



OVRC Meeting

February 10, 2021

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Overview

- Administrivia
- Greg's column on Antennas
- Barry's column on Audiophile
- Lea's column on Vintage TV
- General Electric Radios

Next Month: Your Canadian Career.

- Inspired by John Gilbert. There are Canadian inventions and personalities that should be appreciated and celebrated and preserved.
- Tell us about your Canadian career in radio, TV, electronics, policy, military, entertainment.
- Or, tell us about your unsung Canadian technology hero.
- This is a chance to brag.
- Also a chance to highlight little-known Canadian technology. Significant work should be recorded in the newsletter for posterity.
- Keep it to about 10 minutes.
- Mike Parent has agreed to facilitate this meeting. We would appreciate knowing who plans to present, and you are welcome to send your stuff in advance. Contact Mike at cd529@yahoo.com .

OVRC YouTube Channel

- Greg has created the OVRC YouTube channel.
- Go to YouTube.com and search Ottawa Vintage Radio Club (not OVRC).
- You can contribute to this channel, but you need a password.
- Please subscribe!
- More to come!

CONTEST:

My Life as a Radio Guy/Girl

Contest: How I was Introduced to Antique Radio

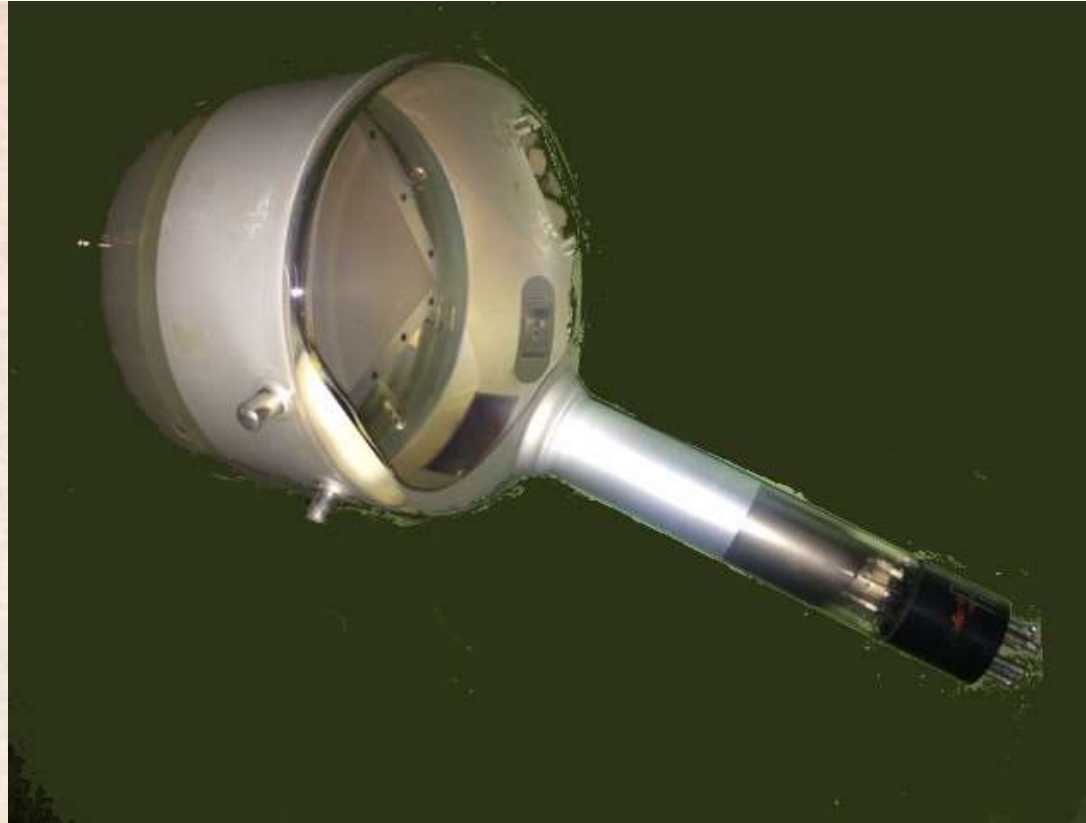
- **Lea Barker** is sponsoring a contest for the best essay about “How I was Introduced to Antique Radio”
 - Entries can be in English or in French.
 - The length of your entry should be roughly 500 words.
 - Essays will be assessed by the OVRC exec (who may not participate!) on originality (i.e. no plagiarism), style, uniqueness, overcoming adversity (e.g., lack of funds, rural location), and possibly how the early interest led to a career.
 - We will publish all entries received, beginning with those awarded the 1st, 2nd and 3rd prizes.
- See, for example, Gord Rabjohn's article in Winter 2007 issue of the OVRC newsletter: “The Birth of a Radio Man.”
- **Lea Barker** is supplying the prizes, which are (see photos):
 - Two working WD11 tubes;
 - Working RCA type 1850A iconoscope TV camera tube;
 - Western Electric type 2A phototube, circa 1930.
 - *Prize must be picked up in-person in Ottawa (it is too difficult to ship fragile glass).*
- Send entries to ovrcpres@gmail.com before Sept. 30, 2021. Winner will be announced December 2021.

The Prizes for Lea's Contest

A pair of good WD11's.



RCA type 1850A iconoscope TV camera tube,
works!



Western Electric type 2A
phototube, circa 1930.



First prize gets first choice
Second prize gets second choice
Thanks, Lea!

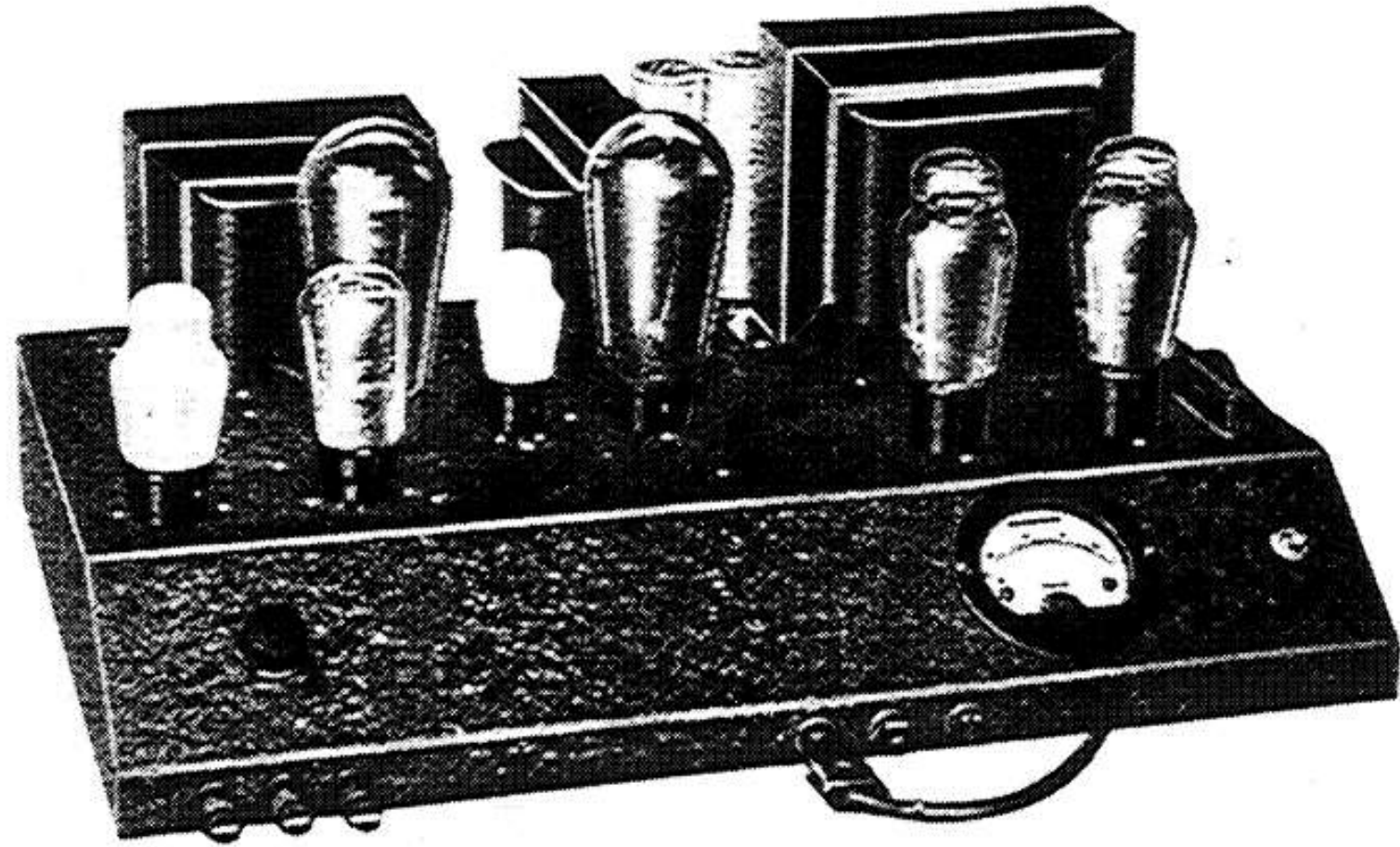
Monthly Column: Antennas

Greg Heppenstall



Monthly Column: Audiophiles

Barry Paulson



Audiophile Links

- Amplifier [Gold Electrohome Amplifier](#)
- Partridge Transformer [Partridge Transformer](#)
- Electrohome Catalogue [electrohome stereophonic high fidelity cover.jpg](#)
- Electrohome Monoblock [electrohome-pa100-monoblock-tube-power-amplifiers.jpg](#)
- Electrohome PA-100 Instruction Page [Electrohome Instructions.jpg](#)
- Arbitor Vintage Tube Amp Head [arbiter-vintage-tube-amp-head-uk-partridge-transformers/27376009](#)
- Partridge Amp [Partridge-England-300B-PP-Tube-Power-Amplifier](#)
- Leak TL-12 Monoblock [leak-tl12-monoblock-valve-amplifier-270261559](#)

the williamson amplifier

by D.T.N. Williamson

Introduction ...

Basic Requirementspage 7

Alternative Specifications
(April 1947)

Details of Chosen Circuit and Its Performancepage 11

(May 1947)

New Version

Design Data:page 14

Modifications: Further Notes
(August 1949)

Design of Tone Controls and Auxiliary Gramophone Circuitspage 20

(October and November 1949)

Design for a Radio Feeder Unitpage 30

(December 1949)

Replies to Queries Raised by Constructorspage 33

(January 1950)

Modifications for High-impedance Pickups and Long-Playing Recordspage 34

(May 1952)

PARTRIDGE AMPLIFIER CIRCUITS

(Manual courtesy of Philip Taylor, Billingshurst, U.K.)

Partridge 2W Battery Amplifier Design	page 3
Partridge 6W A.C.-D.C. Amplifier Design	page 5
Partridge 12W P.A. Amplifier Design	page 7
Partridge 12W Quality Amplifier Design	page 9
Partridge Economy 28	page 12
Partridge 30W Amplifier Design	page 16
Partridge 45W Amplifier Design	page 20
Partridge Two-Stage Pre-Amplifier Design	page 24
Notes on Amplifier Construction	page 28

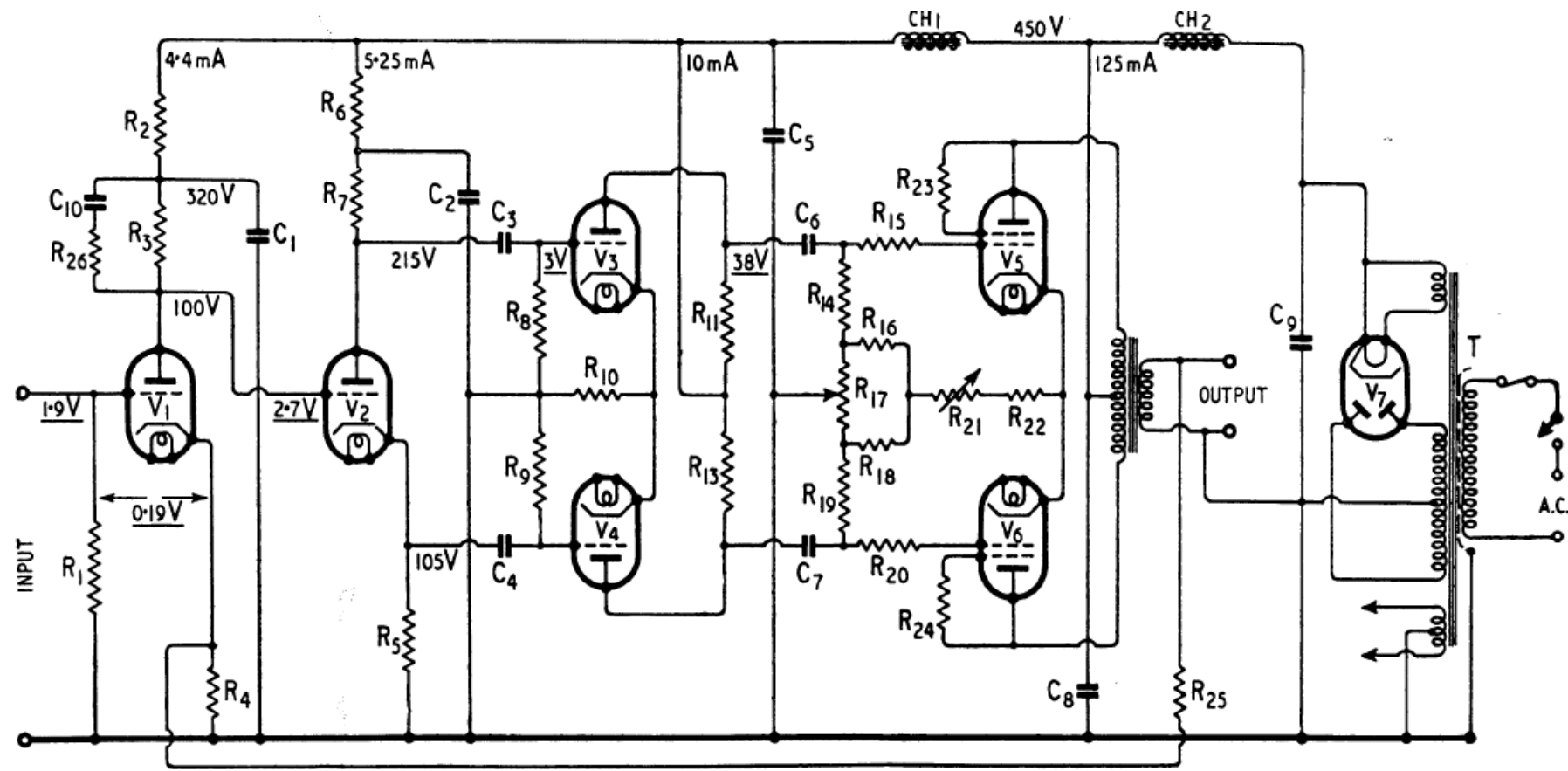


Fig. 1. Circuit diagram of complete amplifier. Voltages underlined are peak signal voltages at 15 watts output.

R_1	1M Ω	$\frac{1}{4}$ watt $\pm$ 20%
R_2	33,000 Ω	1 watt $\pm$ 20%
R_3	47,000 Ω	1 watt $\pm$ 20%
R_4	470 Ω	$\frac{1}{4}$ watt $\pm$ 10%
R_5, R_7	22,000 Ω	1 watt $\pm$ 5% (or matched)
R_6	22,000 Ω	1 watt $\pm$ 20%
R_8, R_9	0.47M Ω	$\frac{1}{4}$ watt $\pm$ 20%
R_{10}	390 Ω	$\frac{1}{4}$ watt $\pm$ 10%
R_{11}, R_{18}	47,000 Ω	2 watt $\pm$ 5% (or matched)

R_{14}, R_{19}	0.1M Ω	$\frac{1}{4}$ watt $\pm$ 10%
R_{15}, R_{20}	1,000 Ω	$\frac{1}{4}$ watt $\pm$ 20%
R_{16}, R_{18}	100 Ω	1 watt $\pm$ 20%
R_{17}, R_{21}	100 Ω	2 watt wirewound variable
R_{22}	150 Ω	3 watt $\pm$ 20%
R_{23}, R_{24}	100 Ω	$\frac{1}{2}$ watt $\pm$ 20%
R_{25}	1,200 Ω	$\sqrt{\text{speech coil impedance}}$ $\frac{1}{4}$ watt (see table)
R_{26}	4,700 Ω	$\frac{1}{4}$ watt $\pm$ 20%
C_1, C_2, C_5, C_8	8 μ F	500V wkg.
C_3, C_4	0.05 μ F	350V wkg.

C_6, C_7	0.25 μ F	350V wkg.
C_9	8 μ F	600V wkg.
C_{10}	200pF	350V wkg.
CH ₁	30H at 20mA	
CH ₂	10H at 150mA	
T	Power transformer	
Secondary 425-0-425V 150 mA, 5V. 3A, 6.3V 4A, centre-tapped		
V_1, V_2	2 $\times$ L63 or 6J5, 6SN7 or B65	
V_3, V_4	do. do.	
V_5, V_6	KT66	
V_7	Cossor 53KU, 5V4	

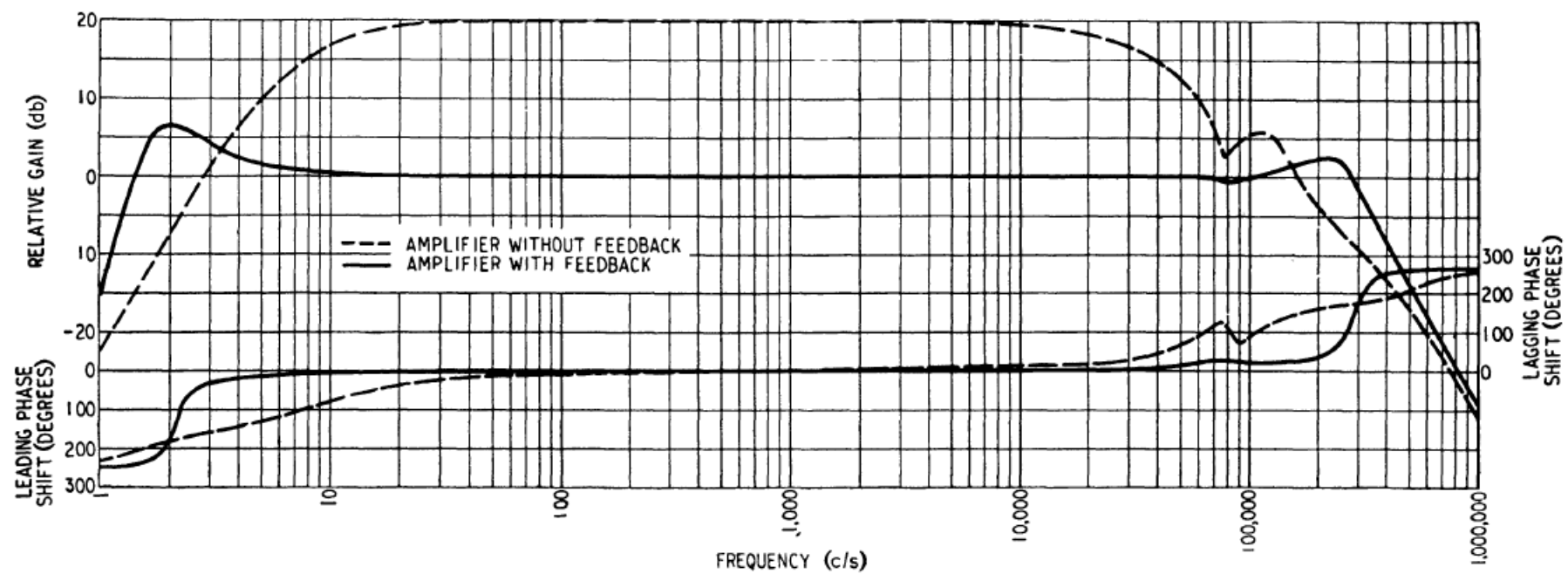


Fig. 2. Loop gain and phase-shift characteristics of the amplifier.

Monthly Column: Arcane Television History

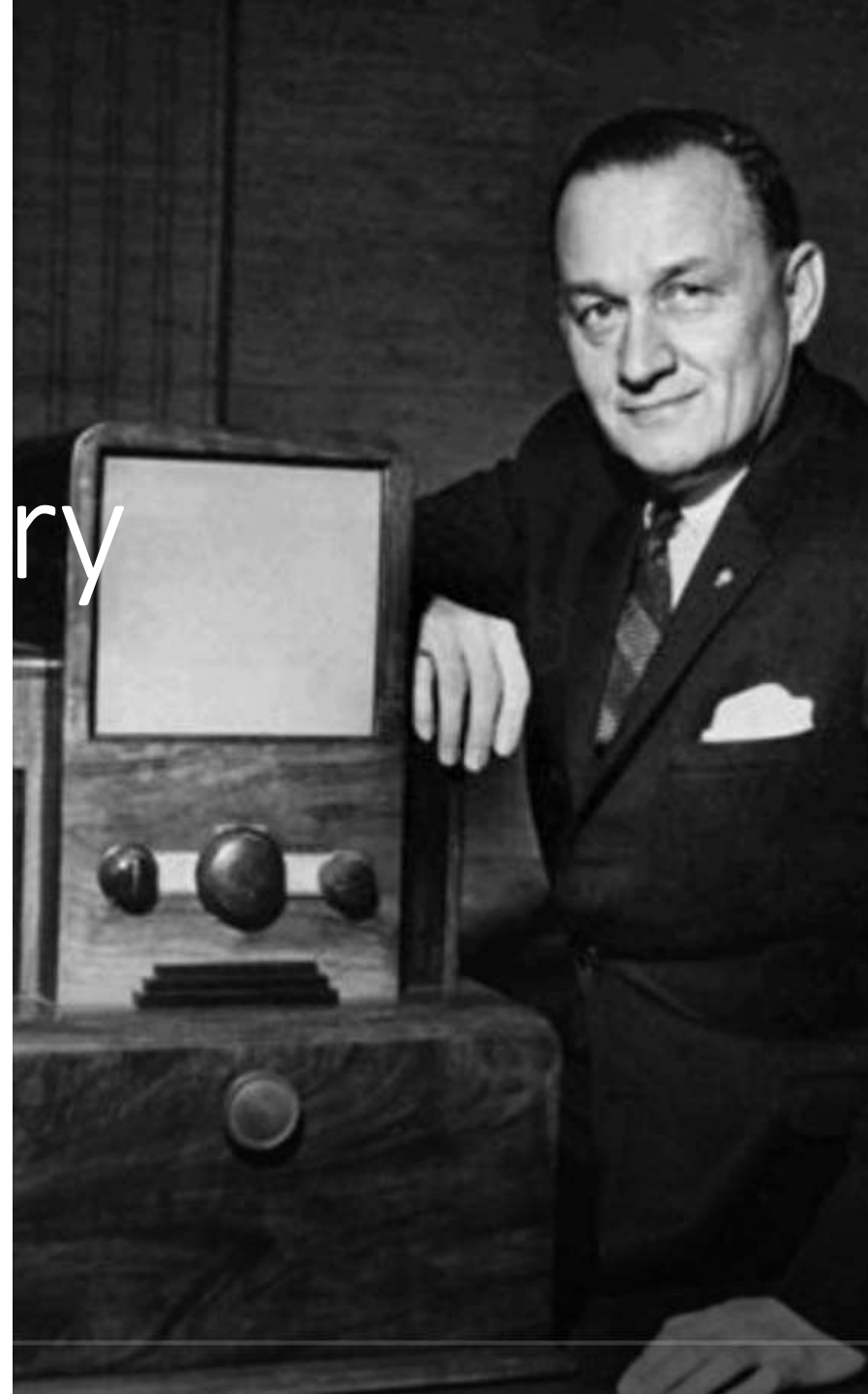
Lea Barker

Canadian TV Pioneers:

Joseph-Alphonse Ouimet

Francois Henroteau

William Hoyt Peck



Gord's 6U5 Replacement Project

- A 6U5 replacement using 120 green LEDs and a “Bar-Graph” chip.
 - Same size as a 6U5.
 - Fits into a 6U5 socket without any set modifications.
 - Looks like the real thing (as long as you have poor eyesight).
 - Unlimited lifetime.
 - Also replaces 6E5, 6G5, 1629, 6AF6G (though it is longer than a 6AF6G).
- Inspired by a challenge from Gordon Hamilton.
- Details coming to the OVRG green newsletter.
- Or, check out rabjohn.ca/gord/projects

Solid-state 6U5
No Diffuser



Solid-state 6U5
With Diffuser



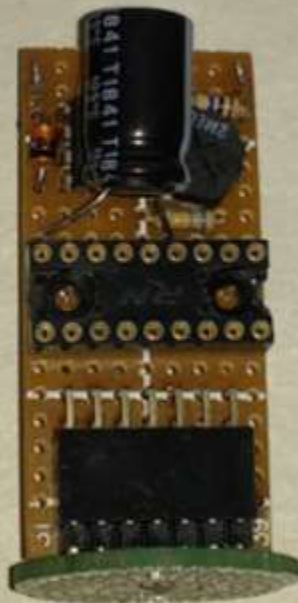
Real 6U5



Real 6U5s



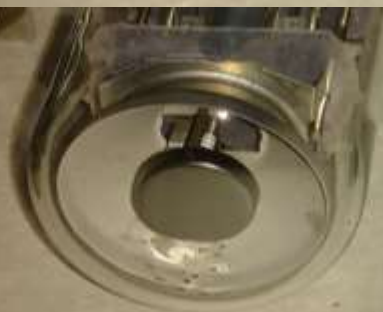
First
Prototype

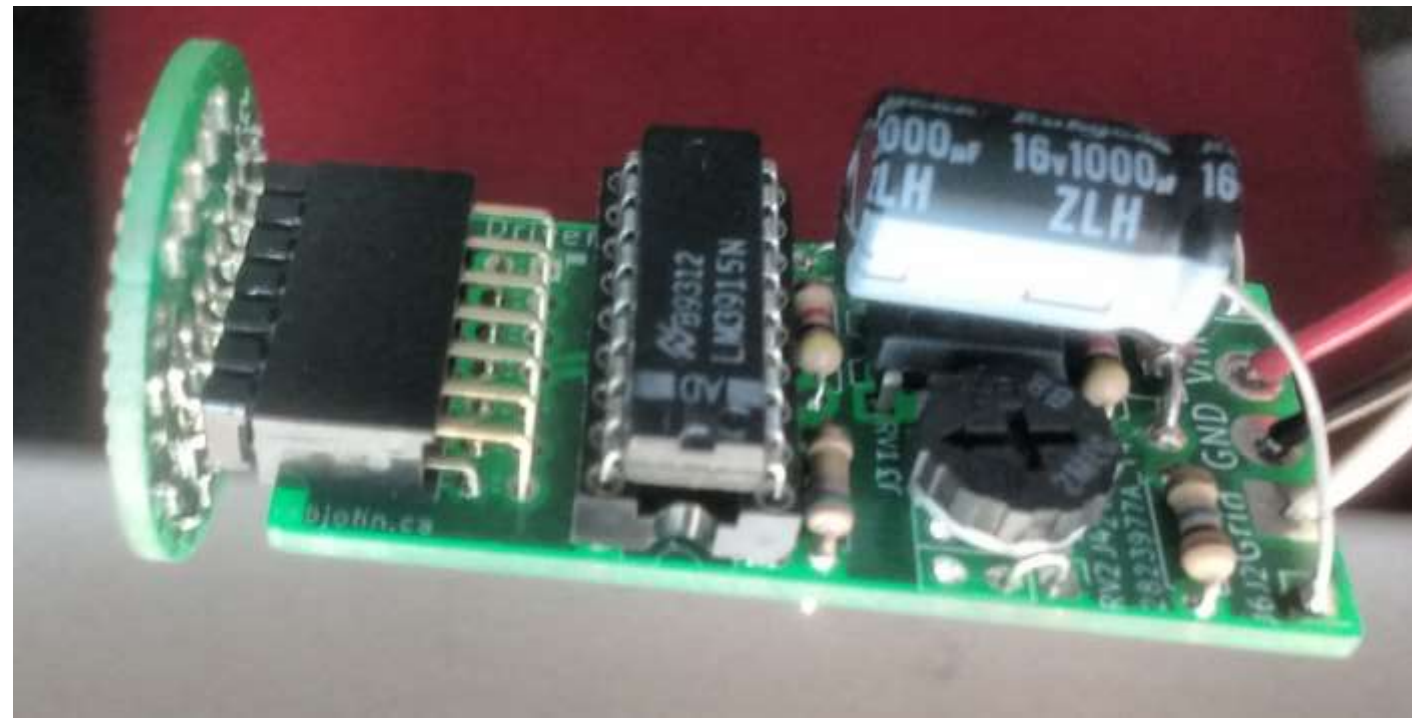
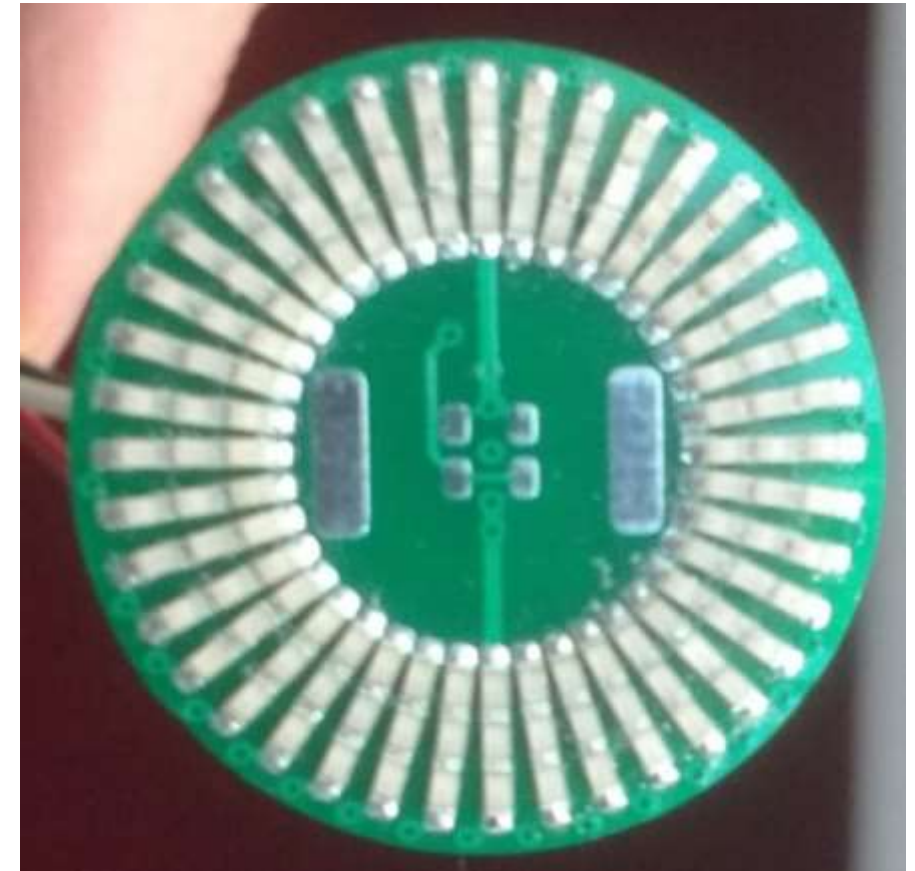
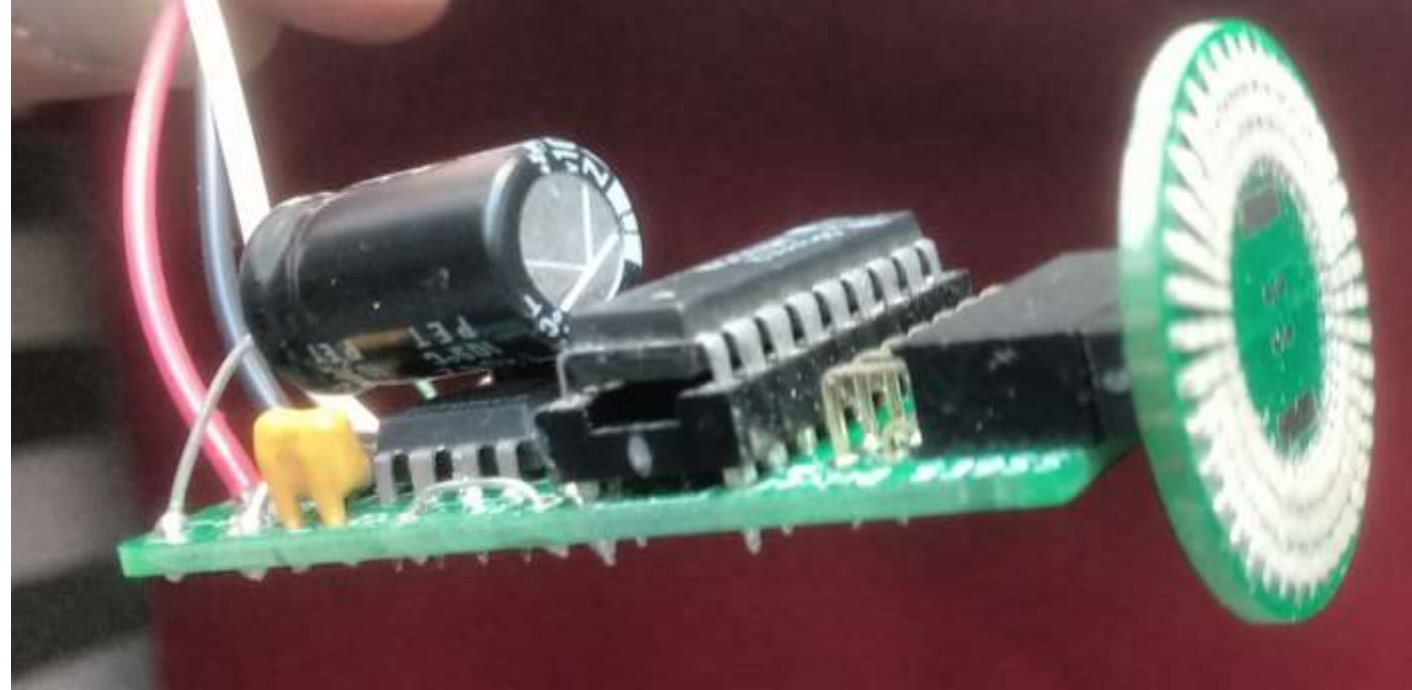


Second
Prototype



Second
Prototype
With Diffuser







Canadian General Electric



1891-1900



1900-1934



1934-1970



1970-1986



1986-2002



2002-2004



2004-present

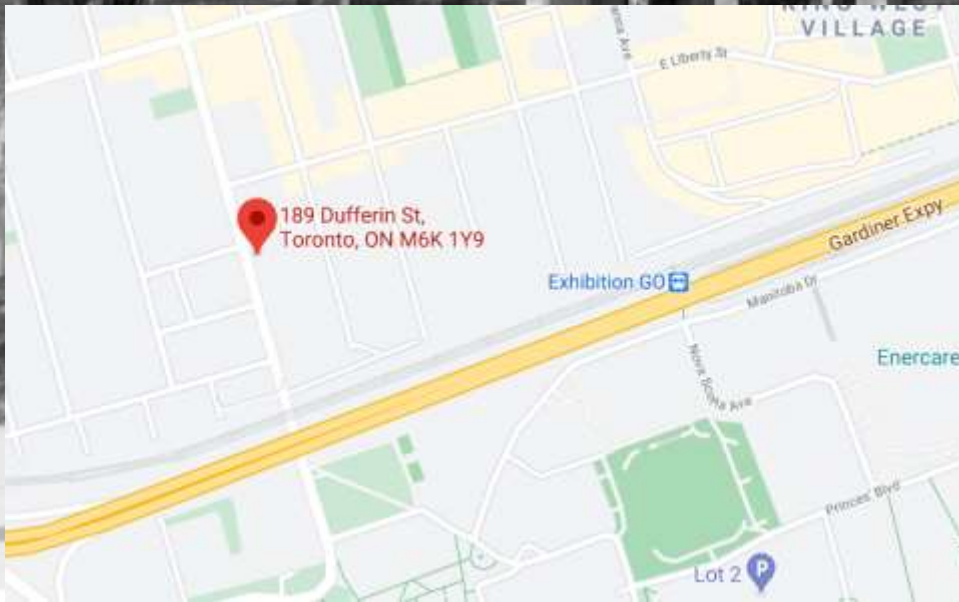


GE History Highlights

- GE is a huge company with a complex history. Here are the highlights.
- Roots go back to the “Wizard of Menlo Park” Thomas Alva Edison. Edison General Electric (formed in 1889 by a merger of several other Edison companies) specialized in DC equipment. When it was clear the AC was the superior system, this company merged with AC rival Thompson-Houston (in 1892) to form General Electric. (Financed by J.P. Morgan himself). Edison no longer involved.
- CGE (Canadian) was created (by a similar merger) in 1892, Peterborough, Ontario, mainly doing motors. (there they remained until 2018)
- GE bought American Marconi (for nationalistic reasons), and RCA was created in 1919 to hold the patents of GE (Marconi), Westinghouse, AT&T, and the United Fruit Company. ← Much political intrigue in this story! (Note that Canadian Marconi remained untouched)

GE Canada History

- GE's vacuum tube plant opens in Toronto in 1921. 189 Dufferin St, Toronto (Just north of the Gardiner Expwy.) . Building is still there.
- "Canadian Radio License Agreement" was also concluded in 1923, It was signed by Canadian companies CGE, Marconi, Westinghouse ,Bell Telephone, Northern Electric , International Western and, Rogers Majestic.
- In the process of creating the patent pool (like RCA in the US), the GE tube plant became RVC (Radio Valves Canada) in 1923, that supplied tubes for GE and Canadian Marconi.



RVC building in 2019



RVC, circa 1944



GE History Highlights

- RCA did not initially manufacture their own radios. Rather, GE and Westinghouse did the manufacturing (which is why you will find similar radios branded with GE and Westinghouse).



GE Canada

- Before ~1930 GE radios were marketed by RCA Victor, though the CGE logo was sometimes present.
- After 1931, GE radios were sold in the normal manner.
- The GE “Royce Works” at 830 Lansdowne between Dupont and Davenport (near “The Junction”) built all CGE radios. Royce site was in operation between 1904 and 1981. (City of Toronto arch
- GE sold this in 1985. Building is no longer standing.





JULY 25-1923. LANSDOWNE AVE FROM SOUTH C.G.E.



9177 Subway - Lansdowne Ave., north of Royce Ave. Apr.23/32.

City of Toronto Archives, Series 71, s0071_it9177



Conventional Radio—lacks color and richness. Something is missing.



FM Radio by General Electric—you hear the tones in all their "natural color" and beauty.

CARMEN MIRANDA—currently appearing in "SOMETHING FOR THE BOYS," a 1946 Century-Fox Technicolor production.

Carmen Miranda's voice in natural color — a thrill only FM radio captures!

More exciting . . . more charming . . . more "sing" than ever! You hear her sing with a living, breathing realism unmatched on any other radio. This is Carmen Miranda on "natural color" FM!

Compare this with conventional radio—which misses more than half the overtones. Tone color is lacking. It is radio only in "black-and-white."

But General Electric FM (Frequency Modulation) is radio in glorious "natural color"! You hear thrilling new tones as Carmen Miranda sings—full and perfect overtones that give her voice its dynamic appeal—vital tones that also endow each musical instrument with its own personality. And only when

you hear these overtones can you experience all the delight and inspiration music was meant to give.

This is General Electric FM radio in "natural color" . . . reception of unequalled clarity and realism, now virtually free from static and station interference . . . your after-Victory radio.

General Electric built the first FM sets for the public . . . operates its own FM broadcast station . . . and is the only manufacturer to build FM complete . . . from station equipment to the radio set for your home. This unmatched experience in FM is your assurance that the coming General Electric Frequency Modulation will embody all that's best in radio.

FREE! A fascinating booklet, "YOUR COMING RADIO," 28 pages profusely illustrated in full color. Previews an entirely new kind of radio that reduces static to the vanishing point . . . Radio-phonographs that reveal music on your records you have never heard before . . . Self-charging portables that eliminate expense of frequent battery replacements . . . Latest advances in television . . . No matter which General Electric model you prefer, its G-E program will stand for the highest quality in tone, style, performance . . . all at popular prices. For your free copy of "Your Coming Radio," mail a postcard to Electronics Department, General Electric, Schenectady, New York.

How the G-E radio program: "The World Today" news, Monday through Friday, 9:45 p. m., EFT, CBS. "The G-E All-Girl Orchestra," Sunday 10 p. m., EFT, NBC. "The G-E House Party," Monday through Friday, 4 p. m., EFT, CBS.



GENERAL ELECTRIC

FIRST IN RADIO, TELEVISION AND ELECTRONICS

FM RADIO

By Curtis Publishing Company, Indianapolis, publisher of The Saturday Evening Post. - The Saturday Evening Post, Public Domain, <https://commons.wikimedia.org/w/index.php?curid=50693799>



Burgandy red model 605 or Cactus green model 606 \$36.95



GENERAL  ELECTRIC
Syracuse, New York

**New GE Radios
lead a double
life –
Indoors and
Outdoors**

*All-year portable
radios*



Burgandy red model 610 or Cactus green model 611 \$46.50

You get more fun

Play it all you please... It's self-charging!
General Electric's De Luxe Portable Radio
renews its power over and over again.

Yes, there's lots more fun because you can recharge this G-E Portable's battery anywhere there's an a-c outlet... or from your car battery. So you can use it as freely as your radio at home. You can play it on house current too, like any table set, even while recharging.

Just look at these amazing features: push button controls to help bring in U.S. and foreign stations clear. Famous G-E natural color tone. Built-in charger. Rugged military construction, and die-cast aluminum case that's light as can be. See and hear it today at your General Electric radio dealer's.

natural color tone radios

GENERAL  ELECTRIC
LEADER IN RADIO, TELEVISION AND ELECTRONICS
Syracuse, New York

MONICA LEWIS,
popular star of radio and
Signature Records



*G-E self-charging
portable radio*



THIS TINY BATTERY DOES IT
It's an alkaline type battery with 18 months' guarantee. The visible indicator tells when the battery is fully charged... and when to recharge.



2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 26

STEWART, M. 1982.

1. *Journal of the American Medical Association*, 1997; 278: 1021-1025.

discuss. Clipping will be free for you when you reply by giving a complete new Street Name, Type or Range, and at your nearest district's division.



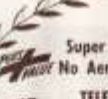
PAUSE STOP

品類と用途別

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LAUREN NATHANSON

GENERAL ELECTRIC
PLAY  THEATRE
Radios



Super BEAM-A-SCOPE
No Aerial! No Ground!

TELEVISION Audio
Or Phonograph KEY!

DYNAPOWER SPEAKER
With the New Miracle
Magnet!



MODEL H-83



MODEL K-11A

Super Beam scope • Television Audio or Photograph Key • 14-inch Dynapower Speaker • 9 Feathertouch Tuning Keys • Floodlight Station Finder • Vannular Dial • Drift-proof Station Settings • Tone Selector • Tone Monitor Circuit • Automatic Tone Compensation • 8 Tubes • 3 Bands • 340-1600 and 2400-22,000 kc. • Automatic Volume Control • 10 Watt Output • Size: 41 inches high, 30 inches wide, 36 1/2 inches deep.

Super Bass-a-matic • Television Audio or Photograph Key • 14-inch Dynapower Speaker • 11 Feathertouch Tuning Keys • Floodlighted Station Finder • Vocoder Dial • Drift-proof Station Settings • Tone Selector • Tone Monitoring Circuit • Automatic Tone Compensation • Cathode-ray Tuning Indicator • 11 Tubes • 3 Bands • 540-1600 and 2300-22,000 kc. • Automatic Volume Control • 10 Watts Output • Sings 40, 400, 4000, 40,000, 400,000, 4,000,000 cycles

MODEL H-77

Super Beam-scope • Television Audio or Photograph Key • 12-inch Dynaflex Speaker • 9 Feather-touch Tuning Keys • Vuxuslux Dial • Drift-proof Station Settings • Tone Selector • Tone Monitor Circuit • Automatic Tone Compensation • 7 Tubes • 3 Bands • 550-1600 mc • 2250-22,000 kc. • Automatic Volume Control • 5 Watts Output • Size: 18½ inches high, 28½ inches wide, 13½ inches deep.

MODEL H-625

Build-in Beam-oscope • 12-inch Dynapower Speaker • 4 Feather-touch Tuning Keys • Airplane-type Dial • Tone Monitor Circuit • 6 Tubes • 2 Bands • 550-1500 and 3700-18,300 kc. • Automatic Volume Control • Size: 17 inches high, 27½ inches wide, 10 5/16 inches deep.



LET YOUR EYES AND EARS DECIDE!



UNLESS you have heard one of the new General Electric Radios with FM, you have no idea how astonishingly real and life-like radio can be.

FM, of course, is Frequency Modulation—the new type of broadcasting that brings you pure music virtually free of all static.

Every General Electric FM Radio is built in accordance with the genuine Armstrong FM patents. It's radio at its best! You hear all the rich overtones you miss in conventional radio—overtones that give music its life and color.

Don't have only "half-a-radio". Get a New G-E. Then you can be sure of getting unsurpassed reception not only of FM but of all programs.

Here's the Kind of Radio You'll Want in '42!



Don't Have Only "Half-a-Radio"—Get a G-E and You Get All This!



And This! Finer Domestic Reception—Since FM demands higher standards of radio design, the new G-E radio gives you much finer reception of all programs. Because single-unit design that receives FM also brings you the standard and sureware broadcasts.

And This! Finer Frequency Modulation—With FM, as built by General Electric, you hear overtones that bring music to life—overtones that conventional radio cannot bring you. G-E gives you genuine Armstrong FM that practically eliminates static.

And This! More Powerful Short Wave—Programs direct from Europe and South America come in many times stronger than before. The new General Electric Radio has 2 to 3 times as much short wave sensitivity as previous models.

And This! Better Reproduction of Records—General Electric's featherweight, micro-amplifier supplies crystal and accurate surface noise. Records last indefinitely. The G-E automatic record changer plays records a full hour.

Get the News Wherever You Go! G-E SELF-CHARGING PORTABLE

Has Its own Storage Battery

You can play it all you please. No battery replacement worried! It self-charges while it plays on AC house current. Ingenious flip-up beam-scope provides stronger reception in planes, trains and other difficult locations. Ask the G-E dealer for a demonstration.



What is FM? Write for the free G-E booklet that tells in simple language the complete story of this marvelous new method of broadcasting. General Electric, Co., Div. RC-282, Bridgeport, Conn.

General Electric Radio is a complete line of radios and radio-phonographs, from \$13.95. Prices subject to change without notice. See your General Electric Radio dealer.

GENERAL  ELECTRIC



Hollywood Flash!...

Susan Hayward's

going steady...



...with her

GE Portable radio

SUSAN HAYWARD, co-starring in Warner Bros.' "TAP SOOTS," color by Technicolor, a Universal-International Release.



• Pays Off Every Time You Play It Triple-value portable. Plays on AC, DC, batteries. Glorious tone. Rings in radio stations like a big set at home—styled like fine airplane loggers. Big Dynapower speaker. A joy to own! Model 254 TW, at left.

• Do luxe Self-Charging Portable with 5 Short-Wave Bands! Renew its power over and over when plugged into AC house current—or connected to auto battery. Push button controls. Natural color panel! A world of selectivity! Model 260, at right.



natural color tone radios

GENERAL ELECTRIC

Some prices slightly higher. No contract to change without notice.



• With the people who are up-and-coming—a G-E Portable goes hand in hand. Take this sleek new hussy and you take the finest of traveling companions. Smart, trusty, powerful—styled as brilliantly as a Hollywood fashion! Take a good look at this eye-arresting, maroon-plaited it—and feel its zest. Play it—no AC, DC, or batteries—and marvel at its selectivity. Buy it—and take fun with you. Ask your dealer for more.

General Electric Company, Radio Division, Electro-Mechanical Park, Syracuse, N.Y.



NOT *our* CGE Radios!

Compagnia Generale Di Elettrocita (Milano)



too bad...



- Jack Welch

Good old Santa Claus  *he has the right idea..*

Christmas shopping will be far less time when you go to the place to which you should have General Electric Radio as Christmas gift or your present desire's destination.

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Gord's GE Radios



Model H-53
5-tube AC set.







Model C103
5-tube AC set.





Radiola Balanced Amplifier,
goes with Radiola 3

Radiola 3





Super 650



GENERAL  ELECTRIC
BROADCAST RECEIVER
Model C403
MADE IN U.S.A.

