

KAH100

SOURCE UNIT, KLIPSCH BLUETOOTH MULTI-ZONE

Installation and Operation Manual



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INTRODUCTION

Thank You!

Thank you for choosing our product. We hope you will find the instructions in this owner's manual clear and easy to follow. If you take a few minutes to look through it, you'll learn how to use all the features of your new receiver for maximum enjoyment.

Features

- Bluetooth A2DP Streaming Audio
- Audible prompts alert
- Broadcast to compatible Klipsch devices via Bluetooth
- Receives audio from your TV
- LED illumination to the Encoder Knob border
- Independent volume control to 3 Zone low level audio Outputs

Precautions:

Use the Proper Power Supply

This product is designed to operate a 12-volt DC, negative ground battery system (the standard system in a North American vehicle).

Use Authorized Service Centers

Do not attempt to disassemble or adjust the Source Unit; contact a professional for assistance.

Avoid Moisture

To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.

Avoid Cleaning Products

The front of this unit should only be cleaned with a damp cloth. Do not use cleansers.

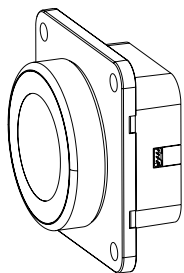
Use Recommended Accessories

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.

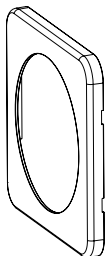
Box Content

- KAH100 Source Unit
- Trim Ring
- Four M3x20mm (3/32 x 0.75") Screws

Hardware Kit Contents



KAH100



Trim Ring



Mounting Screws

INSTALLATION

It's a good idea to read all the instructions before beginning the installation. We recommend having your Source Unit installed by a reputable RV dealership.

Caution:

To prevent a short circuit, be sure to turn off the ignition and remove the negative (-) battery cable prior to installation.

Tools and Supplies

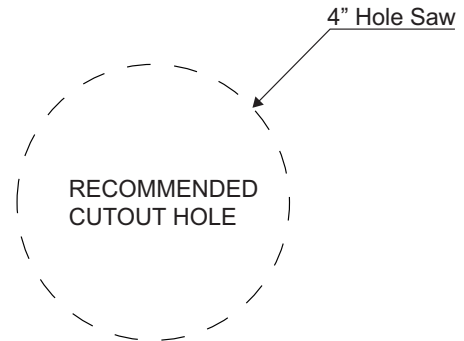
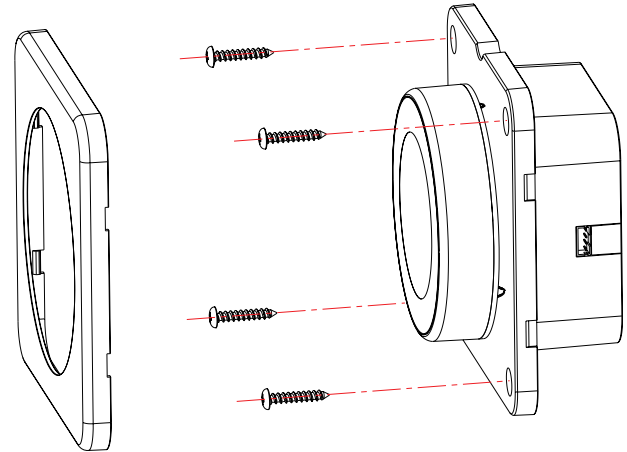
Necessary tools and supplies to install your KAH100:

1. Phillips screwdriver
2. Electrical tape
3. Digital Multimeter
4. Four M3x20mm (3/32 x 0.75") screws

Selecting the Mounting Location

Choose a location on a vertical panel that has space behind it to safely route cabling. Take care to avoid the following:

- Adjacent to other equipment that radiates heat.
- Poorly ventilated or dusty places.
- Moist or humid locations.

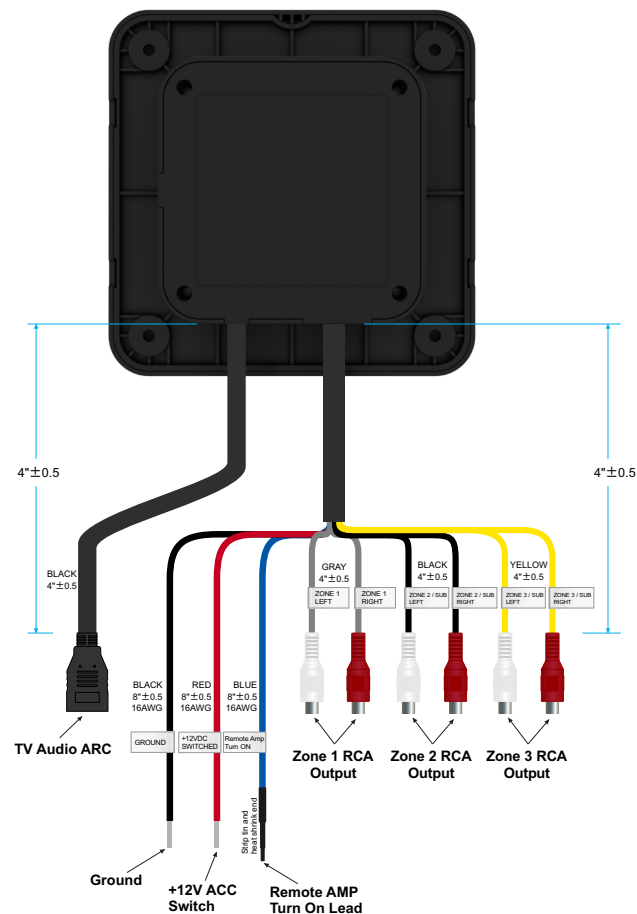


Mounting the Source Unit

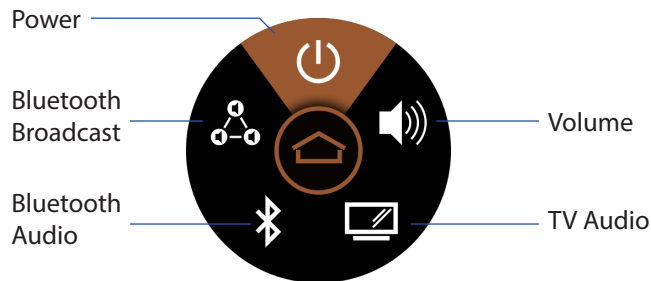
- Use the mounting hole diagram to measure and cut a mounting hole.
- Route power and speakers through the hole and connect.
- Check and ensure correct operation.
- Mounting the unit using four M3x20mm (3/32 x 0.75") screws.
- Attached trim ring.

WIRING DIAGRAM

Note: Do not connect the red wire to a constant power connection. The red wire should be connected to a vehicle connection with switched power such as IGN or ACC.



BASIC OPERATION



Power On/Off

Press the Encoder Knob to turn the unit on. Rotate the Encoder Knob to highlight the Power icon and press the Encoder Knob to turn the unit off.

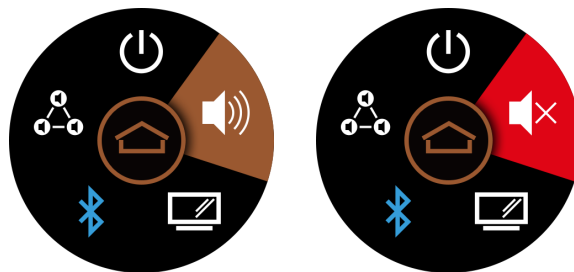
When unit is powered ON and is on the Home screen, Klipsch logo screen appears after 15-seconds, and then dims to lowest visible level 5-seconds.

Rotary or enter the knob wakes display back on Home screen at full brightness.

Muting

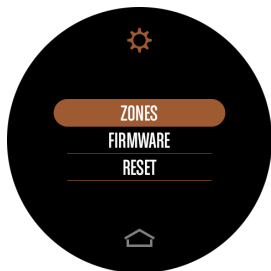
Rotate the Encoder Knob to highlight the Volume icon.

Press and hold the Encoder Knob to Mute all zones. Press again to Unmute all zones.



Setting Menu

Press & hold the knob for 5 seconds while POWER icon selection highlight to access to setting menu. Rotate the knob left or right to navigate the Zone, Firmware and Reset setting.



Zones

Press Encoder Knob while ZONES icon is highlighted in the setting menu to access the Zone Configuration menu.

Firmware

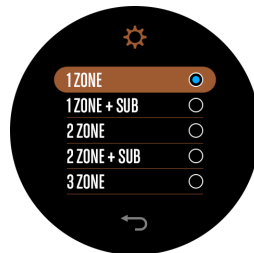
Press Encoder Knob while FIRMWARE is highlighted in the settings menu to display firmware version.

Reset

Press Encoder Knob while RESET is highlighted in the settings menu to return to factory default settings.

Rotate the Encoder Knob to highlight the HOME icon. Press the Encoder Knob to exit the settings menu.

ZONE Configuration



Rotate the Encoder Knob left or right to select the zone configuration:

- 1 ZONE
- 1 ZONE+SUB
- 2 ZONE
- 2 ZONE+SUB
- 3 ZONE

After the zone configuration is set, the Zone Volume control will change to correspond with the selected zone.

Rotating the Encoder Knob moves a copper selection highlight to the Return icon. Press the Encoder Knob to return to previous settings menu.

BLUETOOTH OPERATION

The KAH100 includes built-in Bluetooth technology that allows you to connect this Source Unit to Bluetooth devices for streaming audio playback. Rotate the Encoder Knob to highlight the Bluetooth icon.

Press the Encoder Knob to select Bluetooth mode. The KAH100 will give an audible "Bluetooth Mode" prompt.



If no device is paired and connected, the display will show "BLUETOOTH AUDIO NOT CONNECTED". Rotate the Encoder Knob to select "PAIR" and press to enter pairing mode.



The screen will show "BLUETOOTH AUDIO PAIRING...". Rotate knob and select CANCEL to exit pairing mode.



Select "KLIPSCH KAH100" from your device list on your mobile device to connect. Once the Bluetooth device successfully connects, the KAH100 will give an audible "Bluetooth connected" prompts and exit to home. Bluetooth icon becomes steady blue when connected to device.

TV AUDIO OPERATION

Connect TV audio output to KAH100 Source Unit. Selecting the TV Icon will allow the TV audio to play through the low level Zone Outputs.



BLUETOOTH BROADCAST OPERATION

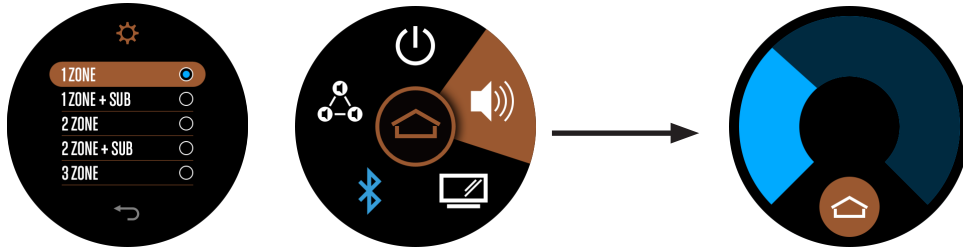
The KAH100 features broadcast mode to allow playback on up to 10+ Klipsch speakers at once. Just put the desired speakers into broadcast pairing mode while audio is playing and enjoy mono signals being sent to the added devices. Rotate the knob moves the copper selection highlight to Broadcast icon. Press the knob to activate or deactivate Broadcast Mode.



For a list of portable speakers supporting broadcast mode, please refer to the Klipsch website: <https://www.klipsch.com>

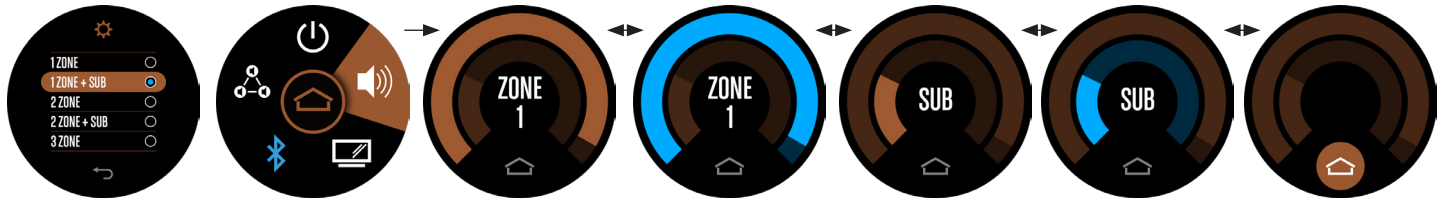
ZONES CONFIGURATIONS

Volume: 1Zone Configuration



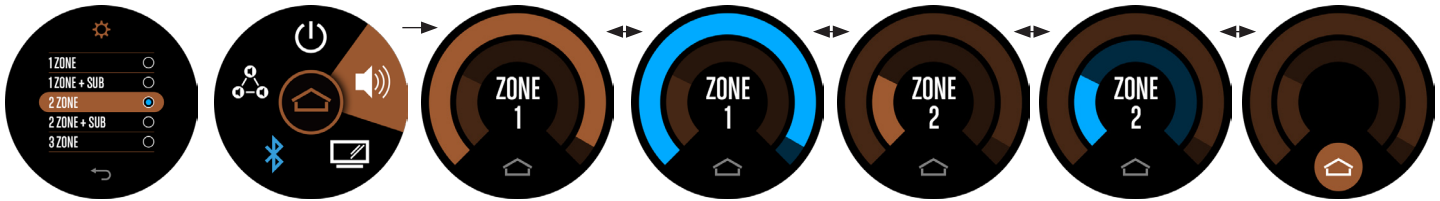
Rotate Left or Right to navigate to Zone Volume and Rotate the Encoder Knob Left or Right to adjust the volume. Press Home to exit to home.

Volume: 1Zone+Sub Configuration



Rotate the Encoder Knob Left or Right to select zone volume and press the Encoder Knob button. Turn the Encoder Knob left/right to navigate (copper) to desired zone. Press Home Press to engage selection (copper turns blue) and turn left/to exit right to adjust the volume. After adjustment is made the Home icon to disengage selection (blue goes back to copper). KAH100 screen automatically reverts back to Home menu after 10-seconds with no selections.

Volume: 2Zone Configuration



Rotate the Encoder Knob Left or Right to select zone volume and press the Encoder Knob button. Turn the Encoder Knob left/right to navigate (copper) to desired zone. Press Home Press to engage selection (copper turns blue) and turn left/to exit right to adjust the volume. After adjustment is made the Home icon to disengage selection (blue goes back to copper). KAH100 screen automatically reverts back to Home menu after 10-seconds with no selections.

Volume: 2Zone+Sub Configuration



Rotate the Encoder Knob Left or Right to select zone volume and press the Encoder Knob button. Turn the Encoder Knob left/right to navigate (copper) to desired zone. Press Home Press to engage selection (copper turns blue) and turn left/to exit right to adjust the volume. After adjustment is made the Home icon to disengage selection (blue goes back to copper). KAH100 screen automatically reverts back to Home menu after 10-seconds with no selections.

Volume: 3Zone Configuration



Rotate the Encoder Knob Left or Right to select zone volume and press the Encoder Knob button. Turn the Encoder Knob left/right to navigate (copper) to desired zone. Press Home Press to engage selection (copper turns blue) and turn left/to exit right to adjust the volume. After adjustment is made the Home icon to disengage selection (blue goes back to copper). KAH100 screen automatically reverts back to Home menu after 10-seconds with no selections.

CARE AND MAINTENANCE

- Keep the product away from dust and dirt, which can cause premature wear of parts.
- Handle the product gently and carefully.
 - Dropping it can damage circuit boards and cases, and can cause the product to work improperly.
- Wipe the product with a dampened cloth occasionally to keep it looking new.
 - Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the product.
- Use and store the product only in normal temperature environments.
 - High temperature can shorten the life of electronic devices, damage batteries and distort or melt plastic parts.

Ignition

The most common source of noise in reception is the ignition system. This is a result of the radio being placed close to the ignition system (engine). This type of noise can be easily detected because it will vary in intensity of pitch with the speed of the engine.

Usually, the ignition noise can be suppressed considerably by using a radio suppression type high voltage ignition wire and suppressor resistor in the ignition system. (Most vessels employ this wire and resistor but it may be necessary to check them for correct operation). Another method of suppression is the use of additional noise suppressors. These can be obtained from most CB/A radio or electronic supply shops.

FCC Notice

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 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.
- Consult the dealer or an experienced radio/TV technician for help.

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

This equipment complies with FCC radiation exposure limits pursuant to Part 15 of FCC Rules. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.

TROUBLESHOOTING

Problem	Solution
Source Unit will not turn ON.	Check +12V on accessory wire to Source Unit (RED wire).
	Check Ground connection (BLACK wire).
Source Unit turns ON, but no sound.	Check the mute controls are set correctly (See owner's manual).
	Try the reset button. Press and hold the power button on home screen and select reset.
Bluetooth device will not connect/pair.	Please ensure the Source Unit is in Bluetooth pairing mode, the display is showing "BLUETOOTH AUDIO PAIRING...".
	On your smart device, turn the Bluetooth off and on and try again.
Loss audio from TV audio.	Please ensure audio format on your TV is set to "PCM".
	Try the reset button. Press and hold the power button on home screen and select reset.

SPECIFICATIONS

Audio Output

Zone 1 ~ Zone 3 RCA Outputs.....	2Vrms
Frequency Response	20 Hz ~ 20 kHz
General Frequency Band(s) (For Bluetooth)	2.4~2.4835 GHz
Maximum radio frequency power transmitted (for Bluetooth).....	10dBm
Power Supply Requirements.....	DC 12 Volts
Negative Ground Operating Voltage	10-16 VDC
Idle/Standby Current.....	< 50mA
Overall Dimensions	4.5" (W) x 2.39" (D) x 4.5" (H)
Mounting Dimensions.....	3.11" (W) x 1.24" (D) x 3.11" (H)
Weight	0.639lb

Specifications are subject to change without prior notice.



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