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Product Bulletin: Variable Power Divider System

Type: Notice

Products Impacted: ALL Schwarze Single Engine A7, A8, and A9 Sweepers equipped with the Marmon-Herrington Variable Power Divider System (VPD)

Condition: The Marmon-Herrington VPD has the potential to overheat due to insufficient cooling in some applications

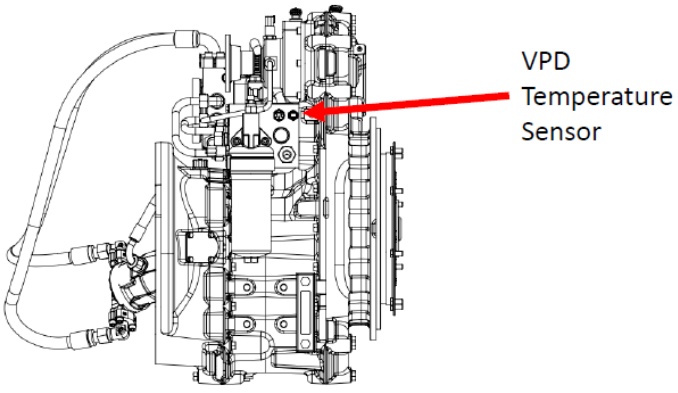
Warning: Operating the VPD over Marmon-Herrington's recommended maximum operating temperature of 194 degrees Fahrenheit (90 degrees Celsius) may result in damage to the VPD system.

Purpose of Bulletin:

1. Notification of a potential issue of insufficient cooling of the Variable Power Divider
2. Notification of forthcoming product updates and enhancements
3. Call to action to check existing system and address as needed

Impacted Units:

All single engine A7/A8/A9 Sweepers with a manufacture's date before 06/2024



Notifications:

1. The fuse for the cooling fan on the VPD system may be overloaded in certain applications causing the fuse to fail. When the fuse fails the cooling fan will not operate and can cause the VPD oil to exceed 194 degrees Fahrenheit (90 degrees Celsius), which exceeds the maximum operating temperature of the VPD. This is considered overheating of the VPD oil. Operating the vehicle in an overheating condition may cause damage to the VPD system. The higher the chassis engine RPM the more likely an overheating condition may occur if the fan is not working properly.
2. To address the potential for overheating situations, two update campaigns will be initiated as soon as possible.
    - The first campaign will include an updated fan circuit that will increase the amp carrying capacity from 30 amps to 50 amps to ensure proper function of the VPD cooling fan. It will also include an auxiliary warning system, which will aid in alerting an operator/driver of any errors occurring with the VPD system.
    - The second campaign will include relocation of the VPD cooler to enhance the airflow to the cooler.

Immediate Required Actions:

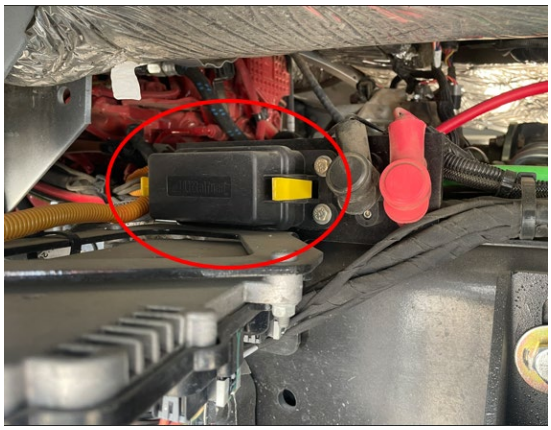
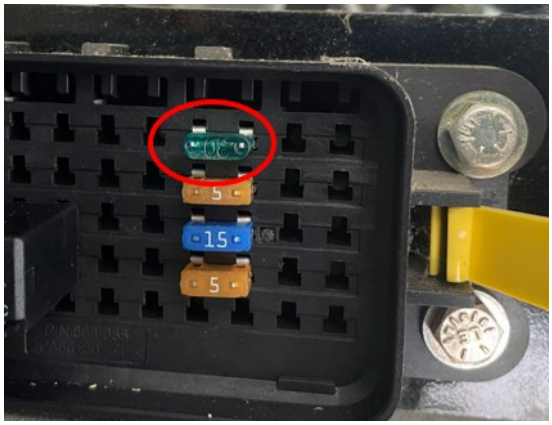
1. Check the VPD cooling fan circuit for the fuse condition. The current fuse is a 30-amp fuse and must remain a 30-amp fuse until the forthcoming update is installed.
    - If the fuse is blown it must be replaced with a 30-amp fuse (to be supplied by Marmon-Herrington).
    - See below for fuse block location.
2. Confirm function of the VPD cooling fan per section 5.3.2 of the VPD operator's manual (MM3VPD Operator's manual attached)
    - If the fuse is in working condition and the fan is not working, the wiring must be checked for continuity or damage.
    - See below for fan function check procedure.
3. Until the auxiliary warning system update is installed, the sweeper console must remain on whenever the chassis is on to ensure any broadcast VPD error messages can be received by the operator/driver. This includes when only transporting the unit.

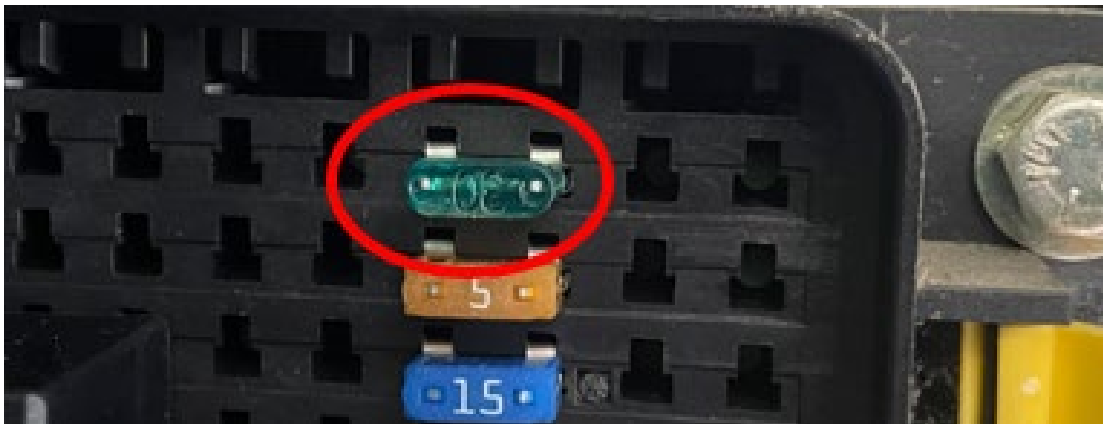
Information:

1. Contact information:
    - For questions regarding any of the information contained within this bulletin please contact Marmon-Herrington at engineering@marmon-herrington.com
    - For questions regarding how to receive the updated fan circuit and auxiliary warning system, including where/how to install, please contact Marmon-Herrington at engineering@marmon-herrington.com

2. Fuse Location:





Fan Function Check Procedure from the VPD operator's Manual (MM3VPD)

5 - Service and Maintenance

5.3 - Oil Cooler

5.3.2 - Oil Cooler Electrical

The oil cooler uses a fan to provide sufficient airflow at low speeds. The fan is critical for correct operation of the VPD.

Fan function can be checked manually. With the vehicle key in the 'Run' position, unplug the temperature sensor from the VPD valve block. The fan should turn on immediately. If the fan does not turn on, check fuses and wiring for faults. Reconnect the sensor when finished.