

SS 1033682 New Cascadia ABS Fault code SPN 520272 FMI 13

Applicable Vehicles

This solution applies to all New Cascadia vehicles.

Symptoms:

ABS Lamp on and active fault codes SA11 SPN 520272 FMI 13 --EOL Parameter ESC-Function (Steering Ratio Parameters) - out of calibration.

Issue

The code SA11 SPN 520272 FMI 13 --EOL Parameter ESC-Function (Steering Ratio Parameters) - out of calibration, will be active if the steering angle parameters are not correct. The code typically is accompanied by Fault code SA 11 SPN 520213 FMI 31 -ESC Calibration Procedure /Condition exists. To see the "Steering Angle Ratios", use DiagnosticLink to access the vehicle's Parameters. Under the ABS-Antilock Braking System ABS02T there is a folder labeled "Total Vehicle Configuration". When accessing the "Total Vehicle Configuration" folder, a good indication that the steering angles are incorrect, can be validated by the steering angles values showing "SNA" See screen print below.

Solution

To correct the code SA11 SPN 520272 FMI 13 --EOL Parameter ESC-Function (Steering Ratio Parameters) - out of calibration, the ABS ECU will need to have the original ABS programming reloaded. The ABS ECU reprogramming software can be accessed at meritorwabco.snapon.com. A new ABS ECU **does not** need to be purchased as the ABS ECU can be reprogrammed with the original software. [Meritor Wabco Technical Bulletin TP-1681](#) can be accessed for any questions about how to program the ABS ECU once the software has been acquired. Once the ABS ECU has been reprogrammed, the code SA11 SPN 520272 FMI 13 will go inactive, but fault code SA 11 SPN 520213 FMI 31 -ESC Calibration Procedure /Condition exists will probably still be present. To clear this code the ESC Learning Procedure located in DiagnosticLink will need to be run. This learning procedure can be accessed by selecting the action tab at the top of the page and selecting anti-lock braking system. Under the anti-lock braking system heading select ESC leaning procedure. Once the learning procedure is complete the code SA 11 SPN 520213 FMI 31 should go inactive.

SS 1033682 New Cascadia ABS Fault code SPN 520272 FMI 13

DiagnosticLink - Professional

File Edit View Log Parameters Actions Tools Help

Transmission: DT12-DT12 DA
Vehicle: New Cascadia-Sleeper
Engine: DDEC16-DD15

Find A01844739

Parameters

Parameters for HVAC_F01T, HVAC_R01T cannot be edited because it was not possible to verify their Last Serviced data. Click here to open the Program Device view to download data for this vehicle before attempting to make parameter changes.

Parameter	Part	Value	Units	Minimum	Maximum	Description
MBT Specific Parameter						
Total Vehicle Configuration						
Gross Vehicle Weight		55116	pound	11023	151568	Parameter defines t...
Tractor equipped to tow drawbar trailers		00				Parameter for future...
Steering angle inner left		sna	rad	0.00	25.13	Parameter defines t...
Steering angle inner right		sna	rad	0.00	25.13	Parameter defines t...
Steering angle outer left		sna	rad	0.00	25.13	Parameter defines t...
Steering angle outer right		sna	rad	0.00	25.13	Parameter defines t...
Steering ratio inner left		sna		8.0	38.0	Parameter defines t...
Steering ratio inner right		sna		8.0	38.0	Parameter defines t...
Steering ratio outer left		sna		8.0	38.0	Parameter defines t...
Steering ratio outer right		sna		8.0	38.0	Parameter defines t...
(reserved)		FFFFFFFFFFFFFFFF...				
Trailer Detection						
Vehicle CAN Config						
ICUC01T - Instrument Cluster						
HVAC_F01T - HVAC Front						
SSAM02T - Single SAM						
CGW04T - Central Gateway						
RDF02T - Radar Frontend 2						
ACM21T - Aftertreatment Control Module 2.1						

When Fault code 11/520272/13--EOL Parameter ESC Function (Steering Ratio Parameters)-out of calibration is present, then typically SNA will show in these fields.