

## COMPLETE INDEX

Vol. 1, No. 1 through Vol. 15, No. 4



	Vol.	No.
AFC Circuits "Horizontal" AFC Circuits	2	2
AGC Circuits		
Addition of A.G.C. to G-E 805 series T and S Correction for Overload "U2" Receivers	2	4
Video Detector, A.G.C. and Video Amplifier	10	6
Anti-Static Cleaner and Polish		
TV Anti-Static Cleaner and Polish ETR-3390	14	4
Audio Test and Repair Bench		
Construction Details	15	2
Bias Supply for TV		
Construction Details	12	5
Business Aids	1	
A complete selection of various dealer business aids.	15	4
Capacitors		
New G-E Service Designed Capacitors Capacitor Kits	13 13	1 3
Capacitor Substitution Boxes		
Construction Details	2	6
Color Box		
Color TV	6	2
Color TV		
Part I — Color Reproduction Part II — Construction of a Color Box Part III — Visible Spectrum and	6	6 2
Chromaticity Charts Part IV — Development of Color Signals	6	3 4
Part V — Color Signal Frequencies and Balanced Modulation		,
Part VI — Vectors	6	5 6
Part VII — Development of Chrominance Signal	7	1
Part VIII — Color Signal Phase and		
Amplitude and Burst Signal Part IX — Gamma Correction, Delay Lines	7	2
and Block Diagram of Transmitter	7	3
Part X — Aperture Mask and Post Acceleration Type Picture Tubes	8	2
Color Receivers		
Part I — Tuner and Video 1-F Amplifiers Part II — Video Detectors and Video Am-	9	2
plifiers Block Diagram and Schematic for		
General Electric "CL" Color Receiver Part III — Burst Gate, Subcarrier Generation, Synchronous Detectors and	9	3
Chroma Amplifiers	9	5
Part IV — Matrixing Circuits and Aperture Mask Tube	10	1
Part V — Mechanical Adjustments on		
Aperture Mask Tube Part VI — Vertical Sweep and Convergence	10	2
System	10	3
Conversion to Larger Picture Tubes		145
G-E Model 811, Admiral Model 4H16S G-E Model 809, RCA Model 730TV2	2 2	5 6
G-E Model 820, Philco Model 48-1001	3	ĭ
G-E Model 12C101, Stromberg-Carlson Model TV-12	3	2

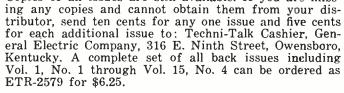
		1
G-E Model 802, Capehart-Farnsworth Model 651P G-E Model 10C101, RCA Model KRS-20 G-E Model 910, RCA Model 630TS to 14 inch G-E Model 815, Motorola Model VF-102 Motorola Model 12VT16 RCA Model 630TS to 20 inch D-C Restoration D-C Restoration and Sweep Circuits Easy Open-Easy Out Tube Carton New G-E Tube Carton	Vol. 3 3 3 4 4 4 1 11	No. 3 4 5 6 1 2 6 4
Field Strength Meters UHF Antenna Installations Five Star Tubes Characteristics and Prototype Receiving Tube	6	4
FM Stereo Multiplex Tuner Modifications  G-E Service Policy Statement G-E TV Service Policy Statement	14 11	2
Germanium Diodes Germanium Diodes in Video Detectors  Horizontal Circuits  D-C Restoration and Sweep Circuits Deflection Waveforms and RF Supplies Excessive Width — "M4" Excessive Width — "U2" Horizontal AFC Systems Horizontal Deflection Circuits and Kickback Power Supplies Horizontal Jitter — "M4" Horizontal Retrace Elimination Circuit Kill that Retrace — Horizontal	2 1 2 11 10 2 2 11 4 2	3 6 3 3 5 2 4 4 2 6
Replacement Sweep Transformers G-E Horizontal Phase Detector (4 Parts)  How Electronic Components Are Made and Tested  Reduce Call-Backs with New G-E 6AX4  Birth of a TV Bulb  How G-E 110° Picture Tubes are Made How G-E Picture Tube Phosphors are Made How G-E Receiving Tubes are Tested	11 14 5 15 1 15 11 10 12 11	, 2
How G-E Semiconductors are Made How G-E Service Designed Tubes are Made How G-E Transistors are Made G-E Expands Syracuse Picture Tube Plant G-E Tubes are 3 to 4 Times Better New G-E Copper Core Anode Material New G-E 23" Picture Tube New G-E Sandwich Cathode New G-E Electron Gun No More Loose Top Caps G-E Develops New Heater Wire How to Build	11 11 10 12 15 13 12 12 13 14 14	3 1 5 3 3 5 6 2 6 1
Bias Supply for TV Servicing	12	5

	Vol. No.		Von No.
Capacitor Substition Boxes Color Box Complete Service Shop Picture Tube Tester Resistor Substition Boxes Service Bench Transistor Radio Power Supply Transistor Tester HV Rectifier Filament Voltage Tester Stereo/Audio Test and Repair Bench Hum or Buzz Hum or Buzz in TV Receivers I Hum or Buzz in TV Receivers II Stereo Hum Problem (5 Parts) Sync Buzz — "U-2"	2 6 6 2 8 4 5 1 2 5 3 1 13 2 10 6 15 1 15 2	Radio — Repeated Silicon Rectifier Failure Radio — C435 and T125 No Audio Radio — P115, P165 Loose Tuning Knobs Radio — P675 and P720 Current Readings Radio — P710, P711-A Circuit Revisions Radio — P715, P765 Antenna Support Radio — P715, P765 Intermittents and Motor Boating Radio — P715, P765 Loose Leatherette Radio — P745 — Low Sensitivity Radio — P745 and P750 Circuit Changes Radio — P755 Oscillation and Distortion Radio — P755 and P805 Voltage Readings Radio — P780 Troubleshooting Radio — P820A, P821A, P822A Trouble- shooting	15 3 12 5 14 3 10 6 12 4 11 5 13 2 11 5 11 5 10 5 11 5 11 4 14 4
Indian Head Test Pattern Tele-Clues No. 181 thru 188	6 3	Radio — P835A, P840A, B and P870A Isolation Radio — P870 Dial Slippage	$\begin{array}{ccc} 15 & 1 \\ 15 & 2 \end{array}$
<b>Lead-In</b> Various Types — VHF and UHF	5 2	Radio — RP1120 and AS2 Tone Improve- ment Radio — T105, C405, 875, 930 Excessive Volume	11 4 14 3
Noise Canceller Circuits "EE", "H", "J" and "O" Receivers "G" and "K" Receivers "S", "ST", "U" and "U2" Receivers	10 5 10 6 11 1	Radio — T120 Dial Cord Breakage Radio — T120 No AM Radio — T120 No AM on l.f. End of Band Record Changer — CH10 Speed Control Record Changer — Repair Support	12 1 11 2 11 1 11 1 14 1 14 2
Oscilloscopes A Valuable Service Tool-1 Cathode Ray Oscillograph (2 Parts) Selecting an oscilloscope for TV servicing  Phono Cartridges G-E "Golden Classic" and "Stereo Classic" Stereo Hi-Fi Cartridges Variable Reluctance Stylus Wear	15 4 2 3, 4 1 3	Rectifiers G-E Silicon Controlled Rectifiers May Revolutionize the Electrical Industry New General Electric Germanium TV Rectifiers with Replacement Guide 400 MA Germanium TV Rectifier IN1008 400 MA Germanium TV Rectifiers IN1008 and 1016	11 2 9 1 9 3 10 5
Considerations  Picture Tubes  G-E Reliability Improved  Aluminized Picture Tube Replacement  Guide	1 6 15 3 5 5	Remote Control Systems Adjusting Reed Relay Contact Points G-E Wireless Remote Control System (6 Parts) G-E Sonic Remote Control System (5 Parts)	14 2 12 1-6 13 5, 6
Open Heaters Due to Arc-over Picture Tube Tester — Construction Details TV Picture Tube Warranty and Adjust-	7 5 5 1	Replacement of 21AP4 with 21ZP4-B Replacement of 21AP4 Metal with 21ZP4-B Aluminized Glass Picture Tube	14 1,3,4 7 6
ment Policy New General Electric 21FLP4 Replaces 13 Popular Type Picture Tubes Protecting Picture Tube Testing Newer Type Picture Tubes	10 5 13 5 14 5 13 6	Resistor Substitution Boxes Construction Details Retrace Elimination	2 5
Power Tuning TV — "U-2" Power Tuning Repairs	10 6	Horizontal Retrace Elimination Circuit Kill that Retrace — Horizontal Kill that Retrace — Vertical	$\begin{array}{cccc} 4 & 2 \\ 2 & 6 \\ 1 & 4 \end{array}$
Printed Circuits Servicing Procedures and Tools Cracked Boards and Arc-over Servicing and Servicing Aids	11 3 11 4 11 5	SemiConductors New Service-Designed Entertainment Types Service Aids	14 1
Profit Program  New G-E Profit Program Streamlines Your Tube Sales for Fast Turnover, Top Volume!  New G-E Profit Program	11 4 11 5	Bench Mirror ETR-1275 Capacitor Tab Adjuster ETR-2968 Compactron Sockets ETR-2975 Fuse and Heater Checker ETR-981A Magnetic Swing-Beam Service Light	14 6 14 6 14 6 14 6
Radio Service Manuals Radio — 1946-1961 Radio Service Guide ETR-2975 Radio — 1961-1962 Radio Service Guide ETR-3733	15 3 15 3	ETR-1593 Multi-Tube Pin Straightener ETR-3200 Paper Bags-2, 4, 10 and 14 Lb. Sizes Picture Tube Pillow ETR-1469 Rear Control Extension ETR-2089 Safety Glass Puller ETR-1592 Sagrice Cell Paper ETR-15144	14 6 14 6 15 4 14 6 14 6
Radio Service Notes Radio — Fading and Intermittents Radio — G-E "Silent Partners" Save Service Time Radio-Motorboating in Transistor Radios Radio — Removing Large Components	13 1 13 3 12 2 15 1	Service Call Board ETR-2144 Service Drop Cloth ETR-1021A Soldering Gun Holder ETR-2582 Soldering Iron Holder ETR-2790 Soldering Tool ETR-2377 Techni-talk Binder ETR-2000 Tele-Clue Binder ETR-1095	14 6 14 6 14 6 14 6 14 6 15 1 15 1

	Vol. No.		Vol. No.
Tool Toter ETR-2338 Tube Puller ETR-1094 Twin-X Wrench Set ETR-752 Wire Stripper ETR-2376	VOL. NO.  14 6 14 6 14 6 14 6	No. 17 thru 24 No. 25 thru 32 No. 33 thru 40 No. 41 thru 48 No. 49 thru 56	2 1 2 2 2 3 2 4 2 5 2 6 3 1
Service Cases  Matched Service Cases  Plastic Tool Cases	14 6 15 3	No. 57 thru 64 No. 65 thru 72 No. 73 thru 80	2 6 3 1 3 2 3 3
Service Shop Plans A Plan for Success (Complete Service Shop) Make Your Own Service Bench	8 4 3 1	No. 81 thru 88 No. 89 thru 96 No. 97 thru 104 No. 105 thru 112 No. 113 thru 120	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Signal Generators  AM Signal Generator in Place of Cross-Hatch Generator G-E ST-16A Color Alignment Generator I-F Alignment I I-F Alignment II	4 2 8 6 1 6 2 2	No. 121 thru 128 No. 129 thru 133 No. 134 thru 140 No. 141 thru 148 No. 149 thru 155 No. 156 thru 162 No. 163 thru 170	4 4 4 5 1 5 3 5 4 5 5 6 6
Stereo/Audio Test and Repair Bench Construction Details	15 2	No. 171 thru 180 No. 181 thru 188 No. 189 thru 194	6 2 6 3 6 5
Snivets Description and Photos	7 3	No. 195 thru 202 No. 203 thru 207 No. 208 thru 213	7 2 7 3 7 5
Snow TV Receiver Noise	4 1	No. 214 thru 221 No. 222 thru 228 No. 229 thru 235	9 5 10 1 10 3
Sparker Sparker to Check for "Gas" or "Air Leaker"	5 1	No. 236 thru 240 No. 241 thru 251 No. 252 thru 262	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Speakers TV — Speaker Phasing	11 4	No. 263 thru 273 No. 274 thru 284	11 4 12 1 13 6
Stereo Components Variable Reluctance High Fidelity Cartridges	10 5	No. 285 thru 295  Tele-Clue Schematics  "LW" Chassis "I Y" Chassis	13 1
Stereo Hum Problem  Description and Correction (6 Parts)	11 1-6	"LX" Chassis "MM" Chassis "M-4" Chassis	$ \begin{array}{cccc} 14 & 1 \\ 8 & 3 \\ 10 & 5 \end{array} $
Successful Service Management Dealer Modernization — H. B. Nelson Planning for Success in the Soaring Sixties — Andrew E. Kimball Profile of the "Boss" — L. M. Robb "Swim — or Sink!" — G. E. Burns The Interrelation of Large and Small Business — Senator J. Sparkman You and Your Customers — W. F. Greenwood Promote Your Business — F. J. Nataly	11 3 12 2 11 6 10 5 11 2 11 4 12 4	"M-5" Chassis "M-6" Chassis "MW" Chassis "MX" Chassis "N" Chassis "QX" Chassis "S" Chassis "U" Chassis "U" Chassis "U-4" Chassis "U-5" Chassis	11 6 12 4 13 5 14 5 7 1 15 2 8 1 8 4 10 6 11 5 12 5
The Four C's of Credit — K. E. Kenny Small Marketers Aids — A U. S. Government Service Friendly Tips at Income Tax Time —	12 5 12 6	No. 1 thru 5 No. 6 thru 10 No. 11 thru 15	2 1 2 2 2 3 2 4
V. R. Dahlgren  Sweep Transformer Replacement  TV — "EE" Sweep Transformer	13 1	No. 16 thru 20 No. 21 thru 25 No. 26 thru 30	2 4 2 5 2 6 3 1
Replacement	11 1	No. 31 thru 35 No. 36 thru 39 No. 40 thru 43	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Sync Signals and Circuits Synchronizing Pulses and Circuits	2 1	No. 44 thru 47 No. 48 thru 51	3 4 3 5
Techni-Talk Index Complete Index of Techni-talk Vol. 1, No. 1 thru Vol. 10, No. 2—by issue Complete Index of Techni-talk Vol. 1, No. 1 thru Vol. 15, No. 4—by subjects	10 2 15 4	No. 52 thru 55 No. 56 thru 58 No. 59 and 60 No. 61 No. 63 and 64 No. 65	3 6 4 1 4 4 4 6 5 3 5 4
Tele-Clue Index Tele-Clues from Vol. 1, No. 1 — Vol. 12, No. 6 Indexed by Circuit	12 6	No. 65 thru 67 No. 68 and 69 No. 70	5 5 5 6 6 3
Tele-Clues  No. 1 thru 8  No. 9 thru 16	1 5 1 6	No. 71 No. 72 and 73 No. 74 and 75 No. 76	$\begin{array}{ccc} 6 & 5 \\ 7 & 2 \\ 7 & 5 \\ 10 & 1 \end{array}$

	Tree Ma		7700	ATO
No. 77	Vol. No. 10 3	TV Carries Manuals	Vol.	No.
	10 5	TV Service Manuals 1964 TV Manuals Plan "E" and Plan "F"	15	4
Test Equipment  AM Generator in Place of Cross-Hatch	4 2	TV Service Notes	10	*
Capacitance-resistance Bridge	1 3	Apparent Ignition Interference On "U3"	11	2
Cathode Ray Oscillograph (2 Parts)	2 3, 4	Chassis Ventilation — "QX"	15	3
G-E ST-16A Color Alignment Generator Oscilloscope — A valuable Service Tool-1	8 6 15 4	Color Receiver - Models: 21T500, 21C700 & 1	11	5
Signal Generator — 1		Color TV Demagnetizing Coil. Correction for Overload on "U2"	15 10	2 6
Signal Generator — 2 Tube Tester	$\begin{array}{cccc} 1 & 6 \\ 2 & 2 \\ 1 & 2 \end{array}$	Damage to Semiconductor Power Rectifiers	15	
Vacuum Tube Voltmeter	1 5	Electrical Safety Test Excessive Width — "M4" Sets	12 11	3 2 3 5
Transistors		Excessive Width — "U2" Receivers	10	5
Transistor Theory	8 1	Horizontal Jitter in "M4" Receivers	11	4
How to Make a Transistor Tester	10 6	Horizontal Pull or Weave — "QX" Identifying Dual Diodes	15 13	3
Power Supply	13 2	Intermittent Brightness — "CW" Color	15	3
Transistor Tester		Inoperative Fine Tuning — "M6" and "U5" Intermittent Channel Selection "M6"	14 12	1 5
G-E Transistor Tester How to Make a Transistor Tester	$\begin{array}{ccc} 8 & 1 \\ 10 & 6 \end{array}$	Phasing on 2 and 3-Speaker Models	11	4
Tube Testers		Pincushioning Correction Power Tuning Repairs — "U2" Receivers	13 10	3 6
How to Get the Most Out of Your Test Equip-		Protecting Picture Tube	14	5
ment — Tube Tester	1 2	Production Changes — "MW" Removal of the Metal Back on "M4"	15	5 1 2 4
Tuners		Removing Scratches and Static	11 14	4
G-E Model FA-10 and FA-12 Hi-Fi Tuner	11 3	Replacement Sweep Transformers	11	1
The G-E UHF 103 Tuner (2 Parts)	5 3, 4	Rolling Bright Line — "CX" Color Servicing the "M6" Contrast Control Circuit	15 13	1 3 2 3
The Head-End (2 Parts) UHF Converters or Tuners	$\begin{array}{cccc} 1 & 3, 4 \\ 5 & 2 \end{array}$	Slippage in Fine Tuning Control	11	3
Servicing TV Tuners (5 Parts)	12 6	Special Components in TV Receivers Testing Horizontal Phase Detection Diodes	12 14	4 3
TV Antennas	13 1-4,6	Vertical Sync Buzz Trouble-"U2" Chassis	11	6
Television Reception (2 Parts)	1 1, 2	1964 TV Manual Subscription	15	3
UHF Antennas	5 2	6CD6 Horizontal Output Tube Failures 6GH8 Replaces 6EA8 in Remote Receivers	12 12	6
UHF Antenna Installations	6 4	-		
TV Channel Frequencies		TV Signal Description		
Complete list of channel frequencies	4 3	Synchronizing Pulses and Circuits	2	1
TV Circuit Description		TV Sound Systems		
D-C Restoration	1 6	Delta Sound System	10	3 5
Deflection Circuit Waveforms and RF Power Supplies	2 3	Repair of Ratio Detector Transformers	10	Ð
Horizontal AFC Systems	$\begin{array}{ccc} 2 & 3 \\ 2 & 2 \end{array}$	UHF Reception		
Horizontal Deflection Circuits and Kickback Power Supplies	2 4	Report on UHF Reception UHF Antenna Installations	5 6	2 4
Synchronizing Pulses and Circuits	2 1		. 0	4
The Head-End (2 Parts) Video Detector, A.G.C. and Video Amplifier		VOM & VTVM		
Vertical Sweep Circuits	$\begin{array}{ccc} 1 & 5 \\ 1 & 6 \end{array}$	How to Get the Most Out of Your Test Equipment — VOM — How to Make HV-Multiplier	1	1
TV Picture Tubes		How to Get the Most Out of Your Test Equip-		
Aluminized Picture Tube Replacement		ment — Vacuum Tube Voltmeter	1	5
Guide	5 5	Vertical Circuits		
Part I — Phosphor Specifications and Implosions	4 4	Kill that retrace — Vertical	1	4
Part II — Electron Gun and Gun Defects	4 5	Vertical Sweep Circuits	1	6
Part III — Gun Defects continued and Cathode Images	4 6	Video Amplifiers		
Part IV — Construction of a Picture Tube	4 0	Video Detector, A.G.C. and Video Amplifier	1	5
Tester	5 1	Video Detectors		
Open Heaters Due to Arc-Over Replacement of 21AP4 Metal with 21ZP4-B	7 5	Germanium Diodes in Video Detector	2	3
Aluminized Glass Picture Tube	7 6	Video Detector, A.G.C. and Video Amplifier	1	5
TV Receiver Noise or Interference		What's Wrong with This Picture?		
TV Receiver Noise	4 1	What's Wrong With This Picture?	11	2,3,4
TV — "U-3" Apparent Ignition Interference	11 2	Tring Trick Alle Alectic	ALC:	
TV Reception		Copies of all issues are still available. If you	are m	iss-
Report on UHF Reception	5. 2	ing any copies and cannot obtain them from your dis-		
The Antenna (2 Parts)	1 1, 2	for each additional issue to: Techni-Talk Cashier, Gen-		en-
UHF Antenna Installations	6 4	eral Electric Company, 316 E. Ninth Street, Ov	vensbo	ro,

13



TV Service Guides Volumes 1, 2, 3 and 4