

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

The rain light sensor (RLS) requires proper mounting and clear windshield visibility for auto wipe to function properly. It is always recommended when checking for proper operation of the RLS, that the sensor be properly fastened to its mounting bracket and that the gel is free of fingerprints and foreign material. Also ensure that no air bubble larger than 1 mm is present in the gel.

If the RLS is properly installed, there are no active fault codes, and intermittent wiper speed 1 and 2 do not function when water is sprayed in front of the sensor, then it is possible the RLS is not calibrated. Follow the instructions below to calibrate the RLS.

Rain Light Sensor Calibration Procedure

To calibrate the sensor, the electrical system must be powered down and powered up three times. Ensure that all electronic control units (ECUs) activate and deactivate during each ignition cycle.

1. Turn on the ignition switch, move the wiper stalk switch to intermittent position 1 or 2 (auto wiping mode).
2. Spray water on the sensing area of the windshield. Spray only to check the activation of the wipers.
3. Wait one minute and spray water on the windshield. If the RLS is properly calibrated, the wipers sweep when water is sprayed in front of the sensor.
4. If the wipers do not activate upon the first spray, or delayed upon second spray, this indicates the sensor failed to calibrate. Try recalibrating the sensor again, using the process listed above.
5. If the sensor works, but the wipers do not sweep when water is sprayed over the rain sensor, then check the windshield as a possible cause for the RLS not calibrating.

Checking Windshield Transmittance

If the RLS fails to calibrate, then a possible cause is a slight variance in windshield transmittance from the target value in a limited group of windshields. To see if your windshield is in this group, locate the trademark code in the bottom-right of the windshield, shown in [Fig. 1](#). Compare the trademark code with the codes in [Table 1](#) to determine if windshield transmittance is the cause.

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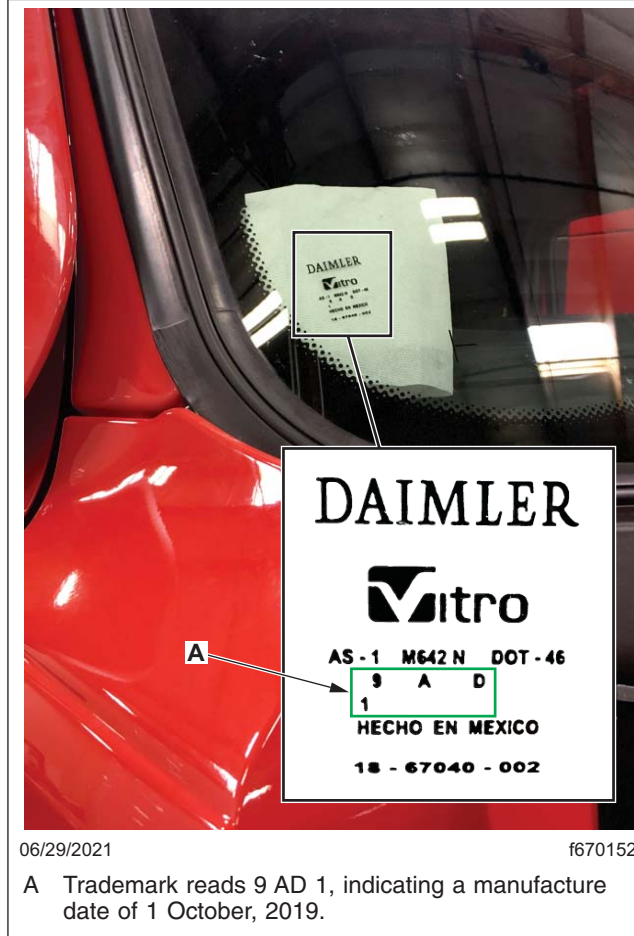


Fig. 1, Locating the Windshield Trademark Code

Refer to the windshield trademark decoding guide in [Fig. 2](#). Note that the trademark is in a three-part, numeric/alpha/numeric format, and that the alpha and second numeric portions of the trademark can be either one or two characters in length. The initial numeric character is only one character in length. Also, the full trademark code may be displayed over multiple lines. See the examples in [Fig. 2](#), noting the correct trademark code reading for each.

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<p>Trademark, Rain Sensor successfully calibrated</p>  <p>0 AF 19 (December 19, 2020)</p>	<p>Sample Trademark, Rain Sensor did not calibrate</p>  <p>1 B 17 (February 17, 2021)</p>	<p>YEAR → 7 8 9 A B C D E F G ←</p> <p>8 = 2018 9 = 2019 0 = 2020 1 = 2021 2 = 2022 3 = 2023 4 = 2024 ...</p> <p>← 1 2 3 4 5 6 7 8 9 0 1 2</p> <p>Day of Manufacture Date</p>	<p>Month of Manufacture</p> <p>A = January B = February C = March D = April E = May F = June G = July AB = August AC = September AD = October AE = November AF = December</p>
06/30/2021		f670153	

Fig. 2, Windshield Trademark Decoding Guide

If the three-part trademark code on the windshield matches any of the codes in [Table 1](#), the windshield must be replaced.

Windshield Trademark Codes			
Year	MFG Date	Quantity	Trademark
2021	03.01.2021	200	1 A 3
2021	04.01.2021	69	1 A 4
2021	07.01.2021	150	1 A 7
2021	08.01.2021	402	1 A 8
2021	09.01.2021	150	1 A 9
2021	23.01.2021	230	1 A 23
2021	24.01.2021	260	1 A 24
2021	25.01.2021	94	1 A 25
2021	26.01.2021	22	1 A 26
2021	29.01.2021	61	1 A 29
2021	06.02.2021	600	1 B 6
2021	13.02.2021	339	1 B 13
2021	17.02.2021	213	1 B 17
2021	20.02.2021	153	1 B 20
2021	21.02.2021	155	1 B 21
2021	22.02.2021	86	1 B 22
2021	23.02.2021	136	1 B 23
2021	27.02.2021	374	1 B 27
2021	28.02.2021	160	1 B 28
2021	01.03.2021	527	1 C 1
2021	04.03.2021	571	1 C 4
2021	05.03.2021	581	1 C 5
2021	06.03.2021	59	1 C 6
2021	11.03.2021	26	1 C 11
2021	18.03.2021	547	1 C 18

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Windshield Trademark Codes			
Year	MFG Date	Quantity	Trademark
2021	19.03.2021	88	1 C 19
2021	12.04.2021	530	1 D 12
2021	13.04.2021	667	1 D 13
2021	24.04.2021	27	1 D 24

Table 1, Windshield Trademark Codes

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 2](#) for OWL VMRS codes and labor allowance information. Enter this service bulletin number in the *Service Bulletin #* field.

OWL VMRS Codes and Labor Allowance						
Primary Failed Part	Component Code	Cause Code	Correction Code	SRT Code	Description	Time: Hours
A18-71102-001	002-024-001	62	3	663-6040D	WINDSHIELD GLASS ONLY, ROPED IN, W/ CAMERA, SINGLE PIECE, R/R	1.4

Table 2, OWL VMRS Codes and Labor Allowance