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1980 FORD Capri OEM Service and Repair Workshop Manual

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Yes	GO to B8

No	REPAIR the circuits.

B8 CHECK THE POWER HOOD MOTOR CIRCUITS FOR AN OPEN

No	GO to B14

B10 CHECK THE POWER HOOD MOTOR SENSOR CIRCUITS FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect FHCM (Front Hatch Control Module) C2332A .
- Disconnect Suspect Power Hood Motor. .
- Ignition ON.
- Measure:

Left Power Hood Motor

Positive Lead	Measurement / Action	Negative Lead
C1486-6	V⎓	Ground
C1486-3	V⎓	Ground
C1486-4	V⎓	Ground
C1486-1	V⎓	Ground

Right Power Hood Motor

Positive Lead	Measurement / Action	Negative Lead
C1485-6	V⎓	Ground
C1485-3	V⎓	Ground

Positive Lead	Measurement / Action	Negative Lead
C1485-6	Ω	Ground
C1485-3	Ω	Ground
C1485-4	Ω	Ground
C1485-1	Ω	Ground

Are the resistances greater than 10,000 ohms?

Yes	GO to B12

No	REPAIR the circuit in question.

B12 CHECK THE POWER HOOD MOTOR SENSOR CIRCUITS FOR A SHORT TOGETHER

- Measure:
  Left Power Hood Motor

Positive Lead	Measurement / Action	Negative Lead
C1486-6	Ω	C1486-3
C1486-6	Ω	C1486-4

Are the resistances greater than 10,000 ohms?

Yes	GO to B13

No	REPAIR the circuits in question.

B13 CHECK THE POWER HOOD MOTOR SENSOR CIRCUITS FOR AN OPEN

- Measure:
  Left Power Hood Motor

Positive Lead	Measurement / Action	Negative Lead
C1486-6	Ω	C2332A-10
C1486-3	Ω	C2332A-11
C1486-4	Ω	C2332A-12
C1486-1	Ω	C2332A-9

Right Power Hood Motor

Positive Lead	Measurement / Action	Negative Lead
C1485-6	Ω	C2332A-22

No	GO to B10

B15 CHECK THE HOOD LATCH MOTOR CIRCUITS FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect FHCM (Front Hatch Control Module) C2332A .
- Disconnect Power Hood Latch C2435 .
- Ignition ON.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2332A-13	V⎓	Ground
C2332A-14	V⎓	Ground

Is any voltage present?

Yes	REPAIR the circuit in question.

No	GO to B16

B16 CHECK THE HOOD LATCH MOTOR CIRCUITS FOR A SHORT TO GROUND

- Ignition OFF.
- Measure:

Positive Lead	Measurement / Action	Negative Lead

Positive Lead	Measurement / Action	Negative Lead
C2332A-13	Ω	C2435-3
C2332A-14	Ω	C2435-4

Are the resistances less than 10,000 ohms?

Yes	GO to B19

No	REPAIR the circuit in question.

B19 CHECK THE HOOD LATCH INPUT CIRCUITS FOR A SHORT TO GROUND

- Ignition OFF.
- Disconnect FHCM (Front Hatch Control Module) C2332B .
- Disconnect Front trunk latch C1858 .
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C1858-1	Ω	Ground
C1858-2	Ω	Ground
C1858-6	Ω	Ground

Are the resistances greater than 10,000 ohms?

C1858-1	Ω	C2332B-8
C1858-2	Ω	C2332B-18
C1858-6	Ω	C2332B-22

Are the resistances less than 3 ohms?

Yes	INSTALL a new release latch. REFER to: Hood Latch - Electric (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation). TEST the system for normal operation. If the concern is still present, GO to B22

No	REPAIR the circuit in question.

B22 CHECK FOR CORRECT FHCM (FRONT HATCH CONTROL MODULE) OPERATION

- Disconnect and inspect all FHCM (Front Hatch 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 all the FHCM (Front Hatch 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 Technical Service Bulletins (TSBs). If a TSB (Technical Service Bulletin) exists for this concern, DISCONTINUE this test and FOLLOW TSB (Technical Service Bulletin) instructions. If no Technical Service Bulletins (TSBs) address this concern, INSTALL a new FHCM (Front Hatch Control Module) . REFER to: Front Hatch Control Module (FHCM) - Electric

Use the correct probe adapter(s) when making measurements. Failure to use the correct probe adapter(s) may damage the connector.

C1 CHECK THE OPERATION OF THE POWER HOOD FROM ALL THE SWITCH INPUTS

- Ignition OFF.
- Select PARK.
- Ignition ON.
- Close the hood (manually if necessary).
- Unlock the doors using the door lock control switch.
- Close the hood to the full closed position (manually if necessary).
- Open and close the power hood using the front interior power hood switch (located on the instrument panel).
- Close the power hood using the exterior power hood switch (located on the bottom of the hood trim panel).

Does the power hood open or close from any input?

Yes	GO to C2

No	GO to Pinpoint Test B

C2 CHECK THE FHCM (FRONT HATCH CONTROL MODULE) POWER HOOD SWITCH PARAMETER IDENTIFICATIONS (PIDS)

- Using a diagnostic scan tool, view the FHCM (Front Hatch Control Module) Parameter Identifications (PIDs).
- Using a diagnostic scan tool, monitor the following FHCM (Front Hatch Control Module) Parameter Identifications (PIDs):
  - Access the FHCM (Front Hatch Control Module) and monitor the FRUNK_EXT_SW (Frunk External Switch Input) PID (parameter identification)
  - Access the FHCM (Front Hatch Control Module) and monitor the FRUNK_ESCAPE_SW (Frunk Escape Switch Input) PID (parameter identification)
  - Access the FHCM (Front Hatch Control Module) and monitor the FRUNK_IP_SW (Frunk Instrument Panel Input Switch) PID (parameter identification)

Do any of the Parameter Identifications (PIDs) indicate a switch is pressed?

Yes	GO to C3

REMOTE FRONT TRUNK RELEASE SWITCH

Positive Lead	Measurement / Action	Negative Lead
C2332B-12	Ω	Ground

EXTERNAL FRONT TRUNK RELEASE SWITCH

Positive Lead	Measurement / Action	Negative Lead
C2332B-7	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to C5

No	REPAIR the circuit.

C5 BYPASS THE SUSPECT POWER HOOD SWITCH

- Ignition OFF.
- Disconnect the suspect power hood switch.
- Unlock the doors using the door lock control switch.
- For the suspect power hood switch, connect:

  FRONT TRUNK COMPARTMENT LAMP SWITCH

Positive Lead	Measurement / Action	Negative Lead
C2610-1		C2610-2

REMOTE FRONT TRUNK RELEASE SWITCH