REISS AUDIO



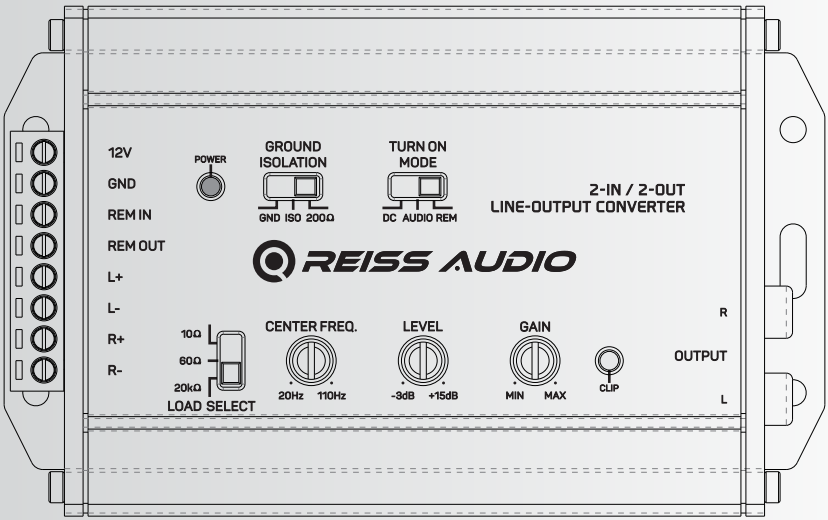
USER's MANUAL

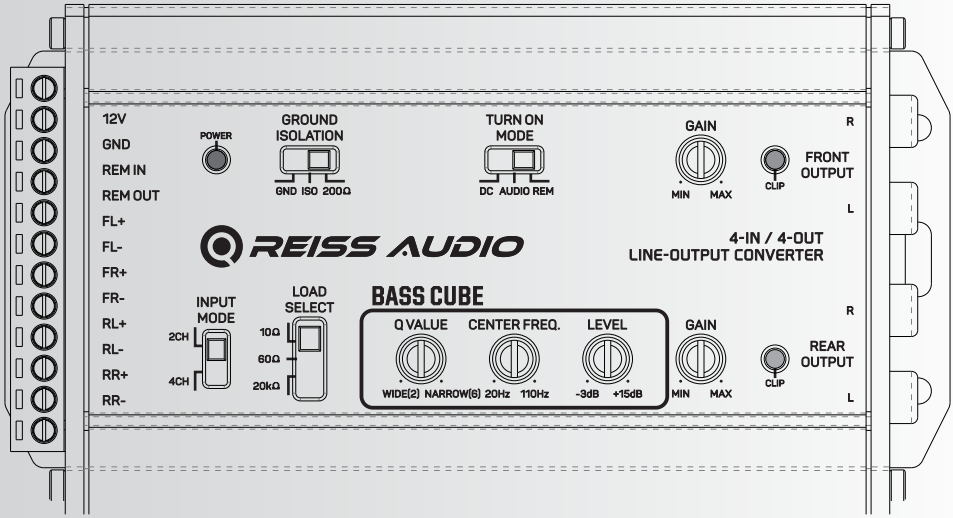
RS-HTL2
2-IN / 2-OUT ACTIVE LINE-OUTPUT CONVERTER
RS-HTL9
4-IN / 4-OUT ACTIVE LINE-OUTPUT CONVERTER

INTRODUCTION

Thanks for purchasing REISS AUDIO premium RS-HTL series line-output converter.
New cars serve more than a vehicle, but an entertainment center.
It's so common that many new head units come with integrated amplifiers, around 30~45 watts each channel, which powers the OEM speaker well. The pre-installed, or OEM music system can be ok for those who are not picky, but far away from trapping the drivers and passengers to fall in love with it.
But a sweet OEM audio system can burn a hole in your wallet.
LOC, known as line-out converters will iron it out, with extremely low distortion. And REISS AUDIO is aware that new generation OEM integration requires more than a high-to-low level convertor, but a device that can trick OEM head units designed refuse to upgrade into work and help avoid picking environment noise into the system.

RS-HTL FEATURES OVERVIEW





TECH SPECIFICATIONS

The RS-HTL family share the performance specifications below, apart from that they have different No. of inputs and outputs.

ITEM	RS-HTL2	RS-HTL9
Speaker Input	2CH	4CH
Outputs	4CH	4CH
REM In	Yes	Yes
REM Out	Yes	Yes
Load Select	20-ohm / 60-ohm / 20K-ohm	
Ground Isolation	GND/ISO/200-ohm	
Gain	Yes,X1	Yes,X2
Clipping	Yes,X1	Yes,X2
Center Frequency	20Hz-110Hz	20Hz-110Hz
Bass Level	-3 ~ +15dB	-3 ~ +15dB
Turn On Mode	REM/DC/AUDIO	REM/DC/AUDIO
Input Mode	N/A	2CH/4CH
Remote	None	None
Dimensions(LxWxH)mm	132x82x24.5	152x82x24.5
Chassis Body	Aluminum	Aluminum

Operating Voltage	9 to 16V
Input Sensitivity	0.5 to 40V
Max 40V as Input	Must be 20K-ohm load
Output Voltage	Max. 9.5V @ 13.8V
Input Impedance	20-ohm / 60-ohm / 20K-ohm
Signal to Noise	>110dB @6.4V output
THD+N	<0.01%
Frequency Response	10-20kHz
Max Current Draw	110 mA
Output Impedance	< 120-ohm
Gain	-28 to 1 dB
Turn-On Trigger, DC	3 to 7V
Terminal Gauge	Quick Connect / 16# AWG

DRIVE INTO FEATURES

1) Speaker Inputs: connect to head unit or amplifier speaker outputs. It receives the signal that your amplifier can't handle.

2)Outputs: Connect to the amplifier inputs. The signal processed by the device is what just the amplifier wants.

3) REM In: Rem turn-on input. It works with the "REM" in the "Turn-on" mode.

4) REM Out: Connect to aftermarket audio equipment with "Rem In". Rem-out will always remain active when the NA-LOC is turned on (regardless of the turn-on method). Connect it to only 1 aftermarket amplifier.

5) Load Select: 20-ohm/60-ohm/20k-ohm Many OEM head units require a resistance load to output audio signals, so an LOC without that load won't work. 20-ohm or 60-ohm are compatible with most such systems. Select 20-ohm/60-ohm for those systems, and 20k-ohm for all the rest.

6) Ground Isolation: Try different switches when the "alternator whine "or "ground noise" creep into the audio path, as power ground and signal ground are not tied together. Turn off the converter when switching it.

GND: power supply has the same ground as the audio.
ISO: The power supply ground is separated from the audio.
200-ohm: There is 200-ohm load between the power ground and the audio ground.

7) Gain: It adjusts the output signal for every channel pair. 9.5V RMS.

8) Clip: The LEDs lights up then the output signal gets distorted.

9) LPF: It can be switched off or activated to filter signal above 250Hz. The 2 rear channels are mostly for subwoofers.

10) Bass Level : Adjusts bass from -3 ~ +15dB base on Center Frequency.

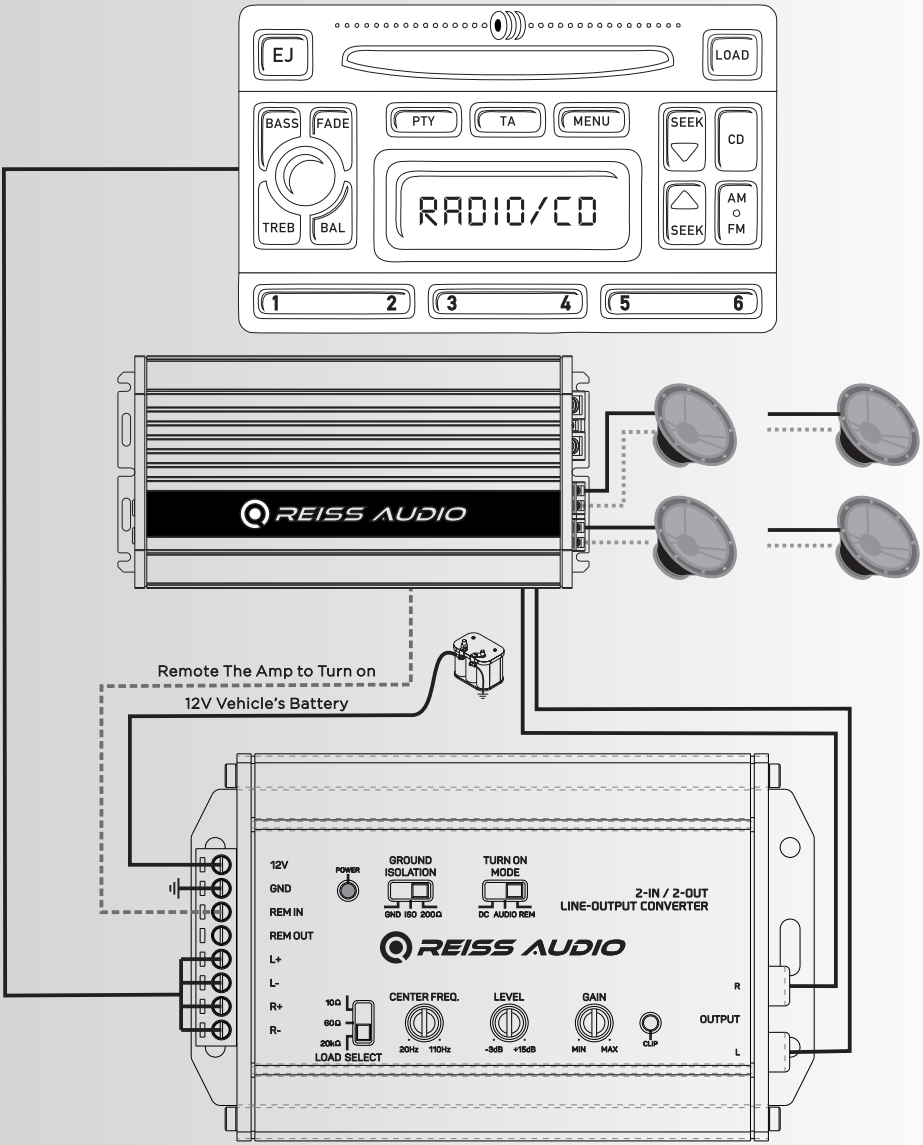
11) Turn-on Mode: It provides the drivers with the convenience to choose different ways to activate the device.

REM: It's a traditional way of triggering the RS-HTL to work but provide you timely control when it will be turned on or off via ignition.
DC: The RS-HTL will be activated when the head unit is on, but please note the signal from the head unit should be a DC offset one.
AUDIO: When VOX is selected, the RS-HTL will only turn on when the head unit plays something, either radio, music from CD, or Bluetooth streaming.

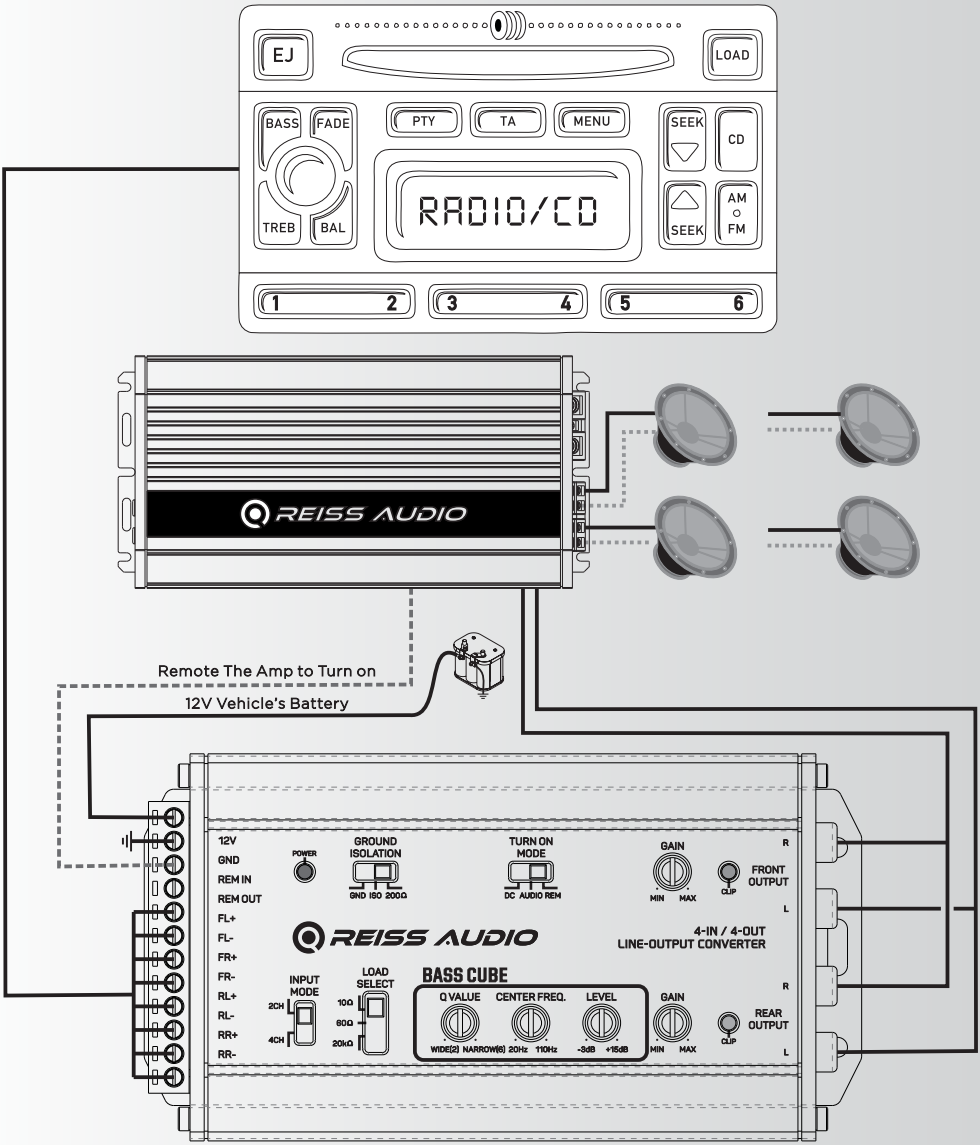
12) Input Mode: When you want to get 4 outputs with the 2 speaker level inputs, switch it to 2CH. The 4 outputs will be fed with the same source, but you can still set LPF and or Boost for it.

13) BASS CUBE: (Constant Usable Bass - enhancement) is a one-band equalizer with two parts: a processor module that can mount near the subwoofer amplifier and a wired remote control that can be mounted in the dash. The remote sets the center frequency (from 20 to 110 Hz) and boost (from 0 to 15 dB). Its knob switches the processor in and out.
Two switches on the processor module set infrasonic filtering and Q. The wide low-Q setting (Q = 2) is said to be useful for general sound-quality enhancement (especially with sealed enclosures) while the narrow high-Q setting (Q = 6) is said to be useful to obtain maximum output.
The Bass CUBE's third-order infrasonic filter is switchable from fixed (at 25 Hz) to adjustable. Ln adjustable mode (recommended for use with vented enclosures), the infrasonic cut-off frequency is one-third of an octave below the center frequency, changing when the center frequency is changed.

RS-HTL2 TYPICAL WIRING



RS-HTL9 TYPICAL WIRING



INSTALLATION CAUTIONS

1) Make all connections with the power off and connect the battery ground in the last step.

2) Run constant +12V power to the NA-LOC 12V connector. 16 AWG recommended.

3) Fully open the terminals before inserting any wire.

4) Ensure the device has a stable, dry, and well-ventilated base, and is away from moisture, heat and dirt.

5) Do not mount it directly on the vehicle's body, frame, or structure.

6) Never place the device next to the loudspeaker box as it could cause vibrations.

7) It is advisable to place RCA cables as far away from the vehicle's wiring, power cables, and output speaker wires as possible.

8) Please make wires as short as possible in order to reduce noise and loss of power.

9) Professional installation is required.

10) Run the remote level control to where within driver's access.

TROUBLE SHOOTING

POWER LED ON, NO OUTPUT

- Check source unit for output
- Check input gain control
- Check RCA cable quality and connection
- Check speaker and wiring for shorts
- Check for damaged Amplifier

NO SOUND ON ONE CHANNEL

- Swap left/right input to check source
  . . . If sound swaps, source or signal cable is bad
- Swap left/right speaker to check speakers
  . . . If sound does not swap, speaker or speaker wiring is bad
  . . . In any case, consult authorized dealer

WARRANTY

Should your RS-HTL require service Please consult with the dealer from which it was purchased, or contact REISS AUDIO Local Dealer.

Do not attempt to return your RS-HTL directly to us without first calling for a Return Authorization Number. Units received without an accompanying Return Authorization Number will be processed more slowly. Additionally, you must include a copy of your purchase receipt from an authorized REISS AUDIO dealer for consideration of in-warranty service; otherwise repair charges will apply. Units received without a receipt will be held for 30 days, allowing us time to contact you and obtain a copy of the receipt. After 30 days, all units will be returned.

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