



ELITE

BEHDIN98 USER MANUAL

BLUETOOTH® | 288 WATTS
SINGLE-DIN MP3/WMA AM/FM RECEIVER
FEATURING 3" (76.2 mm) MONOCHROME LCD DISPLAY
AND DIRECT FIT FOR HARLEY-DAVIDSON® ELECTRA GLIDE®,
STREET GLIDE® AND ROAD GLIDE® MODELS





Thank you for choosing our product!

Please read the instructions carefully so you will know how to operate your product properly.

If there are any technical questions, please contact:

Customer care: (805) 751-4853 & Live chat

Online support: www.bosssaudio.com/support

IMPORTANT

Please enter below the Serial No. which is located on the exterior of the product. Retain this information for future reference.

Model No. _____

Serial No. _____

Date of Purchase _____

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Introduction and Compatibility

- The unit is designed to provide a direct fit to replace factory radio for 1998-2013 Harley-Davidson® models (Electra Glide®, Street Glide® and Road Glide®).
- Connect your factory wiring harness and connectors to this unit to retain functionality or handlebar audio controls. However, the following features are not compatible: factory amplified systems, intercom, CB, rear volume controls, 1998-2005 Ultra rear speakers, and factory equipped satellite radio systems.

Package Contents

When first unpacking this product, please check that the package contains each of the items listed below. If something is missing, contact the store where you purchased the product.

- 1 x Multi-media receiver (with multiple cable connectors)
- User manual and warranty card

Important

Please read and understand all instructions before you use your product. Failure to follow the instructions could result in injury and/or damage that could potentially void the warranty.

Safety Precautions

- Do not disassemble or modify this product. This can result in short circuits, fires, electric shocks or other hazards.
- Be sure to observe the following guidelines:
 - Do not increase speaker volume so high that you cannot hear what is around you.
 - Use caution or temporarily discontinue use in potentially hazardous situations.
- Do not make any adjustment on the product when driving or in other situations where distractions can be hazardous. Responsible and safe driving is your primary responsibility when operating a vehicle.
- Start volume at a low setting then gradually increase the volume until you can hear it comfortably, without sound distortion or ear discomfort.
- In the event of smoke, strange noise or odor emitted from the product or any other abnormal operational signs appearing on the product, disconnect the product from the power supply. Discontinue use and contact your dealer or our technical support. Using the product in this condition may result in permanent damage to the system.
- Servicing must only be carried out by a technician. Contact our technical support for any service questions.

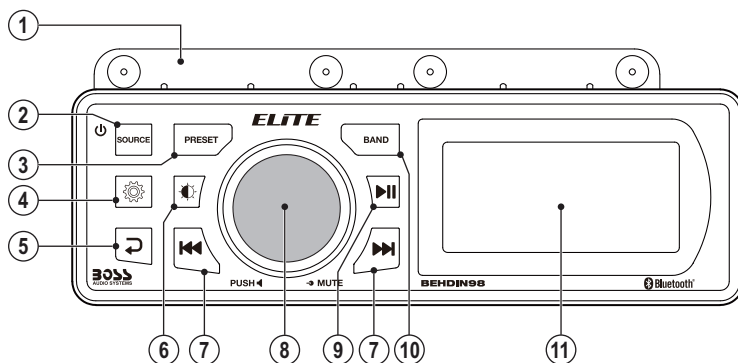
Installation Precautions

- **WARNING: Always consult a professional installer.**
- Installation must be performed by a professional. Contact our technical support for any installation questions.
- Use only installation parts provided with the product.
- Before installation, disconnect the negative terminal of the vehicle battery to prevent damage to the product, fire, and/or possible injury.
- Observe the safety and operating instructions of the devices which are connected to the product.
- This product is resistant against splashing water. Do not submerge.

Environmental Care

Do not throw away the product with normal household waste at the end of its life. Follow your local laws if/when disposing of electronic products. By doing this, you help preserve the environment.

Control Panel Description



1 Dedicated mount bracket

Fasten a dedicated external amplifier (modeled "BHD3F", sold separately) on top of the unit.

2 SOURCE

- Press to power the unit on; Hold down to power the unit off.
- Select a source.

3 PRESET

- Select a preset radio station.
- Press and hold to preset the current station.

4

- Press briefly to enter sound settings.
- Press and hold to enter system settings.

5

Return to the previous menu option level, or exit the menu.

6

- Press to adjust brightness of screen and button lights: high, medium and low.
- Press and hold to switch button illumination color between white and amber.

7

- In USB/Bluetooth play, select the previous or next audio file; Hold down to fast search.
- In radio source, press briefly to tune to a radio station.
- Navigate menu options.

8 Function knob

- Rotate to adjust volume, or to change menu setting values.
- Press to mute or restore volume.

9

Press to start, pause or resume play.

10 BAND

In radio source, select a radio band (FM1/FM2/FM3/AM1/AM2).

11 LCD Display

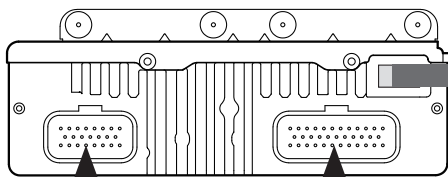
Wiring



See the section "Installation Precautions".

Disconnect the negative terminal of the vehicle battery prior to wiring.

Always run signal wires away from power cables to reduce the possibility of noise.

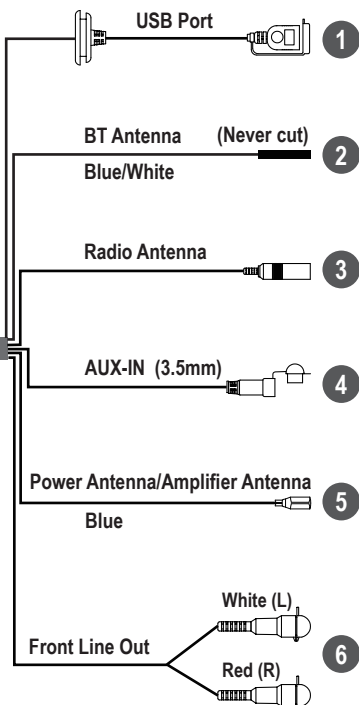


23-Pin Male Connector

Connect to the 23-pin Harley-Davidson® factory wiring harness.

35-Pin Male Connector

Connect to the 35-pin Harley-Davidson® factory wiring harness.



Power Connection (Plug and Play)

To power the unit, simply connect your Harley-Davidson® factory harness to the unit.

Other Connections

- 1: Connect to a USB flash drive for music playback; or charge a mobile phone (1.5A).
- 2: Bluetooth antenna for better reception. **Never cut, short or ground this wire.**
- 3: Connect to a FM/AM radio antenna (not included) for better reception.
- 4: Connect to a mobile phone or MP3 player for music playback.
- 5: Connect to an external amplifier (not included) for power supply control.
- 6: Connect to the front audio input on an external amplifier (not included).

Mounting



See the section "Installation Precautions".

Disconnect the negative terminal of the vehicle battery prior to installation.

Install the unit where it does not interfere with your driving.

If you must modify the vehicle for the installation, make sure you do not impair the safety and structural integrity of the vehicle.

Before you drill or cut any holes, investigate your vehicle's layout very carefully. Take special care when you work near the fuel tank, fuel lines, hydraulic lines and electrical wiring.

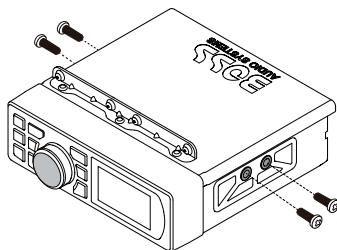
Mount the Unit

This unit is designed to replace your factory stereo, and use your existing factory wire harness to plug and play.

1. Finish wiring connection to the unit. (P.5)
2. Power on the unit. Perform a function test to ensure correct operation.
3. Access the factory fairing stereo opening. Correctly place the unit in the opening. Secure the unit on both sides using four factory bolts.

Make sure the unit is firmly attached to avoid vibration while riding due to loose unit grip.

Make sure connection cables are not pinched or damaged by sharp objects or moving parts.

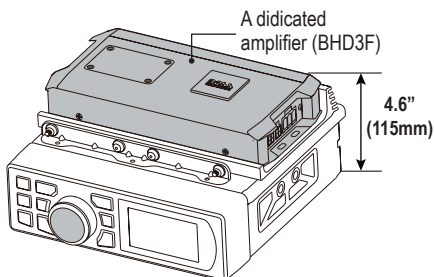


Mount a Dedicated Amplifier (Optional)

This unit is equipped with a fixed mount bracket which is used to mount a dedicated amplifier (modeled "BHD3F", sold separately) on top of the unit.

What You Need





- Make sure your Harley-Davidson® motorcycle has sufficient factory stereo opening space (minimum **4.6"/115mm** height) to mount a dedicated amplified on top of this unit.
- Purchase the product (modeled "BHD3F") which comes with the dedicated amplifier and two speakers.
- Mount the dedicated amplifier on top of this unit. For mounting instructions, refer to the Installation Instructions provided with BHD3F.



Power on/off

- To power the unit on, press **SOURCE**.
 - When powered on, the unit switches to last selected source and the button lights are illuminated.
- To power the unit off, press and hold **SOURCE**.
 - When powered off, the display and the button lights are turned off.



Set Clock

1. Press and hold  to enter system settings.
2. Press   to display the following clock options.
 - CLOCK SET (Hour-Minute)
 - CLOCK 12H/24H
 - CLOCK AM/PM
3. When "CLOCK SET" is displayed, rotate the function knob counterclockwise to set hours; rotate the function knob clockwise to set minutes.
When 12/24H option is displayed, rotate the function knob to select 12 or 24 hour format.
When AM/PM option is displayed, rotate the function knob to select AM or PM.
4. Press  to exit the settings. The new settings will be saved.

Adjust Volume





- To increase or decrease volume, rotate the function knob.
- To mute or restore volume, press the function knob.

Adjust Screen/Button Illumination

- Press  to select a brightness level for screen and button lights: High, Medium or Low.
- Press and hold  to switch button illumination color between white and amber.

Key-Press Tone

You can turn on or off key-press tone (sound made when pressing a button).

1. Press and hold  to enter system settings.
2. Press   until "BEEP ON" or "BEEP OFF" is displayed.
3. Rotate the function knob to select "BEEP ON" or "BEEP OFF" to activate or deactivate key-press tone.
4. Press  to exit the settings. The new settings will be saved.

Listen to Radio

You can listen to FM and AM radio, and preset the radio stations. The preset radio stations will be retained if the unit is disconnected from the vehicle's battery.

Select a Radio Band

1. Press **SOURCE** to select radio source. The radio icon is displayed.
2. Press **BAND** repeatedly to select FM1, FM2, FM3, AM1 or AM2.

Tune to a Radio Station


1. Select an FM or AM radio band.
2. Press **◀▶** briefly. The unit will find a station with strong reception.
 - If an FM radio station with stereo signal is reached, "ST" will be displayed.
3. Repeat the steps above until you find your desired station.

To tune to a weak station

1. Press and hold **◀▶** to enter manual tuning mode. "M" is displayed and flashing.
2. When "M" is flashing, press **◀▶** repeatedly to search by frequency step until you find a desired station with acceptable reception.
 - NOTE: Manual tuning mode will automatically exit after five seconds of button inactivity.

Store Radio Stations

Each radio band (FM1/FM2/FM3/AM1/AM2) can store six radio stations.

1. In radio source, hold down  twice to enter radio setting menu.
2. Press **◀▶** until "AUTO STORE" is displayed.
3. Press the function knob to start searching radio stations.
 - All FM or AM stations will be stored in FM or AM bands. The first stored station will be automatically broadcast.

Preset a Radio Station

You can preset six radio stations in each radio band (FM1/FM2/FM3/AM1/AM2).





1. Select a radio band and tune to a radio station.
2. Press and hold **PRESET** to enter program mode. "MEM P1" is displayed.
3. Rotate the function knob to allocate a number (1-6) to the current station.
4. Press the function knob to confirm the selection.

To select a preset station

1. Select a radio band.
2. Press **PRESET** briefly to select a preset station.
 - The current preset number is displayed.
 - If an FM radio station is broadcast with stereo, "ST" is displayed.



Radio Settings

You can access the radio menu to change settings for your radio.

1. In radio source, hold down  twice to enter radio setting menu.
2. When a radio menu option is displayed, press   briefly to select an option. Then rotate the function knob to change an option setting.
 - **AREA USA/ AREA EUR:** Select America or Europe you are in to receive radio signal.
 - **LOCAL ON/ LOCAL OFF:** Select "LOCAL ON" when most FM stations are strong enough (e.g. in urban areas). Only the stations with strong signal will be received.
Select "LOCAL OFF" when most FM stations are weak (e.g. in the countrysides). Stations with both strong and weak signals will be received.
 - **FM ST/ FM MONO:** Select stereo or mono reception. When FM signal is weak, select mono to improve sound quality (stereo will be lost).
 - **AUTO STORE:** Press the function knob to search and store FM or AM radio stations.
3. Press  to exit the settings.

Bluetooth Streaming

When you can stream music from your mobile device (e.g. a mobile phone) to the unit for the first time, you must pair the unit with your mobile device through Bluetooth.


1. Press **SOURCE** to select Bluetooth source.
 - "BT AUDIO" is displayed briefly, then "NO DEVICE" is displayed. The  icon flashes to indicate that the unit is now in pairing mode.
2. On your mobile device, enable Bluetooth then select "Boss Audio ELITE BEHDIN98" to pair the unit with your mobile device. If prompted for password, input "0000" on your mobile device.
 - When the unit connects to your mobile phone, the  icon turns to be steady from flashing.
 - The unit automatically connects the last paired device each time the two are powered on. To connect a second Bluetooth device, you have to disconnect the currently connected device then repeat the steps above to pair with a second device.

Playback Control

1. When the unit connects to your mobile device, you can then play audio files from your mobile device. Music will be streamed to the unit.
 - During playback, the display scrolls the following information: Artist Name/Song Title/Play Time/Album Name.
 - For best sound performance, set the volume of your mobile device to maximum, then adjust the volume through the control on the unit.
 - **Note:** If there is distortion heard, you may need to turn the volume of the mobile device down a level or two.
2. Control playback as follows.
 - To pause or resume play, press **⏸**.
 - To select the previous or next music file, press **⏮** or **⏭**.
 - To search fast, press and hold **⏮** or **⏭**.
 - If there is an incoming call during playback, music will automatically pause and resume after the call ends.

Disconnect/ Re-connect Bluetooth Connection

You can disconnect and reconnect the current Bluetooth connection through this unit.


1. Press and hold  to enter system settings.
2. Press **⏮** or **⏭** briefly until "BT CONNECT" or "BT DISCONNECT" is displayed.
3. Rotate the function knob to select "BT DISCONNECT" or "BT CONNECT" to disconnect or re-connect Bluetooth connection.

USB Playback

This unit can play audio files stored in a USB flash drive.



1. Insert a USB flash drive to the USB port on the unit.
2. Press **SOURCE** to select USB source.
 - "USB PLAY" is displayed briefly, then audio files from the USB device will play automatically. The USB icon is displayed.
 - During playback, the display scrolls the following information: Artist Name/Song Title/Play Time/Album Name.
3. Control playback as follows.
 - To pause or resume play, press **⏸**.
 - To select the previous or next music file, press **⏮** or **⏭**.
 - To search fast, press and hold **⏮** or **⏭**.

Select Play Mode

1. During USB playback, hold down  twice to enter USB menu.
2. When a USB menu option is displayed, press **⏮** **⏭** briefly until "REPEAT" or "RANDOM" option is displayed. Then rotate the function knob to select a play mode.
 - REPEAT ONE: Play the current track repeatedly.
 - REPEAT FLD: Play the current music folder repeatedly.
 - REPEAT ALL: Play all the audio files repeatedly.
 - RANDOM FLD: Play the current music folder randomly.
 - RANDOM ALL: Play all the audio files randomly.
 - RANDOM OFF: Cancel random play mode.



Search by file

You can browse USB files and select a file to play.

1. During USB playback, hold down  twice to enter USB menu.
2. When a USB menu option is displayed, press **⏮** **⏭** briefly until "USB BROWSE" option is displayed.
3. Press the function knob to confirm the selection. The file being played is displayed.
4. Rotate the function knob to select a file. Press  to go to the folder level.
5. To play the selected file, press the function knob.





Sound Settings

This section helps you change the sound settings of this unit.

1. When powered on, press  to enter sound setting settings.
2. Press **⏮** **⏭** repeatedly to select a setting option (shown below). Then rotate the function knob to adjust values or settings. Press  to exit the settings and the new settings will be saved.
 - **EQ**: Select a preset sound mode (a preset equalizer setting): FLAT, ROCK, POP, DANCE, JAZZ, CLASSIC,
 - **BASS**: Change output level for bass sound.
 - **MIDDLE**: Change output level for midrange.
 - **TREBLE**: Change output level for treble sound.
 - **BAL**: Adjust left-and-right speaker volume balance.
 - **FADER**: Adjust front-and-rear speaker volume balance.

System Settings

This section helps you change the system settings of this unit.

1. When powered on, press and hold  to enter system settings.
2. Press   repeatedly to select a setting option (shown below). Then rotate the function knob to adjust values or settings. Press  to exit the settings and the new settings will be saved.
 - **CLOCK 00:00**: Set hours and minutes.
 - **CLOCK 12H/24H**: Set 12 or 24 hour format.
 - **CLOCK AM/PM**: Set AM or PM time.
 - **BEEP ON/OFF**: Enable or disable key-press tone (sound made when pressing a button).
 - **BT DISCONNECT/CONNECT**: Disconnect or re-connect Bluetooth connection.
 - **MCU 23XXXXXX**: Display the firmware version of this unit ("X" stands for a number).
 - **SYSTEM RESET**: Restore the factory settings and all the manual presets will be removed. To trigger system reset, press the function knob.

Audio Input

This unit can play audio from a mobile phone or MP3 player through 3.5 mm audio input.

1. Connect the 3.5 mm audio input (labeled **AUX-IN**) on the unit to the headphone jack on your mobile phone (or MP3 player), using the following cable.
 - For a mobile phone with a headphone jack, use a 3.5 mm audio cable (not included).
 - For a mobile phone with a USB-C port, use a USB-C to 3.5 mm audio cable (not included).
 - For an iPhone, use a lightning to 3.5 mm audio cable (not included).
2. Press **SOURCE** to select AUX input source. "AUX IN" is displayed.
3. Start music playback on your mobile phone. Audio will play through the unit.
 - For best sound performance, set the volume of the connected device to maximum.

Audio Output

You can output audio from the unit to an amplifier.

1. Using RCA audio cables (not included), connect the RCA audio outputs (white/red, labeled **Front Line Out L/R**) on the unit to the RCA audio inputs on an amplifier (not included).
2. Start music playback on this unit. Audio will be output to the connected amplifier.

Troubleshooting

If you have problems using this product, check the following points before you request service. If you still have a problem, contact our Customer Service for further assistance.

Problem	Solution
No power	This unit is powered through connection to your Harley-Davidson® factory wiring harness. Connect the factory harness to this unit for power supply.
	Check that the power/ignition/ground wire of your Harley-Davidson® harness are correctly connected.
	Check that the vehicle ignition power (ACC) is switched on.
No sound	Check that playback is not paused, or turn up the volume.
	Incorrect source input. Press SOURCE to select the correct source.
	Check that the connected speakers are not faulty.
Bluetooth not connected / Streaming not possible	Check that Bluetooth on your mobile device is enabled.
	Make sure your mobile device is located in Bluetooth range.
	This unit is connected with another Bluetooth device. Disconnect the current Bluetooth connection.
Poor audio quality from Bluetooth connection.	Move your mobile device closer to the unit, or remove obstacles or sources of interference that are affecting Bluetooth reception.
USB not playable	Files are not supported, or the USB device is not compatible with the unit. Change the media files or USB device.

Specifications

Audio

Max output power	72 W x 4 (@ 2 Ohms), 48W x 4 (@ 4 Ohms)
Amplifier class	A/B (2 Ohms stable)
Speaker impedance.....	$\geq 2 \Omega$
Frequency response.....	20 Hz - 20 kHz
3.5mm AUX input sensitivity	1000 mV
Pre-amp outputs	front left and right RCA sockets (2 V)

FM Radio

Frequency range	87.5 – 107.9 MHz (USA) 87.5 – 108 MHz (Europe)
Frequency step.....	200 kHz (USA) 50 kHz (Europe)

AM Radio

Frequency range	530 – 1710 kHz (USA) 522 – 1620 kHz (Europe)
Frequency step.....	10 kHz (USA) 9 kHz (Europe)

Bluetooth

Bluetooth version.....	5.1
Bluetooth profiles.....	A2DP, AVRCP
Bluetooth frequency.....	2402 - 2480 MHz
Transmission power.....	<4 dBm
Transmission distance	up to 33 ft /10 m (line of sight)

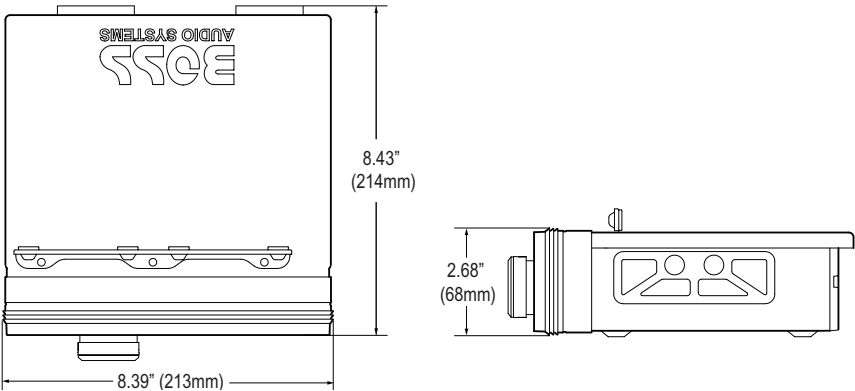
USB

Compatibility	Type A, USB 2.0 (High-Speed)
File system	FAT32
Charging current.....	5VDC, max 1.5A
Audio playback	MP3, WMA

General

Power supply	9.6 – 14.4VDC
Current consumption	max 7A
Zero current draw memory	Yes (retain memory if battery is disconnected)
Screen	3" (76mm), monochrome LCD display
Ingress protection	IPX6-rated front panel, water resistant, dustproof
UV protected front panel.....	yes
Chassis material	ZAM® coated corrosion-resistant steel
Conformal coated PCB.....	yes
Cable length	USB (24"/600mm), AUX-IN (6"/150mm), RCA output (11"/276mm), Radio antenna (5"/120mm), Amplifier remote (11"/276mm), BT antenna (13"/327mm)

Dimension Drawings



Specifications are subject to change without notice.

Warning:

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

This device complies with part 15 of the FCC Rules. 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.

FCC Statement:

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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The equipment complies with FCC Radiation exposure limit set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

ELITE

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