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These instructions describe the procedure for properly installing the FBI EZ Install Handlebar Kit for 2021-2023 FLHT, FLHTK, FLHX, FLHXS, FLHXSE, FLHTKSE, FLHTCUTG, FLHTCUTGSE, (Cable Clutch Models). You should review these instructions before installing the product as they contain important information regarding your FBI EZ Install Handlebar Kit. Please keep instructions for future reference.

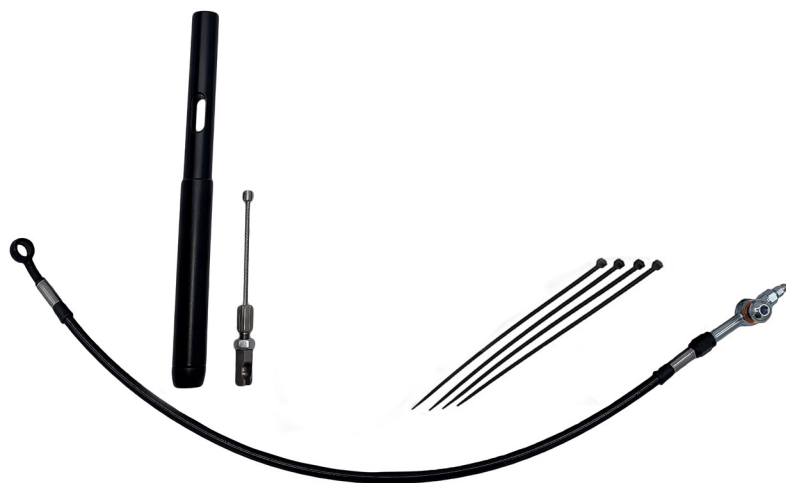
EZ Install Wired Handlebar Kit- 21-23 Street Glide/Electra Glide/Tri Glide Models

Items included in this kit:

- EZ Install Wired Handlebars
- These handlebars are pre-installed with a twist grip sensor, can bus wire harness for controls, and 1 pre-installed rope to accommodate heated grips.
- Clutch cable extension (12” bars will include a 4” extension)(14” bars will include a 6” extension) (16” bars will include a 8” extension)
- Brake line extension
- Zip ties
- Recommended Item sold separately: Clutch Adjustor Upgrade, Part Number 109811 for 2021 models, Part Number 109822 for 2022-2023 models

WARNING: The riders 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.

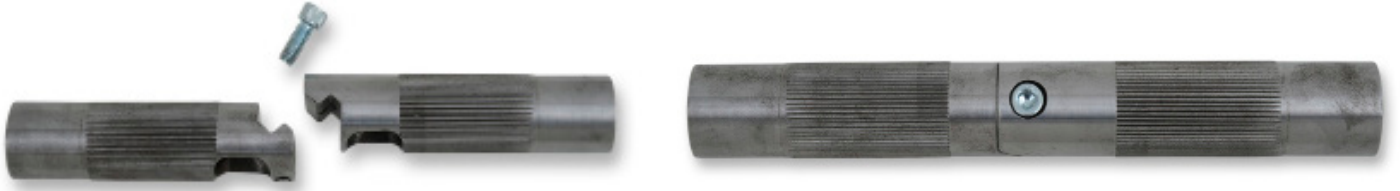
Test brakes at low speed. If brakes are not operating properly, testing at high speeds can cause loss of control, which could result in death or serious injury.



Tools & Supplies Needed

T25 Torx
T27 Torx
1/2 Socket
9/16 Socket
Phillips Screwdriver
Small Pick
5/32 Allen
Side Cutters
12mm Wrench
1/4 Allen Socket
T40 Torx
Needle Nose Pliers
Tank and Front Fender Cover
Torque Wrench
7/16 Wrench
3/8 Wrench

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



2. Cover the fuel tank and front fender to protect from dropped parts and to prevent damage to paint.

3. Remove the fairing cap.



4. Remove the outer fairing and windshield.

5. Remove turn signals.

6. Remove 4 fairing side bolts.



7. Unplug handlebar wires and throttle wires.

8. Remove lower fairing triple tree cover.

9. Lift the fairing up and tip it forward to gain access to the handlebar clamp.



10. Cut the 2 zip ties on the handlebar risers that hold the brake and clutch line. Cut 1 zip tie that holds the clutch and brake line together.

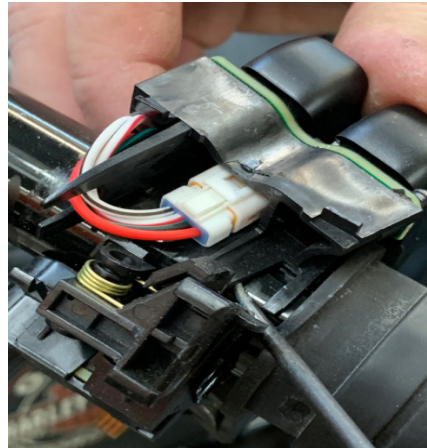


11. Remove odometer button by pushing up and sliding out.



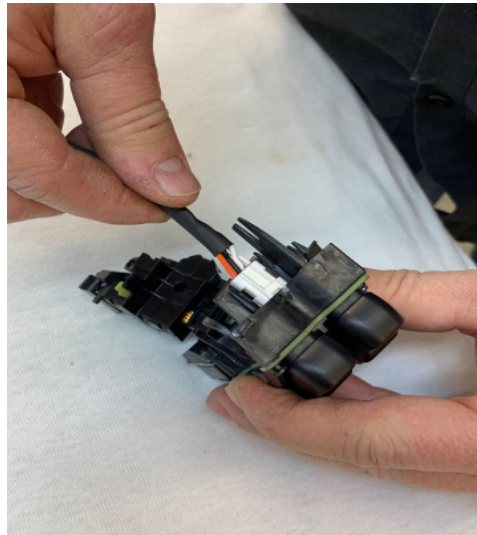
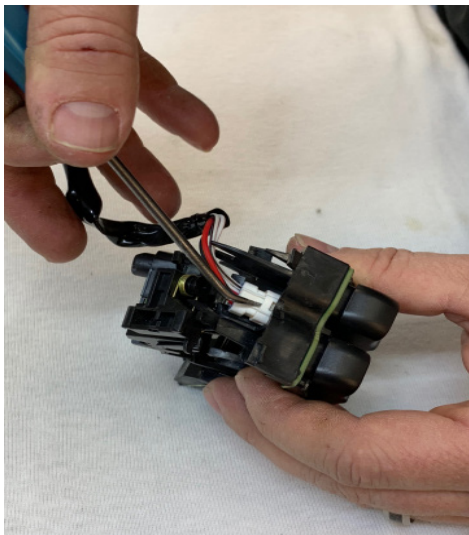
12. Remove master cylinder clamps and lay master cylinders on top of covered tank.

13. Remove switch housings and switches. Use a pick to release lock and remove from bike.



14. Remove stock handlebars.

15. Plug new wire extensions into switches on both sides. Remove stock wiring and install supplied wires.

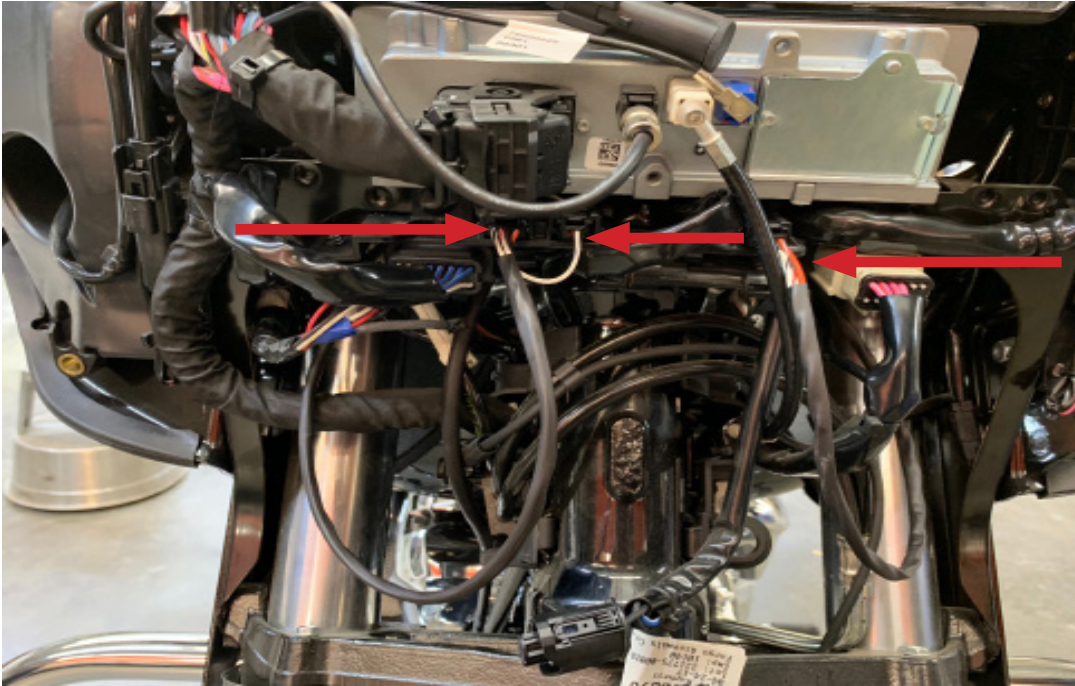


16. Make sure throttle tube notches are lined up with the handlebar.

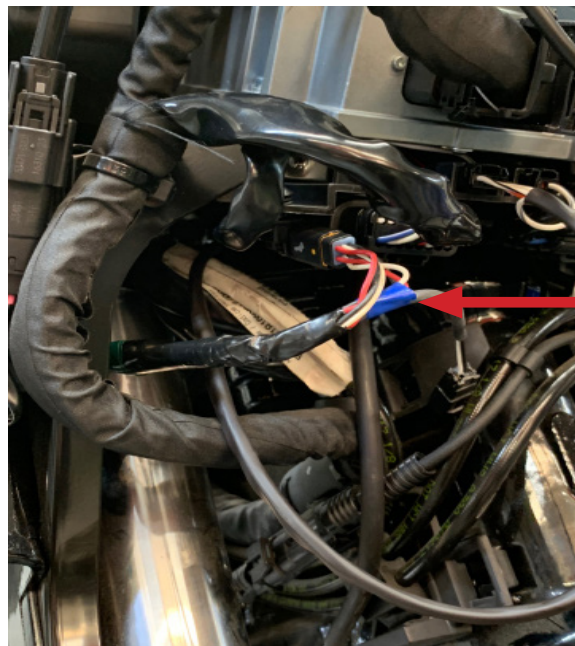


17. If using internal wired heated grips, use the supplied rope in the left handlebar to pull the heated grip wires through the bars. If no internal wired heated grips are being used, remove the rope. Install switches, housings, and grips. Make sure the throttle grip turns freely.

18. Install handlebars on bike and route wiring to stock location. Torque bolts to 18-22 ft. lbs.



Stock handlebar wiring location



Stock throttle by wire location

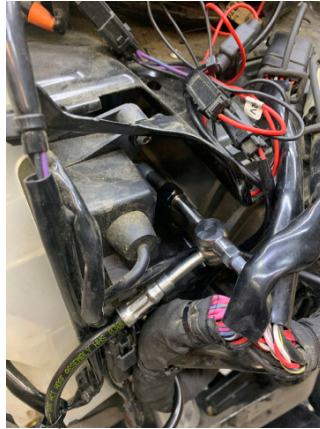
19. Reinstall inner fairing to stock locations.

20. Reinstall brake master cylinder.

21. Prepare to install brakeline extension. Unbolt Stock Line from master cylinder. Then route stock line under handlebars into the front fairing, next to the radio. (See photos below) Now, use the supplied hydraulic extension, and route it from inside the fairing, next to the radio, under the handlebars, up to the master cylinder and re-attach to master cylinder. Reuse existing crush washers on master cylinder. Next, connect the supplied brakeline extension to the stock brakeline with our banjo bolt manifold system. (See photo) Bleed the new line extension at the supplied banjo speed bleeder manifold inside of the fairing. Please follow the below bleeding steps on step number 22.



Brake Line Routing



Brake Line Connection



Clutch Line Connection

22. 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. Re-tighten bleeder screw.
5. Apply brake/clutch and check for any leaks.

23. Reinstall inner fairing bolts and fairing cap.

24. Reinstall turn signals, outer fairing and windshield.

25. You may need to loosen the banjo bolt on the brake master cylinder to reposition the line after installing taller handlebars.

26. After the handlebar installation is complete, follow this last step:

- **Set the right handlebar switch to run. Turn ignition switch to on. You will hear the fuel pump cycle on and off. Wait 30 seconds and turn ignition switch to off. Wait for the signals to flash for 30 seconds. Repeat this process 2 more times. This will reset the throttle body and make it in sync with the grip sensor. The bike is now ready to start.**

27. Locate the clutch cable adjuster on the right side of the frame down tube.



28 . Remove the cable clips from the frame. They will be reused.



29. Slide the adjuster tube up.



30. Use a straight screwdriver to remove the red clip. Then collapse the adjuster.



31. Rotate the yellow tube, and locate the little tab. Then separate it from the lower cable using the straight screwdriver.



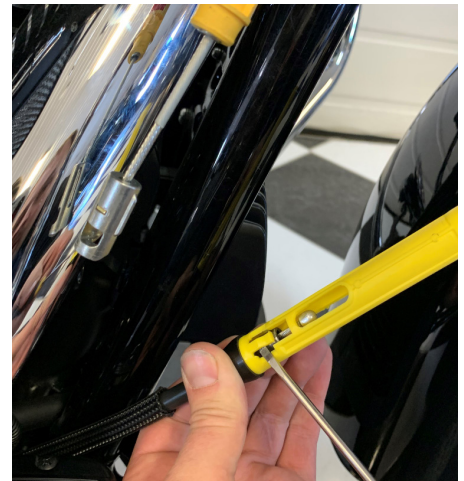
32. Push the wire through from the backside using the screwdriver.



33. The cable is now split, as pictured.



34. Remove the yellow plastic piece by spreading open the two small tabs on each side.



35. This yellow part will not be reused.



36. Remove the lower portion from the tube extension, and slide it over the stock cable.



37. Use the two wrenches to loosen the adjuster on the wire extension. Slip the wire extension over the wire, hand tighten the nuts, bring the adjuster nut down, then tighten with the wrenches.



38. Slide the tube extension over the wire.



39. Push the upper clutch cable up the frame, and re-install into the new clutch extension tube.



40. Connect the upper cable to the lower cable, through the oval opening in the black tube.



41. Now you can adjust the clutch cable and reinstall the black tube cover.



42. After you slide the cover back on, reinstall the frame clips.

