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Subject: Transmission Low Air Pressure and/or Clutch Temperature Display Messages
– Endurant Transmissions

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Issue Description:

Customers may experience a low transmission air pressure and/or clutch temperature message during low speed maneuvering or stop and go traffic situations.

- Low transmission air pressure message: This issue may be induced by a vehicle air system not functioning properly, such as, unable to achieve or maintain operating air pressure. Also may be induced by excessive use or cycling of the service brake exhausting the vehicle air supply.
- Clutch temperature message: This issue may be induced by “two footing” the service brake and accelerator pedal simultaneously causing the clutch not to fully close, inducing a clutch slip and increasing clutch temperature.

Fault codes that may set during these events:

- Transmission Air Supply Pressure: FC215 SPN 37 FMI 18
- Clutch Temperature: FC815 SPN 5939 FMI 15 and/or 16

Containment/Corrective Action:

Driver recommendations:

- Ensure the vehicle air system is operating per OEM requirements.
- Allow the vehicle air system to reach normal operating range, 99 to 130 PSI (6.8 to 9.0 Bar), prior to selecting a gear from neutral.
- Avoid “two footing” the service brake and accelerator pedal.
- Avoid using the accelerator pedal to hold the vehicle on a hill - depress and hold the service brake until movement is required.
- During operation on a grade, rely on Hill Start Aid (HSA) when transitioning from the service brake pedal to the accelerator pedal.
- During low speed maneuvering, select the lowest available start gear (1st or R1) and rely on Urge to Move and Creep Mode to assist in moving the vehicle at engine idle without having to apply the accelerator pedal.

Note: For additional information on how to operate the transmission refer to [Driver Instructions TRDR0950](#) and [GET 2 KNOW videos](#) .

Recommendations when messages are displayed:

- **Low transmission air message** - allow the vehicle air system to reach normal operating range (100 PSI or above) and then continue operation. For optimal performance, the transmission requires 99 to 130 PSI (6.8 to 9.0 Bar).

Note: Transmission software version 5516024 includes enhancements that prevent Fault Code 215 from setting while transmission is in Neutral mode. With software version 5516024, if the driver attempts to select a non-Neutral mode before transmission air pressure reaches 80 psi, the transmission will prevent gear engagement and Fault Code 215 will set Active. The root cause of Fault Code 215 setting, while the transmission is in Neutral mode, is the vehicle air system inability to fill the transmission air supply tank in a timely manner. A software update to 5516024 for Fault Code 215 is considered a non-warrantable issue.

- **Clutch temperature message** - safely and immediately discontinue the operation that is being performed which is causing the clutch to overheat. Depress and hold the service brake or set vehicle parking brake and idle the engine until the message is no longer indicated and then continue normal operation. Ensure to allow the engine to idle, shutting off the engine prolongs the condition.

Note: Transmission software version 5516024 includes enhancements that allow the transmission to continue operation when Fault Code 815 sets. Fallback mode of the Fault Code will still disable some transmission functionality such as launching in a higher start gear and Urge to Move. The driver will continue to be notified of a Clutch Abuse event via a dash message and auditable tone. A software update to 5516024 for Fault Code 815 is considered a non-warrantable issue.

NOTICE: In most cases the transmission will recover from the induced events outlined above and towing of the vehicle is not required.

Note: If the transmission low air and/or clutch temperature condition no longer exists some OEM displays may require the driver to manually clear the message. Refer to OEM guidelines regarding the display message reset procedure.

Affected Models/Population:

- Endurant Transmissions

Warranty Information:

Informational only.

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