

**Description**

The bhi **ATT2** high level to low level audio converter is used to convert high level audio signals to low level audio. The **ATT2** attenuator pad was designed for use with amateur radio transceivers and receivers mainly for use with the bhi ParaPro EQ20 range of audio DSP units, but can also be used with other audio equipment provided the parameters of the audio equipment being connected are within the specification of the **ATT2**. The **ATT2** is a passive device which effectively enables a wider range of AF/volume adjustment to be used on the radio equipment before the overload LED on the bhi ParPro EQ20 unit comes on, making it less sensitive and easier to use. The **ATT2** accepts mono or stereo speaker level signals and will accept input levels up to 1 Watt (2.828 Volts p-p into an 8 Ohm Speaker) and will attenuate the audio down to line level at around 1 Volt (line level at 10k Ohm).

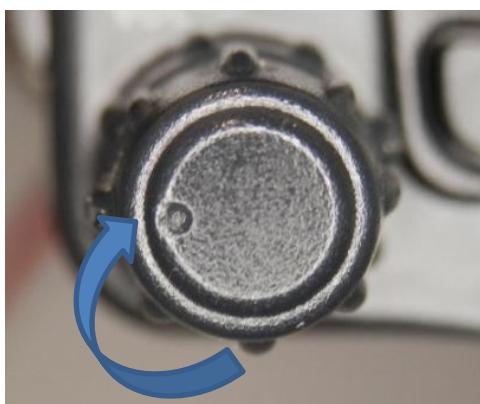


Illustration of source equipment volume range without ATT2 attenuator pad connected

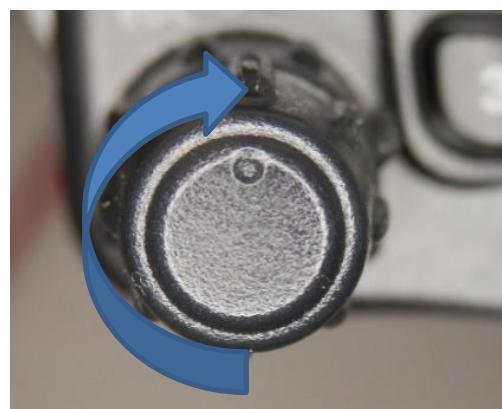


Illustration of source equipment volume range with ATT attenuator pad connected

**Note:** This unit is just an attenuator pad is not an audio signal isolating device. Ensure that the signal output source references the speaker to ground. If the radio equipment output source has a balanced speaker drive i.e. Class D type amplifier through to class H amplifier, then refer to bhi Ltd for further advice on using the ATT2 unit with this type of equipment to avoid causing potential damage to your radio equipment. In this instance you may require a bhi GroundBreaker audio isolating unit.

## **Operation**

The ATT2 unit simply fits between the extension speaker socket of your radio (high level audio source) and your bhi ParaPro EQ20/EQ20-DSP unit or audio equipment.

Connect from the extension speaker socket of your radio or audio source to the input socket on the ATT2 unit using a 3.5mm mono or stereo jack plug lead. Connect the output lead of the ATT2 unit to you bhi ParaPro EQ20/EQ20-DSP unit or audio equipment.

## **Specification**

Input Impedance: 11 Ohms  
Output Impedance: 10 k Ohm  
Maximum Input Power: 2 Watts  
Output level: Line level 1 Volt P-P into 10 k Ohm (Varies depending on the source drive impedance)  
Input Connection: 1 x stereo 3.5mm Jack socket (will accept a 3.5mm mono plug lead from a standard 4 Ohm or 8 Ohm extension speaker socket)  
Output Connection: 1 x integral stereo 3.5mm Jack plug lead 0.5m long

## **Alternative product for RFI and earth ground loop issues:**



**LLC1** Line Level Converter. Converts the speaker level audio output of your bhi ParaPro EQ20 audio DSP unit to an isolated RCA line-level audio signal enabling powered speakers or an amplifier/recording device to be connected to the output. The **LLC1** unit can also be used as an isolated high to low level audio converter on the input side of the EQ20 unit enabling a wider range of volume adjustment on the radio before the overload LED on the bhi ParPro EQ20 unit comes on, making it less sensitive and easier to use.



### **WEEE Statement**

Weee Statement for correct disposal of this product: (Applicable in the European Union and other European countries with separate collection systems). This marking shown on the product or its literature, indicates that it should not be disposed of with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.