

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 December 2010. Information is updated to acknowledge SAM versions 6.2, new MSF software, and updated NEXIQ drivers.*

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 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 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 pertains to 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*.

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 CAN system 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.

Downgrading ECUs to older software versions to obtain compatibility is not recommended.

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	07.24.000 A0004480523_001	07.17.003 A0004481761_001
		A0004480427_001		
		08.40.000 A0004480627_001		

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Compatible Sets of Cabin CAN ECU Software				
Release	Software Version/Flash Version			
	SAM Cab	CGW	MSF	SAM Chassis
5.2	07.36.005 A0004484658_001	07.22.000	07.24.000 A0004480523_001	07.36.005 A0004481861_001
		A0004480427_001		
		08.40.000 A0004480627_001		
5.4	08.17.014 A0004484758_001	08.42.001 A0004480727_001	08.31.000 A0004480623_001	08.17.016 A0004481961_003
	08.17.015 A0004484758_002	09.33.000 A0004480127_001		11.29.004 A0504480461_001
	11.29.005 A0504480458_001	09.48.000 A0004480227_001		
6.0	9.31.005 A0504480258_001	09.33.000 A0504480127_001	09.51.000 A0504480023_001	09.31.005 A0504480261_001
		09.48.000 A0504480227_001	10.10.000 A0504480123_001	
6.2	11.29.005 A0504480458_001	09.33.000 A0504480127_001	09.51.000 A0504480023_001	11.29.004 A0504480461_001
		09.48.000 A0504480227_001	10.10.000 A0504480123_001	

Table 1, Compatible Sets of Cabin CAN ECU Software

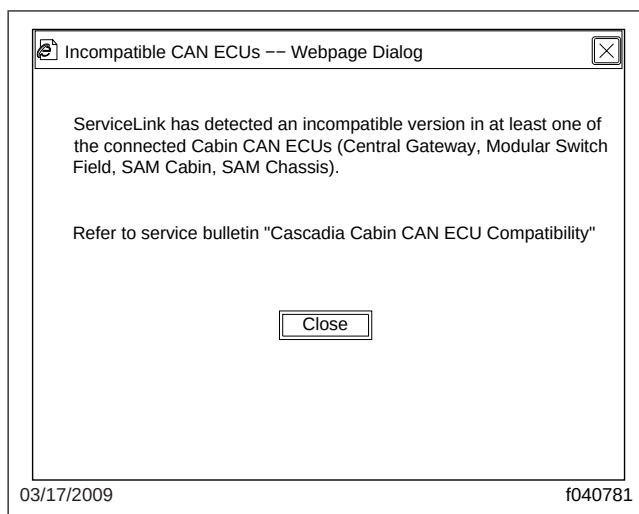


Fig. 1, ServiceLink Incompatibility Detection Dialog Box

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Sync ECU List to Host
Show ECU History

List
Central Gateway
Modular Switch Field
SAM Cabin
SAM Chassis

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
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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

Warranty

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

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