



INSTRUCTIONS

94100151

2022-10-28



SECONDARY AMPLIFIER INSTALLATION KIT (PN 76000975)

Table 1.

Harley-Davidson Audio Powered by Rockford Fosgate®		
Kits	Suggested Tools	Skill Level
76000975	Safety Glasses, Torque Wrench, Power Drill, Drill Bit Set, Masking Tape, Deburring Tool, Isopropyl Alcohol, Clean Shop Rags, 2 1/2-in. Hole Saw, Molex de-pin extraction tool (2021 and later FLHXSE / FLTRXSE models)	

KIT CONTENTS

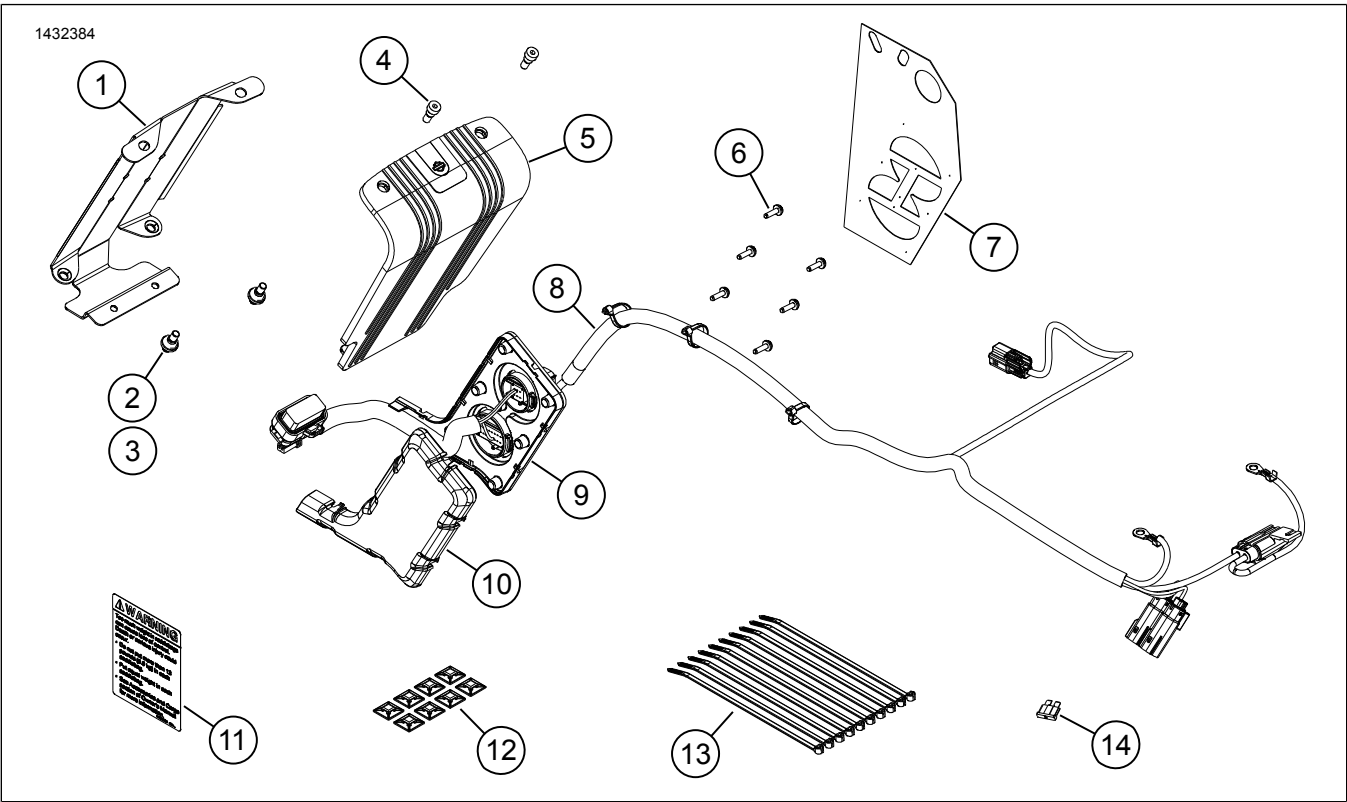


Figure 1. Service Parts: Secondary Amplifier Kit

Table 2. Service Parts List: Secondary Amplifier Kit

☒	Item	Qty	Description	Part No.	Notes
☐	1	1	Amplifier mount bracket, right saddlebag	76001004	
☐	2	2	Grommet, amplifier mount bracket	12100052	
☐	3	2	Stud pin, 1/4-20	12600305	
☐	4	2	Screw, socket head, 1/4-20	10201064	
☐	5	1	Amplifier cover	76000994	
☐	6	6	Screw, Pan Head TORX™, T15	10200065	
☐	7	1	Drill template	76001009	
☐	8	1	Saddlebag harness, external	Not sold separately	
☐	9	1	Saddlebag harness, internal	Not sold separately	
☐	10	1	Wire harness cover	76001008	
☐	11	1	Label, saddlebag capacity	14002201	
☐	12	8	Retainer, wire	69200342	
☐	13	10	Cable strap	10006	
☐	14	1	Fuse, 40 Amp	72371-95	

NOTE

Verify all contents are present in the kit before installing or removing items from vehicle.

GENERAL

NOTE

The newly installed audio system and speakers will not play audio unless it is configured using the Harley-Davidson audio app or by an authorized Harley-Davidson dealership.

NOTE

The various generations of speakers, amplifiers and wiring for Harley-Davidson vehicles were not designed or tested to work together. Please refer to the P&A catalog for fitment recommendations and consult your dealership to ensure optimal performance and compatibility.

The Bluetooth Dongle is a audio communication component. In conjunction with H-D audio app, it can assign amplifiers and speaker channels or enhance the sound by widening the frequency range with an additional equalizer. The dongle **CANNOT** be used as a communications device between your phone and the vehicle's radio.

Models

*For model fitment information, see the P&A retail catalog or the Parts and Accessories section of www.harley-davidson.com (English only).

Ensure you are using the most current version of the instruction sheet which is available at: h-d.com/isheets

Contact Harley-Davidson Customer Support Center at 1-800-258-2464 (U.S. only) or 1-414-343-4056.

Electrical Overload

⚠ WARNING

When installing any electrical accessory, be certain not to exceed the maximum amperage rating of the fuse or circuit breaker protecting the affected circuit being modified. Exceeding the maximum amperage can lead to electrical failures, which could result in death or serious injury. (00310a)

NOTICE

It is possible to overload the vehicle's charging system by adding too many electrical accessories. If the combined electrical accessories operating at any one time consume more electrical current than the vehicle's charging system can produce, the electrical consumption can discharge the battery and cause damage to the vehicle's electrical system. (00211d)

This amplifier requires up to **8 amps** more current from the electrical system.

Installation Requirements

Download Harley-Davidson audio app.

Use this kit in conjunction with other **Harley-Davidson Audio powered by Rockford Fosgate®** kits.

For proper installation of the amplifier mount bracket to the surface of the saddlebag, the adhesion process should be allowed to cure for at least 24 hours.

These items are available at your Harley-Davidson dealership.

- **2014 and Later FLHTKSE, FLTRUSE and Touring:** Separate purchase of Harley-Davidson Power Extension Harness (Part No. 69200921) may be required. Use this when multiple electrical accessories are installed on the vehicle.
- **2014 and Later FLHTKSE, FLTRUSE and Touring:** Separate purchase of Harley-Davidson Primary and Bluetooth Dongle Kit (Part No. 76000997) is required for this installation.
- **2021 and Later FLHXSE and FLTRXSE:** Separate purchase of Harley-Davidson Bluetooth Dongle (Part No. 41000771) **is required** for this installation.
- **2021 and Later FLHXSE and FLTRXSE:** Separate purchase of Harley-Davidson Bluetooth Dongle Wire Harness (Part No. 69202641) **is required** for this installation.
- **2021 and Later FLHXSE and FLTRXSE:** Separate purchase of Harley-Davidson Dual Lock Tape (Part No. 76434-06) **is required** for this installation.
- **2022 FLTRKSE:** Separate purchase of Harley-Davidson Bluetooth Dongle (Part No. 41000771) **is required** for this installation.
- **2022 FLTRKSE:** Separate purchase of Harley-Davidson Bluetooth Dongle Wire Harness (Part No. 69202641) **is required** for this installation.
- **2022 FLTRKSE:** Separate purchase of Harley-Davidson Dual Lock Tape (Part No. 76434-06) **is required** for this installation.
- **2022 FLTRKSE:** Separate purchase of one Harley-Davidson Black 2-Way Housing (Part No. 69200272) **is required** for this installation.
- **2022 FLTRKSE:** Separate purchase of two Harley-Davidson Terminal Pins #16-20 AWG (Part No. 72169-07) **is required** for this installation.
- **2022 FLTRKSE:** Separate purchase of two Harley-Davidson Terminal Pins #18-20 AWG (Part No. 72168-07) **is required** for this installation.

⚠ WARNING

Rider and passenger safety depend 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, have a Harley-Davidson dealer perform the installation. Improper installation of this kit could result in death or serious injury. (00333b)

Installation by a technician at a Harley-Davidson dealership is recommended.

PREPARE

NOTE

This instruction sheet references service manual information. A service manual for this year/model motorcycle is required for this installation. One is available from a Harley-Davidson dealer.

1. Remove saddlebags.
 - a. 2021 FLHXSE and FLTRXSE models see below.
2. Remove side covers.
3. Remove main fuse.
4. Remove seat.
5. Remove fuel tank.
6. Remove left side caddy.
7. Remove top caddy.
8. Remove lower backbone caddy.
9. **Fork Mounted Fairing:**
 - a. Remove windshield.
 - b. Remove outer fairing.
 - c. Remove dash panel.
10. **Frame Mounted Fairing:**
 - a. Remove speaker grille.
 - b. Remove outer fairing.
11. If this is an upgrade to add a secondary amplifier to a system where the primary amplifier and speakers were completed in a prior install, some disassembly may be required.
12. If tour-pack or fairing lower speakers were used with a primary amplifier, disconnect the primary amplifier's speaker output at connector 351A (it will be re-routed to the secondary amplifier).

2022 FLTRKSE

Saddlebag

1. Remove left saddlebag.
 - a. Disconnect audio connectors.
2. See Figure 2. Locate Original Equipment (OE) 16-way connector [C288B_1].
 - a. Remove tape from white/pink and white/brown wires.

3. Install terminal pins Part No. 72168-07 to wires. See vehicle's Electrical Diagnostic Manual (EDM).
4. See Figure 3. Remove plugs from cavity's 13 and 14 of connector [C288B_1].
5. Install white/pink terminal pin into cavity 13 of connector [C288B_1]. See vehicle's EDM.
6. Install white/brown terminal pin into cavity 14 of connector [C288B_1]. See vehicle's EDM.
7. Install left saddlebag.
 - a. Connect audio connectors.

External Harness

1. See Figure 4. Locate taped white/pink and white/brown wires in battery box area. Remove tape from wires.
2. Install terminal pins Part No. 72169-07 to wires. See vehicle's EDM.
3. See Figure 5. Install white/pink terminal pins into cavity 1 of connector [69200272].
4. Install white/brown terminal pins into cavity 2 of connector [69200272].

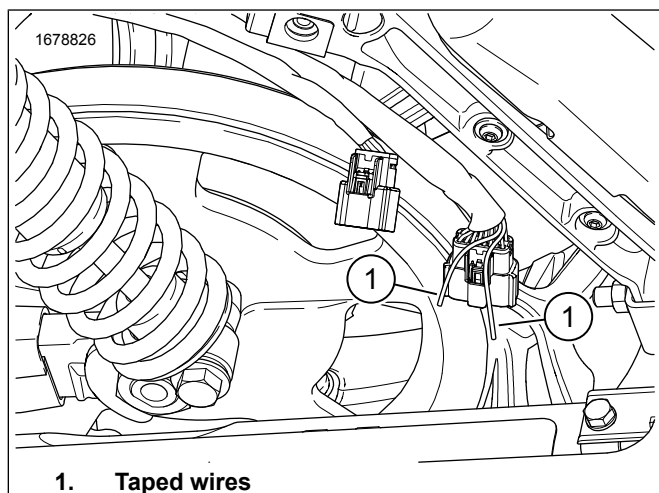


Figure 2. Saddlebag Wires

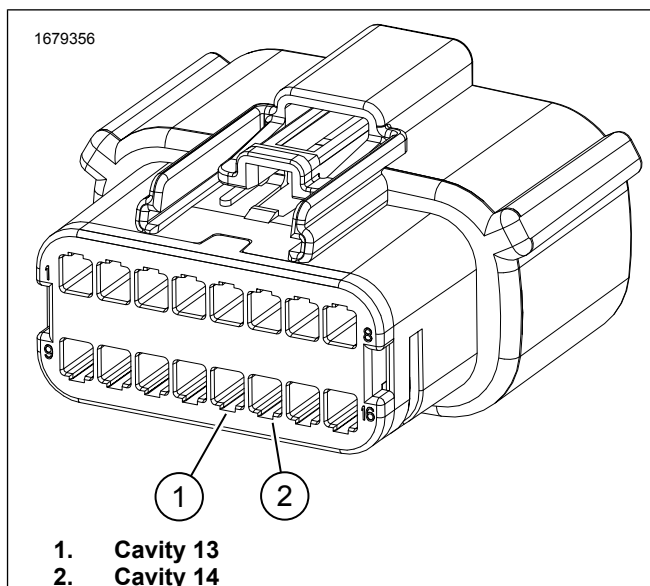


Figure 3. 16-Pin Connector C288_1

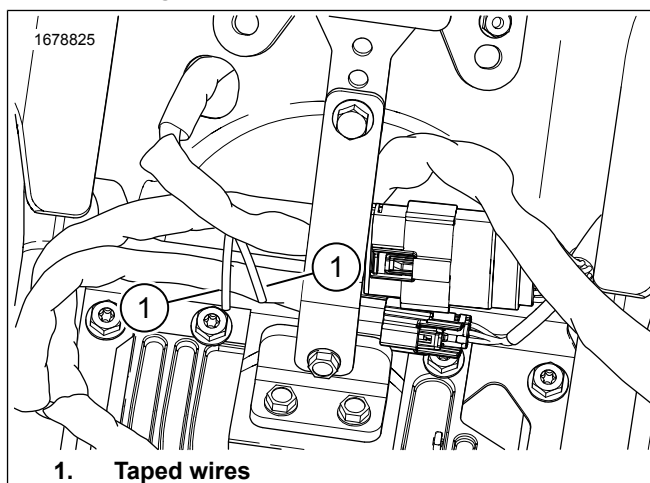


Figure 4. Battery Box Wires

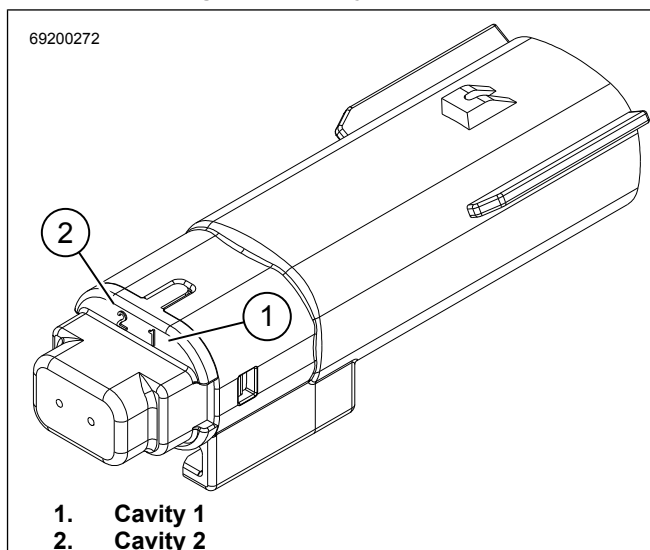


Figure 5. 2-Pin Connector 69200272

2021 FLHXSE AND FLTRXSE MODELS

Prepare

1. See Figure 6. Remove right saddlebag OEM components.
 - a. Disconnect speaker connectors.
 - b. Disconnect saddlebag lock connector.
 - c. Remove OEM internal harness cover.
 - d. Remove OEM 6-way connector [289B] (1). Release detent lock and turn counterclockwise.
 - e. Pull speaker and saddlebag harness wires (2) and connectors through hole. Save for later use.
 - f. Remove and discard OEM internal harness (3) and screws.

2021 FLHXSE and FLTRXSE Saddlebag

1. Refer to SADDLEBAG. Perform steps 3-13.
 - a. Remove and discard the accessory 6-Way connector, light blue and light blue/black wire harness and 2-way connector from secondary amplifier internal harness sub-assembly. See Figure 1 item (9).
 - b. Release detent lock and turn counterclockwise.
 - c. Pull speaker and saddlebag harness wires and connectors through hole and discard.
2. See Figure 6. Install right saddlebag OEM 6-Way connector (1).
 - a. Install connectors, speaker and saddlebag harness wires (2) through hole.
 - b. Install OEM 6-way connector [289B] (1). Turn clockwise and until detent locks.
 - c. Install internal harness cover.
 - d. Connect saddlebag lock connector.
 - e. Connect speaker connectors.
 - f. Route harness into OEM wire retention clips.

External Harness

1. See Figure 8. Use special tool to remove terminals from connectors.

Special Tool: MOLEX ELECTRICAL CONNECTOR TERMINAL REMOVER (HD-48114)

 - a. Remove white/pink wire (8) from OEM 6-way [289B] (4) (terminal 1).
 - b. Remove white/brown wire (8) from OEM 6-way [289B] (4) (terminal 2).

- c. Remove white/pink wire (7) from secondary amplifier harness 16-way connector [289B_1] (6) (terminal 1).
 - d. Remove white/brown wire (7) from secondary amplifier harness 16-way connector [289B_1] (6) (terminal 2).
2. See Figure 1. Install wires from 6-way to 16-way connector.
 - a. Install white/pink wire (8) from 6-way OEM connector [289B] (4) into terminal 1 of secondary amplifier harness 16-way connector [289B_1] (7).
 - b. Install white/brown wire (8) from 6-way OEM connector [289B] (4) into terminal 2 of secondary amplifier harness 16-way connector [289B_1] (7).
 3. See Figure 8. Use electrical tape to wrap ends of white wires (7) that were in the 16-way connector (6) or remove the wires entirely from the secondary amplifier harness including the unused connector [350B].
 4. Secure unused white wires (7) as needed.
 5. Seal open cavities of connectors with seal pins from discarded wire harnesses.

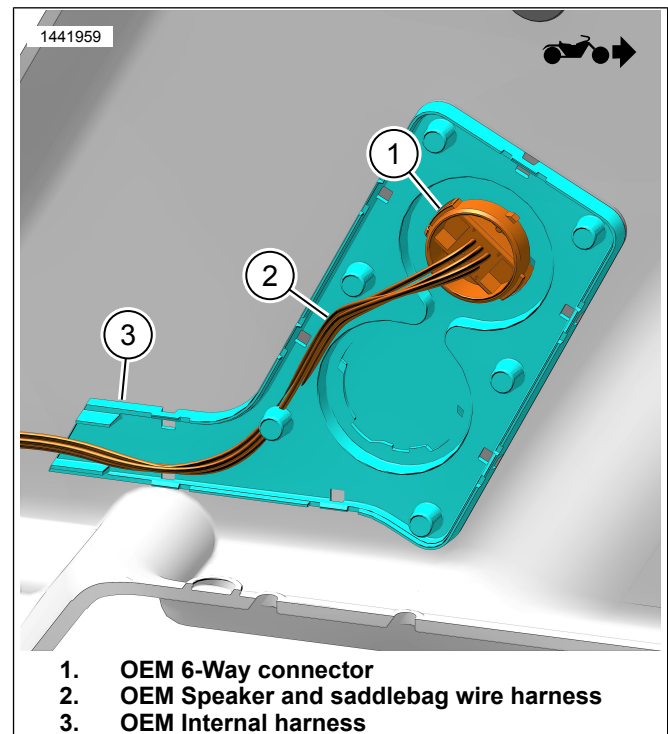


Figure 6. OEM Internal Harness (Inside Saddlebag)

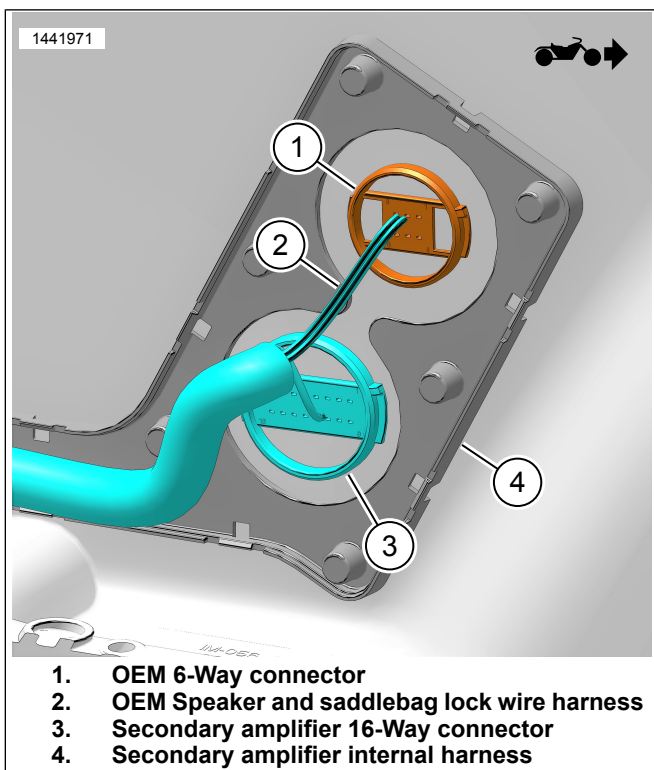


Figure 7. Secondary Amplifier Internal Harness (Inside Saddlebag)

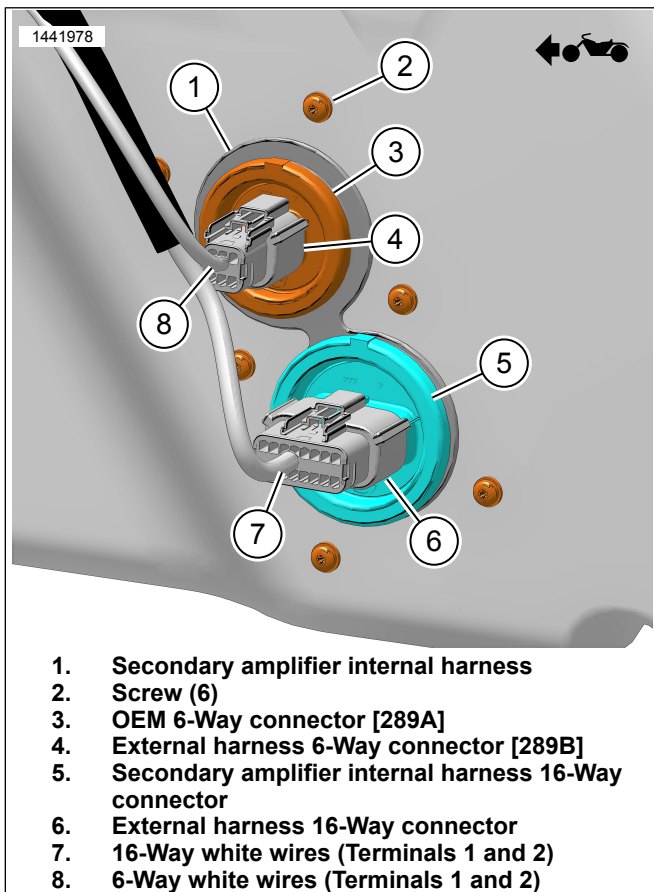


Figure 8. External Harness White Wires (Outside of Saddlebag)

SADDLEBAG

NOTE

The following models skip steps 1 through 3.

- 2021 and later FLHXSE and FLTRXSE

1. See Figure 9. Position template (2) on right saddlebag (1).
 - a. Use tape to secure template.

2. **NOTE**

Take extreme caution not to damage the painted surface.

Modify right saddlebag.

- a. Center punch drill locations on template.
 - b. **Internal harness holes:** Use 2 1/2-in hole saw.
 - c. **Screw holes:** Use 5.15 mm (13/64-in.) drill bit.
 - d. See Figure 10. Trim material to round edge (3).
 - e. Deburr holes by lightly sanding the surface.
3. See Figure 1. Install saddlebag capacity label (11).
 - a. Apply over current label.
 4. See Figure 12. Install grommet (3) into amplifier mount bracket (4).
 5. Install stud pin (2) into amplifier (1). Tighten.

Torque: 9–12 N·m (80–106 **in-lbs**) *Amplifier stud pin*
 6. See Figure 14. Connect internal harness connector (4) to amplifier (2).
 7. See Figure 15. Install amplifier (5) into amplifier mount bracket (4).
 8. Install amplifier cover (2).
 9. See Figure 16. Install screws (1). Tighten.

Torque: 13.5 N·m (119 **in-lbs**) *Amplifier cover screw*
 10. See Figure 14. Install wire harness cover (6).
 11. See Figure 10. Install internal harness (2).

12. **NOTE**

If the internal harness does not align with holes in the saddlebag, increase hole size up to 6.35 mm (1/4-in.) drill bit. Deburr and clean saddlebag.

Install screws (1). Tighten.

Torque: 1.1–1.5 N·m (10–13 **in-lbs**) *Internal wire harness screws*

13. Install amplifier mount bracket assembly.

- See Figure 11. Test fit mount bracket. Bracket must be straight, centered, and as close to the bottom of the saddlebag as possible.
- See Figure 13. Use slits in the mount bracket (1) to bend and conform to the saddlebag contour (2) without rocking. This will ensure better contact and adhesion with the tape. Do not peel tape at this time.
- See Figure 11. Test fit for final location ensuring bracket is straight, centered, and as close to the bottom of the saddlebag as possible.
- Use marker, masking tape or pencil to mark mounting location.
- Peel tape from mount bracket assembly.

NOTE

Once the bracket is taped into place it will be very difficult to remove without damaging the bracket.

- Install mount bracket assembly to the marked location.
- Stand saddlebag up on end and allow tape to cure for at least 24 hours.

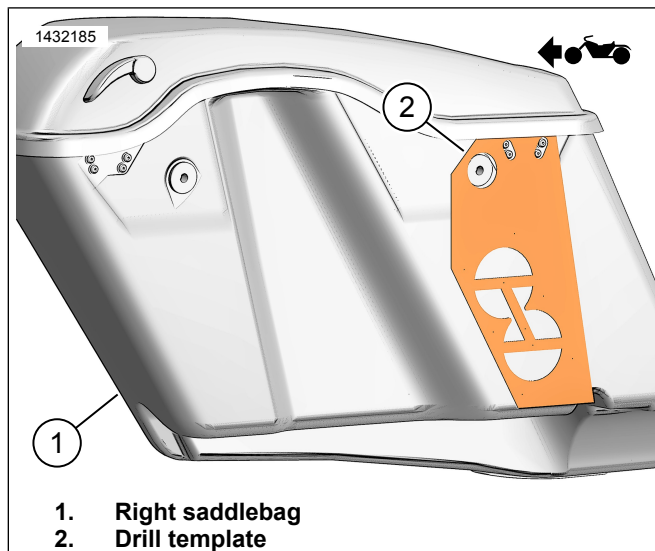


Figure 9. Right Saddlebag Template

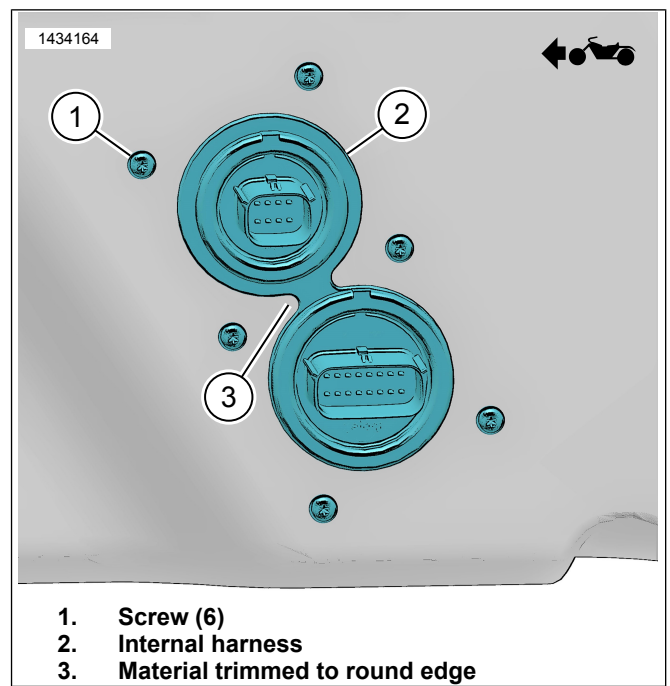


Figure 10. Inner Harness

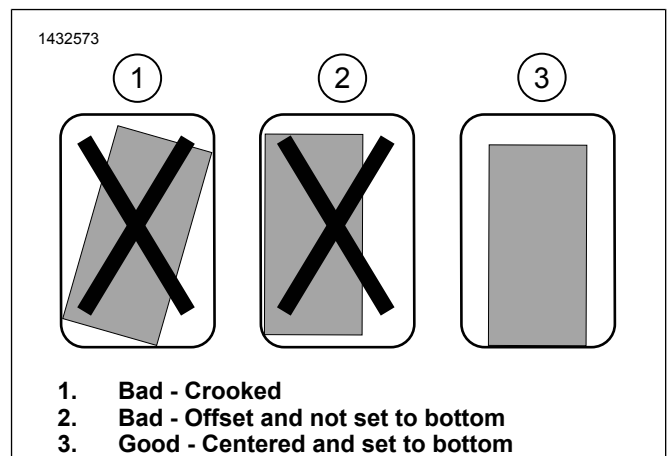


Figure 11. Mount Bracket Installation

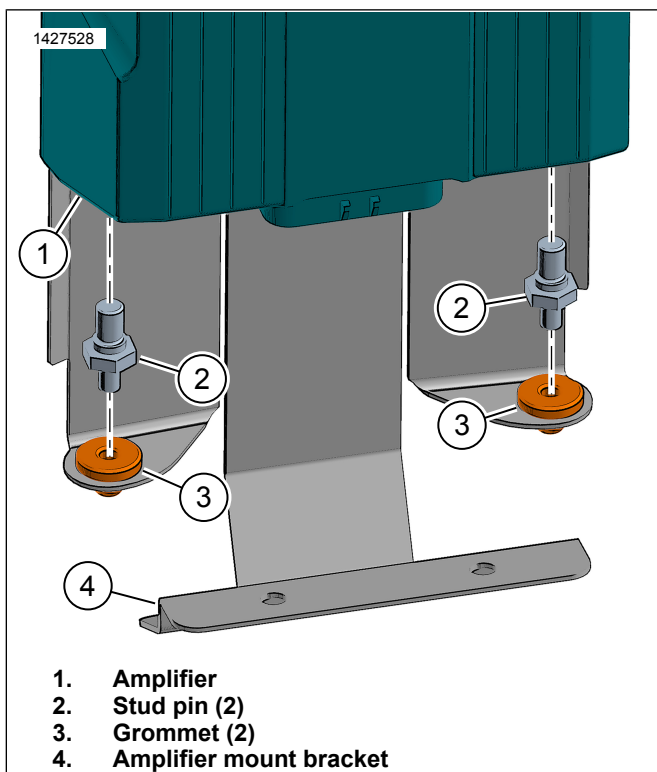


Figure 12. Amplifier Stud Pin

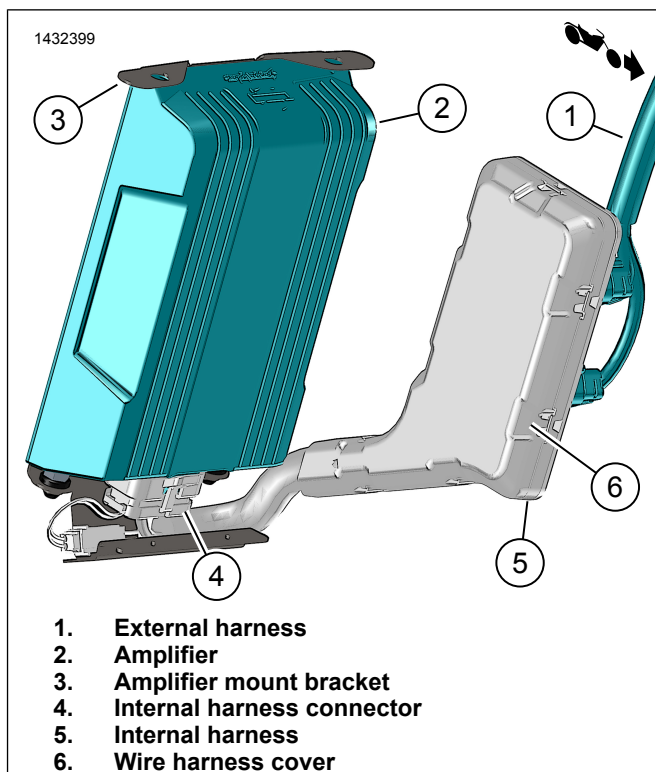


Figure 14. Right Saddlebag Amplifier Assembly

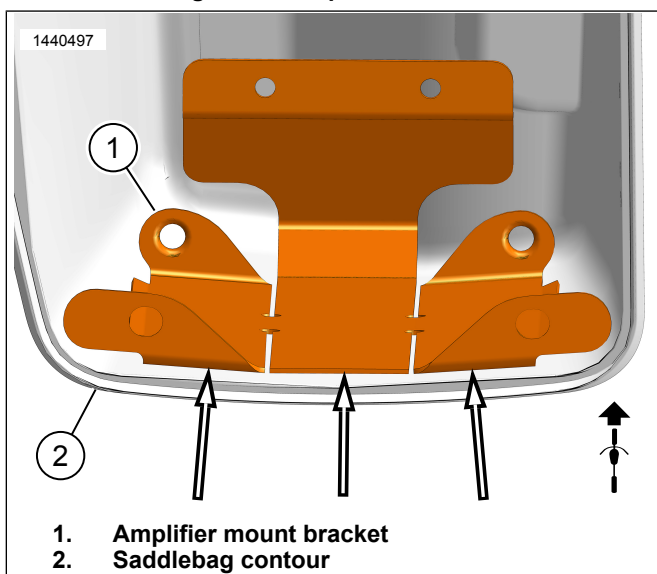


Figure 13. Saddlebag Contour

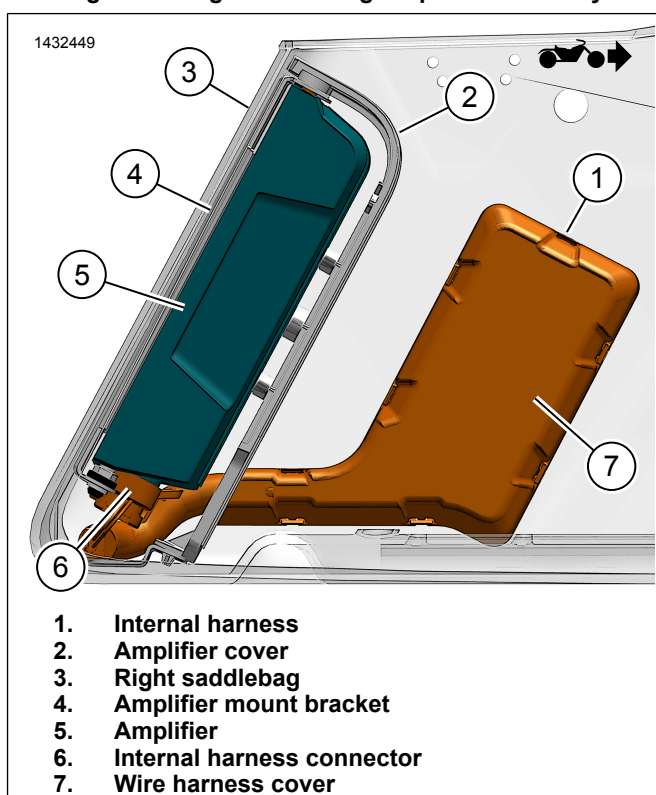


Figure 15. Saddlebag Harness with Amplifier

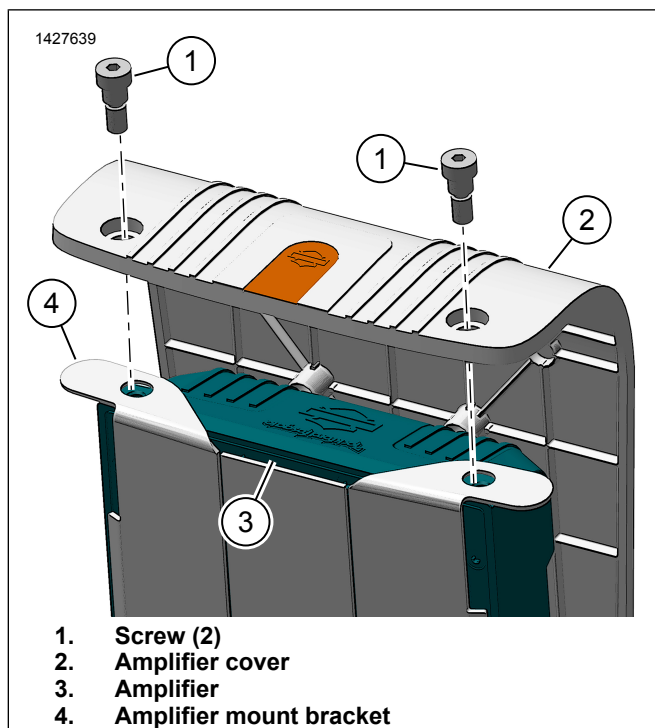


Figure 16. Amplifier Cover

EXTERNAL HARNESS

1. Route external saddlebag harness along frame.
 - a. See Figure 17. Using cable straps loosely install harness to anchor points (1). Do not tighten cable straps.
 - b. Mount saddlebag to check harness length. Leave enough length to easily connect to saddlebag.
 - c. See Figure 18. Route remaining harness into battery box area.
 - d. Connect negative battery wire (2).
 - e. Connect positive battery wire (4).
 - f. Install fuse (4) into fuse holder (3).
 - g. Secure fuse holder (3) with cable strap.
 - h. Route connectors (1) toward left side cover area and connectors (5, 6) toward the right side cover.
 - i. Secure rest of harness with cable straps as needed.

2. See Figure 17. Connect external saddlebag harness to internal harness (2) to saddlebag.
3. See Figure 18. Connect [350B] (1) of secondary amplifier harness to [350A] of primary amplifier harness.
 - a. **2022 FLTRKSE:** Connect [350B] (1) of secondary amplifier harness to 2-way connector.
4. Install saddlebag to vehicle.

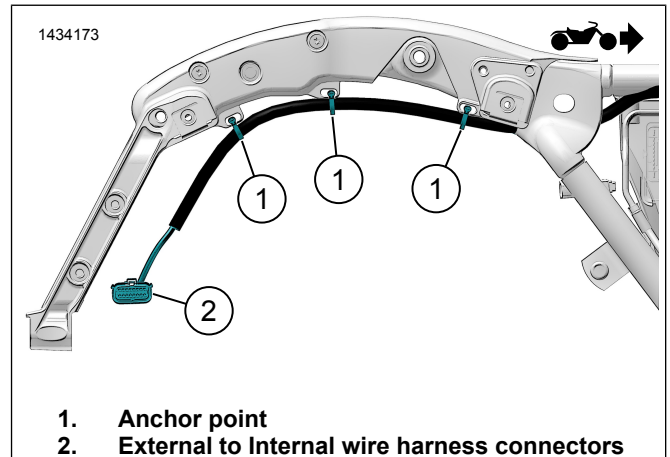


Figure 17. External Wire Harness Routing (Typical)

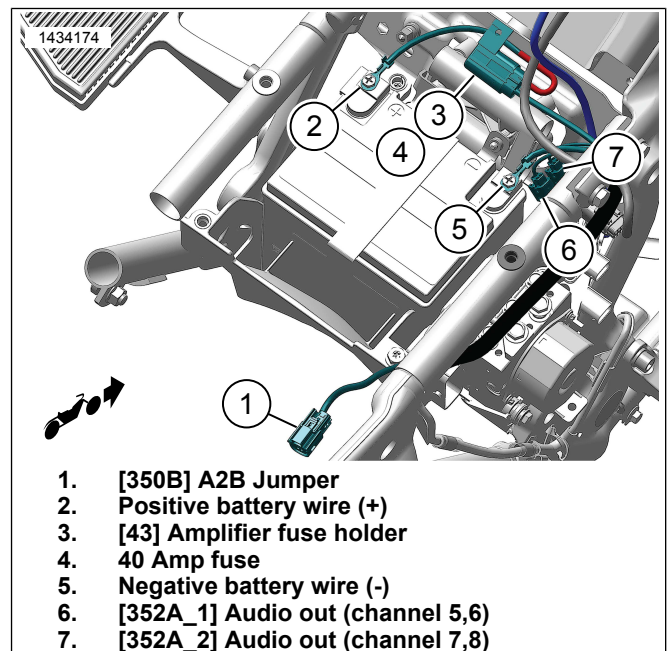
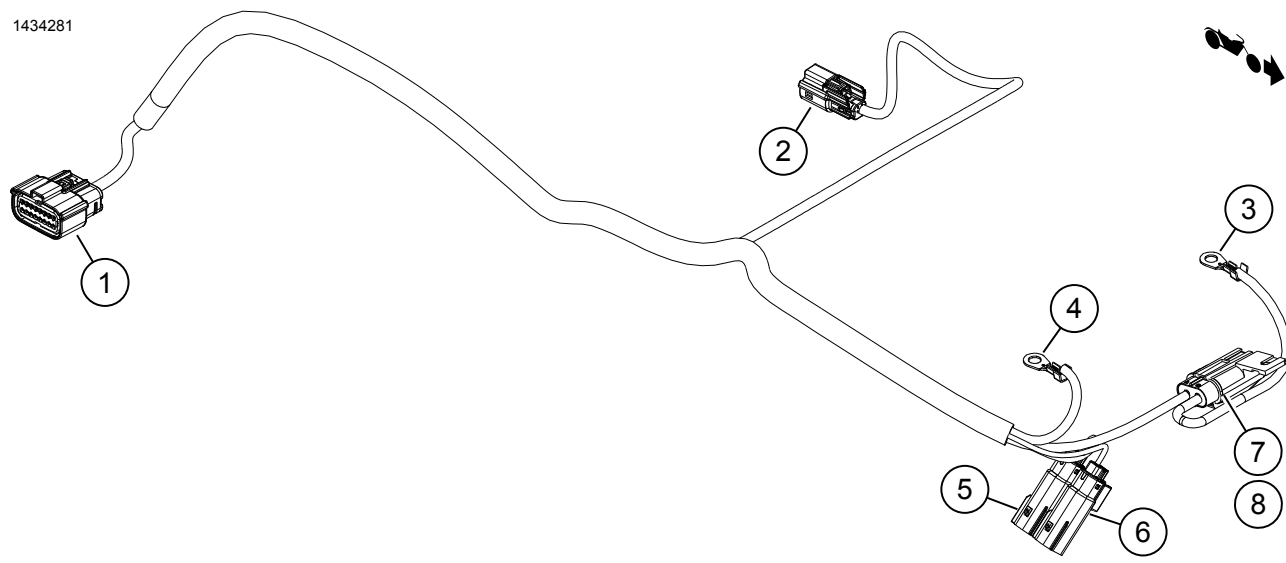


Figure 18. External Wire Harness Routing (Typical)



1. [289B_1] Right saddlebag connector
2. [350B] A2B Jumper
3. Positive battery wire (+)
4. Negative battery wire (-)

5. [352A_1] Audio out (channel 5,6)
6. [352A_2] Audio out (channel 7,8)
7. [43] Amplifier fuse
8. 40 Amp fuse

Figure 19. External Harness Connectors (2014 and Later)

SPEAKER CONNECTIONS

NOTE

If the right saddlebag installation includes a secondary amplifier, connect only the left speaker harness to [351A].

The speaker connections for the Tour-Pak and/or Fairing Lowers will be made to the secondary amplifier.

Channel 5, 6 and 7, 8

Fairing Lowers, Saddlebag Lids or Tour Pak

1. See the appropriate speaker installation kit for routing and connections associated with that kit.
2. **Channel 5, 6:** Tour-Pak and Fairing Lowers [352A_1].

3. **Channel 7, 8:** Tour-Pak and Fairing Lowers [352A_1] or depending the use [352A_1].
4. Connect the appropriate kit's wire harness to external harness [351A].

NOTE

If there are more than 4 speakers, then the saddlebag speakers must always be connected to the primary amplifier output [351].

If saddlebag speakers are not present, Tour-Pak and/or fairing lower speakers may be connected to [351] or [352] in any order. The App be used to configure the speaker signal assignment

If saddlebag speakers are not present, the external harness 6-way connector (4) will not be present. See Figure 8.

Table 3.

Speakers	Amplifier	Channels	Configuration	Fairing	Saddlebag	Tour-Pak	Lowers
2	Primary	1 & 2	Fairing speakers	349			
4	Primary	1, 2 & 3, 4	Fairing speakers & Saddlebag lids		351		
4	Primary	1, 2 & 3, 4	Fairing speakers & Tour-Pak			351	
4	Primary	1, 2 & 3, 4	Fairing speakers & Lowers				351
6	Primary	1, 2 & 3, 4	Fairing speakers & Saddlebag lids		351		
	Secondary	5 & 6	Tour-Pak			352_1	
6	Primary	1, 2 & 3, 4	Fairing speakers & Saddlebag lids		351		
	Secondary	5 & 6	Lowers				352_1
6	Primary	1, 2 & 3, 4	Fairing speakers & Tour-Pak			351	
	Secondary	5 & 6	Lowers				352_1
8	Primary	1, 2 & 3, 4	Fairing speakers & Saddlebag lids		351		
	Secondary	5, 6 & 7, 8	Tour-Pak & Lowers			352_1	352_1
				Use Connector Number by Speaker Set			

APP SETUP

- b. Access app menus (2) to setup vehicle sound system.

1. See Figure 20. Accessing your audio system.

- a. Pair device (1) to system.

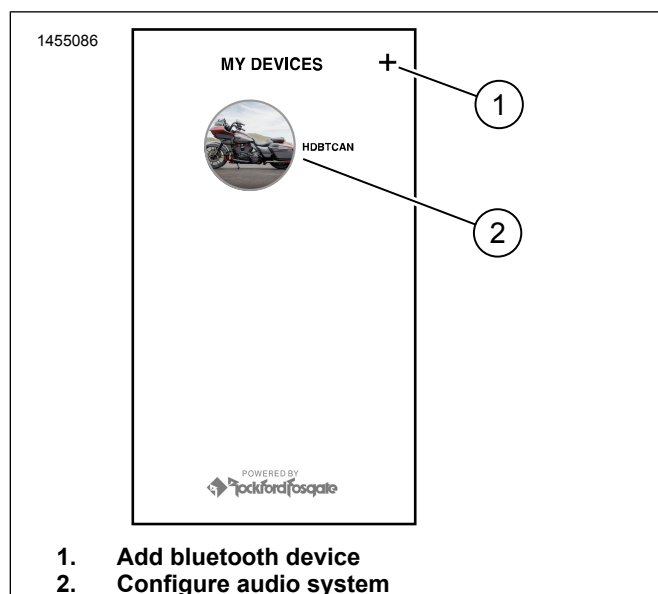


Figure 20. System Access

2. See Figure 21. Main menu screen.

- Main menu icon (1).
- Reset or change security personal identification number (PIN) (2).
- Edit and rename your system (3).
- Customize main menu with your bike picture (4).
- Bluetooth connection indicator. Slash through symbol indicates: Not Connected (5).

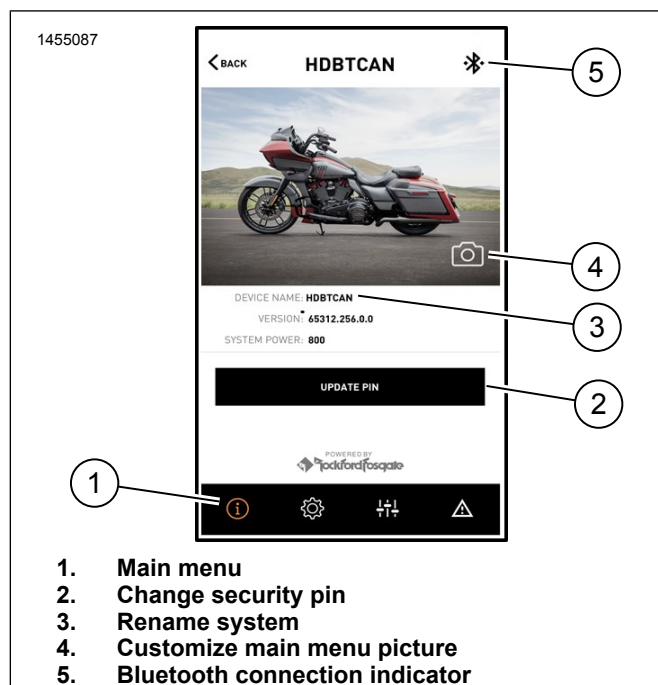


Figure 21. Main Menu

3. See Figure 22. Setup menu screen.

- Setup menu icon (1).
- Use to scan QR code (2) on iSheet.
- Manual setup for Stage 1 or 2 speakers, speaker location and white noise to assign speaker locations.

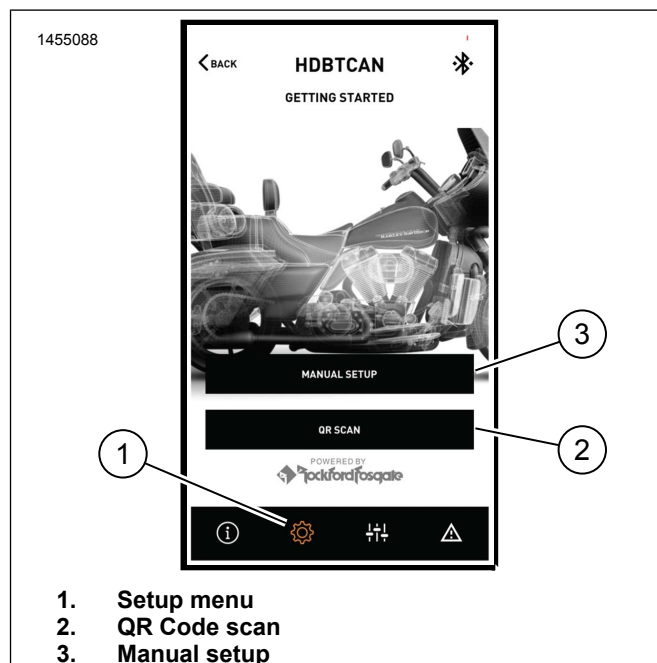


Figure 22. Setup Menu

4. See Figure 23. Equalizer setup screen.

- Equalizer setup icon (1)
- Tune 7-Band equalizer (2) frequencies.
- Custom or preset equalizer selections (3).

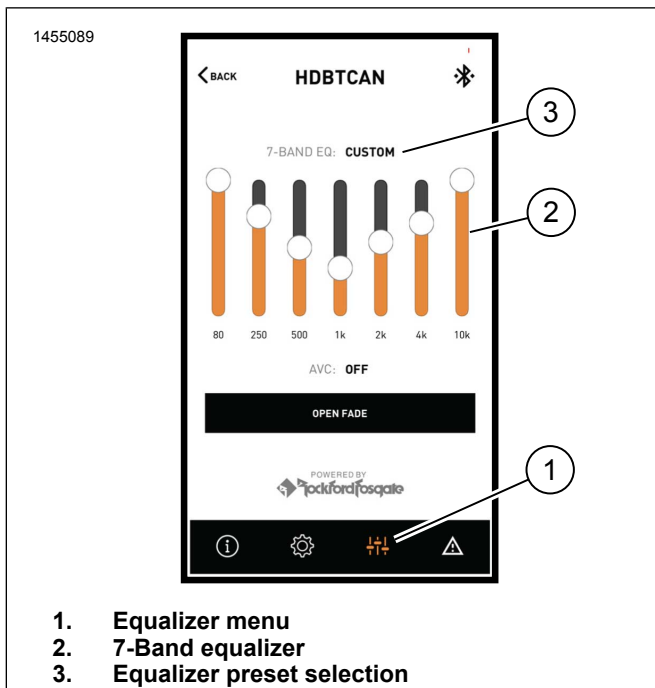


Figure 23. Equalizer Menu

5. See Figure 24. Diagnostic menu screen.
 - a. Diagnostic menu icon (1) displays sound system status.
 - b. Open the speaker testing screen (2).
 - c. Refreshes speaker and amplifier status (3) after component repair.
 - d. Select speaker for white noise (4) test and functionality.
 - e. Return to diagnostic menu screen (5).

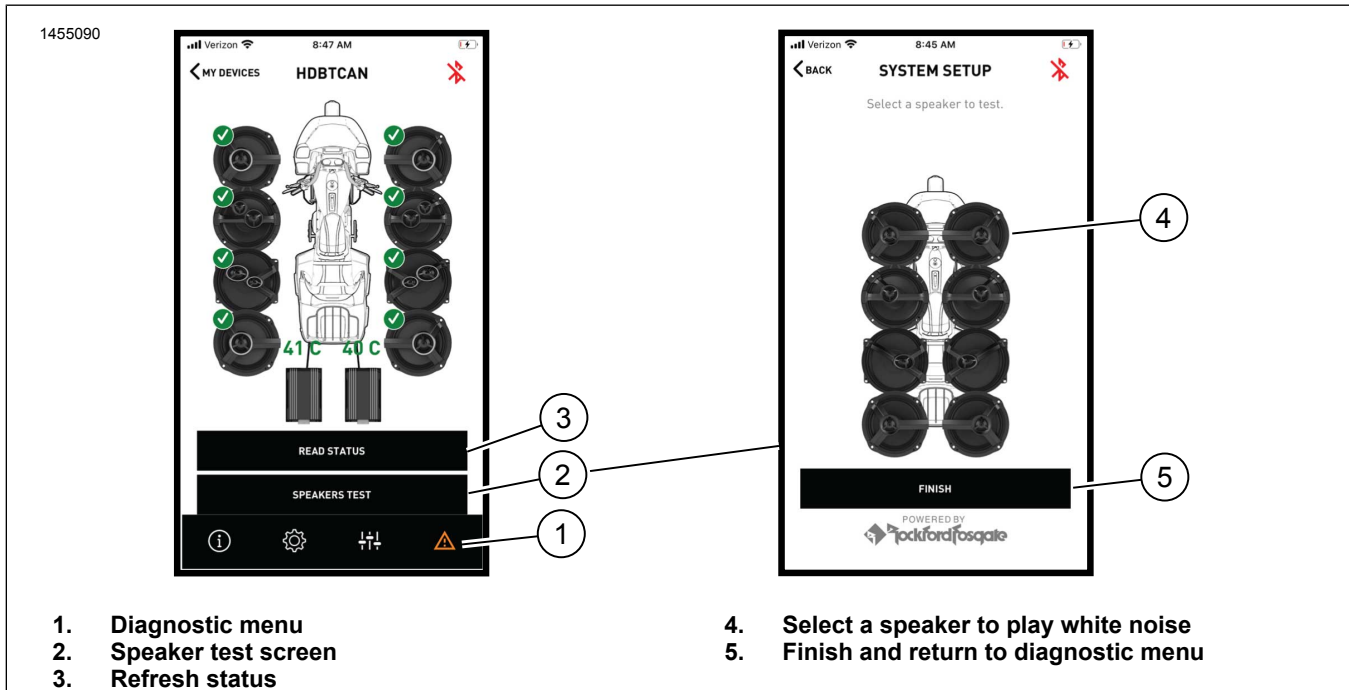


Figure 24. Diagnostic Menu

COMPLETE

1. Frame Mounted Fairing:

- a. Install speaker grille.
- b. Install outer fairing.

2. Fork Mounted Fairing:

- a. Install windshield.
- b. Install outer fairing.

- c. Install dash panel.
3. Install lower backbone caddy.
4. Install battery.
5. Install top caddy.
6. Install left side caddy.
7. Install fuel tank.

8. Install seat.
9. Install main fuse.
10. Install side covers.
11. Install saddlebags.