

BRYSTON

Model 270

Single Channel 70V Output Power Amplifier

GENERAL DESCRIPTION

Bryston's 270 power amplifier is a "70 VOLT" monaural version of the 2B and consists of a single amplifier module - with a $\pm 42\text{v}$ power supply - which can deliver 65 watts into 8 ohms (120 watts into 4) via the **DIRECT** output or into 60 watts via the **70 VOLT** output transformer.

CLIPPING INDICATORS

The 270 amplifier uses a 2 colour LED with green indicating *power on* and red indicating actual *overload or distortion*.. Once the indication contains a substantial red content it should be considered as a sign that the level is too high and may cause speaker damage if allowed to continue.

INPUT CONNECTORS

The 270-PRO is supplied with a combination 3 pin balanced XLR and 3 conductor ¼" Phone jack. On the XLR jack, pin 1 is ground, *pin 2 is **POSITIVE** & pin 3 is **NEGATIVE***. On the phone jack, TIP is positive, RING is negative & the sleeve is ground. Fully discrete active input circuitry is used; i.e. no transformers. The 270-REG is supplied with an unbalanced RCA/phono jack.

All input connectors are gold plated and should be used only with quality gold plated input cable connectors as a poorly plated connector will eventually corrode through the gold flash. Bryston makes cables with appropriately heavily plated, high quality connectors, available through your dealer.

OUTPUT CONNECTORS

The 270 is equipped with four binding post terminals (2 red, 2 black) which can accept either standard banana plugs or bare wire. One BLACK/RED pair is the **DIRECT** output and the remaining pair is the **70 VOLT** output (see rear panel for wiring instructions). Since the binding posts are gold-plated we recommend gold-plated banana plugs be used for the lowest distortion.

N.B. Do not attempt to remove the red or black connector nuts from the binding post connectors. They are not removable and attempting to force them off may break the connector or strip the threads.

OUTPUT CABLES

For some time there have been available on the market special speaker cables constructed for extra high current and low loss and distortion. These cables will cause no difficulty or instability with any Bryston amplifier. In fact, we recommend that low inductance cables be used for the smallest loss of signal between amplifier & speaker.

GROUNDING and the GROUND SWITCH

The left most switch on the rear panel is a GROUND LIFT switch. It is connected between the chassis ground (including the third prong on the power line cord) and the signal ground. This switch is normally left in the *connected* position . Occasionally a multi-amplifier rack installation, or an unusual grounding situation with a preamp using a three wire power line cord, will cause a ground loop between the signal ground and the chassis ground. This switch will allow the elimination of the resulting hum in such cases without resorting to a "cheater" plug by switching to the *separated* position . Note that this switch does not disconnect the chassis from the third prong on the power line cord which must be left intact for safety reasons.

WARRANTY

Bryston products are warranted to be free from manufacturing defects for a minimum of **twenty years** from date of original purchase, including parts, labour and return shipping to the first and all subsequent owners. Warranty coverage is automatic and commences with the date of the original dealer's bill of sale (which is the sole proof of purchase date).

In the event of a defect or malfunction Bryston will remedy the problem by repair or replacement, as we deem necessary, to restore the product to full performance. Warranty service may be obtained by returning the unit to any Bryston retail dealer. If it cannot be returned to a Bryston dealer, write or call:

BRYSTON SERVICE USA.:
**70 COVENTRY ST. SUITE #5
NEWPORT VERMONT
U.S.A. 05855**

**PHONE: 802-334-1201
FAX: 802-334-6658
E-MAIL: usaser@bryston.ca**

BRYSTON SERVICE OUTSIDE CANADA & the USA:
**CONTACT YOUR LOCAL DISTRIBUTOR
OR**

**CHECK OUR WEB SITE AT: www@bryston.ca
E-MAIL BRYSTON DIRECTLY: info@bryston.ca
FAX BRYSTON DIRECTLY: 705-742-0882
PHONE BRYSTON DIRECTLY: 705-742-5325**

BRYSTON LTD., 677 NEAL DRIVE, P.O. BOX 2170, PETERBOROUGH, ONTARIO CANADA K9J 7Y4

This warranty is void if the defect, malfunction or failure of the product or any component part was caused by damage (not resulting from a defect or malfunction) or abuse while in the possession of the customer, tampering by persons other than factory-authorized service personnel, or failure to follow Bryston operating instructions.

This warranty gives you specific legal rights and you may also have other rights which may vary from province to province or from state to state.