



Studio Control Console *Type BD 545*



5651

THE STUDIO CONTROL CONSOLE Type BD 545 is designed so that it can be mounted on an ordinary table, although a more attractive installation is provided by mounting it on the special desk Type BD 549A. This latter is supplied as a separate item and is illustrated on page 50.

The console is constructed of rolled metal with cast end-plates and framework. All the controls, indicator lamps and the meter are mounted on the sloping front panel which is hinged to give complete access to the inside of the console. The power unit is contained in a separate case.

FEATURES

High quality programme control of up to four low-level sources and any of four high-level sources.

Talk-back and rehearsal facilities.

Plug in amplifier units greatly facilitate servicing.

Aural and visual monitoring.

Automatic loudspeaker muting.

Pre-fade listening.

Faders fitted with self-evident dials.

PRE-FADE LISTENING AND MONITORING

A monitoring selector switch is incorporated in order to provide pre-fade listening and headphone monitoring on any of the input channels. A further position on the switch connects the headphones to a hybrid transformer in the output circuit of the console. This arrangement makes it possible to provide headphone monitoring of the

outgoing programme, whilst ensuring that no microphonic pick-up from the headphones is injected into the outgoing programme.

Loudspeaker monitoring can be provided when required, either by supplying a Portable Loudspeaker Monitor Type BD 527, which is complete with its own amplifier, or by supplying an amplifier Type BD 516 together with a power unit, and a floor mounting loudspeaker Type BD 526 or table mounting loudspeaker Type BD 525. In cases where the BD 549A desk is provided for mounting the console, the BD 516 amplifier and power supply unit can be conveniently housed in the right-hand pedestal. These units are described on pages 71 and 73.

REHEARSAL AND TALK-BACK FACILITIES

At the top right-hand side of the front panel of the console, three switches and four illuminated warning indicators are provided so that the required operating condition can be readily selected.

The first switch makes it possible to introduce an external line-up tone at approximately zero level into the channel which is otherwise associated with the four high-level sources.

The second switch sets the console to either the transmission or rehearsal condition.

The third switch provides talk-back on rehearsal. This switch operates a relay which connects the input of the fourth amplifier to two terminals which are provided for connection to a talk-back microphone. It also operates a relay which mutes the local loudspeaker and switches on the studio loudspeaker, when these are supplied.

LOUDSPEAKER MUTING

The five faders are all fitted with auxiliary contacts which can be connected as required and in conjunction with two loudspeaker muting relays for muting the cubicle and studio loudspeakers.

A fourth switch inserts a 10 db pad for attenuating the cubicle loudspeaker when required.

MISCELLANEOUS ITEMS

Two spare keys are provided on the front panel for use as required to suit particular installations. These could be used, for instance, to provide manual operation of relays associated with the studio red and blue warning indicators. Alternatively, they could be used as changeover keys in one or two of the input circuits to permit the connection of additional microphones or disc reproducers.

A tag board is provided inside the console for the connection of suitable resistance networks to attenuate the level of the four incoming high level sources to a convenient value.

In order to facilitate maintenance work, a feed meter is incorporated together with a selector switch for checking the amplifier feeds.

DATA SUMMARY

Input impedance: 30, 150, 300, 600 or 5000 Ω , balanced or unbalanced. 10,000 Ω for bridging a 600 Ω line.

Output impedance: 600 Ω , balanced or unbalanced.

Normal output level: +0 dbm at less than 0.5% distortion from 60 to 15,000 c/s.

Maximum output level: +12 dbm at less than 1% distortion from 60 to 15,000 c/s.

Maximum gain: (Microphone to line) 100 db.

Frequency response: ± 3 db, from 20 to 20,000 c/s.

Noise level (for signal input of -50 dbm): 70 db below maximum output.

Power supplies: 100-130 V or 200-250 V, 40-60 c/s single phase AC.

Power consumption: 60 W.

Dimensions:

| Height | Width | Depth | Weight |
|------------|-----------|-----------|-----------|
| Console | | | |
| 12 in. | 25 in. | 18 in. | 80 lb |
| (30.5 cm) | (63.5 cm) | (45.7 cm) | (36.3 kg) |
| Power unit | | | |
| 8½ in. | 10 in. | 8¼ in. | 30 lb |
| (21.5 cm) | (25.4 cm) | (20.9 cm) | (14 kg) |

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