

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 May 2012. The layout of [Table 1](#) is revised to clarify software sets.*

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.

| 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 OR 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 OR 08.40.000 A0004480627_001 | 07.24.000 A0004480523_001 | 07.36.005 A0004481861_001 |
| 5.4 | 08.17.014 A0004484758_001 OR 08.17.015 A0004484758_002 | 08.42.001 A0004480727_001 OR 09.33.000 A0004480127_001 OR 09.48.000 A0004480227_001 | 08.31.000 A0004480623_001 | 08.17.016 A0004481961_003 |

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| Compatible Sets of Cabin CAN ECU Software | | | | |
|---|---|--|---|------------------------------|
| Release | Software Version/Flash Version | | | |
| | SAM Cab | CGW | MSF | SAM Chassis |
| 6.0 | 9.31.005 A0504480258_001 | 09.33.000 A0504480127_001 OR 09.48.000 A0504480227_001 | 09.51.000 A0504480023_001 OR 10.10.000 A0504480123_001 | 09.31.005 A0504480261_001 |
| 6.2 | 11.29.005 A0504480458_001 | 09.33.000 A0504480127_001 OR 09.48.000 A0504480227_001 | 09.51.000 A0504480023_001 OR 10.10.000 A0504480123_001 | 11.29.004 A0504480461_001 |
| 5.4 with a SAM Cab 6.2 | 11.29.005 A0504480458_001 | 08.42.001 A0004480727_001 OR 09.33.000 A0004480127_001 OR 09.48.000 A0004480227_001 | 08.31.000 A0004480623_001 | 08.17.016 A0004481961_003 |
| 5.4 with a SAM Chassis 6.2 | 08.17.014 A0004484758_001 OR 08.17.015 A0004484758_002 | 08.42.001 A0004480727_001 OR 09.33.000 A0004480127_001 OR 09.48.000 A0004480227_001 | 08.31.000 A0004480623_001 | 11.29.004 A0504480461_001 |

Table 1, Compatible Sets of Cabin CAN ECU Software

Warranty

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

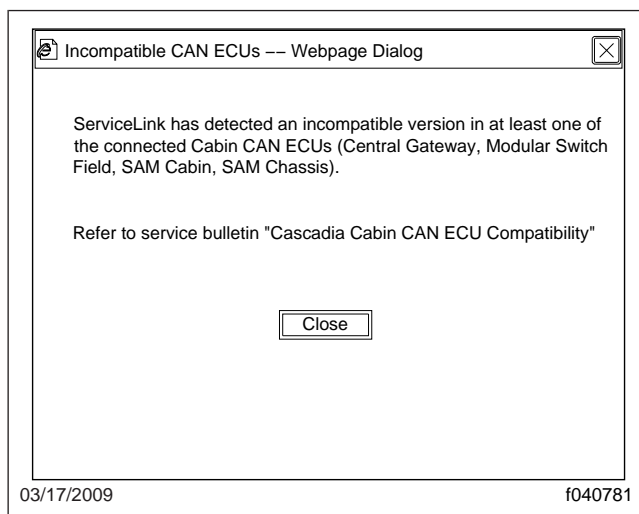
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Fig. 1, ServiceLink Incompatibility Detection Dialog Box

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" | | | | | |

03/19/2009 f040782

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

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