Headlight Removal & Installation: BMW X5

Tools Required:
• 3/8” or 1/4” drive socket wrench
• 3/8” or 1/4” socket extension
• 8mm or 5/16 inch socket
• Torx T15 bit and screw driver
• Flathead Screw Driver

* Throughout this installation guide, clicking on the pictures will enlarge them for closer view *

Removal

Step 1. Remove 2 clips and one 8mm bolt next to headlight.

Step 2. Remove plastic trim under headlight using flathead or clip remover as shown. Begin with the side closest to grill and work your way towards the fender.

* trim has 3 tongues. One closest to grill is butterfly clip. 
Step 3. Remove the two 8mm bolts behind trim.

* place a small piece of tissue paper / sand paper / gum into socket or use socket simultaneously with magnetic pick up tool. This will prevent the bolt from dropping into the bumper.

Step 4. Remove four 8mm bolts. Two on top of headlight, two behind.
Step 5. Disconnect headlight wires. There are a four. Also disconnect ballast wire beneath headlight housing. (Numbers correspond with wires accordingly)

1. corner light
2. low beam
3. high beam
4. auto level

Step 6. Remove the headlight carefully by pulling the headlight towards you, away from engine.

Step 7. Remove ballast. Pull ballast bracket out and remove ballast holder using T15 Torx and transfer ballast to new headlight re-using original headlight ballast holder, Torx nut and shim.

Step 8. Test headlights and corner lights and check connections.

*when reconnecting ballast, make sure the connector is CLIPPED IN CORRECTLY, positive red wire to positive (+), negative black wire to negative(-).

Step 9. Installation: reverse steps (attach ballast to bracket, place headlight back into car, bolt ballast bracket, reconnect wires, etc).

*when headlight is back in, do not tighten the 4 bolts from step 4 just yet until headlight has been aligned with bumper.
Tools Required:
• 3/8” drive socket wrench
• 3/8” extension
• 8mm or 5/16 inch socket
• 10mm socket
• 3/16 Allen wrench
• Flat Head Screw Driver

Step 1. Remove the positive terminal post nut using a 19mm socket.

Step 2. Connect positive (all red) wire with hook and sandwich beneath terminal post nut by first hooking both wires onto bolt, then reconnecting nut.

Step 3. Remove windshield cowl (6 twist clips, 1 lock knob).
Step 4. Route longer side of harness to passenger side via top engine compartment.

Step 5. Remove intake filter corner piece by pulling it up to give room for ECU cover removal (Figure 1). After removing corner piece, begin removing the four screws using a 3/16" Allen wrench (Figure 2).
Step 6. Look for ignition wire which is a red wire marked by a yellow snake pattern. Tap the trigger wire (thin red wire with white stripe) from provided harness, into ignition wire using either a T-tap connector as shown or by splicing.

Step 7. Ground the negative, all black wire with ring at the end, wire (10mm) by attaching it to any metal surface. We chose to ground in the cowl area.

Step 8. You may choose to not secure relay and fuse or you may attach to a location of your preference.

Step 9. Test headlights and angel eye rings to ensure everything is working properly.

Step 10. Reinstall areas such as cowl and ECU box.