

TELEVISION  
ASSEMBLY CO.

520 Sq. In. PICTURE  
20" x 26"

## PROJECTION TELEVISION

IN ASSEMBLY FORM FOR CUSTOM INSTALLATIONS



### THE PICTURE . . .

A full 520 square-inch picture (26" wide x 20" high) is obtained by this Refractive Electronic System. The picture is projected onto a flat Screen. The picture tones are the true tones of black, grey and white. The picture is brilliant, sharp, "soft", completely glare-free for the utmost in eye-comfort and pleasure. For realism, clarity, definition and beauty, the pictures produced by this System are excellent.

### THE RACK . . .

Constructed of the finest quality durable metal, the rack is designed, when assembled, to give the exact throw required. Its dimensions are: Front Height — 66 $\frac{1}{4}$ "; Back Height — 48 $\frac{5}{8}$ "; Width — 30 $\frac{3}{4}$ "; Depth — 23 $\frac{1}{2}$ ". It is excellently suited for custom installations into cabinets, walls, bookcases, etc.

#### TELEVISION ASSEMBLY COMPANY GUARANTEE

All components of the PROJECTION TELEVISION ASSEMBLY are of the finest quality and are fully guaranteed under the Standard RMA Guarantee.

*Custom Engineered*

EXPRESSLY FOR CUSTOM  
BUILT INSTALLATIONS

*Another Incomparable*

# TELEVISION ASSEMBLY **FIRST!**

Ideal for Homes, Theatres, Bars & Grills, Schools, Hospitals,  
Clubs, Lodges, Auditoriums and other Public Places.

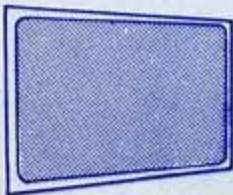


## THE OPTICAL - ELECTRONIC SYSTEM



### THE PROJECTION MIRROR

The fidelity projection picture is projected through the Lens onto a specially designed aluminum-top coated mirror with exceptional reflective efficiency.



### THE PROJECTION SCREEN . . .

Explicitly engineered to "concentrate" light, the Eastman-Kodak Projection Television Screen is manufactured of the finest quality glass to meet the most exacting optical specifications. It measures 26" wide x 20" high — for a full 520 square-inch picture. Its capacity for light retentiveness enables the production of extra-brilliant, extra-sharp, yet "soft" pictures that faithfully reproduce the true tones of black, grey and white; and that are comfortably viewed from close or distant range.

### THE ANTENNA SYSTEM . . .

A specially designed Single Dipole and Reflector, plus 60 ft. 73-ohm lead-in, is supplied with each PROJECTION TELEVISION ASSEMBLY. With its higher gain and directional characteristics, this Antenna suitably supplements the high sensitivity and selectivity inherent in the PROJECTION TELEVISION ASSEMBLY. The Antenna Input is an unbalanced 73-ohm line.

(THE CHASSIS EMPLOY INTERCONNECTING WIRE CABLES TO PERMIT MAXIMUM ACCESSIBILITY FOR SERVICING).



### THE PROJECTION C. R. TUBE

The RCA 5TP4 is ideally suited for projection television purposes, inherently designed for extra brilliance and fine definition and clarity. Permitting extra-wide focusing control, it provides excellent pictures that can be seen at great distances. It best approximates the three-dimensional effect, and combines the abilities of incandescent brilliance and long life.



### THE PROJECTION LENS

The Bausch & Lomb F/1.9 Projection Lens — the supreme highlight in projection television optics — incorporates a specially designed precision lens that possesses unsurpassed refractive powers. Characteristics: Lens speed is F/1.9; EF 5 inches (127.0 mm); length—7"; diameter—4 1/4". The plates for housing the lens are made of high quality finished steel.

### HIGH VOLTAGE POWER SUPPLY (PRE-WIRED) . . .

Using flyback deflection, this Power Supply consists of three type 1B3 as a Tripler, operating with unusually high efficiency under all voltage drops. It constantly maintains a 3" x 4" picture of incandescent brilliance on the face of the Projection C. R. Tube, at a minimum of 27 KV. Focus Control Pot built in. Completely wired on one chassis, tubed, tested, and ready for operation.

### MANUAL OF INSTRUCTIONS AND SCHEMATIC DATA . . .

PREPARED AND EDITED BY  
JOHN F. RIDER PUBLISHER, INC.

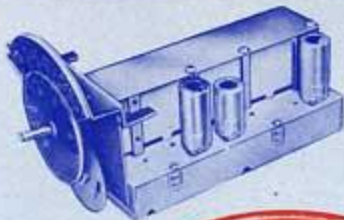
Full schematic diagrams, plus complete pictorial data of the chassis for the placement of components, and instructions for wiring are supplied with each PROJECTION TELEVISION ASSEMBLY.

*The complete manual is easily followed by anyone familiar with the fundamentals of electronic wiring.*

## THE R. F. VIDEO & SOUND SYSTEM

### THE DUMONT INPUTUNER (PRE-WIRED)

Covering all 12 TV channels plus full FM Radio, amateur and aviation channels, the Dumont Inputuner tunes continuously from 44 to 216 MC without a break. It comprises three continuously tunable circuits — two for bandpass, one for oscillator; three vacuum tubes: 6J6 grounded-grid input; 6AK5 mixer; 6J6 separate oscillator. Overall gain of order of 15. Image suppression ratio of order of 100. IF ratio of order of 1000. BC trap minimizes cross-talk. Frequency-temperature stability held within approximately 1 KC per degree C. throughout range of 15 to 75 degrees C. Compact in assembly, the Dumont Inputuner is easy to mount in place and readily wired to remainder of receiver.



### THE AUDIO SYSTEM

The first audio stage feeds into a Phase Inverter, which in turn feeds into a pair of 6F6, operating in push-pull, Class AB2 amplification, delivering approximately 12 watts undistorted output. This audio amplifier, plus the 12" RCA Heavy Duty PM Speaker, is designed to fully realize the audio fidelity from the FM Sound.

### PRE-WIRED & PRE-TUNED IF PICTURE & SOUND STRIP (PAT. PEND.)

Our perfected 13-tube pre-wired, pre-tuned I.F. Picture and Sound Strip has 5½ full stages of I.F. Picture amplification, with 4.25 MC bandwidth, for maximum stability and resolution—all on one chassis; two I.F. Sound Stages with Limiter and Discriminator; two Video Stages of amplification; one D.C. Restorer. The tube line-up is listed below\*



### THE LOW VOLTAGE POWER SUPPLIES . . .

To insure greater stability and regulation, with a minimum of heat, under continuous duty, two low voltage power supplies, to be wired onto one chassis have been designed into the Projection Television Assembly.

For the Vertical and Horizontal Deflection Circuits, two type 5U4G deliver 500 volts under full-wave rectification with good regulation. When the FM-Television Switch is in "FM" position, these circuits are automatically "off".

For the RF, IF, Sync and Audio circuits, one type 5U4G delivers 400 volts under full-wave rectification with good regulation.

### THE SYNCHRONIZATION & SWEEP CIRCUITS . . .

These circuits have been engineered for the best in stability, extra-steadiness and overall performance.

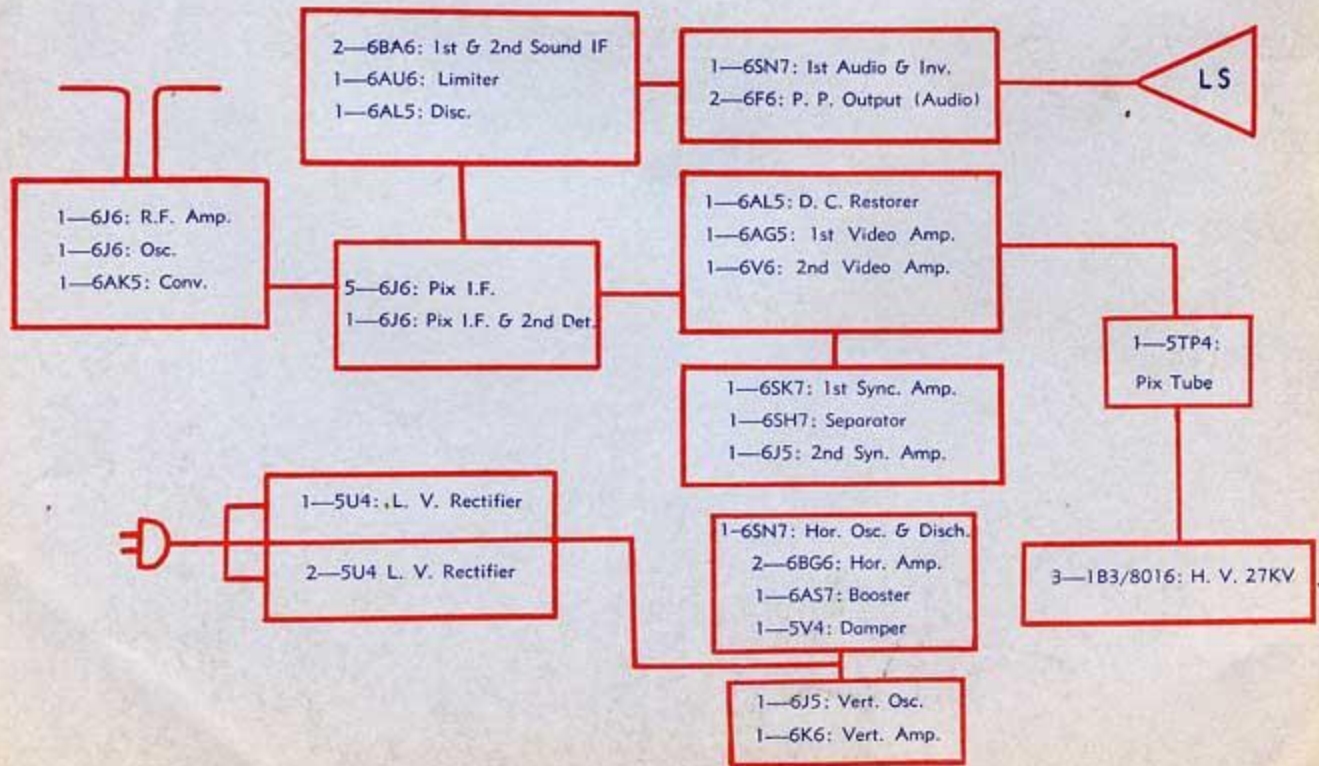
The tube line-up for these circuits is as follows:

- One 6J5—Vertical Blocking Oscillator
- One 6SN7GT—Horizontal Blocking Osc. & Disch.
- One 6K6GT—Vertical Output Amplifier
- Two 6BG6G—Horizontal Output Amplifier
- One 5V4G—Damper
- One 6AS7—Booster
- One 6SK7GT—First Sync Amplifier
- One 6SH7—Sync Separator
- One 6J5—Second Sync Amplifier.

- \*Five 6J6 — Picture I.F. Amplifier
- One 6J6 — Picture I.F. Amplifier & Detector
- One 6AG5 — First Video Amplifier
- One 6V6GT — Second Video Amplifier
- One 6AL5 — D.C. Restorer
- One 6AU6 — Limiter
- Two 6BA6 — Sound I.F. Amplifier
- One 6AL5 — Discriminator
- I.F. FREQUENCY—Audio: 21.9 MC; Picture 26.4 MC

All of the above circuits are contained on one chassis, delivered completely wired, tested, tuned and tubed, ready for installation.

● Authorized Distributor ●



**TELEVISION  
ASSEMBLY CO.**

540 BUSHWICK AVE. BROOKLYN 8, N. Y.

*Have you heard?*



## ABOUT OUR SERVICE DEALER PLAN

*Thousands of Service-Dealers all over the country have long clamored for a real money-making chance in Television . . . THIS IS IT!*

**Only TELEVISION ASSEMBLY COMPANY gives you this time-proven Custom-Built Television Merchandising Plan for real steady money-making the year 'round . . .**

**BOON TO THE SERVICE-DEALER . . .**

TELEVISION ASSEMBLY COMPANY designed its "Television Merchandising Plan" expressly to assist the Service Dealer in obtaining his fair share of the Television Profits.

**PROFITABLE RETURN FOR YOUR LABOR! . . .**

Sell your customer on the idea of a Custom-Built PROJECTION TELEVISION ASSEMBLY Receiver built by YOU. You can realize a just and reasonable profit for your work because you can set your own return for each unit you assemble and install.

**PRESTIGE IN YOUR COMMUNITY AND CUSTOMER CONFIDENCE . . .**

Your active and profitable participation in the Television Assembly Co. MERCHANDISING PLAN makes you a full-fledged Television Technician in the eyes of your community, with all the attendant business advantages.

Give personalized service, because you guarantee your own work . . . with the cooperation of your local authorized distributor and TELEVISION ASSEMBLY CO. This means that you build a more intimate business relationship with your customers, which is the foundation of every successful neighborhood retail business. Success and reputation as a Television Technician reflects upon your entire repair and retailing business. As your customers see you progress, your repair calls of all kinds will increase which means more store traffic and thus more off-the-counter sales for you.

**BASIC FORMULA FOR SUCCESS IN TELEVISION FOR THE SERVICE-DEALER . . .**

- Assembling the Projection Television Assembly — set your own return.
- Installation, Maintenance, Repair, — set your own return.

**DISTRIBUTION THROUGH NATIONAL PARTS DISTRIBUTORS!**

**ACT NOW! DON'T MISS IT!** See your local authorized distributor TODAY for full details on TELEVISION ASSEMBLY COMPANY'S "Custom-Built TELEVISION MERCHANDISING PLAN" — *THE BLUEPRINT FOR TELEVISION PROFITS FOR THE SERVICE-DEALER.*