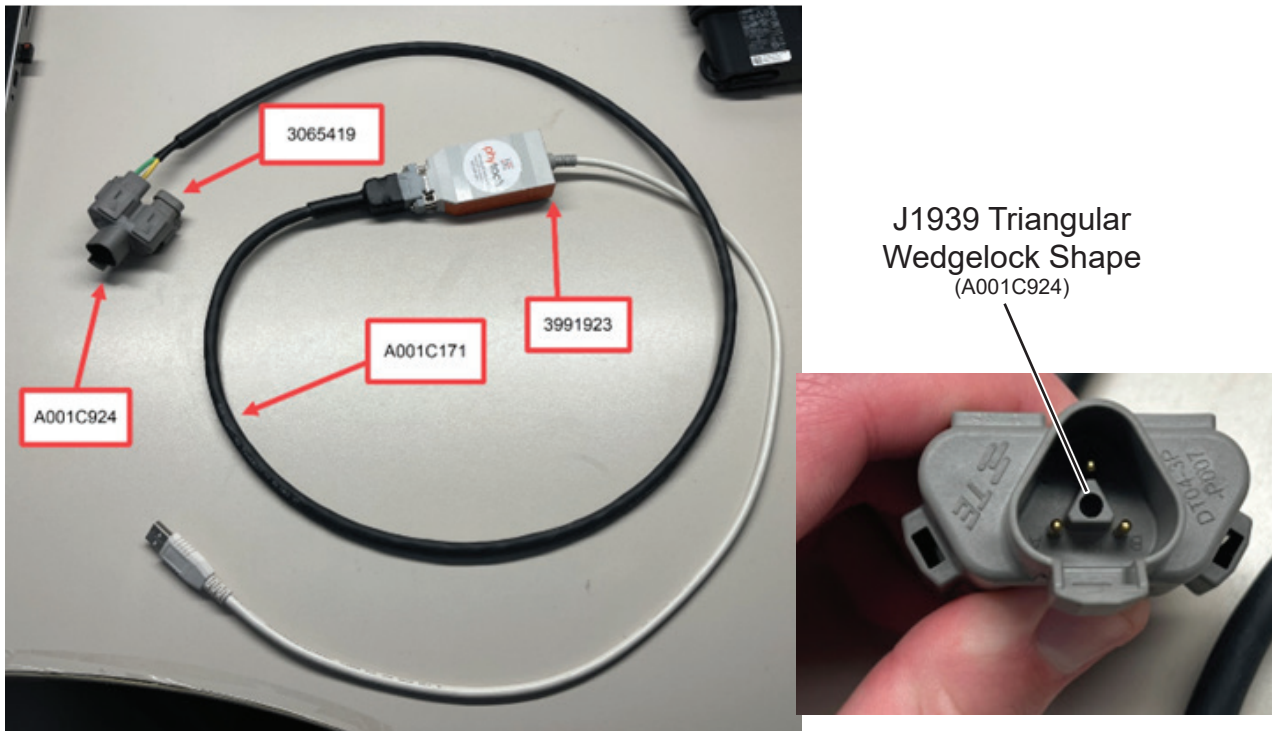


Figure 1

Instrument Cluster Software Update

3. Turn vehicle battery disconnect switch ON.
4. Turn vehicle ignition switch to IGNITION position.
5. Press and hold the left and right instrument cluster side buttons when the instrument cluster lights up and the Oshkosh logo is displayed to enter the Diagnostics screen. See Figure 2.
6. Confirm a software update is needed by looking at the App Version number. Verify software update compatibility before updating software. **Installing incompatible software version will cause the instrument cluster to brick and be inoperable.**

Software compatibility

There are two branches of compatible software. IMPORTANT! Care must be taken not to mismatch as it will “brick” an instrument cluster.

- 1.2.25 should be updated to 2.4.0
- 1.2.27 should be updated to 2.4.0
- 1.4.4 should be updated to 2.4.0
- 2.0.0 should be updated to 2.4.0
- 2.3.0 should be updated to 2.4.0
- 3.0.0 should be updated to 3.4.0
- 3.3.0 should be updated to 3.4.0



Figure 2

7. Record odometer and total drum revolution values if instrument cluster requires a software update. When in the diagnostics screen press the instrument cluster left-side button to exit, then press right-side button to scroll to ODO. See Figure 3. These values can also be found in overhead display About Screen.

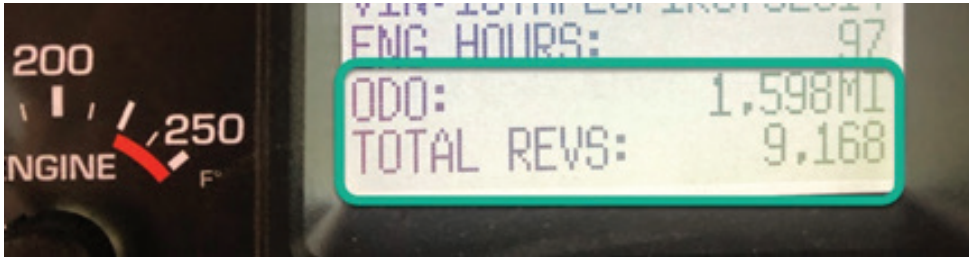


Figure 3

8. Turn vehicle ignition switch to OFF position.
9. Plug the PCAN-USB adapter cable into truck and laptop.
 - a. **MY22 and older:** Locate cab harness connector C12F (green tape) under the dashboard by the driver's left foot. See Figure 4. Remove the terminating resistor from connector C12F and install PCAN-USB adapter.



Figure 4

- b. **MY23 and newer:** Locate cab harness connector C12F (green tape) under the dashboard by the driver's left foot. See Figure 5. Remove the terminating resistor from connector C12F and install PCAN-USB adapter.



Figure 5

NOTE

Starting the vehicle's engine is not required, but should be done in cases where the batteries may not last the duration of the update (cold conditions, low voltage conditions, situations where the truck has not been operated for a long period of time, etc).

10. Turn vehicle ignition switch to IGNITION position.

NOTE

Do not have any other CAN devices operating on the laptop at the same time. Do not have PCAN Analyzer or Orchestra operating.

11. Open ISO Programmer program on laptop. If ISO Programmer fails, turn vehicle's ignition switch to OFF position and start over at Step 10. This happens occasionally and is not unusual.
12. Use ISO Programmer to update software.
 - a. Select S-Series Cluster from the Device drop down menu. See Figure 6.
 - b. Select Browse button in the Flash Data portion of ISO Programmer window. See Figure 6. Browse to location where updated cluster software hex file from engineering is saved on the laptop.
 - c. Click the Program Device button at the bottom of the ISO Programmer window. See Figure 6.

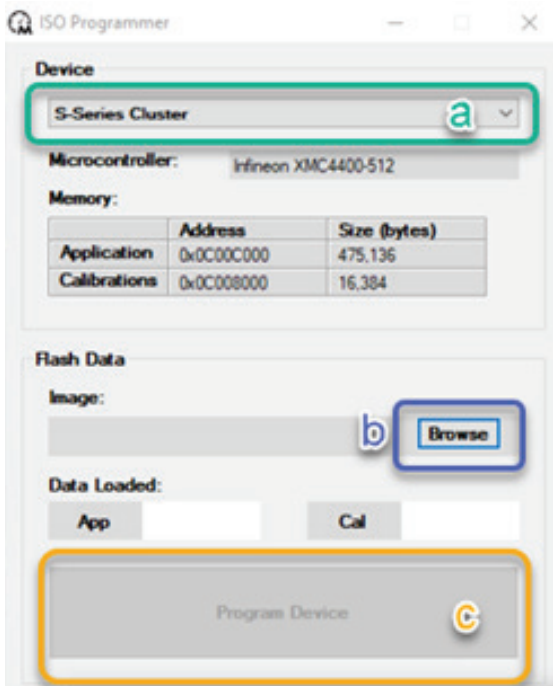


Figure 6

13. Check Odometer and Total Drum Revolution values that were recorded in Step 7. Press the right-side instrument cluster button until they appear in the display. See Figure 7. These values can also be found in overhead display About Screen.

If the Odometer and Total Drum Revolution values are different, they need to be reprogrammed using Medallion Dash Update Tool.

If the values are the same as recorded in Step 7 continue to Step 14.

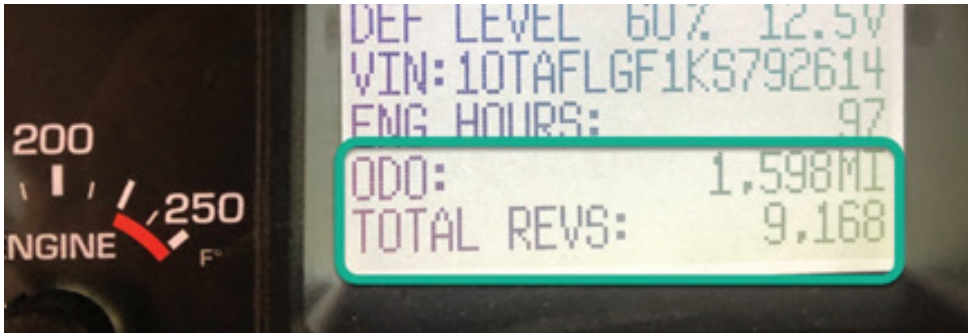


Figure 7

14. Disconnect PCAN-USB harness from connector C12F under dashboard and reinstall terminating resistor removed in Step 9.

15. Turn vehicle ignition switch to OFF.

16. Turn vehicle battery disconnect switch to OFF.

Continuous Improvement:

The change included in this document is part of the McNeilus Continuous Improvement Process.

McNeilus's quality policy is providing customer satisfaction through innovative products, dedicated service, and a constant focus on continuous improvement.



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