



Solution

Title (customer effect) Chassis Equipped With An AMT-F (I-Shift, mDrive) - Idle Drive Function Activates When Vehicle Is Reversing/Backing Up At Low Speed; Information And Repair - Build Date Beginning Of Production 2017 To February 2018

Cause When backing into loading docks or other backing procedures units equipped with an AMT-F may enter idle driving mode unexpectedly with no indication to the driver. Contact with a loading dock or similar condition with the transmission in Idle Driving Mode may cause excessive stress to be placed on the driveline which can result in damage to equipment.

Solution

Overview

A new feature has been developed for the AMT-F gearboxes that allows the idle drive function to be turned off in reverse. This feature is available for US17 emissions (2018MY chassis) that have AMT-F gearboxes. Initial setting for Idle Drive in reverse is "ON".

Repair

If the chassis falls into the applicable build date range:

1. Update the Transmission Electronic Control Unit (TECU) software.
2. Go into Parameter Programming. Locate parameter P1Q9C.
 - Set P1Q9C to "OFF".
 - **Note:** P1Q9C will only be present if the TECU has been properly programmed first.

Solution visibility

Dealer distribution

Function(s)/component(s) affected

Function affected automatic transmission , engagement , drive axle/transmission

Function Group

Function Group 413 clutch control , 43 gearbox , 47 gearbox and reverse gear (or forward gear) combined system , 473 gear, forward or reverse , 474 drive shaft, drive shaft gear , 475 drive shaft joint

Customer effect

Main customer effect calibration/programming/pairing/missing operation , efficiency/abnormal behavior , stop/start

Conditions

Vehicle operating mode when driving , in reverse , with a trailer connected , without a trailer connected

Vehicle load half laden , unladen , fully laden

Frequency of occurrence of problem random

Speed <30 km/h

Engine speed 500 - 1000 rpm

Administration

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NA_VOLVO_Vehicle_Range

NA_VOLVO_Vehicle_Range
VNR , VNL , VNM , VAH

Engine family

Engine family 11L Engine , 13L Engine , MP7 , MP8

Emission Standard

Emission Standard 2018 , OBD2017 , US17 GHG