For additional information on chimes, Refer to: Warning Chimes - System Operation and Component Description .

## DESCRIPTION AND OPERATION > INFORMATION AND ENTERTAINMENT SYSTEM - SYSTEM OPERATION AND COMPONENT DESCRIPTION > COMPASS

The GPS antenna integral to the GPSM is used to acquire the compass heading. The compass heading is sent over the CAN to be displayed on the centerstack infotainment display.

## DESCRIPTION AND OPERATION > INFORMATION AND ENTERTAINMENT SYSTEM - SYSTEM OPERATION AND COMPONENT DESCRIPTION > DSP

The Sony ® audio system provides theater quality sound in the vehicle. Audio signals are sent from the ACM and APIM to the audio DSP module. The audio DSP module processes the audio signals and sends them to the speakers.

The audio DSP module determines the correct audio environment based on the audio signals and network messages it receives from other audio system modules. These messages include information such as fade/balance and speed compensated volume settings.

## DESCRIPTION AND OPERATION > INFORMATION AND ENTERTAINMENT SYSTEM - SYSTEM OPERATION AND COMPONENT DESCRIPTION > ESE - 2.7L GTDI AND 3.5L GTDI

ESE is an audio system feature that enhances certain engine tones typically induced under wide open throttle or heavy part-throttle conditions. The system uses a DACMC (contained within the ACM) and the audio system speakers.

The DACMC determines the engine tone to enhance based upon engine rotation speed data, engine torque data, and accelerator pedal position data from the PCM. The data from the PCM is processed and converted into an analog audio signal, transmitted to the DACMC internal tone generator, and output by the ACM to the audio DSP module as fluctuating AC voltage. The audio DSP module sends the signal to the LHF and RHF door woofer speakers as fluctuating AC voltage.

The ESE feature can be disabled (or re-enabled after disabling) through the use of programmable parameters and a diagnostic scan tool. For more information, Refer to: Module Configuration - System Operation and Component Description . See Module Configuration and Parameter Chart.

## DESCRIPTION AND OPERATION > INFORMATION AND ENTERTAINMENT SYSTEM - SYSTEM OPERATION AND COMPONENT DESCRIPTION > HD RADIO ®

HD Radio ® is a subscription-free service.

HD Radio ® technology allows an AM or FM radio station to duplicate their traditional analog channel with a matching digital channel. Some FM radio stations subdivide the digital output signal into multiple