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2007 FORD Focus ST 5 Doors OEM Service and Repair Workshop Manual

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- Clear all message center warnings by pressing the OK button for each warning present.
- Monitor the door ajar RTT (reconfigurable telltale) warning indicator.
- Open the driver door.
- Clear the message center popup warning.
- Monitor the door ajar RTT (reconfigurable telltale) warning indicator.

Is the door ajar RTT (reconfigurable telltale) warning indicator off with the door closed, and on with the door open?

Yes	GO to AF2

No	GO to Pinpoint Test A

AF2 PERFORM THE IPC (INSTRUMENT PANEL CLUSTER) SELF-TEST

- Using a diagnostic scan tool, perform the IPC (instrument panel cluster) self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to the IPC (instrument panel cluster) DTC (diagnostic trouble code) Chart in this section.

No	GO to AF3

AF3 CHECK THE GWM (GATEWAY MODULE A) DIAGNOSTIC TROUBLE CODES (DTCS)

- Using a diagnostic scan tool, check the GWM (gateway module A) Continuous Memory Diagnostic Trouble Codes (DTCs).

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: Controller Area Network (CAN) Module Communications Network(418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).

No	DIAGNOSE the adaptive cruise control system. REFER to: Cruise Control (419-03B Cruise Control - Vehicles With: Adaptive Cruise Control, Diagnosis and Testing).

- Ignition ON.
- Using a diagnostic scan tool, perform the IPC (instrument panel cluster) self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to DTC (diagnostic trouble code) Chart: IPC (instrument panel cluster) in this section.

No	GO to AG3

AG3 CHECK THE GWM (GATEWAY MODULE A) DIAGNOSTIC TROUBLE CODES (DTCS)

- Using a diagnostic scan tool, check the GWM (gateway module A) Continuous Memory Diagnostic Trouble Codes (DTCs).

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: Controller Area Network (CAN) Module Communications Network(418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).

No	DIAGNOSE the four-wheel drive system. REFER to: Four-Wheel Drive Systems - Vehicles With: 2-Speed Torque On Demand Transfer Case (307-07A Four-Wheel Drive Systems, Diagnosis and Testing). or REFER to: Four-Wheel Drive Systems - Vehicles With: Electronic Shift Transfer Case (307-07A Four-Wheel Drive Systems, Diagnosis and Testing).

PINPOINT TEST AH : THE HAZARD - STOP SAFELY NOW RTT (RECONFIGURABLE TELLTALE) INDICATOR IS NEVER OR ALWAYS ON (HEV (HYBRID ELECTRIC VEHICLE))

Normal Operation and Fault Conditions

See Hazard - Stop Safely Now (HEV (hybrid electric vehicle)). REFER to: Instrument Panel Cluster (IPC) - System Operation and Component Description(413-01 Instrumentation, Message Center and Warning Chimes, Description and Operation).

If the HEV battery warning indicator request or the HEV transmission warning indicator request message is missing for less than 5 seconds, the IPC (instrument panel cluster) defaults the hazard - stop safely now RTT (reconfigurable telltale) indicator to the last indication state (on or off), based upon the last message received.

AH3 PERFORM THE BECM (BATTERY ENERGY CONTROL MODULE) SELF-TEST

- Using a diagnostic scan tool, perform the BECM (battery energy control module) self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: High Voltage Battery, Mounting and Cables - Electric(414-03A High Voltage Battery, Mounting and Cables, Diagnosis and Testing).

No	GO to AH4

AH4 PERFORM THE SOBDMC (SECONDARY ON-BOARD DIAGNOSTIC CONTROL MODULE C) SELF-TEST

- Using a diagnostic scan tool, perform the SOBDMC (secondary on-board diagnostic control module C) self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to the Master DTC (diagnostic trouble code) Chart.

No	GO to AH5

AH5 CHECK THE GWM (GATEWAY MODULE A) DIAGNOSTIC TROUBLE CODES (DTCS)

- Using a diagnostic scan tool, check the GWM (gateway module A) Continuous Memory Diagnostic Trouble Codes (DTCs).

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: Controller Area Network (CAN) Module Communications Network(418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).

No	If the hazard - stop safely now RTT (reconfigurable telltale) indicator is never on, the system is operating correctly at this time. There are currently no vehicle concerns present that require the hazard - stop safely now RTT (reconfigurable telltale) indicator. If the hazard - stop safely now RTT (reconfigurable telltale) indiator is always on, DIAGNOSE a BECM (battery energy control module) concern or a SOBDMC (secondary on-board diagnostic control module C)

- Monitor the door ajar RTT (reconfigurable telltale) indicator.

Is the door ajar RTT (reconfigurable telltale) indicator off with the door closed, and on with the door open?

Yes	GO to AI2

No	GO to Pinpoint Test A

AI2 PERFORM THE IPC (INSTRUMENT PANEL CLUSTER) SELF-TEST

- Ignition ON.
- Using a diagnostic scan tool, perform the IPC (instrument panel cluster) self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to DTC (diagnostic trouble code) Chart: IPC (instrument panel cluster) in this section.

No	GO to AI3

AI3 CHECK THE GWM (GATEWAY MODULE A) DIAGNOSTIC TROUBLE CODES (DTCS)

- Using a diagnostic scan tool, check the GWM (gateway module A) Continuous Memory Diagnostic Trouble Codes (CMDTCs).

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: Controller Area Network (CAN) Module Communications Network(418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).

No	DIAGNOSE all ABS (anti-lock brake system) module Diagnostic Trouble Codes (DTCs). REFER to: Anti-Lock Brake System (ABS) and Stability Control (206-09 Anti-Lock Brake System (ABS) and Stability Control, Diagnosis and Testing).

- Using a diagnostic scan tool, perform the IPC (instrument panel cluster) self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to the IPC (instrument panel cluster) DTC (diagnostic trouble code) Chart in this section.

No	GO to AJ3

AJ3 PERFORM THE IPMA (IMAGE PROCESSING MODULE A) SELF-TEST

- Using a diagnostic scan tool, perform the IPMA (image processing module A) self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to the Master DTC (diagnostic trouble code) Chart.

No	GO to AJ4

AJ4 CHECK THE GWM (GATEWAY MODULE A) DIAGNOSTIC TROUBLE CODES (DTCS)

- Using a diagnostic scan tool, check the GWM (gateway module A) Continuous Memory Diagnostic Trouble Codes (DTCs).

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: Controller Area Network (CAN) Module Communications Network(418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).

No	DIAGNOSE the lane centering aid system. REFER to: Cruise Control (419-03B Cruise Control - Vehicles With: Adaptive Cruise Control, Diagnosis and Testing).

PINPOINT TEST AK : THE LANE KEEPING SYSTEM RTT (RECONFIGURABLE TELLTALE) INDICATOR IS NEVER OR ALWAYS ON

No	GO to AK3

AK3 PERFORM THE IPC (INSTRUMENT PANEL CLUSTER) SELF-TEST

- Using a diagnostic scan tool, perform the IPC (instrument panel cluster) self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to the IPC (instrument panel cluster) DTC (diagnostic trouble code) Chart in this section.

No	GO to AK4

AK4 CHECK THE GWM (GATEWAY MODULE A) DIAGNOSTIC TROUBLE CODES (DTCS)

- Using a diagnostic scan tool, check the GWM (gateway module A) Continuous Memory Diagnostic Trouble Codes (DTCs).

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: Controller Area Network (CAN) Module Communications Network(418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).

No	DIAGNOSE the lane keeping system. REFER to: Lane Keeping System (419-07 Lane Keeping System, Diagnosis and Testing).

PINPOINT TEST AL : THE LH (LEFT-HAND) - RH (RIGHT-HAND) TURN SIGNAL, FRONT FOG LAMP, REAR FOG LAMP (IF EQUIPPED) OR HIGH BEAM INDICATOR OR RTT (RECONFIGURABLE TELLTALE) INDICATOR IS NEVER OR ALWAYS ON

Normal Operation and Fault Conditions

See LH/RH Turn Signal, Front Fog Lamp, Rear Fog Lamp or High Beam. REFER to: Instrument Panel Cluster (IPC) - System Operation and Component Description(413-01 Instrumentation, Message Center and Warning Chimes, Description and Operation).

REFER to: Instrument Panel Cluster (IPC) - Overview(413-01 Instrumentation, Message Center and Warning Chimes, Description and Operation).

Is the vehicle equipped with a 4-inch display IPC (instrument panel cluster) ?

Yes	GO to AL4

No	GO to AL3

AL3 CHECK THE MESSAGE CENTER OPERATION

- Ignition ON.
- Close all doors and hood.
- Clear all message center warnings by pressing the OK button for each warning present.
- Monitor the door ajar RTT (reconfigurable telltale) warning indicator.
- Open the driver door.
- Clear the message center popup warning.
- Monitor the door ajar RTT (reconfigurable telltale) warning indicator.

Is the door ajar RTT (reconfigurable telltale) warning indicator off with the door closed, and on with the door open?

Yes	GO to AL4

No	GO to Pinpoint Test A

AL4 CHECK THE GWM (GATEWAY MODULE A) DIAGNOSTIC TROUBLE CODES (DTCS)

Yes	DIAGNOSE all BCM (body control module) Diagnostic Trouble Codes (DTCs). REFER to the Master DTC (diagnostic trouble code) Chart.

No	GO to AL7

AL7 CHECK FOR CORRECT IPC (INSTRUMENT PANEL CLUSTER) OPERATION

- Ignition OFF.
- Disconnect and inspect the IPC (instrument panel cluster) connector.
- Repair:
    - corrosion (install new connector or terminals – clean module pins)
    - damaged or bent pins – install new terminals/pins
    - pushed-out pins – install new pins as necessary
- Reconnect the IPC (instrument panel cluster) connector. Make sure it seats and latches 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 IPC (instrument panel cluster) . REFER to: Instrument Panel Cluster (IPC) (413-01 Instrumentation, Message Center and Warning Chimes, 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 AM : THE LIGHTS ON INDICATOR OR RTT (RECONFIGURABLE TELLTALE) INDICATOR IS NEVER OR ALWAYS ON

Normal Operation and Fault Conditions

See Lights On. REFER to: Instrument Panel Cluster (IPC) - System Operation and Component Description(413-01 Instrumentation, Message Center and Warning Chimes, Description and Operation).

AM3 CHECK THE MESSAGE CENTER OPERATION

- Ignition ON.
- Close all doors and hood.
- Clear all message center warnings by pressing the OK button for each warning present.
- Monitor the door ajar RTT (reconfigurable telltale) warning indicator.
- Open the driver door.
- Clear the message center popup warning.
- Monitor the door ajar RTT (reconfigurable telltale) warning indicator.

Is the door ajar RTT (reconfigurable telltale) warning indicator off with the door closed, and on with the door open?

Yes	GO to AM5

No	GO to Pinpoint Test A

AM4 PERFORM THE IPC (INSTRUMENT PANEL CLUSTER) INDICATOR LAMP CONTROL ACTIVE COMMAND

- Using a diagnostic scan tool, view the IPC (instrument panel cluster) Parameter Identifications (PIDs).
- Access the IPC (instrument panel cluster) and control the SIDELIGHT_LMP (Side Light Lamp) PID (parameter identification)
- Command the lights on indicator on and off while observing the indicator.

Does the lights on indicator illuminate when commanded on and turn off when commanded off?

Yes	GO to AM5

No	GO to AM7

AM5 PERFORM THE IPC (INSTRUMENT PANEL CLUSTER) SELF-TEST

- Using a diagnostic scan tool, perform the IPC (instrument panel cluster) self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to the IPC (instrument panel cluster) DTC (diagnostic trouble code) Chart.