



Harley Davidson A2B to 8-channel Analog pre-amp & Digital sound processor
NTV-KIT1021



WARNING: Do not connect any RCA cables to the ZEN-H interface or additional processors prior to properly grounding aftermarket amplifier(s)!

Overview

The NAV-TV ZEN-H processor seamlessly converts late model Harley-Davidson Road Glide and Street Glide, factory A2B systems to 8-channel analog RCA outputs. Adding aftermarket amplifiers to the Skyline Headunit has never been so simple. This kit integrates with the OEM A2B® bus to retain volume control, full fade, balance, sub control, EQ presets, voice calls.

Kit Contents

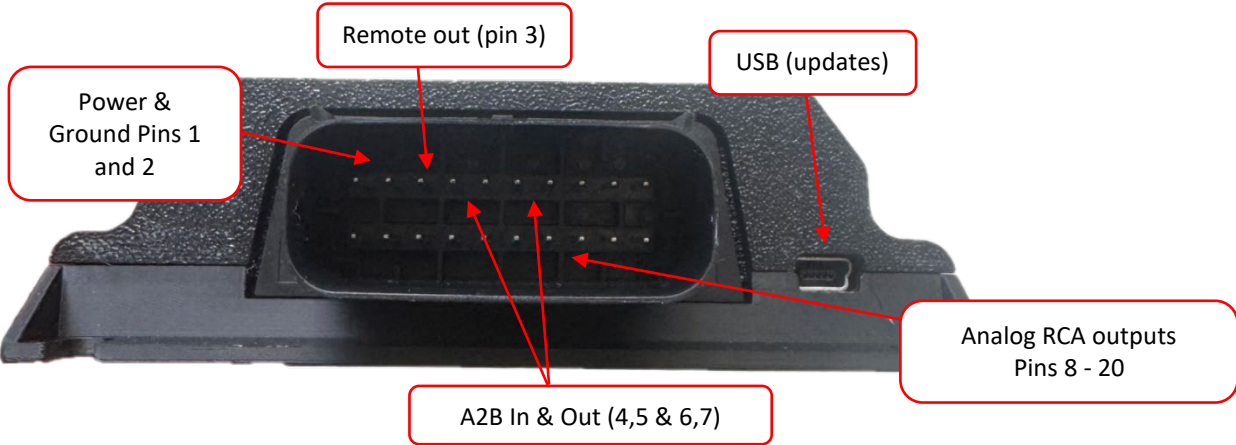


ZEN-H Interface



ZEN-H Harness

ZEN-H Overview



Channel	1	2	3	4	5	6	7	8
Pin	11+&13-	12+&13-	14+&16-	15+&16-	17+&8-	18+&8-	19+&9-	20+&10-

ZEN-H Installation

1. Remove fairing and remove factory amplifier.
2. Connect the plug-N-play harness to the factory loom and then connect it to the ZEN-H.
3. Connect the RCAs from the ZEN to the external amplifier.
4. Connect the remote turn on wire from the ZEN to the external amplifier.
5. The bare wire ends pinout the factory speaker wires as shown below.

Left Rear -	Left Rear +	Right Rear -	Right Rear +	Left Front -	Left Front +	Right Front -	Right Front +
Green & silver	Green	Purple & silver	Purple	White & Silver	White	Grey & Silver	Grey

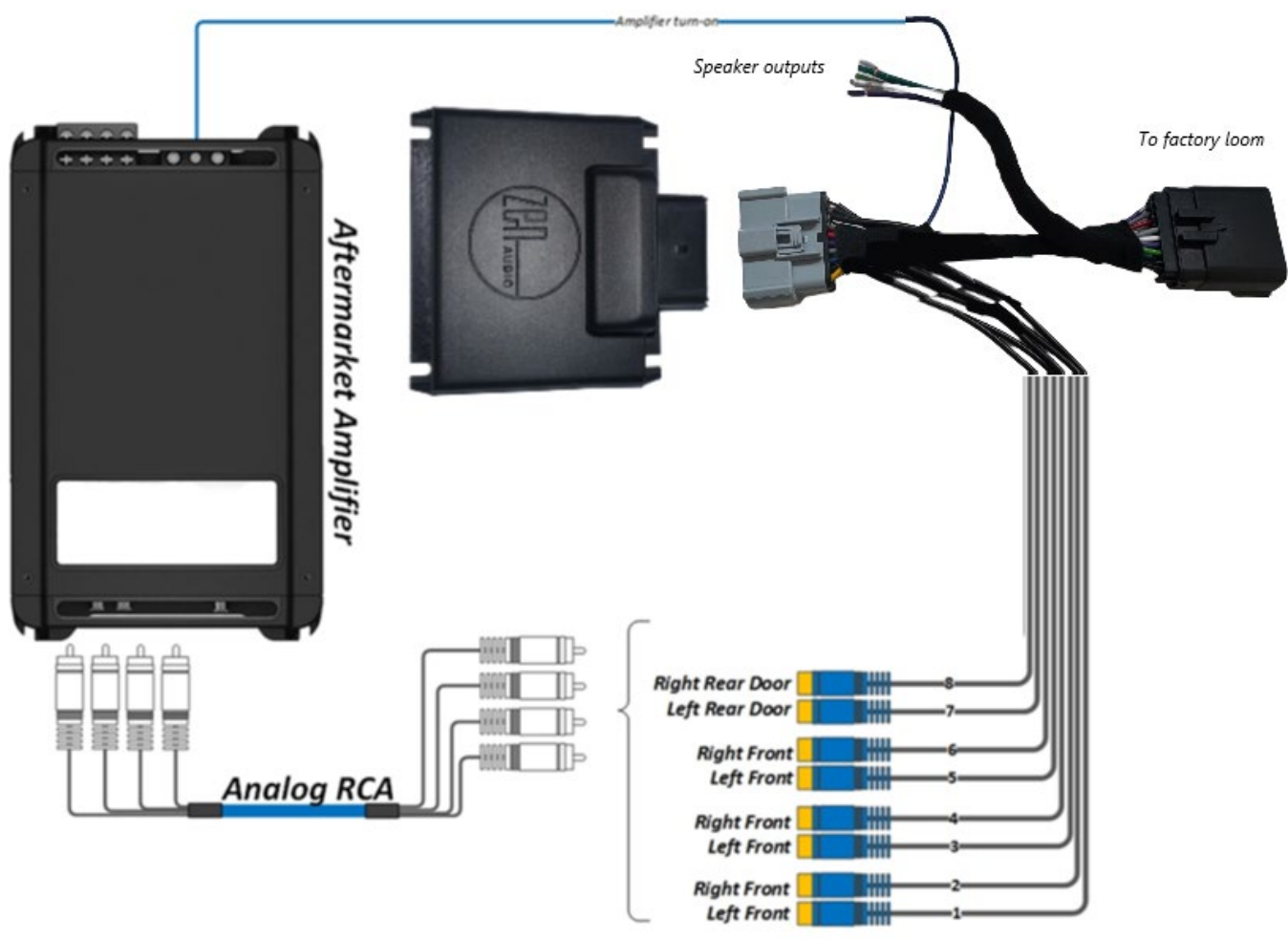
This remote wire must be used for aftermarket amplifier remote for proper functionality. **If installing more than one amplifier/DSP, a relay must be used for reliable turn-on (500mA max).*

6. There is no configuration required for the ZEN to output audio. However, after installing a sleep cycle of the bike is recommended.
7. The default mapping of the RCAs can be seen in the table below. These are fully remappable using the ZEN DSP if needed. Only remove the RCA caps of the channels needed. **WARNING: Do not connect RCA cables to this interface until all amplifiers/external processors are properly grounded. Failure to do this may cause damage to the interface and VOID the warranty!**

1	2	3	4	5	6	7	8
Left Front	Right Front	Left Front	Right Front	Left Rear	Right Rear	Left Rear	Right Rear

8. The gain of the system can be adjusted using ZEN DSP, it can be increased by up to 9 dB in cases of a low signal coming in from the head unit.

ZEN-H System Layout



After installing the ZEN-H you will gain extra audio controls not available previously. See below for what gets added.

Added controls & options

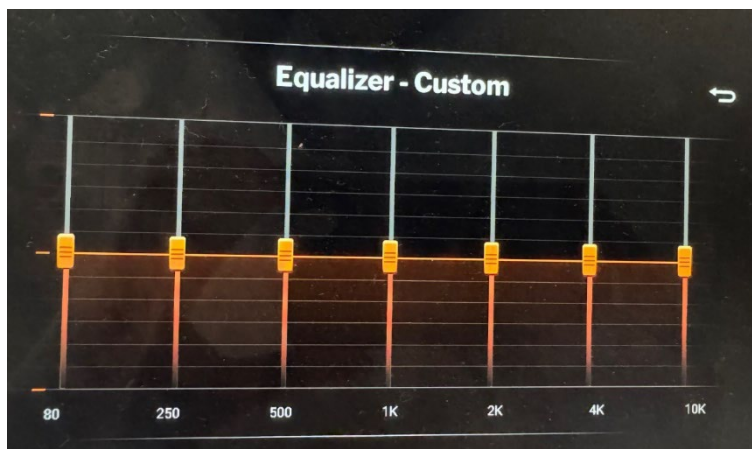
- Fader and the 7 band EQ are available but need to be enabled. They must be enabled by mapping rear speakers first.

To do this navigate to Sound settings, then Speaker setup then Speaker Config. Then select stage 2 or above in speaker selection. You won't hear any noise but press front left, front right, rear left, rear right in that order. Let the bike go fully to sleep and you should see the below.

- Fader



- 7 band EQ



ZEN-H Technical Specifications

<i>Hardware & Software</i>	
Current HW version:	--1r1--
Current SW version:	ZEN-H-1.2.8.ntv
Compatible SW (update) OS:	Windows, macOS
<i>INPUT</i>	
Digital Input	A2B
<i>OUTPUT</i>	
Digital Outputs:	None
Digital Outputs supported:	24bit/48kHz
Frequency Response (digital):	18Hz – 24kHz
Analog Outputs:	8 channels (RCA)
Output Voltage <i>Peak</i> :	13.8v
Output Voltage <i>RMS</i> :	5v
Analog Output Type:	Single-Ended
S/N Ratio (analog):	113dB
Frequency Response (analog):	18Hz – 24kHz
THD+N @ -1dBFS	-94dB
DAC	192kHz 24bit
DSP	32bit Fixed Point
<i>Power Supply</i>	
Current Consumption Stand-by	<1 mA
Current Consumption Operational	250 mA MAX
Operational Voltage	7V – 20V DC
Amp Turn-On Output	Automatic
Amp Turn-On Voltage	V-batt
Amp Turn-On Current Limitation	500mA
<i>Other</i>	
Dimensions:	4"x4"x1 1/2"
Weight:	5 oz

FAQ

- For installations with this ZEN processor, make certain that any added amplifier's *ground* resistance (reference vehicle battery ground) **does not exceed 1 ohm**.
- If you've installed a third-party DSP (receiving signal from the ZEN, before the amplifier) and you're having issues with *audio bleeding from one channel to another, echoing Bluetooth phone calls or any other signal processing issues*, **rule out the ZEN first by temporarily bypassing the third-party DSP and running signal directly from the ZEN to the amplifier(s) and verify the problem still exists before calling technical support.**

