

TELEVISION  
KITS, CABINETS



INSTRUMENTS  
COMPONENTS

**Eliminate the Variables  
in  
Television Installation  
with the TRANSVISION  
FIELD STRENGTH  
METER**

Do not depend on pictures—  
Use absolute measurements—  
Direct Meter Readings!



Improves Installations!!

Saves 1/2 the Work!!

Has numerous features and advantages, including — (1) Measures actual picture signal strength . . . (2) Permits actual picture signal measurements without the use of a complete television set . . . (3) Antenna orientation can be done exactly . . . (4) Measures losses or gain of various antenna and lead-in combinations . . . (5) Useful for checking receiver re-radiation (local oscillator) . . . (6) 12 CHANNEL SELECTOR . . . (7) Amplitudes of interfering signals can be checked . . . (8) Weights only 5 lbs. . . (9) Individually calibrated . . . (10) Housed in attractive metal carrying case . . . (11) Initial cost of this unit is covered after only 3 or 4 installations . . . (12) Operates on 110V, 60 Cycles, AC.

Model FSM-1, complete with tubes . . .

Net



**TRANSVISION  
"SERVICE  
NOTES"**

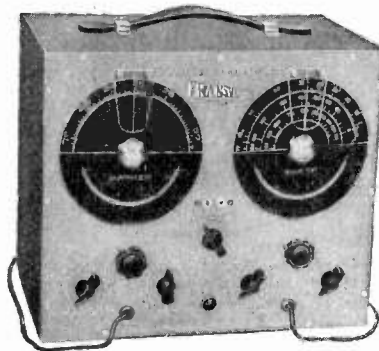
The Key to  
Successful Tele-  
vision Servicing

Transvision's "Service Notes" is a compilation of confidential Television Notes and Information, the product of experience with over 20,000 television receivers, now made available to the public.

"Service Notes" is complete with photographs and diagrams. The information is worth a small fortune. The cost is low.

Net

**TRANSVISION  
TELEVISION and FM  
SWEEP SIGNAL  
GENERATOR**



Complete frequency coverage from 0-227 MC with no band switching. . . . Sweep width from 0-12 MC completely variable. . . . Accurately calibrated built-in marker generator.

**ADDITIONAL FEATURES:** (1) Dial calibrated in frequency. . . . (2) Self-contained markers readable directly on the dial to .5% or better. (No external generator required to provide the marker signals.) . . . (3) Crystal controlled output makes possible any crystal controlled frequency from 5-230 MC. . . . (4) Plenty of voltage output—permits stage-by-stage alignment. . . . (5) Output impedance 5-125 ohms. . . . (6) Directly calibrated markers 20-30 MC for trap, sound and video IF alignment. . . . (7) RF for alignment of traps for IF channels when a DC volt meter is used as the indicating medium. . . . (8) Unmodulated RF signals to provide marker pips simultaneously with the main variable oscillator. . . . (9) Markers can be controlled as to output strength in the pip oscillator. . . . (10) Power supply completely shielded and filtered to prevent leakage. . . . (11) All active tubes are the new modern miniature type. . . . (12) Phasing control incorporated in the generator.

**TRANSVISION  
ALL-CHANNEL  
TELEVISION  
BOOSTER**

CONTINUOUS TUNING



To assure television reception in weak signal areas, or areas which are out of range of certain broadcasting stations, Transvision engineers have designed this new booster. It increases signal strength on all television channels. Tunes all television channels continuously. Can be used with any type of television receiver. Unusually high gain in upper television channels.

Model B-1 . . . . . List

**TRANSVISION Complete Line of  
TELEVISION COMPONENTS**

Essential units for building a quality television set . . . Transvision makes available a complete line of high quality parts competitively priced. Included in this line are Filter Chokes, all types of Transformers, Focus Coils, Deflection Yokes, Coils—and of course major units such as Picture Tubes, Antennas, Lenses, etc., etc.

WRITE FOR COMPONENTS FOLDER P-1

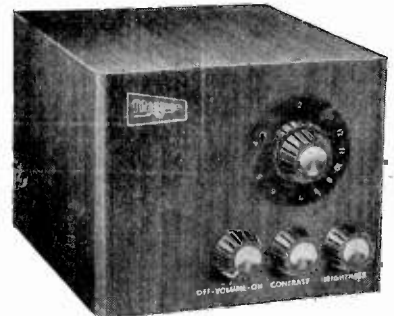
**TRANSVISION'S NEW  
REMOTE CONTROL  
UNIT — for use with  
ANY TELEVISION SET**

**OPERATES ANY TELEVISION SET  
from a DISTANCE up to 50 feet.**

Now you can sit back in your easy chair, a comfortable distance away, and operate your TV set. This new Transvision REMOTE CONTROL UNIT turns ANY SET on, tunes in stations, controls contrast and brightness, turns set off. Especially ideal for commercial installations where the TV set is inaccessible.

TUNER UNIT is a high gain, all-channel, CONTINUOUS TUNING UNIT (about 50 microvolt sensitivity).

Model TRCU Remote Control Unit with 25-ft. cable . . . . . Net  
Also available without cabinet . . . . . Net

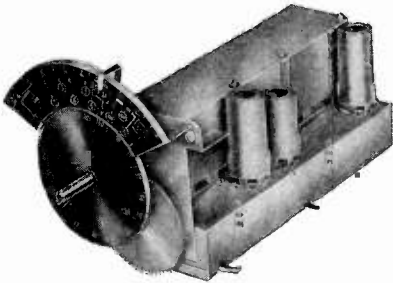


# TV-FM TUNERS ANTENNAS

# TRANSVISION

# LENSES CR TUBES

## DE LUXE TV/FM INPUTUNER MODEL IT-1



Distributed nationally,  
exclusively by Transvision

### The finest TV/FM Tuner on the market today!

Continuous Tuning on All Channels

- Covers all 12 channels, entire FM range.
- Continuously tunes from 44 to 216 mc without a break. Requires no band switching for tuning from channel to channel.
- Complete with tubes and escutcheon.  
Accessory kit available.

## 12-CHANNEL TV TUNERS CONTINUOUS TUNING

Model CT-1 (part #653), for TV channels 2 to 13, is notable for its high gain, sensitivity, excellent image rejection ratio, and CONTINUOUS TUNING feature. May be used with any 7", 10", 12", or 15" kit.

Model CT-1 TV Tuner.....Net

Model TT-2 (part #301-1 or #301-2) covers all TV channels, also FM band (88-108 mc.). Available for 7", 10", 12" or 15" kits. Specify tube size.

Model TT-2 TV/FM Tuner.....Net

## TRANSVISION 12 - Channel TV/FM TUNER, Model TF-13

Complete 12 channel TV/FM tuner. Covers all television stations and complete FM radio range from 88-108 MC. Has 1 stage of RF, three tubes (6BH6, 6AG5, 9002).

## TRANSVISION TELEVISION PICTURE TUBES



10BP4 Magnetic Deflection 10" picture tube.  
12JP4 Magnetic Deflection 12" picture tube.  
15AP4 Magnetic Deflection 15" picture tube.

## TRANSVISION PICTURE ENLARGING LENSES

Enlarge and Clarify the Pictures



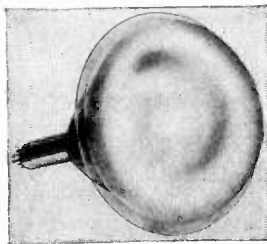
15" Picture Enlarging Lens



10" Lens (52 sq. in. picture)  
12" Lens (75 sq. in. picture)  
15" Lens (125 sq. in. picture)

All lenses are provided with mounting brackets.

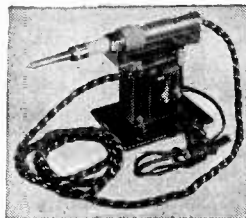
## TRANSVISION All-Angle LENSES for ALL TV SETS



Give picture sizes up to 150 sq. in. Exclusive patented feature makes image visible from wide angle. Lenses come with adapter for installation on ANY 7" or 10" picture tube, and with color kits. All Angle Lens for 7" tubes (gives 75 sq. in. picture).....Net

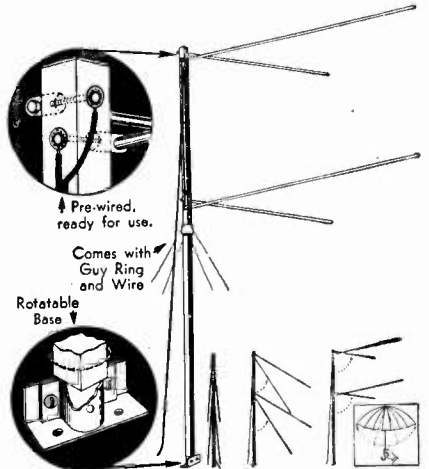
All-Angle Lens for 10" tubes (gives 150 sq. in. picture).....Net

## TRANSVISION "SOLDETRON"



FEATHERWEIGHT SOLDERING IRON  
3 Ounces—Does Job of 200 Watt Iron—  
Interchangeable Tips; No Cleaning or  
Filing; Easy to Use for Every Type of  
Soldering.

## "Flip-Up" TV ANTENNA



Pre-wired,  
ready for use.

Comes with  
Guy Ring  
and Wire

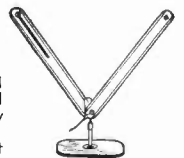
Rotatable  
Base

- PRE-ASSEMBLED, ready for use. Just "flip-up" (like an umbrella) and install.
- PRE-WIRED—just connect your lead-in to the two terminals.
- RECEIVES ALL CHANNELS.
- ALL-DIRECTIONAL; can be oriented for the weakest station in an area with assurance that all other channels will be brought in equally well.
- EXTREMELY SENSITIVE. Unusual high gain on upper channels. Ideal for fringe areas.

Completely assembled with rotatable base, 7-ft. mast, guy ring and guy wire.

Additional 7-ft. masts, to build antenna up to 19 ft., at small extra cost.

## INDOOR TV ANTENNA



"TELEBIRD"

For Ideal Reception on All Channels - All-directional Transvision's sensational new "Telebird" is the ideal indoor antenna. Excellent reception on all channels. Eliminates "ghosts". Install it in a jiffy; place it on window sill or anywhere in the room. Will out-perform many outdoor antennas. When not in use, just fold it up and put it away.

## VISION FILTER

For 7", 10" or 12" sets. For 10BL or 15" sets.

## MAGIC EYE KIT

Magic eye kit—for 12/15" deluxe kits only. Includes eye, assembly, escutcheon, instructions.

All Prices on Application

# Philmore

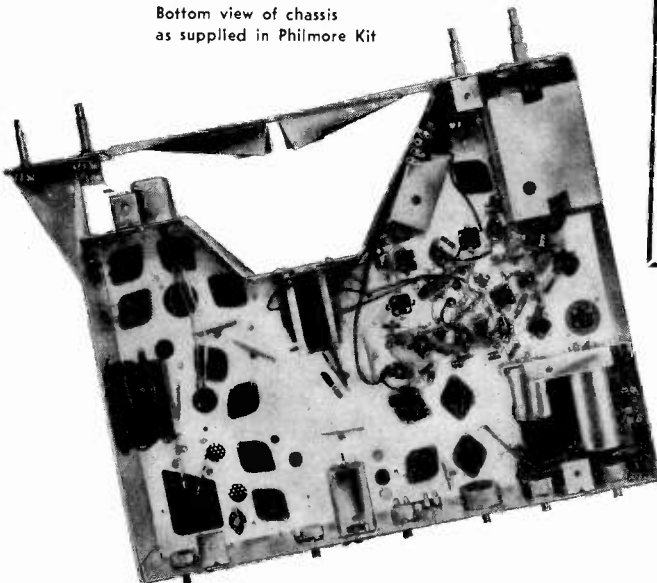
## Pre-Aligned TELEVISION KIT

**TUNER, VIDEO and  
SOUND CHANNELS**  
are completely wired  
and **PRE-ALIGNED** by  
**Philmore**

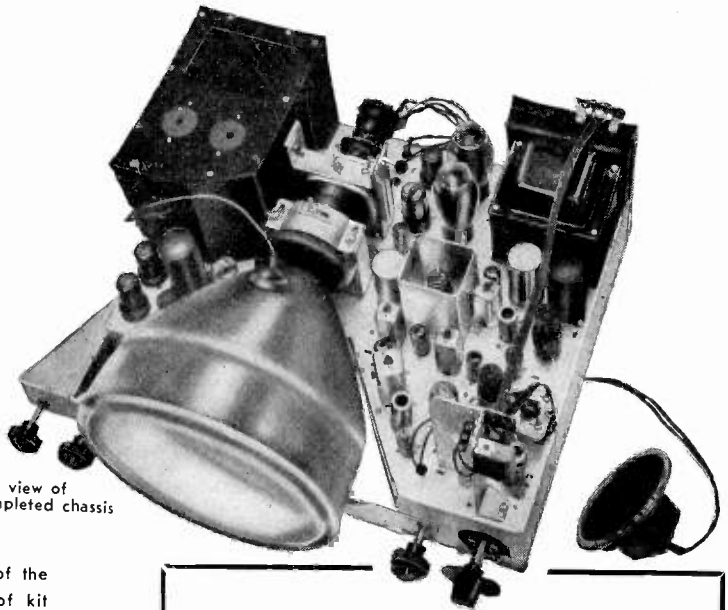
All components are mounted  
by Philmore

Experience has convinced us that pre-alignment of the vital channels is the only satisfactory method of kit assembly. That is why the Tuner, Video and Sound channels are completely wired and fully aligned in our laboratory. We also assemble to the chassis transformers, electrolytic condensers, tubes, high voltage shields, voltage divider shield, chokes. Sockets and other parts are riveted to the chassis which insures good contacts and eliminates any possibility of loose connections.

Bottom view of chassis  
as supplied in Philmore Kit



Top view of  
completed chassis



**Similar to famous RCA 630TS  
and 830TS Circuits**

**Designed for 10" 12" 15" 16"  
PICTURE TUBES**

**SIMPLIFIED STEP-BY-STEP INSTRUCTIONS**  
36 page manual of instructions on assembly and operation generously illustrated. Six full scale lithographed schematic and pictorial diagrams. All small parts packaged in individual envelopes, clearly numbered and identified on blueprints.

When balance of simple wiring is completed, no further alignments are necessary.

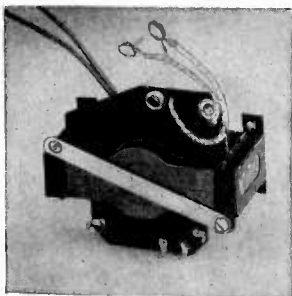
**Features:**

- New, **WIDER-SCREEN** television for **BIGGER** pictures on all size tubes.
  - 30 RCA tubes (inc. rect. and video).
  - New, improved daylight viewing.
  - Increased voltage power pack.
  - Long range reception.
  - Complete **ALL-channel** tuning.
  - PM Speaker with choke (better tone and volume—no hum).
  - Special mounting bracket for 16" tube available.
  - Ideal for custom-built installations.
- (Philmore TV receivers also available completely wired and assembled.)

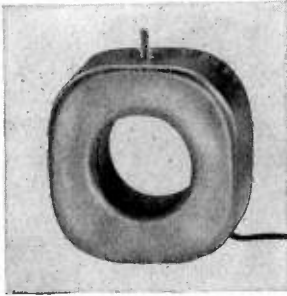
MFD. BY PHILMORE MANUFACTURING COMPANY, INC.

**When ALIGNMENT is BUILT-IN trouble is built out**

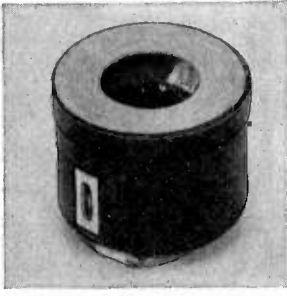
# Philmore TV Replacement Parts



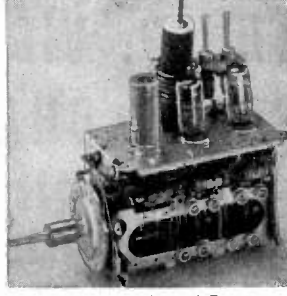
T118 — Horizontal Deflection Output Transformer



T122 — Focus Coil



T121 — Deflection Yoke



T120 — 12 Channel Tuner

## COILS AND TRANSFORMERS

Part No.	Description	List Price
T100	1st and 2nd Sound I.F. Transformers. Interchangeable with RCA type 201K1.	2.00 ea.
T101	1st Pix I.F. Transformer. Interchangeable with RCA type 202K2.	2.20 ea.
T102	2nd Pix I.F. Transformer. Interchangeable with RCA type 202K3.	1.70 ea.
T103	Sound Discriminator Transformer. Interchangeable with RCA type 203K1.	2.60 ea.
T104	Horizontal (Synch.) Discriminator Transformer. Interchangeable with RCA type 208T8.	2.60 ea.
T105	3rd and 4th Pix Coils. Interchangeable with RCA type 202L1.	.50 ea.
T106	Cathode Trap Coil. Interchangeable with RCA type 202K4.	2.00 ea.
T107	Video Peaking Coil, 180 MH. Shunt Resistance 39,000 Ohms. Interchangeable with RCA type 203L1.	.35 ea.
T108	Video Peaking Coil, 250 MH. Shunt Resistance 10 Megohms. Interchangeable with RCA type 203L2.	.30 ea.
T109	Video Peaking Coil, 120 MH. Shunt Resistance 22,000 Ohms. Interchangeable with RCA type 203L3.	.30 ea.
T110	Video Peaking Coil, 93 MH. Shunt Resistance 10 Megohms. Interchangeable with RCA type 203L4.	.30 ea.
T111	Filament Chokes, .8 MH. Interchangeable with RCA type 204L1.	.15 ea.
T112	Width Control Coil. Interchangeable with RCA type 201R1.	.70 ea.
T113	Horizontal Linearity Control Coil. Interchangeable with RCA type 201R3.	.75 ea.
T114	Audio Single Output Transformer (speaker) for 6K6 Tubes.	1.35 ea.
T115	Power Transformer, 295 MA. Fully Shielded. Interchangeable with RCA type 201T6.	26.50 ea.
T116	Vertical Deflection Output Transformer. Interchangeable with RCA type 204T2.	4.75 ea.
T117	Vertical Oscillator Transformer (Blocking). Interchangeable with RCA type 208T2.	2.25 ea.
T118	Horizontal Deflection Output Transformer. Interchangeable with RCA type 211T1 or 211T3.	9.00 ea.
T121	Deflection Yoke, 8.3 MH. Vertical 50 MH. Interchangeable with RCA type 201D1.	7.50 ea.
T122	Focus Coil, 247 Ohms D.C. Resistance. Interchangeable with RCA type 202D1.	6.00 ea.
T123	Ion Trap Beam Bender P.M. (Double Magnet). Interchangeable with RCA types 203D1 or 203D3.	1.90 ea.

## CERAMIC TUBULAR CONDENSERS TYPE GP

Part No.	Description	List Price
C137	10 Mmfd. 10% Tolerance.	.20 ea.
C197	51 Mmfd. 10% Tolerance.	.20 ea.
C181	56 Mmfd. 10% Tolerance.	.20 ea.
C166	82 Mmfd. 10% Tolerance.	.20 ea.
C164	1200 Mmfd. Tolerance Not Less Than Rated Capacity.	.20 ea.
C112	1500 Mmfd. Tolerance Not Less Than Rated Capacity.	.20 ea.
C200	6800 Mmfd. Tolerance Not Less Than Rated Capacity.	.20 ea.

## MICA CONDENSERS

Part No.	Description	List Price
C116	270 Mmfd. 500 W.V.—1000 D.C. Volts Test	.20 ea.
C176	390 Mmfd. 500 W.V.—1000 D.C. Volts Test	.20 ea.
C161	470 Mmfd. 500 W.V.—1000 D.C. Volts Test	.20 ea.
C179	680 Mmfd. 500 W.V.—1000 D.C. Volts Test	.25 ea.
C154	4700 Mmfd. 500 W.V.—1000 D.C. Volts Test	.55 ea.
C187	500 Mmfd. 10,000 W.V.—High Voltage Filter Condenser	1.10 ea.

NOTE: All Condensers are rated for 85°C Operation.

## ELECTROLYTIC CONDENSERS

Part No.	Description	List Price
(in Round Aluminum Cans)		
C220	40+10+80 Mfd. — 450—450—150 Volts — With Cardboard Insulated Tube	2.75 ea.
C221	40+40+10 Mfd. — 450—450—450—Volts	3.00 ea.
C222	80+50 Mfd. — 450—50 Volts — With Cardboard Insulated Tube	3.00 ea.
C223	40+10+10 Mfd. — 450—450—350 Volts	2.75 ea.
C224	20+80 Mfd. — 450—350 Volts	3.00 ea.
C-225	250+1000 Mfd. — 10—6 Volts	2.25 ea.
H125	Bakelite Insulating Plates for above condensers (set of 4)	.15 Set

NOTE: All Condensers are rated for 85°C Operation.

## VOLUME CONTROLS

Part No.	Description	List Price
R131	Picture and Sound—10,000 Ohms and 1 Megohm Dual Control with Power Switch	2.00 ea.
R152	Brightness Control—50,000 Ohms	.70 ea.
R168	Vertical and Horizontal Hold—1 Megohm and 50,000 Ohms Dual Control.	1.75 ea.
R169	Height Control—2.5 Megohm	.65 ea.
R178	Vertical Linearity Control—5,000 Ohms	.65 ea.
R181	Vertical Centering Control—20 Ohms, Tapped Center, Wirewound.	1.25 ea.
R184	Focus Control—1500 Ohms, Wirewound	1.80 ea.
R187	Horizontal Drive Control—20,000 Ohms	.65 ea.
R211	Horizontal Centering Control—20 Ohms, Wirewound	1.30 ea.

## WIREWOUND RESISTORS AND VOLTAGE DIVIDERS

Part No.	Description	List Price
R200	5,000 Ohms, 5 Watt	.50 ea.
R185	1360 Ohms—17 Watt and 250 Ohms—10 Watt	1.25 ea.
R209	5300 Ohms—20 Watt, 500 Ohms—2 Watt and 500 Ohms—2 Watt	1.50 ea.
R186	6750 Ohms 3.2 Watt, 12 Ohms—1/2 Watt and 93 Ohms—4 Watt	1.25 ea.

## TUNER UNITS, KNOBS AND ESCUTCHEONS

Part No.	Description	List Price
T120	13 Channel Tuner, complete with 3—6J6 Tubes. Pre-Aligned	60.00 ea.
KN101-R	Tuner Knob with Springs (set of two knobs)	.70 Set
KN102-R	Picture and Sound Knobs with Springs (set of two knobs)	.40 Set
KN103-R	Vertical Hold and Horizontal Hold Knobs with Springs (set of two knobs)	.40 Set
KN104-R	Brightness Knobs with Springs (set of two knobs)	.40 Set
KN105-R	13 Channel Escutcheon Plate and Spring	1.10 ea.

NOTE: Above knobs are to be used with the RCA 13 Channel Tuner.  
KN106—Set of Decals for either the 12 Channel or 13 Channel Tuner. .20 Set

## ADDITIONAL TELEVISION ITEMS

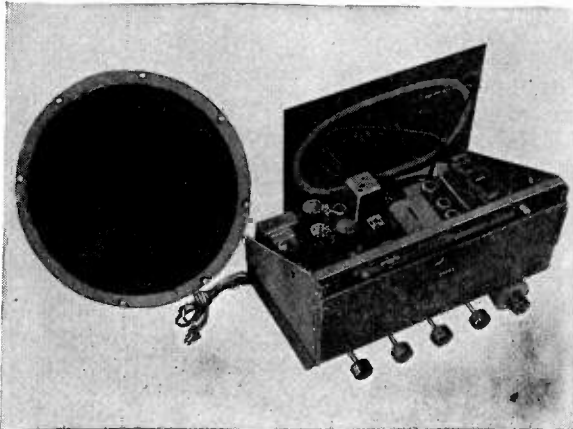
Part No.	Description	List Price
S105	High Voltage Rectifier Socket Assembly	1.25 ea.
S106	Duo-Decal Kinescope Sockets with 5-19" Leads	.90 ea.
301	300 Ohm Twin Connecting Transmission Line, 1000 ft. Spools.	40.00 M ft.
302	High Voltage Lead 23" Long with Clip for Connecting to Kinescope Tube.	.75 ea.

## BRACKETS AND HARDWARE ITEMS

Part No.	Description	List Price
H101	Bracket for Hold Control	.90 ea.
H102	Bracket for Tuner Shaft Bearing and Bake-H103 life Bearing for Tuner Shaft	.50 Set
H104	Brackets for Mounting Chassis to Cabinet (set of 4 brackets)	.75 Set
H105	Bracket for Mounting Deflection Yoke	.80 ea.
H106A	Bracket for Mounting Focus Coil (upper)	.35 ea.
H106B	Bracket for Mounting Focus Coil (lower)	.60 ea.
H106D	Studs Threaded for Focus Coil Bracket (set of 2)	.25 Set
H107	Bracket for Mounting Speaker	.90 ea.
H109-A-B-C-D	High Voltage Shield Assembly consisting of Transformer Mounting Base, Side Cover, Top Cover and Back Cover	8.00 Set
H109E	6 foot Power Supply Cord with Safety Break Female Connector	.90 ea.
H111A	Shield for Voltage Divider	1.50 ea.
H111B	Cover for Voltage Divider Shield	1.00 ea.
H112	Sub-Chassis Plate for Mounting Electrolytic Condensers	1.25 ea.
H114	Shield for Cathode Trap Coil	1.25 ea.
H115	Safety Break Male Connector for AC Input Supply	.30 ea.
H116	Tuner Shield	.75 ea.
H117	Shield for Discriminating Sound Transformer	.35 ea.
H132	Threaded Round Head Screws 4 1/2" long (set of 2)	.30 Set
H135	Ring Corona Wire	.25 ea.
H136	Brackets for Mounting S105 H.V. Socket Assembly (set of 4 brackets)	.25 Set
H137	Bracket for Width Control	.50 ea.
H142	Bracket for Kinescope Tube	1.50 ea.
T125	T.V. Chassis, formed and punched. Cadmium plated for Philmore Television Sets and Kits or any RCA 630 Type Set.	10.00 ea.

Additional items not listed are available. Please write for prices.

PHILMORE MANUFACTURING COMPANY, INC.

**ESPEY**MANUFACTURING CO. INC.  
NEW YORK 21, NEW YORK  
ESTABLISHED 1928**Model 511 — AM-FM RADIO CHASSIS***A Low-Priced Replacement Chassis.  
Fits All Types of Console Cabinets.***DEALER - SERVICEMAN.....Net \$98.00**

**I. Model 511** is a Superheterodyne AM-FM Radio Receiver chassis designed to operate on: 105/125 volts AC; 50/60 cycles. Power consumption: 85 watts.

**II. FEATURES:** 1. AC Superheterodyne AM-FM receiver. — 2. Improved Frequency Modulation Circuit, Drift Compensated. — 3. 12 Tubes plus Rectifier and Tuning Indicator. — 4. 3 Dual Purpose Tubes give added performance. — 5. Treble Tone Control. — 6. 6-Gang Tuning Condenser. — 7. Full-range Bass Tone Control. — 8. High-Fidelity AM-FM Reception. — 9. Automatic Volume Control. — 10. 13-watt (maximum) Push-Pull Audio Output. — 11. 12-inch PM Speaker with Alnico V Magnet, 25 watts. 12. — Indirectly Illuminated "Slide-Rule" Dial. — 13. Antenna for AM and Folded Dipole Antenna for FM reception. — 14. Provisions for external antennas. — 15. Wired for Phonograph Operations. — 16. Licensed under RCA patents. — 17. RMA listed. — 18. Multi-tap Output Transformer, 3.2, 8 and 500 ohms.

**III. DESCRIPTION:** Model 511 receiver features the latest in postwar engineering design. The FM circuit includes a tuned RF Amplifier stage, 2 stages of high gain Intermediate Frequency Amplification and an advanced design Ratio Detector circuit which provides low noise level between stations, freedom from AM interference, ease of tuning and ample gain for satisfactory operation with an indoor antenna in most urban locations. The AM circuit includes a Tuned RF Amplifier for improved selectivity and freedom from spurious responses. High Fidelity reproduction on FM and AM is insured through well-engineered circuits and the use of high quality parts. The tuning ranges are: Standard Broadcast — 535 to 1720 Kc. FM Band — 88 to 108 Mc.

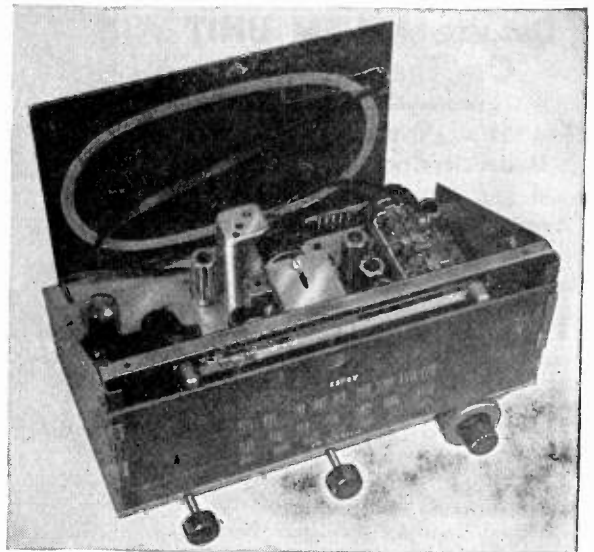
The large easy-to-read "slide-rule" type dial is illuminated by two pilot lights which also provide illumination for the red plastic dial pointer. A high ratio flywheel drive on the tuning condenser provides smooth tuning throughout the range of the receiver.

The receiver has two antennas; a Loop antenna for Standard Broadcast and a Folded Dipole antenna for the FM band. Provision is made for connecting an external Phonograph Pickup to the high-fidelity audio amplifier system of the receiver. The Multi-tap output transformer will permit the use of Most Popular Type Hi-Fidelity Speakers and dividing networks, or to match a standard 500-ohm line for Remote installations.

**IV. TUBE COMPLEMENT:** 1 AM-RF Amplifier tube. — 1 FM-RF Amplifier tube. — 1 AM Oscillator, Mixer tube. — 1 IF Amplifier tube. — 1 FM Detector Driver tube. — 1 FM Detector tube. — 1 FM Oscillator tube. — 1 FM Mixer tube. — 1 AM Detector, Audio Amplifier tube. — 1 Audio Amplifier-Inverter tube. — 2 Push-Pull Power Amplifier tubes. — 1 Rectifier tube. — 1 Electron Ray Tuning Indicator tube.

**V. ACCESSORIES:** The Model 511 chassis is supplied ready to operate, complete with tubes, antennas, speaker and all necessary hardware for mounting in a table cabinet or console, including escutcheon.

**VI. CHASSIS DIMENSIONS AND WEIGHT:** Chassis Dimensions: 13½" wide x 8½" high x 10" deep. Carton Dimensions: (2 units) 20" x 14¼" x 10¾". Net Weight: 16½ lbs. each.

**Model 512 — AM-FM TUNER***Outstanding AM-FM TUNER, self-powered  
for use with all types of Audio Amplifiers.***DEALER - SERVICEMAN.....Net \$82.15**

**I. Model 512** Superheterodyne AM-FM Radio Tuner chassis is designed to operate on: 105/125 volts AC; 50/60 cycles. Power Consumption: 66 watts.

**II. FEATURES:** 1. AC Superheterodyne AM-FM tuning circuit. — 2. Improved Frequency Modulation Circuit, drift compensated. — 3. 9 Tubes plus Rectifier and Tuning Indicator. — 4. 3 Dual Purpose Tubes give added performance. — 5. Automatic Volume Control. — 6. 6-Gang Tuning Condenser. — 7. High-Fidelity AM-FM Reception. — 8. Indirectly Illuminated "Slide-Rule" Dial. — 9. Antenna for AM and Folded Dipole Antenna for FM Reception. — 10. Provisions for external antennas. — 11. Wired for Phonograph Operations. — 12. Licensed under RCA patents. — 13. RMA listed. — 14. High and Low Level Audio Output. — 15. Utility Socket provides power for magnetic reluctance pickup pre-amplifier.

**III. DESCRIPTION:** Model 512 Tuner features the latest in postwar engineering design. The FM circuit includes the tuned RF Amplifier stage, 2 stages of high-gain Intermediate Frequency Amplification, and an advanced design Ratio Detector circuit which provides low noise level between stations, freedom from AM interference, ease of tuning and ample gain for satisfactory operation with an indoor antenna. The AM circuit includes a Tuned RF Amplifier for improved selectivity and freedom from spurious responses. High-Fidelity reproduction on FM and AM is insured through well-engineered circuits and high-quality parts.

Line Voltage is made available at two outlets at the rear of the tuner; these are actuated by the tuner on-off switch. To facilitate custom installations, B+ and Heater Voltages are made available at a utility socket mounted in the tuner. This is suitable for powering auxiliary pre-amplifiers as used with variable reluctance type pickups. Holes for 2 additional controls are available for the convenience of the user. The tuning ranges are: Standard Broadcast — 535 to 1720 Kc. FM Band — 88 to 108 Mc. The receiver has two antennas; a Loop antenna for Standard Broadcast and a Folded Dipole antenna for the FM Band. Provision is made for connecting an external phonograph pick-up to the tuner audio system, for use with all types of amplifier installations. Two audio output channels are provided, one at high level, the other at low level; both are controlled by the tuner volume control.

**IV. TUBE COMPLEMENT:** 1 AM-RF Amplifier tube. — 1 FM-RF Amplifier tube. — 1 AM Oscillator, Mixer tube. — 1 FM Detector Driver tube. — 1 IF Amplifier tube. — 1 FM Detector tube. — 1 FM Oscillator tube. — 1 FM Mixer tube. — 1 AM Detector, Audio Amplifier tube. — 1 Electron Ray Tuning Indicator tube. — 1 Rectifier tube.

**V. ACCESSORIES:** Model 512 chassis is supplied ready to operate, complete with tubes, antennas, and all necessary hardware for mounting in a table cabinet or console, including escutcheon.

**VI. CHASSIS DIMENSIONS AND WEIGHT:** Chassis Dimensions: 13½" wide x 8½" high x 9" deep. Carton Dimensions: (2 units) 20" x 14¼" x 10¾". Net Weight: 14 lbs.



**ESPEY**MANUFACTURING CO. INC.  
NEW YORK 21, NEW YORK

ESTABLISHED 1928

## Lowest Priced DeLuxe AM-FM UNIT On the Market!

Model 513 — AM-FM DeLuxe TUNER  
Dealer-Serviceman . . . . Net \$ 78.60

Model 514 — DeLuxe Audio  
Amplifier, 25 Watts  
Dealer-Serviceman . . . . Net \$ 38.60

Alnico V PM Speaker, 12",  
25 Watts  
Dealer-Serviceman . . . . Net \$ 10.35

**TOTAL—Dealer-Serviceman Net \$127.55**

### Model 513

#### I. FEATURES:

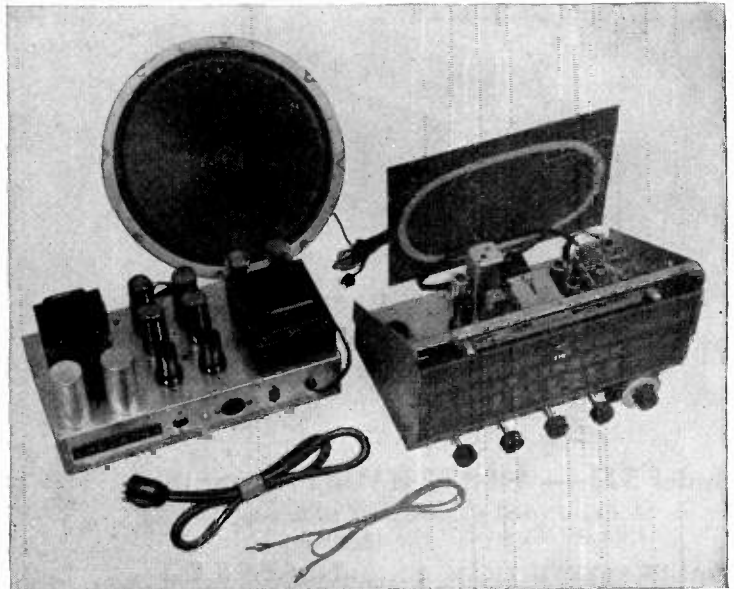
1. Superheterodyne AM-FM circuit.
2. Improved Frequency Modulation Circuit, stabilized against drift.
3. 10 Tubes plus Tuning Indicator.
4. Tuned RF Circuits on AM and FM.
5. 6-Gang Variable Tuning Condenser.
6. Automatic Volume Control.
7. Full Range Bass Boost Control.
8. Full Range Treble Control.
9. Indirectly Illuminated "Slide-Rule" Dial.
10. Fly Wheel Tuning Drive.
11. Antenna for AM and Folded Dipole Antenna for FM.
12. Provision for external antennas.
13. Wired for Phonograph Operation.
14. Utility Socket provides power for magnetic reluctance pickup pre-amplifier.
15. Licensed under RCA.
16. RMA listed.

II. Model 513 AM-FM Tuner employs 10 tubes plus a tuning indicator tube in a superheterodyne circuit. It is designed to operate from an external power supply and feed into an external audio amplifier. (Model 514 DeLuxe Power Supply-Audio Amplifier is specifically designed to work in conjunction with the Model 513 Tuner.) The power requirements for the tuner are 6.3 volts AC or DC at 3.5 amperes, and 200 volts DC at 60 milliamperes.

III. DESCRIPTION: The Model 513 Tuner incorporates the latest developments in engineering design. It is intended for the discriminating listener. Separate, Tuned RF stages are employed on both the AM and FM bands to provide extreme sensitivity and minimize spurious responses. The FM circuit also includes two stages of high-gain intermediate frequency amplification to drive a ratio detector circuit of advanced design. AM: 535 Kc. to 1720 Kc. — FM: 88 Mc. to 108 Mc.

IV. TUBE COMPLEMENT: 1 6BA6 AM-RF Amplifier tube. — 1 6BA6 FM-RF Amplifier tube. — 1 6BE6 AM Converter tube. — 1 6BE6 FM Mixer tube. — 1 6C4 Oscillator tube. — 1 6SG7 AM-FM IF Amplifier tube. — 1 6SH7 FM-Ratio Detector Driver tube. — 1 6J5 AM-Detector AVC tube. — 1 6SQ7 AM-FM 1st Audio tube. — 1 6AL5 FM Ratio Detector tube. — 1 6U5 Tuning Detector tube.

V. CHASSIS DIMENSIONS: 13½" wide x 8½" high x 9" deep. Weight: 9½ lbs.



Model 514 Amplifier & Power Supply.

Model 513 AM-FM Tuner.

### Model 514

I. Model 514 DeLuxe Power Supply and Audio Amplifier contains 6 tubes, plus 2 rectifiers in a high gain push-pull amplifier circuit. It is designed specifically for use in conjunction with the Model 513 Tuner, but may be used wherever a high quality audio amplifier may be required. Power requirements are: 105/125 volts AC; 50/60 cycles; power consumption: approximately 1.50 watts.

#### II. FEATURES:

1. Parallel Push-Pull Output Circuit.
2. Self-Balanced Phase Inverter System.
3. Extended Range High-Fidelity Response.
4. Inverse Feedback Circuit.
5. 6 Tubes plus 2 Rectifiers.
6. Output Impedance selective for any speaker requirement (4 to 500 ohms).
7. License under RCA.
8. RMA listed.

III. DESCRIPTION: The Model 514 Power Supply-Audio Amplifier employs the best in proven engineering design. Six tubes are incorporated in a balanced phase inverter parallel push-pull amplifier. By the use of an inverse feedback circuit, high-fidelity performance is obtained.

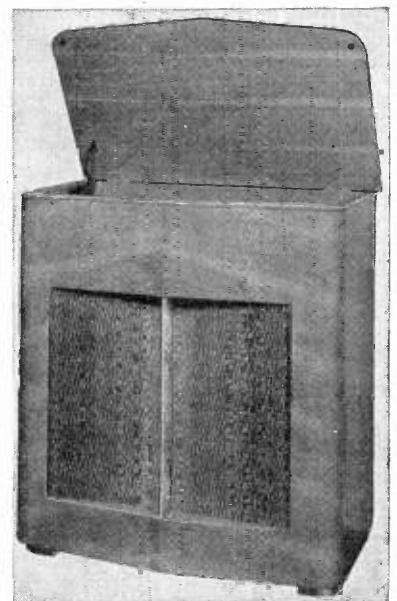
IV. TUBE COMPLEMENT:  
2 6J5 Audio Driver tubes. —  
4 6V6 Audio Output tubes.  
— 2 5Y3 Rectifier tubes.

V. 13½" wide x 7½" high x  
7" deep. Weight 18 lbs.

### Model 243 Console Cabinet

Dealer-Serviceman . . . Net \$53.50

Modernistic, exquisitely finished limed walnut Console Cabinet. Furnished with panels to house ESPEY chassis and standard record changers.



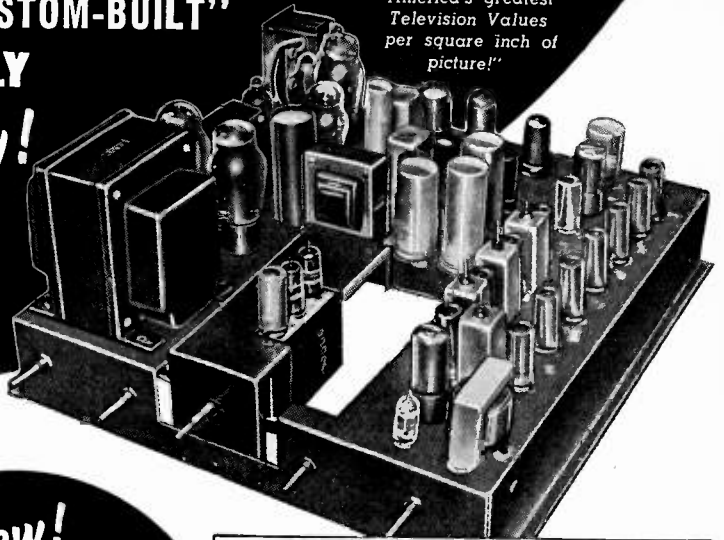
Model 243 — Open

Build the finest proven "CUSTOM-BUILT"  
TELEVISION ASSEMBLY

*Faster!  
More Economically!*  
when you build with . . .

TELEVISION  
ASSEMBLY CO.

"America's greatest  
Television Values  
per square inch of  
picture!"



*New!*  
**Super-Simplified**  
wiring and assembly  
**INSTRUCTIONS!**

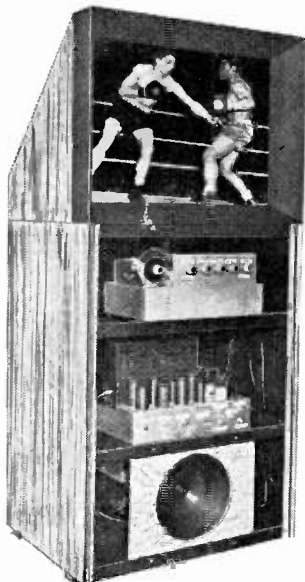
—The most explicit, easiest-to-follow,  
most elaborately detailed  
instructions in television—  
that even the layman  
can follow.

CABINETS AND STANDS avail-  
able with all direct view units.  
Write for literature.

**Exclusive**  
T.A.C. "VIVIDeo"  
**feature!**

Prewired, pretuned  
and tubed I.F. sound  
and video strip (pat-  
ents pending). An  
exclusive T. A. C. fea-  
ture developed by  
our own research. All  
on one chassis.

**MODEL P-520 . . . 520 SQ. IN. PICTURE  
PROJECTION TELEVISION ASSEMBLY**



• Bausch & Lomb F. 1.9 Lens • Eastman  
Kodak Screen • DuMont Inputuner •  
37 R.C.A. Tubes • Pre-Wired & Pre-  
Tuned Picture I.F. & Sound I.F. • Pre-  
Wired 30 K.V. Tripler Fly Back Power  
Supply • Automatic Gain Control •  
Aluminum Coated Top Mirror • Metal  
Rack • Specially Designed Hood and  
Picture Frame Supplied • STP4 Pro-  
jection Tube • 12" R.C.A. High Fidelity  
Speaker • Two Low Voltage Power  
Supplies.

**MODEL P-520** \$76950\*  
Dealer's net

**MODEL P-520W** \$89500\*  
Dealer's net

The above unit completely wired and  
ready to install.

Front and rear panels optional  
at additional cost.

TELEVISION  
ASSEMBLY CO.

540 BUSHWICK AVE., BROOKLYN 6, N. Y.

**Champion Models**  
**20" DIRECT-VIEW MODEL**  
with DuMont Inputuner and 20" DuMont Tube

213 SQUARE INCH PICTURE! Prewired Voltage  
Doubler 14KV power supply, Pre-wired "VIVIDeo"  
I.F. picture and sound strip (Pat. Pending). ALL  
channels TV plus ALL FM radio. Continuous  
tuning. DuMont Inputuner is Prewired. Delivered  
complete with all components and 30 RCA tubes  
plus 20-inch DuMont C.R. tube.

**MODEL F-201C** Dealer's net **\$56675\***

**"M" SERIES STANDARD and CHAMPION**  
**Direct-View Models**  
**for 10" CR TUBES**

**STANDARD MODEL**

29 tubes, including 13-tube "VIVIDeo" I.F. picture  
and sound strip (Pat. Pending). This portion com-  
pletely wired, tested and aligned. Prewired,  
standard tuner ready to use. Handles ALL  
channels.

**MODEL M-101S** Less C.R. Tube **\$16950\***  
Dealer's net

**CHAMPION MODEL**

Same as above except that DuMont Inputuner re-  
places Standard Tuner. Gets ALL channels TV  
—PLUS all channels of FM radio.

**MODEL M-101C** Less C.R. Tube **\$20950\***  
Dealer's net

Write for literature on our complete line of 10"  
12"-15" standard and champion assemblies.

**T. A. C. GUARANTEE**

All components are of the finest  
quality and are fully guaranteed  
under the Standard RMA Guarantee.  
All TAC Assemblies are guaranteed  
to operate when assembled accord-  
ing to directions.

Distributed only through  
**NATIONAL PARTS DISTRIBUTORS**  
Write for the source nearest to you

\*PRICES 5% HIGHER WEST OF THE MISSISSIPPI

# VISION RESEARCH LABORATORIES INCORPORATED

Research Laboratories



87-50 LEFFERTS BLVD.

RICHMOND HILL • NEW YORK

## SPECIALISTS IN TELEVISION



### TELEVISION ANTENNA AMPLIFIER Model TVA

For improved television reception in fringe areas and indoor antenna installations. Model TVA contains two type 6AK5 special high

frequency tubes in a unique dual amplifier circuit. Antenna connects through automatically when booster is turned off thus providing normal reception. Supplied complete with tubes in attractive walnut or mahogany cabinet ..... \$28.50 List\*



### TELEVISION ANTENNA AMPLIFIER Model TVX

Similar to Model TVA except for extra stage of amplification on the high frequency channels. Model TVX is popular for installations

that require unusual gain in the high frequency TV channels (7-13). Complete with instructions.

\$37.50 List\*



### DE LUXE TELEVISION PREAMPLIFIER Model TVZ

A three stage gang tuned booster for special installations. Especially useful in extreme fringe areas where quiet noise conditions prevail.

Model TVZ contains 3 type 6AK5 tubes in a special patent applied for inductance-capacity tuning system. Housed in walnut or mahogany cabinet with illuminated dial ..... \$54.50 List\*

### SWEEP GENERATOR TSW-50

One of the first popularly priced broad band sweep generators on the market. The TSW-50 employs an electro mechanical type of sweep circuit providing for excellent linearity and wide sweep width. Frequency range from 4 to 220 mc, sweep width range 500 kc to 12 mc. Supplied complete with tubes and cables, housed in an attractive grey crackle cabinet with etched aluminum front plate ..... \$68.50 Net



### TELEMARKER Model TM-100



An absorption type marker unit for use in conjunction with the TSW-50 or similar sweep signal generators, as a frequency

marker on the visual alignment trace.

Model TM-100 is connected externally to the sweep generator output lead, covers a frequency range of from 9.5 to 28 mc. Each telemarker is individually calibrated, housed in an attractive grey crackle cabinet with etched aluminum dial and furnished complete with connecting cables ..... \$12.50 Net

### FM TELETUNER

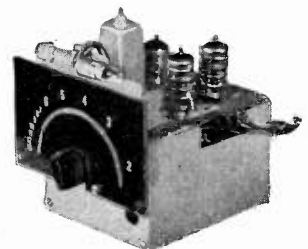
A novel converter unit that adds FM reception to your TV receiver. The FM Teletuner connects in series with the TV antenna providing FM reception when receiver is tuned to an unused TV channel (2 or 3). Antenna connects through when tuner is off so as not to effect normal TV reception. Will work on any TV set that does NOT use an intercarrier circuit



\$29.95 List\*

### FRONT END TUNER Model TF 701

A unique and compact continuous type television front end tuner featuring a revolutionary method of inductance-capacity variation. Model TF-701 may be used whenever application requires a continuous type tuning system. Contains 6AK5 RF amplifier, 6AK5 mixer, 6C4 oscillator. Each unit supplied completely aligned with calibrated, illuminated dial, complete with technical data but less 6AG5 and 6AK5.





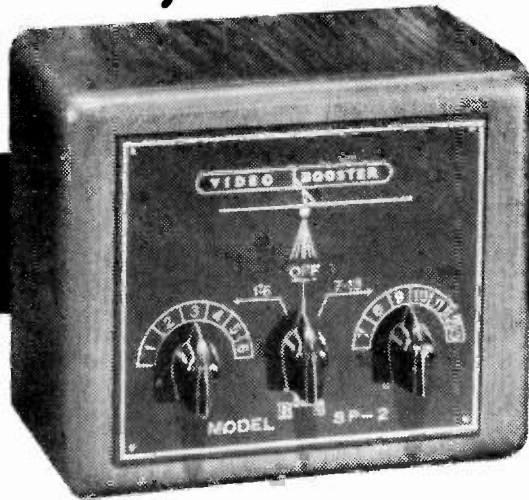
● ENGINEERS ● JOBBERS ● SERVICEMEN

all agree: **RMS VIDEO ANTENNA BOOSTER**

gives

**OUTSTANDING PERFORMANCE!**

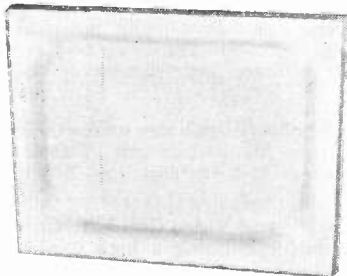
**MODEL SP-2 \$37.50 LIST**  
for ALL CHANNELS



- ★ Boosts weak station to give you clear, easy to look at pictures.
- ★ Pulls in distant stations with a gain of SIX to TEN TIMES in signal strength!
- ★ Cuts down off-channel interference.

- ★ Just plug in to work, it has a self contained power supply.
- ★ For most local installations any simple indoor aerial in conjunction with RMS VIDEO ANTENNA BOOSTER will give you Television Picture reception as clear as that obtainable with an outdoor antenna!

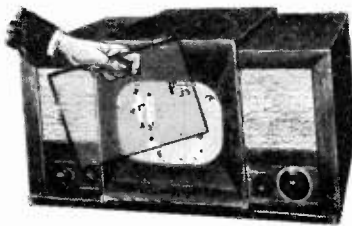
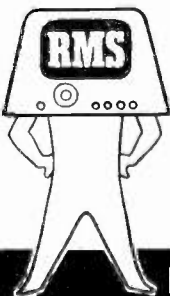
**RMS TELEVISION ACCESSORIES**



**TRANSPARENT UNBREAKABLE PLASTIC MASKS**  
for Television Tubes

No.	For Picture Tubes	List Price Each
210	10"	\$ 9.00
212	12"	9.85
213	12½"	9.85
215	15"	16.00
216 (for new 16" metal picture tube)		26.85
220	20"	35.60

Unbreakable plastic, one piece construction. Crystal clear for perfect vision, contour-designed to fit all types of television picture tubes.

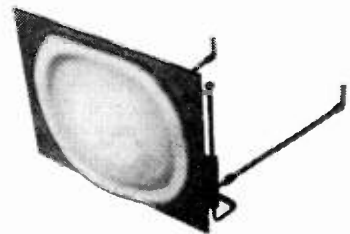


**GLAREPROOF TRANSPARENT FILTERS**  
for Television Sets  
no glare - no headache  
no eyestrain

Can be mounted in any television cabinet, in front of the picture tube. It positively reduces glare and gives image much sharper, clearer definition.

Available in Blue or smoke transparency. Specify when ordering.

No.	For Picture Tubes	List Price Each
307	7"	\$1.13
310	10"	1.38
312	12"	1.88
315	15"	3.14



**TELEVISION IMAGE ENLARGER LENS**

Universal Enlarger for 7" and 10" picture tubes. Can be mounted on table and console models.

- **Shallow Concave Surface**—for minimum image distortion
- **Extremely High Magnification** of any television picture

Sturdily mounted on adjustable brass tubing. Can be moved back and forth, up or down with greatest ease. Does not have to be attached to television receiver. No tools required to set up.

Model ML-710 Clear \$24.25 list  
Model ML-710B Blue Plastic 24.85 list

You are invited to write for catalog #215-U, illustrating complete line of outstanding RMS antennas and associated accessories.



**RADIO MERCHANDISE SALES, INC. NEW YORK, N. Y.**



# RCA ELECTRONIC COMPONENTS

## TELEVISION PARTS

### CONTROLS

- #201R1 Width Control. Screwdriver-adjusted variable reactor. Powdered iron core. For use with RCA 211T1 where kinescope anode potential not over 9 KV.....\$0.70
- #201R2 Projection Width Control. Features same as 201R1. For use with RCA 211T2 in circuits with kinescope anode potentials up to 27 KV design center .....\$2.20
- #201R3 Horizontal Linearity Control. Features spring clip mounting. For deflection circuits using RCA 211T1 and 201D1.....\$0.80
- #203R1 Horizontal Oscillator and Synchronizing Control-Coil. A permeability tuned center-tapped oscillator coil for use in Television receivers employing a 6SN7-GT as a combination horizontal blocking oscillator and synchronizing control tube.....\$1.80

### TRANSFORMERS

- #201T6 Power Transformer. For use in 30-tube TV receivers requiring rectified current of 295 ma. at voltage of approx. 385 volts....\$26.00
- #201T7 For 24-Tube Receivers.....\$21.00
- #201T8 For 21-Tube Receivers.....\$19.00
- #201T9 For 27-Tube Receivers.....\$21.00
- #201T10 For 27-Tube Receivers.....\$21.00
- #204T1 Horizontal Output Transformer. Moisture-resistant. For deflection circuits with 50° mag. deflection kinescopes using RCA 201D1 or 201D2 .....\$20.00
- #204T9 Vertical Output Transformer. Quiet operation. For use with RCA 201D1 or 201D2 where kinescopes require 50° magnetic deflection .....\$4.50
- #204T3 Horizontal Output Transformer. Powdered iron core. For use where electro-magnetic deflection kinescopes with RCA 201D1 yokes are employed .....\$12.00
- #208T1 Horizontal Blocking-Oscillator Transformer. Powdered iron core. For use where electro-magnetic deflection kinescopes with RCA 201D1 yokes are employed.....\$3.90
- #208T9 Vertical Blocking-Oscillator Transformer. Generates 60 cps pulses required to drive the grids of horizontal discharge tubes....\$2.50
- #208T3 Horizontal Blocking-Oscillator Transformer. Similar to 208T1 except that bracket mounting is used in place of potted can construction .....\$2.75

- #208T8 Horizontal Sync-Discriminator Transformer. Provides automatic horiz sweep freq control. Couples horiz-sweep oscillator to horiz-sync discriminator .....\$2.30
- #211T1 Horizontal Output Transformer. For use with RCA 201D1 and directly-viewed kinescopes requiring 50° magnetic deflection using typical circuits.....\$9.50
- #211T2 Horizontal Output Transformer. Designed for use in recommended circuits employing projection kinescope RCA 5TP4. Powdered iron core.....\$19.00

### YOKES

- #201D3 Deflection Yoke. For use with directly-viewed kinescope requiring 50° magnetic deflection such as RCA 7DP4 and 10BP4 \$14.90
- #201D2 Deflection Yoke. For use with projection kinescopes requiring 50° magnetic deflection such as RCA 5TP4.....\$13.00

### COILS

- #202D1 Focus Coils. For magnetically focused kinescopes with deflection angles up to 50°, such as 10BP4. Utilizes large conductor size for long life.....\$7.50
- #204L1 Filament Choke. Eliminates undesirable RF currents from filament circuit. Consists of self-supported 16-turn coil on ¼" inside diameter .....\$0.20
- #204X1 Television I-F and Video Coil Kit. Contains all the coils for building a high quality receiver. 15 individual items.....\$19.50

### MISCELLANEOUS

- #201E1 Television Tuner incorporating RF amplifier, converter and heterodyne oscillator, with 13-channel station selector and fine tuning control. Includes 3 RCA 6J6 tubes.....\$64.00
- #201X1 Yoke Mounting Hood. Holds deflection yoke RCA 201D1 on kinescopes such as RCA 7DP4, 10BP4 .....\$1.30
- #203D1 Iron-Trap Magnet. (Coil Type). Required for RCA 7BP4 and 10BP4. Eliminates ion spot on kinescope screen.....\$6.50

All prices in effect 5/15/49.

FOR COMPLETE INFORMATION ON  
RCA TELEVISION PARTS, ASK YOUR  
RCA DISTRIBUTOR FOR FORM 3F602.

All prices shown are  
suggested list prices.

*Thank You!*

When writing for additional  
information or when ordering  
from sources of supply listed  
in this book, please mention

*RADIO'S MASTER*

# ICA INSULINE ICA

## RADIO PRODUCTS

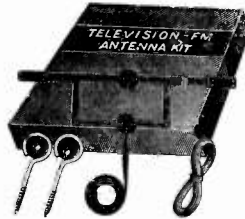
### TELEVISION-FM ANTENNAS — ACCESSORIES



#### ALL-CHANNEL ANTENNA KIT

Designed for INDOOR use. Combination of low band and high band antennas of the flexible dipole type. Includes bakelite double pole double throw knife switch. Each antenna may be separately oriented for the maximum reception of either high or low band. Knife switch permits quick changing from antenna to antenna without disconnecting.

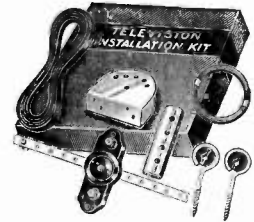
No. 6095..... List \$6.95



#### ALL-CHANNEL ANTENNA KIT

An outdoor television antenna kit of the flexible dipole type, featuring simplicity of installation. May be placed on roof or other convenient location. Yields effective reception of all television channels. Complete with generous 60 ft. 300 ohm twin lead; special weather-resistant nylon supporting strings; insulated screw eyes.

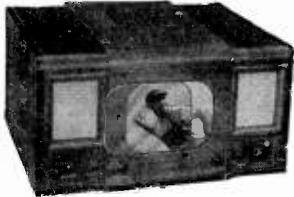
No. 6096..... List \$5.95



#### ANTENNA INSTALLATION KIT

A handy compact assortment of components to facilitate the installation of any type of outdoor antenna. Especially suitable for television antenna installations. Includes: 60 ft. 300 ohm twin lead—3 Universal Screw Eyes—for either twin lead or coaxial cable—Heavy gauge steel Antenna Base Mount—heavy gauge steel extension mast Coupler—100 ft. sturdy Guy Wire—Lightning Arrester with ground strap.

No. 6159..... List \$6.95

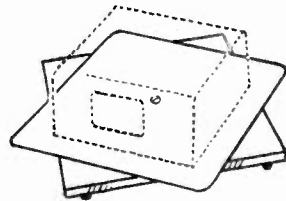


#### The New ICA TELEVISION FILTER

A sensational improvement that adds to the enjoyment of television reception. A scientifically compounded Filter . . . easy to install . . . suitable for every type of receiver.

The ICA Filter offers these outstanding television viewing features: Dissolves fuzzy grays . . . snaps up blacks . . . sharpens detail . . . restful tinting cuts down eyestrain . . . eliminates glare and room-light interference . . . reduces flickering and picture grain . . . unbreakable. Excellent for daylight reception.

No. 6176—7" tube size	List \$1.45
No. 6177—10" tube size	List 1.95
No. 6178—12" tube size	List 2.95
No. 6179—15" tube size	List 3.95
No. 6180—20" tube size	List 5.95



#### TELEVISION RECEIVER TURNTABLE

Designed for table model receivers. Permits multi-angle television viewing without lifting or disconnecting set. Eliminates furniture moving, re-connecting of set, etc.

Set is merely placed on turn-table—ready for operation. Finger-tip pressure. Makes complete circle for all-angle viewing. Heavy gauge steel in beautiful "hammered-tone" finish. Finely engineered swivel base unit.

No. 6184..... List \$16.50



#### ICA TURNBUCKLES

Sturdy, steel turnbuckles that afford balanced tension of supporting wires. Especially suitable for antenna guy wires. Assure slack-free, rigid support.

No. 6150—3" (closed)	List \$ .25
No. 6151—5" (closed)	List \$ .35



#### ICA U-BOLTS

Offer a firm and rigid clamping action for affixing antenna or supporting masts to metal or wooden surfaces. Nuts and washers included. Overall measurements: width 1"; length 2 1/2".

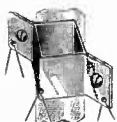
No. 6153..... List \$3.30



#### PIPE STRAPS

A useful accessory for supporting antenna masts, etc., against Chimneys, gables, walls or other flat surfaces. Suitable for all masts up to 1" in diameter.

No. 6152..... List \$10.00 C



#### GUY WIRE CLAMP

Ideal for set-ups requiring guy-wire support. May be located at any position on antenna mast for maximum rigidity. This rugged adjustable steel clamp is suitable for masts ranging from 3/8" to 1 1/4" diameters. Includes nuts and lock-washers.

No. 6144..... List \$5.50



#### ICA TELEVISION SERVICING KIT

A compact handy kit containing 13 of the newest servicing tools especially engineered for general television installation and servicing. Neatly packed in leatherette case. Includes high voltage test prods, dual-bladed trans-aligning tool; coil and trimmer aligner—slim diam. TV "Channel Tuner"; spring-controlled Safe-T-Tester; 4 in 1 Aligning tool; narrow shaft trimmer aligning tool; flexible screw driver and socket wrench; thin-bladed neut. tool for "Admiral," etc., TV sets; slim flexible tuning wand for Zenith, etc., TV sets; tuning wrench for Zenith, etc., TV sets; slim, dual-bladed aligner for "Admiral," etc., TV sets.

No. 6160..... List \$16.95

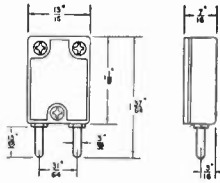
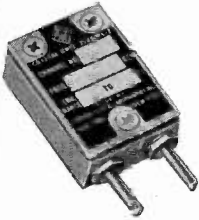
# PREMIER CRYSTALS

*for*

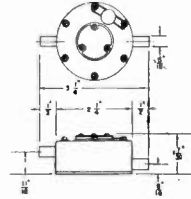
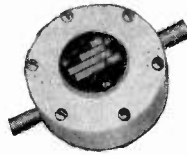
Communications  
Laboratories  
Broadcast Stations

Diathermy  
Service Men  
Equipment Manufacturers

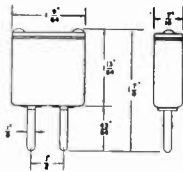
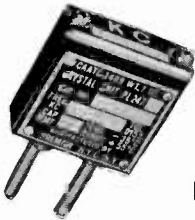
Aircraft  
Amateurs  
Equipment Manufacturers



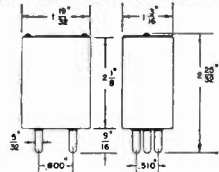
**PL-7** 3,000 to 11,000 kc.  
Pressure-mounted crystal.



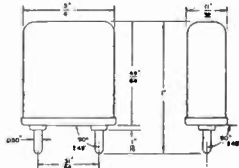
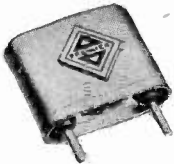
**157** 85 to 10,000 kc.  
Variable air gap.



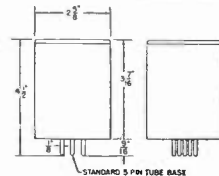
**PL-247** 700 to 11,000 kc.  
Also with .093" pins to  
fit actual socket.



**PL-258** 80 to 10,000 kc.  
Available as either  
single unit or dual unit.



**PL-261** 1,000 to 20,000 kc..  
Also available in holder  
9/16" high.

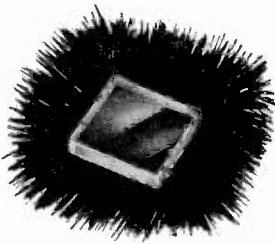


**501** 90 to 10,000 kc.  
Temperature controlled crystal oven,  
with or without thermometer.

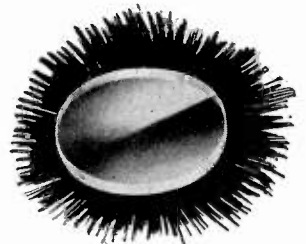
The above units are typical of the wide range of standard and special Premier crystals available for every frequency need. Your inquiry is invited.

## ULTRASONIC CRYSTAL UNITS

Crystals . . . Blanks . . . Mounts . . . Transducers



Premier ultrasonic crystal blanks, flat or curved, round or square, can be manufactured to your specifications. Consult us on your crystal problems in connection with experimental work in ultrasonics. No obligation; strictest confidence observed.



## PREMIER CRYSTAL LABORATORIES, INC.

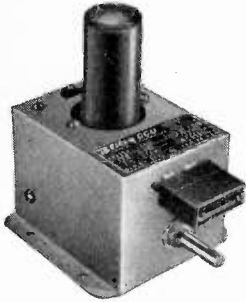
MANUFACTURERS OF RADIO AND ELECTRICAL APPARATUS  
OPTICAL AND PIEZO CRYSTALS—PRECISION CRYSTAL HOLDERS  
89 SEVENTH AVENUE NEW YORK 11, N. Y.





# Bliley

## CRYSTALS AND CRYSTAL CONTROLLED OSCILLATORS



### CCO — CRYSTAL CONTROLLED OSCILLATOR — MODEL 2A

For 2-6-10-11 Meters

With this basic oscillator, employing a 6AG7 tube, the advantages of VHF crystal control are easily achieved. Has direct output on 6-10-11 meters and ample output to drive tripler stage on 2 meters. Single tuning control, bandswitch and crystal socket are mounted on outside of painted metal subchassis with power and output

terminals at back. Uses Bliley AX2 20-meter crystals for output on 10 and 11 meters, new Bliley AX3 crystals for 6 and 2 meter operation. Ideal as nucleus for new construction or conversion of existing equipment.

Supplied less tube and crystal . . . . \$9.95

### AMATEUR FREQUENCY CRYSTALS

#### TYPE AX2

These high stability advanced design crystals are plated to insure long term precision and reliability. Calibrated to  $\pm .002\%$  with drift less than .0002% per degree Centigrade. Holder pins spaced on .486" centers.



Supplied	Range	Price
$\pm 2$ Kc	3500—4000 Kc	\$2.80
$\pm 2$ Kc	7000—7425 Kc	2.80
$\pm 30$ Kc	12500—13500 Kc	3.95
$\pm 30$ Kc	13580—13714 Kc	3.95
$\pm 30$ Kc	14000—14850 Kc	3.95

#### TYPE AX3

A new third overtone crystal unit produced for use in the Bliley CCO-2A. Has exceptionally high activity at operating frequency. Calibration accurate to  $\pm .003\%$  in CCO-2A with drift less than .0002% per degree Centigrade. Plated crystal is mounted in gasket sealed holder with pins spaced .486" centers.



Supplied	Range	Price
$\pm 5$ Kc	24000—24333 Kc	\$3.95
$\pm 5$ Kc	25000—25500 Kc	3.95

#### TYPE CF6 455 Kc

Single signal filter crystal unit. Exceptionally low holder capacity permits sharp signal discrimination in filter network of general communications receivers. Frequency 455 Kc free from spurious responses within  $\pm 7$  Kc.



Price \$4.50

#### TYPE CF3 455 Kc

Single signal filter crystal unit. Frequency 455 Kc,  $\pm 5$  Kc—free from spurious responses within  $\pm 7$  Kc of fundamental. Designed for intermediate frequency filter in general communications receivers.



Price \$5.00

#### TYPE MC9 3105 Kc

This unit is suggested for use in private aircraft transmitters operating at 3105 Kc. The crystal is guaranteed to be within  $\pm .02\%$  of 3105 Kc at any temperature between 0° C and 50° C and is factory tested for performance over this temperature range. Plug-in type holder is gasket sealed against moisture and humidity.



Price \$5.50

#### TYPE VX2 3105 Kc

Designed for applications where space is at a premium, this unit is recommended for private aircraft communication at 3105 Kc. Guaranteed to maintain frequency within  $\pm .02\%$  at any temperature between 0° C and 50° C. Solder lug connections permit mounting under chassis and assembly is gasket sealed against moisture and humidity.



Price \$5.00

#### TYPE KV3 100 Kc

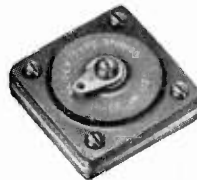
A precision crystal designed for use in secondary standards. Crystal is silver plated and mounted between wire supports which are soldered to the plated surfaces. Exceptionally low drift crystal is adjustable to exactly 100 Kc at 25° C when used in recommended oscillator circuit.



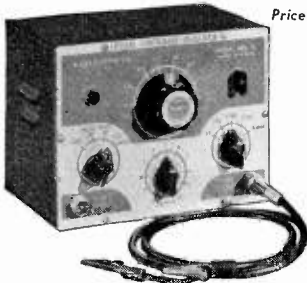
Price \$6.95

#### TYPE SMC100 100-1000 Kc

Dual frequency crystal provides either 100 Kc or 1000 Kc frequency source. When used in recommended oscillator circuit 1000 Kc frequency is within  $\pm .05\%$  at 25° C and 100 Kc frequency can be adjusted to zero beat at 25° C. Suggested for signal generators used in alignment of radio receivers.



Price \$8.75



For complete dimensional information consult Bulletin 35 available at any Bliley distributor.

## Bliley CCO

MODEL 1C

CRYSTAL  
CONTROLLED OSCILLATOR

For instant channel selection and frequency accuracy, radio service technicians use this Bliley test instrument.

It provides direct crystal control for i-f alignment. Write for descriptive Bulletin 32.

Complete with 7 Bliley crystals, tubes and concentric output cable. . . . \$69.50

**BILEY ELECTRIC COMPANY**

# PR Precision CRYSTALS



## COMMERCIAL TYPES—SPECIFICATIONS

Type	Frequency Range	Pin Spacing	Pin Diameter	Height Above Pins	Width	Depth	
Z-1 Fundamental	900 Kc. to 12000 Kc.	.486"	.093"	1-3/16"	13/16"	7/16"	
Z-1 Harmonic	12000 Kc. to 30000 Kc.	.486"	.093"	1-3/16"	13/16"	7/16"	
*Z-1A Fundamental	425 Kc. to 12000 Kc.	3/4"	.125"	1 3/8"	1 3/8"	1/2"	
*Z-1A Harmonic	12000 Kc. to 30000 Kc.	3/4"	.125"	1 3/8"	1 3/8"	1/2"	
Z-1B Fundamental	1000 Kc. to 12000 Kc.	3/4"	.125"	1 3/8"	1-3/16"	1/2"	
Z-1B Harmonic	12000 Kc. to 30000 Kc.	3/4"	.125"	1 3/8"	1-3/16"	1/2"	
Z-1D Same as Z-1	Same as Z-1	1/2"	.125"	1-3/16"	13/16"	7/16"	
Z-1E Same as Z-1	Same as Z-1	1/2"	.125"	1 1/4"	1 1/8"	7/16"	
Z-1H Single or dual unit Fundamental	100 Kc. to 5000 Kc.	3-Pin W.E.	.157"	2-1/16"	1-19/32"	1-3/16"	
Z-1K Same as Z-1A except has .157" dia. pins	Same as Z-1A						
Z-1M Fundamental	1000 Kc. to 5000 Kc.	7/8"	Std. Banana	2-3/32"	1-19/32"	3/4"	
†Z-1R Fundamental	175 Kc. to 475 Kc.	1/2"	.093"	1 1/4"	1-3/32"	7/16"	
Z-4 Fundamental	1500 Kc. to 12000 Kc.	3/4"	.125"	.650"	Diameter	.995"	
Z-4 Harmonic	12000 Kc. to 30000 Kc.	3/4"	.125"	.650"	Diameter	.995"	
Z-7 Fundamental	1000 Kc. to 12000 Kc.	3/4"	Std. Banana	1.660"	1.192"	.518"	
Z-8 Fundamental	400 Kc. to 5000 Kc.	3/4"	1/8"	1 3/4"	1-9/16"	1-11/16"	
Z-6 Fundamental	100 Kc. to 325 Kc.	3/4"	1/8"	1 1/2"	Diameter	1-25/32"	
E-1 Fundamental	100 Kc. to 7000 Kc.	Interchangeable with FT-164 and AC-95					
FT-171-B Fundamental	1000 Kc. to 8000 Kc.	3/4"	Std. Banana	2 1/4"	1 1/2"	13/16"	

\* Can be Supplied with Standard Banana Pins.

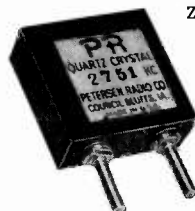
† For Signal Generator Use. Not recommended for Transmitter Freq. Control.



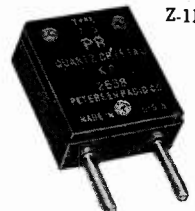
Z-6



Z-1



Z-1A



Z-1B

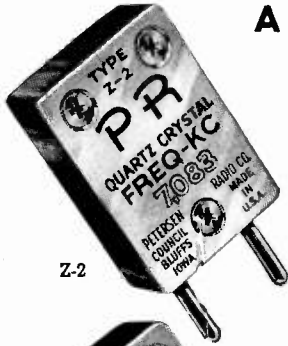
**PETERSEN RADIO Company, Inc., 2800 W. Broadway, Council Bluffs, Iowa**

# PR Precision CRYSTALS



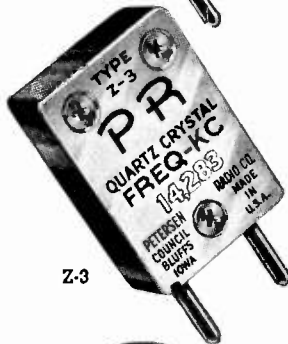
## AMATEUR — Specifications and Frequencies

### TYPE Z-2



Z-2

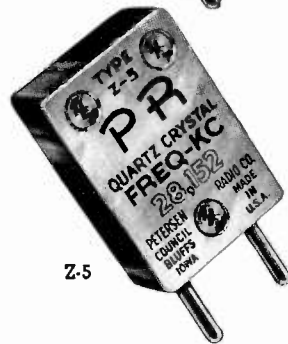
- 160 meter band for VFX-680 Narrow Band FM in Sonar Exciter.
- 1699.2 to 1710 Kc. for 11 meter band.
- 1750 to 1812 Kc. for 10 meter band.
- 1828 and 1844 Kc. These 2 frequencies cover entire 10 meter FM band in Sonar VFX-680.
- 1562.5 to 1687.5 Kc. for 6 meter band.
- 1778 to 1827 Kc. for 2 meter band.
- 3395 to 3428.5 Kc. for 11 meters.
- 3500 to 4000 Kc. for 80, 40, 20 and 10 meters.
- 6250 to 6750 Kc. for 2 meters.
- 6790 to 6857 Kc. for 11 meters.
- 7000 to 7425 Kc. for 40, 20 and 10 meters.
- 8000 to 8222 Kc. for 2 meters.
- 8334 to 9000 Kc. for 6 meters.
- 9000 to 9250 Kc. for 2 meters.



Z-3

### TYPE Z-3

- 12000 to 12333 Kc. for 2 meters.
- 12500 to 13500 Kc. for 6 meters.
- 13580 to 13715 Kc. for 11 meters.
- 14000 to 14850 Kc. for 20 and 10 meters.



Z-5

### TYPE Z-5

- 25000 to 27000 Kc. for 6 meters.
- 27160 to 27430 Kc. for 11 meters.
- 28000 to 29700 Kc. for 10 meters.

## CHECK SUPERIORITY OF PR Crystals

### Stability . . .

Drift characteristics of PR Crystals limited to less than 2 cycles per MC per degree. You get low drift, combined with high output, dependable frequency control. X-Ray orientation guarantees uniform cut for maximum low-drift performance.

### Accuracy . . .

Guaranteed accurate within .01 per cent of specified frequency or better. When doubling and quadrupling accuracy is absolutely essential. You KNOW where you are with PRs.

### Power Output . . .

PRs are designed to give maximum power output from the exciter stage when operating at the highest permissible voltages. PR Crystals can "take it."

### Activity . . .

PRs give you high activity. They "come in" instantly on phone . . . key without chirps, even at high bug speeds, without excessive "backing off."

### Unconditional Guarantee . . .

Every PR Precision CRYSTAL is guaranteed unconditionally, by the makers of fine crystals since 1934.

**PETERSEN RADIO Company, Inc., 2800 W. Broadway, Council Bluffs, Iowa**

# PR Precision CRYSTALS



## PRICE LIST SUBJECT TO CHANGE WITHOUT NOTICE

### COMMERCIAL

Type	Frequency Range	Tolerance			Schedule	
		.005%	.01%	.02%		
Z-1	Fundamental	900 to 12000 Kc.	\$12.50	\$11.00	\$10.00	A
Z-1	Harmonic	12000 to 20000 Kc.	15.00	12.50	11.00	A
Z-1	Harmonic	20000 to 30000 Kc.	18.00	15.00	13.00	A
Z-1A	Fundamental	425 to 900 Kc.	15.00	12.50	11.00	A
Z-1A	Fundamental	900 to 12000 Kc.	12.50	11.00	10.00	A
Z-1A	Harmonic	12000 to 20000 Kc.	15.00	12.50	11.00	A
Z-1A	Harmonic	20000 to 30000 Kc.	18.00	15.00	13.00	A
Z-1B	Fundamental	1000 to 12000 Kc.	12.50	11.00	10.00	A
Z-1B	Harmonic	12000 to 20000 Kc.	15.00	12.50	11.00	A
Z-1B	Harmonic	20000 to 30000 Kc.	18.00	15.00	13.00	A
Z-1D	Same as Z-1	Same as Z-1				A
Z-1E	Same as Z-1	Same as Z-1				A
Z-1H	Fundamental	100 Kc. Standard		(Exact Frequency)	12.00	B
Z-1H	Fundamental	101 to 900 Kc.	18.00	15.00	13.00	A
Z-1H	Fundamental	901 to 5000 Kc.	15.00	12.50	11.00	A
Z-1H	Dual Unit	901 to 5000 Kc.	30.00	27.50	25.00	A
Z-1K	Same as Z-1A	Same as Z-1A				A
Z-1M	Fundamental	1000 to 5000 Kc.	15.00	12.50	11.00	A
Z-1R	Fundamental	175 to 475 Kc.	18.00	15.00	13.00	A
Z-1R	Fundamental for Signal Generators	{ 175, 200, 262, 370, 455, 456, 465 Kc. }		6.00		B
Z-1R	Fundamental	475 to 1000 Kc.	15.00	12.50	11.00	A
Z-4	Fundamental	Same as Z-1				A
Z-4	Harmonic	Same as Z-1				A
Z-7	Fundamental	Same as Z-1				A
Z-8	Fundamental	400 to 900 Kc.	18.00	15.00	13.00	A
Z-6	Fundamental	100 Kc. Standard		(Exact Frequency)	9.00	B
Z-6	Fundamental	101 to 175 Kc.	18.00	15.00	13.00	A
E-1	Fundamental	100 to 900 Kc.	20.00	19.00	18.00	B
E-1	Fundamental	900 to 7000 Kc.	19.00	18.00	17.00	B
FT-171-B	Fundamental	1000 to 8000 Kc.	12.50	11.00	10.00	A

### AIRCRAFT

Type	Frequency	Price	Schedule
Z-1, Z-1A, Z-1B	3105 and 6210 Kc.	\$5.00	C

### MARINE

Type	Transmitter	Receiver	Schedule
Z-1	\$10.00	\$10.00	A
Z-1A	10.00	10.00	A
Z-1B	10.00	10.00	A
Z-1D	10.00	10.00	A
Z-1H	12.50	12.50	A
Z-1H Dual	25.00	25.00	A
Z-1K	12.50	12.50	A
Z-1M	12.50	12.50	A

### AMATEUR

Note: Crystals Within Amateur Bands Supplied INTEGRAL KILOCYCLES Only.

Type	Tolerance	Price	Schedule
Z-2	.01%	\$2.75	B
Z-3	.01%	3.75	B
Z-5	.01%	5.00	B

Crystals for amateur service other than frequencies listed on Catalog Sheet can be supplied as follows:

Type	Range	Tolerances			
		Plus or Minus 5 Kc.		Plus or Minus .02%	
		Price	Sched.	Price	Sched.
Z-2, Fundamental	1500 to 10000 Kc.	\$2.75	B	\$11.00	A
Z-3, 3rd Harmonic	10000 to 20000 Kc.	3.75	B	11.00	A
Z-5, 3rd Harmonic	20000 to 30000 Kc.	7.50	B	13.00	A

#### NOTICE

Prices on Commercial Crystals are based on quantities of 1 to 10 of the same frequency. For larger quantities write for prices.

Price on crystals below 100 Kc. furnished on request. Tolerance can be guaranteed only when oscillator or circuit diagram is furnished.

To facilitate the handling of your order, please order by type number and indicate permissible tolerance.

**PETERSEN RADIO Company, Inc., 2800 W. Broadway, Council Bluffs, Iowa**



SPECIALISTS IN  
SPECIAL CRYSTALS

# Crystals

for

Commercial ~ Aircraft ~ Marine  
Amateur ~ Police ~ Mobile  
Ultrasonic ~ Filter ~ Blanks

Precision Engineered ~ Complete Testing Facilities

GET OUR QUOTATION FOR QUALITY CRYSTALS



Crystal Research Laboratories, Inc. has complete facilities for research and development of Crystal applications for Communication and Frequency Controls . . . Filters . . . Supersonic Delay Lines . . . Ultrasonic . . . as well as for Scientific Instrumentation.

**THE ULTRA-SONORATOR** — Models SL520 and LB501 500-Watt Ultrasonic Generators with Associated Network . . . Write for Catalog.



**CRYSTAL RESEARCH**  
LABORATORIES, INC.

29 ALLYN ST., HARTFORD, 3, CONN., PHONE 7-3215



# TECH-MASTER PRODUCTS COMPANY

## AMERICA'S FINEST TELEVISION KITS

The Only TV Kits with "Circuit-Aligned" Components

- ★ 3 TIMES PICTURE AREA OF 10-INCH TUBE
- ★ 31 Tubes — Voltage Doubler
- ★ Ultra-Simplified Wiring Instructions
- ★ Easily Wired Over a Week-End
- ★ Tech-Master Integrity  
(Only Perfection Is Acceptable)

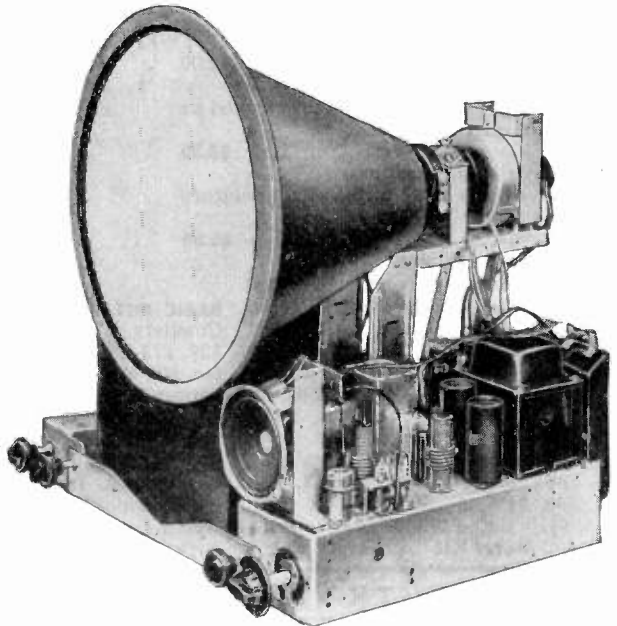
# "Super 16"

Tech-Master, pioneer in the TV kit field, scoops the industry again with this "Super-16" TV kit that produces big, BIG pictures of superlative quality. Our engineers utilized our famous 630-TK De Luxe kit as a basis. An 11T5 flyback transformer, a 2D2 focus coil, a 1R4 width control and other fine components PLUS our new Universal Brackets to accommodate kinescopes up to 16 inches have been added.

A clever, and thoroughly sound, voltage double circuit using two 1B3's has been designed by our engineers to provide full voltage and current to drive up to 20-in kinescopes with excellent brilliance, definition and sweep. Ultra-simplified instructions make it possible for practically anyone to wire this kit over a week-end. The famous "Circuit-Aligned" components supplied with our kits keep final adjustments down to a negligible minimum, and these can be performed without additional equipment.

"SUPER-16" 630-TK De Luxe TV Kit, complete with all tubes, parts and instructions.

Less Kinescope . . . . . Net **\$177.50**

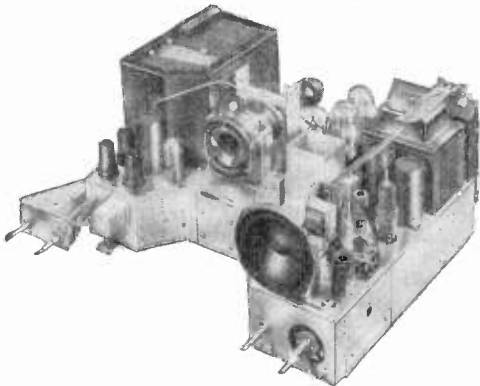


### 630-TK DE LUXE TV KIT

Build your own duplicate of the famous RCA 630-TS with this superfine, 1949 model Tech-Master 630-TK television kit. You will enjoy television at its finest — and save plenty. The Tech-Master kit is complete in all details — major components, all controls, all sockets and terminal strips are mounted in place. Only the interesting and instructive wiring remains to be done from the ultra-simplified wiring diagrams — easily accomplished over a week-end. Furnished with RCA 13-channel front end tuner completely wired, aligned and tested. "Circuit-Aligned" components mean all final adjustments can be made without additional equipment.

630-TK De Luxe TV Kit, all components mounted, complete with all tubes, parts, instructions, less kinescope.

Net **\$163.50**



### 630-TK STANDARD TV KIT

The 630-TK Standard 10" TV kit is identical with the De Luxe, described above, except that it is offered at a low, economy price because no components are mounted. In every other respect it is the same as the De Luxe model, same quality front end and components, complete instructions.

630-TK Standard TV Kit, complete with all tubes, parts, instructions; less kinescope . . . . . Net **\$144.50**

### TECH-MASTER TELEVISION CABINETS

10" Table Model Cabinet (illustrated at right), for either 630-TK TV kit. Handsome, sturdy, mahogany finish. With safety glass and Kinescope mounting slides. Completely drilled, ready for installation. 24 3/4" x 20" x 14" high. . . . . Net **\$42.50**

12 1/2" Table Model Cabinet . . . . . Net **\$47.50**

15" or 16" Table Model Cabinet . . . . . Net **\$54.50**

15" or 16" Mahogany Console Cabinet . . . . . Net **\$98.50**

15" or 16" Formica Console Cabinet in Blonde, Mahogany, Walnut or Ebony Finish . . . . . Net **\$98.50**



# TECH-MASTER PRODUCTS COMPANY

## 630-TK TELEVISION COMPONENTS KITS

**ELECTROLYTIC CONDENSER KIT**  
Consists of our part numbers 338, 367, 368, 369, 370, 371 listed below.

EK Kit . . . . . \$7.98

**BLEEDER RESISTOR KIT**  
Consists of our part numbers 439, 458, 459, 876 listed below.

BK Kit . . . . . \$4.25

**IF & VIDEO COIL KIT**  
Consists of 2 1K1s, 2K2, 2K3, 2K4, 3K1, 2 2L1s, 3L1, 3L2, 2 3L3s, 2 3L4s, 5 4L1s listed below.

4X2 IF & Video Coil Kit . . . . . \$12.00

**MICA CAPACITOR KIT**  
Consists of the 14 mica capacitors used in the 630-TS circuit.

MK Kit . . . . . \$3.95

**CERAMICON CAPACITOR KIT**  
Consists of the 25 ceramicon capacitors used in the 630-TS circuit.

CK Kit . . . . . \$5.89

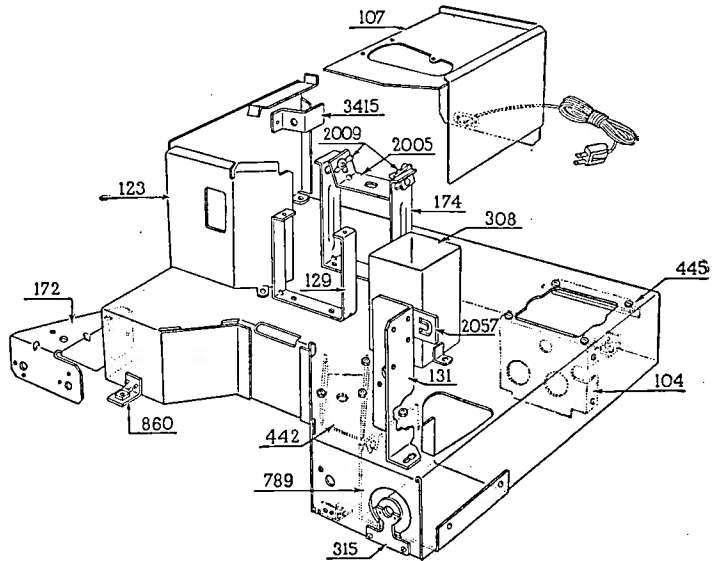
**TUBULAR BY-PASS KIT**  
Consists of the 38 by-pass moulded capacitors used in the 630-TS circuit.

TK Kit . . . . . \$8.85

**RESISTOR KIT**  
Consists of the 107 1/2, 1 and 2-watt resistors used in the 630-TS circuit.

RK Kit . . . . . \$8.48

**COMPLETE METAL CHASSIS KIT**  
Consists of our part numbers 1SC, 104, 107, 115, 116, 123, 129, 131, 172, 174, 308, 442, 445, 789, 4 860s, 2004, 2009, 3415, listed below. (Less cord.)  
No. 1950 Metal Kit . . . . . \$29.50



**630-TK Chassis Assembly (No. 1950 Metal Kit)**

**BASIC METAL CHASSIS KIT**  
Consists of our part numbers 1SC, 129, 172, 174, 308, listed below.  
No. 500 Metal Kit . . . . . \$7.70

**"SUPER-16" CONVERSION KIT**  
Consists of all components and instructions for converting 630 type TV receivers for use with 15" or 16" kinescopes. Includes 11T5 flyback transformer, 2D2 focus coil, 1R4 width control, DS2 voltage doubler socket, UB universal mounting

brackets, 1B3 rectifier, all necessary resistors, condensers, etc., and instructions.

16CK Conversion Kit . . . \$33.30  
Conversion Instructions, separately, 25c

**UB ADJUSTABLE MOUNTING BRACKETS**  
Kinescope mounting brackets for tubes from 12 1/2" to 16". Mounts on 630 chassis so that face of all tubes up to 16" is in line with front controls.

UB Brackets . . . . . \$4.65

## 630-TK TELEVISION REPLACEMENT PARTS

Part No.	Description	Net	Part No.	Description	Net	Part No.	Description	Net
1SC	Stamped Chassis . . .	\$5.50	457	Line Cord and Plug . .	.96	11.8	Vert. & Horiz. Hold 50K/1 Meg. (72758)	\$2.50
104	Electrolytics Bracket . .	1.50	525	Kinescope Socket with leads . . . . .	1.32	11.15T	Horiz. Drive .25 Meg . .	.44
107	H.V. Shield Cover . . .	3.75	532	H.V. Anode Cap and Lead . . . . .	.66	1D1	Deflection Yoke . . .	4.50
123	H.V. Compartmt. Shield	3.75	533	Knob, Fine Tuning. . .	.24	1D3	Deflection Yoke . . .	8.94
115	Bleeder Case Cover . . .	1.90	534	Knob, Station Selector .	.33	1R1	Width Control . . . .	.42
116	Bleeder Case . . . . .	2.20	535	Knob, Pic, Brightness Vert. Hold . . . . .	.21	1R3	Hor. Linearity Control .	.48
129	Yoke Mtg. Bracket. . . .	.99	536	Knob, Hor. Hold, Vol. Control . . . . .	.18	1R4	Width Control . . . . .	.60
131	Speaker Bracket . . . . .	1.95	537	Knob, Dummy Brightness	.18	1R5	Hor. Linearity Control .	.72
157	Power Transformer . . .	15.60	598	Escutcheon Plate & Spring . . . . .	1.10	2D1	Focus Coil . . . . .	4.50
172	Bracket for Controls . .	1.65	789	R.F. Unit Shield. . . . .	1.50	2D2	Focus Coil . . . . .	6.60
174	Focus Coil "U" Bracket	1.65	853	Corona Ring . . . . .	.21	3D3	Ion Trap Magnet (PM type) . . . . .	1.26
308	Cathode Trap Shield . .	1.65	860	Mounting Foot (4 req.)	ea. .33	4T2	Vert. Defctn. Xfmr . . .	3.00
315	R.F. Unit Shaft Support .	.65	2005	Focus Coil Support. . . .	.65	8T2	Vert. Block Osc. Xfmr .	1.65
338	250/10V, 1000/6V Cond. (71436)	1.25	2009	8/32 Stud Assembly & Wing Nuts . . . . .	.18	8T8	Synchrolock Trnsfmr. .	1.38
367	40-10/450V, 80/150V, Cond. (71431)	1.53	3415	Width Control Bracket .	.33	11T1	Horiz. Deflection Output & H.V. Transformer. .	5.70
368	40-40-10/450V Cond. (71432)	1.72	11.5	Height Control 2.5 Meg. (71440)	.44	11T3	" " " " " " " "	5.70
369	80/450V, 50/50V Cond. (71433)	1.61	11.4	Vert. Lin. Control 5K (71441)	.73	11T5	" " " " " " " "	7.50
370	40-10/450V, 10/350V Cond. (71434)	1.39	11.11	Focus Control 1500 (71442)	.97	DS2	Voltage Doubler Socket	2.65
371	20/450V, 80/350V Cond. (71435)	1.48	11.16	Vert. & Horiz. Centering Control 20 WW (Two) (71443)	.97	KRK2	RCA Front End Tuner	38.40
439	6300 ohm WW 50 watt Bleeder . . . . .	1.47	11.9	Brightness 50K (71444)	.44	1K1	Sound IF Transformer	1.32
458	1590 " " " " . . . .	1.18	11.7	Volume—On/Off 10K/ 1 Meg (71446)	2.50	2K2	1st PIX IF . . . . .	1.41
459	6855 " " " " . . . .	1.06	11.15	Hor. Dri. 20K (71447)	.44	2K3	2nd PIX IF . . . . .	1.08
876	5000 ohm WW 10 watt Bleeder . . . . .	.36				2K4	Cathode Trap . . . . .	1.32
442	Detector Shield . . . . .	.65				3K1	Discriminator Trnsfmr.	1.65
445	Transformer Bracket. . .	.65				2L1	3rd and 4th PIX IF . . .	.39
450	500 mmf. H.V. Cond. . .	1.03				3L1	Peaking Coil . . . . .	.27
						3L2	Peaking Coil . . . . .	.27
						3L3	Peaking Coil . . . . .	.27
						3L4	Peaking Coil . . . . .	.27
						4L1	Filament Choke . . . . .	.12