

# TUBE WORKS

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## 913

### TUBE DRIVER RACK MOUNT USER MANUAL

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Congratulations on your purchase of the new TUBE DRIVER RACK Model #913. This rack is an up-dated and more cost-effective design from the originator of the TUBE DRIVER concept, B.K. Butler. We are confident this unit will be a welcome addition to your tube sound.

#### **TAKE TIME TO KNOW THE "RACK"**

The rack is a very versatile unit. Please take the necessary time to look over this manual and become familiar with the basic layout of controls as well as the unique features. Take time and let your ears guide you through the tonal possibilities. The EQ section has been carefully optimized for current and classic playing styles and has an extremely wide range of control. It is possible that you may be just a tweak away from your desired sound, so be patient and jot down the settings that you prefer most. Also be aware of the range of uses this product was designed for... Everything from use as an effects rack to that of a stand-alone pre-amp.

#### **APPLICATIONS OVERVIEW**

The TUBE DRIVER RACK is more versatile than one might expect at first glance. While the basic design is an "effects" rack, it has several other functions as well. For example, it can be used as a stand-alone pre-amp for basic power amps of any power. The authentic "Tube" sound is thus produced at a SPL (Sound Pressure Level) potentially exceeding any combo or stage amp made today! Another use finding great appeal is the use of the unit "direct to the board" in recording work. The tremendous gain potential within the unit, in addition to the exceptional output headroom, insure compatibility in a wide range of recording applications. There are, of course, the usual effects loop uses as well.

## FRONT PANEL CONTROLS (Left to Right)

**BOOST SWITCH:** Increases the amount of output up to 20 dBV, depending on the setting of the "Boost" control preset. The switch is overridden when a footswitch line is connected to the "Boost" jack on the rear panel. Very useful when you want to switch between a rhythm crunch and a lead gain level.

**BYPASS SWITCH:** Switches the unit in and out of the effects chain. The Red LED is lit when the unit is active in the chain. This switch is overridden when a footswitch line is connected to the "Bypass" jack on the rear panel.

**INPUT JACK:** Accepts normal inputs from instrument to line levels.

**DRIVE CONTROL:** Sets the amount of signal drive to the first stage of the tube. Increasing the setting of this control results in more sensitivity and sustain of the tube overdrive section. This is the most important control. You should experiment with setting it and your instrument's output level to a combined setting to give you the desired amount of crunch and sustain.

**BOOST CONTROL:** A preset output level boost, this control works in conjunction with the "Boost" front panel switch or "Boost" footswitch jack. This control adds as much as 20 dBV to any "Master" volume setting, giving you the ability to switch in a volume boost for leads whenever you want. This control is particularly useful if you happen to be using an all-tube amp or an amp with a built-in distortion sound you like. Try experimenting with your amp using the following steps:

- (a) With the TUBE DRIVER in bypass, set your amp at just the point of break-up with its internal distortion.
- (b) Switch in the TUBE DRIVER, without the "Boost" switched on, and adjust for a good overdrive sound.
- (c) Adjust the "Master" volume on the TUBE DRIVER to equal the level of the bypassed signal. This becomes your rhythm distortion.
- (d) Switch in the "Boost", and adjust the overall volume to your liking for your lead sound. Now your amp is being overdriven in addition to the TUBE DRIVER's internal tube distortion generator.

**MASTER CONTROL:** Sets the overall output level of the rack.

**HI CONTROL:** Adjusts high end. Set at 1500 Hz and higher.

**MID CONTROL:** Adjusts mid-range frequencies. Center is 500-800 Hz.

**LOW CONTROL:** Shelves off lower frequencies from 100 Hz down.

**POWER SWITCH:** Supplies main AC power to the unit. The Green LED is lit when the power is on.

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## REAR PANEL LAYOUT (Left to Right)

**9 VDC INPUT JACK:** Be sure to connect the unit ONLY to a 9-12 VDC power supply. This supply should be able to supply 200 mA continuously, as the heaters in the internal tube require constant current. Most available 9-volt battery eliminators designed for effects will work well with the TUBE DRIVER RACK. The proper polarity for the adaptor is: CENTER TIP NEGATIVE (Same as Boss or Arion polarity). NOTE: Although the unit is designed to run on a nominal 9 VDC, any voltage up to and including 12 VDC will be acceptable. The use of higher than 9 VDC will result in slightly more tube drive and output headroom. In any event, DO NOT EXCEED 12 VDC.

**OUTPUT JACK:** Wide-range output adjustable (with "Master" and "Boost" controls) from instrument and effects loop levels to output levels high enough to pre-amp power amps, and operate at nominal line levels (0 dBV) and higher.

**INPUT JACK:** Accepts inputs from instrument to line levels. At higher than instrument levels, "Drive" control will become seemingly more and more sensitive, with less range to 'full on' setting. This is normal.

**FT. SW. BOOST JACK:** Permits the use of a standard "on-off" footswitch to remotely switch the presetable "Boost" function. Front panel "Boost" switch is overridden with footswitch use.  
**FT. SW. BYPASS JACK:** Permits the use of a standard "on-off" footswitch to remotely switch the "Bypass" function. Front panel "Bypass" switch is overridden with footswitch use.

## WARNING!!!

The use and operation of this device constitutes an agreement of full release of any and all liability connected with such use. Only personnel familiar with high-power audio equipment should attempt to operate this device. In addition, by the use of this device, user agrees to hold Genz Benz Enclosures/Tube Works, its designers, sales agents and all other affiliates and related parties harmless in the event of any accident, injury, damage or loss resulting from such use. Manufacturer's sole responsibility is to provide a warranty on the specified performance of the product under normal conditions for a one-year period.

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## WARRANTY

Your TUBE WORKS product is warranted for a period of ONE year against defects in workmanship or materials in the electronic components. The speaker(s), reverb tank and cabinet (if applicable) are warranted for a period of ninety (90) days. This warranty applies only to the original registered owner provided he/she has returned a completely filled-out OWNER'S REGISTRATION CARD within fifteen (15) days of purchase. This warranty covers parts and labor only; shipping charges remain the sole responsibility of the owner. Damage due to misuse, modification or abuse is excluded from this warranty. If service is required, you must contact Genz Benz Enclosures/Tube Works for a **RETURN MERCHANDISE AUTHORIZATION NUMBER (RMA)** by calling 480-941-0705. Whenever possible please use original packaging material for all returns, this will insure that the units are not further damaged in transit.

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## TUBE WORKS

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