

PROFESSIONAL versus REGULAR Power Amplifier Models

There are three differences between Bryston's *Professional* series power amplifiers and our *Regular* models:

- 1) *PRO* models have a large "Bryston" logo on the front dress panel to make identification easy. *REG* models have a smaller logo in the upper left quadrant.
- 2) *PRO* models have individual gain (input level) controls for each channel. On 2B through 8B models these gain controls are mounted on the front. On 9B and 14B models they are mounted on the rear. Most front mounted gain controls (except the 2B-LP) do *not* have knobs, but instead use slotted end metal shafts slightly recessed behind the panel to prevent accidental adjustment. These controls can be adjusted with a small (3/32" wide) blade screw-driver. Most rear mounted gain controls, such as those found on the 9B and 14B, are equipped with knobs. Except on the 2B-LP, whose gain control functions like a conventional audio volume control, these *PRO* model gain controls provide a restricted attenuation range of approximately -14dB. However, any *PRO* amp can be ordered with a full range gain control at no additional cost.
- 3) Some *PRO* models provide different inherent gain and/or different gain options from *REG* models. This is due to the fact that a balanced input inherently provides 6dB of gain if each of the two *halves* of the input (or if each input phase) is operating at unity gain. This 6dB of gain is sometimes desired by professional installers, but can be an annoyance in home installations where every successive balanced in/out stage in every piece of equipment in the audio chain adds 6dB of gain. This can quickly add up to an excessive level. In general, *REG* models do not usually add 6dB of gain at the balanced inputs, whereas *PRO* models do.

All Bryston power amplifiers are now made with an overall *unbalanced* gain of 28.3 (or approximately 29dB) and are thus compatible with THX[®] levels.

Always check the Operating Manual first!

PRO versions of the following models are available:
2B-LP, 3Bst, 4Bst, 5Bst, 7Bst, 8Bst, 9Bst, 14Bst

PROFESSIONAL AMPLIFIERS ONLY

Input Level Controls:

Bryston Pro Series amplifiers feature input level controls, located on the front panel as 1/8" screwdriver-adjustable potentiometers, (see illustrations below). Through either the balanced XLR input or the unbalanced RCA input, when the control is in the full-up, (clockwise), position the amplifier gain is 1 Volt input equals 28.3 Volts output, corresponding to 100 Watts @ 8 Ohms. In the full down, (counterclockwise), position the gain is attenuated by 13 dB. Under that condition 1 Volt input

equals 6.3 Volts output, corresponding to 5 Watts @ 8 Ohms.

The range of attenuation is limited to the above values to protect both the source and the input stages of the amplifier from the possibility of overload before the output of the amplifier reaches full power.

Please do not force the rotation of the potentiometer beyond the end-stop, as this may damage the control. Physical damage to the amplifiers may not be covered under warranty.

