WHERE EXPERIENCE COUNTS MOST



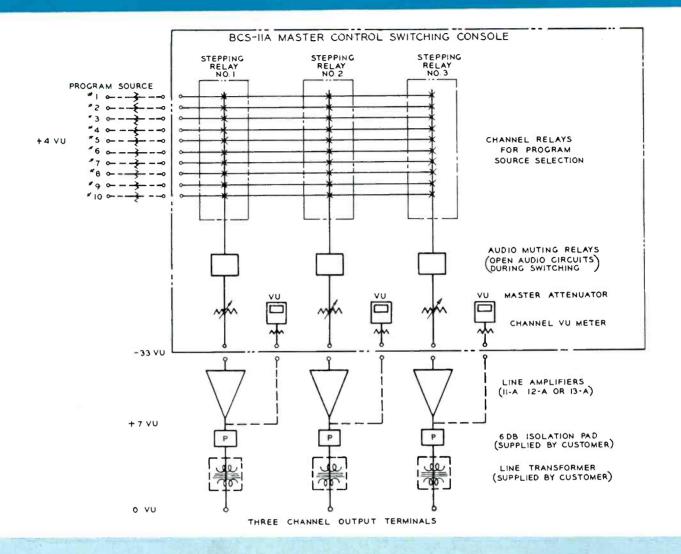
AM-JM-Television

MASTER SWITCHING CONSCLETTE

TYPE BCS-11A



THE BCS-11A OFFERS COMPLETE FOR AM-FM-



OUTSTANDING FEATURES

- Provides complete pre-set master control of ten program sources to three outgoing lines.
- Indicator pilots show "pre-set" studio and "onair" program source for channel in use.
- Mechanical interlocking provided to eliminate feeding two programs to one outgoing line.
- Special telephone type stepping relays for line selector switching.
- Solid silver contacts for all audio circuits for optimum wear and long service.

- Permits one-man central control.
- Easy access to components through hinged front panel and removable top panel.
- Matches BC-2B Consolette styling for harmonious "side-by-side" installation.
- Small size permits economical desk-top installation.
- Combines many basic functions found in *custom* master control equipment.

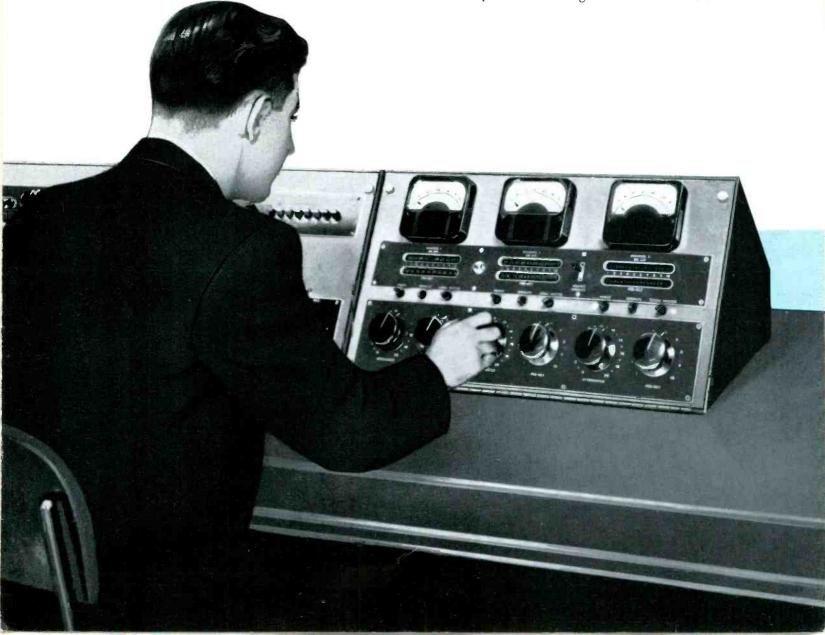
MASTER SWITCHING CONTROL AND TV SOUND

Developed to meet the demands of numerous broadcast stations requiring master switching facilities for more than one channel, the BCS-IIA Master Switching Consolette provides accurate pre-set master switching of as many as ten program sources to three outgoing lines.

Precision design and construction combine many functions normally found in custom master control units to assure accurate handling of studie, network, recording, remote and consolette inputs. This "semi-custom" design provides extreme flexibility, allowing it to be used with broadcast studio consolettes.

Three groups of indicator pilots—one for each channel—show the "pre-set" studio and "on-air" program source for the particular channel in use. The switching facilities for each outgoing channel provide for indicator lamps at the remote program source location to show its switching status. Interlocking devices are included to prevent the conflicting feeding of two programs to one outgoing line.

Separately illuminated VU meters are provided for each of three channels. The meter lamps are connected to the channel power switch and thus serve as pilots indicating an active channel.



MASTER SWITCHING OF TEN PROGRAM SOURCES TO THREE OUTGOING LINES



BCS-11A MASTER SWITCHING CONSOLETTE FRONT PANEL

The BCS-11A Master Switching Consolette combines many basic functions normally found in custom master-control units. The design of the BCS-11A switching facilities includes three stepping switches, each containing five separate banks of contacts mounted side by side. Pre-set program source selection for three outgoing channels is also included.

Each channel is provided with a broadcast quality bridging 20-step attenuator with detent action which allows the use of the BCS-11A on any audio line of 600 ohms or lower, and also permits the operation of all three channels on any one audio program source without disturbance to line levels due to switching. A selection switch for each channel permits either individual or collective switching of all channels, while other controls are included to activate all outgoing channels either separately or simultaneously.

A power switch associated with each channel is provided to turn off all relay power to that channel without disturbing the switching arrangement. A relay power failure does not remove the program from the air, and return of power after a failure does not offset or alter the program switching.

This precisely built master switching equipment leatures high-quality components throughout. Special telephone type stepping relays are used for line selector switching and all audio circuits use solid silver contacts to provide optimum wear for longer service.

The complete switching facilities of the BCS-11A are enclosed within a single, compact unit except for an external relay power supply. The BCS-11A consolette housing also provides space for mounting line transformers or fixed attenuators, and features ease of accessibility for maintenance and inspection of components.

CONTROLS INCLUDE

Pre-Set Selectors—to select one of the ten possible inputs or program sources to an outgoing line. Pre-set program sources include 10 inputs from studios, network, recording rooms, consolette inputs and remotes.

Indicator Pilots—show the particular pre-set channel in use and serve as "on-air" indicator lamps.

VU Meters—are provided for each of the three channels and also serve as "active channel" indicators.

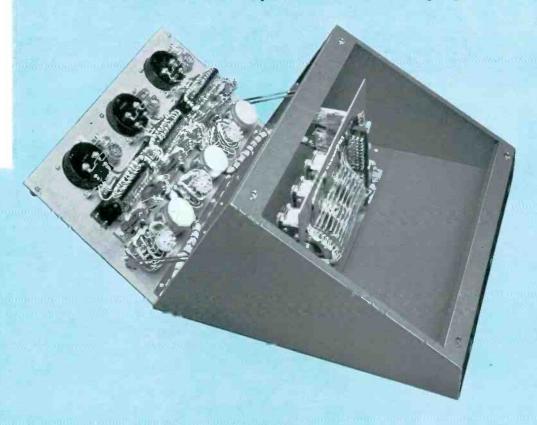
Power Switches—one for each channel to control relay power without disturbing the switching arrangement.

Operate Buttons—one assigned to each outgoing channel to activate channels separately.

Master Operate Key-activates all outgoing channels simultaneously.

Local Master Switches—one for each outgoing channel permit individual or collective switching of all channels.

Master Attenuators—three are provided—one for each outgoing channel.



Easy access to relays, terminal blocks and other components is assured by the removable top panel and the hinged front panel. Space is provided for installation of line transformers or fixed attenuators.

COMPANION INSTALLATIONS FOR ONE-MAN CONTROL



Styled to match the BC-2B Studio Consolette in shape and appearance, the BCS-11A Master Switching Consolette lends itself to "side-by-side" operation thus making possible a convenient, central master studio control. Such companion installations are economical because existing consolettes are utilized and size requirements permit desk-top mounting which eliminates the need for special constructions.



BC-2B Consolette and the BCS-11A Master Switching Consolette. The total overall length of these three units mounted in this fashion is 72½". These studio control units are harmoniously styled to match

TV control consoles.

BCM-1A AUXILIARY MIXER CONSOLE

OUTSTANDING FEATURES

- Matches BCS-11A and BC-2B in styling and shape.
- Triples microphone inputs of BC-2B Consolette.
- Ideal for TV-Audio control.
- Allows "block-building" as required for added inputs.

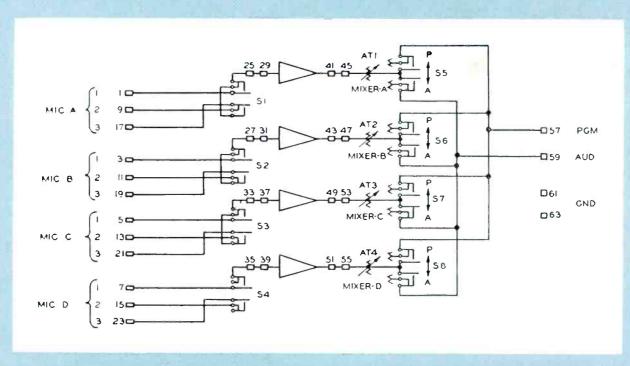
The BCM-1A Auxiliary Mixer is designed to fulfill the needs of Television and large AM studios which employ a larger number of microphones than the standard studio consolette can accommodate.

The BCM-1A's four high level microphone mixers when used with the four microphone mixers of the BC-2B Consolette permit simultaneous use of eight microphones. Four three-position switches in the preamplifier input circuits allow a selection from twelve microphones which may be located in three different studio staging areas.



Program and audition mixer buses may be connected directly to the program and audition mixer buses of the consolette. The mixer switches are interlocked with the consolette's speaker and warning light relay circuits.

The single, compact unit offers complete accessibility to all components for servicing and inspection. Power is externally supplied.



BLOCK DIAGRAM OF BCM-1A AUXILIARY MIXER CONSOLE



PERFORMANCE SPECIFICATIONS

BCS-11A MASTER SWITCHING CONSOLETTE

Input Channel Impedance . . . 600 ohms or less Load Impedance (Output Channel) . . 600 ohms Bridging Loss (for 600 ohm input) . . . —32 db Input Level (for values below) + 14 dbm Cross Talk between Inputs and

Channels. Better than 70 db below program level Noise Level Better than 70 db below program level Switching Transients... Better than 70 db below program level

Power Input
(switching unit only) . . . 1.35 amp. 24 v. d-c
Power Input (switching unit and studio
indicator lamps) 1.6 amp. 24 v. d-e

Maximum Switching Time . Approx. 1/3 second

DIMENSIONS

Length .	j.												ī.	. 221/2"
Height .											٠.			. 111/4"
Depth .														. 211/2"
Weight	140		٠.				4							70 lbs.
Finish .														
Stock 1d	en	tifi	ica	ıtie	on	٠	•	•	٠	•			M	1-11633

ACCESSORIES

Relay Power Supply						MI-11309
BA-11A Amplifier.						MI-11231
BA-14A Amplifier.						MI-11234-A
Line Transformer						MI-11713
Pad, 6 db 600/600	ol	111	18			MI-4171-29

BCM-1A AUXILIARY MIXER CONSOLE

Amplifiers . . . Two MI-11241 Dual Preamplifiers Tube Complement Four MI-11299 RCA Selected 12-AY7

Audio Outputs . Program Mixer Bus (balanced)
and Audition Mixer Bus (balanced)

Power Requirements
Plate (280V, 16 ma d-c)
Heater (6.3V, 1.2 amp, a-c)
Power Supply . . One MI-11305-D Preamplifier
Power Supply

Control Circuits . . Eight connections required to BC-2B Consolette for interlock with speaker and signal light relay circuit. No power is required.

DIMENSIONS

					2	m	d j	pa	ne	ı,	liş	ght	11	m	be	r gray
Finish				T											* /	
Weight	ı,			•				6	0	lbs	٠.,	ap	pi	ro	кir	nately
Length																
Depth			٠		•		•			•	•		•			$21\frac{1}{2}$
Height	1	٠	٠	,			٠			٠						$11\frac{1}{2}$

STOCK IDENTIFICATION

BCM-1A complete with two MI-11634 Dual Preamplifiers wired in place MI-11634

FIELD OFFICES

36 West 49th Street NEW YORK 20, NEW YORK 1907-11 McKinney Avenue

DALLAS 1, TEXAS

522-33 Forsyth Building
ATLANTA 3, GEORGIA

1625 K Street, N.W. WASHINGTON 6, D. C.

340 Dierks Building 1006 Grand Ave KANSAS CITY 6, MISSOURI

1560 North Vine Street HOLLYWOOD 28, CALIFORNIA

1355 Market Street
SAN FRANCISCO 3, CALIFORNIA

666 North Lake Shore Drive CHICAGO 11, ILLINOIS

718 Keith Building CLEVELAND 15, O'HIO

200 Berkeley Street John Hanzock Bldg. BOSTON 16, MASSACHUSETTS

CAMDEN.

298376

PRINTED IN U.S.A

BROADCAST EQUIPMENT SECTION

RADIO CORPORATION OF AMERICA