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2000 FORD Puma OEM Service and Repair Workshop Manual

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Yes	CHECK OASIS (Online Automotive Service Information System) for any applicable service articles: TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) , or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new PDM (passenger door module) . REFER to: Passenger Door Module (PDM) (419-10 Multifunction Electronic Modules, Removal and Installation).

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.

L5 CHECK FOR CORRECT DDM (DRIVER DOOR MODULE) OPERATION

- Disconnect and inspect all the DDM (driver door module) connectors.
- Repair:
  - corrosion (install new connectors or terminals - clean module pins)
  - damaged or bent pins - install new terminals pins
  - pushed-out pins - install new pins as necessary
- Reconnect the DDM (driver door module) connectors and 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 OASIS (Online Automotive Service Information System) for any applicable service articles: TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) , or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new DDM (driver door module) . REFER to: Driver Door Module (DDM) (419-10 Multifunction Electronic Modules, Removal and Installation).

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.

- Tailgate latch
- BCM (body control module)
- BJB (battery junction box)

Visual Inspection and Pre-checks

- Inspect the tailgate latch for damage.
- Check BJB (battery junction box) fuse 138 (10A) and make sure it is ok.

M1 CHECK THE TAILGATE LATCH MANUAL RELEASE

- Mechanically unlatch the tailgate.

Do both tailgate latches release?

Yes	GO to M2

No	INSTALL a new tailgate latch control assembly. REFER to: Tailgate Latch Control Assembly (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).

M2 CHECK THE EXTERIOR TAILGATE RELEASE SWITCH INPUT FOR A SHORT TO GROUND USING THE BCM (BODY CONTROL MODULE) LIFTGATE/DECKLID RELEASE OUTPUT (DECKLID_R_SW) PID (PARAMETER IDENTIFICATION)

- Ignition ON.
- Access the BCM (body control module) and monitor the DECKLID_R_SW (Liftgate/Decklid Release Output) PID (parameter identification)

Does the PID (parameter identification) indicate the tailgate release switch is continuously pressed?

Yes	GO to M3

No	GO to M8

M3 CHECK THE EXTERIOR TAILGATE RELEASE SWITCH INPUT USING THE BCM (BODY CONTROL MODULE) LIFTGATE/DECKLID RELEASE OUTPUT (DECKLID_R_SW) PID (PARAMETER IDENTIFICATION) WITH THE SWITCH DISCONNECTED

IDENTIFICATION)

- Ignition ON.
- Access the BCM (body control module) and monitor the DECKLID_R_SW (Liftgate/Decklid Release Output) PID (parameter identification)

Does the PID (parameter identification) indicate the tailgate release switch is continuously pressed?

Yes	GO to M6

No	GO to M8

M6 CHECK THE INTERIOR TAILGATE RELEASE SWITCH INPUT USING THE BCM (BODY CONTROL MODULE) LIFTGATE/DECKLID RELEASE OUTPUT (DECKLID_R_SW) PID (PARAMETER IDENTIFICATION) WITH THE SWITCH DISCONNECTED

- Ignition OFF.
- Disconnect Interior Tailgate Release Switch C2834 .
- Ignition ON.
- Access the BCM (body control module) and monitor the DECKLID_R_SW (Liftgate/Decklid Release Output) PID (parameter identification)

Does the PID (parameter identification) continue to indicate the switch is pressed?

Yes	GO to M7

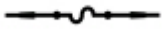
No	INSTALL a new tailgate release switch. REFER to: Tailgate Interior Release Switch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).

M7 CHECK THE INTERIOR TAILGATE RELEASE SWITCH INPUT CIRCUIT FOR A SHORT TO GROUND

- Ignition OFF.
- Disconnect BCM (body control module) C2280B .
- Measure:

Positive Lead	Measurement / Action	Negative Lead

Interior

Lead 1	Measurement / Action	Lead 2
C2834-2		Ground

- Access the BCM (body control module) and monitor the DECKLID_R_SW (Liftgate/Decklid Release Output) PID (parameter identification)

Does the PID (parameter identification) indicate the switch is pressed?

Yes	REMOVE the fused jumper wire. GO to M10

No	REMOVE the fused jumper wire. GO to M11

M10 CHECK THE TAILGATE RELEASE SWITCH GROUND CIRCUIT FOR AN OPEN

- Connect:

Exterior

Lead 1	Measurement / Action	Lead 2
C4499-1		C4499-2

Interior

Lead 1	Measurement / Action	Lead 2
C2834-2		C2834-3

- Access the BCM (body control module) and monitor the DECKLID_R_SW (Liftgate/Decklid Release Output) PID (parameter identification)

No	REPAIR the circuit.

M12 CHECK THE BCM (BODY CONTROL MODULE) TAILGATE RELEASE OUTPUT

NOTICE

The following step uses a test lamp to simulate normal circuit loads. Use only a Rotunda Test Lamp (SGT27000) or 250-300mA 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.

- Ignition OFF.
- Disconnect Tailgate Latch Actuator C4223 .
- Connect:

Lead 1	Measurement / Action	Lead 2
C4223-1		Ground

- Unlock the doors using the door lock control switch.
- **NOTE**

  The BCM (body control module) only supplies voltage to the actuator momentarily. It is important to monitor the test lamp while pressing the door lock control switch.

  While pressing the tailgate release switch, monitor the test lamp.

Does the test lamp momentarily illuminate?

Yes	GO to M13

No	GO to M14

M13 CHECK THE TAILGATE LATCH ACTUATOR GROUND CIRCUIT FOR AN OPEN

C4223-1	Ω	C2280C-33

Is the resistance less than 3 ohms?

Yes	GO to M15

No	REPAIR the circuit.

M15 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all the BCM (body control module) connectors.
- Repair:
  - corrosion (install new connectors or terminals - clean module pins)
  - damaged or bent pins - install new terminals pins
  - pushed-out pins - install new pins as necessary
- Reconnect the BCM (body control module) connectors and 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 OASIS (Online Automotive Service Information System) for any applicable service articles: TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) , or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new BCM (body control module) . REFER to: Body Control Module (BCM) (419-10 Multifunction Electronic Modules, Removal and Installation).

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.

PINPOINT TEST N : THE DOORS DO NOT LOCK OR UNLOCK USING THE KEYLESS ENTRY KEYPAD

No	GO to N5

N3 ISOLATE THE KEYLESS ENTRY KEYPAD

- Ignition OFF.
- Disconnect Keyless Entry Keypad C500 .
- Ignition ON.
- Using a diagnostic scan tool, clear the Diagnostic Trouble Codes (DTCs) and repeat the BCM (body control module) self-test.

Is DTC (diagnostic trouble code) B121B:01 still present?

Yes	GO to N4

No	INSTALL a new keyless entry keypad. REFER to: Keyless Entry Keypad (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).

N4 CHECK THE KEYLESS ENTRY KEYPAD INPUT CIRCUITS FOR A SHORT TO GROUND

- Ignition OFF.
- Disconnect BCM (body control module) C2280E .
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C500-1	Ω	Ground
C500-3	Ω	Ground
C500-5	Ω	Ground

Yes	GO to N11

No	GO to N7

N7 CHECK THE KEYLESS ENTRY KEYPAD GROUND CIRCUIT FOR AN OPEN

- Ignition OFF.
- Disconnect Keyless Entry Keypad C500 .
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C500-6	Ω	Ground

Is the resistance less than 3 ohms?

Yes	GO to N8

No	REPAIR the circuit.

N8 BYPASS THE KEYLESS ENTRY KEYPAD

- Ignition ON.
- Using a diagnostic scan tool, monitor the following BCM (body control module) Parameter Identifications (PIDs):
  - Access the BCM (body control module) and monitor the KYPD_BTN_1/2 (Keypad button 1/2) PID (parameter identification)
  - Access the BCM (body control module) and monitor the KYPD_BTN_7/8 (Keypad button 7/8) PID (parameter identification)
  - Access the BCM (body control module) and monitor the KYPD_BTN_9/0 (Keypad button 9/0) PID (parameter identification)
- Connect:

- Ignition OFF.
- Disconnect BCM (body control module) C2280E .
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C500-1	Ω	C2280E-28
C500-3	Ω	C2280E-2
C500-5	Ω	C2280E-15

Are the resistances less than 3 ohms?

Yes	GO to N10

No	REPAIR the circuit in question.

N10 CHECK THE KEYLESS ENTRY KEYPAD INPUT CIRCUITS FOR A SHORT TO EACH OTHER

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C500-1	Ω	C500-3
C500-1	Ω	C500-5