

Viking Iron Born 12" Voyage Handlebar Installation Guide:



Parts:

- i Handlebar x1
- ii Handlebar Bushings x4

Note:

- i The safety of the rider and passengers is dependent on the accurate installation of this handlebar. Follow your motorcycle owner's service manual procedures. If the installation is beyond your ability or you lack the necessary tools, have a professional mechanic do the installation. The handlebar's improper installation could result in death or serious harm.
- ii Handlebar installation varies according to the bike.
- iii For proper installation, all touring models require the purchase of separate parts or accessories.
- iv Touring models equipped with an adhered left-side hand grip require a new grip that is sold separately.
- v 2013 and older Touring models require separate purchase of a twist grip sensor kit, two small (Part No. 755), and two large hold plugs (Part No. 732).

Instructions:

Step 1:

Original Handlebar Removal

Note:

Throughout the process, record wiring, clutch, and brake line positioning to ensure proper reinstallation when installing the new handlebar. Check your motorcycle owner's service manual for the following steps.

For Street Glide (FLHX models), Handlebar-mounted mirrors are required for proper installation, sold separately.

- i Remove outer fairing.
- ii Remove fairing cap.
- iii Drain the clutch fluid from the clutch reservoir and lines.
- iv Remove the radio or storage box.
- v Disconnect the clutch cable from the clutch lever.
- vi Remove the front brake master cylinder and clutch lever assemblies.
- vii Disconnect handlebar control wiring from the main harness connectors inside the fairing.
- viii Remove both left and right side switch housing assembly and wire harness.
- ix Remove the original hand grip from the handlebar.
- x Remove and safely keep the twist grip sensor.
- xi Remove the handlebar upper clamp and risers to finally take the handlebar off.
- xii Remove riser attachment screws, rubber bushings, washers, compression sleeves.
- xiii Replace rubber bushings with provided chrome bushings (ii) Then install back the washers and riser screws. Tighten until it is snug.
- xiv Remove wirings from the socket housings.
- xv Create a distinct wire group by wrapping the wire terminal ends from each source with tape. Wrap each group such that it may easily pass through the new handlebar and the wire entrance hole at the handlebar switch location.

Step 2:

New Handlebar Internal Wiring

Note:

Route wire as per your motorcycle owner's service manual for the following steps.

For Touring Models 2013 and older, the twist grip sensor must be replaced with a new sensor.

For Touring Models 2014 and newer, reuse the OEM twist grip sensor assembly.

- i Cut three strings long enough to span from the new handlebar end to the lower center wire slot, with extra length extending beyond the handlebar openings.
- ii Attach a weight to one end of each string, then feed two weighted ends into the right handlebar end. Pull them through the center wire slot. Remove the weights.
- iii Tape the twist grip sensor wire terminals together and insert them into the right handlebar end.
- iv Tape the right switch wire hole string to the right switch wire bundle.
- v Apply lubricant to the right switch and twist the grip sensor wire bundles.
- vi Insert twist grip sensor wires into the right handlebar end. Route right switch wires through the switch housing. Align the twist grip sensor tabs with the handlebar slots.
- vii Pull taped wire bundles through the bottom center hole in the handlebar.
- viii Tape the left side switch wire hole string to its bundle.
- ix Guide the left switch wires through the switch housing. Insert the wire bundle into the left switch wire hole.
- x Loosely secure the brake and clutch lever clamps.
- xi Loosely attach handlebar switch housings.
- xii Remove tape from wire bundle ends.
- xiii Test for electrical continuity between the handlebar and each wire. Proceed with the installation if there's no continuity.

Step 3:

Installation

Note:

The handlebar upper clamp intentionally creates a gap behind the handlebar riser upon installation.

Incorrect alignment of handlebars can contact the fuel tank turning left and right.

Separate wire harness housings from fairing supports. Then, fasten the wiring with a cable strap after connecting the pin and socket housings to secure it within the fairing.

- i Center the new handlebar on risers with equal-knurled areas on the outboard side.
- ii Loosely install the original handlebar upper clamp with saved screws.
- iii Position handlebar:
 - 2013 and older Models: Rotate forward until contacting the inner fairing, then back for a gap.
 - 2014 and newer Models: Align approximately, snug fasteners, adjust, and secure.
- iv Partially tighten only the front two upper clamp screws.
- v Place each socket terminal from the left side switch wire bundle into its corresponding cavity in the previously removed socket housing.
- vi Connect the handlebar switch wire socket housings to the pin housings inside the nacelle.
 - 2014 and newer Models: Identify and connect the stock twist grip sensor connectors within the fairing. Secure as previously noted.
 - 2013-Earlier Models: Use PVC tubing and the six-way black Molex pin housing from the Twist Grip Sensor Kit (purchased separately). Slide the tubing over all wires from the twist grip sensor.

- vii Insert each pin terminal from the twist grip sensor into the correct cavity of the pin housing:
 - a. Black wire to cavity 1
 - b. White wire to cavity 2
 - c. Red wire to cavity 3
 - d. Black wire to cavity 4
 - e. White wire to cavity 5
 - f. Red wire to cavity 6
- viii Connect the six-way black Molex pin housing from the twist grip sensor to the black six-way socket housing inside the fairing.
- ix Turn the handlebar to full left and right lock, ensuring no contact or binding. Adjust the handlebar angle if needed for clearance.
- x Tighten riser screws.
- xi Tighten the upper handlebar clamp screws.
- xii Install a new or original left handlebar grip following the provided instructions or service manual.
- xiii Adjust the switch housing and clutch lever assembly for rider comfort.
- xiv Tighten the top and then bottom clutch-lever clamp screws.
- xv Tighten the lower and then upper switch housing screws.
- xvi Install a new or original right grip/throttle sleeve. Refer to the service manual.
Adjust the switch housing and brake lever assembly for rider comfort. Ensure the brake master cylinder is approximately level when the
- xvii vehicle is on the side stand and the bars are turned to the left steer-stop.
- xviii Tighten first the top, then the bottom brake lever clamp screws.
- xix Tighten first the lower, then the upper switch housing screws.
- xx Check that the right grip/throttle sleeve moves freely without binding on the handlebar or switch housing.

Step 4:

Final Assembly

Note:

Replace brake line gaskets. Re-using original gaskets can cause brake failure and loss of vehicle control, which could result in death or serious injury.

Avoid any sort of leakage.

- i Inspect and install new brake line as per motorcycle owner service manual.
- ii Install a new clutch cable or hydraulic line with the provided kit. Bleed hydraulic line if installed, following the manual.
- iii For 2013 and older Models with Radio: Install per the service manual.
For 2013 and older Models without Radio: Install storage box per the service manual.
For 2014 and newer Models: Lift and tip the inner fairing forward. Install fairing per service manual using removed fasteners.
- iv Position PVC tubing on twist grip sensor wires to prevent chafing against heat sink fins on the radio (if present) and sharp edges of the radio or storage box bracket inside the fairing.
- v Install the fairing cap following the service manual.
- vi Install outer fairing per the service manual.
- vii For FLHX Models: Install handlebar-mounted mirrors. See the service manual.

Safety Check!

- Check that the steering is smooth and has no interference. Improper installation could result in serious injury or even death.
- Check wires, clutch cables, and brake lines do not pull tight when handlebars are turned.
- Check Brakes.

Warnings!

- Do not install if unsure about any of the steps.
- In case of confusion, consult a certified mechanic.
- Viking Bags is not responsible for any damage or injury resulting from improper use of the product.
- No part of the product should obstruct the functioning of your bike.