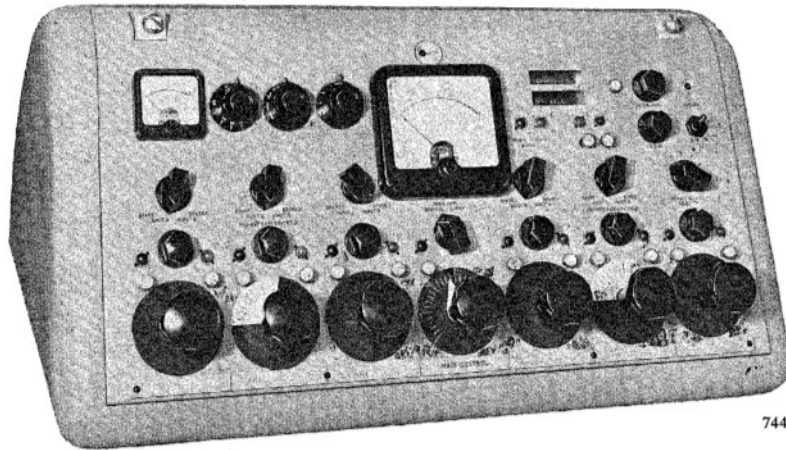




## Studio Control Console Type BD 595



7448

SOUND CONTROL CONSOLE Type BD 595 fulfils all the requirements of a modern sound studio control position. The facility of operation which is essential in a precision-timed broadcast production is provided by a clear and simple signalling system and a self-evident set of conveniently-planned controls. Furthermore the needs of a studio system of moderate size are adequately met in a unit of small dimensions which can be integrated with new or existing arrangements.

### FEATURES

Selection and High Quality Control of five out of ten low-level sources and one out of five high-level sources.

Pre-set Gain Controls on all channels.

High-level Mixing is employed.

Plug-in Amplifier Units greatly facilitate maintenance procedure, and reduce breakdown delays to a minimum.

Two Spare Amplifiers are included with facilities for instant changeover in the event of a microphone amplifier or programme amplifier failure.

Echo Loudspeaker Facility on any one of eight of the low-level inputs or on any one of the five high-level sources.

Pre-fade Listening by headphones, on all channels, with phone gain control.

Transmission or Rehearsal conditions by switch selection, with automatic muting of talk-back and line-up tone on the former.

Aural Monitoring by transformer-isolated circuit feeding phones and external loudspeaker amplifier.

Visual Monitoring by either a volume-unit or peak-programme meter, according to choice.

Full Two-way Cueing and Signalling facilities are afforded.

Rotary Faders with self-evident dials are employed, one in each channel and one in the programme line.

### CONSOLE

The compact console is both robust and attractive and is constructed of rolled metal, with cast end plates. Upon the hinged front panel are mounted all the controls, indicators and meters. This panel is sloped at an angle calculated to afford optimum ease of operation. By releasing two knurled screws, the panel can be let down to give full access to the interior of the console.

Either a volume-unit or peak programme meter is fitted on the front panel for visual monitoring of programme level.

### AMPLIFIERS

The amplifiers employed are dual-channel self-contained sub-units Type 2621 which plug into position with a simple sliding movement – forwards and downwards – all connections being made automatically with the plugging-in action. They are held rigid in the assembled position and yet are easily released for removal. Withdrawal and replacement of an amplifier unit takes only a matter of seconds, and this ensures that the control console is never out of service due to a breakdown in the electronic circuits. The valves and main components of the amplifier are assembled on an anti-vibration mounted deck, in order to counteract noise due to mechanical vibration.

### POWER SUPPLY UNIT

The power supply unit Type 2656 is housed in a centrally-hinged portable case complete with carrying handle. The case is held closed by two quick-release clasps and access to all components can be gained in a matter of a few seconds.

Input and output leads enter by plug and socket connections on the handle side of the case.

Barrel-type fuses and an indicator lamp are situated between the connectors.

The supply unit is robust and unobtrusive, and requires very little maintenance.

### DATA SUMMARY

#### Input impedance:

Microphone: 30  $\Omega$  or 600  $\Omega$  } balanced or  
High-level: 600  $\Omega$  } unbalanced

#### Output impedance:

600  $\Omega$  balanced or unbalanced.

#### Input levels:

Microphone: -90 to -50 dBm.

High level: -30 to +10 dBm.

#### Output levels (into 600 $\Omega$ ):

Working: +4 dBm normal, +10 dBm max.

Peak: +18 dBm max.

#### Power gain (max.):

From microphone input 105 dB.

From high-level input 39 dB.

**Frequency response:** Max. gain variation between 30 c/s and 15 kc/s,  $\pm 2$  dB.

#### Harmonic distortion (at +18 dBm):

At 1000 c/s, less than 0.5%

At 60 c/s, less than 1%

**Noise level:** Better than -119 dB referred to the input level (i.e. for a working gain of 70 dB the noise level is better than -49 dB).

**Power supply:** 110-120 or 200-250 V, 50 c/s, single-phase AC (Intervals of 10 V).

**Power consumption:** 170 VA approx.

#### Dimensions:

	Height	Width	Depth	Weight
<i>Console</i>	12 in. (30.5 cm)	25 in. (63.5 cm)	17½ in. (44.5 cm)	90 lb (41 kg)
<i>Power supply unit</i>	8½ in. (21.6 cm)	12 in. (30.5 cm)	8½ in. (21.6 cm)	35 lb (16 kg)

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