# HONDA

# Job Aid

September 2021

Version 3

# **MOST Bus Network: Overview, Troubleshooting, and Repairs**

Supersedes Version 2, dated September 2021, to revise the information highlighted in yellow.

#### **APPLIES TO**

| Year           | Model    | Trim Level |
|----------------|----------|------------|
| 2018 and later | Odyssey  | ALL        |
| 2019 and later | Passport | ALL        |
| 2019 and later | Pilot    | ALL        |

#### **REVISION SUMMARY**

Under MOST Electronic Control Line (ECL) Diagnostic Mode, information was revised.

#### **BACKGROUND / INTRODUCTION**

This job aid contains information on the MOST Bus Network and troubleshooting information for common problems.

NOTE: This job aid replaces the following publications and Tech2Tech video segments:

- Service Bulletin 19-097, Service Manual Update: MOST Bus Network Failure Log
- Service News, Popping or Crackling from the Speakers? Check the MOST Bus Network
- Job Aid, Using the MOST Connector Tools
- Tech2Tech Segment, Get to Know the MOST Connector Tools
- Tech2Tech Segment, A Look at MOST Bus Network Connectors
- Tech2Tech Segment, Let's Talk MOST Bus Network and ECL Diagnostics
- Tech2Tech Segment, Check Out the MOST Bus Network Failure Log

#### TOPICS COVERED

| MOST Bus Network Overview                                | Page 2  |
|--|---------|
| MOST Electronic Control Line (ECL) Diagnostic Mode       | Page 5  |
| MOST Bus Network Failure Log                             | Page 14 |
| Proper Connector Inspection & Harness Routing Procedures | Page 18 |
| Using the Most Connector Tools                           | Page 25 |

#### **MOST BUS NETWORK OVERVIEW**

The Media Oriented Systems Transport or MOST Bus Network is used for high-speed bandwidth communication between the audio/visual system components on certain Honda models. This is a serial network and is configured in a ring structure that links one component to the next like a daisy chain that passes data in a single direction. A bus is used for communicating audio, video, and control signals to each unit in the network.

Below are examples of the MOST Bus Network.

#### Odyssey



#### Passport



The gauge control module acts as the gateway in the MOST Bus Network. Each control unit on the network has transmitting and receiving coaxial cables and the electronic control line (ECL). The transmitting, known as a TX connector, is green in color, and the receiving, known as a RX connector, is red in color. Any open connections or shorts in the network wiring will cause audio and visual system functions to be inoperative.



Within the TX and RX connections, there are the TX+ / TX- and the RX+ / RX- terminals. The "+" indicating the information line and the "-" indicating the shielding ground.



#### MOST ELECTRONIC CONTROL LINE (ECL) DIAGNOSTIC MODE

A typical failure in the MOST Bus Network will cause a no-response condition from the infotainment system with the center display unit going blank. Any component or connection failures within the network can cause this condition. If you see any audio functions or information in the gauge control module, the blank screen may just be a display issue and not a network failure.

When a failure occurs, it will be necessary to locate where in the network the failure occurred. To help you do this, a MOST Bus Condition, commonly known as the ECL diagnostic mode, is available in the gauge control module.

NOTE: The ECL diagnostic mode is only helpful if the network has a hard failure. Do not enter this mode if the network has an intermittent failure. For intermittent failures, proceed to the MOST Bus Network Failure Log on **page 14**.

To start the ECL diagnostic mode, do the following:

- 1. Close all doors and the tailgate.
- 2. Turn the vehicle to the ON mode.
- 3. Using the steering wheel controls, scroll and select **Settings** on the multi-information display.



4. While displaying the settings screen, press and hold the **HANG-UP** button and then the **ENTER** button until the MOST bus diagnosis screen below is displayed.





#### How to read the display

The table below shows the meaning of the indicators.

| Symbol |    | Status  |
|--------|----|---|
|        | ОК | The power or MOST signal status is OK at this time.   |
| ×      | NG | <ul><li>The component lost power or cannot receive a MOST signal.</li><li>The component is not connected to the module using the bus.</li></ul> |

The Pwr (Power) column shows if each component is online or not.



The Sig (Signal) column shows if the component is receiving a signal.



When using the ECL diagnostic mode, it is important to understand the network structure for the model you are working on. Always refer to the network chart found in the service manual to identify the network's communication flow in direction.



This network chart can be found in service information. First, select the model and year. Then, enter "MOST Bus Diagnostics Mode" in the keyword search. From the search results, click on Audio and Visual System Most Diagnostics Mode.

| ODYSSEY   | <b>v</b> 2018     | ~        | Most Bus Diagnostics Mode | Search                     |
|---|-------------------|----------|---------------------------|----------------------------|
| Showing 1 - 20 of 1,992<br>Most Bus Diagnostics M | ode × Market ×    | US ×     | Clear all                 | Sort by <b>Relevance</b> + |
| (i) HONDA Audie                                   | and Visual System | Most Bus | Diagnostics Mode          | Ω                          |

#### Scroll down towards the bottom for the chart.

| Service Information  |       |                |   |   |                |
|--|-------|----------------|---|---|----------------|
| Vehicle General Information  |       | =14            | 17  |   |                |
| Engine   | A     | udio and       | d Visual                                    | I System Most Bus Diagnostics Mode 6385   |                |
| Fuel and Emissions   | 20    | 15-2022 Od     | symbol                                      | Status  |                |
| <ul> <li>Suspension</li> </ul>   |       |                | GRE   | EN The power or MOST signal status is OK at this time.  |                |
| <ul> <li>Brakes</li> </ul>   |       | $\sim$         | (OK   | K)  |                |
| Trans/Driveline  |       |                | REC   | <ul> <li>The control unit lost the power or cannot receive MOST signal. If the control unit lost the power or cannot receive MOST signal.</li> </ul>                        | trol unit lost |
| <ul> <li>Steering</li> </ul>   |       | X              | (NG   | G) the power, both the PWR and SIG symbol indicates it.   |                |
| + HVAC   |       |                |   | <ul> <li>If the unit is not equipped to the vehicle, or is not connected to the modul<br/>bus, both the PWR and SIG symbol indicates it.</li> </ul>                         | le using the   |
| <ul> <li>Driving Support &amp; Restraints</li> </ul>                         |       |                |   |   |                |
| ▼ Body   |       | Check for      | Pwr and S                                   | Sig indication pattern.   |                |
| <ul> <li>12 Volt Battery Management System</li> </ul>                        |       | Indication     | n Pattern                                   |   |                |
| <ul> <li>Audio/Visual and Communication Systems</li> </ul>                   |       | Pwr            | Sig   | Solution  | this lines     |
| <ul> <li>General Information, Specifications, System Descriptions</li> </ul> |       |                | $\sim$                                      | If an control units indicate this pattern, the power and wors i signal status are ok at   | uns unite.     |
| Audio and Visual System Description (18 Display Audio 1                      |       | -              | -   | -   |                |
| Audio and Visual System Description (18 Color Audio Ty)                      |       |                |   | <ul> <li>The unit is online but is not receiving signal on the network.</li> <li>Check for MOST TX+MOST RX+ and MOST TX-MOST RX- lines between the</li> </ul>               | last control   |
| Audio and Visual System Description (19-22 Color Audio                       |       | $\sim$         | $\mathbf{x}$                                | unit in the MOST ring to receive signal and the first with this status.   |                |
| Audio and Visual System Description (19-22 Display Aud                       |       |                | -   | <ul> <li>If the wire is OK, substitute each component to a known-good one, and recheck:</li> </ul>  |                |
| Audio and Visual System Description - System Diagram                         |       |                |   | Check for ground circuit for the RED symbol control unit.   |                |
| Audio and Visual System Description - System Diagram                         |       |                | $\sim$                                      | <ul> <li>If the wires are OK, the control unit internal power circuit may be faulty. Substitut<br/>good control unit, and recheck.</li> </ul>                               | le a known-    |
| Audio and Visual System Description - System Diagram                         |       |                | -   | The control unit is either offline or not equipped.   |                |
| Audio and Visual System Description - System Diagram                         |       |                |   | Check for power and ground circuits for the control unit.   |                |
| Audio and Visual System Error Codes  |       |                |   | <ul> <li>If the wires are OK, substitute a known-good control unit, and recheck.</li> </ul>   |                |
| Audio and Visual System Most Bus Diagnostics Mode                            | Ш.е   |                |   |   |                |
| How to Troubleshoot the Audio and Visual System                              |       | NOTE: Th       | e units dis                                 | splayed in the multi-information display (MID) are not listed in the correct orientation on<br>Ion discourses to bein determine which podes are receiving and transmittion. | the MOST       |
| Component Locations  |       | ing. Use       | one rollowith                               | ry wegens to reprove the most roved are receiving and parts interg.   |                |
| <ul> <li>Repair Procedures, Tests</li> </ul>                                 |       |                |   | MOST two (Active) Skip the unit with which is not equ<br>15 With 11 speakers  | vipped.        |
| Troubleshooting  |       |                |   | MOST Dos (Net active)     2 With 7 spiniters     100ST DOL     12 Without may anterbalament     Without may anterbalament. with   | ith CD player  |
| <ul> <li>Wiring Diagrams, Connector Views, Circuit Descriptions</li> </ul>   |       |                | Example:<br>For the vehicle<br>MOST TX/RX I | in with 11 speakers,<br>free beforem  |                |
| <ul> <li>Active Noise Cancellation (ANC)</li> </ul>                          |       |                | the scareo amp<br>the RES control           | utiliar sacr  |                |
| <ul> <li>Active Sound Control</li> </ul>                                     |       |                | - E   | RES CONTROL UNT-  |                |
| Antenna  |       |                |   |   |                |
| Audio Components   |       | Γ              | ATTROOM                                     | Dispositi Screen 80 PLATES UNT  |                |
| HandsFreeLink System   |       | L              |   | Per Sig<br>CO PLATER UNIT-  |                |
| <ul> <li>OTA System</li> </ul>   |       |                | t   | 2 Birfotainment   |                |
| Rear Entertainment System  |       |                | - I   | Ø ∉ Anglifter<br>Ø Ø Remote Tuner   |                |
| Rearview Camera System   |       |                | - I   |   |                |
| Speakers   |       |                |   |   |                |
| Telematics System  |       |                | TUNER UNT                                   | IT" INFOTAIMENT CONTROL<br>INFOTAIMENT CONTROL  | UNIT           |
| Doors  |       | L              |   | $\rightarrow$ $\rightarrow$ $\leftarrow$  |                |
| Exterior   |       |                | T   | GAUGE CONTROL MODULE  |                |
| Frame  |       |                | _   |   |                |
| Gauges   | 11 -  |                |   |   |                |
| Indicators   | Bo    | dy   Audio/    | Visual an                                   | nd Communication Systems  |                |
| (d )   | C Get | nerat triforma | mon, Speci                                  | incations, System Descriptions  |                |

Once you identify the communication flow, use the EWD to identify what components are equipped on the particular model you are working on. To do this, go to the EWD. After choosing the trim or entering the VIN, go to Schematics, Body, Multiplex Integrated Control System, then click on MOST Communication Line.



Since the EWD does not show a ring structure, use the network chart from the service manual to visualize the network communication flow.

NOTE: Use this same procedure to find the network chart and the MOST communication line schematic in the EWD for the MOST Bus Network Failure Log procedure on **page 14**.

Based on the network chart, the network communication flow can be visualized like below.



| NOTE: The com | ponent names betweer | the service manua | I and the display | will not match. | Refer to the following | table. |
|---------------|----------------------|-------------------|-------------------|-----------------|------------------------|--------|
|               |                      |                   | and and alopiay   | min not matorn  | i to the following     | cabio. |

| ECL Diagnostics Name | Service Manual Network Chart Name |
|----------------------|-----------------------------------|
| Meter                | Gauge Control Module              |
| Infotainment         | Infotainment Control Unit         |
| Amplifier            | Stereo Amplifier                  |
| Remote Tuner         | Tuner Unit                        |
| Optical Disc Player  | BD (Blue Ray) or CD Player        |
| Telematics           | Telematics Control Unit           |
| Rear Infotainment    | RES Control Unit                  |
| Tuner Amplifier      | Tuner-Amplifier Unit              |
| Camera               | Rearview Camera                   |

The table below shows the different combinations of indicator patterns.

| Pwr          | Sig | Description or Probable Cause  |
|--------------|-----|--|
| $\checkmark$ |     | The power and MOST signal status is OK at this time.   |
|              |     | The component is online but is not receiving signal on the network.  |
| $\checkmark$ | ×   | <ul> <li>Check the TX+ / RX+ and TX- / RX- lines between the previous control unit in the MOST<br/>network ring.</li> </ul>  |
|              |     | Check the wires and connector terminals. If they are OK, install a known-good component and retest.  |
|              |     | Check the ground circuit of the indicted component.  |
| ×            |     | Check the wires and connector terminals. If they are OK, the component's internal power circuit may be faulty. Substitute a known-good component and retest.                               |
|              |     | The component is either offline or not equipped.<br>NOTE: If all components indicate double dashes, the MOST ECL line may be shorted.  |
| ×            | ×   | • Check the network chart to confirm if the component is part of the network. The model and trim you are working on may not be equipped with that component or is not part of the network. |
|              |     | Check the power and ground circuit for the indicated component.  |
|              |     | Check the wires and connector terminals. If they are OK, the component's internal power circuit may be faulty. Substitute a known-good component and retest.                               |

NOTE: The infotainment control unit must never be substituted with a known-good unit as it will cause telematic network problems.

In this first example, the following components reported a power problem and signal problem or just a signal problem.

| Dur   | Cia        |                     | <b>ECL Diagnostics Name</b> | Service Manual Network Chart Name |
|---|------------|---------------------|-----------------------------|-----------------------------------|
| Pwr   | Sig        | Motor               | Meter                       | Gauge Control Module              |
| <b>X</b>  | ×          | Infotoiomont        | Infotainment                | Infotainment Control Unit         |
| 2   | ø          | Infotainment        | Amplifier                   | Stereo Amplifier                  |
| 8   | 8          | Amplifier           | Remote Tuner                | Tuner Unit                        |
| 8   | 8          | Remote Tuner        | Optical Disc Player         | BD (Blue Ray) or CD Player        |
| <ul> <li>Image: A start of the start of</li></ul> | <b>S</b>   | Optical Disc Player | Telematics                  | Telematics Control Unit           |
| 8   | 8          | Telematics          | Rear Infotainment           | RES Control Unit                  |
| <ul> <li>Image: A start of the start of</li></ul> | $\bigcirc$ | Rear Infotainment   | Tuner Amplifier             | Tuner-Amplifier Unit              |
| 0   | 0          | Tuner Amplifier     | Camera                      | Rearview Camera                   |
|   | -          |                     |                             |                                   |

First, focus on the components that reported both a power and signal problem. Go to the applicable EWD and check to see if these three components are equipped on the model you are working on.



By checking the EWD, the amplifer (stereo amplifier), remote tuner (tuner unit) and telematics (telematics control unit) are not equipped for the model and trim level you are working on and can be ignored. That leaves the meter (gauge control module) and the infotainment (infortainment control unit).

| ECL Diagnostics Name | Service Manual Network Chart Name |
|----------------------|-----------------------------------|
| Meter                | Gauge Control Module              |
| Infotainment         | Infotainment Control Unit         |
| Amplifier            | Stereo Amplifier                  |
| Remote Tuner         | Tuner-Unit                        |
| Optical Disc Player  | BD (Blue Ray) or CD Player        |
| Telematics           | Telematics Control Unit           |
| Rear Infotainment    | RES Control Unit                  |
| Tuner Amplifier      | Tuner-Amplifier Unit              |
| Camera               | Rearview Camera                   |

When a problem occurs in the network, it means that there is a problem at both the reporting component and the previous one in the network.

First, the gauge control module reported a problem. Looking at the circuit, the previous component is the infotainment control unit.



Second, the infotainment control module also reported a problem. Looking at the circuit, the previous component is the BD player. This means that the circuit from the BD player to the gauge control module needs to be checked.



As mentioned in the MOST Bus Network Overview section, the MOST network is configured in a ring structure where information is past from one component to another in a single direction. However, the gauge control module acts as the gateway of the network where the information starts and ends at gauge control module. This is why in the example, the circuit from the gauge control module, to the tuner-amplifier unit, to the RES control unit, then to the BD player unit is not affected.

When encountering these types of network problems, always start at the beginning of the problem. In this example, start checking the connections at connector B of the BD player unit and work your way along the circuit until you find the problem. In conclusion, troubleshooting found a bad connection at connector D of the infotainment control unit.



In this next example, the ECL diagnostics results shows the meter, telematics and tuner amplifer reporting problems. After checking the EWD, the telematics (telematic control unit) and the tuner amplifier (tuner-amplifier unit) is not equipped on the vehicle, leaving only the meter (gauge control module).

| Dun   | Sia      |                           | ECL Diagnostics Name | Service Manual Network Chart Name |
|---|----------|---------------------------|----------------------|-----------------------------------|
|   |          | Meter                     | Meter                | Gauge Control Module              |
| ž   | 8        | Infotainment              | Infotainment         | Infotainment Control Unit         |
|   | X        | Amplifier                 | Amplifier            | Stereo Amplifier                  |
| <b>X</b>  | ×.       | Ampinter<br>Demote Turner | Remote Tuner         | Tuner Unit                        |
| <b>2</b>  | <b>2</b> | Remote Tuner              | Optical Disc Player  | BD (Blue Ray) or CD Player        |
| <b>2</b>  | 2        | Optical Disc Player       | Telematics           | Telematics Control Unit           |
| 8   | 8        | Telematics                | Rear Infotainment    | RES Control Unit                  |
| <ul> <li>Image: A start of the start of</li></ul> | <b>e</b> | Rear Infotainment         | Tuner-Amplifier      | Tuner-Amplifier-Unit              |
| 8   | 8        | Tuner Amplifier           | Camera               | Rearview Camera                   |
|   |          |                           |                      |                                   |

Looking at the EWD, the previous component to the gauge control module is the stereo amplifer.



Troubleshooting this circuit revealed a bad connection at inline connector C202.



## Video For a video on ECL diagnostics, click on this link.

#### **MOST BUS NETWORK FAILURE LOG**

Whenever a problem occurs in the network, the information of the failure is captured in a log. This failure log is primarily meant to be used during troubleshooting intermittent network failures.

These failures may range from:

- Complete signal loss and a blank screen on the center display unit.
- Popping or crackling noise from the speakers.

The failure log lists each failure by date, time, and type.

| Shutdown Rea          | RETURN                 |       |  |
|-----------------------|------------------------|-------|--|
| EXP                   | Q <b>U</b> T           | CLEAR |  |
| 2019-07-14 07:02:12   | Meter SUDDEN_SIGNAL_OF | FF    |  |
| 2019-07-14 07:00:36 I | Meter SUDDEN_SIGNAL_OF | ∓F    |  |
| $\uparrow$            | $\uparrow$             |       |  |
| Time                  | Failure Type           |       |  |
|                       |                        |       |  |
|                       |                        |       |  |
|                       |                        |       |  |
|                       |                        |       |  |
|                       |                        |       |  |

There are two failure types:

- SUDDEN\_SIGNAL\_OFF: This failure is for a temporary or complete loss of signal on the network.
- CRITICAL\_UNLOCK: This failure is for electrical noise on the network.

This log also identifies which control unit on the MOST Bus Network recorded the failure. The recording control unit tells you the failure occurred between that control unit and the previous one on the network. This log can hold up to 10,000 failures, with the most recent events at the top.

Follow these steps to access the logs.

- 1. Turn the vehicle to the ON mode.
- 2. Press and hold the VOL/Power AUDIO knob, **Day/Night** icon, and **HOME** icon at the same time. Hold these buttons until the Dealer Diagnostics menu screen appears.

#### ODYSSEY



#### PASSPORT AND PILOT



3. Select DETAIL INFORMATION & SETTING.



4. Scroll down the menu and select SHUTDOWN REASON then the failure log will appear.

| D               | etail Information & Setting | g RETURN              |   |
|-----------------|-----------------------------|-----------------------|---|
|                 | FUNCTIONAL SETUP            | CB SW/HW TRACEABILITY |   |
| BOOTLOADER INFO |                             | CAR STATUS            |   |
|                 | HARDWARE AUTO-DETECT        | TEMPERATURE           |   |
|                 | OTA DTC SHUTDOWN            |                       | N |

Look for the most recent event on the list. In the example below, the cause of the intermittent failure can be identified as **Meter:SUDDEN\_SIGNAL\_OFF**, dated 2019-07-14 with a time stamped 07:02:12. There was a complete loss of signal between the gauge control module and the previous transmitting component on the network.



Similar to the MOST Electronic Control Line (ECL) Diagnostic Mode procedure, you must determine the network flow and the previous component to the reported failed component. In this case, the previous component to the gauge control module is the stereo amplifier, and troubleshooting will focus on the circuit between the two components.



#### **System Limitations**

Below are things to remember when reviewing the logs:

- Will only show reported failures, not current ones.
- May not report speaker popping noises.
- Will not record during a permanent network failure and cannot be accessed during that time. In the event of a current network failure, use the MOST Electronic Control Line (ECL) Diagnostic Mode on **page 5**.

#### After Repairs

After repairs are completed to the network, be sure to clear the failure logs. This can only be done through the failure log screen by pressing the CLEAR button.



#### Video

For a video of how to view the logs and how to interpret them, click on this link.

NOTE: The video references the service bulletin, 19-097 Service Manual Update: MOST Bus Network Failure Log which has been replaced with this job aid.

#### **PROPER CONNECTOR INSPECTION & HARNESS ROUTING PROCEDURES**

As previously described, some of the symptoms the customer may experience are popping or crackling noises from the speakers, a blank center display unit, or the sound cutting off. After performing the ECL diagnostics or the MOST Bus Failure Log and narrowing down the area to inspect, you need to inspect for proper connections of the MOST coaxial connectors and proper harness routing.

#### Connectors

There are three types of connectors you will find in the network. These connectors are commonly known as FAKRA connectors and will be referenced as such in various Honda publications and training materials.

| Connector Image | Connector Style | Color | Purpose      |
|-----------------|-----------------|-------|--------------|
|                 | Straight        | Red   | Receiving    |
|                 | Straight        | Blue  | Inline       |
|                 | 90° Straight    | Green | Transmitting |
|                 | 90° Offset      | Green | Transmitting |

Due to their design, it is important that the connectors are installed properly and any external forces, such as from the wire harness, do not contribute any tension. The tension created on the connector terminal such as a bad wire harness routing will create a condition known as side loading. Here are some examples:

#### No tension on the harness, no side load



Harness tension at 45 and 90 degrees creating side load. The terminal will spread at the gap.



NOTE: The various service bulletin repair procedures available on SIS related to repair MOST-related problems will have you install a new terminal to help avoid terminal spreading. However, it is important to still make sure that the harness wire and connectors are installed back to their original condition.

The following are some examples of mis-installed connectors and incorrect wire harness routing.

#### Example 1

The green connector sits correctly, perpendicular to the control unit, while the red connector sits at an angle caused by tension on the wire harness.



Below is another example of tension on a connector causing the green connector to sit an angle.



In both examples, the connector is considered damaged, and the wire harness must be replaced. These connectors **are not** repairable.

#### Example 2

One wire is mis-routed causing tension to the green connector. To repair this, disconnect the MOST connector and reroute the harness wire to remove the tension.



Below are more examples of incorrect harness mis-routing.





MOST



UNR MIS-ROUTING ROU













#### Example 3

The MOST service cord was not installed as instructed in service bulletin 21-012, *Warranty Extension: 2019–20 Passport/Pilot MOST Bus Network Connectors*. If you encounter this, install the service cord as described in the service bulletin, then install the wires so that they are not pinched or tensioned.



### Example 4

The updated terminal is correctly installed onto the green FAKRA housing but not on the red one. The connector was installed 90 degrees off and was not engaged to the locking tabs.



#### Example 5

The wire is not fully seated into the new terminal. The edge of the wire must sit with the edge of the updated terminal.





When inserting the wire into the new terminal, make sure you hear a click to ensure it is fully seated.



The previous examples shown can cause failures in the network. For additional examples of good harness routing, refer to the following service bulletins.

| Service Bulletin Number | Service Bulletin Title  |  |
|-------------------------|---|--|
| 20-049                  | 2021 Odyssey: Popping or Crackling from the Speakers; No Sound from the Audio System; Network Loss Message and/or Display Issues        |  |
| 20-058                  | 2021 Passport/Pilot: Popping or Crackling from the Speakers; No Sound from the Audio System; Network Loss Message and/or Display Issues |  |
| 21-012                  | Warranty Extension: 2019-20 Passport/Pilot MOST Bus Network Connectors  |  |
| 21-013                  | Warranty Extension: 2018–20 Odyssey MOST Bus Network Connectors   |  |

#### Video

For additional information on poor connections, click on this link.

#### **USING THE MOST CONNECTOR TOOLS**

This section contains information on tools to help you remove the connectors on various units within the MOST bus network. Honda highly recommends using these tools when removing the connectors to prevent damage to both the connector and the terminal. If either are damaged, the harness must be replaced.

#### **Tool Information**

| Tool Image | Tool Name                | Tool Number   |
|------------|--------------------------|---------------|
|            | STRAIGHT FAKRA PULLER    | 07AAC-THRA200 |
|            | 90 DEGREE FAKRA A PULLER | 07AAC-THRA100 |
|            | 90 DEGREE FAKRA B PULLER | 07AAC-TJBA100 |

#### **Tool Usage**

Before unplugging a MOST connector, note the orientation of the harness leading to it and make sure to install it the same way. A mis-routed harness can cause the connector to not seat properly, resulting in network problems.

#### STRAIGHT FAKRA PULLER (T/N 07AAC-THRA200)



1. Slide the tool over the rear of the connector. Make sure the ramps inside of the tool push on the locking tab of the connector.



2. Once you feel it click into place, the tool is fully seated. Pull straight back to release the connector.



3. Remove the connector from the tool. Rotate the bottom of the connector (opposite the lock tab) out first. This will avoid the lock tab catching on the tool.



## 90 DEGREE FAKRA B PULLER (T/N 07AAC-TJBA100)



1. Install the tool from the side, allowing the lower part of the tool to reach behind the connector.



2. Squeeze both sides of the tool to unlock the connector, then pull straight back.



# 90 DEGREE FAKRA A PULLER (T/N 07AAC-THRA100)

NOTE: Use this tool for removing 90° connectors in tight areas such as the Odyssey RES Control Unit behind the glove box.



1. Install the puller.



2. Rotate the puller.



3. Firmly hold the base of the tool and press down on the ball to disconnect the locking tabs on the connector.



4. While holding down the ball, slide off the connector.



#### Video

For a video of how to use these tools, click on this link.

NOTE: The video references the job aid, Using the MOST Connector Tools, have been replaced with this job aid.

END