

QSC OCTAL INPUT ACCESSORIES

MODEL T-1 INPUT TRANSFORMER

OWNER'S MANUAL

Designed by Brian R. Oppegaard

The T-1 input transformer is designed to plug into the octal socket on the rear panel of all QSC Series One and Series Three amplifiers. The T-1 is designed as a cost effective and convenient alternative to externally mounted input transformers. To avoid possible damage, no attempt should be made to use this accessory on other amps or to use non-QSC approved octal accessories in our amps.

For situations where ultimate audiophile performance is required, we recommend using the Jensen JE-11P-QN octal input transformer which is custom manufactured for QSC amplifiers by Jensen Transformers.

APPLICATION

The T-1 provides a passively balanced input for situations where long lines and strong interfering fields require the use of a transformer. Double Mu metal shields provide good protection against external electromagnetic fields, including those generated by the amplifier itself.

INSTALLATION IN SERIES ONE AMPLIFIERS.

1. Normal Single-Channel Installation.

Series One amplifiers have a single eight position DIP switch accessible through the rear panel. To send the input signal through the octal input transformer, turn off (down) switches 7 and 8 for Channel One and 1 and 2 for Channel Two. Use Channel One and Two Gain controls as usual for separate control of each channel.

2. Parallel Channels from a Single Transformer.

To send the output of one transformer to both channels of a stereo amp, install the transformer in Channel One and turn on (up) switches 3, 4, 7, and 8. All other switches should be off. Channel One and Two Gain controls will still adjust each channel separately.

3. Bridged Mono Operation.

See the Owner's Manual for full details on bridged mono applications. Install the transformer in Channel One. Turn off switches 7 and 8 and place the separate bridging switch in the "Bridge" position. All other switches should be off. Use only Channel One's Gain control to adjust level. Channel Two Gain has no effect and should be turned off.

INSTALLATION IN SERIES THREE AMPLIFIERS.

1. Normal Single-Channel Installation.

Series Three amplifiers have two eight position DIP switches, one for each channel. Switches 5,6,7, and 8 on both channels are for setting the XLR input polarity and are not affected by any of these procedures. To send the input signal through the octal input transformer, turn off (down) switches 1 and 2 on each channel using the transformer.

2. Bridged-Mono Operation.

Study the Series Three Owner's Manual for a complete discussion of bridged-mono operation. Install the octal transformer in Channel One. Set Channel One switches 3 on, 1,2,4 off. (do not change 5,6,7,8). Set Channel Two switches 1,2,3 on, 4 off. As usual with Series Three bridged operation, the Gain controls must be set to identical matched levels.

3. Parallel-Channel Operation.

Parallel channel operation, as such, is not possible on Series Three amps. However, by using the bridged-mono set-up above, connecting the Channel One speaker normally (not bridged), and connecting the Channel Two speaker normally (not bridged) but reversed in polarity, the equivalent function is obtained. The Gain controls may be used as usual for individual channel adjustment.

SPECIFICATIONS

FREQUENCY RESPONSE: 20 Hz to 20KHz +/- 1 dB at +18 dBv

INPUT IMPEDANCE: 20K Ohms

RECOMMENDED SOURCE IMPEDANCE: Less than 600 Ohms

DISTORTION: Less than 0.1%
50 Hz to 20 KHz at 0 dBv

Less than 1%
20 Hz to 20K Hz at +4 dBv input

Less than 1%
35 Hz to 20K Hz at +18 dBv input

INSERTION LOSS: 1 dB
dBv=dB ref .775V

PRODUCT WARRANTY

QSC Audio Products guarantees the T-1 to be free from defective material and/or workmanship for a period of three years from date of sale, and will replace defective parts and repair malfunctioning products under this warranty when the defect occurs under normal installation and use- provided the unit is returned to our factory via prepaid transportation with proof of purchase (sales receipt). This warranty provides that examination of the returned product must disclose, in our judgement, a manufacturing defect. This warranty does not extend to any product which has been subject to misuse, neglect, accident, improper installation, or where the date code has been removed or defaced.

WARRANTY AND SERVICE REPAIR INSTRUCTIONS:

1. Pack the product safely making sure to include a copy of the sales receipt, your name, return address, and phone number. Mark the package- Attention Service Dept.
2. Ship the product prepaid to QSC Audio Products. We recommend UPS.
3. We will determine if the product is under warranty:
 - A. If it is we will repair and ship it back to you at no charge.
 - B. If it is not we will contact you and inform you of the charges. Upon your approval, we will repair the product and ship it back freight and service charges collect (COD).

INPUT SCHEMATIC TRANSFORMER T-1

