

General Disclaimer regarding this document: Since this manual will be built into an XML database, and since the graphics will be imported as SVG graphics, the appearance and format of this document is not in the Owner Manual's final presentation. The *notes in blue italics* are not meant to be printed.

This document is to be used for the textual content as the primary goal, and some graphical examples.

All graphics are considered placeholders. The structure/sequence of the document is subject to change, therefore there is no TOC; however, the following is the current structure/sequence planned:

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DRAFT

Introduction

This manual explains the operation of the **Boom!™ Box** infotainment system. There are three different versions: its **4.3**, **6.5GT**, and **6.5T** model variants. Read this manual carefully and keep it in your motorcycle at all times.

Definitions

- **T** = Touch Screen
- **G** = GPS Navigation database
- **4.3** = 4.3" Screen
- **6.5** = 6.5" screen

Product variants:

- **Boom!™ Box 4.3**
- **Boom!™ Box 6.5GT**
- **Boom!™ Box 6.5T**

Features Matrix

Note: For the matrix features see the spreadsheet loaded on eRoom.

https://eroom.harley-davidson.com/eRoom/1300/20131/O_2bbe4

Filename: **Radio Features Matrix for Users Manual.xls**

Should this information be on a web site, instead of on the printed material?(The matrix is too big for printing it, or inserting it into the Owner's manual).

Symbols and Illustrations

The illustrations in this manual show the typical layout. The actual design and button position may differ slightly depending on your vehicle and system configuration.

Warnings



WARNING

- This symbol represents a warning against any actions which may cause injury to people if the warning is ignored.
- You are informed about what you must or must not do in order to reduce the risk of injury to yourself and/or others.

Safety



Figure 1. Acceptance screen, 6.5 Models



Figure 2. Acceptance screen, 4.3 Models

Note: Rantee to check with the Liability team, whether the 4.3 screen should be included, in addition to the 6.5

To use the **Boom!™ Box** infotainment system in the safest possible way follow all the warnings, cautions and safety tips shown throughout this manual.

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, be sure to observe all traffic regulations.

Practice using the system and become thoroughly familiar with it. Read the entire manual to make sure you understand the functions. Do not allow other people to use this system until they have read and understood the instructions in this manual.

While riding, you are solely responsible for the safe operation of your motorcycle.

For your safety, some functions will become inoperable when the motorcycle in motion.



WARNING

- For safety, the motorcycle rider should not program the navigation system while in motion. Lack of attention to the road and traffic may cause an accident.
- While riding, be sure to obey the traffic regulations and maintain awareness of the road conditions.

If a traffic sign on the road has been changed, navigation route guidance may not have the updated information.

While riding, listen to the voice instructions as much as possible. Glance at the screen briefly and only when it is safe to do so.

Do not rely solely on voice guidance. Use it just for reference.

The data in the system may occasionally be incomplete. Road conditions, including restrictions (no left turns, street closures, etc.) frequently change. Therefore, before following any instruction from the system, look to see whether the instruction can be done safely and legally.

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.

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Speed Locked Controls



WARNING

- For your own safety the keyboard is disabled to enter a name or number (e.g., street name, phone number, etc.), while the vehicle is in motion.
- Pull over at a safe location to enter data into the system.

Many features of this system are speed-dependent. The system will indicate when a certain feature is not available while the vehicle is in motion, through a pop-up screen similar to the one shown on Figure 3.



Figure 3. Unavailability of a feature while vehicle in motion.

Controls at a glance

Left Handlebar Controls



Figure 4. Left Handlebar Controls

Table 1. Left handlebar control functions







Item	Control graphic	Control	Description
1		Home screen	Toggles between current screen and the Home screen .
2		Seek Down/Previous song	Tuner: Seek down for a radio station Media: Plays previous song on the connected device.
3		Seek Up/Next song	Tuner: Seek up for a radio station Media: Plays next song on the connected device.
4		Volume Up	Increases volume.
5		Volume Down	Decreases volume.
6		Voice Command	Initiates a voice command session.

Right Handlebar Controls



Figure 5. Right Handlebar Controls

Table 2. Right handlebar control functions

Item	Control graphic	Control	Description
1		Information	Displays/Exits Vehicle Information screen.
2	SQ+	CB Squelch+	Increases CB squelch level.
3	SQ-	CB Squelch-	Decreases CB squelch level.
4	PTT	CB Push To Talk	Press and hold to transmit over CB channel.
5		Cursor Up	Moves the highlighting up through the selections.
6		Cursor Right	Moves the highlighting right through the selections.
7		Cursor Down	Moves the highlighting down through the selections.
8		Cursor Left	Moves the highlighting left through the selections.
9		Select/Enter	Selects the highlighted item in the screen. Used to finish entering data into the system.

Passenger controls (If equipped)

Note: This artwork would be more useful if it gave sense of location on the vehicle

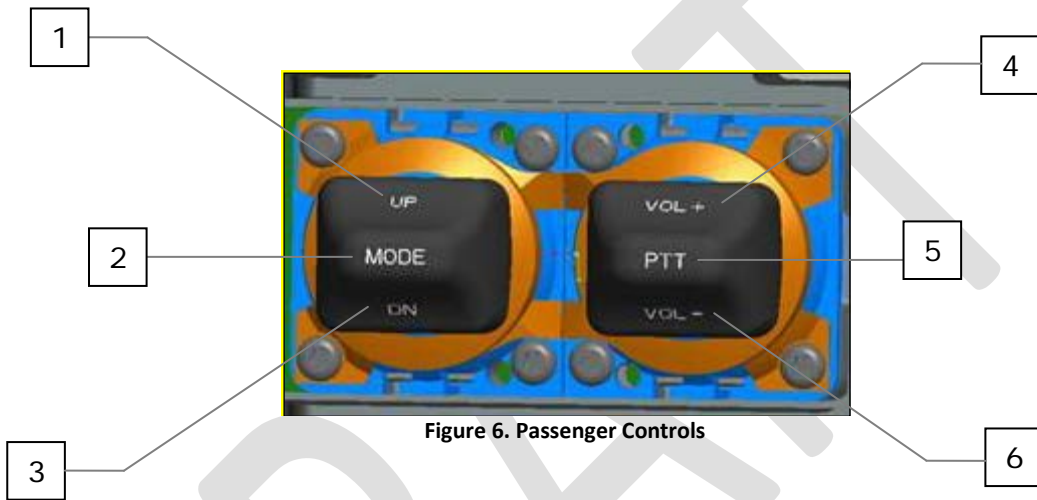


Figure 6. Passenger Controls

Table 3. Passenger controls functions

Item	Control graphic	Control	Description
1	UP	Seek Up/Next song	Tuner: Seek up for a radio station Media: Plays next song on the connected device.
2	MODE	Mode	Cycles to the next available audio source.
3	DN	Seek Down/Previous song	Tuner: Seek up for a radio station Media: Plays next song on the connected device.
4	VOL+	Volume Up	Increases volume.
5	PTT	CB Push to Talk	Press and hold to transmit over CB channel.
6	VOL-	Volume Down	Decreases volume.

Faceplate Buttons

Boom!™ Box 6.5 models



Figure 7. Faceplate Controls, 6.5 Models

Table 4. Faceplate controls functions, 6.5 Models

Item	Control graphic	Control	Description
1		Home screen	Pressing this button will toggle between any screen and the Home screen.
2		Favorite	A press and hold operation will allow the user to program this button as a shortcut to a favorite audio mode. A quick press will switch the system to the previously programmed favorite audio mode.
3		Navigation/Compass	Models with Navigation: Pressing this button will toggle between any screen and the Navigation screen or the Map screen. Models without Navigation: Pressing this button will display the compass screen.
4		Power/Mute	When the system is ON: A quick press will mute or un-mutes audio. Audio from connected devices will pause or un-pause. A press and hold operation (3 sec) will turn system OFF.

When the system is OFF:
A quick press will turn system ON.


Boom!™ Box 4.3 models



Figure 8. Faceplate Controls, 4.3 Models

Table 5. Faceplate controls functions, 4.3 Models

Item	Control graphic	Control	Description
1		Power/Mute	<p>When the system is ON: A quick press will mute or un-mutes audio. Audio from connected devices will pause or un-pause.</p> <p>A press and hold operation (3 sec) will turn system OFF.</p> <p>When the system is OFF: A quick press will turn system ON.</p>
2		Home screen	Pressing this button will toggle between any screen and the Home screen .
3		Favorite	<p>A press and hold operation will allow the user to program this button as a shortcut to a favorite audio mode.</p> <p>A quick press will switch the system to the previously programmed favorite audio mode.</p>
4		Soft key	These soft keys are dynamic. Their function changes according to their alignment to the

		items in the screen.
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Introduction to Voice Recognition (VR)

The Voice Recognition system gives the rider the ability to initiate voice-operated commands. The VR commands interact with the connected devices and the navigation system (if equipped). These sets of voice commands are initiated by pressing the Voice command button on the left handlebar controls.

For complete instructions and syntax of the voice-operated commands, read the **Voice Recognition Operation** section of this manual.

***Note:** Mention the Ignition switch, where applicable (i.e. Software Update, or Power moding), but don't include a section for the ignition switch, since this belongs in the vehicle manual section.*

User Ports and connectors

USB port

Your **Boom!™ Box** has a USB port that allows you to connect a compatible phone, media player or a USB flash drive.

Note: reference the list of compatible devices on the web site.

The USB port is located inside the media compartment, called Jukebox.

The Jukebox is located on the right side next to the **Boom!™ Box** system.

Check the following illustration for the location of the USB port and the Jukebox.

Note: Graphics need to be improved, to be able to locate the media compartment and USB cable.

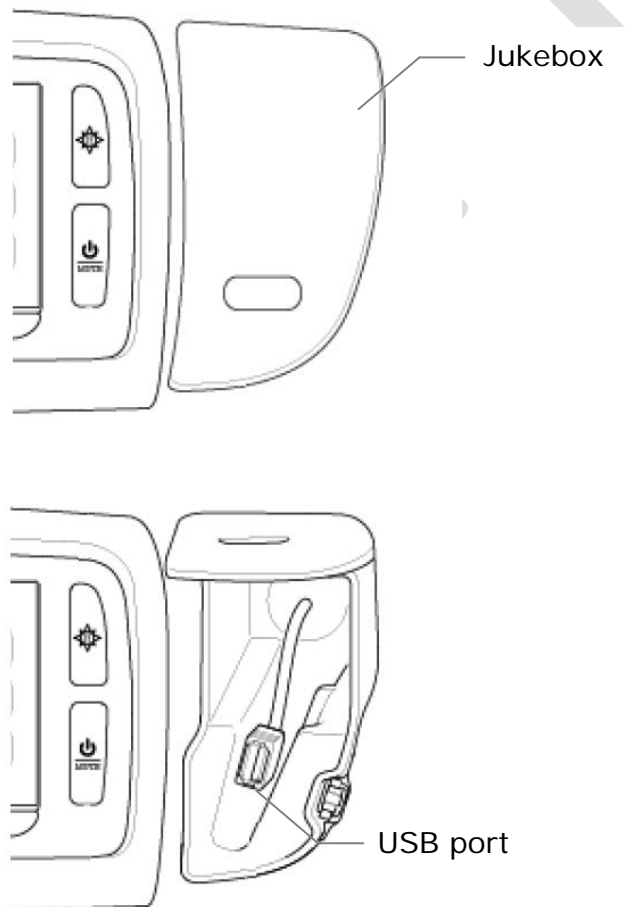


Figure 9. Jukebox and USB port location

Headset connector (if equipped)

On select models, the vehicle is equipped with a Headset connector. Refer to your vehicle manual for the location of the headset connector, or to check if the vehicle has it.

General Operation

Boom!™ Box 4.3 models faceplate

Select the item on the screen by pressing the soft key that aligns with that item.

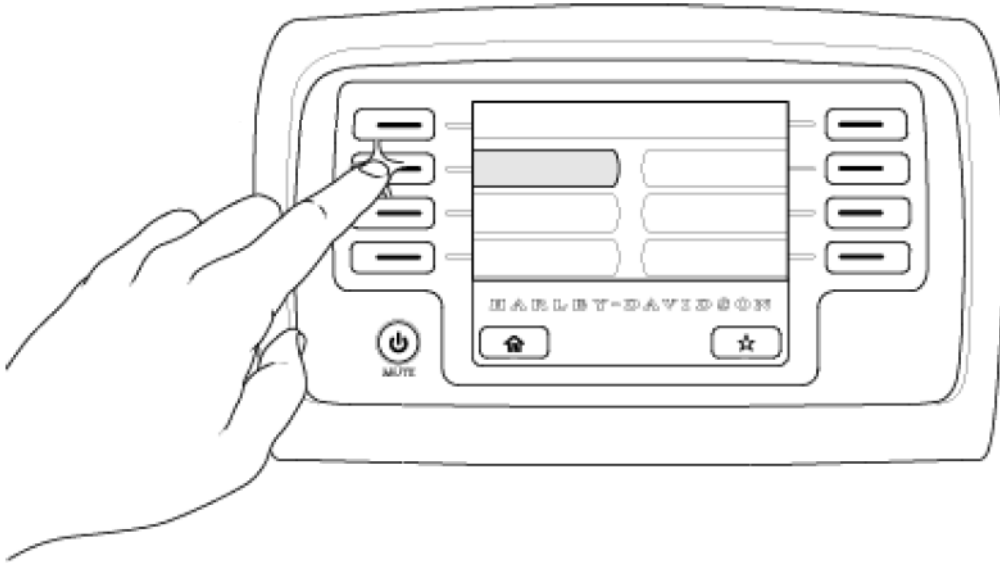


Figure 10. Item selection, 4.3 Models

Boom!™ Box 6.5 models Touch Screen

Select the item on the screen by pressing that item on the Touch Screen.

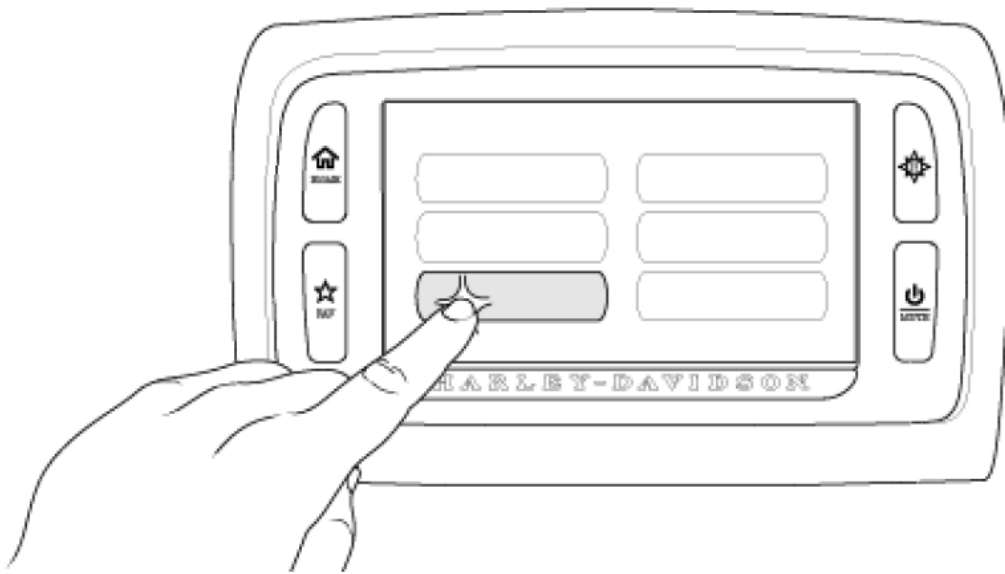


Figure 11. Item selection, 6.5 Models

Using handlebar controls to select objects

While the vehicle is in motion it is recommended to avoid using the Touch Screen or the faceplate buttons since this implies releasing one of the hands from the handlebar.

While riding a safer method is to utilize the keys on the right handlebar controls to perform selections. Refer to the right handlebar control section of this manual for the keys location. The cursor movement keys (Up, Down, Left, Right) can be used to highlight a different object in the screen. The Enter/Select key can be used to select such object. Do this only when it is safe to do so.

The currently highlighted item will have a yellow box surrounding the object.

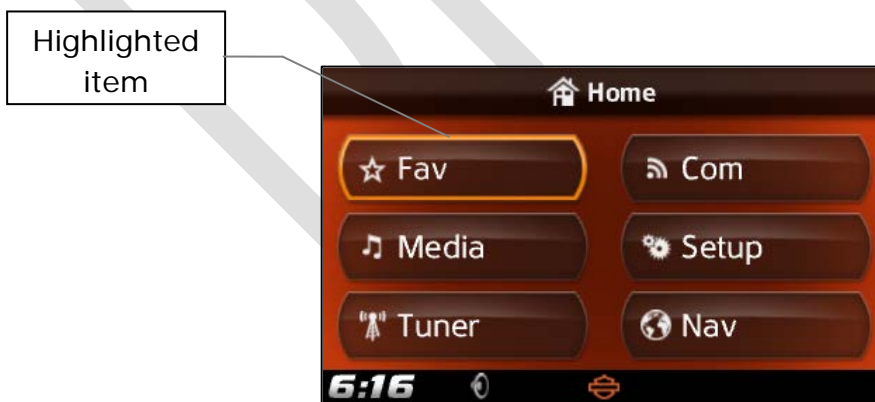


Figure 12. Example with Fav, as the highlighted item

Visual elements

Title bar

The title bar is located in the upper part of the screen, in most screens. The title bar and its components change according to the screen that the system is presenting.

The title, located on the center of the title bar, indicates the name of the screen or the function that the screen represents. The title is not a selectable item. Some title bars may contain a left or a right button, or both.



Figure 13. FM Title bar and menus

Buttons with checkboxes

Some system options are turned on or off by use of a checkbox in the button.

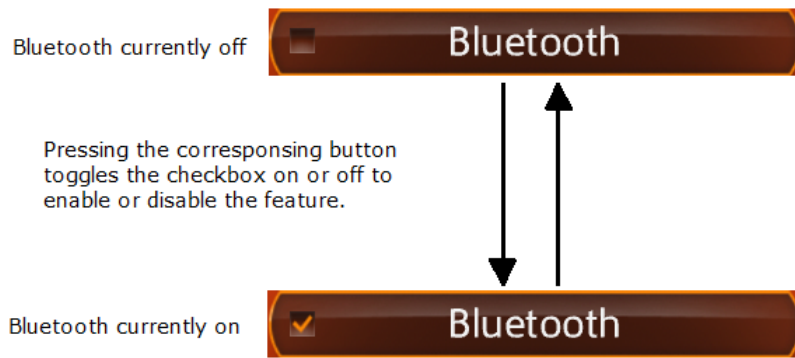


Figure 14. Use of a checkbox to toggle a function on or off

Buttons for multiple options

Some settings can be changed by use of multiple option buttons, identified by the + and arrow graphic on the button.

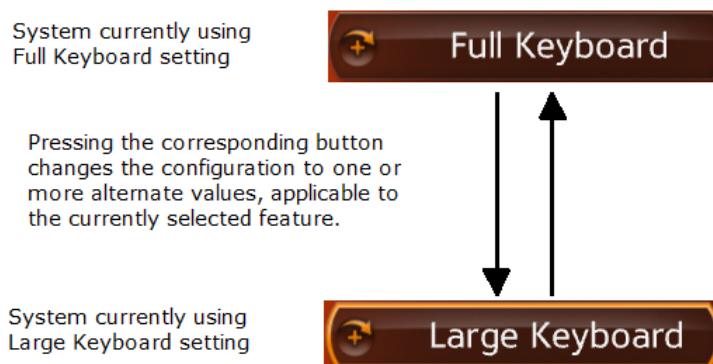


Figure 15. Use of multiple option buttons to cycle through settings for a feature

On/Off buttons

Some features are turned on or off by use of the On/Off buttons in the corresponding screens. One example is the Intercom screen.



Figure 16. Turning Intercom On



Figure 17. Turning Intercom Off

Status bar

The status bar is located in the lower part of the screen, in most screens. The icons in the status bar are indicators. None of the icons are selectable.



Figure 18. Status bar and icons

Table 6. Status bar icons



Icon graphic	Status	Description
	Speakers not muted	Music/Media audio is being routed to the speakers. The speakers are currently not muted.
	Speakers muted	Music/Media audio is being routed to the speakers. The speakers are currently being muted.

Table 6. Status bar icons



















Icon graphic	Status	Description
	Headsets not muted	Music/Media audio is being routed to the headsets. The headsets are currently not muted.
	Headsets muted	Music/Media audio is being routed to the headsets. The headsets are currently being muted.
	Traffic Announcement	On select markets: The tuned RDS station is actively broadcasting an audio traffic announcement.
	Traffic Program	On select markets: The tuner is set to an RDS station that regularly broadcasts traffic bulletins.
	Sirius XM Signal Strength	On select markets: if a Sirius XM module is installed, the XM signal strength icon will appear. Filled bars indicate signal strength.
	Intercom microphone idle	On select models: While there is not an active microphone transmission, the Intercom microphone idle icon will be shown with white letters, in a black background in a white outline box. This icon will not appear if the Intercom functionality has been disabled.
	Intercom microphone active	On select models: During an active microphone transmission, the Intercom microphone active icon will be shown with black letters, in a white background box. This icon will not appear if the Intercom functionality has been disabled.
	Harley-Davidson Bar & Shield logo	The Harley-Davidson Bar & Shield logo is always present in the center of the status bar.
	CB idle	On select models and markets: while there is not an active CB transmission, the CB idle icon will be shown with white letters, in a black background in a white outline box. This icon will not appear if the CB functionality has been disabled, or if the CB module is not installed.
	CB active	Select models and markets: during an active CB transmission, the CB active icon will be shown with black letters, in a white background box. This icon will not appear if the CB functionality has been disabled, or if the CB module is not installed.
	Bluetooth®	The Bluetooth® icon appears if a Bluetooth® device has been connected. It will only appear if the system is not presenting one of these statuses: Roaming, New Messages, Low Battery or Phonebook icon.
	Roaming	The Roaming icon appears in case the phone connected through Bluetooth® is in a roaming area.

Table 6. Status bar icons

Icon graphic	Status	Description
	New Messages	Indicates that the phone connected through Bluetooth® has received an SMS text message (if supported). When the user goes to the message list showing the new message this icon will be removed.
	Low Battery	The Low Battery icon appears if the phone connected through Bluetooth® has a low battery.
	Phonebook	The Phonebook icon will be displayed when a Bluetooth® connected hands-free device's phonebook data is currently being synched or downloaded to your Boom!™ Box . This icon disappears when that action completes.
N	Heading North direction	The Heading North direction icon is displayed when the Navigation subsystem has determined that your vehicle's direction is heading North.
S	Heading South direction	The Heading South direction icon is displayed when the Navigation subsystem has determined that your vehicle's direction is heading South.
E	Heading East direction	The Heading East direction icon is displayed when the Navigation subsystem has determined that your vehicle's direction is heading East.
W	Heading West direction	The Heading West direction icon is displayed when the Navigation subsystem has determined that your vehicle's direction is heading West.
NE	Heading North-East direction	The Heading North-East direction icon is displayed when the Navigation subsystem has determined that your vehicle's direction is heading North-East.
NW	Heading North-West direction	The Heading South-West direction icon is displayed when the Navigation subsystem has determined that your vehicle's direction is heading South-West.
SE	Heading South-East direction	The Heading South-East direction icon is displayed when the Navigation subsystem has determined that your vehicle's direction is heading South-East.
SW	Heading South-West direction	The Heading South-West direction icon is displayed when the Navigation subsystem has determined that your vehicle's direction is heading South-West.
	VR session active	The VR session active icon will appear after the Voice Command button is pressed, to indicate that a VR session is active. The icon will remain visible until the voice command has been executed or cancelled.
	VR system not ready	Shortly after the Boom!™ Box is powered up, the Voice Recognition system will not be ready for a few minutes. This icon gets displayed during the time of unavailability.
	Media paused	The media paused icon will be displayed whenever the media audio gets paused. Single pressing the Power/Mute button will pause or un-pause media audio.

Table 6. Status bar icons

Icon graphic	Status	Description
		Other events, such as receiving a phone call would also pause music playback.
	Scan Up	Scan Up icon will appear during a Scan Up operation of tuner or media. The Scan Up icon will disappear when the scan is terminated or stopped.
	Scan Down	Scan Down icon will appear during a Scan Down operation of tuner or media. The Scan Down icon will disappear when the scan is terminated or stopped.
	Seek Up	Seek Up icon will appear during a Seek Up operation of tuner, media or Sirius XM. The Seek Up icon will disappear when the Seek Up operation is completed.
	Seek Down	Seek Down icon will appear during a Seek Down operation of tuner, media or Sirius XM. The Seek Down icon will disappear when the Seek Down operation is completed.
	Phone Signal Strength	The Phone Signal strength icon is shown when a phone is connected by Bluetooth [®] . Filled bars indicate signal strength.

User settings (Setup Menu)

To customize the **Boom!™ Box** settings:

- Bring up the **Home screen**
- Select Setup
- Select the desired setup section

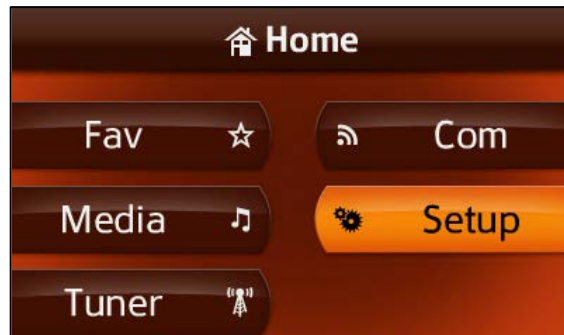


Figure 19. Setup Menu selection, 4.3 models



Figure 20. Setup Menu selection, 6.5 models with Sirius XM

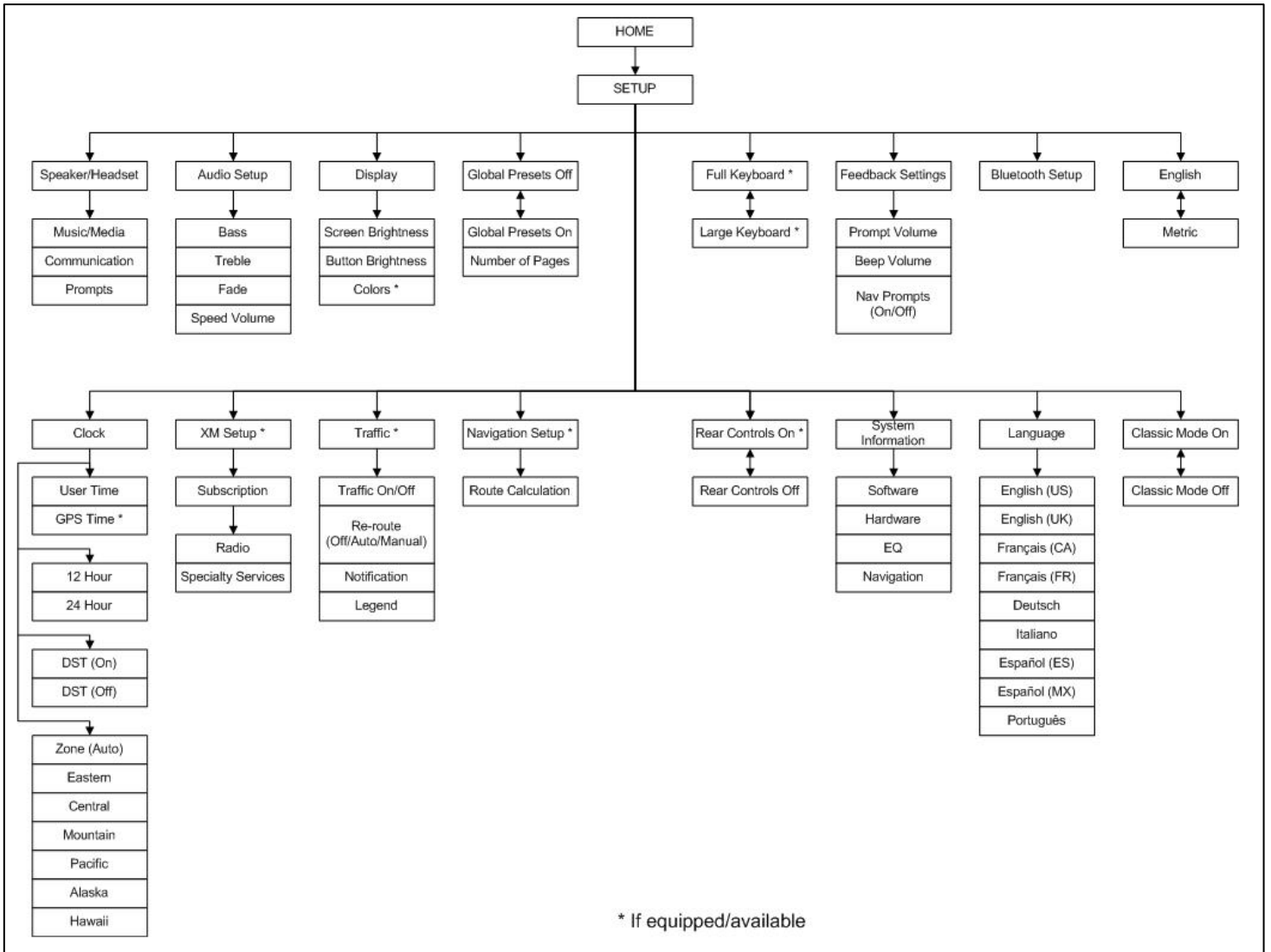


Figure 21. Setup Menu overview

Audio Routing (Speaker/Headset)

The Speaker / Headset option under the Setup Menu allows selection of audio output through the speakers or the headsets for music, communications and for system prompts.



Figure 22. Speaker / Headset

Select the speaker or the headset graphic, as desired for each audio source.



Figure 23. Audio Routing (Speaker / Headset selection)

Audio Setup

The Audio Setup option under the Setup Menu allows adjustment of audio settings, such as bass, treble, fader (on select models) and speed-dependent automatic volume control.



Figure 24. Audio Setup

Bass & Treble adjustment

Bass & Treble can be adjusted by pressing on the corresponding + or – buttons.

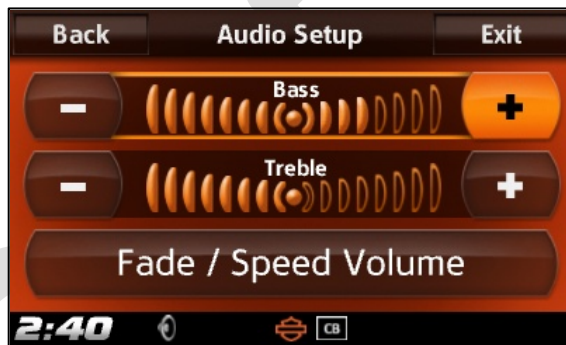


Figure 25. Bass & Treble adjustment

Pressing the Fade / Speed Volume button changes the page to adjust Fade (on select models) and Speed Volume.



Figure 26. Fade / Speed Volume

Fade adjustment (on select models)

Fade adjusts the balance between rider and passenger speakers. Pressing F moves the balance to the front speakers while pressing R moves the balance to the rear speakers. Equal volume in front and rear speakers is indicated by the centered circle segment.

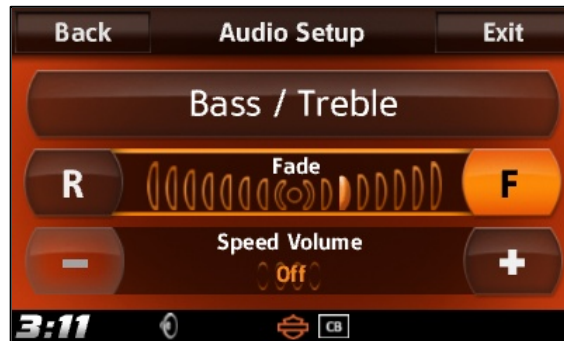


Figure 27. Fade adjustment

Speed Volume adjustment

The Speed Volume or Automatic Volume Control (AVC) function sets the volume level to compensate for the ambient noise associated with motorcycle speed. The AVC can be turned on or off, and the compensation can be adjusted between four different compensation levels by pressing the + and - buttons.

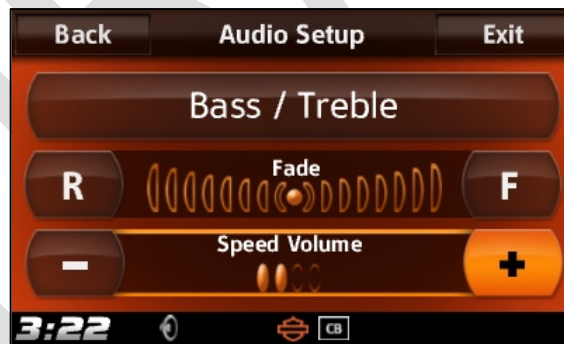


Figure 28. Speed Volume adjustment

Display

The Display menu allows the end user to change the LCD backlight and the hard key button illumination on the faceplate. These adjustments are user-selectable only if they are configured as manual mode. In automatic mode, these settings change according to the ambient light.

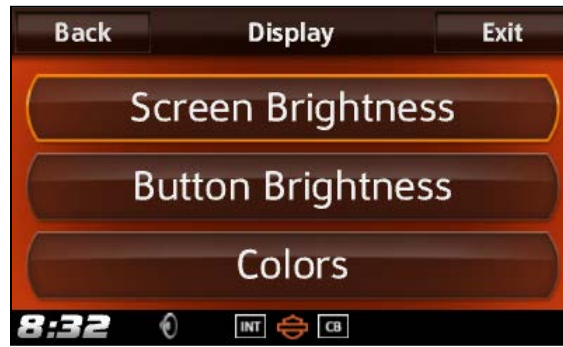


Figure 29. Display adjustment screen

Screen Brightness

In this screen, the screen brightness can be set to either Manual or Automatic mode. If Automatic mode is not checked, the display backlight can be adjusted by pressing – or +. **If Automatic mode is checked, the display brightness will be adjusted depending on the ambient light.**



Figure 30. Screen Brightness

Button Brightness

In this screen, the faceplate button brightness can be adjusted by pressing – or +.



Figure 31. Button Brightness

Colors

In this screen, the color mode can be set to Night Mode, Day Mode or Automatic mode. In Automatic mode, Day or Night will be set automatically, depending on the ambient light.



Figure 32. Colors screen with Automatic, Day Colors, Night and Background Color

Background Colors

The Background Color button presents a list of different built-in color schemes: Default, Blue, Brown, **Gold**, Green, Gray, Purple and Red.



Figure 33. Background Color selection screen

Global presets

NOTE

See section *Usage of Presets for information on Presets.*

To enable Global Presets check **Enable** on the Global Presets screen. Press + or – for selection of the number of pages. The range for number of pages allowed is 1 through 4.



Figure 34. Global Presets

Global Presets allow the selection of presets from different audio sources on the same page. For the example presented in Figure 35, there are presets from AM, FM, Sirius XM and USB connected devices on the same FM screen.



Figure 35. Global Presets on the FM screen

Keyboard style

On 6.5 models, the keyboard style can be changed between Full Keyboard and Large Keyboard

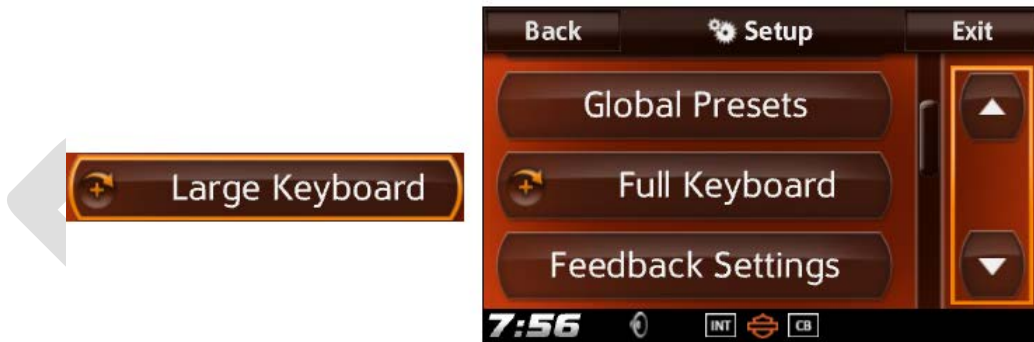


Figure 36. Keyboard style

Full keyboard

This is the default keyboard, where all letters appear on the same screen.



Figure 37. Full Keyboard

Large keyboard

Instead of the Full keyboard, the Large keyboard can be used if the rider's gloves make it difficult to select the letters with the Touch Screen. The letters do not appear on the same screen, they are spread across three groups: A through I, J through R and S through Z.

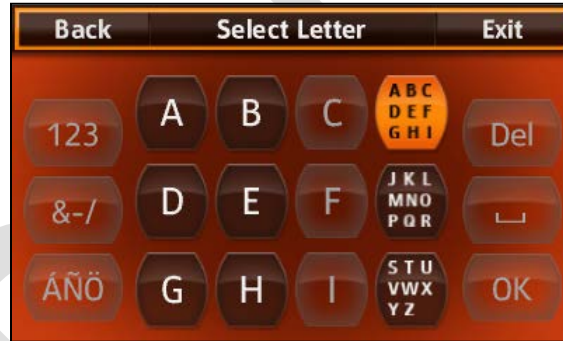


Figure 38. Large Keyboard

Feedback settings

The system has audible feedback for some functions, for example the beep heard when storing a preset or the Navigation or Voice Recognition prompts.

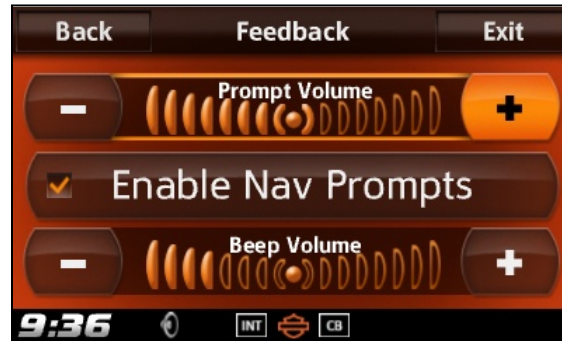


Figure 39. Feedback settings

Prompts Volume

This control is used for adjusting the volume of all audible prompts: Navigation prompts (if equipped), phone ring tones, weather alerts (if equipped) or traffic announcements (if equipped).

Enable Nav prompts (if equipped)

This control allows the user to enable or disable the Navigation prompts.

Beep Volume

This control is used for adjusting the volume of beeps in the system.

Bluetooth® setup

NOTE

Bluetooth® is a registered trademark of Bluetooth SIG, Inc.

Bluetooth® setup controls are used to enable or disable Bluetooth®. Connecting Bluetooth® devices for phone (HFP) or music (A2DP) usage or delete pairing of Bluetooth® devices that were previously paired. Through the Bluetooth® setup menu, the user can also load custom ring tones from a USB flash drive.



Figure 40. Bluetooth Setup Menu

Bluetooth® Enable/Disable

The Bluetooth® system can be enabled or disabled by checking or un-checking the checkbox in the Bluetooth® button.

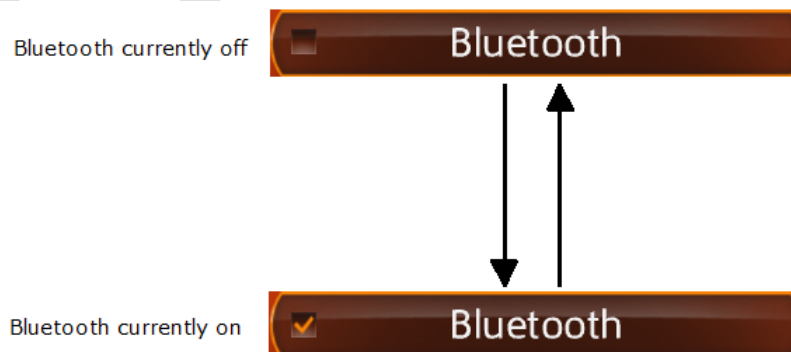


Figure 41. Bluetooth Enable/Disable

Paired devices

Pair a new device

To pair a new Bluetooth® device, first make sure that your device has Bluetooth® turned on, and that it is discoverable (read your device's owner's manual). From the Bluetooth® setup screen select **List Paired Devices**, followed by **Add New Device**.



Figure 42. Add New Device

All discoverable devices in range will appear in the list of found devices. Select the device to be paired from the list.



Figure 43. Select your device from the list of devices found

Once a selection has been made, follow the prompts on the **Boom!™ Box** and your device regarding Personal Identification Numbers, to continue with the pairing process.



Figure 44. Follow prompts regarding Personal Identification Numbers



Figure 45. Pairing a device

After a device has been paired, the system will prompt for an emergency number, if one has not been previously provided.



Figure 46. Emergency Number prompt

After providing an emergency number, for example "911", save the number by pressing the Save button.



Figure 47. Entering and saving an emergency number

List Paired devices

Use this button to see a list of the currently paired Bluetooth® devices. Up to 6 Bluetooth® devices can be paired. When a device is paired, by default it is connected for phone usage, but not for music.



Figure 48. List Paired Devices

Once a device is paired, select it from the list and select Phone or Music usage or both, as desired and supported by the device.



Figure 49. Connect or Disconnect for Phone or Music usage

NOTE

Depending on your device, Phone and/or Music usage buttons may not appear.

Delete a paired device

To delete the pairing of a device, select the device from the list of paired devices and press the **Delete Pairing** button. Provide confirmation by following the prompts.



Figure 50. Delete a paired device

Ring Tones

The **Boom!™ Box** has the following built-in ring tones to choose from: **Rain**, **Suspense**, **Rave** and **Xylo**. An audio file can be loaded from a USB flash drive as an additional ring tone. To select or import a ring tone, press the **Ring Tones** button from the Bluetooth® setup menu.

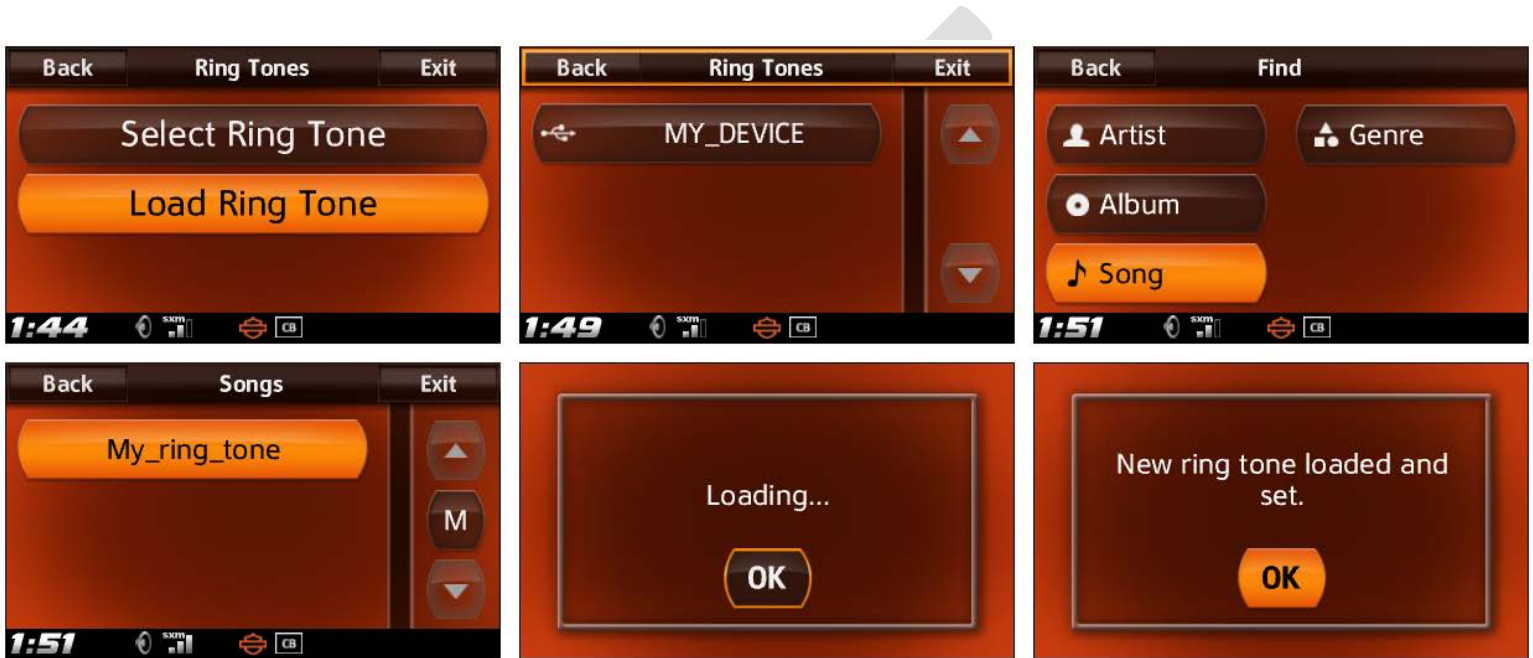


Figure 51. Load Ring Tone

Measurement Unit System

The measurement unit system can be changed between English and Metric.

When the system is setup to use the English measurement system, the following units are used: miles, yards, feet, MPH, °F and PSI, where applicable.

When the system is setup to use Metric measurement system, the following units are used: kilometers, meters, kph, °C and Bar, where applicable.



Figure 52. English / Metric Measuring Unit System

Clock Setup

The User Clock can be adjusted by using the – and + keys. To switch Daylight Savings Time (DST) on or off, press the DST button to display the ON or OFF setting. The clock can also be adjusted for 12 or 24 hour format, by pressing the 12 Hour or 24 Hour button.



Figure 53. Clock Adjustment

GPS or User Time

The User Time is determined manually by the user, including setting the time zone.

In GPS Time, the time zone and the clock will be automatically adjusted according to your current geographical location.

In GPS Time mode, the time displayed can be adjusted to be either behind (negative offset) or ahead (positive offset) to the GPS reference time. When the time displayed has offset, the offset will be displayed next to the – or + buttons.



Figure 54. GPS clock adjusted with a 4 minute negative offset

Time Zone

The available time zones in User Time are: Eastern, Central, Mountain, Pacific, Alaska and Hawaii.

Sirius XM Setup (if equipped)

If your system has been equipped with a Sirius XM module, the module needs to be subscribed for service. The subscription can be made for any or both of the following services:

- Radio service
- Specialty Services

Radio Service

To check if your unit has been subscribed for Radio service, follow the following steps:

- Go to: **Home screen -> Setup -> SiriusXM Setup -> Subscription -> Radio**

A screen similar to Figure 55 will appear, including your unit's ESN number, and status of your subscription for Radio Audio service:



Figure 55. Radio Service Subscription Information

Specialty Services

To check if your unit has been subscribed for Specialty Services, follow the following steps:

- Go to: **Home screen -> Setup -> SiriusXM Setup -> Subscription -> Specialty Services**

A screen similar to Figure 56 will appear, including your unit's ESN number, and status of your subscription for each one of the specialty services: Fuel, Weather and Forecast.



Figure 56. Specialty Services Subscription Information

You can subscribe to the Sirius XM Radio or Specialty Services anytime by following these steps:

- Make sure that your **Boom!™ Box** with a SiriusXM module is turned on, and receiving the Sirius XM signal so that you can hear the Sirius XM audio (Channel 1 is useful for this step).
 - Make a note of your Sirius XM module ESN Number.
 - To subscribe:
 - Online: Go to www.siriusxm.com and click on **"I want to subscribe"**.
- OR
- By phone: Call **1-800-XM-RADIO** (1-800-967-2346).
 - Activation usually takes 10 to 15 minutes, but may take up to an hour. We recommend that your system remains on until subscribed.

Traffic Setup (if equipped)

On select markets, traffic information will be received and displayed by the **Boom!™ Box**. To setup how this information will be utilized,

- Go to: **Home screen -> Setup -> Traffic**

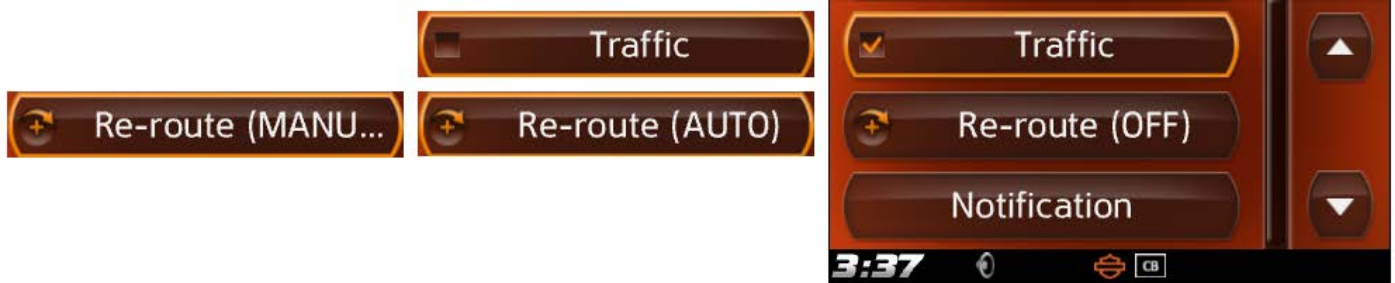


Figure 57. Traffic Setup

Traffic data utilization can be either enabled or disabled by checking or un-checking the checkbox in the Traffic button.

If Traffic is enabled, this information can be used to re-route to avoid congested areas along a Navigation route. The Re-route function can be set to OFF, AUTO or MANUAL.

Traffic Notifications and the popup beep can be enabled or disabled by checking or un-checking the checkbox in the Popup Beep button.



Figure 58. Traffic Notification Setup

Message Filter allows configuring the distance for the notification. The allowed options for the distance are: Default (MAXIMUM), 6 Miles, 30 Miles and 60 Miles.

Navigation Setup (if equipped)

To setup the GPS Navigation system,

- Go to: **Home screen -> Setup -> Navigation Setup**

The setup options for Navigation deal with the appearance of the Navigation system and Route Calculation.



Figure 59. Navigation Setup screen

Route Calculation

When the Navigation system is calculating a route, by default it picks the fastest way to reach the destination. However, there are other routing options available: Scenic, Shortest and Twisty.



Figure 60. Route Calculation Preferences

Other settings for route calculation include whether the system should calculate a one-way trip or a round-trip.

A list of avoidances can be selected, from the following: Highways, Toll Roads, Ferries, Tunnels, Car/Train, Unpaved Roads, Seasonal Restrictions and Borders.

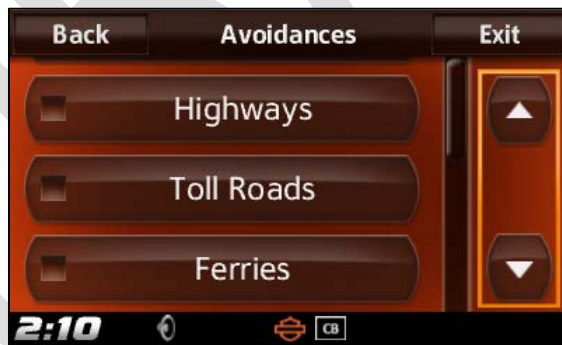


Figure 61. Avoidances

Appearance

Selecting Appearance from the Navigation Setup Menu allows to setup how the Navigation map looks, the available controls are: POI icons enable or disable options, selection between 2D or 3D Map styles, Map orientation selection between North Up or direction heading up, and other options.

POI Icons

In the Navigation Map, there will appear icons for Points Of Interest (POIs), represented by an icon on the map.

The following are examples of POI icons:

Table 7. POI icons

















Icon graphic	Description
	ATM/Banking
	Automotive
	Coffee Shops
	Community
	Entertainment
	Gas Stations
	Harley-Davidson
	Health & Beauty
	Highway Exit
	Hospital
	Hotels/Motels
	Parking
	Recreation
	Restaurants

Table 7. POI icons

Icon graphic	Description
	Shopping
	Travel

NOTE

Depending on your location, POI icons may be different.

The POI icons can be enabled or disabled by checking or un-checking the corresponding checkbox for each one of them.



Figure 62. Enable or disable POI icons

2D or 3D Map style

The map layout style can be changed between 2D and 3D.



Figure 63. 2D or 3D Map style selection



Figure 64. 2D (left) and 3D (right) Map Styles

NOTE

When the map is configured for 3D, the only option for orientation available is Heading Up.

North Up or Heading Up Map orientation

The map orientation can be changed between North Up and Heading Up.



Figure 65. North Up and Heading Up map orientation selection

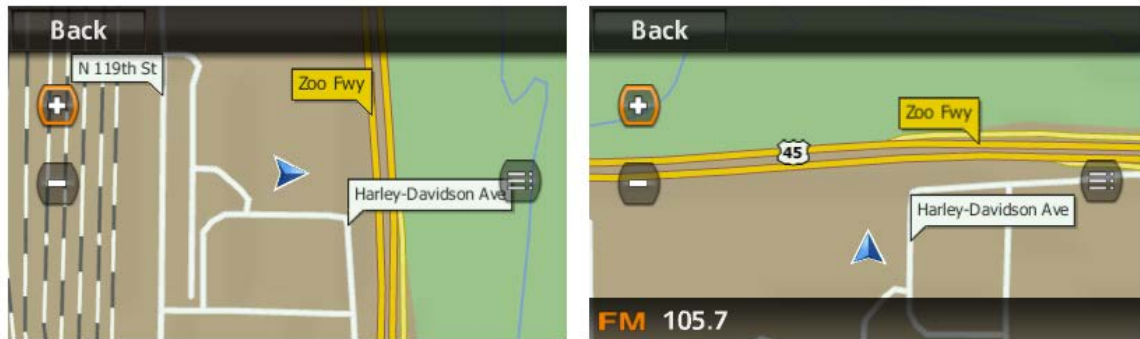


Figure 66. North Up (left) and Heading Up (right) Map orientation

Motorcycle Icon

This control allows selection of three possible position icons: Blue Arrow, Electra Glide and Street Glide.



Figure 67. Motorcycle Icons

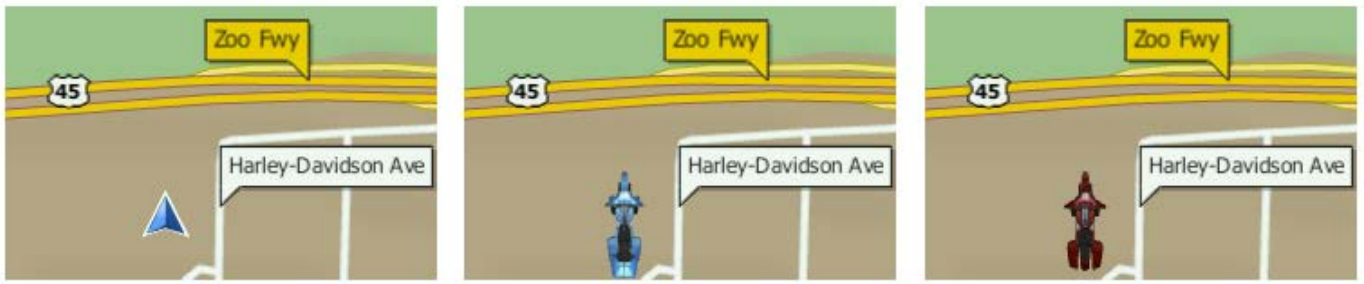


Figure 68. Blue Arrow, Electra Glide and Street Glide position icons

DRAFT

Additional Appearance options

Some additional appearance options, allow enabling or disabling presence of graphical items in the map. Check the items to be displayed on the map screen, as preferred.



Figure 69. Enable or Disable Map graphical items

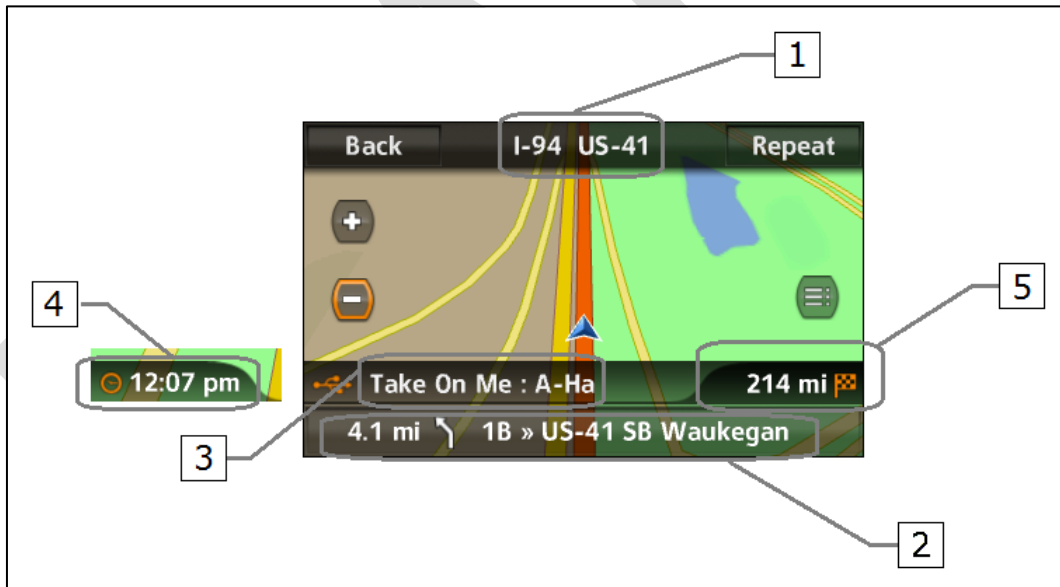


Figure 70. Appearance Options

1. Current Street
2. Next Street
3. Audio Info
4. Left Data
5. Right Data

6. Lane Guidance

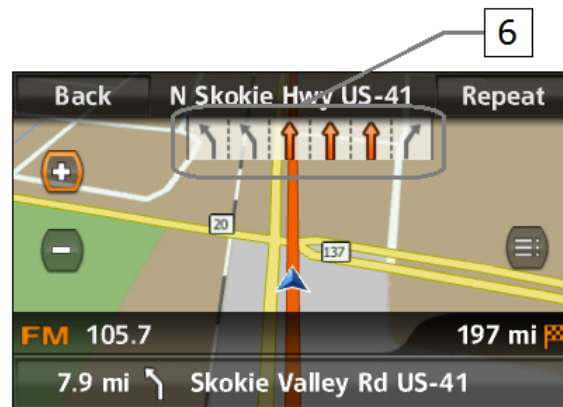


Figure 71. Lane Guidance

7. Signposts



Figure 72. Signposts

8. Speed and Flow

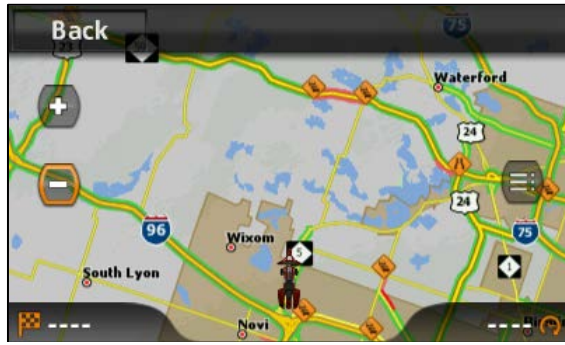


Figure 73. Speed and Flow

Rear Controls (if equipped)

The Passenger controls can be enabled or disabled by checking or un-checking the checkbox in the Rear Controls button.



Figure 74. Rear Controls Enable / Disable

System Information

This option provides version information regarding your **Boom!™ Box** Infotainment Head Unit, such as: software, hardware, your unit's serial number and EQ (Equalization) version.



Figure 75. System Information items

If your unit is equipped with Navigation System, there will also be a button for Navigation Database and software version information.



Figure 76. Navigation Software and Database Information.

The **Export For Update** option under this menu, will export important information regarding your Navigation Database. This information is required during database updates, or when buying maps to match your license. Refer to www.naviextras.com for additional information.

Language

Use this setting to change the language for the **Boom!™ Box**. The supported languages are the following: English (US), English (UK), French (CA), French (FR), German, Italian, Spanish (ES), Spanish (MX) and Portuguese.



Figure 77. Set Language screen

Classic Mode

When **Classic Mode** is enabled pressing the **Home Screen** button will cycle through all the available audio sources bypassing the **Home Screen**. In **Classic Mode** the **Home Screen** can still be invoked if the **Home Screen** button is pressed and held for a few seconds.



Figure 78. Classic Mode Enable / Disable

Classic Mode can be enabled or disabled by checking or un-checking the checkbox in the **Classic Mode** button.

Audio System operation

NOTE

To prevent the battery from being discharged, do not leave the audio system on longer than necessary when the engine is not running.

Introduction

The **Boom!**TM **Box 4.3**, **6.5GT** and **6.5T**, have the capability of playing audio from different available audio sources, such as:

- Tuner (AM, FM, WB, etc.)
- Media (audio played from connected devices through USB or Bluetooth[®])
- Sirius XM (if available).

Each individual audio source has its own screen layout. Some examples are shown:



Figure 79. FM tuner mode screen



Figure 80. Mode screen for a connected device

NOTE

On Boom!™ Box 6.5 models, in cases where the album art is available for the media songs being played, the graphics for the album art will be displayed.

Each individual source has context menus on the top-left or top-right portion of the screen, in the title bar. Additional functions related to that audio source are presented in those context menus.

Switching the audio source

NOTE

The following examples are given for when the audio system is configured with **Classic Mode** turned off, which is the default setting. Refer to the **Classic Mode** description in the **User Setup** section for more information.

The audio sources can be selected through the **Home screen**, by pressing the **Home screen** key on either the handlebar controls or radio faceplate button. Once the **Home screen** is visible, the following options can be selected: under tuner – AM, FM, WB, etc. Under Media – a list of plugged in devices.

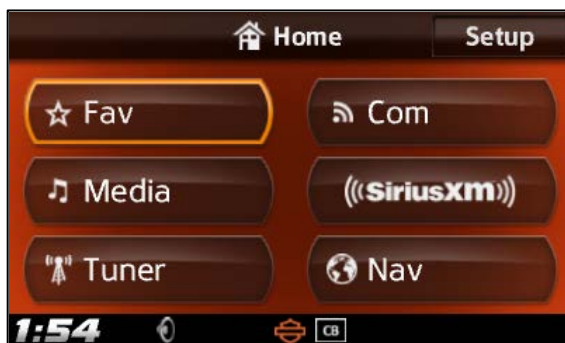


Figure 81. Home screen

The **Boom!™ Box 4.3** models don't support **Sirius XM**.

Following are some examples of switching the audio source, and the required user actions to do so:

From FM to AM: **Home screen -> Tuner -> AM**

- Bring up the **Home screen**
- Select Tuner
- Select AM.

From FM to USB device: **Home screen -> Media -> (select USB device name)**

- Bring up the **Home screen**
- Select Media
- Select the name of the desired device.

From FM to a Bluetooth® device: **Home screen -> Media -> (select Bluetooth® device name)**

- Bring up the **Home screen**
- Select Media
- Select the name of the desired device.

Usage of Presets

In the following graphical example, the numbers (1 - 5) that appear on both sides of the screen are called presets. The presets allow the user to store preferred radio stations or audio media for easy future access.



Figure 82. Presets on the FM screen

With the exception of Bluetooth® audio streaming devices, all audio sources can be saved as presets for future recall. To store a preset, switch the audio system to the desired audio source mode, or to the desired radio station that is desired to be saved. Touch and hold one of the preset selectors (1 – 5) until a beep is heard. The presets slide-out in the screen to show their content.



Figure 83. Expanded Presets on the FM screen

To recall the preset, perform a short press on the desired preset number.

Note that on **Boom!™ Box 4.3** models, you must use the faceplate soft button that aligns with the desired preset number to save and recall the corresponding preset.

The audio system has three pages of presets for a total of 15, to access the second and third preset pages, select the right arrow graphic that appears under the preset-5.

NOTE

The above description is for **Local Presets**. For **Global Presets**, see the corresponding section in the **Setup Menu**.

Usage of Favorites

Favorites work in a similar way to Presets. Favorites are programmable shortcuts to directly access radio stations, connected devices or songs that are listened to frequently. In select markets, an audio channel from Sirius XM can also be programmed as a Favorite. There are two locations of Favorites: the **Fav** faceplate button, and the list of Favorites under the **Fav** in the **Home screen**.

The usage is the same for both types of Favorites.

NOTE

Storing items from a removable device as a Favorite is possible. The items can be recalled only while the source device is connected to the system.

Fav faceplate button

For the location of the **Fav** button, see the faceplate buttons section. Only one Favorite item can be stored under the **Fav** faceplate button.

Favorites menu selection

For more than one Favorites, a list of items can be stored under the **Fav** button in the **Home screen**.

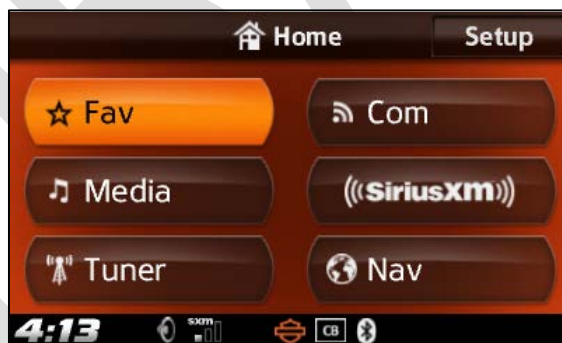


Figure 84. Fav button in the Home Screen

Following are some examples of storing and recalling Favorites, and the required user actions to do so:

NOTE

All examples described assume the source device has been previously been connected to the system.

Storing/recalling a connected device using the **Fav** faceplate button:

- Press and hold the **Fav** faceplate button.

- Select Media, followed by the name of the device.



Figure 85. Select Media from Set Favorite screen



Figure 86. Select the name of the connected device

- To recall the device press the **Fav** faceplate button.

Storing/recalling a song from a connected device using the **Fav** button in the **Home screen**:

- Begin with the system playing the favorite song to store.



Figure 87. System playing a song for storage as a Favorite

- Press the Home button to bring up the **Home screen**.
- Press the **Fav** button.
- Press and hold the button for the desired location in the list presented.



Figure 88. Select the desired location for storing the favorite item

- Select the name of the song to be saved.



Figure 89. Select the name of the song to be saved

- To recall the stored song from the device press the **Fav** in the **Home screen**.
- Select the name of the song from the stored location.

Radio Operation

Band selection

See section switching the audio source for instructions on how to select a different tuner band, for example changing from FM to AM.

FM title bar menus



Figure 90. FM Title bar and menus

Cat

In FM radio mode the following PTY (Program Type) categories are available: News, Information, Sports, Talk, Rock, Classic Rock, Adult Hits, Soft Rock, Top 40 , Country, Oldies, Soft, Nostalgia, Jazz, Classical, Rhythm & Blues, Soft Rhythm & Blues, Foreign Language, Religious Music, Religious Talk, Personality, Public, College, Weather, Emergency test and Emergency.

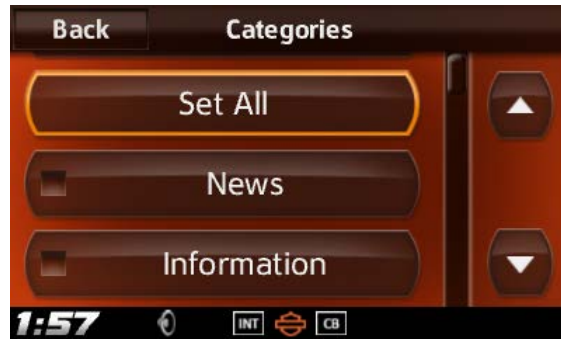


Figure 91. Categories

Making a selection of only the favorite PTY categories will make the system stop, when seeking or scanning, only on the radio stations identified with the selected PTY categories.

NOTE

Radio stations broadcasting PTY may not be available in your listening area.

To make a selection of stations in PTY categories:

- Press the Cat button to view the current selection.
- When none of the categories are checked, the radio system stops on every station available.
- Make selections by checking only the desired categories.
- Set all will check all the categories in the list.

FM Menu

The FM Menu contains controls related to Seek/Tune/Presets, Scan and RBDS functions.



Figure 92. FM Menu

Seek/Tune/Presets

This button changes the functionality of the Seek Up and Seek Down buttons on the left handlebar controls or on the passenger controls (if equipped).

- Seek: Tunes in to the next or previous strong station.
- Tune: Manual tuning, adjusting the frequency up or down.
- Presets: Increments or decrements the current radio station Preset (See [Usage of Presets](#) section for additional information).

Scan

This button begins a Scan operation. The radio continuously tunes from one strong station to the next one until the Scan operation is cancelled. Each strong station remains tuned in for 5 seconds before the radio scans to the next station. The receiver will continue to scan until cancelled. To select a station, cancel the Scan operation while the radio is tuned to that station. Press a key on the right handlebar controls (i.e. the Enter/Select key) to cancel Scan.

RBDS

When RBDS is checked the station name and song information (if available) will be displayed in the FM screen. If un-checked, only the radio frequency will be displayed.

Note: Consider referring the user to use the charts where the buttons are described. Use bullet lists.

Media device operation

Connecting Flash drives, cell phones and other USB or Bluetooth® compatible devices, allows playback through the audio system speakers, or through the headsets. Control of the device is performed through the handlebar controls, touch screen, soft keys and passenger controls (if equipped).

Device selection

See section switching the audio source for instructions on how to select a different media device, for example changing from FM to USB device.

Media playback title bar menus



Figure 93. Media Title bar and menus

NOTE

The functions described in this section are not available for Bluetooth® connected devices.

Find

On devices connected through USB, it is possible to browse through the media by different criteria: playlist, artist, album, song or genre.

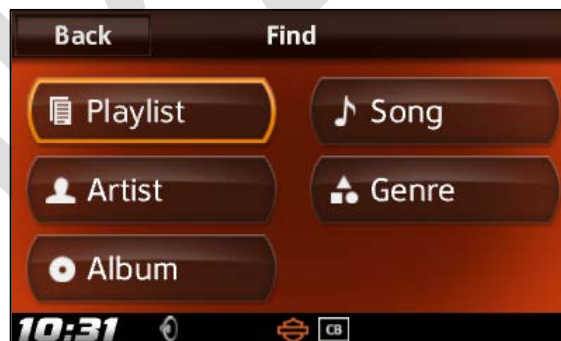


Figure 94. Find criteria for USB Media

Playlist

If the device contains playlists, selecting **Playlist** from the **Find Menu** will present a list with the available playlists.

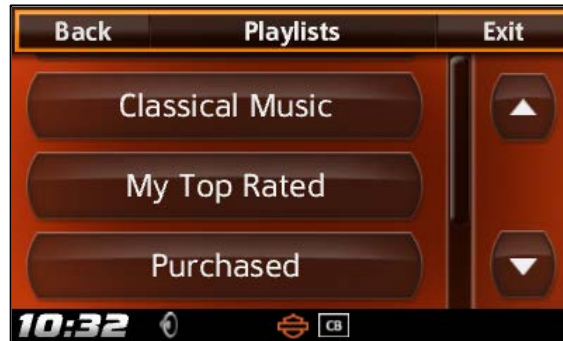


Figure 95. Playlists selection screen

Artist

Selecting **Artist** from the **Find menu** will present a list with the available artists. Since the list can be extensive a letter jump option is available by pressing the letter between the page up/page down scrolling arrows.

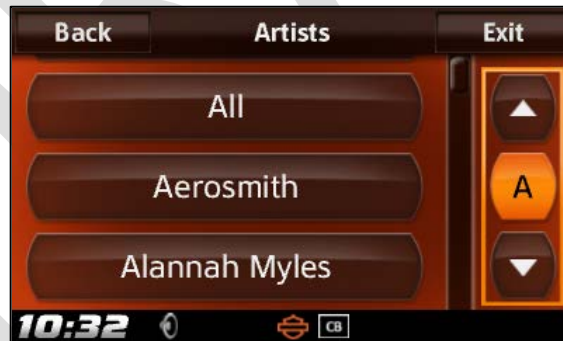


Figure 96. Artist selection screen with letter-jump



Figure 97. Letter-jump selection

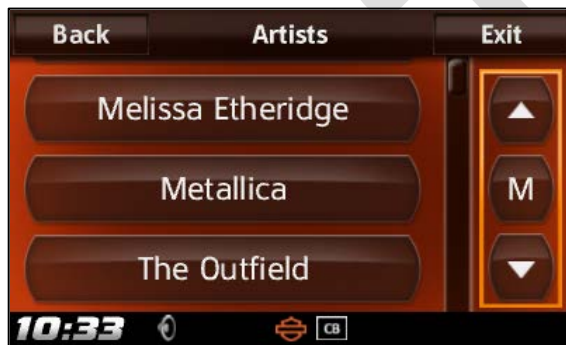


Figure 98. Artist selection after letter-jump

Album

Selecting **Album** will present a list of the available albums. Letter jump option is available.

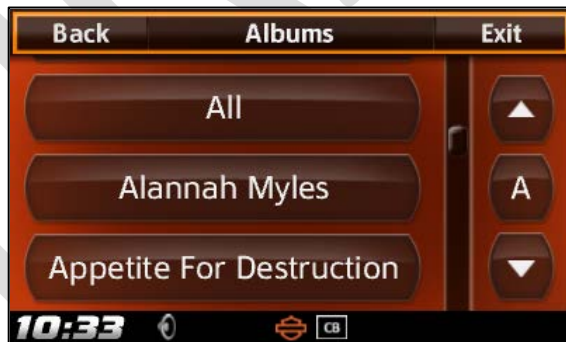


Figure 99. Album selection screen

Song

Selecting **Song** will present a list of the available songs. Letter jump option is available.



Figure 100. Song selection screen

Genre

Selecting **Genre** will present a list of the available genres. Letter jump option is available.



Figure 101. Genre selection screen

Media Menu

NOTE

Some of the functions described in this section are not available for Bluetooth[®] connected devices.

The Media Menu contains controls related to Seek/Presets, Scan, Track list, Repeat and shuffle functions.



Figure 102. Media Menu, for devices connected through USB



Figure 103. Media Menu, for devices connected through Bluetooth®

Seek/Presets

This button changes the functionality of the Seek Up and Seek Down buttons on the left handlebar controls or on the passenger controls (if equipped).

- Seek: begins playback of the previous, current or next song.
- Presets: Increments or decrements song playback according to the Preset number (See [Usage of Presets](#) section for additional information).

Scan

This button begins a Scan operation. The audio system continuously changes from one song to the next one until the Scan operation is cancelled. Each song remains playing for 5 seconds before the system scans to the next song. The system will continue to scan until cancelled. To select a song, cancel the Scan operation while the system is playing that song. Press a key on the right handlebar controls (i.e. the Enter/Select key) to cancel Scan.

Track List

This button presents a list of songs on the device connected through USB. Selection of the "i" between the Page Up / Page Down scrolling arrows will present song information.



Figure 104. Track List screen



Figure 105. Song information screen

Repeat

Pressing the Repeat button will enable or disable the repeat song option. When the checkbox in this button is checked, the current song will repeat.

Shuffle

Pressing the Repeat button will enable or disable the Shuffle option. When the checkbox in this button is checked, the sequence of the songs will change.

Communication

There are three possible devices for communications: Citizen Band radio (if equipped), Intercom (if equipped) and Phone connected through Bluetooth®.

NOTE

The Intercom and CB can be activated at the same time with the receiver modes. The Intercom and CB signals are passed to the audio circuits only if the signal strength exceeds the threshold established by CB squelch or VOX microphone sensitivity levels.

To select Communication devices,

- Go to: **Home screen -> Com**
- Select the communication device, if available.



Figure 106. Communication Screen

Citizen Band (CB) radio (if equipped)

If the CB is OFF, press the upper-left corner button labeled Off, so that it reads On. This button toggles the CB between the ON and OFF state.

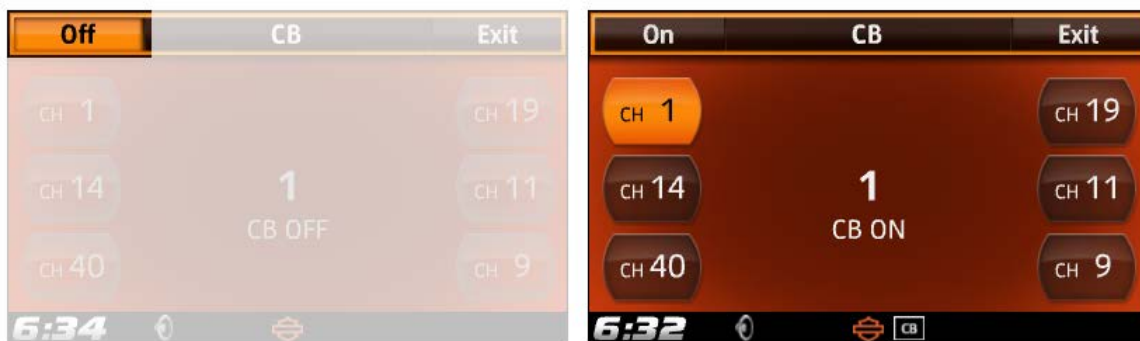


Figure 107. Turning CB On

Once activated, the CB will retain the squelch threshold and channel settings from previous use. Channels are selected by use of the Left handlebar controls Seek Down and Seek Up buttons. Favorite CB channels can be saved as Presets.

It is possible to change the Mode to other audio sources (AM, FM, Media), leaving the CB active.

The CB signal is passed to the speakers or headsets, depending on Speaker/Headset selection, from the Setup Menu.

Adjusting Squelch

The squelch threshold can be adjusted using the SQ+ and SQ- buttons from the Right handlebar controls. A scale of the CB squelch will be visible during the adjustment.



Figure 108. Adjusting CB Squelch

Only when the CB signal strength exceeds the threshold set, received signal will be passed to the speakers or headsets.

CB Transmitting

To transmit, press and hold the PTT button in the Right handlebar controls, or in the Passenger controls (if equipped). To end transmission, release the PTT button.

Adjusting CB Volume

To adjust volume of the CB in speakers or headsets, press Volume Up or Volume Down in the Left handlebar controls, when the CB screen is visible. A scale of the CB volume will be visible during the adjustment.



Figure 109. Adjusting CB Volume

Intercom (if equipped)

On select models, the Intercom functionality allows Rider and Passenger voice communication through their respective headsets/microphones.

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.

With the headsets/microphones plugged into the rider and/or passenger intercom sockets, the Intercom is voice activated (VOX).

If the Intercom is OFF, press the upper-left corner button labeled Off, so that it reads On. This button toggles the Intercom between the ON and OFF state.

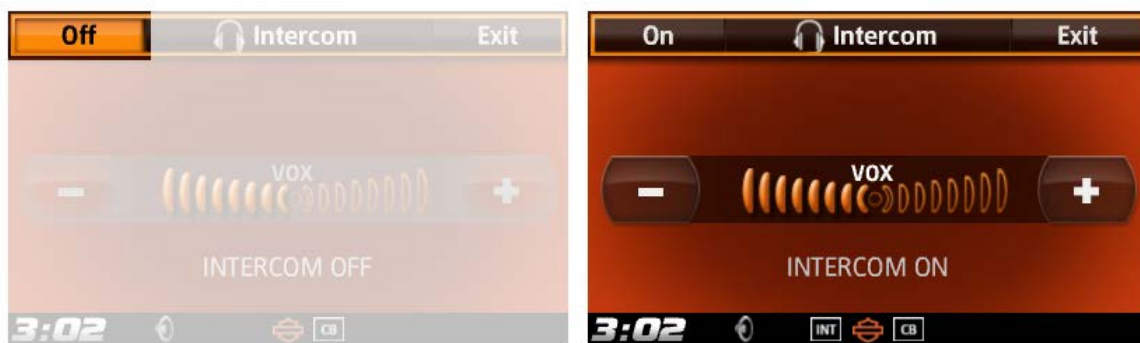


Figure 110. Turning Intercom On

Adjusting VOX sensitivity

VOX sensitivity should be adjusted so that the microphones break VOX at a normal voice level. The Intercom icon in the status bar should be helpful for performing the adjustment (See Table 6, for description of status bar icons). In the Intercom screen, press on the – or + buttons to adjust the VOX sensitivity level.



Figure 111. Adjusting VOX Sensitivity

NOTES

VOX sensitivity may need to get re-adjusted if either microphone is unintentionally activated because the microphone misinterprets radio, road or background sound as conversation.

During regular ignition cycles, the system retains the VOX sensitivity level from the previous setup.

Adjusting Rider Headset Volume

Enter the Intercom Screen, speak into the passenger microphone and adjust the Intercom volume with the Volume Up/Volume Down buttons in the Left handlebar controls. The Rider Intercom volume is adjustable from the Intercom Screen, or when Intercom audio is being received. During the adjustment of the Rider Intercom volume, the bar-graph labeled F (Front) will increment or decrement accordingly.



Figure 112. Adjusting Intercom Volume

Adjusting Passenger Headset Volume

Enter the Intercom Screen, speak into the rider microphone and adjust the Intercom volume with the Volume Up/Volume Down buttons in the Passenger controls. The passenger Intercom volume is adjustable from the Intercom Screen, or when Intercom audio is being received. During the adjustment of the Passenger Intercom volume, the bar-graph labeled R (Rear) will increment or decrement accordingly.

Phone

With the Bluetooth® hands-free system and a connected compatible phone, it is possible to make or receive phone calls without taking the hands off the handle bar.

NOTE

This section assumes that a compatible phone has been previously paired and connected through Bluetooth® for phone usage. See Bluetooth® Setup section under User Settings for instructions on pairing and connecting a phone.

To see the functions options available for phone,

Go to: **Home screen -> Com -> Phone**

This will bring the Phone Menu screen, with the name of your phone in the title.



Figure 113. Phone Menu

The Phone Menu has the following options:

- Contacts – Phone calls by using the Phone Book that got synched from the connected phone.
- Keypad – Phone calls by using the dialing keypad.
- Calls – To check for past incoming, outgoing or missed phone calls.
- Message – To enable and using Short Message Service (SMS)
- SOS – To dial or edit an Emergency number.
- Bluetooth – To Setup Bluetooth®.

Making a phone call from the Phone Book

Under Contacts, the following options are available: Phone Book, Saved and Refresh Phone Book.

Calls can be made using the phone book data of the connected phone by selecting Contacts from the Phone Menu, followed by Phone Book.



Figure 114. Phone Book selection under Contacts

The phone book changes depending on the phone connected. If a contact entry in the phone's phone book does not have a phone number stored, the entry will not be listed.

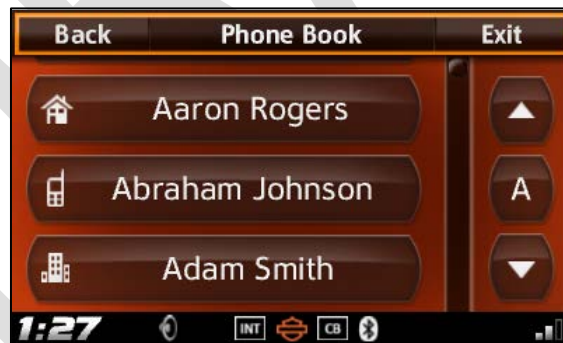






Figure 115. Contacts in a Phone Book list

Depending on the entry in the connected phone, the Phone Book is displayed with icons for home, cellular, work or other phone numbers.

Table 8. Contact phone number icons

Icon graphic	Description
	Home
	Cellular
	Work
	Other

To make a phone call simply select the phone number stored under the contact name.



Figure 116. Making a phone call from Phone Book

Show Details displays other information that belongs to the selected contact, such as other phone numbers for the same contact or an address.

The selected contact can also be saved to a local list in the **Boom!™ Box** unit, by selecting Add to Saved Contacts.

Making a phone call by dialing a number

When the number to call is not on the Phone Book, it should be possible to dial it by using the keypad in the system. To select the Keypad,

Go to: **Home screen -> Com -> Phone -> Keypad**

Once the screen with the keypad appears, the number can be typed. If a mistake has been made, it is possible to delete the last digit or digits by using the backspace key. Once the number is entered it can be saved or it can be dialed.



Figure 117. Using the keypad to dial or save a phone number

Table 9. Keypad controls

Item	Control	Description
1	Dial	Press this button to dial the number that was entered.
2	Backspace	Press this button to erase the last digit, or digits pressed.
3	Phone number entered	The entered phone number appears on the title of the screen.
4	Save	Use this button to save the entered number.

Receiving a phone call

When a call is received on a compatible and connected phone, this screen is displayed and a ring tone is heard. The rider can choose to answer or ignore the incoming phone call.



Figure 118. Receiving a phone call

Ending a phone call

During an active phone call, the call can be ended by pressing the End button in the upper-left corner.



Figure 119. Ending a phone call

Viewing call history

To display a list of received, made and missed phone calls,

Go to: **Home screen -> Com -> Phone -> Calls**

The list of all calls is displayed:



Figure 120. Displaying all calls

Note that on the top-right corner the button titled Missed, pressing this button filters the list to display only the missed calls. Depending on which screen is being displayed, this button changes between: All, Missed, Received and Dialed.



Figure 121. Missed, received and dialed call lists

Any of the displayed contacts or numbers can be dialed just by pressing the corresponding button.

Text Messages

If the Bluetooth® connected phone is compatible, receiving and replying short messages can be forwarded to the **Boom!™ Box** system.

NOTE

Not all phones in the market are compatible or support this function. Notifications under Bluetooth must be enabled on the connected phone for this function to work. Read your phone's owner's manual.

To enable the Text Message function,

Go to: **Home screen -> Com -> Phone -> Message**, and check the check-box next to Enable SMS.



Figure 122. Text Messaging

Inbox

Upon receiving one or more SMS messages, the New Messages icon will be displayed in the status bar. The Inbox will display the number of unread received messages.

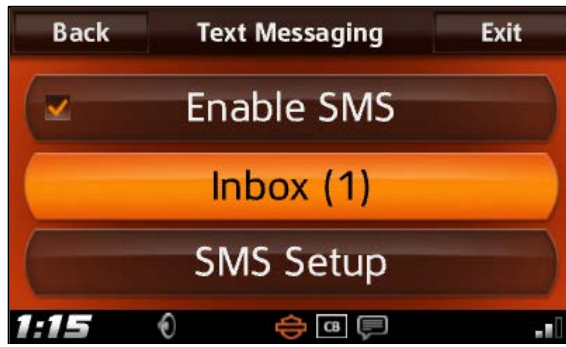


Figure 123. Unread Messages and Inbox

To see the list of received messages, press the Inbox button. Selecting a message from the screen will open that message. A Text-To-Speech (TTS) engine on the system will read the message and this will be heard through the speakers or headsets, depending on the Speaker/Headset selection for prompts in the Setup Menu. The message can be heard again by pressing Repeat, from the upper-right corner in the Inbox screen.

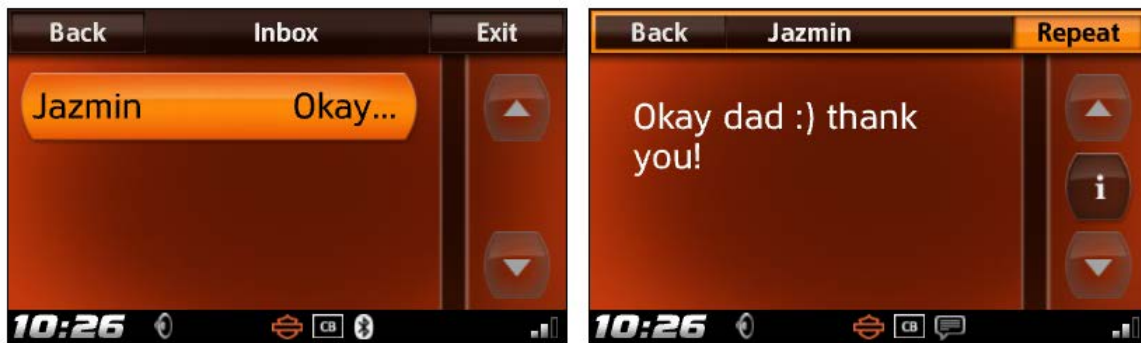


Figure 124. Inbox message selection and Text-To-Speech read-out Repeat

To see information from a selected message, press the button labeled "i" from the screen.



Figure 125. Message Information

SMS Setup

To enable, view or edit an Auto-Reply message,

Go to: **Home screen -> Com -> Phone -> Message -> SMS Setup**



Figure 126. SMS Setup: Enable, Edit and View Auto-Reply Message

NOTE

Even if incoming text messaging over Bluetooth is supported on the connected phone, the auto-reply feature may still not be supported by the device. Read your phone's owner's manual.

Select View Reply Message to display the text that will be sent automatically if the Auto-Reply function is enabled, after receiving a text message.



Figure 127. Viewing the current Auto-Reply Message text

To Edit the Auto-Reply Message, select Edit Reply Message, from the screen. The current message will appear in the title of the screen, and a keyboard will be displayed to allow typing a new message. Select OK after typing the desired text to save it.



Figure 128. Editing Auto-Reply Message text

Emergency calls

The **Boom!™ Box** prompts for an Emergency Number in case that there is not one already one provided. This prompt appears when a phone is paired and connected through Bluetooth, in case no Emergency number has been provided.



Figure 129. Prompt for Emergency Number

Follow the prompts that follow to enter an Emergency number.

To dial the Emergency Number that was stored,

Go to: **Home screen -> Com -> Phone -> SOS**

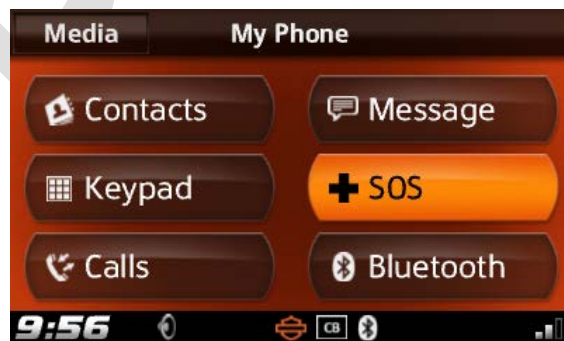


Figure 130. Select SOS for Emergency Numbers

Then select **Dial**



Figure 131. Dialing the Emergency Number

From this screen, editing or clearing the Emergency number can be done by selecting **Edit #** or **Clear**.

Voice Recognition Operation

The Voice Recognition system allows control over AM, FM radio, Sirius XM (if equipped), multimedia player and navigation system (if equipped).



WARNING

- Any voice commanded system should be used only in safe driving conditions following local laws.
- All attention should be kept on the roadway ahead.

NOTE

Always speak into the headset microphone as calmly and normally as possible. Rapid speech or a raised voice level will degrade voice recognition capability.

When the Voice Command button is pressed on the Left handlebar controls, a beep will sound. The beep is a prompt to speak a command. The system will present a list of possible commands.

Pressing the Voice Command button while the system is speaking is known as “barging in”. The system will be interrupted and you can add or change commands.

NOTE

4.3 Models use Voice Recognition for Phone functions, in US English language only.

6.5 Models use Voice Recognition for Phone and other functions in all the supported languages.

The voice commands are classified by functions, which are:

- Phone commands (4.3 and 6.5 models)
- Media commands (6.5 models only)
- Tuner commands (6.5 models only)
- Navigation commands (6.5 models only)
- Other commands (6.5 models only)
- Help commands (6.5 models only)

NOTE

Maybe will need to rephrase this, but want to capture the idea:

VR commands are global in nature, as opposed to mode specific. For example, the rider should not have to say “XM” before saying “Channel Up”; the system could be in any Tuner or Media mode and simply say “Channel Up”, and a switch to Sirius XM mode is implicit.

Phone commands (4.3 and 6.5 models)

These commands are useful for controlling Phones connected through Bluetooth®:

- **CALL** (followed by contact name) – Dials the contact’s phone number as entered on your phone book.
- **DIAL** (followed by a phone number) – Dials the specified phone number.
- **REDIAL** – Dials again the last number dialed.

Media Commands (6.5 models only)

These commands are useful for controlling audio devices connected through Bluetooth® or USB.

In this mode you may say the following commands:

- **PLAY** (followed by artist, album or song) – to play music, according to selection.

- **ARTIST** (followed by artist) – to play songs from a specific artist.
- **ALBUM** (followed by album) – to play songs from a specific album.
- **SONG** (followed by song) – to play the commanded song.
- **SEARCH FOR MUSIC** (followed by song, or **LIST ALL**) – to search for a song or list all songs.
- **GENRE** (followed by genre name, or **LIST ALL**) – to search for songs of specific genre, or list all available genres.
- **PLAY PLAYLIST** (followed by playlist name) – to play songs from the mentioned playlist.
- **NEXT TRACK** – to play the next track.
- **PREVIOUS TRACK** – to play the previous track.
- **ALL SONGS** – to play all songs.
- **MEDIA** – to change to Media mode.

Tuner commands (6.5 models only)

These commands are useful for selecting radio bands and stations.

- **TUNE TO** (followed by the radio station frequency) – to change the radio frequency.
- **SEEK UP** – To select the next radio station.
- **SEEK DOWN** – To select the previous radio station.
- **NEXT PRESET** – To select the next Preset.
- **PREVIOUS PRESET** – To select the previous Preset.
- **A M** – To select AM band.
- **F M** – To select FM band.

Tuner commands for Sirius XM (if equipped)

- **X M** – To change mode to Sirius XM (alternative commands: **SIRIUS, SAT, SATELLITE**).
- **CHANNEL** (followed by channel name or number) – To go to the requested Sirius XM channel.
- **CHANNEL UP** – To select the next Sirius XM channel.
- **CHANNEL DOWN** – To select the previous Sirius XM channel.
- **CHANNEL SCAN** – To scan through the Sirius XM channel list.

Navigation commands (6.5 models only)

- **HOME** – Once a Home address has already been defined, this command will set that address as the Navigation destination.
- **DESTINATION** (followed by address) – Sets the spoken address as a Navigation destination.

NOTE

*As a recommendation, enter a destination in one shot as in the following example (excluding the ZIP code): say "**DESTINATION** 400 West Canal Street Milwaukee, Wisconsin".*

- **FAVORITE** (followed by the favorite name) – Sets the destination to a favorite address in the favorite list.
- **FIND NEXT** (followed by a POI name) – finds the closest location for a given POI, or brand.
- **SHOW MAP** – This command is useful to switch to the Navigation map, when it is not currently visible.
- **CANCEL ROUTE GUIDANCE** – Cancels the current route guidance.
- **REPEAT INSTRUCTIONS** – Repeats the last voice instruction provided by the Navigation route guidance.

Any of the following commands enters an interactive destination address entry dialog:

- **ENTER COUNTRY**
- **ENTER STATE**
- **ENTER CITY**
- **ENTER ZIP CODE**
- **ENTER STREET**
- **ENTER HOUSE NUMBER**

Navigation Operation (if equipped)

Your navigation system receives GPS signals from an array of positional satellites to display the geographical position of your vehicle.

When you input a destination, the navigation system uses a map database to calculate a route.

The system's database includes Point of Interest (POI) categories to allow you to easily select destinations such as restaurants, hotels and other common destinations. If a destination is not in the

database, you can enter the street address or a major intersection close to it and the system will guide you to reach such destination.

As you ride along your chosen route, you are guided with pictorial displays and voice prompts.

The system will provide both a visual map and audio instructions. The audio instructions will announce the distance remaining and the direction to turn in approaching an intersection. These voice instructions will help you keep your eyes on the road.

The system has several options for Navigation. Read the User settings Navigation section for more information on these settings.

NOTE

*After the Bike or the **Boom!**TM **Box** has just recently been powered on, the Navigation System needs some time to initialize. To begin using the Navigation system, wait until the system has finished the initialization process.*

Selecting Navigation Main Menu

The Navigation Main Menu can be reached by pressing the **Navigation/Compass** hard key on the faceplate, or by selecting **Nav** from the **Home Screen**.



Figure 132. Navigation Main Menu

The **Navigation Main Menu** has six menu items on the center of the Navigation Main Menu screen: Map, POI, Dealerships, Where To, Recent and Emergency.

In addition to the items mentioned above, the Navigation Main Menu has two items on the title bar: On the left side, there is a way to go back to the last active audio mode (FM shown in the picture). On the right side, there is a Menu with options pertaining Navigation. For instructional purposes within this manual, this will be referred as the **Navigation Secondary Menu**.

All this items are explained in the following sections:

Last Audio Mode used (FM, for example)

Selecting the top-left item in the title bar of the Navigation Main Menu allows the user to go back to the last audio source mode (AM, FM, USB device, etc...).

Navigation Secondary Menu

Selecting **Menu** on the top-right item in the title bar of the Navigation Main Menu screen, allows the user to use the following features: Location, Import and Export.



Figure 133. Navigation Secondary Menu



Figure 134. Navigation Secondary Menu items

Location

Selecting **Location** from the **Navigation Secondary Menu** allows the user to see the **Location** screen. This screen will show a bar-graph with the GPS signal strength. Provided that there is good signal reception, information for the current geographical location will be displayed, such as the address (if found in the Navigation database), and the geographical coordinates (geo-coordinates).

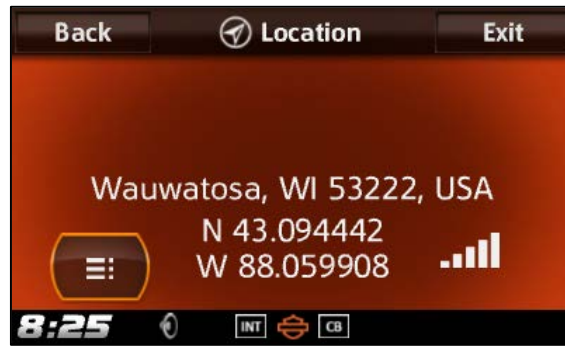


Figure 135. Current Location information

Note that there is a button on the left side of the geo-coordinates. Pressing this button will give access to some additional functions related to the current location, such as: POIs Nearby, Map, Save and GPS. In this screen it should also be possible to change the geo-coordinates formatting between: **h-ddd mm.mmm** and **h-ddd.dddddd**. Note that the location screen will continue to be in the format of **h-ddd.dddddd**.

Import

Note: As of Radio SW 1.16.8, this feature is not clear. Need to verify with the SW development team.

Export

Note: As of Radio SW 1.16.8, this feature is not clear. Need to verify with the SW development team.

Displaying the Map screen

To display the Map screen, press **Map** from the **Navigation Main Menu**



Figure 136. Select Map from the Navigation Main Menu to display the Map screen

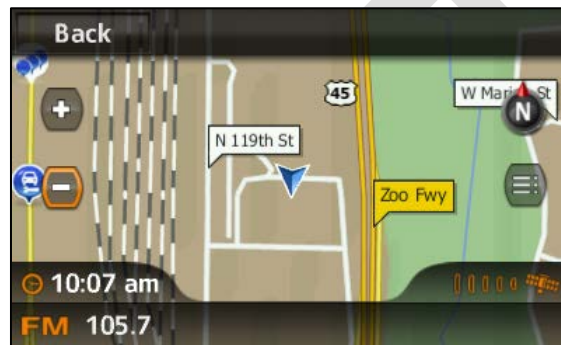


Figure 137. Navigation Map screen

The Map screen contains different elements that are useful to accomplish specific tasks, such as:

- **Back:** located on the top-left corner of the screen, this title bar button will go back to the **Navigation Main Menu**.
- **Zoom “+” button:** This button zooms in the map.
- **Zoom “-” button:** This button zooms out the map.
- **Left data field:** This field (clock shown in Figure 137) is configurable to display from a list of options. Tap on this field to make a selection.
- **Right data field:** This field (GPS accuracy shown in Figure 137) is configurable to display from a list of options. Tap on this field to make a selection.
- **Audio Info:** This field (FM 105.7 shown in Figure 137) displays the current audio mode. Tap on this field to display the corresponding screen for the current audio mode.
- **Navigation Slide-out menu:** The Navigation slide-out menu contains the following Navigation options:
 - **POIs Near:** Equivalent to selecting **POIs** from the **Navigation Main Menu**.
 - **Appearance:** Equivalent to selecting **Appearance** from the **Navigation Setup Menu**.
 - **Trip Summary:** This screen provides information for a current trip, containing start and end time, average speed, fuel used, and mileage (if available).
 - **Record On:** Checking this option will draw a line on the map for roads that have been used in the past.
 - **Compass:** Accessing this menu item will display the Compass screen.

- **Weather (if available):** Accessing this menu item will display the Weather overlay on the map (if available).



Figure 138. Press the Navigation slide-menu button to display the slide-menu

Points of Interest (POIs)

Selecting POIs from the **Navigation Main Menu** (or from the **Slide-out Menu**), will allow the user to find Points of Interest, such as Restaurants, Gas Stations, Hotels, Shopping and other typical categories. Once the desired POI is found and selected, the Navigation system can calculate a route to go from current location to the destination address of such POI.

The Point Of Interest can be searched by Category, by the business phone number or by spelling the POI name. The system defaults to the current location. Pressing the button that is labeled **Near Your Location...** will allow to choose between around a specific city, or around a route (if active). If there is already a destination set, the system can find for POIs around the destination address.

If a preferred category has been saved from previous POI searches, this list of categories can be found under **Preferred** for a subsequent search.



Figure 139. POI screen

Harley-Davidson Dealerships

Selecting **Dealerships** from the **Navigation Main Menu** will provide a list of Harley-Davidson dealerships locations. This list will be sorted to display the closest dealerships to your current location on top of the list.

Destinations (Where To)

Selecting **Where To** from the **Navigation Main Menu**, will display the **Destinations** screen.

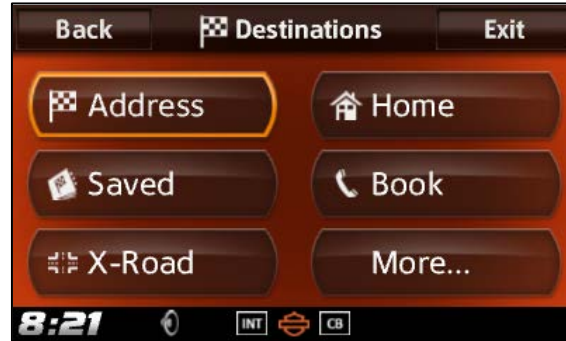


Figure 140. Destinations Screen

The **Destinations** screen presents different options to set a destination:

- **Address:** If the destination address is known, it can be directly entered after selecting **Address**.
- **Saved:** If previously saved, the user can retrieve a saved destination.
- **X-Road:** This option is used to indicate an intersection of two streets, as the destination.
- **Home:** If a home address has already been set, selecting **Home** is useful for selecting that home address as the destination.
- **Book:** Displays a list of addresses saved on an address book from a Bluetooth® connected phone, or from an address book saved on the **Boom!™ Box**.
- **Trips:** This options allows the user to store a number of addresses, under a given trip name.
- **Trails:** This option allows saving a calculated route, or retrieving a saved route.
- **GEO:** This option is useful in cases where an address is not known. The latitude/longitude geo-coordinates can be provided to the navigation system to route to that specific geographical location.

Recent Destinations

Selecting **Recent** from the **Navigation Main Menu** displays a list of recently found or used addresses or locations. These locations can be set as destinations.

Emergency Destinations

Selecting **Emergency** from the **Navigation Main Menu** is a quick way of finding emergency help provider locations for Hospital, Police and Fire Department close to the present location.



Figure 141. Emergency destination warning.



Figure 142. Emergency screen

PND (Personal Navigation Device)

DRAFT

Sirius XM Operation (If equipped)

On select models, a Sirius XM receiver has been included in your **Boom!™ Box** Infotainment unit.

Sirius XM features Radio Services and Specialty Services.

Radio Services allows you to listen to a variety of music and audio programs provided on the Sirius XM channel line-up.

Specialty Services include: Traffic, Weather, Fuel and Forecast information.

Radio Services

To listen to Sirius XM Radio,

Go to: **Home screen -> Sirius XM -> Radio**

Changing a channel

To change the audio channel select **Channel** from the top-left screen, and make your selection from the list.



Figure 143. Changing a Channel



Figure 144. Making a channel selection



Figure 145. Channel selected

Direct Tune

If you are familiar with the channel number you want to hear, it is possible to directly enter the number. To do this,

- Select **Menu** from the Sirius XM screen (see figure 134).
- Select **Direct Tune**.
- Enter the channel number.
- Select **Tune**.



Figure 146. Direct Tune

Artist/Song Tagging

To tag an artist or a song go to the **Menu** in upper-right corner of the Sirius XM audio source screen, and select **Tag This** from the menu.

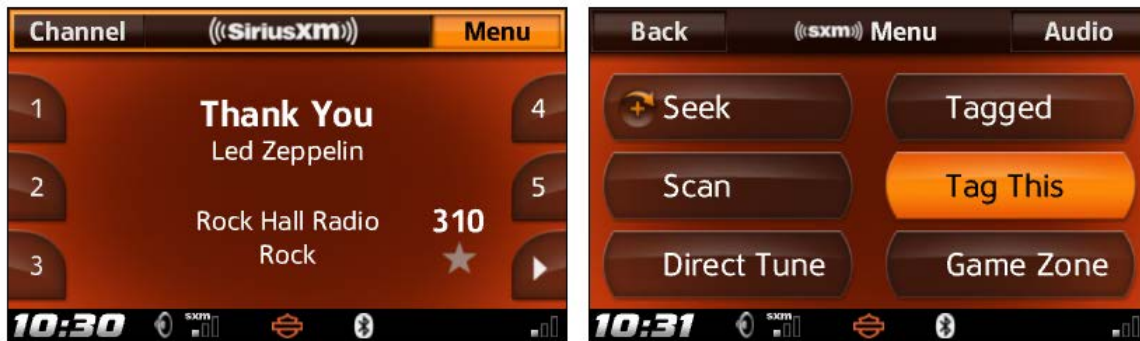


Figure 147. Select Tag This to tag an artist or a song

The system will prompt you to select between song or artist to be tagged. Once a selection has been made, the system will confirm your selection.

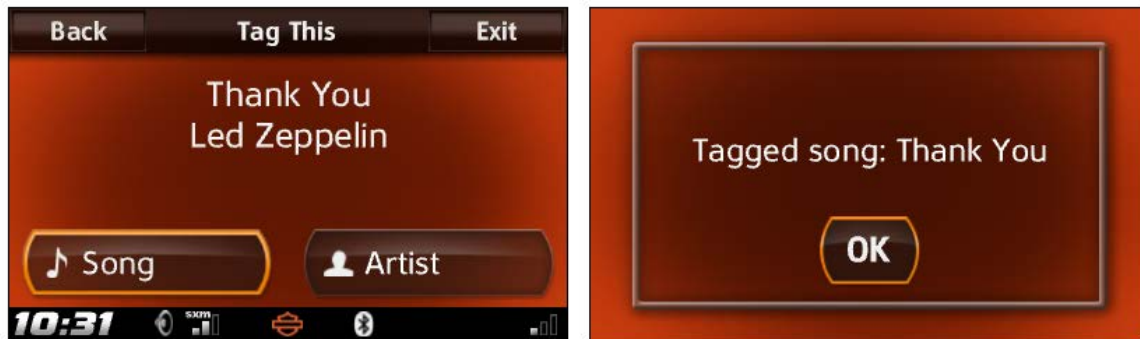


Figure 148. Select Song or Artist to tag, the system will confirm your selection

WARNING! DO NOT manage or edit your tagged artist/song list while your vehicle is in motion.

Your **Boom!™ Box** can track up to 200 of your favorite songs or artists.

Once a song or an artist is tagged, you can set your **Boom!™ Box** to alert you when either the song or the artist is playing on any channel at any time.

To set the alert on or off go to the Menu in upper-right corner of the Sirius XM audio source screen, and select Tagged from the menu, and in the Tagged screen check the check-box in the Song/Artist Alert button. A list of the tagged songs and artists is visible in the Tagged screen.

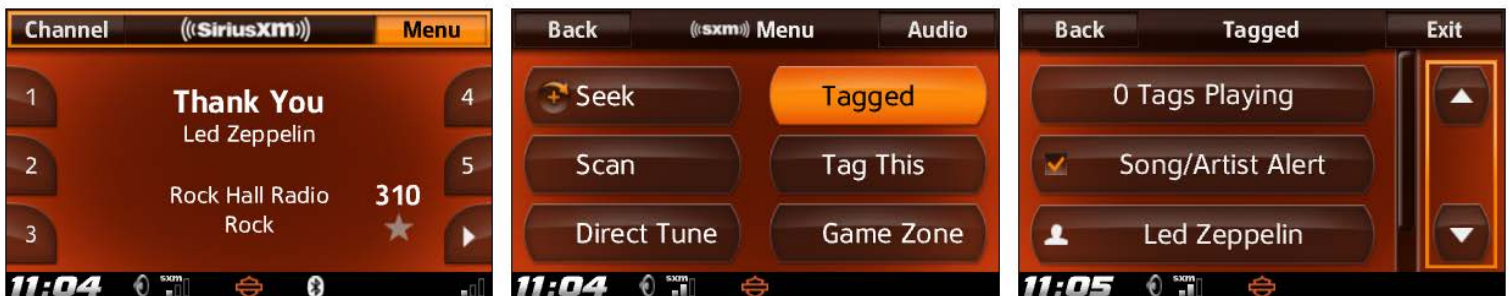


Figure 149. Alerts for tagged artists or songs can be enabled or disabled

When a tagged song or artist plays on any channel you'll see a tagged song/artist alert pop-up.



Figure 150. Tagged Song/Artist alert pop-up

To switch to that channel, tap **Listen**. To dismiss the pop-up and remain on the current channel, tap **Ignore**.

Game Zone

You can set your **Boom!™ Box** to alert you when your favorite sports teams are playing. To enable the Sports alerts, check the check-box in the **Sports Alerts** button.

The Sports listing of the **Game Zone** screen lets you set alerts for your favorite sports teams and leagues. When an event involving one of your selected teams is playing on any channel, you'll see a pop-up.

To switch to that channel, tap Listen. To dismiss the pop-up and remain on the current channel, tap Ignore.

DRAFT

Specialty Services

To use the Sirius XM Specialty services,

Go to: **Home screen -> Sirius XM -> Specialty Services**

Traffic

Weather

Fuel

Forecast

DRAFT

Vehicle Status

Pressing the Information button on the Right handlebar controls brings up the Vehicle Status screen. This screen displays: Ambient Air Temperature, Oil Pressure, and EITMS information, as measured by the vehicle's instrumentation. Refer to the vehicle's owner's manual for additional information.



Figure 151. Vehicle status screen

Troubleshooting

Error Messages

Care and cleaning

Note: Mike Schiesl will provide this information.

Warranty

Note: Mike Schiesl will provide this information.

Frequently Asked Questions (FAQ)

Regulatory

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.

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: - Increase the separation between the equipment and receiver. - Consult the dealer or an experienced radio technician for help.

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.