



Technical Service Bulletin

| | | | |
|---|---|---|--|
| SUBJECT: | | No: TSB-20-54A-001 | |
| DATA LIST REFERENCE TABLE - SMR | | DATE: September 2020 | |
| | | MODEL: See Below | |
| CIRCULATE TO: | <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 affected Service Manual Data List Reference tables within the Chassis Electrical section. These changes are being made to correct the Left, Right, and Center Reflection Amplitudes within the table.

AFFECTED VEHICLES

2018 - 2020 Outlander Sport

2017 - 2020 Outlander

2018 - 2020 Outlander PHEV

2018 - 2020 Eclipse Cross

AFFECTED SERVICE MANUALS

- 2018 - 2020 Outlander Sport Service Manual, Group 54A - Chassis Electrical
- 2017 - 2020 Outlander Service Manual, Group 54A - Chassis Electrical
- 2018 - 2020 Outlander PHEV Service Manual, Group 54A - Chassis Electrical
- 2018 - 2020 Eclipse Cross Service Manual, Group 54A - Chassis Electrical



- Please insert attached sheet 11 into the 2018 Outlander Sport Service Manual, Group 54A - Chassis Electrical -> FCM/LDW/AHB-ECU

CHASSIS ELECTRICAL
 FCM/LDW/AHB-ECU

Attached sheet 11
54A-771

DATA LIST REFERENCE TABLE

M1549801100156

The following items of ECU input data can be read using scan tool MB991958.

| Item No. | Check item | Check condition | Normal condition |
|----------|--|---|---|
| 1 | ECU power supply voltage | Ignition switch: "ON" | 0 to 25.5 V |
| 2 | ECU temperature | Ignition switch: "ON" | -100 to 156 °C (-150 to 320 °F) |
| 3 | Object recognition (CONT. value) | - | - |
| 4 | Relative speed (Control value) | Ignition switch: "ON" | Displays a relative speed to a target vehicle. |
| 5 | Relative speed (Left) | | |
| 6 | Relative speed (Right) | | |
| 7 | Relative speed (Center) | | |
| 8 | Relative distance (Control value) | Ignition switch: "ON" | Displays a relative distance to a target vehicle (0 to 40 m). |
| 9 | Lateral position | - | -10 to 10 m |
| 10 | Reflection amplitude (Left) | Ignition switch: "ON" | Displays a reflection intensity of the sensors (nominal range: -1 to 72) <div style="margin-left: 100px; color: red; font-size: small;"> <Incorrect> ↑ <Correct> 72 </div> |
| 11 | Reflection amplitude (Right) | | |
| 12 | Reflection amplitude (Center) | | |
| 13 | Camera/Laser Radar performance | Ignition switch: "ON" | Displays an operation status of the FCM/LDW/AHB-ECU; Normal, Blocked, System failure. |
| 14 | Relative distance (Left) | Ignition switch: "ON" | Displays a relative distance to a target vehicle. |
| 15 | Relative distance (Right) | | |
| 16 | Relative distance (Center) | | |
| 17 | Steering wheel angle (+: left turn, -: right turn) | Vehicle stopped (the steering wheel is in the neutral position) | -6 to 6 deg |
| 18 | Yaw rate (+: left turn, -: right turn) | Vehicle stopped (level) | -3.6 to 3.6 deg/s |
| | | Running | -75 to 75 deg/s |
| 19 | Lateral G (+: left turn, -: right turn) | Vehicle stopped (level) | -0.11 to 0.11 m/s ² |
| | | Running | -1 to 1 m/s ² |
| 20 | Longitudinal G (+: deceleration, -: acceleration) | Vehicle stopped (level) | -0.04 to 0.04 m/s ² |
| | | Running | -1 to 1 m/s ² |
| 21 | Vehicle speed | Perform a test run of the vehicle. | The speedometer display and the scan tool MB991958 display almost agree with each other. |

TSB Revision

- Please insert attached sheet 12 into the 2019 Outlander Sport Service Manual, Group 54A - Chassis Electrical -> FCM/LDW/AHB-ECU

Attached sheet 12

CHASSIS ELECTRICAL
FCM/LDW/AHB-ECU

54A-761

DATA LIST REFERENCE TABLE

M1549801100156

The following items of ECU input data can be read
using scan tool MB991958.

| Item No. | Check item | Check condition | Normal condition |
|----------|---|--|---|
| 1 | ECU power supply voltage | Ignition switch: "ON" | 0 to 25.5 V |
| 2 | ECU temperature | Ignition switch: "ON" | -100 to 156 °C (-150 to 320 °F) |
| 3 | Object recognition (CONT. value) | - | - |
| 4 | Relative speed (Control value) | Ignition switch: "ON" | Displays a relative speed to a target vehicle. |
| 5 | Relative speed (Left) | | |
| 6 | Relative speed (Right) | | |
| 7 | Relative speed (Center) | | |
| 8 | Relative distance (Control value) | Ignition switch: "ON" | Displays a relative distance to a target vehicle (0 to 40 m). |
| 9 | Lateral position | - | -10 to 10 m |
| 10 | Reflection amplitude (Left) | Ignition switch: "ON" | Displays a reflection intensity of the sensors (nominal range: -1 to 72) <Incorrect> ↑ <Correct> 72 |
| 11 | Reflection amplitude (Right) | | |
| 12 | Reflection amplitude (Center) | | |
| 13 | Camera/Laser Radar performance | Ignition switch: "ON" | Displays an operation status of the FCM/LDW/AHB-ECU; Normal, Blocked, System failure. |
| 14 | Relative distance (Left) | Ignition switch: "ON" | Displays a relative distance to a target vehicle. |
| 15 | Relative distance (Right) | | |
| 16 | Relative distance (Center) | | |
| 17 | Steering wheel angle (+: left turn, -: right turn) | Vehicle stopped (the steering wheel is in the neutral position) | -6 to 6 deg |
| 18 | Yaw rate (+: left turn, -: right turn) | Vehicle stopped (level) | -3.6 to 3.6 deg/s |
| | | Running | -75 to 75 deg/s |
| 19 | Lateral G (+: left turn, -: right turn) | Vehicle stopped (level) | -0.11 to 0.11 m/s ² |
| | | Running | -1 to 1 m/s ² |
| 20 | Longitudinal G (+: deceleration, -: acceleration) | Vehicle stopped (level) | -0.04 to 0.04 m/s ² |
| | | Running | -1 to 1 m/s ² |

TSB Revision

- Please insert attached sheet 13 into the 2020 Outlander Sport Service Manual, Group 54A - Chassis Electrical -> FCM/LDW/AHB-ECU

CHASSIS ELECTRICAL
 FCM/LDW/AHB-ECU

Attached sheet 13
54A-745

DATA LIST REFERENCE TABLE

M1549801100275

The following items of ECU input data can be read using scan tool MB991958.

| Item No. | Check item | Check condition | Normal condition |
|----------|--|---|--|
| 1 | ECU power supply voltage | Ignition switch: "ON" | 0 to 25.5 V |
| 2 | ECU temperature | Ignition switch: "ON" | -100 to 156 °C (-150 to 320 °F) |
| 3 | Object recognition (CONT. value) | - | - |
| 4 | Relative speed (Control value) | Ignition switch: "ON" | Displays a relative speed to a target vehicle. |
| 5 | Relative speed (Left) | | |
| 6 | Relative speed (Right) | | |
| 7 | Relative speed (Center) | | |
| 8 | Relative distance (Control value) | Ignition switch: "ON" | Displays a relative distance to a target vehicle (0 to 40 m). |
| 9 | Lateral position | - | -10 to 10 m |
| 10 | Reflection amplitude (Left) | Ignition switch: "ON" | Displays a reflection intensity of the sensors (nominal range: -1 to 2) <Incorrect> ↑ <Correct> 72 |
| 11 | Reflection amplitude (Right) | | |
| 12 | Reflection amplitude (Center) | | |
| 13 | Camera/Laser Radar performance | Ignition switch: "ON" | Displays an operation status of the FCM/LDW/AHB-ECU; Normal, Blocked, System failure. |
| 14 | Relative distance (Left) | Ignition switch: "ON" | Displays a relative distance to a target vehicle. |
| 15 | Relative distance (Right) | | |
| 16 | Relative distance (Center) | | |
| 17 | Steering wheel angle (+: left turn, -: right turn) | Vehicle stopped (the steering wheel is in the neutral position) | -6 to 6 deg |
| 18 | Yaw rate (+: left turn, -: right turn) | Vehicle stopped (level) | -3.6 to 3.6 deg/s |
| | | Running | -75 to 75 deg/s |
| 19 | Lateral G (+: left turn, -: right turn) | Vehicle stopped (level) | -0.11 to 0.11 m/s ² |
| | | Running | -1 to 1 m/s ² |
| 20 | Longitudinal G (+: deceleration, -: acceleration) | Vehicle stopped (level) | -0.04 to 0.04 m/s ² |
| | | Running | -1 to 1 m/s ² |

TSB Revision

- Please insert attached sheet 14 into the 2017 Outlander Service Manual, Group 54A - Chassis Electrical -> FCM/LDW/AHB-ECU

54A-860

CHASSIS ELECTRICAL
FCM/LDW/AHB-ECU

Attached sheet 14

| Item No. | Check item | Check condition | Normal condition |
|----------|--|---|---|
| 4 | Relative speed (Control value) | Ignition switch: "ON" | Displays a relative speed to a target vehicle. |
| 5 | Relative speed (Left) | | |
| 6 | Relative speed (Right) | | |
| 7 | Relative speed (Center) | | |
| 8 | Relative distance (Control value) | Ignition switch: "ON" | Displays a relative distance to a target vehicle (0 to 40 m). |
| 9 | Lateral position | - | -10 to 10 m |
| 10 | Reflection amplitude (Left) | Ignition switch: "ON" | Displays a reflection intensity of the sensors (nominal range: -1 to 72) <Incorrect> ↑ <Correct> 72 |
| 11 | Reflection amplitude (Right) | | |
| 12 | Reflection amplitude (Center) | | |
| 13 | Camera/Laser Radar performance | Ignition switch: "ON" | Displays an operation status of the FCM/LDW/AHB-ECU; Normal, Blocked, System failure. |
| 14 | Relative distance (Left) | Ignition switch: "ON" | Displays a relative distance to a target vehicle. |
| 15 | Relative distance (Right) | | |
| 16 | Relative distance (Center) | | |
| 17 | Steering wheel angle (+: left turn, -: right turn) | Vehicle stopped (the steering wheel is in the neutral position) | -6 to 6 deg |
| 18 | Yaw rate (+: left turn, -: right turn) | Vehicle stopped (level) | -3.6 to 3.6 deg/s |
| | | Running | -75 to 75 deg/s |
| 19 | Lateral G (+: left turn, -: right turn) | Vehicle stopped (level) | -0.11 to 0.11 m/s ² |
| | | Running | -1 to 1 m/s ² |
| 20 | Longitudinal G (+: deceleration, -: acceleration) | Vehicle stopped (level) | -0.04 to 0.04 m/s ² |
| | | Running | -1 to 1 m/s ² |
| 21 | Vehicle speed | Perform a test run of the vehicle. | The speedometer display and the scan tool (M.U.T.-III) display almost agree with each other. |
| 22 | AS&G status | Ignition switch: "ON" | Displays an operation status of the Auto Stop & Go (AS&G); Not active, Idle stop, Auto start. |
| 23 | A.S.C. status | When the ASC is activated | A.S.C. ON |
| | | When the ASC is deactivated by the ASC OFF switch. | A.S.C. OFF |
| | | When the ASC fails | A.S.C. fail |

TSB Revision

- Please insert attached sheet 15 into the 2018 Outlander Service Manual, Group 54A - Chassis Electrical -> FCM/LDW/AHB-ECU

CHASSIS ELECTRICAL
FCM/LDW/AHB-ECU

Attached sheet 15

54A-765

DATA LIST REFERENCE TABLE

M1549801100189

The following items of ECU input data can be read using scan tool (M.U.T.-III).

| Item No. | Check item | Check condition | Normal condition |
|----------|--|---|--|
| 1 | ECU power supply voltage | Ignition switch: "ON" | 0 to 25.5 V |
| 2 | ECU temperature | Ignition switch: "ON" | -100 to 156 °C (-150 to 320 °F) |
| 3 | Object recognition (CONT. value) | - | - |
| 4 | Relative speed (Control value) | Ignition switch: "ON" | Displays a relative speed to a target vehicle. |
| 5 | Relative speed (Left) | | |
| 6 | Relative speed (Right) | | |
| 7 | Relative speed (Center) | | |
| 8 | Relative distance (Control value) | Ignition switch: "ON" | Displays a relative distance to a target vehicle (0 to 40 m). |
| 9 | Lateral position | - | -10 to 10 m |
| 10 | Reflection amplitude (Left) | Ignition switch: "ON" | Displays a reflection intensity of the sensors (nominal range: -1 to 52 <Incorrect> ↑ <Correct> 72) |
| 11 | Reflection amplitude (Right) | | |
| 12 | Reflection amplitude (Center) | | |
| 13 | Camera/Laser Radar performance | Ignition switch: "ON" | Displays an operation status of the FCM/LDW/AHB-ECU; Normal, Blocked, System failure. |
| 14 | Relative distance (Left) | Ignition switch: "ON" | Displays a relative distance to a target vehicle. |
| 15 | Relative distance (Right) | | |
| 16 | Relative distance (Center) | | |
| 17 | Steering wheel angle (+: left turn, -: right turn) | Vehicle stopped (the steering wheel is in the neutral position) | -6 to 6 deg |
| 18 | Yaw rate (+: left turn, -: right turn) | Vehicle stopped (level) | -3.6 to 3.6 deg/s |
| | | Running | -75 to 75 deg/s |
| 19 | Lateral G (+: left turn, -: right turn) | Vehicle stopped (level) | -0.11 to 0.11 m/s ² |
| | | Running | -1 to 1 m/s ² |
| 20 | Longitudinal G (+: deceleration, -: acceleration) | Vehicle stopped (level) | -0.04 to 0.04 m/s ² |
| | | Running | -1 to 1 m/s ² |
| 21 | Vehicle speed | Perform a test run of the vehicle. | The speedometer display and the scan tool (M.U.T.-III) display almost agree with each other. |

TSB Revision

- Please insert attached sheet 16 into the 2019 Outlander Service Manual, Group 54A - Chassis Electrical -> FCM/LDW/AHB-ECU

CHASSIS ELECTRICAL
FCM/LDW/AHB-ECU

Attached sheet 16

54A-733

| Item No. | Check item | Check condition | Normal condition |
|----------|--|---|---|
| 10 | Reflection amplitude (Left) | Ignition switch: "ON" | Displays a reflection intensity of the sensors (nominal range: -1 to 72 <Incorrect> ↑ <Correct> 72 |
| 11 | Reflection amplitude (Right) | | |
| 12 | Reflection amplitude (Center) | | |
| 13 | Camera/Laser Radar performance | Ignition switch: "ON" | Displays an operation status of the FCM/LDW/AHB-ECU; Normal, Blocked, System failure. |
| 14 | Relative distance (Left) | Ignition switch: "ON" | Displays a relative distance to a target vehicle. |
| 15 | Relative distance (Right) | | |
| 16 | Relative distance (Center) | | |
| 17 | Steering wheel angle (+: left turn, -: right turn) | Vehicle stopped (the steering wheel is in the neutral position) | -6 to 6 deg |
| 18 | Yaw rate (+: left turn, -: right turn) | Vehicle stopped (level) | -3.6 to 3.6 deg/s |
| | | Running | -75 to 75 deg/s |
| 19 | Lateral G (+: left turn, -: right turn) | Vehicle stopped (level) | -0.11 to 0.11 m/s ² |
| | | Running | -1 to 1 m/s ² |
| 20 | Longitudinal G (+: deceleration, -: acceleration) | Vehicle stopped (level) | -0.04 to 0.04 m/s ² |
| | | Running | -1 to 1 m/s ² |
| 21 | Vehicle speed | Perform a test run of the vehicle. | The speedometer display and the scan tool (M.U.T.-III) display almost agree with each other. |
| 22 | AS&G status | Ignition switch: "ON" | Displays an operation status of the Auto Stop & Go (AS&G); Not active, Idle stop, Auto start. |
| 23 | A.S.C. status | When the ASC is activated | A.S.C. ON |
| | | When the ASC is deactivated by the ASC OFF switch. | A.S.C. OFF |
| | | When the ASC fails | A.S.C. fail |
| 24 | Ignition/Electric motor switch | Ignition switch: "LOCK"(OFF) | Lock |
| | | Ignition switch: "ACC" | ACC |
| | | Ignition switch: "ON" | ON |
| | | Ignition switch: "START" | Start |
| 25 | FCM ON/OFF switch | FCM ON/OFF switch: Pressed | ON |
| | | FCM ON/OFF switch: Released | OFF |
| 26 | LDW switch | LDW switch: Pressed | ON |
| | | LDW switch: Released | OFF |

TSB Revision

- Please insert attached sheet 17 into the 2020 Outlander Service Manual, Group 54A - Chassis Electrical -> FCM/LDW/AHB-ECU

Attached sheet 17

54A-748

CHASSIS ELECTRICAL
FCM/LDW/AHB-ECU

| Item No. | Check item | Check condition | Normal condition |
|----------|--|---|---|
| 10 | Reflection amplitude (Left) | Ignition switch: "ON" | Displays a reflection intensity of the sensors (nominal range: -1 to 72 <Incorrect> ↑ <Correct> 72 |
| 11 | Reflection amplitude (Right) | | |
| 12 | Reflection amplitude (Center) | | |
| 13 | Camera/Laser Radar performance | Ignition switch: "ON" | Displays an operation status of the FCM/LDW/AHB-ECU; Normal, Blocked, System failure. |
| 14 | Relative distance (Left) | Ignition switch: "ON" | Displays a relative distance to a target vehicle. |
| 15 | Relative distance (Right) | | |
| 16 | Relative distance (Center) | | |
| 17 | Steering wheel angle (+: left turn, -: right turn) | Vehicle stopped (the steering wheel is in the neutral position) | -6 to 6 deg |
| 18 | Yaw rate (+: left turn, -: right turn) | Vehicle stopped (level) | -3.6 to 3.6 deg/s |
| | | Running | -75 to 75 deg/s |
| 19 | Lateral G (+: left turn, -: right turn) | Vehicle stopped (level) | -0.11 to 0.11 m/s ² |
| | | Running | -1 to 1 m/s ² |
| 20 | Longitudinal G (+: deceleration, -: acceleration) | Vehicle stopped (level) | -0.04 to 0.04 m/s ² |
| | | Running | -1 to 1 m/s ² |
| 21 | Vehicle speed | Perform a test run of the vehicle. | The speedometer display and the scan tool (M.U.T.-III) display almost agree with each other. |
| 22 | AS&G status | Ignition switch: "ON" | Displays an operation status of the Auto Stop & Go (AS&G); Not active, Idle stop, Auto start. |
| 23 | A.S.C. status | When the ASC is activated | A.S.C. ON |
| | | When the ASC is deactivated by the ASC OFF switch. | A.S.C. OFF |
| | | When the ASC fails | A.S.C. fail |
| 24 | Ignition/Electric motor switch | Ignition switch: "LOCK"(OFF) | Lock |
| | | Ignition switch: "ACC" | ACC |
| | | Ignition switch: "ON" | ON |
| | | Ignition switch: "START" | Start |
| 25 | FCM ON/OFF switch | FCM ON/OFF switch: Pressed | ON |
| | | FCM ON/OFF switch: Released | OFF |
| 26 | LDW switch | LDW switch: Pressed | ON |
| | | LDW switch: Released | OFF |

TSB Revision

- Please insert attached sheet 18 into the 2018 Outlander PHEV Service Manuals, Group 54A - Chassis Electrical -> FCM/LDW/AHB-ECU

| | | CHASSIS ELECTRICAL FCM/LDW/AHB-ECU | |
|---|--|---|--|
| | | Attached sheet 18 54A-637 | |
| DATA LIST REFERENCE TABLE | | | |
| The following items of ECU input data can be read using scan tool (M.U.T.-IIISE). | | | |
| Item No. | Scan tool (M.U.T.-IIISE) display | Check condition | Normal condition |
| 1 | ECU power supply voltage | Electric motor switch: "ON" | 0 to 25.5 V |
| 2 | ECU temperature | Electric motor switch: "ON" | -100 to 156 °C (-150 to 320 °F) |
| 3 | Object recognition (CONT. value) | - | - |
| 4 | Relative speed (Control value) | Electric motor switch: "ON" | Displays a relative speed to a target vehicle. |
| 5 | Relative speed (Left) | | |
| 6 | Relative speed (Right) | | |
| 7 | Relative speed (Center) | | |
| 8 | Relative distance (Control value) | Electric motor switch: "ON" | Displays a relative distance to a target vehicle (0 to 40 m). |
| 9 | Lateral position | - | -10 to 10 m |
| 10 | Reflection amplitude (Left) | Electric motor switch: "ON" | Displays a reflection intensity of the sensors (nominal range: -1 to 72) <Incorrect> ↑ <Correct> 72 |
| 11 | Reflection amplitude (Right) | | |
| 12 | Reflection amplitude (Center) | | |
| 13 | Camera/Laser Radar performance | Electric motor switch: "ON" | Displays an operation status of the FCM/LDW/AHB-ECU; Normal, Blocked, System failure. |
| 14 | Relative distance (Left) | Electric motor switch: "ON" | Displays a relative distance to a target vehicle. |
| 15 | Relative distance (Right) | | |
| 16 | Relative distance (Center) | | |
| 17 | Steering wheel angle (+: left turn, -: right turn) | Vehicle stopped (the steering wheel is in the neutral position) | -6 to 6 deg |
| 18 | Yaw rate (+: left turn, -: right turn) | Vehicle stopped (level) | -3.6 to 3.6 deg/s |
| | | Running | -75 to 75 deg/s |
| 19 | Lateral G (+: left turn, -: right turn) | Vehicle stopped (level) | -0.11 to 0.11 m/s ² |
| | | Running | -1 to 1 m/s ² |
| 20 | Longitudinal G (+: deceleration, -: acceleration) | Vehicle stopped (level) | -0.04 to 0.04 m/s ² |
| | | Running | -1 to 1 m/s ² |

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| TSB Revision |
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- Please insert attached sheet 19 into the 2019 Outlander PHEV Service Manual, Group 54A - Chassis Electrical -> FCM/LDW/AHB-ECU

Attached sheet 19

54A-662**CHASSIS ELECTRICAL
FCM/LDW/AHB-ECU****DATA LIST REFERENCE TABLE**

M1549801100101

The following items of ECU input data can be read using scan tool (M.U.T.-IIISE).

| Item No. | Scan tool (M.U.T.-IIISE) display | Check condition | Normal condition |
|----------|--|---|---|
| 1 | ECU power supply voltage | Electric motor switch: "ON" | 0 to 25.5 V |
| 2 | ECU temperature | Electric motor switch: "ON" | -100 to 156 °C (-150 to 320 °F) |
| 3 | Object recognition (CONT. value) | - | - |
| 4 | Relative speed (Control value) | Electric motor switch: "ON" | Displays a relative speed to a target vehicle. |
| 5 | Relative speed (Left) | | |
| 6 | Relative speed (Right) | | |
| 7 | Relative speed (Center) | | |
| 8 | Relative distance (Control value) | Electric motor switch: "ON" | Displays a relative distance to a target vehicle (0 to 40 m). |
| 9 | Lateral position | - | -10 to 10 m |
| 10 | Reflection amplitude (Left) | Electric motor switch: "ON" | Displays a reflection intensity of the sensors (nominal range: -1 to 72) <Incorrect> ↑ <Correct> 72 |
| 11 | Reflection amplitude (Right) | | |
| 12 | Reflection amplitude (Center) | | |
| 13 | Camera/Laser Radar performance | Electric motor switch: "ON" | Displays an operation status of the FCM/LDW/AHB-ECU; Normal, Blocked, System failure. |
| 14 | Relative distance (Left) | Electric motor switch: "ON" | Displays a relative distance to a target vehicle. |
| 15 | Relative distance (Right) | | |
| 16 | Relative distance (Center) | | |
| 17 | Steering wheel angle (+: left turn, -: right turn) | Vehicle stopped (the steering wheel is in the neutral position) | -6 to 6 deg |
| 18 | Yaw rate (+: left turn, -: right turn) | Vehicle stopped (level) | -3.6 to 3.6 deg/s |
| | | Running | -75 to 75 deg/s |
| 19 | Lateral G (+: left turn, -: right turn) | Vehicle stopped (level) | -0.11 to 0.11 m/s ² |
| | | Running | -1 to 1 m/s ² |
| 20 | Longitudinal G (+: deceleration, -: acceleration) | Vehicle stopped (level) | -0.04 to 0.04 m/s ² |
| | | Running | -1 to 1 m/s ² |

TSB Revision

- Please insert attached sheet 20 into the 2020 Outlander PHEV Service Manual, Group 54A - Chassis Electrical -> FCM/LDW/AHB-ECU

CHASSIS ELECTRICAL
FCM/LDW/AHB-ECU

Attached sheet 20

54A-665

DATA LIST REFERENCE TABLE

M154601100101

The following items of ECU input data can be read using scan tool (M.U.T.-III SE).

| Item No. | Scan tool (M.U.T.-III SE) display | Check condition | Normal condition |
|----------|--|---|--|
| 1 | ECU power supply voltage | Electric motor switch: "ON" | 0 to 25.5 V |
| 2 | ECU temperature | Electric motor switch: "ON" | -100 to 156 °C (-150 to 320 °F) |
| 3 | Object recognition (CONT. value) | - | - |
| 4 | Relative speed (Control value) | Electric motor switch: "ON" | Displays a relative speed to a target vehicle. |
| 5 | Relative speed (Left) | | |
| 6 | Relative speed (Right) | | |
| 7 | Relative speed (Center) | | |
| 8 | Relative distance (Control value) | Electric motor switch: "ON" | Displays a relative distance to a target vehicle (0 to 40 m). |
| 9 | Lateral position | - | -10 to 10 m |
| 10 | Reflection amplitude (Left) | Electric motor switch: "ON" | Displays a reflection intensity of the sensors (nominal range: -1 to 22 <Incorrect> ↑ <Correct> 72) |
| 11 | Reflection amplitude (Right) | | |
| 12 | Reflection amplitude (Center) | | |
| 13 | Camera/Laser Radar performance | Electric motor switch: "ON" | Displays an operation status of the FCM/LDW/AHB-ECU; Normal, Blocked, System failure. |
| 14 | Relative distance (Left) | Electric motor switch: "ON" | Displays a relative distance to a target vehicle. |
| 15 | Relative distance (Right) | | |
| 16 | Relative distance (Center) | | |
| 17 | Steering wheel angle (+: left turn, -: right turn) | Vehicle stopped (the steering wheel is in the neutral position) | -6 to 6 deg |
| 18 | Yaw rate (+: left turn, -: right turn) | Vehicle stopped (level) | -3.6 to 3.6 deg/s |
| | | Running | -75 to 75 deg/s |
| 19 | Lateral G (+: left turn, -: right turn) | Vehicle stopped (level) | -0.11 to 0.11 m/s ² |
| | | Running | -1 to 1 m/s ² |
| 20 | Longitudinal G (+: deceleration, -: acceleration) | Vehicle stopped (level) | -0.04 to 0.04 m/s ² |
| | | Running | -1 to 1 m/s ² |

TSB Revision

- Please insert attached sheet 21 into the 2018 and 2019 Eclipse Cross Service Manuals, Group 54A - Chassis Electrical -> FCM/LDW/AHB-ECU

| 54A-622 | | CHASSIS ELECTRICAL FCM/LDW/AHB-ECU | |
|---|--|---|--|
| | | Attached sheet 21 | |
| DATA LIST REFERENCE TABLE | | | |
| The following items of ECU input data can be read using scan tool (M.U.T.-IIISE). | | | |
| <small>M1549801100190</small> | | | |
| Item No. | Check item | Check condition | Normal condition |
| 1 | ECU power supply voltage | Ignition switch: "ON" | 0 to 25.5 V |
| 2 | ECU temperature | Ignition switch: "ON" | -100 to 156 °C (-148 to 313 °F) |
| 3 | Object recognition (CONT. value) | - | - |
| 4 | Relative speed (Control value) | Ignition switch: "ON" | Displays a relative speed to a target vehicle. |
| 5 | Relative speed (Left) | | |
| 6 | Relative speed (Right) | | |
| 7 | Relative speed (Center) | | |
| 8 | Relative distance (Control value) | Ignition switch: "ON" | Displays a relative distance to a target vehicle [0 to 40 m (0 to 131.2 ft)]. |
| 9 | Lateral position | - | -10 to 10 m (-32.8 to 32.8 ft) |
| 10 | Reflection amplitude (Left) | Ignition switch: "ON" | Displays a reflection intensity of the sensors (nominal range: -1 to 2) <Incorrect> ↑ <Correct> 72 |
| 11 | Reflection amplitude (Right) | | |
| 12 | Reflection amplitude (Center) | | |
| 13 | Camera/Laser Radar performance | Ignition switch: "ON" | Displays an operation status of the FCM/LDW/AHB-ECU; Normal, Blocked, System failure. |
| 14 | Relative distance (Left) | Ignition switch: "ON" | Displays a relative distance to a target vehicle. |
| 15 | Relative distance (Right) | | |
| 16 | Relative distance (Center) | | |
| 17 | Steering wheel angle (+: left turn, -: right turn) | Vehicle stopped (the steering wheel is in the neutral position) | -6 to 6 deg |
| 18 | Yaw rate (+: left turn, -: right turn) | Vehicle stopped (level) | -3.6 to 3.6 deg/s |
| | | Running | -75 to 75 deg/s |
| 19 | Lateral G (+: left turn, -: right turn) | Vehicle stopped (level) | -0.11 to 0.11 m/s ² |
| | | Running | -1 to 1 m/s ² |
| 20 | Longitudinal G (+: deceleration, -: acceleration) | Vehicle stopped (level) | -0.04 to 0.04 m/s ² |
| | | Running | -1 to 1 m/s ² |

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| TSB Revision |
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- Please insert attached sheet 22 into the 2020 Eclipse Cross Service Manual, Group 54A - Chassis Electrical -> FCM/LDW/AHB-ECU

54A-652

CHASSIS ELECTRICAL
FCM/LDW/AHB-ECU

Attached sheet 22

DATA LIST REFERENCE TABLE

M1549801100190

The following items of ECU input data can be read using scan tool (M.U.T.-IIISE).

| Item No. | Check item | Check condition | Normal condition |
|----------|--|---|---|
| 1 | ECU power supply voltage | Ignition switch: "ON" | 0 to 25.5 V |
| 2 | ECU temperature | Ignition switch: "ON" | -100 to 156 °C (-148 to 313 °F) |
| 3 | Object recognition (CONT. value) | - | - |
| 4 | Relative speed (Control value) | Ignition switch: "ON" | Displays a relative speed to a target vehicle. |
| 5 | Relative speed (Left) | | |
| 6 | Relative speed (Right) | | |
| 7 | Relative speed (Center) | | |
| 8 | Relative distance (Control value) | Ignition switch: "ON" | Displays a relative distance to a target vehicle [0 to 40 m (0 to 131.2 ft)]. |
| 9 | Lateral position | - | -10 to 10 m (-32.8 to 32.8 ft) |
| 10 | Reflection amplitude (Left) | Ignition switch: "ON" | Displays a reflection intensity of the sensors (nominal range: -1 to 72) <Incorrect> ↑ <Correct> 72 |
| 11 | Reflection amplitude (Right) | | |
| 12 | Reflection amplitude (Center) | | |
| 13 | Camera/Laser Radar performance | Ignition switch: "ON" | Displays an operation status of the FCM/LDW/AHB-ECU; Normal, Blocked, System failure. |
| 14 | Relative distance (Left) | Ignition switch: "ON" | Displays a relative distance to a target vehicle. |
| 15 | Relative distance (Right) | | |
| 16 | Relative distance (Center) | | |
| 17 | Steering wheel angle (+: left turn, -: right turn) | Vehicle stopped (the steering wheel is in the neutral position) | -6 to 6 deg |
| 18 | Yaw rate (+: left turn, -: right turn) | Vehicle stopped (level) | -3.6 to 3.6 deg/s |
| | | Running | -75 to 75 deg/s |
| 19 | Lateral G (+: left turn, -: right turn) | Vehicle stopped (level) | -0.11 to 0.11 m/s ² |
| | | Running | -1 to 1 m/s ² |
| 20 | Longitudinal G (+: deceleration, -: acceleration) | Vehicle stopped (level) | -0.04 to 0.04 m/s ² |
| | | Running | -1 to 1 m/s ² |

TSB Revision