

SECTION 206-06: Hydraulic Brake Actuation
DIAGNOSIS AND TESTING

2014 F-150 Workshop Manual
Procedure revision date: 10/25/2013

Pinpoint Tests

Special Tool(s)

 ST2574-A	Flex Probe Kit NUD105-R025D or equivalent
 ST3093-A	Fluke 77-IV Digital Multimeter FLU77-4 or equivalent
 ST3094-A	Test Light SGT 27000 or equivalent 250-350 mA incandescent bulb test lamp SGT 27000
 ST2834-A	Vehicle Communication Module (VCM) and Integrated Diagnostic System (IDS) software with appropriate hardware, or equivalent scan tool

Pinpoint Tests

Pinpoint Test A: The Adjustable Pedals Are Inoperative/Does Not Operate Correctly — Using the Brake Pedal Control Switch

Refer to Wiring Diagrams Cell [127](#), Adjustable Pedals for schematic and connector information.

Normal Operation

The Steering Column Control Module (SCCM) receives fused battery voltage from Body Control Module (BCM) fuses 23 (15A) and 24 (15A).

When the brake pedal control switch is pressed, the SCCM sends current to the adjustable pedals motor along one circuit and the current returns to the SCCM along another circuit, which is grounded through the SCCM to move the pedals in the desired direction.

- DTC B137D:18 (Pedal Adjustment Motor: Circuit Current Below Threshold) — This DTC sets if the SCCM senses current flow to the adjustable pedals motor below a preset limit while the brake pedal control switch is pressed, or if there is an open or high resistance in the adjustable pedals motor circuits when the ignition is ON.
- DTC B137D:19 (Pedal Adjustment Motor: Circuit Current Above Threshold) — This DTC sets if the SCCM senses current flow to the adjustable pedals motor above a preset limit while the brake pedal control switch is pressed, or if there is a short to ground in the adjustable pedals motor circuits when the ignition is ON.
- DTC B137D:71 (Pedal Adjustment Motor: Actuator Stuck) — This DTC sets if the SCCM senses current flow to the adjustable pedals motor within a specific range but above a preset limit while the brake pedal control switch is pressed when the ignition is ON.

This pinpoint test is intended to diagnose the following:

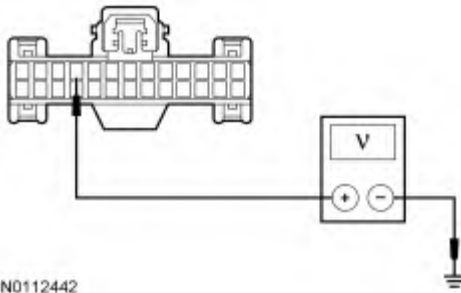
- Wiring, terminals or connectors
- Foreign objects or material
- Brake pedal control switch
- Adjustable accelerator pedal and motor with attached cable
- Adjustable brake pedal and bracket
- SCCM

PINPOINT TEST A: THE ADJUSTABLE PEDALS ARE INOPERATIVE/DOES NOT OPERATE CORRECTLY — USING THE BRAKE PEDAL CONTROL SWITCH

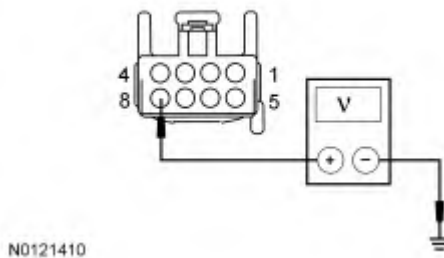
NOTICE: Use the Flex Probe Kit for all test connections to prevent damage to the wiring terminals. Do not use standard multi-meter probes.

Test Step	Result / Action to Take
A1 CHECK THE ADJUSTABLE PEDALS MOTOR AND CABLE INSTALLATION	
• Check the adjustable pedals motor and cable for correct installation. • Is the motor and cable correctly installed?	Yes GO to A2. No CORRECT the adjustable pedals motor installation. REFER to Section 310-02. CLEAR the DTCs. REPEAT the self-test. TEST the system for normal operation.
A2 INSPECT FOR FOREIGN MATERIAL	
• Inspect the adjustable brake pedal and accelerator assemblies for foreign material causing a binding condition. • Are the pedal assemblies free from foreign material?	Yes GO to A3. No REMOVE the foreign material. CLEAR the DTCs. REPEAT the self-test. TEST the system for normal operation.
A3 CHECK FOR VOLTAGE AT THE <u>SCCM</u>	
• Disconnect: <u>SCCM</u> C2414A and C2414B.	Yes

- Measure the voltage between SCCM C2414A-10, circuit SBP23 (WH/RD), harness side and ground.



- Measure the voltage between SCCM C2414B-8, circuit SBP24 (VT/RD), harness side and ground.



- Is the voltage greater than 10 volts?

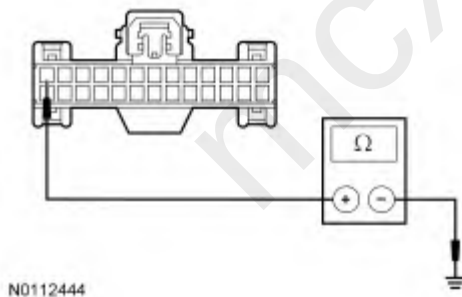
GO to [A4](#).

No

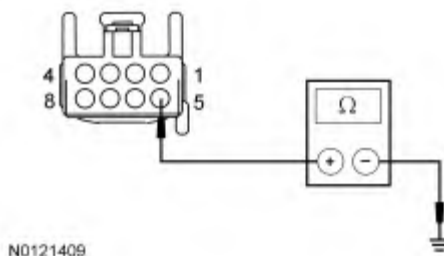
VERIFY BCM fuses 23 (15A) and 24 (15A) are OK. If OK, REPAIR the affected circuit (s). If not OK, REFER to the Wiring Diagrams manual to identify the cause for the circuit(s) short. CLEAR the DTCs. REPEAT the self-test. TEST the system for normal operation.

A4 CHECK THE SCCM GROUND CIRCUIT FOR AN OPEN

- Measure the resistance between SCCM C2414A-13, circuit GD133 (BK), harness side and ground.



- Measure the resistance between SCCM C2414B-5, circuit GD138 (BK/WH), harness side and ground.



Yes

GO to [A5](#).

No

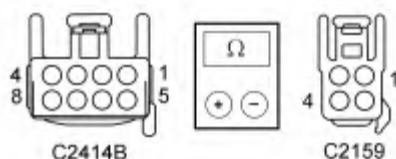
REPAIR the affected circuit (s). CLEAR the DTCs. REPEAT the self-test. TEST the system for normal operation.

- Are the resistances less than 5 ohms?

A5 CHECK THE ADJUSTABLE PEDALS MOTOR CIRCUITS FOR AN OPEN

- Disconnect: Adjustable Pedals Motor C2159 (vehicles with memory) or C2003 (vehicles without memory).
- Vehicles with memory, measure the resistance between SCCM C2414B, harness side and adjustable pedals motor C2159, harness side as follows:

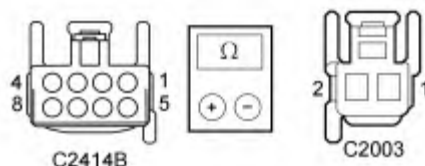
SCCM	Circuit	Adjustable Pedals Motor
C2414B-4	CPP01 (WH/OG)	C2159-2
C2414B-7	CPP02 (BN)	C2159-1



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- Vehicles without memory, measure the resistance between SCCM C2414B, harness side and adjustable pedal motor C2003, harness side as follows:

SCCM	Circuit	Adjustable Pedals Motor
C2414B-4	CPP01 (WH/OG)	C2003-2
C2414B-7	CPP02 (BN)	C2003-1



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- Are the resistances less than 5 ohms?

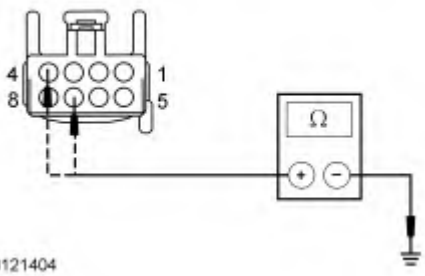
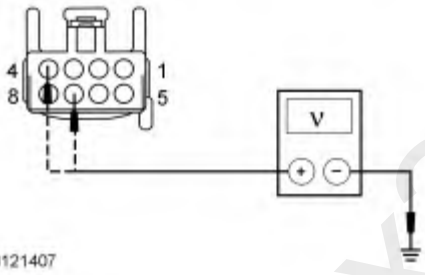
A6 CHECK THE ADJUSTABLE PEDALS MOTOR CIRCUITS FOR A SHORT TO GROUND

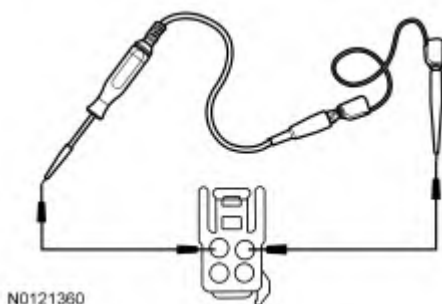
- Measure the resistance between ground and:
 - SCCM C2414B-4, circuit CPP01 (WH/OG), harness side.
 - SCCM C2414B-7, circuit CPP02 (BN), harness side.

Yes
GO to [A6](#).

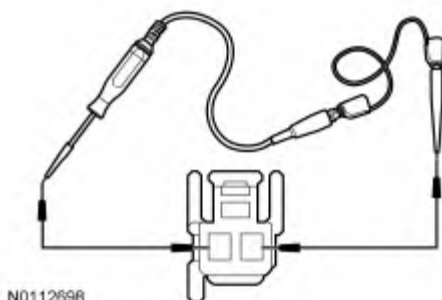
No
REPAIR the affected circuit (s). CLEAR the DTCs. REPEAT the self-test. TEST the system for normal operation.

Yes
GO to [A7](#).

 N0121404 • Are the resistances greater than 10,000 ohms?	No REPAIR the affected circuit (s). CLEAR the DTCs. REPEAT the self-test. TEST the system for normal operation.
A7 CHECK THE ADJUSTABLE PEDALS MOTOR CIRCUITS FOR A SHORT TO VOLTAGE	
• Ignition ON. • Measure the voltage between ground and: ■ SCCM C2414B-4, circuit CPP01 (WH/OG), harness side. ■ SCCM C2414B-7, circuit CPP02 (BN), harness side.  N0121407 • Is any voltage present?	Yes REPAIR the affected circuit (s). CLEAR the DTCs. REPEAT the self-test. TEST the system for normal operation. No GO to A8.
A8 CHECK FOR <u>SCCM</u> OUTPUT	
• Ignition OFF. • Connect: SCCM C2414A and C2414B. • NOTICE: The following step uses a test light to simulate normal circuit loads. Use only the test light recommended in the Special Tools table at the beginning of this section. To avoid connector terminal damage, use the Flex Probe Kit for the test light probe connection to the vehicle. Do not use the test light probe directly on any connector. • NOTE: When the adjustable pedals electrical connector is disconnected, the SCCM only supplies voltage to the adjustable pedals motor in 1 second intervals due to the open on the Hall-effect sensor circuits. • Vehicles with memory, connect the test light as follows: ■ Connect one lead on the test light to C2159-1, circuit CPP02 (BN), harness side. ■ Connect the other lead on the test light to C2159-2, circuit CPP01 (WH/OG), harness side.	Yes GO to A9. No GO to A10.



- Vehicles without memory, connect the test light as follows:
 - Connect one lead on the test light to C2003-1, circuit CPP02 (BN), harness side.
 - Connect the other lead on the test light to C2003-2, circuit CPP01 (WH/OG), harness side.



- Press the brake pedal control switch in the forward and rearward positions and verify the test light illuminates.
- **Does the test light illuminate when the brake pedal control switch is pressed in each direction?**

A9 CHECK THE ADJUSTABLE BRAKE PEDALS CABLE OPERATION

- Connect: Adjustable Pedals Motor C2159 (vehicles with memory feature) or C2003 (vehicles without memory feature).
- Disconnect the adjustable brake pedals cable from the adjustable brake pedal and bracket.
- Operate the brake pedal control switch and observe the cable in the conduit.
- **Does the adjustable brake pedals cable turn in the conduit?**

Yes

INSTALL a new brake pedal assembly. REFER to [Brake Pedal and Bracket](#) in this section. CLEAR the DTCs. REPEAT the self test. TEST the system for normal operation.

No

INSTALL a new adjustable accelerator pedal and motor with attached cable. REFER to Accelerator Pedal — Adjustable, Exploded View in [Section 310-02](#). CLEAR the DTCs. REPEAT the self test. TEST the system for normal operation.

A10 CHECK THE SCCM ADJUSTABLE PEDALS ACTIVE COMMANDS

- Select PARK.

Yes

• Connect: Adjustable Pedals Motor C2159 (vehicles with memory feature) or C2003 (vehicles without memory feature). • Ignition ON. • Enter the following diagnostic mode on the scan tool: DataLogger — <u>SCCM</u>. • NOTE: Toggling the active command ON causes the pedal to move in the commanded direction for 2 seconds and then the pedal stops. • Toggle the pedals forward (PEDAL_IN) active command ON. • Toggle the PEDAL_IN active command OFF. • Toggle the pedals rearward (PEDAL_OUT) active command ON. • Toggle the PEDAL_OUT active command OFF. • Do the adjustable pedals respond correctly to the corresponding active commands?	INSTALL a new brake pedal control switch. REFER to Brake Pedal Control Switch in this section. CLEAR the DTCs. REPEAT the self-test. TEST the system for normal operation. No GO to A11.
A11 CHECK THE <u>SCCM</u> FOR CORRECT OPERATION • Disconnect: <u>SCCM</u> C2414A and C2414B. • Check <u>SCCM</u> C2414A and <u>SCCM</u> C2414B for: ■ corrosion. ■ pushed-out pins. ■ spread terminals. • Connect: <u>SCCM</u> C2414A and C2414B. • Connect: Adjustable Pedals Motor C2159 (vehicles with memory feature) or C2003 (vehicles without memory feature). • Make sure the connectors seat correctly, then operate the system and verify the concern is still present. • Is the concern still present?	Yes INSTALL a new <u>SCCM</u>. REFER to Section 211-05. CLEAR the DTCs. REPEAT the self-test. TEST the system for normal operation. No The system is operating correctly at this time. The concern may have been caused by a loose or corroded connector. CLEAR the DTCs. REPEAT the self-test. TEST the system for normal operation.

Pinpoint Test B: The Adjustable Pedals Are Inoperative/Does Not Operate Correctly — Using the Memory SET Switch or the Remote Keyless Entry (RKE) Transmitter

Refer to Wiring Diagrams Cell [127](#), Adjustable Pedals for schematic and connector information.

Normal Operation

When the desired memory position is selected using the memory SET switch or the Remote Keyless Entry (RKE) transmitter, the Driver Seat Module (DSM) communicates the desired pedals position in a message on the Medium Speed Controller Area Network (MS-CAN) bus to the Body Control Module (BCM). The BCM acts as a gateway module, relaying the message to the Steering Column Control Module (SCCM) over the High Speed Controller Area Network (HS-CAN) bus. The SCCM then sends current in one direction to the adjustable pedals motor to move the pedals forward and in another direction (reversed polarity) to move the pedals rearward.

The SCCM uses a Hall-effect sensor that is integral to the pedals motor to identify the current pedal position. The SCCM sends a reference voltage along one circuit, through the sensor and back to the SCCM along the signal return circuit.

If the vehicle is equipped with the memory feature but the SCCM is incorrectly configured, memory recall may not function correctly when the memory SET switch or the RKE transmitter is used to adjust the pedal position.

This pinpoint test is intended to diagnose the following:

- Wiring, terminals or connectors
- Foreign objects or material
- Adjustable accelerator pedal and motor with attached cable
- Adjustable brake pedal and bracket
- RKE transmitter
- DSM
- SCCM
- Incorrect SCCM configuration
- BCM

PINPOINT TEST B: THE ADJUSTABLE PEDALS ARE INOPERATIVE/DOES NOT OPERATE CORRECTLY — USING THE MEMORY SET SWITCH BUTTONS OR THE RKE TRANSMITTER

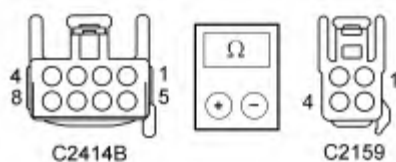
NOTICE: Use the Flex Probe Kit for all test connections to prevent damage to the wiring terminals. Do not use standard multi-meter probes.

Test Step	Result / Action to Take
B1 CHECK THE ADJUSTABLE PEDALS OPERATION WITH THE BRAKE PEDAL CONTROL SWITCH	
• Press the brake pedal control switch in each direction for more than one second and observe the pedals. • Do the pedals operate for more than one second in the direction selected using the switch?	Yes GO to B2. No If the pedals do not move using the brake pedal control switch, GO to Pinpoint Test A. If the pedals only move in one second intervals regardless of button operation, GO to Pinpoint Test C.
B2 CHECK THE MEMORY SYSTEM OPERATION	
• Set a memory position for the driver seat, exterior mirrors and adjustable pedals to memory SET switch button 1. Refer to Memory Position Programming in Section 501-10. • Select PARK. • Press the memory SET switch button 1 and observe the following items: ■ Driver seat ■ Exterior mirrors ■ Adjustable pedals • Do all 3 items move when the button is pressed?	Yes GO to B3. No If all 3 items do not move, REFER to Diagnosis and Testing in Section 501-10 to diagnose the memory SET switch. If only the adjustable pedals do not move, GO to B4. If only the driver seat does not move, REFER to Diagnosis and Testing in Section 501-10. If only the exterior mirrors do not move, REFER to Diagnosis and Testing in Section 501-09.
B3 CHECK THE <u>RKE</u> TRANSMITTER OPERATION	

• Set a memory position in the <u>RKE</u> transmitter for the driver seat, exterior mirrors and adjustable pedals. Refer to Remote Memory Activation in Section 501-14. • Select PARK. • Press the unlock button on the <u>RKE</u> transmitter and observe the following items: ▪ Driver seat ▪ Exterior mirrors ▪ Adjustable pedals • Do all 3 items move when the button is pressed?	Yes GO to B4. No If all 3 items do not move, REFER to Diagnosis and Testing in Section 501-14 to diagnose the <u>RKE</u> transmitter. If only the adjustable pedals do not move, GO to B4. If only the driver seat does not move, REFER to Diagnosis and Testing in Section 501-10. If only the exterior mirrors do not move, REFER to Diagnosis and Testing in Section 501-09.
B4 CHECK THE ADJUSTABLE PEDALS MOTOR AND CABLE INSTALLATION	
• Check the adjustable pedals motor and cable for correct installation. • Are the motor and cable correctly installed?	Yes GO to B5. No CORRECT the adjustable pedals motor installation. REFER to Section 310-02. TEST the system for normal operation.
B5 INSPECT FOR FOREIGN OBJECTS OR MATERIAL	
• Inspect the adjustable brake pedal and accelerator assemblies for foreign material causing a binding condition. • Are the pedal assemblies free from foreign material?	Yes GO to B6. No REMOVE the foreign material. TEST the system for normal operation.
B6 CHECK FOR <u>DSM</u> OR <u>BCM</u> DTCs	
• Ignition ON. • Connect the scan tool. • Enter the following diagnostic mode on the scan tool: Self-Test — <u>DSM</u>. • Enter the following diagnostic mode on the scan tool: Self-Test — <u>BCM</u>. • Record any DTCs retrieved from the <u>DSM</u> or the <u>BCM</u>. • Was DTC U0140 retrieved from the <u>DSM</u> or was DTC U0212:87 retrieved from the <u>BCM</u> ?	Yes If DTC U0140 is retrieved from the <u>DSM</u>, REFER to Section 501-10 to diagnose the lost communication concern. If DTC U0212:87 is retrieved from the <u>BCM</u>, REFER to Section 419-10 to diagnose the lost communication concern. No GO to B7.
B7 CHECK THE ADJUSTABLE PEDALS MOTOR AND HALL-EFFECT SENSOR CIRCUITS FOR AN OPEN	
• Ignition OFF. • Disconnect: Adjustable Pedals Motor C2159. • Disconnect: <u>SCCM</u> C2414B. • Measure the resistance between <u>SCCM</u> C2414B,	Yes GO to B8. No

harness side and adjustable pedals motor C2159, harness side as follows:

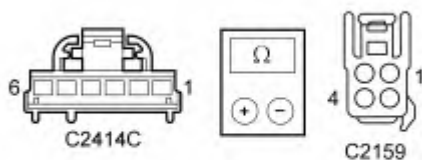
SCCM	Circuit	Adjustable Pedals Motor
C2414B-4	CPP01 (WH/OG)	C2159-2
C2414B-7	CPP02 (BN)	C2159-1



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- Disconnect: SCCM C2414C.
- Measure the resistance between SCCM C2414C, harness side and adjustable pedals motor C2159, harness side as follows

SCCM	Circuit	Adjustable Pedals Motor
C2414C-3	RPP06 (GN)	C2159-3
C2414C-6	LPP06 (YE/BU)	C2159-4



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- Are the resistances less than 5 ohms?

B8 CHECK THE ADJUSTABLE PEDALS MOTOR AND HALL-EFFECT SENSOR CIRCUITS FOR A SHORT TO GROUND

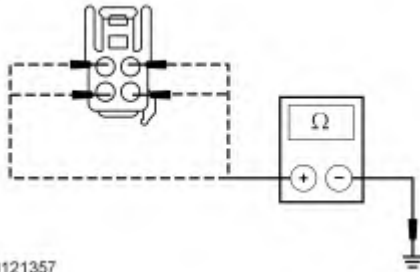
- Measure the resistance between ground and:
 - adjustable pedals motor C2159-1, circuit CPP02

REPAIR the affected circuit(s). TEST the system for normal operation.

Yes
GO to [B9](#).

(BN), harness side.

- adjustable pedals motor C2159-2, circuit CPP01 (WH/OG), harness side.
- adjustable pedals motor C2159-4, circuit LPP06 (YE/BU), harness side.
- adjustable pedals motor C2159-3, circuit RPP06 (GN), harness side.



- Are the resistances greater than 10,000 ohms?

No

REPAIR the affected circuit(s). TEST the system for normal operation.

B9 CHECK THE ADJUSTABLE PEDALS MOTOR AND HALL-EFFECT SENSOR CIRCUITS FOR A SHORT TOGETHER

- Measure the resistance between adjustable pedals motor C2159, harness side as follows:

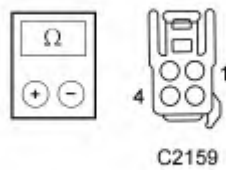
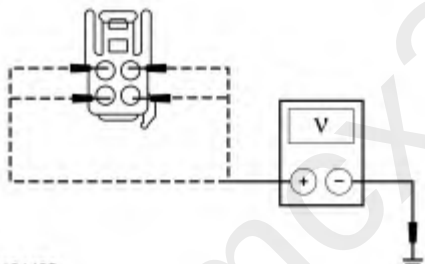
Adjustable Pedals Motor	Circuit	Adjustable Pedals Motor	Circuit
C2159-4	LPP06 (YE/BU)	C2159-2	CPP01 (WH/OG)
C2159-4	LPP06 (YE/BU)	C2159-3	RPP06 (GN)
C2159-4	LPP06 (YE/BU)	C2159-1	CPP02 (BN)
C2159-2	CPP01 (WH/OG)	C2159-3	RPP06 (GN)
C2159-2	CPP01 (WH/OG)	C2159-1	CPP02 (BN)
C2159-3	RPP06 (GN)	C2159-1	CPP02 (BN)

Yes

GO to [B10](#).

No

REPAIR the affected circuit(s). TEST the system for normal operation.

 N0121355 • Are the resistance greater than 10,000 ohms?	
B10 CHECK THE ADJUSTABLE PEDALS MOTOR AND HALL-EFFECT SENSOR CIRCUITS FOR A SHORT TO VOLTAGE • Ignition ON. • Measure the voltage between ground and: ■ adjustable pedals motor C2159-2, circuit CPP01 (WH/OG), harness side. ■ adjustable pedals motor C2159-4, circuit LPP06 (YE/BU), harness side. ■ adjustable pedals motor C2159-3, circuit RPP06 (GN), harness side. ■ adjustable pedals motor C2159-1, circuit CPP02 (BN), harness side.  N0121405 • Is any voltage present?	Yes REPAIR the affected circuit(s). CLEAR the DTCs. REPEAT the self-test. TEST the system for normal operation. No CONFIGURE the <u>SCCM</u> using As-Built data. TEST the system for normal operation. If the adjustable pedals do not operate correctly, INSTALL a new adjustable pedals motor and bracket assembly. REFER to Accelerator Pedal — Adjustable, Exploded View in Section 310-02. CLEAR the DTCs. REPEAT the self-test. TEST the system for normal operation.

Pinpoint Test C: The Adjustable Pedals Only Move in 1 Second Intervals

Refer to Wiring Diagrams Cell [127](#), Adjustable Pedals for schematic and connector information.

Normal Operation

The Steering Column Control Module (SCCM) uses a Hall-effect sensor integral to the motor to identify the current pedal position. The SCCM sends a reference voltage along the sensor feed circuit, through the Hall-effect sensor and back to the SCCM along the signal return circuit.

When the following DTCs are set, the adjustable pedals enters a "jog mode". When the pedals are in jog mode, the memory system recall does not function from either the Remote Keyless Entry (RKE) transmitter or memory SET switch. When the pedals are activated using the brake pedal control switch, the motor moves the pedals for one second regardless of the length of time the button is pressed.

If the vehicle is not equipped with memory and the SCCM is incorrectly configured, the SCCM expects to receive pedal position information when the vehicle is not equipped to provide it. If this happens, the adjustable pedals enters a "jog mode" similar to if a fault were present in the adjustable pedals position sensor circuits.

- DTC B1368:11 (Adjustable Pedal Position Feedback Sensor: Circuit Short to Ground) — This DTC sets if the SCCM detects a short to ground on the Hall-effect sensor feed and/or return circuits when the ignition is ON.
- DTC B1368:12 (Adjustable Pedal Position Feedback Sensor: Circuit Short to Battery) — This DTC sets if the SCCM detects a short to voltage on the Hall-effect sensor feed and/or return circuits when the ignition is ON.

This pinpoint test is intended to diagnose the following:

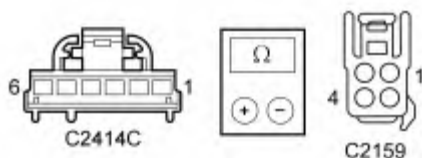
- Wiring, terminals or connectors
- Adjustable accelerator pedal and motor with attached cable
- SCCM
- Incorrect SCCM configuration

PINPOINT TEST C: THE ADJUSTABLE PEDALS ONLY MOVE IN 1 SECOND INTERVALS

NOTICE: Use the Flex Probe Kit for all test connections to prevent damage to the wiring terminals. Do not use standard multimeter probes.

Test Step	Result / Action to Take						
C1 CHECK THE <u>SCCM</u> DTCs - Review the <u>SCCM</u> DTCs retrieved during Inspection and Verification. Were DTCs B1368:11 or B1368:12 retrieved?	Yes GO to C2 . No If no DTCs were retrieved, CONFIGURE the <u>SCCM</u> using As-Built data. REPEAT the self-test. TEST the system for normal operation. If DTCs B1369:09, B137D:18, 19, or 71 were retrieved, REFER to DTC Charts in this section. For all other <u>SCCM</u> DTCs, REFER to the <u>SCCM</u> DTC Chart in Section 211-05 . CLEAR the DTCs. REPEAT the self-test. TEST the system for normal operation.						
C2 CHECK THE <u>SCCM</u> HALL-EFFECT SENSOR CIRCUITS FOR AN OPEN - Ignition OFF. - Disconnect: Adjustable Pedals Motor C2159. - Disconnect: <u>SCCM</u> C2414C. - Measure the resistance between <u>SCCM</u> C2414C, harness side and adjustable pedals motor C2159, harness side as follows: <table><tr><th><u>SCCM</u></th><th>Circuit</th><th>Adjustable Pedals Motor</th></tr><tr><td>C2414C-</td><td>RPP06 (GN)</td><td>C2159-3</td></tr></table>	<u>SCCM</u>	Circuit	Adjustable Pedals Motor	C2414C-	RPP06 (GN)	C2159-3	Yes GO to C3 . No REPAIR the affected circuit(s). CLEAR the DTCs. REPEAT the self-test. TEST the system for normal operation.
<u>SCCM</u>	Circuit	Adjustable Pedals Motor					
C2414C-	RPP06 (GN)	C2159-3					

3		
C2414C-6	LPP06 (YE/BU)	C2159-4

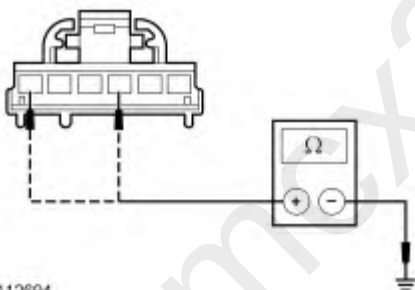


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- Are the resistances less than 5 ohms?

C3 CHECK THE SCCM HALL-EFFECT SENSOR CIRCUITS FOR A SHORT TO GROUND

- Measure the resistance between ground and:
 - SCCM C2414C-6, circuit LPP06 (YE/BU), harness side.
 - SCCM C2414C-3, circuit RPP06 (GN), harness side.



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- Are the resistances greater than 10,000 ohms?

YesGO to [C4](#).**No**

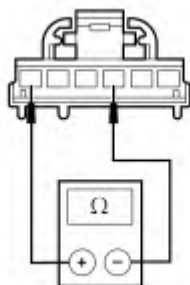
REPAIR the affected circuit(s). CLEAR the DTCs. REPEAT the self-test. TEST the system for normal operation.

C4 CHECK THE SCCM HALL-EFFECT SENSOR CIRCUITS FOR A SHORT TOGETHER

- Measure the resistance between SCCM C2414C-3, circuit RPP06 (GN), harness side and SCCM C2414C-6, circuit LPP06 (YE/BU), harness side.

YesGO to [C5](#).**No**

REPAIR the affected circuit(s). CLEAR the DTCs. REPEAT the self-test. TEST the system for normal operation.

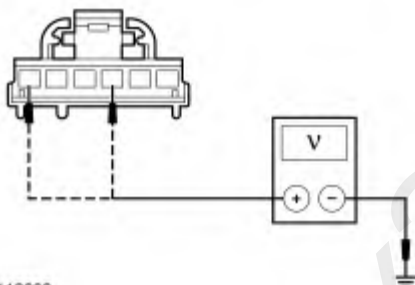


N0113510

- Is the resistance greater than 10,000 ohms?

C5 CHECK THE SCCM HALL-EFFECT SENSOR CIRCUITS FOR A SHORT TO VOLTAGE

- Ignition ON.
- Measure the voltage between ground and:
 - SCCM C2414C-6, circuit LPP06 (YE/BU), harness side.
 - SCCM C2414C-3, circuit RPP06 (GN), harness side.



N0112696

- Is any voltage present?

Yes

REPAIR the affected circuit(s). CLEAR the DTCs. REPEAT the self-test. TEST the system for normal operation.

No

INSTALL a new adjustable accelerator pedal and motor with attached cable. REFER to Accelerator Pedal — Adjustable, Exploded View in [Section 310-02](#). CLEAR the DTCs. REPEAT the self-test. TEST the system for normal operation. If DTC B1368:11 or B1368:12 return, INSTALL a new SCCM. REFER to [Section 211-05](#). CLEAR the DTCs. REPEAT the self-test. TEST the system for normal operation.

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