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The audio system consists of the following:

Main Components

- 4 speakers (Regular Cab)
- 6 speakers (SuperCab and SuperCrew ®)
- 4.2-inch (107 mm) non-touchscreen FCDIM
- ACM
- Audio input jack
- FCIM

Main Features

- Audio extended play (if equipped)
- Battery load shed
- MyKey ® (fleet only)
- Satellite radio (fleet only)
- Speed compensated volume

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System Operation

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A missing network message is indicated by a U-code DTC and can be the result of intermittent concerns such as damaged wiring or low battery voltage occurrences. Additionally, vehicle repair procedures such as module reprogramming can set these Diagnostic Trouble Codes (DTCs). When a missing message DTC (U-code) sets, it is important to look for symptoms present in the audio system and throughout the vehicle, and to review the complete message list to determine which other modules rely on the same message. Refer to: Communications Network .

When the other modules have been identified, run the self-test for those modules. If the same message is missing from those modules, the identical, or similar lost communication Diagnostic Trouble Codes (DTCs) may be set in those modules. Confirmation of missing messages common to multiple modules can indicate that the originating module is the source of the concern, or that the communication network may be at fault.

It is very important to understand the following:

- Where the input originates
- All of the information necessary for a feature to operate
- Which module(s) receive(s) the input or command message
- Which module controls the output of the feature
- If the module that receives the input controls the output of the feature, or whether it outputs a message over the CAN to another module.

Module Network Input Messages - ACM

Broadcast Message	Originating Module	Message Purpose
Battery saver status	BCM	Used to disable the functionality of the ACM due to the load shedding feature.
Chime request	IPC	Used to control the priority, characteristics, volume, and speaker output of the warning chime tones played through the audio system speakers.
Chime source	IPC	Used to set the audio system or IPC as the source for the chime tones.
Day/night status	BCM	Used to adjust the AM radio reception sensitivity when using the seek button.
FCIM button state	FCIM	Used to indicate when a button is pressed on the FCIM so the audio system can make the desired setting change.
Ignition status	BCM	Used to indicate the ignition state (OFF, ACCESSORY, CRANK, RUN, and START) required for ACM operating modes and fault reporting.
MyKey ® (if equipped) Belt-Minder ® audio mute	IPC	Used to mute speaker output so the Belt-Minder ® tone can be more easily heard. This message only applies to vehicles with a MyKey ® enabled and in use. The audio system is muted until the safety belt(s) are buckled.
Satellite radio (if equipped) request signals	APIM	Used to perform various satellite radio functions using the FCIM.

Turn signal lamp on request	BCM	Used to enable the turn signal tone to be played through the audio system speakers.
Vehicle configuration data	BCM	Used to verify vehicle configuration data such as the VIN and system module configuration.
Vehicle speed	ABS module	Used for the speed compensated volume function.

Module Network Input Messages - FCDIM

Broadcast Message	Originating Module	Message Purpose
ACM CD data	ACM	Used to display CD data on the FCDIM.
ACM configuration	ACM	Used to verify that the correct configuration and modules are installed.
ACM radio functions	ACM	Used to display the ACM radio functions such as seek, tune and AM/ FM stations on the FCDIM.
ACM volume and mode status	ACM	Used to display audio volume and mode status on the FCDIM.
Audio source status	ACM	Used to display the selected audio source on the FCDIM.
CD load/eject	ACM	Used to display the loaded or ejected CD status on the FCDIM.
Date and time	IPC	Used to display the current date and time on the FCDIM.
Display language selection	IPC	Used to display information on the FCDIM in the selected language.
Door ajar status	BCM	Used to determine the door ajar status for the accessory delay feature.
Ignition status	IPC	Used to indicate the ignition state (OFF, ACCESSORY, RUN, and START) required for FCDIM operating modes and fault reporting.
Illumination dimming level	BCM	Used to control the backlight intensity of the FCDIM based on the dimmer switch input.

Phone call data	APIM	Used to send phone call data to the FCDIM.
Radio broadcast band selection	ACM	Used to display the selected radio tuner band on the FCDIM.
Transport Mode	IPC	Used to disable the functionality of the FCDIM until taken out of transport mode.
Vehicle configuration/information	IPC	Used to send vehicle configuration information to the FCDIM.
Vehicle speed	PCM	Used to determine the appropriate temperature display update rate.

Module Network Input Messages - FCIM

Broadcast Message	Originating Module	Message Purpose
Audio source selection	ACM	Used to indicate the selected audio system source.
Day/night status	BCM	Used for day/night illumination status for the FCIM.
Ignition status	BCM	Used to indicate the ignition state (OFF, ACCESSORY, RUN, and START) required for FCIM operating modes and fault reporting.
Power mode	IPC	Used to disable the functionality of the FCIM due to the load shedding feature.
Vehicle configuration data	BCM	Used to verify vehicle configuration data such as the VIN and system module configuration.

Module Network Input Messages - IPC

Broadcast Message	Originating Module	Message Purpose
Audio source selection	ACM	Used to display the selected audio source on the IPC.
Display language request	APIM	Used to display information on the IPC in the selected language.
Multimedia player total play time status	APIM	Used to indicate the total play time of the audio track being played.