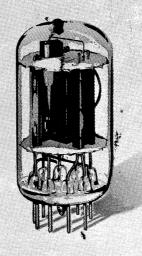
TECHNICAL SERIES RC-24

\$125 SUGGESTED

## RECEIVING TUBE MANUAL





RADIO CORPORATION OF AMERICA

ELECTRONIC COMPONENTS AND DEVICES

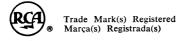
HARRISON, NEW JERSEY

## Contents

| ELECTRONS, ELECTRODES, AND ELECTRON TUBES  Electrons, Cathodes, Generic Tube Types, Diodes, Triodes, Tetrodes, Pentodes, Beam Power Tubes, Multi-Electrode and Multi-Unit Types, Receiving Tube Structure, Television Picture Tubes   | Page 3 |
|---|--------|
| ELECTRON TUBE CHARACTERISTICS   | 13     |
| ELECTRON TUBE APPLICATIONS  | 15     |
| ELECTRON TUBE INSTALLATION  Filament and Heater Power Supply, Heater-to-Cathode Connection, Plate Voltage Supply, Grid Voltage Supply, Screen-Grid Voltage Supply, Shielding, Dress of Circuit Leads, Filters, Output-Coupling Devices, High-Fidelity Systems, High-Voltage Considerations for Television Picture Tubes, Picture-Tube Safety Considerations | 67     |
| INTERPRETATION OF TUBE DATA   | 79     |
| APPLICATION GUIDE FOR RCA RECEIVING TUBES   | 85     |
| TECHNICAL DATA FOR RCA TUBE TYPES   | 94     |
| PICTURE-TUBE CHARACTERISTICS CHART  | 494    |
| RCA VOLTAGE-REGULATOR AND   |        |
| VOLTAGE-REFERENCE TUBES   | 499    |
| ELECTRON TUBE TESTING   | 500    |
| RESISTANCE-COUPLED AMPLIFIERS   | 504    |
| OUTLINES  | 513    |
| CIRCUITS  | 519    |
| INDEX TO RCA RECEIVING TUBES  | 561    |
| INDEX   | 568    |

Information furnished by RCA is believed to be accurate and reliable. However, no responsibility is assumed by RCA for its use; nor for any infringements of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of RCA.

Copyright 1965 by Radio Corporation of America (All Rights Reserved)



N.Z. BROADCASTING COMPORATIO

## RCA Receiving Tube Manual

THIS MANUAL, like its preceding editions, has been prepared to assist those who work or experiment with home-entertainment-type electron tubes and circuits. It will be found valuable by engineers, service technicians, educators, experimenters, radio amateurs, hobbyists, students, and many others technically interested in electron tubes.

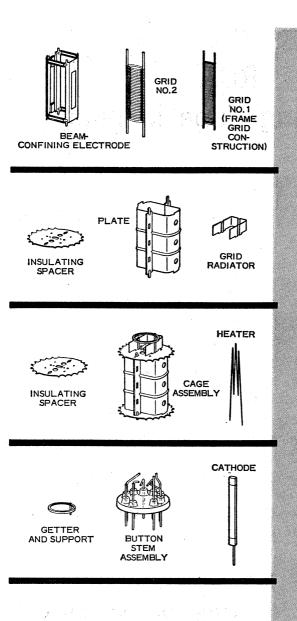
This up-dated edition features an all-inclusive Index to RCA Receiving Tubes, a comprehensive listing which will greatly facilitate the location of specific tube types in the manual. In addition, for more convenient referencing of latest tube types, the Technical Data Section has been restricted to coverage of active RCA types; basic data for replacement and discontinued RCA tubes are given in the RCA Types for Replacement Use table.

## RADIO CORPORATION OF AMERICA

ELECTRONIC COMPONENTS AND DEVICES

HARRISON, N. J.

was the second amounts that are affected from the first fitting the second



Parts of a Typical Receiving Tube

