TA: Clutch Pedal Position (CPP) Switch

TA: Introduction

TA1 DTC P0704, P0830: CHECK THE CPP SWITCH

WARNING: BLOCK ALL WHEELS, SET THE PARKING BRAKE AND FIRMLY APPLY THE SERVICE BRAKE TO REDUCE THE RISK OF VEHICLE MOVEMENT DURING THIS PROCEDURE. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN SERIOUS PERSONAL INJURY.

Note: During self-test, the clutch pedal must be down and gearshift lever in NEUTRAL.

- Ignition ON, engine OFF.
- Access the PCM and monitor the CPP PID.

Does the reading cycle when the CPP switch is activated?

Yes	No
This may be an intermittent circuit concern. INSPECT connectors for signs of damage, water intrusion, corrosion. REPAIR as necessary.	GO to TA2 .

TA2 CHECK THE SWITCH CIRCUIT RESISTANCE

Note: The CPP switch is located near the clutch pedal.

Note: Measure the CPP switch resistance with the clutch pedal pressed down.

- Inspect the switches and brackets for damage. Repair as necessary.
- CPP Switch connector disconnected.
- For Focus or Escape:
- Measure the resistance between:

(+) CPP Switch Connector, Component Side	(-) CPP Switch Connector, Component Side
CPP	SIGRTN

- For all others:
- Measure the resistance between:

(+) CPP Switch Connector, Component Side	(-) CPP Switch Connector, Component Side
CPP	GND

Is the resistance less than 5 ohms?

Yes	No
GO to TA3 .	INSTALL a new CPP switch. CLEAR the DTCs. REPEAT the self-test.

TA3 CHECK THE CPP FOR INTERNAL SHORTS

Note: Measure the CPP switch resistance with the clutch pedal released.

- For Focus or Escape:
- Measure the resistance between:

(+) CPP Switch Connector, Component Side	(-) CPP Switch Connector, Component Side
CPP	SIGRTN

- For all others:
- Measure the resistance between:

(+) CPP Switch Connector, Component Side	(-) CPP Switch Connector, Component Side
CPP	GND

Is the resistance greater than 10K ohms?

Yes	No
For Focus or Escape, GO to TA5 . For all others, GO to TA4 .	INSTALL a new CPP switch. CLEAR the DTCs. REPEAT the self-test.

TA4 CHECK THE CPP AND GROUND CIRCUITS FOR AN OPEN IN THE HARNESS

- PCM connector disconnected.
- Measure the resistance between:

(+) CPP Switch Connector, Harness Side	(-) PCM Connector, Harness Side
CPP	CPP

- Measure the resistance between:

(+) CPP Switch Connector, Harness Side	(-)
GND	Ground

Is the resistance less than 5 ohms?

Yes	No
GO to TA6 .	REPAIR the open circuit. CLEAR the DTCs. REPEAT the self-test.

TA5 CHECK THE CPP AND SIGRTN CIRCUITS FOR AN OPEN IN THE HARNESS

- PCM connector disconnected.
- Measure the resistance between:

(+) PCM Connector, Harness Side	(-) CPP Switch Connector, Harness Side
CPP	CPP
SIGRTN	SIGRTN

Are the resistances less than 5 ohms?

Yes	No
GO to TA6 .	REPAIR the open circuit. CLEAR the DTCs. REPEAT the self-test.

TA6 CHECK THE CPP CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition ON, engine OFF.
- Measure the voltage between:

(+) CPP Switch Connector, Harness Side	(-)
CPP	Ground

Is the voltage less than 1 V?

Yes	No
GO to TA7 .	REPAIR the short circuit to PWR. CLEAR the DTCs. REPEAT the self-test.

TA7 CHECK THE CPP CIRCUIT FOR A SHORT TO GROUND IN THE HARNESS

- Ignition OFF.
- Measure the resistance between:

(+) CPP Switch Connector, Harness Side	(-)
CPP	Ground

Is the resistance greater than 10K ohms?

Yes	No
GO to TA8 .	REPAIR the short circuit. CLEAR the DTCs. REPEAT the self-test.

TA8 CHECK FOR CORRECT PCM OPERATION

- Disconnect all the PCM connectors.
- Visually inspect for:
  - pushed out pins
  - corrosion
- Connect all the PCM connectors and make sure they seat correctly.
- Carry out the PCM self-test and verify the concern is still present.

Is the concern still present?

Yes	No
INSTALL a new PCM. REFER to Section 2, Flash Electrically Erasable Programmable Read Only Memory (EEPROM) , Programming the VID Block for a Replacement PCM.	The system is operating correctly at this time. The concern may have been caused by a loose or corroded connector.