



# Technical Service Bulletin

SUBJECT:		No: <b>TSB-19-42B-003</b>	
<b>UPDATED DIAGNOSTICS FOR ETACS-ECU DTC U0141 - SERVICE MANUAL REVISION</b>		DATE: <b>March 2019</b>	
		MODEL: <b>See below</b>	
<b>CIRCULATE TO:</b>	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input type="checkbox"/> WARRANTY PROCESSOR	<input type="checkbox"/> SALES MANAGER

## PURPOSE

This TSB updates the Body section of the affected Service Manuals to update diagnostics for ETACS-ECU CAN timeout with DTC U0141.

The change detailed on pages 2 and 3 may also apply to the following groups of the affected Service Manuals listed below, all groups containing diagnostics for DTC U0141.

- Group 13-Fuel (Multiport Fuel Injection [MFI])
- Group 17-Engine and Emission Control
- Group 23-Automatic Transmission
- Group 27-Rear Axle
- Group 35-Service Brakes
- Group 36-Parking Brake
- Group 37-Steering
- Group 52B-Supplemental Restraint System (SRS)
- Group 54A-Chassis Electrical
- Group 55-Heater, Air Conditioning and Ventilation

## AFFECTED VEHICLES

- 2008 - 2017 Lancer
- 2008 - 2015 Lancer Evolution
- 2009 - 2017 Lancer Sportback
- 2007 - 2019 Outlander
- 2018 - 2019 Outlander PHEV
- 2011 - 2019 Outlander Sport

## AFFECTED SERVICE MANUALS

- 2008 - 2017 Lancer Service Manual, Group 42-Body
- 2008 - 2015 Lancer Evolution Service Manual, Group 42-Body
- 2009 - 2017 Lancer Sportback Service Manual, Group 42-Body
- 2007 - 2019 Outlander Service Manual, Group 42-Body
- 2018 - 2019 Outlander PHEV Service Manual, Group 42-Body
- 2011 - 2019 Outlander Sport Service Manual, Group 42-Body



Please make the indicated changes below to Group 42-Body -> 42B-Keyless Operation System (KOS) **and** 42C-Wireless Control Module (WCM) -> Diagnosis -> Diagnostic Trouble Code Procedures -> DTC U0141: ETACS CAN timeout, in the following Service Manuals:

- 2008 - 2017 Lancer
- 2008 - 2015 Lancer Evolution
- 2009 - 2017 Lancer Sportback
- 2007 - 2019 Outlander
- 2011 - 2019 Outlander Sport

---

## DTC U0141: ETACS CAN timeout

---

### CAUTION

- If the DTC No. U0141 stored, be sure to diagnose the CAN bus line.
- Before replacing the ECU or combination meter, ensure that the power supply circuit, the ground circuit and the communication circuit are normal.
- When the ETACS-ECU of vehicles without KOS is replaced, the encrypted code of the ignition key needs to be registered to the ETACS-ECU. (If the encrypted code is not registered, the engine cannot be started. Register the encrypted code as described in Immobilizer System – How to Register Key ID .)

### DIAGNOSTIC FUNCTION

If the signal from ETACS-ECU cannot be received, the combination meter sets DTC No. U0141.

### JUDGMENT CRITERIA

With the ignition switch is at ON position, DTC No. U1190 is not stored and DTC No. U1195 is not stored, if the communication with ETACS-ECU cannot be established for 2500 ms or more, the combination meter determines that a problem has occurred.

### TROUBLESHOOTING HINTS

- The CAN bus line may be defective.
- The combination meter may be defective.
- The ETACS-ECU may be defective.

## DIAGNOSIS

**STEP 1. Using scan tool (M.U.T.-III), diagnose the CAN bus line**

### CAUTION

To prevent damage to scan tool (M.U.T.-III), always turn the ignition switch to the "LOCK" (OFF) position before connecting or disconnecting scan tool (M.U.T.-III).

- (1) Connect scan tool (M.U.T.-III). Refer to "How to connect the Scan Tool (M.U.T.-III) ."
- (2) Turn the ignition switch to the "ON" position.
- (3) Diagnose the CAN bus line.
- (4) Turn the ignition switch to the "LOCK" (OFF) position.

**Q: Is the CAN bus line found to be normal?**

**YES :** Go to Step 2.

**NO :** Repair the CAN bus line (Refer to GROUP 54C, Diagnosis ).

---

**STEP 2. Using scan tool (M.U.T.-III), read the ETACS diagnostic trouble code**

Check if DTC is stored in the ETACS-ECU.

**Q: Is the DTC stored?**

**YES :** Diagnose the ETACS-ECU (Refer to ).

**NO :** Go to Step 3

---

**STEP 3. Using scan tool (M.U.T.-III), read the KOS diagnostic trouble code.**

Check if the DTC No. ~~U0141~~ stored in KOS-ECU.

**Q: Is the DTC stored?**

**YES :** Go to Step 4.

**NO :** Go to Step 5.

<Correct>

Check whether an ETACS "time-out" related DTC is set in other ECUs (Refer to GROUP 54C – CAN-Related DTC Table).

<Incorrect>

Please make the indicated changes below to the 2018 - 2019 Outlander PHEV Service Manual, Group 42-Body, in the following areas:

- 42A-Body -> Liftgate <Vehicles with Power Liftgate> -> Diagnostic Trouble Code Procedures -> DTC U0141: ETACS-ECU CAN timeout.
- 42B-Keyless Operation System (KOS) -> Diagnosis <KOS-ECU> **and** Diagnosis <OSS-ECU> -> Diagnostic Trouble Code Procedures -> DTC U0141: ETACS CAN timeout.

**DTC U0141: ETACS CAN timeout**

**CAUTION**

- If DTC No. U0141 is set, be sure to diagnose the CAN bus line.
- Before replacing the ECU or combination meter, ensure that the power supply circuit, the ground circuit and the communication circuit are normal.

**DIAGNOSTIC FUNCTION**

If the signal from ETACS-ECU cannot be received, the combination meter sets DTC No. U0141.

**DTC SET CONDITIONS**

With the electric motor switch is at ON position, DTC No. U1190 is not set and DTC No. U1195 is not set, if the communication with ETACS-ECU cannot be established for 2500 ms or more, the combination meter determines that a problem has occurred.

**TROUBLESHOOTING HINTS**

- The CAN bus line may be defective
- The combination meter may be defective
- The the ETACS-ECU may be defective

**DIAGNOSIS**

**STEP 1. Using scan tool (M.U.T.-III SE), diagnose the CAN bus line.**

**CAUTION**

To prevent damage to scan tool (M.U.T.-III SE), always turn off the power supply mode of the electric motor switch before connecting or disconnecting scan tool (M.U.T.-III SE).

- (1) Connect scan tool (M.U.T.-III SE). Refer to "How to connect the Scan Tool (M.U.T.-III SE) P.54A-6."
- (2) Press the electric motor switch to turn on the power supply mode.
- (3) Diagnose the CAN bus line.
- (4) Press the electric motor switch to turn off the power supply mode.

**Q: Is the CAN bus line found to be normal?**

- YES :** Go to Step 2.
- NO :** Repair the CAN bus line (Refer to GROUP 54C, Diagnosis P.54C-12).

**STEP 2. Using scan tool (M.U.T.-III SE), read the other system DTC.**

Check if DTC is set in the ETACS-ECU.

**Q: Is the DTC set?**

- YES :** Diagnose the ETACS-ECU (Refer to P.54A-433).
- NO :** Go to Step 3

**STEP 3. Using scan tool (M.U.T.-III SE), read the other system DTC.**

**<Incorrect>** Check if a DTC, which relates to CAN communication-linked systems below, is set.

Engine control module

- DTC No.U0141: ETACS CAN timeout

**Q: Is the DTC set?**

- YES :** Go to Step 4.
- NO :** Go to Step 5.

**<Correct>**

Check whether an ETACS "time-out" related DTC is set in other ECUs (Refer to GROUP 54C - CAN-Related DTC Table).