BOOM!™ BOX 4.3

2019 HARLEY-DAVIDSON® OWNER'S MANUAL

HARLEY-DAVIDSON

MOTOR
HARLEY-DAVIDSON
COMPANY

HARLEY-DAVIDSON
MOTOR CYCLES
AUTHORIZED
SERVICE

REGULATORY AND SAFETY INFORMATION

Exposure to Radio Frequency Radiation

The radiated output power of the internal wireless radio is far below the FCC radio frequency exposure limits. Nevertheless, the wireless radio shall be used in such a manner that the radio is 20 cm or further from the human body.

The internal wireless radio operates within guidelines found in radio frequency safety standards and recommendations, which reflect the consensus of the scientific community.

The radio manufacturer believes the internal wireless radio is safe for use by consumers. The level of energy emitted is far less than the electromagnetic energy emitted by wireless devices such as mobile phones. However, the use of wireless radios may be restricted in some situations or environments, such as aboard airplanes. If you are unsure of restrictions, you are encouraged to ask for authorization before turning on the wireless radio.

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: (a) Increase the separation between the equipment and receiver. (b) Consult the dealer or an experienced radio technician for help.

DECLARATION OF CONFORMITY

The EC Declaration of Conformity is available at **www.harman.com/EN-US/ContactUs/Pages/Compliance.aspx.**

English
Hereby, Harman Becker Automotive Systems, Inc., declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Česky [Czech]
Harman Becker Automotive Systems, Inc. tímto prohlašuje, že toto zařízení je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.

Dansk [Danish]
Undertegnede Harman Becker Automotive Systems, Inc. erklærer herved, at følgende udstyr anordning overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.

Deutsch [German]
Hiermit erklärt Harman Becker Automotive Systems, Inc., dass sich das Gerät in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.

Eesti [Estonian]
Käesolevaga kinnitab Harman Becker Automotive Systems, Inc. et käesolev seade vastab direktiivi 1999/5/EÜ põhinõuetele ja teistele asjakohastele sätetele.

Español [Spanish]
Por medio de la presente Harman Becker Automotive Systems, Inc. declara que el dispositivo cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.

Ελληνική [Greek]
ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Harman Becker Automotive Systems, Inc. ΔΗΛΩΝΕΙ ΟΤΙ Η ΣΥΣΚΕΥΗ ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.

Français [French]
Par la présente Harman Becker Automotive Systems, Inc. déclare que ce dispositif est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

Italiano [Italian]
Con la presente Harman Becker Automotive Systems, Inc. dichiara che questo dispositivo è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

Latviski [Latvian]
Ar šo Harman Becker Automotive Systems, Inc. deklarē, ka ierīce atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.

Lietuvių [Lithuanian]
Šiuo Harman Becker Automotive Systems, Inc. deklaruoja, kad šis įrenginys atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.

Nederlands [Dutch]
Hierbij verklaart Harman Becker Automotive Systems, Inc. dat het toestel in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.

Malti [Maltese]
Hawnhekk, Harman Becker Automotive Systems, Inc., tiddikjara li dan il-prodott jikkonforma mar-rekwiżiti essenzjali u ma' dispożizzjonijiet oħrajn relevanti li hemm fid-Direttiva 1999/5/KE.

Magyar [Hungarian]
Alulírott, Harman Becker Automotive Systems, Inc. nyilatkozom, hogy a készülék megfelel a vonatkozó alapvetõ követelményeknek és az 1999/5/EC irányelv egyéb elõírásainak.

Polski [Polish]
Niniejszym Harman Becker Automotive Systems, Inc. oświadcza, że urządzenie jest zgodne z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/WE.

Português [Portuguese]
Harman Becker Automotive Systems, Inc. declara que este dispositivo está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

Slovensko [Slovenian]
Harman Becker Automotive Systems, Inc. izjavlja, da je ta izdelek v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.

Slovensky [Slovak]
Harman Becker Automotive Systems, Inc. týmto vyhlasuje, že zariadenie spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.

Suomi [Finnish]
Harman Becker Automotive Systems, Inc. vakuuttaa täten, että tämä laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

Svenska [Swedish]
Härmed intygar Harman Becker Automotive Systems, Inc. att denna apparat står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Íslenska [Icelandic]
Hér með lýsir Harman Becker Automotive Systems, Inc. yfir því að tæki þetta er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC.

Norsk [Norwegian]
Harman Becker Automotive Systems, Inc. erklærer herved at denne enheten er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.

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SAFETY DEFINITIONS

Statements in this manual preceded by the following words are of special significance:

⚠ WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury. (00119a)

⚠ CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. (00139a)

NOTICE

NOTICE indicates a potentially hazardous situation which, if not avoided, may result in property damage. (00140b)

NOTE

Refers to important information and is placed in italic type. It is recommended that you take special notice of these items.

SAFETY INFORMATION

⚠ WARNING

Set volume levels and other controls on audio and electronic devices before riding. Distractions can lead to loss of control, resulting in death or serious injury. (00088b)

⚠ WARNING

Do not select a volume level that blocks out traffic noise or interrupts the concentration necessary for safe operation of the motorcycle. Distractions or a volume level that blocks out traffic noise could cause loss of control resulting in death or serious injury. (00539b)

NOTICE

There are no serviceable parts inside the unit; leave all servicing to qualified service personnel. Disassembly of the unit could result in equipment damage and/or equipment malfunction. (00172a)

This manual explains the operation of the Boom!™ Box Infotainment system. Investing time to learn about the features and operation of your motorcycle and its infotainment system will lead to safe enjoyable use of its full range of features. Read this manual carefully and keep it with your motorcycle at all times for reference. An online copy of this manual is

Safety First 1

available at www.h-d.com/boom (or the Boom! Box section on www.h-d.com/touring).

See the owner's manual for your vehicle for important rider safety information.

Follow all the warnings, cautions and safety tips shown throughout this manual and your vehicle manual.

See Figure 1. Do not use any feature of this system to the extent it becomes a distraction and prevents safe riding. The first priority while riding should always be the safe operation of the vehicle. While riding, observe all traffic regulations.

NOTE

The acceptance screen will clear after 15 seconds if ACCEPT botton is not pressed.

Pay attention while riding. Always concentrate on riding by keeping your eyes and mind on the road. To prevent distraction, some features are locked out, unavailable or limited in capability while the motorcycle is in motion. Even if a feature is available, do not allow it to distract you from operating the motorcycle safely.

For safety, program the system when stopped. Perform system setup and get familiar with the controls and features of the infotainment system before operating the motorcycle on the road.

This system cannot warn about such things as the safety of an area, road conditions and availability of emergency services.

Use this system only in locations where it is legal to do so.

For additional instruction and information for setting up or operating the system, see an authorized Harley-Davidson dealer and online resources at www.h-d.com/boom (or the Boom! Box portion of www.h-d.com/touring).

Figure 1. Acceptance Screen: 4.3 Models

2 Safety First

Figure 2. Vehicle in Motion Message

PRE-RIDE CHECKLIST

To make full use of features and minimize distraction while on the road, configure the system with your personal preferences before riding.

- Set brightness, background color and day/night color mode.
- Configure presets and favorites.
- Select tuning mode (tune/seek/preset).
- Adjust audio settings (volume, tone, fade and headset/speaker selection).
- Pair, connect and set up phone features through Bluetooth.
- Connect USB devices.
- Select station or media.
- Connect and put on headsets.

EMERGENCY PHONE NUMBER

Setting up an emergency phone number can provide access to help when needed. See Making a Call: Emergency Phone Number (Page 70).

NOTES

ACRONYMS USED IN THIS MANUAL

See Table 1. explains the acronyms used throughout this manual.

Table 1. Acronyms

ACRONYM	DESCRIPTION
AVC	Automatic volume control
CB	Citizens band
EITMS	Engine idle temperature management system
PTT	Push to talk
RDS	Radio Data System
RBDS	Radio Broadcast Data System
THD	Total harmonic distortion
VOX	Voice operated transmission

FEATURES, OPTIONS AND SPECIFICATIONS

Not all features are available on all models, destinations or year of manufacture.

Vehicles are equipped from the factory with the radios and features as described in Table 2. Also see System Information (Page 38) to view the hardware and software installed on your vehicle.

Table 2. Infotainment System Features

FEATURES
Tuner[1]
Media playback
Phone
Voice commands[2]
Vehicle status

[1] Frequency bands and RDS features depend on region.

[2] 4.3 only supports phone commands, in English only.

Table 3. Display

ITEM	DESCRIPTION
Screen	Weatherproof 4.3-inch QVGA LCD color screen
Languages	English (US), English (UK), French (Canada), French (Europe), Spanish (Mexico), Spanish (Castilian), German, Italian, Portuguese (Europe)
Day/night color modes	Day, night or automatic sensor activated
High contrast day colors	Selectable in day or automatic color modes
Adjustable brightness	Manual or automatic sensor activated

Table 4. Controls

ITEM	DESCRIPTION
Illuminated face-plate controls	Power/mute, favorite, home, screen selection hard keys
Integrated handlebar controls	Volume, seek/previous/next, home, voice recognition, back, cursor/select
Integrated passenger controls	Volume, seek/previous/next, audio source selection,
Keyboard	Full keyboard
Screen selection	Hard key
Hand control configuration	Normal or Classic mode

Table 5. Bluetooth

ITEM	DESCRIPTION
Functions	Media streaming, phone calls, phone book download, text message notifications
Protocols	Hands-Free Calling Profile (HFP, HFPAG/HFPHF services), Phone Book Access Profile (PBAP), A2DP/AVRCP (AV/Music, A2DP sink/source services), Message Access Profile (MAP), HFP+PBAP+AV Profile (simultaneously used), MP3, MPEG-4AAC, WMA, WAV
Paired devices	6 devices maximum

Table 5. Bluetooth

ITEM	DESCRIPTION
Connections	1 for phone, 1 for media
Range (approximate)	30 ft (9 m)

Table 6. Tuner

ITEM	DESCRIPTION
Tuner bands	FM (mono/stereo), AM, LW, MW, Weather Band (dependent on region)
Tuner presets	15 FM, 6 AM, 6 LW, 6 MW, 6 WB
Global presets	Up to 4 pages with up to 20 total
Tuning modes	Tune, seek, scan, preset scan
Favorites	1 Fav hardkey plus 6 favorites
Category filtering (PTY)	Selectable
Stations list	Dependent on region
RDS/RDBS	Dependent on region
RDS functions	Traffic Announcement/Traffic Program, Alternate Frequency Switching, Regionalization (dependent on region)
Single/dual tuner	Dependent on region
Weather band channels	7 channels, 6 presets

6 Features and Specifications

Table 6. Tuner

ITEM	DESCRIPTION
Weather band frequency	WB1-162.400MHz, WB2-162.425MHz, WB3-162.450MHz, WB4-162.475MHz, WB5-162.500MHz, WB6-162.525MHz, WB7-162.550MHz
Clock	RDS/user-selectable time setting

Table 7. Media

ITEM	DESCRIPTION
Playlists supported (Apple)	All playlists native to Apple iPod
Playlists supported (USB/PlaysForSure)	ASX, WPL, M3U, PLS, XML, RMP

Table 7. Media

ITEM	DESCRIPTION
Media presets	20 per device
Media devices supported	USB flash drives, Apple devices (iAP, iUI), PlaysForSure devices, SDRAM card with reader
USB device compatibility	FAT16, FAT32, NTFS, HFS+ (FAT32 required for data import/export and software updates)
Media file playback (USB/PlaysForSure)	MP3, MP4, MPEG-4AAC, M4A, M4B, WAV, WMA
Media file playback (Bluetooth)	MP3, MPEG-4AAC, WMA, WAV
Media file playback (Apple devices)	All iPod supported file types decoded and played from Apple device
USB port	USB 2.0, 5 V, 1.0 A charging current
Media controls	Repeat, shuffle, find, Bluetooth streaming, pause/resume

Table 8. Audio

ITEM	DESCRIPTION
Speed volume	4 levels of automatic gain based on speed, plus off setting
Audio routing	Adjustable speaker/headset audio routing (tuner, communication device, phone)
Sound adjustment	Audio tone and fade adjustment
Headset connectors	7-pin DIN with protective cap (number of headset ports depends on vehicle configuration)
Headsets	Helmet-mounted 7-pin DIN headset with microphone boom (non-mounted headset optional)
Output	25 W per channel
Speaker configurations	2 sealed and closed front speaker housings and 2 bass port rear speakers (models with Tour-Pak).
Speakers, fairing	6.5 in, 1.7 ohm, 88.9 dB, 75-16.2kHz, 51 W

Table 8. Audio

ITEM	DESCRIPTION
Speakers, Tour-Pak	6.5 in, 1.7 ohm, 88.9 dB, 75Hz-16.2kHz, 51 W
Amplifiers - Watts per channel	Internal 25 W amplifier
Distortion	1% THD

Table 9. Phone

ITEM	DESCRIPTION
Indicators	Signal strength and battery level indicators, low battery indicator, text message notification
Ring tones	4 built-in ring tones, 1 custom ring tone (media file import)

Table 9. Phone

ITEM	DESCRIPTION
Features	Inbound/outbound calls, call history, mute/unmute, phone book download, emergency phone calling
Call history	Up to 60 calls (20 received, 20 missed, and 20 dialed calls)
Saved phone numbers	Up to 200 contacts or phone numbers
Compatible phones	See www.h-d.com for phone list
Calls supported	Only one call at a time. Call waiting and three-way calling not supported
Connections	USB (media and charging only), Bluetooth (calls, text messaging, streaming media)
Text messaging	Inbound SMS messages (with text-to-speech), outbound text message autoreply

Table 10. Intercom

ITEM	DESCRIPTION
Communication	Rider/passenger headset communication
Operation	Push-to-talk (PTT) or voice activation (VOX)
Adjustments	VOX sensitivity, automatic speed sensitivity adjustment

Table 11. Voice Recognition

ITEM	DESCRIPTION
Functions	Phone
Languages	English (US/UK)

Table 12. Vehicle Status

ITEM	DESCRIPTION
Air temperature	Temperature of the surrounding environment measured by a sensor in the fairing

ITEM	DESCRIPTION
Engine oil pressure	Displays status as, OK or CHECK OIL
Engine Idle Temperature Management System (EITMS)	Displays status as disabled, enabled or active
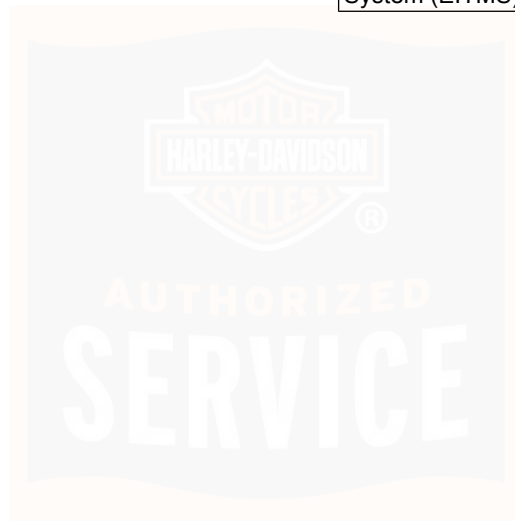
NOTES

INFOTAINMENT CONTROLS

1. **Power/mute hard key**
2. **Home screen hard key**
3. **Favorites hard key**
4. **Hard key**
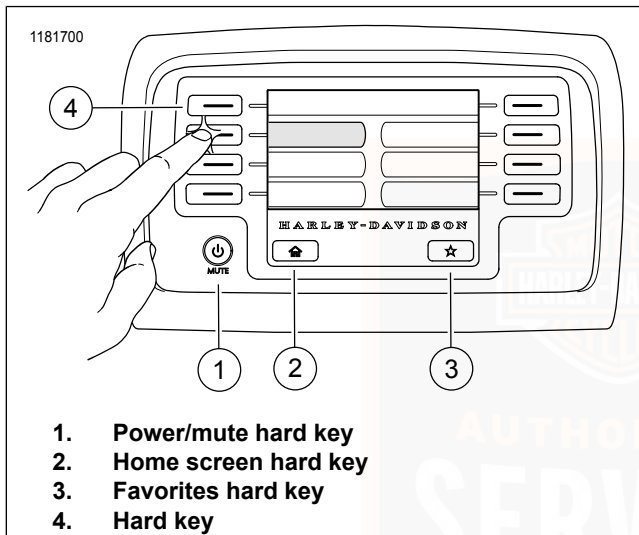
Figure 3. Boom! Box 4.3 Faceplate Controls

POWER/MUTE SWITCH

When turning the motorcycle on, the radio resumes its previous state (radio on or off).

Power On: With the motorcycle turned on or in accessory mode, press POWER/MUTE switch to turn on the system.

The system returns to the last state as when it was last turned off (media file, station, and so on).

Power Off: Press and hold the POWER/MUTE switch for three seconds to turn the system off. The screen goes black and the clock is displayed. The radio remains in sleep mode and continues to draw current while the motorcycle is turned on or in accessory mode. The radio does not reinitialize unless the vehicle is turned off for up to 30 seconds.

Mute/Pause: Briefly press POWER/MUTE to mute audio. Radio stations and intercom are muted. Media devices are paused.

Unmute/Resume: To resume audio or media files, briefly press POWER/MUTE switch again.

NOTE

- *Audio can also be unmuted by pressing the volume switches on the left hand control.*

- *Media can also be resumed by pressing the PREVIOUS/NEXT switch on the left hand control.*

- *The POWER/MUTE switch does not mute phone call audio. Use the Mute function in the phone menu to mute inbound/outbound phone audio during a call. See Muting Call Audio (Page 72).*

HOME SWITCH

Press the HOME switch to display the Home screen. Press the switch again to show the current audio source (tuner station, media file, or phone screen).

FAVORITE SWITCH (FAV)

The favorite (FAV) switch can be set to one audio source (radio station, tuner band, media file, or media player). After the FAV switch has been set, briefly press the switch to begin playing the selected audio source.

Setting FAV switch (tuner band): Press and hold FAV switch. Select **Tuner**. Select desired band (AM, FM, WB, and so on).

Setting FAV switch (radio station): Tune to a desired station (such as 105.7 FM or WB1). Press and hold FAV switch. Select the desired station on the screen.

Setting FAV switch (media player): With media player connected to the USB port, press and hold FAV switch. Select the media player on the screen.

Setting FAV switch (media file): With a media file playing, press and hold the FAV switch. Select the media file on the screen.

Listening to favorite: Briefly press the FAV switch. The band, station, or media will begin playing. Any media files or devices stored as a favorite must be connected to the USB port.

NOTE
- *The FAV switch only stores one audio source. The Favorites list on the Home screen is a separate feature which can store multiple presets. See Favorites (Page 41).*
- *To overwrite the currently stored favorite, repeat the procedure for setting the favorite.*
- *The FAV switch cannot be set to phone features.*

HARD KEYS: 4.3 ONLY

See Figure 3. Press the hard keys along the left and right side of the screen to select menu items and operate the system. Press the hard key that aligns with the desired function on the screen as shown.

BOOM! BOX HAND CONTROLS

Some features and functions shown are model and/or region-specific.

See the vehicle owner's manual for functionality of other hand control switches.

Left Hand Control Audio Functions
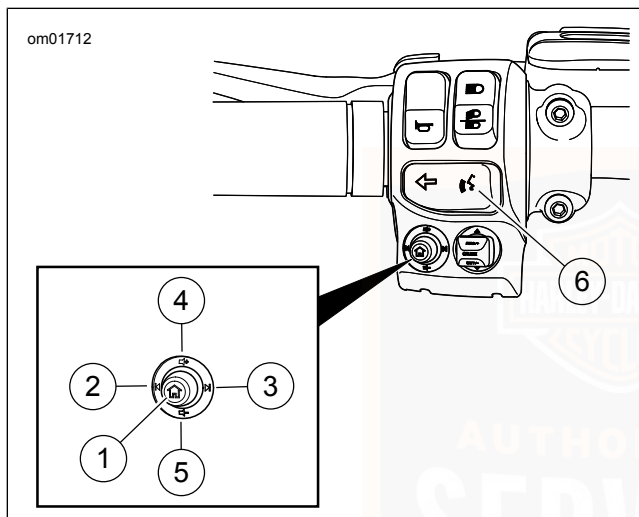
Figure 4. Left Hand Control Audio Functions (typical)

Table 13. Left Hand Control Audio Functions

ITEM	ICON	NAME	FUNCTION
1	🏠	Home	Toggles between current screen and Home screen
2	◀◀	Previous /Seek Down	**Media:** Previous media file. **Tuner:** Tune/seek/next preset down.

Table 13. Left Hand Control Audio Functions

ITEM	ICON	NAME	FUNCTION
3	▶▶	Next/Seek Up	**Media:** Next media file. **Tuner:** Tune/seek/next preset up.
4	🔊+	Volume Up	Increases volume
5	🔊−	Volume down	Decreases volume
6	🗣	Voice Recognition	Initiates a voice recognition session

Right Hand Control Audio Functions
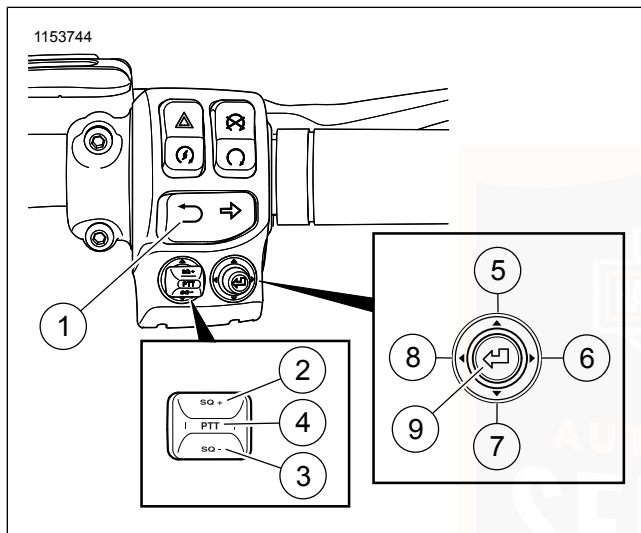
Figure 5. Right Hand Control Audio Functions

Table 14. Right Hand Control Audio Functions

ITEM	ICON	NAME	FUNCTION
1	↩	Back	**Short Press:** Back to previous screen. **Long Press:** Screen transitions between normal day color and high contrast color.
2	SQ +	CB Squelch +	Increases CB squelch level (if equipped).
3	SQ -	CB Squelch -	Decreases CB squelch level (if equipped).
4	PTT	CB Push to Talk	Press and hold to transmit on CB/intercom (if equipped).
5	▲	Cursor Up	Moves the highlighting up through the selections.
6	▶	Cursor Right	Moves the highlighting right through the selections. **Tuner:** Next preset up.
7	▼	Cursor Down	Moves the highlighting down through the selections.
8	◀	Cursor Left	Moves the highlighting left through the selections. **Tuner:** Next preset down.
9	↵	Select /Enter	Selects highlighted item.

14 Controls and Components

HOME/VOLUME/PREVIOUS/NEXT SWITCH

See Figure 4. The HOME/VOLUME/PREVIOUS/NEXT five-way switch operates radio features on equipped vehicles.

The operation of the HOME switch depends on whether the Classic Mode setting is enabled. To enable or disable Classic Mode, see Classic Mode (Page 36).

HOME (normal mode): Press the HOME switch to display the Home screen. Press the switch again to display the current audio source (tuner station, media file, or phone screen).

HOME (Classic Mode): Press the HOME switch to toggle through available audio sources (tuner bands, media player connected through USB, or Bluetooth connected device). This operates similar to the MODE SEL switch on previous Harley-Davidson motorcycles. To display the Home screen, press and hold the HOME switch on the handlebar or use the HOME switch on the radio faceplate.

PREVIOUS/NEXT: Press the switch to the left or right to seek up/down for a radio station or to select the previous/next media file. Within the Tuner menus, this switch can be configured to advance to the next frequency (tune), the next station (seek) or the next preset. See Tune (Page 44).

VOLUME: Press the switch up to increase volume or down to decrease volume to the speakers or rider headset. The volume control can also unmute audio and resume media.

NOTE

- *Unlike the MUTE switch, decreasing volume to zero does not pause media.*

- *The volume output is also affected by the speed volume setting. See Speed Volume (Page 35).*

- *Phone calls and system prompts have independent volume levels. Adjust the volume for these different audio sources while they are active. See the sections for each of these functions for operation.*

VOICE RECOGNITION SWITCH

See Figure 4. This switch activates the voice recognition features on equipped vehicles. With a headset connected, press the VOICE RECOGNITION switch. The radio beeps and shows a list of available commands. Speak the desired command into the headset microphone. See Voice Recognition (Page 85).

To cancel voice recognition, press and hold the VOICE RECOGNITION switch for three seconds, or press the HOME hand control switch.

PUSH-TO-TALK/SQUELCH SWITCH

PTT: See Figure 5. Press the PTT switch to transmit over CB or intercom. Both the rider and passenger microphones are live. Intercom can also be operated by voice activation (VOX).

Controls and Components 15

Squelch (SQ+/SQ-): Raise squelch (SQ+) to prevent noise or unwanted weak signals from unmuting the CB. Lower squelch (SQ-) to a level that allows desired CB signals to unmute the CB.

CURSOR/SELECT SWITCH

See Figure 5. The CURSOR/SELECT five-way switch can be used to select items on the radio screen.

CURSOR: Press the switch in the desired direction to move the highlighted cursor to another selection on the radio screen.

SELECT: Press the switch straight in to select a highlighted item or toggle a feature on the radio screen.

BACK SWITCH

See Figure 5. The back switch can be used to view previous screens and switch between normal day and high contrast color on the radio.

Press: Press to view previous screen on radio.

Long press: A long press will change the screen between normal day and high contrast color.

REAR (PASSENGER) CONTROLS

See Figure 6. Some vehicles have passenger controls on the right side of the Tour-Pak. These controls allow the passenger to operate functions in the radio.

MODE/UP/DN Switch

MODE: Press switch straight in to select the next available audio source.

UP/DN: Press switch up/down to select the previous/next radio station or media file.

Push-To-Talk (PTT)/Volume (VOL) Switch

PTT: Press switch to transmit over CB or intercom.

VOL+/VOL-: Press switch up (or down) to raise (or lower) the volume to the passenger headset. This switch does not affect the rider headset volume or speaker volume.

Enabling Rear Controls

The PTT/VOL switch is always enabled. However, the MODE/UP/DN switch can be enabled or disabled through the setup screens. See Rear Controls (Page 36) to enable these rear controls.

16 Controls and Components

1. MODE/UP/DOWN Switch
2. Push-To-Talk (PTT)/Volume (VOL±) Switch
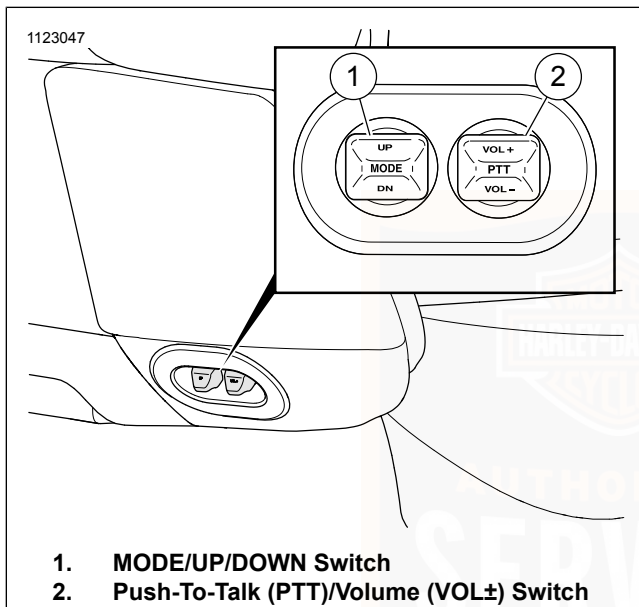
Figure 6. Passenger Controls

Table 15. Rear (Passenger) Control Audio Functions

ITEM	ICON	NAME	FUNCTION
1	MODE	Mode	Cycles to next available audio source.
	UP	Next/Seek Up	**Tuner:** Seek up. **Media:** Next file.
	DN	Previous /Seek Down	**Tuner:** Seek down. **Media:** Previous file.
2	PTT	CB Push-to-Talk	**If Equipped:** Press and hold to transmit on CB/intercom.
	VOL+	Volume Up	Increases volume.
	VOL-	Volume Down	Decreases volume.

HEADSET CONNECTION

⚠ WARNING

Do not select a volume level that blocks out traffic noise or interrupts the concentration necessary for safe operation of the motorcycle. Distractions or a volume level that blocks out traffic noise could cause loss of control resulting in death or serious injury. (00539b)

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Do not pull on the cord to remove the headset from the socket. Pull on the headset jack to disconnect the headset from the socket. (00174a)

See Figure 7 and Figure 8. Some vehicles have a rider headset connector on the fuel tank panel and a passenger headset connector on the left speaker pod. The headsets are used to operate the CB, intercom, voice recognition commands and other features on equipped models.

Use the Harley-Davidson 7-pin DIN headset that is supplied with equipped models or purchased from a Harley-Davidson dealer. Other headset microphones are not compatible. See the instructions that are included with the headset to install in a helmet. Connect the headset by aligning the ridge on the headset with the slot on the connector as shown in Figure 7. The headset only works if the connector is properly installed.

When using headsets, set the volume to a level where traffic and sounds from the surrounding environment can still be heard.

The socket caps remain shut when not in use to prevent dirt and water from entering the socket. Close both socket caps before washing the motorcycle.

om00304d

| 1. | Headset connector index |
| 2. | Console index |
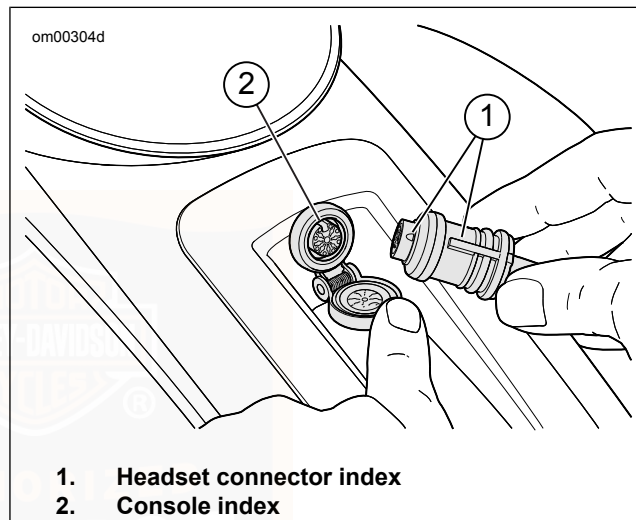
Figure 7. Rider Headset Connector (typical)
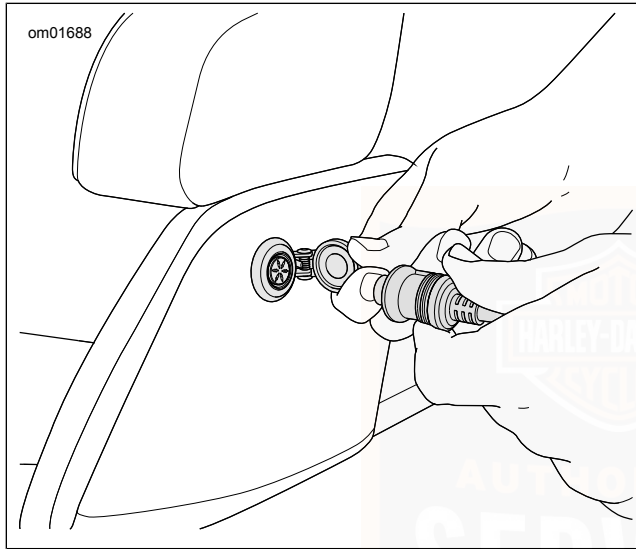
Figure 8. Passenger Headset Connector

Microphone Positioning

Full face helmets: See Figure 9. Route the boom below the helmet, with the microphone oriented upright inside the helmet, so the boom does not touch the chin.

Open face or half helmets: See Figure 9 and Figure 10. Position the microphone lightly touching or directly to the left of the mouth.
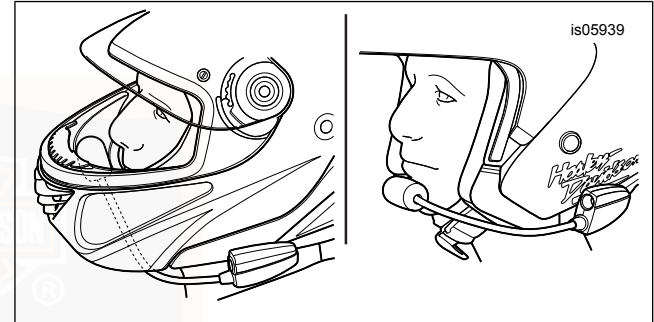
Figure 9. Microphone Positioning

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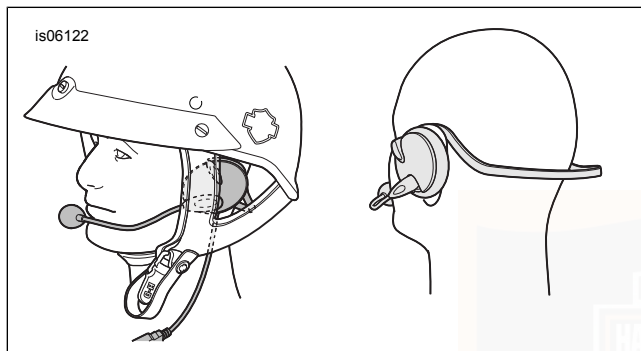
Figure 10. Headset and Microphone Positioning

MEDIA COMPARTMENT: USB PORT

See Figure 11 and Figure 12. The media compartment has a USB port to connect with a phone, media device or USB drive. An interface cable may be needed to connect with devices. The USB port is powered and operational when the vehicle is turned on or in accessory mode. Connected devices may be used for the following purposes.

Phone: Charges the phone and plays media files from the phone. However, phone calling and text messaging features are achieved only through Bluetooth connection.

Media device: Charges the device and plays media files.

USB drive: Plays media files, loads software updates, and imports ring tones.

Memory card: Some types of memory cards can be connected to play media files. Connection requires an adapter or reader.

NOTE
Do not use media players with hard drives. Vibration may cause internal damage.

Devices can be added or removed while the radio is on. However, when installing updates to the radio, do not disconnect the USB device until the task has completed.

Keep the compartment door closed while riding to prevent items from falling out. Remove valuable items from the media compartment before leaving the vehicle unattended.

Media Compartment: Fixed Fairing Vehicles

See Figure 11. Fixed fairing vehicles have a media compartment in the right side of the fairing.

Open: Pull up on the front of the compartment door to open as shown.

Cleaning: The rubber or fabric insert in the compartment is attached with hook and loop fastening tape and can be removed for cleaning.

Media Compartment: Fork Mounted Fairing Vehicles

See Figure 12. Other vehicles have a media compartment on the right side of the radio as shown. Insert the phone or media device into the foam cradle to secure the device and isolate it from vibration.

Open: Push lower portion of door and release to open.

Close: Firmly push the door shut until the latch engages.

Reset door latch: If compartment door was forced open or is not latching properly, the door latch may need to be reset. Push the door shut. Open the door. Close the door again to engage the latch mechanism.

Cleaning: The cradle can be removed for cleaning or to assist with installing or removing a device from the compartment.

USB Hub

A USB hub (not included) can be used to connect multiple USB devices to the radio simultaneously. The radio automatically begins playing media from the last connected device.

In the radio, select **Home** > **Media** to display a list of all connected devices. Music players are identified with a musical note icon. Other USB devices are identified with a USB icon.

NOTE

- *Do not use a hub when installing software updates.*

- *Connecting too many items through a hub can exceed the charging current available through the USB port. Insufficiently powered hubs can impact radio compatibility.*

| 1. | Storage/media compartment door |
| 2. | USB port |
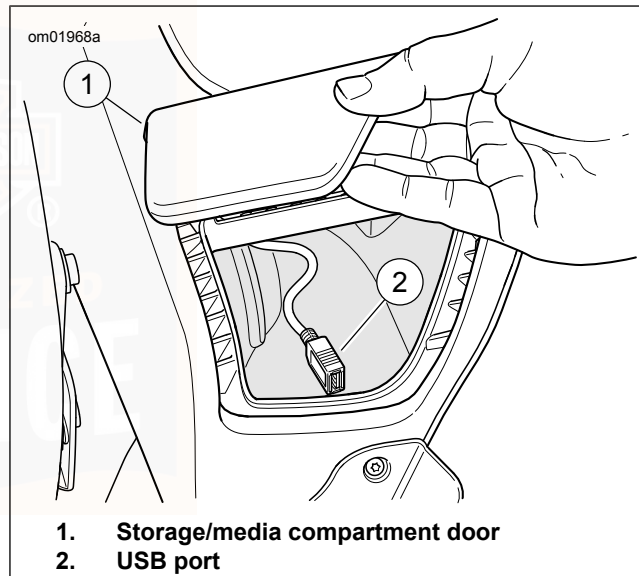
Figure 11. Storage/Media Compartment: Fixed Fairing Models

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1. **Door recess**
2. **USB port**
3. **Cradle**
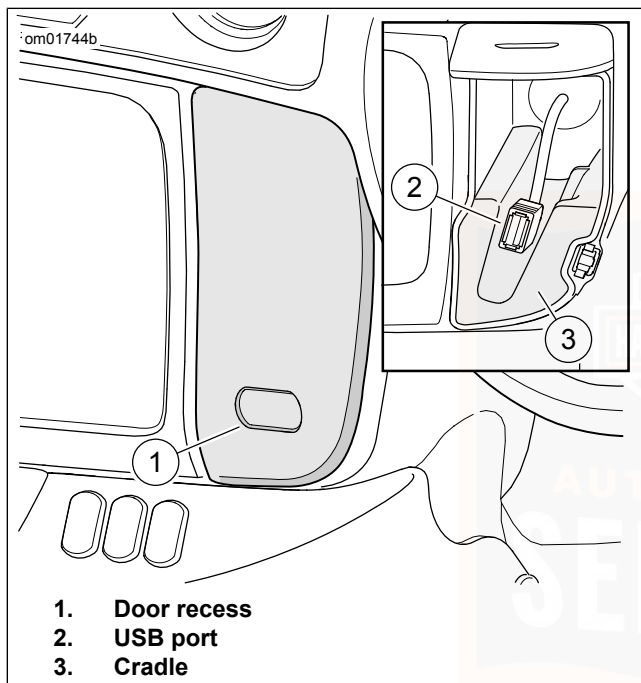
Figure 12. Media Compartment

SPEAKERS

The speaker types and arrangements are different across models. All speakers are weatherproof and sealed for use in all riding weather conditions. See Care and Cleaning (Page 59) to properly care for speakers. See www.h-d.com/store for available speaker options.

Fairing Speakers

Front speakers are designed into a ported enclosure in the fairing for additional bass response and higher fidelity. Models include different speaker specifications and arrangements within the inner fairing.

Fairing Lower Speakers

Fairing lower speakers are equipped on some models to provide more volume for the sound system. These are also available as accessories for vehicles with air-cooled engines.

Saddlebag Speakers

Saddlebag speakers are equipped on some models to provide additional surrounding volume for the sound system. These speakers use the saddlebag enclosure to provide enhanced bass response. A small amount of water may occasionally collect in the speaker cavities while parked outdoors. The saddlebag speakers are weatherproof, and the heat from speaker operation would soon evaporate the water, but there could be a temporary effect on sound quality. To promptly empty the speaker cavities, lift the saddlebag lids. Saddlebag speakers are also available as accessories.

Tour-Pak Speakers

These forward-facing speakers direct sound to the rider and passenger. The bass boost ports use the enclosed space in the Tour-Pak to provide an enhanced bass response with reduced distortion. The bass response of these ports may be affected when items are stored in the Tour-Pak or when the Tour-Pak lid is open.

ANTENNAS AND RECEPTION

Tuner antenna: See Figure 13. Antenna on the rear of the vehicle may be removed during vehicle storage. Make sure to install antenna before operating the radio. To install, hand tighten the antenna to the mount. Always install the tuner antenna (marked with the letters "AM/FM" at the base of the mast) on the left side of the motorcycle.

Hidden tuner antenna: Some vehicles have an antenna installed in the fairing for tuner reception (AM/FM/WB).
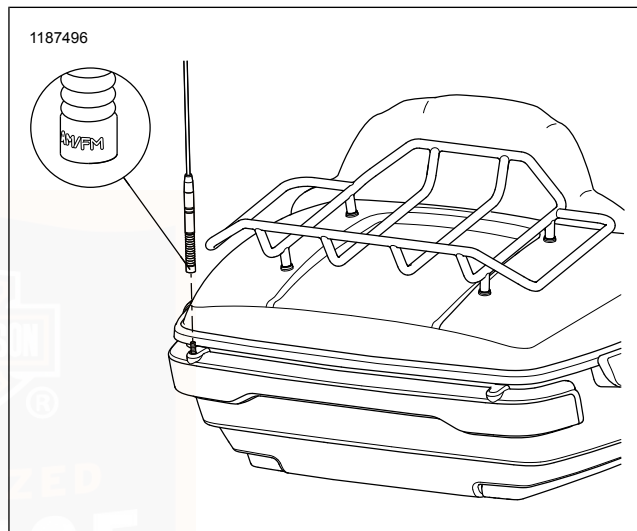

Figure 13. Tuner antenna: AM/FM

BLUETOOTH

The system has Bluetooth capability for accessing media files and phone operation. See the Bluetooth (Page 61) section to set up and connect devices.

TURNING MOTORCYCLE ON, OFF OR TO ACCESSORY MODE

Turning on motorcycle: When the motorcycle is turned on, the radio returns to its previous state before shutdown. Features such as intercom, current station or media playing resume as before the vehicle was turned off. A Bluetooth connection to the phone will attempt to resume.

Starting the engine: When starting the engine, the audio mutes and the screen turns off momentarily.

Radio on/off: If the radio is turned off before the vehicle is shutdown, it will remain turned off when the vehicle is turned back on.

Restart radio: To reinitialize the radio, allow the vehicle to remain turned off for up to 30 seconds before turning the vehicle back on.

Accessory mode: When the vehicle is in accessory mode, operation of the radio will result in some battery drain. The motorcycle will automatically turn off after two hours in accessory mode. Keyed vehicles enter/exit accessory mode by turning the ignition switch to the appropriate position. Keyless vehicles enter/exit accessory mode by holding the trigger switch.

Turning off motorcycle: If turning off the motorcycle while in an active phone call, the radio will prompt to transfer the call back to the phone. If the prompt is not accepted, the radio will continue to support the call for approximately five minutes before automatically transferring the call back to the phone and shutting down. See Resuming Calls After Vehicle Shutdown (Page 79).

DISCONNECTING THE VEHICLE BATTERY

The system retains user data and system settings when the vehicle battery has been disconnected or main fuse is removed. Features such as paired devices, phone books, favorites, presets and system settings are retained in memory. The radio returns to its previous functionality after the battery is reconnected to the vehicle.

HOME SCREEN

See Figure 14. The Home screen provides access to all the features available for the system. The layout of items on this screen may be different depending on radio type and installed features.

Use the hard keys or CURSOR/SELECT hand control switch to make selections and operate the system.

During initialization and startup, some features may be unavailable for a short time (such as media and voice recognition).

1. Favorites
2. Media (Bluetooth and USB devices)
3. Tuner (FM and other bands)
4. Communication (phone)
5. Setup

Figure 14. Home Screen

SCREEN MENU BAR

See Figure 15. Many screens have a menu bar at the top of the screen. The menu bar and its components change according to the screen being displayed.

Title: The title of the screen or function is located in the center of the menu bar. The screen title is not a selectable button.

Buttons: Some menu bars contain a selectable button on the right, left or both sides of the screen title.

Figure 15. Screen Menu Bar

CHECKBOXES

See Figure 16. Some options are selected or enabled with a checkbox as shown.
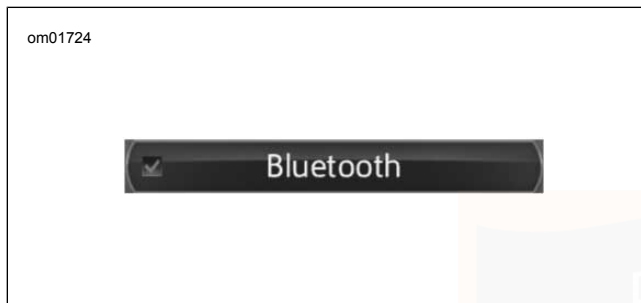
Figure 16. Checkbox - Function Enabled (typical)

MULTISELECT BUTTON

See Figure 17. Multiselect buttons have a plus sign (+) with an arrow symbol on the button. The text shown on the button is the currently active setting.

Repeatedly press the multiselect button until the desired selection is displayed.

Figure 17. Multiselect Button (typical)

SCROLL CONTROLS

See Figure 18. Scroll controls are displayed on the side of the screen when there is more than one page of available options. Use the soft keys, touchscreen or CURSOR/SELECT hand control switch to scroll through multiple pages of options. Press and hold the scroll controls to rapidly scroll through long lists.

1. Scroll up
2. Scroll down

Figure 18. Scroll Controls

KEYBOARD

The keyboard is used for entering data into the radio when needed. The keyboard is operated by using the CURSOR/SELECT hand control switch to select letters.

26 Basic Operation

Input is displayed in the title bar. Select the buttons for numbers, symbols or extended characters to display keypads with additional characters as needed. When finished with a keyboard entry, select OK.

See Figure 19. When input is required, the screen displays a full keyboard with alphabetically arranged characters A-Z.

1. **Input (displayed in title bar)**
2. **Keyboard (alphabetically arranged)**
3. **Enter**
4. **Numeric keypad**
5. **Symbols**
6. **Space**
7. **Backspace/delete**
8. **OK**
9. **Shift (upper/lower case)**
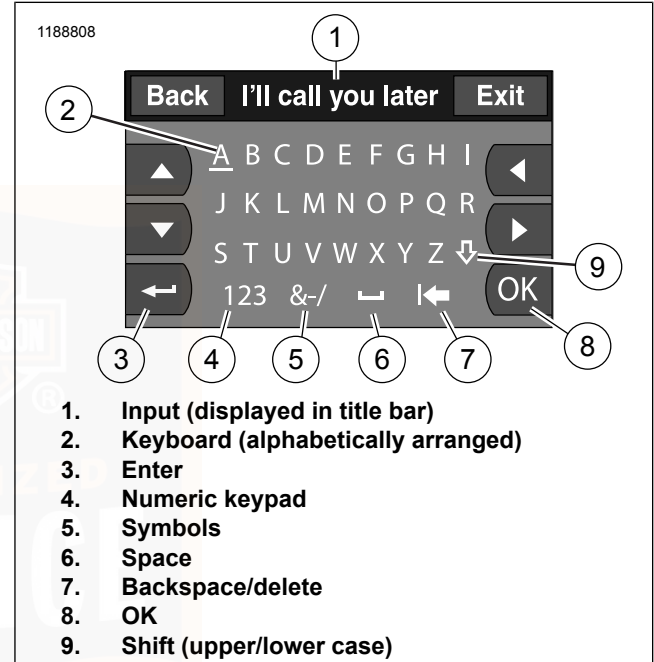
Figure 19. Full Keyboard

VOLUME CONTROLS

A volume indicator is shown when the rider or passenger presses the volume control switch.

Rider (controls on handlebar): Adjusts the volume level for the speakers and the rider headphones (if active).

Passenger (on Tour-Pak equipped models): Adjusts the volume level for the passenger headphones only.

If the volume controls are pressed during a prompt or a specific function (such as during voice recognition or intercom activity), the volume for that particular function will be changed and displayed on the screen.

POPUP SCREENS

The radio displays popup screens to explain when a feature is unavailable, display a low fuel message, indicate an incoming phone call, and so on. These screens may interrupt normal system operation. Some screens require a choice (Yes/No) or require confirmation (OK). Select the icon to acknowledge the message or activate the feature.

LOCKOUT SCREENS

Some screens, features or menu items may be locked out or unavailable, such as when the vehicle is in motion.

To operate the features, follow the guidance that is provided on the popup screen. If necessary, use hands-free voice recognition commands or safely park the vehicle to perform the task.
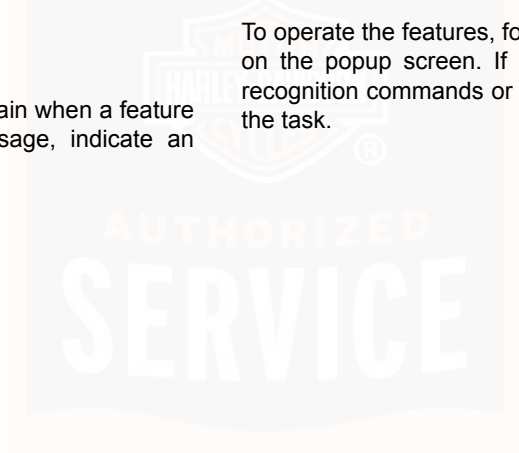
SYSTEM SETUP

Configure the system settings before riding the motorcycle, with the motorcycle stationary and set to accessory mode. Adjust the options to match your personal riding style, and to make best use of any features or devices that you may be using. If there are problems with any features in the radio, first check the relevant settings.

Some settings may be region specific. See Features and Specifications (Page 5) for more information about the features available on your motorcycle and in your region.

If audio accessories have been added to the motorcycle, see the instruction sheets for proper configuration and operation of those accessories.

SETUP MENU

See Figure 20. Select **Home** > **Setup**. Some of the settings may be disabled or not displayed depending on vehicle model. For a list of all the categories that can be configured, refer to Table 16.

Figure 20. Setup Menu

Table 16. Setup Menu

ITEM	SETTINGS
Speaker/Headset	Music/Media
	Communication
	Prompts
Audio Setup	Bass
	Treble
	Fade
	Speed Volume
Display	Screen Brightness
	Button Brightness
	Colors (Day/Night Color Mode, Background Color*, High Contrast Day Colors)
Global Presets	Global Presets On/Off
	Number of Pages
Feedback Settings	Prompt Volume
	Beep volume

Table 16. Setup Menu

ITEM	SETTINGS
Bluetooth Setup	Bluetooth On/Off
	List Paired Devices (Add New Device)
	Ring Tones
English Units/Metric	---
Clock	User Time
	12 Hour/24 Hour
	Daylight Savings Time (DST) On/Off
	Zone (Auto) or varied by region
Rear Controls On/Off*	---
System Information	Software
	Hardware
	EQ
Language	English (US)
	English (UK)
	French (CA)
	French (FR)
	German (DE)
	Italian (IT)
	Spanish (ES)
	Spanish (MX)
	Portuguese (PT)
Classic Mode On/Off*	---
*Features are only available or enabled on some vehicles.	

LANGUAGE

See Figure 21. The system can be configured for any of the languages shown in Table 17. The selected language affects the text displayed on the screen, voice prompts from the system, and voice recognition features. To make sure that the system works properly for your use, select the proper language and dialect as applicable.

Figure 21. Language Setting

Table 17. Language Settings

SETTING	LANGUAGE/REGION
English (US)	American English
English (UK)	British English
French (CA)	Canadian French
French (FR)	France
German (DE)	Germany
Italian (IT)	Italy
Spanish (ES)	Castilian Spanish (Spain)
Spanish (MX)	Mexican Spanish
Portuguese (PT)	European Portuguese (Portugal)

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SCREEN BRIGHTNESS

1. See Figure 22. Select **Home** > **Setup** > **Display** > **Screen Display**.

2. To switch between manual and automatic:

   a. **Automatic:** Check the **Automatic** checkbox. The screen brightness will automatically adjust according to the ambient light measured by the sensor in the speedometer.

   b. **Manual:** Uncheck the **Automatic** checkbox. Adjust the brightness level.
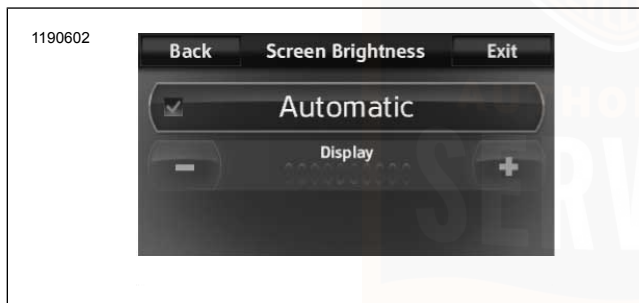
Figure 22. Display Feature

BUTTON BRIGHTNESS

1. See Figure 23. Select **Home** > **Setup** > **Display** > **Button Brightness**.

2. Adjust the brightness level.

NOTE

- *The brightness settings do not affect the brightness of vehicle instruments, illuminated hand control switches (on select models) or other accessories.*

- *The faceplate button lighting remains off when the radio is in Day Colors mode.*

Figure 23. Button Brightness

DAY/NIGHT COLORS MODE

1. Select **Home** > **Setup** > **Colors**.

2. Press the multiselect button until the desired color mode is displayed.

   a. **Day Colors:** Screen shows brighter colors.

   b. **Night Colors:** Screen shows darker subdued colors. No other background colors can be selected while in night color mode.

   c. **Automatic Colors:** Screen automatically adjusts day/night color modes according to ambient light measured by the sensor in the speedometer.
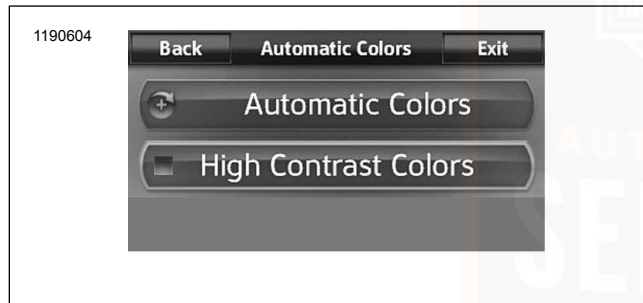
Figure 24. Colors

HIGH CONTRAST DAY COLORS

High contrast day colors can be activated to enhance visibility of the screen in bright sunlight.

This feature is activated through the color settings, or by holding the VEHICLE INFORMATION switch. The feature cannot be activated while the display is showing night colors.

1. See Figure 25. Select **Home** > **Setup** > **Colors**.

2. With **Day Colors** or **Automatic Colors** selected, check the **High Contrast Day Colors** checkbox.

Figure 25. High Contrast Day Colors

ENGLISH UNITS/METRIC

1. Select **Home** > **Setup**.

NOTE

The English unit/metric selection also affects how units are displayed in the odometer.

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2. Press the multiselect button until the desired unit type is displayed.
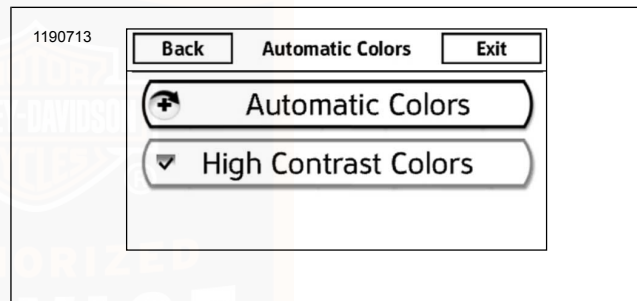
    a. **English Units:** Measurements are displayed as miles, yards, feet, mph, gallons, degrees F and PSI.

    b. **Metric:** Measurements are displayed as kilometers, meters, km/h, liters, degrees C and bar.

CLOCK

1. See Figure 26. Select **Home** > **Setup** > **Clock**.

2. **12/24 hour:** Select 12-Hour or 24-Hour clock mode.

3. **Time zone:** Select the time zone.

4. **Daylight savings time (DST):** The system does not automatically account for daylight savings time. Select **DST On** to advance the clock one hour (during spring in the northern hemisphere). Select **DST Off** to return to the original time.

5. Manually adjusting time:

    a. **Adjusting time:** Manually adjust the clock to the current time with the + and - controls.

1.	**Time adjustment**
2.	**Daylight savings time (on/off)**
3.	**Time zone**
4.	**12/24 hour**

Figure 26. Clock Settings

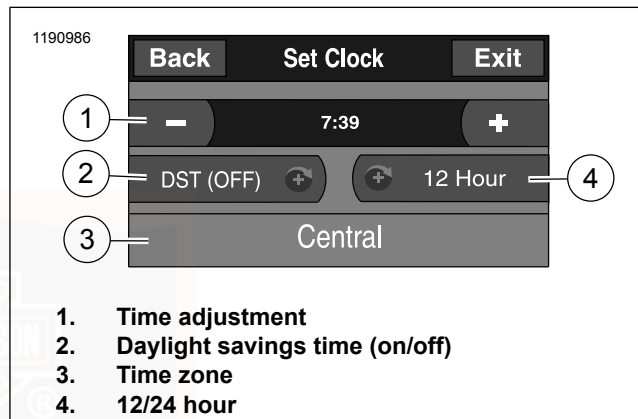## SPEAKER/HEADSET SELECTION

1. See Figure 27. Select **Home** > **Setup** > **Speaker/Headset**.

2. For each category shown, select whether the audio routes through the headsets or speakers.

    a. **Music/Media:** Tuner stations and media files.

    b. **Communication:** Intercom and phone.

    c. **Prompts:** Voice recognition, text-to-speech and other audio feedback from the radio.
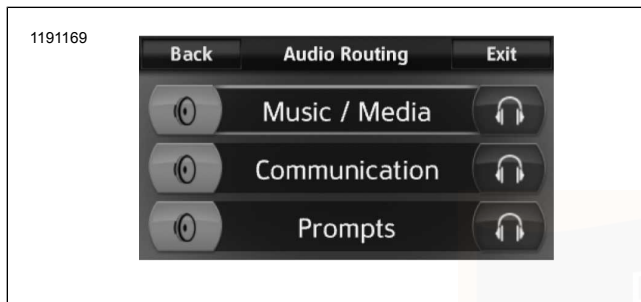
Figure 27. Speaker/Headset Selection

Figure 28. Audio Setup Screen

AUDIO SETTINGS: BASS/TREBLE

1. See Figure 28. Select **Home** > **Setup** > **Audio Setup**.

2. Adjust the Bass and Treble settings using the + and - controls. The tone settings are applied for all audio output through the speakers and headsets.

FADE

The fade setting adjusts the balance of volume between the front and rear speakers. By default, the fade is set at the center with an equal balance of volume. Some vehicles have a fade adjuster as shown in Figure 29.

The fade setting does not affect headset or microphone audio levels. Fade does not apply to models without rear speakers.

1. Select **Home** > **Setup** > **Audio Setup**.

2. Select **Fade/Speed Volume**.

3. Adjust the front to rear fade.

   Press the R (rear) or F (front) controls to adjust the balance of the speaker volume between the front and

34 System Settings

rear speakers. The center circle indicates an equal balance of volume to both front and rear speakers.

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Figure 29. Fade/Speed Volume Adjustment Screen

SPEED VOLUME

The speed volume setting adjusts the volume according to vehicle speed. This function allows the volume to be set to a comfortable level while the motorcycle is stopped or traveling slowly. The volume automatically increases to compensate for engine, wind and other ambient noise factors as vehicle speed increases.

The speed volume setting also affects the voice activation (VOX) of the intercom. This prevents ambient noise from activating VOX transmissions when at greater speeds. It also prevents the need to continually adjust the VOX sensitivity setting.

Speed volume is also known as automatic volume control (AVC) on previous Harley-Davidson sound systems.

1. Select **Home** > **Setup** > **Audio Setup**.

2. See Figure 29. Select **Fade/Speed Volume**.

3. Adjust speed volume to one of four different levels. Each level defines the amount of gain that is added to the volume as vehicle speed increases.

NOTE

*   *Setting speed volume to the lowest level effectively turns off this feature. The volume remains constant while riding. However, the radio has equalizers with dynamic filters which modify certain frequency bands depending on speed. So there may still be a change in sound as the speed changes, even with speed volume turned off.*

*   *The effects of the speed volume will be less noticeable under certain conditions, such as when the volume is already turned up near its maximum setting.*

FEEDBACK PROMPTS

The prompt volume affects audible feedback, such as voice recognition prompts, text-to-speech features and so on. Prompt volume can also be adjusted by the volume hand controls while the prompt is playing.

1. See Figure 30 Select **Home** > **Setup** > **Feedback**.

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2. **Prompt volume:** Adjust prompt volume.

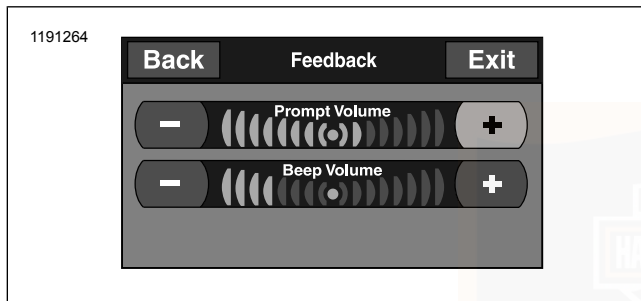3. **Beep volume:** Adjust beep volume.

Figure 30. Feedback Settings

REAR CONTROLS

1. See Figure 31. Select **Home** > **Setup**.

2. Select the **Rear Controls** checkbox.

   a. **Checked:** All passenger controls on the side of the Tour-Pak function normally.

   b. **Unchecked:** The passenger volume and PTT controls continue to operate normally. However, the MODE/UP/DN switch is disabled. The passenger cannot change audio sources or tune/seek to other channels or songs.

Figure 31. Rear (Passenger) Controls

CLASSIC MODE

When Classic Mode is selected, the HOME hand control switch will toggle through available audio sources, rather than displaying the Home screen. This operates similar to the MODE SEL switch on previous Harley-Davidson motorcycles. For example, repeatedly pressing the HOME switch on the handlebar will toggle through tuner bands (AM, FM, WB and so on) and through media devices.

To display the Home screen while in Classic Mode, press and hold the HOME hand control switch or use the HOME switch on the radio faceplate.

1. See Figure 32. Select **Home** > **Setup**.

2. Check the **Classic Mode** checkbox to enable.

Figure 32. Classic Mode Setting

GLOBAL PRESETS

The global preset feature shows a common set of presets for all audio sources. Presets for all tuner band stations (AM, LW, MW, FM, WB), media files are commonly displayed on all audio source screens. This allows easier access to the most commonly used channels and media, without having to manually change to different devices or audio sources. When enabled, the system supports up to 20 global presets.

When global presets are not enabled, each tuner band or media device will only display its own unique presets. The total number of presets is different when global presets are not enabled. Phone contacts cannot be stored as global presets. See Presets (Page 45) for more information.

1. See Figure 33. Select **Home** > **Setup** > **Global Presets**.

2. **Enable/disable global presets:** Check (or uncheck) the **Enable** checkbox.

3. **Set pages:** Refer to Table 18. Select up to four pages of global presets.

4. **To set a global preset:** Select the desired audio source (tuner station or media file). Press and hold the desired preset button to store the new preset.

5. **To select a global preset:** While displaying any audio source, select the desired preset. The system changes to the necessary band or media device to play the selected preset.
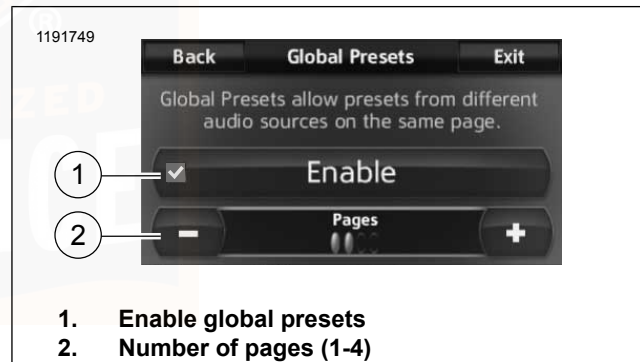

1. Enable global presets
2. Number of pages (1-4)

Figure 33. Global Presets

Table 18. Global Presets: Page Setting

PAGES	TOTAL PRESETS
1 page	6 presets
2 pages	10 presets
3 pages	15 presets
4 pages	20 presets

BLUETOOTH

See the Bluetooth (Page 61) section and other applicable sections for configuration and operation of Bluetooth devices.

RING TONES

See Selecting Ring Tone (Page 78) for setting up or installing a new ring tone.

SYSTEM INFORMATION

1. Select **Home** > **Setup** > **System Information**.

2. Select the information to display.

   a. **Software:** Shows the current software version installed on the radio. Software updates are available on www.h-d.com/boom (or the Boom! Box portion of www.h-d.com/touring). See Software Update (Page 38) for instructions.

   b. **Hardware:** Shows the Harley-Davidson part number, supplier part number and a unique serial number for the radio. Use the Harley-Davidson part number along with the information in Features and Specifications (Page 5) to determine the features available on this radio.

   c. **EQ:** Shows the equalizer (EQ) file installed in the radio. This is based on the vehicle, fairing type and speaker configuration. The EQ may be updated by the dealer when adding new accessory speakers to the motorcycle.

SOFTWARE UPDATE

Harley-Davidson periodically provides software updates for the radio on www.h-d.com/boom. Check if you are using the latest version of software and update the software when a newer version is available. Updates can be done by using the following procedure or by bringing the vehicle to an authorized Harley-Davidson dealer.

1. Select **Home** > **Setup** > **System Information** > **Software**.

2. Compare the software version in the radio with the latest version of software available on www.h-d.com/boom (or www.h-d.com/touring > Owners > Software Downloads).

3. **Versions are the same:** You have the latest software available. There is no need to update. **Higher software level is available on website:** Continue with procedure to update your radio software.

NOTE

Do not interrupt the installation process. Leave the vehicle and radio turned on, and keep the USB drive installed until the installation process is complete.

4. Download the latest software version from the website. Select the proper update for your radio type (4.3) and the proper region/vehicle configuration, if applicable.

5. Unzip the software package to a folder. The folder includes an installation file with an .ISO extension.

6. Copy the .ISO file to the root directory (the first or top directory) of a USB drive. Some updates require up to an 8 GB USB drive.

7. **Keyed ignition motorcycle:** Turn the vehicle ignition switch to ACCESSORY. **Keyless ignition motorcycle:** With the OFF/RUN switch turned off, press and hold the trigger switch until the vehicle enters accessory mode.

8. Turn on the radio.

9. Connect the USB drive to the vehicle USB port. The radio detects the new software and prompt for the update.

10. See Figure 34. Select **Yes**. The software installation begins. The display prompts to remove the USB drive when the update is complete.

NOTE

If the incorrect file is on the USB drive, the radio displays the error message "The ISO image on the attached USB is corrupt or incompatible".

Figure 34. Software Update

PRIVACY RESET

A privacy reset can be performed by the dealer to remove all personal information from the radio memory. This can be useful when selling the motorcycle or when completely reconfiguring the radio with new personal settings. The reset

will remove information and history from the radio such as phone pairing, downloaded phone books, call history, favorites and presets. A privacy reset does not affect other basic settings like the clock or audio configuration. See an authorized Harley-Davidson dealer to have this service performed.

FACTORY RESTORE

A factory restore can be performed by the dealer to restore the radio to its original factory settings. This removes all user settings in radio. See an authorized Harley-Davidson dealer to have this service performed.

FAVORITES

The system stores up to six favorites, plus an additional favorite for the FAV switch on the radio faceplate. Favorites can be used to quickly access a tuner band, frequency, media device or media file that is commonly used.

Phone contacts and files from a Bluetooth-connected device cannot be saved as favorites.

SETTING A FAVORITE

1. Tune to a radio station, weather band channel or file from USB-connected device.

2. **Store to FAV switch (on radio faceplate):** Press and hold the FAV switch. **Store to Favorite screen:** Select **Home** > **Fav**. Press and hold one of the favorite preset buttons from the list.

3. See Figure 35. Select one of the following from the list: **Currently playing audio source:** Shown at the top of the list. **Tuner:** Sets the favorite to a selected tuner band (AM, FM, WB, LW or MW as applicable). **Media:** Sets the favorite to a USB-connected device.

NOTE

The tuner and media options only set the favorite to the selected device, rather than to a particular station or media file.
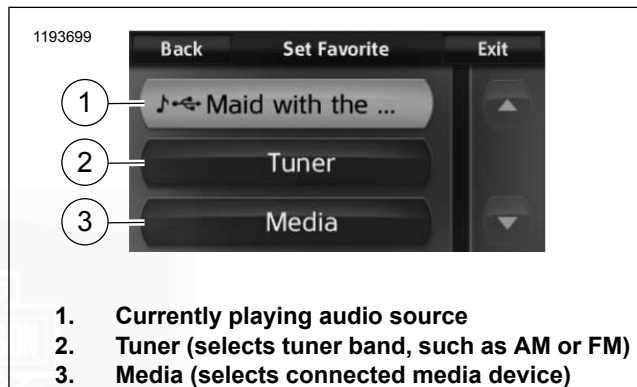

1. Currently playing audio source
2. Tuner (selects tuner band, such as AM or FM)
3. Media (selects connected media device)

Figure 35. Setting a Favorite

SELECTING A FAVORITE

If selecting a file from a removable media device, the radio will do nothing unless the media device is connected.

FAV switch (on radio faceplate): Briefly press FAV switch to select the audio source.

Favorite screen: See Figure 36. Select **Home** > **Fav**. Select a favorite from the list.

Figure 36. Favorites List

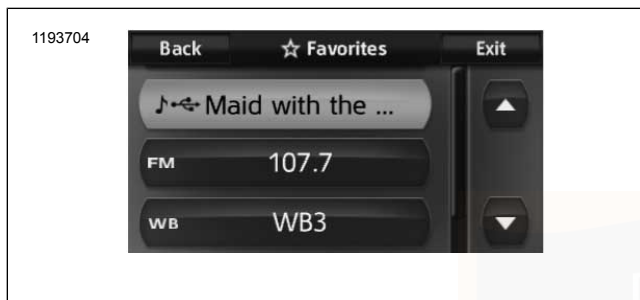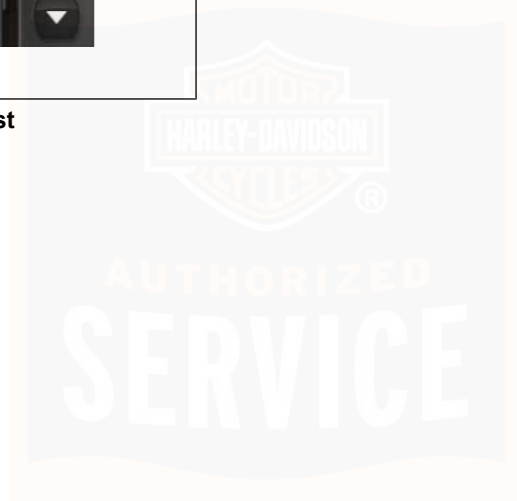42 Favorites

TUNER

The radio has a multi-band stereo receiver with tune, seek and scan functions. The tuner supports RDS or RBDS data display (according to vehicle configuration). The tuner can be configured to search for particular program types (such as country music or news programming). In some radios, the system can accumulate a list of stations within range, along with the current song or program being played.

See Figure 37 for a description of the Tuner screen components. See Features and Specifications (Page 5) for features supported for your vehicle or region.
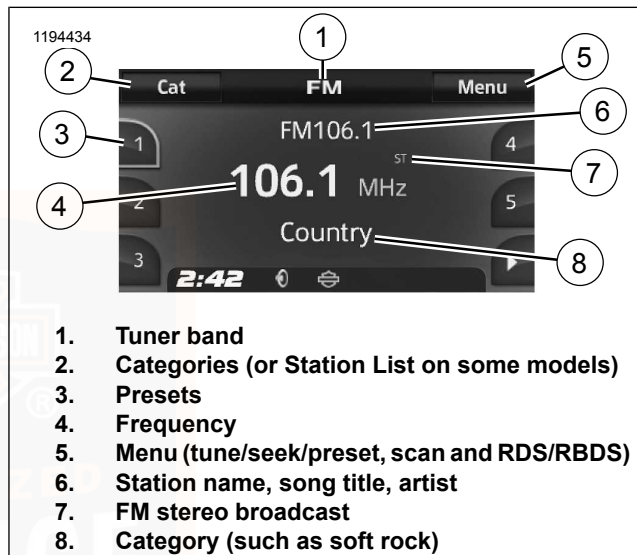

1. **Tuner band**
2. **Categories (or Station List on some models)**
3. **Presets**
4. **Frequency**
5. **Menu (tune/seek/preset, scan and RDS/RBDS)**
6. **Station name, song title, artist**
7. **FM stereo broadcast**
8. **Category (such as soft rock)**

Figure 37. Tuner Screen

SELECTING A BAND: MENU BUTTONS

Radios support different frequency bands according to region and radio type. See Features and Specifications (Page 5).

1. Select **Home** > **Tuner**.

2. Select the desired band (AM, LW, MW, FM or WB, as applicable).

SELECTING A BAND: HOME HAND CONTROL, CLASSIC MODE

When Classic Mode is enabled, repeatedly press the HOME hand control switch to rotate through all available bands and audio sources.

TUNE/SEEK/PRESET SETTINGS

The PREVIOUS/NEXT hand control switch can be configured to tune, seek or select the next preset in the tuner.

When tuning or seeking, the tuner continues to wrap around at the beginning or end of the frequency range.

1. With a tuner band displayed, select **Menu**.

2. See Figure 38. Press the Tune/Seek/Preset multiselect button until the desired function is displayed.

   a. **Tune:** The PREVIOUS/NEXT hand control switch will advance to the next frequency increment. Holding the PREVIOUS/NEXT switch accelerates through frequencies.

   b. **Seek:** The PREVIOUS/NEXT hand control switch will seek the next station. Holding the switch accelerates through the frequencies. The tuner then seeks the next available station upon releasing the switch.

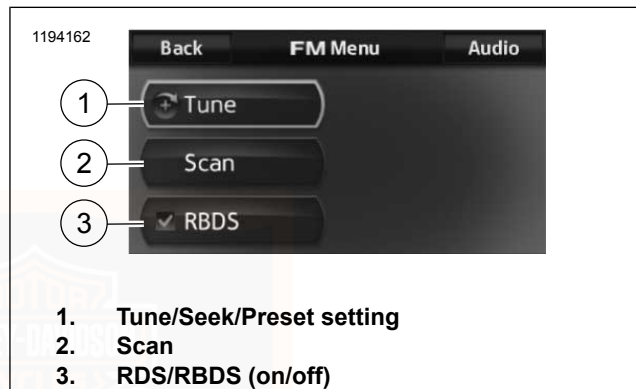   c. **Preset:** The PREVIOUS/NEXT hand control switch will select the previous or next preset.

44 Tuner

1. **Tune/Seek/Preset setting**
2. **Scan**
3. **RDS/RBDS (on/off)**

Figure 38. Tuner Menu

SCANNING STATIONS

1. With a tuner band displayed, select **Menu**.

2. Select **Scan**. The radio begins scanning through the frequencies. The radio remains on each station for five seconds before continuing the scan. The scan icon is shown in the status bar during this process. If the scan does not find any strong station within two complete passes through the band frequencies, the scan automatically cancels.

3. To select a station, press the CURSOR/SELECT switch on the right hand controls.

PRESETS

Presets can store preferred radio stations for easy access. The radio has 15 presets for FM band, and 6 presets for other bands. The radio can also be configured with global presets. See Global Presets (Page 37).

1. Tune to a station.

2. Press and hold one of the preset buttons until a beep sounds. The frequency is stored to the selected preset button.

3. To tune the preset in the future, select the preset button.

CATEGORIES (CAT)

The FM band can be configured to seek or scan for particular types of radio programming (such as news, sports or classical music). When categories are selected, the radio only seeks or scans for the stations that are broadcasting programs with the selected category codes. Not all stations broadcast these codes. When categories are selected, the FM band displays CATEGORIES with a filter symbol as shown in Figure 39.

Categories are also known as program types (PTYs).

Figure 39. Categories Symbol

SELECTING CATEGORIES

Refer to Table 19 for categories available in North America.

1. While in the FM band, select **Cat** to access a list of all available categories.

Tuner 45

2. See Figure 40. Select categories from the list.

   a. **Individual categories selected:** Radio seeks or scans only stations from the selected categories. The FM screen shows the category filter icon.

   b. **Clear All (or no categories selected):** Radio seeks or scans all stations.

   c. **Set All:** Radio seeks or scans for stations that are broadcasting any of the program types. The radio does not stop on any station unless it is broadcasting a program type code. The FM screen shows the category filter icon.
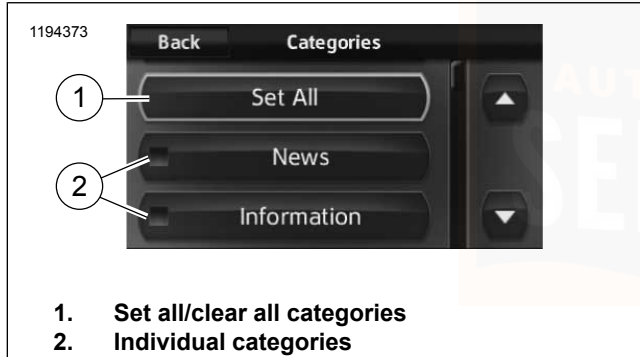

1. Set all/clear all categories
2. Individual categories

Figure 40. Setting Categories

Table 19. FM Categories: RBDS, North America

OPTION	OPTION
• Set/Clear All	• Nostalgia
• News	• Jazz
• Information	• Classical
• Sports	• Rhythm & Blues
• Talk	• Soft Rhythm & Blues
• Rock	• Foreign Language
• Classic Rock	• Religious Music
• Adult Hits	• Religious Talk
• Soft Rock	• Personality
• Top 40	• Public
• Country	• College
• Oldies	• Weather
• Soft	

RBDS/RDS

Some radio stations broadcast data which can be used to display station identification, program information and support other features in the radio (depending on the region).

Radio Broadcast Data System (RBDS) is primarily used in North America. Stations broadcasting RBDS typically provide information such as radio station name, artist and song title to the radio.

Radio Data System (RDS) is primarily used in Europe. Stations broadcasting RDS data may also include time updates, weather, traffic and other regional information.

Not all radio stations transmit RBDS or RDS data. When RBDS or RDS is unchecked, or if the service is not available, only the radio frequency is displayed.

Enable RDS/RBDS: From FM tuner screen, select **Menu**. Check the **RDS** or **RBDS** checkbox.

RDS Features

For dual tuner radios with RDS capability, three separate RDS features can be enabled.

Alternate Frequency Switching (AF): The radio monitors the signal strength of other stations playing the same program. The radio automatically switches to another station if the signal quality is better.

Regionalization (REG): Some radio stations split their program into separate regional programs on different frequencies. Regionalization automatically uses frequencies of regional related stations for alternate frequency jumps.

Traffic Program/Traffic Announcement (TP/TA): The radio monitors stations for traffic announcements. When a traffic announcement is discovered, the radio automatically tunes to the station playing the announcement. The Traffic Announcement icon (TA) is displayed in the status bar. When finished, the tuner returns to its previous operation. The status bar displays the Traffic Program (TP) icon when tuned to a station that regularly plays traffic announcements. When enabled, the radio also monitors stations for Enhanced Other Networks (EON) transmissions.

WEATHER BAND

Weather band is supported on radios for North America. Equipped radios can tune to any of the seven weather band frequencies. The six weather band presets are originally set to the first six weather band frequencies.

In the US, the National Oceanic and Atmospheric Administration (NOAA) operates National Weather Radio (NWR) stations across the country. These stations continually broadcast weather announcements using the seven different frequencies designated for weather band use as shown in Table 20.

In Canada, Weatherradio Canada broadcasts weather information on the same set of frequencies.

**Listen to weather band:** Select **Home** > **Tuner** > **WB**.

Tune to weather band frequency: Use the PREVIOUS/NEXT hand control switch to advance through the seven weather band frequencies.

Using weather band presets: Refer to Table 20. Select preset (1-6).

Changing weather band preset: Tune to a weather band frequency. Press and hold a preset to store the channel.

Table 20. Weather Band Channels

PRESET	CHANNEL	FREQUENCY
1	WB1	162.400 MHz
2	WB2	162.425 MHz
3	WB3	162.450 MHz
4	WB4	162.475 MHz
5	WB5	162.500 MHz
6	WB6	162.525 MHz
N/A	WB7	162.550 MHz
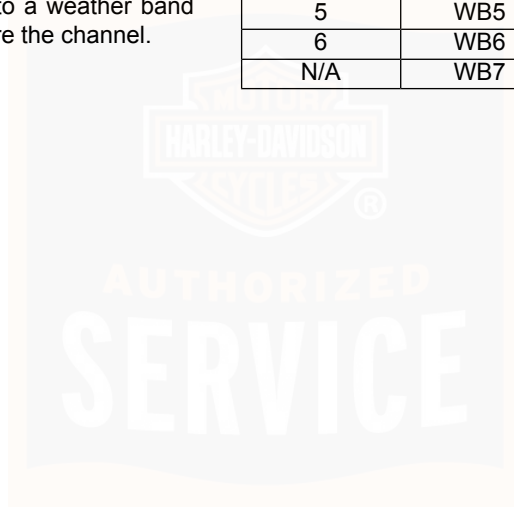
MEDIA SCREEN

See Figure 41. The Media screen shows the status of the current playing song.

1. Media device
2. Find file (USB-connected device)
3. Media menu (seek/preset, scan, track list, repeat, shuffle)
4. Song title
5. Artist
6. Album
7. Time elapsed
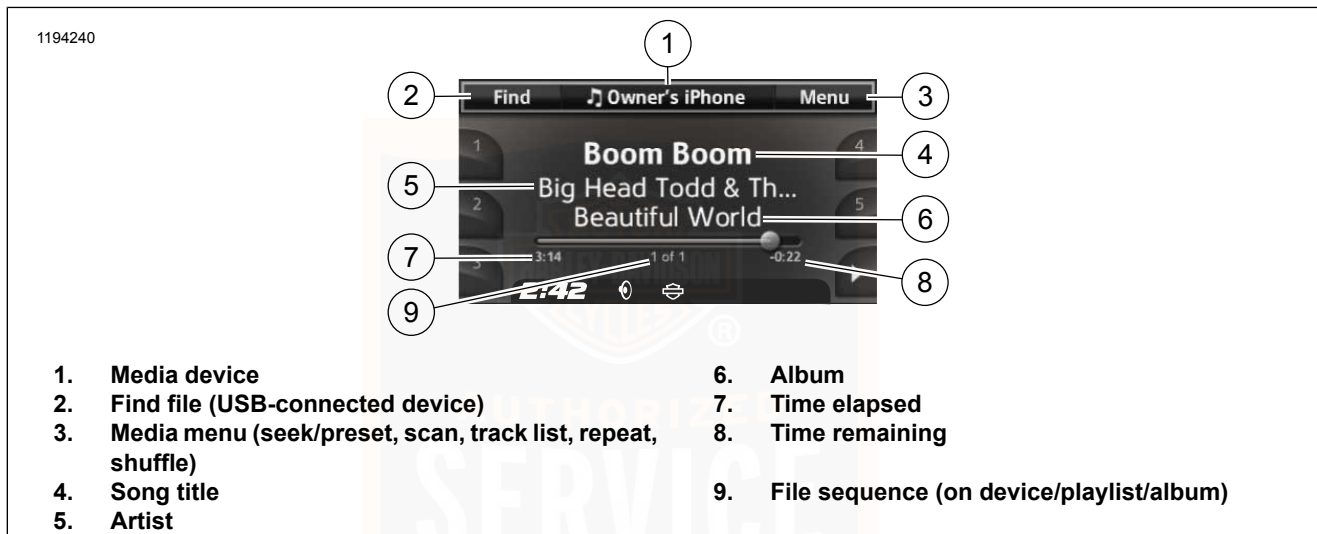8. Time remaining
9. File sequence (on device/playlist/album)

Figure 41. Media Screen

MEDIA DEVICES

The radio supports various types of USB and Bluetooth-connected media devices. As a general guideline, support for devices is listed in Table 21. Some features or menus may not be available depending on device, file type or connection type.

For mass storage devices (such as USB drives), the file organization on the device can impact performance. For best performance and indexing of files, store media files at the root directory of the USB device, rather than in multiple levels of folders.

Table 21. Media Device Support

DEVICE	DEVICES SUPPORTED	CONNECTIONS	FILES SUPPORTED	FEATURES OR LIMITATIONS
iPod	iPod supporting iAP	Apple proprietary connector.	All iPod supported file types	Supports all find features. Ring tone files cannot be downloaded. iPods with a hard drive can be damaged and are not recommended.
USB mass storage device	USB drive (exFAT, FAT16, FAT32, NTFS, HFS+) or SD card	Direct connection to USB port. USB connector and reader required for SD card.	MP3, MP4, MPEG-4 AAC, M4A, M4B, WAV, WMA	May support find features. NTFS-formatted drives can only be used for read-only functions (such as playing media).
Media player	USB-connected phone. PlaysForSure compatible device. Media Transfer Protocol (MTP) compatible device.	USB cable.	MP3, MP4, MPEG-4 AAC, M4A, M4B, WAV, WMA	May support find features.
Bluetooth device	Varies. Requires minimum Bluetooth profile interoperability.	A2DP/AVRCP profiles.	Bluetooth device dependent. Bluetooth audio is streamed by the device and not decoded by radio.	No preset capability. File metadata may not be displayed. Audio from an app or internal player can be streamed to radio.

CONNECTING MEDIA DEVICE: USB

1. With motorcycle stopped, connect the media device to the USB port. Use a connector or reader as needed.

2. If the media device is not automatically recognized, check the device settings. Some devices need to be configured to connect as a hard drive or as a media device before media files can be accessed. See the device manual.

NOTE

- *If connecting a device for the first time, the radio begins playing the first song found on the device. If reconnecting a previously used device, the radio attempts to resume the last played file.*

- *The radio will begin collecting file information from the device. Some information and features may not be available until the radio has finished synchronizing with the device. The radio will play remaining files in alphabetical order.*

CONNECTING MEDIA DEVICE: BLUETOOTH

1. With motorcycle stopped, pair the device. See Pairing a Bluetooth Device (Page 61).

2. Select **Home** > **Media**.

3. Select the device from the list.

DEVICE PLAYERS AND APPLICATIONS: BLUETOOTH

Streaming audio can be played from an internal player or application on a connected Bluetooth device. The radio can control some features, such as previous or next file selections within some players or applications.

1. With motorcycle stopped, connect with the Bluetooth device.

2. Start the media application or internal player within the Bluetooth-connected device. The audio begins playing through the motorcycle speakers or headsets.

3. Use the PREVIOUS/NEXT hand control switch and POWER/MUTE switch on the radio faceplate to operate the application or internal player, as applicable.

NOTE

The volume level and equalization within the device can affect the streaming volume to the radio. If sound cannot be heard or is distorted, check the volume within the application or device.

SELECTING MEDIA DEVICE

1. See Figure 42. Select **Home** > **Media**. A list of paired or connected devices is displayed. Items are marked with either a USB or Bluetooth symbol.

Media 51

2. Select device from the list. If connected, the first song from the device begins playing.

1194245

1. **USB-connected device**
2. **Media player**
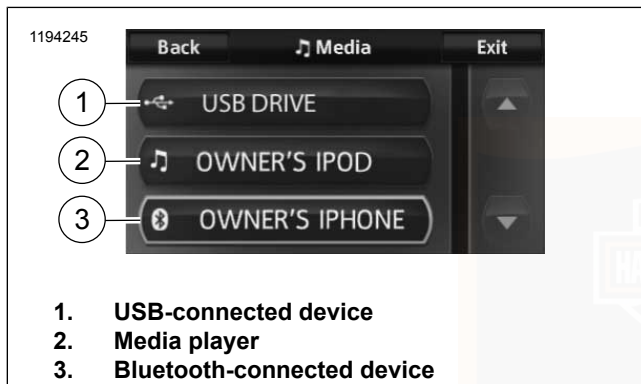3. **Bluetooth-connected device**

Figure 42. Selecting Media Device

PLAY PREVIOUS/NEXT MEDIA FILE: PREVIOUS/NEXT PRESET

Depending on the configuration, the PREVIOUS/NEXT hand control switch will either advance through each song individually, or through each preset that is programmed for the device.

1. Select **Home** > **Media** > **Menu**.

2. Press the multiselect button to show **Seek** (to advance through each song) or **Preset** (to advance through each preset).

3. Press the PREVIOUS/NEXT hand control switch to advance to the previous or next song (or preset) in the device.

PAUSE, REWIND, OR FAST FORWARD MEDIA FILE

Pause: Press the POWER/MUTE switch to pause or unpause media.

Rewind: Press and hold PREVIOUS/NEXT switch to the left. Rewinding will accelerate as switch continues to be held.

Fast Forward: Press and hold PREVIOUS/NEXT switch to the right. Fast forwarding will accelerate as switch continues to be held.

SCANNING MEDIA FILES

1. Select **Home** > **Media** > **Menu**.

2. See Figure 43. Select **Scan**. The radio begins playing each song on the device sequentially, dwelling on each song for five seconds. The Scan icon is displayed on the screen.

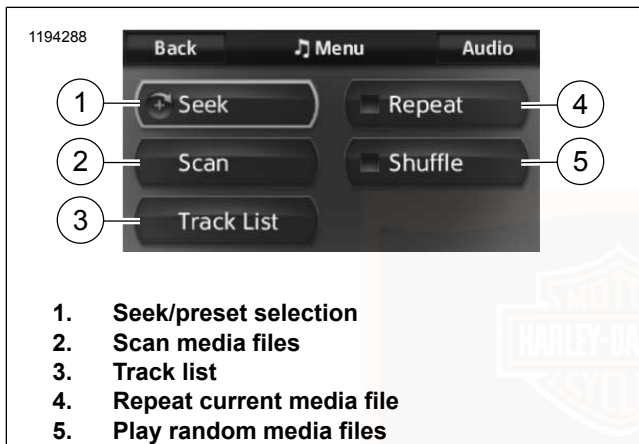3. Press the SELECT/ENTER hand control switch to continue playing the current song.

52 Media

1194288

1. **Seek/preset selection**
2. **Scan media files**
3. **Track list**
4. **Repeat current media file**
5. **Play random media files**

Figure 43. Media Menu

REPEAT CURRENT FILE

1. Select **Home** > **Media** > **Menu**.

2. Check the **Repeat** checkbox. The Repeat icon is displayed and the current file will play repeatedly until unselected.

PLAY RANDOM FILES: SHUFFLE

1. Select **Home** > **Media** > **Menu**.

2. Check the **Shuffle** checkbox. The Shuffle icon is displayed. The radio will randomly select files from the device.

NOTE

An iPod may exclude audio books and podcasts from shuffle selection.

PLAY SONGS FROM TRACK LIST

The track list shows a full list of all songs on the connected device. When selecting a song from the list, the radio remains in the track list and does not transition back to the media screen. Track lists are not available for Bluetooth streaming media devices.

1. Select **Home** > **Media** > **(Desired media device)** > **Menu**.

2. See Figure 44. Select **Track List**. A complete list of all songs from the currently selected device, playlist, artist or album are displayed.

3. Select a song from the list to play.

4. Select the information button ("i") to display information for the selected song or the entire track list (such as the album for the currently displayed tracks).
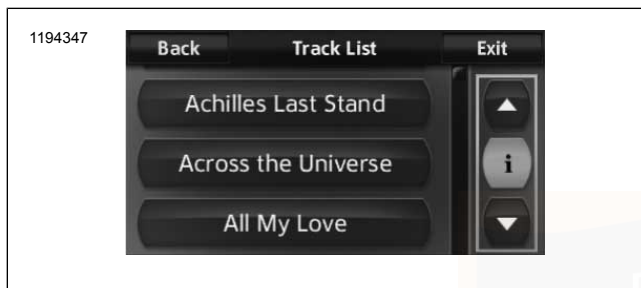
Figure 44. Media Track List

MEDIA PRESETS

The radio stores up to 20 presets for each connected device. The screen only shows media presets for the currently connected device. The media presets are retained in memory and are available the next time the media device is connected. Presets are only available for USB connected devices.

Set media preset: With song playing, press and hold one of the presets. The radio beeps and the preset is stored.

Select media preset: Press desired preset. Song will begin playing.

Seeking presets: In the media screen, select **Menu**. Select **Presets**. The PREVIOUS/NEXT hand control switch will advance through each of the presets, rather than through every song on the device.

FINDING A MEDIA FILE

See Figure 45. The Find feature can be used to browse for different types of media files on USB-connected media devices as shown in Table 22. File browsing features are not available for Bluetooth streaming media devices.
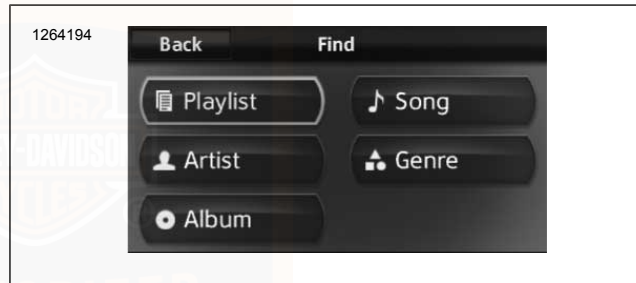
Figure 45. Finding a Media File

Table 22. Finding a Media File

CATEGORY	DESCRIPTION
Artist	Lists all songs by selected artist. Radio will play a selected song, then plays remaining songs by the artist.
Album	Lists all songs on selected album. Radio will play a selected song, then plays remaining songs on the album.
Genre	Lists songs by selected genre.
Song Title	Searches for song by title.

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Table 22. Finding a Media File

CATEGORY	DESCRIPTION
Playlist	List of all playlists on device.
Podcast	List of all podcasts on device (Apple devices only).
Audio Book	List of all audio books on device (Apple devices only).
Video, TV Show, Movie or Music Video	List of video files on device (only audio portion is played).

FINDING A MEDIA FILE: PLAYLIST

A playlist is a file stored on the device which includes a sequential list of songs. All playlists native to the iPod are supported. The radio also supports the following playlist types for other USB-connected devices.

- Windows Media Player Advanced Stream Redirector format (*.asx)

- Windows Media Player Playlist (*.wpl)

- M3U Moving Pictures Expert Group Audio Layer 3 Uniform Resource Locator (*.m3u)

- PLS file (*.pls)

- iTunes XML (*.xml)

- RealPlayer Metadata Package (*.rmp)

NOTE

- *M3U, PLS and WPL playlists only allow relative pathnames to files. Absolute pathnames are not supported.*

- *All XML files on USB mass storage media will be displayed, even if the files are not actually XML-formatted playlists.*

1. Select **Home** > **Media** > **Find**.

2. Select **Playlist**.

3. Select item from list.

4. Select song from the playlist. To play the entire playlist, select the first song.

FINDING A MEDIA FILE: ARTIST, ALBUM OR GENRE

1. Select **Home** > **Media** > **Find**.

2. Select **Artist**, **Album** or **Genre** to browse.

3. Select item from list.

4. Select song from the list. The radio begins playing files for the artist, album or genre, starting at the selected file. To play all songs for this artist, album or genre, select the first song from the list.

FINDING A MEDIA FILE: SONG TITLE

1. Select **Home** > **Media** > **Find**.

Media 55

2. See Figure 46. Select **Song**. A full list of all songs on the device is displayed.

3. Select a song from the list. If necessary, select the letter jump button between the scroll controls and type the first letter of the song name.
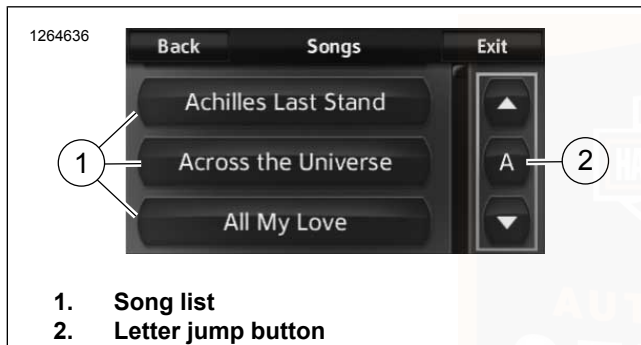

1. **Song list**
2. **Letter jump button**

Figure 46. Finding a Media File: Song

FINDING A MEDIA FILE: PODCAST

The Podcast category is displayed in the Find menu when a properly configured podcast is identified on the device. An audio file (ID3 tag) must be coded properly to display on the radio as a podcast. If needed, right-click on the file in iTunes and select the proper option for characterizing the file (movie, music, video, podcast, and so on).

Some files identified as podcasts are not actually podcast files, but just media files. These files may be listed with other song files.

1. Select **Home** > **Media** > **Find**.

2. Select **Podcast**.

3. Select a podcast from the list.

4. See Figure 47. Select an episode from the list.

1. **Podcast program name**
2. **Episodes**
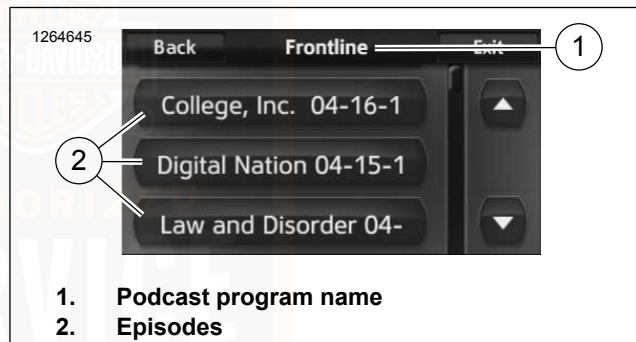
Figure 47. Podcast

FINDING A MEDIA FILE: AUDIO BOOK

The audio book option is displayed when audio book files have been discovered on the device. Some audio books are MP3 files which may be listed with other song files.

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1. Select **Home** > **Media** > **Find**.

2. Select **Audio Book**. A list of audio books is displayed.

3. Select an audio book from the list.

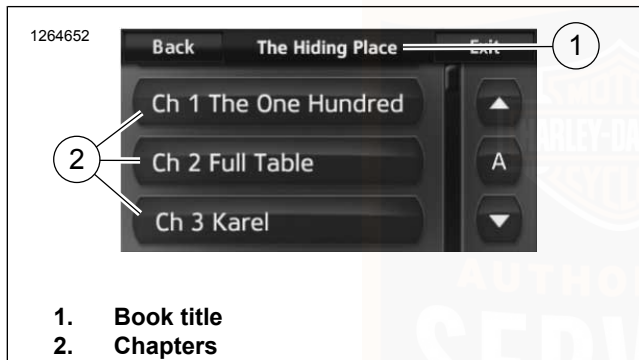4. See Figure 48. Select a chapter from the audio book, if applicable.

1. **Book title**
2. **Chapters**

Figure 48. Audio Book

SAVING MEDIA FILE AS FAVORITE

See Favorites (Page 41).

SAVING MEDIA FILE AS RING TONE

Media from an iPod and files larger than 2 MB cannot be downloaded as a ring tone.

1. With media file playing, select **Menu**. If the current file type is compatible for use as a ring tone, a Ring Tone button is displayed.

2. Select **Ring Tone**. The radio will attempt to download the media file for use as a ring tone. The radio allows only one ring tone to be downloaded into the radio. Replace the existing file if necessary.

3. Select **OK**.

NOTES

AUDIO SYSTEM CARE

Use only Harley-Davidson recommended products and methods to keep the radio, speakers and other audio system components clean and in good condition. Do not use any abrasives, polishes or rubbing compounds to clean the screen or other components. Do not use any ammonia-based cleaners on the screen. Use of other products or methods may cause damage to components.

Cleaning the Radio

Spray a light amount of HARLEY GLOSS on a MICROFIBER DETAILING CLOTH. Be careful to gently remove any sediments without rubbing them into the screen. Apply circular motions from the center and outwards. Use a dry MICROFIBER DETAILING CLOTH to dry the screen. Repeat the process as necessary.

NOTE

Do not use any screen enhancing chemicals or products. These can damage the screen surface.

Speaker Care

If a haze develops on speakers with a protective grille, use HARLEY SEAT, SADDLEBAG, AND TRIM CLEANER and a SOFTCLOTH or SOFT DETAILING PAD to clean. Do not apply wax or any other similar products on speaker grilles.

Do not use compressed or forced air on speakers.

Vehicles with saddlebag speakers are designed to prevent water intrusion and to allow water to drain during washing or riding in all weather. To remove any standing water from saddlebag speakers, open the saddlebags and gently shake any remaining water from the speakers.

CARE AND CLEANING

NOTES

ENABLING BLUETOOTH

Bluetooth must be enabled before pairing or connecting with Bluetooth devices.

1. Select **Home** > **Setup** > **Bluetooth Setup**.

2. See Figure 49. Check the **Bluetooth** checkbox to enable.
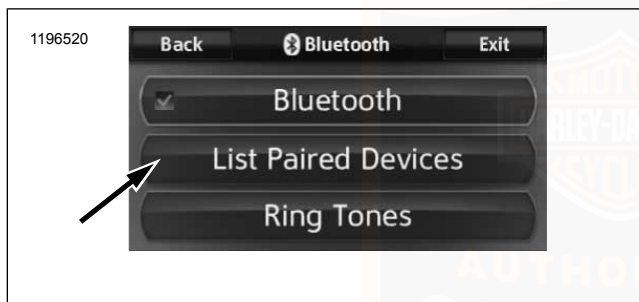

Figure 49. Bluetooth Setup Menu

PAIRING A BLUETOOTH DEVICE

A maximum of six devices can be paired with the radio at one time. However, the radio only maintains an active Bluetooth connection with up to one device for phone service and one device for media at a time.

The motorcycle identifies itself as "H-D Radio". The name for the Bluetooth device is specified within the settings for your device.

NOTE

Phones may request permission to share information with "H-D Radio" (such as phone book contacts and text messages). These requests may occur during the pairing process or on other occasions when the phone is connecting with the radio.

1. In the Bluetooth-compatible device, enable Bluetooth and set the device as discoverable. See the manual for your device.

2. In the radio, select **Home** > **Setup** > **Bluetooth Setup**.

3. See Figure 50. Select **List Paired Devices** > **Add a New Device**. All discoverable devices within range appear in the list of found devices.

4. Select the device to be paired from the list.

5. The device displays a PIN code and prompt for permission to pair with "H-D Radio". Allow the pairing within the device.

6. See Figure 51. In the radio, select **Yes**. The radio attempts to pair and connect with the device.

7. The system prompts for an emergency phone number if one is not already stored in the system. Enter a phone number to call in the event of an emergency (such as 911 in the US).

8. Select **Save** in lower right corner of the screen.

Bluetooth 61

9. The system begins downloading the phone book from the device. The Phone Book icon is displayed in the status bar during the download process. During this process, the phone may prompt for permission to share the phone book.
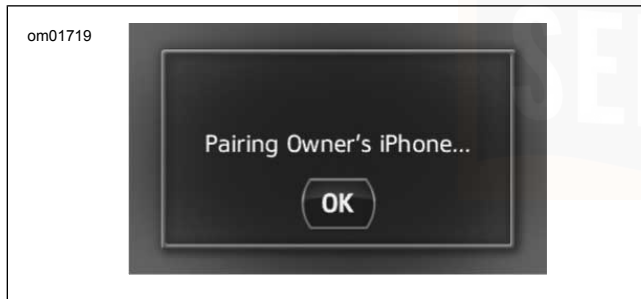

Figure 50. Adding a New Device

Figure 51. Pairing a Device: iPhone Example Shown

CONNECTING/DISCONNECTING A BLUETOOTH DEVICE

A Bluetooth device can be connected for phone service, media, or both. The system only allows one device to be connected for each Bluetooth service (phone or music).

The radio will automatically try to connect with the phone or media device after pairing. For some devices, a setting is required within the device before it will automatically connect. See the manual for the device.

To manually connect or disconnect with a Bluetooth device after pairing, use the following procedure. Also see Connecting Media Device: Bluetooth (Page 51).

1. In the radio, select **Home** > **Setup** > **Bluetooth Setup**.

2. Select **List Paired Devices**. A device with a highlighted phone icon is connected for phone service. A device with a highlighted media icon is connected for media.

3. Select a device from the list to connect or disconnect.

4. See Figure 52. Select the appropriate button to connect or disconnect the device for phone service.

5. Select the appropriate button to connect or disconnect the device for music.
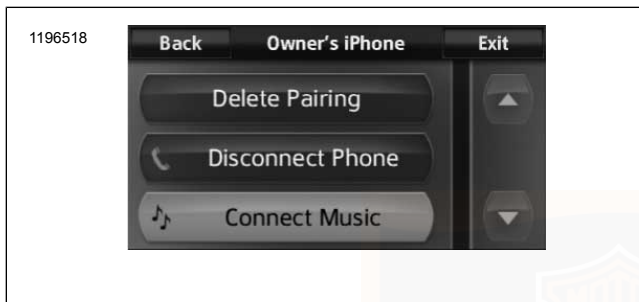
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Figure 52. Connecting or Disconnecting Phone or Music

RECONNECTING AFTER VEHICLE TURNS ON

When the motorcycle is turned on, the radio will automatically try to establish a Bluetooth connection with the phone from the last vehicle shutdown.

Allow a few moments for the radio to initialize and the phone connection to complete. The status bar displays the Bluetooth icon when the phone is connected.

The radio will not automatically reconnect with media devices over Bluetooth. Manually reconnect the phone and other media devices as necessary.

DELETING A PAIRED DEVICE

A device will typically remain paired with the radio until deleted.

1. In the radio, select **Home** > **Setup** > **Bluetooth Setup**.

2. Select **List Paired Devices**.

3. Select the device from the list.

4. See Figure 53. Select **Delete Pairing**. Select **OK** to confirm.
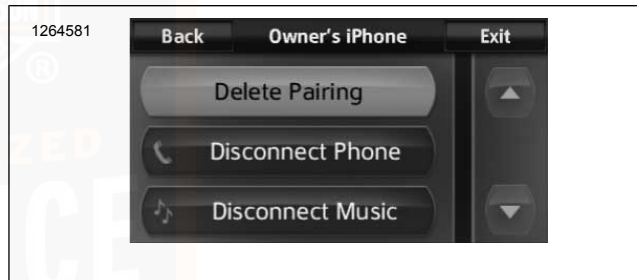
Figure 53. Deleting a Paired Device

Bluetooth 63

NOTES

PHONE COMPATIBILITY

Some phones may not be compatible with all the features and services in the radio. See the phone compatibility information at www.h-d.com/boom (or the Boom! Box section of www.h-d.com/touring). Some features may vary by region or carrier.

At a minimum, the phone must support the Bluetooth profiles shown in Table 23 to be compatible with various features in the radio. Even with these basic requirements, the phone may not necessarily be compatible with all features.

Table 23. Required Bluetooth Profiles

PROFILE	DESCRIPTION
A2DP/AVRCP Profile (AV/Music)	Connect media, media controls, metadata
Hands-Free Calling Profile (HFP)	Pairing, connecting, call features, battery indicator, signal strength indicator
HFP+PBAP+AV Profile	Calls and connection

Table 23. Required Bluetooth Profiles

PROFILE	DESCRIPTION
Message Access Profile (MAP)	SMS text message features
Phonebook Access Profile (PBAP)	Phonebook download, call history download

BLUETOOTH AND USB CONNECTIONS FOR PHONES

Phone services are only achieved through a Bluetooth connection. Connecting a phone to the USB port will allow the phone to charge and may provide additional media features. However, a USB connection alone will not operate the phone features.

The phone must be paired and connected through Bluetooth before operation. See Bluetooth (Page 61).

PHONE MENU

See Figure 54. Select **Home** > **Com** > **Phone** to access the phone features.

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1. **Phone book contacts**	4. **Text messages**
2. **Dial phone number**	5. **Emergency phone number**
3. **Call history**	6. **Bluetooth settings**

Figure 54. Phone Menu

CALL SCREEN

When a call is initiated or accepted, the Call screen is displayed as shown in Figure 55. This screen shows information for the current call.

While in an active phone call, you can change to other screens and use other features. However, other audio sources remain muted, paused or inaccessible until the phone call is finished.

Return to the Call screen to end the call or use other phone features. To return to the Call screen at any time during a call, press the HOME switch twice.

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Figure 55. Call Screen
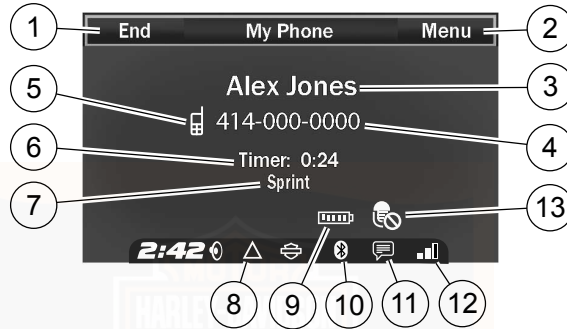
1. End call
2. Menu (microphone mute/unmute, keypad, call history, contacts, emergency call)
3. Contact name (if available)
4. Phone number
5. Contact type (home, mobile or work)
6. Elapsed time in call
7. Phone carrier
8. Roaming icon
9. Phone battery (5 bars)
10. Bluetooth connected
11. New message icon
12. Phone signal strength
13. Microphone muted

Table 24. Call Screen Functions

ITEM	DESCRIPTION
End	Press to end the current call.
Menu	Press to display other phone features (keypad for touch tones, mute/unmute, and so on).
Mute	Displays when microphones are muted.
Phone battery icon	Battery power for the phone (ranging 0 to 5).
Phone Book	Indicates when the phone book is being downloaded from the phone.
Phone signal strength icon	Signal strength (ranging 0 to 3).
New Message	Indicates a new text message has been received.
Roaming	Indicates that the phone is current in roaming mode.

IPHONE: USING SIRI

See Figure 56 and Figure 57. After pairing the iPhone, the screen will display two instructions confirming operation of the voice command button.
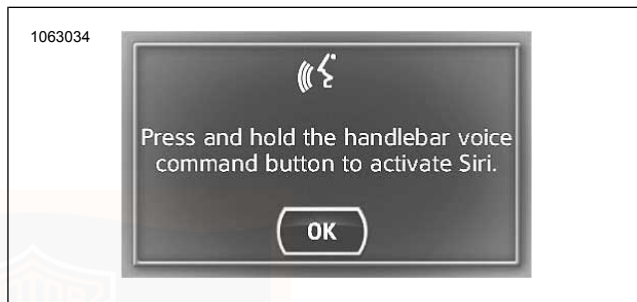
Figure 56. Activate SIRI
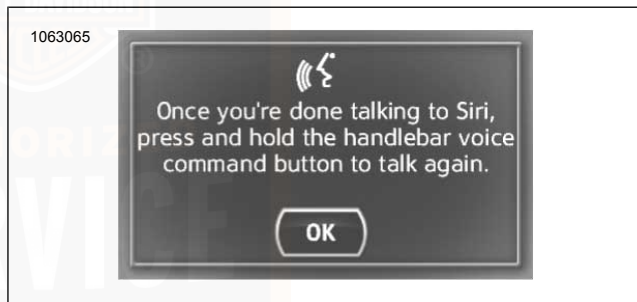
Figure 57. Disconnect SIRI

1. See Figure 58. Press and hold voice command button to activate Siri.

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2. **Siri** will display on the screen followed by **How may I help you?** Speak your command.

3. Press and hold voice command button to disconnect Siri.

1. Initiate Voice Recognition Session

Figure 58. Voice Command Switch

MAKING A CALL: DIALING

1. Select **Home** > **Com** > **Phone**.

2. Select **Keypad**.

3. See Figure 59. Type the full phone number using the keypad. Use the backspace/delete button or other characters as needed.

4. To add the phone number to the Saved list, select the **Save** button.

5. Select **Dial** in upper left corner.

1266161

1. Dialed phone number
2. Keypad
3. Add phone number to saved list
4. Hashtag/pound key (#)
5. Press for zero (0), hold for plus (+)
6. Asterisk (*)
7. Backspace/delete
8. Dial phone number

Figure 59. Phone Keypad

MAKING A CALL: PHONE BOOK CONTACT

1. Select **Home** > **Com** > **Phone**.

2. Select **Contacts** > **Phone Book**.

3. Select the contact name from the list. The letter jump feature can be used by pressing the center button in the scroll controls.

4. Select the desired phone number.

MAKING A CALL: EMERGENCY PHONE NUMBER

An emergency phone number must be entered into the radio before using this feature. This is done when the phone is paired. See Changing the Emergency Phone Number (Page 80).

1. Select **Home** > **Com** > **Phone**.

2. Select **SOS**.

3. Select **Dial**.

MAKING A CALL: DIALING WITH VOICE RECOGNITION

See Voice Recognition (Page 85) for more voice recognition instructions.

1. Press the VOICE RECOGNITION switch.

2. Say **DIAL** and speak the phone number into the microphone.

MAKING A CALL: CALLING A CONTACT WITH VOICE RECOGNITION

1. Press the VOICE RECOGNITION switch.

2. Say **CALL** and speak the contact name from the phone book or saved list.

3. If a contact has more than one phone number (home, mobile or work), the system will prompt for the correct phone number to use. Select the phone number to dial.

RECEIVING A CALL: ACCEPTING/IGNORING

When a call is received, the radio plays the ring tone and displays the incoming call information as shown in Figure 60. The call can either be accepted or ignored. Other audio sources are muted until the phone call ends.

Accepting the call: Select **Accept**. The call screen is displayed and the call begins.

Declining the call: Select **Ignore**. The phone declines the call and sends it to voicemail (or other function as determined by the phone manufacturer or carrier). The previous audio source resumes. See Call History (Page 75) to display a list of missed calls.
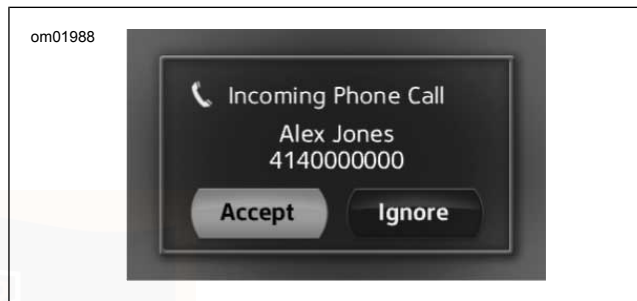
Figure 60. Incoming Call

RECEIVING A CALL: RADIO TURNED OFF

Phone calls can be received while the radio is turned off. When a call is received, the radio displays the call information and plays the ring tone. If the call is accepted, the phone features operate normally. The radio turns off when the call ends.

ENDING A CALL

Selecting the End button: The call terminates. The caller can then be added to the saved list by selecting the Save button.

Making a new call: Initiating a new call will terminate the current call.

Accepting a new call: Accepting a new call will terminate the current call.

ADJUSTING CALL VOLUME

During a call, use the volume hand control switch to adjust the incoming call audio. The passenger can use the volume controls on the Tour-Pak to adjust volume in the passenger headset.

MUTING CALL AUDIO

Muting microphones: While in a call, select the **Menu** button. Select the **Mute/Unmute** button until **Mute** is displayed. The call screen displays a Mute icon in the lower right corner. Audio from the rider and passenger microphones will not be sent over the phone.

Unmuting microphones: Press the **Mute/Unmute** button until **Unmute** is displayed. The Mute icon is removed and the microphones resume normally.

Muting inbound audio: Use the volume hand control switch to adjust incoming audio to minimum volume. The POWER/MUTE button does not mute incoming phone audio.

ROUTING CALL AUDIO

Outbound call audio is always spoken into the rider and passenger microphones. However, the inbound call audio can be received through either the speakers or headsets. See Speaker (Page 33).

MULTIPLE CALLS

The radio only allows one active phone call at a time. When choosing to initiate or accept a new call, the other existing phone call is dropped.

New incoming call (while call is in progress): The system will prompt to either accept or ignore the new incoming call. If the new call is accepted, the existing call is dropped. If the new call is ignored, the current call continues.

Starting a new call (while call is in progress): Using the keypad, contacts list or emergency phone number, initiate the new call. When prompted, decide whether to continue with the existing call, or to start the new call (terminating the current call).

VOICE MAIL

The radio does not indicate voicemail status. For most phone carriers, voice mail can be accessed by dialing the phone number for the mobile phone that you are using.

If a dial tone passcode is required to access voice mail, press the Voice Recognition switch during the call. Speak the passcode numbers and other special characters as needed. For example, to enter a passcode as "1234#", speak **ONE-TWO-THREE-FOUR-POUND** into the microphone.

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PHONE BOOK

Contacts in a device's phone book can be used to initiate calls and display incoming caller information. While multiple phone books can be stored in the radio from different paired phones, only the phone book from the currently connected phone is made available for use.

See Figure 61. The phone book displays entries for home, mobile, work or other phone numbers, according to the entries in the connected phone. If a contact does not have a phone number stored, the contact will not be displayed in the list.

When a paired phone is removed, the phone book is deleted. Pairing the phone again will require the phone book to be downloaded.

1. Home phone number
2. Mobile phone number
3. Work phone number
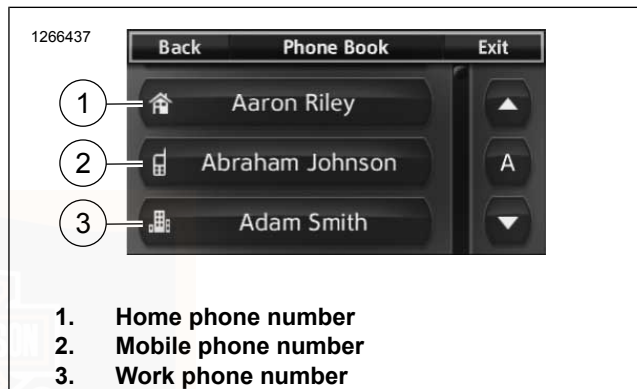
Figure 61. Phone Book

SETTING UP CONTACTS IN A PHONE

Consider setting up contacts such as "Emergency", "Work", "Voicemail", "HOG" and "Dealer" in the phone. Use simple names so it will be easy to pronounce with the voice recognition commands. Include as much information as possible, such as alternate phone numbers. With items properly set up in the phone book, it becomes much easier to use voice recognition.

REFRESH PHONE BOOK

The radio first downloads the phone book during initial pairing, and typically synchronizes with the connected phone when

the vehicle is turned on. The phone book can be manually refreshed from the connected phone at any time.

1. Select **Home** > **Com** > **Phone**.

2. Select **Contacts** > **Refresh Phone Book**. The system begins downloading the current phone book from the device.

3. During the download process, the phone may prompt for permission to share the phone book. Allow the phone book to be downloaded.

SHOWING CONTACT DETAILS

1. Select **Home** > **Com** > **Phone**.

2. Select **Contacts** > **Phone Book**.

3. Select a contact from the list.

4. Select **Show Details**. The name and phone numbers for the contact are displayed as shown in Figure 62.
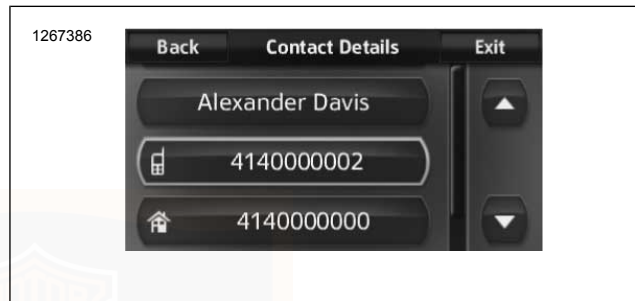
Figure 62. Contact Details

VIEWING SAVED CONTACTS AND PHONE NUMBERS

The radio can locally store up to 200 contacts or phone numbers. After a phone number is saved, it can be used with any phone that is connected with the radio.

1. Select **Home** > **Com** > **Phone**.

2. Select **Contacts** > **Saved**.

3. Select a saved contact or phone number from the list.

4. Select the phone number to begin a call.

SAVING A PHONE BOOK CONTACT

1. Select **Home** > **Com** > **Phone**.

2. Select **Contacts** > **Phone Book**.

3. Select a contact from the list.

4. Select **Add to Saved Contacts**.

SAVING A DIALED PHONE NUMBER

A phone number can be saved while dialing the number.

1. Select **Home** > **Com** > **Phone**.

2. Select **Keypad**.

3. Enter a phone number.

4. Select the **Save** button.

SAVING PHONE NUMBER FROM CURRENT CALL

When a call is finished, the Save button is briefly displayed. Select the **Save** button to store the phone number to the saved list.

DELETE SAVED CONTACT

1. Select **Home** > **Com** > **Phone**.

2. Select **Contacts** > **Saved**.

3. Select a contact from the list.

4. Select the edit button (pencil).

5. Select the trash can button. Select **Yes** to confirm.

CALL HISTORY

1. Select **Home** > **Com** > **Phone**.

2. Select **Calls**. A list of all call activity for the current phone is displayed as shown in Figure 63. The radio can display up to 60 total calls (20 missed, 20 received and 20 dialed calls).

3. To display only the missed, received or dialed calls, repeatedly select the button in the right corner.

1. **Dialed call**
2. **Received call**
3. **Missed call**
4. **Call lists (dialed/received/missed/all calls)**
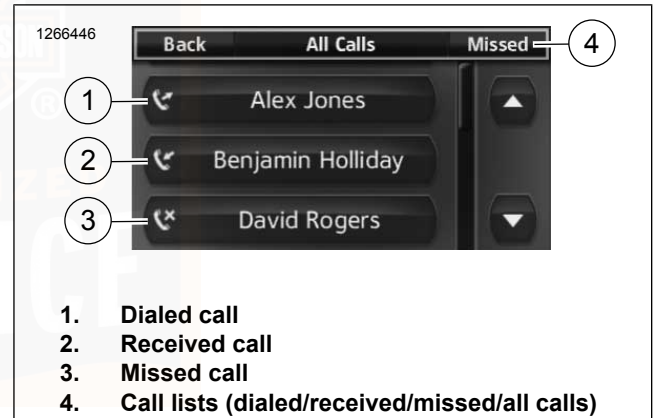
Figure 63. Call History

TEXT MESSAGING

The radio can be used to read and listen to incoming text messages (using the text-to-speech feature). An auto-reply feature can also be configured. For safety purposes, the radio cannot be used to send text messages. Not all phones are compatible for text messaging features.

ENABLING TEXT MESSAGE SERVICE: SMS

1. Select **Home** > **Com** > **Phone** > **Message** to access text messaging features.

2. See Figure 64. Check the **Enable SMS** checkbox.

1. **Enable text messaging**
2. **Inbox (with number of unread messages)**
3. **Text message setup (auto-reply)**
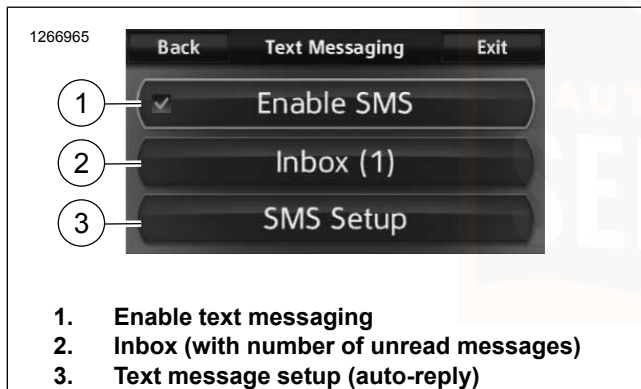
Figure 64. Text Message Menu

ENABLING TEXT MESSAGE NOTIFICATION: APPLE DEVICES

Notification settings need to be configured in Apple devices before the radio can receive text messages.

1. In the phone, select **Settings** > **Bluetooth**.

2. Select **H-D Radio**.

3. Enable **Show Notifications**.

4. Select **Settings** > **Notifications** > **Messages**.

5. Select **Banners**.

6. Turn off the vehicle. Allow up to 30 seconds for the radio to completely shut down.

7. Turn on the vehicle. The system should now be able to receive text messages from the phone.

NOTE
If the alert style is set to Alerts, only the first text message received from another number will be shown on the radio.

TEXT MESSAGE AUTO-REPLY

1. Select **Home** > **Com** > **Phone** > **Message**.

2. Select **SMS Setup**.

3. Check the **Enable Auto-Reply** checkbox.

4. Select **View Reply Message** to view the current reply. Select **OK**.

5. See Figure 65. Select **Edit Reply Message**.

6. Enter new message. Select **OK**. The auto-reply feature will respond to incoming messages with a heading "Auto Generated Text" along with the contents of the personal message setting.
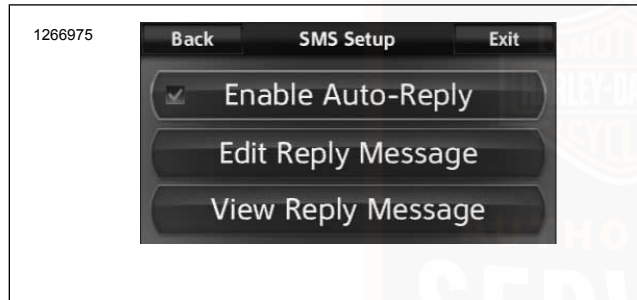
Figure 65. Auto-Reply Message

VIEWING/PLAYING A TEXT MESSAGE

When a new message is received, the New Message icon is displayed in the status bar. This icon clears after the text message inbox has been viewed.

Text message viewing is locked out while the motorcycle is in motion. Instead, the text-to-speech feature will read the selected text message through the speakers or headsets.

NOTE

The text-to-speech feature is only available while the radio is set to American English.

1. Select **Home** > **Com** > **Phone** > **Message**. The Inbox button shows the number of unread text messages.

2. Select **Inbox**. A list of messages displays the sender and the first portion of each text message.

3. See Figure 66. Select a message from the list. The full message is displayed. The text-to-speech feature reads the message over the speakers or headset.

4. To listen to the message again, select the **Repeat** button.

5. To display information about the text (sender, date and time stamp), select the information ("i") button.

1. **Repeat text-to-speech audio**
2. **More information (sender, date and time stamp)**
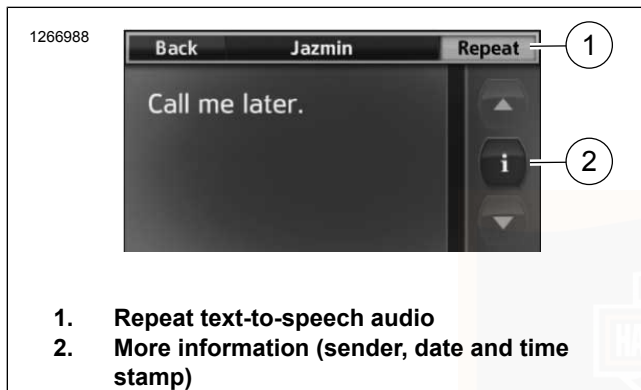
Figure 66. Viewing a Text Message

SELECTING RING TONE

The radio has four built-in ring tones available (Rain, Suspense, Rave and Xylo). An additional ring tone can also be loaded into the radio.

1. Select **Home** > **Setup** > **Bluetooth Setup**. (Bluetooth Setup can also be selected in the phone menu.)

2. Select **Ring Tones** > **Select Ring Tone**.

3. See Figure 67. Select from the list of ring tones.

4. Select **OK**. A sample of the ring tone is played. The system will use the selected ring tone for all incoming calls.
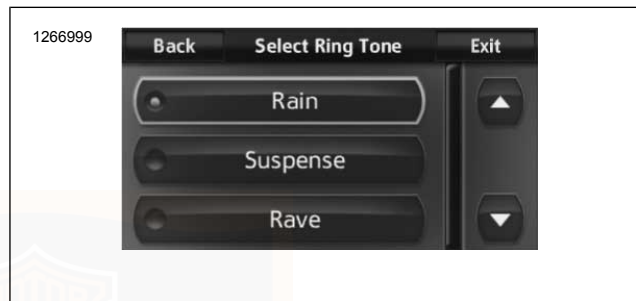
Figure 67. Selecting Ring Tone

ADDING NEW RING TONE: MEDIA FILE CURRENTLY PLAYING

1. With media file playing, select **Menu** button in upper right corner of the media player.

2. Select **Ring Tones**. The radio stores the current file as a ring tone. The radio will prompt if the file is too large or when replacing an existing ring tone.

3. Select **OK**. The ring tone is stored in the radio and configured as the current ring tone.

ADDING NEW RING TONE: BLUETOOTH SETUP

1. With motorcycle stopped, connect device (with ring tone file) to USB port.

2. Select **Home** > **Setup** > **Bluetooth Setup**. (Bluetooth Setup can also be selected in the phone menu.)

3. Select **Ring Tones** > **Load Ring Tones**.

4. Select device.

5. Find and select the file. The radio will prompt if the file is too large or when replacing an existing ring tone.

6. Select **OK**. The file is stored in the radio and configured as the current ring tone.

RESUMING CALLS AFTER VEHICLE SHUTDOWN

If a call is active while the motorcycle is being turned off, the radio will request to transfer the call back to the phone as shown in Figure 68.

Selecting Yes: The call transfers back to the phone. The Bluetooth connection terminates and the radio shuts down.

Selecting No (or not acknowledging the prompt): The radio continues to support the call for approximately five minutes. At the end of this period, the radio attempts to transfer the call back to the phone and the radio shuts down.

NOTE

Phone audio can only continue through the headset during this shutdown period. If the phone audio is routed through the speakers, the call will continue but the incoming audio will not be heard.

Figure 68. Transfer Call to Phone After Shutdown

TRANSFERRING A CALL BACK TO THE PHONE

Only use the phone handset manually while the motorcycle is stopped.

1. In the radio, select **Home** > **Setup** > **Bluetooth Setup**.

2. Select **List Paired Devices**.

3. Select the phone from the list.

4. Select **Disconnect Phone**. The Bluetooth phone connection terminates and the phone call transfers back to the phone handset.

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CHANGING THE EMERGENCY PHONE NUMBER

When the first phone is paired, the radio prompts for an emergency phone number. One emergency phone number can be stored in the radio. This same phone number is used for any phone connected to the radio.

1. Select **Home** > **Com** > **Phone**.

2. Select **SOS**.

3. See Figure 69. Select **Edit #** (to change the phone number) or **Clear** (to delete the current phone number).

4. Enter the new phone number to contact during an emergency (such as 911).

5. Select the **Save** button.

Figure 69. Dialing or Editing Emergency Number

INTERCOM

The intercom allows the rider and passenger to talk with each other through the headsets. The intercom can be operated by pressing the PTT switch or by using voice operated transmission (VOX). When voice input is picked up by the rider or passenger microphone, the intercom is automatically activated. This process is known as "breaking VOX".

The rider or passenger can initiate intercom communication. When the intercom is active, tuner and media volume are automatically reduced so the intercom can be heard through the headsets.

For privacy, the intercom is only heard through the rider and passenger headsets. It is not heard through the speakers.

Microphone sensitivity and headset volume can be adjusted. The microphone sensitivity (VOX) applies to both rider and passenger microphones. The rider and passenger headset volumes are adjusted independently.

NOTE

Some local governments prohibit or restrict the use of headset (helmet-mounted) speakers. Check with local authorities and obey all applicable laws and regulations.

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1. Intercom on/off button
2. Voice activation (VOX) sensitivity level
3. Minimum level (PTT activation only)
4. Maximum level (open microphone, intercom on continuously)
5. Intercom state (on/off)

Figure 70. Intercom Screen

TURNING INTERCOM ON/OFF

1. Select **Home** > **Com** > **Intercom**.

2. Select the button in upper left corner until it displays **On** or **Off**. When turned on, the intercom is available for use and the intercom icon is displayed in the status bar. The intercom can be used while on any screen.

ADJUSTING MICROPHONE SENSITIVITY: VOX

VOX sensitivity should be adjusted so the microphones break VOX at normal voice volume. The sensitivity level applies to both the rider and passenger microphones.

Adjust the sensitivity as needed if the microphone breaks VOX from unintended sounds, such as road or background noise.

1. Select **Home** > **Com** > **Intercom**.

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2. While speaking into the microphone, use the controls (+ and -) to adjust the sensitivity until your normal voice volume breaks VOX. The intercom icon in the status bar should be white (active) when speaking at a normal tone.

   a. **Raise sensitivity:** Move the level to the right. The microphone becomes more sensitive. The intercom will activate (break VOX) with quieter sounds through the microphone.

   b. **Reduce sensitivity:** Move the level to the left. The intercom will only activate (break VOX) with louder voice or sounds.

   c. **Fully open microphone:** Raising the sensitivity to the maximum level will keep the intercom microphone open continually.

   d. **PTT only:** Reducing the sensitivity to the minimum level will prevent any VOX operation. The intercom can only be activated with the PTT switch.

SPEED VOLUME

Speed volume is applied to the intercom to compensate for engine noise, wind and road input. As the motorcycle speed increases, the sensitivity of the microphones will automatically decrease. This prevents road noise from breaking VOX. It also prevents unnecessary adjustments to the microphone sensitivity while riding.

ADJUSTING INTERCOM VOLUME: RIDER AND PASSENGER HEADSETS

1. Activate the intercom (press the PTT switch or speak loud enough to break VOX).

2. Adjust the volume while the intercom is active. The intercom volume displays on the screen while the intercom is activated. Rider and passenger headset volumes are independently controlled.

   a. **Rider:** Press the volume controls on the left handlebar.

   b. **Passenger:** Press the VOL+/VOL- switch on the side of the Tour-Pak.
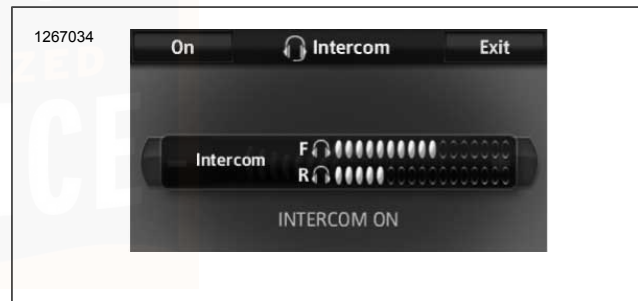
Figure 71. Intercom Volume

OPERATING INTERCOM: VOICE ACTIVATION, VOX

Speak into the microphone at an adequate level to break VOX. The tuner or media volume will reduce into the background so the intercom can be heard. The intercom icon will turn white (active).

The intercom audio will be heard in the headsets.

OPERATING INTERCOM: PTT SWITCH

1. Press and hold the PTT switch (rider or passenger) to activate the intercom. The intercom icon will turn white (active). The tuner or media volume will mute so the intercom can be heard.

2. Speak into the microphone. While the PTT switch is held, the microphones will remain active regardless of the VOX setting or sound level.

NOTE

To activate the intercom with only the PTT switch (rather than VOX), reduce the VOX sensitivity to its lowest level. See Adjusting Microphone Sensitivity: VOX (Page 82).

VOICE RECOGNITION

Voice recognition provides a hands-free alternative to operate phone functions. Commands spoken into a headset microphone can instruct the system to make a phone call.

To make full use of the system and to reduce distraction while riding, take time to learn voice commands.

NOTE
- *The phone commands are available in English only. Refer to Refer to Table 25..*

- *Some vehicles do not have headset connectors. A P&A headset connection kit must be installed on the vehicle to use voice command functions.*

ACTIVATING VOICE RECOGNITION

1. Press the VOICE RECOGNITION hand control switch. The system beeps and prompts for a command. The system shows a list of commands (teleprompter). The voice recognition icon appears in the status bar.

2. After the beep, speak a command into the headset microphone.

3. Respond to the system with additional information if needed.

   a. **Prompts:** The system prompts if additional information is required to complete a command.

   b. **Multiple options:** If multiple options are available for your command, the system displays a numbered list of options to choose from. Speak the appropriate line number, such as **LINE TWO**.

   c. **Barging in:** To interrupt the prompt, press the VOICE RECOGNITION switch during the prompt and speak the desired command after the beep.

NOTE
Voice commands are universal rather than mode-specific. For example, a media command can be used while in tuner mode. The system will switch to media mode and carry out the command.

CANCELLING VOICE RECOGNITION

Hand control: Press and hold the VOICE RECOGNITION switch.

Voice command: At any time, say **CANCEL** to terminate the current session.

Voice Recognition 85

No valid input: If the system does not recognize a voice command, a response to a prompt, or if an extended period of time elapses before a command is spoken, the session automatically cancels.

TELEPROMPTER

See Figure 72. The teleprompter is shown when the VOICE RECOGNITION switch is pressed. The teleprompter screen shows available phone commands,

The CURSOR/SELECT switch can be used to select a command.

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| Exit |
| Call <Name> |
| Dial <Phone number> |
| Dial by number |
| Redial |
| Cancel |
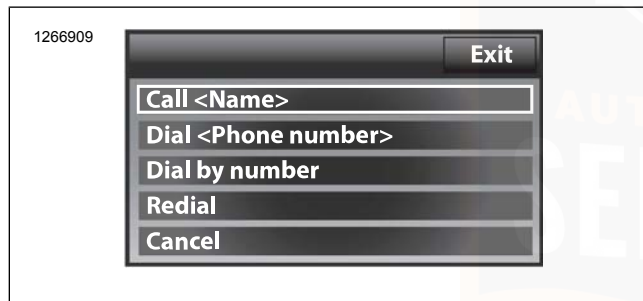
Figure 72. Teleprompter (Typical)

PROMPTER RESPONDS "PARDON?"

Microphone: Speak voice commands into the microphone of the headset. Proper placement of the microphone is critical to the effectiveness of voice commands.

Speech: Speak naturally into the headset microphone. Articulate each word in a voice command. Do not pause between words. The system cannot recognize rapid speech or a raised voice level.

Numbers: Pronounce numbers as individual numerals. Speak the number 88 as "eight, eight" rather than "eighty-eight". Speak zeros as "zero" or "oh". Pronounce decimal points in frequency numbers as "point".

VOICE RECOGNITION COMMANDS

86 Voice Recognition

Table 25. Voice Recognition: Phone Commands

COMMAND	DESCRIPTION
Call <NAME>	Begins a phone call to a phone book contact or locally saved contact. The system prompts if the contact has more than one phone number (home, mobile, work or other).
Dial <PHONE NUMBER>	Dials a selected phone number.
Dial by number	Dials a selected phone number.
Redial	Dials previous phone number.
Cancel	Cancel voice recognition session.

NOTES

VEHICLE STATUS

See Figure 73. Press the VEHICLE INFORMATION switch to display various information. Press the switch again to exit the Vehicle Status screen.

NOTE

Holding the VEHICLE INFORMATION switch too long will activate the high contrast day colors on the screen.

1. Air temperature
2. Engine oil pressure
3. Engine Idle Temperature Management System (EITMS)
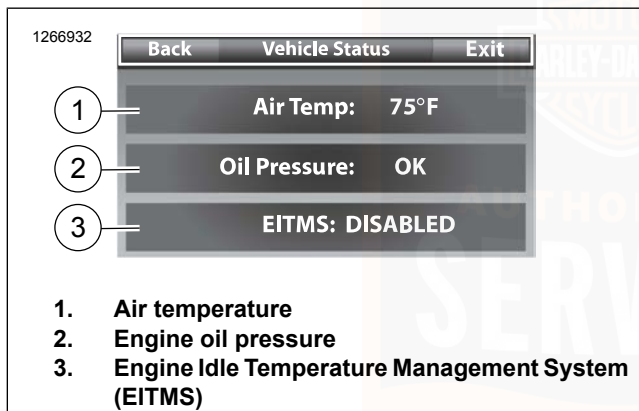
Figure 73. Vehicle Status Screen

AIR TEMPERATURE

See Figure 73. The current air temperature of the surrounding environment is measured by a sensor in the fairing. The measurement can be affected by surrounding conditions at low speeds, such as idling in heavy traffic. This measured temperature does not necessarily indicate frost or other road conditions.

ENGINE OIL PRESSURE

See Figure 73. Engine oil pressure is displayed as OK or Check Oil. If the oil pressure lamp is on, stop the engine immediately and do not ride further. Refer to the vehicle owner's manual or see an authorized Harley-Davidson dealer for service as necessary.

ENGINE IDLE TEMPERATURE MANAGEMENT SYSTEM (EITMS)

See Figure 73. The Engine Idle Temperature Management System (EITMS) provides limited cooling of the rear cylinder during prolonged idle conditions or traffic congestion. The EITMS status is displayed as DISABLED, ENABLED or ACTIVE. See the vehicle owner's manual for more information about this feature.

Disabled: EITMS will not activate.

Enabled: EITMS will activate when the ambient or engine temperature exceeds the threshold during idling.

Vehicle Status 89

Active: EITMS has activated. The rear cylinder has turned off to cool the engine.

2019 LIMITED RADIO WARRANTY

Harley-Davidson warrants that your Harley-Davidson radio will be free from factory defects in factory materials and workmanship, under normal use and service, for a period of twenty-four (24) months starting from the earlier of (a) the date of initial retail purchase of the motorcycle on which the radio is installed, or (b) the third anniversary of the last day of the model year of the motorcycle on which the radio is installed. Any unexpired portion of this limited warranty will be transferred to subsequent owner(s), upon the resale of the motorcycle during the limited warranty period. If the motorcycle was used as a demonstrator or company motorcycle, then the limited warranty period may have started and/or expired prior to the initial retail sale. See an authorized Harley-Davidson Dealer for details.

This limited warranty does not cover defects or damage due to abuse, misuse or improper installation, or any radio on a motorcycle which has been registered with Harley-Davidson as a collector's vehicle. Radios with a touchscreen have a replaceable protective film. Damage to the radio due to use without this screen protector is not covered under warranty. The screen protector itself is a serviceable wear part which can be purchased at an authorized Harley-Davidson dealer. Wear or subsequent damage to the screen protector is not covered under warranty. Also, the limited warranty does not cover syncing issues or an improper functioning radio caused by an incompatible phone or other media storage device (MP3,

jump drive, etc.). See an authorized Harley-Davidson dealer for details. Use of aftermarket parts may void all or parts of your limited warranty.

This limited warranty does not cover repairs under certain conditions. Examples include:

- Loss of personal media, software or data.

- Failure to provide proper installation environment.

- Damage caused by abnormal use, unauthorized modification, computer viruses, or installation of unauthorized software, peripherals and attachments; unauthorized, unapproved or incompatible devices or upgrades; or malfunction of a mobile phone or digital media device, including inadequate signal reception by the external antenna, viruses or other software problems.

To obtain warranty service, return your motorcycle with sound system intact, at your expense, within the limited warranty period to an authorized Harley-Davidson dealer. Authorized Harley-Davidson dealers should be able to provide warranty service during normal business hours depending upon the workload of the authorized dealer's service department and the availability of necessary parts.

The remedy for breach of this warranty is expressly limited to the repair or replacement **(which may include a refurbished replacement radio)**, without charge for parts and labor, of any part that proves to be defective, AND DOES

Limited Radio Warranty 91

NOT EXTEND TO LIABILITY FOR CONSEQUENTIAL DAMAGES, COSTS OR EXPENSES, INCLUDING LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, OR LOSS OF USE OF THE VEHICLE, RESULTING FROM ANY PART THAT PROVES TO BE DEFECTIVE.

THERE IS NO OTHER EXPRESS WARRANTY ON THE RADIO. ANY IMPLIED WARRANTY RELATING TO THIS RADIO, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IS EXPRESSLY LIMITED TO THE DURATION OF THIS LIMITED WARRANTY.

TO THE FULLEST EXTENT ALLOWED BY LAW, HARLEY-DAVIDSON AND ITS AUTHORIZED DEALERS SHALL NOT BE LIABLE FOR LOSS OF TIME, INCONVENIENCE, LOSS OF MOTORCYCLE USE, COMMERCIAL LOSS OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Other Rights

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.
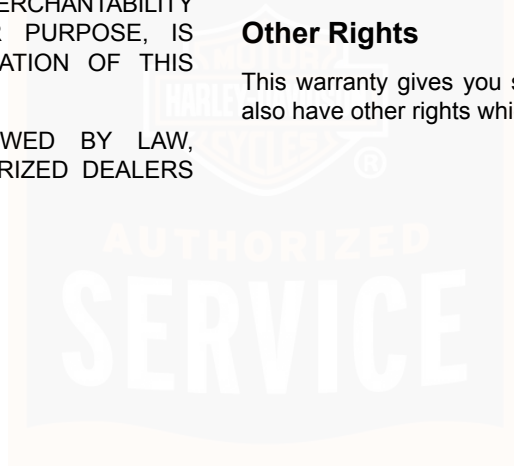
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