

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

**Description of Revisions:** *This bulletin replaces the version dated 06/21/2022. Formatting errors have been corrected.*

## General Information

This service bulletin describes heating, ventilation, and air conditioning (HVAC) controller software updates released on January 4, 2022 that affect the New Cascadia HVAC system. This software update provides resolutions to the following three conditions.

- Sleeper vehicles with Battery Powered HVAC System (BPHS) do not turn on the engine fan when using the engine air conditioner compressor.
- Sleeper vehicles with optimized idle (O/I) blow hot air when parked.
- When running in full A/C mode, economy (ECO) mode automatically turns on after 45 minutes.

Only the forward control unit (FCU) and auxiliary control unit (ACU) software changes are affected. For reference, the parked control unit (PCU) software update is included in [Table 1](#). These software changes are available for service updates and are backwards compatible.

DiagnosticLink Software Updates			
Controller	FCU	ACU	PCU
SW Version	21.28.01	21.28.01	20.35.1
SW Part Number	001 448 09 28 ZGS 001	001 448 12 28 ZGS 001	000 448 70 28 ZGS 007

**Table 1, DiagnosticLink Software Updates**

This version of the HVAC controller software contains three changes that affect HVAC operation. See [Table 2](#).

HVAC Operation Changes			
Item	Symptom	Conditions of Occurrence	Resolution
Sleeper vehicles with BPHS running under very specific conditions do not turn on the engine fan when using the engine A/C compressor.	A/C cooling is diminished when running in this condition.	Specific conditions when the engine fan does not engage include the following. * <ul style="list-style-type: none"> <li>• Engine running in parked HVAC and A/C request coming from ACU</li> <li>• Not in Optimized Idle (O/I)</li> <li>• Parking brake is set</li> <li>• FCU not in A/C request mode (A/C or defrost)</li> </ul>	FCU and ACU software updates listed in <a href="#">Table 1</a> correct this issue and allows the engine fan to turn on with an ACU A/C request.
Sleeper vehicles with O/I blows hot air when parked.	When the HVAC is running in O/I in comfort mode, if programmed for auto elevate feature and auto elevate activates, the HVAC blows hot air.	Engine is in auto elevate with CPC software version 20.1 or earlier and O/I is running in comfort mode.	FCU and ACU software updates described in <a href="#">Table 1</a> correct this issue and eliminates auto elevate from blowing hot air when running in O/I comfort mode.



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**Freightliner  
Service Bulletin**

## Warranty

This is an informational bulletin only. Warranty does not apply.