

With the ignition ON, the CCM sends messages to the ABS module over the HS-CAN2. If the ABS module does not receive these messages within a certain time frame, the ABS module sets a DTC. For information on the messages sent to the ABS module by the CCM, refer to the Network Message Chart. REFER to: Anti-Lock Brake System (ABS) and Stability Control - System Operation and Component Description .

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
U0104:00	Lost Communication With Cruise Control Module: No Sub Type Information	This DTC sets in continuous memory and on-demand when any of the messages from the CCM are missing. This can be due to a CCM failure, a circuit failure or excessive load on the HS-CAN2.
U0405:41	Invalid Data Received From Cruise Control Module: General Checksum Failure	This DTC sets in continuous memory and on-demand if the ABS module receives "fault" or "unknown" information in the collision mitigation by braking messages from the CCM instead of valid checksum information.
U0405:82	Invalid Data Received From Cruise Control Module: Alive / Sequence Counter Incorrect / Not Updated	The CCM sends a rolling counter value to the ABS module. This DTC sets in continuous memory and on-demand if the rolling counter value does not increase past 1.

Possible Causes

- Network communication concern
- CCM
- ABS module

DIAGNOSIS AND TESTING > ANTI-LOCK BRAKE SYSTEM (ABS) AND STABILITY CONTROL > PINPOINT TESTS > PINPOINT TEST P : U0104:00, U0405:41, U0405:82 > PINPOINT TEST P : U0104:00, U0405:41, U0405:82

P1 CHECK THE COMMUNICATION NETWORK

Ignition ON.

Using a diagnostic scan tool, carry out the Network Test.

Does the CCM pass the Network Test?

Yes	GO to P2
No	DIAGNOSE the no communication with the CCM concern. REFER to: MODULE COMMUNICATIONS NETWORK .

P2 RECHECK THE ABS (ANTI-LOCK BRAKE SYSTEM) MODULE DIAGNOSTIC TROUBLE CODES (DTCS)

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

Clear the ABS module Diagnostic Trouble Codes (DTCs).

Ignition OFF.

Ignition ON.

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

Record the ABS module Diagnostic Trouble Codes (DTCs).

Is DTC U0104:00 retrieved again?

Yes	GO to P3
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.

P3 REVIEW THE RECORDED ABS (ANTI-LOCK BRAKE SYSTEM) MODULE DIAGNOSTIC TROUBLE CODES (DTCS)

Review the previously recorded ABS module Diagnostic Trouble Codes (DTCs).

Was DTC U3003:16 or U3003:17 recorded?

Yes	For DTC U3003:16, GO to Pinpoint Test A . For DTC U3003:17, GO to Pinpoint Test F
No	GO to P4

P4 CHECK THE CCM (CRUISE CONTROL MODULE) FOR DIAGNOSTIC TROUBLE CODES (DTCS)

Using a diagnostic scan tool, carry out the CCM self-test.

Are any battery voltage Diagnostic Trouble Codes (DTCs) present?

Yes	DIAGNOSE the CCM Diagnostic Trouble Codes (DTCs). REFER to: Cruise Control .
------------	--