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2007 FORD Tourneo Connect OEM Service and Repair Workshop Manual

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No	REPAIR the circuit.
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H9 CHECK THE WASHER PUMP VOLTAGE SUPPLY CIRCUIT FOR A SHORT TO GROUND

- Ignition OFF.
- Disconnect Windshield Wiper Motor C125 .
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C125-7	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to H10
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No	REPAIR the circuit.
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H10 CHECK THE WASHER PUMP VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

PINPOINT TEST I : THE WINDSHIELD WASHER IS ALWAYS ON

<p>Refer to Wiring Diagrams Cell 81 for schematic and connector information.</p> <p>Normal Operation and Fault Conditions REFER to: Wipers and Washers - System Operation and Component Description (501-16 Wipers and Washers, Description and Operation).</p> <p>Possible Sources</p> <ul style="list-style-type: none">• Wiper/washer switch• Windshield wiper motor• SCCM (steering column control module) <p>Visual Inspection and Pre-checks</p> <ul style="list-style-type: none">• Inspect the wiper/washer switch for damage	
<p>I1 CHECK THE WIPER/WASHER SWITCH INPUT USING THE WASHER SWITCH (FRONT) (F_WASH_SW) PID (PARAMETER IDENTIFICATION)</p>	
<ul style="list-style-type: none">• Ignition ON.• Using a diagnostic scan tool, view the SCCM (steering column control module) Parameter Identifications (PIDs).• Access the SCCM (steering column control module) and monitor the F_WASH_SW (Washer Switch (Front)) PID (parameter identification)	
<p>Does the PID (parameter identification) indicate the switch is activated?</p>	
<p>Yes</p>	<p>INSTALL a new wiper/washer switch</p> <p>REFER to: Steering Column Multifunction Switch LH (211-05 Steering Wheel and Column Electrical Components, Removal and Installation).</p> <p>TEST the system for normal operation. If the concern is still present, INSTALL a new SCCM (steering column control module) .</p> <p>REFER to: Steering Column Control Module (SCCM) (211-05 Steering Wheel and Column Electrical Components, Removal and Installation).</p> <p>REFER to: Steering Column Control Module (SCCM) - Vehicles With: Adaptive Steering (211-05 Steering Wheel and Column Electrical Components, Removal and Installation).</p>
<p>No</p>	<p>Verify that the issue is not caused by a short in the harness between the wiper and the Washer pump. If that section of the harness is not shorted then, INSTALL a new windshield wiper motor.</p> <p>REFER to: Windshield Wiper Motor (501-16 Wipers and Washers, Removal and Installation).</p>

Normal Operation and Fault Conditions

REFER to: [Wipers and Washers - System Operation and Component Description](#)(501-16 Wipers and Washers, Description and Operation).

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
SCCM (steering column control module) B10AD:49	Rain Sensor: Internal Electronic Failure	This DTC (diagnostic trouble code) sets when the SCCM (steering column control module) detects an internal failure in the rain sensor or when the rain Sensor is not installed correctly.

Possible Sources

- Rain Sensor
- SCCM (steering column control module)

K1 CHECK FOR DTC B10AD:49

- Ignition ON.
- Verify the Rain Sensor is correctly installed.
- Using a diagnostic scan tool, carry out the SCCM (steering column control module) self test.
- CLEAR all DTCs and carry out the SCCM (steering column control module) self test again.

Does DTC B10AD:49 return?

Yes	<p>INSTALL a new rain sensor.</p> <p>REFER to: Rain Sensor (501-16 Wipers and Washers, Removal and Installation).</p> <p>TEST the system for normal operation. If the concern is still present, 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 SCCM (steering column control module) .</p> <p>REFER to: Steering Column Control Module (SCCM) (211-05 Steering Wheel and Column Electrical Components, Removal and Installation).</p> <p>REFER to: Steering Column Control Module (SCCM) - Vehicles With: Adaptive Steering (211-05 Steering Wheel and Column Electrical Components, Removal and Installation).</p>
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PINPOINT TEST M : DTC (DIAGNOSTIC TROUBLE CODE) B10AD:55 OR B1131:55

Normal Operation and Fault Conditions

REFER to: [Wipers and Washers - System Operation and Component Description](#)(501-16 Wipers and Washers, Description and Operation).

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
SCCM (steering column control module) B10AD:55	Rain Sensor: Not Configured	This DTC (diagnostic trouble code) sets when the SCCM (steering column control module) has not been programmed or incorrectly programmed.
SCCM (steering column control module) B1131:55	Wiper motor module: Not Configured	This DTC (diagnostic trouble code) sets when the SCCM (steering column control module) has not been programmed or incorrectly programmed.

Possible Sources

- SCCM (steering column control module)

M1 CHECK FOR DTC (DIAGNOSTIC TROUBLE CODE) B10AD:55 OR B1131:55

- Ignition ON.
- Using a diagnostic scan tool, carry out the SCCM (steering column control module) self test.

Is DTC (diagnostic trouble code) B10AD:55 or B1131:55 present?

Yes	<p>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 SCCM (steering column control module) AS BUILT DATA.</p> <p>REFER to: Module Programming (418-01A Module Configuration, General Procedures).</p>
No	<p>The system is operating correctly at this time. The concern may have been caused by an intermittent condition. DIAGNOSE the observable symptom.</p>

. CLEAR the DTC (diagnostic trouble code) and RETEST. If the DTC (diagnostic trouble code) returns, 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 SCCM (steering column control module) .

REFER to: [Steering Column Control Module \(SCCM\)](#)

(211-05 Steering Wheel and Column Electrical Components, Removal and Installation).

REFER to: [Steering Column Control Module \(SCCM\) - Vehicles With: Adaptive Steering](#)

(211-05 Steering Wheel and Column Electrical Components, 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 O : DTC B1131:9A

Normal Operation and Fault Conditions

REFER to: [Wipers and Washers - System Operation and Component Description](#)(501-16 Wipers and Washers, Description and Operation).

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
SCCM (steering column control module) B1131:9A	Wiper motor module: Component or System Operating Conditions	Sets when the SCCM (steering column control module) detects an operational fault within the wiper motor module.

Possible Sources

- Windshield wiper motor

O1 CHECK FOR DTC B1131:9A

- Ignition ON.
- Using a diagnostic scan tool, carry out the SCCM (steering column control module) self test.

Is DTC B1131:9A present?

- Wipe the suspect glass surface with a clean, lint-free cloth and glass cleaner (Motorcraft ZC-23 or equivalent)
- Ignition ON.
- Retest the wiper system.

Is the wiper performance concern still present (poor cleaning, streaking, chatter)?

Yes	INSTALL new wiper blade(s) for the blade(s) in question.
No	The system is operating correctly. The concern was caused by dirt, ice, debris, or other foreign material on the wiper blade(s) or glass surface.

PINPOINT TEST Q : WINDSHIELD WIPERS OVER-TRAVELS/HITTING A-PILLAR

Normal Operation and Fault Conditions

REFER to: [Wipers and Washers - System Operation and Component Description](#)(501-16 Wipers and Washers, Description and Operation).

Possible Sources

- Windshield wiper arm

Q1 CHECK THE WIPER PATH

- Ignition ON.
- Operate the system and confirm the concern.

Are the wipers hitting A pillar/ over-travels?

Yes	Adjust the pivot arms correctly on the windshield.
No	The system is operating correctly at this time.

PINPOINT TEST R : WINDSHIELD WIPER MOTOR MAKES AN ABNORMAL NOISE

Normal Operation and Fault Conditions

REFER to: [Wipers and Washers - System Operation and Component Description](#)(501-16 Wipers and Washers, Description and Operation).



Washer Hose Coupling

<i>501-16 Wipers and Washers</i>	<i>2022 F-150</i>
<i>General Procedures</i>	<i>Procedure revision date: 06/17/2020</i>

Washer Hose Coupling

Disconnect

C-Lock Coupler

1. **NOTICE**

To prevent damage to the coupler, do not use hand tools to disconnect /connect the C-lock.

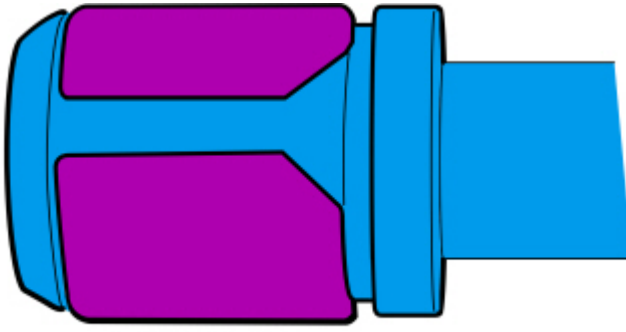
NOTE

Do not remove the lock ring from the C-lock coupler.

NOTE

Hold the female side of the coupler at the hose connection to prevent the coupler from rotating internally.

Gently twist the lock ring until it has rotated approximately 90 degrees.



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4. To connect, verify the C-lock coupler lock ring is in the locked position.

5. **NOTE**

The lock ring flexes open slightly to allow the male fitting to enter the C-lock coupler.

NOTE

The lock ring can be heard as it snaps into the lock position.

Insert the male fitting into the C-lock coupler.

6. Gently pull on the C-lock coupler to verify it is seated correctly.

Pinch Type Coupler

7. **NOTICE**

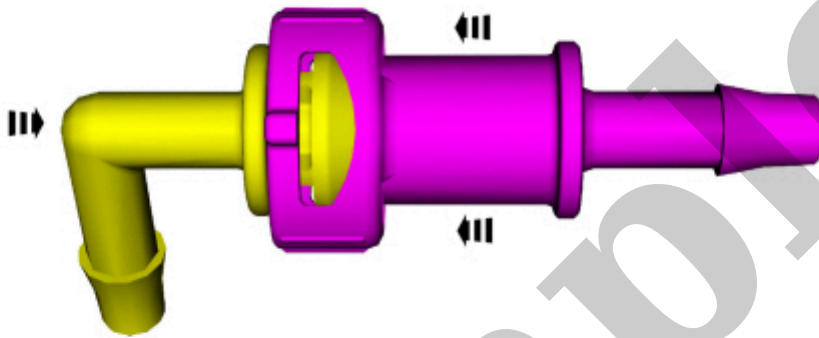
To prevent damage to the coupler, do not use hand tools to disconnect /connect pinch type coupler.

Squeeze the coupler at the two raised points and gently pull the connection apart.

9. **NOTE**

An audible click should be heard once in the locked position.

To connect, insert the male fitting into the pinch type coupler until it is in the locked position.



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10. Gently pull on the pinch type coupler to verify it is seated correctly.

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