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HANDLES, LOCKS, LATCHES AND ENTRY SYSTEMS

LOCKS, LATCHES AND ENTRY SYSTEMS (G2401040)

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PRINCIPLES OF OPERATION

For a detailed description of the Locks, Latches and Entry Systems, refer to the relevant Description and Operation section in the workshop manual. REFER to: [Handles, Locks, Latches and Entry Systems](#) (501-14 Handles, Locks, Latches and Entry Systems, Description and Operation).

INSPECTION AND VERIFICATION

 CAUTIONS:

- Diagnosis by substitution from a donor vehicle is **NOT** acceptable. Substitution of control modules does not guarantee confirmation of a fault, and may also cause additional faults in the vehicle being tested and /or the donor vehicle.
- The vehicle latches are non-serviceable. Lubrication must not be sprayed into or around the door, hood, fuel flap or tailgate latches. Care should be taken when washing the vehicle to not spray water at or into the latches

 NOTES:

- If a control module or a component may be at fault and the vehicle remains under manufacturer warranty, refer to the Warranty Policy and Procedures manual, or determine if any prior approval program is in operation, prior to the installation of a new module/component.
- When performing voltage or resistance tests, always use a digital multimeter accurate to three decimal places, and with an up-to-date calibration certificate. When testing resistance always take the resistance of the digital multimeter leads into account.
- Check and rectify basic faults before beginning diagnostic routines involving pinpoint tests.

1. Verify the customer concern

2. Visually inspect for obvious signs of damage and system integrity

Visual Inspection

MECHANICAL	ELECTRICAL
■ Doors, hood and tailgate alignment ■ Fuel flap actuator ■ Hood release handle ■ Hood release cables	■ Fuses ■ Wiring harnesses and connectors ■ Central junction box ■ Body control module

MECHANICAL	ELECTRICAL
■ Hood latches ■ Door latches and strikers ■ Tailgate latch and striker ■ Door exterior handles ■ Door interior handles ■ Tailgate release switch	■ Remote function actuator ■ Smart keys

3. If an obvious cause for an observed or reported concern is found, correct the cause (if possible) before proceeding to the next step

4. If the cause is not visually evident, verify the symptom and refer to the Symptom Chart, alternatively check for Diagnostic Trouble Codes (DTCs) and refer to the DTC Index

5. Check JLR claims submission system for open campaigns. Refer to the corresponding bulletins and SSMS which may be valid for the specific customer complaint and complete the recommendations as required

SYMPTOM CHART



NOTE:

Before commencing fault diagnostics, make sure that the vehicles' normal locking/entry features (for example, internally locked mode, externally locked mode, single vs double locking modes, single point entry vs global entry modes) are not the cause of the locking/latch issues reported by the customer). See the Description and Operation Section 501-14 for further details of locking/entry options and functionality.

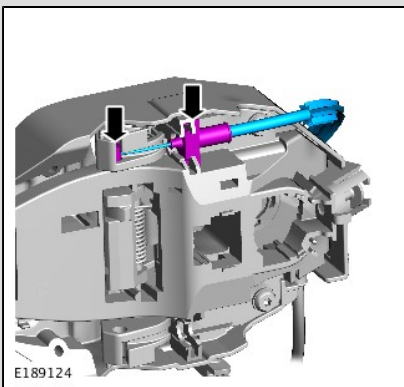
SYMPTOM	POSSIBLE CAUSES	ACTION
Front or rear door will not open when using the exterior door handle - Interior door handle functions normally	■ Exterior door handle damaged ■ Exterior door handle release cable disconnected from the exterior door handle ■ Exterior door handle release cable disconnected from the door latch ■ Exterior door handle release cable twisted ■ Door latch internal failure	■ GO to Pinpoint Test A.
Front or rear door will not open when using the interior door handle - Exterior door handle functions normally	■ Child locks engaged - Rear doors only	■ GO to Pinpoint Test C.

SYMPTOM	POSSIBLE CAUSES	ACTION
	■ Interior door handle damaged ■ Interior door handle release cable disconnected from the interior door handle ■ Interior door handle release cable disconnected from the door latch ■ Interior door handle release cable retaining clip and/or housing damaged ■ Door latch internal failure	
 NOTE: The vehicle will not lock if the hood, the tailgate or a door is detected as open. The battery back-up sounder or passive sounder will emit a double chirp to signify a mis-lock. Message center indicates that a door is open when it is physically closed	■ Door striker adjustment incorrect ■ Door ajar switch circuit open circuit ■ Door latch internal failure - Door ajar switch	■ GO to Pinpoint Test E.
Door will not lock/unlock - One door only	■ Central door locking motor circuit short circuit to ground, short circuit to power, open circuit, high resistance ■ Door latch internal failure	■ GO to Pinpoint Test F.
Doors will not lock/unlock - All doors	■ Central door locking system fault	■ Using the manufacturer approved diagnostic system, check the central junction box for related DTCs and refer to the relevant DTC index
Door will not lock/unlock mechanically using the emergency key barrel	■ Exterior door handle damaged ■ Emergency key barrel cable disconnected from the emergency key barrel ■ Emergency key barrel cable disconnected from the door latch ■ Door latch internal failure	■ GO to Pinpoint Test G.
Fuel flap will not lock or unlock	■ Fuel flap release motor detached from mounting bracket	■ Check the integrity of the fuel flap release motor installation

SYMPTOM	POSSIBLE CAUSES	ACTION
	- Fuel flap release motor circuit short circuit to ground, short circuit to power, open circuit, high resistance - Fuel flap release motor internal failure	- Refer to the electrical circuit diagrams and check the fuel flap release motor circuit for short circuit to ground, short circuit to power, open circuit, high resistance - Using the manufacturer approved diagnostic system, check the central junction box for related DTCs and refer to the relevant DTC index

PINPOINT TESTS

PINPOINT TEST A : INITIAL CHECKS	
A1: MODULE SOFTWARE AND CONNECTORS TESTS	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Using the Jaguar Land Rover approved diagnostic equipment, check for the latest level door module software and reconfigure the door module
	Is a latch-system fault still evident? Yes GO to Pinpoint Test B . No No further action required

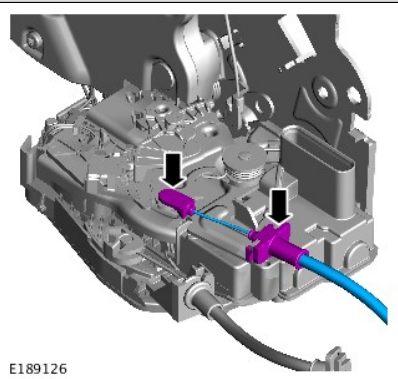
PINPOINT TEST B : EXTERIOR DOOR HANDLE TESTS	
B1: EXTERIOR DOOR HANDLE TEST 1	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Remove the interior door trim as necessary. REFER to:(501-05 Interior Trim and Ornamentation) Front Door Trim Panel (Removal and Installation), Rear Door Trim Panel (Removal and Installation).
	2 Check the exterior door handle release cable for correct installation to the exterior door handle.
	Is the exterior door handle release cable correctly installed to the exterior door handle?

PINPOINT TEST B : EXTERIOR DOOR HANDLE TESTS

B1: EXTERIOR DOOR HANDLE TEST 1

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	Yes GO toB2. No Install the exterior door handle release cable to the exterior door handle. If the exterior door handle release cable is damaged, install a new exterior door handle release cable. GO toB8.

B2: EXTERIOR DOOR HANDLE TEST 2

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
 E189126	1 Check the exterior door handle release cable for correct installation to the door latch.
	Is the exterior door handle release cable correctly installed to the door latch? Yes GO toB3. No Install the exterior door handle release cable to the door latch. If the exterior door handle release cable is damaged, install a new exterior door handle release cable. GO toB8.

B3: EXTERIOR DOOR HANDLE TEST 3

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Check the exterior door handle inner release cable for twists.
	Is the exterior door handle inner release cable twisted? Yes Disconnect the exterior door handle release cable from the latch. Allow the exterior door handle inner release cable to untwist. Re-connect the exterior door handle release cable. GO toB8. No GO toB4.

B4: EXTERIOR DOOR HANDLE TEST 4

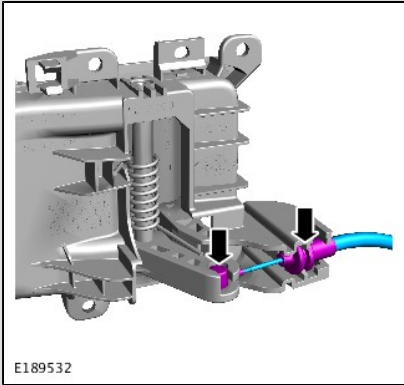
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Check the door latch electrical connector for correct installation.
	Is the door latch electrical connector installed correctly? Yes GO toB5. No Install the door latch electrical connector correctly and retest.

B5: EXTERIOR DOOR HANDLE TEST 5	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Disconnect the door latch electrical connector.
	2 Check the door latch electrical connector terminals for damage and corrosion.
	Are the door latch electrical connector terminals damaged/corroded? Yes Repair the door latch electrical connector or install a new door latch as necessary. REFER to:(501-14 Handles, Locks, Latches and Entry Systems) Front Door Latch (Removal and Installation), Rear Door Latch (Removal and Installation). No GO toB6.
B6: EXTERIOR DOOR HANDLE TEST 6	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	 NOTE: This step applies when testing the front left or rear left door. 1 Connect a voltmeter to terminal 6 and terminal 7 of the door latch wiring harness connector.
	 NOTE: This step applies when testing the front right or rear right door. 2 Connect a voltmeter to terminal 3 and terminal 2 of the door latch wiring harness connector.
	3 Using the smart key, lock the vehicle and check the measured voltage.
	Is the measured voltage greater than 10.0 V? Yes GO toB7. No Refer to the electrical circuit diagrams and check the door latch single locking circuit for short circuit to ground, short circuit to power, open circuit, high resistance.
B7: EXTERIOR DOOR HANDLE TEST 7	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Using the smart key, unlock the vehicle.
	 NOTE: This step applies when testing the front left or rear left door. 2 Connect a voltmeter to terminal 8 and terminal 7 of the door latch wiring harness connector.
	 NOTE: This step applies when testing the front right or rear right door. 3 Connect a voltmeter to terminal 1 and terminal 2 of the door latch wiring harness connector.

B7: EXTERIOR DOOR HANDLE TEST 7	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	4 Using the smart key, double lock the vehicle and check the measured voltage.
	Is the measured voltage greater than 10.0 V? Yes Reconnect the electrical connector and GO toB8. No Refer to the electrical circuit diagrams and check the door latch double locking circuit for short circuit to ground, short circuit to power, open circuit, high resistance.
B8: EXTERIOR DOOR HANDLE TEST 8	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Open the door.
	2 Using a suitable tool, close the door latch claw to the fully closed position.
	3 Using the exterior door handle, attempt to open the door latch.
	Did the door latch open? Yes GO toB9. No Install a new door latch as necessary. REFER to:(501-14 Handles, Locks, Latches and Entry Systems) Front Door Latch (Removal and Installation), Rear Door Latch (Removal and Installation).
B9: EXTERIOR DOOR HANDLE TEST 9	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Check the operation of the exterior door handle and door latch: - Close the door fully. - Using the smart key, lock the vehicle.  NOTES: - The door should not open during this sub-step. - The smart key must be out of range of the vehicle during this sub-step - Passive entry vehicles only. - Using the exterior door handle, attempt to open the door. - Using the smart key, unlock the vehicle.  NOTE: The door should open during this sub-step. - Using the exterior door handle, attempt to open the door.
	2 Perform step 1 a total of five times.
	Did the exterior door handle and door latch function correctly during every test? Yes

B9: EXTERIOR DOOR HANDLE TEST 9	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	Repair complete. No Install a new door latch as necessary. REFER to:(501-14 Handles, Locks, Latches and Entry Systems) Front Door Latch (Removal and Installation), Rear Door Latch (Removal and Installation).

PINPOINT TEST C : INITIAL CHECKS	
C1: MODULE SOFTWARE AND CONNECTORS TESTS	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Using the Jaguar Land Rover approved diagnostic equipment, check for the latest level door module software and reconfigure the door module
	Is a latch-system fault still evident? Yes GO to Pinpoint Test D . No No further action required

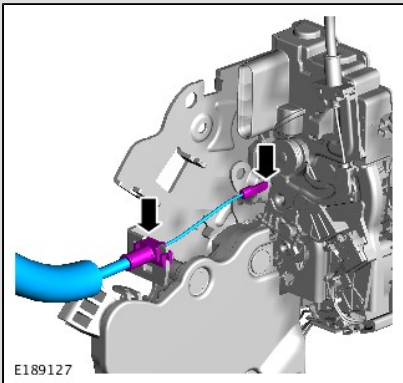
PINPOINT TEST D : INTERIOR DOOR HANDLE TESTS	
D1: INTERIOR DOOR HANDLE TEST 1	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
 NOTE: If the door is a rear door, make sure that the child locks are not engaged and the fault is still present before continuing.	
	1 Remove the interior door trim as necessary. REFER to:(501-05 Interior Trim and Ornamentation) Front Door Trim Panel (Removal and Installation), Rear Door Trim Panel (Removal and Installation).
	2 Check the interior door handle release cable for correct installation to the interior door handle.
	Is the interior door handle release cable correctly installed to the interior door handle? Yes GO to D2 .

PINPOINT TEST D : INTERIOR DOOR HANDLE TESTS

D1: INTERIOR DOOR HANDLE TEST 1

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	No Install the interior door handle release cable to the interior door handle. If the interior door handle release cable is damaged, install a new interior door handle release cable. GO toD8.

D2: INTERIOR DOOR HANDLE TEST 2

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	NOTE: There is a redundant cable bracket on the door latch housing that is utilized by vehicles with soft closing. The interior door handle release cable should not be installed to this cable bracket. 1 Check the interior door handle release cable for correct installation to the door latch. Is the interior door handle release cable correctly installed to the door latch? Yes GO toD3. No Install the interior door handle release cable to the door latch. If the interior door handle release cable is damaged, install a new interior door handle release cable. GO toD8.

D3: INTERIOR DOOR HANDLE TEST 3

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Check the interior door handle release cable retaining clip and housing at the door latch for damage. Is the retaining clip and/or housing damaged? Yes Install a new door latch as necessary. REFER to:(501-14 Handles, Locks, Latches and Entry Systems) Front Door Latch (Removal and Installation), Rear Door Latch (Removal and Installation). No GO toD4.

D4: INTERIOR DOOR HANDLE TEST 4

TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Check the door latch electrical connector for correct installation. Is the door latch electrical connector installed correctly? Yes GO toD5. No Install the door latch electrical connector correctly and retest.

D5: INTERIOR DOOR HANDLE TEST 5	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Disconnect the door latch electrical connector.
	2 Check the door latch electrical connector terminals for damage and corrosion.
	Are the door latch electrical connector terminals damaged/corroded? Yes Repair the door latch electrical connector or install a new door latch as necessary. REFER to:(501-14 Handles, Locks, Latches and Entry Systems) Front Door Latch (Removal and Installation), Rear Door Latch (Removal and Installation). No GO toD6.
D6: INTERIOR DOOR HANDLE TEST 6	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	 NOTE: This step applies when testing the front left or rear left door. 1 Connect a voltmeter to terminal 6 and terminal 7 of the door latch wiring harness connector.
	 NOTE: This step applies when testing the front right or rear right door. 2 Connect a voltmeter to terminal 3 and terminal 2 of the door latch wiring harness connector.
	3 Using the smart key, lock the vehicle and check the measured voltage.
	Is the measured voltage greater than 10.0 V? Yes GO toD7. No Refer to the electrical circuit diagrams and check the door latch single locking circuit for short circuit to ground, short circuit to power, open circuit, high resistance.
D7: INTERIOR DOOR HANDLE TEST 7	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Using the smart key, unlock the vehicle.
	 NOTE: This step applies when testing the front left or rear left door. 2 Connect a voltmeter to terminal 8 and terminal 7 of the door latch wiring harness connector.
	 NOTE: This step applies when testing the front right or rear right door. 3 Connect a voltmeter to terminal 1 and terminal 2 of the door latch wiring harness connector.

D7: INTERIOR DOOR HANDLE TEST 7	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	4 Using the smart key, double lock the vehicle and check the measured voltage.
	Is the measured voltage greater than 10.0 V? Yes Reconnect the electrical connector and GO toD8. No Refer to the electrical circuit diagrams and check the door latch double locking circuit for short circuit to ground, short circuit to power, open circuit, high resistance.
D8: INTERIOR DOOR HANDLE TEST 8	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Open the door.
	2 Using a suitable tool, close the door latch claw to the fully latched position.
	3 Using the interior door handle, attempt to open the door latch.
	Did the door latch open? Yes GO toD9. No Install a new door latch as necessary. REFER to:(501-14 Handles, Locks, Latches and Entry Systems) Front Door Latch (Removal and Installation), Rear Door Latch (Removal and Installation).
D9: INTERIOR DOOR HANDLE TEST 9	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Check the operation of the interior door handle and door latch: - Close the door fully. - Using the smart key, double lock the vehicle.  NOTE: The door should not open during this sub-step. - Using the interior door handle, attempt to open the door. - Using the smart key, unlock the vehicle.  NOTE: The door should open during this sub-step. - Using the interior door handle, attempt to open the door.
	2 Perform step 1 a total of five times.
	Did the interior door handle and door latch function correctly during every test? Yes Repair complete. No Install a new door latch as necessary. REFER to:(501-14 Handles, Locks, Latches and Entry Systems)

D9: INTERIOR DOOR HANDLE TEST 9	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	Front Door Latch (Removal and Installation), Rear Door Latch (Removal and Installation).

PINPOINT TEST E : DOOR AJAR TESTS	
E1: DOOR AJAR TEST 1	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Open the door.
	2 Using a suitable tool, close the door latch claw to the fully latched position.
	3 Set the ignition to on.
	4 Check the message center for a 'DOOR OPEN' message.
	Does the message center indicate that the door is open? Yes GO to E2. No Adjust the door striker outwards by 1 mm. Check that panel flushness has not been affected by this adjustment. REFER to: Body and Frame - 110 (501-26 Body Repairs - Vehicle Specific Information and Tolerance Checks, Description and Operation). Retest.
E2: DOOR AJAR TEST 2	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Remove the interior door trim as necessary. REFER to:(501-05 Interior Trim and Ornamentation) Front Door Trim Panel (Removal and Installation), Rear Door Trim Panel (Removal and Installation).
	2 Check the door latch electrical connector for correct installation.
	Is the door latch electrical connector installed correctly? Yes GO to E3. No Install the door latch electrical connector correctly and retest.
E3: DOOR AJAR TEST 3	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Disconnect the door latch electrical connector.
	2 Check the door latch electrical connector terminals for damage and corrosion.
	Are the door latch electrical connector terminals damaged/corroded? Yes Repair the door latch electrical connector or install a new door latch as necessary. REFER to:(501-14 Handles, Locks, Latches and Entry Systems) Front Door Latch (Removal and Installation), Rear Door Latch (Removal and Installation). No GO to E4.

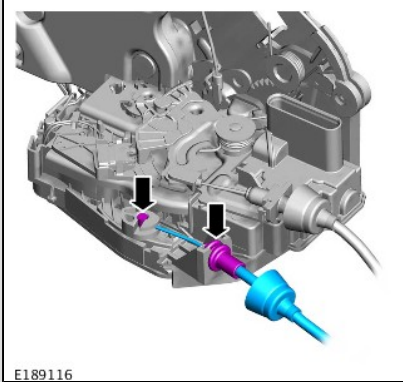
E4: DOOR AJAR TEST 4	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
 NOTE: Make sure that the door latch claw remains in the fully latched position during this test.	
	1 Re-connect the door latch electrical connector.
	2 Set the ignition to on.
	3 Check the message center for a 'DOOR OPEN' message.
	Does the message center indicate that the door is open? Yes GO toE5. No GO toE6.
E5: DOOR AJAR TEST 5	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
 NOTE: Make sure that the door latch claw remains in the fully latched position during this test.	
	1 Disconnect the door latch electrical connector.
	 NOTE: This step applies when testing the front left or rear left door.
	2 Using a suitable link wire, temporarily connect terminal 3 of the wiring harness connector to terminal 4 of the wiring harness connector.
	 NOTE: This step applies when testing the front right or rear right door.
	3 Using a suitable link wire, temporarily connect terminal 6 of the wiring harness connector to terminal 5 of the wiring harness connector.
	4 Check the message center for a 'DOOR OPEN' message.
	Does the message center indicate that the door is open? Yes Refer to the electrical circuit diagrams and check the door ajar switch circuit for open circuit, high resistance. Repair the wiring harness as necessary. No Install a new door latch as necessary. REFER to:(501-14 Handles, Locks, Latches and Entry Systems) Front Door Latch (Removal and Installation), Rear Door Latch (Removal and Installation).
E6: DOOR AJAR TEST 6	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Re-connect the door latch electrical connector.

E6: DOOR AJAR TEST 6	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	2 Check the operation of the door ajar switch: - Close the door.  NOTE: A DOOR OPEN message should not be displayed. - Check the message center for a DOOR OPEN message. - Open the door.  NOTE: A DOOR OPEN message should be displayed. - Check the message center for a DOOR OPEN message.
	3 Perform step 2 a total of five times.
	Did the door ajar switch function correctly? Yes Repair complete. No Install a new door latch as necessary. REFER to:(501-14 Handles, Locks, Latches and Entry Systems) Front Door Latch (Removal and Installation), Rear Door Latch (Removal and Installation).

PINPOINT TEST F : DOOR LOCKING TESTS	
F1: DOOR LOCKING TEST 1	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Remove the interior door trim as necessary. REFER to:(501-05 Interior Trim and Ornamentation) Front Door Trim Panel (Removal and Installation), Rear Door Trim Panel (Removal and Installation).
	2 Check the door latch electrical connector for correct installation.
	Is the door latch electrical connector installed correctly? Yes GO to F2. No Install the door latch electrical connector correctly and retest.
F2: DOOR LOCKING TEST 2	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Remove the door latch electrical connector.
	2 Check the door latch electrical connector terminals for damage and corrosion.
	Are the door latch electrical connector terminals damaged/corroded? Yes

F2: DOOR LOCKING TEST 2	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	Repair the door latch electrical connector or install a new door latch as necessary. REFER to:(501-14 Handles, Locks, Latches and Entry Systems) Front Door Latch (Removal and Installation), Rear Door Latch (Removal and Installation). No GO toF3.
F3: DOOR LOCKING TEST 3	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	 NOTE: This step applies when testing the front left or rear left door. 1 Connect a voltmeter to terminal 6 and terminal 7 of the door latch wiring harness connector.
	 NOTE: This step applies when testing the front right or rear right door. 2 Connect a voltmeter to terminal 3 and terminal 2 of the door latch wiring harness connector.
	3 Using the smart key, lock the vehicle and check the measured voltage.
	Is the measured voltage greater than 10.0 V? Yes GO toF4. No Refer to the electrical circuit diagrams and check the door latch single locking circuit for short circuit to ground, short circuit to power, open circuit, high resistance.
F4: DOOR LOCKING TEST 4	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Using the smart key, unlock the vehicle.
	 NOTE: This step applies when testing the front left or rear left door. 2 Connect a voltmeter to terminal 8 and terminal 7 of the door latch wiring harness connector.
	 NOTE: This step applies when testing the front right or rear right door. 3 Connect a voltmeter to terminal 1 and terminal 2 of the door latch wiring harness connector.
	4 Using the smart key, double lock the vehicle and check the measured voltage.
	Is the measured voltage greater than 10.0 V? Yes Install a new door latch as necessary. REFER to:(501-14 Handles, Locks, Latches and Entry Systems) Front Door Latch (Removal and Installation), Rear Door Latch (Removal and Installation).

F4: DOOR LOCKING TEST 4	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	No Refer to the electrical circuit diagrams and check the door latch double locking circuit for short circuit to ground, short circuit to power, open circuit, high resistance.

PINPOINT TEST G : EMERGENCY KEY BARREL TESTS	
G1: EMERGENCY KEY BARREL TEST 1	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Remove the interior door trim. REFER to: Front Door Trim Panel (501-05 Interior Trim and Ornamentation, Removal and Installation).
 E189116	2 Check the emergency key barrel cable for correct installation to the door latch.
	Is the emergency key barrel cable correctly installed to the door latch? Yes GO to G2. No Install the emergency key barrel cable to the door latch. If the emergency key barrel cable is damaged, install a new emergency key barrel cable. GO to G4.
G2: EMERGENCY KEY BARREL TEST 2	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Using a suitable tool, close the door latch claw to the fully latched position.
	2 Using the emergency key, lock and unlock the door. Check that the emergency key barrel cable pushes and pulls the door latch linkage.
	Does the door latch linkage move when the door is locked and unlocked? Yes GO to G3. No Install the emergency key barrel cable to the exterior door handle. If the emergency key barrel cable is damaged, install a new emergency key barrel cable. GO to G4.
G3: EMERGENCY KEY BARREL TEST 3	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Open the door.

G3: EMERGENCY KEY BARREL TEST 3	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	2 Using a suitable tool, close the door latch claw to the fully latched position.
	3 Using the emergency key barrel, lock the door.
	4 Using the exterior door handle, attempt to open the door latch.
	Did the door latch open? Yes Install a new door latch. REFER to: Front Door Latch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation). No GO to G4.
G4: EMERGENCY KEY BARREL TEST 4	
TEST CONDITIONS	DETAILS/RESULTS/ACTIONS
	1 Check the operation of the emergency key barrel and door latch: - Close the door fully. - Using the emergency key barrel, lock the door.  NOTES: - The door should not open during this sub-step. - The smart key must be out of range of the vehicle during this sub-step - Passive entry vehicles only. - Using the exterior door handle, attempt to open the door. - Using the emergency key barrel, unlock the door.  NOTE: The door should open during this sub-step. - Using the exterior door handle, attempt to open the door.
	2 Perform step 1 a total of five times.
	Did the emergency key barrel and door latch function correctly during every test? Yes Repair complete. No Install a new door latch. REFER to: Front Door Latch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).

DTC INDEX

For a list of Diagnostic Trouble Codes (DTCs) that could be set on this vehicle, please refer to Section 100-00.
REFER to:(100-00 General Information)

[Diagnostic Trouble Code Index - DTC: Body Control Module \(BCM\)](#) (Description and Operation),
[Diagnostic Trouble Code Index - DTC: Driver/ Passenger/ Rear Door Module \(DDM/PDM/RDM\)](#) (Description and Operation).

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