

The supplemental braking assist feature uses the hydraulic pump motor and HCU to provide additional braking assist in the event of severe vacuum loss at the brake booster or during a severe braking event.

The ABS supports the adaptive cruise control system by applying the brakes as necessary to maintain the distance gap set by the driver. For information on the adaptive cruise control system, Refer to: Cruise Control - System Operation and Component Description .

The ABS supports the collision avoidance system by monitoring information and precharging the brake system allowing the vehicle to stop in the shortest distance possible. For information on the collision avoidance system, Refer to: Collision Warning and Collision Avoidance System - System Operation and Component Description .

The traction control system helps prevent loss of traction by reducing drive wheel spin during acceleration.

Some noise from the system and pulsations in the brake pedal are normal conditions during most ABS and stability control events. Also, longer than normal brake pedal travel may be experienced immediately following an ABS or stability control activation.

DESCRIPTION AND OPERATION > ANTI-LOCK BRAKE SYSTEM (ABS) AND STABILITY CONTROL - SYSTEM OPERATION AND COMPONENT DESCRIPTION

System Operation

DESCRIPTION AND OPERATION > ANTI-LOCK BRAKE SYSTEM (ABS) AND STABILITY CONTROL - SYSTEM OPERATION AND COMPONENT DESCRIPTION > NETWORK MESSAGE CHART

Module Network Input Messages - ABS Module

Broadcast Message	Originating Module	Message Purpose
Accelerator pedal position	PCM	This message is sent to the GWM and then to the ABS module. The ABS module uses accelerator pedal position information for correct operation of the traction control, ESC and hill start assist features.
Ambient air temperature	PCM	This message is sent to the GWM and then to the ABS module. This message informs the ABS module of the current ambient air temperature. The ABS module uses this information for calculations in determining the operational status of the various stability control systems and