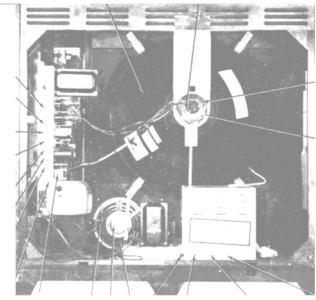
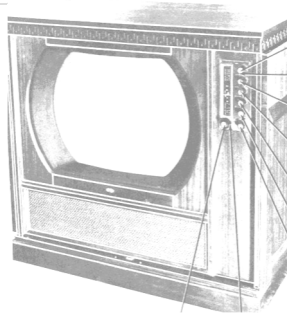


July 2026

Volume 3 Number 7



WHAT'S NEW IN OLD TVS

The Newsletter of the Early Television Foundation

Greetings Early Television Fans,

This is Volume 3, Number 7 of the Early Television Foundation Newsletter. **The next Zoom meeting is on July 25 at 8 PM . Newcomers Always Welcome**

The calendar says we're getting to the end of July, but it seems we've been getting August weather since June. Is the heat and humidity getting you down? Does it seem like that heat dome is suspended right over your head and following you around? Steve McVoy tells us that where he is, in the mountains of Colorado, there have been record braking temperatures. What a great time to crank up the AC and settle in to restoring that old TV that's been sitting on your workbench. As the summer doldrums drag on, Steve reports that membership and sweepstakes ticket sales have slowed, so he is offering bonus tickets and membership cost goes to half for the remainder of the year. Read on for the story of my family's first color TV and more about the 21" RCA 21CT55 and the 21AXP22 color picture tube. You can get your tickets
NOW !!

We want to hear from you !

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In This Issue:

The sweepstakes prize the RCA 21-CT-55 21" color TV

My Favorite TV:
Editor Mike Molnar
remembers his family's
first COLOR TV

Join or Renew
your Membership

Many
2025 members
need to renew

We are always looking for:

- **Letters** from members
- **Tech Tips** from service experiences
- **My first TV** (family stories?)
- **My favorite TV** (and why)
- **Stories** of working in the business.
- **Articles** that can be added in whole or in parts.

This Year's Sweepstakes Grand Prize The RCA 21-CT-55

RCA **COLOR** TV with 21AXP22 CRT

As Black & White CRTs grew in size, RCA knew that a big screen Color CRT was needed if Color TV was going to sell.

The answer was the 21AXP22



21AXP22



ntroduced by RCA in 1955. This was the first 21 inch tube manufactured for sale, and was used in almost all 1955-57sets.

- [Development of a 21 Inch Metal-Envelope Color Kinescope](#)
- [Deflection and Convergence of the 21 Inch Color Kinescope](#)
- [Recent Improvements in the 21AXP22 Color Kinescope](#)

RCA had the CRTs ready before the CTC 4 TV's were ready, so they built the 21-CT-55. You can learn more about this CRT on the ETF website

Specifications of 21AXP22

These CRTs used a metal funnel that was bonded to glass. RCA must have resolved the issues that caused many 15GP22s to go to air, as that was not such an issue with the 21AXP22

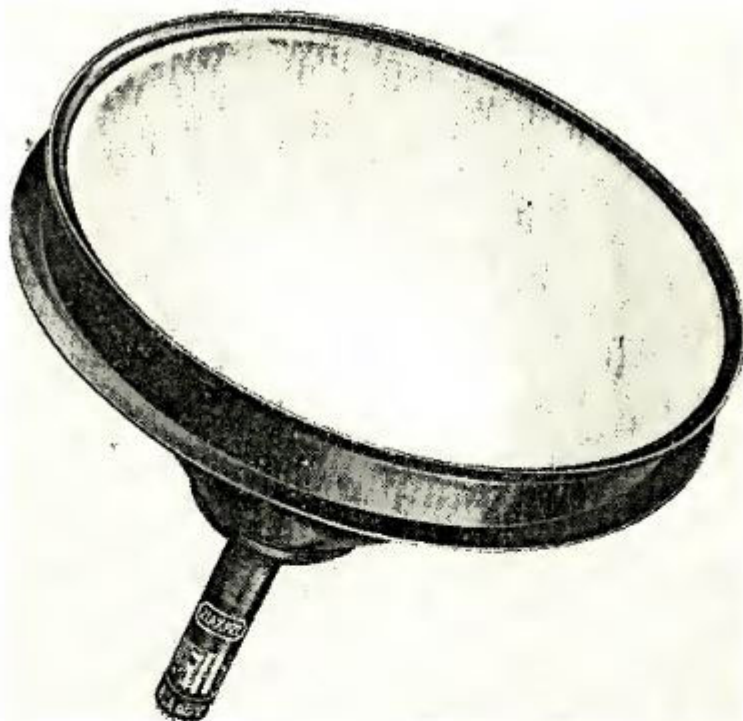
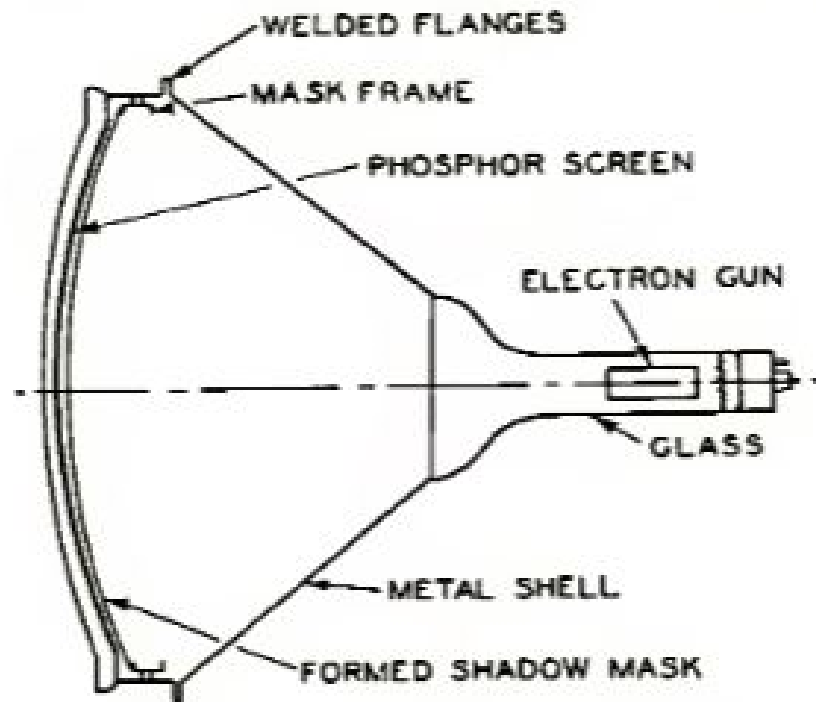


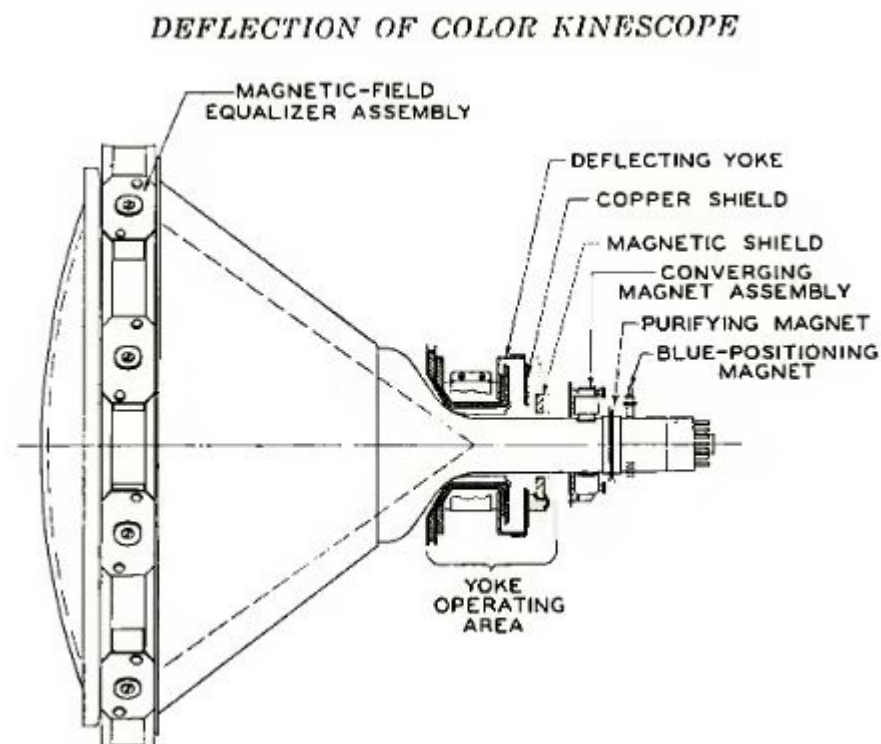
Fig. 1—Photograph of 21AXP22 color kinescope.

Table 1

	BLACK-AND WHITE KINESCOPE 21ZP4-B	COLOR KINESCOPE 21AXP22
Picture Dimensions (Min.)		
Area	245 sq. in.	260 sq. in.
Width	19-1/8 in.	19-5/16 in.
Height	14-3/16 in.	15-1/4 in.
Tube Dimensions		
Width	20-3/8 in.	—
Height	15-11/16 in.	—
Diagonal or Diameter	21-11/32 in.	20-11/16 in.
Over-all Length	23-13/32 in.	25-3/8 in.
Deflection Angle (Diagonal)	70°	70°
Weight	24 lbs.	28 lbs.



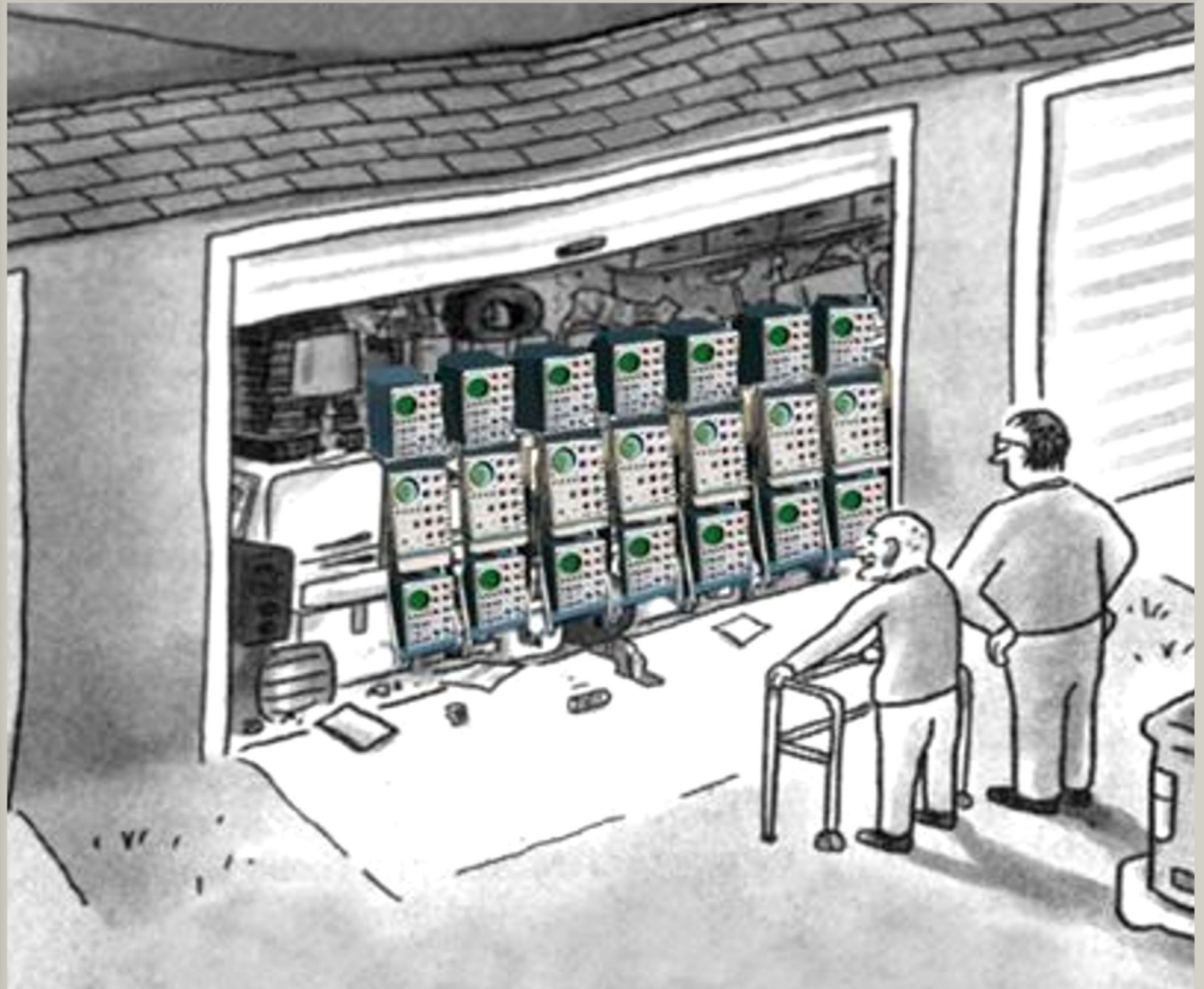
RCA had to develop a new deflection system and dynamic convergence and more high voltage for the new 21AXP22



The 21AXP22 also used what many say are better phosphors than later tubes. Just look at this actual screenshot from Marshall Wozniak's 21CT55.



With a picture like this, the sweepstakes computer should overheat from generating tickets. Don't miss out on Steve's ticket bonus offer



"One day Son, all this will be yours."

I borrowed this from the NJARC communicator.
It can also be viewed as a message, from
some of us, to the next generation,
“be afraid, be very afraid”

My Family's First Color Television

submitted by Mike Molnar

I was only a pre-teen when I first saw a Color TV and I was amazed at the technical miracle right before my eyes. We went to visit a cousin of mine, at a time when people invited friends over on a Sunday night to watch Bonanza In color. It was an Admiral Roundie and I remember staring close to see the tiny color dots on the screen. I remember wondering how the red, green and blue dots could combine to make yellow. Nobody there had an answer. At that time, I became committed to getting a color tv into our living room, no matter how much I had to work at it.

I found that there wasn't much someone my age could do except become an expert pest. I thought they would soon get that color TV just to shut me up. I produced a steady stream of hints about all the new color shows that were coming on in the fall. The World Series would be in color and for Dad, he worked hard and deserved to also see his favorite football games in color. Well it was a very long time before the day came. Maybe my Dad hit a number with the local bookie. However he came into the extra money, we went TV shopping. Everyone had someone in their family who knew someone that could get you a good deal on something. In our case, my uncle knew that man at the TV shop in the next town, so off we went.

I knew Early American furniture was important to my Mom and a low price was important to Dad. They had the solution for us. They were now DuMont dealers and not only could we get the right cabinet but they could save us money by not choosing the pricy 25" set but a new 23" set and still get that DuMont quality. When the set arrived I was sure to observe all of the adjustments, so that soon I could do them myself and the picture was great. It even had a knob to tint a black and white show.

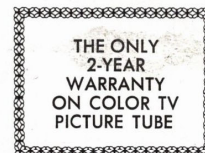


DuMONT

COLOR TELEVISION

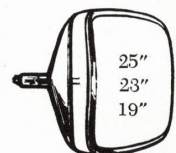
I recently came across this
DuMont Sales Brochure
with our 23" model TV

EXCLUSIVE FEATURES ARE CHARACTERISTIC OF DuMONT QUALITY



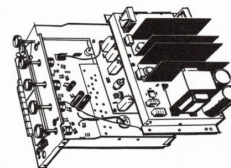
DuMont, exclusively, offers twice the warranty of anyone else in the industry on its color picture tube plus a full year warranty on all parts. This extra performance assurance is one of the pleasures of owning DuMont.

BONDED SHIELD HIGH FIDELITY COLOR TUBE



...with rare-earth phospho for brightest, most realist color with truer reds, sharp contrast in color and black and-white ... reflection/glar free/dust-proof tube face.

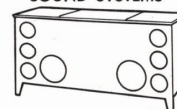
INTEGRATED SOLID STATE STEREO FM/AM TUNER AND DUAL CHANNEL AMPLIFIER...with full power transformer design for higher efficiency and cooler operation of FM/AM radio with FM Multiplex and stereophonic phonograph.



Full-power, ultra-sensitive, all-transistorized stereo tuner with FM and AM Accutronic Visual Tuning and Automatic Frequency Control provides finest reception on the complete FM & broadcast bands.

All-transistorized amplifier circuitry with most advanced components assures flawless, distortion-free sound reproduction.

MATCHED STEREO SOUND SYSTEMS



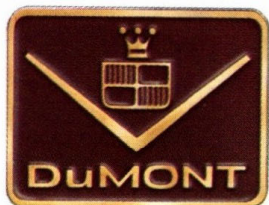
Superb total audio coverage with perfectly-matched high-fidelity speakers, precisely positioned in heavy, acoustically-designed all-wood sound chambers

FINE FURNITURE CABINETRY



Magnificent authentically styled period and contemporary cabinets, custom-crafted of genuine veneers and solid

The Custom Collector Series



The history of DuMont is the history of television itself. In the almost three decades since DuMont pioneered the very first commercial set in 1938, this one name has contributed so importantly to the development of the television receiver that today "DuMont" and "television" are synonymous. DuMont — backed by this unparalleled experience and offering the most advanced engineering, components and features — assures the finest viewing and listening, in superb cabinetry world-famous for its fine-furniture beauty and authenticity. Now, more than ever before ...in color and black-and-white television, in stereophonic high fidelity, in all the world of home entertainment — there is nothing quite like a DuMont.



THE HYANNIS II . . . with authentic Early American styling in compatible genuine maple veneers and solids. Dimensions: 38½" wide, 30" high plus 2" gallery, 17¼" deep*.

*Plus 4¼" for protective back and picture tube cap.

23-inch Color TV

with 268 square-inch viewing area

ELEGANT CONSOLES IN
DISTINGUISHED
COMPACT CABINETS,
SUPERBLY CRAFTED IN
EVERY DETAIL.

SPECIFICATIONS

New rare-earth phosphors Short Neck Bonded SI Color Tube — with exclusive 2-year warranty — recessed cabinet depth by inches for more convenient wall placement — provides brightest, most realistic color with sharper contrast in both color and black-and-white • Exclusive Automatic Color Monitor for color image by degaussing • All 82-channel UHF/VHF reception • Color Fidelity Control for perfect black-and-white tonal adjustment • Full power transformer chassis with 25,000 volts of peak power insures optimum reception in all areas • Multi-speaker sound system.

My Family's First Color TV by Mike Molnar

As time went on, we found that the TV suffered more than the average number of service problems including replacing the picture tube, a 23EGP22. It was required that I keep several feet away from the older service man so as not to bother him. He struggled to see, sometimes putting a second pair of glasses over the other. Very often he took the chassis with him and we would wait impatiently until it returned. In later years, as I was servicing TVs, I learned a little about our DuMont. As the DuMont company failed, their TV business was bought by Emerson, a manufacturer of low cost sets. I also found that the chassis was a low cost version of an RCA CTC 16 and that the 23EGP22 CRT was a poor performer and I replaced many of them for people over that time period. But the family enjoyed the TV. Bonanza was still on every Sunday and somehow the red, green and blue dots made yellow.



A DuMont by any other name
just might really be an
Emerson