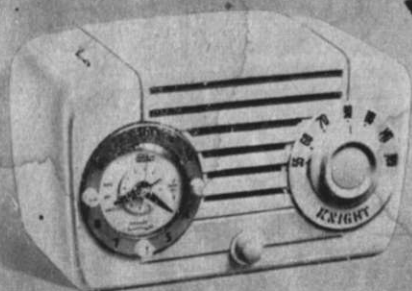


PILOT FM-AM RADIO
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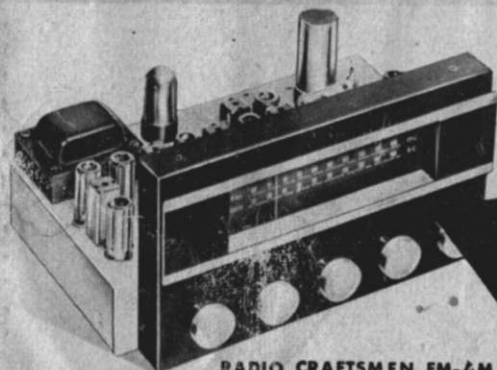


KNIGHT TAPE RECORDER
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NEW CLOCK-RADIO
Page 4

Newest Radio and Television Releases



**RADIO CRAFTSMEN FM-AM
RADIO TUNER**
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**TEC S-504
TV BOOSTER**
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Special Savings on Popular Equipment



**WILCOX-GAY
RECORDETTTE, SR.**
Page 2

ALLIED RADIO

833 W. JACKSON BLVD., CHICAGO 7, ILL.

Special Supplement No. 123

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SENSATIONAL RECORDER VALUES



NEW WILCOX-GAY RECORDETTA SR.

Portable Recorder-Radio-Phono Combination

New "Recordette" model by Wilcox-Gay—one of the pioneers in the field of popular disc recorders. New feature permits change-over from playing records to recording by merely lifting tone arm; cutting needle automatically comes into position to record—no needle changing necessary! Records from microphone or built-in radio; superhet receiver covers entire broadcast band.

Operating Features. Cuts discs up to 10" in diameter; plays records up to 12". Other features: Inverse feedback circuit; volume level indicator; 4-position selector switch.

Quality Components. Has 4-pole, constant-speed 78-rpm motor and full-size, rim-driven, 10" turntable. AC superhet chassis has low impedance loop antenna. Quality PM speaker. Crystal pickup and recording cartridge. Crystal microphone is carried in holder on inside cover. Attractive two-tone tan-and-brown leatherette-covered case, 18x12½x6". Complete with tubes, mike, cutting needle and playback needle. For 110-120 volts, 60 cycles. Carrying weight, 19 lbs. Shpg. wt., 21 lbs.

96-124. NET

59⁹⁵

Terms: 6.00 down, 5.20 monthly for 11 months.

For Additional Disc and Wire Recorders, See Pages 30-32, 115-116, of ALLIED Catalog No. 120

AIR KING PORTABLE WIRE RECORDER

A Complete Recorder at Amazing Low Cost

New portable wire recorder—a quality instrument made by a nationally known manufacturer—priced sensationally low! Records on wire from microphone supplied; has input for recording directly from any radio or phonograph. A highly versatile unit for recording home talent and radio programs off the air. Invaluable for business men to use in recording conferences, interviews, etc.

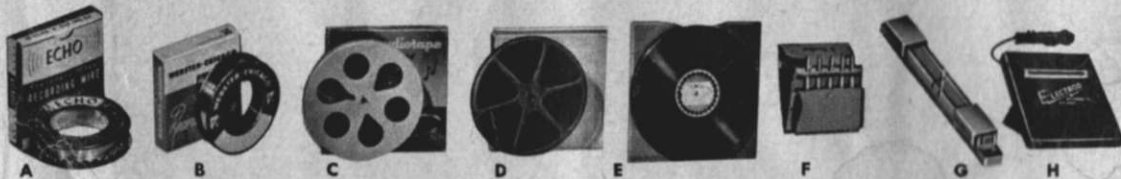
Super-Value Features. Records up to one hour. Four-tube (plus rectifier) amplifier and PM dynamic speaker provide excellent reproduction. Neon bulb volume level indicator assures proper recording level. Has high-speed rewind—6 times faster than forward speed. Highly efficient "erase" system completely erases previous recording. Automatic shut-off at either end of run.

Sturdy, Attractive Case. Housed in a handsome portable case covered in rich blue simulated leather. Size, 12" W, 9" H, 13¼" D. Complete with crystal microphone and 6-ft. cord, and all tubes. For operation on 105-125 volts, 60 cycles AC. Carrying weight, 21½ lbs. Shpg. wt., 28 lbs.

96-490. List, \$99.95. NET

79⁵⁰

Terms: 7.95 down, 6.32 monthly for 12 months.



HIGH QUALITY RECORDING WIRE, TAPE, DISCS AND ACCESSORIES

ECHO RECORDING WIRE, Fig. A. For standard wire recorders. .0036" stainless steel wire on standard die-cast spools. Plastic leaders. Shpg. wt., ½ lb.

96-145. ½-hour spool. EACH ... 1.19
In lots of 10. EACH ... 1.00

96-146. ½-hour spool. EACH ... 1.99
In lots of 10. EACH ... 1.48

96-147. 1-hour spool. EACH ... 3.35
In lots of 10. EACH ... 2.43

WEBSTER-CHICAGO RECORDING WIRE, Fig. B. For use with all standard wire recorders. Non-rusting stainless steel. Has excellent frequency response. Constant inspection for high quality. With nylon leaders. Metal spools. Ave. shpg. wt., ½ lb.

96-061. ½-hour spool. EACH ... 1.81
In lots of 10. EACH ... 1.09

96-062. ½-hour spool. EACH ... 2.69
In lots of 10. EACH ... 1.62

96-063. 1-hour spool. EACH ... 4.41
In lots of 10. EACH ... 2.65

PLASTIC BASE AUDIOTAPE, Fig. C. Oxide coating facing in; can be re-wound for use with coating facing out. With 7" aluminum reel, 1200 ft. Shpg. wt., 14 oz.

96-356. NET EACH ... 3.60
In lots of 10. EACH ... 3.23

KNIGHT TAPE VALUE, Fig. D. Paper base. Coating facing out; can be re-wound for use with coating facing in. With metal reel. ¼"x1200 ft. Shpg. wt., 12 oz.

96-263. NET EACH ... 1.95
In lots of 12. EACH ... 1.50

RECORDIS ORANGE LABEL DISCS, Fig. E. Semi-professional and home-type recording blanks. Cellulose nitrate coating on processed paper bond base; will not age or dry out. Smooth, uniform surface. Double-faced. Average shpg. wt., per 6, 1 lb.

No.	Dia.	EACH	6 FOR
69-110	6½"	15c	.54
69-111	8"	25c	.90
69-112	10"	35c	1.26

KNIGHT RECORDING NEEDLES, Fig. F. Stellite, with uniform flat shank. Average cutting life, 20 minutes. Polished. Shpg. wt., 3 oz.

65-803. Pkg. of 5. NET ... 59c

MAGNETIC TAPE SPLICER, Fig. G. Anyone can now splice tape properly and accurately with this handy, fool-proof splicer jig, a razor blade, and some No. 41 Scotch splicing tape. To operate, clamp both sections of the cut tape on the splicer, with the ends overlapping. Then cut both ends simultaneously, using the perpendicular groove for close editing and the diagonal groove to eliminate "joint noise." Then apply splicing tape, removing the surplus with razor blade by following the longitudinal grooves. Nickel-plated brass. 4x½x½". Mfg. ctrs., 3¼". Shpg. wt., 5 oz.

96-369. NET ... 2.23

96-232. Scotch No. 41 splicing tape. ½"x100". With dispenser. EACH ... 29c

ELECTROD TELEDUCER PICKUP, Fig. H. Magnetic device picks up both sides of a telephone conversation for on-the-spot recordings. May be used with any recorder—disc, wire or tape. No electrical connection to telephone needed. Unit is placed under telephone base, or on wall box—connects to high impedance mike input of any recorder or amplifier. Black enamel finish. Felt pad covers entire base. Ideal for recording important phone calls. Size, 8½x6½x1". With 12-ft. cable. Shpg. wt., 1¼ lbs.

99-482. List, \$17.50. NET ... 10.29

For additional high-quality recording accessories, refer to pages 30, 31 and 114 of ALLIED Catalog No. 120.

**LATEST KNIGHT
LOW-COST
MAGNETIC TAPE
RECORDER**

**SUPERB QUALITY
PRICED AT ONLY.....9950**



RECORDS FROM MIKE, RADIO OR RECORDS

New Simplified Operation. Extremely lightweight and portable, the KNIGHT tape recorder features a new type of recording mechanism that anyone can operate. Simplified threading and one-lever operating control for "Record-Play, Off, Rewind" positions, plus extremely fast rewind speed are just a few of its many features. Recordings can be made from microphone supplied, or from any radio, FM tuner or phono. Recordings may be played back through the built-in amplifier and speaker, or through an external amplifier or speaker. In addition, this recorder may be used as a medium coverage PA system, with an output of 5 watts.

KNIGHT Quality Features. Has excellent response, ± 6 db, 80-6,500 cps. A full hour recording can be made on a 1200-ft. reel of tape—at $7\frac{1}{2}$ " per second. Head records on only half the tape width at a time; after 30 minutes, the reels are reversed, and the recording proceeds on the second half. Rewind speed is 20 times faster than recording speed.

Easy to Make Fine Recordings. All controls are conveniently located and easy to use. Neon bulb recording level indicator assures proper recording level. Speaker switch permits muting speaker when recording from microphone. Efficient high-frequency "erase" system removes all trace of previous recording just ahead of the new recording. Flywheel principle used in capstan mechanism assures constant tape speed. Uses: 6J7 mike and playback preamp, 6SN7 2nd and 3rd audio amp., 6V6 as both power output and bias-erase osc. Has 6X4 rect. The KNIGHT tape recorder is supplied with crystal mike and 8-ft. cord, one 600-ft. reel of type "B" (outside coated) tape, 5" take-up reel, and all tubes. It is housed in a compact portable case, covered with two-tone brown pebble-grained leatherette. Size: 13" W, 10" H, 14" D. Drain 100 watts. For 105-125 volts, 60 cycle AC. Carrying wt., only 21 lbs. Shpg. wt., 26 lbs.

96-144. NET.....9950

Terms: 9.95 down, 7.91 monthly for 12 months.

96-263. Tape. Records 1 hr. on above recorder. Paper base. $\frac{1}{4}$ " width. Outside coated. 1200 ft. on 7" reel. Requires 7" take-up reel (see 96-194 at lower left). Shpg. wt., 8 oz.

NET EACH, 1.95. IN LOTS OF 12, EACH.....1.50



Scotch Recording Tape and Accessories

Fig. A. Finest Minnesota Mining & Mfg. Co. magnetic recording tape. 8 mm, paper and plastic base types. Frequency response, 50 to 8,000 cycles at $7\frac{1}{2}$ " per second. New improved paper tape has uniform coating of red oxide particles, providing better response and higher output than previous paper base tapes. Plastic base tape is stronger than paper tape, and has a lower noise level and more uniform output. Both types have excellent "erase" characteristics, and previous recordings may be eliminated without "memory effect." Plastic reels included. Wt., 8 oz.

Type 101A—Magnetic Coating Facing In. Paper.

Stock No.	Size	EACH	Lots of 12, Ea.
96-191	$\frac{1}{4}$ "x1200 ft.	2.33	2.10
96-223	$\frac{1}{4}$ "x 600 ft.	1.50	1.35
96-224	$\frac{1}{4}$ "x 150 ft.	.50	.45

Type 101B—Magnetic Coating Facing Out. Paper.

96-188	$\frac{1}{4}$ "x1200 ft.	2.33	2.10
96-212	$\frac{1}{4}$ "x 600 ft.	1.50	1.35
96-213	$\frac{1}{4}$ "x 150 ft.	.50	.45

Type 111A—Magnetic Coating Facing In. Plastic.

96-192	$\frac{1}{4}$ "x1200 ft.	3.67	3.30
96-226	$\frac{1}{4}$ "x 600 ft.	2.33	2.10
96-227	$\frac{1}{4}$ "x 150 ft.	.67	.60

Type 111B—Magnetic Coating Facing Out. Plastic.

96-189	$\frac{1}{4}$ "x1200 ft.	3.67	3.30
96-228	$\frac{1}{4}$ "x 600 ft.	2.33	2.10
96-229	$\frac{1}{4}$ "x 150 ft.	.67	.60

EMPTY PLASTIC REELS, Fig. B. Clear plastic. Will not warp. Supplied with Index box. Shpg. wt., 8 oz.

Stock No.	Dia.	Holds	EACH	Lots of 12, Ea.
96-194	7"	1200 ft.	.50	.45
96-236	5"	600 ft.	.43	.39
96-237	3"	150 ft.	.20	.18



MASCO R-3 TAPE RECORDER AND RADIO

Here's a deluxe portable tape recorder and superhet radio that makes quality recordings on tape from the built-in radio, from any phono or tuner, or from the high-impedance microphone supplied. A versatile, professional-quality unit in the medium price range. Perfect for home, office, or school. May be used as a public address system. The recorder is supplied complete—nothing else to buy!

Continuous Recording. Records in one direction—without interruption—for one full hour. Tape speed, 3.75 inches per second. Hour reel rewinds in $2\frac{1}{2}$ minutes. Also has fast forward speed. Capstan provides constant tape speed. Controls: Recording Level Indicator, On-Off Switch, Volume, Tone, Mike-Playback-Radio-Phono, Erase-Record-Play. Other features include: Monitoring output for headphones; brakes on both reels for fast stop without spilling. Provision for external speaker.

Built-in Superhet Radio. Sensitive radio brings in all standard broadcast stations. High-gain amplifier and 6x9" Alnico V PM speaker provides 5 watts output. Frequency response, ± 3 db, 100-7,000 cps. Tubes: 6SJ7 6SC7, 6SA7, 7SF7, 2-6V6GT. Rectifier used is 5Y3GT. Radio has built-in antenna provided.

Attractive Case. 2-piece case is covered with attractive brown simulated alligator. Size: $16\frac{1}{4}$ "x $19\frac{1}{4}$ "x $19\frac{1}{4}$ " high. Supplied with all tubes, Electro-Voice model 915 crystal microphone with $7\frac{1}{2}$ -ft. of cable and plug, one 1200-ft. reel of tape, inside coated. Power consumption, 118 watts. For 110-120 volts, 60 cycles, AC. Shpg. wt., 48 lbs.

96-134. List, \$218.50. NET.....14276

Terms: 14.28 down, 11.35 monthly for 12 months.

For Additional Tape Recorders See Pages 115-116 of ALLIED Catalog No. 120

NEW! BIG 16-INCH TELEVISION VALUE

More For Your Money In Every Way



Knight 16" TELEVISION CONSOLE

The Last Word in TV Performance and Value!

Here's our top television value—the KNIGHT 16" Console! Features up-to-the-minute, perfected TV circuits, "black face" rectangular picture tube—and a beautiful console cabinet—all for the money-saving price of only \$275.00. Get the most for your TV dollar—outstanding quality, superb engineering, construction to rigid standards. Buy the KNIGHT 16" Console, and enjoy thrilling, big-picture television.

Uses 16RP4 Rectangular Kinescope. The "black face" rectangular picture tube permits you to see the picture exactly as transmitted—on a filtered screen that increases picture contrast. No portion of the picture is lost due to non-rectangular tube shape or expansion of the image beyond the limits of the tube screen. You get the entire transmitted picture—on a 140 square inch viewing area!

Superb Engineering. "Inter-Carrier" sound IF system provides "driftless" tuning; audio is always tuned "on-the-nose." Four IF stages and tuned-grid, tuned-plate RF stage provide maximum gain and optimum bandwidth. Positive sweep lock-in provides steady pictures at all times. Has wide IF bandwidth for high picture definition. Ten-inch PM speaker brings you the full beauty of wide-range FM sound. Built-in antenna with 3-position arm gives good reception in strong signal areas. Input for external antenna also provided.

Beautifully Styled Cabinet. Solidly constructed of hardwood cores and mahogany veneers, the cabinet is an eye-appealing furniture piece that increases enjoyment of this remarkable television receiver. Overall size: 39½x22x21¼". Operating controls include: Horizontal-Vertical Hold, Focus, Channel Selector—Fine Tuning, Contrast, Brightness, On-Off and Volume. With 19 tubes, 2 rectifiers, and 16RP4 picture tube, and 10" PM speaker. For 110-120 volts, 60 cycle AC. Shpg. wt., 130 lbs.

LV-310. NET 275.00
Terms: 27.50 down, 21.86 monthly for 12 months.

Knight 12½" TELEVISION CONSOLE

Another outstanding KNIGHT TV buy! A top-performing TV set, housed in a mahogany console cabinet similar to the one shown at left. Provides brilliant, high-definition pictures, on a 92-square-inch screen. The 12½" "black face" tube is just the right size for perfect picture resolution at normal viewing distances in the average home. "Inter-Carrier" sound IF for drift-free tuning. Ten-inch PM speaker for life-like reproduction of FM sound. Positive lock-in sweep circuit holds picture steady. High IF of 36 mc minimizes interference. Built-in antenna plus two antenna inputs: 72-ohm and 300-ohm for external antenna if required.

Controls include: Contrast, Volume, Focus, Channel Selector—Fine Tuning, Vertical-Horizontal Hold and Brightness—On-Off. Complete with 18 tubes, 12½" picture tube, and 2 rectifiers. Overall size: 39½x22x21¼". For 110-120 volts, 60 cycle AC. Shpg. wt., 118 lbs.

LV-311. NET 225.00
Terms: 22.50 down, 17.89 monthly for 12 months.

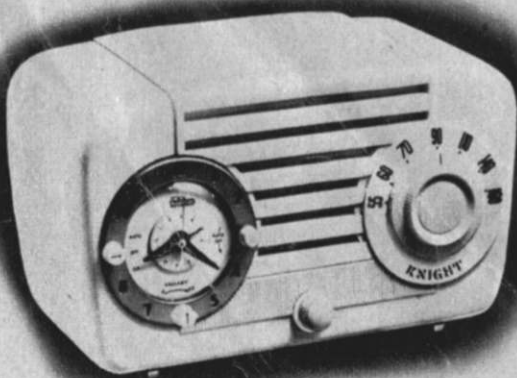
Knight "WAKEMASTER" RADIO and CLOCK WITH LULLABY SWITCH

Here's a new unit that starts and ends the day pleasantly—a radio featuring the famous Telechron sweep second alarm mechanism. In addition to telling the correct time always, this radio and clock combination has a built-in "Lullaby Switch" which turns itself off and on again at pre-set times. With this set, the listener is lulled to sleep while the radio plays for as much as an hour before turning off automatically. In the morning, the radio automatically comes on again, waking the listener gently and gradually with music or the latest news. A buzzer sounds 10 minutes later to make doubly sure the listener is awake. This versatile unit is available in ivory or mahogany finished plastic cabinets—styled to match the furnishings of any bedroom.

The perfected superhet circuit covers the entire standard broadcast band from 540 to 1600 kc. Includes: Alnico V PM dynamic speaker for lifelike reproduction; automatic volume control for uniform volume on all stations; efficient built-in loop antenna. Modern circuit uses: 12BE6, 12BA6, 50C5, 12AT6, 35W4 is rectifier. Size: 10¾" wide, 6¾" high, 5¾" deep. U. L. Approved. For operation from 115-120 volts, 60 cycles, AC. Complete with all tubes. Shpg. wt., 5½ lbs.

5G-675. Walnut. NET PRICE EACH, 22.82. 21.73
NET PRICE, LOTS OF 3, EACH
5G-676. Ivory. NET PRICE EACH, 23.89. 22.75
NET PRICE, LOTS OF 3, EACH

A DELUXE CLOCK-RADIO
AT AN UNBEATABLE PRICE





OUTSTANDING VALUES IN HOME AND PORTABLE RADIOS

Low-Cost AC-DC KNIGHT

An excellent performer at a low price! This compact, well-designed table model radio has many of the performance features generally associated only with receivers selling at a much higher price. AC-DC superhet circuit tunes 540 to 1720 kc, covering American and Canadian broadcasts, plus police calls. Has Alnico PM speaker; lighted easy-tuning slide-rule dial; automatic volume control; built-in loop antenna. R.C.A. and Hazeltine licensed circuit uses: 12SA7GT Oscillator-Converter; 12SK7GT IF Amp.; 12SQ7GT Combination Detector-AVC-1st Audio; 50L6GT Beam Power Output. Has 35Z5GT rectifier. Plays anywhere—from 105-125 volts, 50-60 cycles AC, or from 105-125 volts DC. Housed in a distinctively styled plastic cabinet, 10x6½x6". Complete with tubes. Shpg. wt., 8 lbs.

5E-250. Walnut. EACH, 12.95. **12.35**
IN LOTS OF 3, EACH
5E-251. Ivory. EACH, 13.95. **13.35**
IN LOTS OF 3, EACH

Super-Value AC-DC KNIGHT

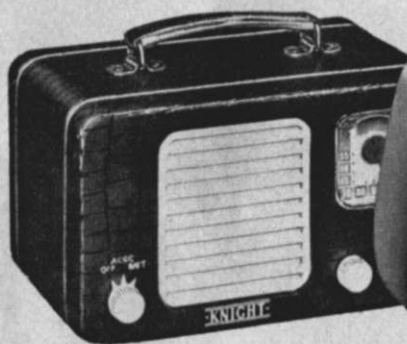
Here's exceptional value in a feature-packed low-priced table model receiver! Has untuned RF stage for extra-sensitivity and tuning stability, plus a two-position tone control for treble or bass emphasis—both features usually found only in more expensive models. The AC-DC superhet circuit covers the complete 535 to 1620 kc standard broadcast band. Other features include: Alnico PM dynamic speaker; built-in loop antenna; giant edge-lighted slide-rule dial for easy tuning; automatic volume control. R.C.A. and Hazeltine licensed circuit with latest tubes: 2-12SK7, 12SA7, 12SQ7, 35L6GT. Rectifier is 35Z5GT. Housed in a graceful, plastic cabinet; size: 11¾" wide, 8" high, and 7" deep. For operation from 110-120 volts DC. With tubes. Shpg. wt., 11 lbs.

6D-225. Walnut. EACH, 20.95. **19.85**
IN LOTS OF 3, EACH
6D-226. Ivory. EACH, 21.95. **20.85**
IN LOTS OF 3, EACH

FM-AM KNIGHT Superhet

A splendid FM-AM superhet receiver at a super-value price! This attractive table model features a ratio-detector system for outstanding FM reception on the full 88 to 108 mc FM range; standard AM broadcast coverage from 540 to 1600 kc; variable tone control for treble or bass emphasis; 5-inch PM dynamic speaker with Alnico V magnet; full-vision, easy-to-tune dial with FM frequencies calibrated in channels as well as megacycles; built-in antennas for AM and FM, with provision for external FM dipole antenna if desired; and automatic volume control. Modern circuit includes: 1-6BE6, 3-6BA6, 1-6AL5, 1-6SQ7, 1-25L6GT. Rectifier is 25Z6GT. Smart plastic cabinet, 14x8½x7½". For 110-120 volts, 50-60 cycles AC, or DC. With tubes. Shpg. wt., 13½ lbs.

8G-200. Mahog. EACH, 39.95. **37.95**
IN LOTS OF 3, EACH
8G-201. Ivory. EACH, 40.95. **38.95**
IN LOTS OF 3, EACH



KNIGHT 3-Way Portable

A compact personal portable that offers excellent reception at surprisingly low cost. A typical ALLIED value—fine quality construction and modern design at a low price. Plays anywhere: from self-contained batteries, or from AC or DC current. Precision-built superhet circuit tunes full standard broadcast band, 535 to 1650 kc. Good reproduction is assured by use of an Alnico PM speaker. Automatic volume control; built-in loop antenna; easy-reading dial; power change-over switch. R.C.A. and Hazeltine licensed circuit, with latest type tubes: 1S5, 3S4, 1R5, 1U4. Has 117Z3 rectifier. In beautiful simulated leather carrying case, with attractive plastic grille and sturdy carrying handle. Measures only 8½x5x4¼". For 3-way operation from 105-125 volts, 50-60 cycles AC, from DC or from plug-in batteries. Complete with tubes, less batteries. Shpg. wt., 6 lbs.

5F-565. EACH, 16.75. **15.05**



KNIGHT 3-Way Personal

Here's complete personalized entertainment in a smart, top-value portable. Hand-some—powerful—plays anywhere: on 105-125 volts, 50-60 cycles AC—on DC—or from self-contained long-life batteries. Covers full 535 to 1620 kc standard broadcast band. Has built-in loop antenna; powerful, crystal-clear tone reproduced by Alnico V PM speaker; provides reception comparable to fine home radio performance. Slide-rule dial with large, clear numerals for easy tuning. Automatic volume control maintains uniform volume level. Latest R.C.A. and Hazeltine licensed superhet circuit, equipped with following tubes: 1R5, 1U4, 1U5, 3V4. Includes 117Z3 rectifier. Housed in a beautiful plastic carrying case in two-tone brown and beige. Only 9½x7½x5½". Underwriters' Approved. For 3-way operation. Complete with tubes. Less batteries. Shpg. wt., 6 lbs.

5E-437. EACH, 21.95. **20.95**

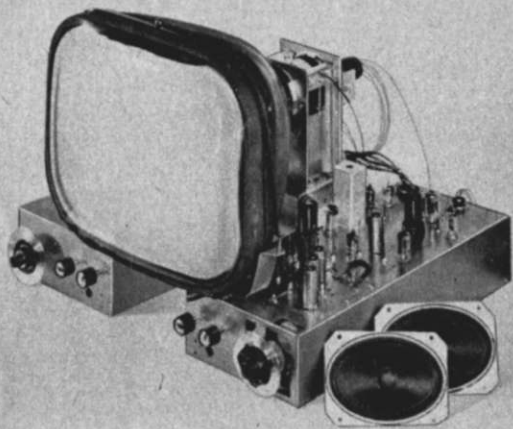


KNIGHT 3-Way "Roamer"

A finer, more powerful 3-way portable at low cost! Plays on 110-120 volts, 50-60 cycles AC, on DC, or from self-contained battery pack. Has tuned RF stage and 3-gang condenser to pick up distant stations ordinarily missed by most portables. Covers entire standard broadcast band from 540 to 1700 kc. Slide-rule dial with neon pilot light. Changeover trigger switch automatically prevents battery drain when operating on AC or DC. 5-inch PM dynamic speaker with extra-heavy, extra-sensitive Alnico V permanent magnet. Has sealed filter for hum-free operation. Automatic volume control. Built-in loop antenna. Latest R.C.A. and Hazeltine licensed superhet circuit uses: 2-1T4, 1-1R5, 1-1U5 and 1-3V4. Includes selenium rectifier for instant warm-up. Luggage-style tan leatherette carrying case, 11½x9x6½". With tubes, less batteries. Shpg. wt., 10 lbs.

6G-400. EACH, 24.95. **22.75**

**NEW BIG PICTURE
TELEVISION CHASSIS**



**NATIONAL TV-16C DELUXE 16" CHASSIS
USES RECTANGULAR PICTURE TUBE**

Deluxe 16" television by National, famous manufacturer of professional communications equipment. Features unique 3-unit design for complete flexibility in cabinet or other custom installation—PLUS picture tube mounting assembly for the latest glass rectangular kinescope! Top quality—maximum flexibility—moderate cost: a super-value in big-picture TV!

For 16" Rectangular Picture Tube. The National chassis uses the latest picture tube—the 16RP4 rectangular kinescope. Now you see the picture *exactly as transmitted*. The transmitted image is rectangular, and the images provided by the 16RP4 also are rectangular. The 13 1/2 x 10 1/4" screen provides a fully linear picture, with the standard 3 by 4 (height to width) aspect ratio. You get the *entire* picture—there are no lost corners due to non-rectangular shape of picture tube and expansion of image beyond the limits of the viewing area. A full 140 square inches of picture—with absolutely every detail that is transmitted. In addition, the 16RP4 is shorter, and the rectangular shape of the tube face requires much less mounting space than a round tube. It's the perfect picture tube for custom installations.

Flexible 3-Unit Design. Three basic units—RF chassis, power supply chassis, and deflection yoke assembly. May be placed side by side, with kinescope in center; may be stacked, with kinescope at side or on top. Install them to meet *your* requirements. This flexibility permits using the National 16" chassis in a console or table cabinet, in any wall-type or other custom installation.

Twin 6" PM Speakers. All the beauty of wide-range FM sound comes to you through the twin-speaker "binaural" sound system. Speakers may be mounted in the positions that will best meet the needs of your installation.

Famous National Engineering. "Inter-Carrier" Sound IF system provides "driftless" tuning. "Buzz" resulting from over-modulation at transmitter eliminated. Improved automatic frequency control for high picture stability—no "jumping" or "tearing" of picture. Has 4 stages of IF, and tuned-grid, tuned-plate RF stage for maximum gain and optimum band width. Uses latest model 12-channel, high-gain turret-type RF tuner. 300-ohm antenna input.

Operating Controls. Contrast, Volume, Channel Selector-Fine Tuning, Vertical-Horizontal Hold, Focus, Brightness—On-Off. Completely wired, assembled and aligned. Supplied with 2 6" PM speakers, 19 tubes, 2 rectifiers and instructions. Power chassis size: 7 3/4 x 8 1/2 x 18". RF chassis 7 3/4 x 7 x 18". For 110-120 volts. 60 cycles, 185 watts. Less picture tube. Shpg. wt., 51 lbs.

97-952. CASH PRICE **18995**

Terms: 19.00 down, 15.09 monthly for 12 months.

5-732, 16RP4—Rectangular Picture Tube. NET **40.00**

For additional listings of high-quality television chassis, see pages 3-5 of ALLIED Catalog No. 120. Also see Catalog No. 120 for complete listings of television antennas, boosters, and other accessories. ALLIED is headquarters for custom television equipment.



PHILMORE CP-30D 16" CUSTOM CHASSIS

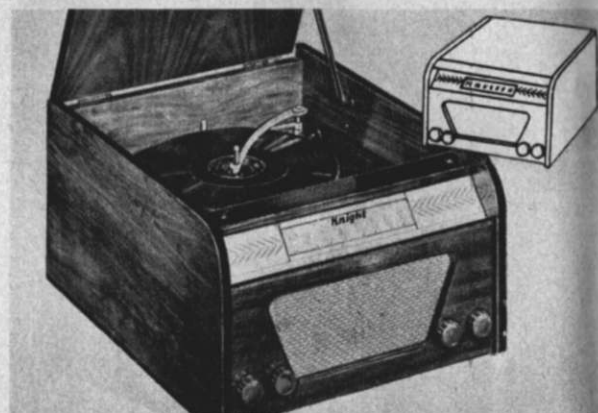
With 630-TS Features and Components

Custom-built 16" television—with circuits based on the famous RCA Model 630-TS television receiver. Completely wired and assembled—ready for immediate use with the 16AP4 picture tube, or the 16RP4 rectangular picture tube listed below, at left. Provides 140 square-inch picture! Ideal for custom installations. Advanced circuit includes RCA 630-TS features: Synchro-lock circuit; pulse-keyed automatic gain control; 2-stage video amplifier and 4-stage picture IF; full 4 mc bandwidth for best picture fidelity. Other features include 5x7" PM speaker for finer tone, voltage doubler for brighter picture, and coverage of TV channels 2-13. Uses Standard Coil tuner. Other components—IF coils, deflection yoke, etc., are RCA products. . . . This is your guarantee that the CP-30D will provide many years of dependable performance! The Philmore 16" CP-30D television receiver is supplied with 27 tubes and 4 rectifiers, mounting brackets, less picture tube. Size, when 16AP4 is mounted: 19 1/4" wide, 20" high, 19 3/4" deep. For 105-125 volts, 60 cycles AC. Shpg. wt., 65 lbs.

97-824. NET **18750**

Terms: 18.75 down, 14.90 monthly for 12 months.

6-797, RCA 16AP4 Picture Tube. NET **51.25**



KNIGHT TABLE RADIO-PHONO

With Latest 3-Speed Changer

Here's complete home entertainment at unbelievably low cost. This KNIGHT model offers a sensitive, clear-toned superhet radio combined with the new Webster-Chicago Model 100 changer which plays all present records. The quick-acting automatic changer operates at 3 speeds: 33 1/3, 45, and 78 rpm. It handles ten 12" or twelve 10" records, or a 1" stack of 7" records. Special lightweight pickup with crystal cartridge gives excellent response from all records. Long-life standard and micro-groove needles are provided. The quality superhet radio tunes all standard broadcasts from 540 to 1730 kc. Surprisingly high audio output is faithfully reproduced by latest type Alnico V PM dynamic speaker. Has sensitive built-in loop antenna, automatic volume control, and variable tone control. RCA-Hazeltine licensed circuit uses 12SA7GT, 12SQ7GT, 12SK-7GT, and 50L6GT. Rectifier is 35Z5GT. The well-styled table model cabinet is handsomely finished in mahogany. Size: 15" W, 9 1/2" H, and 19 1/2" D. For 105-125 volts, 60 cycle AC. Complete with all tubes. Shpg. wt., 35 lbs.

5G-563. NET EACH, 56.75.

LOTS OF 3, EACH

5395

ALLIED—Headquarters for Communications Gear

We supply all Amateur receivers and transmitters from stock. For listings of units not shown on these pages, see pages 8-16, 150 and back cover of ALLIED Catalog No. 120. For outstanding performance, best service and fullest value in every way, buy from ALLIED!



FAMOUS NATIONAL HRO-50

The Professional Communications Receiver



NEW! National's finest communications receiver—retaining every desirable feature of the world-famous HRO series, plus new features as modern as tomorrow. Advanced engineering provides the ultimate in sensitivity, stability and performance.

High-Precision Tuning. Coils supplied afford continuous coverage from 1.7 to 30 mc for commercial use, and exceptionally fine bandspread of Amateur frequencies. Illuminated direct frequency-reading linear scale dial shows only the Amateur band or general coverage range in use. Micrometer-type 500 division main tuning dial has a 20:1 worm drive with an effective scale length of 12 feet. Bandspread on 80, 40, 20 and 11-10 meters covers over 80% of the dial.

Improved Circuit: High frequency oscillator and BFO circuits operate continuously to eliminate drift. Temperature-compensated, voltage-regulated HF oscillator has fine trimmer control. Separate BFO on-off and pitch controls. Built-in power supply isolated from set proper by heat barrier. Other new features: antenna trimmer, pilot-light dimmer. Has provision for panel-controlled 100/1000 kc crystal calibrator and NFM adapter units, available separately.

Time-Tested Features: Six-step crystal filter with phasing control; ANL with threshold control; AVC; standby switch; break-in terminals; RF gain; AF gain; tone control; radio-phonograph switch and high-impedance phono input; 8 and 500 ohm output to speaker; headphone jack; auxiliary power socket; accessory socket; calibrated "S" meter; and universal antenna input. Uses: 2—6BA6 tuned RF amplifiers, 6BE6 1st det/mixer, 6J7 BFO, 6C4 HF oscillator, 2—6K7 IFs, 2—6H6 2nd det/AVC and ANL, 6SJ7 audio, 2—6V6 output. Also has OB2 voltage regulator, 6SN7 phase inverter and 5V4G rectifier. Gray enamel cabinet measures 19 1/4 x 16 1/2 x 10 1/4". With coils, tubes, less speaker. With instructions. For 115 or 230 volts, 50-60 cycles. Shpg. wt., 84 lbs.

97-720. CASH PRICE..... 335.00

Terms: 33.50 down, 26.63 monthly for 12 months.

97-721. HRO-50TS Speaker. A 10" PM type in matching gray cabinet. Shpg. wt., 10 lbs. **NET..... 14.00**

97-718. XCU. 100/1000 kc crystal calibrator. **NET... 19.95**

97-719. NFM-50. Narrow Band FM adapter. **NET... 16.95**



COLLINS 75A-1 COMMUNICATIONS RECEIVER

Famous for uniformly excellent performance on the 80, 40, 20, 15, 11 and 10 meter Amateur bands, the 75A-1 features double conversion and superb stability. Has 50 db image rejection on all bands, and outstanding selectivity. Received bandwidth is variable in 5 steps from 4 kc to 200 cycles at 6 db down from resonance peak. High accuracy and stability result from a quartz crystal in converter circuit and a drift-free VFO in second converter. Band-lit slide-rule dial shows band in use and frequency in megacycles. Covers: 3.2-4.2 mc; 6.8-7.8 mc; 14.0-15.0 mc; 20.8-21.8 mc; 26.0-28.0 mc; 28.0-30.0 mc. Controls: tuning, bandswitch, RF gain, audio gain, CW pitch, on-off-standby, crystal selectivity, crystal phasing, AVC-MVC-CW, and ANL. S-meter is calibrated to 60 db over S9. Universal antenna input. Two watts audio output at 500 or 4 ohms. Tubes: 6AK5 RF, 6SA7 1st mixer, 6SK7 1st IF, 6L7 2nd mixer, 6SJ7 local osc., 6AK5 crystal osc., 6SG7 2nd IF, 6SG7 IF amp., 6SJ7 BFO, 6H6 Det-ANL, 6SJ7 AVC, 6SJ7 audio and 6V6 output. Uses 5Y3GT rectifier. Gray cabinet with chrome-plated trim, 12 1/4 x 21 1/4 x 13 3/4"; speaker in matching cabinet. Tubes and instructions. For 115 volts, 50-60 cycles. Wt., 93 lbs. **375.00**



COLLINS 32V-2 150-WATT TRANSMITTER

TVI reduction is featured in this 150-watt CW, 120-watt AM phone transmitter, along with gang-tuning and bandswitching for 80, 40, 20, 15, 11 and 10 meters. Tuned traps and L-section filter result in freedom from TVI in nearly every installation. VFO uses 70E-8A low-drift oscillator. Dials show band in use and frequency in kilocycles. Entire transmitter, including two power supplies, is built in a 12 1/2 x 21 1/4 x 13 3/4" cabinet identical to that of 75A-1 receiver. Excellent VFO shielding permits full break-in. Also has provisions for microphone press-to-talk. Output for 52-ohm coax, but also matches unbalanced 26-to-300 ohm loads. Male microphone connector, key jack and 2 meters to read current in essential circuits are on front panel, as well as controls for bandswitching, final tuning, antenna loading, VFO tuning, CW-voice, audio gain, low-voltage on-off, tune-operate and power on-off. Tubes: 6SJ7 VFO; 6AK6, 6AG7 and 2—7C5 multipliers; 4D32 final; 6SL7 cascade speech amplifier; 6SN7 driver; 2—807 modulators. Also uses 5Z4 and 2—5R4GY rectifiers, VR75 and 2—OA2 voltage regulators. With all tubes and instructions. For 115 volts 50-60 cycles AC. Shpg. wt., 128 lbs. **575.00**



HALLICRAFTERS S-72 4-BAND PORTABLE

Covers 540 kc to 31 mc in 4 ranges for reception of standard AM broadcast, shortwave, Amateur bands, police, aircraft. Super-powered, quality-engineered, the S-72 is perfect for the Amateur, the SWL—for the whole family to enjoy!

Operates Anywhere. Functions excellently from 105-125 volts DC or 50-60 cycle AC, or batteries. Features automatic change-over from batteries to AC line—no switching or adjustments to make.

4-Band Coverage. 540-1600 kc; 1500-4400 kc; 4.3-13 mc; 12-31 mc. Includes shortwave broadcast, aircraft and police bands—plus 160, 80, 40, 20, 15 and 11-10 meter Amateur bands. Slide-rule dial calibrated for each band. Full electrical bandspread for sharp, pin-point tuning. Controls: Tuning, Bandspread, Band Selector, RF Gain-BFO-AVC. Off-On-Volume and Automatic Noise Limiter.

Tuned RF Stage. Provides high sensitivity and selectivity. Uses 1T4 RF amplifier, 1R5 oscillator, 1U4 mixer, 2—1U4 IF amplifiers, 1U5 detector-amplifier, 1U5 BFO-ANL, 3V4 audio output. Selenium rectifier.

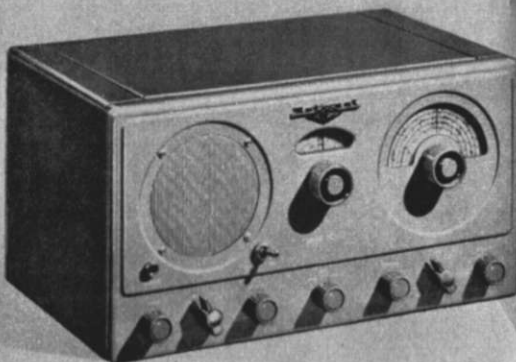
Other Deluxe Features. RF gain control automatically turns on BFO and cuts out AVC for code reception. Has built-in 4½" speaker, broadcast loop and 30' telescoping SW antenna. Terminal for single-wire antenna. Brown leatherette plywood case. With tubes, less battery pack (see below). Size: 12½x14x7¼". Shipping weight, less pack, 16 lbs.

97-505. CASH PRICE **8995**
 Terms: 9.00 down, 7.15 monthly for 12 months.

Model S-72L. Similar to above, but with low frequency 175-400 kc band in place of the 12-31 mc band. Shpg. wt., less pack, 16 lbs.

97-507. CASH PRICE **9995**
 Terms: 10.00 down, 7.95 monthly for 12 months.

80-585. Battery pack. Shpg. wt., 7 lbs. **NET** **3.85**



NATIONAL N-57C ALL-WAVE—GREAT BUY

A popular communications receiver for Amateur or SWL—or for the whole family. It brings you famous National performance—at moderate cost.

Extended Frequency Range. Tunes 540 kc to 55 mc continuously in 5 bands for AM broadcast, domestic and world-wide SW broadcasts, Amateurs, police, marine, and every other type of shortwave radio service. Frequency bands: 540 kc to 1.6 mc; 1.6 to 4.65 mc; 4.65 to 13.5 mc; 13.5 to 35 mc; 35 to 55 mc. Covers all standard Amateur bands—160, 80, 40, 20, 15, 11-10 meters and the popular, exciting Amateur 6 meter VHF band!

Calibrated Tuning. Main and electrical bandspread dials are accurately calibrated for pin-point tuning. All important SW bands are clearly marked on dial.

Exceptional Performance. Tuned RF stage and iron-core IF stages provide selectivity and sensitivity equal to that of many higher-priced communications receivers.

Other Desirable Features: Automatic noise limiter; 2½ watts audio; BFO pitch control; 3-position tone control; phone jack. Built-in power supply and speaker; sockets for battery operation and external "S" meter; terminals for external relay or B+ switch.

Circuit: 1—6SG7 RF; 1—6SB7Y converter; 2—6SG7 IF's; 1—6H6 det-AVC-ANL; 1—6SN7GT audio, BFO; 1—6V6GT output. Also has VR150 regulator and 5Y3GT rectifier. Controls: tuning, bandspread; bandswitch; RF gain; RF trimmer; standby; BFO-MVC-AVC-ANL; BFO pitch; tone; audio and on-off switch. Gray cabinet, 16½x8½x11¼". For 105-130 volts, 50-60 cycles AC. With tubes. Shpg. wt., 33 lbs.

97-595. CASH PRICE **8950**
 Terms: 8.95 down, 7.12 monthly for 12 months.

National NC-57M Long-Wave Receiver

Similar to the National NC-57 communications receiver described above, except that it has an extra band covering the long-wave frequencies of 190 to 410 kc, and general coverage from 510 kc to 35 mc, continuously. An excellent general-purpose receiver, especially suited for marine installations. For operation from 105-125 volts AC or DC. Rear apron receptacle also permits operation from external portable-mobile vibrator type power supply. Shpg. wt., 30 lbs.

97-723. CASH PRICE **89.50**
 Terms: 8.95 down, 7.12 monthly for 12 months.

HALLICRAFTERS S-38A ALL-WAVE VALUE

A four-band receiver with many features usually found only in high-priced communications sets—the S-38A offers you more value per dollar than any other low-price receiver.

Features: Four bands; electrical bandspread; 5" PM speaker; AC or DC operation; smart styling. An unbeatable value!

Wide-Range Coverage: Band 1, 550-1650 kc; Band 2, 1.7-5.1 mc; Band 3, 5-14.5 mc; Band 4, 13-31 mc. Main dial is calibrated in megacycles, with important SW channels clearly marked.

Simplified Controls. Band Selector, Voice-Code, Speaker-Headphones. Standby-Receive, and On-Off-Volume. Phone jacks provided.

AC-DC Superhet Circuit. Uses: 12SA7 converter; 12SK7 IF and BFO; 12SQ7 det.-AVC-first audio amp., 50L6GT, power output. Has 35Z5GT rectifier. Audio output, 1.6 watts.

Handsome Cabinet. Finished in rich satin black. Panel lettering is light gray. Slide-switches are contrasting red. Airodized steel speaker grille in top of cabinet. Dial has green finish. Cabinet size: 12¾" W, 7¾" H, 7¼" D. For 105-125 volts DC, or 40-60 cycle AC; also from 210-250 volts AC or DC with line cord below. Universal antenna input. With tubes. Shpg. wt., 14 lbs.

97-508. NET **3995**
49-580. 220-volt adapter line cord. **NET** **1.41**

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RCA Receiving Tubes

RCA—A GREAT NAME IN RADIO TUBES

RCA Radiotrons are universally known as the quality line of perfect tubes. Sold in the famous, easily identified red-and-black safety-packed cartons. Dependable service is assured by thorough testing of each tube

in every stage of manufacture. ALLIED stocks all RCA tubes; new types are available immediately after release. Order in quantity lots and save money. Tubes may be assorted to make up required quantities.

TUBES MAY BE ASSORTED FOR QUANTITY PRICES. IN LOTS OF 100 AND OVER DEDUCT AN ADDITIONAL 5%.

Tube Type	List Price	NET EACH In Quantities of:		Tube Type	List Price	NET EACH In Quantities of:		Tube Type	List Price	NET EACH In Quantities of:	
		1 to 49	50 to 99			1 to 49	50 to 99			1 to 49	50 to 99
0A2	3.20	1.69	1.57	3E6	2.65	1.40	1.30	6F6GT	1.65	.87	.81
0A3	2.65	1.40	1.30	3LF4	2.65	1.40	1.30	6F7	3.20	1.69	1.57
0A4G	2.65	1.40	1.30	3Q4	2.20	1.16	1.08	6F8G	3.20	1.69	1.57
0B2	3.55	1.88	1.74	3Q5GT	2.40	1.27	1.18	6C6G	2.65	1.40	1.30
0B3/VR90	.....	1.40	1.40	3S4	2.00	1.06	.98	6H6	1.65	.87	.81
0C3	2.65	1.40	1.30	3V4	2.00	1.06	.98	6H6GT	1.65	.87	.81
0D3	2.65	1.40	1.30	5A24	1.35	.71	.66	6J5	1.50	.79	.74
0Y4	4.80	2.54	2.35	5T4	3.90	2.06	1.91	6J5GT	1.50	.79	.74
0Z4	1.65	.87	.81	5U4G	1.50	.79	.74	6J6	2.90	1.53	1.42
0Z4G	1.65	.87	.81	5V4G	2.40	1.27	1.18	6J7	2.00	1.06	.98
1A3	2.20	1.16	1.08	5W4	1.65	.87	.81	6J7G	2.00	1.06	.98
1A4P	3.90	2.06	1.91	5W4GT	1.65	.87	.81	6J7GT	2.00	1.06	.98
1A5GT	1.80	.95	.88	5X4G	1.80	.95	.88	6J8G	3.20	1.69	1.57
1A6	3.20	1.69	1.57	5Y3G	1.05	.56	.51	6K5GT	2.40	1.27	1.18
1A7GT	2.00	1.06	.98	5Y3GT	1.05	.56	.51	6K6GT	1.50	.79	.74
1A65	2.20	1.16	1.08	5Y4G	1.50	.79	.74	6K7	1.65	.87	.81
1AD5	2.20	1.16	1.08	5Y4GT	1.50	.79	.74	6K7G	1.65	.87	.81
1B3GT	2.65	1.40	1.30	5Z3	1.80	.95	.88	6K7GT	1.65	.87	.81
1B4P	3.90	2.06	1.91	5Z4	2.65	1.40	1.30	6K8	2.40	1.27	1.18
1B5/25S	3.20	1.69	1.57	6A3	3.20	1.69	1.57	6K8G	2.90	1.53	1.42
1B7GT	3.20	1.69	1.57	6A5G	3.90	2.06	1.91	6K8GT	2.40	1.27	1.18
1C5GT	2.20	1.16	1.08	6A6	2.65	1.40	1.30	6L5	2.65	1.40	1.30
1C6	3.20	1.69	1.57	6A7	2.00	1.06	.98	6L6G	3.55	1.88	1.74
1C7G	3.20	1.69	1.57	6A8	2.00	1.06	.98	6L6G	2.90	1.53	1.42
1D5GP	3.90	2.06	1.91	6A8G	2.00	1.06	.98	6L6GA	2.90	1.53	1.42
1D7G	3.20	1.69	1.57	6A8GT	2.00	1.06	.98	6L7	2.40	1.27	1.18
1D8GT	3.90	2.06	1.91	6A84	2.00	1.06	.98	6L7G	2.90	1.53	1.42
1E5GP	3.90	2.06	1.91	6A85/6N5	2.65	1.40	1.30	6N6G	3.90	2.06	1.91
1E7G	3.90	2.06	1.91	6A87	3.20	1.69	1.57	6N7	2.40	1.27	1.18
1E7GT	3.90	2.06	1.91	6AC5GT	2.90	1.53	1.42	6N7GT	2.40	1.27	1.18
1E8	2.20	1.16	1.08	6AC7	2.90	1.53	1.42	6P5GT	2.40	1.27	1.18
1F4	2.65	1.40	1.30	6AD7G	3.20	1.69	1.57	6Q7	2.00	1.06	.98
1F5G	2.65	1.40	1.30	6AF6G	2.65	1.40	1.30	6Q7G	1.80	.95	.88
1F6	3.90	2.06	1.91	6AG5	2.65	1.40	1.30	6Q7GT	1.80	.95	.88
1F7G	3.90	2.06	1.91	6AG7	3.20	1.69	1.57	6R7	2.65	1.40	1.30
1G4GT	2.65	1.40	1.30	6AH6	3.90	2.06	1.91	6R7GT	2.65	1.40	1.30
1G5G	2.65	1.40	1.30	6AK5	3.90	2.06	1.91	6R8	2.65	1.40	1.30
1G6GT	2.65	1.40	1.30	6AK6	2.40	1.27	1.18	6S4	1.65	.87	.81
1H4G	2.20	1.16	1.08	6AL5	2.00	1.06	.98	6S7	2.65	1.40	1.30
1H5GT	1.65	.87	.81	6AL7GT	2.65	1.40	1.30	6S7G	3.20	1.69	1.57
1H6G	3.20	1.69	1.57	6AQ5	2.00	1.06	.98	6S8GT	2.65	1.40	1.30
1J6GT	3.20	1.69	1.57	6AQ6	1.80	.95	.88	6SA7	1.65	.87	.81
1L4	2.00	1.06	.98	6AQ7GT	2.40	1.27	1.18	6SA7GT	1.65	.87	.81
1L6	2.65	1.40	1.30	6AR5	1.65	.87	.81	6SB7G	2.40	1.27	1.18
1LA4	2.65	1.40	1.30	6AS5	2.00	1.06	.98	6SC7	2.00	1.06	.98
1LA6	2.65	1.40	1.30	6AS7G	6.75	4.53	4.53	6SC7GT	1.80	.95	.88
1LB4	2.65	1.40	1.30	6AT6	1.50	.79	.74	6SD7GT	2.90	1.53	1.42
1LC5	2.65	1.40	1.30	6AU5GT	2.65	1.40	1.30	6SF5	1.65	.87	.81
1LC6	2.65	1.40	1.30	6AU6	2.00	1.06	.98	6SF5GT	1.80	.95	.88
1LD5	2.65	1.40	1.30	6AV6	1.50	.79	.74	6SF7	2.00	1.06	.98
1LE3	2.65	1.40	1.30	6AX5GT	1.35	.71	.66	6SG7	2.00	1.06	.98
1LG5	2.65	1.40	1.30	6B4G	3.20	1.69	1.57	6SH7	2.20	1.16	1.08
1LH4	2.65	1.40	1.30	6B5	3.20	1.69	1.57	6SH7GT	2.20	1.16	1.08
1LN5	2.65	1.40	1.30	6B6G	2.20	1.16	1.08	6SJ7	1.65	.87	.81
1N5GT	2.00	1.06	.98	6B7	3.20	1.69	1.57	6SJ7GT	1.65	.87	.81
1P5GT	2.65	1.40	1.30	6B8	3.20	1.69	1.57	6SK7	1.65	.87	.81
1Q5GT	2.65	1.40	1.30	6B8G	3.20	1.69	1.57	6SK7GT	1.65	.87	.81
1R4	2.20	1.16	1.08	6BA6	1.80	.95	.88	6SL7GT	2.40	1.27	1.18
1R5	2.00	1.06	.98	6BA7	2.40	1.27	1.18	6SN7GT	2.20	1.16	1.08
1S4	2.40	1.27	1.18	6BC5	2.00	1.06	.98	6S07	1.50	.79	.74
1S5	1.80	.95	.88	6BD6	2.00	1.06	.98	6SQ7GT	1.50	.79	.74
1T4	2.00	1.06	.98	6BE6	1.80	.95	.88	6SR7	1.80	.95	.88
1T5GT	2.65	1.40	1.30	6BF6	1.65	.87	.81	6SR7GT	1.80	.95	.88
1T6	2.20	1.16	1.08	6BG6G	4.80	2.54	2.35	6S57	1.80	.95	.88
1U4	2.00	1.06	.98	6BH6	2.00	1.06	.98	6S7G	2.65	1.40	1.30
1U5	1.80	.95	.88	6BJ6	2.00	1.06	.98	6SV7	2.90	1.53	1.42
1V	2.20	1.16	1.08	6BN6	3.20	1.69	1.57	6SZ7	2.20	1.16	1.08
1V2	1.50	.79	.74	6BQ6GT	3.20	1.69	1.57	6T7G	3.20	1.69	1.57
1X2	2.65	1.40	1.30	6C4	1.65	.87	.81	6T8	2.90	1.53	1.42
2A3	3.20	1.69	1.57	6C5	1.65	.87	.81	6U5/6G5	2.00	1.06	.98
2A4G	3.20	1.69	1.57	6C5GT	1.65	.87	.81	6UGGT	2.00	1.06	.98
2A5	2.20	1.16	1.08	6C6	2.00	1.06	.98	6U7G	1.80	.95	.88
2A6	2.65	1.40	1.30	6C8G	3.20	1.69	1.57	6V6	3.20	1.69	1.57
2A7	2.65	1.40	1.30	6CB6	2.00	1.06	.98	6V6GT	2.00	1.06	.98
2B7	2.65	1.40	1.30	6CD6G	6.00	3.18	2.94	6W4GT	1.80	.95	.88
2E5	2.65	1.40	1.30	6D6	1.65	.87	.81	6W7G	2.65	1.40	1.30
2V3G	5.25	2.93	2.93	6D8G	3.20	1.69	1.57	6X4	1.50	.79	.74
2X2A	4.35	2.30	2.13	6E5	2.20	1.16	1.08	6X5	2.65	1.40	1.30
3ABGT	4.80	2.54	2.35	6F5	1.65	.87	.81	6X5GT	1.50	.79	.74
3B7/1291	2.65	1.40	1.30	6F5GT	1.65	.87	.81	6Y6G	2.40	1.27	1.18
3C6/XXB	3.20	1.69	1.57	6F6	2.00	1.06	.98	6Z7G	3.90	2.06	1.91
3D6/1299	2.65	1.40	1.30	6F6G	1.65	.87	.81	6ZY5G	2.20	1.16	1.08

RCA Receiving Tubes

GUARANTEED FOR 6 FULL MONTHS

When you buy RCA Radiotrons, you buy with confidence. All receiving tubes are guaranteed for six months from date of purchase. We will replace any tube that does not give efficient performance for a full 6-month

period. (This does not, of course, apply to burned-out or broken tubes.) For complete listing of television picture tubes, see page 12 of this supplement. Average shpg. wt., per tube 4 oz.; per 10 tubes, 2 1/4 lbs.

TUBES MAY BE ASSORTED FOR QUANTITY PRICES. IN LOTS OF 100 AND OVER DEDUCT AN ADDITIONAL 5%.

Tube Type	List Price	NET EACH In Quantities of		Tube Type	List Price	NET EACH In Quantities of		Tube Type	List Price	NET EACH In Quantities of	
		1 to 49	50 to 99			1 to 49	50 to 99			1 to 49	50 to 99
7A4/XXL	2.00	1.06	.98	12SA7	1.65	.87	.81	34	3.20	1.69	1.57
7A5	2.20	1.16	1.03	12SA7GT	1.65	.87	.81	35/51	2.00	1.06	.98
7A6	1.80	.95	.88	12SC7	2.20	1.16	1.08	35A5	1.80	.95	.88
7A7	.40	.95	.88	12SF5	1.80	.95	.88	35B5	2.00	1.06	.98
7A8	.80	.95	.88	12SF5GT	2.00	1.06	.98	35C5	2.00	1.06	.98
7AD7	3.20	1.69	1.57	12SF7	2.00	1.06	.98	35L6GT	1.65	.87	.81
7AF7	1.80	.95	.88	12SG7	2.00	1.06	.98	35W4	1.25	.66	.61
7AG7	2.20	1.16	1.03	12SH7	2.20	1.16	1.08	35Y4	1.80	.95	.88
7AH7	2.20	1.16	1.03	12SJ7	1.65	.87	.81	35Z3	1.80	.95	.88
7B4	1.80	.95	.88	12SJ7GT	1.65	.87	.81	35Z4GT	1.50	.79	.74
7B5	1.80	.95	.88	12SK7	1.65	.87	.81	35Z5GT	1.25	.66	.61
7B6	1.80	.95	.88	12SK7GT	1.65	.87	.81	35Z6G	2.65	1.40	1.30
7B7	1.80	.95	.88	12SL7GT	2.40	1.27	1.18	36	2.65	1.40	1.30
7B8	1.80	.95	.88	12SN7GT	2.20	1.16	1.08	37	1.80	.95	.88
7C4	2.65	1.40	1.30	12SQ7	1.50	.79	.74	38	2.20	1.16	1.08
7C5	1.80	.95	.88	12SQ7GT	1.50	.79	.74	39/44	2.65	1.40	1.30
7C6	1.80	.95	.88	12SR7	2.20	1.16	1.08	40	2.20	1.16	1.08
7C7	1.80	.95	.88	12SR7GT	2.20	1.16	1.08	41	1.65	.87	.81
7E5/1201	2.65	1.40	1.30	12Z3	2.65	1.40	1.30	42	1.65	.87	.81
7E6	2.20	1.16	1.08	14A4	2.65	1.40	1.30	43	1.65	.87	.81
7E7	2.65	1.40	1.30	14A5	3.90	2.06	1.91	45	1.65	.87	.81
7F7	2.20	1.16	1.08	14A7/12B7	2.20	1.16	1.08	45Z3	1.80	.95	.88
7F8	2.65	1.40	1.30	14AF7	2.40	1.27	1.18	45Z5GT	1.80	.95	.88
7G7/1232	2.65	1.40	1.30	14B6	2.20	1.16	1.08	46	2.65	1.40	1.30
7H7	2.00	1.06	.98	14B8	2.20	1.16	1.08	47	2.40	1.27	1.18
7J7	2.65	1.40	1.30	14C5	2.65	1.40	1.30	49	2.65	1.40	1.30
7K7	2.65	1.40	1.30	14C7	2.40	1.27	1.18	50	3.90	2.06	1.91
7L7	2.65	1.40	1.30	14E6	2.20	1.16	1.08	50A5	2.20	1.16	1.08
7N7	2.20	1.16	1.08	14E7	2.65	1.40	1.30	50B5	2.00	1.06	.98
7O7	1.80	.95	.88	14F7	2.20	1.16	1.08	50C5	2.00	1.06	.98
7R7	2.20	1.16	1.08	14F8	2.65	1.40	1.30	50C6G	2.90	1.53	1.42
7S7	2.65	1.40	1.30	14H7	2.40	1.27	1.18	50L6GT	1.65	.87	.81
7V7	2.65	1.40	1.30	14J7	2.65	1.40	1.30	50X6	2.20	1.16	1.08
7W7	2.65	1.40	1.30	14N7	2.65	1.40	1.30	50Y6GT	1.80	.95	.88
7X7	2.65	1.40	1.30	14Q7	2.20	1.16	1.08	50Y7GT	2.00	1.06	.98
7Y4	1.80	.95	.88	14R7	2.65	1.40	1.30	52	3.90	2.06	1.91
7Z4	1.80	.95	.88	14S7	2.65	1.40	1.30	53	2.65	1.40	1.30
10	3.90	2.06	1.91	14W7	2.65	1.40	1.30	55	2.20	1.16	1.08
12A6	2.40	1.27	1.18	14X7	2.65	1.40	1.30	56	1.80	.95	.88
12A7	3.20	1.69	1.57	14Y4	2.40	1.27	1.18	57	2.00	1.06	.98
12A8GT	2.00	1.06	.98	19	3.20	1.69	1.57	58	2.00	1.06	.98
12AH7GT	2.65	1.40	1.30	19BG6G	6.00	3.18	2.94	59	3.55	1.88	1.74
12AL5	2.00	1.06	.98	19J6	3.20	1.69	1.57	70L7GT	3.90	2.06	1.91
12AT6	1.50	.79	.74	19T8	2.90	1.53	1.42	71A	2.00	1.06	.98
12AT7	2.90	1.53	1.42	22	3.20	1.69	1.57	75	1.65	.87	.81
12AU6	2.00	1.06	.98	24A	2.20	1.16	1.08	76	1.65	.87	.81
12AU7	2.40	1.27	1.18	25A6	3.20	1.69	1.57	77	1.65	.87	.81
12AV6	1.50	.79	.74	25AGG	2.65	1.40	1.30	78	1.65	.87	.81
12AW6	2.65	1.40	1.30	25A7GT	7.40	3.92	3.63	79	2.65	1.40	1.30
12AX7	2.40	1.27	1.18	25AC5GT	2.90	1.53	1.42	80	1.15	.61	.56
12AY7	6.00	3.18	2.94	25BQ6GT	3.20	1.69	1.57	81	3.90	2.06	1.91
12BA6	1.80	.95	.88	25CGG	2.90	1.53	1.42	82	2.65	1.40	1.30
12BA7	2.40	1.27	1.18	25L6	3.20	1.69	1.57	83	2.65	1.40	1.30
12BD6	2.00	1.06	.98	25L6GT	1.65	.87	.81	83V	3.20	1.69	1.57
12BE6	1.80	.95	.88	25W4GT	1.80	.95	.88	84/6Z4	1.80	.95	.88
12BF6	1.65	.87	.81	25Y5	2.90	1.53	1.42	85	2.20	1.16	1.08
12C8	3.20	1.69	1.57	25Z5	1.50	.79	.74	89	2.20	1.16	1.08
12F5GT	1.80	.95	.88	25Z6	2.20	1.16	1.08	V99	3.90	2.06	1.91
12H6	1.80	.95	.88	25Z6GT	1.35	.71	.66	X99	3.90	2.06	1.91
12J5GT	1.50	.79	.74	26	1.80	.95	.88	117L7/M7GT	3.90	2.06	1.91
12J7GT	2.00	1.06	.98	27	1.50	.79	.74	117N7GT	3.90	2.06	1.91
12K7GT	1.65	.87	.81	30	2.00	1.06	.98	117P7GT	3.90	2.06	1.91
12K8	2.40	1.27	1.18	31	2.65	1.40	1.30	117Z3	1.50	.79	.74
12K8GT	2.40	1.27	1.18	32	3.55	1.88	1.74	117Z4GT	2.90	1.53	1.42
12Q7GT	1.80	.95	.88	32L7GT	3.20	1.69	1.57	117Z6GT	2.40	1.27	1.18
12S8GT	2.65	1.40	1.30	33	3.20	1.69	1.57	FM1000	3.20	1.69	1.57

For a Complete Listing of Television Picture Tubes, See Page 12.

NEW RCA TUBE MERCHANDISING AIDS

RCA FIREBALL FLOODLIGHT—FIG. A
A brilliant fluorescent light that serves and sells. Can be used over work bench, in the window, etc. Gray Hammerloid finish. Size, 32x6x6 1/2". For 110-120 v., 60 cycles AC. Complete with 25-watt lamp and 12-ft. chain. **No Charge** with order for 60 tubes. Wt., 10 lbs. **38-495. Type 2F360. NET.....9.95**

TECHNICAL TV WALL CHART—FIG. B
Giant chart containing selected photos from RCA Pict-O-Guide. Provides quick reference to TV service data. 39x30". **No Charge** with order for 5 tubes. Shpg. wt., 2 lbs. **38-474. Type 2F972. NET.....35c**

TELEVISION MICROSTICK—FIG. C

Provides a rapid and reasonably accurate means of determining the following in television reception: (1) the bandwidth of any TV receiver; (2) calibration of the vertical wedge in any test pattern; (3) the beat frequency of interference; (4) the additional air-path distance traveled by reflected signals (echoes or ghosts); (5) frequency of "ringing" in video circuits; (6) duration of sync pulses, horizontal blanking and other types of video signals. Use during test pattern transmissions. Works with most picture tubes. Pocket size. Transparent plastic. **No Charge** with order for 15 tubes. Shpg. wt., 4 oz. **38-475. Type 2F975. NET.....1.00**



TV and Special Purpose Tubes

Made by RCA
RAYTHEON

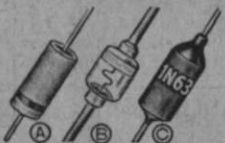
RAULAND
DUMONT



TELEVISION PICTURE TUBES

This listing includes the new rectangular, Aluminized, and "Black" or Filterglass tubes, the latest in modern kinescope engineering. Aluminized tubes have a thin layer of aluminum over the screen face for greater brilliance. This process prevents the formation of an ion bluish, eliminating the need for an ion trap magnet. Rauland's "Black" Luxide and RCA's Filterglass tubes have special filtering material built into glass face which increases picture contrast. Room lighting has less effect and halation is reduced. These tube types are interchangeable with white screen types. Types 14BP4, 16RP4 and 16TP4 are rectangular picture tubes; all others are round. 14BP4 provides a useful screen size of 12 1/2 x 9 3/4". 16RP4 and 16TP4, 10 1/2 x 13 3/4". *Indicates metal cone tubes. 16EP4, 16EP4-A, and 16GP4 are the shorter tubes. The 16EP4 types are 3" shorter than the standard. 16AP4, 16GP4 is 4 1/2" shorter than the 16AP4. All tube types listed have magnetic focus and deflection, except 1 which have electrostatic focus and deflection, and 1 which have electro-static focus and magnetic deflection. Express only.

Mfrs. Type	Size	Type	Manu- facturer	Stock No.	List Price	NET EACH	Mfrs. Type	Size	Type	Manu- facturer	Stock No.	List Price	NET EACH
3KP4†	3"	White	R.C.A.	6-556	\$18.00	13.50	12UP4-A*	12 1/2"	Black	Rauland	7-356	\$35.00	26.25
5TP4†	5"	White	R.C.A.	6-781	54.60	40.90	14BP4	14"	Black	Rauland	7-358	37.50	28.15
7DP4†	7"	White	R.C.A.	6-778	29.75	23.80	15DP4	15"	White	Dumont	7-327	53.00	39.75
7IP4†	7"	White	R.C.A.	6-795	22.50	16.88	16AP4*	16"	White	R.C.A.	6-797	68.30	51.25
7IP4†	7"	White	Raytheon	5-733	22.50	16.88	16AP4-A*	16"	Filterglass	R.C.A.	6-799	68.30	51.25
8BP4†	8 1/2"	White	Raytheon	5-720	27.75	20.85	16AP4-A*	16"	Black	Raytheon	7-350	68.30	51.25
10BP4	10 1/2"	White	R.C.A.	6-780	34.75	26.00	16EP4*	16"	White	Rauland	7-351	68.30	51.25
10BP4A	10 1/2"	Black	Raytheon	5-734	34.75	26.00	16EP4-A*	16"	White	Rauland	7-352	68.30	51.25
10EP4†	10 1/2"	White	Rauland	7-118	35.00	26.80	16FP4	16"	White	Dumont	7-325	53.50	40.25
10EP4†	10 1/2"	Aluminized	Raytheon	7-208	60.00	48.50	16GP4*	16"	Filterglass	R.C.A.	5-736	53.50	40.00
12KP4-A	12 1/2"	Black-Alum.	Raytheon	7-353	37.00	28.50	16GP4*	16"	Black	Raytheon	5-736	53.50	40.00
12LP4-A	12 1/2"	White	R.C.A.	7-211	35.00	26.25	16LP4	16"	White	Raytheon	5-730	68.30	51.25
12LP4-A	12 1/2"	Filterglass	R.C.A.	6-558	35.00	26.25	16LP4-A	16"	Black	Raytheon	5-731	68.30	51.25
12LP4-A	12 1/2"	Black	Raytheon	5-735	35.00	26.25	16RP4	16"	Black	Raytheon	5-732	53.50	40.00
12LP4-A	12 1/2"	Black	Rauland	7-354	35.00	26.25	16TP4	16"	Black	Rauland	7-357	53.50	40.00
12OP4	12 1/2"	White	Dumont	7-324	35.00	26.25	19AP4*	19"	White	Dumont	7-326	100.00	75.00
12RP4	12"	White	Dumont	7-329	34.00	25.50	19AP4-A	19"	Black	Dumont	7-328	100.00	75.00
12UP4*	12 1/2"	White	Rauland	7-355	35.00	26.25	20BP4	20"	White	Dumont	7-318	270.00	199.50



GERMANIUM DIODES

Raytheon diodes have smaller insulated bodies with glass-to-metal seals;ylvania diodes moisture-proofed in sealed glass cartridges; G.E. diodes have platinum whisker welded to germanium surface. For other diodes, see p. 38 of Catalog No. 120. Av. shpg. wt., 2 oz.

RAYTHEON CRYSTAL DIODES—FIG. A

Type CK705 is a general purpose diode similar to 1N34; type CK707 is similar to 1N63; type CK708 is similar to 1N38. All have shunt capacitance of 1 mmf. Size, 3/64" dia. x 3/32".
5-725. Type CK705. NET 85c
5-726. Type CK707. NET 3.15
5-727. Type CK708. NET 2.05

SYLVANIA "SEALED-GLASS" DIODES—FIG. B

1N34A is general purpose type. 1N58A is 100-volt diode. Both have shunt capacitance of 1 mmf. Size, 1/4" dia. x 7/8".
7-236. Type 1N34A. NET 85c
7-237. Type 1N58A. NET 2.05

G.E. WELDED DIODES—FIG. C

General purpose diodes. 1N48 is electrically interchangeable with 1N34 diode. 1N63 has 125 inverse volt rating. Both have min. forward current of 4 ma at 1 volt. Shunt capacitance, 0.8 mmf. Size, 1/32" dia. x 1/16".
7-250. Type 1N48. NET 85c
7-249. Type 1N63. NET 3.70

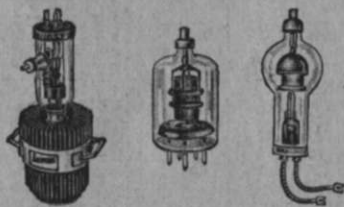


TUBE COOLING FAN

Non-radio interfering. Sturdy motor. Mounts easily below tube socket or alongside tube to keep seals cool. Overall size: 2 1/2 x 2 1/4 x 2 1/4". Mtg. ctrs., 2 1/8", 1/4" dia. shaft is 3/8" long. 4-blade fan is 2 1/2" diam. Wt., 1/2 lb. For 110 volts, 50-60 cycles AC.
72-702. Motor only. NET 1.85
72-703. 4-Blade Fan only. 3 oz. NET 24c

SEE CATALOG 120

For complete listings of Special Purpose and Power-Type tubes, see pages 36 to 39 of ALLIED Catalog No. 120.



AMPEREX ELECTRONIC TUBES

The tubes listed below are widely used in broadcasting, communications, industrial electronics, power rectification, electro-medical equipment, Amateur gear, and countless other special purpose applications where small size and rugged construction are required. Shown above are type 891-R (forced air-cooled AF-RF triode amplifier and oscillator), type AX4-125A (forced air-cooled AF-RF tetrode amplifier and oscillator), and type 857-B (radiation-cooled mercury-vapor rectifier). Types AX4-125A and AX4-250A have the new Magniorb anodes to provide improved gettering and heat dissipation. *Denotes tubes interchangeable with Western Electric types.

Mfrs. Type	Stock No.	NET EACH
3B28	7-821	9.00
4B32	7-822	12.00
6F6-105	7-870	48.00
213-B*	7-825	90.00
242-C*	7-826	13.50
249-C*	7-827	9.00
250-TH	7-829	30.00
250-TL	7-828	30.00
255-B*	7-830	138.15
258-B*	7-831	11.00
266-B*	7-832	209.00
315-A*	7-833	38.60
321-A*	7-834	90.00
343-A*	7-835	350.00
357-B*	7-836	96.50
450-TH	7-838	70.00
450-TL	7-837	70.00
504-R	7-839	115.00
575-A	7-812	21.00
673	7-840	21.00
807	7-841	2.50
810	7-842	4.00
813	7-808	16.00
829-B	7-843	16.25
832-A	7-844	12.90
833-A	7-809	49.50
838	7-810	13.75
845	7-811	3.75
866-A	7-813	2.00
872-A	7-814	5.00
889-A	7-845	210.50
889-RA	7-846	285.00
891-R	7-847	362.00
892	7-820	223.00
892-R	7-818	362.00
AX4-125-A	7-823	27.50
AX4-250-A	7-824	37.50
8008	7-848	8.25
AX-9903	7-871	15.00

AMGLO PHOTO-FLASH LAMPS

Flash tubes below are for high-speed photographic equipment. Flash duration approximately 1/10,000 of a second. Gas-filled construction with open-end spiral feature gives long life; eliminates sputtering and decreasing output even after thousands of flashes. May be used for color work without filter. High-intensity, blue-white light closely approximates daylight. Light intensity proportional to watt-second rating. Color temperature, 6500° Kelvin. Av. shpg. wt., 1 lb.



Type 5804X. Relay type, 4 prong. For portables and small A.C. units, 100 watt-seconds. Recommended voltages, 2250-2850. Use with capacitance of 15-32 mfd. Replaces 48R4X. NET 13.72

Type 68N9T. Trigger type, 5 prong. For portable units with electrolytic capacitors, 200 watt-seconds. Recommended voltage, 900-1000. Use with capacitance of 100-400 mfd. NET 14.21

Type 78M9T. Trigger type, 5 prong, 300 watt-seconds. Recommended voltage, 900 to 1000. Designed for use with capacitance of 100 to 600 mfd. Has metal base with ceramic insert to prevent high-voltage breakdown. Glass bulb. NET 13.23

Type 88M9T. Electrically same as 78M9T but with bakelite base and plastic bulb. NET 12.74

AMGLO ULTRA REFLECTORS

Especially designed for use with Amglo photo-flash lamps. Provide 100% to 300% higher light readings than most other reflectors. Give off no "hot spots" or other irregular areas of intensity. Non-tarnishing metal construction. With stand type mount. Less cord and plug. Shpg. wt., 2 lbs.



78-665. For 4-prong lamps. NET 9.31
78-666. For 5-prong lamps. NET 9.31

AMGLO 55 W-S BASIC FLASH-KIT

This easy-to-build kit makes a portable high-speed photo-flash unit equal in quality and overall performance to wired units selling for considerably more. Can be used with all photo-flash cameras. Easy to operate—batteries have cable and plug to facilitate removal for charging. Unit can be completely assembled in less than one hour. All critical parts factory wired. Aluminum case, only 4x8x10 1/4". With 55 watt-second condenser, batteries, and all necessary parts. Write for descriptive literature. Shipping weight, 10 lbs.

78-670. NET 79.13
 7.31 down, 6.29 monthly for 12 months.

Special Purpose Equipment

LATEST RADIOACTIVE ORE LOCATORS



NUCLEAR MODEL 1613 RADIOACTIVITY DEMONSTRATOR

A new radioactivity detector for classroom demonstrations. Detects and measures intensity of beta and gamma radiation. With accessories to show how radioactivity is absorbed, how Geiger tubes function, how radioactivity is scattered, how to determine types and amounts of different radiation from one source, etc. Front panel meter indicates count rate. Has built-in speaker and neon light that click and flash simultaneously. Ideally suited as a low-cost radioactivity monitor for laboratory and industrial use. Glass-walled counter tube is mounted in a metal probe with three feet of cable. Includes demonstration board scaled to 62 centimeters and equivalent inches; notched for mounting probe, absorbers, two beta and gamma sources that are perfectly safe to handle, counter tube, board and manual. Size, 14x8x10". For 115 volts, 60 cycles AC. Shipping weight, 28 lbs. **77-068. NET.....136.71**

THE VERSATILE "UNICHASSIS" With Unilead Set



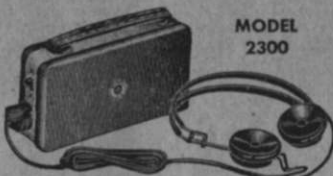
First Modern Breadboard Chassis Saves Time on Experimental Circuits

Here's a new unit, the UniChassis, that saves a great deal of valuable time and material setting up temporary circuits in experimental work. It's a special electronic all-metal "breadboard" chassis with an ingenious system of leads and fittings which can be used for making most of the electrical hookups required in experimental laboratories. Any number of these chassis may be used together in more complex circuits. In addition, the UniChassis is excellent for educational work, enabling instructors and students to set up circuits quickly and easily. These chassis can be stripped and used over and over again. Thousands of different circuits have been built up and tested, and the UniChassis has been evolved from their requirements.

UniChassis. Constructed of rust-resistant sheet steel, with 5 bus bars with solder-filled troughs running the length of the chassis. Holes in the vertical panel provide means of mounting pots, capacitors, etc.. Socket holes and tapped mounting holes for 8 standard tubes and 8 miniature tubes, or plug-in components, are also provided, plus tie points for additional external connections. Mounting holes facilitate ganging of UniChassis units.

Unilead Set. Set of leads for the UniChassis. This consists of 22 various-sized leads which plug into the ends of the bus bars, assorted clips, plugs, prods, and connectors, plus adapters for the miniature tube sockets. Size, assembled, 11x7x8 1/4". Shpg. wt. 6 lbs.

86-575. UniChassis with complete Unilead Set. EACH.....22.50
In Lots of 6, EACH.....21.35



NUCLEAR URANIUM "SNIFFER"

Cash in on Government rewards for finding radioactive minerals with this portable "Geiger counter" that detects gamma radiations. Built primarily for location of uranium ores, the Nuclear "Sniffer" can also be used in laboratories to locate lost radium needles, to detect contaminated areas, and for training purposes. Easy to operate—requires no special training. Merely put on headphones and carry unit by handle. Clicking sound heard in headphones increases in frequency when a strong radioactive source is approached. No separate probe needed. Unit can be used to probe directly at suspected ore deposits. Size: 7 3/4" L, 4 3/4" H, 2 1/4" D, and weighs 2 lbs. Uses Geiger-Mueller tube. Has built-in amplifier and high-voltage vibrator supply. Powered by 2, easily replaceable, ordinary flashlight cells. Complete with headphones, batteries, tubes, instructions and a U. S. Gov't. pamphlet on prospecting for uranium (see below). Shpg. wt., 4 lbs. **77-065. NET.....53.41**

37-892. Prospecting for Uranium. Published by the U. S. Atomic Energy Commission and the U. S. Geological Survey. Contains valuable information on location and identification of uranium deposits. 123 pages. 4 1/2 x 5 1/4". **Postpaid in U.S.A.....30c**

KNIGHT TELEVISION DYNAMIC DEMONSTRATOR

Developed by RCA

The KNIGHT TV Demonstrator is an exact duplicate of the original model developed by John Meagher, RCA's nationally famous television specialist. It is built for ALLIED to RCA specifications, and major components are RCA products. Schools, colleges and manufacturers faced with the problem of teaching television in the fastest, most effective manner—will find this unique teaching aid invaluable.

A "Working Schematic"

The TV Demonstrator is a "working schematic" of a complete, 16" television receiver. More than 200 parts are hooked up by jack-and-plug connections which permit quick removal and/or substitution—to simulate parts failures. All tuning and critical adjustments are accessible from the front panel, enabling the operator to simulate any kind of receiver trouble. The resultant effect can then be observed on the picture tube, and analyzed.

"Stage-by-Stage" Analysis

The exact function of every section of a modern TV receiver can be demonstrated easily and clearly on this remarkable "bread-board" model. The panel is divided into sections corresponding to the various sections of a TV receiver. Thus, as the signal is hooked up by jack-and-plug connections, all circuit stages are clearly defined, and the points where changes in signal character take place are easily observed. All parts are mounted next to the corresponding schematic symbols printed on the panel.

Teaches Use of Test Equipment

Learning the proper use of test equipment in servicing TV receivers is greatly simplified by the TV Demonstrator. When and how to use such units as the sweep generator, the TV marker generator, the oscilloscope, etc., can be very effectively demonstrated. Stages can easily be thrown out of alignment, and the proper test units used to realign them. All aspects of modern "trouble-shooting" are easily shown with this KNIGHT TV Demonstrator.

"MICROCIRCUIT" PRINTED CIRCUITS KIT

Now design miniature equipment and paint your own radio circuits. Contains everything required to apply "microcircuit" techniques to your own circuits. Consists of silver conducting, copper conducting, and low, medium and high resistance paints, insulating lacquer, solvent, and brush cleaner. Includes manual, "Design and Repair of Printed Circuits." With this kit, you can make resistors, capacitors, connecting wires, chokes, and coils. Actual working circuits can be made with the addition of a few standard radio parts. With brush applicator. Wt., 1 1/4 lbs. **43-070. NET.....7.12**

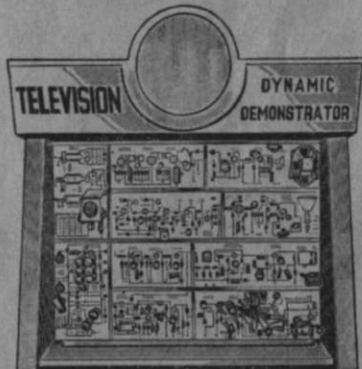
37-893. Printed Circuit Techniques. A general treatise of this new technique published by U. S. Dept. of Commerce. **Postpaid in U.S.A.....25c**



MODEL
K-803

NEW KELEKET "PROSPECTOR"

New, improved version of the famous Keleket "Prospector." The Model K-803 is designed primarily for use as a radioactive ore detector by prospectors. It may also be used by hospitals and laboratories for inspection of contaminated areas and equipment as well as detection of misplaced radium needles. Excellent for schoolroom demonstrations of radioactivity detection. The "Prospector" is a compact unit constructed to make a separate probe unnecessary. Highly sensitive—responds to both beta and gamma radiation. Easy to operate—no technical knowledge needed. Pocket size: weighs only 2 pounds. Uses standard Victoreen thin-wall metal 1B85 tube; plug-in type for easy replacement in the field. Uses 2 flashlight cells for power. Vibrator power supply. Now supplied with sensitive headphones—complete, ready to use. Housed in a durable, lightweight plastic case. 6 1/2 x 3 3/4 x 2 1/4". Complete with batteries and headphones. Shipping weight, 2 1/2 lbs. **77-067. NET.....48.50**



Supplied 100% Complete

The KNIGHT TV Demonstrator is supplied complete. No extra construction required. With tubes, front-end tuner, plus 16" kinescope and speaker. It is ready for immediate operation from any 110-120 volt, 60 cycle line. Size: 56" W, 52" H, 15" D (at base).

Includes TV "Pict-O-Guides"

Included with the KNIGHT TV Demonstrator are Volumes I and II of the popular RCA Television "Pict-O-Guide" series. These guides, prepared by John Meagher, contain hundreds of actual "off-the-screen" photos of typical TV receiver troubles, plus schematic diagrams and detailed explanations of these troubles. Excellent as outline guides for lectures conducted in conjunction with the TV Demonstrator.

97-532. KNIGHT TV Demonstrator. NET.....950.00



Modern Test Equipment

HICKOK 620 TV PATTERN GENERATOR

Crystal-Controlled
Cross-Hatch Pattern



The 620 provides a dependable, stable, linear TV pattern at any time. With this unit on your bench, you do not have to rely upon TV station test patterns, which are not always available when you want them. The 620 is your own personal "TV station"—always at hand to provide a stable cross-hatch pattern for servicing TV receivers anywhere. Connects to receiver antenna terminals—permits quick checking and alignment of linearity and drive controls; and horizontal AFC circuit. Detects hum in horizontal deflection circuits. Output frequencies: 4 channels, 2-5; for servicing, only 1 channel is necessary. Modulating frequencies are crystal-controlled. Output voltages: 50 to 5000 microvolts, calibrated 0-100. Horizontal lines, 8 or 9. Vertical Lines, 12. 4-position Output Selector: Standby, Horiz. Lines, Vert. Lines, and Cross-Hatch. Blue Hammerite steel case, 9x11 1/2x7. Supplied with test leads. For 105-125 volts, 60 cycles. Shpg. wt., 14 1/4 lbs.

84-148. NET. 173.02

HICKOK 630 TV VOLTAGE CALIBRATOR

For Exact Peak-to-Peak
Voltage Measurements



New television voltage calibrator for measuring actual peak-to-peak AC volts—regardless of wave-shape of signal under test. Permits television receiver servicing and maintenance adjustments to be made exactly as recommended by the set manufacturer. For use with any conventional oscilloscope. Eliminates errors in interpolating peak-to-peak values from scope screen—actual p-to-p volts are read directly on the large panel meter. Helps make servicing easy and rapid. Eliminates usual errors encountered when calculating p-to-p volts by multiplying readings of most conventional VOM or VTVM units by 2.8 factor—a method valid only for pure sine waves. Controls: range selector—X0.1, X1, X10 and X100; zero; direct-calibrate switch on/off switch. Uses: 6SN7, 6X5GT, OD3, OA2. Blue Hammerite finish steel case with satin chrome panel, 8 1/2 x 11 1/2 x 6 1/2. With tubes, 24" cable and instructions. Operates from 110-120 volts, 50-60 cycles. Shpg. wt., 15 lbs.

84-176. NET. 79.87

TRIPLETT 630A VOLT-OHM-MILLIAMMETER

Hand-drawn Dial with Mirror Scale
1/2% Precision Resistors Throughout



New 33-range VOM featuring professional standards of accuracy. Uses 1/2% precision resistors. Overall meter accuracy: 1 1/2% on ohms and 0-1200 DC v; 4% on 6000 DC v and AC ranges. Flush-mounted 5 1/2" meter has individually-calibrated, hand-drawn dial—with black markings on white and Ohms and AC in red—and mirror scale to eliminate parallax error. Recessed 20-position rotary switch selects circuit and range in single operation. Ranges: DC, AC and output volts, 0-3-12-60-300-1200-6000, DC at 20,000 ohms/v, AC at 5000 ohms/v; DC current, 100 microamps, 0-1-2-12-120 ma, ac 0-12 amp; Ohms, 0-1000 meg. Db, 5 ranges from -20 to +63. Bakelite case, 5 1/2 x 7 x 3 1/2. With batteries and 50' test leads. Shpg. wt., 4 1/2 lbs.

84-574. NET. 46.55

SIMPSON 303 VT VOLT-OHMMETER

Smallest VTVM—High Accuracy
Wide Range—10 Megohm DC Input



Compact—about half the size of most comparable units, yet sacrifices nothing in accuracy or functions. DC input resistance, 10 megohms on all ranges; DC probe has 1 megohm isolating resistor. Can be used as electronic DC voltmeter, ohmmeter, AC-DC voltmeter, output meter, and FM indicator. Zero center scale for FM discriminator alignment. Has polarity-reversing switch. 4 1/2" meter has easy-to-read scales. Features low AF and AC-DC range of 1.2 volts, full scale. Ranges: AC and DC volts, 0-1-2-12-60-600-1200. AC impedance with cable, 200 mmf/275,000 ohms. AF volts, 0-1-2-12-60, flat to 100 kc; ohms, 0-1000-100,000 and 0-1-10-1000 meg. Db, 5 ranges from -20 to +63. Bakelite case, 5 1/2 x 7 x 3 1/2. With DCV and ACV-Ohms probes. For operation from 105-125 volts, 60 cycles. Shpg. wt., 6 1/2 lbs.

84-712. NET. 57.57

84-715. High-Voltage Probe. Extends DC volts range of Model 303 to 30,000 volts. Shpg. wt., 2 lbs. NET. 14.55

84-716. High-Frequency Probe. For signal tracing to 100 mc. Shpg. wt., 1 lb. NET. 7.35

NEW RCA TEST EQUIPMENT



WR-39B TV MARKER GENERATOR

Crystal-calibrated variable frequency signal generator plus 2 built-in crystal oscillators. Provides dual markers with WR-59B or any sweep generator when measuring receiver bandwidth on scope. Ranges: 19-110 mc in 4 bands; 170-240 mc in 2 bands—all on fundamentals. Variable 100:1 attenuator. Output, 0.1 rms v, 100 ohms. Permits linearity adjustment in absence of test pattern when variable oscillator is modulated by internal crystal or external oscillator. Serves as heterodyne frequency meter; has detector, audio amplifier and speaker. Has markers (4.5 mc and 250 kc away from main marker) for TV, IF and sound discriminator alignment. Provision for external marker injection. Has crystal-controlled 4.5 mc output for alignment of sets with intercarrier sound. With tubes, 3 crystals. Blue-gray Hammeroid case, 9 1/2 x 13 1/2 x 7 1/2. For 105-125 volts, 50-60 cycles. Shpg. wt., 22 lbs.

84-072. NET. 224.50



WO-57A 3" OSCILLOSCOPE

Handles every television and radio servicing task requiring an oscilloscope. Features high sensitivity—25 millivolts/inch deflection. Vertical amplifier response, flat within 3 db from zero to 500 kc, down only 55% at 1 mc and useful beyond 2 mc. Provided with frequency-compensated and calibrated step attenuator. Also has vernier control and calibrating voltage source, 60-cycle sweep with phasing control. High impedance input. Trace expansion: two times screen diameter for sweep-alignment applications. Direct-coupled vertical amplifier has separate input jacks for DC and AC signal tests. Linear sweep range is 15 to 30,000 cps with preset fixed positions for viewing horizontal and vertical TV sync pulses and oscilloscope waveforms. Has exclusive RCA sweep direction-reversing switch—positive or negative syncing. Push-pull amplifiers produce sharper trace and reduce astigmatism. Direct-coupled amplifiers provide low frequency square-wave reproduction which is essential for correct sweep alignment. High-frequency square-wave response up to 100 kc permits reproducing blanking and sync pulse wave shapes with excellent fidelity. Provision for external sync. In sturdy blue-gray Hammeroid portable case, 9 1/2 x 13 1/2 x 8 1/2. With tubes, type WR-214 probe to reduce input capacity to 10 mmf., and cable assembly, and instructions. For operation from 105-125 volts, 50-60 cycles. Shpg. wt., 20 lbs.

84-073. NET. 145.00



WR-59B TV SWEEP GENERATOR

An outstanding new RCA frequency-modulated television sweep generator for visual alignment and television-FM receiver servicing. Features continuous IF coverage up to 50 mc, including video and intercarrier sweep ranges; sweep width is 10 mc. Provides output on thirteen television RF channels, in steps. Output, 100,000 microvolts rms or better on every range; amplitude uniformity less than ±1 db on all ranges. RF output attenuator is balanced capacitor type, and is 20,000-to-1 continuously variable. Equipped with a blanking control to provide a single image and base line on oscilloscope screen. Also has variable phase control. Radio frequency output impedance is 300 ohms, balanced to ground. IF/Video Frequency range has 100-ohm termination and single-ended output. Model WR-59B Television Sweep Generator is intended for use with Model WR-39B Television Marker Generator described at left of page, for highly accurate measurement of television receiver bandwidths on an oscilloscope, such as WO-57A at left. Every worthwhile modern sweep generator circuit advancement has been incorporated into this up-to-the-minute test instrument. Simplified, conveniently-located panel controls and output terminals speed servicing and help reduce error. Uses: 2-6J6, 2-6CA, 1-6AT6, 1-6X4. Supplied complete with IF/VF and RF output cables, and instruction manual. Housed in a sturdy, blue-gray Hammeroid-finished portable steel case with anodized satin aluminum panel measuring 9 1/2 x 13 1/2 x 7 1/2. For operation from 105-125 volts, 50-60 cycles AC. Shpg. wt., 35 lbs.

84-074. NET. 274.50

YOU CAN BUY TEST EQUIPMENT ON EASY TERMS

Test equipment amounting to \$45.00 or more may be bought under ALLIED's liberal Time Payment Plan. For complete details, see page 190 of ALLIED catalog No. 120. Write today for our Time Payment order blank.

New Test Equipment

OAK RIDGE MINIATURE TEST INSTRUMENTS



**MODEL 101
SUBSTITUTION TESTER**

Versatile, small-size, portable substitution tester. Model 101 is only half the size of conventional substitution testers, yet contains functions you'd expect to find only in higher-priced instruments. Makes available test speaker with voice-coil and transformer output connections, paper, ceramic and electrolytic capacitors, resistors and potentiometer. Panel controls: switch to select either voice coil or output of matching transformer for built-in test speaker, single rotary switch to select all resistance, capacitance values and potentiometer. Has terminal connections on panel for all testing functions; black condenser terminal jack indicates negative polarity of electrolytic condensers and outside foil on paper condensers. Sturdy portable wood case and panel with all functions and terminals plainly marked measures only 5 1/4 x 4 1/2 x 2 1/4" — exceptionally small size makes it ideal for portable use and on-the-spot testing of radio receivers right in the customer's home. A valuable unit that pays for itself in time saved. Model 101 Substitution Tester is supplied complete with two sets of test leads and full instructions on use of instrument. Requires no power source. Shpg. wt., 3 lbs.

**84-355.
NET**

15.92

**MODEL 103
SIGNAL GENERATOR**

Compact, highly useful television signal generator. Generates modulated radio frequency sound and video carriers in any television channel. Output frequency selected by rotary switch. Generates an 88-108 mc modulated radio frequency signal for alignment and adjustment of FM receivers. Generates a modulated IF signal to check video or sound IF amplifiers of any television receiver. Provides a modulated IF signal to tune IF traps and for alignment purposes. Can be used to check orientation of television antenna. Supplies a radiated RF signal for sensitivity comparison tests of television or FM antennas. Panel controls: audio-video, AC on-off, output frequency selector for television and FM, and terminal jacks for all functions on panel. Compact, portable, easy-to-use — an invaluable time-saver because it permits many servicing adjustments to be made by serviceman at site of television receiver installation. Rugged wood case with all functions and controls plainly marked on composition panel. Size, 5 1/4 x 4 1/2 x 2 1/4". For operation from 105-125 volts, 50-60 cycles AC. Complete with all tubes, and operating instructions. Shpg. wt., 3 lbs.

**84-357.
NET**

29.35

MODEL 102 HIGH-VOLTAGE TESTER

**Measures Up to 30,000 Volts DC
10,000 Ohms/Volt Sensitivity**



New high voltage tester designed especially for measuring high potentials used in television receivers. Compact and portable — fits easily into radio and television serviceman's repair kit. Has 10,000 ohms per volt sensitivity. DC voltage ranges: 0-500, 0-15,000 and 0-30,000. Features 3" square meter with easy-to-read black-on-white dial scale markings and sensitive 0-100 micro-ampere meter movement. Incorporates special television high-voltage multiplier resistors of high accuracy. Supplied with two high-voltage probes, with fully insulated handles for measuring up to 30,000 volts. Has four terminal jacks on panel — common, 500 volts, 15,000 volts, and 30,000 volts. Model 102 High Voltage Tester also can be used for measuring high voltage DC, such as in oscilloscopes, special purpose electronics equipment, and radio transmitters. Low voltage 0-500 scale is especially useful for making DC measurements on FM and AM broadcast receivers. Supplied ready for operation — requires no batteries or external power source. Wood case and composition panel measure 5 1/4 x 4 1/2 x 2 1/4". With probes, Shpg. wt., 3 lbs.

**84-356.
NET**

14.65

MODEL 104 SYNCHRO-SWEEP GENERATOR

**Provides Sync and Sweep Outputs
Simulates Television Test Pattern**



This compact, portable new Synchro-Sweep Generator provides invaluable television receiver trouble-shooting functions. Has vertical and horizontal sync outputs to check for malfunctioning in TV set vertical and horizontal sync stages. Has a vertical saw-tooth output for checking vertical sweep circuits. A horizontal saw-tooth output is provided for trouble-shooting horizontal sweep circuits, including high-voltage flyback section. Provides a linear horizontal pattern for adjusting vertical linearity and height controls, and a linear vertical pattern for horizontal linearity and width controls. Model 104 will isolate a sync sweep or high-voltage failure without the presence of any test pattern or television program on the air. Easy portability permits making tests at receiver installations. Panel controls: selector for horizontal and vertical sync, linearity and sweep and flyback tests; sweep tuning; channel selector. Sturdy, portable wood cabinet with easy-to-read, plainly marked composition panel measures 5 1/4 x 4 1/2 x 2 1/4". Supplied complete with full operating instructions. For operation from 105-125 volts, 50-60 cycles AC. Shpg. wt., 3 lbs.

**84-358.
NET**

39.15

**MILLEN MODEL 90651
GRID DIP METER**

An accurate measuring instrument for Amateurs, radio servicemen, experimenters and laboratory technicians. Exceptionally versatile. Model 90651 Grid Dip Meter is a calibrated oscillator for measuring resonance in a non-energized tuned circuit. Stable, dependable, and easy to operate. 2" General Electric meter reads oscillator grid current. Used as: (1) Grid Dip Oscillator; (2) Oscillating Detector; (3) Signal Generator; (4) Indicating Absorption Wavemeter. Specific uses include: receiver tuned circuit alignment; determination of transmitter tuned circuit frequency with power off; finding parasitic oscillations; pre-tuning wave traps; tuning beam antennas; turned feeder adjustment; determining exact physical length for resonance and best operation of long wire, dipole and folded dipole antennas; for indicating circuit Q, measurement of inductance, capacity, antenna frequency. Also invaluable for determining proper LC values required in low and high pass type RF filters for TVI reduction. Contains built-in transformer type AC power supply and internal terminal board to provide connections for battery operation. Range: 1.7 to 300 mc, in 7 overlapping bands. Has 7 polystyrene-encased plug-in coils, one for each band, which insert in socket at rear of instrument. No separate probe required — each coil serves as its own probe. Accurately calibrated 270° dial has 7 direct reading, one universal scale. Black metal case, 7 x 3 1/2 x 3 3/8". For 105-125 volts, 50-60 cycles AC. With coil rack, 7 coils, tube and operating instructions. Shpg. wt., 3 1/2 lbs.

**84-962.
NET**

55.00



**DUMONT 5-INCH OSCILLOSCOPE
For Laboratory and Service Use**

Model 304. Replaces famous Model 208B. Features: (1) Exceptionally stable, high-gain X and Y amplifiers. (2) Driven sweeps, triggered by signal under test, for observation of random-interval phenomena. (3) Optional expansion of both X and Y deflection to 6 times full-screen diameter. (4) Accelerating potential of 1780 v. (5) Sync-limiter eliminates distortion resulting from excessive sync voltage. Sensitivity through amplifiers: Y-axis, 10 rms mv/inch; X-axis, 50 rms mv/inch. Response, both axes, DC amplifiers: 0-100,000 cps within 10%; 0-300,000 cps within 50%. Response, both axes, AC amplifiers: 20-100,000 cps, within 10%; 20-300,000 cps, within 50%. Input impedances through amplifiers: Y-axis, 2 megs and 50 mmf; X-axis, 2.2 megs and 50 mmf. Switching circuit permits obtaining extremely slow sweeps by use of external capacitors. Driven and recurrent sweeps available from 2 cps to 30 kc. Uses 50D1-A, Case, 13 1/2 x 8 3/8 x 1 1/2". For 110-120 v, 50-60 cycles. Shpg. wt., 55 lbs.

84-748. NET

308.00

Model 304-H. Same as above, but has higher accelerating potential (3000) volts. Permits photographing waveforms that exhibit higher-than-average writing rates.

84-747. NET

328.00

**PRECISION MODEL EV-20
ALL-PURPOSE VTVM**

Portable AC-DC VTVM and multi-range set tester with 13 1/2 megohm constant input resistance on DC voltages. Dial features direct-reading true zero-center. Voltage-regulated bridge type circuit. Automatic polarity reversing feature. Master range and function selectors eliminate shifting test leads — reduce operational errors and shock hazards. Large, easy-to-read 4 1/2" rectangular meter with ±2% accuracy and 200 microampere sensitivity. DC VTVM ranges: 3-0-3, 12-0-12, 30-0-30, 120-0-120, 300-0-300, 1500-0-1500 volts. Resistance: 0-2,000, 200,000 ohms, 0-2-20-200-2,000 megohms. AC-DC and output volt ranges: 0-3-12-30-120-300-1200 volts at 1000 ohms/volt. DC current: 0-300 microamperes, 0-1-2-3-12-30-120 ma, 0-1-2-12 amps. Six decimal ranges — 20 to +52 db. Uses 2 ordinary 1.5-volt flashlight cells for resistance ranges, easily replaced at rear of cabinet through special cover plate. Heavy-gauge, round-cornered louvred steel cabinet, with plastic carrying handle. Size, 6 1/2 x 10 1/2 x 5". Supplied complete with coaxial circuit-isolating test probe, shielded ohmmeter test cable, test leads, ohmmeter batteries, and operating instructions. For operation from 110-120 volts, 50-60 cycles AC. Shpg. wt., 11 lbs.

84-443. NET

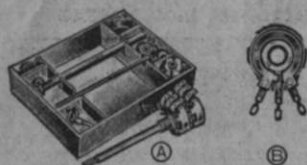
63.45

SEE CATALOG 120

For complete listings of test equipment, see pages 15, 41-51, 184, and 185 of ALLIED Catalog No. 120.



Latest IRC Controls and Chokes



VERSATILE CONCENTRIKIT AND ACCESSORIES

These parts for rapid assembly of concentric shaft dual controls provide radio servicemen and industrial users with a wide selection of values—without need for large, costly stocks. One Concentrikrit, one shaft end, and two base elements of required resistances are all that's needed to make any one of 523 concentric duals. Over 90% of all concentric dual controls in television sets, auto radios and home sets can be replaced with Concentrikrit.

TYPE K-1 CONCENTRIKIT—FIG. A

All necessary hardware to make up a concentric shaft dual control, inner and outer shafts, covers, etc., and step-by-step assembly instructions. This kit, two base elements and a shaft end are required for a complete unit. Shpg. wt., 2 lbs.

30-636, NET.....1.62

BASE ELEMENTS—FIG. B

Two required for each concentric dual control. Resistance elements on blue-molded base, with terminals and collector ring installed. No loose parts. Shpg. wt., 1 oz.

No.	Type	Ohms	Taper
30-600	B11-108	1000	A
30-601	B11-112	3000	A
30-602	B11-114	5000	A
30-603	B11-115	7500	A
30-604	B11-116	10,000	A
30-605	B17-116	10,000	Spec.
30-606	B11-119	20,000	A
30-607	B11-120	25,000	A
30-608	B11-121	30,000	A
30-609	B11-123	50,000	A
30-610	B11-128	100,000	A
30-611	B11-130	250,000	A
30-612	B13-130	250,000	C
30-615	B13-132	350,000	C
30-618	B11-133	500,000	A
30-619	B13-133	500,000	C
30-623	B11-137	1 meg	A
30-624	B13-137	1 meg	C
30-626	B17-137	1 meg	Spec.
30-629	B11-138	1.5 meg	A
30-630	B11-139	2 meg	A
30-631	B13-139	2 meg	C

NET EACH.....29c

TAPPED BASE ELEMENTS

Similar to Fig. B. Blue molded tapped base elements for use in Concentrikrit. Shpg. wt., 1 oz.

No.	Type	Ohms	Tap	Taper
30-613	B13-130X	250,000	125,000	Spec.
30-614	B18-130X	250,000	60,000	H
30-616	B17-132X	350,000	35,000	Spec.
30-617	B18-132X	350,000	75,000	H
30-620	B13-133X	500,000	125,000	Spec.
30-621	B18-133X	500,000	50,000	Spec.
30-622	B19-133X	500,000	250,000	Spec.
30-625	B13-137X	1 meg	250,000	H
30-627	B18-137X	1 meg	250,000	Spec.
30-628	B19-137X	1 meg	500,000	Dual tap
30-632	B13-139X	2 meg	500,000	Spec.

NET EACH.....65c

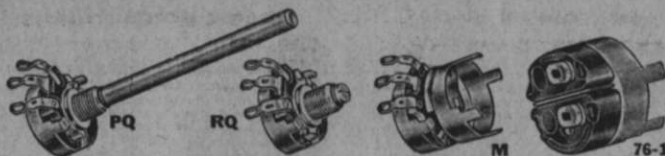


SPECIAL SHAFT ENDS

Inner shaft ends. Available in three styles to handle the ten types of concentric dual control knobs. Shpg. wt., 1 oz.

30-633, Fig. A. Type E187.
30-634, Fig. B. Type E190.
30-635, Fig. C. Type E202. NET EA. 25c

CONCENTRIC DUAL REPLACEMENT MANUAL. Gives data on 475 sets using 165 types of dual controls. Explains how to use the Concentrikrit technique. 8 1/2 x 11", 6 oz. **25c**



POPULAR INDUSTRIAL CONTROLS

These versatile PQ and RQ type industrial controls with the multi-section add-on-control sections will permit easy exact "tailoring" of dual, triple and even quadruple units to meet individual requirements. Especially designed for long-life industrial use in all electronic circuits. PQ and RQ controls are available in two round fixed shaft styles—standard (PQ) and

slotted stub (RQ). Multisection units fit "O" controls and also take type 76 switches. High quality and extremely durable. All materials meet salt spray requirements—resist noise-producing corrosion. Nickel-plated with molded blue base. Diameters only 1 1/8". Have one-piece dual contactors. Rated at 1/4 watt, 500 volts maximum. Av. shpg. wt., 4 oz.

PQ STANDARD SHAFT CONTROLS

Use 76-1 and 76-2 switches and type M sections listed at right. Have full round 1/4" dia. shaft, 3" long; threaded bushing is 1/4" long.

Stock No.	Type	Ohms	Taper
30-510	11-103	500	A
30-511	11-108	1,000	A
30-512	11-110	2,000	A
30-513	11-112	3,000	A
30-514	11-114	5,000	A
30-515	11-115	7,500	A
30-516	11-116	10,000	A
30-517	13-116	10,000	C
30-518	14-116	10,000	D
30-519	11-119	20,000	A
30-520	11-120	25,000	A
30-521	14-120	25,000	D
30-522	11-121	30,000	A
30-523	11-123	50,000	A
30-524	13-123	50,000	C
30-525	14-123	50,000	D
30-526	11-128	0.1 Meg	A
30-527	13-128	0.1 Meg	C
30-528	11-130	0.25 Meg	A
30-529	13-130	0.25 Meg	C
30-530	11-133	0.5 Meg	A
30-531	13-133	0.5 Meg	C
30-532	11-137	1.0 Meg	A
30-533	13-137	1.0 Meg	C
30-534	11-138	1.5 Meg	A
30-535	11-139	2.0 Meg	A
30-536	13-139	2.0 Meg	C
30-537	11-239	2.5 Meg	A
30-538	11-440	3.0 Meg	A
30-539	13-440	3.0 Meg	C
30-540	11-441	5.0 Meg	A
30-541	11-443	10.0 Meg	A

NET EACH.....73c

RQ SLOTTED STUB CONTROLS

All have short shafts, slotted for screwdriver adjustment. For use where control adjustment is semi-permanent. Threaded bushing 1/4" long; shaft extends 1/4" beyond bushing. Use switches and type M sections at right.

Stock No.	Type	Ohms	Taper
30-542	11-103	500	A
30-543	11-108	1,000	A
30-544	11-110	2,000	A
30-545	11-112	3,000	A
30-546	11-114	5,000	A
30-547	11-115	7,500	A
30-548	11-116	10,000	A
30-549	13-116	10,000	C
30-550	14-116	10,000	D
30-551	11-119	20,000	A
30-552	11-120	25,000	A
30-553	14-120	25,000	D
30-554	11-121	30,000	A
30-555	11-123	50,000	A
30-556	13-123	50,000	C
30-557	14-123	50,000	D
30-558	11-128	0.1 Meg	A
30-559	13-128	0.1 Meg	C
30-560	11-130	0.25 Meg	A
30-561	13-130	0.25 Meg	C
30-562	11-133	0.5 Meg	A
30-563	13-133	0.5 Meg	C
30-564	11-137	1.0 Meg	A
30-565	13-137	1.0 Meg	C
30-566	11-138	1.5 Meg	A
30-567	11-139	2.0 Meg	A
30-568	13-139	2.0 Meg	C
30-569	11-239	2.5 Meg	A
30-570	11-440	3.0 Meg	A
30-571	13-440	3.0 Meg	C
30-572	11-441	5.0 Meg	A
30-573	11-443	10.0 Meg	A

NET EACH.....73c

TYPE M MULTISECTIONS

Add-on control sections for designing special dual, triple and quadruple controls. Attach like switches to any type Q, PQ or RQ control. Use type 76 switches listed below.

Stock No.	Type	Ohms	Taper
30-574	11-108	1,000	A
30-575	11-114	5,000	A
30-576	11-116	10,000	A
30-577	11-120	25,000	A
30-578	11-123	50,000	A
30-579	11-128	0.1 Meg	A
30-580	13-128	0.1 Meg	C
30-581	11-130	0.25 Meg	A
30-582	13-130	0.25 Meg	C
30-583	11-133	0.5 Meg	A
30-584	13-133	0.5 Meg	C
30-585	11-137	1.0 Meg	A
30-586	13-137	1.0 Meg	C
30-587	11-139	2.0 Meg	A
30-588	13-139	2.0 Meg	C
30-589	11-141	5.0 Meg	A
30-590	11-143	10.0 Meg	A

NET EACH.....73c

ATTACHABLE SWITCHES

For type PQ and RQ controls and type M multisection units. U.L. Approved. Wt., 2 oz. **30-359, Type 76-1. SPST. NET 30-591, Type 76-2. DPST. NET EACH 35c**



INSULATED HF CHOKES

Insulated wire-wound chokes. 1000 volts insulation breakdown to ground. Values below 82 uhy ±15%, above ±10%. Excellent series peaking coils, wave traps, parasitic suppressors, line terminations and cathode, filament, antenna or grid chokes. "Q" rises with frequency. *Type CLA, 1 1/8" long x 1/4" dia. Rest are type CL-1, 1 1/4" long x 1/4" dia. Current which will cause 10% resistance rise. Av. shpg. wt., 2 oz.

Stock No.	Micro-hros	DC Ohms	DC Ma.	"Q" at 12 mc.
74-420*	0.47	0.22	890	26
74-421*	0.56	0.31	750	25
74-422*	0.68	0.44	630	25
74-423*	0.82	0.59	540	24
74-424*	1.0	0.80	470	24
74-425*	1.2	0.85	450	23
74-426*	1.5	1.2	380	23
74-427*	1.8	1.6	330	22
74-428*	2.2	1.8	310	22
74-429*	2.7	2.2	280	22
74-430*	3.3	3.0	240	21
74-431	0.47	0.14	1460	30
74-432	0.56	0.20	1220	30
74-433	0.68	0.22	1170	30
74-434	0.82	0.27	1030	30
74-435	1.0	0.41	850	30
74-436	1.2	0.51	770	30
74-437	1.5	0.72	650	29
74-438	1.8	0.77	620	29
74-439	2.2	1.1	520	29
74-440	2.7	1.5	450	28
74-441	3.3	2.0	390	28
74-442	3.9	2.6	340	27
74-443	4.7	2.8	330	26
74-444	5.6	4.0	270	24
74-445	6.8	5.6	240	24
74-446	8.2	6.1	220	24
74-447	10.0	8.2	190	20

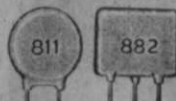
NET EACH.....21c

CHOKO ASSORTMENT CABINET

Contains 5 of each CLA and CL-1 chokes above. Total of 140 chokes with compartment for each value. No additional charge for sturdy 4-drawer metal cabinet. Wt., 7 lbs. **74-448, NET.....28.81**

Capacitors and Relays

ERIE COMPACT DISC AND PLATE CERAMICONS



Ultra-compact ceramic capacitors. Consist of a flat ceramic dielectric with silver plates fired on to the dielectric. Lead wires are firmly soldered to the silver electrodes. All have protective phenolic covering. Type 811 is disc-shaped unit with maximum diameter of $\frac{1}{8}$ ". Type 882 is rectangular, with maximum size of $\frac{1}{2}$ "x $\frac{1}{4}$ ". All have working voltage of 500 volts DC. Tolerance, +100%, -0% of rated capacities given. Average shgp. wt., 2 oz.

No.	Type	Mfd.	NET
12-200	811-HI-K-35	.005	15c
12-201	811-HI-K-12	.001	
12-202	811-HI-K-12	.0015	
12-203	811-HI-K-12	.002	
12-205	882-HI-K-35	2x.0015	24c
12-206	882-HI-K-35	2x.002	24c
12-207	882-HI-K-35	2x.004	26c
12-208	882-HI-K-35	2x.004	26c
12-209	882-HI-K-35	3x.0015	29c



CORNELL-DUBILIER TYPE MTV OIL-FILLED METAL TUBULARS

Small-sized units for use in television and other high voltage applications. Impregnated and oil-filled. Have hermetically sealed metal tube containers and insulating cardboard sleeve covers. Withstand high temperature, 6000 volts DC working. Shgp. wt., 6 oz.

No.	Type	Mfd.	Size	NET
14-636	MTV60T5	.0005	1 x $1\frac{1}{4}$ "	1.38
14-637	MTV60D1	.001	1 x $1\frac{1}{4}$ "	
14-638	MTV60D5	.005	1 x $1\frac{1}{4}$ "	
14-639	MTV60 S1	.01	1 x $2\frac{1}{4}$ "	
14-640	MTV60 S3	.03	$1\frac{1}{2}$ x $2\frac{3}{4}$ "	1.53
14-641	MTV60 S5	.05	$1\frac{1}{2}$ x $3\frac{1}{4}$ "	1.62

BUYS IN STANDARD OIL-FILLED CONDENSERS



Nationally known brands from surplus stocks, offered at a small fraction of original cost! Brand new. Metal case type transmitting condensers. Filled and treated with Pyranol, a non-inflammable, non-explosive substance. Hermetically sealed; screw terminals; glazed stand-off insulators. All have mounting clamps.

- 1 mfd. 3000 V. For high-voltage power supply in Amateur and commercial transmitters. Overall size, $3\frac{3}{4}$ "x $3\frac{3}{4}$ "x $2\frac{1}{2}$ ". Shgp. wt., 2 1/2 lbs. **55-061. NET. 2.35**
- 2 mfd. 4000 V. For heavy-duty power supply use. Ideal for Amateur 1 KW rigs. Size, 4x $6\frac{1}{2}$ "x $1\frac{1}{2}$ ". Shgp. wt., 8 lbs. **55-094. NET. 3.75**
- 2 mfd. 1000 V. For medium-voltage and exciter-driver power supplies. Overall size, $1\frac{1}{2}$ "x $4\frac{1}{2}$ "x $1\frac{1}{2}$ ". Shgp. wt., 1 1/2 lbs. **55-295. NET. 49c**

SPRAGUE HYPASS 3-TERMINAL HI-FREQ. CAPACITORS



Feed-through type VHF bypass capacitors. Perform efficiently up to 150 mc. For use in AC and HV leads on Ham transmitters to reduce harmonic radiation and eliminate TVI. For reducing vibrator hash in 6 volt equipment. Type 48P9 with screw terminals is for bypassing AC leads carrying up to 20 amps. at 250 volts. Others are for HV bypass use. Average shgp. wt., 2 oz.

Stock No.	Mfrs. Type	Mfd.	Wks. Voltage	Size	NET EACH
15-698	48P9	.1	250 AC	$\frac{1}{2}$ x $1\frac{1}{2}$ "	1.53
15-691	46P8	.005	600 DC	$\frac{1}{2}$ x $1\frac{1}{2}$ "	1.26
15-692	47P6	.01	600 DC	$\frac{1}{2}$ x $1\frac{1}{2}$ "	1.38
15-693	47P12	.005	1000 DC	$\frac{1}{2}$ x $1\frac{1}{2}$ "	1.41
15-694	47P13	.01	1000 DC	$\frac{1}{2}$ x $1\frac{1}{2}$ "	1.53
15-695	47P14	.005	2500 DC	1 x $1\frac{1}{2}$ "	1.71
15-696	47P15	.01	2500 DC	1 x $1\frac{1}{2}$ "	1.82
15-697	47P16	.002	5000 DC	1 x $1\frac{1}{2}$ "	1.82

SPRAGUE MOTOR-STARTING CAPACITORS



Compact motor-starting electrolytic capacitors. Provide maximum starting efficiency for 110 volt capacitor-start AC motors. Designed for replacement of old-type large size capacitors. Hermetically sealed aluminum cases; heavy cardboard outer tube for insulation. All have screw terminals. *Min.-max. Average shgp. wt., 10 oz.

No.	Type	*Mfd.	Size	NET
15-579	A3545	47-56	1 x $2\frac{1}{2}$ "	1.09
15-580	A3547	53-66	$1\frac{1}{2}$ x $2\frac{1}{2}$ "	1.12
15-581	A3547	64-77	$1\frac{1}{2}$ x $2\frac{1}{2}$ "	1.12
15-582	A3548	72-87	$1\frac{1}{2}$ x $2\frac{1}{2}$ "	1.18
15-583	A3549	86-103	$1\frac{1}{2}$ x $2\frac{1}{2}$ "	1.23
15-584	A3550	108-130	$1\frac{1}{2}$ x $3\frac{1}{4}$ "	1.26
15-585	A3551	124-149	$1\frac{1}{2}$ x $3\frac{1}{4}$ "	1.32
15-586	A3552	130-156	$1\frac{1}{2}$ x $3\frac{1}{4}$ "	1.65
15-587	A3553	145-175	$1\frac{1}{2}$ x $3\frac{1}{4}$ "	1.65
15-588	A3554	161-193	$1\frac{1}{2}$ x $3\frac{1}{4}$ "	1.99
15-570	A3555	189-227	$1\frac{1}{2}$ x $3\frac{1}{4}$ "	1.99
15-571	A3556	200-240	$1\frac{1}{2}$ x $4\frac{1}{4}$ "	2.35
15-572	A3557	216-259	$1\frac{1}{2}$ x $4\frac{1}{4}$ "	2.41
15-573	A3558	233-280	$1\frac{1}{2}$ x $4\frac{1}{4}$ "	2.65
15-574	A3559	243-292	$1\frac{1}{2}$ x $4\frac{1}{4}$ "	2.68
15-575	A3560	270-324	$1\frac{1}{2}$ x $4\frac{1}{4}$ "	3.12
15-576	A3561	324-388	$1\frac{1}{2}$ x $4\frac{1}{4}$ "	3.56
15-577	A3562	340-408	$1\frac{1}{2}$ x $4\frac{1}{4}$ "	3.79
15-589	A3563	378-440	$1\frac{1}{2}$ x $4\frac{1}{4}$ "	4.03
15-578	A3564	400-480	$1\frac{1}{2}$ x $4\frac{1}{4}$ "	4.94

SPRAGUE POCKET GUIDE TO MOTOR CAPACITORS. Tells how to select the proper replacement for capacitor-start and permanent split-phase capacitor motors. Includes electrolytic and oil capacitor tables. **37-079. No Charge**

Request one with your next order.



SPRAGUE "TELECAP" HI-TEMP. MOLDED PLASTIC TUBULARS

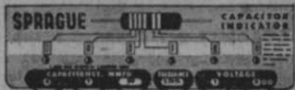
Type TM. All are 600 volt DC working, except * which are 400 volt DC working. High temperature, high humidity plastic molded tubulars. Especially desirable where high heat is a factor. Temperature range -40°C to +85°C. Oil-impregnated. Lead with solder bend designates outside foil. Av. shgp. wt., 3 oz.

No.	Type	Mfd.	Size	NET
15-070	TM-21	.001	$\frac{1}{2}$ x $1\frac{1}{2}$ "	15c
15-071	TM-22	.002	$\frac{1}{2}$ x $1\frac{1}{2}$ "	15c
15-072	TM-23	.003	$\frac{1}{2}$ x $1\frac{1}{2}$ "	15c
15-073	TM-24	.004	$\frac{1}{2}$ x $1\frac{1}{2}$ "	15c
15-074	TM-25	.005	$\frac{1}{2}$ x $1\frac{1}{2}$ "	15c
15-075	TM-26	.006	$\frac{1}{2}$ x $1\frac{1}{2}$ "	15c
15-076	TM-11	.01	$\frac{1}{2}$ x $1\frac{1}{2}$ "	18c
15-077	TM-12	.02	$\frac{1}{2}$ x $1\frac{1}{2}$ "	18c
15-078	TM-13	.03	$\frac{1}{2}$ x $1\frac{1}{2}$ "	21c
15-079	TM-14	.04	$\frac{1}{2}$ x $1\frac{1}{2}$ "	21c
15-080	TM-15	.05	$\frac{1}{2}$ x $1\frac{1}{2}$ "	24c
15-081	TM-16	.06	$\frac{1}{2}$ x $1\frac{1}{2}$ "	24c
15-082	TM-1	.1	$\frac{1}{2}$ x $1\frac{1}{2}$ "	24c
15-125	TM-11-4	.01	$\frac{1}{2}$ x $1\frac{1}{2}$ "	15c
15-126	TM-12-4	.02	$\frac{1}{2}$ x $1\frac{1}{2}$ "	15c
15-127	TM-15-4	.05	$\frac{1}{2}$ x $1\frac{1}{2}$ "	18c
15-128	TM-1-4	.1	$\frac{1}{2}$ x $1\frac{1}{2}$ "	21c
15-129	TM-2-4	.25	$\frac{1}{2}$ x $1\frac{1}{2}$ "	24c

6000 VOLT MOLDED TUBULARS

Type TVM. Oil-impregnated paper tubulars. Replacements in TV receivers of all makes. Withstand high temperature and humidity. Temperature rating, 85° C. 6,000 volts DC working except * is 10,000. Shgp. wt., 6 oz.

No.	Type	Mfd.	Size	NET
15-850	356	.0005	$\frac{1}{2}$ x $1\frac{1}{2}$ "	79c
15-851	216	.001	$\frac{1}{2}$ x $1\frac{1}{2}$ "	79c
15-852	256	.005	$\frac{1}{2}$ x $1\frac{1}{2}$ "	79c
15-853*	351	.0005	$\frac{1}{2}$ x $1\frac{1}{2}$ "	88c



SPRAGUE CAPACITOR INDICATOR

Type C-751. New pocket-sized plastic capacitor decoder provides a quick, easy way to read color codes on manufacturer's type tubular capacitors which do not have values marked on them. Just flick dials to color bands and read capacitance, tolerance, and voltage directly. Shgp. wt., 2 oz. **37-076. NET. 15c**

AEROVOX HIGH VOLTAGE MOLDED TELEVISION CAPACITORS



HV tubular capacitors. Types P6088 and P10088, are tough, rock-hard molded Duranite—designed for heavy-duty operation. Withstand temperatures from below zero to 212° F. Type P6089 are hermetically sealed oil-filled metal case units supplied with special mounting strap. All types are 6,000 working volts DC except * which is 10,000 working volts DC. Average shgp. wt., 3 oz.

No.	Type	Mfd.	Size	NET
13-795	P6088	.0005	2x $1\frac{1}{2}$ "	.79
13-796	P6088	.001	2x $1\frac{1}{2}$ "	.79
13-797	P6088	.005	2x $1\frac{1}{2}$ "	.79
13-800	P6089	.01	1 1/2x $1\frac{1}{2}$ "	1.47
13-801	P6089	.03	1 1/2x $1\frac{1}{2}$ "	1.56
13-802	P6089	.05	1 1/2x $1\frac{1}{2}$ "	1.62
13-798*	P10088	.0005	2x $1\frac{1}{2}$ "	.88

POTTER & BRUMFIELD SUPER MIDGET RELAYS

Model SM

Ultra-compact relays. Types SM5DG and SM5LG are hermetically sealed in a miniature tube glass envelope with 7-pin plug-in base to fit standard miniature sockets. Size, $\frac{1}{2}$ "x $\frac{1}{2}$ ". Type SM5D has open construction for single screw mounting. Size, $\frac{1}{2}$ "x $\frac{1}{4}$ ". SPDT coil silver contacts, rated 1 amp. at 30,000 operations. For DC operation. High dielectric bakelite form. *Extremely sensitive—0.4 watt activates coil. Shgp. wt., 3 oz.

No.	Type	Coil	NET
75-604	SM5D	6 volt DC	1.25
75-605	SM5D	24 volt DC	1.25
75-606	SM5DG	6 volt DC	2.15
75-607	SM5DG	24 volt DC	2.15
75-608*	SM5LG	5000 ohms	2.80
75-609*	SM5LG	8000 ohms	3.05

P & B LATCHING RELAYS

Latching type DPDT two-coil relays. Eliminate constant coil current and AC hum or chatter. Spring catch locks contacts in closed position when pull in coil is energized; release coil opens contacts. $\frac{1}{8}$ " fine silver dome-shaped contacts on tin-coated phosphor bronze springs, rated at 4 amps 115 volts AC non-inductive load. Have mounting holes and solder lugs. Mounted on heavy pressed steel frame. Size, $1\frac{1}{4}$ "x $2\frac{1}{4}$ "x $1\frac{1}{2}$ ". D. Av. shgp. wt., $\frac{1}{4}$ lb.

75-620.	Type EL11A.	6 volts AC.
75-621.	Type EL11A.	115 volts AC.
75-622.	Type EL11D.	6 volts DC.

NET EACH. 4.30

P & B TYPE KR11A MIDGET DPDT RELAYS

Ideal for use as antenna changeover relays with 300 ohm twin line. $\frac{1}{8}$ " silver dome shaped contacts. Rated at 3 amps 115 volts 60 cycles non-inductive load. Single screw mount with locking stud. Solder lugs. Size, $1\frac{1}{8}$ "x $1\frac{1}{8}$ "x $\frac{1}{8}$ ". Shgp. wt., 4 oz.

75-628.	6 volts AC.
75-629.	115 volts AC.

NET EACH. 2.50

For additional listings of Potter & Brumfield and other relays, see pages 145-149 of ALLIED Catalog No. 120.

SEE CATALOG 120

For additional listings of capacitors and ceramics see pages 62 to 71 of ALLIED

Catalog No. 120.



Switches—Coils—Special Values

3003L

3037L

SWITCHACT LEV-R-SWITCHES

Ultra-compact lever action switches. Can be mounted in single hole—require less than half the space used by ordinary lever switches. Ideal for low power applications. Have silver contacts, rated at 3 amps, 120 volts, non-inductive load. Overall length, 3 1/4"; width 1/4". With removable black plastic knob and mounting hardware. Av. shpg. wt., 3 oz.

SPRING RETURN TYPE

No.	Type	Action	NET
34-465	3001	SPST 2-Position	1.15
34-466	3003	SPDT 2-Position	1.32
34-467	3004	DPST 2-Position	1.47
34-468	3006	DPDT 2-Position	1.62
34-469	3033	SPDT 3-Position	1.47
34-470	3037	DPDT 3-Position	1.73

LOCKING TYPE

34-471	3001L	SPST 2-Position	1.15
34-472	3003L	SPDT 2-Position	1.32
34-473	3004L	DPST 2-Position	1.47
34-474	3006L	DPDT 2-Position	1.62
34-475	3033L	SPDT 3-Position	1.47
34-476	3037L	DPDT 3-Position	1.73

TELEX MIDGET EARPIECE

Model 4650



Midget headphone that fits comfortably and securely on the ear. So light—the user hardly feels that he is wearing it! Adjustable for use with either ear. Ideal for hospital rooms, portable radios, hearing aids, dictation machines, etc. Permits receiving with one ear while

other is free to hear what is being said in the room. Head movements cannot dislodge ear piece. Ear mount is made of transparent plastic; earpiece is of flesh-colored plastic. Available in 128-ohm and 2000-ohm impedances. With 5-ft. cord. Shpg. wt., 4 oz.

59-240. 128 ohms.
59-241. 2000 ohms.
List Each, \$10.50. NET.....6.17

41-020. Midget Phone plug for above. With screw connections. Shpg. wt., 2 oz. NET.....39c

VOLUME CONTROL BARGAINS

5 Meg Round Shaft Control



Log taper for audio grid or tone control. Bakelite case. 1 1/8" dia. x 3/8". Silver-plated lugs; 1 1/2 x 1/4" shaft. Less switch. Shpg. wt., 5 oz.

27-310. EACH.....39c
10 for.....3.50

1000 Ohm Universal Midget



Linear taper for uniform resistance variation. Case size, 1 1/2 x 1/4". Shaft, 2 x 1/4". Composition element. Noiseless contacts. No switch available. Wt., 5 oz.

30-400. EACH.....19c
10 for.....1.75



VALUES IN BAR KNOBS

Fig. A. High-quality black bakelite. Overall length, 1 3/8". Fits all 1/4" shafts. Contains slotted head set screw for firm mounting. Shpg. wt., 2 oz.

58-002. NET EACH.....39c
10 for.....2.7c

Fig. B. Attractively designed black bakelite. Overall length, 1 1/4". Fits all 1/4" shafts. Has brass insert and recessed set screw. Shpg. wt., 2 oz.

55-078. NET EACH.....9c
10 for.....72c

18



DUTCH BRAND PLASTIX ELECTRICAL TAPE

Extremely thin black vinyl plastic electrical tape with high-dielectric resistance. Only .007" thick but resists 8,000 volts. Combines the best qualities of rubber and friction tape. Excellent for all taping, binding, splicing and insulating applications in the manufacture and maintenance of electrical equipment. Stretches and conforms readily to irregular surfaces. Has tensile strength of 20 lbs per inch of width, yet can be easily torn. Stands up under the severest conditions—resists the action of water, oils, acids, alkalies and corrosive chemicals. High adhesive qualities. 1/4" wide by 44 ft. long. Shpg. wt., 4 oz.

52-614. NET PER ROLL.....1.00
Shop Pkg. of 5, NET.....4.50



T-17-B HAND-MIKE

A 200 ohm single-button carbon mike with press-to-talk switch. Built to Signal Corps specifications. Released as surplus at a fraction of Government cost. Excellent for Amateur use, mobile P.A. equipment, call systems, etc. In original factory carton. With 5-ft. rubber-covered cord. PL-68 three-circuit plug and water-proof cover. Shpg. wt., 1 1/4 lbs.

58-250. NET.....2.25

GENERAL RADIO TYPE 274-M

DOUBLE PLUG

Molded polystyrene with 3/4" spaced banana plug pins and banana jacks on top. Connect in tandem for rapid paralleling of conductor pairs. Color-coded. Lock-nut terminals. 15 amps. 1 1/2 x 1 1/8". Shpg. wt., 3 oz.

41-242. NET.....65c

BANANA PLUG VALUE

General purpose type with 3/8" shank threaded for 6-32 nut. Made of beryllium copper for extra spring tension and durability. Shpg. wt., 10, 2 oz.; 100, 10 oz.

41-071. NET EACH.....10c
10 for.....90c 100 for.....7.35

INSULATED BANANA PLUG

1 1/2" long plug with 1" phenolic handle. Solderless screw connection. Shipping weight, 1 oz.

41-405. Red. EACH.....12c
41-410. Black. EACH.....12c
10 for.....1.08 100 for.....9.70



ACADEMY AUTOMATIC PLUG

Handy, easy-to-attach cord plug. No wire stripping or tools necessary. Consists of brown bakelite cap and terminal section with brass prongs. To use, cut wire (do not strip), insert through cap into slot in terminal section. "Needles" on prongs make connection through insulation. Offset slot "ties" cord securely. For POSJ type cable only. Shpg. wt., 3 oz.

52-607. NET EACH.....15c
Display Box of 36, NET.....3.51

NATIONAL MULTI-BAND TANK ASSEMBLIES

Type MB-150

Tunes continuously all frequencies from 80 thru 10 meter Amateur bands—with no coil changing or other adjustments except setting of 180° rotation tank condenser. Constant L/C ratio is maintained. Rated at 150 watts. Permits 1500 volt peaks. Permits efficient all-band amplifier design. Consists of 3 coils, a 4-gang tank condenser unit, and RF choke in a compact, steatite-insulated multi-band tuning circuit. For balanced or single-ended amplifiers using link or capacity coupling between any combination of amplifier circuits. Link matches any impedance from 50 to 600 ohms. Eliminates shock hazards of coil changing, adding to transmitter safety. Size, 3x8 1/4 x 9". With full instructions. Shpg. wt., 4 lbs.



71-046. NET.....18.75

Low Power Type MB-40L

Similar to MB-150 but handles up to 40 watts with output link loaded, 20 watts without load. Use in grid circuits or in low power transmitter. Frequency coverage, output impedances and circuit same as MB-150. Size, 7 1/2 x 2 1/2 x 3 3/8". Shpg. wt., 3 lbs.



71-045. NET.....9.90

NATIONAL TU-BY RF BYPASS CONDENSERS

Tubular aluminum bypass condensers. Drastically reduce TVI by providing short RF path to ground for VHF harmonics. Steatite terminals. Spade mtg. bolts threaded for 8-32 nuts. Shpg. wt., 1/2 lb.

71-098. 15 Mmfd., 3000 V. Wkg.

Overall size 1 1/2 x 3/4".

71-099. 15 Mmfd., 1500 V. Wkg.

Overall size 1 x 5/4".

NET EACH.....1.80



MILLEN CONDENSERS

Ultra-Midget Types

Type 20025. 24 mmfd. 7 plates. Steatite insulation. 2 1/4" long. Shpg. wt., 4 oz.

72-044. NET.....1.11

Type 21935. 35 mmfd. 25 plates. Steatite insulation. Double bearing and spacing. 3/8" long. Shpg. wt., 6 oz.

72-045. NET.....1.92

Midget Type

Type 22140. 140 mmfd. 27 plates. Steatite insulation. 2 3/8" long. Shpg. wt., 5 oz.

72-047. NET.....2.31



CAMBRIDGE THERMIONIC COILS

Type LS-3. Extra-small slug-tuned coils for use in broad-band RF amplifiers. Have powdered iron slug, tuned by screwdriver slot in the 6-32 threaded slug screw. Mount in single 1/4" hole. 3/8" diameter; 1 1/4" high when mounted. Av. shpg. wt., 2 oz.

72-294. Coil Form. NET.....42c

72-295. 1 Mc Coil. NET.....81c

72-296. 5 Mc Coil. NET.....76c

72-297. 10 Mc Coil. NET.....72c

72-298. 30 Mc Coil. NET.....72c

72-299. 60 Mc Coil. NET.....72c



EL Menco FUSED PLUG

Fuse all your line cords with this ingenious AC plug! Small fuses for each side of line fit snugly in cylindrical receptacles—blown fuses easily removed for quick replacement. Protects equipment, prevents blown fuse "blowouts." Sturdy molded construction. Interchangeable with any standard AC plug. Less 3AG cartridge fuses. Wt., 3 oz.



52-648. NET.....24c

Sockets—TV Components

SPECIAL VALUES IN SOCKETS

4 PRONG WAFER TYPE



High-grade wafer type sub-panel sockets. Laminated bakelite construction. Insulated top. One-piece contacts are full floating and self aligning. Lugs tinned for ease in soldering. 1 1/2" mounting centers. Shpg. wt., 2 oz.; 10, 8 oz.

40-224. NET EACH..... 4c
10 for..... 35c

OCTAL TYPES



Bakelite-Insulated. Plated contacts. Flange mounting. Body diameter, 1". Four ground tie-lugs. Ideal for replacements. 1 1/4" mtg. centers. Shpg. wt., each, 2 oz.; 10, 10 oz.

58-150. 10 for 30c.
NET EACH..... 4c

Isolantite-Insulated. Low-loss type; excellent for RF use. Metal mg. plate. Silver-plated contacts, 1 1/4" dia. Mtg. centers, 1 1/4". Shpg. wt., each, 2 oz.; 10, 10 oz.

58-154. NET EACH..... 9c
10 for..... 81c

Retainer Ring Isolantite Octal. Ideal for all low-power RF applications. 1 1/4" diameter. Shpg. wt., each, 2 oz.; 10, 8 oz.

58-153. NET EACH..... 10c
10 for..... 90c

TELEVISION TUBE SOCKET



Designed for magnetic-deflection television and oscilloscope tubes, such as the 7DP4, 10BP4, 10KP7, etc. Made of laminated bakelite. Internally connected with RMA color-coded leads, 12" long with tips tinned, ready for soldering. Ideal for replacement and experimental use. Wt., 4 oz.

40-291. NET..... 44c



VECTOR SOCKET-TURRETS

Standard tube sockets with hollow phenolic turret cylinders permanently bonded to bottoms. Strategically located tie-points make it easy to achieve efficient "short lead" mounting of small components. Turrets form sub-assemblies which can be wired separately and easily inserted or removed from chassis. Simplify construction—save chassis space, assembly time, etc. Improve HF performance by reducing stray capacitance. Turret cylinders are 1/2" in diameter. Except for miniature turrets, coils can be wound on turret cylinders. Octals mount in 1" hole; miniatures, 3/4" hole. Locals, 1 1/4"; novals, 3/4". All are mica-filled. When type number ends in "TS" socket-turret has a shield which extends to top of tube base. Average shpg. wt., 3 oz.

Fig. A. 2 1/2" Turrets. Octal and local types only. Have nine lug terminals in two rings spaced 1 1/2" apart.

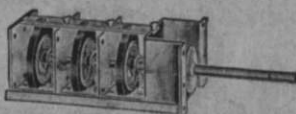
Stock No.	Type	Socket	Each
40-211	10-O-9T	Octal	59c
40-214	10-L-9T	Local	68c

Fig. B. 2" Turrets. Octal and local sockets have 9 terminals in 2 rings spaced 1" apart; miniature socket terminal spacing 1 1/4".

40-212	8-O-9T	Octal	57c
40-215	8-L-9T	Local	66c
40-217	8-M-9T	Miniature	63c
40-222	8-N-9TS	Miniature	22c
40-233	8-N-9T	9-Pin Noval	68c
40-231	8-N-9TS	9-Pin Noval	77c

Fig. C. 1 1/2" Turrets. Have 6 terminals in 1 ring only, at far end of turret.

40-213	6-O-6T	Octal	54c
40-216 <th>6-L-6T</th> <th>Local</th> <th>63c</th>	6-L-6T	Local	63c
40-218 <th>6-M-6T</th> <th>Miniature</th> <th>60c</th>	6-M-6T	Miniature	60c
40-223 <th>6-M-6TS</th> <th>Miniature</th> <th>69c</th>	6-M-6TS	Miniature	69c
40-234 <th>6-N-6T</th> <th>9-Pin Noval</th> <th>65c</th>	6-N-6T	9-Pin Noval	65c
40-232 <th>6-N-6TS</th> <th>9-Pin Noval</th> <th>74c</th>	6-N-6TS	9-Pin Noval	74c



MALLORY SPIRAL INDUCTORS

Continuous Tuning, 52-216 mc

New 3- and 4-gang variable inductance units for TV, VHF and FM tuning. Provide accurate continuous tuning of the entire frequency spectrum from 52 to 216 mc in six turns of shaft, without bandswitches, plug-in coils or turret coil assemblies. The Inductors are tuned by means of a single 1/4" shaft which varies the inductance of each spiral wound coil simultaneously. Automatic stops at maximum and minimum inductance position. Provided with rigid metal bracket for tuning dial. Behind panel size, 3-gang: 4 1/4" x 2 1/4"; 4-gang: 5 1/4" x 2 1/4". Shaft length, 2 1/4". Have four 8-32 mounting holes. Specifications and diagrams included. Average shpg. wt., 2 lbs.

60-260. Type 8303. 3-gang Inductor. List, \$15.00. **NET..... 9.80**

60-261. Type 8304. 4-gang Inductor. List, \$18.00. **NET..... 11.76**



C-51



C-60



C-80

JERROLD TELEVISION COAXIAL CABLE CONNECTORS

New low-cost solderless coax cable connectors for RG-59/U and other 250' cable. Low-loss. Ruggedly constructed of die-cast zinc and machined brass shells. Silver-plated for high conductivity. Average shpg. wt., 1 oz.

40-300. Type C-51. Male Connector. Fits C-60 female receptacle. **NET..... 45c**

40-301. Type C-60. Female Receptacle. Bakelite insert. Threaded stem, 1/4" long. Fits C-51 male connectors. **NET..... 48c**

40-302. Type C-80. Cable Junction. Feed-through unit. Both ends fit Type C-51 male connector. Polystyrene insert. **NET..... 60c**

BARGAIN COAX CONNECTOR

Standard PL-259 coax cable connector, same as Amphenol ISP. Fits type 1R and similar connectors. For RG-8/U and other 405' diameter coaxial cables. Die-cast zinc and machined brass shells are silver-plated to provide maximum conductivity. Have low-loss mica-filled insert. Stock up now while quantities last. Shpg. wt., 2 oz.

58-144. NET..... 39c



TV POWER CORD AND CONNECTOR

Quick disconnect TV power supply line cord. Identical to original equipment on most TV sets. Flexible, size 18, all-rubber parallel A.C. cord, 6 feet long. Molded-on all-rubber female connector. Unbreakable soft rubber plug. U.L. Approved. Shpg. wt., 8 oz.

49-237. NET..... 46c

Male connector. Flush mounting type for use with cord above. Shpg. wt., 2 oz.

49-238. NET..... 11c

LATEST SOCKET VALUES

MINIATURE 7-PIN



Fig. A. Sub-panel 7-pin miniature socket. Wafer-type laminated, bakelite. Insulated top, 1" mtg. centers. Shpg. Wt., 2 oz.

58-004. NET EACH..... 6c
10 for..... 54c

CINCH-JONES 54A13686 8-PIN SOCKET

Fig. B. New sub-miniature 8-pin socket for use with RCA 1AC5, 1AD5, 1E8, 1T6, and other sub-miniature tubes. Low-loss mica-filled bakelite construction. Wt., 1 oz.

40-242. NET..... 41c

AMPHENOL 16" TV TUBE

MOUNTING ACCESSORIES

TUBE MOUNTING BRACKET

Mounting bracket for 16" glass picture tubes. Ideal for replacements and for mounting tubes in custom installations. Holding straps are of fibre laminated phenolic. Live rubber cushions assure vibration-free reception. Molded polystyrene base. Easily attached to chassis or cabinet. Shpg. wt., 2 lbs.

40-159. Type 187-360. 4.29
List \$7.30. NET.....



MOLDED POLYETHYLENE RIMS

For 16" metal tubes. Provide superior mounting. Give better protection for tubes and adequate insulation. Long creepage paths. Heavy, uniform wall. Retainer groove for safety or masking glass. Shpg. wt., 8 oz.

40-157. Type 187-072. 2.15
NET.....

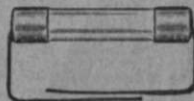
40-158. Same as above, less retainer groove.
Type 187-079. NET..... 1.97



INDOOR TV ANTENNA VALUE

All-channel, adjustable antenna for use in localities where outdoor antennas are not practical. Provides excellent reception within primary service areas. Efficient in operation—easy to install and use. Each element has 3 telescoping sections—easily adjustable for best signal pickup on any channel. Attractive gold-colored base with locking knob permits holding arms rigidly at any angle. Can be placed on receiver cabinet or nearby table—felt base pad protects furniture. Small red plastic spheres decorate antenna tips. Furnished with 10 ft. of twin lead and complete instructions. Shpg. wt., 2 lbs.

97-357. NET..... 2.59



LITTELFUSE TELEVISION WIRE LEAD FUSES

Type 3AG. Tinned 1 1/2" wire pigtail leads. Solder into circuit where space is limited. Exact replacements in TV sets by Admiral, RCA, Zenith, Dumont, etc. Slo-blo action except *quick-acting. Size, 1 1/2" x 1/2". U. L. Approved. Shpg. wt. per pkg. of 100, 14 oz.

Stock No.	Mfrs. Type	Amps.	Volts	5 For	100 For
52-215*	318.250	1/4	250	58c	9.80
52-216	315.250	1/4	125	88c	14.70
52-217	315.002	2	125	73c	12.25
52-218	315.003	3	125	73c	12.25

TIMING DEVICES 24-HOUR CLOCK FOR AMATEUR AND SWL USE

An all-electric, self-starting 24-hour clock for Radio Amateurs and Short-Wave Listeners. Indicates correct time anywhere in the world at a glance. Makes log-keeping easy in Greenwich Mean Time or 24-hour time (0000-2400). 10" dial face shows minutes, seconds (sweep second-hand) and hours; 6" rotating inner dial attached to hour hand shows time directly in all world time zones. Key cities and localities are clearly marked in red and blue letters for easy identification. Synchronous 60 cycle, 110 volt A.C. motor. Wall-mounting type. Housed in handsome case, finished in gray, with chrome trim. Clear crystal. The perfect clock for use in Amateur radio station. SWL "Listening Post" or desk. Shpg. wt., 3 lbs.

78-325. Type TD-2400. NET, including excise tax..... 15.00



Transformers—TV Parts

RCA TELEVISION COMPONENTS



HV & HOR. TRANSFORMER—FIG. A

For use in pulse-operated (flyback) power supplies of TV receivers with anode potentials up to 12 kilovolts. Provides full deflection for 10BP4 or 12LP4 with a single-driver tube such as 6AU6GT. Delivers high voltage to 2 rectifier tubes (1V2), in a voltage-doubling circuit. Two filament windings. Terminals for width and linearity controls listed at right. Mfg. ctrs., 2x2 1/2". Shpg. wt., 1 1/4 lbs.

77-548. Type 217T1. NET..... 3.29

MAGNETIC DEFLECTING YOKE—FIG. B

For use with 10BP4 and 12LP4 kinescopes, and with RCA 217T1 transformer above. May be used with any kinescope having neck diameter of 1 1/2" and a deflection angle up to about 60 degrees. Molded spool and molded iron core. Shpg. wt., 1 1/4 lbs.

77-545. Type 205D1. NET..... 4.41

MAGNETIC DEFLECTING YOKE—FIG. B

Magnetic deflection yoke designed especially for use with directly viewed kinescopes which require a magnetic deflection angle of 50°, such as RCA types 7DP4 and 10BP4 kinescopes. Shpg. wt., 1 1/4 lbs.

77-577. Type 201D3. NET..... 8.76

COMPONENTS FOR USE WITH 16GP4 KINESCOPE

H-D OUTPUT HV TRANSFORMER—FIG. A

Horizontal output for 70° deflection systems and HV transformer for pulse-operated power supplies up to 14 KV. Provides full deflection for 16GP4 and HV to 2 rectifiers in voltage-doubling circuit. Separate filament windings. Size: 3 1/2"x3x2 1/2". Wt., 1 1/4 lbs.

77-575. Type 218T1. NET..... 3.29

DEFLECTION YOKE—FIG. B

Magnetic deflection yoke for use with kinescopes having 1 1/2" neck diameter and deflection angles to 70°. Designed especially for use with 16GP4 kinescopes and with 218T1 horizontal deflection output and HV transformer. Molded spool and ferrite core. Outside diameter, 1 1/2"; inside diameter, 1.5404". Coil ends are brought out to terminals. Shpg. wt., 1 1/4 lbs.

77-574. Type 206D1. NET..... 5.29

RCA ISOTAP TRANSFORMERS

NEW TYPE WP-25A TV ISOTAP



New combination isolation and auto transformer especially designed for TV servicing. Permits testing of TV sets at correct line voltage and at ranges from 105 to 130 volts. High voltage input speeds servicing by breaking down intermittent tion provided for safe servicing of sets not equipped with power transformers. Provides 500 VA load from auto transformer winding; 275 VA load from isolated secondary winding. Both windings are equipped with triple-outlet receptacles providing voltages of 105, 115, and 130 volts. Primary winding is equipped with a 7-position switch for 105 to 130 volts in 5-volt steps, at 50-60 cycles. Gray steel case, 5x5 1/2"x4 1/4". With 5-ft. cord. Shpg. wt., 15 lbs.

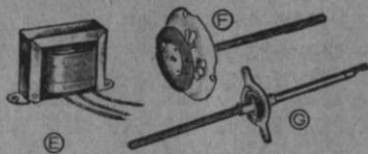
62-516. NET..... 16.50

TYPE WP-24A ISOTAP



Combination isolation and auto transformer similar to above, but for radio servicing. 100 VA continuous, 150 VA intermittent. Tap switch for any input, 105 to 130 volts, in 5-volt steps, 50-60 cycles. Use 130 volts for breakdown test, or for extra-hot soldering iron. Metal case, 5 1/2"x4 1/2"x4 1/2". With 5-ft. cord. Shipping weight, 8 lbs.

62-515. NET..... 8.95



WIDTH CONTROL—FIG. C

Designed for use with 10- and 12-inch kinescopes such as 10BP4 and 12LP4; with the 217T1 transformer and 205D1 deflecting yoke described at the left. Mounts in .317" diameter hole. Shpg. wt., 4 oz.

77-546. Type 206R1. NET..... 59c

HORIZONTAL CONTROL—FIG. D

Horizontal linearity control designed for use with picture tubes such as 10BP4 and 12LP4; with 217T1 transformer and 205D1 yoke. Mounts in .317" dia. hole. Wt., 4 oz.

77-547. Type 207R1. NET..... 71c

TUNER DETENTS

Fig. F. Short shaft detent for type 201E1 tuner channel switch in 630TS television receiver. Shipping weight, 5 oz.

77-570. Type 71463. NET..... 1.65

Fig. G. Long shaft detent for type 201E1 RF tuner channel switch in 8TS30 TV receiver. Shipping weight, 6 oz.

77-571. Type 72743. NET..... 1.85

Fig. G. For channel switches of latest RCA model TV sets of the 240-270 series. Shipping weight, 6 oz.

77-572. Type 73440. NET..... 2.79

WIDTH CONTROL—FIG. D

Variable inductor for adjusting picture width on 16GP4 kinescopes. Adjustable powdered-iron core. Use with 218T1 and 206D1. Shipping weight, 4 oz.

77-573. Type 208R1. NET..... 59c

HORIZONTAL LINEARITY CONTROL—FIG. D

Variable inductor for use with 218T1 and 206D1. Adjustable powdered-iron core. Shipping weight, 4 oz.

77-574. Type 209R1. NET..... 71c

VERTICAL OUTPUT TRANSFORMER—FIG. E

Output transformer for use in the vertical deflection circuit. Designed especially for use with 16GP4 kinescope and with 206D1 deflecting yoke and 654 vertical-deflection-output tube. Shpg. wt., 1 1/4 lbs.

77-576. Type 222T1. NET..... 1.76

SOLA CVE CONSTANT VOLTAGE POWER TRANSFORMERS

Type 7105. Extremely efficient voltage stabilized power transformer. Replaces ordinary power transformer, and provides excellent voltage regulation at low cost. Stabilizes plate and filament voltages within ± 3%—even with line variations from 100-130 volts—and does it constantly, instantly and automatically. DC input to filter, 275 volts @ 50 ma. Fil. 6.3 v CT at 2 1/2 A; 5 v @ 2 A. 42 VA rating. With external resonating capacitor and mounting brackets. Shipping weight, 6 lbs.

62-669. NET..... 10.15

Type 7106. Same as above, but furnishes 385 volts DC to filter @ 110 ma. Filaments, 6.3 v CT @ 3A; 5 v @ 2A. 75 VA. Shpg. wt., 9 lbs.

62-670. NET..... 12.60

Type 7107. As above, but 380 v DC to filter @ 250 ma. Fil., 6.3 v @ 4A; 6.3 v @ 3A (unreg.); 5 v @ 3A. 210 VA. Shpg. wt., 19 lbs.

62-671. NET..... 19.60

THORDARSON PHOTO-FLASH TRANSFORMER

Type T-22R44. Open frame type with leads. Supplies high voltage ionizing pulse for firing high pressure 3-electrode photo-flash tubes. Primary 200 volts DC discharge from 25 to 5 microfarad condenser. Secondary, 15,000 volts peak. Size, 2 1/4" wide, 1 1/2" high, 1 1/4" deep. Single hole mounting. Shpg. wt., 8 oz.

63-722. NET..... 3.18

STANCOR TV COMPONENTS

TV POWER TRANSFORMERS

Type P-8158. Exact replacement for Sentinel 22E27 and 22E27-2. Plate supply, 117 volts @ 600 ma., rms. Fil., 1, 6.3 v @ 4.2 A; 2, 6.3 v @ 4 A; 3, 6.3 v @ 2 A. Copper shorting band reduces image distortion. Size, 3 1/2"x3 1/2"x4 1/4". Mfg. centers, 2 1/2"x3 1/2". Shipping weight, 6 1/2 lbs.

64-575. NET..... 7.29

Type P-8159. Exact replacement for RCA 201T8. Delivers 355 volts DC @ 250 ma into 40 microfarad condenser input filter following a 5U4-G full-wave rectifier. Rated 720 v. AC CT @ 250 DC ma; 5 v @ 3 A; 5 v @ 2 A; 6.3 v @ 8 A; 6.3 v @ 0.6 A. Size, 3 1/2"x3 1/2"x4 1/4". Mfg. ctrs., 3 1/2"x3 1/2". Wt., 10 lbs.

64-576. NET..... 11.14

Type P-8160. Exact replacement for Admiral 80B17. Supplies two outputs simultaneously: 5U4-G (382 v. DC @ 185 ma across 40 microfarad input) and 6X5 (155 v. DC @ 65 ma across 30 microfarad input). 720 v. AC CT @ 185 DC ma; 330 v. AC CT @ 65 DC ma; 5 v @ 3 A; 6.45 v @ 12 A. 3 1/2"x4 1/2"x4 1/2". Mfg. ctrs., 3x3 1/4". Shipping weight, 10 lbs.

64-577. NET..... 9.88

VERTICAL DEFLECTION OUTPUTS

Type A-8112. Vertical deflection output transformer. Exact replacement for Air King PB-1352. Turns ratio, 10:1. Overall size, 3 1/2" wide, 2" high, 1 1/4" deep. Mounting centers, 2 1/2". Wt., 1 lb.

64-522. NET..... 2.00

Type A-8113. Exact replacement for Admiral 79B24. Turns ratio, 8.8:1. Size, 3 1/2"x2 1/4". Mfg. ctrs., 2 1/2". Shpg. wt., 1 lb.

64-523. NET..... 2.03

HV & HORIZONTAL OUTPUTS

Type A8117. Designed for general replacement applications in conjunction with types DV-1 or RCA 201D1 deflection yokes for 7DP4, 10BP4, etc. Use with 6BG6-G deflection amplifier and 1B3GT as a pulse rectifier. A high-quality TV component, physically and electrically identical to RCA type 211T1 horizontal output transformer. Overall size, 2 1/2"x4 1/2"x3 3/4". Shpg. wt., 2 lbs.

64-515. NET..... 4.12

Type A8128. Develops 12 to 12 KV with adequate sweep for 12 1/2" kinescopes. Useful for converting sets to use 16AP4, etc. at reduced brilliance. Shpg. wt., 2 lbs.

64-521. NET..... 5.59



HIGH QUALITY TV COMPONENTS AT BARGAIN PRICES

Exact replacement units at low cost. Designed for use with most modern TV sets.

Power Transformer. Same as RCA type 201T8, 360-0-360 volts AC @ 250 ma; 6.3 v @ 6 A; 5 v @ 2 A; 5 v @ 3 A; 6.3 v @ 8 A. Hall shell mounting. Mfg. ctrs., 3 1/2"x4 1/4". Size, 3 1/2"x4 1/2"x5 1/4". Wt., 13 lbs.

58-239. NET..... 2.25

Focus Coil. Same as RCA 202D1. For kinescopes requiring 50° deflection. Shpg. wt., 8 lbs.

58-240. NET..... 99c

Vertical Output Transformer. Same as RCA type 201T2. Couples vert. out. tube to yoke. For most TV tubes. Wt., 3 lbs.

58-241. NET..... 2.20

Ion Trap Magnet. Same as RCA type 203D1. Field coil type. Fits 1 1/2" to 1 1/4" neck diameters. Shpg. wt., 8 oz.

58-242. NET..... 75c

See ALLIED Catalog No. 120, pages 5-7, 59, 63, 73, 158 and 159, for listings of additional TV components.

TVI Filters—Wave Traps

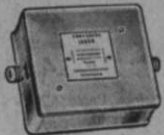
R. L. DRAKE TVI FILTERS HI-PASS TYPE FOR RECEIVERS



A "feed-thru" type interference filter for use at antenna terminals of TV set. Completely eliminates all interference in many installations. Provides up to 60 db attenuation of signal-type interference from diathermy, commercial or Amateur radio stations, industrial equipment, etc. Attenuates interference from zero to 50 mc. Helps reduce "snow" interference in fringe areas. Available in 300-ohm twin-lead and 72-ohm coax types. Metal case, 3x3x1 1/4". Easy to install—no adjustments to make. Supplied with instructions. Shpg. wt., 1/2 lb.

77-555. TV-300-50HP. 300-ohm.
77-556. TV-72-50HP. 72-ohm.
NET EACH.....3.50

LO-PASS TRANSMITTER FILTERS



M-derived, 2-section filters. Reduce or eliminate antenna radiation of TVI-producing Amateur harmonics. Attenuation starts at 44.5 mc, reaching 40 db at 56 mc and above. Negligible insertion loss. Connect in series with transmission line to antenna or coupler; case grounds to transmitter chassis. High efficiency results from skillful engineering and use of coaxial capacitors. For 52-ohm coax or 300-ohm twin-lead transmission line. 5x4 1/2 x 1 1/4". Shipping weight, 2 lbs.

77-557. TV-52-40LP. 52-ohm.
77-558. TV-300-LP. 300-ohm.
NET EACH.....12.69

HALF-WAVE HARMONIC FILTERS



Two section, half-wave harmonic filters. Will greatly attenuate or eliminate all antenna-radiated Amateur transmitter harmonics. For single band use in 200-600 open wire or 300-ohm twin lead transmission lines. Negligible insertion loss. Will handle 1 KW AM modulated output. Feed-thru type in gray steel case, 5x4 1/2 x 1 1/4". Install same as low pass type above. With instructions. Wt., 2 lbs.

77-554. TV-300-10HW. For 10-11 meters.
77-556. TV-300-20HW. For 20 meters.
NET EACH.....10.73

HOUSE OF TELEVISION

WAVE TRAPS



Quickly installed wave traps to reduce TV interference from adjacent channel FM stations or harmonics from 14 and 28 mc Amateur stations. Connect in parallel across antenna input terminals of television set. Have powdered iron-core slug-tuned coils and ceramic condensers. 5" twin-lead connecting ribbon with tinned lugs. Bracket illustrated measures 2 1/4 x 1 1/4"; mounts easily at rear of TV set. With instructions. Shpg. wt., 4 oz.

77-550. 300-10-30. Amateur type.
77-551. 300-80-110. FM image type.
NET EACH.....1.62

CLAROSTAT TV BEAM BENDERS



Type TV-2. Single-magnet beam bender illustrated at left. Use with bent-gun kinescopes when replacing conventional types. Shpg. wt., 3 oz.
77-552. NET.....1.18

Type TV-3. Double-magnet type. For straight-gun conventional kinescopes. Shpg. wt., 4 oz.
77-553. NET.....1.76

ELDICO TVI KITS AND EQUIPMENT

GRID DIP OSCILLATOR



Type GDO. You can do a better job of TVI elimination with this improved grid dip meter. Features new high sensitivity regeneration circuit. Permits locating and measuring resonant circuits in your equipment without applying power to it, measures harmonic radiation and greatly facilitates accurate construction of traps and filters. Helps to locate parasitic oscillations and permits accurate neutralization. An invaluable time-saving instrument for all experimenters. Kit contains every part, including case designed for one-hand operation, and full instructions. Range in 6 steps: 3 to 250 mc. Size: 5 1/2 x 2 3/4 x 3". With tube and built-in power supply for operation from 105-125 volts, 50-60 cycles AC. Shpg. wt., 5 lbs.
84-964. NET.....24.50

HARMONIC CHASER KIT



Type TVH. Modified absorption wavemeter for locating and measuring Amateur transmitter harmonics falling in any of the 12 television channels. Designed to eliminate swamping by interference. Complete with all parts except meter. Requires a sensitive external current indicator such as the 0-500 microampere meter listed below. Also can be used with most voltohmmeters. 3x3x4". With instructions. Shpg. wt., 1 1/2 lbs.
77-600. NET.....4.98

Type TVH. Wired and Tested. Harmonic chaser ready to operate. Requires external indicating meter. Shpg. wt., 1 1/2 lbs.
77-601. NET.....9.98

500 MICROAMMETER

Type TVH-500. A 0-500 microammeter in case to match Harmonic Chaser. Size: 3x3x2 1/4". Shpg. wt., 1 lb.
77-602. NET.....6.50

HIGH-PASS RECEIVER FILTERS



Type TVR Kits. Install directly at antenna coil of television receiver. Reduces signal-type interference from industrial equipment, diathermy, commercial or Amateur transmitters and similar sources. Does not otherwise affect television picture strength or quality. Cut-off at 40 mc, with no attenuation above this frequency. Negligible insertion loss. Easy to build. Complete with all parts and full instructions. For use in coaxial or 300-ohm twin-lead transmission lines. Size: 2 1/4 x 1 1/4 x 1". Shpg. wt., 1/2 lb.
77-603. TVR-300. 300-ohm.
77-604. TVR-62. Coaxial. EACH.....1.98

Type TVR. Wired and Tested. High-pass receiver filter ready to use. With complete instructions for connecting. Shpg. wt., 1/2 lb.
77-561. TVR-300. 300-ohm.
77-562. TVR-62. Coaxial. EACH.....3.98

MEISSNER WAVE TRAPS



High-Q tunable resonant circuits for elimination or reduction of signals interfering with FM or TV reception. Connect in antenna transmission line at the receiver. "Tune out" unwanted signals from FM, taxicab Amateur, commercial telephone, and other transmitters. When selecting wave trap from listing below, choose the type whose range includes the frequency of the interfering signal. All are designed for use with receivers having following balanced or unbalanced antenna inputs: 50, 72, 300, and 400 ohms. Av. shpg. wt., 8 oz.

60-203. Type 15-7510. 6-13 mc.
60-204. Type 15-7511. 13-27 mc.
60-208. Type 15-7512. 27-54 mc.
60-209. Type 15-7513. 54-108 mc.
60-210. Type 15-7514. 108-216 mc.
List \$5.00. NET EACH.....2.94

LOW-PASS TRANSMITTER FILTERS

Type TVD-62 Kit. Two-section M-derived low-pass type. Drastically suppresses or eliminates antenna-radiated TVI-producing Amateur transmitter harmonics. Effective on all Amateur bands below 30 mc. Install one unit in transmission line to antenna, another in coupling cable to high-power final amplifier if needed. Has 40 mc cut-off with over 75 db harmonic attenuation at higher frequencies. For 52 or 72 ohm lines. An antenna tuning unit permits use with lines of other impedances. Handles up to 1 KW AM modulated transmitter output with negligible insertion loss. Kit includes all parts, including shielded case and detailed instructions for assembly. Size, 9 1/2 x 4 1/4 x 2 1/4". Shpg. wt., 3 lbs.
77-605. NET.....7.99

Type TVD-62. Wired and Tested. Low-pass filter, assembled and ready to use. With instructions. Shpg. wt., 3 lbs.
77-559. NET.....10.99

DIAXIAL FILTERS

Type TVD-104 Kit. A dual low-pass Amateur transmitter filter for use where two 52-72 ohm coax cables such as RG-8/U or RG-58/U are used in pairs to achieve approximately 100 ohms transmission line impedance. Consists of two TVD-62 filters in a single case. Has 4 type 1R coax connectors, two each for input and output. With all parts and instructions. Size, 9 1/2 x 4 1/4 x 1 1/4". Shpg. wt., 5 lbs.
77-607. NET.....14.95

Type TVD-104. Wired and Tested. Di axial filter, assembled and ready for installation. Shipping weight, 5 lbs.
77-608. NET.....17.95

BRUTE FORCE LINE FILTERS

Type TVL. Two-section brute force type filter for use in AC line of an Amateur transmitter. Effectively bypasses RF and keeps it from the AC mains. Highly recommended for TVI prevention in cases where interference reaches the TV receiver through the AC lines. Also helps prevent ECL. Flat shielded case measuring 4 3/4" wide, 9 1/2" long and 2 1/4" high permits easy mounting inside transmitter cabinet if desired. Conservatively rated for long, dependable service. Heavy-duty line cord and plug, and female AC outlet receptacle. With instructions.

Type TVL-1 KW. Kit. Handles total maximum power from line of 1 KW. Shipping weight, 3 1/2 lbs.
77-610. NET.....5.98

Type TVL-1 KW. Wired and Tested. Ready to install. Shpg. wt., 3 1/2 lbs.
77-562. NET.....8.98

Type TVL-2.5 KW. Kit. Handles total maximum power from 110 or 220 AC line of 2.5 KW. Shpg. wt., 6 lbs.
77-609. NET.....11.98

Type TVL-2.5 KW. Wired and Tested. Ready to use. Shpg. wt., 6 lbs.
77-608. NET.....17.98

MILLER TV PRODUCTS

TV HIGH-PASS FILTER

For use at the television receiver to reduce signal interference from medical, industrial, commercial and Amateur electronic and radio equipment. Attenuates all signals below 40 mc. Greatly improves TV reception. Install at TV set antenna terminals. In aluminum case, 1 7/8 x 1 1/2 x 3 1/2". For 300-ohm lead-in. Shipping weight, 1/2 lb.
70-191. Type 6168. NET.....2.94

ANTENNA TRANSFORMERS

Permits use of low-loss 52 or 72 ohm coaxial cable on standard 300-ohm receiver inputs. 2 required for 300-ohm antennas; one at antenna, and one at receiver. Mounting bracket and solder terminals. With instructions. Shpg. wt., 2 lbs.
77-516. Type 6161. 52 Ohm.
77-517. Type 6162. 300 Ohm.
NET EACH.....1.47

Television Accessories

ALLIANCE "TENNA-ROTOR"

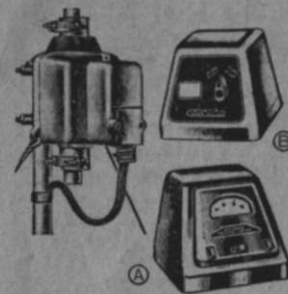


Fig. A. Popular antenna rotating mechanism and remote control with direction indicator. For uni-directional TV, FM and other UHF antennas weighing up to 20 lbs. Permits instantaneous remote-control orientation for minimum "ghost" on each TV channel. Ideal for use in areas where stations are not centrally located. Provides full 360° rotation in either direction; automatically stops at either end. Rotor is controlled by a 3-position switch on the remote control unit; start-stop-reverse. Direction indicator shows exact direction in which antenna is pointing. As antenna rotates, needle travels across compass dial marked N, E, S, W, with mid-points between.

Indicated by dots. Mounted in zinc die-cast waterproof housing. Four-conductor cable connects rotator with remote control; may be passed through mast and rotator to avoid line twist. Unit is factory-lubricated for life. With instructions, but less cable (see listing below). When used in conjunction with special Thrust-Bearing Bracket (see listing below) can be used to support and rotate TV, FM and Amateur antennas weighing as much as 300 lbs. For 110-120 volt 60 cycle AC. Power drain, 30 watts. U.L. Approved. Shpg. wt., 12 lbs.

- 97-472. List, \$44.95. NET..... 26.43
- Fig. B. "Tenna-Rotor" as above, but control box is less Direction Indicator. Shpg. wt., 12 lbs. 97-473. List, \$34.95. NET..... 20.55
- 97-479. Thrust-Bearing Bracket. Increases weight load capacity of "Tenna-Rotor" to 300 lbs. Shpg. wt., 3 lbs. NET..... 2.91
- 97-365. 4-Conductor Cable. Weatherproof power and control cable for use with "Tenna-Rotor" units listed above. Wt., per 100 ft., 3 lbs. NET per ft., 2 1/2¢ 100 ft. for..... 2.25

RADIART "TELE-ROTOR"

New heavy-duty remote control antenna-rotating mechanism. Provides more perfect TV-FM-UHF reception by aiming antenna at desired signal. Durably constructed—has built-in thrust bearing to handle installations weighing as much as 150 lbs. with ease. Accommodates upper and lower masts from 1/4" to 2" in diameter. Mounts on any type of structure. Control box with "Perfect Pattern" compass-type dial turns antenna in any desired direction with exact antenna position indicated. As antenna rotates, the letters N, E, S, W light up to indicate the direction in which it is traveling. Stations can be logged on face of dial in space provided. Heavy-duty motor provides 375° rotation in each direction, with positive stop at end of rotation. Finger-tip pressure actuates motor permits instantaneous stop, start, reverse. Eight-conductor cable connects rotator with control box. Built-in step-down transformer furnishes low voltage power to operate the indicating lights and the rotator motor. Plugs into 110-120 volt, 60 cycle AC output. Heavily reinforced die-cast aluminum housing in streamlined weather-proof design. Heavy-duty machined precision gears with 12 ball bearings in two 6 1/2" diameter bearing races. Oilite bearings are factory lubricated for life. Four guy wire lugs provided in the lower mast bracket for guying purposes. Shpg. wt., 14 lbs.



- 97-463. Model TR-2. List, \$44.95. NET..... 26.43
- 8-Conductor Cable. Weatherproof power and control cable for use with TR-2 "Tele-Rotor" unit above. Shpg. wt., per 100 ft., 4 lbs. 47-586. NET per ft., 5¢ 100 ft. for..... 4.50
- Model TR-1 "Tele-Rotor." As above, but less "Perfect Pattern" dial and direction indicator on control box. Requires 4-conductor cable (see listing at left). Shpg. wt., 14 lbs. 97-464. List, \$37.45. NET..... 22.02

ELECTRO-VOICE "TUNE-O-MATIC" TV BOOSTER



New fully automatic TV booster for all channels. No tuning—no switches to operate! Booster has no controls and is actuated by television receiver. Eliminates intricate manual alignment of receiver and booster controls. The Electro-Voice "Tune-O-Matic" is turned on or off by the TV receiver and automatically provides added signal strength to the channel selected by the receiver dial. Two 2-stage broad-band amplifiers are employed in a unique position remote from receiver. Has bracket for secure mounting anywhere. Well ventilated and insulated. Silver-plated RF chassis and high-frequency coils. Housed in handsome two-tone maroon and gray hammerloid case. Size, 7 1/4 x 5 1/2 x 4 1/4". Rubber grommet pads on case prevent scratching highly polished surfaces. Has antenna inputs for 150 to 300 ohm twin lead transmission lines. Built-in on-off relay for all 10, 120 volt AC television receivers drawing from 100 to 500 watts. Complete with four 6J6 tubes and selenium rectifier. Detailed operating instructions included. For operation from 105-125 volts, 60 cycle AC. Shpg. wt., 5 lbs.

circuit that distributes extra gain uniformly throughout each channel without limiting peaks. Improves picture quality—cleans up noise and "snow" patterns. Permits good reception from an indoor antenna in normal service areas where outdoor antennas are not permitted. Completely isolates local oscillator of receiver, thus effectively eliminating re-radiation which causes interference to other TV sets. Easy to install—booster can be concealed behind TV receiver or located in convenient position remote from receiver. Has bracket for secure mounting anywhere. Well ventilated and insulated. Silver-plated RF chassis and high-frequency coils. Housed in handsome two-tone maroon and gray hammerloid case. Size, 7 1/4 x 5 1/2 x 4 1/4". Rubber grommet pads on case prevent scratching highly polished surfaces. Has antenna inputs for 150 to 300 ohm twin lead transmission lines. Built-in on-off relay for all 10, 120 volt AC television receivers drawing from 100 to 500 watts. Complete with four 6J6 tubes and selenium rectifier. Detailed operating instructions included. For operation from 105-125 volts, 60 cycle AC. Shpg. wt., 5 lbs.

- 97-235. List, \$44.50. NET..... 26.17

ASTATIC "CHANNEL CHIEF" TV BOOSTER



Model AT-1. A 2-stage television booster so sensitive it provides good reception in areas formerly considered unsatisfactory. The Astatic "Channel Chief" booster effectively extends the "fringe" area as much as twenty miles in many cases. Supplies as much gain as two ordinary boosters—and on all 12 channels. Has two tuned and two broadband circuits on all 12 channels. Separate tuning controls for picture and sound make tuning easier—eliminate sacrificing picture definition to obtain best sound, or vice versa. In this way, if one signal is weak and the other adequate, both controls can be adjusted to make the weaker signal stronger. Variable gain control allows use of the exact amount of gain needed at any given time for best picture contrast or best sound. With this unit, good reception can be obtained from indoor antennas in normal service areas. High signal-to-noise ratio—minimizes, or eliminates altogether, man-made interference. Recessed pilot light indicates when booster is on. Uses four 6AK5 high-gain amplifier tubes—two in the high band and two in the low. For 300 and 72-ohm lines. Copper-plated chassis and all metal parts completely enclosed and insulated. In handsome dark mahogany cabinet, 8 1/2 x 6 1/2 x 7 1/4". Has self-contained power supply. For 110-120 volts, 60 cycles. Full instructions supplied. Shpg. wt., 6 lbs.

- 97-873. List, \$49.50. NET..... 29.10
- Model AT-1B. As above, but in blonde hardwood cabinet. 97-245. List, \$51.50. NET..... 30.28

Model TVB-2



NATIONAL TV BOOSTER

This new booster features a highly efficient turret tuner with an individually tuned set of coils for each channel. Provides all the advantages of turret tuning—exceptionally high gain and uniform bandwidth on all channels. Uses single 6AK5 tube to achieve maximum gain on all channels. In addition, it reduces adjacent channel interference and decreases "snow". Where outdoor antennas cannot be installed, this booster and an ordinary indoor antenna will give adequate results. Has built-in power transformer isolated from chassis. Also has fine tuning control for perfect picture and tone quality. Easy to tune—recessed pilot light illuminates selected channel. Brass and plastic tuning knob. Housed in a modern metal cabinet finished in wear-resistant mahogany enamel. Size, 6 1/2 x 4 1/2 x 5 1/2". Complete with 6AK5 amplifier tube and selenium rectifier. For 105-125 volts, 50-60 cycles. Shpg. wt., 7 lbs.

- 97-237. List, \$39.95. NET..... 23.95



Model BB-1

BOGEN TV BOOSTER

Latest all-channel television booster by Bogen, famous for its line of low-cost high-fidelity equipment. One control tunes continuously from channels 2 to 13. Incorporates an automatic power switch which turns booster on and off with television set. Has convenient "stand-by" feature for reception of local stations requiring no amplification; "off" position cuts off booster and connects TV set directly to antenna, yet keeps booster warmed up and ready for instant tuning. Push-pull triode amplifiers use two 6J6's to provide high gain with broad bandwidth and excellent signal-to-noise ratio. For 75-ohm coax or 300-ohm twin lead. In handsome mahogany hammer-tone metal cabinet with tan and ivory trim. Size, 7 x 4 1/2 x 4 1/4". For use with sets drawing between 150 and 500 watts. With 2—6J6 tubes and selenium rectifier. Complete instructions supplied. For 105-125 volts, 60 cycles AC. Shpg. wt., 4 lbs.

- 97-248. List, \$29.95. NET..... 17.61

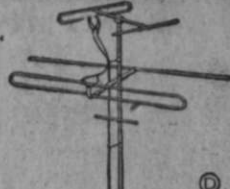
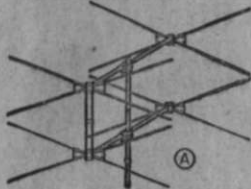
SOLA CVA TRANSFORMERS

Specially designed to reduce distortion and flicker in television screens due to variations in line voltages. Regulate voltage within 3%, despite line variations up to 30%. Provide better reception by enabling receiver to operate at the voltage for which it was designed. In addition, these units also insure longer life for TV receivers by protecting costly components against voltage surges. No extra switches to operate. Transformer turns off automatically when set is off. Easy to install—just plug in. For 95-130 volts, 50-60 cycles AC.

- Type CVA-7202. For 10" to 16" sets with power consumption from 175-300 VA. Size, 9 1/4 x 4 1/2 x 7 1/4". Shpg. wt., 26 lbs. 62-667. NET..... 30.00
- Type CVA-7201. For 7" and 10" sets with power consumption from 110-180 VA. Size, 8 1/4 x 4 1/2 x 7 1/4". Shpg. wt., 19 lbs. 62-668. NET..... 27.60

Television Antennas

KNIGHT HIGH-QUALITY TV ANTENNAS



"X" TYPE HIGH-GAIN ANTENNAS

"X" type driven elements and reflectors provide high front-to-back ratio, with conical pattern. Excellent impedance stability and high gain over a wide frequency range. Assure strong signals on all TV channels and FM. All elements made of strong aluminum tubing. Hardware is supplied attached to proper elements. Easy to set up and install with pliers and a screwdriver. Supplied less mast and 300-ohm twin line feeder. Select the number of mast sections required from mast listing below. See page 24 for twin line.

STACKED "X" TYPE ANTENNA ARRAY—FIG. A

Two "X" type antennas, each with "X" reflectors, stacked for maximum gain. Ideal for TV fringe areas. Includes crossarm, all elements and hardware, and twin-lead jumper with bakelite take-off panel. Less mast. Shpg. wt., 6 lbs.

97-384. List, \$34.00. NET. 11.25

STACKING KIT. For stacking two 97-384 "X" type arrays (listed above). Consists of 4 stacking bars, brace for supporting array on mast, and bakelite terminal plate. With instructions. Shpg. wt., 1 1/4 lbs.

97-387. NET. 1.97

SINGLE "X" TYPE ANTENNA

Single "X" type antenna with "X" reflector. For strong signal areas. Complete with crossarm, all elements, hardware, and bakelite take-off panel. Less mast. (Not illustrated.) Shpg. wt., 3 lbs.

97-385. List, \$16.50. NET. 5.15

STACKING KIT. For stacking two 97-385 "X" type antennas (listed above). Consists of 2 stacking bars and bakelite terminal plate, plus instructions. Easy to set up. Shpg. wt., 8 oz.

97-389. NET. 81c

MAST SECTION. 1 1/4" diameter, 5 ft. section of heavy-wall aluminum. One end tapered, other end formed—for easy assembly of up to 3 sections. Shpg. wt., 2 lbs., 12 oz.

97-386. NET. 1.25

IN-LINE HIGH-GAIN ANTENNAS

Efficient in-line antennas at low cost. Produce strong, clear signals on all TV channels. All elements made of 1/2" diameter hard-drawn aluminum tubing. Sturdy and weatherproof—withstanding strong winds and icing. Easy to install—anyone can make the installation in a short time, using ordinary household tools. Supplied complete with all elements, corrosion-resistant, cadmium-plated hardware, and instructions. Less mast and 300-ohm twin lead. Select required number of mast sections from listing at left, below.

SINGLE IN-LINE ANTENNA—FIG. B

Consists of antenna elements for both high and low bands, and single reflector element. Low-band dipole serves as reflector for high-band antenna. Supplied with 1 1/4" aluminum crossarm and laminated bakelite terminal plate. Shpg. wt., 5 1/2 lbs.

97-346. List, \$14.75. NET. 5.25

STACKING KIT. For stacking 2 in-line antennas. Consists of 2 stacking bars and bakelite terminal plate. Shpg. wt., 8 oz.

97-388. NET. 78c

STACKED IN-LINE ANTENNA—FIG. C

Two in-line antennas, stacked for greater gain. Consists of 4 antenna elements, 2 reflectors, 2 crossarms, and hardware. With instructions. Shpg. wt., 9 1/4 lbs.

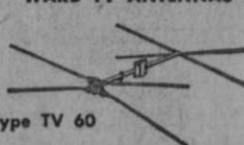
97-347. List, \$29.50. NET. 10.95

HI-LOW ANTENNA—FIG. D

An excellent, "piggy-back" style all-channel TV antenna. Each bay can be oriented individually for best reception. Ideal for locations where high-band stations are in a direction different from the low-band stations. Very simple to assemble and install. Has 1" and 1 1/4" aluminum cross-arms; 1/2" diameter aluminum dipoles and reflector elements. "U" bolts for attaching to mast are plated steel. Terminal plates are laminated bakelite. Supplied less mast. Select required number of mast-sections from listing at left. Shpg. wt., 4 1/2 lbs.

97-348. List, \$14.75. NET. 5.95

WARD TV ANTENNAS

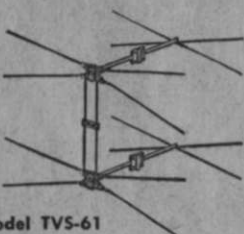


Type TV 60

SINGLE CONICAL ANTENNA

Single bay conical-type antenna. Has unusually fine impedance matching characteristics, resulting in excellent gain on all twelve television channels and FM. "Minute-Man" construction reduces assembly time—all elements pre-assembled, almost ready for installation. Complete with tubular aluminum antenna, reflector elements, cross-arm, and cadmium-plated cross-arm brackets. Less mast and twin-lead 300-ohm line. Requires 1 1/4" O.D. mast (see above). Shpg. wt., 5 1/2 lbs.

97-392. List, \$10.95. NET. 6.44



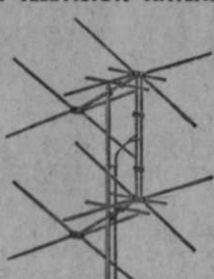
Model TVS-61

STACKED CONICAL ARRAY

Two-bay conical-type stacked array. Excellent impedance matching characteristics provide optimum reception on all twelve television channels and FM. Low-loss insulators. "Minute-Man" pre-assembling cuts installation time to a minimum. Complete with tubular aluminum antenna and reflector elements, Permatube steel cross-arms, and cadmium-plated steel cross-arm brackets. Less mast and twin lead. Requires 1 1/4" O.D. mast (see above). Shpg. wt., 10 1/2 lbs.

97-393. List, \$23.00. NET. 13.52

ICA TELEVISION ANTENNAS



Type 6481

ICA STACKED "BI-CON" ANTENNA

ICA's stacked "Bi-Con" TV antenna array for improved "fringe area" reception. Consists of a broadband conical beam array—plus a stacked high-band dipole array with reflectors. Provides high forward gain and directivity on all channels—especially the high band, which is critical in fringe areas. Stable impedance over entire range for minimizing of "ghosts." Weather-resistant all-aluminum construction. Easy installation—packed pre-assembled. Just unfold—and tighten the bolts! Complete with all elements, phasing stub, bakelite clamps and hardware. Less mast and transmission line (see page 24 for twin lead and coax cable listings). Shpg. wt., 6 lbs.

97-482. List, \$29.50. NET. 16.55

10-FOOT MAST. 1 1/4" diameter mast for antenna above. Heavy-wall steel tubing. Shipping weight, 5 lbs.

97-138. NET. 1.65

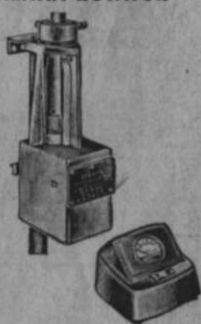
SINGLE "BI-CON" ANTENNA

Type 6472. New single-bay, all-channel antenna. Has separate high- and low-band elements for maximum efficiency, stable impedance and minimum ghosts. For 75, 150 or 300-ohm transmission line. Made of heavy-duty, weather-resistant 1/2" aluminum tubing; bakelite insulation. Easy to install. Supplied complete—less only mast (see above) and transmission line (see page 24). Shpg. wt., 3 lbs.

97-483. List, \$13.50. NET. 7.70

CROWN ANTENNA ROTATOR

For quick, remote-control positioning of TV, FM or VHF antennas weighing up to 175 pounds. Provides 360-degree rotation. Entire weight of antenna and mast rests on radial end thrust ball bearings. Hardened steel shaft and cut gears for long life. Electrical brake stops antenna instantly—prevents line twist. Drive mechanism is mounted in cast aluminum weather-sealed housing—nothing to rust. Remote-control unit features unique finger-tip switch. Touching either end rotates antenna; touching the center gives antenna position without rotating antenna. Illuminated dial is marked in points of the compass and 0-25. Unit is light enough to mount on top of mast, and strong enough to mount at ground level to rotate mast holding antenna at roof level. Factory-lubricated for life. Antenna mast is easily mounted—only one set of adjusting screws. For masts up to 1 1/4". Less mounting post and cable. For 110-120 volt, 60 cycle AC operation. Shpg. wt., 20 lbs.



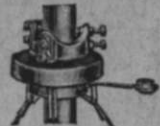
97-462. List, \$39.50. NET. 38.88

5-Conductor Cable. Molded, twin-lead style solid dielectric cable. Weatherproof.

47-585. Per foot. 3 1/2c
100 feet for. 3.15

CROWN ROLLER BEARING GUY RING

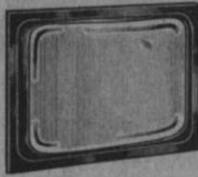
Permits rotation of mast manually or by rotator—without affecting guy wires. Corrosion-resistant. Roller bearings assure smooth rotation. Supplied complete with standoff insulator, guy wire thimbles, and nuts. Shpg. wt., 2 lbs.



97-468. List, \$5.95. NET. 3.50

Antennas and Accessories

PLASTIC SAFETY MASK FOR 16" RECTANGULAR TV TUBE



Solid 1/8" thickness plastic safety mask for 16" rectangular TV picture tube. Unbreakable—prevents tube breakage and guards against "implosion" and shattering. Crystal clear for perfect tele-viewing. Handsome appearance, beige metal lustré finish border. Measures 12 1/2" wide by 16" high. Easy to install—fits most 16" sets. Shpg. wt., 1 1/4 lbs.

97-920. List, \$15.30. NET.....9.00

KNIGHT TWIN LEAD



High quality 300 ohm television and FM transmission line at low cost. Has uniform impedance throughout. Durable brown, low-loss polyethylene insulation. Save on the amazingly low 100-ft. price—order a large supply now! Shipping weight per 10 ft., 1/2 lb.; per 100 ft., 2 lbs.

49-499. Per Ft., 2c. 100 ft. for.....1.20

DRIVE-IN INSULATORS



Universal TV transmission line standoff insulators. Consist of a saw-tooth dural nail and a fold-over strip of low-loss polyethylene. Require no drilling, can be hammered into any surface—brick wall, pipe, wood, stone, etc. Will remain securely in position. Polyethylene strip takes either twin-line or coaxial

cable. 2 1/4" long. Wt., 1/2 oz. 71-789. NET EACH.....3 1/2c 10 for.....33c 100 for.....2.37

ALUMINUM GROUND WIRE



Easily worked, solid aluminum ground wire. B&S No. 8 gauge. For general purpose heavy duty grounding applications in TV, Amateur, and other antenna installations.

Shpg. wt. per 100 ft., 2 1/2 lbs. 49-650. 100 Ft. Coil. NET.....1.30 49-651. 500 Ft. Coil. NET.....6.37 49-652. 1000 Ft. Coil. NET.....12.25

PREMAX GROUND ROD

Copper-plated steel rod. Establishes direct-to-earth ground. Ground lead connector has 1/2" bolt. Size, 4"x1/2". Shpg. wt., 2 1/2 lbs. 97-418. NET EACH.....47c

CLETRON LIGHTNING ARRESTER



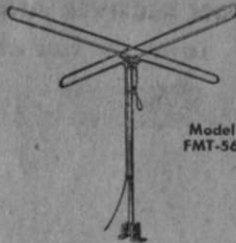
Utilizes the bleeder and gap principles of static charge elimination. Does not disturb impedance or signal conveying capabilities of transmission line. Helps keep antenna structures at ground potential. Twin lead clamps in place—no cutting or stripping. Mounts on any flat surface. Low-loss polystyrene. U.L. Approved. Shpg. wt., 13 oz.

51-244. List, \$2.00. NET.....1.18

AMPHENOL LIGHTNING ARRESTER



TV-FM type. Spark gap gives lightning protection and shunt resistors drain off static voltage. No stripping of twin-lead required—connections are made by lug-mounted teeth at screw terminals. For use with 300-ohm grounding lug. Thoroughly moisture proofed. Size, 1 1/2"x1 1/4"x3/4". U.L. Approved. Wt., 5 oz. 51-245. Type 155-338. List, \$1.40. NET.....82c



Model FMT-56

WARD TURNSTILE FM ANTENNA

Folded dipole FM antenna providing strong, clear reception. All-directional properties result from turnstile-positioned dipoles with elements 90° apart electrically. Nearly complete factory pre-assembly makes installation simple. All-angle, self-supporting base eliminates guywires. Aluminum construction. Consists of turnstile elements with phasing loop, 2 bakelite insulators supporting base, 5-foot mast, 60 feet of 300-ohm Twin Lead, 4 rubber standoff pads for loop and 6 standoff insulators for line. Shpg. wt., 8 lbs.

97-326. List, \$18.50. NET.....10.88

AMPHENOL ANTENNA ACCESSORIES



TWIN-LEAD INSULATOR—FIG. A

Low-loss polystyrene. Grips 300 ohm twin-lead firmly. Shpg. wt., 3 oz. 71-761. Type 66-909. EACH.....5c 100 for.....4.50

STAND-OFF INSULATORS—FIGS. B & C

3 1/2" wood screw type. Mount easily and quickly in any angle in wood. Low-loss polyethylene inserts hold line firmly. Shpg. wt., 4 oz.

71-756. Fig. B. Type 66-202. For twin-lead. EACH 3 1/2c.....100 for 3.18 71-755. Fig. C. Type 66-201. For coax cable. EACH 4c.....100 for 3.68

7 1/2" wood screw type. As above but use 7 1/2" wood screw for mounting. Shpg. wt., 7 oz. 71-762. Fig. B. Type 66-209. For twin-lead. EACH 5c.....100 for 4.73 71-705. Fig. C. Type 66-208. For coax cable. EACH 5 1/2c.....100 for 5.38

3 1/2" machine screw type. As above but have 10-32 machine screw and nut. Shpg. wt., 4 oz. 71-703. Fig. B. Type 66-204. For twin-lead. EACH 4 1/2c.....100 for 4.09 71-704. Fig. C Type 66-203. For coax cable. EACH 4 1/2c.....100 for 4.32

RECEIVING TWIN-LEAD

For FM, television and ham antennas. Stranded-copper leads, polyethylene dielectric. Weather-proof. *No. 16 Copperweld conductors. Shpg. wt., 10 ft., 1/2 lb.

No.	Type	Ohms	Per Ft.	100 Ft.
49-440	14-056	300	2c	1.76
49-438	14-079	150	2c	1.38
49-445	14-080	75	2c	1.29
49-442	*14-022	300	5c	4.09

Type 14-271. Tubular 300 ohm twin-lead. For deluxe FM and TV installation. Longer dielectric path for less impedance variation. Shpg. wt., 10 ft., 1/2 lb. 49-444. NET PER FOOT.....4 1/2c 100 feet for.....3.56

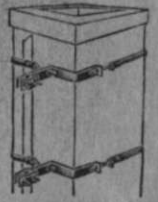
AMPHENOL ANTENNA MATCHING TRANSFORMER

Connects in series with TV lead-in—matches 300-ohm line to low-impedance 50-72 ohm receiver input. Quarter wave stub type. Made of 4-conductor polyethylene ribbon. Spade lug terminals. 38" long. Easy to install. Shpg. wt., 2 oz. 71-793. Type 114-313. NET.....47c

MODERNAIRE ANTENNA MOUNTS

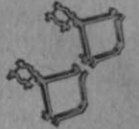
Modern TVB-100 Chimney Mount

For mounting TV-FM antennas on chimneys or any other column-like support up to 12" circumference. Consists of 2 brackets with adjustable clamps to hold 1/4" to 1 1/4" O.D. antenna masts. Provides 3 1/2" cornice clearance. Brackets are attached rigidly and securely to chimney with steel straps and turnbuckles. Heavy zinc plating resists rust. With 2 brackets, 24 feet of steel strap, turnbuckles and hardware. Shpg. wt., 2 1/2 lbs. 97-349. List, \$2.25. NET, PER SET.....1.32 10 for.....11.88



VENT PIPE MOUNTS

New antenna brackets designed for fast and simple installation on vent pipes or poles 4 ins. or 6 ins. in diameter. Accommodate any size mast. Consist of two separate brackets which may be spaced as far apart as desired for maximum antenna rigidity. Made of extra heavy gauge steel, zinc-plated to prevent rusting. Complete with two brackets and all necessary hardware. Shpg. wt., 2 lbs.



Type TVB-109-4. For 4" pipe. 97-362. List, \$3.95. NET PER SET 2.32 Type TVB-109-6. For 6" pipe. 97-363. List, \$3.95. NET PER SET 2.32

WALL BRACKETS

Wall-mounting brackets for all size masts. Designed to mount on any type of wall. Can be used to clear overhanging roofs—brackets are available in sizes to hold the mast from 6" to 18" away from the wall. Easy to install. Set consists of two heavy gauge steel brackets with heavy tubular brace for maximum strength and rigidity, except type TVB-6, which is less brace. Zinc-plated to prevent rusting. Have 5 holes for 1/4" screws. Complete with all hardware.



Type TVB-6. For 6" clearance. 1 1/2 lbs. 97-364. List, \$2.25. NET PER SET. 1.32 Type TVB-108. For 8" clearance. 2 1/2 lbs. 97-375. List, \$4.25. NET PER SET 2.50 Type TVB-112. For 12" clearance. 4 lbs. 97-376. List, \$4.95. NET PER SET 2.91 Type TVB-118. For 18" clearance. 5 lbs. 97-377. List, \$5.95. NET PER SET 3.50

ALPRODCO ALUMINUM TOWERS

Lightweight, easy-to-install antenna towers of spring-tempered aircraft aluminum alloy. 6-foot sections permit installation of TV antennas as high as 120 feet—thus greatly increasing the range of reception. Ideal for fringe area use and for interference-free reception of local stations. Extremely lightweight—only 1 pound per foot. 120 ft. maximum-height tower will withstand 200-pound toploading in 100 mph wind. Tower may be grounded for lightning protection. Supplied knocked-down—ready to assemble with Phillips-head aircraft bolts and self-locking nuts. Require guying every 30 feet. For guy wire see page 141 of ALLIED Catalog No. 120.



Model T-6. 6-Foot Tower Section. Knocked-down 6-ft. section. With bolts. Shpg. wt., 8 lbs. 97-378. NET.....6.91

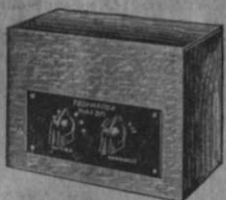
Model MK-1. Standard Mast Kit. Consists of top angle trim and adjustable universal brackets for attaching standard-sized antenna masts to tower. Shpg. wt., 2 1/2 lbs. 97-379. NET.....1.80

Model B-1. Hinged Aluminum Base Plate. Versatile base mounting, adaptable to vertical, horizontal, or sloping surfaces. Simplifies installation. Shpg. wt., 1 1/2 lbs. 97-380. NET.....2.10

Model GB-1. Guying Bracket. Bracket for attaching guy wire to tower (3 required per guying station). Shpg. wt., 4 oz. 97-381. NET EACH.....7c

TV and Radio Receiver Kits

TECH-MASTER TELEVISION RECEIVER AND ACCESSORY KITS



TELEVISION BOOSTER KIT

This excellent kit, when properly wired, will improve reception on all 12 channels in low-signal, low-terrain and "fringe" areas. Reduces noise 5 to 30 db. Has fixed grid, variable plate tuning and separate coils for low and high channels. For 300- or 72-ohm line. With 6AK5, pre-aligned coils, all components, stamped chassis, walnut cabinet, 6 1/2 x 5 x 1 1/2". For 110-120 v., 60 cyc. AC. With complete instructions. Shpg. wt., 4 1/2 lbs.

83-088. NET. 9.95

KEYED AGC KIT

New television engineering feature in kit form—for easy installation on 630 type chassis. Eliminates annoying airplane "flutter" and "breathing." Keyed to sync pulse for instantaneous AGC. Complete with 6AU6 tube, mounting bracket and socket, special AGC coil, all parts, and complete instructions. Shpg. wt., 8 oz.

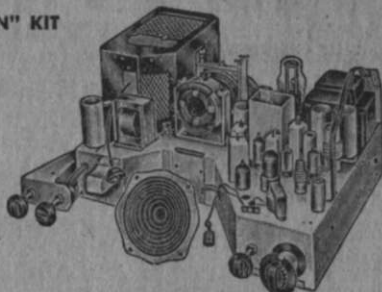
83-086. NET. 4.45

DELUXE HI-SWEEP CONVERSION KIT

Voltage multiplier kit for conversion of all 630-type 10" TV chassis to use of 15", 16", or 19" picture tubes. Provides up to 14 KV with full sweep, using only one 1B3 tube. Easy to install. Complete with all necessary parts, and instructions. Wt., 4 1/2 lbs.

83-087. NET. 9.45

LOW-COST "BLUE RIBBON" KIT



PRECISION-ENGINEERED CIRCUIT FOR 12 1/2" PICTURE TUBE

Tech-Master's famous "Blue-Ribbon" television kit features an up-to-the-minute circuit that will provide picture performance comparable to the best in television—yet costs much less than finished sets of equal quality. Precision engineered to be amazingly easy to build. To simplify assembly, all parts are mounted on the chassis—need only to be wired. Easy to build—any beginner can wire the complete kit and have it ready to perform within a weekend. No technical knowledge is needed—carefully planned, step-by-step instructions

make it easy to achieve excellent results. Pictorial diagrams guide each wiring step. No special tools are required. The Tech-Master "Blue-Ribbon" kit is ideal for use as a training kit for radio and television schools. Conventional engineering design gives the student experience and familiarity with details of circuits and mechanical construction to be encountered in servicing many popular television receivers. Economical, easy to build, and a fine performer, this is one of the best television receiver values available today.

Includes AGC and Video-Lock Circuits

An important feature of this kit is a Keyed Automatic Gain Control circuit which eliminates annoying airplane "flutter" and "breathing" by compensating automatically and instantaneously for variations in sync pulse. Contrast and brilliance control circuits virtually eliminate the adjustment once set. Latest "Video-Lock" circuit uses a phase discriminator to keep pictures in perfect sync under conditions of weakest signal input. Four stages of video IF provide full 4 mc band width for excellent picture detail. Three stages of sound IF plus high quality discriminator using latest 9-pin miniature tubes assure excellent sound.

Finest Components Used Throughout

All tubes and most of the major components furnished are made by R.C.A. Also includes latest type all-channel front-end turret tuner completely wired, tested and aligned with matched tubes in place. Kit is complete with all parts, including pre-cut, drilled chassis with all major components mounted, coil, transformers, condensers, resistors, controls, knobs, wire, 20 tubes and 2 rectifiers, 5x7" oval PM speaker, schematic and step-by-step pictorial wiring diagrams. Less kinescope, cabinet, antenna and solder. For 105-125 volts, 60 cycles AC. Shpg. wt., 63 lbs.

83-085. NET. 119.95

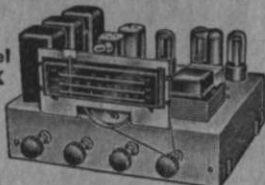
Accessories For Tech-Master "Blue-Ribbon" Kit

12 1/2" Picture Tube. Type 12LP4 picture tube. Made by R.C.A. White screen.
7-211. List, \$35.00. NET. 26.25

Mahogany Cabinet. Cut-outs for all panel controls. 25x20 1/2 x 19". Wt., 40 lbs.
98-978. NET. 47.50

MEISSNER RECEIVER KITS—AT LOWER PRICES

Model T6BK



3-BAND AC UNIVERSAL KIT

Thrilling 3-band reception, at a saving of over 18%! It's fun to build—and the completed 3-band receiver will give you many hours of satisfying enjoyment! Kit is easily assembled from the complete instructions supplied, including pictorial and schematic diagrams. Kit can be built from pictorial diagram alone. Covers 535 kc to 18 mc in 3 overlapping bands. Features 15-microvolt sensitivity on all bands, 3 watts maximum audio output—2 watts at 5% distortion. Has standard IF—455 kc. Professional features include large, edge-lighted slide-rule dial calibrated in megacycles on all 3 bands; sufficient power to drive any PM speaker. Controls: Bandswitch, On-Off-Volume, Tuning, and Tone Control (continuous). Chassis size, 12x10x3". Mounting space required: 12 1/2" wide, 7 1/4" high, and 1 1/2" deep. Uses: 2—6SK7, 1—6SA7, 1—6SQ7, 1—6V6GT, 5Y3GT rectifier. Supplied complete with punched and formed chassis, all tubes, parts and hardware. Less speaker (see Knight speaker below), wire, and solder. For 105-125 and 210-250 volts, 60 cycle AC. Shpg. wt., 10 lbs.

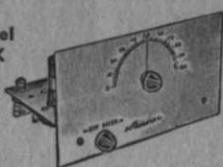
83-525. With tubes, less speaker. NOW ONLY. 32.19

KNIGHT 8" PM Speaker

Quality 5-watt PM dynamic speaker for use with above kit. Voice coil impedance, 3.2 ohms. Shpg. wt., 3 1/2 lbs.

81-633. NET. 2.80

Model T3BK



3-TUBE AC-DC TRAINER KIT

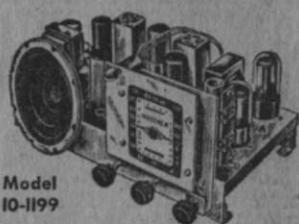
Here's a splendid kit that's so easy to assemble—anyone can build it—and get world-wide reception. The completed kit gives you a sensitive, regenerative-type AC-DC receiver that you'll be proud to say you built! Covers standard broadcast band, 520 to 1530 kc, with coil supplied. Provides real "DX" coverage with SW coils listed below. Airplane-type dial has 1 1/2" pointer, and is calibrated 0-100 over 180 degree arc. Circuit features regenerative grid-leak detector with resistance-coupled pentode audio stage. Uses 1—6B16 and 2—80B5. Controls: On-Off-Regeneration and Vernier Tuning. Size: 7 1/4 x 4 1/4 x 1 1/2" deep. Supplied complete with punched and formed chassis, tubes, all parts, hardware, and instructions. Less headphones (see below), wire, and solder. For 105-125 volts, 60 cycle AC or 105-125 volts DC. Shpg. wt., 2 1/2 lbs.

83-527. NOW ONLY. 8.80

ACCESSORIES

Extra plug-in coils, Shpg. wt., 3 oz. each.
83-528. 18-3500. 170-540 kc. **1.23**
83-530. 18-3502. 1.4-4.5 mc. **50c**
83-531. 18-3503. 3.2-8.2 mc. **50c**
83-532. 18-3504. 8-18 mc. **50c**
83-533. 18-3505. 15-34 mc. **50c**
59-110. American Bell 2000-ohm dual headset for above. Shpg. wt., 12 oz. **NET. 1.42**
83-100. Aerial kit. 1 1/2 lbs. **NET. 6.9c**

Model 10-1199



2 BAND AC-DC SUPERHET KIT

A low-cost two-band receiver with high sensitivity and selectivity. Covers standard broadcast band, 530 to 1650 kc and short-wave band, 5.7 to 18 mc. Untuned RF stage on both bands and peaking circuit for added short-wave sensitivity. Input for use with any single wire antenna. Uses combination on-off switch and volume control; 5" Alnico PM speaker; molded sections throughout. Automatic volume control minimizes fading and blasting. Tubes: 1—12SK7 RF amplifier, 1—12SA7 oscillator-converter, 1—12SK7 IF amplifier, 1—12SQ7 detector-AVC-first audio, 1—35L6GT beam power output. Has 1—35Z5GT rectifier. Complete step-by-step instructions make assembly and adjustment simple. Pictorial and schematic diagrams show where each part belongs. Kit includes punched chassis, tubes, hardware, and all parts. Less wire and solder. For 105-125 v., 50-60 cycles AC, or DC. Shpg. wt., 8 lbs.

83-455. With tubes, less cabinet. NOW ONLY. 21.31

"HOW TO BUILD" MANUAL. Available again—the famous Meissner kit builders' manual—revised and brought completely up to date. Covers everything from basic theory to TV circuits. Fully illustrated.

37-034. Postpaid in U.S.A. 1.00

Eico Test Instrument Kits

SAVE UP TO 50% BY BUILDING YOUR OWN TEST EQUIPMENT

An easy, low cost way for the radio serviceman, Amateur or experimenter to add to his workbench equipment. Building these dependable easy-to-afford kits assures a fuller understanding of test equipment, and results in more efficient trouble-shooting and testing.

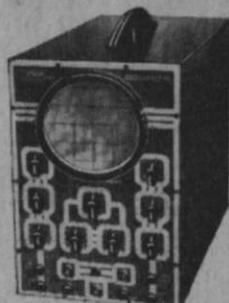
In addition to the schematic and pictorial diagrams and assembly instructions—each kit contains a manual of operating instructions. All have etched panels with blue background and contrasting multi-color markings for professional appearance and good readability.



VACUUM TUBE VOLTMETER

Model 221-K. An easy-to-build, sensitive VTVM for making measurements in high-resistance circuits. 15 ranges, with DC input resistance of 26 megohms. $4\frac{1}{2}$ " meter is protected against burnout. Includes zero center for alignment of FM and TV discriminators. Double-triode balanced bridge circuit for stability. Ranges: AC-DC volts, 0-5-10-100-500-1000; resistance, 0-1000 ohms and 0-1-10-100-1000 megohms; db, -20 to +16. With tubes, all parts, case, panel, wire, instructions, diagrams and operating manual. Less solder. Size: $6\frac{1}{2} \times 5\frac{1}{2}$ ". For 110-120 volts, 60 cycle AC. Shpg. wt., 10 lbs.

83-152. NET..... 23.95



5" OSCILLOSCOPE

Model 425-K. Oscilloscope designed for AM, FM and TV alignment. Push-pull deflection. Sensitivity .05 to 1 rms volt/inch. Range, 5 cps to 500 kc. Wide-range multivibrator sweep circuit 15-75,000 cps. Provision for ext. sync., Z-modulation and direct input to CR tube plates. Calibrating voltage terminal on panel. Graph screen. Uses: 3-6SN7, 2-6J5, 5BP1 CR tube, 2-5Y3GT. With tubes, portable case, etched panel, all parts and knobs, wire, complete assembly instructions, diagrams and operating manual. Less solder. $8\frac{1}{2} \times 17 \times 13\frac{1}{2}$ ". For 110-120 volts, 60 cycle AC. Shpg. wt., 30 lbs.

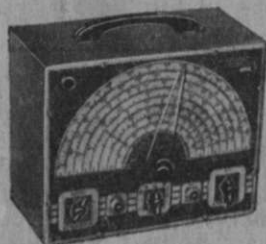
83-155. NET..... 39.95



SWEEP GENERATOR

Model 360-K. For visual alignment at TV and FM frequencies between 500 kc and 228 mc when used with any scope. Sweep width variable from 0-30 mc. Crystal marker oscillator with variable amplitude. Provision for injection of external marker. Phasing control. Large vernier tuning dial calibrated in frequencies. May be used with scope at left, or any standard scope. Uses 2-6C4's, 1-12AU7, 6X5GT rectifier. With tubes, all parts, shielded cable, portable case, panel, wire, instructions, and operating manual. Less crystal and solder. Size: $10 \times 8 \times 6\frac{1}{4}$ ". For 110-120 volts, 60 cycle AC. Wt., 12 lbs.

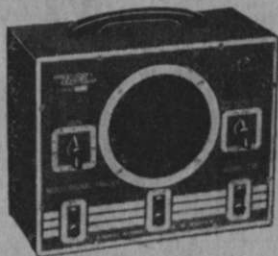
83-159. NET..... 29.95



SIGNAL GENERATOR

Model 320-K. An invaluable test unit for servicemen, experimenters, and kit builders. Well-designed circuit employs a stable Hartley oscillator. Covers 150 kc to 34 mc on fundamentals—to 102 mc on harmonics. Ideal for quick alignment of FM-AM receivers. Has choice of unmodulated or 400 cycle AM modulated output. RF section easily aligned with any standard broadcast receiver. Large dial is easy to read, and is calibrated in 7 bands. Supplied complete with tubes, portable case, etched panel, all parts, knobs, wire, shielded cable, instructions, diagrams, and operating manual. Less solder. Size: $10 \times 8 \times 4\frac{1}{4}$ ". For 110-120 volts, 60 cycle AC. Shpg. wt., 10 lbs.

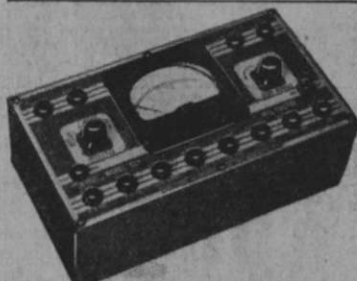
83-154. NET..... 19.95



MULTI-SIGNAL TRACER

Model 145-K. Valuable trouble-shooting aid. With this unit, you can actually trace the audio signal through the IF, RF and other stages of AM-FM receivers. Signal is heard in built-in 4" PM speaker. Front-panel jacks for use of a VTVM—for visual signal tracing and stage-by-stage gain comparison. Diode probe provided for picking up signal from any stage of receiver. Amplifier has sufficient gain to permit use as one-way call system in service shop or home. Uses 1-6SJ7, 1-6K6, 6X5 rectifier. Complete with tubes, all parts, case, etched panel, speaker, wire, instructions, diagrams and operating manual. Less solder. For 110-120 volts, 60 cycle AC. Size: $10 \times 8 \times 4\frac{1}{4}$ ". Shpg. wt., 9 lbs.

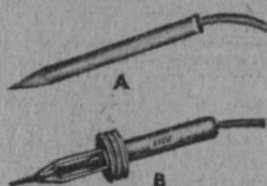
83-158. NET..... 18.95



VOLT-OHM-MILLIAMMETER

Model 511-K. The most-used unit on any service bench—a reliable, all-around VOM. Will pay for itself many times over. Pocket-size, compact, it is easily carried around for use anywhere. Exceptionally easy to build. Has easy-to-read 3" meter. Uses germanium crystal for AC. Ranges: DC volts, 0-5-50-250-500-2500; AC and output volts, 0-10-100-500-1000; DC current, 0-1-10-100 ma and 0-1-10 amps; resistance, 0-500-100,000 ohms and 0-1 megohm; decibels, -8 to +55. Complete with portable case, etched panel, all parts, wire, 3 batteries, instructions, diagrams and operating manual. Less test leads and solder. Overall size: $8 \times 4\frac{1}{2} \times 3\frac{1}{2}$ ". Shpg. wt., $3\frac{1}{2}$ lbs.

83-153. NET..... 14.95



EICO PROBE KITS—FIG. A

Model P-75K High-Frequency Probe Kit. Germanium crystal probe kit for 221-K vacuum-tube voltmeter. Measures RF to 200 megacycles. Size: $6\frac{1}{2}$ " long, $\frac{1}{8}$ " diameter. Shpg. wt., 1 lb.

83-156. NET..... 3.75

Model P-76K H-F Probe Kit. Germanium crystal probe kit. For visual signal tracing to 200 megs on 425-K oscilloscope. Easy to assemble. Size: $6\frac{1}{2}$ " long, $\frac{1}{8}$ " diameter. Shpg. wt., 1 lb.

83-157. NET..... 3.75

HIGH-VOLTAGE PROBE—FIG. B

Model HVP-1. Ready-to-use high-voltage probe for adapting Model 221-K VTVM to read up to 30,000 volts. Uses ceramic resistor. Features Lucite head, with high-dielectric, low leakage path. Insulated handle is absolutely safe for high voltage use. A valuable addition to your test equipment at very low cost! Overall length, 10". Maximum diameter, 2". Shpg. wt., $1\frac{1}{2}$ lbs.

83-160. NET..... 6.95

Batteries and Accessories

RCA PORTABLE RADIO BATTERIES

Manufactured to exacting standards from finest materials. Here the top quality of famous RCA products means economy of operation and extra listening hours. Designed to replace most batteries in use today. Due to rapid turn-over, ALLIED'S stock of RCA batteries is always fresh, assuring you of full-rated efficient service. VS036 is a

sealed-in-steel unit; VS040 and VS006S are lantern batteries. VS028 and VS029 are farm-type batteries. *Has seven voltages (3-4 1/2-6-9-10 1/2-16 1/2-22 1/2); thus five voltages (1 1/2-3-4 1/2-6-7 1/2) and includes a pitgall lead in addition to its five screw terminals. All batteries are rightly inspected to insure uniform high quality.

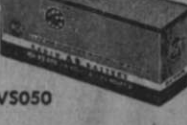
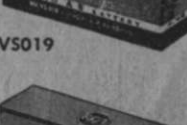
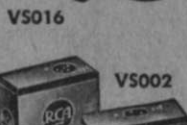
Stock No.	RCA Type	Std. Pkg.	List Price	NET EACH		Volts	Size	Shpg. Wt. Lbs.	Interchangeable With	
				Single Lots	Std. Pkg.				Burgess	Eveready
80-903	VS036	8	\$0.10	.07	.06 1/2	1 1/2	1 1/2 x 2 1/4 x 3/4"	2 lbs. per pkg.	2R	
80-901	VS004	6	.95	.75	.68	1 1/2	2 1/2 x 2 1/2 x 4 1/2"	1 1/2	4F	742
80-900	VS002	6	.75	.73	.67	4 1/2	4 1/2 x 3 1/2 x 1 1/2"	1 1/2	G3	746
80-902	VS009	6	.95	.73	.67	6	2 1/2 x 2 1/2 x 4 1/2"	1 1/2	F4P1	744

PORTABLE "B" BATTERIES											
Stock No.	RCA Type	Std. Pkg.	List Price	NET EACH		Volts	Size	Shpg. Wt. Lbs.	Interchangeable With	Burgess	Eveready
				Single Lots	Std. Pkg.						
80-905	VS012	6	2.35	1.81	1.65	45	4 1/2 x 2 1/2 x 5 1/2"	2 1/2	B30	762	
80-906	VS013	12	2.00	1.54	1.40	45	3 1/2 x 1 1/2 x 5 1/2"	2 1/4	M30	482	
80-907	VS014	6	2.15	1.65	1.50	45	3 1/2 x 2 1/2 x 4 3/4"	1 1/2	A30	742	
80-908	VS015	10	2.50	1.75	1.75	45	3 1/2 x 1 1/2 x 4 3/4"	1 1/2	Z30	738	
80-909	VS016	12	2.65	1.28	1.16	45	2 1/2 x 2 1/2 x 3 1/2"	3/4	XX30	455	
80-909	VS016	12	2.25	1.74	1.58	67 1/2	2 1/2 x 1 1/2 x 3 3/4"	1	XX45	467	

PORTABLE "AB" BATTERIES											
Stock No.	RCA Type	Std. Pkg.	List Price	NET EACH		Volts	Size	Shpg. Wt. Lbs.	Interchangeable With	Burgess	Eveready
				Single Lots	Std. Pkg.						
80-922	VS052	5	3.95	3.25	2.95	1 1/2-61 1/2	9 1/2 x 2 1/2 x 3 3/8"	4 1/4	4GA41 Philco 41A4G		
80-923	VS053	5	3.95	3.25	2.95	1 1/2-63	9 1/4 x 2 x 4 1/4"	4 1/2	4GA42 Philco 41A4FL Zenith 42A-4G		
80-925	VS037	5	4.95	3.80	3.45	1 1/2-90	11 7/8 x 1 1/2 x 6 7/8"	5 1/2	6FA60		
80-918	VS043	5	4.95	3.80	3.45	1 1/2-90	5 1/2 x 2 1/2 x 7 1/8"	5 1/2	5DA60		
80-927	VS054	5	5.50	4.24	3.85	1 1/2-90	10 x 2 1/2 x 4 1/2"	6 1/4	6TA60 Ray-O-Vac AB64		
80-921	VS050	6	4.50	3.47	3.15	6-7 1/2-75	8 3/4 x 2 1/2 x 3 1/2"	4	T5250 G4B50		
80-919	VS046	6	4.95	3.80	3.45	6-75	12 3/4 x 2 1/4 x 4 1/4"	6 1/2	Zenith 2675 F4B60		
80-926	VS048	5	4.95	3.80	3.45	6-90	10 1/4 x 2 1/4 x 5"	7	Zenith 2659		
80-915	VS018	6	5.50	4.24	3.85	7 1/2-9-90	10 1/2 x 3 3/8 x 4 1/2"	7 1/2	G6M60	754	
80-916	VS019	6	4.95	3.80	3.45	7 1/2-9-90	9 1/2 x 2 1/2 x 4 1/2"	6	F6A60	753	
80-924	VS057	6	5.50	4.24	3.85	7 1/2-9-90	9 1/4 x 2 1/2 x 3 3/4"	4 1/2	T5260 Philco P361		
80-917	VS038	5	4.20	3.25	2.95	7 1/2-63	8 3/4 x 2 1/4 x 4 1/2"	4 1/2	G5A42		
80-920	VS047	6	5.50	4.24	3.85	9-90	13 1/2 x 2 1/4 x 4 1/2"	8 1/4	G6B60 Zenith 2985		
80-930	VS022	1	5.95	4.46	4.16	1 1/2-90	15 1/4 x 4 1/4 x 6 7/8"	21 1/4	17GD60	759	

FLASHLIGHT BATTERIES											
Stock No.	RCA Type	Std. Pkg.	List Price	NET EACH		Volts	Size	Shpg. Wt. Lbs.	Interchangeable With	Burgess	Eveready
				Single Lots	Std. Pkg.						
80-945	VS001	48	.10	.07	.06 1/2	1 1/2	1 1/2 x 2 1/2 x 3/8"	1/4		2	950
80-946	VS033	100	.10	.07	.06 1/2	1 1/2	1 1/2 x 1 1/8 x 1 1/8"	1/8		1	935
80-947	VS034	24	.07 1/2	.05 1/2	.05	1 1/2	1 1/2 x 2"	1/8		Z	915

INDUSTRIAL BATTERIES											
Stock No.	RCA Type	Std. Pkg.	List Price	NET EACH		Volts	Size	Shpg. Wt. Lbs.	Interchangeable With	Burgess	Eveready
				Single Lots	Std. Pkg.						
80-957	VS106	10	.70	.51	.46	1 1/2	2 1/2 x 2 1/2 x 4 1/2"	1 1/2	4FH		
80-941	VS006S	6	.70	.51	.46	1 1/2	2 1/2 x 2 1/2 x 3 3/8"	1 1/2	2370BP	6	71T
80-959	VS130	10	.81	.62	.57	1 1/2-3-4 1/2	4 1/2 x 1 1/2 x 3 1/2"	1 1/2	5540		773
80-939	VS029	10	.95	.74	.69	1 1/2-7 1/2	3 1/2 x 2 1/2 x 3 1/2"	3/4	5156SC		778
80-960	VS131*	5	1.80	1.39	1.30	3-22 1/2	4 1/2 x 2 1/2 x 3 1/2"	2	5360		781
80-937	VS028	10	.50	.39	.35	4 1/2	2 1/2 x 1 1/2 x 2 1/2"	1 1/2			
80-950	VS040	10	.80	.56	.51	6	2 1/2 x 2 1/2 x 4 1/2"	2 1/2	F4H		409
80-951	VS102	10	1.80	1.39	1.26	22 1/2	3 3/4 x 2 1/2 x 2 1/2"	1 1/4	4156		763
80-952	VS112	5	2.15	1.65	1.50	22 1/2-45	4 1/2 x 2 1/2 x 5 1/2"	3 1/2	5308		762S

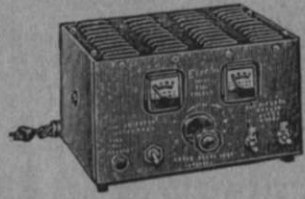


Model 752

STANCOR MASTER PACK

Designed for use wherever a continuous DC output of 6 volts at 12.5 amps is required. Intermittent output rating is 25 amps DC. Ideal for demonstrating and testing auto radios with push-button or floor switch magnetic tuning. Extra power permits simultaneous operation of two or more receivers. Excellent DC source for testing all types of auto accessories, charging storage batteries and for operating relays and solenoids, laboratory apparatus, electroplating, etc. Adjustable voltage control—7 position tap switch provides proper output voltages for various loads. Separate voltmeter and ammeter provide continuous visual check of voltage and current. Uses selenium rectifier and well-filtered condenser-choke network. Has excellent voltage regulation and less than 3% output ripple. Heavy-duty components; high overload capacity with line fuse to protect against excessive overloading; low internal resistance. For 110-120 volts, 50-60 cycles AC. Steel case, finished in attractive gray Hammerloid—9 1/2" high, 7 3/4" wide and 12" deep overall. Shpg. wt., 30 lbs.

80-154. NET.....43.90



ELECTRO MODEL B BATTERY ELIMINATOR

For servicing, industrial and laboratory use. Provides a heavy current, 6-volt DC source for testing auto radio receivers or any other type of equipment requiring from 3 to 9 volts DC. Furnishes ample power for test-bench operation of two auto radios with push-button solenoids. Also serves as a heavy-duty regular power supply for operation of DC equipment. Six-volt DC output is delivered continuously from 1 to 20 amps. Has an intermittent rating to 35 amps. Built-in 0-10 voltmeter and 0-20 ammeter assure proper operating values for equipment under test. An 8-position tap switch selects output voltages in one-volt steps. Heavy steel with ventilating louvers in top. Finished in blue Hammerloid. Measures 12x7x8 1/4". Operates from 115 volts, 50-60 cycles, with 250 watts line drain. With data sheet. Shipping weight, 35 lbs.

80-206. List, \$72.50, NET.....42.63

BURGESS GEIGER COUNTER 300 V. BATTERY

Type U200. Designed for instruments requiring high voltage at low current consumption, such as Geiger counters and other radio-activity devices, insulation testers, gas-discharge photoflash units, etc. Size, 2 1/2 x 2 1/2 x 3 1/2". Uses two 41-405 plugs at 12c each. Net weight, 1 lb. Shipping weight, 2 lbs.

80-626. List, \$11.40, NET.....7.85

EVEREADY No. 6 DRY CELL

Standard No. 6 dry cell. Output, 1 1/2 volts. For industrial use, battery-operated ignition systems, farm lanterns, etc. Size, 6x2 1/2" diameter. Screw terminals. Shpg. wt., 2 lbs. 80-767. List, 70c. NET EACH.....51c Lots of 12, Each.....46c



SEE CATALOG 120

For complete listings of batteries, battery plugs and A and B eliminators, see pages 130-134 of ALLIED Catalog No. 120.



Auto Antennas and Vibrators

MALLORY REPLACEMENT VIBRATORS

There's a Mallory Vibrator For Every Need



These precision units provide lowest cost-per-hour of actual use. Springs are of high-grade clock-spring steel; held in permanent alignment by rugged frame. 105 strand lead wire defies vibration—connections stay intact. Sponge rubber silencer enclosed in heavy metal can insures quiet operation. If Mallory type number is not known refer to Vibrator Guide listed below, or order from ALLIED, stating make, model, tube line of set, and type number of original vibrator. Average shpg. wt., 8 oz.

Mallory Vibrator Guide. Lists replacements for thousands of auto radios. FREE with Mallory Vibrator order.

37-012. NET..... 15c

Mfrs. Type	Stock No.	Volts	Size	List Price	NET EACH
4-4	56-000	6	1 1/2 x 2 1/2"	\$2.50	1.47
222	56-010	6	4 1/2 x 1 1/2 x 1 1/2"	8.50	4.88
245	56-020	6	1 1/2 x 3 1/4"	7.00	4.12
245A	56-021	6	1 1/2 x 3 1/4"	7.00	4.12
245C	56-022	6	1 1/2 x 3 1/4"	7.00	4.12
W245A	56-025	4	1 1/2 x 3 1/4"	7.00	4.12
246	56-026	6	1 1/2 x 3 1/4"	7.00	4.12
246A	56-027	6	1 1/2 x 3 1/4"	7.00	4.12
247	56-029	6	1 1/2 x 3 1/4"	7.00	4.12
F247	56-030	32	1 1/2 x 3 1/4"	7.75	4.56
248	56-031	6	1 1/2 x 3 1/4"	7.00	4.12
249	56-032	6	1 1/2 x 3 1/4"	7.00	4.12
270B	56-039	6	2 1/2 x 1 1/2"	8.30	4.88
271HD	56-040	6	2 1/2 x 1 1/2"	8.30	4.88
273C	56-042	6	2 1/2 x 1 1/2"	8.30	4.88
273D	56-043	6	2 1/2 x 1 1/2"	8.30	4.88
292	56-053	6	1 1/2 x 1 1/2 x 2 1/2"	5.75	3.38
294	56-054	6	1 1/2 x 3 1/4"	4.45	2.62
F294	56-057	32	1 1/2 x 3 1/4"	6.50	3.82
298	56-116	6	1 1/2 x 2 1/2"	5.75	3.38
F502P	56-067	32	1 1/2 x 3 1/4"	8.30	4.88
505P	56-070	6	1 1/2 x 3 1/4"	4.45	2.62
506P	56-071	6	1 1/2 x 2 1/2"	3.75	2.30
509P	56-120	6	1 1/2 x 2 1/2"	3.75	2.30
514	56-076	6	1 1/2 x 3 1/4"	7.00	4.12
716	56-077	6	1 1/2 x 3 1/4"	7.00	4.12
725C	56-079	6	1 1/2 x 3 1/4"	7.75	4.56
G725C	56-080	12	1 1/2 x 3 1/4"	9.05	5.05
742	56-082	6	1 1/2 x 2 1/2"	7.00	4.12
743	56-083	6	1 1/2 x 3 1/4"	7.00	4.12
748	56-112	6	1 1/2 x 2 1/2"	7.00	4.12
G749C	56-115	12	1 1/2 x 3 1/4"	9.05	5.05
825C	56-185	6	1 1/2 x 3 1/4"	6.25	3.62
826C	56-110	6	1 1/2 x 3 1/4"	5.75	3.38
F826C	56-086	32	1 1/2 x 3 1/4"	7.00	4.12
G826C	56-111	12	1 1/2 x 3 1/4"	7.00	4.12
839	56-087	6	1 1/2 x 3 1/4"	5.75	3.38
852	56-055	6	1 1/2 x 3 1/4"	4.45	2.62
853	56-091	6	1 1/2 x 3 1/4"	4.45	2.62
854	56-092	6	1 1/2 x 3 1/4"	4.45	2.62
859	56-113	6	1 1/2 x 2 1/2"	4.45	2.62
860	56-093	6	1 1/2 x 3 1/4"	4.45	2.62
870	56-094	6	1 1/2 x 3 1/4"	4.45	2.62
901M	56-078	6	1 1/2 x 2 1/2"	3.75	2.30
903M	56-121	6	1 1/2 x 2 1/2"	3.75	2.30
952W	56-102	6	1 1/2 x 2 1/2"	7.00	4.12
953W	56-103	6	1 1/2 x 3 1/4"	7.00	4.12
954	56-104	6	1 1/2 x 3 1/4"	7.00	4.12
1100	56-114	6	1 1/2 x 2 1/2"	4.45	2.62
1501	56-117	6	1 1/2 x 2 1/2"	5.75	3.38
1502	56-119	6	1 1/2 x 2 1/2"	6.25	3.62
T4002	56-127	2	1 1/2 x 1 1/2 x 2 1/2"	9.70	5.67
T4003	56-128	2	1 1/2 x 2 1/2"	8.90	5.20

Type W659. Four-volt interruptor-type vibrator for battery-operated photoflash use. Sturdy construction assures lasting dependability. Four-prong base. Shpg. wt., 8 oz.
56-118. NET..... 2.41

Type GC7 Ground Cup. For 1 1/2" diameter vibrators. Makes low RF ground connection from vibrator can to chassis. Shpg. wt., 2 oz.
56-151. NET..... 24c

AUTOLITE RESISTOR SPARK PLUGS

Reduce Interference in Mobile Radio Equipment

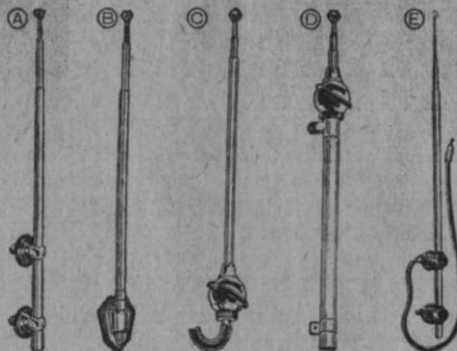
Nationally advertised wide-gap resistor spark plugs. Have built-in 10,000 ohm resistors to greatly reduce ignition interference with mobile radio equipment. Provide smoother engine idle, increased electrode life, and improved gasoline economy as well. For use in taxicabs, trucks, passenger cars, squad or patrol cars, ambulances, or any vehicle equipped with HF or UHF receiving or 2-way radio equipment. If you are not sure of which type to order, specify make and model number of car and we will ship the correct replacements. Average shipping weight, 3 oz.

Write for Quantity Prices

Stock No.	Mfrs. Type	Thread Size	Stock No.	Mfrs. Type	Thread Size
56-620	AR5	14 mm	56-625	BR4	18 mm
56-621	ARL5	14 mm	56-626	BR8	18 mm
56-622	AR8	14 mm	56-627	PR4	10 mm
56-623	ARL8	14 mm	56-628	PR6	10 mm
56-624	AR10	14 mm			

NET EACH..... 95c
Lots of 4 or more, EACH..... 89c

WARD AUTO RADIO AERIALS



SIDE COWL MOUNTS

Model SC-6, Fig. A. "Air King" Chrome-plated, admiralty brass, side cowl antenna. Three sections—extends to 66". Low-loss 2-stanchion mount with ceramic and chrome insulators. Silver-to-silver contacts. High signal to noise ratio. Detachable 36" polyethylene insulated, vinylite covered, high "Q" lead-in, with bayonet adapter. Includes conversion kit for irregular type car bodies. Shpg. wt., 2 lbs.
97-215. List, \$4.95. NET..... 2.91

Model SC-8, Fig. A. "Long Ranger" Four sections—extends to 100". Heavily chrome-plated admiralty brass tubing. Silver-to-silver contacts. High signal to noise ratio. 2-stanchion mount. Detachable 36" polyethylene insulated, vinylite covered, high "Q" lead-in, with bayonet adapter. Includes conversion kit for irregular bodies. Shpg. wt., 2 lbs.
97-216. List, \$6.95. NET..... 4.09

Model CF-6, Fig. B. "Flex Angle" Universal fender or side-cowl mount, 3 sections of chrome-plated brass tubing—extends to 68". Mounts with single ceramic stanchion. Fluid type anti-rattle construction. Can be adjusted at base through range of 16° for upright mounting, regardless of cowl or fender shape. With polyethylene insulated 36" detachable lead-in and bayonet adapter. Shpg. wt., 1 1/4 lbs.
97-217. List, \$5.45. NET..... 3.20

TOP COWL AND FENDER MOUNTS

Model TCF-3, Fig. C. Smart "Eight Ball" design. Gives perfect fit on any car. Three sections—extends to 56". Chrome plated brass tubing. With 36" polyethylene-insulated, vinylite-covered high "Q" lead in, coaxial connector for 100% shielding, and bayonet adapter. Shipping weight, 1 1/4 lbs.
97-221. List, \$5.35. NET..... 3.15

Model DCF-3, Fig. D. "Phantom" type. Telescopes to only 3 1/2" when collapsed. Universal split-ball design for fender or top-cowl, 3 sections—extends to 56". Chrome-plated brass tubing. Complete with polyethylene insulated, vinylite covered 36" coaxial cable, coaxial lead connector, bayonet adapter and universal bracket. Shpg. wt., 2 lbs.
97-222. List, \$6.95. NET..... 4.09

Model DCF-4, Fig. D. "Disappearing" type. Only 9" when collapsed. 4 sections give 100" aerial when extended. Universal ball type mounting. With insulated vinylite covered 36" coaxial cable, coaxial lead connector, bayonet adapter and universal bracket. Shpg. wt., 2 lbs.
97-223. List, \$10.95. NET..... 6.44

LOW-PRICED SIDE COWL ANTENNA

Model SB-2, Fig. E. "Champion" type. Heavy wall brass tubing. Two sections—extends to 43". Low-loss 2-stanchion chrome mount with ceramic insulators. With insulated vinylite covered 36" coaxial cable, coaxial connector and bayonet adapter. Shpg. wt., 1/4 lb.
97-224. List, \$3.49. NET..... 2.05

AERIAL LEAD EXTENSION, Model C-8. 12" long. Provides additional lead length required for fender installation. Shpg. wt., 4 oz.
49-555. List, 75c. NET..... 44c

ICA AUTO ANTENNA VALUES

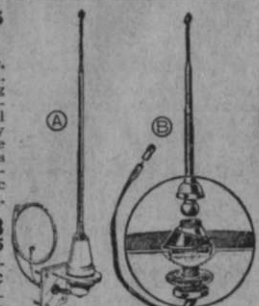
STREAMLINER—FIG. A

Type 4606. Sturdy, double-purpose, bumper mount auto radio antenna. Adjustable from 36° to 96°, providing 1/4-wave for either 6- or 10-meter Amateur mobile operation. For additional height see extensions below. Easily adapted to coax feed. Durably made of heavy triple chrome-plated brass tubing. Low-loss insulation. With aluminum mounting bracket and ceramic base insulator. Shielded 8-ft. lead-in. Shpg. wt., 3 lbs.
97-032. List, \$7.45. NET..... 4.38
Lots of 10, EACH..... 3.75

97-033. Type 4522. 12" lead-in extension for above. NET..... 44c
97-034. Type 4524. 24" lead-in extension for above. NET..... 79c

PIVOT TOPPER—FIG. B

Type 4577. Sturdy automobile antenna. Ideal for use on latest model streamliner cars. Features special-design pivot base to permit easy mounting on any contour. 48" low-loss cable. Extends 29° to 49°. Shpg. wt., 2 lbs.
97-035. List, \$3.95. Lots of 10, EACH, 1.95. NET EACH..... 2.32





**STANCOR MODEL 5T-203-A
MOBILE TRANSMITTER KIT**

An easily constructed 25-watt mobile AM phone transmitter for the Amateur 11- and 10-meter bands. Uses a 6V6 crystal oscillator, 2E26 RF amplifier, push-pull 6V6 Class A modulator and a 615 grounded-grid speech amplifier for single-but-ton carbon microphone. Power requirements: 400 to 500 volts DC at 160-200 DC ma and 6.3 volts at 2.8 amps. Carrier can be controlled by microphone press-to-talk switch. Panel switch selects either of two crystals. Has plug for external 0-150 DC milliammeter and switch on panel to read final cathode or grid current. Built-in 6-volt AC-DC antenna relay. Snap-catches permit easy release of unit from mobile mounting. Complete with all parts, ready for wiring—including silver-gray hammertone finish steel case and chassis (copper-plated beneath finish) measuring 8 1/2 x 7 1/2 x 6 1/2" overall. Less these accessories: tubes, milliammeter, 7-mc crystals with 1/2" pin-spacing, microphone, power supply and antenna. Shpg. wt., 10 lbs.

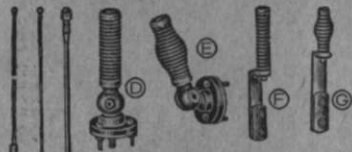
83-416. NET.....44.70

Model 5T-203-W. Wired and Tested. As above but completely assembled and wired, ready to operate. Less accessories listed above. Shpg. wt., 10 lbs.

83-417. CASH PRICE.....58.90

5.89 down, 5.11 monthly for 11 months.

MASTER MOBILE WHIPS



75-METER WHIP—FIG. A

Model M-75. Consists of antenna whip and 75-meter center loading coil enclosed in weather-sealing shield. Overall length, 106". Chrome-plated throughout for lasting appearance and protection. Ten-meter operation provided by shorting out loading coil. Threaded 1/4" stud fits all mobile mounts listed below. Illustration shows M-75 in Model 132 body mount (not included). Shpg. wt., 6 lbs.

97-156. NET.....7.79

96" WHIP ANTENNA—FIG. B

Model 100-96S. 96" stainless steel whip. Fits all models. Cut off 1/4" bottom stud to use with model 92 Whip Extension listed below. Shpg. wt., 3 lbs.

97-155. NET.....4.67

Model 92 Whip Extension. Fig. C. Has 1/4" bottom stud. Collect top. Fits all mounts. Provides 18" whip adjustment. Shpg. wt., 1 lb.

97-154. NET.....2.91

BODY AND BUMPER MOUNTS

Heavy-duty mobile antenna mounts. Swivel type fits anywhere on car—bumper type for older style cars. Straight- and double-tapered spring types. All are tapped for 1/4" stud fitting on antenna end. Shpg. wt., 3 lbs.

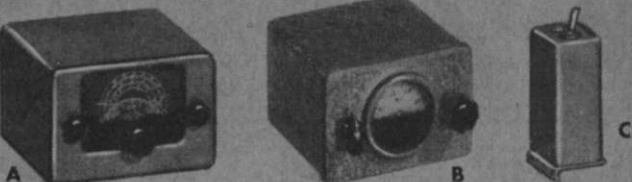
97-150. Fig. D. Model 126 Body Mount. Straight-spring; swivel base. **NET.....7.79**

97-151. Fig. E. Model 132 Body Mount. Double-tapered; swivel base. **NET.....7.79**

97-152. Fig. F. Model 138 Bumper Mount. Straight-spring; rigid mount. **NET.....5.85**

97-153. Fig. G. Model 140 Bumper Mount. Double-tapered; rigid mount. **NET.....5.85**

POPULAR AMATEUR EQUIPMENT



GONSET RECEIVING EQUIPMENT

Fig. A. 3-30 Converter. Provides continuous tuning from 3 to 30 mc in 3 bands. Has illuminated dial. For use with any receiver tunable to 1500 kc. Switch cuts converter out of circuit for normal BC reception. Requires 180 volts at 10 ma and 6 volts at 0.75 amps. Uses 6BH6 TRF, 6AV6 mixer, 6C4 oscillator and 6BH6 IF. Has antenna peaking trimmer. With tubes, cables, instructions. Gray metal case, 5 1/4 x 3 1/2 x 5 1/4". Shpg. wt., 5 lbs.

84-954. NET.....39.95

Fig. B. 10-11 Meter Converter. Has band-spread 27-32 mc range. 1500-2000 kc output. Switch cuts unit out of circuit for normal BC reception. Has illuminated dial. Uses 6AK5 TRF, 6AK5 mixer and 6C4 osc. Also has 0B2 voltage reg. Requires 180 volts at 10 ma and 6 volts at 0.5 amp. Gray case, 3 1/2 x 5 1/4 x 5 1/4". With tubes, cables, instructions. Shpg. wt., 5 lbs.

84-956. NET.....39.95

Fig. B. 75-meter Converter. Popular Amateur mobile converter providing band-spread coverage of the 3750 to 4000 kc range. 1500 kc output. Switch cuts unit out of circuit for normal BC reception. Has illuminated dial. Controls: RF gain and tuning. Uses 6AK5 TRF, 6AK5 mixer and 6C4 oscillator. Also has 0B2 voltage regulator. Requires: 180 volts at 10 ma and 6 volts at 0.5 amp. Gray crackle finish case measures 3 1/2 x 5 1/4 x 5 1/4". Supplied complete with tubes, cables and instructions. Shpg. wt., 5 lbs.

84-953. NET.....39.95

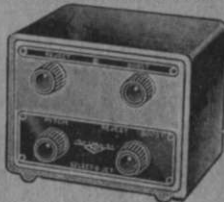
Fig. C. Clipper Noise Limiter. Recommended for mobile installations to reduce ignition interference. Easy to install in any receiver in which 2nd det-AVC-1st audio are in one tube. Has on-off switch. 2x4x1 1/2". With 6AL5, cables, instructions. Shpg. wt., 2 lbs.

60-596. NET.....8.25

NATIONAL SELECT-O-JECT

Connect this amazing new signal interference eliminator to the output of your communications receiver and enjoy freedom from QRM on crowded Amateur bands! Provides a 38 db boost to the signal you want to hear or reduces an interfering phone heterodyne or CW signal by 38 db, leaving the desired signal out in the clear by itself. Can also be used as an audio oscillator with 100-to-1 frequency range in single dial rotation, or as an excellent code practice oscillator. Designed for National receivers and any others capable of supplying 6.3 volts at 0.6 amps and 200-250 volts at 4 ma. Supplied complete with all tubes and instructions—ready to operate. Size, 5 1/4 x 6 1/4 x 4 1/4". Shpg. wt., 4 lbs.

97-724. Type 50-J-1. NET.....24.95



ELDICO TRANSMITTER KITS



MODEL TR-1 300 WATTS

All-band 80-10 meter AM phone-CW transmitter. Bandswitching in all stages except final. Includes transformers, capacitors, resistors, antenna relay, meter, coils, tubes, wire, solder, hdvc, E-V 915 mike and 2 punched chassis: RF, 17x13x4"; power supply, 17x13x3". Uses 6V6 xtal osc., 6V6 and 6L6 doubler-amplifiers; 813 final, 100% modulated by Class B 811s. Has 6L6 keyer tube. Power supplies—bias, 500 v at 200 ma, and 1500 v at 350 ma. Less 1/2" pin-spacing crystal. With instructions. For 110-120 v, 50-60 cycles AC. Shpg. wt., 106 lbs.

97-794. CASH PRICE.....179.50

17.95 down, 14.27 monthly for 12 months.

MD-40 LOW-POWER MODULATOR

Provides a full 40 watts of audio output to 100% modulate Model TR-75 transmitter described above right, or any other of similar power. Uses push-pull Class AB2 6L6 modulators. Speech amplifier uses 6S17 input, 6L5 bias, 500 v at 200 ma, and 1500 v at 350 ma. Less 1/2" pin-spacing crystal. Complete with every part, wire and solder—including E-V 915 crystal microphone, but less power supply. Requires 250-375 v DC at 100-200 ma, and 6.3 v at 3 amps. Chassis size: 15x7x3". With instructions. Shpg. wt., 18 lbs.

97-797. NET.....29.95

HIGH-VOLTAGE POWER SUPPLY KITS

Husky, dependable high-power transmitter power supplies for heavy-duty service. For half-KW or one-KW transmitters. Kits include plate and rectifier filament transformers, two oil-filled filter condensers, two smoothing chokes, bleeder, rectifier sockets, safety plate caps, terminal strip, control switch, pilot light assembly, heavy-duty AC line cable and instructions. For 110-120 volts, 50-60 cycles. Less only chassis and rectifier tubes.

Type HV-1500. Uses 866A rectifiers. Output: 1500 volts, 350 ma. Shpg. wt., 55 lbs.

97-798. NET.....29.50

Type HV-2000. Uses 872A rectifiers. Output: 2000 volts, 500 ma. Shpg. wt., 144 lbs. **NET.....69.50**

MODEL TR-75 75 WATTS

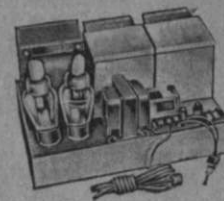
Easy-to-build beginner's or auxiliary CW transmitters. Power: 75 watts input on all Amateur bands, 80-10 meters. Harmonic-reducing output circuit permits easy matching to any single-wire antenna. Uses 6AG7 xtal osc. and 807 final. Husky power supply with 5U4G rectifier delivers 600 volts. Complete with every part, including all tubes, coils, capacitors, meter, resistors, hardware, chassis, shield cover and key. Less 1/2" pin-spacing crystal. Overall size with cover: 17x11x9". And MD-40 modulator for phone operation. For 110-120 v, 50-60 cycles. With instructions. Shpg. wt., 42 lbs.

97-795. NET.....34.95

MD-100 MEDIUM-POWER MODULATOR

Here's the ideal modulator for any transmitter running up to a quarter-kilowatt RF power! A high-quality unit employing push-pull 807 Class AB2 modulators. Uses 6S17 speech input, 6SN7 speech amplifier/phase inverter and 6XN7 driving the 807 modulators. Complete down to the last detail—nothing else to buy. Includes all tubes, resistors, capacitors, connectors, all transformers, power supply components, punched 17x11x3" chassis and E-V 915 crystal microphone. Audio power output: 100 watts. Operates from 110-120 volts, 50-60 cycles AC. Full instructions included. Shpg. wt., 39 lbs.

97-796. NET.....44.95



Tools and Accessories

THOR "COPPER LINE" 1/4" DRILL



With Jacobs Chuck

With Jacobs Chuck
Built to highest standards of quality, yet low priced. A labor-saving tool for general purpose and light duty industrial and shop work. Ideal for serviceman, home craftsman, or Amateur. Well-balanced for ease and accuracy in drilling. Closed grip handle, 2,000 rpm motor. Alloy steel gears. High-overload capacity. Easily handles such accessories as hole saws, etc. Equipped with standard Jacobs hex key chuck. Recessed on-off switch is at top of handle for easy thumb-operation. For operation from 110-120 volt, 60 cycle AC, or DC. Drill weighs 4 lbs.; overall length, 11 3/4". With chuck key. Shpg. wt., 5 lbs.

46-058. NET.....21.95

THOR "COPPER LINE" 1/2" ELECTRIC DRILL

Husky general-purpose 1/2" drill for home workshop, light industrial or shop use. Die cast aluminum housing with copper finish. Provided with self-lubricating bearings, alloy steel gears. Speed and torque ample for hole saws and other accessories. Has momentary trigger switch with lock and Jacobs hex key chuck. Speed, 420 rpm. Weight, 10 lbs. Overall length, 14 1/4". With chuck key. Shpg. wt., 13 lbs.

46-059. NET.....36.95

FASCO 1/4" ELECTRIC DRILL

Perfectly Balanced



A sturdy general-purpose drill that will be welcome in any workshop. Drills up to 1/2" holes in any material, up to 1/2" holes in wood. Snug-fitting pistol grip handle permits high pressure and accuracy with a minimum of effort; has instant make-break trigger switch in handle that locks with slight pressure for steady drilling. Genuine Jacobs chuck permits fast drill changing and perfect positioning of drill bit.

Has powerful 110-120 volt AC-DC motor; oversize bearings and double-reduction machined alloy gears assure quiet, dependable operation. No-load speed is 1600 rpm. Has sturdy, light weight die-cast aluminum housing. Heavy duty line cord has grounding wire. Overall size, including chuck, 7 1/4"; diameter, 2 1/4". Shpg. wt., 4 1/2 lbs.

46-068. NET.....15.64

DRILL PRESS ASSEMBLY. Converts Fasco 1/4" electric hand drill above into a vertical, bench-mounted drill press. Drills to the center of an 8" circle, with 3 1/2" vertical travel. Maximum distance between drill chuck and table-top is 10 1/2". Assembly attaches easily to bench top with 4 heavy screws supplied. Shpg. wt., 12 lbs.

46-069. NET.....9.37



KESTER SOLDERS

Famous for uniformity and reliability. Compounded of tin and lead of the highest grade. Flux filling is evenly distributed and flows easily. Shpg. wts.: Handy tin, 3 oz.; 1-lb. spools, 1 1/4 lbs.; 5-lb. spools, 6 1/4 lbs.

ROSIN CORE SOLDER

Standard Rosin Core. Diameter, 3/32". Plastic rosin filled. For all radio and electrical work. Non-corrosive.

46-900. Handy Tin. NET.....17c

46-901. 1 lb. spool. NET.....86c

46-902. 5 lb. spool. NET.....4.10

Thin Rosin Core. Diameter, 1/16". High quality solder, plastic rosin filled. For delicate soldering where only the smallest amount of solder is desired. Non-corrosive.

46-930. 1 lb. spool. NET.....89c

46-931. 5 lb. spool. NET.....4.25

"RESIN FIVE" CORE SOLDER

Features a new resin flux that is more active than conventional resin flux—yet absolutely safe to use. Makes difficult radio soldering jobs easier and faster. Non-corrosive. Available in three tin-to-lead ratios. 1-lb. spools. Standard 3/32" dia. Shpg. wt., 1 1/4 lbs.

40/60. Alloy consists of 40% tin, 60% lead. 46-916. NET.....86c

45/55. Alloy consists of 45% tin, 55% lead. 46-917. NET.....91c

50/50. Alloy consists of 50% tin, 50% lead. 46-918. NET.....95c

ACID CORE SOLDER

Recommended for all general soldering other than electrical connections. Acid flux saves time; makes a lasting job.

46-905. Handy tin. NET.....17c

46-906. 1 lb. spool. NET.....86c

46-907. 5 lb. spool. NET.....4.10

BAR SOLDER

One pound bar. 60% lead, 40% tin. Top quality for permanent soldering jobs. Shpg. wt., 1 1/4 lbs.

46-925. NET.....69c

SOLDERING PASTE

Specially processed for finer, more even distribution of fluxing ingredients. Permits a clean, non-corrosive solder job. Convenient 2 oz. cans. Wt., 5 oz.

46-915. NET.....12c

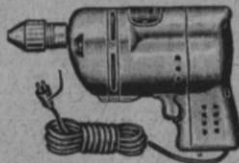
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KESTER TINNING BLOCK

Cleans and tins soldering irons quickly. Replaces sal ammoniac. Permits efficient soldering. Shpg. wt., 1 1/4 lbs.

46-922. NET.....45c

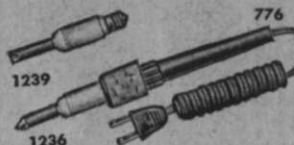
Made by Black & Decker



HOME UTILITY 1/4" DRILL

Here's a powerful, solidly built 1/4" electric drill for use in the home or shop. Drills in steel, aluminum, plastics, wood, etc. Wood bits up to 1/2" with 1/4" shanks can be used to drill soft materials such as wood, plastics, etc. Perfectly balanced, it weighs only 3 1/4 lbs., yet it packs the power of a heavyweight! Pistol grip instant release "trigger" switch can be locked "ON"; if desired; spring release operates instantly when trigger is squeezed. 2250 rpm AC-DC motor, forced-air cooled. Fast-operating Jacobs hex-key chuck and key. Strong, lightweight die-cast aluminum housing. Compact, easy to handle; only 7 3/4" long. Operates from 110-120 volts, 50-60 cycle AC, or DC. With instruction manual explaining proper care of drill. Shpg. wt., 5 lbs.

46-037. NET.....18.95



NEW UNGAR HI-HEAT SOLDERING PENCIL

Lightweight 20-watt pencil soldering iron with Pyramid tip. Insulated plastic handle with line cord and candelabra socket for interchangeable tips. Heats to 600° in 90 seconds. Ceramic heat barrier on tips. Excellent for high-speed production soldering and radio servicing. UL Approved. 7x1" dia. For 110-120 v. AC-DC. Shpg. wt., 1/2 lb.

46-591. Solder pencil No. 776 with Pyramid tip. No. 1236. NET.....1.76

Lots of 10, EACH.....1.43

46-581. 776 Cord and pencil only. NET EACH.....78c

Lots of 10, EACH.....64c

46-592. 1236 Pyramid tip. NET EACH.....98c

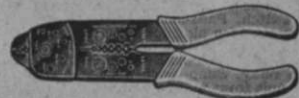
46-593. 1239 Chisel tip. NET EACH.....98c

Lots of 10, EACH.....79c

PRECISION SCREWDRIVER SET

Contains 5 interchangeable nickel-plated steel blades in sizes .100", .080", .070", .055" and .040". Insert quickly and firmly into chuck on nickel-plated, knurled steel barrel handle, which has an aluminum swivel top for ease of operation. Excellent for kit-building, model-building; repairing radios, electrical appliances, cameras, musical instruments, electric razors, and all tiny mechanisms. With aluminum storage rack and clear plastic dust cover. Shpg. wt., 1 lb.

43-859. NET.....98c



A-M P TERMINAL TOOL

Hardened steel tool for crimping solderless terminals, wire cutting and stripping, and for shearing bolts. For stripping insulation from wire sizes from No. 22 to No. 10. Shears 10-24, 10-32, 8-32, 6-32 and 4-40 bolts without damage to threads. Markings stamped on frame give B. & S. gauge wire sizes. Has curved, plastic insulated handle. Designed for use with terminals below, but will crimp any solderless terminal. 7 3/4" long. Shpg. wt., 1 lb.

44-453. NET.....2.94

A-M P "WIRE END" TERMINALS

Ring Tongue. Type 36504. For wire sizes 22-16. Stud size, No. 10. Barrel extension, 1 1/2". Tongue width, 3/16". Length, 3/4". 100 to a pkg. Shpg. wt., 4 oz.

44-454. NET.....1.13

Ring Tongue. Type 36521. For wire sizes 16-14. Stud size, No. 10. Barrel extension, 1 1/2". Tongue width, 1/8". Length, 3/4". 100 to a pkg. Shpg. wt., 4 oz.

44-456. NET.....1.13

Slotted Tongue. Type 36513. For wire sizes 22-16. Stud size, No. 6. Barrel ext., 3/8". Tongue width, 1/8". Length, 3/4". 100 to a pkg. Shpg. wt., 4 oz.

44-455. NET.....1.13

Butt Connectors. Type 36551. For joining two wires, 22-16, 3/4" long. Shpg. wt., 5 oz.

44-458. NET.....1.47

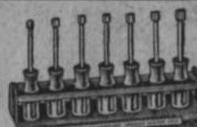
Parallel Connectors. Type 36548. For overlap connections. Takes 22-16 wires, 3/8" long. 100 to a pkg. Shpg. wt., 4 oz.

44-457. NET.....1.08

FLEXTRON TWIN LEAD STRIPPER

Single twist of handle strips 300-ohm twin-lead quickly and cleanly. Twin-lead inserts in slot—comes out with conductor ends bare. A tremendous time saver. Size, 3 1/2"x2"x3/4". Shpg. wt., 1/2 lb.

46-019. NET.....2.84



XCELITE SUPER NUT DRIVERS

Contains 7 wrenches ranging in size from 3/8" to 1 1/2" in 1/4" steps. Full-size handles are made of genuine Xcelite plastic, and are correctly shaped for grip and balance. Sockets are free of burrs, fit the nuts snugly, and are deep enough to handle 2 nuts. Hardened to retain their shape under continuous service. Depth of shaft hole, 1/4". Shafts are polished. With handy metal rack. A time-saving set of wrenches. Shpg. wt., 2 lbs.

45-737. NET.....3.79

Tools and Accessories

FAMOUS CASCO ELECTRIC HOBBY TOOL KITS



Model G-25
 cutter; 1—sanding drum; 1—flat-edge abrasive cylinder with hollow end; 1—knife-edge abrasive wheel; 1—flat brush; 1—cup brush; 1—porte brush; 1—circular cutter; 2—twist drills; 1—1/2" collet; 1—3/8" collet; 1—polishing compound; 1—buffing compound; 1—abrasive cone; 2—abrasive rods; 1—1/2" ball cutter; 5—abrasive discs; 1—oblong cutter; 3—speed drills; 1—dressing stone; 8—mandrels; and 1—combination screwdriver and wrench. With maroon plastic case, 3/4"x10x6 1/4". Instruction manual lists things to make. Shpg. wt., 3 1/2 lbs.
46-078. List, \$19.95. Lots of 3, EA., **11.97. NET EACH 12.97**

ELECTROMATIC 50-PIECE KIT
Model G-25. Features an electric drill and 50 accessories for grinding, polishing, cutting, drilling and shaping plastics, wood, metal, glass, etc. Air-cooled plastic-case tool has fractional HP, 110-volt AC-DC motor which develops 20,000 rpm. Accessories: 1—cloth buffer; 1—felt buffer; 1—fine abrasive wheel; 1—scratch brush wheel; 5—sanding discs; 1—rubber-bonded polisher; 1—3/8" saw; 1—1/4" saw; 1—cone abrasive wheel; 1—abrasive cylinder with hollow end; 1—flat brush; 1—cup brush; 1—porte brush; 1—circular cutter; 2—twist drills; 1—1/2" collet; 1—3/8" collet; 1—polishing compound; 1—buffing compound; 1—abrasive cone; 2—abrasive rods; 1—1/2" ball cutter; 5—abrasive discs; 1—oblong cutter; 3—speed drills; 1—dressing stone; 8—mandrels; and 1—combination screwdriver and wrench. With maroon plastic case, 3/4"x10x6 1/4". Instruction manual lists things to make. Shpg. wt., 3 1/2 lbs.
46-078. List, \$19.95. Lots of 3, EA., **11.97. NET EACH 12.97**

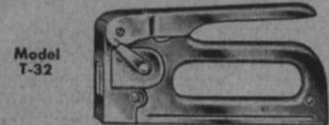
ELECTR-O-TOOL 25-PIECE KIT
Model G-15. Same power tool as at left, but in smaller green plastic box, and with following 25 accessories only: 1—cloth buffer; 1—fine abrasive wheel; 1—flat-edge abrasive cylinder with hollow end; 1—flat brush; 1—cup brush; 1—porte brush; 1—1/2" collet; 1—3/8" collet; 1—abrasive cone; 1—1/2" ball cutter; 3—abrasive discs; 1—speed drill; 1—dressing stone; 3—mandrels; and 1—combination screwdriver and wrench. Complete with drill and case, plus instructions. Shpg. wt., 4 lbs.
46-081. List, \$14.95. Lots of 6 EA., **8.97. NET EACH 9.72**



Model G-15
 1—flat brush; 1—cup brush; 1—porte brush; 1—1/2" collet; 1—3/8" collet; 1—abrasive cone; 1—1/2" ball cutter; 3—abrasive discs; 1—speed drill; 1—dressing stone; 3—mandrels; and 1—combination screwdriver and wrench. Complete with drill and case, plus instructions. Shpg. wt., 4 lbs.
46-081. List, \$14.95. Lots of 6 EA., **8.97. NET EACH 9.72**

TOOL-N-RAK 40-PIECE KIT

Model G-26. As above, but with hardwood wall rack and 15 additional accessories: 1 each—buffer, scratch brush wheel, cone cutter, knife-edge abrasive wheel, buffing compound, polishing compound, 3/4" saw; sanding discs; 2 each—drills, abrasive discs; 3 mandrels; 5 lbs.
46-079. List, \$17.95. Lots of 3, EA., **10.77. NET EACH 11.67**



ARROW GUN TACKER

Easy-action stapling tool. Excellent for tacking down 300-ohm twin-lead, intercom cable, etc. A real time-saving tool for dressing windows, decorative displays, assembling exhibits, etc. Features more convenient, faster, more accurate operation afforded by "pistol grip." Just hold Gun Tacker against surface and squeeze—staple goes in wherever a tack can be driven. See below for special staple clips. Simple to load and easy to use. Steel with chrome-plated finish. Shpg. wt., 3 lbs.
46-062. NET..... **6.37**
Staple Clips. For Gun Tacker above. Length, 3/4". Package contains 5,000 staples. Shipping weight, 6 oz.
46-063. NET..... **1.47**

GREENLEE TYPE 731

SQUARE CHASSIS PUNCHES

For cutting square holes in metal panels or chassis up to 1/4" thick. Cut smooth openings to exact size needed. Successive full or partial cuts produce oblong or angular-shaped holes. Available in 3 sizes for making 3/4", 3/8" and 1" square holes. Punch has 4 cutting edges. Easy to operate—ordinary wrench turns drive screw, forcing cutting edges through metal. Drives screws requires 1/2" hole. Made of high quality tempered tool steel. Shpg. wt., 2 lbs.
46-276. For 3/4" hole. NET..... **3.02**
46-277. For 3/8" hole. NET..... **3.51**
46-278. For 1" hole. NET..... **4.05**



EQUIPTO 8 DRAWER CABINET

High quality, general purpose storage cabinet. Excellent for storing small parts, hardware, tools, supplies, merchandise, etc., in workshops, stores, offices, or anywhere that an attractive, durable storage rack is required. Especially suited for radio servicemen. Heavy-duty, welded steel frame holds 8 drawers on 2 levels. Each drawer has 2 cross-dividers, adjustable in 1" steps, making a total of 24 compartments. Drawers are made of heavy steel, with full-size handles and slot solder for label cards. Durable baked olive-green enamel finish. Drawer size, 3 1/2" high, 3 1/2" wide and 1 1/2" deep. Cabinet size, 10" high, 25 1/2" wide and 12" deep. Wt., 30 lbs.
86-012. NET..... **10.50**



BURGESS VIBRO-TOOL MASTER-KRAFT KIT

Versatile marking, engraving, and craftsman's kit. It's the famous easy-to-use Burgess Vibro-Tool, complete with 9 different attachments plus sharpening stone. With this kit, it's easy to engrave names on steel tools, engrave nameplates and terminal markings on metal radio panels and chassis, decorate glass and plastics, tool leather, emboss metal, cut linoleum blocks, engrave jewelry, and carve wood. Attachments include curved chisel, small V-chisel, abrasive point, leather modeler, ball point, leather punch, tantulum carbide point, straight knife, belly knife, and special stone for sharpening. Supplied complete with 10-page, illustrated instruction booklet that shows many types of decorative and hobby-craft work that can be done with the Burgess Vibro-Tool, and explains proper care of the tool. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 5 lbs.
46-129. List, \$9.95. **7.50**
NET EACH..... **6.00**
 Lots of 2-5, EA., **6.65** Lots of 6, EA., **6.00**

5-IN-1 SCREWDRIVER KIT

Features five different interchangeable blades for numerous applications. Shockproof, unbreakable plastic handle has chuck head for quick, positive attachment of blades. Blades are strong, hardened tool steel. Kit consists of one each—1/2" cabinet blade, 3/8" cabinet blade, 1/4" keystone blade, 3/8" tip; Phillips No. 1 blade, 1/4" tip; Phillips No. 2 blade, plastic handle and leatherette pocket roll. Shpg. wt., 8 oz.
46-096. NET..... **1.37**



McKAIG-HATCH CLAW HAMMER

New general-purpose hammer. Finely balanced. 16-oz. forged steel head with face and claws specially heat-treated for proper impact strength and toughness. Claws split to fine point—will pull even the smallest nails. Handle is selected, kiln dried, clear grain hickory in natural lacquered finish. Iron wedges prevent handle from coming loose. Overall length, 12 1/4". Shpg. wt., 1 1/2 lbs.
46-097. NET..... **1.28**



WALSCO TV ALIGNMENT TOOLS

12 Tools on Wall Rack
Type 581. All tools needed to align any TV set. Knurled plastic handles. Tempered steel or plastic shafts. Handy wall rack holds each tool. Includes 8 tools below, plus 4 std. alignment tools (1) Type 2503, 1/4" hex nut, wrench (2) Type 2508, 3/8" hex nut, wrench (3) Type 2520, duplex alignment screwdriver (4) Type 2540, tuning wand. 4 lbs.
42-280. NET..... **6.76**

12 Tools in Leatherette Case

Type 580. Same popular selection of television receiver aligning tools, but supplied with handy leatherette case for portable use. Shipping weight, 3 lbs.
42-281. NET..... **6.76**

Individual Alignment Tools

Type 518. Designed specifically for alignment of television receivers manufactured by Philco. Shpg. wt., 5 oz. **94c**
42-282. NET..... **94c**
Type 2522. For alignment adjustments on TV receivers incorporating "Standard Coil" front ends. Shpg. wt., 6 oz. **59c**
42-283. NET..... **59c**
Type 2516. TV and FM receiver IF alignment screwdriver, 8 1/2" long, for use on size 6 studs. Shpg. wt., 5 oz. **59c**
42-284. NET..... **59c**
Type 2517. TV-FM IF alignment tool, 3" long, for No. 6 studs. Shpg. wt., 4 oz. **56c**
42-285. NET..... **56c**
Type 2519. TV-FM IF alignment tool, 7" long. One end for No. 6 studs, other for No. 4 studs. Shpg. wt., 3 oz. **56c**
42-286. NET..... **56c**
Type 2524. Television and FM receiver IF alignment tool, 8 1/2" long. Slotted type, for No. 6 studs. Shpg. wt., 5 oz. **59c**
42-287. NET..... **59c**
Type 2512. Wire dressing and alignment tool, 7" long; polystyrene. Wire dresser on one end, screwdriver on other end. Wt., 3 oz. **32c**
42-288. NET..... **32c**
Type 2515. "K-Tran" IF transformer alignment tool. Fits "K-Tran" on one end; screwdriver tip on other end. Wt., 3 oz. **44c**
42-289. NET..... **44c**

SEE CATALOG 120

For a complete listing of tools and storage cabinets, see pages 165-174 of ALLIED Catalog No. 120.



NEW BOOKS AND MANUALS



"MAGNETIC RECORDING"

By S. J. Begun. The first comprehensive book on magnetic recording. Provides an authoritative engineering treatment of the theory, design and application of magnetic recorders, with performance measurements on all types. Covers wire recording thoroughly. Includes data on such tape recorders as Brush "Soundmirror," etc. Typical chapters: Acoustic Factors in Magnetic Recorders; Components of Magnetic Recorders; Magnetic Recording Equipment. 242 pages. 6 1/2 x 9".
37-729. Postpaid in U.S.A. 5.00

"SOUND REPRODUCTION"

By G. A. Briggs. Recommended by a leading national research organization as the best book on loudspeakers and related high-fidelity problems. Covers speakers and cabinets, reproduction of high- and low-frequency tones, distortion, magnetic recording, and a thorough treatment of disc-recording systems. Typical chapters: Dynamic Range and Tone Quality; Recording Characteristics; Pickups; Microgroove Recording; Needles and Grooves; etc. 144 pages. 5 1/2 x 8 3/4".
37-326. Postpaid in U.S.A. 2.21

"HOW TO SERVICE RADIOS WITH AN OSCILLOSCOPE"

Published by Sylvania Electric. Explains operation and applications of oscilloscopes in servicing AM and FM radios, amplifiers and transmitters. Covers linear time base, voltage measurements, etc. Well illustrated. 71 pages. 8 1/2 x 11".
37-152. Postpaid in U.S.A. 1.00

"THE RADIO HANDBOOK"

12th Edition. New all-constructional edition. How-to-build-it data on all-new equipment. Does not repeat 11th edition. Covers antennas, power supplies, exciters and low-power transmitters, test and measurement equipment, mobile equipment, etc. Typical chapters: Operating Conveniences; Television and Broadcast Interference. 320 pages. Size, 6 1/2 x 9 1/2".
37-699. Postpaid in U.S.A. 3.00

11th Edition. Contains supplementary information. Provides simplified theoretical material and reference as well as construction data. 512 pages. 8 1/2 x 11 1/4".
37-675. Postpaid in U.S.A. 3.00

RIDER'S "THE BUSINESS HELPER"

By Leslie C. Rucker. A non-technical handbook for the small businessman. Discusses problems such as overhead expenses, banking, bookkeeping, advertising, etc. Gives invaluable advice on how to operate profitably. 133 pages. 5 1/4 x 7 1/2".
37-634. Postpaid in U.S.A. 1.96

"ELECTRONICS MANUAL FOR RADIO ENGINEERS"

Edited by Vin Zeluff and John Markus. Contains 289 radio articles originally published in Electronics Magazine. Practical radio engineering data selected for its permanent reference value. Includes circuit diagrams, formulas, graphs, etc.—everything arranged and indexed for quick reference. 879 pages. 8 1/2 x 11".
37-873. Postpaid in U.S.A. 9.31

"BASIC TV PRINCIPLES & SERVICING"

By Bernard Grob. A self-instruction course in television receiver servicing. Explains all important aspects step-by-step—with their particular application to transmission or reception. Highly technical points are handled in simple, non-technical language. Servicing problems are explained by blocks of circuits—power supply, sweep, signal frequency, sound and picture circuits. Trouble-shooting charts are also included. More than 400 illustrations. 592 pages. Size, 6 x 9".
37-879. Postpaid in U.S.A. 6.47

"TELEVISION FOR RADIO MEN"

By Edward M. Noll. A practical textbook for radiomen and television students who have a basic knowledge of radio circuits. Explains fundamental theory and its application in the construction and operation of the television receiver. Treats each section of the receiver separately. Ideal for schools, or as a self-instruction course. Each chapter concludes with 25 questions on the material covered, and a bibliography for further reference. Illustrated. 595 pages. 6 1/4 x 9 1/2".
37-790. Postpaid in U.S.A. 6.86

SUPREME'S "MOST-OFTEN-NEEDED 1950 TV SERVICING INFORMATION"

Compiled by M. N. Beitman. Contains servicing information on the most popular models of leading television manufacturers. Includes test patterns, waveforms, alignment data, parts lists, etc. Paper bound. 144 pages. 8 1/4 x 10 1/4".
37-876. Postpaid in U.S.A. 3.00

"PRACTICAL TELEVISION SERVICING"

By J. R. Johnson and J. H. Newitt. Tells how to install, test and repair TV receivers. Chapters include: Common Troubles in Television Receivers; Antennas and Wave Propagation; Synchronizing and Sweep Circuits. 334 pages. 6 x 9".
37-734. Postpaid in U.S.A. 4.00

SAMS "DIAL CORD STRINGING GUIDE"

Volume 2. All new material. Contains dial cord stringing diagrams of 511 radio receivers manufactured since the publication of Volume 1 of this popular series. 96 pages. Pocket size, 8 1/2 x 5 1/2".
38-568. Postpaid in U.S.A. 1.00

SAMS "TV TUBE LOCATION GUIDE"

Indispensable to television servicemen! Contains 218 charts covering the tube locations of TV receivers produced by 56 manufacturers. Permits preliminary diagnosis without chassis removal. Over 200 pages. Size, 8 1/2 x 5 1/2".
38-855. Postpaid in U.S.A. 1.50

RIDER'S "RADIO OPERATOR'S LICENSE Q&A MANUAL"

By Milton Kaufman. An indispensable reference manual for the student and the operator. Lists questions and answers to past FCC exams, plus a thorough discussion of the subjects covered. Completely up-to-date, all-inclusive coverage based upon the latest Study Guide and FCC releases. 600 pages. 8 1/2 x 5 1/4".
37-638. Postpaid in U.S.A. 5.88

NEW "PHOTOFACT" SERVICE MANUALS

Each Sams Manual contains 10 Folder Sets consisting of hundreds of individual Folders covering AM, FM, and TV sets, as well as record changers, audio amplifiers, tuners, etc. Each Folder contains diagrams, parts numbers, replacements, installation notes, dial cord data, voltage, resistance chart and chassis photos. In deluxe binders. Purchase gives you membership in the Sams Radio Institute, where specialists help you with practical answers to questions.

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38-557. Postpaid in U.S.A. 18.39

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90-027. Postpaid in U.S.A. 17.64

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90-025. Postpaid in U.S.A. 17.64

Radio Receivers—Volume 20. Latest volume Receiver Manual series. Covers sets from April, 1949 to January, 1950. Approximately 2000 pages. 12x15".
90-021. Postpaid in U.S.A. 17.64

Three or more Rider Manuals may be bought on ALLIED's Easy Time Payment Plan. Only 10% down, up to 12 full months to pay balance. Write us, specifying the manuals wanted, and a time payment form will be supplied promptly.

RIDER'S "C-R TUBE AT WORK"

New Edition. Completely re-written and expanded. An up-to-date, comprehensive review of the theory and operation of cathode-ray equipment. Covers scopes, TV receivers, industrial applications, complex waves, etc. Over 900 pages. 8 1/2 x 11".
37-624. Postpaid in U.S.A. 8.82

COYNE'S "PRACTICAL TV SERVICING AND TROUBLE-SHOOTING MANUAL"

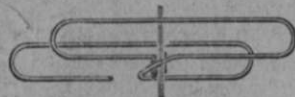
A practical book of solid television servicing data. Written for radiomen—emphasizes the various ways that radio servicing knowledge ties in with TV servicing. Contains latest information on color television, including detailed descriptions of proposed systems. Illustrated. 390 pages. Size, 8 1/2 x 5 1/2".
37-664. Postpaid in U.S.A. 4.25



NEW TELEVISION ROTATING TABLE

Here's a new rotary-top television table at an amazing low price! Handsome, versatile, it accommodates almost all table model TV sets. Solves the problem of finding a suitable location for television receiver. Placed on this table, a TV set can be turned to permit full visibility from any part of the room. The table top is mounted on a smooth-operating roller-bearing swivel which provides easy 360° rotation in either direction. Made of beautiful mahogany veneers and select hardwoods in attractive lacquer finish. Supplied knocked-down. Easy to assemble—legs are secured with corner brackets and wing nuts. Makes an attractive furniture piece that not only increases television pleasure but blends with the finest furnishings. Table top is 20½x23". Height is just right for comfortable viewing—26". Shpg. wt., 29 lbs.

98-995, NET.....11.76



NEW ICA "VIDI AUTO RADIO BOOSTER"

Add a touch of modernism to your auto antenna. And at the same time—improve reception on your auto radio. Built like a television antenna in miniature, the "Vidi Auto Radio Booster" provides 52 inches of additional antenna length, assuring excellent reception of distant stations. It clamps on to the top of your present antenna. Anyone can install it in a few minutes. Finished in gleaming triple-plated chrome. Made of Admiralty brass. Extremely light and compact—offers practically no resistance to wind. Overall size, 10x3x3". Shpg. wt., 10 oz.

97-040, List, \$1.95. NET.....1.15



NEW AUTONE REAR DECK AUTO SPEAKER

New auxiliary speaker for rear deck installation in automobiles. Provides "living room" radio reception in any car. Quick, easy installation—merely mount on back seat shelf and connect to auto radio. Three-way control switch permits operation of front or rear speaker independently, or both simultaneously. Eliminates distracting driver by turning up volume for the rear passengers. With an Autone rear deck speaker installed, clear, car-wide radio reception with full, rich tone quality is easily obtainable. Consists of newly designed 6" PM Alnico V speaker with sealed 2.15-oz. magnet and protected basket. Has 3.2-ohm voice coil. Handsome brown-flocked finish grill. Complete with 15-ft. 2-conductor cable, 3-ft. 3-conductor cable, and fully detailed instructions on how to install in any automobile that has a radio receiver. Shpg. wt., 2 lbs.

81-670, List, \$10.00. NET.....5.88



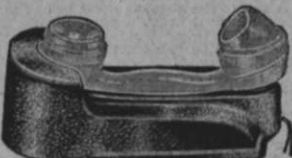
NEW KNIGHT PROFESSIONAL TRANSCRIPTION PLAYER

This new KNIGHT professional grade 78 and 33½ rpm transcription player provides excellent transcription and record playback performance at moderate cost. Ideal for schools, recording and broadcast studios, and advertising agencies. Features a single tone arm with crystal turn-over cartridge, and a multi-range tone control. It plays both standard and micro-groove records, and transcriptions up to 16". The built-in, high-fidelity 10-watt amplifier has a response of +1 db, 50-15,000 cycles.

4-Range Tone Control

Multi-range tone control provides 4 ranges: Bass (accentuated bass); Wide Range (normal bass, attenuated highs to minimize needle scratch); Extended Range (flat response for general use); and Brilliant (accentuated bass and treble, to compensate for certain types of records). An important feature is the separate microphone channel, which permits announcements to be mixed or faded with the phono program. This also makes it possible to use the KNIGHT Transcription Player as a medium-coverage, portable public address system. Any high-impedance crystal or dynamic microphone may be used. A Jensen-10" PM speaker is mounted in the removable case cover, permitting its use at a distance from the player. Speaker cable and plug are supplied. The turntable is driven by one of two separate, constant-speed, synchronous motors. A single control selects the proper one for the speed desired. Other controls include Volume, Tone, On-Off Switch. Plywood case is covered in durable airplane cloth. Size: 18½" W, 12¼" H, 20¼" D. Has record compartment. With tubes, crystal cartridge with dual stylus, and instructions. For 110-120 volts, 60 cycle AC, 85 watts. U.L. Approved. Wt., 50 lbs.

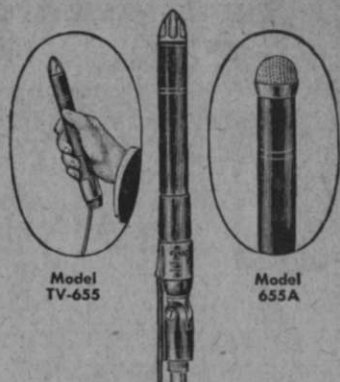
96-131, NET.....97.50
9.75 down, 7.75 monthly for 12 months.



ELECTROD "TEL-O-PATCH"

A complete telephone patch system for amateur radiotelephone stations. Invaluable for direct, sure, point-to-point traffic-handling during disasters and emergencies. Involves no direct connection to telephone. Two-way transfer of speech is accomplished efficiently by magnetic pickup. Transmitter send-recv switch automatically transfers TEL-O-PATCH from output of receiver to high-impedance microphone input on the transmitter. To use, simply lay telephone handset in cradle of unit. Does not affect normal operation of telephone. Requires no external power. Output impedance (from receiver) is 4 to 250 ohms; input impedance (to transmitter) is 25,000 ohms, or equal to average crystal microphone. Input level, -50 db. Response, 200 to 5000 cycles. Phase control adjusts inductor for proper magnetic pickup level. Has twisted pair cable to receiver and shielded lead to transmitter microphone input. Has built-in matching transformer. Constructed of durable cast metal alloy with black baked enamel finish. Overall size, 10½x5¼x4". With instructions. For cradle phones only. Shpg. wt., 3 lbs.

99-479, NET.....10.29



Model TV-655

Model 655A

NEW ELECTRO-VOICE DYNAMIC MICROPHONE FOR TELEVISION USE

The TV-655 is a completely new type of microphone. Designed primarily for use in TV studios, it also is ideal for broadcast work, including special events programs, sportscasts, audience participation shows, etc. Its slim, trim lines and small size permit the performer to stand behind it—and still be visible to the video or studio audience. It is a remarkably compact, true dynamic mike, and requires no additional auxiliary equipment.

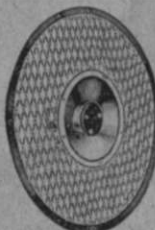
Wide-Range Response

Response, +2.5 db, 40-15,000 cps. Output, -53 db. Has omnidirectional, polar pattern, becoming slightly directional at extremely high frequencies. Features the exclusive E-V Acoustalloy Diaphragm. Withstands high humidity, temperature extremes, corrosive effects of salt air—and severe mechanical shocks. Magnetic circuit uses Alnico V and Armo magnetic iron. All parts precision ground. Firm swivel permits vertical tilt through 180 degree angle, yet prevents unexpected tilting; large bearing surfaces give smooth, firm action. For solid upright stand mounting, or for hand use, swivel may be removed. Case is lathe-turned, high-tensile aluminum, finished in satin black Alumilite (prevents reflections when used in telecasting). Impedance, 250 ohms (easily changed to 50 ohms at internal terminal strip). Has Cannon XL-3 connector inserted in cable 6" from mike. Stand couplet; ¼" pipe thread provided on both mike and swivel. ¼" pipe thread to ¾"-27 thread adapter also furnished. Supplied with 20 ft. top-quality, shielded, broadcast type cable. Size: With swivel, 11½" long; without swivel, 8¾" long. Diameter, 1¾". Shpg. wt., with swivel, 1¼ lbs.

99-580, List, \$200.00. NET.....117.60

Model 655A. As above, but with acoustically treated, "pop-proof" wire mesh grille head. Stops wind and breath blasts. Eliminates wind rumble in outdoor pickup. 1¼ lbs.

99-579, List, \$200.00. NET.....117.60



MASCO MODEL HFT-100 HI-FREQUENCY TWEETER UNIT

Tweeter unit for obtaining distortionless high-frequency response. Consists of a high-frequency tweeter supported on a 12" metal screen. Enriches and enhances tonal quality of high-fidelity sound systems by extending response of single cone speakers to beyond 15,000 cycles. Requires no filter or cross-over network. Can be easily installed on face of any 12" speaker without taking up extra room or requiring any unsightly cabinet cut-outs. Rating, 8 watts. Can be used with any 12" speaker having from 3.2 to 16 ohms impedance. Depth, 2¾". With complete instructions. Shpg. wt., 3 lbs.

95-204, List, \$24.50. NET.....14.40

New Releases

THE NEW KNIGHT "SCOUT"



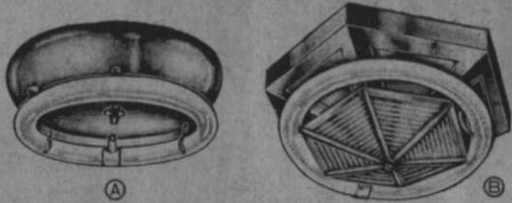
RADIOACTIVITY DETECTOR KIT

Here's a low-cost radioactivity detector kit that anyone with some previous kit-building experience can assemble in one evening! Use it to cash in on big Government rewards for finding radioactive mineral deposits. Use it in the classroom; provides knowledge that lectures alone cannot supply. It's a portable tube "Geiger counter" that detects radiation from uranium, pitch-blende, radium, etc. It detects the presence of gamma rays, cosmic rays, and the "Scout" is very easy to use.

certain types of X-rays. Light, compact. Operator merely carries it at his side, and listens for the tell-tale signs in the headphones. When a radioactive source is approached, the clicking sound increases in frequency. The "Scout" also may be used for safety checks in radiation labs. It uses a sensitive Geiger-Mueller tube, along with built-in amplifier and regulated high-voltage vibrator supply. Kit is supplied with some parts pre-mounted, including tube sockets, tie strips, Off-On switch, and phone jack. Chassis is formed, and has battery compartment. Aluminum case features riveted construction, is very lightweight. Has strong leather handle. Uses Raytheon CK522-AX amplifier and CK-1027 rectifier. Supplied complete with all tubes, parts, and 2 flashlight batteries. Instruction manual includes several pictorial diagrams, keyed to the step-by-step instructions, plus schematic diagram. Sizes: 7 1/4 x 4 1/2 x 2 1/4". Less headphones, wire and solder. May be used with any headphones of 2,000 ohms (or higher) impedance. Shipping weight, 4 lbs.

83-555. NET **24.95**
Trimmed Acme Dual Headphones, 2,000 ohms impedance. Wt., 8 oz.
59-070. NET **1.62**

NEW CIRCLINE FLUORESCENT FIXTURES



COMPCO MODEL 665 FLUSHMOUNT—FIG. A

Low-cost, attractive fixture, with "instant-start" feature. Light flashes on immediately without annoying flicker. Provides clear, non-glaring light—equivalent to 100-watt incandescent bulb. Made of steel, finished in washable white "Glazemast." Lamp securely held by spring clips. U. L. Approved. With 12" diameter, 32-watt circline lamp. Wt., 9 lbs.
91-278. List \$9.00. NET EACH 5.73.
Lots of 3, EACH **5.29**

HOMECRAFT MODEL M-2—FIG. B

A new-type fixture that combines 2 standard 60-watt incandescent bulbs with 1 twelve-inch diameter, 32-watt circline fluorescent lamp. Offers best features of both types of lighting: instant-starting incandescent light, and clear, non-glaring fluorescent light. Shade and canopy blend harmoniously. Attractively designed, sturdily built. Lustrous triple-chrome finish. Complete with circline 32-watt lamp, but less incandescent bulbs. Shipping weight, 8 lbs.
91-290. List \$19.95. NET EACH 13.69.
Lots of 3, EACH **12.32**
91-271. 32-watt circline fluorescent bulb. NET **1.95**

ICA GLO-TENNA

The Auto Antenna that Glows In the Dark



Here's a sensational auto antenna—a quality 2-section aerial that glows like a beacon! An ingenious pilot light built into the base illuminates the entire antenna, providing a 24" shaft of soft light. In the daytime, the 2 top discs glow with bright red color. Replaces any fender or cowd mount antenna. Easily connected to parking light or dash light circuits. May be connected to ammeter, with separate switch, if desired. Made of chrome-plated Admiralty brass. Extends to 48". Rust and rattle-proof. Serves as excellent safety parking light. Shpg. wt., 2 lbs.

NET **4.09**
Lots of 10, EACH **3.38**

97-041. List \$6.95



TEC 5-504A TV BOOSTER

New, wide-band, all-channel TV booster, recommended by a nationally known consumer products research organization. Low cost and ease of operation make the "Tec" 5-504 TV Booster a "Best Buy." Elimination of individual channel tuning circuits makes possible the use of just one control: Off-Hi Band-Low Band. TV channels are selected at the TV receiver only. Once the "Tec" is turned on, it does not have to be touched unless the operator switches from the low TV band to the high band, or vice versa. Requires no channel tuning at the "Tec." Provides uniform response and high gain (20 db) on all channels. Excellent signal-to-noise ratio. In areas where both strong and weak TV stations exist, the "Tec" booster may be by-passed for the strong stations by merely turning the switch to "Off." This connects the antenna directly to the TV receiver. Finished in mahogany. Size: 8 1/2 x 4 x 5 1/4". With 3 tubes and selenium rectifier. Matches 300 ohm receiver inputs. Wt., 4 lbs.

97-232. List \$37.50. NET **22.05**

WILLARD RECHARGEABLE BATTERIES

For Portable Radios



Type 25-2. Supplies 2 volts for 26.5 ampere hours. Size, 2 1/2 x 6". Has receptacle type plug-in terminals. Original equipment in G-E Model 250. Shpg. wt., 3 1/4 lbs.
98-023. List \$8.95. NET **6.84**

Photoflash Battery

Type ER-6-2B. Supplies 2 volts for 6-amp hours, 125 to 250 flashes per cycle of charge. Non-spillable polystyrene case has built-in charge indicator. Size, 2 1/4 x 2 x 4". For 2-volt power supplies. Can be used in series when higher voltages are required. Shpg. wt., 1 1/2 lbs.
98-024. List \$6.60. NET **4.59**



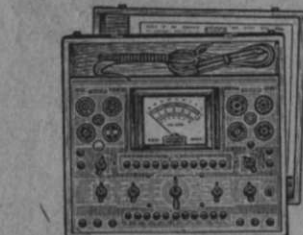
ANTENNA LOOP ASSORTMENT 5 Popular Types

Here's a terrific value in loop antennas for replacement use. You get an assortment of 5 popular types for only 69¢! Save money and time by having this excellent assortment on hand. There's nothing like having the antenna you need for that repair job—right in your stock. All are brand new. Shpg. wt., 2 lbs.
58-116. NET. Per Assortment of 5 **69c**



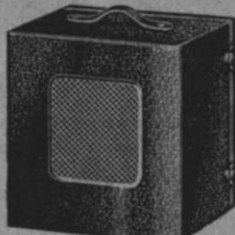
NEW TELEVISION 5-IN-1 STRIPPING TOOL

New 5-in-1 television twin lead tool. Notches, strips and cuts all 300 ohm flat polyethylene. Ideal for use on factory production line for processing twin lead. Also pinch-closes screw-eye insulators and acts as handle for driving screw-eyes into mortar, wood, etc. Made of quality tempered tool steel. May be sharpened many times. Has comfortable grip. Fits into tool pouches. Length overall, 6 1/2". Shpg. wt., 1 lb.
46-066. NET **2.45**



JACKSON 637 TUBE AND SET TESTER AT NEW LOW PRICE

A great value in a combination instrument! A dynamic output tube tester, plus complete universal meter ranges. Automatic push-button range selector greatly speeds servicing. Filament selection—from 1/4 to 115 volts. Tests all popular tubes—including bantams, loctals, single-ended, high-voltage filament types and miniatures. Provision for adding new tube-testing functions keeps unit modern and is only one of the many ways in which the 637 is protected against obsolescence in every design feature. Tube condition is read directly on "GOOD-BAD" scale. Has ballast tube, noise and condenser checker. Ranges: AC volts—0-10-100-250-500-1000-2500; DC volts—0-10-100-250-500-1000-2500; decibels—from -10 to 14, 10 to 34, 30 to 54; DC ma—0-1-10-100-250; DC amps—0-10; ohms—0-3000-300,000 and 0-30 megohms. Sturdy wood case with black leatherette covering. 14 1/2 x 13 1/2 x 5". Gray panel. With battery and test prods. Shpg. wt., 20 lbs. Quantity limited!
84-470. SPECIAL PRICE **69.50**



PORTABLE SPEAKER CASE VALUE

An excellent bargain value in a well-built speaker carrying case. For 8" speakers. Made of select plywood, covered with durable, brown simulated leather. Will withstand the rough handling of years of portable use. Speaker opening is fitted with flocked metal screen in handsome contrasting color. Removable cover has sturdy snap-type trunk clasps. Speaker opening on one side only for single speaker mounting. Large enough to house a small amplifier in addition to the speaker. 13 1/2 x 10 1/2". Shpg. wt., 9 lbs.
93-602. NOW ONLY **3.75**

RADIO-PHONO SPECIAL VALUES



KNIGHT RADIO WITH 3-SPEED PHONO

Quality radio-phonograph that offers full broadcast band coverage plus complete record reproduction in a distinctive table model cabinet. Single-play phono handles all present records—33 $\frac{1}{3}$, 45, or 78 rpm—in 7", 10", or 12" sizes. A special spindle adapter is furnished for use with 45 rpm records.

KNIGHT Quality Features. Includes: Alnico V PM speaker; illuminated slide rule dial; rugged three-speed motor; single tone arm with one universal .002" needle to play all records; automatic volume control. Has flexible wire indoor antenna. Modern superhet circuit uses: 1—12SA7GT, 1—12SQ7GT, 1—50L6GT. Rectifier is 35Z5. Handsome walnut-finished hardwood cabinet. Overall size, 12 $\frac{1}{2}$ x7 $\frac{3}{4}$ x10". For operation from 110-125 volts, 60 cycles AC. Complete with all tubes. Shpg. wt., 12 lbs.

4G-420. NET EACH, 31.85.

LOTS OF 3, EACH.....

30.45



RADIO-PHONO WITH 45-RPM PHONO

Made to sell at \$69.95, this compact portable radio-phonograph is now being offered for only \$37.50! A special purchase by ALLIED makes this great bargain possible. Due to the special low price we cannot reveal the nationally known manufacturer, but you'll be surprised and delighted when you see the name on the set.

Outstanding Features. Can be carried anywhere—weighs only 12 lbs. Consists of a powerful superhet radio that tunes all standard broadcasts from 535 to 1620 kc—plus the unique 45 rpm changer—"world's fastest changer"—developed by R.C.A. Plays stack of eight records; last record repeats. Has Alnico V PM speaker; built-in loop antenna. Modern Circuit: 1—12BE6, 1—12BA6, 1—12AT6, 1—50C5. Rectifier is 35W4. Russet-brown leatherette-covered case, only 10 $\frac{1}{2}$ x7x13 $\frac{1}{2}$ ". For 110-120 volts, 60 cycles AC. With all tubes crystal cartridge, and .001" needle. Shpg. wt., 16 lbs.

96-268. List, \$69.95. NOW ONLY.....

37.50



**COMPACT V-M MODEL 100A
3-SPEED PHONOGRAPH**

Here's a 3-speed phono for only \$22.17! A product of famous V-M engineering—offering outstanding record reproduction for such low cost! This quality phonograph plays all types of records—7", 10", or 12", at all three speeds. There's nothing more to buy—unit is complete with amplifier and Alnico V PM speaker.

Quality Features

Phonograph has a dependable, constant-speed motor with rim-drive to the turntable at all three speeds, 33 $\frac{1}{3}$, 45, and 78 rpm. Plays all records singly. Single tone arm has latest type crystal cartridge which uses the new single, .002" needle to play all records. Continuous tone control for choice of natural or bass tone emphasis, plus volume control. Housed in handy table-top cabinet of brown steel. Overall dimensions: 11 $\frac{1}{4}$ " wide, 5 $\frac{1}{4}$ " high, and 12 $\frac{1}{2}$ " deep. Complete with all tubes. For operation on 110-120 volts, 60 cycles AC. With 6-foot line cord and plug. Shpg. wt., 14 lbs.

96-299 List, \$31.50. NET..... 22.17



**V-M MODEL 975 PORTABLE PHONO
WITH 3-SPEED AUTOMATIC CHANGER**

Here is the new V-M model 950 Tri-O-Matic described on page 37, enclosed in a carrying case, and equipped with its own amplifying system. Plays twelve 7" (33 $\frac{1}{3}$ or 45 rpm); twelve 10" or ten 12" (33 $\frac{1}{3}$ or 78 rpm). Any ten 12" or 10" records of the same speed can be played inter-mixed. Reproduces with excellent tone quality.

Ready to Operate

There's nothing more to buy. Unit is complete, ready to operate with dual-needle turnover cartridge. V-M's exclusive flat air cushion drop assures gentle handling of records. Motor automatically shuts off after last record is played. Speaker is 4x6" Alnico V type for wide-range tone response. Amplifier uses two tubes and a selenium rectifier for instant warm-up. Includes volume control and tone control for selection of treble or bass response. All-wood carrying case, finished in beautiful tan leatherette, 14 $\frac{1}{2}$ x9x17". For 110-120 volts, 60 cycles AC. Shpg. wt., 26 lbs.

96-365. List, \$69.95. NET..... 45.93



**KNIGHT PORTABLE 3-SPEED
PHONOGRAPH PLAYER**

Another KNIGHT feature value! A complete portable phonograph of latest design at a low, money-saving price! This compact unit plays all present types of records—33 $\frac{1}{3}$, 45, or 78 rpm—in 7", 10", or 12" sizes. Speed change-over is extremely simple—a single lever instantly selects the desired speed (either 33 $\frac{1}{3}$, 45 or 78 rpm).

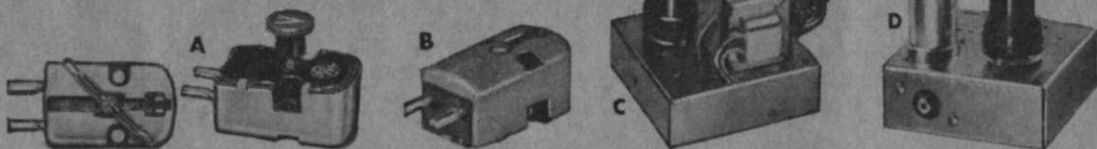
KNIGHT Quality Features

This phonograph plays all records (78, 33 $\frac{1}{3}$ and 45 rpm) singly. Supplied with special spindle adapter for 45 rpm records. Single tone arm has crystal cartridge which uses new single, .002" needle to play both standard and micro-groove records. Quality amplifier and Alnico V PM speaker provide splendid reproduction. Has combination On-Off switch and volume control. Light brown simulated alligator leather case. Extremely compact—weighs only 10 lbs. Size: 12 $\frac{1}{2}$ " wide, 6 $\frac{1}{4}$ " high, 10 $\frac{1}{2}$ " deep. Complete with 6-ft. cord and plug. For operation from 110-125 volts, 60 cycle AC. Shpg. wt., 12 lbs.

96-279. NET..... 23.95

LATEST 3-SPEED PHONOGRAPHS—COMPLETE WITH AMPLIFIER AND SPEAKER

FAMOUS G.E. PHONO COMPONENTS



GENERAL ELECTRIC VARIABLE RELUCTANCE CARTRIDGES AND PREAMPLIFIERS

"TRIPLE-PLAY" CARTRIDGE

Fig. A. RPX-050. Now—a single G.E. variable reluctance cartridge to play all modern records—microgroove standard. Simple to operate. A single twist of the knob on cartridge turns either end of the dual stylus into playing position. New baton type dual sapphire-tipped needle has 1-mil tip for 33 $\frac{1}{3}$ and 45 rpm records. Tip for 78 rpm records has 3-mil radius. Tracks all records with 6 to 8 grams pressure. Requires preamplifier. High compliance and low mass reduce record wear. Unaffected by humidity and temperature. Size, 2 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 1 $\frac{1}{16}$ ". Supplied with short and long knobs to fit most tone arms. With needle, hdwe., instructions. Wt., 4 oz.
65-298. List, \$13.95. **NET..... 8.20**

RPJ-010. Dual-tipped sapphire needle for G.E. RPX-050 cartridge above. Wt., 2 oz.
65-299. List, \$5.95. **NET..... 3.50**

RKP-009. Replacement Parts Kit. For triple-play cartridge. Includes washers, spring and plastic knobs. Shpg. wt., 4 oz.
65-282. List, 25c. **NET..... 15c**

SINGLE-NEEDLE CARTRIDGES

Fig. B. Magnetic cartridges. Virtually eliminate surface noise and needle talk. Require preamplifier. For any pickup with 1/2" mtg. ctrs. Fit W/C 356-27 and 100-27 changer plug-in heads. 1 $\frac{1}{2}$ x 3/4 x 3/16". All have baton type styli. Av. shpg. wt., 4 oz.

RPX-041. Cartridge for 33 $\frac{1}{3}$ and 45 rpm records. Stylus pressure, 6-8 grams. Output, 12 mv. at 1,000 cps. Replaceable .001" sapphire tip needle included.
65-280. List, \$9.95. **NET..... 5.85**

RPX-040. Standard cartridge for 78 rpm records. Stylus pressure, 3/4-1 1/4 oz. Output, 15 mv. at 1,000 cps. With replaceable .003" sapphire tip needle.
65-293. List, \$9.95. **NET..... 5.85**

RPJ-005. Microgroove cartridge replacement needle. Sapphire tip. Wt., 2 oz.
65-281. List, \$3.50. **NET..... 2.06**

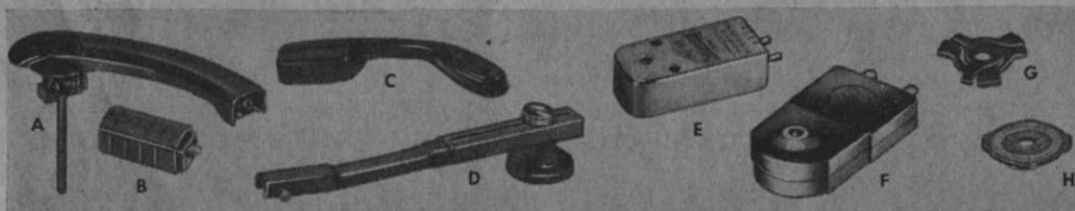
RPJ-001. Replacement needle for standard cartridge. Sapphire tip. 2 oz.
65-295. List, \$3.50. **NET..... 2.06**

PHONO PREAMPLIFIERS

For G.E. variable reluctance cartridges. Increase output to higher level permitting use with any radio or phono amplifier. Built-in equalizing network for proper response when playing standard records. Standard phono receptacle provided on chassis. 12' shielded cable with phono plug is provided for amplifier or receiver connections. Both have 3/4 x 3/4 x 1 1/4" chassis, with Lusteron finish. With diagrams and complete instructions. Easy to install—no special tools required.

Fig. C. UPX-003. Self-powered preamplifier. Includes power transformer and selenium rectifier for operating directly from 110 to 120 v., 60 cycle AC line. Complete with tube. Shpg. wt., 2 1/4 lbs.
65-278. List, \$15.95. **NET..... 9.38**

Fig. D. SPX-001. For use with external power supply. With tube and 15' leads for power take-off from amplifier or radio. Shpg. wt., 1 1/4 lbs.
65-276. List, \$9.90. **NET..... 5.82**



ESSENTIAL PHONO MODERNIZATION COMPONENTS

WEBSTER-CHICAGO PARTS

With components listed below. Webster-Chicago 246-1, 256-1, 346-1, and 356-1 changers can be adapted for G.E. or Pickering magnetic cartridges. If the amplifier or radio with which the changer is used has no preamplifier, select one of the preamps listed above or on page 38. Easy to install. Instructions included with each unit.

Fig. A. 22X084. Pickup Arm. Consists of plastic arm, hinge, and pivot shaft. Less plug-in heads (see below). Shpg. wt., 8 oz.
96-221. List, \$2.50. **NET..... 2.64**

Fig. B. Plug-In Heads. Color-coded heads for use with either G.E. RPX-050 triple-play cartridge or single-needle types RPX-040 and RPX-041. Can also be used for Pickering cartridges described at right. Type 1901 has removable weight for RPX-040 cartridge. Less cartridges, 5 oz.
96-470. Type 1900. Red. **NET..... 73c**
96-469. Type 1901. Brown. With removable weight. **NET..... 88c**

V-M ARM FOR G.E. CARTRIDGE

Fig. C. Tone arm for accommodating the G.E. RPX-050 triple-play cartridge (described above at left). With this tone arm (plus preamplifier), V-M changers can be adapted for playing all records with the high-fidelity G.E. magnetic cartridge. Replaces tone arms in V-M changer models 402, 403, 406, and 4060. Drilled for knob shaft of RPX-050 cartridge. Decal markings, "33-45" and "78." Has leads with pin jacks, and new counter-balancing spring. Bakelite construction, with attractive walnut finish. Shpg. wt., 6 oz.
96-402. **NET..... 2.25**

CLARKSTAN PRODUCTS

Fig. D. Trionic Transcription Arms. Professional pickup arms for standard and micro-groove records. 16" model for records up to 17"; 12" model for 16" and 12" records. Take any cartridge 3/4" wide or less. Slide-in cartridge holder, with thumb-screw. Silver-plated, spring-loaded plungers maintain positive electrical contact. Stylus pressure easily adjustable from 5 grams up. Height adjustable from 1 1/16" to 2 3/16" above base plate. Cast aluminum, gray wrinkle finish. Shipping weight, 2 lbs.
65-450. Model 212. 16". **NET..... 19.50**
65-457. Model 213. 12". **NET..... 18.52**

Fig. E. Model RV-201 Wide-Range Cartridges. Variable reluctance magnetic type featuring wide-range, low-distortion reproduction. Response essentially flat over the entire audio frequency range. High output. Stylus easily removed. Requires preamplifier. Mtg. ctrs., 1/2". 4 oz.
65-451. For micro-groove records. Has .001" sapphire stylus. Tracks with 5-7 grams force. List, \$25.00. **NET..... 14.70**
65-452. For standard records. Has .003" sapphire stylus. Tracks with 15-20 grams force. List, \$25.00. **NET..... 14.70**

Sapphire Tip Replacement Needles
65-453. Type 251.1. .001" tip.
65-454. Type 251.5. .0025" tip.
65-455. Type 251.3. .003" tip.
 List, Each, \$4.00. **NET EACH..... 2.35**

Other Phono Components

For complete listings of phono equipment, see pages 22-29 and 114 of ALLIED Catalog No. 120.

PICKERING MAGNETIC CARTRIDGES

Fig. F. Top-quality magnetic cartridge for broadcast and professional use. Meets these rigid requirements: frequency response, ± 2 db from 40-10,000 cps; waveform distortion, 1% max.; output, 70 mv, ± 2 db; tracking pressure, 15 grams max. at 40 and 10,000 cps. Fit most tone arms; for mounting in Webster-Chicago units, see listing of clips below. Av. shpg. wt., 4 oz.
65-288. S-140S. With permanent .001" sapphire stylus for micro-groove records. List, \$25.00. **NET..... 15.00**

65-283. R-150. For 78 rpm records. Uses replaceable stylus below. **9.90**
 Less stylus. List, \$16.50. **NET..... 9.90**
65-284. S-30. .003" sapphire stylus for R-150 cartridge above. **2.40**
 List, \$4.00. **NET..... 2.40**

Mounting Clips. For mounting Pickering magnetic cartridges in Webster-Chicago Model 256-27, 356-27 and 100-27 record changers. Weighted. Shpg. wt., 2 oz.
65-297. For S-140S cartridge.
65-296. For R-150 cartridge.
 List Each, 25c. **NET EACH..... 15c**

SPIDERS FOR 45 RPM RECORDS

Metal and fibre adapters for 45 rpm records. Snap into center hole of records to permit playing on small spindles. Can be used with changers or single-play phonos.
Fig. G. Fibre Spiders. In packages of 12. Shpg. wt. per pkg., 3 oz.
96-244. **NET PER PKG..... 25c**
Fig. H. Metal Spiders. In packages of 10. Shpg. wt. per pkg., 6 oz.
96-471. **NET PER PKG..... 31c**

NEW V-M TRI-O-MATIC RECORD CHANGERS



Play 33 1/3, 45 and 78 rpm Records Automatically

Completely new series of V-M Changers—100% automatic in operation. Set-down selection is automatic for all sizes of records. Combination "feeler" arm and button automatically adjust tone arm for proper set-down, regardless of the size of the record. All you have to do is load the records on the spindle, select the proper speed, and flip the switch to "On." The tone arm will unfailingly come down into the lead-in groove of the record. Another new feature is elimination of an extra control for manual operation. Completely jamproof—tone arm can be held at any time during operation without damage to the cycling mechanism. The tone arm comes to rest and the motor shuts off—after the last record is

played (on all sizes of records). Load capacity is twelve 10" or ten 12" (33 1/3 or 78 rpm); twelve 7" (33 1/3 or 45 rpm), 10" and 12" records of the same speed can be played intermixed. V-M's exclusive "flat air cushion drop" assures gentle, safe dropping of records to the heavily flocked turntable. Available with crystal "turn-over" cartridge or the G.E. triple-play cartridge. Models 955 and 955GE are complete, ready to use. Models 950 and 950GE are supplied less cables and plugs; require following minimum mounting space: 14 1/2" W, 12 1/4" D, 5 1/4" above and 2 1/8" below plate. Power drain 18 watts. For operation from 105-125 volts, 60 cycle AC. Shpg. wt. less base, 12 lbs.; with base, 14 lbs. Complete instructions included.

V-M CHANGERS ON METAL BASE

Model 955 V-M Changer. With turn-over crystal cartridge and dual needles; on Hammertone-finish metal base. **96-362. List, \$49.50. NET..... 31.53**

Model 955GE V-M Changer. With G.E. triple-play variable reluctance cartridge and dual needles; on Hammertone-finish metal base. Requires preamplifier (see page 36). **96-364. List, \$52.75. NET..... 33.59**

V-M CHANGERS WITHOUT BASE

Model 950 V-M Changer. With turn-over crystal cartridge and dual needles, less base. **96-361. List, \$44.50. NET..... 28.35**

Model 950GE V-M Changer. With G.E. triple-play variable reluctance cartridge and dual needles, less base. Requires preamplifier (see page 36 of this supplement). **93-363. List, \$49.00. NET..... 31.27**



WEBSTER-CHICAGO DELUXE ALL SPEED CHANGERS



MODELS 356-1 AND 356-27 3-SPEED CHANGERS

The nationally famous 356 series of Webster-Chicago changers. Automatically play one-inch stack of 7", 10" or 12" records at any speed: 33 1/3, 45, or 78 rpm. "Velocity-Trip" mechanism assures quick, fool-proof record-changing with minimum lateral pressure on record grooves. Tone arm comes to rest after last 10" or 12" record is played. Last 7" record is repeated. In "off" position, motor spindle is lifted from the idler rubber tires, preventing development of "flat spots." Size: Base plate, 14 1/4 x 14"; height overall, 8 3/4", 5 3/4" above and 2 1/4" below plate. Available with dual-needle crystal cartridge, or with plug-in heads for use with G.E. and Pickering magnetic cartridges. With 3-ft. phono and AC cables (less plugs), hardware, instructions and mounting template. For 105-125 volts, 60 cycle AC. Drain 18 watts. Shpg. wt., 18 lbs.

Model 356-1. With crystal cartridge and dual needles. **96-450. List, \$51.75. NET..... 32.91**

Model 356-27. With two plug-in heads for G.E. and Pickering magnetic cartridges. Less cartridges and preamplifier (see page 36 for listings). **96-451. List, \$43.00. NET..... 27.31**

Deluxe Portable Carrying Case. For changers described above. Constructed of heavy plywood, covered in two-tone brown simulated leather. Inner dimensions, 14 3/4" W, 9 1/2" H, 14 7/8" D. Height above mounting plate, 6 1/4"; depth below, 3". With motor-board cut-out for 356 series Webster-Chicago changers. Shpg. wt., 15 lbs. **93-614. NET..... 10.75**

Metal Base. For Webster-Chicago 356, 256, and 156 changers. Brown hammered finish. Shpg. wt., 5 lbs. **96-089. NET..... 2.96**

NEW MODELS 100-1 AND 100-27 3-SPEED CHANGERS

This new 100 series of changers replaces the Model 346, companion model to the 356. Automatically play one-inch stack of 7", 10" or 12" records at 33 1/3, 45, or 78 rpm. New "feeler arm" automatically adjusts tone arm set-down for the records stacked on the spindle, regardless of size. Home recordings and inside-out recordings may be played without any special adjustments. Lifting the hold-down arm off the spindle automatically frees the tone arm from the changing mechanism. Retain "Velocity-Trip" feature for fast change cycle and minimum record wear. Tone arm comes to rest after last record is played, regardless of size. In "off" position, motor spindle is lifted from the idler rubber tires, preventing development of "flat spots." Minimum mounting space required; 13 3/8" deep, 13" wide; 6 7/8" above, 2 1/8" below top of mounting board. Available with dual-needle crystal cartridge, or with plug-in heads for magnetic cartridges, including the G.E. triple-play model. For 105-125 volts, 60 cycle AC. Drain, 18 watts. Complete with 3 ft. shielded phono cable and 3 ft. AC line cord (less plugs), all hardware, instructions and template. Shpg. wt., 14 lbs.

Model 100-1. With dual-needle crystal cartridge. **96-453. List, \$46.50. NET..... 29.61**

Model 100-27. With two plug-in heads for Pickering or G.E. magnetic cartridges. Less cartridges and preamplifier (see page 36 of this supplement). **96-454. List, \$37.75. NET..... 24.01**

Metal Base. For above changers and Models 346, 246 and 146. Brown Hammertone finish. Shpg. wt., 5 lbs. **96-029. NET..... 2.93**

For additional record changers, see pages 21 to 24 of ALLIED Catalog No. 120.



45 RPM
RECORD
ATTACHMENTS

AT NEW
LOW PRICES
QUANTITIES LIMITED

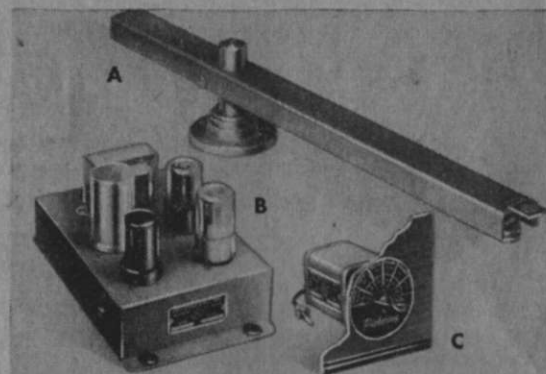
PLUG-IN AUTOMATIC CHANGER. Fig. A. Built by a well-known manufacturer of record changer equipment, this 45-rpm changer features: (1) The same sensationally efficient mechanism developed by RCA. (2) DPDT On-Off Switch, which controls motor and also makes it possible to use additional phonograph, FM tuner, etc. (3) Standard pin plug attached to shielded cable for easy, quick connection to phono input jack of most amplifiers or radios. Plays 8-10 45-rpm records at one loading. Records are changed with amazing speed. Operation is extremely simple. Has crystal cartridge, with substantially flat response from 50-10,000 cycles. Output, .75 volt; needle pressure, 5-6 grams. Constant-speed motor is U.L. Approved. Compact size, 10½x6½x7½". Base finished in Mahogany Hammerloid. Complete with .001" osmium-tipped needle and 6-ft. shielded cable. For 110-120 volts, 60 cycle AC. Shpg. wt., 9½ lbs.

96-311. List, \$26.95. NOW ONLY.....10.95

MANUAL PLAYER. Fig. B. Here's a low-cost, easy way to adapt your present equipment to play 45-rpm records. Easily connects to phono input of any radio or to any amplifier and speaker. Consists of crystal pickup, .001" needle, precision-built motor—and a compact, sturdy wood cabinet, covered with attractive brown leatherette. Has 1½" spindle. On-Off switch. With shielded cable and plug. Size, 10½x4½x7½". For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 5 lbs.

96-257. NOW ONLY.....7.95

QUANTITIES LIMITED! ORDERS SUBJECT TO PRIOR SALE!



PICKERING HI-FI PHONO COMPONENTS

FIG. A. Model 190 Arm. For perfect performance on both standard and micro-groove records up to 16". Minimum vertical mass—tracks with any record. Plug-in cartridge holder. Sensitive tracking force adjustment. Magnetic arm rest. Length, 16½". Less cartridge. Takes Pickering and similar magnetic cartridges. Shipping weight, 2 lbs.

99-830. List, \$40.00. NET.....24.00

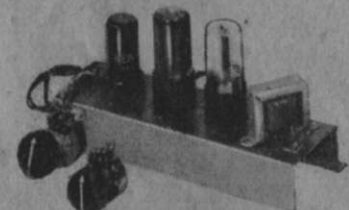
FIG. B. Model 130H Preamplifier. For use with Pickering or G.E. magnetic cartridges. Response, within 2 db, 40-20,000 cycles. Has 6 db-per-octave compensation below 500 cps. High impedance output, 2 volts average. Extremely low distortion. Self-powered. Overall size: 8½x4½x5¼". Less tubes (requires 6SJ7, 6J5, 6X3). For 110-120 volts, 60 cycle AC. Shpg. wt., 3½ lbs.

99-809. List, \$31.25. NET.....18.75

FIG. C. Model 132E Record Compensator. For use between preamp and Pickering or G.E. cartridge. Permits proper equalization for all recording characteristics. Six switch positions: (1) European Records; (2) Victor 45; (3) Victor 78; (4) Columbia-Capitol; (5) Micro-Groove LP; (6) Noisy Records. Instructions. Size: 17½x2x2½". Shpg. wt., 1 lb.

99-808. List, \$16.50. NET.....9.90

For additional listings of Pickering components, see page 36 of this Supplement, and page 27 of ALLIED Catalog No. 120.



KNIGHT AC-DC PHONO AMPLIFIER

With Controls on Extension Cables

Quality designed compact phono amplifier. Complete, ready for immediate installation. The long, narrow chassis is ideal for mounting in portable record changer cases. (Fits 93-611 case, on page 23 of ALLIED Catalog No. 120.) Controls are conveniently mounted on 8" extension cables for flexibility in placement. Include: On-Off-Tone, and Volume.

Supplied 100% Complete

Has connection for using On-Off switch to control phono motor. Chassis is isolated from line—no shock hazard. Supplied 100% complete: With 12SQ7 and 50L6GT tubes, 35Z5GT rectifier, output transformer, knobs, line cord, and full instructions. There's nothing more to buy! Size: 8x4½x3¼". For 110-120 volts, 60 cycle AC, and 110-120 volts DC. Wt., 2½ lbs.

83-075. NET.....6.98



CARBONNEAU "PLAYBOY"

Adapts 78 rpm Equipment for 33½ and 45 rpm Micro-Groove Records

This amazing "Playboy" permits manual playing of all micro-groove records from any 78 rpm record player or changer. It slips over the spindle and rests above the turntable. As the turntable revolves, it drives the "Playboy" idler wheel, which in turn drives one of the 3 corner-wheels that protrude above the "Playboy" base plate. These corner wheels support the record, and spin it at 33½ or 45 rpm. "Playboy" unit is complete with lightweight tone arm, crystal cartridge and .001" needle. Nothing else to buy! Well-built—provides clear, rich tone reproduction from all records. Compact—may be stored with albums in record compartment. Easy to attach—leads clip to phono cartridge without soldering. Shpg. wt., 3 lbs.

96-341. NET.....7.79

PHONO DRAWER SLIDERS

Fig. A. Heavy-Duty Drawer Sliders. Ballbearing, double-extension type, for mounting changers in slide-out drawers. Length, 18". Extend 16". With screws, less mounting board. Shpg. wt., 5 lbs.

86-199. List, \$7.15. NET.....4.20

Fig. B. Webster-Chicago SD30 Drawer Kit. Slide-rails and screws for building slide-out drawers for W/C and other popular changers. Rail length, 14½". Requires mounting board. Shpg. wt., 1½ lbs.

86-198. NET.....95c



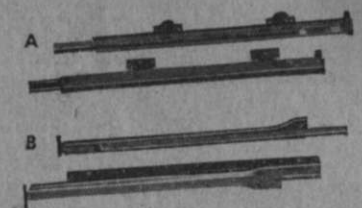
NEW PENTRON BASIC

TAPE RECORDER MECHANISM

High-quality basic tape recorder mechanism for deluxe phono-radio-recorder custom installations. Can be used to record programs right off the air, from records, or to make "live" recordings from microphone. Records for full hour on 1200-ft. reel of tape—30 minutes on each half of the tape width. Recording speed is 7½" per second; rewind speed is unusually fast—20 times faster than recording speed. Other features include simplified tape threading; light weight, compact size; single-lever control for selecting "Record-Play," "Off," "Rewind." Advanced design features provide smooth, dependable performance. Flywheel principle used in capstan drive mechanism assures constant tape speed. Heavy-duty construction throughout. Frequency response is +6 db, 80-6,500 cycles, with recommended circuit. Requires construction of high-gain amplifier with special type of equalization, and bias-erase oscillator. Standard audio amplifiers cannot be used. Supplied with oscillator coil, diagram, parts list, and instructions. Less reels. Parts list is available separately at no charge. Size: 13¼" W, 7" H, 9" D. For 110-120 volts, 60 cycle AC. Shpg. wt., 13½ lbs.

96-360. NET.....59.50

For complete listings of tape recorders and accessories, see pages 2 and 3 of this Supplement, and pages 115 and 116 of ALLIED Catalog No. 120.





JENSEN HIGH QUALITY PHONO NEEDLES

Exact Replacements For All Popular Cartridges

The correct replacement needle for every popular phono cartridge on the market is given in the listings below. Illustrations show actual needle size. *Indicates sapphire tip; all others have osmium tip. Standard tip radius is .003"; microgroove (MG), .001". Average shpg. wt., 1 oz.

FOR ASTATIC CARTRIDGES

Stock No.	Type	Fig.	For Cartridge Numbers	Point	List	NET
65-700	A-80	A	QT, LQ	Std.	\$1.50	.88
65-701	A-80-LP	A	OT, LQ, CQ	MG	1.50	.88
65-702	A-802	B	CQ	All-pur.	1.50	.88
65-703	A-81*	C	QT, LQ	Std.	2.50	1.47
65-704	A-81-LP*	C	OT, LQ, CQ	MG	2.50	1.47
65-705	A-84	D	GC-78	Std.	1.50	.88
65-706	A-84-LP	D	GC	MG	1.50	.88
65-707	A-86	E	LT, LTD, MD	Std.	1.50	.88
65-708	A-86-LP	E	LTD	MG	1.50	.88

FOR SHURE CARTRIDGES

Stock No.	Type	Fig.	For Cartridge Numbers	Point	List	NET
65-709	JP-30	F	P30, P57, P70, P74AD (Admiral), P76, P77, P79, P88, P89, P94, P930, W22, W23, W40, W41, W42, W60, W61, W65	Std.	1.50	.88
65-710	JPS-30*	G	Same as above	Std.	2.50	1.47
65-711	JP-30-LP	H	P73, P74AD (Admiral), P76, P77, P79, W21, W22	MG	1.50	.88
65-712	JPS-30-LP*	I	Same as above	MG	2.50	1.47
65-713	JP312	J	P37, P71, P81	All-pur.	1.50	.88

FOR WEBSTER-ELECTRIC CARTRIDGES

Stock No.	Type	Fig.	For Cartridge Numbers	Point	List	NET
65-714	W-02	K	M1	Std.	1.50	.88
65-715	W-05	L	F14, F14-1, F14-2, F14-3, F14-4	Twin	2.50	1.47
65-716	W-14*	M	A1, A8	Std.	2.50	1.47
65-717	W-15*	N	A1, A2, A3, A4, A5, A6, A8	MG	2.50	1.47
65-718	W-16	M	A1M, A1M-1, A3M, A6M	Std.	1.50	.88
65-719	W-17	N	A1M, A1M-1, A2M, A5M, A6M	MG	1.50	.88
65-720	W-30	U	O1	Std.	1.50	.88
65-721	W-412	T	A9, F13, Q3	All-pur.	1.50	.88
65-722	W-422	S	C9	All-pur.	1.50	.88
65-723	W-49	R	Q2	Std.	1.50	.88
65-724	W-72	Q	F16, F16-1, F16-2	Std.	1.50	.88
65-725	W-73	P	F16, F16-1, F16-2	MG	1.50	.88
65-726	W-81	O	F15, F15-1	Std.	1.50	.88
65-727	W-82	P	F15, F15-1	MG	1.50	.88
65-728	15-LP	O	F7, F7-1, F7-2, O-2, F13	MG	1.50	.88
65-709	JP-30	H	F10, F11, F11-1	Std.	1.50	.88
65-710	JP-30-LP	H	F11, F11-1	MG	1.50	.88

FOR ELECTRO-VOICE CARTRIDGES

Stock No.	Type	Fig.	For Cartridge Numbers	Point	List	NET
65-729	E-90*	V	H12-S, L12-S, M12-S	Std.	2.50	1.47
65-730	E-90-LP*	V	14-S, 22-S, 34	MG	2.50	1.47
65-731	E-91*	W	16TT, 22TT	Twin	3.50	2.06
65-732	E-93	X	16TT, 22TT	Twin	2.50	1.47
65-733	E-95	Y	H12, L12, M12	Std.	1.50	.88
65-734	E-95-LP	Y	14, 22, 34, L14	MG	1.50	.88
65-735	E-962	V	130	All-pur.	1.50	.88

FOR WEBSTER-CHICAGO CARTRIDGES

Stock No.	Type	Fig.	For Cartridge Numbers	Point	List	NET
65-736	NE-215	Z	21P247, 21P402, 21P403	Twin	4.00	2.35
65-737	NE-368	AA	21P404	Twin	4.00	2.35

FOR MAGNAVOX CARTRIDGES

Stock No.	Type	Fig.	For Cartridge Numbers	Point	List	NET
65-738	M-02	BB	560101	Std.	1.50	.88
65-739	M-46	CC	560133	Twin	2.50	1.47

FOR RCA CARTRIDGES

Stock No.	Type	Fig.	For Cartridge Numbers	Point	List	NET
65-740	M-70*	DD	70338, 70339, 72551	Std.	3.95	2.32
65-741	M-71	EE	9890 (Magic Tone Cell), 39919, 39550, 38598, 70332, 39851	Std.	2.00	1.18
65-858	M-70-LP*	DD	74067	MG	2.25	1.32
65-743	M-71-LP*	EE	74067	MG	2.00	1.18

FOR PHILCO CARTRIDGES

Stock No.	Type	Fig.	For Cartridge Numbers	Point	List	NET
65-744	M-60-LP*	FF	Columbia & Philco 45-1609	MG	1.50	.88
65-745	PH-10*	GG	Dynamic Reproducer	Std.	2.25	1.32
65-746	PH-11	HH	45-1609	MG	1.50	.88
65-747	PH-12	II	76-4649	Twin	2.50	1.47

KNIGHT SAPPHIRE NEEDLE SPECIAL—WHILE THEY LAST

Here's a top-quality, popular-priced phono needle—offered while our limited stocks last at the sensational low price of only 49¢! Provides fine record reproduction up to 5,000 plays. Fits practically any phono cartridge for standard 78 rpm records; .003" sapphire-tipped. Shpg. wt., 2 oz.



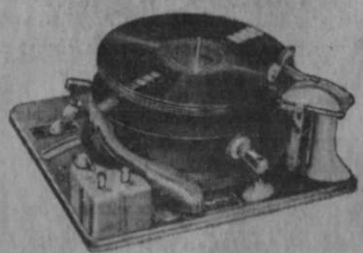
65-837, 10 for 3.50. EACH **49¢**



LYRIC RECORD CARRYING CASES

Provide safe, convenient storage of records. Sponge rubber bottom cushion assures positive protection against breakage. Ideal for carrying records to parties and picnics, or for home use. Each has numbered tab index and dividers for easy location of any record. Sturdy lightweight metal case is finished in brown and beige simulated leather; has sturdy snap-lock, leather handle and rubber feet. Shpg. wt., 7 lbs.

- 96-897, Model 44. Holds 50-7" records. 7 1/2 x 10 1/4 x 3 3/4". List \$3.95. **2.37** NET.....
- 96-894, Model 43. Holds 50-10" records. 10 1/2 x 10 1/4 x 6 1/4". List \$6.50. **3.90** NET.....
- 96-898, Model 46. Holds 35-12" records. 12 1/2 x 12 1/4 x 4 1/4". List \$6.95. **4.17** NET.....



MARKEL PLAYMASTER

Three-Speed Sequence Record Changer

Here's a deluxe 3-speed changer that not only plays all 3 sizes of records automatically—but also plays one or both sides of all 10" and 12" records, continuously—in sequence. Stack of twelve 12" LP records provides 9 hours continuous entertainment! When set to "both sides," tone arm plays first side from below, then drops to turntable, and second side is played in normal manner. Uses 2 plug-in crystal cartridges. Output, .5 volts. 10" ball-bearing mounted turntable. On 10" and 12" records, motor automatically shuts off after last record. On 7" records, last one is repeated. Jam-proof design; arm may be handled during cycling without damage to mechanism. Needle pressures: 15 grams (78 rpm), and 6 grams (micro-groove). Attaches to any radio or amplifier. With 2 plug-in cartridges, hardware and instructions. Base plate, 15 1/2 x 14 1/4"; 10" high. For 115 volts, 60 cycle AC. Shpg. wt., 22 lbs.

- 96-251, Model 74. List, \$99.50. **63.39** NET.....
- 96-252, Model 75. As above, but on steel base with wood finish. Wt., 24 lbs. List, \$109.50. **69.76** NET.....

Playmaster Replacement Needles

- 65-906, C-1. Standard. Osmium-tip, .003". **88¢**
- 65-907, C-3. MG. Osmium-tip, .001". **88¢**

THE PICKERING 180L LOUDSPEAKER

An outstanding new-type sound re-producer system, recently developed by Pickering, one of the foremost manufacturers of quality magnetic pickups. The 180L consists of a matched speaker and baffle, with adjustable bass release port at rear. It provides wide-range, low-distortion reproduction.

Natural Tone Quality

8" PM speaker is located at top of 48" high baffle, assuring a natural tone quality. Response is free of peaks and distortion—no "listener fatigue" to mar enjoyment of good music!

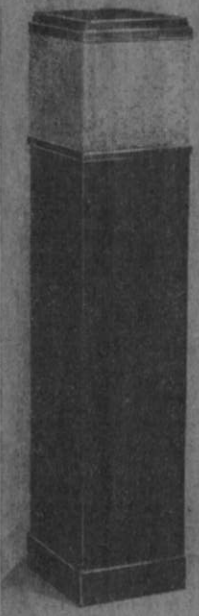
Technical Specifications

Frequency response is smooth over the entire range of 45-12,000 cycles. Coverage (included angles): 90° in horizontal plane, 60° in vertical plane—when located in a corner. Voice coil impedance, 8 ohms. For best results, the 180L should be used with a high-fidelity amplifier. Capacity, 10 watts, continuous.

Attractive Design

Simple lines and "pillar" design combine to make this unique speaker system an attractive furniture piece. Selected mahogany veneers are hand-rubbed. Only 10" square, it occupies far less space than any conventional speaker cabinet. Shpg. wt., 25 lbs.

81-401. NET..... 89.70



NEW BELL "SOUND FOUNTAIN" SPEAKER

This new speaker brings to music lovers a new experience in sound reproduction. It uses a 60" plastic tube to provide an extra-large sound radiating area, with resultant diffusion of sound not possible with ordinary speakers which confine sound to a path or beam.

1500 Sq.-Inch Radiating Area

In contrast to the small area provided by a conventional 8" speaker, the "Sound Fountain" has a radiating area of more than 1500 square inches. Back pressure of the speaker cone inside the plastic tube sets in motion a column of air, resulting in wider radiation angles, especially at the low frequencies.

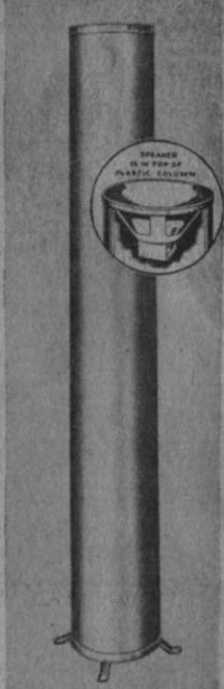
Specifications

The column is 60" high overall. Diameter is 8 3/4". The speaker is a 10-watt 8" PM dynamic, mounted at the top of the column. The plastic is neutral gray, and can be painted to match surroundings.

Mounting Versatility

The "Sound Fountain" may be mounted in a corner, or attached to wall or ceiling (4 brackets are supplied for this purpose). Thus installed, the unit occupies a minimum of space. Ideal for the den or playroom. Shpg. wt., 15 lbs.

81-248. List, \$40.00. NET..... 23.52



ALTEC-LANSING HIGH-FIDELITY SPEAKERS

Altec-Lansing, famous manufacturer of speakers used in over one-third of the theaters in the U. S., offers a line of dual-frequency range speakers that provide excellent high-fidelity reproduction.

MODEL 600B. Fig. A. 12" Dia-cone speaker with Alnico V magnet. Employs a high-frequency, aluminum alloy diaphragm and a low-frequency, seamless molded cone, mechanically coupled and driven by a large 3" voice-coil. Mechanical crossover at about 2,000 cps. Handles 20 watts with full efficiency. Voice coil impedance, 8 ohms. Shpg. wt., 20 lbs.

95-054. List, \$54.24. NET..... 40.77

MODEL 603B. Fig. B. 15" multi-cell, high-fidelity speaker with Dia-cone construction described above. Multi-cellular horn distributes high-frequencies over 60° horizontally and 40° vertically. Rated at 25 watts. V.C., 8 ohms. Shpg. wt., 30 lbs.

95-053. List, \$84.00. NET..... 63.00

MODEL 604B. Fig. C. The finest single unit 15" coaxial speaker available regardless of price. Will provide a surprisingly natural reproduction of music. Multi-cell PM Duplex. Six-cell high-frequency horn coaxially mounted with low-frequency cone. Combined units cover from 30-16,000 cps with essentially flat response. Delivers 60° horizontal and 40° vertical distribution. Includes N-1000B network. Furnishes 1000-cps crossover for separate excitation of each unit. Rated, 30 watts. Imp., 16 ohms. Dia., 15 3/8"; depth, 11 1/2". Shpg. wt., 57 lbs.

95-057. List, \$190.67. NET..... 143.00

MODEL 400B DIA-CONE SPEAKER

Has greater efficiency than ordinary 8" speakers due to the use of an extra large Alnico V magnet which provides higher flux density. Uses Dia-cone principle of high-frequency reproduction from a metal diaphragm. One of the finest of small sized speakers available. Meets all high-fidelity requirements where space is a factor. Its light weight makes it ideally adaptable for portable uses. Frequency response: 40-10,000 cps. Power rating, 12 watts. Impedance, 8 ohms. Shpg. wt., 11 lbs.

95-058. List, \$25.75. NET..... 19.31



STEPHENS "TWEETERS" AND "WOOFERS"

Fig. A. "Hy-Son" 107 Tweeter. Extends high-frequency reproduction of existing single-cone speakers. Range, 3500-25,000 cycles; response, ±3 db to 15,000 cps. Impedance, 16 ohms. Voice coil diameter, 1". High frequency horn is a 2x4 cell, 40x80° unit. Capacity, 20 watts of program material, or 5 watts steady tone. Size: Driver only, 3 1/2" diameter, 2 1/2" deep; with horn attached, 7 1/2" deep overall. With driver, horn and crossover network. Shpg. wt., 6 1/2 lbs.

81-688. List, \$50.00. NET..... 36.75

Model HF. High-frequency attenuator. Permits adjustment of high-frequency response. Shpg. wt., 1 lb.

81-689. List, \$5.00. NET..... 3.67

Fig. B. LOW-FREQUENCY DRIVERS. "Woofers" for efficient reproduction of the low frequencies. Should be used with a good high-frequency tweeter and cross-over network, such as the Stephens "Hy-Son" listed above. Such a combination tweeter-woofer system provides outstanding reproduction of the full audio range.

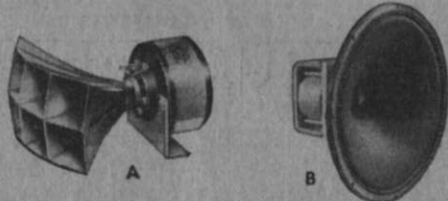
Model P22L, 12" Woofer. Low frequency resonance, 55 cycles. Uses 2 1/2 pound magnet. Imp., 16 ohms. Wt., 22 lbs.

81-679. List, \$48.00. NET..... 35.28

Model P52LX, 15" Woofer. Low frequency resonance, 40 cycles. Uses 4.2 pound magnet. Imp., 16 ohms. Wt., 28 lbs.

81-678. List, \$64.00. NET..... 47.04

"Woofers" Available with 3.2 or 8 Ohms Impedance—on Special Order.



LOUDNESS CONTROL

Livingston tone-compensated volume control, for use at grid of hi-fi amplifiers. At low volume levels, the human ear is less responsive to low frequencies—resulting in an apparent loss of low frequencies. This control

is compensated for 22 intensity levels, and assures proper aural response even at low volume levels. For chassis or panel mounting, in new or existing installations. Requires 2 1/2x2 1/2" mtg. space. Total resistance, 1.1 meg. Shpg. wt., 6 oz.

65-075. NET..... 9.95



± 1 db 20 TO 20,000 CPS
KNIGHT 20-WATT HI-FIDELITY AMPLIFIER

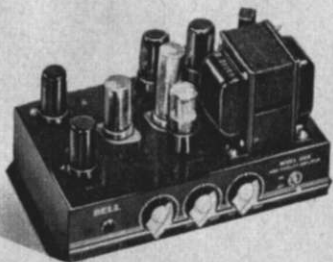
For superlative reproduction from phonograph or tuner, choose this versatile KNIGHT 20-Watt Amplifier. One of the finest high-fidelity units ever offered anywhere, it has the widest frequency response, the lowest hum, and the lowest harmonic and intermodulation content of any amplifier in its price class. In addition, it carries a one-year unconditional guarantee!

CHECK THESE FEATURES

Less than 2% distortion at 20 watts. Hum, 80 db below rated power. Built-in, equalized preamplifier for magnetic cartridges; input for mike; input for record players with crystal cartridges; inter-channel connection between preamplifier and main amplifier, for circuit switching at tuner; equalized hi-impedance output for direct connection to crystal recording heads; front-of-panel switch for selecting record player (thru preamp) or tuner; wide choice of output impedances for any speaker or magnetic recording head; separate bass and treble tone controls; and—hum-free, wide-range response with practically no distortion. Controls: Volume On-Off; bass, treble; phono-radio channel selector switch. Uses 1—6SN7, 1—6SL7, 1—6SC7, 2—6L6G. Also uses 5U4G rectifier. For complete specifications and curves, write to ALLIED's Sound Division, or see page 117 of ALLIED Catalog No. 120. Supplied in all-weld case with die-drawn ends, finished in two-tone gray Hammerloid. Size: 14 3/4" W, 8 3/8" H, 11 1/4" D. With tubes, instructions, and connectors. For 110-130 v., 50-60 cycles. Shpg. wt., 27 lbs.

93-320. NET 59.95

Terms: 6.00 down, 5.20 per month for 11 months.



BELL 2122 10-WATT HI-FI AMPLIFIER

An excellent high-fidelity amplifier in the economy price bracket. Available with or without remote control panel.

Technical Specifications. Frequency response, 30-15,000 cycles, ± .75 db. Four inputs: crystal phono; 2 magnetic phono (one for low-level magnetic cartridges such as G.E., and one for high-level magnetic cartridges such as Pickering); tuner-radio. Magnetic inputs have built-in equalized pre-amplifiers. Separate bass and treble controls. Speaker output impedances: 3.4-4, 6-8, and 15-18 ohms. Hum level, 65 db below rated output. Tubes: 2—6V6GT, 2—6SC7, 1—6SL7GT. With 5Y3GT rectifier. Output, 10 watts at less than 3% distortion.

Controls: Include: Volume, Bass, Treble-On-Off. On-Off switch controls 117-volt outlet provided at rear of amplifier for phono motor or tuner power take-off. Overall size: 11 1/2" W, 6" H, 7 1/2" D. Complete with all tubes. For operation from 110-120 volts, 60 cycles AC. Shpg. wt., 12 lbs.

97-735. List, \$69.50. NET 40.87

Model 2122R. Amplifier as above, but with remote control panel and box. Has extension shafts and color-coded cables with plugs for easy installation. Size of box: 5 1/2" W, 2 3/4" H, 2" D. With all tubes. Shpg. wt., 13 lbs.

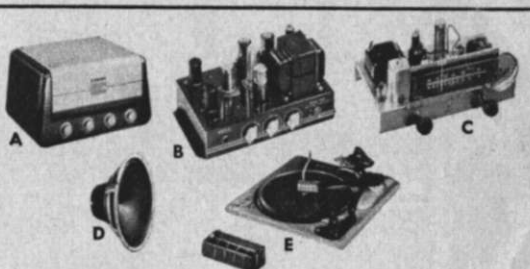
97-736. List, \$87.50. NET 51.45

Terms: 5.15 down, 5.45 monthly for 9 months.

For Additional Hi-Fi Amplifiers Refer to Pages 42-44 of this Supplement and Pages 119 to 121 of ALLIED Catalog No. 120.

ALLIED IS THE LEADING SUPPLIER OF HIGH-FIDELITY CUSTOM COMPONENTS

As the leading supplier of Hi-Fi components, ALLIED spares no effort to bring you equipment that provides the very finest in radio and record reproduction. The outstanding KNIGHT 20-Watt Amplifier described below is typical of the values offered. Additional components, such as changers, cartridges, phono pickups, tuners, amplifiers, speakers, custom cabinets, etc., are listed on pages 22-27 and 117-126 of ALLIED's 196-page 1950 Catalog. You are always assured of best value when you select your custom components from ALLIED!



SYSTEMS FOR CUSTOM INSTALLATIONS

The low-cost custom systems below provide superb reproduction of music from records and FM broadcasts. Each component has been tested and approved by national consumer products research organizations. The systems are supplied complete, ready for immediate installation. They include all cables and leads for inter-connecting components; all tubes, all hardware, and full instructions. Installation is simple; no solder connections are required—cables are equipped with plugs. And best of all—the low cost of these systems puts them within range of the average budget. Now everyone can enjoy brilliant, wide-range reproduction of music—with these outstanding, complete high-fidelity systems!

TIME-TESTED PROVEN COMPONENTS

All units operate from 110-120 volts, 60 cycle AC.

- (A) Knight 20-Watt Hi-Fi Amplifier. At left.
- (B) Bell Model 2122 10-Watt Hi-Fi Amplifier. See description at left, below.
- (C) Meissner 8C FM Receptor Chassis. See description on page 44 of this Supplement.
- (D) G.E. Deluxe 12' PM Speaker Type S1201D. Response 50-13,000 cycles. Extra-heavy Alnico V magnet—14.5 oz. Power handling capacity, 25 watts. All-weld construction. Voice coil dia., 1 1/4"; imp., 8 ohms (matches KNIGHT and Bell amplifier speaker outputs). See page 126 of ALLIED Catalog No. 120 for complete description.
- (E) Webster-Chicago 356-27 3-Speed Changer. See page 37 of this Supplement for complete description. Complete with plug-in heads, 2 G.E. cartridges and hardware.

CUSTOM FM-PHONOGRAPH SYSTEMS

Knight 20-Watt FM-Phono System. Consists of KNIGHT Amplifier (A), Meissner Tuner (C), G.E. Speaker (D), and W/C Changer (E). Shpg. wt., 66 lbs.

93-327. NET 149.50

Terms: 14.95 down, 11.89 monthly for 12 months.

Bell 10-Watt FM-Phono System. As above, but with Bell Amplifier (B). Shpg. wt., 45 lbs.

97-733. NET 131.50

Terms: 13.15 down, 10.45 monthly for 12 months.

CUSTOM PHONOGRAPH SYSTEMS

Knight 20-Watt Phono System. Consists of KNIGHT Amplifier (A), G.E. Speaker (D), and W/C Changer (E). Shpg. wt., 57 lbs.

93-326. NET 116.30

Terms: 11.63 down, 9.25 monthly for 12 months.

Bell 10-Watt Phono System. As above, but with Bell Amplifier (B). Shpg. wt., 39 lbs.

97-739. NET 97.20

Terms: 9.72 down, 7.73 monthly for 12 months.

HIGH-FIDELITY WIDE-RANGE AMPLIFIERS



BOGEN DELUXE HI-FI AMPLIFIERS

PX10—10-WATT AMPLIFIER WITH RANGE EXPANDER AND PREAMP

Features built-in dynamic volume expander and built-in preamplifier for magnetic phono pickups. Dynamic range expander adds up to 20 db to the dynamic range of classical records. Operates almost instantaneously, avoiding chopping effects. Does not require re-setting. Multi-Range Tone Corrector provides four distinctly different frequency responses: Mellow Bass, Wide Range, Extended Range, and Brilliant. Specifications: Frequency response, 30-15,000 cps, ± 2 db. Two inputs, one for magnetic phono (medium impedance) and one for crystal phono or radio tuner (high-impedance). Output, 10 watts at 5% distortion, 17 watts peak. Hum, -70 db. Speaker outputs: 4, 8, 15, and 500 ohms. Uses: 6SC7, 2-6SL7GT, 6SA7, 2-6V6GT, 5Y3GT rectifier. Size: 11x7 $\frac{1}{4}$ x7" deep. For 110-120 volts, 60 cycle AC. Power drain, 78 watts. U.L. Approved. With tubes. Shpg. wt., 14 lbs.

93-940. Model PX10. 56.10
List, \$85.25. NET

5.61 down, 5.35 monthly for 10 mos.

93-941. Model PX10C. As above, but with controls on 4-ft. extension cables. Wt., 15 lbs. List, \$93.50. **NET . . . 61.05**

PX15—DELUXE 15-WATT AMPLIFIER WITH RANGE-MASTER CONTROL

High-fidelity amplifier for deluxe installations. Range Master Control corrects for various conditions of record noise; provides high frequency cut-off at 3000, 6000, and 9000 cycles, plus full-range reproduction (30-20,000 cps, ± 1.5 db). Has equalized built-in preamplifier for magnetic cartridges. Preamp and voltage amplifier tubes use DC heated filaments—thus reducing hum. Bass and treble controls boost and attenuate at both ends. Specs: Hum, -75 db; output 15 watts at less than 2% distortion, 30 watts peak. Inputs: Magnetic phono (with preamp) and crystal phono or tuner. Speaker output impedances: 4, 8, 16 and 500 ohms. Uses: 12SJ7, 12AH7, 6SL7, 2-6L6G, 5Y3GT rectifier. Size: 15x9 $\frac{1}{4}$ x8" deep. For operation from 110-120 volts, 60 cycle AC. Drain, 105 watts. U.L. Approved. With tubes. Shpg. wt., 25 lbs.

93-942. Model PX15. 82.50
List, \$137.50. NET

8.25 down, 6.56 monthly for 12 mos.

93-943. Model PX15C. As above, but with all controls mounted on 4-ft. extension cables. Shpg. wt., 27 lbs.

93-944. Model PX15C. 90.75
List, \$151.25. NET

SCOTT 210A 20-WATT DYNAMIC NOISE SUPPRESSOR AMPLIFIER

High-fidelity amplifier with Scott Dynamic Noise Suppressor circuit. Cuts scratch and rumble frequencies at low signal levels, and automatically restores the full frequency range at normal levels. Noise reduction is between 20 and 30 db at the high frequencies, and 15-30 db at low frequencies, depending on setting of the suppressor control. Effective to 16,000 cycles. Response, 20-20,000 cps. Distortion: under 1 $\frac{1}{4}$ % at 20 w, $\frac{1}{4}$ % at 8 w. Hum level, -80 db. Inputs: 2.2 megohm, low-level input for magnetic pickups (with built-in, equalized preamplifier); 1.1 megohm, high-level input for tuners and crystal pickups. Speaker output impedances: 2 to 20 ohms. Power output, 20 watts—25 watts peak. Controls: On-Off, Volume, Dynamic Noise Suppressor, Frequency range, Bass, Treble, and Pickup Adjustment (on chassis). Includes built-in 10 kc AM station whistle filter. Tubes: 12SL7GT, 6SL7GT, 6SN7GT, 6SQ7, 12SG7, 2-6SG7, 2-6L6GA, with 5V4G rectifier. Size: 15x8 $\frac{1}{2}$ x12". With tubes. For 110-120 volts, 60 cycles AC. Shpg. wt., 24 lbs.

97-732. List, \$365.00. NET 214.62
21.46 down, 17.06 monthly for 12 mos.



BOGEN LOW-COST HI-FI AMPLIFIERS

MODEL PH10—LOW COST HIGH QUALITY AMPLIFIER

Low-cost, high-fidelity amplifier recommended by a nationally known research organization. Frequency response is ± 1 db, 40-15,000 cycles. Multi-Range Tone Control provides four different types of corrected response: Deep Bass, Mellow Bass, Wide Range, and Extended Range. Input circuit (500,000 ohms) will accommodate any crystal phono or a radio-tuner. Push-pull output with inverse feedback insures full 10 watts of power (14 watts peak) at 5% distortion. Hum is 80 db down from full rated output. Speaker output impedances, 3.2 and 8 ohms. Uses: 6SL7GT, 2-6V6GT, 5Y3GT rectifier. Size: 11" wide, 6" high, and 3" deep. For 110-120 volts, 60 cycles AC. Drain, 60 watts. With tubes. Shpg. wt., 10 lbs.

93-923. Model PH10. 29.25
List, \$48.75. NET

93-924. Model PH10C. As above, with all controls mounted on 4-ft. exten. cables. Wt., 11 lbs. List, \$53.75. **NET . . . 32.25**

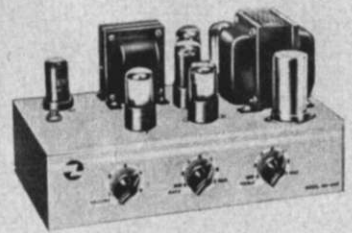
MODEL DB10—10-WATT AMPLIFIER WITH DUAL TONE CONTROLS

Hi-Fi amplifier with dual tone controls. Response, 30-18,000 cps, ± 1 db. Output, 10 watts at 3% distortion, 15 watts peak. Inputs: Magnetic phono (with equalized preamplifier), and crystal phono-radio tuner. Provision for external change-over switch from tuner-phonograph to magnetic phono, and vice-versa, eliminating preamp when tuner is used. Hum, -68 db. Speaker output impedances, 4, 8 and 16 ohms. Bass control boosts 19 db and attenuates 20 db at 100 cycles; treble control boosts 14 db and attenuates 16 db at 10,000 cycles. Uses 6SC7, 6SL7, 6SF5, 2-6V6GT, 5Y3GT rectifier. Size, 11x7 $\frac{1}{4}$ x7" deep. For 110-120 volts, 60 cycle AC. 70 watts. U.L. Approved. With tubes. Shpg. wt., 12 lbs.

93-944. Model DB-10. 46.20
List, \$77.00. NET

4.62 down, 5.51 monthly for 8 mos.

93-945. Model DB10C. As above, with all controls mounted on 4-ft. exten. cables. Wt., 13 lbs. List, \$85.25. **NET . . . 51.15**



POPULAR MASCO 10-WATT HIGH-FIDELITY AMPLIFIERS

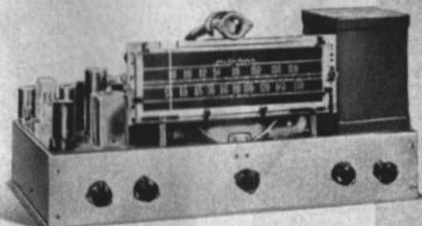
Model MA-10HF. Provides 10 watts of hum-free power. Four inputs, 1 each for tuner and crystal pickup, and 2 for magnetic pickups. Built-in pre-amplifier for magnetic cartridges. Volume control. Separate bass and treble controls both boost and attenuate. AC receptacle provided to power phono motor. Response: ± 1 db, 40 to 20,000 cps. Distortion: less than 5%. Hum level: 70 db below 10 watts. Output impedances: 2-4-8-16-500 ohms. Inverse feedback: 12 db overall. Tubes: 2-6SL7GT, 1-6SC7, 2-6V6GT. Rectifier is 5Y3GT. Safety fused. U.L. Approved. Gray hammer-tone finish. Size, 12x6 $\frac{1}{4}$ x7". With tubes and input connector. For 110-120 volts, 60 cycles AC. 75 watts. Shpg. wt., 15 lbs.

97-752. List, \$68.95. 40.54
NET

Model MA-10EX. Similar to above, but with built-in volume expander and 4-position tone compensator instead of individual bass and tone controls. Dynamic range may be varied manually up to +10 db. Operates without time lag. Shpg. wt., 16 lbs.

97-753. List, \$84.95. NET . . . 49.95
5.00 down, 5.30 monthly for 9 mos.

HIGH-FIDELITY FM-AM RADIO TUNERS



COLLINS 45-D FM-AM TUNER

A precision-built FM-AM tuner, by Collins Audio Products, for high-fidelity radio reception. Important features include: Wide-range response (to 10 kc on AM and 15 kc on FM); 10 microvolt sensitivity on FM; very high stability; double-shadow tuning on FM; built-in power supply.

FM Specs: IF, 10.7 mc; IF bandwidth at 6 db down, 200 kc. Image ratio, 500 to 1. Antenna input, 300 ohms. Voltage stabilization in RF section prevents frequency fluctuations. Uses double limiter and Armstrong discriminator. Covers 88-108 mc.

AM Specs: Covers 530 to 1650 kc. Sensitivity, 80 microvolts. 20 kc flat-top response. Four-gang tuning condenser. Delayed, amplified AVC. 10 kc whistle filter.

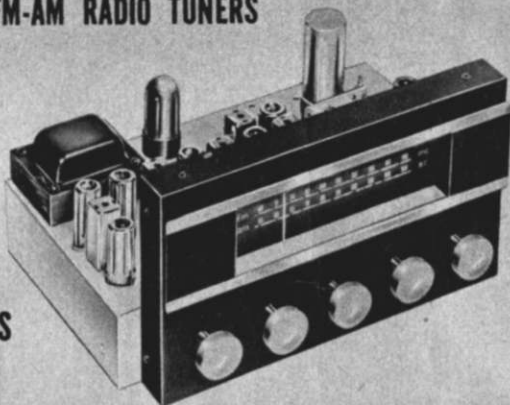
Has high-level phono input (requires external preamp for magnetic cartridges). Controls: 10 kc Filter Switch, Phono-Band Switch; Tuning; Volume, On-Off-Tone. Dial is slide-rule, edge-lighted. Uses 16 tubes, plus VR150 voltage regulator, 6AL7GT "tuning eye," and 5Y3GT rectifier. Size: 17" W, 8" H, 11" D. For 110-120 volts, 60 cycle AC. With all tubes. Shpg. wt., 20 lbs.

97-860. NET. 198.75

Terms: 19.88 down, 15.80 mo. for 12 mos.

We can supply all Collins Custom FM-AM Tuners and Hi-Fi Amplifiers.

**NEW!
FOR
CUSTOM
MUSIC
INSTALLATIONS**



RADIO CRAFTSMEN RC-10 FM-AM RADIO TUNER

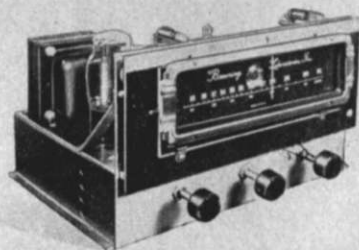
A new and improved version of the well-known RC-8 tuner. Automatic frequency control on FM eliminates "warm-up" period—assures no-drift tuning. Has preamp for magnetic cartridges. Double triode audio amplifier furnishes up to 3 volts output at less than 1% distortion. Output matches high or low-gain amplifiers. In Phono or TV position, power is removed from all but 2 (audio) tubes; also, edge-lighted, fluorescent slide-rule dial is dimmed. Has continuously variable bass and treble tone controls. 10 kc whistle filter on AM. Sensitivity: 5 microvolts provides usable signal on both AM and FM. Supplied with built-in loop for AM, and indoor dipole for FM. Also has antenna coil for outside AM antenna, and provision for outdoor FM antenna (300 ohms or 70 ohms impedance). Controls: Bass, Off-On Volume, FM-AM-Phono-TV Switch, Tuning, and Treble. Chrome-plated chassis. Size: 13 1/2 x 9 1/2 x 7" high. With 11 tubes plus rectifier. For 105-125 volts 60 cycle AC. Shpg. wt., 16 lbs.

97-855. List, \$199.00. NET. 119.50

Terms: 11.95 down, 9.50 monthly for 12 months.

RC-2 Hi-Fi Matching Amplifier. For use with above. Response, flat from 20-20,000 cps. Output, over 12 watts at 1% distortion. Hum and noise level, 70 db down. Inverse feedback circuit. Overall gain, 70 db. Input, 1 megohm. Output taps, 4, 6, 8, 15 and 500 ohms. Volume, tone, and AC controlled from tuner. Chrome-plated chassis. Overall dimensions: 7x10x6". Complete with 4 tubes plus rectifier. For operation from 105-125 volts, 60 cycle AC. Shpg. wt., 12 lbs.

97-856. List, \$65.00. NET. 39.00

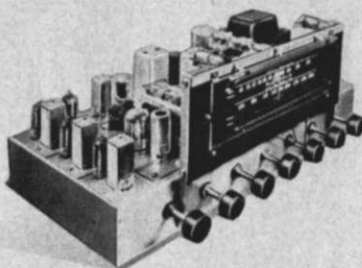


MODEL RV-10 FM TUNER

Provides flawless reception of FM broadcasts when used with any good amplifier. Employs Armstrong FM circuit and two-stage cascade limiter to assure freedom from noise. Tuned RF stage increases gain and reduces image interference. Sensitivity: 10 microvolts produces complete limiting. High-impedance output for matching any good high-fidelity amplifier. Self-contained power supply. Double-shadow "tuning eye" assures correct tuning. Large, edge-lighted slide-rule dial is calibrated in megacycles and channel numbers. High-quality components used throughout. Controls: Phono-FM Switch, Volume, and Tuning. The Browning RV-10 uses 3—6AU6, 1—7F8, 2—6SJ7, 1—6H6, rectifier and 6AL7GT "tuning eye." Supplied complete with tubes, dial escutcheon, 8 ft. shielded cable and connectors. Dimensions: 11" wide, 6 1/2" high, 8 3/4" deep. Easily mounted in a cabinet, bookcase, etc. Antenna input, 300 ohms. For operation from 110-120 volts 60 cycle AC. With instructions. Shipping wt., 14 lbs.

97-925. List, \$134.20. NET. 82.22

Terms: 8.20 down, 6.54 mo. for 12 mos.



MODEL RJ-20 FM-AM TUNER

Top-quality FM-AM tuner. 20 db quieting with 6 1/2 microvolts. 5 microvolts sensitivity on AM. Has separate RF and IF circuits. Two stages of audio amplification. Treble and bass controls. AM IF system provides 9 kc and 4 kc bandwidths. FM response, ±3 db, 15-15,000 cycles. FM antenna inputs, 300 and 72 ohms. Built-in power supply. Uses 5—6AU6, 1—7F8, 2—6AL5, 1—12AU7, 1—6SK7, 1—6SA7, 1—6SG7, plus 6AL7GT "tuning eye" and rectifier. Size: 17x7 1/2 x 9". With tubes. For 110-120 volts, 60 cycles. 24 lbs.

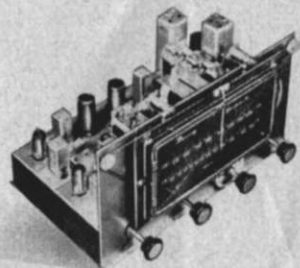
97-926. List, \$254.85. NET. 155.43

15.54 down, 12.36 monthly for 12 mos.

Model AA20. Hi-Fi Triode Audio Power Amplifier. For use with above FM-AM tuner. Output, 15 watts. Very low hum and distortion. Response, ±1 db, 10-17,000 cps. Output taps, 1.2 to 30 ohms. Has power takeoff for preamps, noise suppressors, etc. Size: 14x7 1/2 x 11". With 1—6SN7GT, 2—6B4G, and 2 rectifiers. For 110-120 volts, 60 cycle AC. Wt., 35 lbs.

97-927. List, \$186.75. NET. 122.01

Terms: 11.38 down, 9.05 mo. for 12 mos.



MODEL RJ-12A FM-AM TUNER

For high-fidelity reception of FM, and quality reception of the AM broadcast band. Sensitivity: FM, 10 microvolts produces 30 db noise reduction; AM, 5 microvolts. Separate RF and IF circuits used on AM and FM. Response: FM, 20-15,000 cycles, ±1 1/2 db; AM, 20-6,600 cycles, ±3 db (triple-tuned IF's on AM). Has high-impedance output for connection to any high-quality amplifier. Phono input provided at rear; switching to "Phono" permits controlling volume at tuner. FM antenna input, 300 ohms. Double-shadow "tuning eye." Large, edge-lighted dial, with vernier tuning. Uses 3—6AU6, 1—7F8, 1—6SK7, 1—6SG7, 2—6SJ7, 1—6H6, 1—6SA7, plus 6AL7GT "tuning eye," 1N34 germanium diode detector. Size: 13 1/2 x 6 x 9". With tubes and instructions, less power supply. For 110-120 volts, 60 cycle AC. Shipping weight, 16 lbs.

97-928. List, \$185.40. NET. 113.78

Terms: 11.38 down, 9.05 mo. for 12 mos.

Model PF-12 Power Supply. For use with above. 3 1/2 x 6 x 8". Shpg. wt., 9 lbs.

97-929. List, \$23.65. NET. 15.46

PILOT DELUXE FM-AM RADIO CHASSIS

LIMITED NUMBER AVAILABLE

FM-AM chassis by Pilot, a famous name in radio equipment. Provides complete coverage of the AM broadcast band from 540 to 1720 kc and full FM coverage from 88 to 108 mc. The advanced circuit features tuned RF stages on both FM and AM, for increased selectivity and sensitivity. Push-pull power amplifier, in combination with the extended range Jensen P12SH 12" speaker supplied, provides fine reproduction from low bass to high treble.

Performance Features. Has excellent response: 60 to 10,000 cycles. Sensitivity on both FM and AM is 10 microvolts for 1/2 watt output. Balanced ratio detector provides maximum AM rejection with minimum noise level. FM section has separate mixer and oscillator for drift compensation. High "Q" silver-plated FM coils for greater gain. Separate three-gang tuning condensers for FM and AM. Uses: 3—6BA6, 1—6BE6, 1—6J6, 1—6AG5, 1—6C4, 1—6AL5, 1—12AX7, 2—6V6GT. Has 1—6E5 Magic Eye tuning indicator, 1—5V4 rectifier.

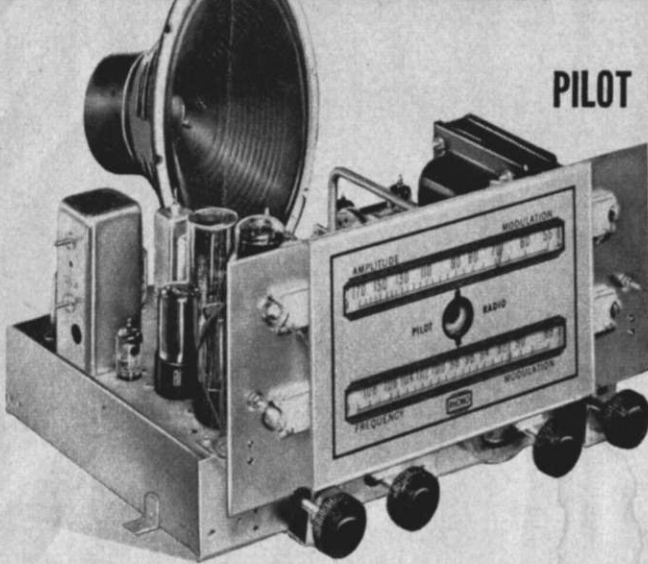
Operating Features. Easy-to-read slide-rule dial is individually illuminated for FM, AM and Phono. Has flywheel drive assembly and Magic Eye tube for quick, accurate tuning. Phono input jack and AC phono motor connection provided. Built-in AM loop antenna and FM dipole antenna. Extension pilot-light socket. Controls: On-Off-Volume, FM-AM-Phono, Tuning, Tone. Size: 15" W, 7 1/4" H, 12" D. With all tubes, speaker, output transformer, escutcheon and knobs. For 110-120 v., 60 cyc. Wt., 25 lbs.

97-940. NET 49.50

Terms: 4.95 down, 5.25 monthly for 9 mos.

Chassis as above, less speaker. Requires output transformer such as 63-779 @ \$2.44. For speakers see page 40 of this Supplement and pages 124 to 128 of Catalog No. 120. Shpg. wt., 20 lbs.

97-941. NET 43.00



AN EXCEPTIONAL ALLIED VALUE

ONLY \$49.50 COMPLETE WITH 12" SPEAKER

Never before have we offered so outstanding a chassis value! The Pilot FM-AM chassis was originally made for a high-priced deluxe radio-phonograph console, and has all the quality features you'd expect to find in such a unit. Only a special purchase by ALLIED makes the amazingly low price of \$49.50 for both chassis and speaker possible. *Quantity limited—order now!*



MEISSNER 8C FM RECEPTOR

The 8C FM Receptor is a product of the famous Meissner laboratories. Built to the same high standards that distinguish all other Meissner amplifier-tuner products, the 8C Receptor is a precision instrument. It is designed for simple connection to any AM receiver, phono amplifier or PA system, for instant conversion to FM reception. Covers entire 88-108 mc FM band. Frequency response, ±2 db, 50 to 15,000 cycles. Reproduces full range of FM signals. Undistorted rms audio output: 3 volts at minimum usable signal input; 15 volts maximum. Slide-rule dial, calibrated in megacycles and channel numbers. Controls: Tuning, On-Off (with record-player change-over switch), and volume. Extremely easy to connect—output lead connects to phono input of radio receiver or amplifier; antenna connects to 300-ohm antenna terminals with twin lead; power cord plugs into line. Uses: 2—6AG5, 2—6BA6, 2—6C4 1—6AL5. Also 6X5GT rectifier. Handsome walnut-finish cabinet, 12 3/4 x 8 x 3 1/4". With all tubes. For operation from 110-120 volts, 60 cycles AC. Shpg. wt., 8 lbs.

97-705. List, \$57.50. NET 38.33

As above, but chassis only, less cabinet. Size: 11 x 6 x 7 1/2". Shpg. wt., 6 lbs.

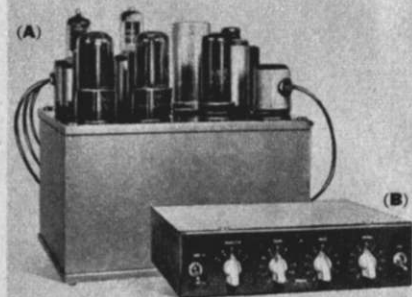
97-707. List, \$51.50. NET 34.40



RMC MODEL 482 TUNER

This RMC tuner brings the full brilliance and rich tone of FM within range of any radio receiver. Compact, the 482 may be placed anywhere—even inside the record compartment of a console cabinet. Affords excellent reception over the entire 88-108 mc FM band. Sensitivity is better than 5 microvolts! Good stability; does not require continual re-tuning. Audio booster stage for matching audio level of amplifier input. All tuned circuits pass full band width of FM high-fidelity signals. Only finest parts used: Ceramic condensers, double-spaced straight-line tuning condensers, iron-core transformers, large filter capacitors, etc. Controls: Volume, Off-On (with record-player change-over switch), and Tuning. Large, easy-to-read slide-rule dial is calibrated directly in megacycles. Uses: 3—6BA6's, 1—12AT7, 1—6AL5, 1—6J5. Also 6X5 rectifier. Terminals provided at rear for easy connection of record player to tuner change-over switch. Permits switching record player output to amplifier, at tuner. In handsome, modernly styled cabinet of solid hardwoods and mahogany veneers. Size: 6 1/2 x 6 3/4 x 7 1/2". Complete with all tubes, and built-in antenna. Has terminals for external antenna. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 8 1/2 lbs.

97-858. List, \$54.95. NET 35.02



McINTOSH PROFESSIONAL HIGH-FIDELITY AMPLIFIER

Model 20W-2. Fig. A. New 20-watt amplifier. Has harmonic and intermodulation content less than 1% of 20 watts. Useful response, 10 to 200,000 cycles. Efficiency, 50% at 20 watts. Noise, 90 db below output. Damping factor, 10. Input, 200,000 ohms; gain, 40 db. Output 600 ohms balanced and 4, 8, 16 or 32 ohms balanced or unbalanced. All plug-in components. Tubes: 2—6J5 drivers, 2—6V6G outputs. Also uses 12AX7 phase inverter and 5Z4 rectifier. Size, 8 3/4 x 6 3/4 x 4 1/2". For 105-125 volts, 60 cycles AC. With tubes, connectors, power supply, metal case, and bias unit. Shpg. wt., 27 lbs.

97-760. NET 149.50

Model AE-2. Fig. B. Remote-control console with Equalizer-Preamplifier for above. Contains 5 input circuits: one each for G.E. and Pickering magnetic cartridges with correct equalization, a crystal pickup and an FM-AM tuner with individual level controls, and a low-level microphone on selector switch. Other features include: microphone preamplifier; independent bass and treble controls; 300 and 500 cycle turnovers at 6 db per octave; On-Off switch with extra receptacle for external equipment. In brown, hammertone metal case, 10 x 2 3/4 x 10 1/4". With all tubes and power supply. Shpg. wt., 8 lbs.

97-764. NET 74.50

For Everything in P.A. and Sound
See ALLIED'S Big Catalog No. 120

KNIGHT READY-TO-USE SOUND SYSTEMS

Listed on these pages are the most popular KNIGHT Sound Systems. Time-tested, user-proven, they give you more for your P.A. dollar—provide dependable service, day in and day out, even under the severest conditions.

KNIGHT Amplifiers Carry a Full-Year Guarantee. Every KNIGHT amplifier is unconditionally guaranteed for one full year against defects in materials or workmanship. This is your positive assurance of KNIGHT super-quality and absolute dependability!

Buy on Easy Terms. Any KNIGHT amplifier or Sound System selling for \$45.00 or more may be purchased under the liberal terms of ALLIED'S Time Payment Plan. Write for special order blank and complete details.

For complete descriptions of all KNIGHT amplifiers and Sound Systems, microphones, phono accessories, tuners, speakers, recorders, intercoms, etc., see the ALLIED 196-page Catalog No. 120. It's radio's biggest Buying Guide! If you don't have a copy, write for it now.

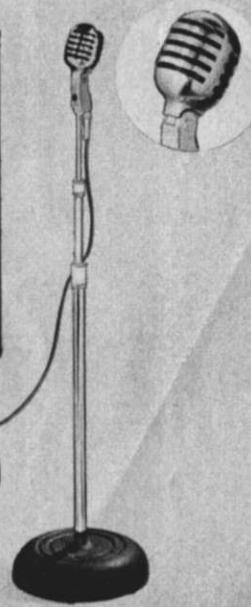
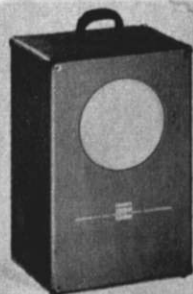


30-WATT SYSTEMS

Audience Coverage:
Up to 4,000 Persons

• • •

Area Coverage:
Up to 20,000 Sq. Ft.



30-WATT AMPLIFIER ONLY

For modernizing an existing P.A. system or for use as the basis of a new system tailored to meet special needs. 3 inputs: 2 mike, 1 phono. Response, ± 2 db, 40-20,000 cps. Speaker impedances: 4, 8, 16, 250 and 500 ohms, plus 70 volts. Adequate gain for any high-impedance microphone. Tone control. Uses: 3-6SC7, 2-6L6G. Also 5U4G rectifier. Two-tone gray enamel steel case. Size: $14\frac{3}{4} \times 8\frac{3}{4} \times 11\frac{1}{4}$ ". With tubes, full set of plugs, instructions. For 110-130 volts, 60 cycle AC. Shpg. wt., 31 lbs. *Unconditionally guaranteed for one year.*

93-370. NET **54.75**
Terms: 5.48 down, 5.22 monthly for 10 mos.

3-Speed Phono Top. Plays all records manually—7", 10" and 12", at 33 $\frac{1}{3}$, 45 and 78 rpm. Complete with tone arm, cartridge, and stylus. Supplied installed on amplifier at no extra cost—when purchased together. Shpg. wt., 6 lbs.

93-340. NET **15.75**

30-WATT PERMANENT SYSTEM

For medium-powered permanent indoor installations. Consists of all components contained in portable system at right, except that it has 2 handsome inclined-front wall baffles, finished in walnut—instead of the portable carrying case. For 110-130 volts, 60 cycle AC. Shpg. wt., 68 lbs.

93-373. Complete, less phono top. NET **108.75**
10.88 down, 8.65 monthly for 12 months.

KNIGHT 30-Watt Deluxe Portable Sound System

The most popular KNIGHT P.A. system—used in thousands of church and school auditoriums, small theatres, lecture halls, etc. Powerful, yet compact and practical for carrying anywhere—it provides maximum flexibility. Dealers from coast to coast prefer the KNIGHT 30-Watt Portable System, because it's the answer to 90% of all P.A. requirements—and because it's priced to give extra profits from sales or rentals!

Famous KNIGHT 30-Watt Amplifier. Provides full 30 watts of usable power. Three inputs, 2 for mike, and 1 for phono, each with individual volume control. Tone control permits easy adjustment to meet acoustic requirements anywhere. Case has die-drawn ends for extra strength. *Unconditionally guaranteed for one full year.* For complete specifications, see description at left.

Matched Components. Top-notch performance is assured by *matched components*. Uni-directional Electro-Voice "Cardax" mike reduces acoustic feedback problems—picks up from front only, back is dead. The 2 G.E. speakers have 14.5 oz. Alnico V magnets for greater audio output. Both are "Safused" for protection against accidental overload. All components have been carefully selected to match perfectly!

New Portable Case. A marvel of convenience and efficiency, the new case has a place for everything. Amplifier is mounted on baseboard which slides into case on runners; clips hold mike stand stem, with a bolt for securing the base; special pocket holds mike and cable. Compact, sturdy case has Pyroxylin-coated, maroon fabric covering and gray flocked speaker grille.

Easy to Set Up and Operate. Just plug speakers and mike into amplifier. Plug amplifier line cord into 110-130 volt AC line. Turn on and adjust the volume. That's all there is to it! Nothing more to add—nothing more to buy.

Complete Portable System. Includes: KNIGHT 30-Watt Amplifier with tubes (less phono top); Electro-Voice Cardax crystal microphone with 20 ft. shielded cable and plug; 3-section adjustable floor stand; 2 G.E. 12" PM dynamic speakers, each with 30 ft. cable and plug; portable carrying case as illustrated. Size: $16\frac{3}{4} \times 12\frac{3}{4} \times 25$ ". Full operating instructions. For 110-130 volts, 60 cycle AC. Shipping weight, 75 lbs.

93-372. Complete system, less phono top. NET **108.75**

Terms: 10.88 down, 8.65 monthly for 12 months.



KNIGHT 15-Watt Portable Sound System

The KNIGHT 15-watt Portable System brings you more watts, greater convenience, and greater performing dependability for your money. An ideal system for lectures, sales meetings, auctions, taverns, small traveling orchestras (fine for use with electric guitars); perfect as a rental system. Covers up to 10,000 square feet, and up to 2,000 persons.

One Year Guarantee. The KNIGHT 15-Watt Amplifier is *unconditionally guaranteed for one full year*. This means you get absolutely full rated output—15 usable watts—and completely dependable performance under all operating conditions. For versatile application, you have one microphone input and one phono input, each with individual volume control. Tone control provides continuously variable treble attenuation.

Complete—Sets Up in a Jiffy. Everything you need is supplied—there's nothing more to buy. You don't have to be an expert to set up and operate the system. Just plug in speaker and microphone; plug amplifier into 110-130 volt line—turn on the switch and you're operating. That's all you do—it's the last word in portable convenience.

Selected Components. You'll appreciate the planning that has gone into your KNIGHT 15-watt Portable System. The Shure 737A "Monoplex" crystal microphone is unidirectional—keeps acoustic feedback at a minimum. 3-section floor stand (with 2 clutches) telescopes to very small size. G.E. 12" PM Dynamic speaker (with 14.5 oz. Alnico V magnet for greatly increased audio output), is "Safused" for protection against accidental overload. The ingenious new portable carrying case is amazingly practical. Amplifier is mounted on baseboard which slides onto runners built into case. Speaker cable winds on brackets inside case. Special clips store mike stand stem, while a bolt holds mike stand base. Pocket with snap-fasteners is provided to store mike and cable. Handsome compact case is covered in tough Pyroxylin-coated maroon fabric, with harmonious gray flocked speaker grille.

Complete Portable System. Includes: 1—KNIGHT 15-watt amplifier complete with tubes; 1—Shure 737A chrome-plated crystal mike with 20-foot shielded cord and plug attached; 1—microphone floor stand; 1—G.E. 12" "Safused" PM Dynamic speaker with 30-foot cord and plug; handsome new carrying case. Size: 16½x12¼x25". Complete with instructions. For 110-130 volts, 60 cycle AC. Shpg. wt., 77 lbs. **NET..... 79.50**

Terms: 7.95 down, 6.32 monthly for 12 months.

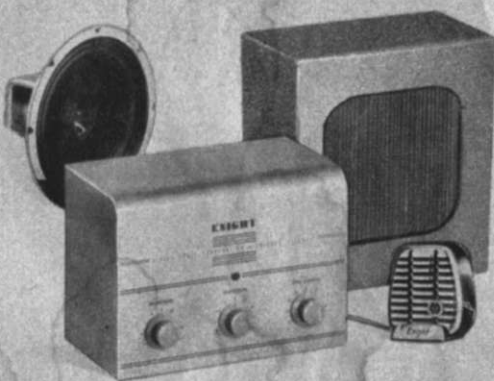
93-365. System same as above, but with 2—8" PM Dynamic speakers, in place of single G.E. 12" speaker. Shpg. wt., 77 lbs. **NET..... 79.50**

15-WATT AMPLIFIER ONLY

An ideal replacement for obsolete units, or perfect as the nucleus of a sound system to meet your special needs. Response, ± 2 db, 40-10,000 cps. Two inputs, one for high-impedance mike and one for phono—each with individual volume control. Tone control. Uses: 1—6SJ7, 1—6SC7, 2—6V6GT. Also 5Y3GT rectifier. Case is all welded steel, with die-drawn ends. Top and bottom are easily removable. Finished in two-tone gray baked enamel, with hammered effect. Size: 14½x8¾x11¼". Supplied complete with all tubes, full set of plugs for mike, phono and speaker sockets; complete operating instructions. For 110-130 volts, 60 cycle AC. Shpg. wt., 26 lbs. *Unconditionally guaranteed for one full year.* **NET..... 36.95**

3-Speed Phono Top. For KNIGHT 15-Watt Amplifier. Plays all records—7", 10" and 12"—at 33½, 45, and 78 rpm. Complete with constant-speed motor, pickup arm with tilting crystal cartridge and twin-tipped needle for playing both standard and micro-groove records. Includes switch, arm-rest and plug-in connections. Supplied installed on amplifier when purchased together. Shpg. wt., 10 lbs. **NET..... 15.75**

93-340. **NET..... 15.75**



KNIGHT 8-Watt Permanent System

Here's a splendid, complete, low-cost system that's perfect for those smaller permanent installations. You get the same quality you'll find in the larger KNIGHT Sound Systems—the same *unconditional one-year guarantee* on the amplifier, the same full-rated power delivery and completely dependable performance. An excellent profit-making sound package, with numerous applications in lodges, classrooms, churches, stores, cafes, etc.

Ready to Use. Complete—nothing more to add or buy. Sets up in a jiffy. Just plug mike and speaker cables into amplifier, plug amplifier into AC outlet—and you're ready to operate. You get *perfect* results the first time you try it.

"Big System" Features. Supplied with handsome wall baffle for permanent type mounting. Quality 8" PM dynamic speaker (with 6.8 oz. Alnico V magnet). Shure "Hercules" controlled reluctance (magnetic) mike is not affected by heat or humidity. Amplifier has 2 inputs to take any high-impedance mike and record player. Each input has its own volume control. With special outlet for adding additional dynamic speaker if desired. Tone control—permits easy adjustment to meet every requirement.

Complete System. Includes: KNIGHT 8-Watt Amplifier, complete with tubes; Shure "Hercules" magnetic microphone with 20 ft. cable and plug; Quam 8" PM dynamic speaker with 30 ft. cable and plug attached; attractive leatherette-covered inclined wall baffle to house speaker; complete instructions. For 110-130 volts, 50 cycle AC. Shpg. wt., 22 lbs. **NET..... 39.75**

8-WATT PORTABLE SYSTEM

An ideal low-cost portable system for hundreds of applications requiring coverage of moderate-sized audiences and areas up to 5,000 square feet. A "natural" for sales demonstrations, auctions, clubs, stores, restaurants, etc. System is supplied complete—ready to use; nothing to add or buy. Easily portable. Features a new case that holds everything. Amplifier has all features described below. Special outlet for adding extra dynamic speaker.

Complete system includes: KNIGHT 8-Watt Amplifier, complete with tubes; Shure Hercules microphone with 20 ft. shielded cable and plug attached; Quam heavy-duty 8" PM speaker and 30 ft. cable with plug attached; handsome carrying case covered with tough, waterproof fabric (only 16½x11x8¾"). Total carrying weight is only 21 lbs. Complete with operating instructions. For 110-130 volts, 60 cycle AC. Shpg. wt., 26 lbs. **NET..... 45.75**

Terms: 4.58 down, 5.46 monthly for 8 months.

8-WATT AMPLIFIER ONLY

You'll marvel at the power of this amazingly compact amplifier. Covers up to 20,000 square feet when used with trumpet speaker. Response, ± 2 db, 70-9000 cps. Two inputs—1 for high-impedance mike, 1 for phono (each with individual volume control). Tone control. Tubes: 6SL7GT, 6L6, Also 5Y3GT rectifier. With 2 speaker sockets. Bull's-eye indicates "on-off"; AC switch is on tone control. New design; all-steel construction, finished in handsome gray. Size: 7½x10¼x7¼". Complete with tubes; full set of plugs for mike, phono and speaker sockets; instructions. For 110-130 volts, 60 cycle AC. Shpg. wt., 13 lbs. *Unconditionally guaranteed for one full year.* **NET..... 26.50**

93-350. **NET..... 26.50**



KNIGHT 80-Watt Super-Power Public Address Amplifier

Use this super-power amplifier as the heart of an existing PA installation—for increased power and coverage at low cost. Or, build a new system around it to meet your particular sound requirements. Four input channels—2 for mike (individually controlled), and 2 for phono (on fader). Response, 30-20,000 cycles, ± 2 db (on both mike and phono channels). Speaker outputs: 4, 8, 16, 250, 500 ohms and 70 volts. 4 speaker sockets. Bass and treble tone controls. Uses two 807 transmitter-type tubes in final stage for high power. Features 600-ohm ungrounded input-output winding on driver transformer—for phone lines or auxiliary amplifier. Output, full 80 watts usable power. Hum is inaudible—75 db below 80W. Tubes: 2—6SC7, 1—6SL7GT, 1—6SN7GT, 2—807. Also, 2—5Y3GT and 2—5U4G rectifiers. Welded steel case has die-drawn ends for extra strength, and is finished in two-tone gray enamel. Safety interlock switch in top cover. Size: 17" wide, 8 $\frac{3}{4}$ " high, 11 $\frac{1}{4}$ " deep. For 110-130 v., 60 cycles. Shpg. wt., 40 lbs. *Unconditionally guaranteed* against defects in material and workmanship for one full year.

93-380. NET.....124.75

Terms: 12.50 down, 9.92 monthly for 12 months.

80-WATT SUPER-POWER SYSTEM

Covers Up To 260,000 Sq. Feet
and Up To 40,000 Persons

An outstanding value in a deluxe, wide-coverage system—complete with trumpet-type speakers for maximum sound projection. A complete, high-power PA package—that provides complete satisfaction for PA users—and top profits for dealers, in both sales and rentals!

Ideal for Industrial Applications. The KNIGHT 80-Watt System can't be beat for such applications as high-power paging, music distribution in industrial plants, etc. Wherever large areas need to be covered—wherever high noise conditions prevail—the KNIGHT 80-watt system is the answer. The full 80 watts of usable power gives you coverage of 260,000 square feet—and up to 40,000 persons. With this system, you can easily blanket an entire factory or industrial area, a large stadium, auditorium or amusement park. It's the one dependable, super-power system that meets all the requirements of a typical industrial installation!

Check These "Super-System" Components: Shure "Unidyne" broadcast-quality dynamic mike with impedance selector switch; unidirectional, cuts down acoustic feedback; impervious to weather. Four University Type PH trumpets with 20" bell diameter and 25-watt driver units. Four universal line-matching transformers.

Amplifier Deluxe Features: Four inputs—2 mike with individual controls and 2 phono on fader. Wide choice of output impedances. 600-ohm ungrounded output-input off driver transformer (for phone lines or using a second amplifier). Separate on-off knob—settings of other controls remain undisturbed when system is turned off. *Unconditionally guaranteed for one full year.*

Complete Sound System. The KNIGHT 80-Watt System is supplied complete: 1—KNIGHT 80-watt amplifier with all tubes; 1—Shure Model 55 "Unidyne" dynamic microphone with 20 ft. cable and attached plug; 1—adjustable floor-type mike stand; 4—University type PH 20" reflex trumpets and mounting brackets with 25-watt driver units; 4—universal line-matching transformers; full instructions. Less speaker cable (use any type 2-conductor cable such as lamp cord, etc.). For 110-130 volts, 60 cycle AC. Shpg. wt., 195 lbs.

93-384. NET.....285.00

Terms: 28.50 down, 22.66 for 12 months.

For free information about special systems to meet the needs of your particular industrial application, write to ALLIED'S Sound Engineering Division.



KNIGHT 25-Watt Universal 6V-110V Mobile Amplifier System

Here's a Universal Sound System that has won the acclaim of PA users everywhere! We believe it to be the finest Universal System ever offered at this price. It's engineered and built right for the most rugged mobile or stationary use. Provides powerful coverage of areas up to 85,000 square feet. Perfect for indoor or outdoor operation.

Works Anywhere. Operate it from any 6-volt storage battery; run it from 110-130 volts, 60 cycles AC. Whichever way you use it—we guarantee full 25 watts usable output.

Flexible—Dependable. Two high-impedance mike inputs and one phono input. Instant control over "mixing" and "fading." Optional built-in record player. Wide selection of speaker output impedances. Tone control for simple acoustical correction. Only quality components are used—to provide many years of dependable service. Electro-Voice dynamic mike—built for rough handling, University all-metal, all-weather trumpets (20" bell diameter), and 25-watt drivers.

Complete, Ready for Quick Installation. Everything is supplied for immediate installation and operation—in any car or truck, or indoors. Nothing more to buy!

Amplifier "Plus" Features. Change from 6 to 110 volts in a jiffy—just change plugs at rear of amplifier. Has stand-by economizer switch. Two speaker outlets. And—the amplifier is *unconditionally guaranteed for one full year.*

Complete Mobile System. Includes: KNIGHT 25-watt, 6-volt—110-volt amplifier with all tubes; AC and 6-volt cables; 2 University Type PH all-metal reflex trumpets, complete with 25-watt driver units; 1 microphone (specify choice of Electro-Voice 600DL hand mike with 6-ft. cord, or E-V 630 mike with table stand and 20-ft. cord) and plug. See listing of optional phono top below. With 50-ft. of speaker cable, and operating instructions. Operates from 6 volts DC and 110-130 volt 60 cycle AC. Shpg. wt., 140 lbs.

93-332. Complete system, less phono top. NET.....165.00

Terms: 16.50 down, 13.12 monthly for 12 months.

25-WATT 6V-110V AMPLIFIER ONLY

This outstanding mobile amplifier can be used with present PA accessories to make a splendid sound system for universal operation. Ideal for PA systems on sound trucks, in band shells, carnivals, etc., as well as indoor systems. Operates from both 6 volts DC and 110-130 volt 60 cycle AC. Three inputs—2 for hi-impedance mike and 1 for phono. Response, ± 2 db, 40-15,000 cps. Speaker outputs: 4, 8, 16, 250, 500 ohms and 70 volts. Output, 25 watts of usable power (31 watts peak). Hum inaudible—75 db down. Uses: 3—6SC7 (dual-triodes), 2—6L6G. Also, 2—6X5GT/G rectifiers. Welded steel case with die-drawn ends for extra strength. Finished in 2-tone hammered gray enamel. Size: 14 $\frac{1}{2}$ "x8 $\frac{3}{4}$ "x11 $\frac{1}{4}$ " deep. Supplied complete with all tubes, AC and DC cable, plugs for mike and speaker jacks, and complete operating instructions. Shpg. wt., 60 lbs. *Unconditionally guaranteed for one full year.*

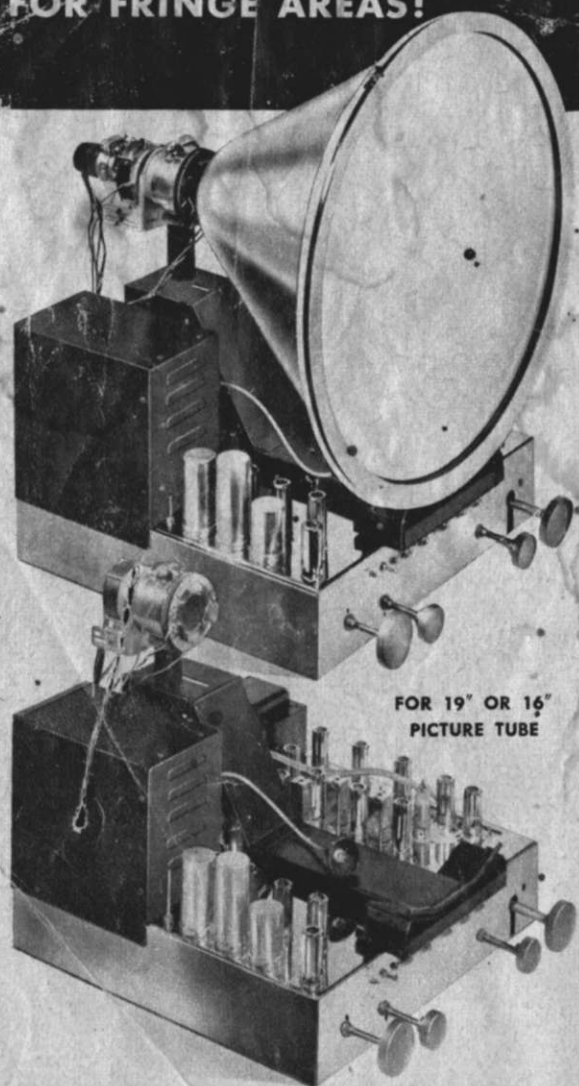
93-330. Complete, less phono top. NET.....92.50

Terms: 9.25 down, 7.35 monthly for 12 months.

Optional Phono Top. For 25-watt amplifier above. Plays standard 78-rpm records. Complete with rim-drive motor, turn-table, tone arm, cartridge, arm rest, and precious-point needle. Supplied installed on amplifier when purchased together. Shpg. wt., 10 lbs.

93-342. NET.....13.75

THE TELEVISION TUNER FOR FRINGE AREAS!



FOR 19" OR 16"
PICTURE TUBE

ADD BIG PICTURE TELEVISION TO YOUR AMPLIFIER OR RADIO!

AMAZING RADIO CRAFTSMEN TV TUNER

NOW—the superb RC-100A TV tuner chassis—with greater sensitivity than ever before—PLUS a new, exclusive built-in boosting circuit that adds as much as 10 db to the video signal! Brings in TV stations in weak-signal or fringe areas—where ordinary receivers fail. Provides the best possible presentation of picture and sound—including high-fidelity reproduction of music.

25 Microvolts Sensitivity PLUS Boosting Circuit. Specially designed, switch-controlled circuit boosts video signal 10 db—for improved picture contrast at long distances from TV stations. Even with booster out of circuit, sensitivity is 25 microvolts!

For 16" or 19" Picture Tubes. The RC-100A now can be used with either 16" tube (150 square inch picture) or 19" tube (178 square inch picture). Select tube and accessory kit below.

Outstanding Circuit Features. Cathode follower audio output preserves the full range of FM sound (20-20,000 cps, ±1 db), and matches input of any good amplifier or radio. Automatic frequency control on both horizontal and vertical sweeps assures perfect interlacing and movie-quality images. Airplane "flutter," auto ignition interference, eliminated by keyed automatic gain control. Separate sound IF channel has double limiter and balanced detector for wide-range response and minimum noise pickup. Turret type tuning unit may be easily converted for future UHF channels.

Only 4 panel controls: Off-On-Volume, Contrast, Fine Tuning-Booster, and 12-Channel Selector. Secondary controls at front of chassis behind nameplate. Completely wired, assembled, and factory aligned. Chassis is chrome-plated. With 25 tubes, 4 rectifiers, knobs, audio cable and instructions. Less picture tube, audio amplifier, speaker and tube mounting accessories (see below). Overall size: With 16GP4 mounted, 16½" W, 21¾" H, 17½" D; with 19AP4, 20" W, 25½" H, 22½" D. Height with 16RP4, 18½". Power drain, only 175 watts. For 105-125 volts, 60 cycle AC. 300-ohm antenna input. Wt., 50 lbs.

97-970. List, \$294.00. **NET**..... **219.50**

Terms: 21.95 down, 17.45 monthly for 12 months.

ACCESSORY KITS FOR RC-100A TUNER. Include safety glass, escutcheon, HV insulating sleeve, ion trap, etc. 5 lbs.

97-977. For 16RP4 tube. } **NET**..... **10.50**

97-975. For 16GP4 tube. } **EACH**.....

97-979. For 16EP4A tube. } **EACH**.....

97-976. For 19AP4A tube. **NET**..... **16.50**

PICTURE TUBES FOR RC-100A TUNER. See page 12 for descriptions of the following tubes for RC-100A Tuner.

5-732. 16RP4 tube. **NET**..... **40.00**

6-798. 16GP4 tube. **NET**..... **40.00**

7-352. 16EP4A tube. **NET**..... **51.25**

7-328. 19AP4A tube. **NET**..... **75.00**

Amplifier and Speaker Selections

For best results, the RC-100A video tuner should be used with a high-fidelity amplifier and speaker. See the complete selections on pages 40-44 of this Supplement, and pages 117-121 and 124-126 of ALLIED Catalog No. #20.

UNI-MODE CUSTOM CABINETS

Pre-cut for Craftsman TV Tuner

Fig. A. Shows Radio Craftsman TV Tuner installed in a Uni-Mode TV Cabinet, stacked on a matching Speaker Cabinet. Consists of TV Cabinet (Fig. B), Speaker Cabinet (Fig. C), top (Fig. D), and base (Fig. E).

Fig. B. Cabinet for Radio Craftsman TV Tuner with 19" picture tube. Size: 24x30x24". Shpg. wt., 50 lbs.

95-292. Mahogany. **NET EACH**..... **59.50**

95-293. Blonde. **NET EACH**.....

Cabinet for Radio Craftsman TV Tuner with 16-inch picture tube. Size: 24x24x24".

95-294. Mahogany. **NET EACH**..... **55.20**

95-295. Blonde. **NET EACH**.....

MATCHING SPEAKER CABINET, TOP AND BASE

Fig. C. Matching speaker cabinet with grille and uncut plywood baffle. Less top. 15x24x24". Shpg. wt., 35 lbs.

95-286. Mahogany. **NET EACH**..... **40.00**

95-285. Blonde. **NET EACH**.....

Fig. D. Top panel for all units. Shpg. wt., 7 lbs.

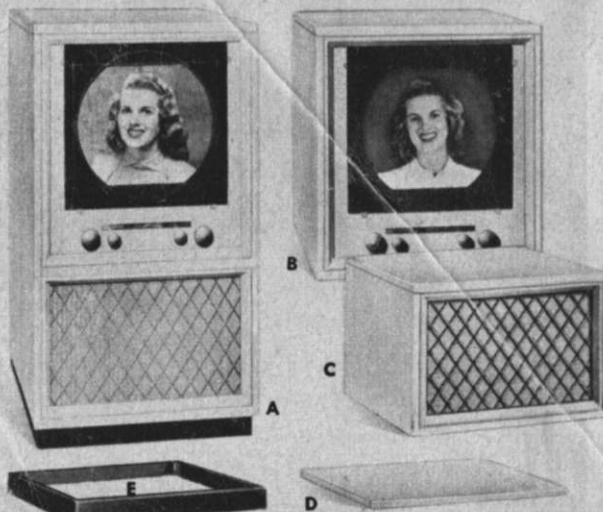
95-288. Mahogany. **NET EACH**..... **12.00**

95-287. Blonde. **NET EACH**.....

Fig. E. Island base for all units. Shpg. wt., 8 lbs.

95-289. **NET EACH**..... **6.00**

ALLIED RADIO CORPORATION, CHICAGO 7, ILL.
TELEPHONE: HAYmarket 1-6800



ALLIED'S *Easy Payment Plan*

ALLIED'S time payment plan covers Amateur Gear, Public Address and Recording Equipment, Test Instruments, Television Receivers, Custom Components and Record Changers and the accessories necessary for the operation of that equipment. Other radio equipment may be purchased on our regular cash terms.

EASY PAYMENT TERMS

- 1) Minimum order—\$45.00 total cash value.
- 2) Down payment, 10%.
- 3) Carrying charge on unpaid balance, 6%.
- 4) Monthly payments—Pay the balance due in 12 equal monthly installments (with minimum payments of \$5.00 per month).

How To Get A Refund On Carrying Charges

A full refund of carrying charges will be made if payments are completed within sixty days after shipment. A refund of 50% of the carrying charges will be made if payments are completed within half the required time.

(NOTE: If part of this order is to be on time payment and part for cash, please enter cash items on another order blank.)

FILL IN THIS FORM WHEN ORDERING ON TIME PAYMENT

Please answer all questions fully to help establish your credit promptly. Write your order on the reverse side.

ALLIED RADIO CORP.

Enclosed is a deposit of \$_____ on the Time Payment cost of the equipment listed on the reverse side.

Starting thirty days after shipment, I will pay \$_____ each month at your office, or where designated by you, as required by your terms, until the total time payment price is paid. The title to, and right of possession of the equipment shall remain with you until fully paid. It is agreed that I will protect the equipment, and will not sell, mortgage, remove, or otherwise deprive you of possession of it without your consent in writing. Upon default of any payment or payments, you may declare the entire unpaid balance due at once, and hold me liable for the full unpaid balance, or you may retake the equipment, as you may elect. For the purpose of receiving credit on this basis, I make the following representations:

Your written signature **X** _____

Cash Price of This Order	\$ _____
Down Payment With Order	\$ _____
Unpaid Balance (Cash Price less Down Payment.)	\$ _____
Carrying Charge (6% of Unpaid Balance)	\$ _____
Balance Due (Unpaid Bal. plus Carrying Chg.) ..	\$ _____
To Be Paid as Follows:	
Monthly Payments of \$	_____

Home Address		How Long	
Living With Parents	Yes <input type="checkbox"/> No <input type="checkbox"/>	(No. and Street or R. F. D. No. and Route)	(City and State)
Landlord's Name		(Address)	(City and State)
Previous Home Address	Single <input type="checkbox"/> Married <input type="checkbox"/>	Number of Dependents Including Wife	How Long (Years) (Months)
Age	Monthly Income \$	If husband and wife both work, give income of each	Husband \$ Wife \$
Real Estate Holdings—Address		(City and State)	
Recorded In Name of	Present Value \$	Mortgage \$	
Name Present Employer	Your Position	How Long (Years) (Months)	
Business Address	If in business for self, what business?	How Long (Years) (Months)	
Name Former Employer		How Long (Years) (Months)	
Bank Account With	Savings <input type="checkbox"/> Checking <input type="checkbox"/>	(Address) (Years) (Months)	
First Trade Reference	(Name)	(Address)	(City and State) Highest Credit \$
Second Trade Reference	(Name)	(Address)	(City and State) Highest Credit \$
Third Trade Reference	(Name)	(Address)	(City and State) Highest Credit \$

NOTE: Time payment contracts cannot be accepted from persons under 21 years of age. If you are under 21, have this form filled out by a person of legal age, regularly employed or engaged in business. He can make the purchase for you, and will be responsible for payment.

IMPORTANT: Please sign this form on line "X" before mailing.

PLACE
POSTAGE
STAMP
HERE

ALLIED RADIO CORP.

833 WEST JACKSON BLVD.

CHICAGO 7, ILLINOIS

PLEASE WRITE OR PRINT YOUR NAME AND ADDRESS CLEARLY

NAME _____

ADDRESS _____

CITY _____

ZONE _____

STATE _____