Technical Service Bulletin Number	Revision Level	Date	Group Number
TSB140071			

Technical Service Bulletin

Subject

Fault Code 2198 Caused by Original Equipment Manufacturer (OEM) Keyswitch Wiring

Issue

Normally Fault Code 2198 becomes active on CM2350 engines when there is a communication problem present between the engine control module (ECM) and variable geometry turbocharger (VGT) actuator on the J1939 data link. However, certain vehicle keyswitch wiring configurations can also result in setting Fault Code 2198.
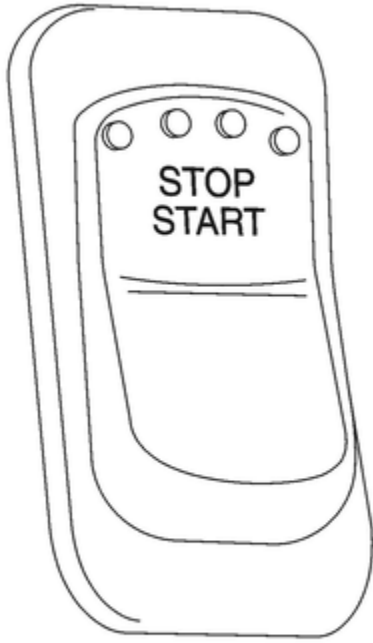
Certain Emergency One keyswitch configurations cause the ECM to power back ON while the turbocharger actuator is still powering down, when the engine start/stop switch is pressed and released to stop the engine. The actuator does **not** correctly process the communication from the ECM, causing it to log an error code. This condition is **not** present at the next key ON, and Fault Code 2198 should be inactive.

To prevent repeat occurrences of Fault Code 2198 and unnecessary replacement of parts, Emergency One has revised the keyswitch wiring on certain vehicles with specific optional equipment.
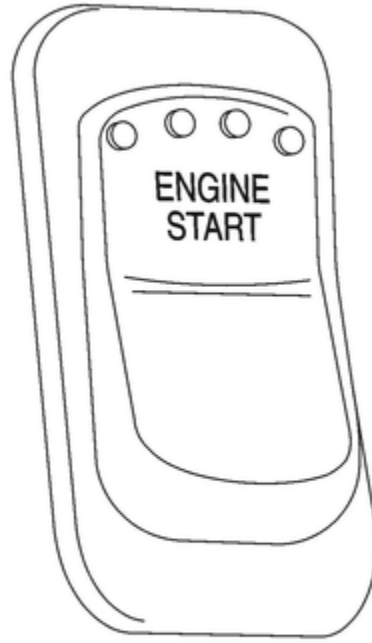
Verification

Pictured below are the previous and revised switches for reference. Also pictured below is the location of the switch configuration on the dash of Emergency One vehicles.

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If a customer experiences Fault Code 2198 on an Emergency One fire apparatus, check the unit's keyswitch configuration. If the previous configuration is used, this can be the cause of Fault Code 2198. If the revised configuration is used, the keyswitch configuration is likely **not** the cause of Fault Code 2198. Follow the published troubleshooting for Fault Code 2198.

Resolution

Contact a local Emergency One dealer to determine applicability of the wiring update. Emergency One dealer contact information can be found at www.e-one.com or by calling (352) 237-1122.

Warranty Statement

The information in this document has no effect on present warranty coverage or repair practices, nor does it authorize TRP or Campaign actions.

Document History

Date	Details
2014-5-30	Module Created

Last Modified: 05-Jun-2014