

FLA COE
FLB COE
FLD Conventional
Business Class
FLC 112 Conventional

Century Class Conventional
Argosy COE
Cargo
Columbia
122SD and Coronado

Business Class M2
Cascadia
108SD/114SD
> New Cascadia

**Freightliner
Service Bulletin**

General Information

Fault code SA 11 SPN 520247 FMI 31 - *Failure Memory Bit (ESC) Condition Exists* may display if the electronic stability control (ESC) ECU is not mounted properly. Use the instructions in this bulletin to inspect and repair the ESC module.

IMPORTANT: If campaign SF-545 - *Freightliner Cascadia Combined ESC/AAVA Bracket* applies to the vehicle, perform the campaign prior to troubleshooting the code.

ESC Inspection and Repair

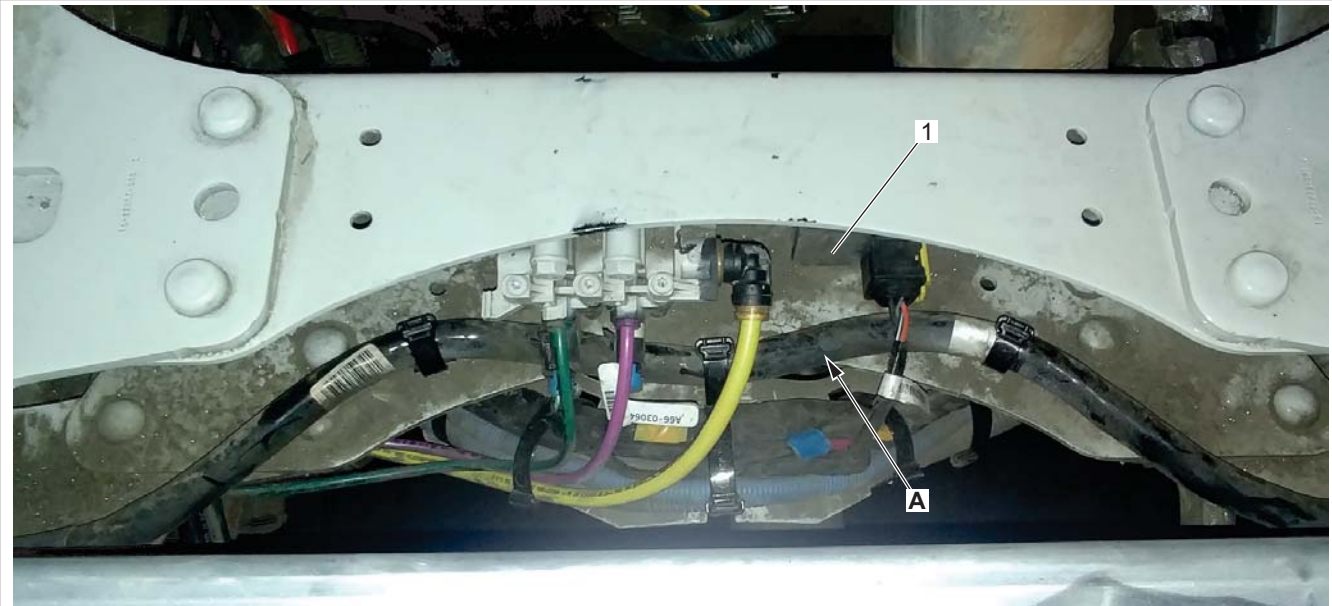
1. Park the vehicle, shut down the engine, and set the parking brakes. Chock the tires.
2. Inspect the ESC module.
 - 2.1 Verify that no components are in direct contact with the ESC module, connector, or wiring, or might contact it while in operation.
 - 2.2 Check that the module is securely mounted so that excessive vibration cannot be transmitted to the ESC Module. The ESC should be mounted on its own mounting bracket.
3. Perform an ESC driving calibration to verify proper operation.
 - 3.1 Start the engine and drive the vehicle in a straight line for 320 feet (100 meters) and then turn the steering wheel a minimum of 180 degrees.
 - 3.2 Park the vehicle, shut down the engine, and set the parking brakes. Chock the tires.
 - 3.3 Check if the fault code is still active. If the code is still active, continue with step 3.4. If the code is no longer active, go to step 4.
 - 3.4 Check the power, ground, and CAN wires from the ABS module to the ESC module for damage. If these wires are OK, replace the ESC module.
4. Route the ground cable away from the ESC module, attaching it to the chassis harness just below the crossmember. See [Fig. 1](#).

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- A. Route the ground cable away from the ESC module.
- 1. ESC

Fig. 1, Cable Routing

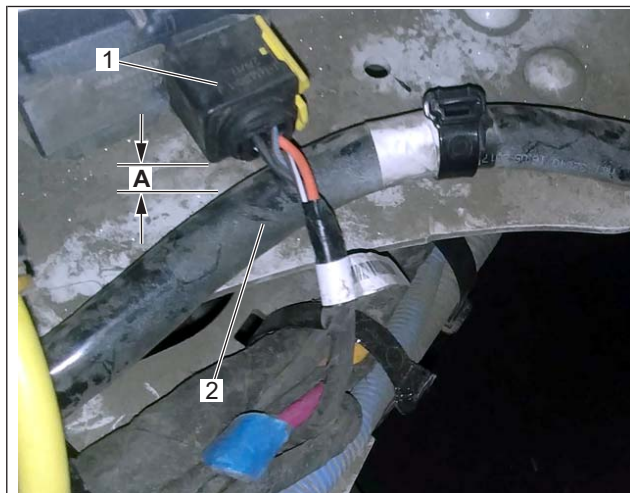
- 5. Make sure there is space between the ground cable and the ESC module. See [Fig. 2](#).

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- A. Make sure there is space between the ground cable and the ESC module.
1. ESC
 2. Ground Cable

Fig. 2, Cable Routing

6. Perform an ESC driving calibration. Start the engine and drive the vehicle in a straight line for 320 feet (100 meters) and then turning the steering wheel a minimum of 180 degrees.

Warranty

This procedure is warrantable only if the described condition exists and the repair is performed within the applicable base or extended coverage warranty period. If a failure is not found, this procedure is considered preventive and warranty does not apply.

Normal warranty applies. See [Table 1](#) for OWL VMRS codes and labor allowance information. Enter this service bulletin number in the 54-304 field.

OWL VMRS Codes and Labor Allowance					
Primary Failed Part	Component Code	Cause Code	SRT Code	Description	Time: Hours
ESC Module	013-011-170	3	49E-5001A	ESC, INSPECTION, CALIBRATION, R/R	0.6
Ground Cable	032-001-003	1	49E-5001B	GROUND CABLE, RAIL TO RAIL, RE-ROUTE	0.3

Table 1, OWL VMRS Codes and Labor Allowance