

FLA COE
FLB COE
FLD Conventional
Business Class
FLC 112 Conventional

Century Class Conventional
Argosy COE
Cargo
Columbia

Coronado
Business Class M2
> Cascadia
108SD/114SD

**Freightliner
Service Bulletin**

General Information

On a small population of Cascadia vehicles equipped with a dash-mounted Espar 7-day timer, the timer memory may be erased whenever the key is turned to "ON." This is caused by an incorrect connection of the wiring harness at the SAM Cab. The 7-day timer controls the coolant heater. The wiring will vary depending on whether there is also an air heater in the system.

Determine whether one or both heaters are installed, then perform the procedure below, for the type of heater installation, to remedy this issue. If the vehicle is equipped with only a coolant heater, perform the procedure for the "Espar Coolant Heater Only." If the vehicle is equipped with both heaters, perform the procedure for the "Espar Coolant Heater and Air Heater."

Repair Procedure, Espar Coolant Heater Only

Refer to [Fig. 1](#) and [Fig. 2](#) for this procedure.

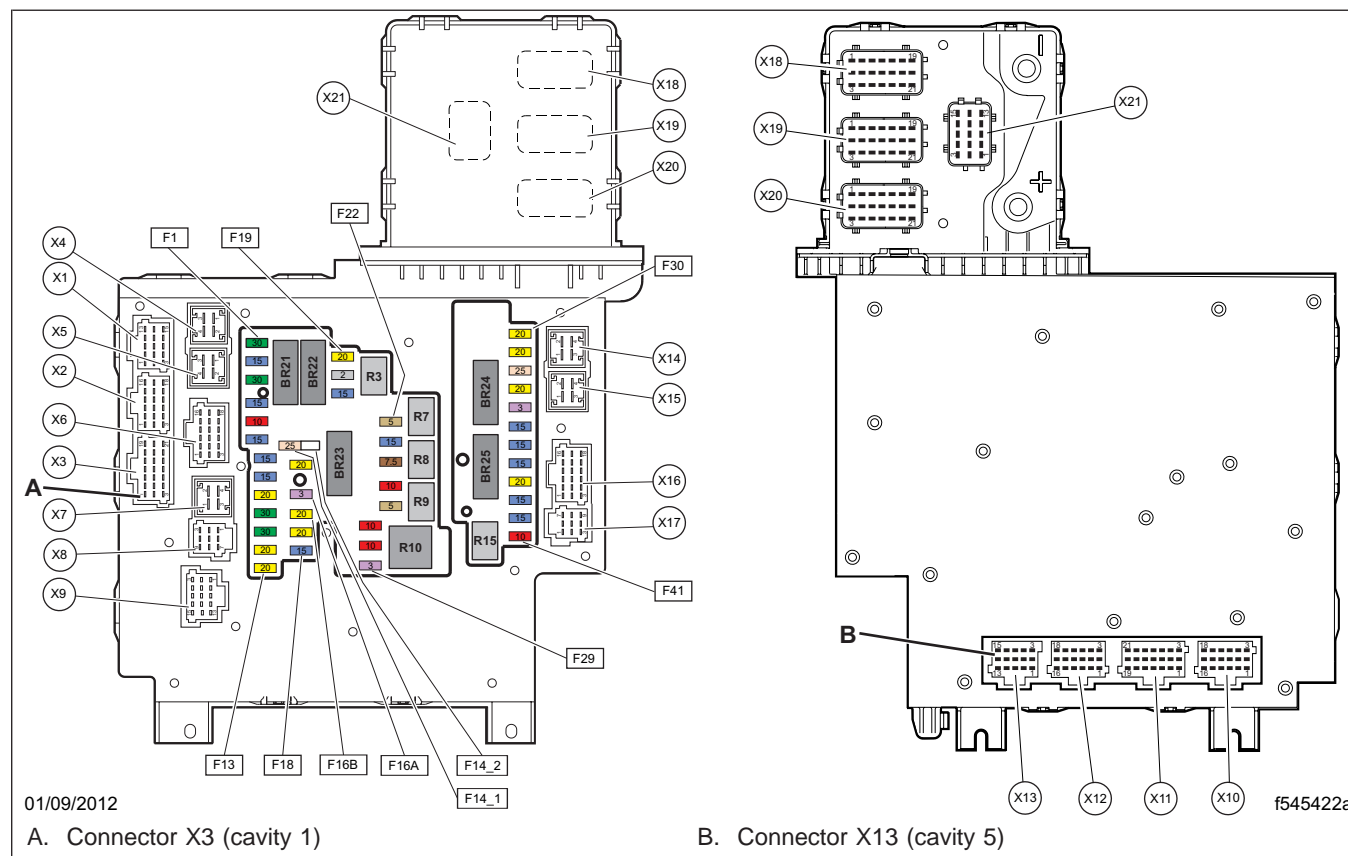


Fig. 1, SAM Cab

1. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the tires.
2. Disconnect the batteries.
3. Remove the glove box assembly.
4. Disconnect the wire at cavity 1 on connector X13.

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5. Determine if there is a wire going to cavity 5 on Connector X3.
6. Using Tyco Electronics terminal removal tool 1-1579007-2, remove the terminal end from the wire. Refer to [Section 54.06](#) in the *Cascadia Workshop Manual* for the wire splicing procedure.
7. If there is no wire going to cavity 5 of connector X3, splice in a wire with a pre-crimped terminal end (P/N AI 1 968851 1) and connect the wire at cavity 5.
8. If there is already a wire connected at cavity 5 of connector X3, splice on 6 inches of additional wire and then splice that into the wire going to cavity 5 (wire number 2304).
9. Connect the batteries.
10. Program the timer.

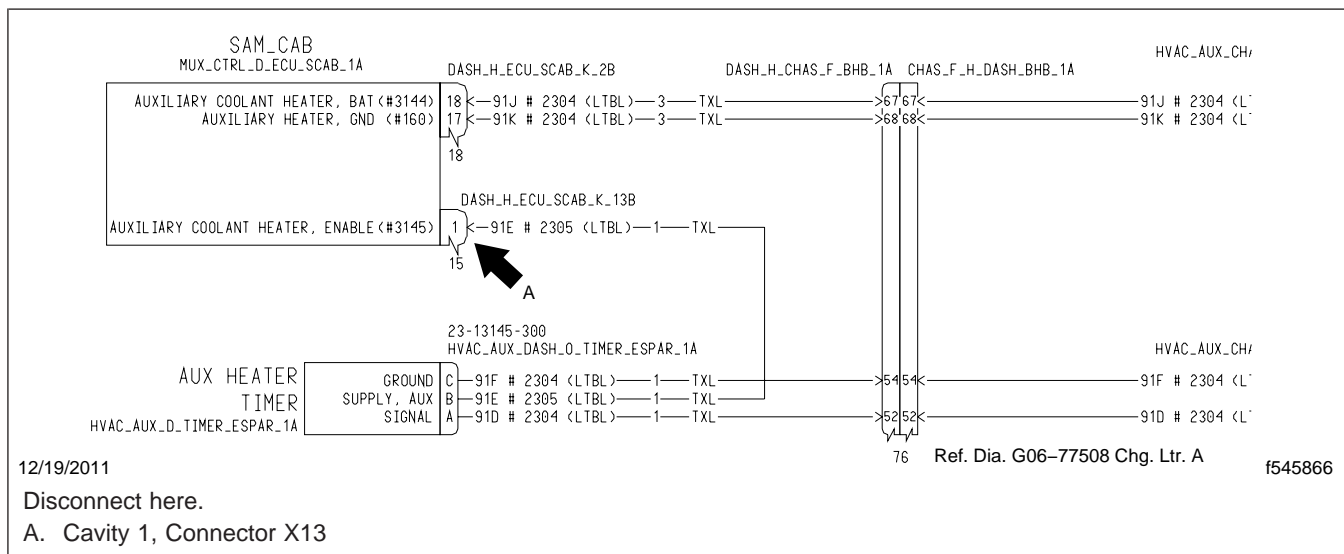


Fig. 2, Espar Coolant Heater Wiring Diagram

Repair Procedure, Espar Coolant Heater and Air Heater

Refer to [Fig. 1](#) and [Fig. 3](#) for this procedure.

1. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the tires.
2. Disconnect the batteries.
3. Remove the glove box assembly.
4. Remove the fasteners and pull the auxiliary dash panel out.
5. Disconnect the connector from the timer.
6. Remove the wire from cavity B of the timer connector (wire number 2305). Remove the terminal end, tape the wire end, and secure it out of the way.
7. Install a 56 series matching terminal end on a six foot long piece of new wire, and install it in the timer connector.
8. Install the connector in the timer.
9. Route the overlay wire to the the SAM Cab connector X3, and splice it into the wire going to cavity 5 (wire number 2304). Refer to [Section 54.06](#) in the *Cascadia Workshop Manual* for the wire splicing procedure.

Espar 7-Day Timer Memory Loss

83-142

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10. Secure the overlay wire with tie straps as needed.
11. Install the glove box.
12. Install the auxiliary dash panel.
13. Connect the batteries.
14. Program the timer.

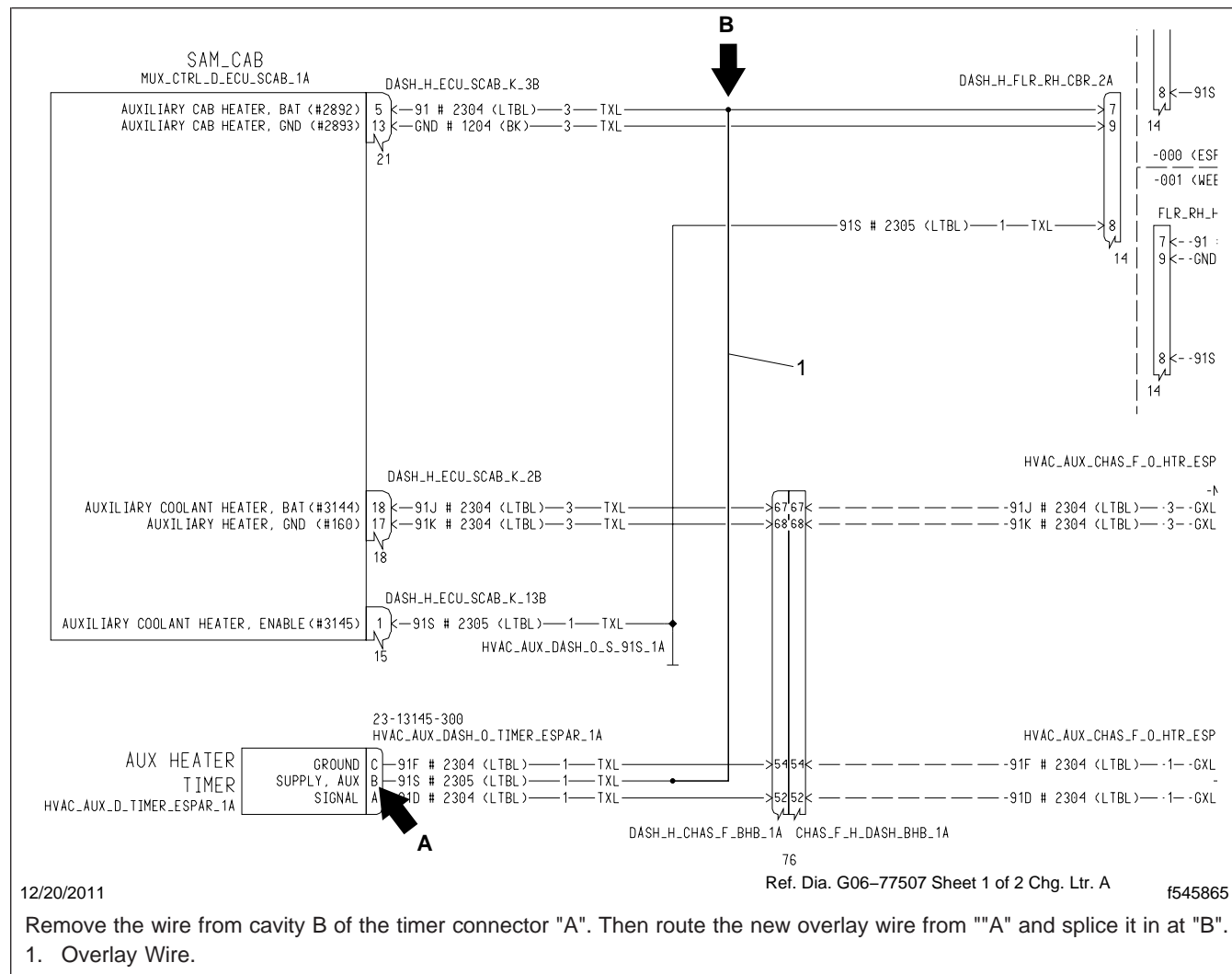


Fig. 3, Espar Coolant Heater with Air Heater Wiring Diagram

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.

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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
689-000A08973	689-5005A	Timer, Espar Aux Heater, Rewire	0.9

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
A06-77510-000	001-004-057	77	689-5005A	Timer, Espar Aux Heater, Rewire	0.9

Table 2, OWL VMRS Codes and Labor Allowance