

Cascadia Cabin CAN ECU Compatibility

Freightliner
Service BulletinFLA COE
FLB COE
FLD Conventional
Business ClassFLC 112 Conventional
Century Class Conventional
Argosy COE
CargoColumbia
Coronado
Business Class M2
> Cascadia

Description of Revisions: *This bulletin replaces the version dated September 2009. The bulletin is revised to reflect the implementation of ServiceLink 4.1 and the release of subsequent software versions.*

General Information

Cascadia Cabin CAN electronic control units (ECUs) must have compatible software for the vehicle to work properly. Failure to do so 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 SAM Cab, SAM Chassis, Modular Switch Field (MSF), and Central Gateway (CGW).

All Cabin CAN ECUs are installed with the most recent software. However, while the 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 has a feature for checking Cabin CAN ECU compatibility that includes the following tools:

- 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 indicates that an incompatibility exists among the CAN ECUs. The "In-compatible" row remains present until all Cabin CAN ECUs are compatible.

The "Problem ECUs" list can be found by clicking the "List" icon and looking at the bottom of the "General Info" screen. See **Fig. 2**.

Instructions

NOTE: The procedure for updating ECU software includes guidance for obtaining compatibility of the ECU software versions only. Compatibility of ECU hardware versions is not covered.

ServiceLink 4.1 or higher is required to perform this update. To confirm which ServiceLink version is installed, open ServiceLink; it is not necessary to connect to a vehicle. Click on the "Help" link at the top of the screen, then click "About". The screen will display the ServiceLink version.

Nexiq USB-Link driver version 7.0.3 is required to perform this update. To confirm which Nexiq USB-Link driver version is installed:

- Open the Control Panel.
- Open the "Add or Remove Programs" list.
- Scroll to the entry "Nexiq USB-Link".
- Click the link "Click here for support information."
- A pop-up dialog will appear. The version shown in this dialog should say "7.0.3".

The latest supported USBLink driver is available on ServiceLink's **Admin > Download** page under the link "Download Nexiq USB-Link Dual CAN driver".

Compatible Sets of Cabin CAN ECU Software

If an incompatibility exists on the vehicle the following will occur upon connecting the vehicle to ServiceLink:

- A pop-up dialog about incompatibility will appear. See **Fig. 1**. Click "Close" on that notification.
- An "Incompatible" row will appear in the "Problem ECUs" list at the bottom of the "List" icon General Info screen. See **Fig. 2**.

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Make sure the software versions and software part numbers for all four CAN ECUs match one row in **Table 1**.
Use the General Info screens to obtain the vehicle's software information.

Update ECU software as necessary.

NOTICE

It is not possible to install earlier hardware or software using ServiceLink.

Compatible Sets of Cabin CAN ECU Software				
Release	Software Version/Flash Version			
	SAM Cab	CGW	MSF	SAM Chassis
5.0	07.17.003	07.22.000	07.24.000	07.17.003
	A0004484558_001	A0004480427_001	A0004480523_001	A0004481761_001
5.0	07.17.003	08.40.000	07.24.000	07.17.003
	A0004484558_001	A0004480627_001	A0004480523_001	A0004481761_001
5.2	07.36.005	07.22.000	07.24.000	07.36.005
	A0004484658_001	A0004480427_001	A0004480523_001	A0004481861_001
5.2	07.36.005	08.40.000	07.24.000	07.36.005
	A0004484658_001	A0004480627_001	A0004480523_001	A0004481861_001
5.4	08.17.014	08.42.001	08.31.000	08.17.016
	A0004484758_001	A0004480727_001	A0004480623_001	A0004481961_003
5.4	08.17.015	08.42.001	08.31.000	08.17.016
	A0004484758_002	A0004480727_001	A0004480623_001	A0004481961_003
5.4 EPA2010	08.17.015	09.33.000	08.31.000	08.17.016
	A0004484758_002	A0504480127_001	A0004480623_001	A0004481961_003
5.4 EPA2010	08.17.015	09.48.000	08.31.000	08.17.016
	A0004484758_002	A0504480227_001	A0004480623_001	A0004481961_003
2010.5 6.0 SAMs	09.31.005	09.33.000	09.51.000	09.31.005
	A0504480258_001	A0504480127_001	A0504480023_001	A0504480261_001
2010.5 6.0 SAMs	09.31.005	09.48.000	09.51.000	09.31.005
	A0504480258_001	A0504480227_001	A0504480023_001	A0504480261_001
2010.5 6.0 SAMs	09.31.005	09.33.000	10.10.000	09.31.005
	A0504480258_001	A0504480127_001	A0504480123_001	A0504480261_001
2010.5 6.0 SAMs	09.31.005	09.48.000	10.10.000	09.31.005
	A0504480258_001	A0504480227_001	A0504480123_001	A0504480261_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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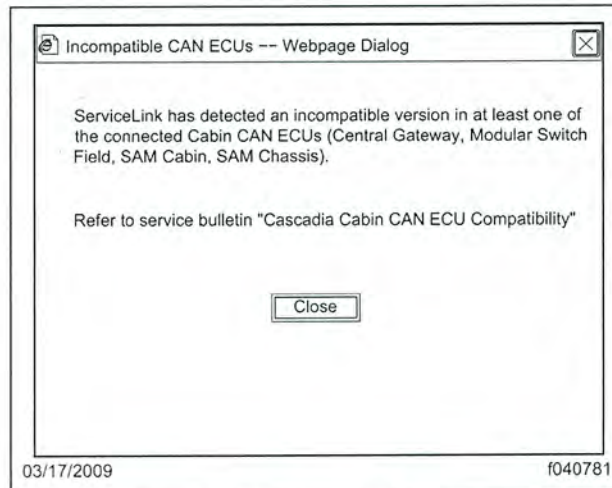


Fig. 1, ServiceLink Incompatibility Detection Dialog Box

ServiceLink Home | ECU | 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