



Installation Instructions for Ford F150 Raptor 8" Halogen Light Kit #M-15200-F15R8HAL

Thank you for purchasing the Ford/KC HiLiTES Off-Road lighting system for your new Ford F150 Raptor. Should you have any questions about Ford Performance Racing Parts, please contact Ford Racing Techline at (800)FORD788.

Parts Included in the Box

1 - Instructions	4 - Black Grills
2 - 8" Driving lights w/wiring	1 - Torx wrench
2 - 8" Off Road lights w/wiring	6 - 8" Wire ties
12 ft - Convoluted tubing	36 - 4" Wire ties
2 - #10 Weathertight butt connector (apply heat to make weather tight)	2 - #10 Standard butt connector

Tools Required for Installation

19mm open or box wrench
13mm open or box wrench
Wire stripper/crimper

Installing the Lights and Wiring

1. Mount the four KC lights (two outside driving, inner long range).
2. The Ford F150 Raptor has four (4) auxiliary switches on the center console. You will be using the switches "Aux 1" (Relay #1) and "Aux 2" (Relay #2). These each control fused 30 amp circuits that are capable of handling the power required by the KC lights. F150 Raptor is also equipped with four (4) pass-through 12 gauge wires. These wires are located inside the right hand kick panel, then pass through the dash panel and end under the hood at the right hand fender inner, near the hood hinge and AC hard line. If necessary, please consult the F150 Raptor Owner Guide supplement for the latest wiring information with wire colors.
3. Remove the right hand kick panel and right hand end cover of the instrument panel inside the vehicle to access the eight (8) blunt cut wires. Four (4) of the wires are colored as follows: **Yellow, Green w/Brown Stripe, Violet w/Green Stripe and Brown**. The only wires used for this installation are **Yellow and Green w/Brown Stripe**. These wires are covered with black shrink wrap. Strip insulation and shrink wrap on the **Yellow** wire from **Relay #1** and the **Green w/Brown** wire from **Relay #2 ONLY**. Remove the shrink wrap from two (2) of the 12 gauge solid color pass through wires. For future reference and consistency we recommend using the solid **Red** and solid **Blue** 12 gauge pass-through wires for lighting. Attach one of these wires to the **Yellow** wire and the other to the **Green w/Brown** wire using the two (2) supplied **standard butt connectors**. The other end of these pass-through wires will be located under the hood.
4. The pass-through wires are located under the hood on the passenger side inner fender near the AC hard lines. They are "blunt cut" and individually capped with shrink wrap.
5. Strip and prepare your selected pass-through wires for connection. Attach one (1) of the supplied **weathertight butt connectors** to each of the pass-through wires from step #3 above. Connect two (2) matching color KC light wires to the other end of the butt connector that is already attached to the **Yellow** wire. Repeat this step with the other two (2) matching KC light wires and the **Green/Brown** wire.
6. The KC light wires need to be routed down to the lights. Follow the battery cable with your KC light wires down through a hole near the radiator support. You can route the wires along the hood release cable, then through the squarish hole on the driver side of the lower bumper grill. Attach one of each the matched paired wires to each of the two outside KC lights. Each of the other two matched wires should be attached to each of the inner KC lights. Attach one of the black ground wires to each of the KC light. Route the four (4) black wires back under the hood to a good chassis ground. Cover your wiring with the supplied split convoluted tubing and secure with wire ties. Wiring is now complete.
7. Aiming your lights is a personal preference. A good starting point is, on level ground, position your vehicle about 25 feet from a garage door or wall. Aim all of your KC lights at or slightly higher than your factory high beams. This should be tested on the open trail. When satisfied with alignment of your KC HiLiTES system, tighten your lights and enjoy.