

OFFICIAL WARWICK AMP OWNER MANUAL

ENGLISH



QUADRUPLET

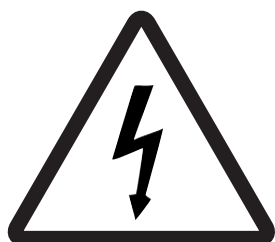
SAFETY HINTS

- Read these instructions
- Keep these instructions
- Heed all warnings
- Follow these instructions



Caution: To reduce the risk of electrical shock, do not remove the cover. Or expose this appliance to rain or moisture. No user serviceable parts inside; refer servicing to qualified personnel.

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure--voltage that may be sufficient to constitute risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Read the manual.



Use only with cart, stand, tripod, bracket or table specified by the manufacture, or cart/apparatus combination to avoid injury from tip-over.

Congratulations on the purchase of the new Warwick Pre Amplifier. Please read through these instructions before connecting and operating the device. If you keep to the guidelines set out in this manual, you will soon be able to appreciate the quality of this new Warwick amplifier. Please keep this instruction booklet handy in case you need to consult it again. Please send the PASSPORT to the address indicated therein.

RECOMMENDATIONS

The following recommendations are designed to ensure that the device always functions reliably:

- Never open the casing! To do so would expose you to the risk of an electric shock. Should repairs prove necessary, leave them to qualified service personnel.
- Avoid dust and high moisture levels, direct sunlight and extremely high or low temperature.
- Safeguard the device from excessive vibration. Always place the unit on a stable and horizontal surface.
- Avoid leaving the unit near radiators or other objects producing heat.
- Internal components should only be adjusted or cleaned by qualified service technicians. Ensure no object or liquid penetrates the device through its cooling vents.
- When replacing a fuse make sure you fit in one of identical value!

Have the device examined by a qualified service technician in the following cases:

- the mains lead or mains switch have been damaged,
- objects or liquids have penetrated the device,
- it has been exposed to excessive moisture,
- malfunctions or abnormal operating conditions have occurred,
- the device has been dropped or the casing damaged.

HINTS

- This apparatus shall not be exposed dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
- This apparatus should be connected to a MAINS socket outlet with a protective earthing connection.
- Mains plug or appliance connector shall be used as the disconnect device, so mains plug or appliance connector should always remain readily operable.
- If the apparatus shows any malfunction, immediately disconnect the main power cord from the mains socket.
- Do only operate effects pedals in-between the instrument and the amplifier, as these devices are not designed for the supplied load of an effects loop.
- Remove the plug whenever changing a fuse.
- Only ever replace a fuse with another of the same type. Never bridge defective fuses.
- Make sure the top and bottom of the device are properly ventilated and that the vents are not blocked.
- Do not subject the device to excessive vibration or hard jolts as these could damage the device.
- Don't undertake repairs yourself.
- Only allow the case to be opened by qualified personnel. (Remove the plug).
- Repairs should only be undertaken by qualified personnel.

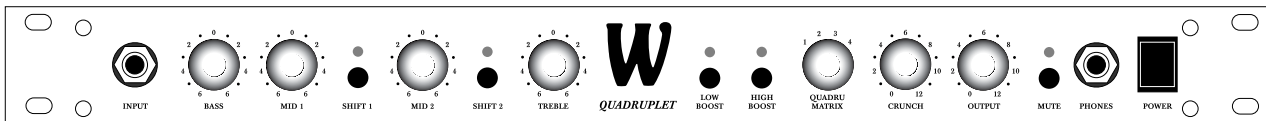
SHOULD YOU FIND YOURSELF ONE DAY WONDERING: "WHY IS THERE NO SOUND COMING OUT?"

please check:

- all stub cables,
- all connections of these cables

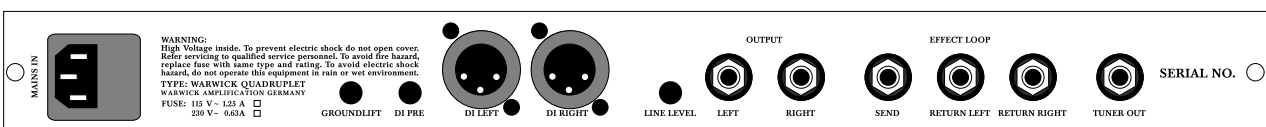
and proceed anew by following the guidelines of the chapter GETTING STARTED. Possibly the problem reveals to be an operational error.

FRONT PANEL CONTROLS



INPUT	Socket for the connection of a bass
BASS	Rotary control to Cut or Boost low frequencies
MID 1	Rotary control to Cut or Boost low-mid frequencies
SHIFT 1	Switch + LED to set the operating frequency of MID 1
MID 2	Rotary control to Cut or Boost high-mid frequencies
SHIFT 2	Switch + LED to set the operating frequency of MID 2
TREBLE	Rotary control to Cut or Boost high frequencies
LOW BOOST	Switch + LED to Boost low frequencies
HIGH BOOST	Switch + LED to Boost high frequencies
QUADRUMATRIX	Rotary switch to alter the basic character of the Quadruplet. Also alters the operating frequencies of the tone controls. (For frequency diagrams see below) Q1 and Q2 are pure preamp signals. With Q3 and Q4, the valve(tube)-based power amplifier (EL84 and output transformer) is included in the signal path. This gives you the sounds of a full-valve(tube) amplifier, even when you are using a transistorbased power amplifier.
CRUNCH	Amplifies the signal at the input to the preamp whilst simultaneously attenuating the signal at the output. This allows you to apply valve overdrive to compress or distort the signal from your bass
OUTPUT	Rotary control to determine the overall volume.
MUTE	Switch + LED mutes all the outputs of the Quadruplet except the PHONES socket and simultaneously activates the TUNER OUT socket (Rear Panel). When the MUTE switch is depressed, the LED shines red. In an operation ready state, the LED shines green. In case of signal flow at the power section (Input or Effects Return), there might appear a popping noise when MUTE is pressed. To avoid this, mute your strings or have effects like delays muted when pressing the MUTE button.
PHONES	Headphone socket (min 200Ω).
POWER	On/Off switch for the Mains Power.

REAR PANEL



MAINS IN AC	Terminal with integrated fuse compartment for connection to the mains power supply
GROUND LIFT	Switch to separate the grounding conductor from the audio signal ground. When several devices are grounded to the same point and interconnected with shielded cables, a ground loop hum can result. If this happens, depress the GROUND LIFT switch to eliminate the hum.
DI PRE/POST	When this switch is depressed, the signal at the DI OUT socket is the pure bass signal (PRE). Otherwise it is the signal after the tone controls and any connected effects devices have done their work (POST)
DI OUT LEFT + RIGHT	Balanced outputs for the connection to a mixing desk (PA or Studio).
LINE LEVEL	When this switch is depressed, the output of the OUTPUT LEFT and RIGHT sockets is at Line Level (0dB). Otherwise it is at Instrument Level (+6dB)
OUTPUT LEFT + RIGHT	Outputs for connection to a power stage or amplifier (see above)
EFF. SEND & EFF. RETURN L + R	Sockets to implement the effects loop. Connect the input of the effects device to the SEND socket and its outputs to the RETURN L + R sockets
TUNER OUT	Socket for a tuning device. The pure bass signal is available at this socket when the Preamp is switched MUTE

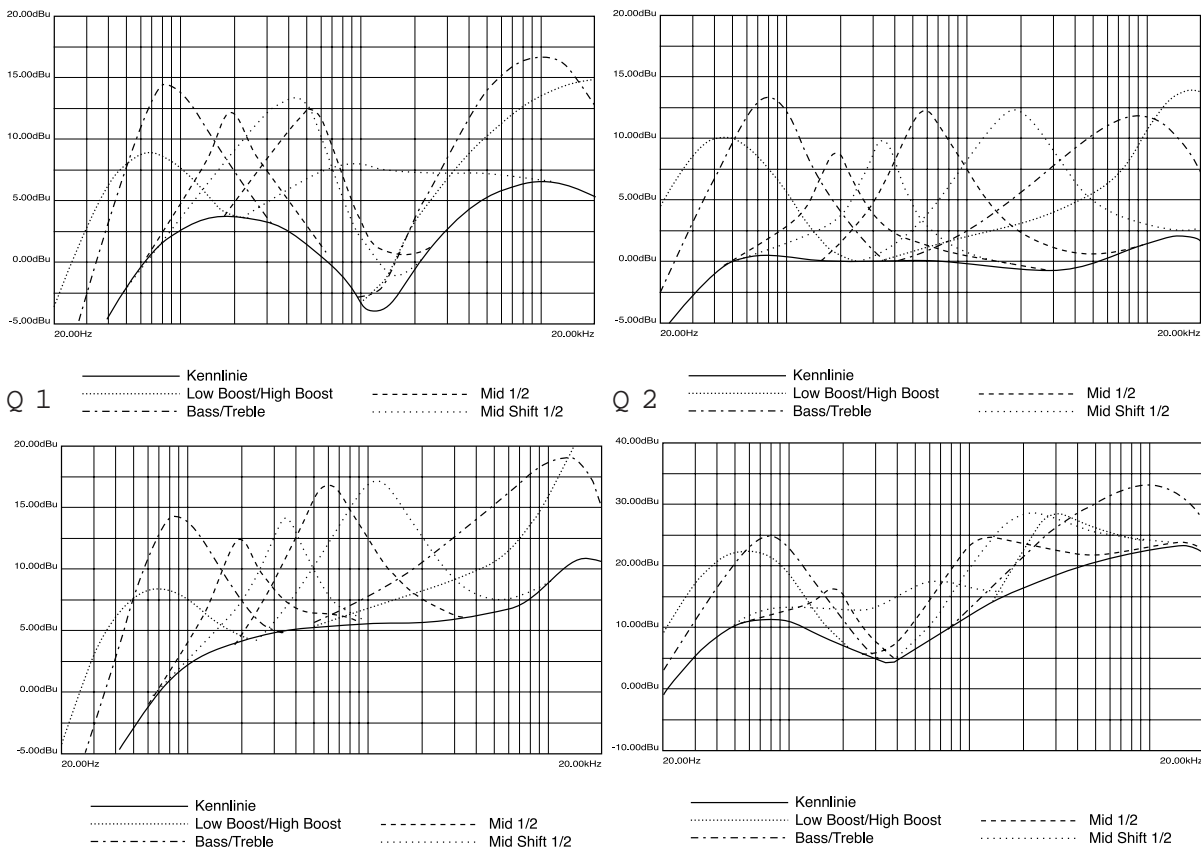
POWERING UP

1. Make sure that the device is plugged in to the mains and that any external (effects) devices are correctly connected and operation-ready.
2. Connect your bass to the QUADRUPLET'S INPUT using a shielded line cable.
3. Turn on the power using the POWER switch.
4. At the conclusion of the valve(tube) warm-up phase turn the MUTE switch off
5. Use the OUTPUT controls to set the desired volume level.
6. Adjust the controls to obtain the desired sound. To get to know the fundamental sounds of the QUADRUPLET, it is advisable to begin by setting all the tone controls to 12 o'clock, before using the QUADRUMATRIX switch to adjust each of the four fundamental sounds in turn.
7. Set the correct levels of the power or bass amplifier using the OUTPUT control and the Input controls of the power amplifier (or Gain control of the bass amp). It is advisable to begin by turning the OUTPUT control all the way to the right before adjusting the Input control(s) of the power amplifier/bass amp. Once you have done this, you can reduce the volume to the desired level by turning the OUTPUT control as far as necessary to the left again. This avoids the risk that you might later overload the power amplifier by turning the OUTPUT control too far to the right.

Please note that...

- the tolerances of the counter-rotating potentiometers of the CRUNCH control can result in trivial level variations at the DI OUT socket.
- when the unit is connected to a power amplifier, the LINE LEVEL switch on the rear panel should be depressed, but not when the unit is connected between a bass and a bass amplifier. When the unit is operating at Instrument level, avoid the use of over-long cables as these lead to signal loss (high ohm signal).

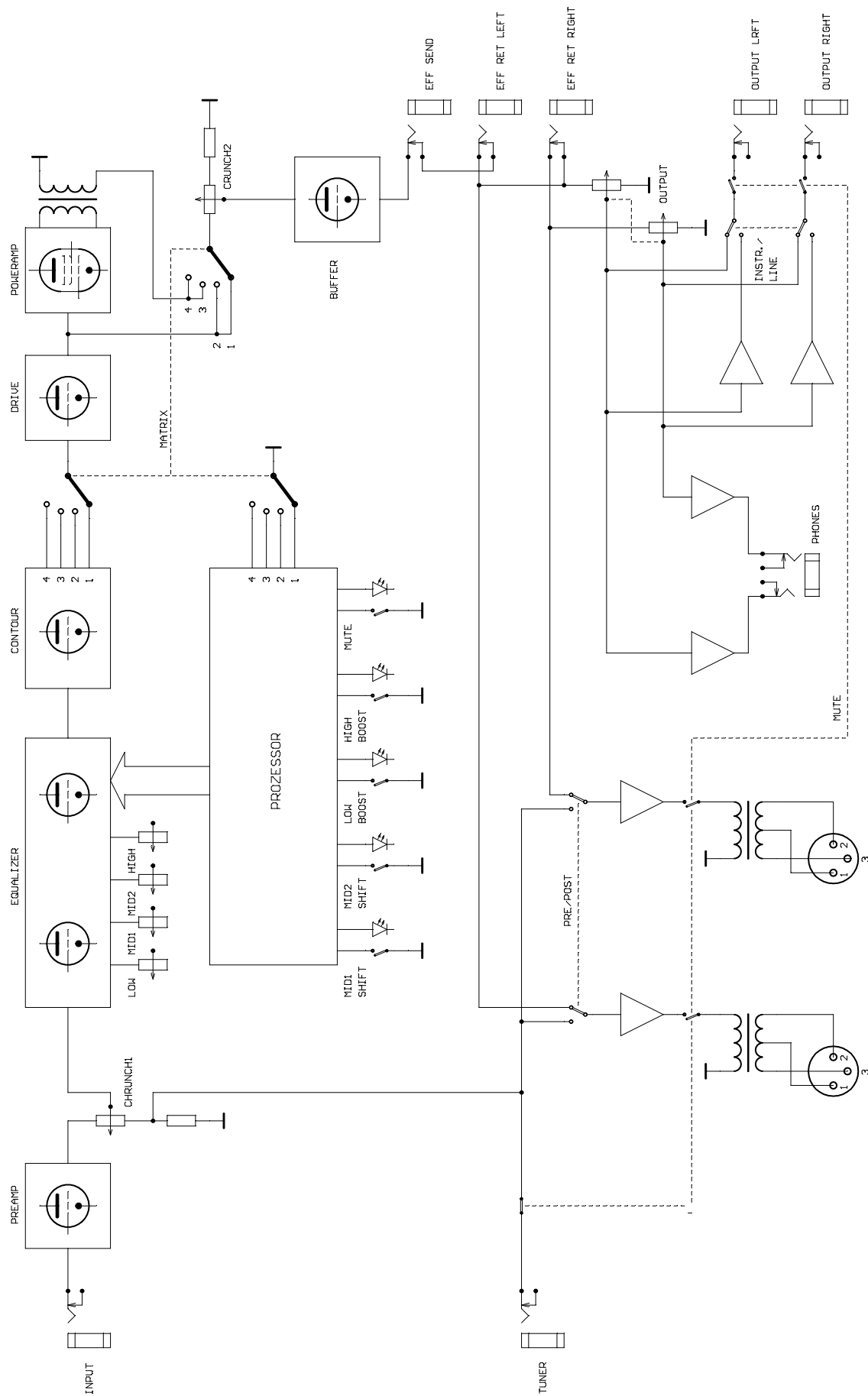
QUADRUMATRIX



TECHNICAL DATA

Preamp CH 1	all tubes
Poweramp	only on dummy load
CH 1 Equalizer	bass, mid 1 (1+shift), mid 2 (2+shift), treble, low boost and high boost switches
Headphone	min. 200 Ohms
Direct Out	0 dB
Effect Loops	send -10 dBu return - 10 dBu
Switches	DI pre/post, line / instrument level
Weight (kg)	4.2 kg
Dimensions (mm)	19" / 485 x 45 x 280

CIRCUIT DIAGRAM



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