Harley-Davidson (FL models with a fairing) (†)
1998-2013

(†) Without factory amp, two speaker systems only

KIT FEATURES

• ISO DIN radio provision with pocket
• ASWC-1 interface in water resistant enclosure included to retain handlebar audio 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)
• D) ASWC-1 interface in water resistant enclosure (not shown) • E) 44-UA20 antenna (not shown)
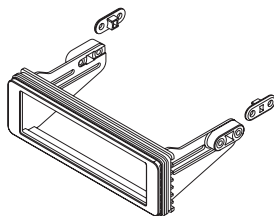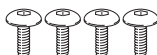

TABLE OF CONTENTS

WIRING & ANTENNA CONNECTIONS

Wiring Harness: Included
Antenna: 44-UA20 included
Handlebar controls: ASWC-1 in water resistant enclosure included

TOOLS REQUIRED

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

Attention! **Let the vehicle sit with the key out of the ignition for a few minutes before removing the factory radio. When testing the aftermarket equipment, ensure that all factory equipment is connected before cycling the key to ignition.**

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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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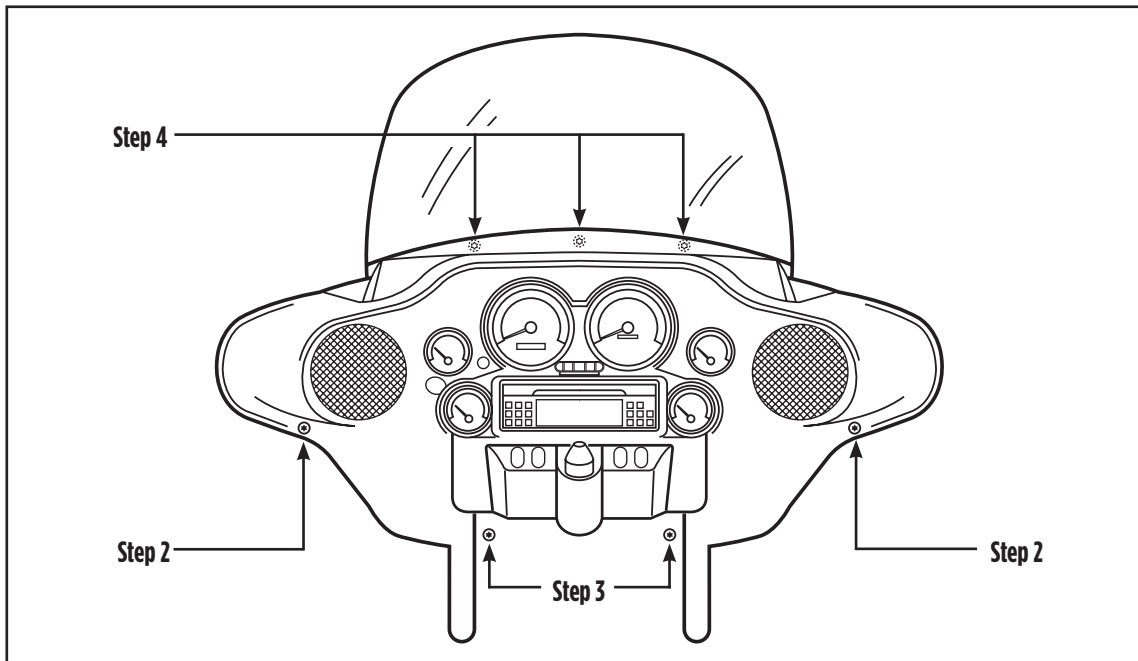
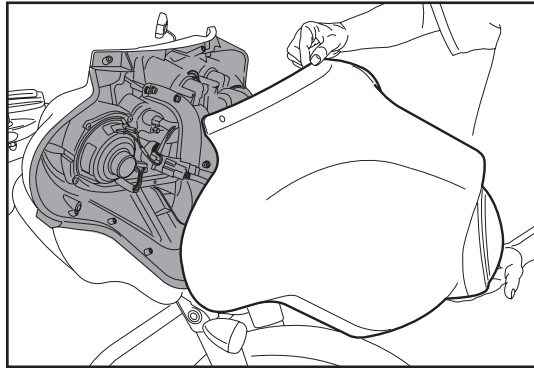*(Figure A)*

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
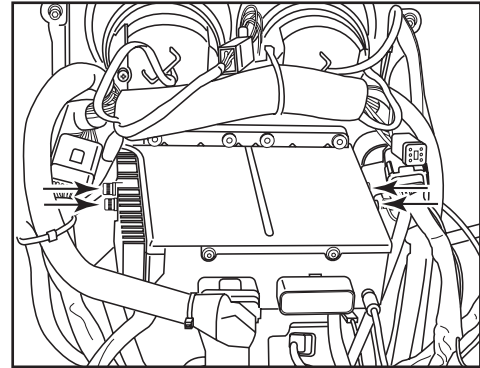
(Figure B)

(Figure C)

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)

   Continued on the next page

Step 1   Step 1
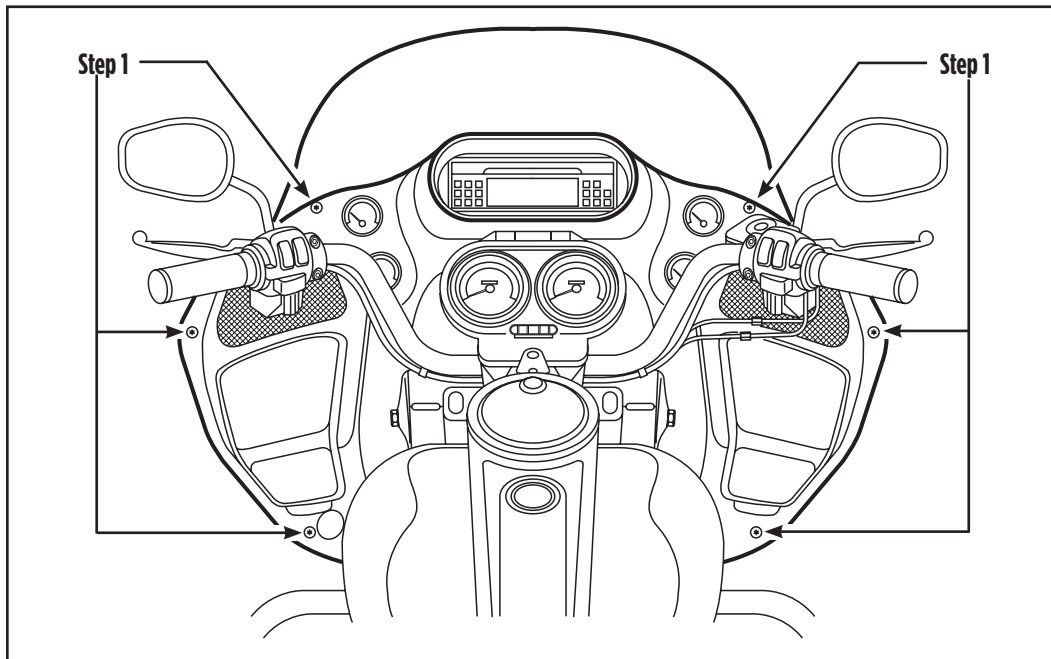
(Figure A)

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
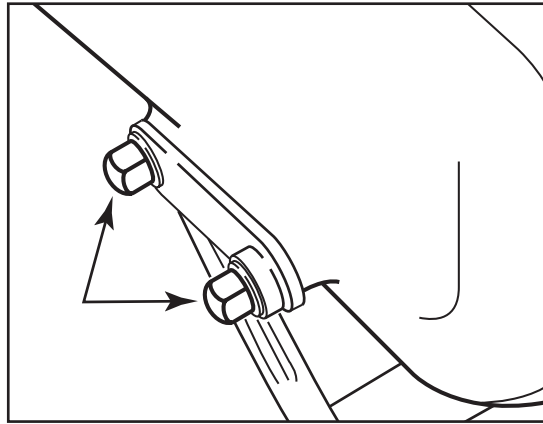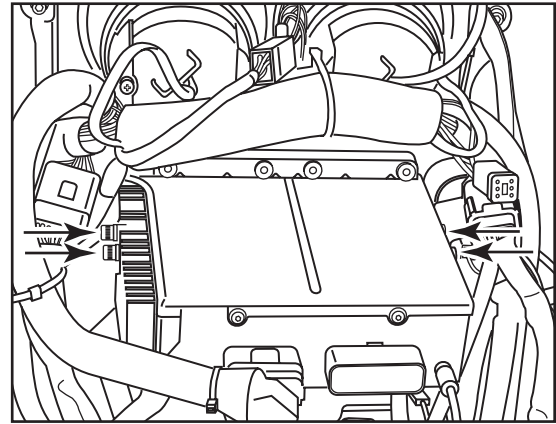
(Figure B)

(Figure C)

1. Remove the metal DIN sleeve and trim ring from the aftermarket radio.

2. Slide the radio into the **radio housing** 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)

Optional spacers if needed

(Figure B)

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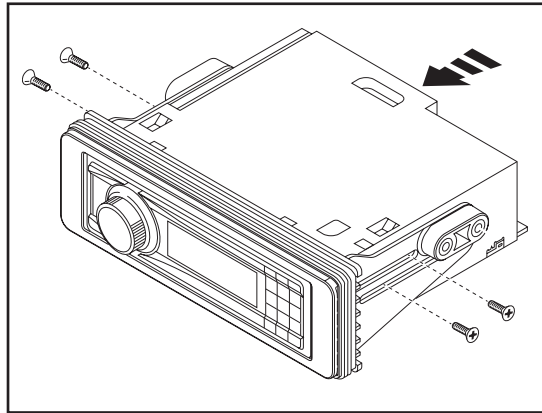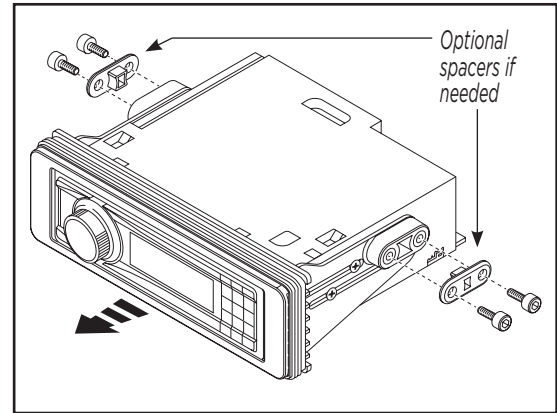
WIRING INSTRUCTIONS

From the wiring harness provided 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.

ASWC-1 INSTRUCTIONS

1. Push the **12-pin ASWC-1 harness** into the **enclosure cap**.

2. Connect the **12-pin ASWC-1 harness** to the **circuit board** within the enclosure, then clip the cap/harness onto the circuit board enclosure.

3. Remove the rubber cover from the enclosure during programming to see the LED for feedback. After the interface has been programmed and tested, install the cover back onto the opening of the housing.

ASWC-1 INSTRUCTIONS *(CONT)*

- **For the radios listed below:** Connect the **3.5mm adapter** provided 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

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.

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		16 flashes - Philips
6 flashes - Pioneer / Jensen	11 flashes - Metra OE	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 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).

† 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.

Attention: Axxess Updater App can also be used to program the following (3) sub-sections 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

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.

1 - Not allowed

2 - Not allowed

3 - Seek-Up/Next

4 - Seek-Down/Prev

5 - Mode

6 - Mute

7 - Preset-Up

8 - Preset-Down

9 - Power

10 - Band

11 - Play/Enter

12 - PTT (push to talk)

13 - On-Hook

14 - Off-Hook

15 - Fan-Up *

16 - Fan-Down *

17 - Temp-Up *

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.

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

2 - Not allowed

3 - Seek-Up/Next

4 - Seek-Down/Prev

5 - Mode/Source

6 - ATT/Mute

7 - Preset-Up

8 - Preset-Down

9 - Power

10 - Band

11 - Play/Enter

12 - PTT

13 - On-Hook

14 - Off-Hook

15 - Fan-Up

16 - Fan-Down *

17 - Temp-Up *

18 - Temp-Down *

* Not applicable in this application