

	REFER to: Rear Parking Aid Camera .
No	The system is operating correctly at this time. The concern may have been caused by a loose or corroded connector. ADDRESS the root cause of any connector or pin issues.

DIAGNOSIS AND TESTING > PARKING AID > PINPOINT TEST(S) > PINPOINT TEST P : DTC (DIAGNOSTIC TROUBLE CODE) U0121:87

Refer to Module Communications Network for schematic and connector information.

Normal Operation and Fault Conditions

The IPMB communicates with the ABS module on the HS-CAN2.

DTC	Description	Fault Trigger Conditions
U0121:87	Lost Communication With Anti-Lock Brake System (ABS) Control Module: Missing Message	Sets in continuous memory in the IPMB if expected messages from the ABS module are not received for 5 seconds or more when the ignition is on.

Possible Causes

- Communication network concern
- ABS Module
- IPMB

DIAGNOSIS AND TESTING > PARKING AID > PINPOINT TEST(S) > PINPOINT TEST P : DTC (DIAGNOSTIC TROUBLE CODE) U0121:87 > PINPOINT TEST P : DTC (DIAGNOSTIC TROUBLE CODE) U0121:87

P1 VERIFY THE CUSTOMER CONCERN

Ignition ON.

Verify whether an observable symptom is present.

Is an observable symptom present?

Yes	GO to P2
No	CLEAR the DTC. The system is operating correctly at this time. The DTC may have been set due to high network traffic or an intermittent fault condition.

P2 CHECK THE COMMUNICATION NETWORK

Using a diagnostic scan tool, perform the network test

Does the ABS module pass the network test?

Yes	GO to P3
No	REFER to: Communications Network .

P3 PERFORM THE ABS (ANTI-LOCK BRAKE SYSTEM) MODULE SELF-TEST

Using a diagnostic scan tool, perform the ABS module self-test.

Are any non-network Diagnostic Trouble Codes (DTCs) present?

Yes	DIAGNOSE all non-network Diagnostic Trouble Codes (DTCs). REFER to: Anti-Lock Brake System (ABS) and Stability Control .
No	GO to P4

P4 PERFORM THE IPMB (IMAGE PROCESSING MODULE B) SELF-TEST

Using a diagnostic scan tool, perform the IPMB self-test.

Are any non-network Diagnostic Trouble Codes (DTCs) present?

Yes	DIAGNOSE all non-network Diagnostic Trouble Codes (DTCs). REFER to the IPMB DTC Chart .
No	GO to P5

P5 RECHECK THE IPMB (IMAGE PROCESSING MODULE B) DIAGNOSTIC TROUBLE CODES (DTCs)

Using a diagnostic scan tool, clear the IPMB Diagnostic Trouble Codes (DTCs).

Ignition OFF.

Ignition ON.

Wait 10 seconds.

Using a diagnostic scan tool, retrieve the IPMB Continuous Memory Diagnostic Trouble Codes (CMDTCs).

Is DTC U0121:87 still present?

Yes	GO to P6
No	The system is operating correctly at this time. The DTC may have been set due to high network traffic or an intermittent fault condition.

P6 CHECK FOR OTHER CAUSES OF COMMUNICATION NETWORK CONCERN

CHECK the vehicle service history for recent service actions related to the ABS module or IPMB if recent service history is found:

verify correct replacement module was installed

HVBOM may be used to verify correct part fitment

verify the configuration of replacement module was correct

re-configure module using as-built data if prior configuration is suspect

verify the module was not obtained from a like vehicle and installed into customer vehicle

return the swapped module to source vehicle and obtain new replacement module

Operate the system and determine if the observable symptom is still present.

Is the observable symptom still present?

Yes	GO to P7
No	The system is operating correctly at this time. The concern may have been due to incorrect parts replacement procedures or incorrect module configuration.

P7 CHECK FOR CORRECT ABS (ANTI-LOCK BRAKE SYSTEM) MODULE OPERATION

Ignition OFF.

Disconnect and inspect all ABS module and related in-line connectors.

Repair:

corrosion (install new connector or terminals - clean module pins)

damaged or bent pins - install new terminals/pins

pushed-out pins - install new pins as necessary

Reconnect the ABS module and related in-line connectors. Make sure they seat and latch correctly.

Operate the system and determine if the concern is still present.

Is the concern still present?