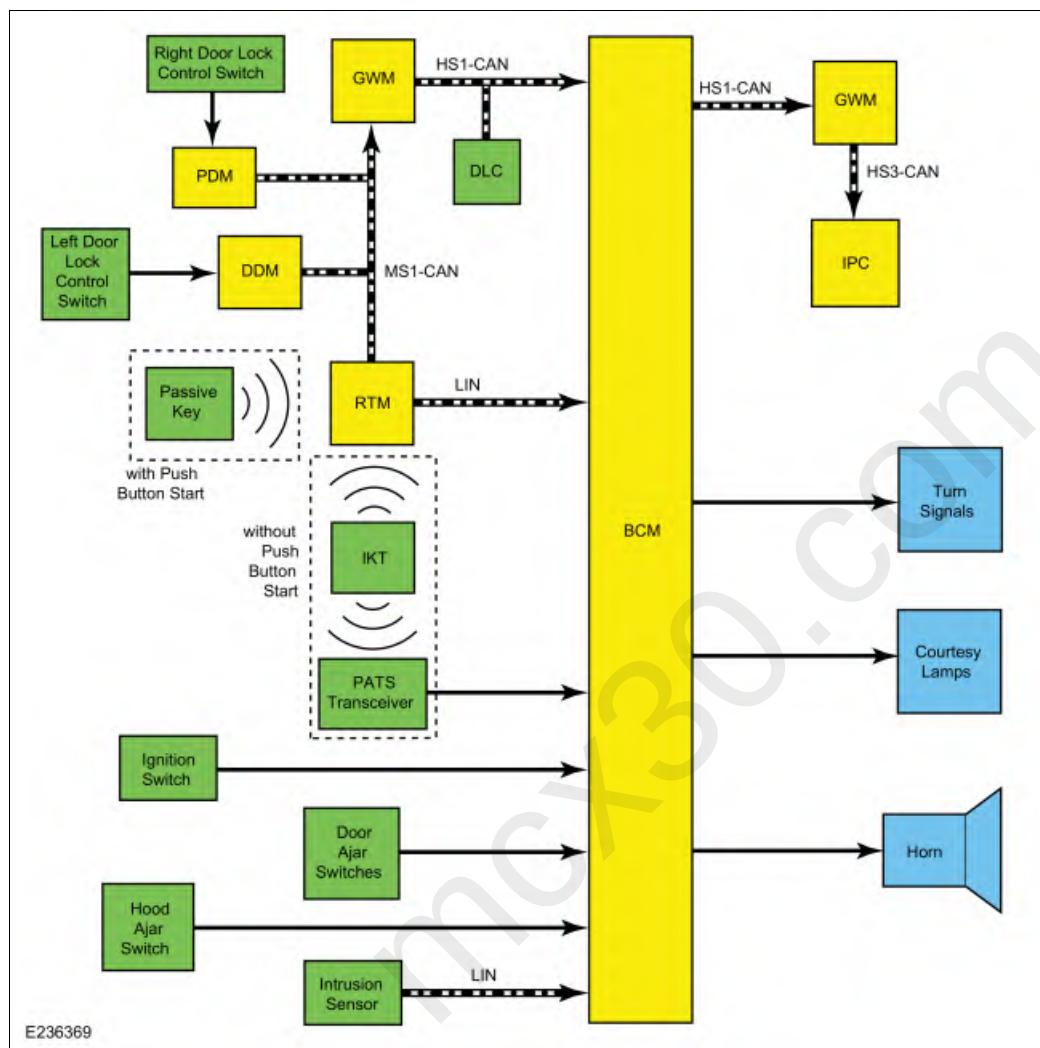


Perimeter Anti-Theft Alarm - System Operation and Component Description

System Operation

System Diagram



Item	Description
1	Turn Signals
2	Horn
3	PATS Transceiver
4	IKT
5	Door Ajar Switches
6	Hood Ajar Switch
7	Right Door Lock Control Switch
8	IPC
9	Courtesy Lamps
10	without Push Button Start
11	Passive Key
12	RTM

13	with Push Button Start
14	Ignition Switch
15	DDM
16	GWM
17	GWM
18	PDM
19	Left Door Lock Control Switch
20	BCM
21	DLC
22	Intrusion Sensor

Network Message Chart

IPC Network Input Messages

Broadcast Message	Originating Module	Message Purpose
Perimeter alarm chime request	BCM	Used by the IPC to sound the perimeter alarm chime during the 12-second delay.

BCM Network Input Messages

Broadcast Message	Originating Module	Message Purpose
RKE data	RTM	Used by the BCM to arm/disarm the perimeter alarm or to activate/deactivate the panic alarm.
Driver door lock switch status	DDM	Used by the BCM to arm the perimeter alarm.
Passenger door lock switch status	PDM	Used by the BCM to arm the perimeter alarm.

Perimeter Alarm

The BCM controls the operation of the perimeter alarm. It monitors inputs from the RKE system, the passive entry system (if equipped), the power door lock system, the PATS and the ignition status to determine when to arm the perimeter alarm.

The BCM monitors all of the door ajar switches, the hood ajar switch, the intrusion sensor, the CAN and the ignition status to determine when to activate the perimeter alarm. When the BCM detects an input indicating an unauthorized entry into the vehicle, the BCM activates the perimeter alarm by sounding the traffic horns and flashing all the turn signals and interior courtesy lamps at regular intervals.

The BCM monitors the RKE system, the passive entry system (if equipped), and the PATS to determine when to disarm the perimeter alarm.

A switch inhibit feature temporarily disables the door lock control switches and the tailgate release switch 20 seconds after the vehicle is electronically locked. For detailed information of the switch inhibit feature, Refer to: Handles, Locks, Latches and Entry Systems - System Operation and Component Description (501-14 Handles, Locks, Latches and Entry Systems, Description and Operation).

Visual and audible feedback is also provided when locking or unlocking the vehicle. For detailed information of the vehicle locking and unlocking feedback,

Refer to: Handles, Locks, Latches and Entry Systems - System Operation and Component Description (501-14 Handles, Locks, Latches and Entry Systems, Description and Operation).

CAN Protection Strategy

When the perimeter alarm is armed, the BCM monitors the CAN. If a scan tool is connected to the DLC, and an attempt is made to establish a

session with the BCM, it activates the perimeter alarm.

Component Description

Door Ajar Switch

The door ajar switch is a single pole switch monitored by the BCM. The primary function of the door ajar switch is used for the courtesy lamps system.

Refer to: Interior Lighting - System Operation and Component Description (417-02 Interior Lighting, Description and Operation).

Hood Ajar Switch

The hood ajar switch is a single pole switch (integrated into the hood latch) that is normally closed when the hood is closed. When the hood is opened, the hood ajar switch opens to indicate an open hood.

The BCM sends a signal to the hood ajar switch, and based on the input, the BCM determines if the hood is open or closed.

Intrusion Sensor

The intrusion sensor is powered and monitored by the BCM at all times. When the perimeter alarm is armed, the intrusion sensor monitors the passenger compartment for movement and, if movement is detected, it sends a signal to the BCM.

The inclination sensor is part of the intrusion sensor and is powered and monitored by the BCM at all times. When the perimeter alarm is armed, the inclination sensor monitors the vehicle for tilt or inclination from events such as significant cargo removal or addition, jacking up a wheel assembly, loading onto a tow truck, or suspension modifications causing significant front/rear ride height differences. If sufficient tilt is detected, the inclination sensor sends a signal to the BCM.

When the intrusion sensor is replaced, the LIN New Module Initialization procedure must be carried out using a diagnostic scan tool.

BCM

The BCM controls the operation of the perimeter alarm. Based on input, the BCM arms, disarms, activates or deactivates the perimeter alarm.

The BCM requires PMI when replaced. Additionally, at least 2 keys must be programmed and the parameter reset procedure carried out.
