



RADIO AND TELEVISION

Service News

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After each RCA "Silverama" Aluminized Picture Tube has undergone carefully controlled manufacturing operations, it must successfully pass a series of critical performance tests. Only then is it deemed worthy of bearing the famous RCA trademark. This and other outstanding features of RCA "Silverama" Aluminized Picture Tubes are highlighted in the current "Silverama" promotion and advertising campaign. For full details about this powerful new RCA Tube Division program, turn to the story beginning on page 2.

THE RCA



CAMPAIGN

Your RCA distributor now stands ready to help you cash in on the most dynamic, sales stimulating promotion and advertising drive in picture tube history: the RCA "Silverama" Aluminized Picture Tube Campaign.

This hard-hitting program was launched by the RCA Tube Division only a few days ago. With your active sponsorship, it will assure you increased business, greater prestige, and more profits.

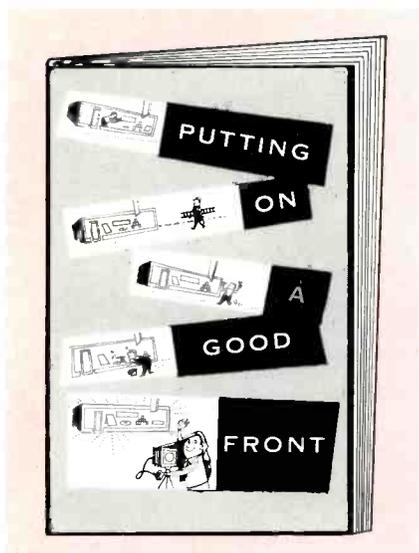
The RCA "Silverama" campaign is loaded with a wide variety of outstanding new merchandisers backed by an intensive schedule of dramatic advertisements in national consumer magazines as well as colorful commercials on coast-to-coast radio and television shows. In addition, this promotion drive can be stimulated by your placement of local newspaper ads and radio

and TV spot announcements. All are geared to direct TV set owners to your local service operation by urging them to have you replace their worn or "tired" picture tubes with new factory-fresh RCA "Silverama" Aluminized Picture Tubes — for the most faithful TV images their receivers are capable of delivering.

Intensive Advertising Schedule

In your behalf, the powerful story about RCA "Silverama"—the great new name in Aluminized picture tubes—will be told repeatedly to the TV set owners in your neighborhood via the mediums of national magazines, local newspapers, radio, and television.

LIFE and TV GUIDE magazines will carry a heavy schedule of full-page and half-page ads that point up the superior features of the RCA "Silverama" Aluminized Picture Tube... features which mean the very finest in TV viewing. These dramatic ads will direct the vast readership of TV set owners to you — their local service-dealer and TV technician.



Valuable Merchandising Booklet (Form 4F902)



"Silverama" Decal (Form 4F905)



Consumer Mailer (Form 4F907)



"Silverama" Banner (Form 4F906)

In addition, a specially-prepared series of forceful newspaper ads announcing the "Silverama" Aluminized Picture Tube will highlight on a local basis a list of names and addresses of "Silverama" service-dealers. Be sure that *your* name is included in this list by contacting your RCA distributor as soon as possible.

On the NBC radio network, popular new programs such as "Monitor" and old favorites such as "Fibber McGee and Molly" will carry persuasive message to millions of prospects. There is also a series of suggested radio scripts which you can use on your local radio station to direct plus business your way for the fabulous RCA "Silverama."

On television, RCA's star-studded, coast-to-coast shows—with well-known entertainers such as Milton Berle and Martha Raye — command a vast audience of prospective customers for TV servicing. The public acceptance of these telecasts is your assurance of the broadest possible coverage for the RCA "Silverama" commercials which support your store or shop as local headquarters for expert TV repairs.

'Silverama' Promotions

To further assure you of a profitable harvest in bonus sales of RCA Aluminized picture tubes, your RCA distributor is making available a wide array of new "Silverama" sales promotion items. Your use of the following business aids is a *must* if you wish to reap the full benefits of a campaign of this kind:

(1) "Silverama" Window Display Kit (Form 4F903).

Focal point of this eye-catching kit is the unit consisting of an eased display card and four side cards. Here is a real traffic stopper. The main display card points out that an RCA "Silverama" Aluminized Picture Tube puts "picture snap" in any set. It spotlights a snappy black-and-white reproduction of the "Silverama" tube with a life-like clown image. The four side cards publicize that factory-fresh "Silverama" tubes are clearer, brighter, and sharper.

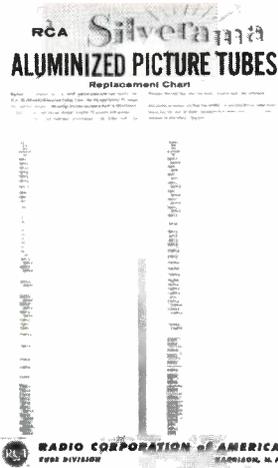
The kit also includes two attractive window streamers which tell an impressive story at your storefront. They call immediate attention to the gigantic "Silverama" advances. Additional quantities of these streamers (identified as Form 4F904) may be obtained on a separate basis, if desired.

(2) "Silverama" Decal (Form 4F905).

Especially decorative on your door or store window, this easy-to-apply decal quickly identifies your store as headquarters for RCA "Silverama" Aluminized Picture Tubes. Bold black-



The "Silverama" Window Display Kit (Form 4F903) consists of an eased display card and four side cards (shown below), as well as two window streamers (shown at left).



Replacement Wall Chart (Form 4F909)



Ad Mats and Commercials (Form 4F911A-H)

and-white format ties in with your litho display.

(3) "Silverama" Banner (Form 4F906).

Here is a beautiful satin-type banner mounted on a spear-tipped cross bar complete with cord, tassels, and fringe. This banner, featuring a blazing mes-

sage to capture the imagination, certainly will round out your "Silverama" window display.

(4) "Putting on a Good Front" (Form 4F902).

This valuable 16-page, illustrated guide contains many merchandising

(Continued on next page)



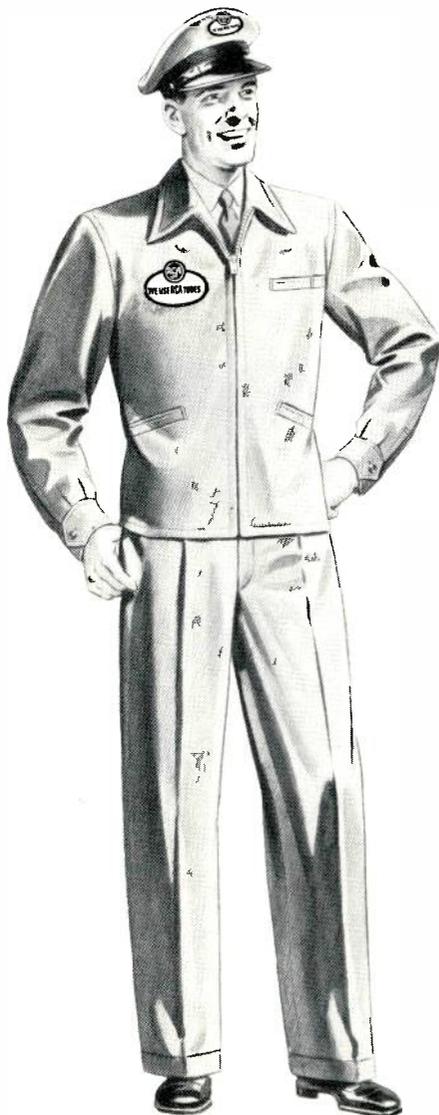
RCA Window Valance (Form 3F17)



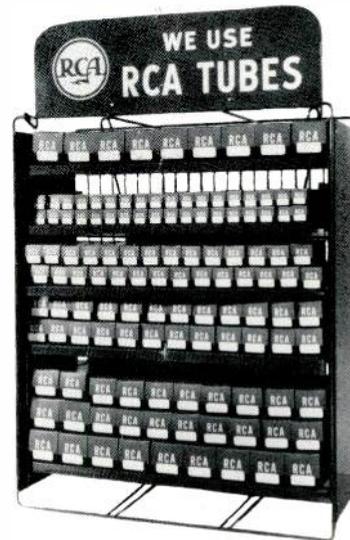
Outdoor Illuminated Sign (Form 3F101)



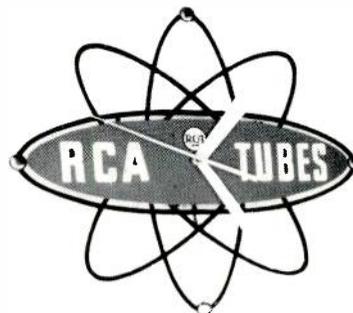
Giant Outdoor Sign (Form 3F160)



Service Call Uniform (Form 3F229)



Tube Wall Rack (Form 3F166)



Electronic Symbol Clock (Form 3F226)

'Silverama'

(Continued from preceding page)

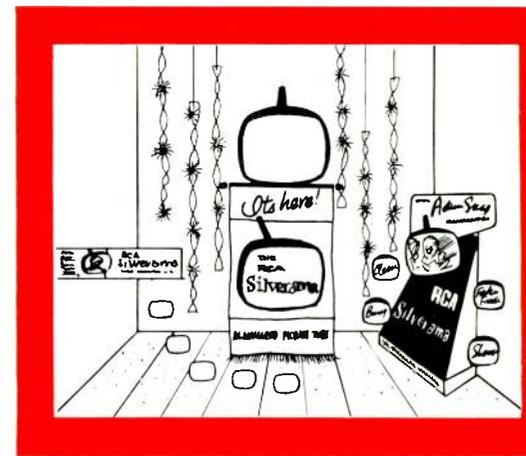
ideas which have been proved in use by successful dealers. It is bound to stimulate profitable action. And this practical booklet is almost indispensable for planning your "Silverama" Window Display Contest entry.

(5) Consumer Mailer (Form 4F907).

Here is a handy self-mailer which also can be used as an envelope stuffer. This informative mailing piece ties your name and address in with the RCA "Silverama" ads in LIFE and TV GUIDE.

(6) Replacement Wall Chart (Form 4F909).

Keep the vital "Silverama" data on



RCA 'SILVERAMA' WINDOW

Opportunity is knocking! Answer the call and you may be rewarded with a big share of the \$12,000 in United States Savings Bonds to be presented by the RCA Tube Division to the aggressive service-dealers and their RCA distributors' salesmen who are selected as winners in the recently announced RCA "Silverama" Window Display Contest.

Imagine, beside reaping the tremendous sales advantages from participating in RCA's dynamic "Silverama" Aluminized Picture Tube Campaign, you may be named to receive the special contest award in your RCA sales region: a \$1,000 U. S. Savings Bond. Eight such awards will be handed out, one to each of the service-dealer contest winners who come out "first" in each of the eight RCA sales regions.

In addition, a \$500 U. S. Savings Bond will be awarded to each of the eight RCA distributor salesmen who countersign the winning entries. Bearing this in mind, ask your distributor's

this chart at your fingertips! Post it near your service bench! A quick check will show you what "Silverama" replacements to use.

(7) Dealer Ad Mats and Spot Commercials (Form 4F911A-H).

Here are eight small and medium-sized ads from which to choose — just what you need to advertise your store as headquarters for RCA "Silverama" Aluminized Picture Tubes. Each ad is ready for use by your local newspaper. Your RCA distributor will help you make your final selection from a proof sheet for maximum effectiveness.

Suggested spot radio and TV commercials are also available from your RCA distributor to help you launch a

forceful and well-rounded local campaign.

Popular Business Builders

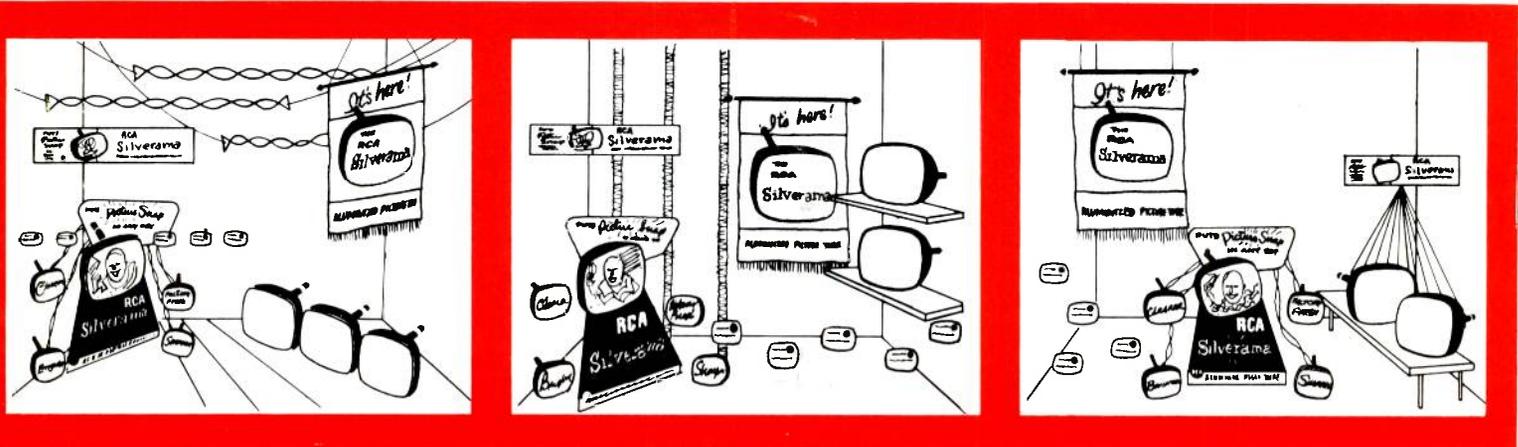
In addition to the new "Silverama" promotion items, your RCA distributor is also offering RCA's Service Call Uniform (Form 3F229), Giant Outdoor Sign (Form 3F160), Outdoor Illuminated Sign (Form 3F101), Window Valance (Form 3F17), Electronic Symbol Clock (Form 3F226), TV Service Sign (Form 3F230), and Tube Wall Rack (Form 3F166).

Now that you are familiar with the facts about RCA's dynamic new "Silverama" Aluminized Picture Tube

Campaign, get together with your RCA distributor immediately and discuss *your* participation in this program and how you can best take advantage of the profit opportunity being offered you. Bear in mind that any delay on your part in jumping on the "Silverama" bandwagon means a delay in your reaping the harvest of potential RCA picture tube business being created by the "hottest" picture tube drive in the industry.

For details on the outstanding features of RCA "Silverama" Aluminized Picture Tubes, along with a listing of the 26 types in RCA's "Silverama" line, turn to the story beginning on 6.

Here are four suggested RCA 'Silverama' window display arrangements



DISPLAY CONTEST FEATURES \$1,000 U. S. SAVINGS BOND FOR EACH DEALER WINNER

salesman to assist you in planning your window display right now.

How Dealer Qualifies for Award

The RCA "Silverama" Window Display Contest is open to all radio and television service-dealers (who use or sell RCA picture tubes) and their service employees, in the continental United States, Alaska, and Hawaii.

To qualify for the award in your region, merely install a display in your store window featuring the new RCA "Silverama" display materials. (These items are described in this issue of RADIO AND TELEVISION SERVICE NEWS.) Other RCA display and product items also may be included.

Then, have a photograph of your window display taken. This picture must be a clear print, preferably an 8-inch by 10-inch size, black-and-white glossy. Attach the photograph to your official "Silverama" Window Display Contest entry blank. Obtain entry blanks from your RCA distributor.

You may enter as often as you like if you choose to rearrange your window display within the duration of this contest. But each entry must be on an official entry blank and only one prize will be awarded per person. Your entry must be submitted in your own name and must include a photograph of your window display. Be sure your RCA distributor's salesman verifies and countersigns your official entry blank.

December 1st Deadline

Mail your entry, using adequate postage, to: RCA Tube Division, Dept. 1955, Harrison, N. J. All entries must be postmarked on or before midnight December 1, 1955.

A panel of judges selected by the RCA Tube Division will determine the winners of the contest. Winners will be singled out on the basis of originality and compelling impact of their "Silverama" window displays. Duplicate prizes will be awarded in case of a tie. Decision of the judges is final. All en-

tries become the property of the Radio Corporation of America and none will be returned. Entry in the contest constitutes permission to the Radio Corporation of America to use your name and entry in any way it sees fit.

The contest is subject to federal, state, and local regulations. Winners will be notified about 30 days after the close of the contest. A list of the winners may be obtained at that time by sending a stamped, self-addressed envelope to the address shown above.

Mail only your contest entry in your envelope. No general correspondence should be addressed to Dept. 1955.

Yes, sir, now that you know how really easy it is to enter RCA's window display contest, you must agree that it certainly will pay for you to tie in with the outstanding "Silverama" program. Set up a window display featuring the new RCA "Silverama" promotion materials . . . and you are in the contest for awards in profit and prestige!

Features of 'Silverama' Picture Tubes

Here are some of the outstanding features of RCA "Silverama" Aluminized Picture Tubes highlighted in the current campaign. These features lead to greater customer satisfaction.

(1) "Advanced Technique" Aluminizing.

Only the most modern, completely automatic, continuous-production equipment is used by RCA to aluminize the "Silverama" Picture Tube. Every phase of the aluminizing process is carefully supervised by RCA's staff of experienced engineers, including a precise check of the thickness and uniformity of the aluminum reflecting coating by a special RCA-designed electronic instrument.

The carefully applied aluminum coating in the RCA "Silverama" Picture Tube reflects toward the viewer the light that otherwise would "bounce" from the sides and back of the tube to cause a graying of the picture blacks and the resultant weak picture of poor contrast.

The problems of mottling, "spiderwebbing," "orange peeling," or "waffling" is a thing of the past in the amazing RCA "Silverama" — as a result of the "advanced technique" process

employed immediately prior to aluminizing.

(2) Screen Color Uniformity.

In the RCA "Silverama," screen color uniformity is assured by rigid RCA controls of all raw materials and manufacturing processes. A significant contribution to this highly important characteristic is a special RCA-developed super-phosphor. This silver-activated phosphor is processed in glass-lined tanks and fully sterilized equipment for optimum purity; it is fired at higher than normal temperatures for greater light output.

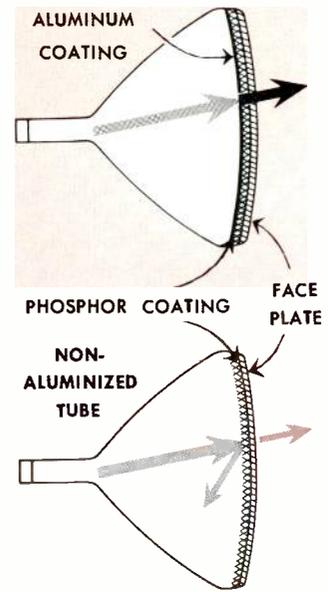
(3) Precision Electron Gun.

This gun is manufactured, assembled, and microscopically tested to RCA's rigid specifications. The electron beam in each "Silverama" Aluminized Picture Tube energizes the entire screen in pin-point detail, assuring picture clarity and sharpness. The precise control of spacings and dimensions of all parts of this precision electron gun contributes to the "picture snap" which has made RCA picture tubes so famous.

(4) Top-Quality Control.

At every step of production from the raw material stage through every manufacturing process to the final product,

Silverama PICTURE TUBE



top-quality control is the secret of customer confidence in RCA products. After each "Silverama" Aluminized Picture Tube has undergone the carefully controlled manufacturing operation, each tube must then successfully

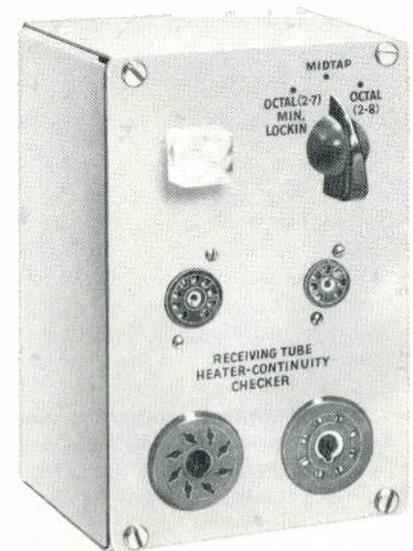
RECEIVING-TUBE HEATER-CONTINUITY CHECKER

Tests All Octal, Lock-In, and Miniature Types, Including Heater Mid-Taps and Rectifiers Utilizing Pins 2 and 8

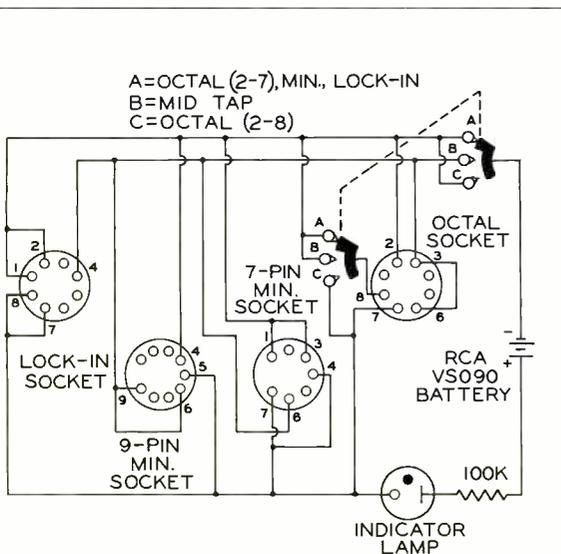
With series-string TV receivers increasing in popularity, the need for a

quick means of finding tubes with "open" heaters is evident. Since one "open" tube removes heater power from all tubes in the string, location of the defective tube becomes a matter of trial-and-error that can be time-consuming. The heater-continuity checker described here, however, greatly simplifies the task by eliminating the need for checking socket connections. This checker also provides a faster means for checking heater continuity than the usual ohmmeter-and-test-leads method.

It is only necessary to insert the suspected tube into the appropriate socket on this checker. If the tube heater has continuity, the neon lamp will glow. If the tube heater is open, the lamp will not light. This checker is simple to construct and offers features not found in



most tube-heater checkers. It can be used for servicing TV receivers, and portable and ac/dc radios. The unit is wired to accommodate tubes having a wide variety of heater connections. It can be used to test the heater continuity



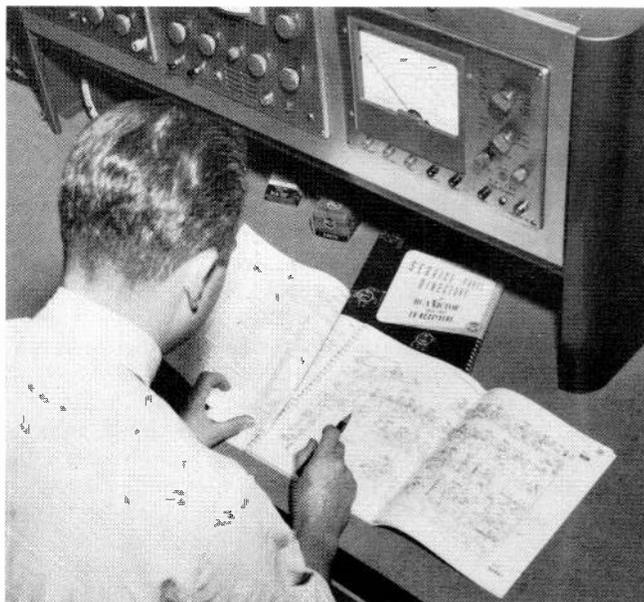
pass a series of critical performance tests. Only then is it deemed worthy of bearing the famous RCA trademark.

(5) Warranty Protection.

All RCA replacement picture tubes are warranted for one full year from date of installation.

At the present time, there are the following 26 types in RCA's line of "Silverama" Aluminized Picture Tubes—which fit virtually every make of TV set on the market:

27MP4
24YP4
24DP4-A
24CP4-A
21ZP4-B
21YP4-A
21FP4-C
21EP4-B
21AWP4
21AUP4-A/21AVP4-A
21ATP4
21AMP4-A
21ALP4-B
21ALP4-A
21ACP4-A
20HP4-D
20DP4-C/20CP4-D
17QP4-A
17LP4-A
17HP4-B
17BP4-B
17AVP4-A
16RP4-A/16KP4-A
12KP4-A
10FP4-A
5TP4



The set of five Service Parts directories now being offered by RCA distributors are invaluable aids in servicing work—for they offer the technician concise, easy-to-follow data on each of 370 RCA Victor TV receivers produced from 1946 through 1954. In the photo at left a serviceman is shown utilizing the SP-1014.

SERVICE PARTS DIRECTORIES

Complete sets of five comprehensive RCA Service Parts directories—the SP-1007, SP-1014, SP-1021, SP-1028, and SP-1035—are now available from your RCA Service Parts distributor to provide you with an authoritative yet low-cost reference library for all RCA Victor television receivers manufactured up to 1955.

Legibly printed and bound to lie flat when open, the big (10 $\frac{1}{2}$ -inch by 16 $\frac{1}{2}$ -inch) Service Parts volumes should prove invaluable to you in your servicing work. They feature concise data on each of 370 RCA Victor TV receivers, clearly arranged to facilitate quick reference. Information on color-TV receivers and three-speed record-changers is included in the 1954 Directory.

The SP-1007 contains 80 pages with schematic diagrams and replacement parts lists for the 56 models of RCA Victor TV receivers manufactured from 1946 through June, 1950. Each schematic diagram faces its corresponding parts list for fast reference.

The SP-1014 contains 142 pages with schematic diagrams, replacement parts lists, and bottom chassis views for the 71 models of 1950 and 1951 RCA Victor TV receivers. The comprehensive index for model and chassis numbers provides a ready source of reference.

The SP-1021 contains 36 pages of schematic diagrams, wiring diagrams, replacement parts lists, and top and bottom chassis views for the 27 models of 1952 RCA Victor TV receivers. The comprehensive index cross-references RCA TV model names to model num-

bers, and model numbers to the directory in which information may be found.

The SP-1028 contains 84 pages with schematic diagrams, wiring diagrams, replacement parts lists, and top and bottom chassis views for the 108 models of 1953 RCA Victor TV receivers. It also includes schematic diagrams, replacement parts, and other information for radio chassis used in radio-TV combination receivers. Cross-referenced are: (1) model names to model numbers of all RCA Victor TV receivers from 1946 through 1953 and (2) all model numbers and chassis numbers to the directory in which information may be found.

The SP-1035 contains 72 pages with schematic diagrams, top and bottom chassis views, replacement parts lists, and top and bottom chassis adjustments for the 106 models of 1954 RCA Victor TV receivers. Also included is information on the CT-100 and the 21-CT55 color-TV receivers and the RP-197 and RP-198 three-speed record-changers. The comprehensive index references model names to model numbers of all RCA Victor TV receivers from 1946 through 1954, and all model and chassis numbers to the directory in which information may be found.

You can purchase the complete set of five RCA Service Parts directories from your RCA distributor for only \$5.35. Individually, the directories are priced as follows: 75c for the SP-1007; \$1.50 for the SP-1014; 50c for the SP-1021; \$1.35 for the SP-1028; and \$1.25 for the SP-1035.

of practically all types of octal, lock-in, and 7- and 9-pin miniature tubes. A switch permits checking continuity of tapped heaters and octal-based rectifier tubes that use pins 2 and 8 for heater connections.

The checker is powered by an RCA-VS090 (90-volt) battery. Current drain from the battery is less than 1 ma, under load, for all tube types. Consequently, battery life should approximate shelf life. Although 117 volts ac may be substituted as a power source, the convenience of a built-in supply makes the small additional expense of the battery well worth the investment.

No building instructions are given, as any small metal box or chassis can be used in building the checker.

The neon indicator used in this checker is a Postlite type 105 (Drake Mfg. Co.) which has a built-in 100,000 ohm resistor and is rated to start at 65 volts ac. If a neon or argon lamp without an internal resistor is used, an external resistor should be added. The switch can be any inexpensive 2-pole, 3-position, wafer switch.

RCA RECEIVING TUBES FOR 'Series-String' TELEVISION APPLICATIONS

For your convenience, here is an up-to-date listing of RCA receiving tubes for TV receivers with 600-ma series-connected heater strings.

All of the following new tubes have heaters designed for the same warm-up time, to minimize voltage unbalance during starting. Except for items involved in the changes of heater design, these tubes correspond electrically and mechanically to the prototypes noted.

The 32 RCA series-string receiving tubes are the following:

RCA-2AF4-A—UHF oscillator triode of the 7-pin miniature type, having a 2.35-volt/0.6-ampere heater. Prototype: 6AF4-A.

RCA-3AL5—twin diode of the 7-pin miniature type, having a 3.15-volt/0.6-ampere heater. Prototype: 6AL5.

RCA-3AU6—sharp-cutoff pentode of the 7-pin miniature type, having a 3.15-volt/0.6-ampere heater. Prototype: 6AU6.

RCA-3AV6—twin diode—high-mu triode of the 7-pin miniature type, having a 3.15-volt/0.6-ampere heater. Prototype: 6AV6.

RCA-3BC5—sharp-cutoff pentode of the 7-pin miniature type, having a 3.15-volt/0.6-ampere heater. Prototype: 6BC5.

RCA-3BY6—pentagrid amplifier of the 7-pin miniature type, having a 3.15-volt/0.6-ampere heater. Prototype: 6BY6.

RCA-3CB6—sharp-cutoff pentode of the 7-pin miniature type, having a 3.15-volt/0.6-ampere heater. Prototype: 6CB6.

RCA-3CF6—sharp-cutoff pentode of the 7-pin miniature type, having a 3.15-volt/0.6-ampere heater. Prototype: 6CF6.

RCA-4BQ7-A—medium-mu twin triode of the 9-pin miniature type, having a 4.2-volt/0.6-ampere heater. Prototype: 6BQ7-A.

RCA-4BZ7—medium-mu twin triode

of the 9-pin miniature type, having a 4.2-volt/0.6-ampere heater. Prototype: 6BZ7.

RCA-5AM8—diode—sharp-cutoff pentode of the 9-pin miniature type, having a 4.7-volt/0.6-ampere heater. Prototype: 6AM8.

RCA-5AN8—medium-mu triode—sharp-cutoff pentode of the 9-pin miniature type, having a 4.7-volt/0.6-ampere heater. Prototype: 6AN8.

RCA-5AQ5—beam-power tube of the 7-pin miniature type, having a 4.7-volt/0.6-ampere heater. Prototype: 6AQ5.

RCA-5AS8—diode—sharp-cutoff pentode of the 9-pin miniature type, having a 4.7-volt/0.6-ampere heater. Prototype: 6AS8.

RCA-5AT8—triode—pentode converter of the 9-pin miniature type, having a 4.7-volt/0.6-ampere heater. Prototype: 6AT8.

RCA-5J6—medium-mu twin triode of the 7-pin miniature type, having a 4.7-volt/0.6-ampere heater. Prototype: 6J6.

RCA-5U8—medium-mu triode—sharp-cutoff pentode of the 9-pin miniature type, having a 4.7-volt/0.6-ampere heater. Prototype: 6U8.

RCA-5X8—triode—pentode converter of the 9-pin miniature type having a 4.7-volt/0.6-ampere heater. Prototype: 6X8.

RCA-6AW8—high-mu triode—sharp-cutoff pentode of the 9-pin miniature type, having a 6.3-volt/0.6-ampere heater. No prototype.

RCA-6CG7—medium-mu twin triode of the 9-pin miniature type, having a 6.3-volt/0.6-ampere heater. No prototype.

RCA-6S4-A—medium-mu triode of the 9-pin miniature type, having a 6.3-volt/0.6-ampere heater. Prototype: 6S4.

RCA-6SN7-GTB—medium-mu twin triode of the 8-pin glass-octal type,

having a 6.3-volt/0.6-ampere heater. Prototype: 6SN7-GT.

RCA-7AU7—medium-mu twin triode of the 9-pin miniature type, having a center-tapped heater that may be operated at either 7.0 volts/0.3 ampere or 3.5 volts/0.6 ampere. Prototype: 12AU7.

RCA-12AX4-GTA—half-wave vacuum rectifier of the 6-pin glass-octal type, having a 12.6-volt/0.6-ampere heater. Prototype: 12AX4-GT.

RCA-12B4-A—low-mu triode of the 9-pin miniature type, having a center-tapped heater that may be operated at either 12.6 volt/0.3 ampere or 6.3 volts/0.6-ampere. Prototype: 12B4.

RCA-12BH7-A—medium-mu twin triode of the 9-pin miniature type, having a center-tapped heater that may be operated at either 12.6 volt/0.3 ampere or 6.3 volts/0.6 ampere. Prototype: 12BH7.

RCA-12BQ6-GTB/12CU6—beam power tube of the 7-pin glass-octal type, having a 12.6-volt/0.6 ampere heater. Prototype: 6BQ6-GT.

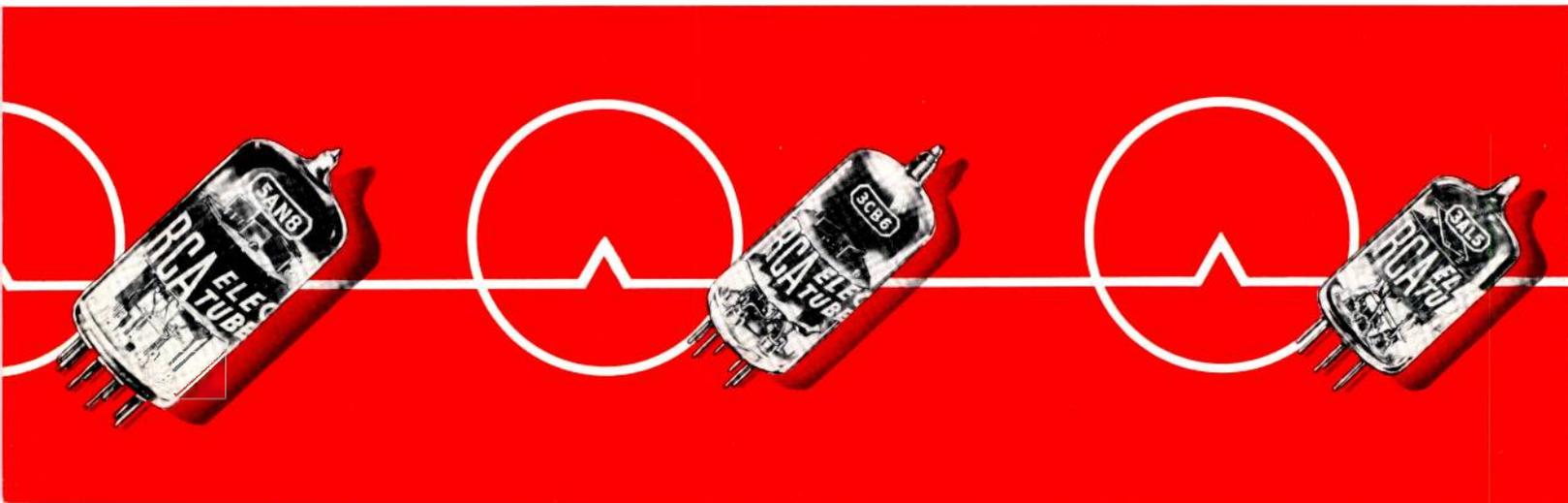
RCA-12BY7-A—sharp-cutoff pentode of the 9-pin miniature type, having a center-tapped heater that may be operated at either 12.6 volt/0.3 ampere or 6.3 volts/0.6 ampere. Prototype: 12BY7.

RCA-12CA5—beam power tube of the 9-pin miniature type, having a 12.6-volt/0.6-ampere heater. Prototype: 6CA5.

RCA-12L6-GT—beam power tube of the 7-pin glass-octal type, having a 12.6-volt/0.6-ampere heater. Prototype: 25L6-GT.

RCA-12W6-GT—beam power tube of the 7-pin glass-octal type, having a 12.6-volt/0.6-ampere heater. Prototype 6W6-GT.

RCA-25CD6-GA—beam power tube of the 6-pin glass-octal type, having a 25-volt/0.6-ampere heater. Prototype: 25CD6-G.



From RCA Service Company:

**RADIO
PHONO
TV
TIPS**

Notes on EP 45-RPM Records

A) General

"Extended Play" records have increased playing time, which is made possible by recording to a smaller inside diameter on the records. EP records may be recorded to a minimum diameter of 4.25", or 1/8" from the side of the center-post of the record player.

B) Record-Changer Pre-Tripping

The record-changer arm should trip when the stylus tip is 1-9/32" from the center-post. Record changers which are adjusted to this dimension will operate correctly with EP records.

Changers which have been improperly adjusted, or which have been adjusted to trip earlier on standard records, may trip at a diameter greater than 4.25". When this condition occurs, a tripping adjustment is necessary.

C) Review of RCA Victor 45-RPM Record-Changer Tripping Adjustments

Tripping adjustments for RCA Victor 45-RPM record-changers are shown in the accompanying diagrams at right. Before making an adjustment, cycle and test the mechanism for normal operation. If an adjustment is necessary, measure the tripping distance by any convenient method. For example, the reverse side of a stroboscope disc may be marked with a circle 1-9/32" from the center hole, or a 4-1/16" diameter circle may be inscribed about the center hole.

1) RP-168 Changer

Assemble pickup arm and trip lever assemblies as shown (Figure 1). Leave clamping screw (57) loose enough to permit trip lever to move horizontally on the shaft. Turn eccentric landing adjustment stud screw to determine outward and inward adjustment limits, and then set screw to its mid position. Hold the trip lever and move pickup arm inward or outward until mechanism trips when stylus is 1-9/32" from

the centerpost. Tighten clamping screw after determining correct adjustment.

2) RP-190 Changer

Adjust the eccentric tripping stud (C, Figure 2) until the mechanism trips when the stylus is 1-9/32" from the side of the centerpost.

3) RP-193-1 Changer

If mechanism fails to trip when the stylus is approximately 1-9/32" from the side of the centerpost, bend the end of the segment engagement gear (Figure 3) out for early tripping, and in for late tripping.

4) 930409 Changer

The EP adjustment on this changer is pre-set during manufacture. If the mechanism fails to trip, the bent-up metal tabs at either end of the trip slide (139 in Figure 4) may be bent from their normal position. The tripping distance on both EP and regular 45 rpm records will be affected by this adjustment.

Ballast Resistors

New ballast resistors used in radio and television receivers as replacements may give off smoke when first used. Because the smoke may be objectionable to a customer in the home, it is advisable that all replacement ballast resistors be operated in the shop for two to five minutes.

Grounding Metal Trim

In some models of RCA television receivers, the safety glass for the kinescope is held by a metal retainer which also serves as a decorative trim for the cabinet exterior. It is important that this metal trim be grounded through the copper strips provided in the cabinet for this purpose. When installing or servicing these receivers, make sure that all strips are properly connected.

The TV receivers to which this notice 310, 21-D-305, 21-D-317, 21-D-324, 21-D-326, 21-D-327, 21-D-328, 21-D-330, 21-T-303, 21-T-313, 21-T-314, 21-T-315, 21-T-322, 21-T-324, 21-T-342, and all corresponding models with a "U" suffix.

Of the above-mentioned models, those that include the letter "D" have a copper grounding strip that runs from the metal trim to the yoke hood support rod mounting bracket, then down to the rf tuner mounting bracket. Receiver model numbers listed above which include the letter "T" have a copper strip that runs from the metal trim to the yoke hood support rod mounting bracket, then to the top of the high-voltage compartment shield. This latter strip is secured by spring clips.

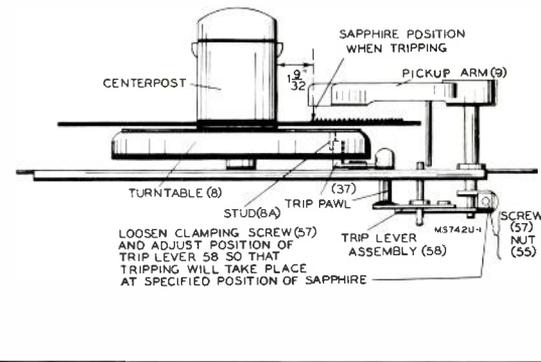


Figure 1: RP-168 Changer

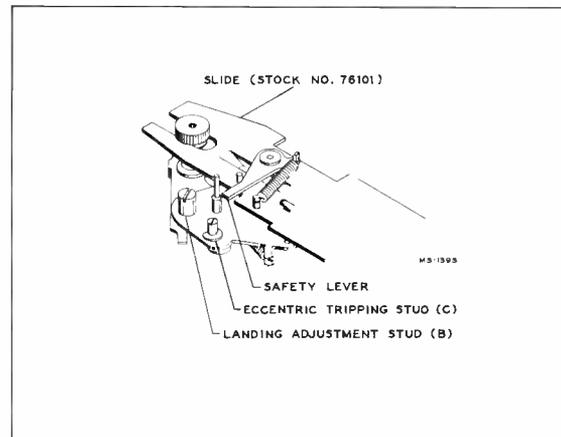


Figure 2: RP-190 Changer

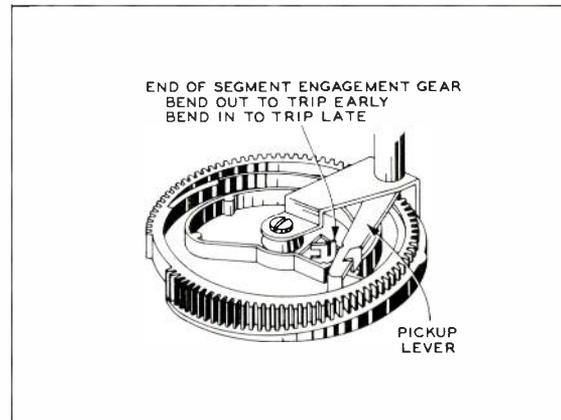


Figure 3: RP-193-1 Changer

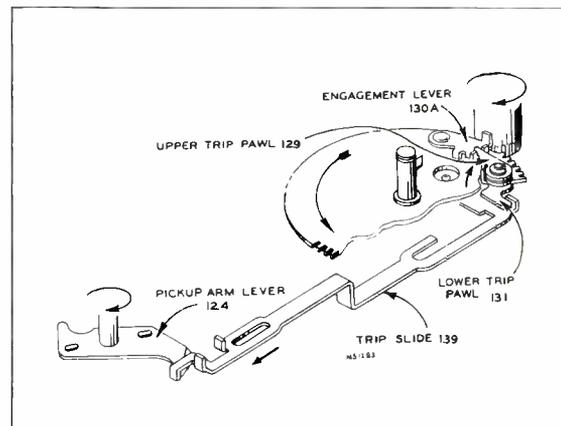


Figure 4: 930409 Changer



Sam Pelz of Sam's Tee Vee, Morgan Hill, Calif., is the lucky serviceman in the Western region who won \$1,337 worth of RCA color-TV test equipment for his originality and interest in participating in the RCA-sponsored National Television Servicemen's Week. Here, E. J. Schmidt, manager of the Electronics Division of the Leo J. Meyberg Company, RCA distributor in San Francisco, is shown congratulating Mr. Pelz (left) after presenting him with his award. Looking on is R. W. Frisbee, RCA Tube Division salesman.

8 Dealers Win \$10,696 in Awards

Complete sets of RCA test equipment for color-television servicing—each worth \$1,337—were recently awarded by the RCA Tube Division to eight service-dealers for their outstanding participations in National Television Servicemen's Week, held March 7th to 12th of this year.

Each set of equipment included RCA's WR-61A Color Bar Generator, WR-36A Dot Bar Generator, WO-78A Wide-Band Oscilloscope, WR-59C Sweep Generator, and WR-89A Crystal-Calibrated Marker Generator.

National Television Servicemen's Week, listed with the Chamber of Commerce of the United States, was established for the first time by the RCA Tube Division as a salute to American radio and TV dealers and service technicians for their efforts in bringing to the American public its greatest medium of entertainment.

Names of the NTSW contest winners, as well as the authorized RCA tube distributors who formally presented the special prizes in their respective areas, are as follows:

Southwestern region: Charles L. Griffin, Griffin Radio and TV Service, Dyer, Tenn.; Bluff City Distributing Company, Memphis.

Central region: Chic Young, Chic Young TV Engineering Service, Madison, Wisc.; Satterfield Electronics Inc., Madison.

East Central region: Jerry Rowland and Bob Jenkins, Northwest TV Sales and Service, Flint, Mich.; Shand Radio Specialties, Flint.

Eastern region: Leon Bernstein, Peak Television Service, Inc., York, Pa.;

York Radio and Refrigeration Parts, York.

Western region: Sam Pelz, Sam's Tee Vee, Morgan Hill, Calif.; Leo J. Meyberg Company, San Francisco.

Northeastern region: Andrew Balamotis, Beaudry & Monette, Inc., Lowell, Mass.; DeMambro Radio Supply, Boston.

Southeastern region: Daniel F. Owen, Owen's TV, Fayetteville, N. C.; Southeastern Radio Supply, Fayetteville.

West Central region: Hardy Rickbeil, Rickbeil's, Worthington, Minn.; Warren Radio Supply, Sioux Falls, S.D.

Editors of leading radio and TV servicing trade publications comprised the board which selected the winners

RADIO AND TELEVISION

Service News

A PUBLICATION OF THE RCA TUBE DIVISION

RCA RADIO & TELEVISION SERVICE NEWS is published in the interest of service-men and service-dealers. It is written to assist them in providing better service, and to foster the growth of their business by supplying them with information on the latest trouble-shooting and sales promotion techniques, sales and service aids, together with invaluable data on RCA tubes, transistors, batteries, parts, and test equipment.

RCA RADIO & TELEVISION SERVICE NEWS is a bi-monthly publication of the RCA Tube Division, Harrison, New Jersey.

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Daniel F. Owen (second from left) of Owen's TV, Fayetteville, N. C., receives the award of a complete set of RCA color-TV test equipment as the Southeastern regional winner in the RCA Tube Division's National Television Servicemen's Week contest. To the left of Mr. Owen is W. G. Scroggin, Jr., general manager of Southeastern Radio Supply, RCA distributor in Fayetteville. To his right (clockwise) are A. O. Ellingson, RCA Tube Division field representative; D. M. Branigan, RCA distributor sales manager, and R. I. Rothstein, general sales manager of Southeastern.

YORK, PA., SERVICEMAN IS 'KING' FOR A DAY

What with television interviews and special luncheon and dinner ceremonies, July 15th certainly was a memorable day for Leon Bernstein of Peak Television Service, Inc., York, Pa. Mr. Bernstein is the Eastern regional winner of \$1,337 worth of RCA color-TV test equipment, awarded to him for his original and interesting participation in the RCA-sponsored National Television Servicemen's Week, March 7th to 12th.

The eventful activities began at noon with a formal luncheon held for Mr. Bernstein by his local RCA distributor, York Radio and Refrigeration Parts. On hand for the luncheon were S. W. Mosebrook, sales manager of York Radio and Refrigeration Parts, and C. B. Kilian, RCA Tube Division sales representative, as well as York newspaper reporters who highlighted Mr. Bernstein, his award, and National TV Servicemen's Week in the local press.

Messrs. Bernstein and Kilian were

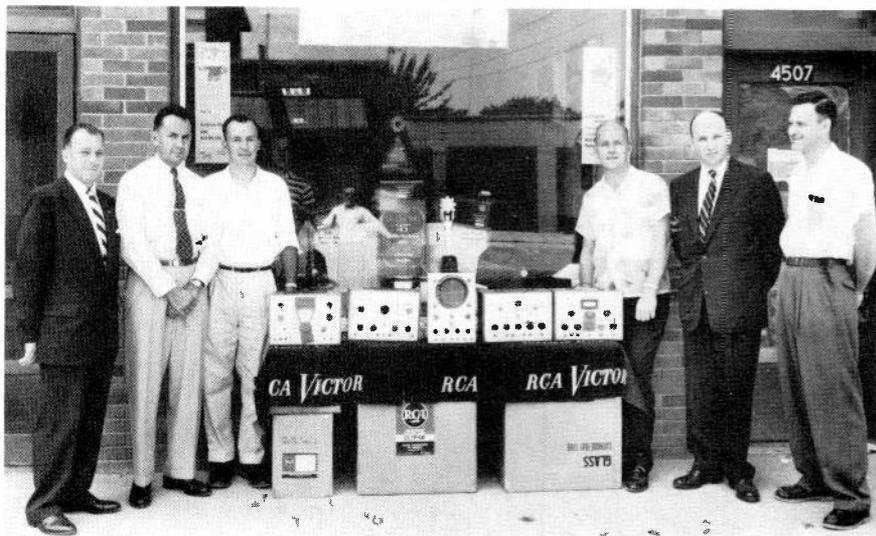
then interviewed at 1:00 p.m. by "Steve and Eve" on station WORK-TV, and at 7:00 p.m. by Otis Morse, news analyst, on station WSBA-TV.

The actual presentation of the test equipment award was held at the Yorktowne Hotel following dinner there at 7:30 p.m. On hand for the occasion: Mr. Bernstein and Robert H. Mayer, his business associate at Peak Television Service, Inc.; Joseph and Leo Hochberger, Stew Mosebrook, Tom Ryer, and Sam Hoffman of York Radio and Refrigeration Parts; F. J. Brueggemann, Secretary of the York Chamber of Commerce; Mr. Kilian of RCA; and a television cameraman from station WGAL-TV—who filmed the dinner activities. The film story on Mr. Bernstein's receipt of the RCA test equipment, along with complete details about National Television Servicemen's Week, were presented on WGAL-TV the following evening at 11:00 and on July 18th at 10:00 a.m.

noted above on the basis of the originality and interest of the participations described. The contest was open to all radio and TV service-dealers participating in National Television Servicemen's Week (who use or sell RCA tubes) and their service employees. Entrants, however, had to be residents, doing business in the continental U. S., Alaska, or Hawaii.

To have qualified for an award, a

service-dealer merely had to write a statement of 50 words or less describing how he promoted and publicized NTSW in his area. To this statement, he could attach any photographs, newspaper ads, or clippings concerning his participation. His entry—on an official entry blank—then had to be verified and countersigned by his distributor salesman before being forwarded to the RCA Tube Division.



Jerry Rowland and Bob Jenkins of Northwest TV Sales and Service, Flint, Mich., stand by the RCA color-TV test equipment which was awarded them as East Central regional winners of the National Television Servicemen's Week competition sponsored by the RCA Tube Division. The winners are flanked on the left by George Dittman, East Central distributor sales district manager of the RCA Tube Division, and John Driver of Shand Radio Specialties, RCA distributor in Flint. On their right are Jack Leahy, RCA Tube Division salesman, and Dick Anderson of Shand.

New Battery Types Announced by RCA

Three new RCA battery types were recently announced to help you satisfy customer requests. They are the VS219—which rounds out RCA's popular series of "slim-jim" radio "B" batteries; the VS060—RCA's latest addition to its line of portable radio "AB" battery packs; and the VS074—RCA's newest penlite cell.

The VS219 is a 90-volt battery designed for use with RCA's VS065, a 7½-volt "A" battery. You can expect great sales potential from this battery complement which finds its primary application in current Motorola portable radios. The VS219 is interchangeable with the Eveready 479, Burgess P60, and other batteries identified by NEDA No. 214.

The VS060 has a 5-pin recessed plug and is designed primarily for replacement use in new Zenith portable radios. This RCA battery pack is interchangeable with the Zenith Z775, Burgess T5Z50P, and other battery packs identified by NEDA No. 431.

The VS074 is a small version of the VS034 and is useful in pen-sized flashlights and for miscellaneous toy applications. It is interchangeable with the Eveready 912, Burgess 7, Ray-O-Vac 400, and other cells identified by NEDA No. 24.

It will profit you to have an ample stock of the three new RCA batteries on hand to fulfill your customers' replacement needs. So order a good supply of these types today.

RCA-237D1 Supersedes 219D1

The RCA-237D1, a completely new 90-degree deflecting yoke applicable to picture tubes of various sizes up to and including 27 inches, is now available from your RCA distributor. The 237D1 supersedes the older type 219D1 and offers the advantages of smaller size, lighter weight, and lower cost—with no sacrifice of performance.

Because the coils of this yoke consist of precision-shaped, distributed windings of a modified cosine design, uniformity of focus is maintained over the entire kinescope screen, thereby assuring good side and corner resolution. The 237D1 employs a ferrite core to provide high deflection sensitivity. In addition, protection from breakdown due to high peak voltages between coils is provided by the use of molded insulation between the horizontal and vertical coils.



POSTAGE

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Tube Division
Harrison, N. J.

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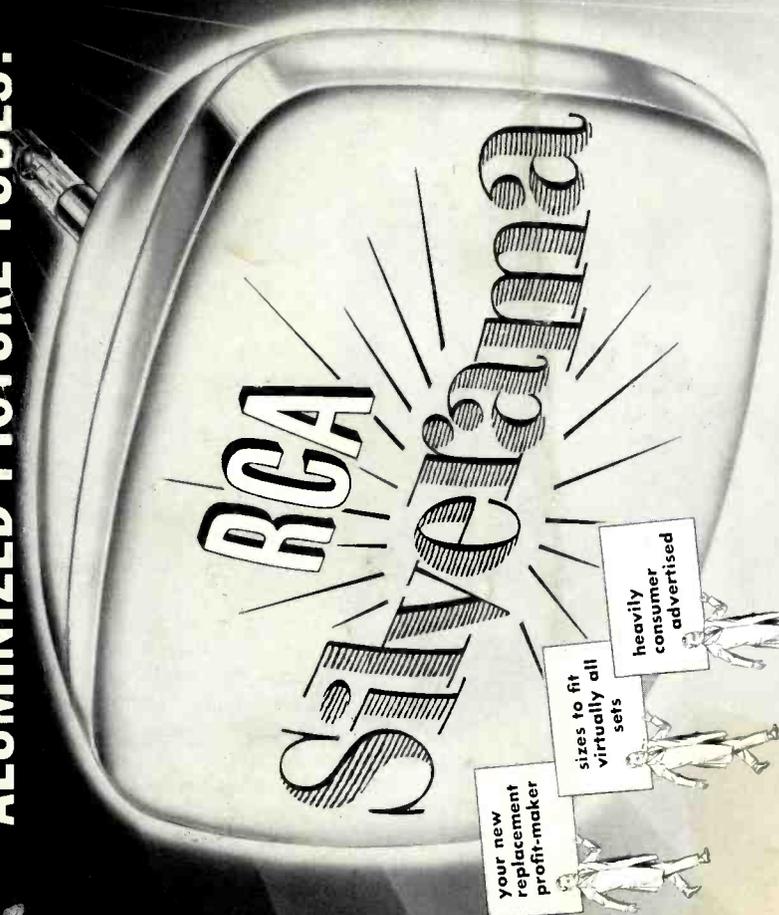
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