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2010 FORD Focus Coupe OEM Service and Repair Workshop Manual

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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 G : NO POWER IN ON - PUSH BUTTON IGNITION SWITCH

Refer to Wiring Diagrams Cell 20for schematic and connector information.

Normal Operation and Fault Conditions REFER to: Steering Wheel and Column Electrical Components - System Operation and Component Description (211-05 Steering Wheel and Column Electrical Components, Description and Operation).

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
BCM (body control module) B108A:01	Start Button: General Electrical Failure	Sets continuous when the BCM (body control module) detects a mismatch between the switch input circuits, one indicates closed and one indicates open.
BCM (body control module) B108A:24	Start Button: Signal Stuck High	Sets continuous when the BCM (body control module) detects a fault on one of the ignition switch input circuits for 10 seconds or longer.
BCM (body control module) B108A:9E	Start Button: Stuck On	Sets continuous when the BCM (body control module) detects only one switch input circuit indicating open when the start button is released.
BCM (body control module) B1142:29	Ignition Status 1: Signal Invalid	Sets during the on-demand self-test when the BCM (body control module) detects a fault from one of the ignition switch input circuits.

Yes	If DTC (diagnostic trouble code) B108A:01, B108A:24, B108A:9E or B1142:29 is present, GO to G4 Otherwise, GO to G2

No	CORRECT the battery condition.

G2 CHECK FOR BCM (BODY CONTROL MODULE) DTC (DIAGNOSTIC TROUBLE CODE) B1310:12 OR B1310:14

- Using a diagnostic scan tool, carry out the BCM (body control module) self-test.

Is DTC (diagnostic trouble code) B1310:12 or B1310:14 present?

Yes	GO to G19

No	GO to G3

G3 CHECK FOR IGNITION ON MODE

- Press and release the START/STOP button while monitoring the ignition mode indicator at the top of the button.

Does the ignition mode indicator flash on and off continuously?

Yes	GO to G19

No	GO to G4

G4 CHECK FOR A PATS (PASSIVE ANTI-THEFT SYSTEM) CONCERN

- Press the START/STOP button while monitoring the message center.

Does No key detected display in the message center?

Yes	REFER to: Perimeter Anti-Theft Alarm (419-01 Perimeter Anti-Theft Alarm) .

Yes	REPAIR the circuit.

No	GO to G7

G7 CHECK THE START/STOP 1 INPUT CIRCUIT FOR A SHORT TO THE START/STOP 2 INPUT CIRCUIT

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2195-1	Ω	C2195-6

Is the resistance greater than 10,000 ohms?

Yes	GO to G8

No	REPAIR the circuit.

G8 CHECK THE START/STOP 1 INPUT CIRCUIT FOR A SHORT TO GROUND

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2195-1	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to G9

Is the voltage greater than 11 volts?

Yes	GO to G12

No	GO to G11

G11 CHECK THE IGNITION SWITCH VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2195-4	Ω	C2280A-12

Is the resistance less than 3 ohms?

Yes	GO to G25

No	REPAIR the circuit.

G12 CHECK THE BCM (BODY CONTROL MODULE) START/STOP 1 INPUT CIRCUIT FOR AN OPEN

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2195-1	Ω	C2280B-51

Is the resistance less than 3 ohms?

No	GO to G15

G15 CHECK THE BCM (BODY CONTROL MODULE) START/STOP 2 INPUT CIRCUIT FOR A SHORT TO GROUND

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2195-6	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to G16

No	REPAIR the circuit.

G16 BYPASS THE PUSH BUTTON IGNITION SWITCH WHILE MONITORING THE IGNITION SWITCH 2 (START_STOP_2) PID (PARAMETER IDENTIFICATION)

- Connect BCM (body control module) C2280B .
- Using a diagnostic scan tool, view the BCM (body control module) Parameter Identification (PIDs).
- Access the BCM (body control module) and monitor the START_STOP_2 (Engine Start / Stop Button Circuit 2) PID (parameter identification)
- Connect:

Lead 1	Measurement / Action	Lead 2
C2195-6		Ground

- Remove the fused jumper wire.

Is the resistance less than 3 ohms?

Yes	GO to G25
No	REPAIR the circuit.

G19 CARRY OUT A NETWORK TEST

- Using a diagnostic scan tool, carry out the network test.

Does the IPC (instrument panel cluster) and the BCM (body control module) pass the network test?

Yes	VERIFY the BCM (body control module) fuse 20 (5A) is OK. If OK, GO to G20 If not OK, REFER to the Wiring Diagrams manual to identify the possible cause of the circuit short.
No	REFER to: Controller Area Network (CAN) Module Communications Network(418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).

G20 CHECK FOR AN INTERMITTENT COMMUNICATION CONCERN

- Using a diagnostic scan tool, retrieve the Continuous Mode Diagnostic Trouble Codes (CMDTCs) from all modules.

Are multiple communication Diagnostic Trouble Codes (DTCs) set in multiple modules?

Yes	DIAGNOSE an intermittent network concern. REFER to: Controller Area Network (CAN) Module Communications Network (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
No	If DTC (diagnostic trouble code) B1310:12 is present, GO to G24 Otherwise, GO to G21

G21 CHECK THE RUN/START RELAY CONTROL CIRCUIT FOR A SHORT TO GROUND

- Ignition OFF.

- Disconnect BCMC (body control module C) C1035B .
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2280F-25	Ω	C1035B-25

Is the resistance less than 3 ohms?

Yes	GO to G24

No	REPAIR the circuit.

G24 CHECK THE RUN/START RELAY CONTROL CIRCUIT FOR A SHORT TO VOLTAGE

- Disconnect BCM (body control module) C2280F .
- Disconnect BCMC (body control module C) C1035B .
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2280F-25	V⎓	Ground

Is any voltage present?

Yes	REPAIR the circuit.

No	CHECK OASIS 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 BCMC (body control module C) . REFER to: Body Control Module C (BCMC)

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
BCM (body control module) B1240:11	Start Button Mode Indicator: Circuit Short To Ground	Sets when the BCM (body control module) detects a short to ground from the ignition mode status indicator circuit.
BCM (body control module) B1240:15	Start Button Mode Indicator: Circuit Short To Battery Or Open	Sets when the BCM (body control module) detects an open from the ignition mode status indicator circuit.

Possible Sources

- Wiring, terminals or connectors
- Push button ignition switch
- BCM (body control module)

NOTICE

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

H1 CHECK FOR VOLTAGE TO THE IGNITION MODE INDICATOR

- Start the engine.
- Disconnect Push Button Ignition Switch C2195 .
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2195-2	V⎓	Ground

Is the voltage greater than 11 volts?

Yes	GO to H4

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2195-2	Ω	C2280B-39

Is the resistance less than 3 ohms?

Yes	GO to H5

No	REPAIR the circuit.

H4 CHECK THE IGNITION MODE INDICATOR GROUND CIRCUIT FOR AN OPEN

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2195-2	V	C2195-3

Is the voltage greater than 11 volts?

Yes	INSTALL a new push button ignition switch. REFER to: Ignition Switch - Vehicles With: Keyless Entry and Push Button Start (211-05 Steering Wheel and Column Electrical Components, Removal and Installation).

No	REPAIR the circuit.

H5 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM (body control module) connectors.