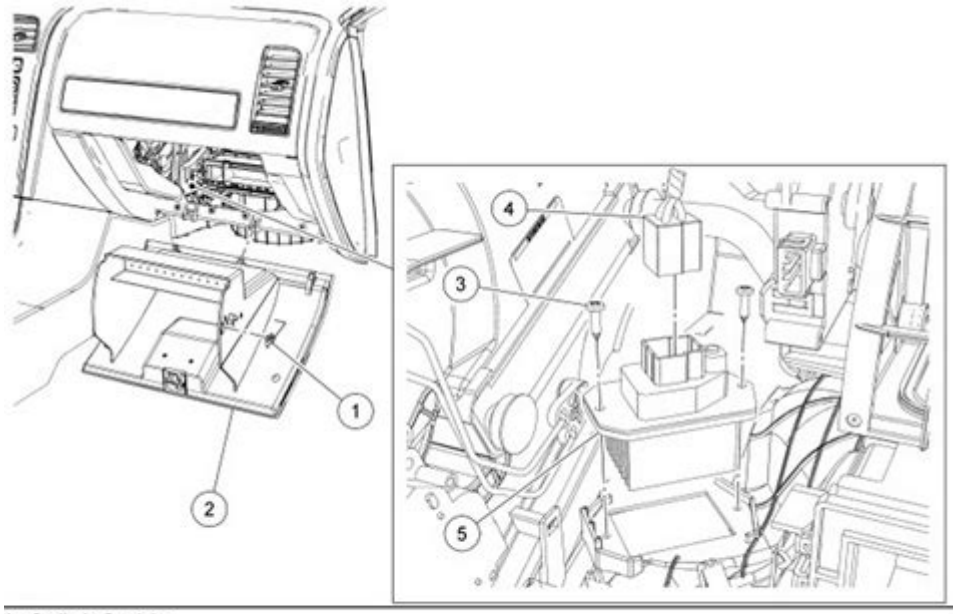
2012 Ford Fusion Blower Motor Resistor Wiring Diagram



Item	Part Number	Description
1	7806200	Glove compartment damper
2	7806024	Glove compartment
3	—	Blower motor speed control screw (2 required)
4	19C683	Blower motor speed control electrical connector
5	19E624	Blower motor speed control (Electronic Automatic Temperature Control (EATC) vehicles)
5	19A706	Blower motor resistor (Electronic Manual Temperature Control (EMTC) vehicles)

2012 Ford Fusion blower motor resistor wiring diagram is a crucial tool for understanding the electrical system that controls the heating and air conditioning in your vehicle. The blower motor resistor is an essential component that regulates the speed of the blower motor, allowing you to adjust the airflow within the cabin. In this article, we will explore the wiring diagram for the blower motor resistor in the 2012 Ford Fusion, its function, and how to troubleshoot common issues related to it.

Understanding the Blower Motor Resistor

The blower motor resistor is responsible for controlling the speed of the blower motor based on the selected setting on the climate control system. It does this by providing different resistances, which in turn adjusts the voltage sent to the blower motor.

When the blower motor is set to operate at different speeds, the resistor effectively alters the amount of voltage that flows to the motor. A higher resistance results in a lower speed, while a lower resistance allows for a higher speed. The resistor is typically located near the blower motor itself, making it accessible for repairs or replacement.

Location of the Blower Motor Resistor in the 2012 Ford Fusion

In the 2012 Ford Fusion, the blower motor resistor is generally located in the passenger side footwell

area, attached to the HVAC housing. To access it, follow these steps:

1. Turn off the vehicle and ensure that it is in a safe position.
2. Remove the passenger side kick panel by unscrewing any fasteners holding it in place.
3. Locate the blower motor resistor, which is usually mounted directly to the HVAC assembly.

Wiring Diagram Overview

A wiring diagram provides a visual representation of the electrical connections in the blower motor resistor circuit. For the 2012 Ford Fusion, the wiring diagram typically includes the following components:

- Blower Motor Resistor: This component controls the speed of the blower motor.
- Blower Motor: The motor that drives the airflow inside the cabin.
- Climate Control Module: The interface used by the driver to select the desired temperature and airflow settings.
- Fuses: Protects the circuit from overloads.

Wiring Connections

Understanding the wiring connections is essential for troubleshooting and repairs. Below is a simplified list of the wiring connections typically found in the 2012 Ford Fusion blower motor resistor circuit:

1. Power Supply Wire: This wire connects the resistor to the battery, providing the necessary voltage to operate.
2. Blower Motor Control Wires: These wires connect the resistor to the blower motor, allowing it to adjust speeds based on the resistor settings.
3. Ground Wire: This wire ensures proper grounding, which is crucial for the circuit's functionality.

The wiring diagram will show these connections clearly, allowing you to trace the circuit and identify any potential issues.

Common Issues and Troubleshooting

Several common issues can arise with the blower motor resistor in the 2012 Ford Fusion. Understanding these problems can help you diagnose and fix them effectively.

Symptoms of a Faulty Blower Motor Resistor

If you suspect that your blower motor resistor is malfunctioning, watch for the following symptoms:

- Blower Motor Only Works on One Speed: If your blower motor only operates on high speed or does

not work at all, the resistor may be faulty.
- Intermittent Blower Operation: If the blower motor works sporadically, it could indicate a bad connection or a failing resistor.
- No Airflow: In some cases, the blower motor may stop working entirely.

Troubleshooting Steps

To troubleshoot the blower motor resistor, follow these steps:

1. Visual Inspection: Check the wiring connections for any signs of damage, corrosion, or loose connections.
2. Test the Resistor: Use a multimeter to measure the resistance. Compare your readings to the specifications outlined in the service manual.
3. Check the Blower Motor: Ensure that the blower motor itself is functioning correctly. A faulty motor can mimic resistor issues.
4. Inspect Fuses: Check the relevant fuses for continuity. Replace any blown fuses to restore circuit functionality.

If these steps do not resolve the issue, you may need to replace the blower motor resistor.

Replacing the Blower Motor Resistor

If troubleshooting indicates that the blower motor resistor is faulty, replacing it is a straightforward process. Here’s how to do it:

Tools and Materials Needed

- New blower motor resistor
- Screwdriver set
- Socket set
- Multimeter (for testing)
- Safety glasses and gloves

Replacement Steps

1. Disconnect the Battery: To ensure safety, disconnect the negative terminal of the battery before beginning work.
2. Remove the Old Resistor:
- Locate the blower motor resistor.
- Remove any screws or clips holding it in place.
- Disconnect the wiring harness from the old resistor.
3. Install the New Resistor:
- Connect the wiring harness to the new blower motor resistor.

- Secure it in place with screws or clips.
4. Reassemble the Footwell Area: Replace the kick panel and any other components you removed.
5. Reconnect the Battery: Reconnect the negative terminal of the battery.
6. Test the System: Start the vehicle and test the blower motor at various speeds to ensure proper operation.

Conclusion

The **2012 Ford Fusion blower motor resistor wiring diagram** is an invaluable resource for understanding and troubleshooting the electrical system responsible for climate control in your vehicle. By familiarizing yourself with the wiring connections, common issues, and replacement procedures, you can maintain a comfortable driving environment. Regular checks and timely repairs will ensure that your heating and air conditioning system continues to function efficiently for years to come. Whether you're a seasoned mechanic or a DIY enthusiast, having the right knowledge and tools will empower you to tackle any challenges related to the blower motor resistor.

Frequently Asked Questions

What is the purpose of the blower motor resistor in a 2012 Ford Fusion?

The blower motor resistor controls the speed of the blower motor, allowing for different fan speeds in the vehicle's heating and air conditioning system.

Where can I find the wiring diagram for the blower motor resistor in a 2012 Ford Fusion?

The wiring diagram for the blower motor resistor can typically be found in the vehicle's service manual or online resources such as automotive forums and repair websites.

What symptoms indicate a faulty blower motor resistor in a 2012 Ford Fusion?

Symptoms of a faulty blower motor resistor include the blower motor only working on certain speeds, no air blowing at all, or the blower motor running continuously even when the car is off.

How do I troubleshoot the blower motor resistor wiring in a 2012 Ford Fusion?

To troubleshoot, check for any visible damage to the wiring, test the resistor with a multimeter for continuity, and ensure all connections are secure. If necessary, consult the wiring diagram for correct pin assignments.

Can I replace the blower motor resistor without professional help in a 2012 Ford Fusion?

Yes, replacing the blower motor resistor can typically be done by a DIY enthusiast with basic tools, but proper knowledge of the vehicle's electrical system and safety precautions is essential.

What tools do I need to access the blower motor resistor in a 2012 Ford Fusion?

You will need basic hand tools such as screwdrivers, pliers, and a socket set. Depending on the location of the resistor, you may also require a trim removal tool.

Is there a common issue with the blower motor resistor wiring in the 2012 Ford Fusion?

Yes, a common issue includes corroded connections or wiring harness problems that can lead to intermittent blower motor operation or complete failure.

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