



Installation instructions for part 99-9613

Harley-Davidson 1998-2013

(FL models with fairings)

99-9613

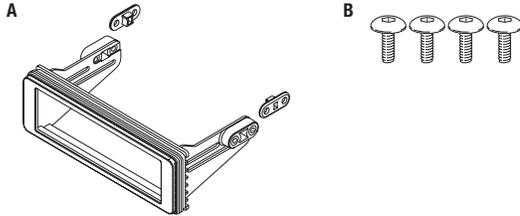


KIT FEATURES

- ISO DIN radio provision
- ASWC-1 included, for retention of handlebar controls
- 44-UA20 antenna included

KIT COMPONENTS

- A) Radio housing with rubber gasket
- B) (4) 1/2" long button-head cap screws
- C) Wiring harness (not shown)



WIRING & ANTENNA CONNECTIONS

- Wiring Harness: • Included
- Antenna: • 44-UA20 included
- Steering wheel control interface: • Included

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TOOLS REQUIRED

- Panel removal tool
- Phillips screwdriver
- Socket wrench: (T-25 Torx, T-27 Torx, 1/2", 3/16 hex)

CAUTION! All accessories, switches, climate controls panels, and especially air bag indicator lights must be connected before cycling the ignition. Also, do not remove the factory radio with the key in the on position, or while the vehicle is running.

REV 1/24/2017 INST99-9613

Fairing Disassembly

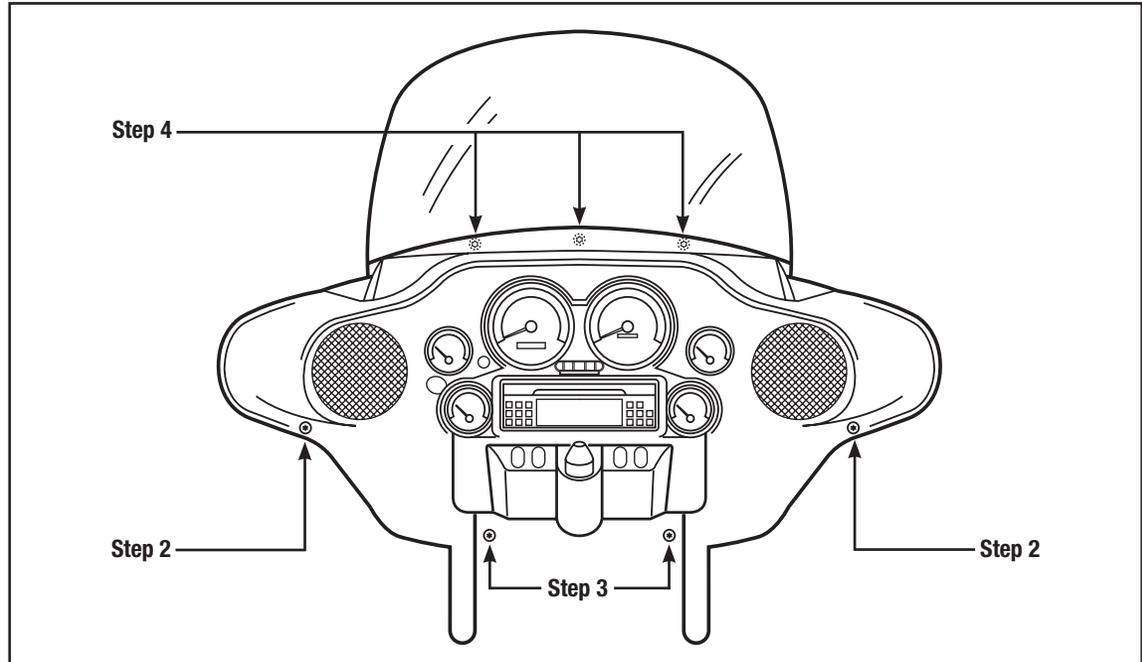
FLH/Batwing models:

1. Cover the front fender.
2. Remove the (2) T-27 Torx bolts from the inner fairing (under mirrors). (Figure A, step 2)
3. Remove the (2) T-27 Torx bolts from the outer edges of the inner fairing near the fork tubes (facing forward). (Figure A, step 3)
4. Remove the (3) T-27 Torx bolts from the bottom edge of the windshield. (Figure A, step 4)

NOTE: The windshield and fairing will be loose once these screws are removed. Use extreme caution not to damage the fairing or windshield.

5. Remove the windshield taking caution that the outer fairing is loose.

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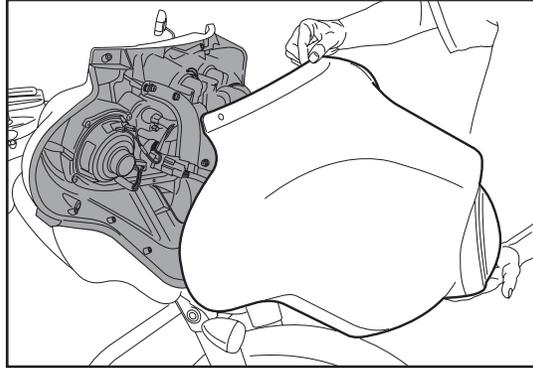
(Figure A)

Fairing Disassembly

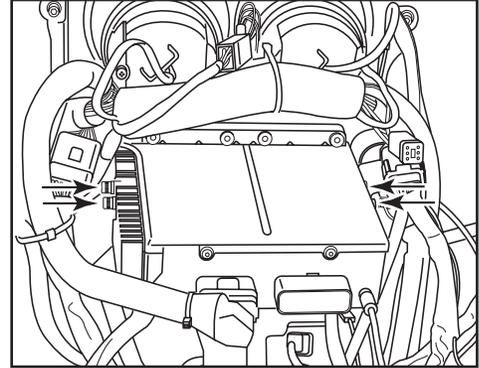
FLH/Batwing models: (cont.)

6. Lift away and unplug the headlight to remove the outer fairing. (Figure B)
7. Extract the (2) 3/16" Allen bolts from each side of the radio housing. (Figure C)
8. Remove the factory radio.

Continue to Kit Assembly



(Figure B)



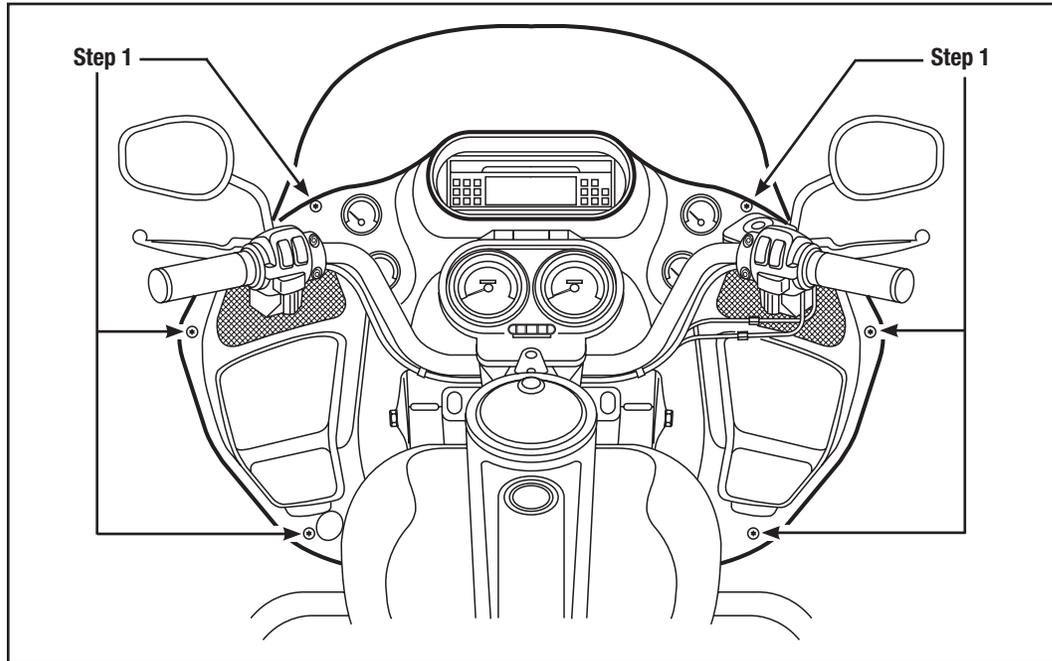
(Figure C)

Fairing Disassembly

Roadglide/Sharknose models

1. Loosen the (6) T-25 Torx bolts from the bottom, middle and top of the left and right sides of the inner fairing. (Figure A)

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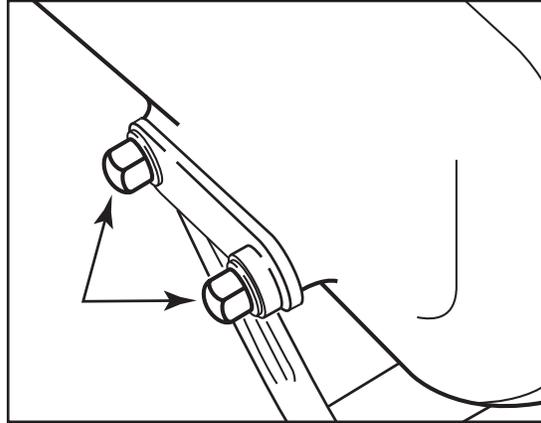
(Figure A)

Fairing Disassembly

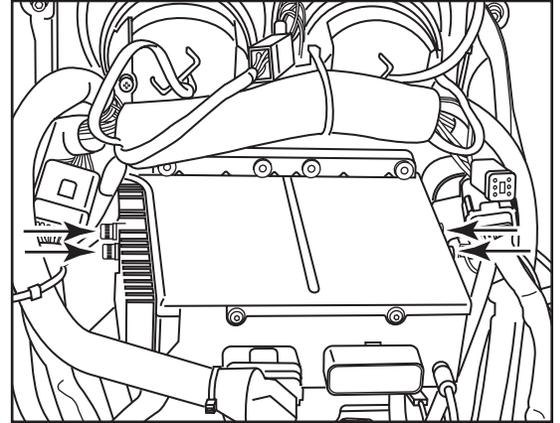
Roadglide/Sharknose models (cont.)

2. Use a 1/2" socket or box wrench to remove the (2) acorn nuts that hold each turn signal at the lower fairing. Let the signals hang loose. (Figure B)
3. Lift away the fairing, unplug the headlights, and then remove.
4. Remove the (2) 3/16" Allen bolts from each side of the radio housing. (Figure C)

Continue to Kit Assembly



(Figure B)



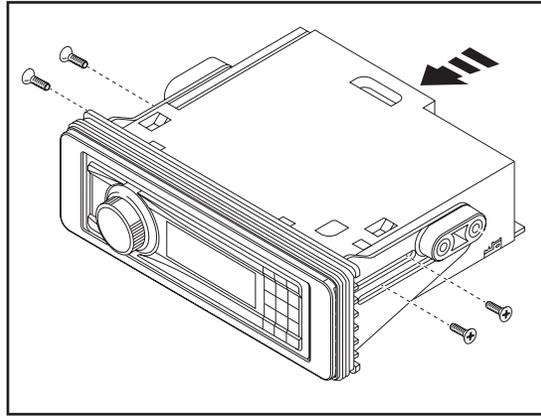
(Figure C)

Kit Assembly

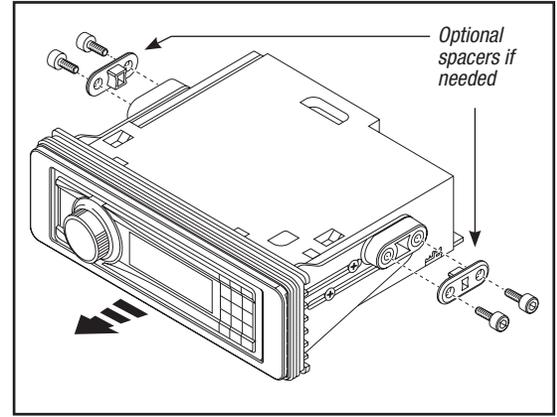
ISO DIN radio provision

1. Remove the metal DIN sleeve and trim ring from the aftermarket radio.
2. Slide the radio into the *radio housing with rubber gasket* and secure with the screws supplied with the radio. (Figure A)
3. Insert the radio and kit assembly into the factory radio opening, from the back side of the inner fairing. (Figure B)
4. Secure with the factory hardware, or with the (4) 1/2" long button-head cap screws supplied. (Figure B)

Continue to Wiring Instructions



(Figure A)



(Figure B)



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Wiring Instructions

From the wiring harness to the aftermarket radio:

- Connect the **Black** wire to the ground wire.
- Connect the **Yellow** wire to the battery wire.
- Connect the **Red** wire to the accessory wire.
- Connect the **White** wire to the left front positive speaker output.
- Connect the **White/Black** wire to the left front negative speaker output.
- Connect the **Gray** wire to the right front positive speaker output.
- Connect the **Gray/Black** wire to the right front negative speaker output.

12-pin pre-wired ASWC-1 harness:

This harness is to be used along with the ASWC-1 (provided) to retain handlebar audio controls. Please note that “handlebar control” is also referred to as “steering wheel control”.

- For the radios listed below, connect the included *female 3.5mm connector with stripped leads*, to the male 3.5mm SWC jack. Any remaining wires tape off and disregard:
 - **Eclipse:** Connect the steering wheel control wire, normally **Brown**, to the **Brown/White** wire of the connector. Then connect the remaining steering wheel control wire, normally **Brown/White**, to the **Brown** wire of the connector.
 - **Metra OE:** Connect the steering wheel control Key 1 wire (**Gray**) to the **Brown** wire.

- **Kenwood or select JVC with a steering wheel control wire:** Connect the **Blue/Yellow** wire to the **Brown** wire.
- **Note:** If your **Kenwood** radio auto detects as a JVC, manually set the radio type to **Kenwood**. See the instructions under changing radio type.
- **XITE:** Connect the steering wheel control SWC-2 wire from the radio to the **Brown** wire.
- **Parrot Asteroid Smart or Tablet:** Connect the 3.5mm jack into the AX-SWC-PARROT (sold separately), and then connect the 4-pin connector from the AX-SWC-PARROT into the radio.

Note: The radio must be updated to rev. 2.1.4 or higher software.

- **Universal “2 or 3 wire” radio:** Connect the steering wheel control wire, referred to as Key-A or SWC-1, to the **Brown** wire of the connector. Then connect the remaining steering wheel control wire, referred to as Key-B or SWC-2, to the **Brown/White** wire of the connector. If the radio comes with a third wire for ground, disregard this wire.

Note: After the interface has been programmed to the vehicle, refer to the manual provided with the radio for assigning the SWC buttons. Contact the radio manufacturer for more information.

- **For all other radios:** Connect the 3.5mm jack into the jack on the aftermarket radio designated for an external steering wheel control interface. Please refer to the aftermarket radios manual if in doubt as to where the 3.5mm jack goes to.

Continue to Final Assembly

Final Assembly

1. Connect the 44-UA20 (provided), and complete all necessary connections to the radio, but do not connect the ASWC-1 just yet.
2. Turn the key to ignition and test the radio for proper operation.
3. Remove the key and connect the ASWC-1.
4. Program the ASWC-1:
 - a. Turn the ignition on, the LED will start flashing rapidly.
Note: *If the LED did not start flashing rapidly, press the reset button for 3 seconds.*
 - b. Press and hold the Volume Up button on the handlebar until the L.E.D stops flashing rapidly.
 - c. After approximately 2 seconds there will be a series of 7 Green flashes, some short, and some long. The long flashes represent the wires that are connected to the ASWC-1.
Tip: *Knowing this will help to troubleshoot, if need be.*
 - d. The LED will pause for another 2 seconds, and then flash **Red** up to 17 times depending on which radio is connected to the interface. Refer to the L.E.D. feedback section for information.
 - e. This is the end of the auto detection stage. If the ASWC-1 detected the vehicle and the radio successfully, the L.E.D. will light up solid.
 - f. Test the handlebar controls for proper operation. Refer to the "Handlebar Control Settings" section before proceeding onto the next step.
5. Reassemble the fairing in reverse order of disassembly.

Handlebar Control Settings

L.E.D. Feedback

The (17) **Red** L.E.D. flashes represent which brand radio the ASWC-1 is connected to. Each flash represents a different radio manufacturer. For example, if you are installing a JVC radio, the ASWC-1 will flash **Red** (5) times, and then stop. Following is a legend that dictates which radio manufacturer corresponds to which flash.

L.E.D. Feedback Legend

1 flash - Eclipse (Type 1) †	7 flashes - Alpine *	12 flashes - Eclipse (Type 2) †
2 flashes - Kenwood ‡	8 flashes - Visteon	13 flashes - LG
3 flashes - Clarion (Type 1) †	9 flashes - Valor	14 flashes - Parrot **
4 flashes - Sony / Dual	10 flashes - Clarion (Type 2) †	15 flashes - XITE
5 flashes - JVC	11 flashes - Metra OE	16 flashes - Philips
6 flashes - Pioneer / Jensen		17 flashes - JBL

* **Note:** *If the ASWC-1 flashes Red (7) times, and you do not have an Alpine radio connected to it, that means the ASWC-1 does not detect a radio connected to it. Verify that the 3.5mm jack is connected to the correct steering wheel jack/wire in the radio.*

** **Note:** *The AX-SWC-PARROT is required (sold separately). Also, the Parrot radio must be updated to rev. 2.1.4 or higher through www.parrot.com.*

† **Note:** *If you have a Clarion radio and the handlebar controls do not work, change the radio type to the other Clarion radio type; same for Eclipse. The following section explains how to do this.*

‡ **Note:** *If you have a Kenwood radio and the L.E.D. feedback comes back as showing as a JVC radio, change the radio type to a Kenwood. . The following section explains how to do this.*

Continued on the next page



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Handlebar Control Settings (Cont)

Attention: *Axxess Updater App can also be used to program the following (3) subsections as well, pending that the interface has been initialized and programmed.*

Radio Type

If the L.E.D. flashes do not match the radio that is connected, change the radio type.

1. After (3) seconds of turning the key on, press and hold the Volume-Down button on the handlebar until the L.E.D. in the ASWC-1 goes solid.
2. Release the Volume-Down button; the L.E.D. will go out indicating we are now in Changing Radio Type mode.
3. Refer to the Radio Legend to know which radio number you would like to have programmed.
4. Press and hold the Volume-Up button until the L.E.D. goes solid, and then release. Repeat this step for the desired radio number.
5. Once the desired radio number has been selected, press and hold the Volume-Down button on the handlebar until the L.E.D. goes solid. The L.E.D. will remain on for about (3) seconds while it stores the new radio information.
6. Once the L.E.D. goes off, the Radio Type mode will then end. You can now test the handlebar controls.

Note: *If at any time the user fails to press any button for a period longer than ten seconds, this process will abort.*

Radio Legend

1 - Eclipse (Type 1)	6 - Pioneer/Jensen	10 - Clarion (Type 2)	13 - LG
2 - Kenwood	7 - Alpine	11 - Metra OE	14 - Parrot
3 - Clarion (Type 1)	8 - Visteon	12 - Eclipse (Type 2)	15 - XITE
4 - Sony / Dual	9 - Valor		16 - Philips
5 - JVC			17 - JBL

Continued on the next page



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Handlebar Control Settings (Cont)

Remap Buttons

The interface has the ability to change the button assignment for the handlebar control buttons, except Volume-Up and Volume-Down. Follow the steps below to remap the handlebar control buttons.

1. Within the first twenty seconds of turning the ignition on, press and hold the Volume-Up button on the handlebar until the L.E.D. goes solid.
2. Release the Volume-Up button, the L.E.D. will then go out; The Volume-Up button has now been programmed.
3. Follow the list in the Button Assignment Legend to reference the order in which the handlebar control buttons need to be programmed.

Note: *If the next function on the list is not present on the handlebar, press the Volume-Up button for (1) second until the L.E.D. comes on, and then release the Volume-Up button. This will tell the ASWC-1 that this function is not available, and it will move on to the next function.*

4. To complete the remapping process, press and hold the Volume-Up button on the handlebar until the L.E.D. in the ASWC-1 goes out.

Button Assignment Legend

- | | |
|--------------------|------------------------|
| 1 - Not allowed | 10 -Band |
| 2 - Not allowed | 11 -Play/Enter |
| 3 - Seek-Up/Next | 12 -PTT (push to talk) |
| 4 - Seek-Down/Prev | 13 -On-Hook |
| 5 - Mode | 14 -Off-Hook |
| 6 - Mute | 15 -Fan-Up * |
| 7 - Preset-Up | 16 -Fan-Down * |
| 8 - Preset-Down | 17 -Temp-Up * |
| 9 - Power | 18 -Temp-Down * |

*** Not applicable in this application**

Note: *The aftermarket radio may not have all of these commands. Please refer to the manual provided with the radio, or contact the radio manufacturer, for specific commands recognized by that particular radio.*



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Handlebar Control Settings (Cont)

Dual Assignment (long button press)

The ASWC-1 has the capability to assign two functions to a single button, except Volume-Up and Volume-Down. Follow the steps below to program the button(s) to your liking.

Note: *Seek-Up and Seek-Down come programmed as Preset-Up and Preset-Down for a long button press.*

1. Turn on the ignition but do not start the vehicle.
2. Press and hold down the handlebar control button that you want to assign a long press function to, for ten seconds, or until the L.E.D. flashes rapidly. At this point release the button; the L.E.D. will then go solid.
3. Press and release the Volume-Up button the number of times corresponding to the new button number selected. Refer to the Dual Assignment Legend. The L.E.D. will flash rapidly while the Volume-Up button is being pressed, and then go back to a solid L.E.D. once released. Go to the next step once the Volume-Up button has been pressed the desired number of times.

Caution: *If more than ten seconds elapses between pressing the Volume-Up button, this process will abort, and the L.E.D. will go out.*

4. To store the long press button in memory, press the button that you assigned a long press button to (the button held down in Step 2). The L.E.D. will now go off indicating the new information has been stored.

Note: *These steps must be repeated for each button you would like to assign a dual purpose feature to. To reset a button back to its default state, repeat Step 1, and then press the Volume-Down button. The L.E.D. will go off, and the long press mapping for that button will be erased.*

Dual assignment legend

- | | |
|--------------------|------------------|
| 1 - Not allowed | 10 - Band |
| 2 - Not allowed | 11 - Play/Enter |
| 3 - Seek-Up/Next | 12 - PTT |
| 4 - Seek-Down/Prev | 13 - On-Hook |
| 5 - Mode/Source | 14 - Off-Hook |
| 6 - ATT/Mute | 15 - Fan-Up |
| 7 - Preset-Up | 16 - Fan-Down * |
| 8 - Preset-Down | 17 - Temp-Up * |
| 9 - Power | 18 - Temp-Down * |

*** Not applicable in this application**



Installation instructions for part 99-9613



REV. 1/24/2017 INST99-9613

IMPORTANT

If you are having difficulties with the installation of this product, please call our Tech Support line at **1-800-253-TECH**. Before doing so, look over the instructions a second time, and make sure the installation was performed exactly as the instructions are stated. Please have the vehicle apart and ready to perform troubleshooting steps before calling.



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