

# Quadratec® LED Replacement Headlights

Installation Manual: for Jeep CJ and 1997-Current  
Wrangler TJ/JK Vehicles #97109.005X



#### PARTS LIST:

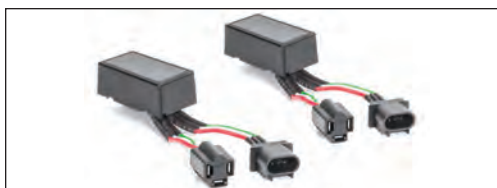
LED Headlights - QTY 2  
Pulse Width Modulation (PWM)  
Wiring Harness - QTY 2 (JK ONLY)

#### REQUIRED TOOLS:

Safety Glasses  
Phillips Head Screwdriver

#### REQUIRED TOOLS:

T15 Torx Head Screwdriver  
Small Flat Blade Screwdriver



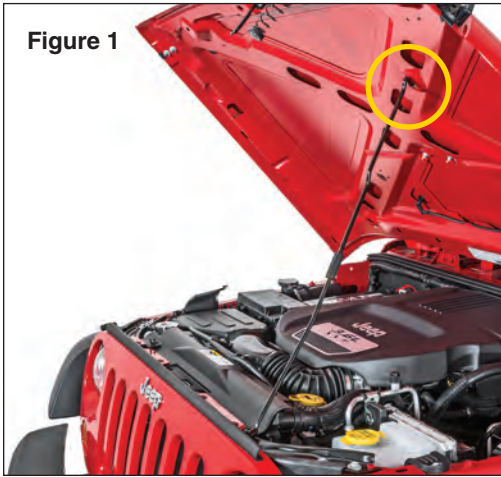
**CAUTION**

READ ALL SAFETY MESSAGES AND UNDERSTAND ALL INSTRUCTIONS BEFORE ATTEMPTING TO INSTALL THIS PRODUCT. ALWAYS WEAR SAFETY GLASSES DURING INSTALL.

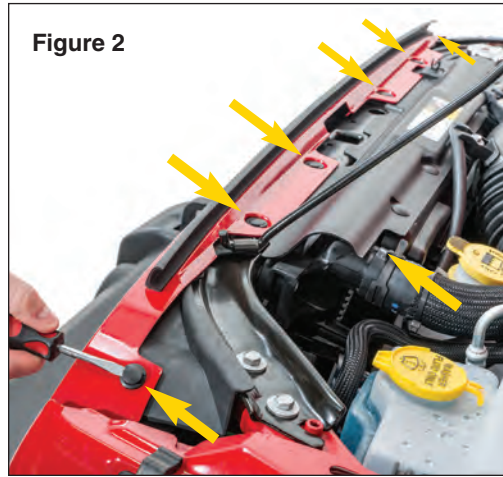


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**PART A: Headlight Install for '07 - Current JK**



*Put on safety glasses. Open the hood of your Jeep®. Put the prop rod into the correct slot to hold hood open (Fig 1).*



*Locate the six plastic fasteners that secure the front grille to the upper body support (Fig 2).*



*Depending on your model year, pry up or unscrew the plastic fasteners (6 total) using a small screw driver. Early vehicles may feature phillips head screws, but most vehicles have a pry-up rivet as shown (Fig 2). First remove the center, then remove the body of each plastic retainer (Fig 3). Set rivets & screws aside in a safe place for re-installing the grille.*

*Next, gently tilt the front Grille forward so you can reach the headlight assembly (Fig 4).*



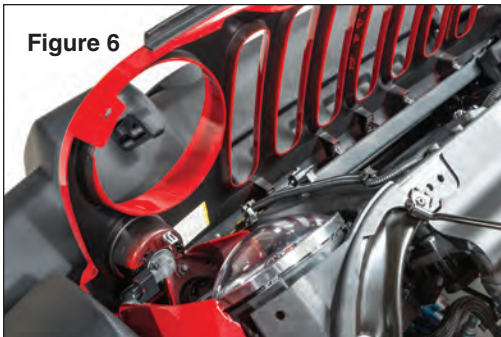
*Helpful Hint: If you are installing the LED Headlights by yourself, you may want to completely remove the grille from the front of the vehicle. To remove the grille, carefully disconnect the two front turn signal bulbs (Fig 5) with a quarter-turn and then gently pop the grille from its lower retainer*



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**PART A: Headlight Install for '07 - Current JK**



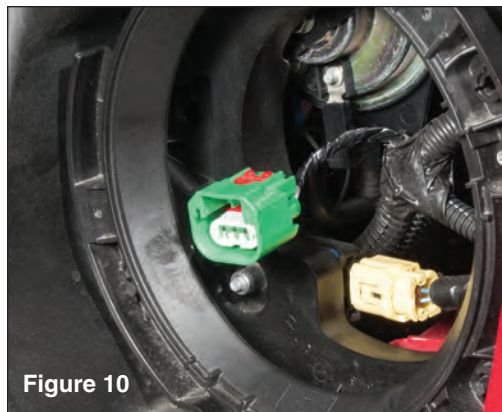
*clips. Once the grille is removed and/or tilted forward, locate the chrome trim rings around the Headlights. Using a T15 Torx screw driver, remove the fac-*



*tory headlight trim ring on each headlight (Fig 8). Place the removed screws (4 per light) in a safe place as they will be re-used to install the LED Headlights.*



*As shown in Figures 9 & 10, remove original headlight from housing and disconnect the wiring connector by sliding the red latch mechanism away from the headlight and then depressing the green latch. Be careful not to drop original headlight. Note: You may wish to save the factory headlights for future use.*



*As shown in Figure 11, connect the PWM harness to the vehicle harness and slide the red latch back into the locked position.*



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**PART A: Headlight Install for '07 - Current JK**



Figure 12

Connect the new LED headlight harness to the other connector on the Pulse Width Modulation (PWM) Harness.



Figure 13

Carefully stow the wiring and the PWM into the headlight bucket area. Be careful not to pinch any wires.



Figure 14



Figure 15

(FIG 14) Align the three tabs on the back of the headlight with notches in the headlight bucket. (FIG 15) Reinstall headlight trim ring using factory T15 torx screws. Repeat all above steps for the passenger side headlight. Reinstall the Grill, Turn signals, etc. in the reverse order of the disassembly. Always check the aim of your headlights before driving and adjust as needed (FIG16) using a T15 torx on the adjusting screws. JK LED Headlight installation is complete.



Figure 16

**CAUTION**

**ALWAYS CHECK TURN SIGNAL AND HEADLIGHTS FUNCTION BEFORE DRIVING AFTER HEADLIGHT AND GRILLE INSTALLATION.**



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**PART B: Install for CJ and '97-'06 TJ Wrangler Vehicles**



Figure TJ1

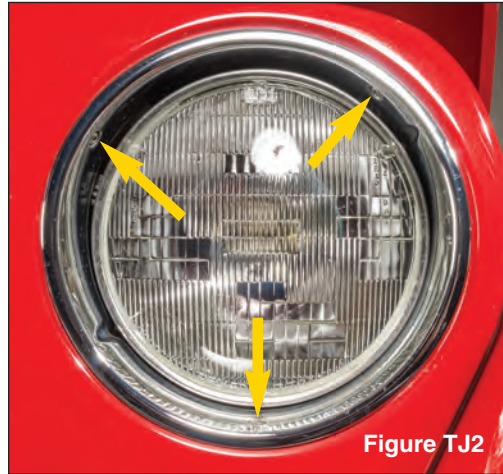


Figure TJ2

*The following is the LED Headlight installation procedure for all 1997-2006 Wrangler TJ & LJ (Unlimited) Vehicles: Open the vehicle hood and secure the*

*hood with the prop rod. Remove the headlight bezel by first removing the three T15 torx screws shown in Figures TJ2 and TJ3.*



Figure TJ3



Figure TJ4

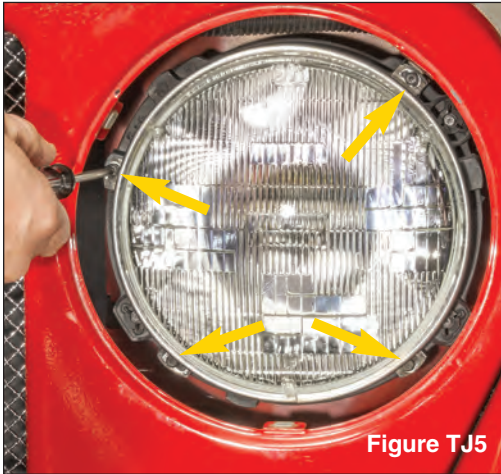
*Remove the headlight bezel as shown in Figure TJ4 and set it down carefully with the factory torx screws for reinstallation.*

*With the headlight bezel removed, the inner headlight retaining ring will be revealed. (see next page)*



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**PART B: Install for CJ and '97-'06 TJ Wrangler Vehicles**



*Remove the headlight retaining ring by removing the 4 T15 torx screws as shown in Figure TJ5. Safely set aside the screws for re-installation.*



*Then unplug and remove the stock headlight as shown in Fig TJ6 and TJ7.*



*NOTE: You may want to save factory original headlights for future use such as crash repair or otherwise.*



*Plug in the new LED headlight. Be sure to align the tabs on the light with the notches in the headlight bucket.*

**⚠ CAUTION ⚠**

**ALWAYS CHECK TURN SIGNAL AND HEADLIGHTS FUNCTION BEFORE DRIVING AFTER HEADLIGHT AND GRILLE INSTALLATION.**



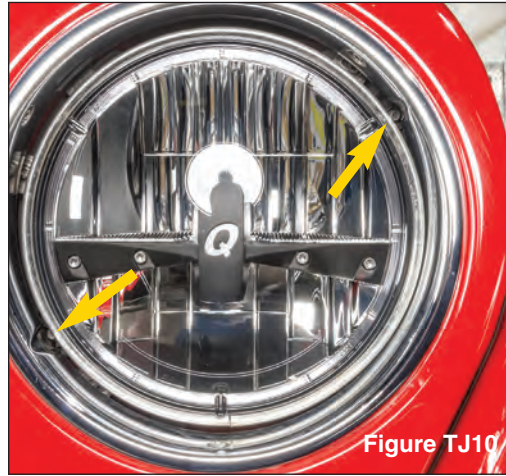
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**PART B: Install for CJ and '97-'06 TJ Wrangler Vehicles**



*Reassemble with the new LED Headlight in the reverse order. Repeat all steps for opposite side headlight. Always check the aim of your new LED headlights before driving.*



*Adjust aim as needed using a T15 torx on the adjusting screws as seen in Figures TJ9 and TJ10.*

*Headlight installation is now complete.*



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