

# Cascadia Cabin CAN ECU Compatibility

# 54-239

FLA COE  
FLB COE  
FLD Conventional  
Business Class

FLC 112 Conventional  
Century Class Conventional  
Argosy COE  
Cargo

Columbia  
Coronado  
Business Class M2  
> Cascadia

Freightliner  
Service Bulletin

**Description of Revisions:** *This bulletin replaces the version dated August 2014. Software version numbers are revised in [Table 1](#), and software update 6.3 is added.*

## General Information

Cascadia Cabin CAN electronic control units (ECUs) must have compatible software. See [Table 1](#) for the compatibility cross reference. A software level mismatch in the Cabin CAN ECUs may lead to undesired and unpredictable vehicle behavior. Use the instructions in this bulletin to bring all Cabin CAN ECUs to compatible levels of software. Affected ECUs include the following:

- SAM Cab
- SAM Chassis
- Modular Switch Field (MSF)
- Central Gateway (CGW)

When a vehicle is in service it is possible for one or more of these ECUs to be replaced or programmed with a software level that is not compatible with the others.

ServiceLink checks Cabin CAN ECU compatibility using the following indicators:

- A pop-up dialog box appears if an incompatible software version is detected on the vehicle. See [Fig. 1](#).
- A row on the "Problem ECUs" list indicating an incompatibility exists. The "Incompatible" row remains present until all Cabin CAN ECUs are compatible. To view the problem ECU list, click on the "List" icon from the "General Info" ServiceLink screen. See [Fig. 2](#).

**NOTE:** This bulletin shows compatibility of the ECU software versions only. To identify compatible ECU hardware, see [Service Bulletin 54-231](#), *Replacing SAM Cab and SAM Chassis Hardware Assemblies*.

Downgrading ECUs to older software versions to obtain compatibility is not recommended. Whenever software is upgraded, always flash software before flashing parameters. When software is flashed, ServiceLink will also migrate and then flash the parameters to complete the upgrade.

## Compatible Sets of Cabin CAN ECU Software

The software versions of the four Cascadia CAN ECUs must be compatible. The software in all four ECUs must all be coordinated to one of the release versions shown in [Table 1](#). For the electronics to operate properly, use ServiceLink to check and flash any ECU with the software that will make it compatible with the others for the appropriate release.

**NOTE:** In most instances there is more than one compatible software version that an ECU could have for a release.

## Combining SAM Versions 5.4 and 6.2

A SAM version 6.2 may be used in a 5.4 vehicle without the need to upgrade the other electronics in the system. If the vehicle is at a lower level than 5.4 release, the Cabin CAN ECUs must first be flashed up to version 5.4. ServiceLink will prompt to allow the latest versions of the 5.4 software suite that is compatible for the vehicle hardware.

When a SAM 6.2 is used on a 5.4 vehicle, ServiceLink is then required to upgrade the host software information and parameters for the new SAM 6.2.

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When the SAM 6.2 is installed, connect ServiceLink and select whichever new SAM (cab or chassis) that was just installed. Click on the "Flashing" tab and select the latest available version of software, then flash the vehicle with this software.

This process permanently upgrades the host and vehicle information for the SAM to release 6.2.

### Attempting to Combine SAM Versions 6.0 and 6.2

A SAM version 6.2 may not be used in a 6.0 vehicle unless the other SAM with release 6.0 is flashed up to release 6.2.

ServiceLink will prompt to allow the latest available versions of software compatible for the vehicle hardware, which is the 6.2 release. DO NOT select the latest available version of software unless it is intended to upgrade the vehicle to 6.2. Use the 6.0 software version identified in table 1 to keep the SAMs at 6.0.

When a SAM 6.2 will be used on a 6.0 vehicle, ServiceLink is then required to upgrade the host software information and parameters for both, the new SAM 6.2 and the remaining SAM 6.0.

After replacing the SAM, connect ServiceLink and select whichever new SAM (cab or chassis) that is installed. Click on the "Flashing" tab and select the latest available version of software, then flash the vehicle with this software. Repeat this step for the other SAM.

This process permanently upgrades the host and vehicle information for the SAMs to release 6.2.

**IMPORTANT:** When the Central Gateway is updated to the most recent software on EPA07 vehicles, the J1587/J1708 wires must be disconnected from the CGW. The updated CGW does not have the capability of rerouting CAN ECU faults on J1587/J1708. Removing the J1587/J1708 wires from the new CGW does not affect any function of the CGW. However, since EPA07 vehicles use J1587/J1708 for generic CAN ECU faults that were rerouted by the original CGW for display on the ICU, these messages will not be present.

Compatible Sets of Cabin CAN ECU Software				
Release	Software Version/Flash Version			
	SAM Cab	CGW	MSF	SAM Chassis
5.0	07.17.003 A0004484558_001	07.22.000 A0004480427_001 <b>OR</b> 08.40.000 A0004480627_001	07.24.000 A0004480523_001	07.17.003 A0004481761_001
5.2	07.36.005 A0004484658_001	07.22.000 A0004480427_001 <b>OR</b> 08.40.000 A0004480627_001	07.24.000 A0004480523_001	07.36.005 A0004481861_001

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Compatible Sets of Cabin CAN ECU Software				
Release	Software Version/Flash Version			
	SAM Cab	CGW	MSF	SAM Chassis
5.4	08.17.014 A0004484758_001 <b>OR</b> 08.17.015 A0004484758_002	08.42.001 A0004480727_001 <b>OR</b> 09.33.000 A0504480127_001 <b>OR</b> 09.48.000 A0504480227_001 <b>OR</b> 14.05.000 A054480527_001	08.31.000 A0004480623_001 <b>OR</b> 13.25.000 A054480423_001	08.17.016 A0004481961_003
6.0	9.31.005 A0504480258_001	09.33.000 A0504480127_001 <b>OR</b> 09.48.000 A0504480227_001 <b>OR</b> 14.05.000 A054480527_001	09.51.000 A0504480023_001 <b>OR</b> 10.10.000 A0504480123_001 <b>OR</b> 13.25.000 A054480423_001	09.31.005 A0504480261_001
6.2	11.29.005 A0504480458_001	09.33.000 A0504480127_001 <b>OR</b> 09.48.000 A0504480227_001 <b>OR</b> 12.30.000 A05404480427_001 <b>OR</b> 14.05.000 A054480527_001	12.11.000 A054480323_001 <b>OR</b> 13.25.000 A0504480423_001	11.29.004 A0504480461_001

Compatible Sets of Cabin CAN ECU Software				
Release	Software Version/Flash Version			
	SAM Cab	CGW	MSF	SAM Chassis
5.4 with a SAM Cab 6.2	11.29.005 A0504480458_001	08.42.001 A0004480727_001 <b>OR</b> 09.33.000 A0504480127_001 <b>OR</b> 09.48.000 A0504480227_001 <b>OR</b> 14.05.000 A0504480527_001	08.31.000 A0004480623_001 <b>OR</b> 13.25.000 A0504480423_001	08.17.016 A0004481961_003
5.4 with a SAM Chassis 6.2	08.17.014 A0004484758_001 <b>OR</b> 08.17.015 A0004484758_002	08.42.001 A0004480727_001 <b>OR</b> 09.33.000 A0504480127_001 <b>OR</b> 09.48.000 A0504480227_001 <b>OR</b> 14.05.000 A0504480527_001	08.31.000 A0004480623_001 <b>OR</b> 13.25.000 A0504480423_001	11.29.004 A0504480461_001
6.3	14.38.000 A0504480558_001	14.05.000 A0504480527_001	13.25.000 A0504480423_001	14.28.000 A054480561_001

**Table 1, Compatible Sets of Cabin CAN ECU Software**

## Warranty

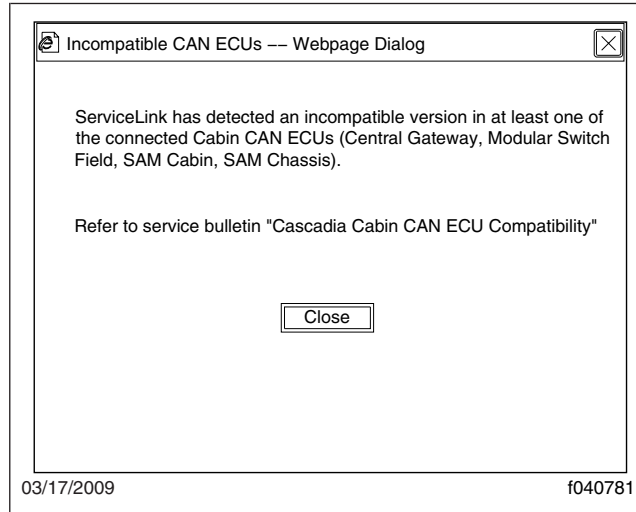
This is an informational bulletin only. Warranty does not apply.

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**Fig. 1, ServiceLink Incompatibility Detection Dialog Box**

**ServiceLink** Home | ECU's | Admin | Help

Disconnect

General Info | Faults | Templates

J1708  J1939  CAN

Sync ECU List to Host Show ECU History

CAN ECU's detected - 4

ECU ID	ECU Description	Make	Model	Software Version
33	SAM Cabin	Freightliner	highline	07.36.005
37	Central Gateway	Freightliner	baseline	07.05.000
49	Modular Switch Field	Freightliner	baseline	07.13.001
71	SAM Chassis	Freightliner	highline	07.36.005

\*Information appearing in gray comes from messages routed by the Central Gateway from ECUs physically connected to a different protocol. To troubleshoot ECUs in gray, select their primary protocol and navigate to the specific ECU icon on the left of the screen.

Problem ECUs: 3

Status	Description	Protocol	ECU	Make	Model	Software Version
MISSING	Engine #1	J1708	128	DTDSC	6067GK60	32.08
MISSING	Brakes, Power Unit	J1708	136	RCKWB	NA-490	D
MISSING	Instrument Cluster	J1708	140	FRGHT	ICU3	U.r.3.2.2
Incompatible	CAN ECUs - Refer to service bulletin "Cascadia Cabin CAN ECU Compatibility"					

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A. The incompatible row is shown on the "Problem ECUs" list.

**Fig. 2, CAN ECU List on the General Info Screen**