HONDA

September 3, 2018

Version 1

Service Manual Update: F-CAN Bus Connected Unit Check

AFFECTED VEHICLES

Year	Model	Trim
2018-19	Odyssey	ALL
2019	Pilot	LX, EX, EX-L, EX-L With Navigation
2019	Ridgeline	RTL-E and Black Edition

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.

CUSTOMER 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 Honda automobile dealer.

PROCEDURE

Scenario 1:

U0100: Power Control Unit (Body Control Module) Lost Communication with PCM

U0122: Power Control Unit (Body Control Module) Lost Communication with ABS/VSA Modulator-Control Unit

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-CA	N Bus Connected Unit Che	ck	
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 F-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 function does not work with the vehicle which equipped with
SBW Shifter	Detected	А	only 1 F-CAN bus. In that case,HDS indicates "Not Available" about all ECUs
тси	Detected	A	about an ECOS.
AWD	Not Available	-	
TPMS CONTROL UNIT	Detected	A	
/SA Modulator Control Unit	Detected	A	
ACM	Detected	A	
ELECTRIC PARKING BRAKE CONTROL UNIT	Not Available		

Scenario 2:

U0131: Gauge Control Module Lost Communication with EPS Unit

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.

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▶ 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			
SMMORE	ABS/VSA	EPS			
Electric Powerbrain		Body Electrical			
TPMS	SH-AWD	Brake System			
Active Damper System/Adaptive Damper Sy	One-Push Start	Real Time AWO/AWD with Intelligent Cabirol	Real Time AWD/AWG 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
TCs/Freeze Data	> Contraction >
🔯 Data List	> 🛛 Data List
Snapshot	Snapshot
Reference and the second secon	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