2010 F 150 Fuse Locations

Complete Guide to 2010 F-150 Fuse Locations: Diagrams, Charts, and Troubleshooting 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). 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)**: 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 DISTRIBUTION 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
- **Fuse 16 (25A)**: 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, Compressor

- **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 but helpful)

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 fuse protects that circuit.
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 underhood panel.
5. **Remove the fuse:** Use the plastic fuse pull