



These instructions describe how to properly install 12” FBI EZ Install Kits on 2008-2013 FLHTCUSE & FLHXSE (Hydraulic Clutch Models)

109712- Install kit for 12” Handlebars for 08-13 FLHTCUSE, FLHXSE (Hydraulic Clutch Models)

**WARNING: The rider’s safety depends upon the correct installation of this kit. Use the appropriate service manual procedures. If the procedure is not within your capabilities or you do not have the correct tools, contact a dealer to perform the installation. Improper installation of this kit could result in death or serious injury.**

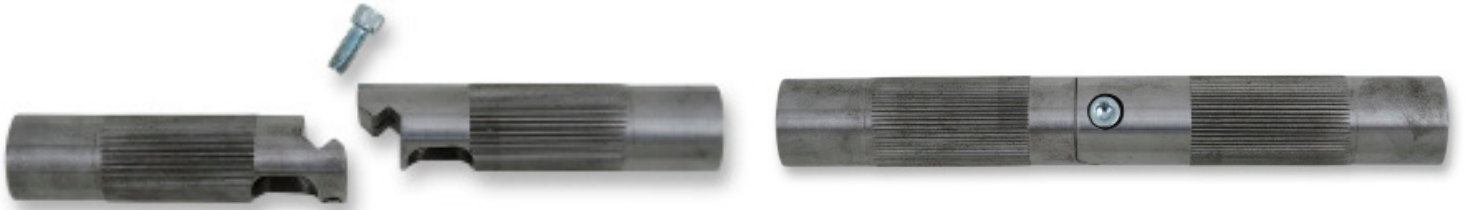
**Test brakes at low speed. If brakes are not operating properly, testing at high speeds can cause loss of control, which could result in death or serious injury.**



109712

Tools & Supplies
3/16 Allen Socket
Torque Wrench
Small Flat Blade Screwdriver
T27 Torx
1/2 Wrench
9/16 Wrench
T25 Torx
T40 Torx
Side Cutters
Needle Nose Pliers
Small Pick
Paper Clip or Wire Detent Tool
Air Blower
Black Tape
3/32 Allen
1/4 Allen
Tank and Front Fender Cover
12mm Wrench
13mm Wrench
3/8 Wrench
7/16 Wrench

1. Install center handlebar bolt. Torque to 10 ft lbs.



2. Remove ignition switch knob by inserting key, press and hold button underneath side of knob while turning key to the left past the unlock position. Pull knob straight out.



3. Remove ignition nut and spacers from fairing cap.



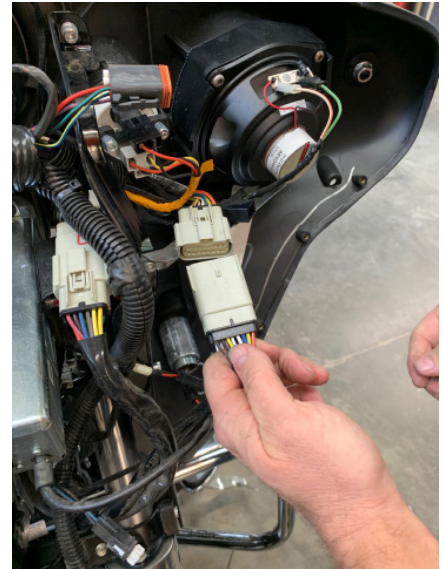
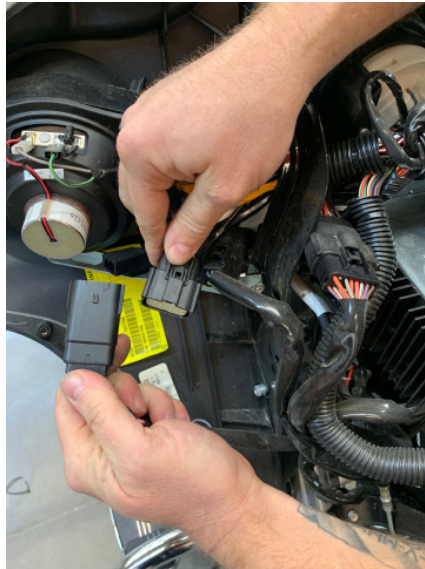
4. Remove fairing cap.

5. Remove outer fairing and windshield.

6. Unplug and remove turn signals.



7 Unplug handlebar and throttle wiring.



Throttle Sensor Plug In

Right Handlebar Switch

Left Handlebar Switch

8. Remove lower triple tree cover. Rotate inner fairing forward by spreading bottom of fairing out away from forks and lifting up.

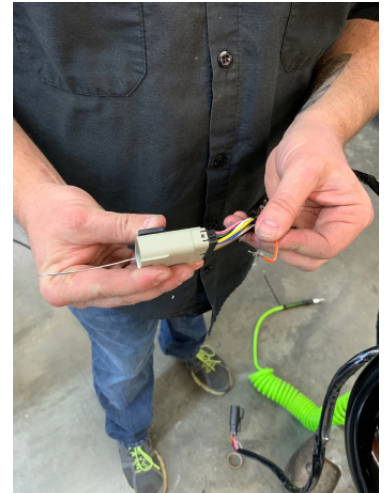
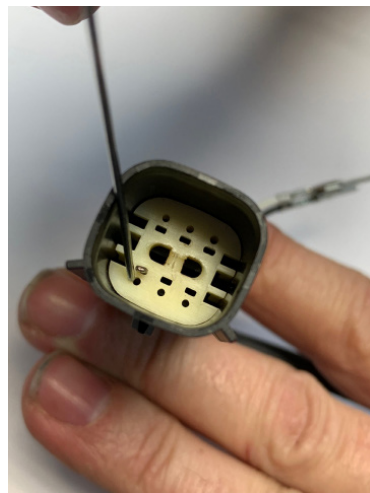


9 Cut zip ties that hold the wires to the handlebars and remove master cylinder and switch housings

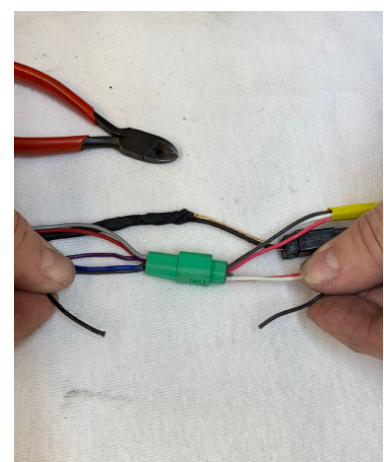
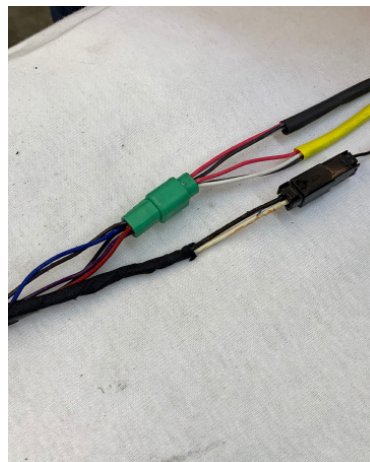
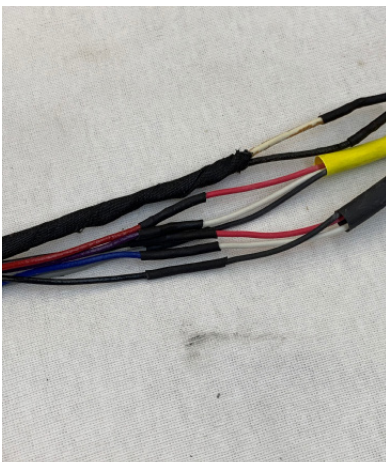


10. Remove the 4 bolts that hold handlebar clamp and remove stock handlebars from bike.

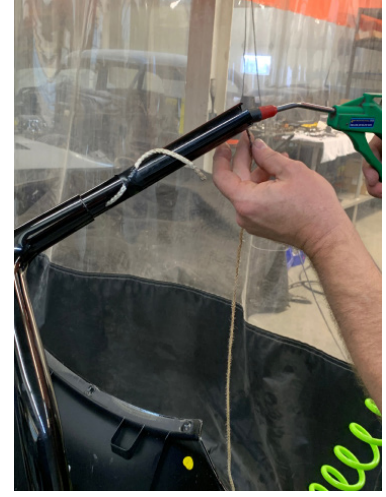
11. Remove mox plug from end of throttle sensor wires and mox plugs from switch housing wires. Insert needle nose pliers or pick into center of connector and pull outward until a click is heard. Then insert a paper clip or wire detent tool into round hole next to terminal to release wire from plug-in. Before removing wires make notes of wire color to corresponding number on terminal.



12. Remove throttle tube sensor from stock handlebars. Cut and remove green and black connector from the harness. When removing green connector, cut and solder 1 set of wires at a time. Used supplied shrink tube to cover soldered connections. Once all connections are made and soldered, wrap harness with black tape.



13. Using supplied ropes, use an air blower to push 1 rope through the left FBI handlebar grip tube hole to center clamp hole. Blow 1 rope through right FBI handlebar grip tube hole to center clamp hole and rope 1 through the right FBI handlebar throttle hole to center clamp hole.



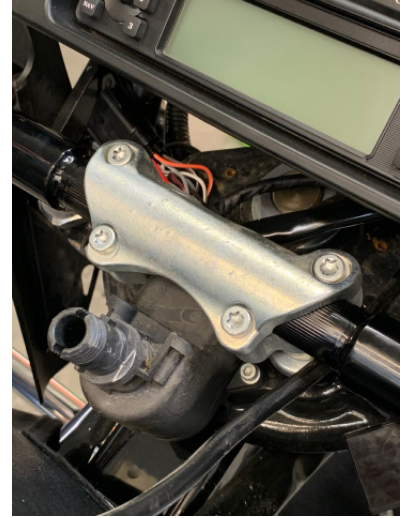
14. Take left switch housing and tape wires to the left string at the grip housing hole. Apply supplied petroleum jelly to the wire loom. Pull taped string and wires through left handlebar center clamp hole by pushing the taped end and pulling on the string end. Push and pull until the taped end through the center clamp hole of the handlebars.



15. Tape right switch housing wires to the left string that comes out the grip housing hole. Tape throttle wires to the string that comes out the top throttle hole of the right handlebar. Add lubricant generously to both the switch and throttle wire looms. Pull the switch wire loom through the handlebar and then pull throttle wire loom through the handlebar.



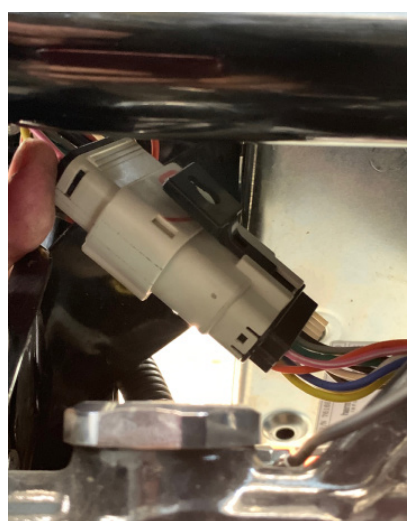
16. Once wires are through, reinstall the connectors by putting the color wire to corresponding number on terminal that was written down in step 11. Install FBI handlebars on to bike. Torque handlebar clamp bolts to 18-22 ft. lbs



17. Reposition inner fairing to stock location on triple trees. Route throttle sensor wire to stock location and plug-in. Reinstall front brake master cylinder.



18. Reroute switch housing plug-ins to top of triple tree to meet up with switch housing plug-ins on handlebars.



Left Switch Wires



Right Switch Wires

## 19. Bleeding process.

Items Needed: 1/4" Hose, Catch Cup, Brake Fluid

1. Open bleeder 1/4 turn and then install hose. Note: The bleeder valve provided is a speed bleeder. It has a spring and a ball inside of it. As you pump the levers, it allows fluid to pass out of the bleeder and reseals itself. No need for a vacuum bleeder.
2. Remove reservoir cap and position master cylinder in a downward position so air does not trap inside the reservoir.
3. Pump handlebar lever 8 to 10 times or until the lines are filled with fluid.
4. Retighten bleeder screw.
5. Apply brake/clutch and check for any leaks.
6. Reinstall gauge cluster.

### Line Extension Routing



20. Reinstall lower triple tree cover, turn signals, outer fairing, and windshield.