

Parking Aid - Overview

Overview - Active Park Assist

The active park assist system is a full-assisted parking system. The system assists parking into and out (assist out of parking spots only available for parallel parking) of parking spaces. Sensors are used to detect parking spaces. The system then steers, accelerates, brakes and shifts gears as required to maneuver into or out of a parking space.

The IPMB uses input from the active park assist sensors, parking aid sensors and a geometrical equation to determine whether the vehicle fits in the parking space. If it is determined the vehicle will fit in the parking space, the IPMB requests the correct steering angles from the PSCM and the correct vehicle speed from the PCM during the parking maneuvers. The system visually and/or audibly instructs the operator to park the vehicle through messages in the centerstack infotainment display and audio system warning chimes.

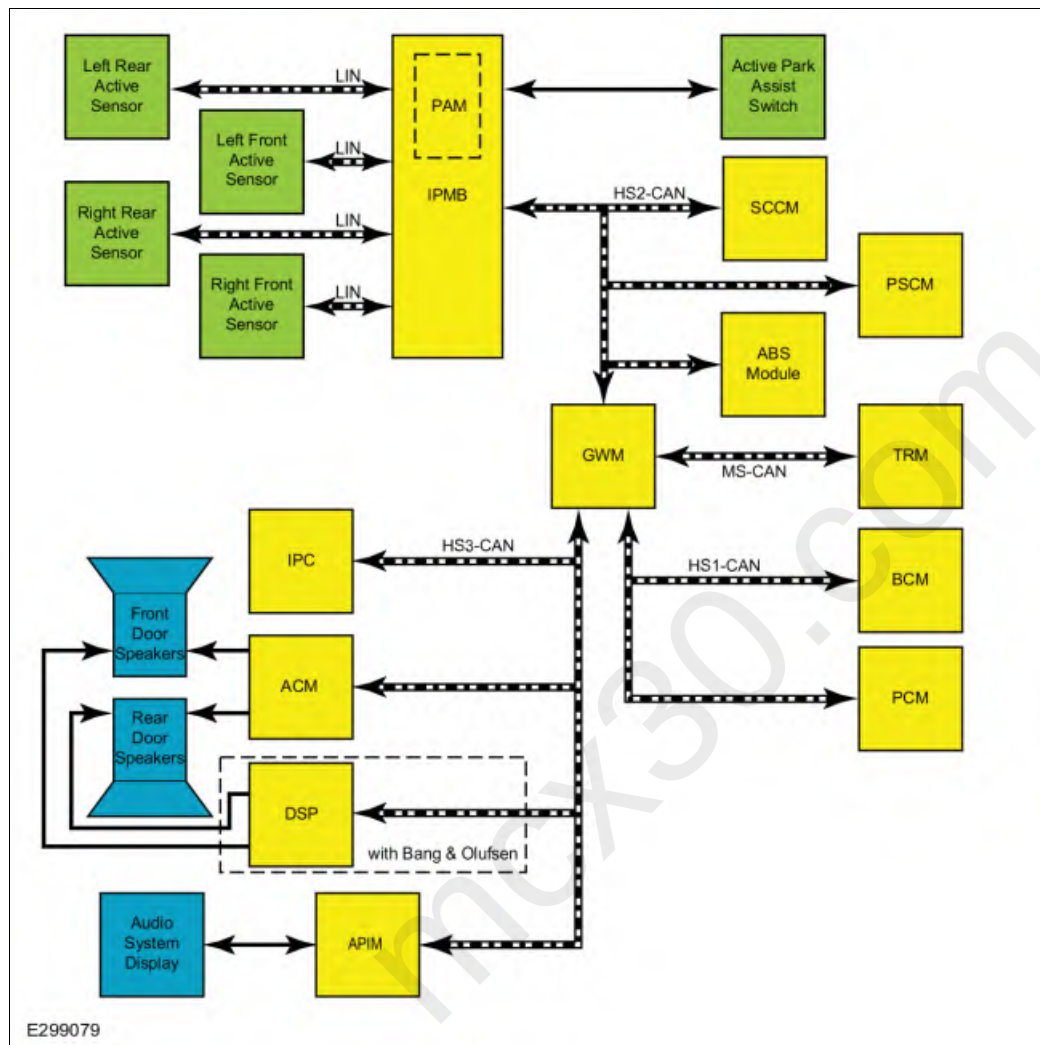
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Parking Aid - System Operation and Component Description

System Operation

Active Park Assist

System Diagram



Item	Description
1	PCM
2	IPMB
3	with Bang & Olufsen
4	GWM
5	TRM
6	APIM
7	Audio system display
8	SCCM
9	PSCM
10	ABS module
11	BCM
12	ACM