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2002 FORD Focus RS OEM Service and Repair Workshop Manual

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Yes	<p>INSTALL a new DSM (driver front seat module) .</p> <p>REFER to: Driver Front Seat Module (DSM) (501-10A Front Seats, Removal and Installation).</p>
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No	<p>INSTALL a new DDM (driver door module) or PDM (passenger door module) .</p> <p>REFER to: Driver Door Module (DDM) (419-10 Multifunction Electronic Modules, Removal and Installation).</p> <p>REFER to: Passenger Door Module (PDM) (419-10 Multifunction Electronic Modules, Removal and Installation).</p>
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PINPOINT TEST X : U0232:00

Normal Operation and Fault Conditions

The DDM (driver door module) / PDM (passenger door module) communicates with the SODL (side obstacle detection control module LH) over the CAN (controller area network) . If the DDM (driver door module) / PDM (passenger door module) does not receive messages from the SODL (side obstacle detection control module LH) , the side obstacle detection feature can be inoperative for the left side.

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
DDM (driver door module) U0232:00	Lost Communication With Side Obstacle Detection Control Module 'A': No Sub Type Information	Sets when the DDM (driver door module) detects data messages are missing from the SODL (side obstacle detection control module LH) .
PDM (passenger door module) U0232:00	Lost Communication With Side Obstacle Detection Control Module 'A': No Sub Type Information	Sets when the PDM (passenger door module) detects data messages are missing from the SODL (side obstacle detection control module LH) .

Possible Sources

- Network communication concern
- DDM (driver door module)
- PDM (passenger door module)

X4 RECHECK THE DDM (DRIVER DOOR MODULE) DIAGNOSTIC TROUBLE CODES (DTCS)

NOTE

If new modules were installed prior to the DTC (diagnostic trouble code) being set, the module configuration may be incorrectly set during PMI (programmable module installation) or the PMI (programmable module installation) may not have been performed.

- Using a diagnostic scan tool, clear the Diagnostic Trouble Codes (DTCs) and repeat the DDM (driver door module) self-test.

Is DTC (diagnostic trouble code) U0232:00 still present?

Yes	GO to X5
No	The system is operating correctly at this time. The DTC (diagnostic trouble code) may have been set due to high network traffic or an intermittent fault condition.

X5 CHECK FOR DTC (DIAGNOSTIC TROUBLE CODE) U0232 SET IN OTHER MODULES

U0233:00	'B': No Sub Type Information	SODR (side obstacle detection control module RH) .
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Possible Sources

- Network communication concern
- DDM (driver door module)
- PDM (passenger door module)
- SODR (side obstacle detection control module RH)

Y1 VERIFY THE CUSTOMER CONCERN

- Ignition ON.
- Verify there is an observable symptom present.

Is an observable symptom present?

Yes	GO to Y2
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No	The system is operating normally at this time. The DTC (diagnostic trouble code) may have been set due to high network traffic or an intermittent fault condition.
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Y2 CHECK THE COMMUNICATION NETWORK

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

Does the SODR (side obstacle detection control module RH) pass the network test?

Yes	GO to Y3
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No	REFER to: Controller Area Network (CAN) Module Communications Network (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
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Y3 CHECK FOR SODR (SIDE OBSTACLE DETECTION CONTROL MODULE RH) DIAGNOSTIC TROUBLE CODES (DTCS)

- Using a diagnostic scan tool, carry out the SODR (side obstacle detection control module RH) self-test.

Are any voltage related Diagnostic Trouble Codes (DTCs) present?

No	INSTALL a new DDM (driver door module) / PDM (passenger door module) . REFER to: Driver Door Module (DDM) (419-10 Multifunction Electronic Modules, Removal and Installation). REFER to: Passenger Door Module (PDM) (419-10 Multifunction Electronic Modules, Removal and Installation).
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PINPOINT TEST Z : P1594 OR P1595

Normal Operation and Fault Conditions

When the BCM (body control module) receives a request to remote start the vehicle, it first checks to make sure conditions exist to allow it to start (for example, the hood and doors closed, vehicle in PARK, no powertrain concerns). If the required conditions are correct, the BCM (body control module) starts the vehicle and allows it to run for a predetermined amount of time, determined by the setting selected from the message center.

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
PCM (powertrain control module) P1594:00	Forced Engine Shutdown - Remote Start System Fault, No Unattended Vehicle Timeout: No Sub Type Information	Sets when the PCM (powertrain control module) detects the remote start has been active for more than 30 minutes continuously.
PCM (powertrain control module) P1595:00	Forced Engine Shutdown - Remote Start System Fault, Transmission Range Not In Park Position: No Sub Type Information	Sets when the PCM (powertrain control module) detects the remote start is active with the transmission not in PARK.

Possible Sources

- Network communication concern
- Powertrain concern
- BCM (body control module)

Z1 CHECK FOR OTHER PCM (POWERTRAIN CONTROL MODULE) DIAGNOSTIC TROUBLE CODES (DTCS)

- Review the results from the PCM (powertrain control module) self-test.

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.
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PINPOINT TEST AA : U0164:00

Normal Operation and Fault Conditions

The DDM (driver door module) / PDM (passenger door module) communicates with the HVAC (heating, ventilation and air conditioning) module over the CAN (controller area network) . If the DDM (driver door module) / PDM (passenger door module) does not receive messages from the HVAC (heating, ventilation and air conditioning) module, features such as the mirror defrost can be inoperative.

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
DDM (driver door module) U0164:00	Lost Communication With HVAC Control Module 'A': No Sub Type Information	Sets when the DDM (driver door module) detects data messages are missing from the HVAC (heating, ventilation and air conditioning) module.
PDM (passenger door module) U0164:00	Lost Communication With HVAC Control Module 'A': No Sub Type Information	Sets when the PDM (passenger door module) detects data messages are missing from the HVAC (heating, ventilation and air conditioning) module.

Possible Sources

- Network communication concern
- DDM (driver door module)
- PDM (passenger door module)
- HVAC (heating, ventilation and air conditioning) module

AA1 VERIFY THE CUSTOMER CONCERN

- Ignition ON.
- Verify there is an observable symptom present.

Is an observable symptom present?

If new modules were installed prior to the DTC (diagnostic trouble code) being set, the module configuration may be incorrectly set during PMI (programmable module installation) or the PMI (programmable module installation) may not have been performed.

- Using a diagnostic scan tool, clear the Diagnostic Trouble Codes (DTCs) and repeat the DDM (driver door module) / PDM (passenger door module) self-test.

Is DTC (diagnostic trouble code) U0164:00 still present?

Yes	GO to AA5
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No	The system is operating correctly at this time. The DTC (diagnostic trouble code) may have been set due to high network traffic or an intermittent fault condition.
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AA5 CHECK FOR DTC (DIAGNOSTIC TROUBLE CODE) U0164 SET IN OTHER MODULES

- Using a diagnostic scan tool, clear all Diagnostic Trouble Codes (DTCs).
- Ignition OFF.
- Ignition ON.
- Wait 30 seconds.
- Using a diagnostic scan tool, retrieve the Continuous Memory Diagnostic Trouble Codes (CMDTCs) from all modules.

Is DTC (diagnostic trouble code) U0164 set in other modules?

Yes	INSTALL a new HVAC (heating, ventilation and air conditioning) module. REFER to: Heating, Ventilation and Air Conditioning (HVAC) Control Module (412-00 Climate Control System - General Information, Removal and Installation).
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No	INSTALL a new DDM (driver door module) or PDM (passenger door module) . REFER to: Driver Door Module (DDM) (419-10 Multifunction Electronic Modules, Removal and Installation). REFER to: Passenger Door Module (PDM) (419-10 Multifunction Electronic Modules, Removal and Installation).
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PINPOINT TEST AB : U0294:00

Does the PCM (powertrain control module) pass the network test?

Yes	GO to AB3
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No	REFER to: Controller Area Network (CAN) Module Communications Network (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
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AB3 CHECK FOR BCM (BODY CONTROL MODULE) DIAGNOSTIC TROUBLE CODES (DTCS)

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

Are any voltage related Diagnostic Trouble Codes (DTCs) present?

Yes	Refer to the appropriate PCM (powertrain control module) section in 303-14.
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No	GO to AB4
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AB4 RECHECK THE DDM (DRIVER DOOR MODULE) OR PDM (PASSENGER DOOR MODULE) DIAGNOSTIC TROUBLE CODES (DTCS)

NOTE

If new modules were installed prior to the DTC (diagnostic trouble code) being set, the module configuration may be incorrectly set during PMI (programmable module installation) or the PMI (programmable module installation) may not have been performed.

- Using a diagnostic scan tool, clear the Diagnostic Trouble Codes (DTCs) and repeat the DDM (driver door module) / PDM (passenger door module) self-test.

Is DTC (diagnostic trouble code) U0294:00 still present?

Yes	GO to AB5
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No	The system is operating correctly at this time. The DTC (diagnostic trouble code) may have been set due to high network traffic or an intermittent fault condition.
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- Network communication concern
- DDM (driver door module)
- PDM (passenger door module)

AC1 CHECK DDM (DRIVER DOOR MODULE) / PDM (PASSENGER DOOR MODULE) DIAGNOSTIC TROUBLE CODES (DTC'S)

- Using a diagnostic scan tool, carry out the DDM (driver door module) / PDM (passenger door module) PMI (programmable module installation) .

Are there any other Diagnostic Trouble Codes (DTC's) Present?

Yes	REPAIR all non-network Diagnostic Trouble Codes (DTCs) from the DDM (driver door module) / PDM (passenger door module) .
No	INSTALL a new DDM (driver door module) / PDM (passenger door module) . REFER to: Driver Door Module (DDM) (419-10 Multifunction Electronic Modules, Removal and Installation). REFER to: Passenger Door Module (PDM) (419-10 Multifunction Electronic Modules, Removal and Installation).

PINPOINT TEST AD : THE TAILGATE DOES NOT LATCH

Refer to Wiring Diagrams Cell 117for schematic and connector information.

Refer to Wiring Diagrams Cell 96for schematic and connector information.

Normal Operation and Fault Conditions REFER to: [Handles, Locks, Latches and Entry Systems - System Operation and Component Description](#)

(501-14 Handles, Locks, Latches and Entry Systems, Description and Operation).

Possible Sources

- tailgate latch

Visual Inspection and Pre-checks

- Inspect the tailgate latch for damage.

AD1 DISCONNECT THE TAILGATE LATCH. CHECK THE OPERATION OF THE LATCH.

- Using a screwdriver manipulate the latch.

Does the latch fully latch?

Low vehicle battery state of charge will disable the passive entry feature from all the doors except the driver's door.

AE1 RECHECK FOR DTC (DIAGNOSTIC TROUBLE CODE) U3003:16

- Ignition ON.
- Using a diagnostic scan tool, clear the Diagnostic Trouble Codes (DTCs) for the module in question.
- Wait at least 15 seconds.
- Using a diagnostic scan tool, repeat the self-test for the module in question.

Is DTC (diagnostic trouble code) U3003:16 still present?

Yes	GO to AE2
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No	The system is operating correctly at this time. The DTC (diagnostic trouble code) may have been set due to a previous low battery voltage condition.
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AE2 CHECK FOR CHARGING SYSTEM DIAGNOSTIC TROUBLE CODES (DTCs) IN THE PCM (POWERTRAIN CONTROL MODULE)

- Using a diagnostic scan tool, perform the PCM (powertrain control module) self-test.

Are any voltage-related Diagnostic Trouble Codes (DTCs) set in the PCM (powertrain control module) ?

Yes	DIAGNOSE the charging system concern. REFER to: Charging System - 2.7L EcoBoost (238kW/324PS)/3.5L EcoBoost (BM) (414-00 Charging System - General Information, Diagnosis and Testing). REFER to: Charging System - 3.3L Duratec-V6/5.0L 32V Ti-VCT (414-00 Charging System - General Information, Diagnosis and Testing). REFER to: Charging System (414-00 Charging System - General Information, Diagnosis and Testing).
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No	GO to AE3
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AE3 CHECK THE BATTERY CONDITION AND STATE OF CHARGE