



## ***Billet DLX Coil Relocation w/ Barrel Key***

***OR***

## ***Push-Button LED Ignition Switch***

***Handcrafted in the USA!***

**Fits 2007-Up Sportster Models**

### **INSTRUCTIONS**

**\*\*\*READ ALL THE INSTRUCTION BEFORE PROCEEDING\*\*\***

#### **Parts included:**

- 1 Billet Coil Relocation Bracket
- 1 Barrel Ignition Switch w/ Keys (if applicable)
- 1 High Temp Silicone Rubber Seat
- 2 1/4-20 x 2" Socket Head Bolts
- 4 #8-32 x 3/8" screws with lock washers
- 4 Heavy Duty Zip Ties
- 3 Wires w/ Posi-Lock Connectors (used only w/ 07-13 Barrel Key Applications)

#### **Disassembly and Preparation:**

1. Remove Main Fuse OR disconnect battery before proceeding.
2. Remove both spark plug wires from the coil
3. Remove Ignition Switch Face Nut (chrome ring around switch)
4. Remove nut holding the side of coil bracket to frame (at the tank mount)
5. Remove bolt ( this is holding the front of the tank and the coil bracket) Keep bolt and nut, they will be re-used.
6. Remove torx screw securing left side of coil bracket to the right side of coil bracket
7. Unplug coil harness connector from the coil
8. Remove the two screws securing the coil to the mounting bracket. Keep the retaining nut plate, it will be reused.
9. Remove plastic Ignition Switch Cover from mounting bracket.
10. Carefully re-route the coil harness connector and the ignition switch back between the cylinders on the left side of the bike. This may require removing some factory zip ties. We have included some zip ties so you can replace them after re-routing the wires. Be careful not to yank on the wires.
11. This is the time to install your tank lift using the supplied tank lift instructions.

12. Install your coil onto your new Billet DLX Coil Relocation Bracket. The coil is mounted to the top of the bracket with the spark plug wire connectors facing away from the bike. The supplied silicone goes between the coil and the bracket. Use the supplied 1/4" bolts and the retaining nut plate, from step 8 above, to fasten into place. (When fastening into place make sure the coil stays centered in the bracket, and that the coil is slid far enough back for plenty of clearance to connect the coil harness connector.)

13. If you have a *14 and up model*, skip to step 14.

**IF** you have an 07-13 model, there is a small plastic stem on the center connector of the Barrel Switch Ignition Connector that needs to be removed. This is easily accomplished with a razor blade or pair of wire snips. **See PHOTO A below-**

14. Install your Barrel Ignition to your Deluxe Coil Relocation Bracket using the 4 supplied screws with lock washers.

#### **Coil Connection Preparation ALL Years:**

1. The factory coil connector has small identifying labels on the back of the connector (A,B,C, and D) The wires in location C and D need to be swapped. Place a piece of tape around the wire in the D location so you can keep track of which wire is which during the next steps. **See PHOTO B below-**

2. To swap the wires first remove the gray safety strap from the back of the plug, then remove the purple cover from the front of the plug. This is done by sliding a small flathead screwdriver between the purple cover and the black housing unlatching the cover from the housing. **See PHOTO C below-**

3. Now that the cover is removed you will see the retaining clips holding the connectors in place. Using the small flathead screwdriver carefully pull the plastic retainers in location C and D up and pull the wires out. **See PHOTO D & PHOTO E below-**

4. Place the wire from position D (The wire the tape was put on in above step) in Position C and the wire from position C in to position D.

5. Reinstall the purple Cover into position and verify the terminals are pushed all the way into the connector. Once they are pushed all the way in the retaining clips hold them in place. Reinstall the gray safety strap to the back of the plug.

#### **Ignition Switch Connection Preparation:**

***\*In the below steps it is crucial that the main fuse is pulled or the battery is disconnected, not doing so is likely to result in damage to the bike's electrical system.***

**If You are installing with the Push-Button LED Switch, STOP NOW, and follow the Instructions that came with the Push-Button LED Switch.**

1. **If you have a 14-up model** the Barrel Switch Ignition provided uses the same connector as your factory ignition. Simply unplug the connector and you are ready to install your Billet DLX Coil Relocation Bracket. Skip steps 2 & 3 below.

**IF you have a 07-13 model** follow the steps 2 & 3 below.

2. Since there is no plug on your ignition we are going to have to cut the wires leading to the

factory ignition switch. A good place to cut them is about 2" back from the ignition leaving yourself the option to reuse the ignition in the future.

3. Once the wires are cut, remove about 1/2" of the outer cover of the wires and install the three supplied Electrical Connectors on the Posi-Lock side. **See Posi-Lock PHOTO below-**

**Installing your Billet DLX Coil Relocation Bracket: (For Push-Button LED application, proceed to Step 5 below)**

1. Remove the two torx bolts on top of the left hand side of the cylinder heads. Set the bolts aside they will be reused.
2. Plug the modified factory coil plug into the coil.
3. **14 and up models** plug your factory ignition plug into your new Barrel Ignition and continue to step 5. **07-13 models** continue to step 4.
4. Your new Barrel Ignition has three Terminal Connectors (labeled A,B, and 1) The three wires you installed Posi-Lock connectors on need to be hooked up here. The solid red wire goes to the terminal labeled A, the red wire with gray stripe goes to the terminal labeled B, and the red wire with the black stripe goes to the terminal labeled 1.
5. With the bolts set aside from step 1 of this section, bolt your Billet DLX Coil Relocation Bracket in place between the jugs of the left hand side of your bike making sure it is centered between the jugs.
6. If your Billet DLX Coil Relocation Kit came with plug wires, install them at this time. Each plug wire goes to the cylinder closest to that side of the coil. If you did not get the optional wires with your kit, reinstall your factory plug wires.
7. Verify all wires are routed and secured with the supplied zip ties in a safe location, not making contact with components that could damage the wires from heat or chafing.
8. Replace Main Fuse OR reconnect the battery and test functionality of your new ignition switch- turned one direction it gives you accessory power, turned the other direction it is ready to start. In the center it is turned off. The center position is where you can flip open the side hinged cover and use your barrel key to lock the switch, preventing it from being turned.
9. Go for a ride!

**General Notes:**

- The rider's safety depends on the correct installation of this kit. Hooking wires up incorrectly can damage the motorcycle's electrical system. Please read & follow the Instructions above. Please do not attempt if you have any doubts of your ability to install.
- Use blue threadlocker on all threads.
- We recommend using dielectric grease on all electrical connections.
- Please note: The Barrel Ignition Switch will get hot, this is not a problem for the switch, they are made to withstand the heat, however, if you are not wearing gloves, it may come as a bit of a surprise when you go to turn it off after a longer ride.

Patent Pending.

## ***Posi-Lock Connector***

**EASY AS ①②③**

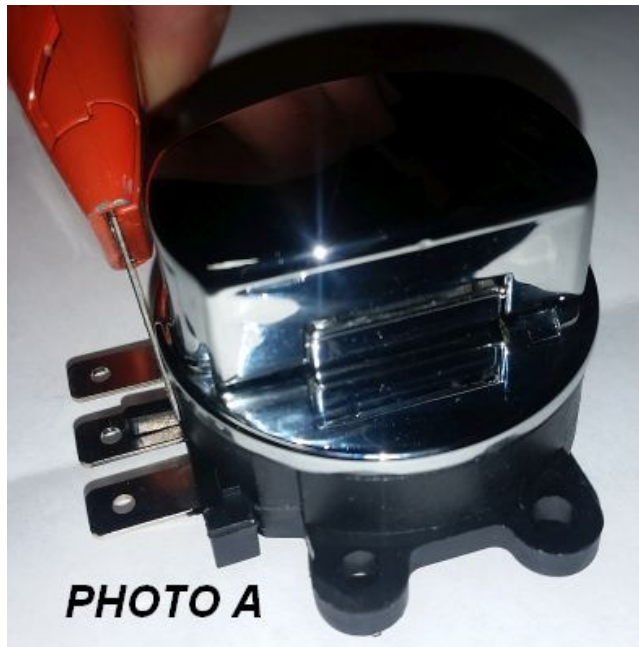
① Strip wire 1/2"



② Insert

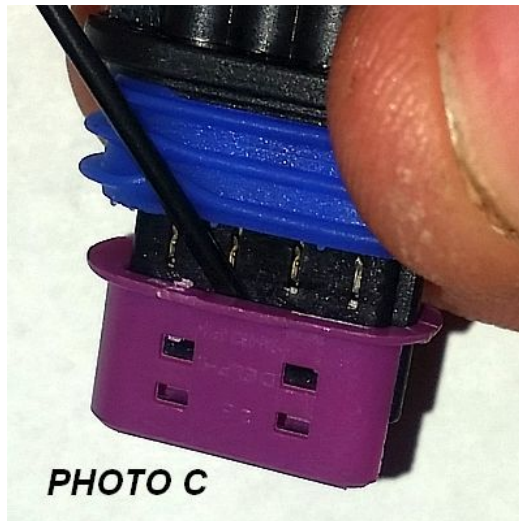
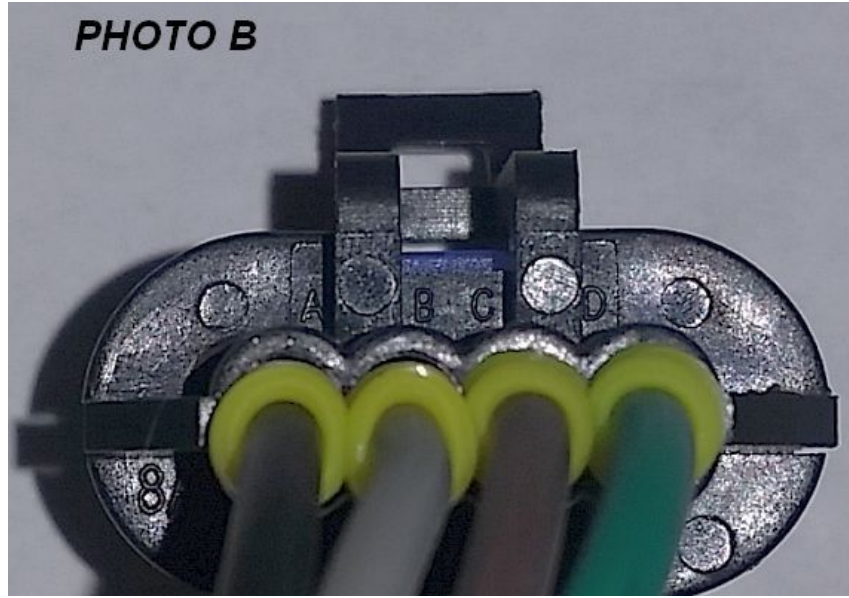


③ Hand tighten

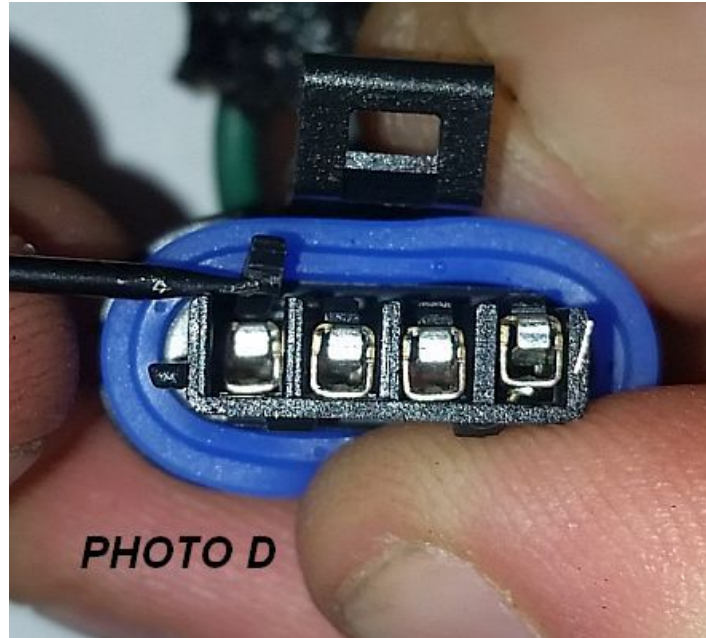


**PHOTO A**

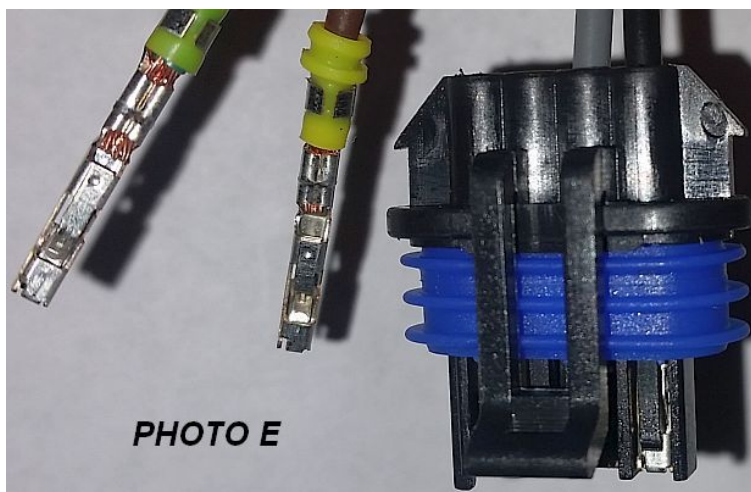
**PHOTO B**



**PHOTO C**



**PHOTO D**



**PHOTO E**