

September 3, 2018

Version 1

Service Manual Update: F-CAN Bus Connected Unit Check

AFFECTED VEHICLES

| Year | Model | Trim |
|------|------------------|--------|
| 2019 | MDX Sport Hybrid | ALL |
| 2019 | RDX | ALL |
| 2019 | TLX | ALL V6 |

BACKGROUND

Some troubleshooting procedures for a loss of communication or F-CAN malfunction DTC's require running the F-CAN Bus Connected Unit Check using the i-HDS. There are certain control units that may be reported as Not Available in the Status column even though they are properly communicating.



This bulletin illustrates two scenarios that may be a concern, and how to proceed with troubleshooting in each case. Keep in mind that what you see can vary depending on the vehicle, the DTC, or the symptom being addressed.

CLIENT INFORMATION: The information in this bulletin is intended for use only by skilled technicians who have the proper tools, equipment, and training to correctly and safely maintain your vehicle. These procedures should not be attempted by "do-it-yourselfers," and you should not assume this bulletin applies to your vehicle, or that your vehicle has the condition described. To determine whether this information applies, contact an authorized Acura automobile dealer.

PROCEDURE

Scenario 1: U0100/U0122 Troubleshooting: Affected control units reading Not Available are not needed for your troubleshooting.

- 4. F-CAN circuit communication check (Transmitting control unit):
 - -1. Select the FUNCTION TEST in the CAN gateway with the HDS, then select the F-CAN Bus Connected Unit Check.

F-CAN Connection Check

-2. According to the detected DTC on the following table, make sure that the transmitting control unit detects the CAN gateway Bus channel(s) normally.

| DTC | Transmitting control unit | Detected CAN gateway Bus channel(s) at normal |
|-------|----------------------------|--|
| U0100 | PCM | A |
| U0122 | VSA modulator-control unit | A |

Is it detected normally?

| Detected normal | Intermittent failure, the system is OK at this time. Check for poor connections or loose terminals at the transmitting control unit and the CAN gateway. |
|--|---|
| U0100: PCM is Not Available for Bus A | Go to step 5. |
| U0122: VSA modulator-control unit is Not Available for Bus A | Go to step 5. |

In this scenario, **EPS CONTROL UNIT** and **GAUGE CONTROL MODULE** read **Not Available** when the unit check is finished. These two units are not needed to complete PCM and VSA modulator-control unit troubleshooting, and the PCM and VSA modulator-control unit report as **Detected normal** at this time. Troubleshooting is finished at this point since there is no longer a communication failure.

| F-CAN Bus Connected Unit Check | | | | |
|---|---------------|-------|---|--|
| Unit | Status | Bus 🔺 | 4R_CANOW_BCUC_HELP | |
| PCM | Detected | A | F-CAN Bus Connected Unit Check | |
| PRECISION ALL WHEEL STEER CONTROL UNIT | Not Available | | [Description] | |
| EPS CONTROL UNIT | Not Available | | This test checks which ECUs are connected to the F-CAN bus. For each ECU in the results list. | |
| Active Damper Control Unit | Not Available | | "Not Available" means that the ECU is not fitted to this vehicle or there is a problem with this ECU or its connection to the E-CAN | |
| SRS UNIT | Detected | A | bus. | |
| GAUGE CONTROL MODULE | Not Available | • | "Detected" means that the ECU is fitted and correctly connected to the F-CAN bus. This fording does not under with the unbick excited with | |
| SBW Shifter | Detected | A | only 1 F-CAN bus. In that case,HDS indicates "Not Available" | |
| rcu | Detected | A | about an ECOS. | |
| AWD | Not Available | | | |
| IPMS CONTROL UNIT | Detected | A | | |
| /SA Modulator Control Unit | Detected | A | | |
| ACM | Detected | A | | |
| ELECTRIC PARKING BRAKE CONTROL UNIT | Not Available | . 🔻 | | |

Scenario 2: U0131 Troubleshooting: The affected control units reported as **Not Available** are needed for your troubleshooting.



In this scenario, communication with a control unit that is reporting as **Not Available** can be confirmed by selecting the applicable system from the **System Selection Menu** in the i-HDS. If the system is available and communicating, it will be highlighted. In this case, **EPS** and **Body Electrical** are available. If the system is not communicating, it will be grayed out as shown.

| | A 19 | * ? 🔇 |
|---|-------------------------------------|--|
| Vehicle Selection System Selection Menu | | |
| System Selection Menu | | |
| Refer to Service Manual for more information. | | |
| ▼: Selected | : Not equipped or not communicating | |
| PGM-FI | AT | SRS |
| IMMODE | AB5/VSA | EPS |
| Electric Powertram | vitse | Body Electrical |
| TPMS | SH-AWD | Brake System |
| Active Damper System/Adaptive Damper System | One-Push Start | Real Time AWD/AWD with Intelligent Control |

From here you can select either system and confirm the communication.

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|---|--|--|
| Vehicle Selection > System Selection Menu > EPS > | Vehicle Selection > System Selection Menu > Gauges > | |
| Test Mode Menu | Test Mode Menu | |
| DTCs/Freeze Data | > Force > | |
| 🔯 Data List | > 🛛 Data List | |
| Snapshot | Snapshot | |
| Adjustment | Function Test | |
| | Adjustment > | |
| | Customize Reset | |
| | | |
| | | |
| | | |

Once confirmed, keep following the service information troubleshooting. If the system is available and communicating, select **Detected normal**. If it is grayed out or not communicating, select the applicable **Not Available** response.

END