

Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2008 FORD Mustang Convertible OEM Service and Repair Workshop Manual

[Go to manual page](#)

Are the resistances greater than 10,000 ohms?

Yes	GO to A7
------------	--------------------------

No	REPAIR the circuit.
-----------	---------------------

A7 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Ignition OFF.
- Disconnect and inspect all the BCM (body control module) connectors.
- 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 all BCM (body control module) connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	<p>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 no service articles address this concern, Install a new BCM (body control module) .</p> <p>REFER to: Body Control Module (BCM) (419-10 Multifunction Electronic Modules, Removal and Installation).</p>
------------	---

No	<p>The system is operating correctly at this time. The concern may have been caused by a loose or corroded connector. ADDRESS the root cause of any connector or pin issues.</p>
-----------	--

PINPOINT TEST B : THE WACM (WIRELESS ACCESSORY CHARGING MODULE) IS INOPERATIVE

Refer to Wiring Diagrams Cell 12for schematic and connector information.

Normal Operation and Fault Conditions REFER to: [Wireless Accessory Charging Module \(WACM\)](#)
(414-06 Accessory Charging, Removal and Installation).

Possible Sources

- Using a diagnostic scan tool, carry out the WACM (wireless accessory charging module) self-test.

Are any diagnostic trouble codes (DTCs) present?

Yes	REFER to DTC (diagnostic trouble code) Chart: WACM (wireless accessory charging module) in this section.
------------	--

No	GO to B2
-----------	--------------------------

B2 CHECK THE COMMUNICATION NETWORK

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


Does the WACM (wireless accessory charging module) pass the network test?

Yes	GO to B3
------------	--------------------------

No	DIAGNOSE the WACM (wireless accessory charging module) does not communicate with the diagnostic scan tool.
-----------	--

B3 CHECK THE WACM (WIRELESS ACCESSORY CHARGING MODULE) STATUS CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect BCM (body control module) C2280B .
- Disconnect Wireless Accessory Charging Module C390 .
- Ignition ON.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C390-3		Ground

Is there any voltage present?

No	REPAIR the circuit.
-----------	---------------------

B6 CHECK THE WACM (WIRELESS ACCESSORY CHARGING MODULE) VBAT CIRCUIT AND WACM (WIRELESS ACCESSORY CHARGING MODULE) STATUS CIRCUIT FOR A SHORT TOGETHER

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C390-1	Ω	C390-3

Are the resistances greater than 10,000 ohms?

Yes	GO to B7
------------	--------------------------

No	REPAIR the circuit.
-----------	---------------------

B7 CHECK FOR CORRECT WACM (WIRELESS ACCESSORY CHARGING MODULE) OPERATION

- Ignition OFF.
- Disconnect and inspect all the WACM (wireless accessory charging module) connectors.
- 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 all WACM (wireless accessory charging module) connectors. 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 service articles: TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) or
------------	--

- Charging system concern
- Battery
- WACM (wireless accessory charging module)

Visual Inspection and Pre-checks

- Make sure the vehicle battery terminals and cables are free of any corrosion and other contaminants.
- Make sure the vehicle battery terminals are tightened to their correct torque specifications.
- Make sure BCM (body control module) fuse 3 (7.5A) is OK.
- Inspect for loose or corroded WACM (wireless accessory charging module) connections.

NOTE

DTC (diagnostic trouble code) U3003:17 may be stored in the module memory due to past battery charging or vehicle jump starting events. Use the correct probe adapter(s) when making measurements. Failure to use the correct probe adapter(s) may cause damage to the connector.

C1 CARRY OUT THE WACM (WIRELESS ACCESSORY CHARGING MODULE) SELF-TEST

NOTE

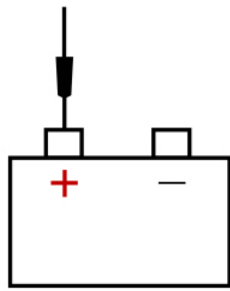
Every effort should be made to not trigger a key search by opening a door, stepping on the brake pedal. The triggering of a key search temporarily disables the WACM by design to avoid interference between the BCM (body control module) and Key fob. This can cause confusion and the unnecessary replacement of perfectly good modules. While no key searches are being conducted while running the test results in no DTCs. This needs to be understood for the true DTCs setting and symptoms to be diagnosed.

- Start the engine.
- Using a diagnostic scan tool, perform the WACM (wireless accessory charging module) self-test.
- Using a diagnostic scan tool, clear the WACM (wireless accessory charging module) Diagnostic Trouble Codes (DTCs).
- Ignition OFF.
- Wait 10 seconds.
- Start the engine.
- Using a diagnostic scan tool, perform the WACM (wireless accessory charging module) self-test.

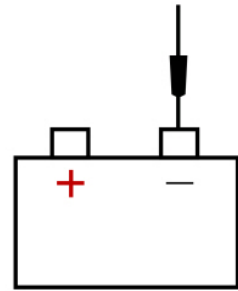
Is DTC (diagnostic trouble code) U3003:16 or U3003:17 still present?

Yes	GO to C2
------------	--------------------------

No	The system is operating normally at this time. The DTC (diagnostic trouble code) may have been
-----------	--



V



Does the battery voltage rise above 15.5 volts or higher?

Yes	For DTC (diagnostic trouble code) U3003:17, DIAGNOSE the charging system. REFER to: Battery (414-01 Battery, Mounting and Cables, Diagnosis and Testing).
------------	---

No	For DTC (diagnostic trouble code) U3003:16, GO to C4
-----------	--

C4 CHECK THE WACM (WIRELESS ACCESSORY CHARGING MODULE) VOLTAGE SUPPLY CIRCUIT FOR HIGH RESISTANCE

- Turn off all interior/exterior lights and accessories.
- Ignition OFF.
- Disconnect WACM (wireless accessory charging module) C390 .
- Ignition ON.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C390-1	V	Ground

Is the voltage greater than 11 volts?

Yes	GO to C5
------------	--------------------------

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 WACM (wireless accessory charging module) .

REFER to: [Wireless Accessory Charging Module \(WACM\)](#) (414-06 Accessory Charging, Removal and Installation).

No

The system is operating correctly at this time. The concern may have been due to incorrect parts replacement procedures or incorrect module configuration.

PINPOINT TEST D : U0140:00

Refer to Wiring Diagrams Cell 12 for schematic and connector information.

Normal Operation and Fault Conditions

- REFER to: [Wireless Accessory Charging Module \(WACM\) - System Operation and Component Description](#)(414-06 Accessory Charging, Description and Operation).
- Modules send messages on the vehicle communication networks. If data messages from the BCM (body control module) are missing for 5 seconds or longer, the WACM (wireless accessory charging module) sets a DTC (diagnostic trouble code) .

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
WACM (wireless accessory charging module) U0140:00	Lost Communication With Body Control Module: No Sub Type Information	Sets in continuous memory in the WACM (wireless accessory charging module) if data messages received from the BCM (body control module) are missing for 5 seconds or longer.

Possible Sources

- Wiring, terminals or connectors
- WACM (wireless accessory charging module)
- BCM (body control module)

NOTICE

No	DIAGNOSE the WACM (wireless accessory charging module) does not communicate with the diagnostic scan tool. REFER to: Wireless Accessory Charging Module (WACM) (414-06 Accessory Charging, Diagnosis and Testing).
-----------	---

D3 PERFORM THE WACM (WIRELESS ACCESSORY CHARGING MODULE) SELF-TEST

- Using a diagnostic scan tool, perform the WACM (wireless accessory charging module) self-test.

Are any non-network Diagnostic Trouble Codes (DTCs) present?

Yes	REFER to DTC (diagnostic trouble code) Chart: WACM (wireless accessory charging module) in this section.
------------	--

No	GO to D4
-----------	--------------------------

D4 CHECK THE GWM (GATEWAY MODULE A) DTCS (DIAGNOSTIC TROUBLE CODES)

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

Are any DTCS (Diagnostic Trouble Codes) recorded?

Yes	<input type="checkbox"/>
------------	--------------------------

No	GO to D5
-----------	--------------------------

D5 PERFORM THE BCM (BODY CONTROL MODULE) SELF-TEST

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

Are any non-network DTCS (Diagnostic Trouble Codes) present?

Yes	REFER to the Master DTC (diagnostic trouble code) Chart: in General Information Group 100.
------------	--

- Operate the system and determine if the observable symptom is still present.

Is the observable symptom still present?

Yes	GO to D8
------------	--------------------------

No	The system is operating correctly at this time. The concern may have been due to incorrect parts replacement procedures or incorrect module configuration.
-----------	--

D8 CHECK FOR CORRECT WACM (WIRELESS ACCESSORY CHARGING MODULE) OPERATION

- Ignition OFF.
- Disconnect and inspect all the WACM (wireless accessory charging module) connectors.
- 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 all WACM (wireless accessory charging module) connectors. 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 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 WACM (wireless accessory charging module) . REFER to: Wireless Accessory Charging Module (WACM) (414-06 Accessory Charging, Removal and Installation).
------------	---

No	The system is operating correctly at this time. The concern may have been caused by a loose or corroded connector. ADDRESS the root cause of any connector or pin issues.
-----------	---

E2 RECHECK FOR DTC (DIAGNOSTIC TROUBLE CODE) U0184:00

- Ignition ON.
- Using a diagnostic scan tool, clear all Continuous Memory Diagnostic Trouble Codes (CMDTCs).
- Ignition OFF.
- Ignition ON.
- Wait at least 10 seconds.
- Using a diagnostic scan tool, retrieve all Continuous Memory Diagnostic Trouble Codes (CMDTCs).

Is DTC (diagnostic trouble code) U0184:00 set in the WACM (wireless accessory charging module) ?

Yes	GO to E3
------------	--------------------------

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.
-----------	---

E3 PERFORM THE ACM (AUDIO FRONT CONTROL MODULE) SELF-TEST

- Using a diagnostic scan tool, perform the ACM (audio front control module) self-test.

Are any non-network DTCS (Diagnostic Trouble Codes) present?

Yes	REFER to the Master DTC (diagnostic trouble code) Chart: General Information in Group 100.
------------	--

No	GO to E4
-----------	--------------------------

E4 CHECK FOR BATTERY VOLTAGE OUT-OF-RANGE DTCS (DIAGNOSTIC TROUBLE CODES)

- Using a diagnostic scan tool, perform the self-test for the following modules:
 - ACM (audio front control module)
 - WACM (wireless accessory charging module)

Are any low or high voltage Diagnostic Trouble Codes (DTCs) recorded in the ACM (audio front control module) , or WACM (wireless accessory charging module) ?

Yes	For DTCs (Diagnostic Trouble Codes)U3003:16 and U3003:17, GO to Pinpoint Test C
------------	---