

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

**Freightliner
Service Bulletin**

Description of Revisions: *This bulletin replaces the version dated February 2014. Valve cleaning and O-ring installation have been clarified.*

General Information

The O-rings in the coolant solenoid valve of 13- and 23-gallon DEF tanks may take a compression set and leak in extreme cold conditions. An O-ring replacement kit (A04-31573-000) is available for replacing the O-rings in the valve to fix the leakage issue.

IMPORTANT: Units that are manufactured with the new O-rings will have a yellow dot on the ID plate. Units that have had the O-rings replaced should have a white dot on the ID plate. In the event of a leaking solenoid valve, check the unit for a white or yellow dot on the ID plate. See [Fig. 1](#). If the unit being serviced already has one of these, replace the unit with a new one. If the unit does not have a yellow or white dot on the ID plate, replace the O-rings following the instructions in "Replacement" below.

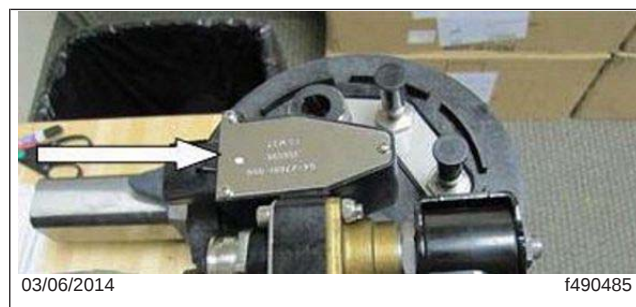


Fig. 1, Adding a White Dot

NOTICE

Freightliner does not recommend replacing the O-rings if the valve is not leaking.

Use care not to damage the seal surfaces and the O-rings when assembling the valve. Damaged O-rings will lead to further leaks.

Replacement

1. Park the vehicle on a level surface, set the parking brakes, and shut down the engine. Chock the wheels.
2. Remove the DEF tank from the vehicle if needed. For instructions, refer to **Group 49** of the vehicle's work-shop manual.
3. Remove the four bolts and nuts from the solenoid valve. See [Fig. 2](#).
4. Separate the solenoid valve. See [Fig. 3](#) and [Fig. 4](#).
5. Remove the two O-rings from the valve body. See [Fig. 5](#).
6. Using hot water and a clean cloth, clean the valve body as needed.

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Fig. 2, Removing the Bolts and Nuts



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Fig. 3, Separating the Solenoid Valve

NOTICE

Do not roll or twist the O-rings during installation. Doing so may cause the O-rings to break or leak.

7. Lubricate the new O-rings with the lubricant included in the kit, then install them on the black plastic base. See [Fig. 6](#).
8. Assemble the solenoid valve and install the bolts and new nuts. See [Fig. 7](#). Tighten 35 lbf-in (380 N·cm).



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Fig. 4, Separated Solenoid Valve



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Fig. 5, Removing the O-rings

9. Add a white dot to the ID plate to indicate that the valve is reworked. See [Fig. 1](#).

DEF Tank Coolant Valve O-Ring Kit

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Fig. 6, Installing the O-rings



Fig. 7, Assembling the Solenoid Valve

10. Install the DEF tank. For instructions, refer to **Group 49** of the vehicle's workshop manual.

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Parts

The O-ring replacement kit (A04-31573-000) is available through the PDCs.

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 QuickClaim damage code and labor allowance information. Refer to this service bulletin by number at the beginning of the claim comments. See [Table 2](#) for OWL VMRS codes and labor allowance information. Enter this service bulletin number in the *Service Bulletin #* field.

QuickClaim Damage Code and Labor Allowance			
Damage Code	SRT Code	Description	Time: Hours
234-102A07609	234-5012A	DEF Tank Header, O-ring leaking, RR	2.3

Table 1, QuickClaim Damage Code and Labor Allowance

OWL VMRS Codes and Labor Allowance					
Primary Failed Part	Component Code	Cause Code	SRT Code	Description	Time: Hours
04-27881-000	043-007-156	18	234-5012A	DEF Tank Header, O-ring leaking, RR	2.3
04-30798-000					
04-30798-001					

Table 2, OWL VMRS Codes and Labor Allowance