

FLA COE  
FLB COE  
FLD Conventional  
Business Class  
FLC 112 Conventional

Century Class Conventional  
Argosy  
Cargo  
Columbia  
122SD and Coronado

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

**Freightliner  
Service Bulletin**

## General Information

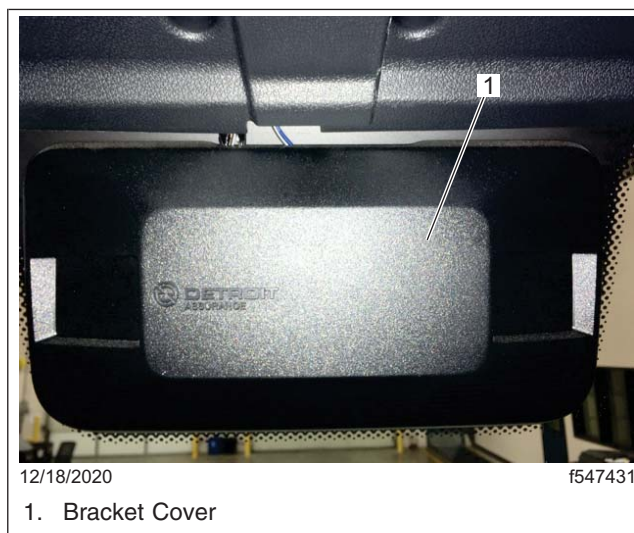
On New Cascadia vehicles, a delay in the timing of communication (hand shake) between the rain/light sensor (RLS) and sSAM generates fault code "33/521940/12 - rain/light sensor - general DTC timeout", which causes the sensor to stop working.

The following procedure should be used if the RLS part number (A 960 820 05 26 or A 960 820 06 26) is installed, and the new part number (A 960 820 07 26 or newer version) is not available when any of the following situations occur:

- If the fault code "33/521940/12 - rain/light sensor - general DTC timeout fault" becomes active, replace it with the old sensor (A 960 820 05 26 or A 960 820 06 26) until the new sensor (A 960 820 07 26) is available.
- If the windshield is replaced.

## Rain/Light Sensor Removal

1. Park the vehicle on a level surface, shut down the engine, and set the parking brakes. Chock the tires.
2. Disconnect the batteries.
3. Remove the multipurpose camera (MPC2) bracket cover. See [Fig. 1](#).



**Fig. 1, MPC2 Bracket Cover Removal**

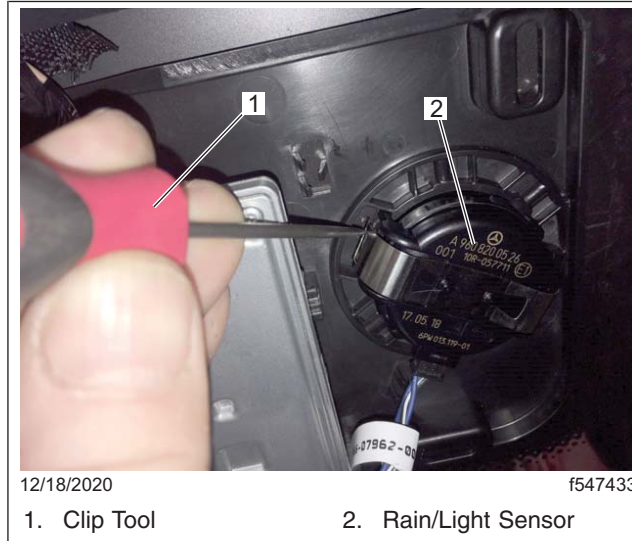
**IMPORTANT:** Do not remove the RLS electrical connector if the RLS is being reused.

4. Remove the RLS from the windshield by applying pressure on the sensor clip, then remove it by sliding the clip out on either side using a suitable pick tool. See [Fig. 2](#).

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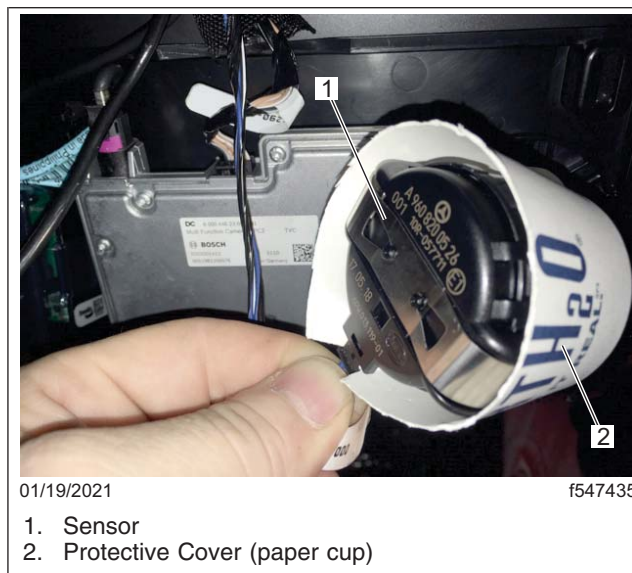


**Fig. 2, Rain/Light Sensor Removal**

5. Using a sustained pulling motion, carefully remove the RLS gel. Starting at one edge, gently peel the gel from the windshield to avoid tearing it.

NOTE: This step can be ignored if the RLS is replaced.

6. If the RLS will be used again, place a protective cover on the RLS and then relocate it by attaching it to the overhead of the cab until it is installed once again. See [Fig. 3](#) and [Fig. 4](#).



**Fig. 3, Protective Cover**

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**Fig. 4, Temporary RLS Location**

**IMPORTANT:** Make sure the connector remains connected to the sensor during the removal and installation process so that fault codes are not generated.

## Rain/Light Sensor Installation

1. Clean the sensor viewing window area on the inner windshield using a clean rag and a 50/50 mixture of isopropyl alcohol and water. Use a clean dry wipe to dry the surface. Inspect the area to ensure that it is clean. Allow approximately five minutes for the surface to be completely dry.
2. Remove the plastic cover from the new RLS (or the protective cover if the RLS is being used again). Avoid touching the gel during this process.
3. Position the sensor on the windshield, and press it firmly on both the sides to prevent air bubbles from forming. See [Fig. 5](#).



**Fig. 5, Attaching the Sensor on the Windshield**

**IMPORTANT:** Air bubbles less than 1 mm are considered acceptable. If air bubbles are greater than 1 mm, the sensor will need to be replaced.

4. Snap both sides of the spring to the bracket. See [Fig. 6](#).



**Fig. 6, Sensor Installation**

5. Install the windshield camera cover.
6. Connect the batteries.
7. Turn the ignition switch to the ON position.
8. Turn the headlight switch to the automatic position labelled as "A" and the wiper switch to the intermittent position.

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NOTE: Do not keep the wiper switch in the low or high position as it would override the function.

9. Using a spray bottle, squirt a small amount of water in front of the sensor to validate the function of the RLS. For a video showing testing of the RLS, see [DTNA.info/RainLightSensorTest](https://www.dtna.com/Info/RainLightSensorTest).
10. If the wipers operate, the sensor works. If the wipers do not operate, ensure that all of the switches are in the correct position as stated in step 8. If the wipers still do not operate, review the generated fault codes and troubleshoot as needed.
11. After the RLS function is validated, turn the ignition to the OFF position.

## Warranty

This bulletin is informational only. Warranty does not apply.