

2010 F 150 Fuse Locations

Rooting Complete Guide to 2010 F-150 Fuse Locations: Diagrams, Charts, and Troubleshoot

Tips

Owning a 2010 Ford F-150 means you have a rugged and reliable workhorse, but even the toughest trucks can experience electrical gremlins. A dead radio, malfunctioning power windows, or a suddenly silent air conditioner are often not signs of major failure but simply a blown fuse. Knowing the exact **2010 F-150 fuse locations** can save you time, money, and frustration. This

comprehensive guide covers every fuse box in your truck, explains the fuse map for your specific cab configuration, and walks you through common issues related to the **2010 Ford F-150 fuse panel**. Whether you own a regular cab, SuperCab, or SuperCrew, you'll find the diagram and layout you need right here.

Why Knowing Your Fuse Locations Matters

The 2010 Ford F-150 features multiple fuse boxes, each controlling different electrical circuits. Trying to fix an electrical issue without a **fuse box diagram** is like navigating a city without a map. A

blown fuse can interrupt critical systems such as the brake lights, horn, or even the engine control module. By understanding the **fuse panel layout**, you can quickly identify which fuse protects the component that has stopped working. Additionally, misidentifying a fuse can lead to using the wrong amperage replacement, potentially causing further damage. This guide provides a detailed **2010 F-150 fuse location map** so you can confidently handle minor electrical repairs yourself.

Ford designed the 2010 F-150 with two primary fuse boxes: one inside the passenger compartment (also called the interior or cabin fuse panel) and one under the hood (the power distribution box).

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Depending on trim level, there may also be an auxiliary fuse block. Let's explore each one.

Passenger Compartment Fuse Panel (Interior Fuse Box)

Location of the Interior Fuse Box

The interior fuse panel on the 2010 Ford F-150 is located on the driver's side, under the dashboard. To access it, open the driver's door and look near the kick panel area to the left of the steering column. You'll see a small plastic cover. Simply pull it off (it may require a firm tug or a flathead screwdriver to gently pry it free). The

cover often has a diagram printed on the inside, but this printed **fuse map** can fade over time. We'll provide a clear list below.

Interior Fuse Box Diagram and Functions (2010 F-150)

The **2010 Ford F-150 interior fuse box** contains fuses and relays for many comfort and convenience features. Here is a typical layout for standard cab and SuperCab/SuperCrew models. Note that certain optional equipment (such as power seats or moonroof) may affect some fuse positions.

- **Fuse 1 (10A):** 4-Wheel Drive Motor, Transfer Case Shift Relay, Rear Differential Lock

- Relay
- **Fuse 2 (10A):**
Powertrain Control
Module (PCM) Keep
Alive Memory,
Canister Vent
Solenoid
- **Fuse 3 (5A):** Brake
Pedal Position
Switch, Stoplight
Switch
- **Fuse 4 (20A):** Cigar
Lighter / Power
Point (Front)
- **Fuse 5 (15A):**
Cluster, Instrument
Panel, Message
Center
- **Fuse 6 (10A):** Air
Bag Module (SRS)
- **Fuse 7 (30A):** Power
Windows (Driver's
Seat Module, Driver
Door Module)
- **Fuse 8 (5A):**
Run/Start Relay,
FICM, PCM
- **Fuse 9 (15A):** Radio
(SYNC, Navigation),
Door Module
Memory
- **Fuse 10 (10A):**
Brake Pedal Position
Switch, Run/Start
Relay
- **Fuse 11 (15A):** Turn
Signal Lamps,
Hazard Lamps
- **Fuse 12 (10A):** Air
Conditioner Clutch
Relay, Vacuum
Pump Relay
- **Fuse 13 (20A):** Door
Locks (Driver's Door
Module, Passenger
Door Module)
- **Fuse 14 (20A):**
Power Seat (Driver),
Lumbar Support
- **Fuse 15 (15A):**
Backup Lamps,
Trailer Tow Backup
Lamp Relay
- **Fuse 16 (10A):**
OBD II Diagnostic
Connector, Cluster,
Start/Stop Button
- **Fuse 17 (15A):**

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Distribution

- Moonroof Power
Sliding Back
Window
- **Fuse 18 (5A):**
Windshield
Wiper/Washer
Switch, Rain Sensor
- **Fuse 19 (15A):**
Brake Pedal Position
Switch, Speed
Control Deactivation
Switch
- **Fuse 20 (10A):**
Restraint Control
Module (RCM)
- **Fuse 21 – 23:** Spare
fuses (not used or
reserved)

This list covers the most common circuits. Always verify with your owner's manual, but this **fuse chart** matches the majority of 2010 F-150 configurations.

Power

Box (Under Hood Fuse Box)

Location of the Under-Hood Fuse Box

The main **2010 F-150 power distribution box** is located in the engine compartment, near the battery on the driver's side. It's a large black plastic box with a cover that snaps into place. To open it, press the two tabs on the sides and lift the cover. This box contains high-amperage fuses (often called cartridge fuses or maxi fuses) plus standard blade fuses and relays. The inside of the cover should have a diagram, but again, we provide a detailed breakdown.

Under-Hood Fuse Box Diagram and Functions (2010 F-150)

The under-hood fuse panel protects major powertrain, lighting, and charging system circuits. Here is a representative layout for the 2010 Ford F-150 (both 4.6L V8, 5.4L V8, and 6.2L V8 models). Some fuses may vary by engine.

- **Fuse 1 (50A):**
Electric Cooling Fan
1
- **Fuse 2 (50A):**
Electric Cooling Fan
2
- **Fuse 3 (40A):** Anti-Lock Brake System (ABS) Module
- **Fuse 4 (30A):** Starter Relay – Starter Solenoid
- **Fuse 5 (30A):** Powertrain Control Module (PCM) – Fuel Pump Relay, Injectors
- **Fuse 6 (20A):** Trailer Tow Left Stop/Turn Lamps
- **Fuse 7 (20A):** Trailer Tow Right Stop/Turn Lamps
- **Fuse 8 (20A):** Trailer Battery Charge
- **Fuse 9 (10A):** A/C Compressor Clutch
- **Fuse 10 (15A):** Horn
- **Fuse 11 (15A):** Fog Lamps
- **Fuse 12 (15A):** Left High Beam Headlamp
- **Fuse 13 (15A):** Right High Beam Headlamp
- **Fuse 14 (10A):** Left Low Beam Headlamp
- **Fuse 15 (10A):** Right Low Beam Headlamp

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- **Fuse 16 (25A):** Compressor
Windshield Wiper Motor
 - **Fuse 17 – 19:** Spare fuses
 - **Fuse 20 (30A):** Rear Window Defroster
 - **Fuse 21 (20A):** Power Point 2 (Center Console or Rear)
 - **Fuse 22 (20A):** Power Point 1 (Cigar Lighter)
 - **Fuse 23 (15A):** Trailer Tow Parking Lamps
 - **Fuse 24 (10A):** Alternator Field (or Battery Sense)
 - **Fuse 25 (5A):** Powertrain Control Module (Keep Alive Power)
 - **Fuse 26 (15A):** Daytime Running Lamps (DRL)
 - **Fuse 27 (15A):** A/C Clutch Relay
 - **Fuse 28 (10A):** Horn Relay, Horn
 - **Fuse 29 (10A):** Heated Side Mirrors
 - **Fuse 30 (15A):** Fuel Pump Relay Feed
- Note: High-current fuses (rated 30A to 50A) are often of the “j-case” or “low-profile” cartridge type. Always replace with the same type and amperage.

Relays in the Power Distribution Box

In addition to fuses, the under-hood fuse box contains critical relays. Knowing their location is part of the **2010 F-150 fuse box diagram**. Common relays include:

- Fuel Pump Relay
- Starter Relay
- Horn Relay
- A/C Clutch Relay

- Trailer Tow Battery Charge Relay
- High-Speed Cooling Fan Relays

If a component like the fuel pump or horn fails to operate, a faulty relay could be the cause. You can swap a relay with another of the same part number for testing.

Auxiliary Fuse Block (Some Models)

Certain 2010 F-150 variants, especially those equipped with the Heavy-Duty Payload Package or snow plow prep package, include an auxiliary fuse block. This might be located on the passenger side of the engine compartment near the firewall, or behind the

passenger-side kick panel inside the cabin. The auxiliary block supplies power for upfitter switches, additional lighting, or PTO equipment. Check your owner manual if you have these packages.

How to Check and Replace a Fuse on a 2010 F-150

Tools Needed

- Fuse puller tool (often located inside the power distribution box or interior fuse panel)
- Needle-nose pliers (as a backup)
- Replacement fuses of the correct amperage and type
- A test light or multimeter (optional)

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but helpful)

fuse protects that circuit.

Step-by-Step Guide

1. **Identify the malfunction:**

Determine which electrical component is not working (e.g., radio, power windows, brake lights).

2. **Consult the diagram:** Use the **fuse box chart** above to find which

3. **Turn off ignition and all loads:**

Safety first. Turn the key to off and remove any accessories.

4. **Locate the correct fuse box:** Open the interior or under-hood panel.

5. **Remove the fuse:** Use the plastic fuse pull