U-RETRO 4 KNOB DELUXE

Active/Passive Preamp for Bass Guitars

The U-RETRO 01 4 KNOB DELUXE, based on the J-RETRO 01, is a universal highly flexible on-board preamp and EQ system. The standard pots have 10.0mm threaded bushes to allow rear mounting in the wood of a bass body. Flat wire connections to the pots allow for flexible layout.

Its high quality circuit uses one single knob and three dual concentric knob stacks. It includes a passive blend plus a 3 band equaliser with bass, variable frequency mid, treble and bright function. A passive tone circuit is also included which operates in both active and passive modes.

The passive tone pot has a push/pull function which switches between active and passive paths:

ACTIVE Signals from the pickups pass through the passive blend, passive tone, into the preamp input stage. Then through the equaliser and volume section within the active circuitry, and on through a low impedance output stage to the jack.

PASSIVE Signals from the pickups pass through the passive blend, passive tone and then on through the passive volume control section which feeds the jack.

- **VOLUME & BLEND** (Stack Knob)
- **VOLUME**

  The upper knob is the Volume.

  When used active, this knob has active circuitry after it so that the feed to your amplifier is a low impedance drive. A 0-12dB preset allows gain adjustment for the input stage of the preamp.
- **BLEND**

  The lower outer knob is the Blend, fully operational in both active and passive modes, sets the balance between the pickups. This is a very conventional control type, used in many different types of basses. Turn it fully clockwise for the neck pickup alone, and fully anti-clockwise for the bridge pickup. The midway position, which has an indent, gives an equal mix of both pickups.

- **BASS & TREBLE** (Stack Knob)
- **TREBLE (+12dB @ 3 kHz, -12dB @ 1kHz)**

  The upper knob is the Treble control with boost and cut. The central 'flat' position is indented. The cut settings work on lower frequencies compared to boost to give a deeper sound when the top is rolled off.
- **BRIGHT (+8dB @ 7kHz)**

  Pull the Treble knob for the Bright setting.
- **BASS (+15dB @ 50Hz)**

  The lower outer knob is the boost only Bass control. The frequency band of boost gets progressively lower as the boost is increased. An indent midway is included to aid the setting of this control.

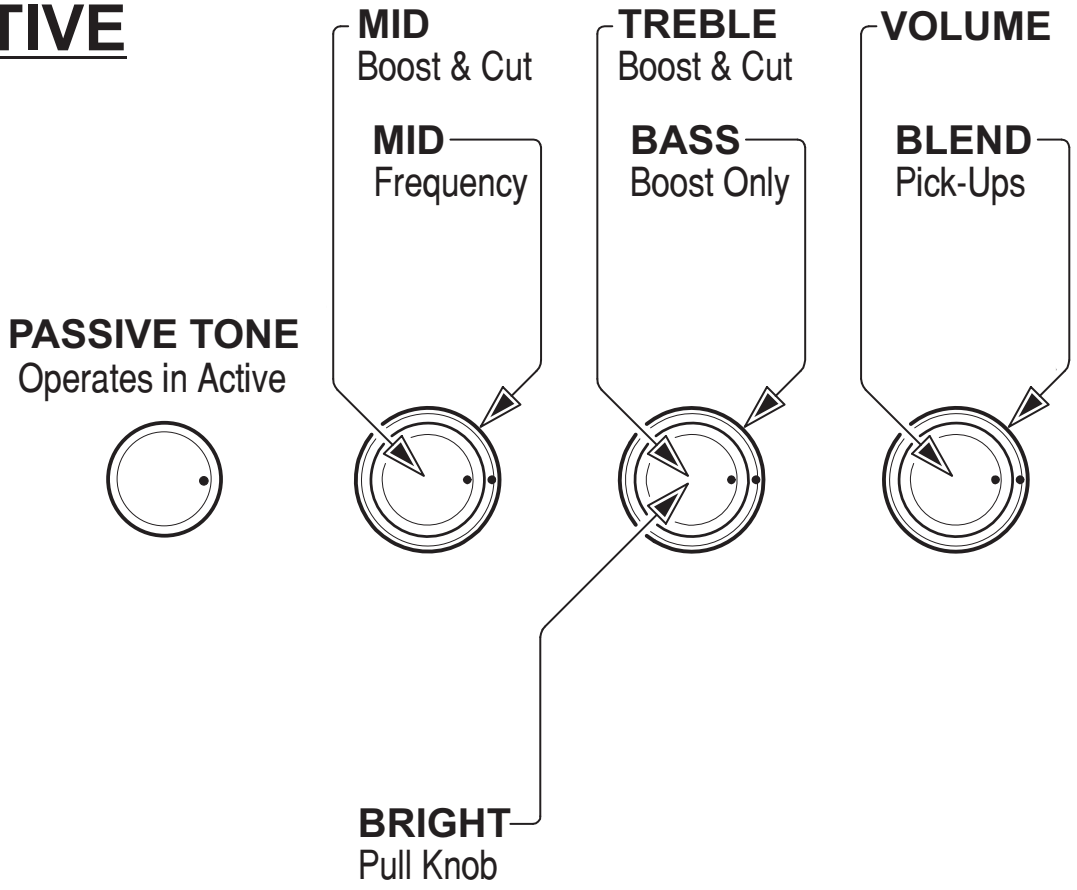
Continued over:

- **MID LEVEL & FREQUENCY** (Stack Knob)
- **BOOST/CUT (+/- 12dB)**
  The upper knob controls the amount of Mid boost or cut at frequencies according to the setting of the Frequency knob. The midway indent is the 'flat' position.
- **FREQUENCY (150Hz - 3kHz)**
  The lower outer knob is continuously variable and sets the Mid frequencies for boost or cut.

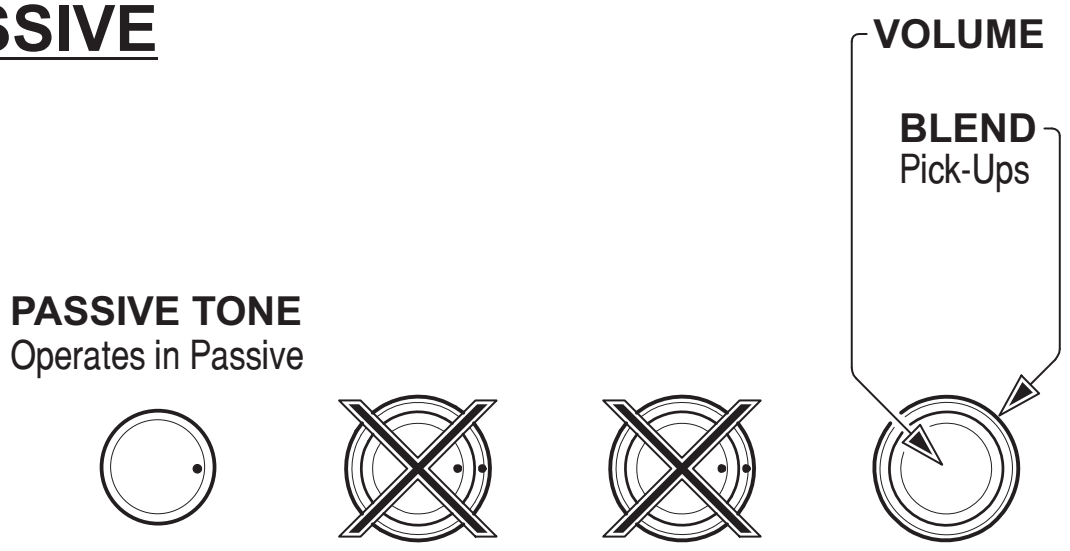
- **PASSIVE TONE & ACTIVE/PASSIVE SWITCH** (Single Knob)
- **PASSIVE TONE**
  Conventional passive tone which acts on the output signal from the Blend control.
- **ACTIVE/PASSIVE PUSH-PULL SWITCH**
  Set to Active when the knob is down, pull up for Passive mode.

- **POWER**
  The battery power is switched on automatically when a mono jack is plugged into the jack socket. This unit is supplied, set up for 9V operation, but can be used with 18V without any changes, apart from an additional battery clip.

ACTIVE



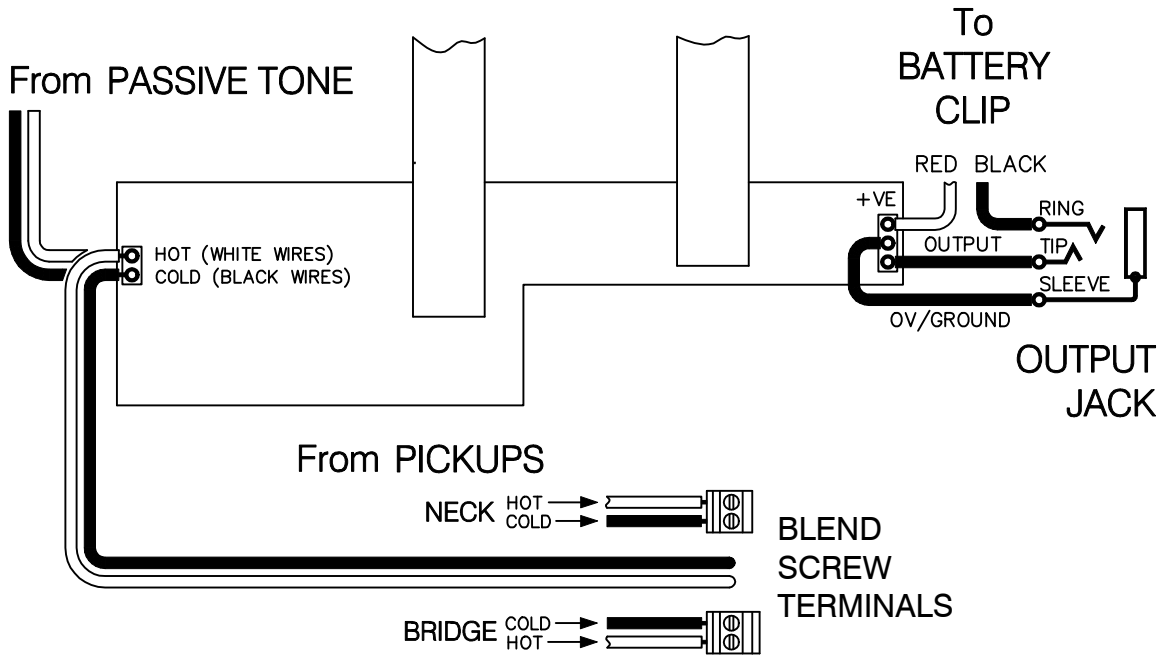
PASSIVE



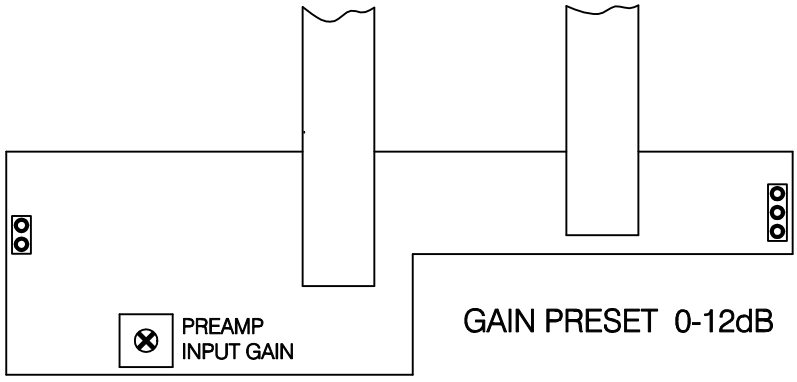
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Wiring Diagram

MAKE SURE ALL POT & SWITCH SHAFTS ARE GROUNDED VIA COPPER SCREENING FOIL. SOLDER A WIRE TO THE FOIL & SOLDER THE OTHER END TO 0V/GROUND PIN OF THE JACK.



Pickup Input Gain Adjustment



1 The pickup input gain preset is set to minimum as standard. This is normally a suitable setting for the majority of medium and high output pickups. (You should note that the distance from the pickups to the strings makes a big difference to the pickup outputs)

2 Lower output pickups may require some gain adjustment to optimise performance.

3 AS A GUIDE: With Volume set around 70% and EQ boost/cut controls set in midway indents there should be a good strong output drive.

GUARANTEE

Your East product is guaranteed to be free from defects in materials and workmanship for a period of one year from the date of original purchase.

If during the guarantee period your product becomes faulty due to defective materials or workmanship then the unit will be repaired or replaced without charge for parts or labour at the discretion of E-Pro according to the conditions below.

CONDITIONS

1 The original sales invoice or receipt indicating the date of purchase and sales outlet is presented together with the faulty unit.

2 The unit was installed competently consistent with the instructions supplied.

3 What is not covered:

a) Damage due to accident or improper handling, installation or operation.

b) Defects caused by the instrument or system to which to which the unit has been installed.

c) Damage resulting from repair of the unit carried out by non-authorised service personnel.

d) The costs of transport or shipping costs relating directly or indirectly to the guarantee of this product.

East UK Bumble Clumps Weston on the Green OX25 3TJ UK 44 (0) 1869 343112 John.East@which.net www.East-UK.com