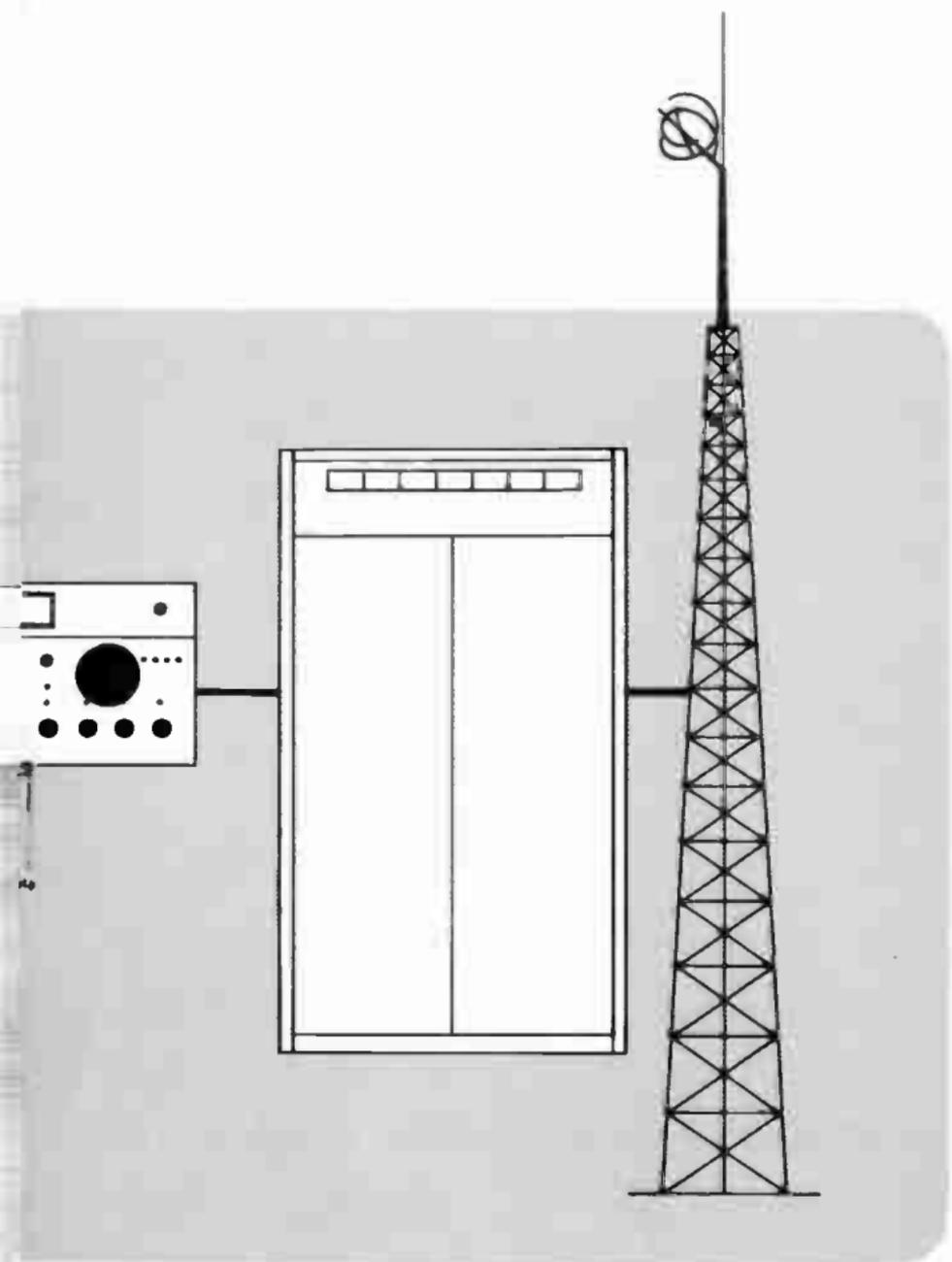


# RCA



## A Guide to RCA Audio and Radio Equipment



# RCA

RCA product offerings in radio and audio equipment comprise hundreds of items ranging from amplifiers to antennas, microphones to mixers, tape systems to transmitters. They share the common characteristics of excellence in performance, dependable service and quality construction.

This brief guide identifies major products and references the appropriate catalog sheet which contains detailed specifications. For convenience, the equipment has been grouped into these categories:

Audio Equipment	
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# Audio Equipment

All equipment listed here is offered  
for 50/60 Hz: 110/220V operation.

## Microphones



		Catalog
77DX	Polydirectional Ribbon Microphone	B.1009
BK-1A	Pressure Dynamic Microphone	B.1012
BK-5B	Uniaxial Ribbon Microphone	B.1018
BK-6B	Miniature Dynamic Microphone	B.1019
BK-11A	Velocity Bi-Directional Microphone	B.1024
BK-12A	Sub-Miniature Dynamic Microphone	B.1025
BK-14A	Omnidirectional Dynamic Microphone/Windscreen	B.1014
BK-16A	Omnidirectional Dynamic Microphone	B.1016
SK-30	Pressure Dynamic Microphone Low Z	B.1027
SK-46	Velocity Bi-Directional Microphone	B.1029
	Microphone accessories— Stands, connectors, plugs, adaptors, etc.	B.1030

# Tape Recording Systems

## Reel-to-Reel Recorders

Catalog  
B.1704

RT-21D, Mono and Stereo

Full track and dual half track:  
available in  $3\frac{3}{4}$  /  $7\frac{1}{2}$  IPS and  
 $7\frac{1}{2}$  / 15 IPS speeds; NAB and  
CCIR Equalization; 50/60 Hz,  
110/220V

RT-20, Playback only version of RT-21 B.1710



RT-22B

B.1706

Similar to RT-21; however  
uses NAB cartridge tape head  
configuration and cue tones.  
Mono and Stereo

RT-19, Reel-to-Reel Logging System B.1700

Up to 300 hours on 4 tracks;  
Speeds 5/16, 15/32; 15/16 IPS

## Cartridge and Cassette Systems

RT-27A/BA-27A Cartridge Tape

Record-Playback Systems B.1740

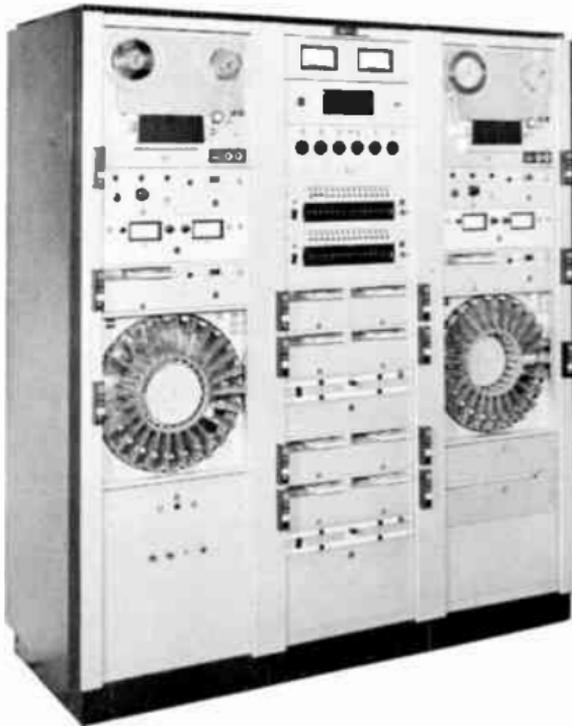
Mono, stereo, with accessory  
cue features.

Note: RCA introduced a broadcast quality cassette Record/Playback system at the March, 1971 NAB Convention. The cassette transport used in this system is interchangeable with the NAB cartridge transport used in RCA's current RT-27 systems. This transport will be available as a separate item.

## Catalog

- RT-16/26 Multi-cartridge Tape Playback Systems** B.1735  
Six and twelve deck versions.  
Stereo and mono.
- RT-25 Carousel Multi-cartridge Playback System** B.1737  
Mono or stereo; 24 cartridges available in random or sequential select versions.
- A wide variety of tape accessory equipment is available, including reel tape, NAB cartridges and cassettes, test tapes, remote panels, equalizers, relays, bulk erasers, etc.
- B.1704  
B.1733  
B.1735  
B.1740  
B.1762

## Automation Systems



Complete range of flexible, "building block" systems, with solid state computer logic in combination with extra-reliable cartridge and reel tape equipment.

BNR-14336

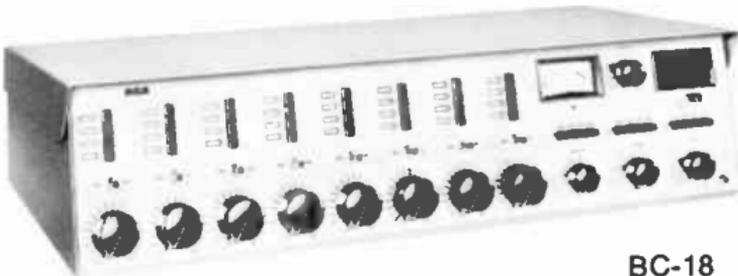
## Transcription Systems

- BQ-50, Three-speed Turntable** B.1607
- BQ-51, Turntable** B.1610  
Highest quality stereo disc reproduction, lowest rumble, wow and flutter.
- BDR-1, Disc Reproducer System** B.1618  
Integrated matched design for unexcelled FM stereo performance.

- Lightweight Tone Arms B.1613  
Available in 12-inch and 16-inch versions. Rugged, dependable performance.
- BA 26/36 Transcription Preamplifier B.1414  
Mono and stereo, including variable equalization and built-in power supply.

## Audio Mixing Consoles

- BC-7, Dual Channel, mono/stereo B.1115  
10 input channels; 33 input sources.
- BC-8, Dual Channel, mono/dual B.1118  
8 input channels; 24 input sources.
- BC-9, Monaural B.1119  
4 input channels; 20 input sources.
- BC-14, Mono, stereo, dual channel B.1104  
4 input channels; 16 input sources. Rack and console versions.



BC-18

- BC-15, Mono, stereo, dual channel B.1105  
5 input channels; 20 input sources.
- BC-17, Three-Channel Audio Console B.1122  
Stereo/Mono. 10 input channels; 46 input sources.
- BC-18, Mono, stereo, dual channel B.1105  
8 input channels; 32 input sources.
- BC-19, Stereo or dual channel, B.1129  
4 input channels, 20 input sources.
- BCM-2, Auxiliary Mixer Console B.1131  
Supplements main mixer for adding 15 input sources.
- BC-100, Custom Audio Console B.1200  
Modular, plug-in construction, assembled on order to suit customer requirements.

Portable Consoles for Remote or Mobile Applications	
BN-1, Single Channel Remote Amplifier	B.1437
BN-4, 4-Channel Remote Amplifier	B.1437
BN-7, 2-Channel Remote Amplifier (AC or built-in battery)	B.1435
BN-17, 4-channel Remote Amplifier (AC or built-in battery)	B.1439

## Amplifiers

BA-40 Series, includes many special purpose amplifiers for dis- tribution, program, monitor- ing, limiting, AGC signal and processing and pre-amplifica- tion, all with built-in power supply.	B.1405 B.1407 B.1411 B.1417 B.1419 B.1429 B.1430 B.1433
BA-70 Series, includes program, mon- itor and cue amplifiers and preamplifiers.	B.1420 B.1421 B.1422 B.1423

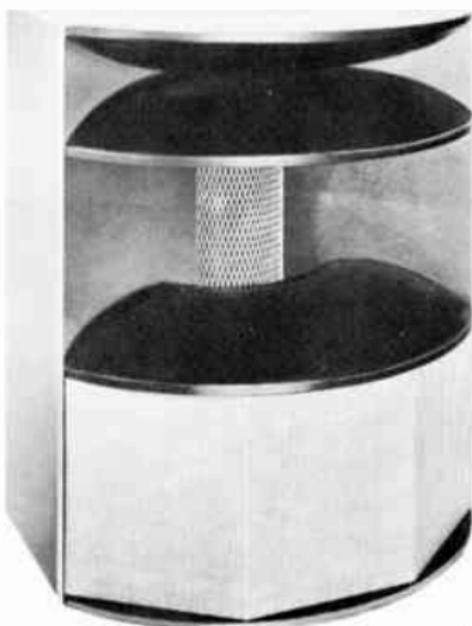
## Power Amplifiers

SA-115, 10 Watt Transistor 8 ohm speaker or 70V line outputs.	B.1478
SA-1000, Power Amplifier 100 Watts at less than 2% distortion. Speaker or 70V line outputs.	B.1470
SA-1004, Mixer Power Amplifier 5 inputs; 100 watts at less than 2% distortion. Speaker or 70V line outputs.	B.1474
SA-2000, Power Amplifier 200 Watts at less than 2% distortion.	B.1480

## Loudspeakers

SL-8, 8-Inch, 10W Speaker 8 ohms	B.1806
SL-890, 8-inch, 15W Speaker 70-V line	B.1812
SL-12, 12-Inch, 10W Speaker, 8 ohms	B.1808
LC-1C, 16-Inch Duo-Cone Speaker 40W, 15 ohms; 120° sound radiation.	B.1804
LC-9, Auditorium Speaker System 35-22,000 Hz frequency range. 50W program power, 16 ohms.	B.1810

	Catalog
Speaker system accessories: hous-	B.1829
ings, transformers, crossover	B.1888
networks, etc.	B.1894



LC-9

## Miscellaneous

An extensive variety of racks, shelving, metal and wood furniture and related accessory items are available for mounting system components and assemblies.

B.1500  
B.1505

## Intercom/Interphone Equipment

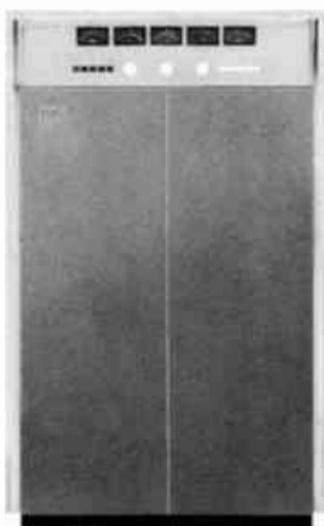
BCS-5000 Custom Intercom System B.1150  
Available on order to suit specific requirements. Solid state crosspoints. Numerous configurations ranging from 5 x 5 (5 inputs, 5 outputs) to 250 x 250 systems.

Related Interphone Equipment B.1510  
Headsets — 12 types offered. Mono B.1137  
and stereo models, single and double.

## Test Equipment

A wide choice is offered, including B.1915  
VTVM, frequency meters, audio oscillator, distortion meters, signal generators, transistor tester, VOM and many others.

# FM Transmitters



Catalog  
B.6556

10/15W Transmitter, BTE-15A  
(BTE-15A can be used separately as a 10/15W Transmitter or as an Exciter System for higher power transmitters. Space provided for BTS-1B Stereo Generator and two BTX-1B SCA Generators.)

1 kW, BTF-1E2, one-tube Transmitter B.6500

Can be operated at any power level between 250W and 1 kW. Uses BTE-15A Exciter System.

7,495

3 kW, BTF-3E1, two-tube Transmitter B.6504

Can be operated at power levels between 1 kW and 3 kW. Uses BTE-15A Exciter System.

5 kW, BTF-5E1, two-tube Transmitter B.6505

Can be operated at power levels between 2 kW and 5 kW. Uses BTE-15A Exciter System.

14,995

10 kW, BTF-10E1, two-tube Transmitter B.6510

Can be operated at power levels between 5 kW and 10 kW. Uses BTE-15A Exciter System.

19,995

20 kW, BTF-20E1, three-tube Transmitter, 2 stages B.6520  
 Can be operated at power levels between 7.5 kW and 20 kW. Uses BTE-15A Exciter System.

~~20,995~~  
 26,995

40 kW, BTF-40E1, six-tube Transmitter B.6535  
 Consists of two BTF-20E1 Transmitters, with combined output of 40 kW. Includes two BTE-15A Exciter Systems (only one required for normal 40 kW operation.)

60,295

Note: All RCA transmitters can be provided as parallel systems for redundant operation for maximum reliability. They can provide for combined output (2 times operating power) or for two outputs at the operating power of each separate transmitter.

## FM Monitors

BW-75A, Main Channel Frequency and Modulation Monitor B.6826  
 Indicates main carrier frequency and total modulation.

BW-85A, Stereo Frequency and Modulation Monitor B.6828  
 Indicates pilot carrier frequency and stereo modulation.

BW-95A, SCA Monitor B.6830  
 Indicates SCA subcarrier frequency and modulation for up to 4 channels.

BW-100B, FM RF Amplifier B.6822  
 Used at remote locations to feed off-air signal to FM monitors.

## Remote Control Equipment

BTR-30A, Remote Control System B.6602  
 Provides for metering 30 parameters. Provides control for 30 ON/RAISE functions and 30 OFF/LOWER functions.

BTR-15A, Remote Control System B.6603  
 Similar to BTR-30A, with capability for metering 15 parameters, controlling 15 functions.

Also available is a variety of accessory items for remote control, including meter shunts/multipliers, aural STL, Automatic Logging, antennas, etc.

# AM Transmitters



Catalog

1 kW, BTA-1N, Class "B" Linear B.6002

1 kW, BTA-1S, partially transistorized. B.6004

Can be operated at power levels between 100W and 1 kW.

5 kW, BTA-5L, Ampliphase Modulated Transmitter B.6005

Only four tubes. Solid State oscillator, exciter, modulator. Operates at preselected power levels between 500W and 5 kW.

10 kW, BTA-10L, Ampliphase Modulated Transmitter B.6005

Six tubes. Solid state oscillator-exciter-modulator. Operates at preselected power levels between 500W and 10 kW.

22,500

20 kW, BTA-20L. Two BTA-10L Transmitters operated in parallel for 20 kW output. B.6005

50 kW, BTA-50J, Ampliphase Modulated Transmitter B.6050

Six tubes. Solid state oscillator-exciter-modulator. Operates at preselected power levels between 5 kW and 50 kW.

99,750

100 kW, BTA-100J, Ampliphase  
Modulated Transmitter B.6050  
Eight tubes. Solid state oscillator-exciter-modulator. Operates at preselected power levels between 10 kW and 100 kW.

200 kW, BTA-200J. Two BTA-100J B.6050  
Transmitters operated in parallel for 200 kW output.

Note: All RCA Transmitters can be provided as parallel systems for redundant operation for maximum reliability. They can provide for combined output (2 times operating power) or for two outputs at the operating power of each separate transmitter.

## AM-Monitoring Equipment

BW-50, Frequency and Modulation  
Monitor B.6410  
Reads carrier frequency and negative and positive modulation.

BW-60, AM RF Amplifier B.6411  
Used at remote location to feed off-air signal to AM monitors. Used to drive BW-50.

## Antennas, Transmission Line

### AM

Antenna Tuning Units (ATU's) B.6270  
Phasing Equipment B.6260  
Transmission Line B.6200  
All types, including open wire, rigid, B.6272  
coaxial, semi-flexible, air and solid  
dielectric.

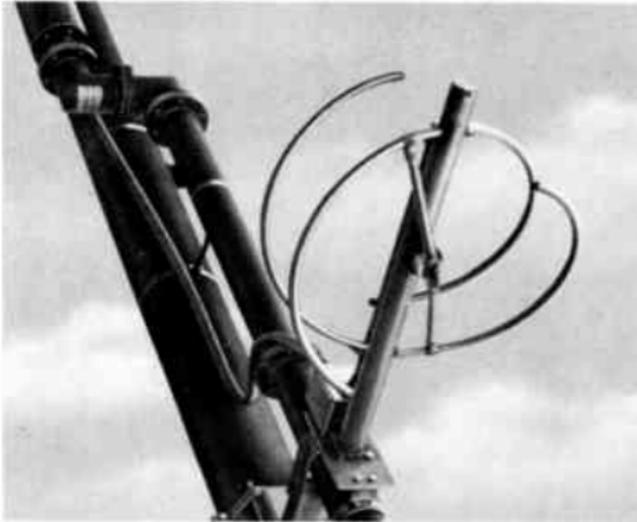
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### FM Antennas

BFA B.6756  
Top and side mount, horizontally polarized.

BFC B.6759  
Circularly polarized, 50% horizontal, 50% vertical. High power, high gain.

- |     |  |                   |
|-----|--|-------------------|
|     |  | Catalog<br>B.6753 |
| BFH | Circularly polarized, 50% horizontal, 50% vertical; medium power, medium gain.               |                   |
| BFI | Circularly polarized; low power, low gain. Also available in horizontally polarized version. | B.6755            |



- |                           |   |        |
|---------------------------|---|--------|
| BFG                       | Circularly polarized, variable ratio, vertical to horizontal. High power, high gain.  | B.6751 |
| BFD, BFE and BFF Antennas | All are circularly polarized, extremely broadband, with high power handling capability. Designed for multi-station operation. | B.6758 |

## Transmission Line

All types are offered, including coaxial, rigid, semi-flexible, air and solid dielectric. B.6200 B.6272

## AM/FM Towers

RCA offers a complete line of towers; insulated and non-insulated; guyed and self-supporting. B.6250

For further information or planning assistance on Audio/Radio equipment and systems, contact your RCA Representative. He will be glad to share his experience with you.

# Broadcast Systems Sales Offices

Atlanta, Ga. 30329  
14 Executive Park Dr., N.W.  
404-634-6131

Austin, Texas 78758  
Northwest Office Park Bldg.  
Suite 134, 8330 Burnet Road  
512-451-2500

Birmingham, Ala. 35223  
Office Park Bldg. #10  
Office Park Circle, 205-871-1155

Boston: Needham Heights, Mass. 02194  
360 First Ave., 617-444-7200

Burbank, Calif. 91505  
2700 W. Olive Ave., 213-849-6741

Camden, N. J. 08102  
Front & Cooper Sts., 609-963-8000

Charlotte, N. C. 28210  
6230 Fairview Road, Suite 104  
704-366-0626

Chicago, Ill. 60606  
Gateway II Bldg., Suite 1400  
120 S. Riverside Plaza, 312-782-0700

Cincinnati, Ohio 45231  
8234 Winton Rd., 513-522-8810

Dallas, Texas 75247  
8700 Stemmons Freeway, 214-638-6200

Denver, Colo. 80211  
2701 Alcott Street  
Suite 384, 303-433-8484

Detroit: Southfield, Mich. 48075  
20830 Rutland Ave., 313-357-0080

Kansas City Area:  
Overland Park, Kansas 66207  
5750 West 95th St., Suite 111  
913-642-3185, 6, 7

Meadow Lands, Pa. 15347  
Washington County, 412-222-1100

Minneapolis, Minn. 55416  
4522 Excelsior Blvd., 612-922-3303

New York, N. Y. 10036  
1133 Avenue of the Americas  
5th Floor, 212-586-3000

San Francisco, Calif. 94102  
420 Taylor Street  
415-441-2200

St. Louis, Mo. 63105  
7733 Forsyth Blvd., Suite 662  
314-862-3660

Seattle, Washington 98134  
2246 First Ave. S., 206-622-8350

Washington, D. C. Area:  
1901 N. Moore Street  
Arlington, Va. 22209  
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West Palm Beach, Fla. 33403  
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