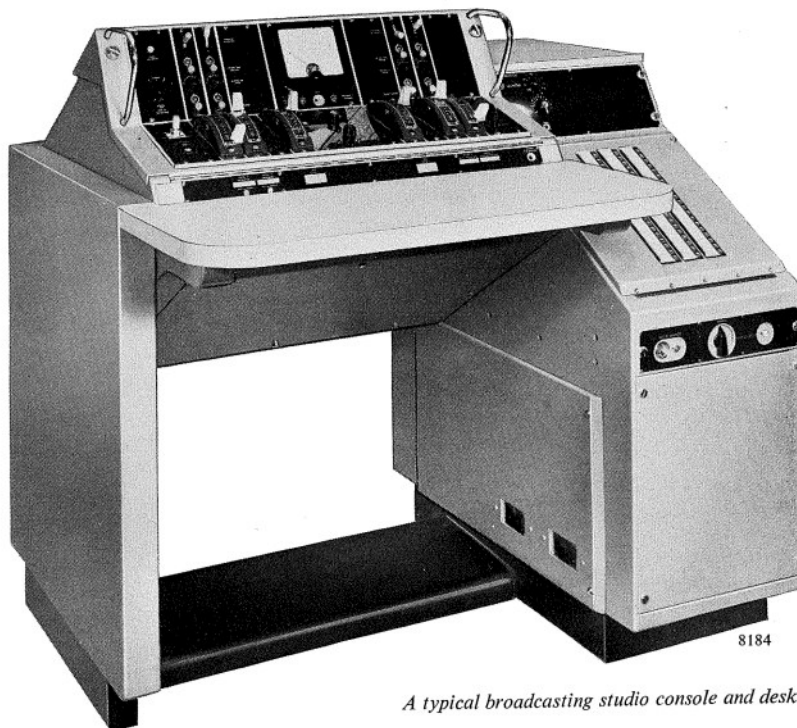




Broadcasting Studio Control

AN entirely new system of functional modules and amplifier units has achieved a great degree of adaptability of equipment to all possible broadcasting applications. The control consoles and desks described on this and the following page are based essentially on audio amplifiers and supply units shown on page 42. These basic electronic units may be assembled in standard cabinets as well as into consoles, pedestals, etc. A variety of such equipment is being produced, and the range is steadily widening in order to keep step with broadcasting engineers' requirements. Some of the most recent models are listed below, and it will be seen that there are basically two types. Type 4499 is a large equipment set between two pedestals of 5 ft 6 in. width, which can accommodate up to 9 microphone control channels, a maximum of 24 amplifiers and all auxiliary facilities. Type 4554 is a smaller model, a typical example of which is shown in the photograph, with a 3 ft 3 in. wide desk, mounting all faders and amplifiers. In all these control desks the pedestals accommodate supply units, jackfields, terminal blocks, and additional utility panels.



A typical broadcasting studio console and desk.

Features

- Visual monitoring by VU or peak programme meter.
- Aural monitoring by headphones and loud-speaker.
- Feedmeter for the periodical checking of high tension voltage and current.

- Echo facilities.
- Public address and foldback circuits.
- Jackfield for the patching of all circuits in the broadcasting chain.
- Sound effects filter.
- Spare amplifiers and power supply unit, switchable.

FACILITIES OF TYPICAL CONTROL DESKS

Type	Width	Description	Control Channels			No. of Amplifiers
			Mic.	High Level	Main	
4499A	5 ft 6 in. (168 cm)	Studio control	9	4	2	20
4499J	5 ft 6 in. (168 cm)	Continuity control	2	8 (23 source-lines)	1	8
4499L	5 ft 6 in. (168 cm)	Recording room control	0	4 (46 source-lines)	3 (13 destination-lines)	24
4554A	3 ft 3 in. (99 cm)	Studio control	2	2	2	10
4554B	3 ft 3 in. (99 cm)	Recording room control	0	4	2	4

EQUIPMENT

The amplifiers are all standard plug-in units allowing for instantaneous replacement in case of need. Gold-plated sets of connectors are employed throughout. In general, microphone lines and other low-level sources feed into Microphone Amplifiers, Type 3086; zero-level sources, like remote lines, tape reproducing equipment, etc., are accepted into high-level input units, Type 4618. Amplifiers Type 3086 also cater for programme control and output levels, while Isolation Amplifiers Type 4585 and Trap-valve Amplifiers Type 3088 facilitate line distribution to transmitters, recording equipment and monitoring ring-main buses. Regulated Power Supply Units Type 4550 are embodied into all control equipment, and the distribution of supply loads is generously rated throughout.

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