

FLTW-7511

2015-Current Ford F-150 Black Handle with Camera

Kit Contents:

- Tailgate Handle with Camera
- Chassis Harness with RCA
- 1 bag containing:
 - Template (along with these instructions)

Tools Required:

- T30 Torx Driver
- 8mm and 10mm Sockets
- Flat Head Screwdriver
- Phillips Screwdriver
- Plastic Trim Removal tool
- Drill Bit (if needed)
- 1 inch Center Hole Saw
- Soldering Iron
- Small brush
- Round file (if needed)
- Deburring Tool



NOTE: We strive to provide accurate and up-to-date installation instructions. The latest full color instructions can be accessed at www.brandmotion.com

PRE-INSTALLATION VEHICLE CHECKLIST

Before beginning, determine how the vehicle is equipped and check appropriate boxes:

Determine whether the vehicle has an opening in the center of pickup bed close to opposite of the opening in the bottom of the tailgate.

- YES**, skip Section 1.
- NO**, tailgate must be removed to drill an opening for the camera harness (refer to Section 1).
- Check kit contents are complete against the list above.

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Section 1: Cut Pickup Bed Opening

Follow Steps 1 through 4 only if the vehicle does not have an opening in the bed above the license plate per Figure 1

Figure 1



1. Prepare a clean, flat work surface for tailgate. Remove tailgate retaining straps with a screwdriver. With an assistant, remove the tailgate by lifting away from lower tension pins, and set tailgate aside.
2. Measure 21 inches from the left edge and 1¼ inches from the top and make a temporary mark on the pickup bed (Figure 2).

Figure 2



3. Center punch the mark and drill a pilot hole. Next, cut a 1-inch opening with a hole saw (Figure 3).

Figure 3



4. Clean the rough edges of the opening with a deburring tool. Recommended: Use a cotton swab or small brush to apply corrosion inhibitor to exposed edges (Figure 4). Reinstall tailgate.

Figure 4



Section 2: Camera Installation

- 5.** Remove the sheet metal cover from inside of the bed on the tailgate by removing the Torx bolts holding it on.
- 6.** Remove the tailgate handle by loosening two nuts with a 10mm socket.
- 7.** Route camera harness through handle opening in tailgate to the hole in the bottom of the tailgate.
- 8.** Reconnect to latch rods onto the handle.
- 9.** Install supplied tailgate handle camera into tailgate by tightening two nuts with 10mm socket.
- 10.** Pass the connector end of the tailgate handle camera through the 1-inch opening in the pickup bed.
- 11.** Reattached the tailgate to the bed of the truck if you had to remove it for installation of the camera harness.
- 12.** Reinstall the metal cover back on the tailgate with the Torx bolts that were just removed.

Section 3: Chassis Harness Installation

13. Remove the driver side sill plate with a trim tool.

Figure 5



14. Loosen driver side A-pillar molding using your hands, and then remove the driver side lower kick panel.
15. Pull back carpet in front of driver's seat.

Figure 6



16. Secure F150 template over opening in front of driver's seat.

Figure 7



17. Center punch and drill a pilot hole then drill a 1-inch hole with a hole saw.

18. Clean the hole with a deburring tool.

Figure 8



19. Recommended: Use a cotton swab or small brush to apply corrosion inhibitor to exposed edges.

Figure 9



20. Route the supplied chassis harness through the drilled opening and seat the grommet from the inside of vehicle.

Figure 10



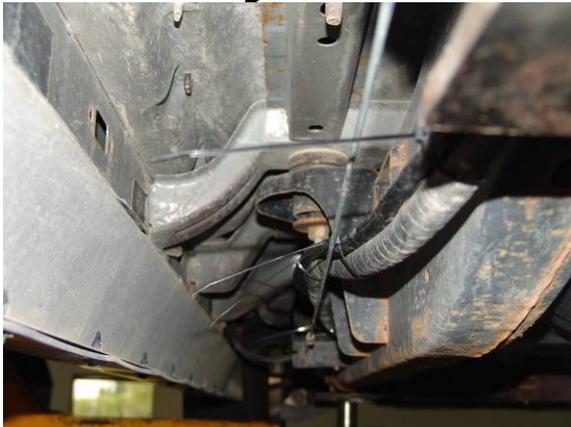
Section 3: Chassis Harness Installation continued

21. Route the exterior portion of the supplied chassis harness along existing vehicle chassis harness and over fuel tank. Use zip-ties to secure the harness to existing wiring at 2-inch intervals.

Figure 11



Figure 12



22. Loop any excess from the harness as shown and secure with zip-ties.

Figure 13



23. Line up the arrows on the top of the connectors, and plug the 4-pin camera harness connector installed earlier under the pickup bed into the 4-pin chassis harness connector.

Figure 14



Section 4: Wiring for Display

- 24.** If needed, install aftermarket display or navigation display per instructions.
- 25.** Remove the door sillplate with a trim tool and remove passenger side kick panel with hands.
- 26.** Attach an eyelet to the BLACK ground wire from the supplied chassis harness and connect it to the chassis ground or to sheet metal.
- 27.** Splice the RED wire from the supplied chassis harness to ignition. Solder and cover the connection with tape or heat shrink tubing. Tape off and isolate the RED wire coming from the male RCA on the chassis harness.
- 28.** Connect the male RCA from the chassis harness to the camera IN on the aftermarket display or navigation display. In some cases, a RCA extension may be required.
- 29.** This camera comes with static gridlines enabled by default. To turn off gridlines, cut the GREEN wire loop on the camera harness and tape off each end. Do NOT cut the WHITE wire loop on the camera harness, or your camera image will be reversed.
- 30.** Start the vehicle and shift into reverse. If all the connections are correct, an image will appear on the aftermarket display or navigation display.
- 31.** Reinstall all previously removed interior and exterior parts.