

PINPOINT TEST G: A SINGLE OR MORE THAN ONE DOOR LOCK IS INOPERATIVE**- [Introduction](#)**

Refer to Wiring Diagrams Cell [117](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Handles, Locks, Latches and Entry Systems - System Operation and Component Description (501-14 Handles, Locks, Latches and Entry Systems, Description and Operation).

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Condition
BCM B1586:11	Central Unlock Output: Circuit Short To Ground	Sets when the BCM detects a short to ground on one of the door unlatch output circuits.
BCM B1586:12	Central Unlock Output: Circuit Short To Battery	Sets when the BCM detects a short to battery on one of the door unlatch output circuits.
BCM B1586:13	Central Unlock Output: Circuit Open	Sets when the BCM detects an open on one of the door unlock output circuits.
BCM B1587:11	Driver Door Unlock Output: Circuit Short To Ground	Sets when the BCM detects a short to ground on the driver door unlock output circuits.
BCM B1587:12	Driver Door Unlock Output: Circuit Short To Battery	Sets when the BCM detects a short to battery on the driver door unlock output circuits.
BCM B1587:13	Driver Door Unlock Output: Circuit Open	Sets when the BCM detects an open on the driver door unlock output circuits.

Possible Causes

- Wiring, terminals or connectors
- Door latch
- BCM

G1 CHECK THE DOOR LATCH FOR BINDING

- Lock and unlock the inoperative door using the manual door lock.

Does the door lock and unlock?

Yes	GO to G2
No	INSTALL a new door or tailgate latch. REFER to: Front Door Latch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation). REFER to: Rear Door Latch - 5-Door (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).

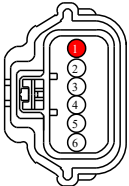
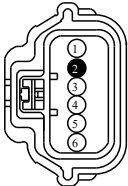
G2 CHECK THE DOOR LATCH

NOTICE: The following test step uses a test lamp to simulate normal circuit loads. Use only a Rotunda Test Lamp (SGT27000) or 250-300 mA incandescent bulb test lamp. To avoid connector terminal damage, use the Rotunda Flex Probe kit for the test lamp probe connection to the vehicle. Do not use the test lamp probe directly on any connector.

- Disconnect suspect door latch.
- Connect the test lamp:

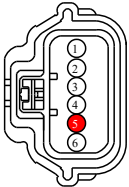
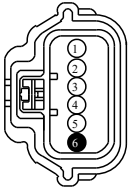
LF Door Latch

Connect a non-powered test lamp between:

Lead 1	Measurement / Action	Lead 2
FRONT DOOR LATCH LH  C525 Pin 1		FRONT DOOR LATCH LH  C525 Pin 2

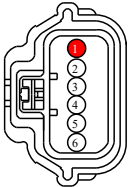
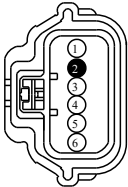
RF Door Latch

Connect a non-powered test lamp between:

Lead 1	Measurement / Action	Lead 2
FRONT DOOR LATCH RH  C606 Pin 5		FRONT DOOR LATCH RH  C606 Pin 6

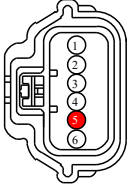
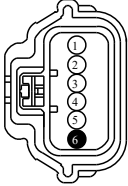
LR Door Latch (5-door only)

Connect a non-powered test lamp between:

Lead 1	Measurement / Action	Lead 2
REAR DOOR LATCH LH  C750 Pin 1		REAR DOOR LATCH LH  C750 Pin 2

RR Door Latch (5-door only)

Connect a non-powered test lamp between:

Lead 1	Measurement / Action	Lead 2
REAR DOOR LATCH RH  C850 Pin 5		REAR DOOR LATCH RH  C850 Pin 6

- NOTE: The BCM only supplies voltage to the actuator momentarily. It is important to monitor the test lamp while pressing the switch.

While pressing the door lock control switch in the lock then unlock position, monitor the test lamp.

Does the test lamp momentarily illuminate in both directions?

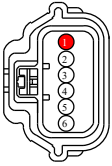
Yes	INSTALL a new door latch in question. REFER to: Front Door Latch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation). REFER to: Rear Door Latch - 5-Door (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).
No	GO to G3

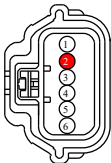
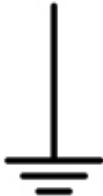
G3 CHECK THE DOOR AND TAILGATE LATCH LOCK CIRCUIT FOR A SHORT TO VOLTAGE

- Disconnect BCM [C2280C](#).

Front Door Latch LH

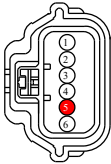
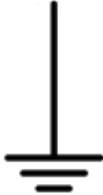
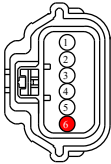
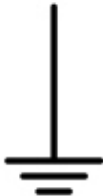
Measure the voltage between:

Positive Lead	Measurement / Action	Negative Lead
FRONT DOOR LATCH LH  C525 Pin 1		

FRONT DOOR LATCH LH  C525 Pin 2		
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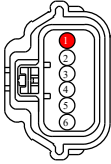
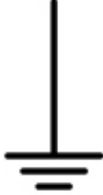
Front Door Latch RH

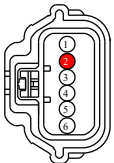
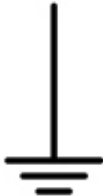
Measure the voltage between:

Positive Lead	Measurement / Action	Negative Lead
FRONT DOOR LATCH RH  C606 Pin 5		
FRONT DOOR LATCH RH  C606 Pin 6		

Rear Door Latch LH (5-door only)

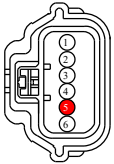
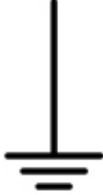
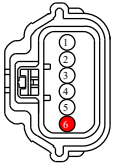
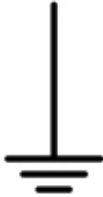
Measure the voltage between:

Positive Lead	Measurement / Action	Negative Lead
REAR DOOR LATCH LH  C750 Pin 1		

REAR DOOR LATCH LH  C750 Pin 2		
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Rear Door Latch RH (5-door only)

Measure the voltage between:

Positive Lead	Measurement / Action	Negative Lead
REAR DOOR LATCH RH  C850 Pin 5		
REAR DOOR LATCH RH  C850 Pin 6		

Is any voltage present?

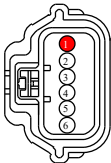
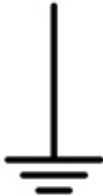
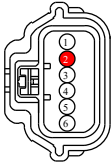
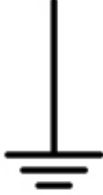
Yes	REPAIR the circuit in question.
No	GO to G4

G4 CHECK THE SUSPECT DOOR OR TAILGATE LATCH LOCK CIRCUIT FOR A SHORT TO GROUND

Front Door Latch LH

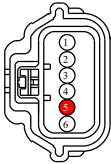
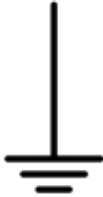
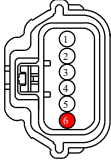
Measure the resistance between:

Positive Lead	Measurement / Action	Negative Lead

FRONT DOOR LATCH LH  C525 Pin 1	Ω	
FRONT DOOR LATCH LH  C525 Pin 2	Ω	

Front Door Latch RH

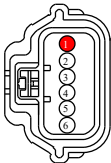
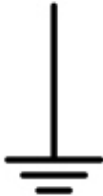
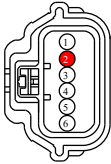
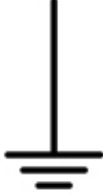
Measure the resistance between:

Positive Lead	Measurement / Action	Negative Lead
FRONT DOOR LATCH RH  C606 Pin 5	Ω	
FRONT DOOR LATCH RH  C606 Pin 6	Ω	

Rear Door Latch LH (5-door only)

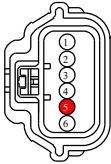
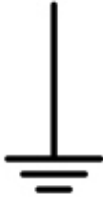
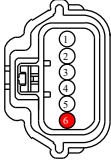
Measure the resistance between:

Positive Lead	Measurement / Action	Negative Lead

REAR DOOR LATCH LH  C750 Pin 1	Ω	
REAR DOOR LATCH LH  C750 Pin 2	Ω	

Front Door Latch RH (5-door only)

Measure the resistance between:

Positive Lead	Measurement / Action	Negative Lead
REAR DOOR LATCH RH  C850 Pin 5	Ω	
REAR DOOR LATCH RH  C850 Pin 6	Ω	

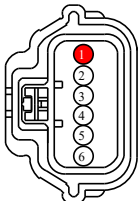
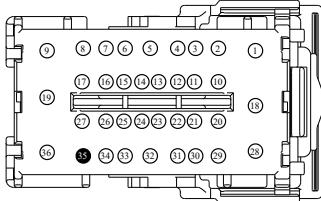
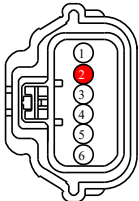
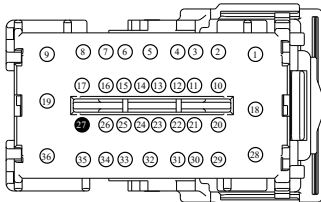
Are the resistances greater than 10,000 ohms?

Yes	GO to G5
No	REPAIR the circuit in question.

G5 CHECK THE SUSPECT DOOR OR TAILGATE LATCH LOCK CIRCUIT FOR AN OPEN

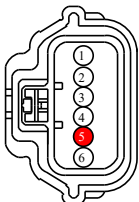
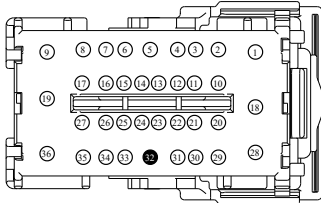
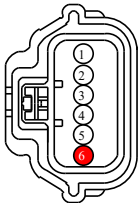
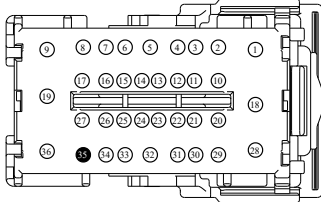
Front Door Latch LH

Measure the resistance between:

Positive Lead	Measurement / Action	Negative Lead
FRONT DOOR LATCH LH  C525 Pin 1	Ω	BODY CONTROL MODULE (BCM)  C2280C Pin 35
FRONT DOOR LATCH LH  C525 Pin 2	Ω	BODY CONTROL MODULE (BCM)  C2280C Pin 27

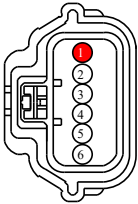
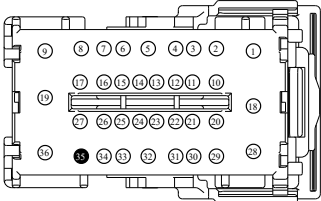
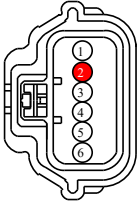
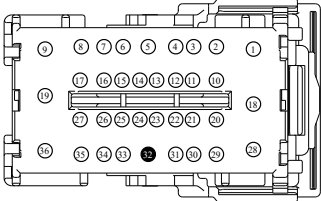
Front Door Latch RH

Measure the resistance between:

Positive Lead	Measurement / Action	Negative Lead
FRONT DOOR LATCH RH  C606 Pin 5	Ω	BODY CONTROL MODULE (BCM)  C2280C Pin 32
FRONT DOOR LATCH RH  C606 Pin 6	Ω	BODY CONTROL MODULE (BCM)  C2280C Pin 35

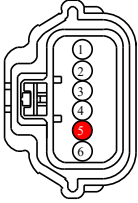
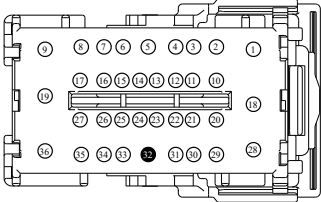
Rear Door Latch LH (5-door only)

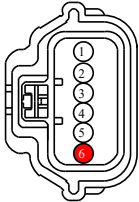
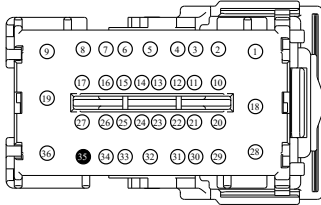
Measure the resistance between:

Positive Lead	Measurement / Action	Negative Lead
REAR DOOR LATCH LH  C750 Pin 1	Ω	BODY CONTROL MODULE (BCM)  C2280C Pin 35
REAR DOOR LATCH LH  C750 Pin 2	Ω	BODY CONTROL MODULE (BCM)  C2280C Pin 32

Rear Door Latch RH (5-door only)

Measure the resistance between:

Positive Lead	Measurement / Action	Negative Lead
REAR DOOR LATCH RH  C850 Pin 5	Ω	BODY CONTROL MODULE (BCM)  C2280C Pin 32

REAR DOOR LATCH RH  C850 Pin 6	Ω	BODY CONTROL MODULE (BCM)  C2280C Pin 35
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Are the resistances less than 3 ohms?

Yes	GO to G6
No	REPAIR the circuit in question.

G6 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect BCM connector [C2280C](#).
- Inspect for:
 - corrosion - clean module pins or install new connectors or terminals
 - damaged or bent pins - install new terminals pins
 - pushed-out pins - install new pins as necessary
- Connect **all** disconnected components and connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK for an applicable <u>TSB</u> , <u>GSB</u> , <u>SSM</u> or <u>FSA</u> . If a service bulletin exists for this concern, DISCONTINUE this test and FOLLOW the bulletin instructions. If none address this concern, INSTALL a new <u>BCM</u> . REFER to: Body Control Module (BCM) (419-10 Multifunction Electronic Modules, Diagnosis and Testing).
No	The system is operating correctly at this time. The concern may have been caused by module connections. Address the root cause of any connector or pin issues.