

# SPECIFICATION: "POINT ONE" PRE-AMPLIFIER

## CIRCUITRY:

A low noise, low distortion two-stage feedback tone control pre-amplifier. The first stage is used to give record compensation by the use of frequency selective negative feedback. The second stage uses feedback tone control circuits which give continuously variable control of both bass and treble frequencies. The sensitivities given below relate to 10 watts output at 1,000 c/s with the tone controls level and the pre-amplifier plugged into the TL/10 power amplifier which supplies the heater and H.T. voltages.

**Valves:** 2-EF86\* (Z729).

\*Preferred type, supplied with amplifier.

**Input Selector:** A six position switch allows the choice of inputs from:—

### TUNER.

Response, level.

Sensitivity, 80mV r.m.s. Input resistance varies from 100,000 ohms—250,000 ohms dependent on the position of the pre-set level control.

### RECORDS.

Sensitivity, 14mV. Input resistance varies from 50,000 ohms—100,000 ohms dependent on the position of the pre-set level control.

There are four separate characteristics available, these being:—

(a) AES & RCA ORTHO. [Audio Engineering Society and RCA New Orthophonic].

(b) COL. LP & FFRR LP. [Columbia (U.S.A.) LP and Decca (London) FFRR LP].

(c) NARTB & H.M.V. LP. [National Association of Radio & Television Broadcasters and H.M.V. (Angel) LP].

(d) BRITISH 78.

### TAPE.

Response, level. Sensitivity, 80mV r.m.s.

Input resistance, 100,000 ohms.

**Treble Control:** Continuously variable control of treble from +9 db to -15 db at 10 kc/s.

**Bass Control:** Continuously variable control of bass from +12 db to -13 db at 40 c/s.

**Volume Control and Switch:** The switch controls the power supply to the TL/10 (or TL/12) power amplifier.

**Panel Light:** This is fitted as a visual reminder that the power supply is on when the lamp is alight.

**"From Tape Replay Amp":** This input jack accepts signals from a tape replay amplifier (of any output impedance up to 50,000 ohms) embodying playback equalisation.

**"To Tape Record Amp":** This jack is connected across the output of the pre-amplifier and permits the user to record on to tape from radio or records when using a recorder embodying a low level recording amplifier.

The following components are mounted on the rear of the pre-amplifier chassis:—

- (1) Co-axial plugs and sockets are provided for tuner and pick-up connections.
- (2) Separate continuously variable pre-set controls are provided for the adjustment of the level of the input signals from tuner and pickups.
- (3) A terminal strip, marked "Optional load resistor" is provided to which a load resistor may be fitted for the correct matching of various types of pickups.
- (4) An octal socket, marked "Tuner," is provided from which H.T. and L.T. supplies may be drawn for a tuner unit.
- (5) An octal male socket, marked "From amplifier," accepts the female plug termination of the 3 ft. cable which is supplied for connecting the pre-amplifier to the TL/10 (or TL/12) power amplifier.

**Dimensions:** Front panel,  $10\frac{1}{4}'' \times 3\frac{1}{2}''$   
(27.3 × 8.9 cms.).

Chassis,  $9\frac{3}{8}'' \times 2\frac{3}{4}'' \times 3\frac{1}{4}''$  deep  
(23.8 × 7 × 9.6 cms.).

This unit will mount on a motor-board or other panel of any thickness, through a cut-out of  $9\frac{3}{8}'' \times 3\frac{3}{8}''$  (24.3 cms. × 7.7 cms.).

Five wood-screws (one spare) are supplied for fixing the pre-amplifier to a cabinet.

**Weight:** 3.4 lbs. (1.54 kgs.).

**Finish:** The front panel is finished in gold with black lettering and black knobs. The front panel presents a handsome appearance and blends with all woods.

**Price:** £10 10 0d.

**Note:** Any Leak pre-amplifier may be used with any Leak power amplifier.

## SERVICE SHEETS.

Each amplifier is accompanied by detailed circuit drawings showing values of components and voltage readings. Physical lay-out drawings are also supplied.