



AUDI / Porsche / Bentley M.O.S.T. 150 to 12-channel Analog & Digital sound processor NTV-KIT860





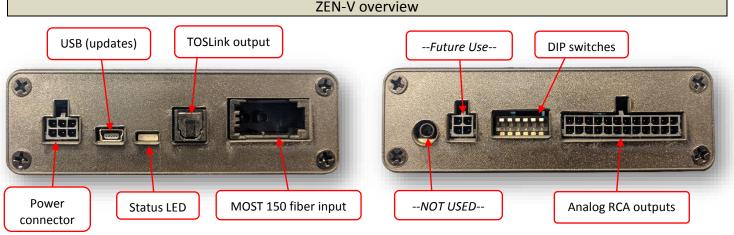


WARNING: Do not connect any RCA cables to the ZEN-V interface or additional processors prior to properly grounding aftermarket amplifier(s)!

Overview

The NAV-TV ZEN-V processor seamlessly converts '17+ AUDI, Porsche & Bentley factory MOST-150 audio bus to 12-channel analog RCA and TOSLink output. Adding aftermarket amplifiers to the OE MIB2 or PCM4 / 4.1 system has never been so simple and seamless. This kit integrates with the OEM M.O.S.T.® bus to retain volume control, full fade and balance (analog only), treble, mid-range, bass control & Bluetooth voice calls with no external speaker (true OEM integration). NOTE: OEM radio systems not equipped with an amplifier or fiber must be flashed with the VAG-COMM or NAV-TV's ZEN-V-PRG (NTV-KIT861, sold separately) prior to installation. Vehicles equipped with an OEM amplifier do not need to be flashed.





ZEN-V Compatibility (MIB2 or PCM4/4.1 radio only)

Year(s)	Make	Model
2015+	AUDI	Any model with confirmed MIB2 radio (A3, TT, etc.)
2017+	AUDI	A3, A4, A5, A6, A7, A8, Q5, Q7, S3, S4, S5, S6, S7, S8, SQ5, TT
2017+	Porsche	911, Cayenne, Cayman, Macan, Panamera
2017+	Bentley	Bentayga

ZEN-V Installation

1. If this vehicle has a factory amplifier, it must be removed and the ZEN-V can be installed into its place. If this vehicle is not amplified from factory, install the ZEN-V behind the radio.

2. Connect the following wires from the provided *power harness*:

6	5	4				
3	2	1				

ZEN-V pin	Color	To vehicle:
1	Yellow	12v (+) (constant)
3	Violet	Reserved, NOT USED
4	Black	Ground (-)
6 Blue		12v (+) remote output*

^{*}This remote wire <u>must</u> 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).

3. Before connecting power to the ZEN-V, adjust dip-switch settings for the desired options:

	Time Alignment	Attenuation	TOSLink DownMix	Loudness	Vehicle Settings	
Position	DIP 1	DIP 2	DIP 3	DIP 4*	DIP 5	DIP 6
<i>UP</i> (off)	Front Row	Full Scale output (0 dB)	DownMix OFF	Loudness OFF	See Below	
DOWN (on)	Driver Focused	-12 dB output	DownMix ON	Loudness ON	Jee I	DETUVV

DIP 5	DIP 6
X	X

AUDI

DIP 5	DIP 6
	Х
Х	

Porsche

DIP 5	DIP 6
X	
	Х

Bentley Bentayga

DIP 5	DIP 6			
X	X			

FUTURE USE



4. If using analog RCAs for signal to the amplifier, connect according to the reference chart below. 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!

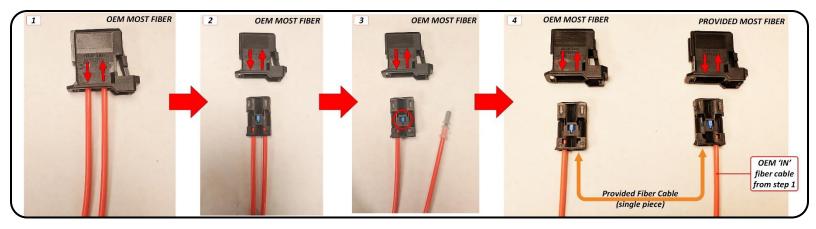
1	2	3	4	5	6	7	8	9	10	11	12
Left	Right	Left	Right	Left	Right	Left Rear	Right Rear	Left Rear	Right Rear	Center	Sub
Front	Front	Front	Front	Front	Front	Door	Door	Center	Center		

- 5. If using TOSLink for signal to the amplifier, connect the cable to the TOSLink port shown on page 2. *NOTE: both Analog and Digital output sound simultaneously, regardless of which type is used.*
- 6. Connect the provided *MOST Fiber Cable* from the (previously removed) amplifier, or from the radio's fiber port to the MOST port on the ZEN-V.

ZEN-V General Installation Notes

- This interface can be installed in vehicles with or without an amplifier & with or without MOST fiber optic presently installed.
 - Vehicles with fiber amplifier: the amplifier must be removed. Connect the OEM fiber previously connected to the amp, directly into the ZEN-V.
 - 2. <u>Vehicles without OEM amplifier or MOST fiber</u>: Use the supplied fiber optic extension and connect from the fiber port behind the radio to the MOST fiber port on the ZEN-V. NOTE: If the vehicle does not possess an OEM amplifier, you must program the system for <u>with amplifier & fiber</u> for the ZEN-V to operate properly. Use a VAG-COM or NAV-TV's ZEN-V-PRG programmer (NTV-KIT861 sold separately).
 - 3. <u>Vehicles without amplifier but still equipped with fiber</u>: Disconnect the fiber from the radio, disassemble the fiber coupler and route the provided MOST extension into the factory MOST loop like shown below (to continue proper MOST data flow):

NOTE: If the vehicle does not possess an OEM amplifier, you must program the system for <u>with amplifier</u> for the ZEN-V to operate properly. Use a VAG-COM or NAV-TV's ZEN-V-PRG programmer (NTV-KIT861 sold separately).



Tuning tips:

- 1. Before beginning tuning process (especially with external EQ/Processors), set Bass & Treble on the head unit for each source to flat (0).
- 2. Begin with amplifier/EQ gains all the way down.
- 3. With dynamic music playing, adjust the radio volume to <u>maximum</u>.
- 4. Adjust the amplifier/EQ gains to desired maximum level.

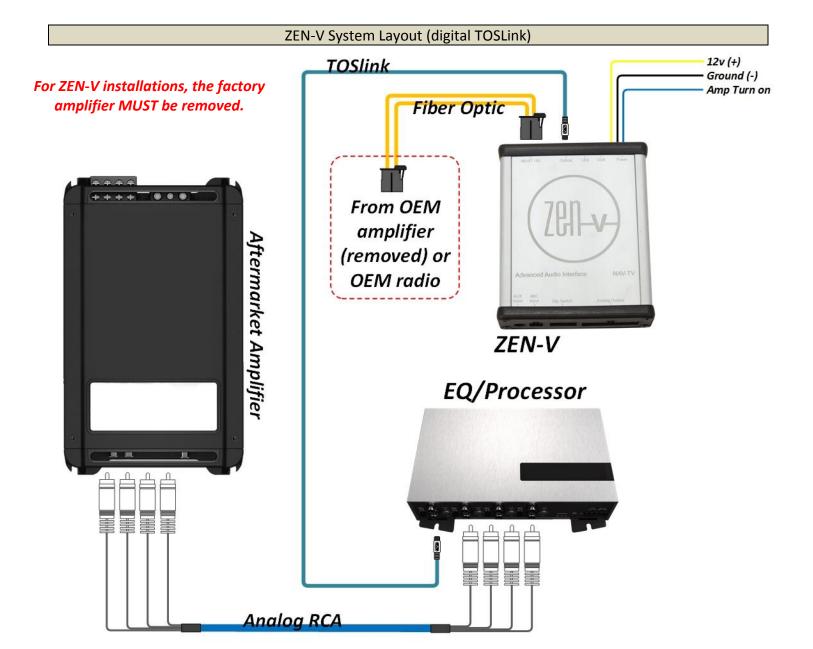
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Multi-Color LED Status Indication



LED Status	Indication
Solid Red	MOST Active
Violet	MOST traffic commands
Blinking Red	Peaking (maximum digital signal level achieved)
Blinking Blue	PC Link with app (future use)

For ZEN-V installations, the factory amplifier MUST be removed. Fiber Optic From OEM amplifier (removed) or OEM radio Analog RCA Fiber Optic Analog RCA



ZEN-V Technical Specifications

Hardware & Software						
Current HW version:	1r0					
Current SW version:	ZEN-V-1.4.1-3-29-18					
Compatible SW (update) OS:	Windows 7 (64 bit), 8, 10					
INPUT						
Digital Input	MOST 150 Fiber Optic					
	OUTPUT					
Digital Outputs:	TOSLink					
Digital Outputs supported:	24bit/48kHz					
Frequency Response (digital):	18Hz – 24kHz					
Analog Outputs:	12 channels (RCA)					
Output Voltage <i>Peak:</i>	6v					
Output Voltage RMS:	2.1v					
Analog Output Type:	Single-Ended					
S/N Ratio (analog):	123dB					
Frequency Response (analog):	18Hz – 24kHz					
THD+N @ -1dBFS	-94dB					
DAC	48kHz 32bit					
DSP	128bit Floating Point					
Delay (Time Alignment)	Selectable					
	Power Supply					
Current Consumption Stand-by	<1 mA					
Current Consumption Operational	350 mA MAX					
Operational Voltage	7V – 20V DC					
Amp Turn-On Output	Automatic					
Amp Turn-On Voltage	V-batt					
Amp Turn-On Current Limitation	500mA					
	Other					
Dimensions:	4"x5"x1 3/8"					
Weight:	10 oz					
Country of Origin:	USA					

NAV-TV INTERFACING THE FUTURE



