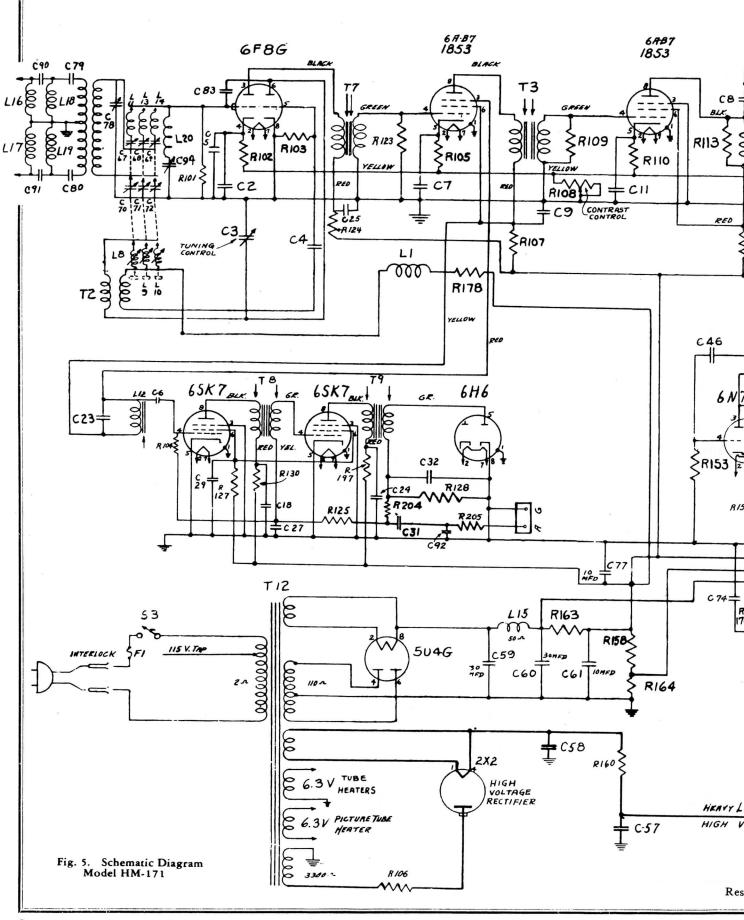
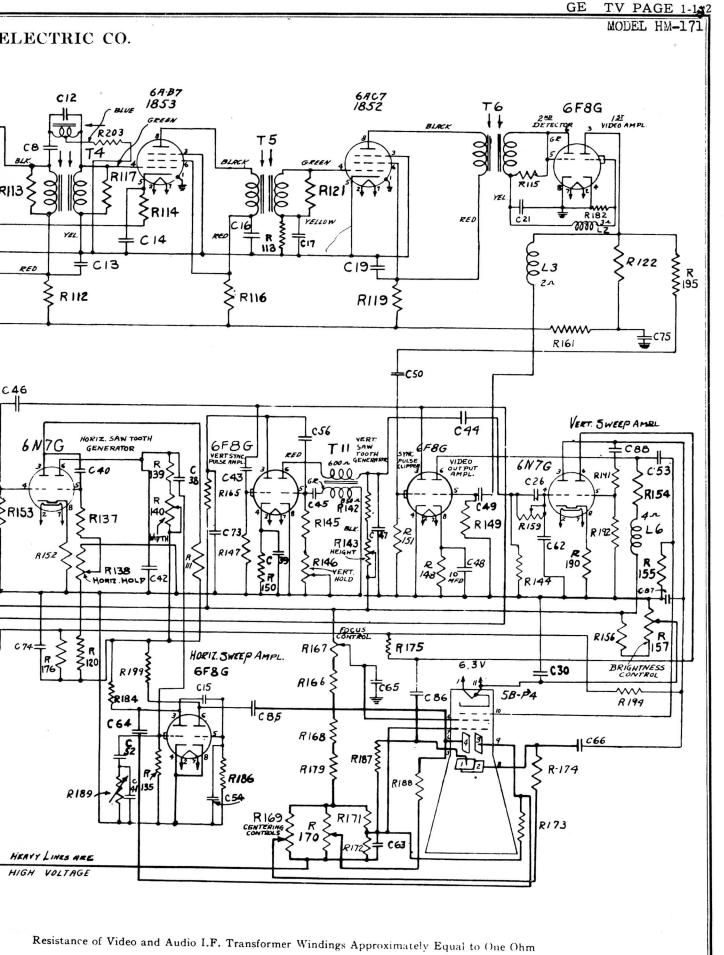
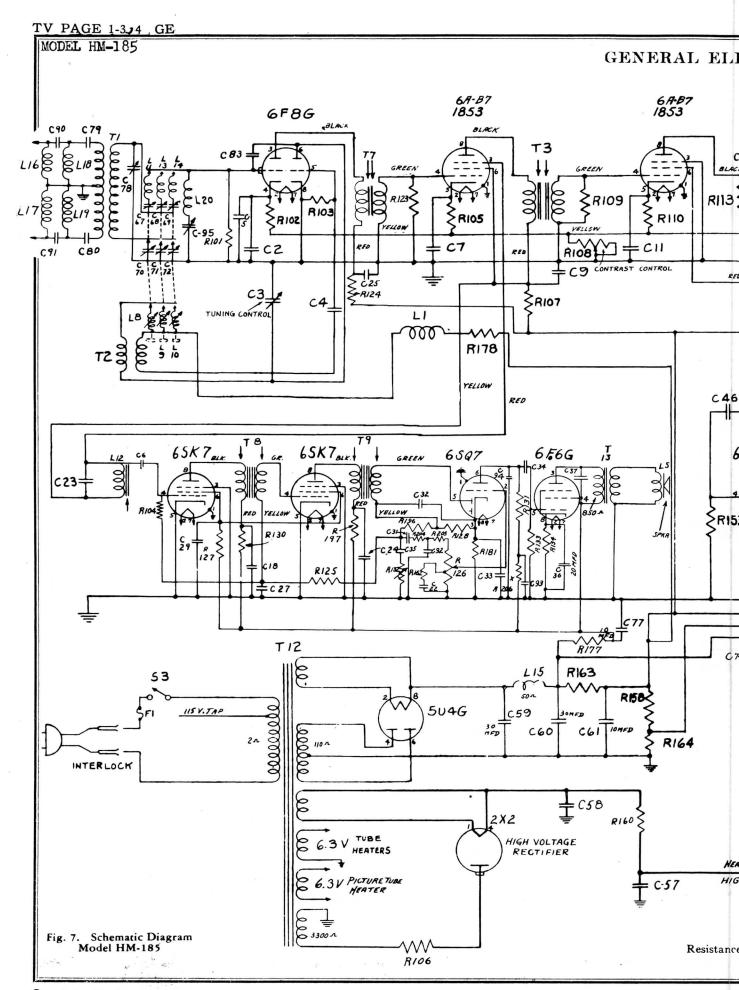
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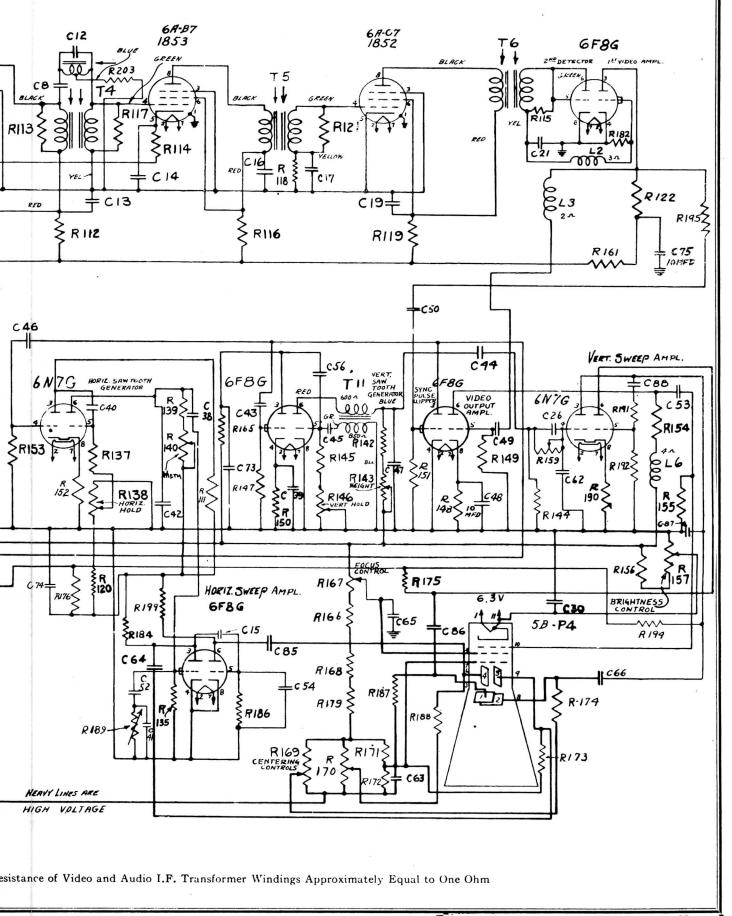


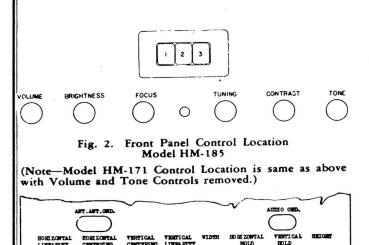
TV PAGE 1-122

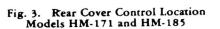


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RECEIVER CIRCUIT DESCRIPTION

R.F. Unit

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Starting at the antenna terminal posts, there follows a single-stage high-pass filter in the antenna primary to reduce video I.F. interference, a shunt capacity coupled secondary (C-78), and a video I.F. wave trap (C-95, L-20). The wave trap is broadly tuned at 11.75 MC. Any one of the three tuned circuits for each of the three television transmission

bands can be connected into the se ondary circuit by pressing appropriate button. The econdary circuit when properly tuned gives a broad, flat response curve.

Converter-Oscillator and Amplifier

The 6F8G converter employs one half as the oscillator and the other half as the biased first detector. The oscillator is plate-tuned with vernier tuning permitted from the front control panel through trimmer (C-3). The resultant video I.F. signal of 12.75 MC and the audio I.F. signal of 8.25 MC developed in the converter-oscillator tube circuit is coupled through transformer T-7 to the first 1853 amplifier tube.

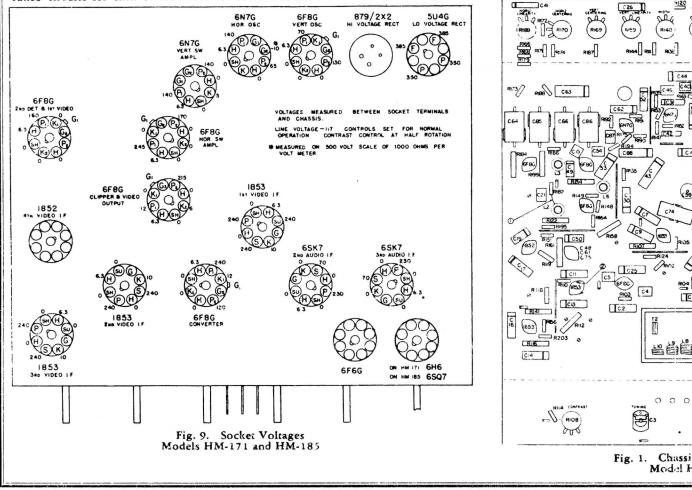
Audio Unit

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The audio I.F. signal is taken off the suppressor of this first 1853 tube. Two stages of 8.25 MC audio I.F. using 6SK7's follow. In the case of the HM-171 the audio I.F. signal is then detected and the resultant audio signal is made available at terminals for insertion into a radio output circuit. In Model HM-185 the 6SK7 stages are followed by a 6SQ7 detector and driver, and a 6F6G output stage. Video Unit

Four stages of video I.F. follow the converter stage. The third stage incorporates a wave trap for the adjacent audio channel at 14.25 MC. The nominal pass band for these amplifiers is 12.75 to 10.75 MC. The second detector uses one half of a 6F8G connected as a diode. The other half of the 6F8G is used as the first video amplifier. The video output is coupled directly to the picture tube grid.



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Sync-pulses are taken off the plate of the clipper section of the clipper and video output tube. The video signals are separate by tube cut-off since the plate voltage is only about 12 volts.

Horizontal Oscillator-output

The clipper feeds the horizontal multivibrator 6N7G directly with needle-point, negative sync pulses. C-46 blocks the flow of vertical sync pulses, into the horizontal multivibrator since they are of a low order of frequency. The horizontal sync pulses which are amplified by the first section of the 6N7G are coupled to the grid of the second section and drive the circuit into violent oscillation. Resulting plate and grid current flow sends the tube to cut-off. The sawtooth wave so generated is applied to the horizontal sweep amplifier one section of which is a phase inverter. This push-pull sweep is coupled to the horizontal deflecting plates of the picture tube. Horizontal hold is controlled by varying the charging rate of the generator circuit, through (R-138). Compensating for high frequency loss adds a means of controlling horizontal linearity which is done through R-189. Width is varied by regulating the magnitude of the charge through R-140.

he Vertical Oscillator-output

The sync pulses are also coupled into the vertical oscillator 6F8G where the circuits composed of C-73 and R-165 bypasses the horizontal sync pulses. The vertical sync pulses are coupled into the vertical sweep generator circuit causing violent oscillatory swings which result in sawtooth waves. The height control (R-146) determines the magnitude of the charge before the next oscillation thus governing the height of the picture. R-146, the horizontal hold control, governs the rate of charging. The vertical linearity control (R-159) accomplishes results similar to the horizontal linearity control. The vertical sweep amplifier produces push-pull output by phase inversion and this output is applied to the vertical deflecting plates of the picture tube.

Low Voltage Rectifier

Low voltage power is obtained from a 5U4G using one stage of choke filtering and the remaining of the resistance filter type.

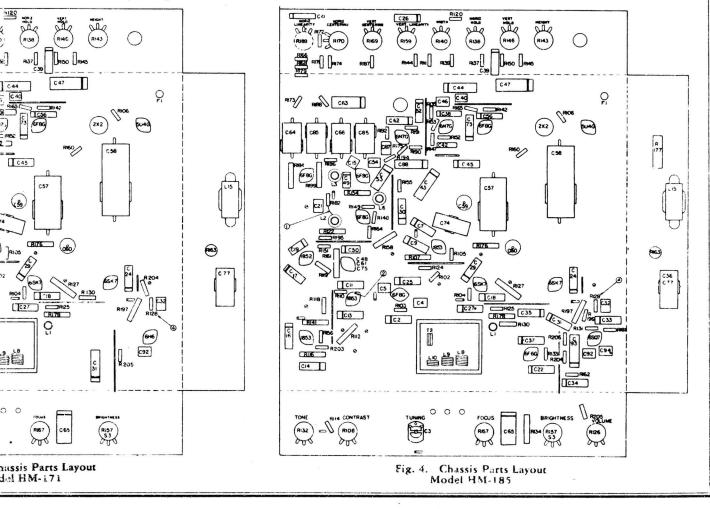
High Voltage Rectifier

The anode voltage of the picture tube is obtained from a single half-wave rectifier with a protective resistor in series with the transformer plate lead.

Loudspeaker

The voice coil is accurately and permanently centered at the factory and should seldom give trouble. In case a voice coil needs recentering it will be necessary to replace the entire cone and voice coil assembly.

Note—In no case should the magnet be removed from the assembled position without remagnetizing after replacing it



MODELS HM-171, HM-185

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MODELS HM-171, HM-18

GENERAL ELECTRIC CO.

TELEVISION RECEIVERS (REVISED FOR NEW STANDARDS)

CHANGES IN THE SCHEMATIC DIAGRAM

- 1- A RESISTOR OF 4700 OHMS IS CONNECTED ACROSS THE PRIMARY OF THE I.F. TRANSFORMER T7.
- 2- THE RESISTOR R123 IS CHANGED FROM 3900 TO 4700 OHMS.
- 3- A RESISTOR OF 4700 OHMS IS CONNECTED ACROSS THE PRIMARY OF THE I.F. TRANSFORMER T6.
- 4- A RESISTOR OF 220,000 OHMS IS CONNECTED BETWEEN THE JUNCTION OF R145 AND R146 AND GROUND.
- 5- A RESISTOR OF 330 OHMS IS INSERTED IN THE CONTROL GRID LEAD OF THE PICTURE TUBE.

REVISED TELEVISION ALIGNMENT PROCEDURE

The problem of aligning the several circuits in a television receiver is much more involved and requires more specialized equipment than the alignment of conventional radio receivers. Fortunately, the use of stable components in carefully engineered circuits of wide-band characteristic reduces to a minimum the necessity for alignment under normal operating conditions. Should alignment become necessary the following equipment will be needed:

(A) For Video I. F. Alignment

- (1) Cathode ray oscilloscope.
- (2) Wide-band sweep oscillator capable of sweeping from 7.5 to 15 MC.
- (3) Marker system either provided in sweep oscillator or from separate signal generator for locating 12.75 and 10.75 MC points.
- (B) Sound I.F. Alignment

- (1) Cathode ray oscilloscope.
 - (2) Wide-band sweep oscillator capable of sweeping from 7.75 to 8.75 MC.
 - (3) Marker system either provided in sweep oscillator or from separate signal generator for locating 8.15 and 8.35 MC points.
- (C) R.F. Alignment
 - (1) Cathode ray oscilloscope
 - (2) Wide-band sweep oscillator capable of sweeping the following bands:
 - (a) 50 to 56 MC
 - (b) 60 to 66 MC
 - (c) 66 to 72 MC
 - * (d) 78 to 84 MC
- Those recrivers which were aligned at the factory for Band No. 4 must use this r-f sweep frequency.

VIDEO I.F. ALIGNMENT

Input Freq.	Point of Input	Adjustments	Comments
1.			Connect vertical input cable of cathode ray oscilloscope across resistor R-182 of 6F8G video detector.
2. 7.5–15 MC Sweep	Control grid of 6AB7 (2nd video I.F.)		Connect output tap of video I.F. sweep oscillator to control grid of 6AB7 (2nd video I.F.). Connect ground lead to chassis. Turn contrast control (R-108) to about half of maximum or to a point which gives satisfactory vertical deflection without overloading. Set horizontal centering and gain controls on oscilloscope to give suitable horizontal deflection. Adjust sweep phase to give curve similar to Fig. 7, curve 1.

NOTE: If sweep oscillator has marker points internally supplied, steps 3 and 4 may be omitted.

	Signal Input	Point of Input	Adjustments	Comments
3.	Same as in No. 2 plus 12.75 MC	Same as in No. 2		Superimpose an accurately calibrated 12.75 MC signal in parallel with sweep signal. Signal will appear on sweep curve in oscilloscope as a wiggle, the center of which is a thin black line. With a pen or crayon mark this point on the screen of the oscilloscope. (NOTE: Hereafter the hor- izontal controls on the oscilloscope must not be touched.)
4.	Same as in No. 2 plus 10.75 MC	Same as in No. 2		Superimpose an accurately calibrated 10.75 MC signal in parallel with sweep signal. Mark screen at point where signal appears on curve as in No. 3 above.
5.	7.5–15 MC Sweep	Control grid 6AC7 (4th video IF)	Iron cores of de- tector trans- former T-6	Do not touch horizontal controls of oscilloscope. Adjust iron cores of T-6 until curve appears similar to Fig. 7, curve 1, with relatively flat top, 12.75 MC mark at corner of one side and 10.75 MC mark at corner of other side. These conditions plus maximum amplitude insure correct alignment.
6.	7.5-15 MC Sweep	Control grid 6AB7-3rd video IF	Iron cores of 4th video transformer T-5	Adjust iron cores for maximum gain, flatness and proper centering between markers as described in step No. 5 and illustrated in Fig. 7, curve 1.
7.	7.5-15 MC Sweep	Control grid 6AB7 (2nd video IF)	Iron cores of 3rd video transformer T-4	Adjust primary and secondary iron cores for maximum gain, flatness and proper centering. See Fig. 7, curve 1.
8.	7.5-15 MC Sweep	Converter grid, 6F8G	Iron cores of 2nd video transformer T-3 & 1st video transform- er T-4	Connect low tap to grid (on top of tube). Adjust primary and secondary iron cores for maximum gain, flatness and proper centering. See Fig. 7, curve 1.
9.	14.25 MC	Converter grid, 6F8G	Series iron core of 3rd video transformer T-4	Connect low tap to grid. Reduce horizontal gain to min- imum. Adjust iron core for minimum line length.

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MODELS HM-171, HM-185

GENERAL ELECTRIC CO.

REVISED TELEVISION ALIGNMENT PROCEDURE CONT.

AUDIO I.F. ALIGNMENT

NOTE: In order to obtain frequency modulation detection in the sound channel with good fidelity, the audio I.F. amplifiers must be aligned to give a satisfactory selectivity curve for slope detection. For this reason a sweep generator and oscilloscope are necessary to obtain the resultant curve shown in Fig. 7, curve 3.

	Signal Input	Point of Input	Adjustments	Comments
1.	8.25 MC with 30% tone modulation	6F8G con- verter grid	Tune all audio I.F. iron cores	Use an oscilloscope or high resistance voltmeter across —audio output terminals of HM171 or volume control, R126, of the Model HM185. Set tone control for maxi- mum high frequency response. Peak all trimmers for a maximum output.
2.	7.75 to 8.75 MC sweep	Grid of 2nd audio I.F., 6SK7		Connect oscilloscope input to chassis ground and junction of resistors (R204 and R125 in HM-171) (R125 and R196 in HM185) at diode load. Superimpose an accurately calibrated 8.15 MC signal in parallel with sweep signal. This signal will appear on sweep curve in oscilloscope as a wiggle at the center of which a mark should be made with pen or crayon on oscilloscope screen. (Hereafter the hori- zontal controls on the oscilloscope must not be adjusted.) Next an 8.35 MC signal mark should similarly be made.

NOTE: If sweep oscillator has marker points internally supplied, omit step 2.

-				-
3.	7.75 to 8.75 MC	Converter	Adjust iron cores	With oscilloscope connected as in step 2, adjust cores
	sweep	grid 6F8G	of 1st audio I.F. coil L12 and the	until curve appears as in Fig. 7, curve 3 being sure that the steep side of curve lies between the 8.15 and 8.35 MC
			2nd audio I.F.	markers as indicated. Note: The shape of the curve be-
			transformer T-9	tween 8.15 and 8.35 MC must be straight, otherwise dis-
		1		tortion will result in FM reception.

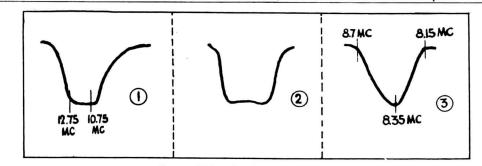


Fig. 7. Television Alignment Curves

TELEVISION ALIGNMENT PROCEDURE R.F. ALIGNMENT

	Signal Input	Point of Input	Adjustments	Comments
1.			Band width adjustment coupling condenser	Turn C-78 in until tight, then open approximately $1/16$ of a turn.
2.	50 to 56 MC Sweep	Antenna terminals	(L-8), (C-70), (C-67)	Connect oscilloscope to junction R124 and C25; open circuit R178, short R102 to ground. Depress No. 1 push button. Set tuning control to mid-rotation. Adjust L-8 until curve is centered between maximum horizontal sweep points. Adjust C-70 and C-67 for maximum ampli- tude. See Fig. 7, curve 2.
3.	60 to 66 MC Sweep	Antenna terminals	(L-9), (C-71), (C-68)	Depress No. 2 push button. Leave tuning control at mid- rotation point. Adjust L-9 for centering; C-71 and C-68 for maximum amplitude. See Fig. 7, curve 2.
ł.	66 to 72 MC Sweep*	Antenna terminals	(L-10), (C-72), (C-69)	Depress No. 3 push button. Adjust L-10 for centering; C-72; C-69 for maximum amplitude. See Fig. 7, curve 2.
5.	Calibrated signal generator 55.75 MC, 65.75 MC, 71.75 MC** with 30% tone modulation.	Antenna terminals	(L8), (L9), (L10)	To align oscillator for various bands, set tuning control (C-3) at mid-rotation; then set brass slugs of coils L8, L9, L10 until maximum audio tone is heard.
	• In some localities this sw	eep will be 78 to 84 m	negacycles. •• 83.75 WAVE TRAP ALIC	Megacycles when Band No. 4 is set up on the No. 3 key.
1	11.75 MC with 400	Antenna	Wave trap trim-	
1.	cycle modulation	terminals	mer, C-95	Adjust for minimum signal response as seen on oscillo- scope after connections made in Step 2 are re-established; then connect oscilloscope across R182.

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MODELS HM-171. HM-185

GENERAL ELECTRIC CO.

RECOMMENDED PROCEDURE FOR READJUSTING THE R.F. CIRCUITS TO CONFORM TO THE NEW TELEVISION FREQUENCY ALLOCATIONS ON THE LOWER CHANNELS.

Necessary Equipment:

(1) Oscilloscope - G.E. Model CRO-5-S or equivalent.

- (2) Wide-band sweep oscillator capable of sweeping the following bands:
 - (a) 54 to 60 MC
 (b) 66 to 72 MC
 (c) 76 to 82 MC
- (3) Accurately calibrated absorption wave meter with a frequency range of at least 54 to 82 MC.
- (4) Accurately calibrated signal generator with a frequency range of at least 59.75 to 81.75 MC with 30% tone modulation.
- (5) 50,000 ohm 1/2-W resistor.

PROCEDURE FOR CIRCUIT'S ASSOCIATED WITH #1 PUSH BUTTON.

- 1. Disconnect low side of R-102 and connect a 50,000 ohm resistor in series with it to ground.
- 2. Remove all rectifier tubes.
- 3. Connect vertical input of oscilloscope across R-102 and the 50,000 ohm resistor.
- 4. Connect wide band sweep generator to antenna terminals and adjust for a 54-60 MC Sweep. Output of generator should be set near maximum.
- 5. Depress the #1 push-button (heaters should be on) and adjust sweep and sync controls on scope to give a curve similar to Fig. 1.
- 6. Turn band width adjustment coupling condenser C-78 in until tight, then open approximately 1/16 of a turn.
- 7. Check location of the 54 and 60 MC points on the curve with the absorption wave meter.
- 8. Adjust trimmers C-67 and C-70 until the 54 and 60 MC points appear on the curve as shown in Fig. 2. It will probably be necessary to decrease the inductance of L-11 somewhat by spreading the coil, before the 54 and 60 MC points come in at the proper place.
- 9. Remove the 50,000 ohm resistor, connect R-102 back to normal, remove scope and replace rectifier tubes.
- 10. Disconnect wide band sweep generator from antenna terminals and connect in its place the modulated signal generator adjusted to exactly 59.75 MC.

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MCDELS HM-171, HM-185

GENERAL ELECTRIC CO.

11. Set tuning control C-3 to mid-rotation. Adjust brass slug of L-8 until maximum audio tone is heard, with volume control turned partially up. If slug does not have sufficient range, it will be necessary to decrease the inductance of L-8 somewhat by spreading the coil.

PROCEDURE FOR CIRCUITS ASSOCIATED WITH #2 P.B.

1.	Samo	as	for	the	#1	F.	Β.

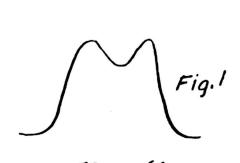
- 2. ditto
- 3.
- 4. "except that the oscillator is adjusted for a 66-72 MC sweep.
 5. Depress the #2 push button.
- 6. Do not re-adjust C-78. Check location of the 66-72 MC points on curve with absorption meter.
- 7. Adjust trimmers C-68 and C-71 until the 66-72 MC points appear on curve as shown in Fig. 4. It may be necessary to decrease the inductance of L-13 by spreading the coil in order to bring the 66-72 MC points at the proper place on the curve.
- 8. Same as in step #9 for the #1 P. B.
- 9. " " " #10 " " " except that the modulated signal generator is adjusted to exactly 71.75 MC.
- 10. Same as in step #11 for the #1 push button, except that the brass slug of L-9 is adjusted and it will be necessary to decrease the inductance of L-9 by spreading the coil.

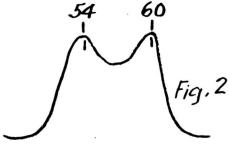
PROCEDURE FOR CIRCUITS ASSOCIATED WITH #3 P.B.

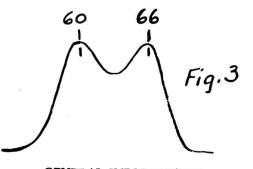
- 1. Same as for the #1 P.B.
- 2. ditto
- 3. "
- 4. ", except that the oscillator is adjusted for a 76-82 MC sweep.
 5. Depress the #3 push button.
- 6. Check location of the 76-82 MC points on curve with absorption wavemeter.
- Adjust trimmers C-69 and C-72 until the 76-82 MC points appear on curve as shown in Fig. 5. It will be necessary to increase the inductance of L-14 somewhat by squeezing the coil together in order to bring the 76-82 MC points at the proper place on the curve.
 8. Same as in step #9 for the #1 P.B.
- 9. """ " #10 "" " except that the modulated signal generator is adjusted to exactly 81,75 MC.
 10. Same as in step #11 for the #1 P.B. except that the brass slug of
- L-10 is adjusted, and it will be necessary to increase the inductance of L-10 by squeezing the coil together.

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GENERAL ELECTRIC CO.







GENERAL INFORMATION

General Electric Picture Receiver and Sound Converter Model HM-171, is a table type, 17-tube, superheterodyne receiver equipped with a δ -inch, electrostatic-deflected, picture tube. The receiver works in conjunction with any radio receiver, which is designed for phonograph reproduction, to reproduce the sound portion of the television broadcast.

General Electric Television Receiver, Model HM-185 is a console type, 18-tube, superheterodyne receiver with a complete sound channel and using a 5-inch_p electrostaticdeflected picture tube.

Additional design features include iron-core I.F. tuning, automatic tone compensation, automatic volume control and constant high-gain antenna coupling circuit.

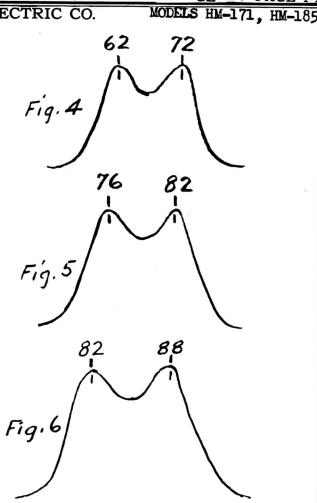
Electrical Specifications

Model	Power	Frequency	Power
	Supply	(Cycles per	Consumption
	(Volts)	Second)	(Watts)
HM-171	115-125	60	170
HM-185	115-125	60	170

Tuning Frequency Range

Band	No.	1.		•	•			•			•	•		•	•				•	•	•	•	•	•	.44-50	MC.
Band	No.'	2.	• •	•		 •	•	•	•	•	•	•	•	•	•	•	•	•	•,	•	•	•	•	•	. 50-56	MC.
Band	No.	3.			•		•	•	•	•	•	•	•	•		•	•	•		•		•	•	•	.66-72	MC.

Intermediate Frequencies



Maximum Electrical Output

Model HM-171. (Dependent upon radio receiver output) Model HM-185.....5 watts

Loudspeaker-"Alnico" Magnetic Dynamic

	Model		
	Cone Diameter		
	Voice Coil Impedance (40	00 cycles)3.5 ohms
Pi	icture Size		

Height.	•	•	•	•	•	•	•	•	•				•	•	•	•	•	•		0	•		•	•	•	•	•					3	1/4	inches
Width	•	•		•	•		•	•	•	•	•	e	•	•	•	•	•	•	•	1	•	•	•	•	•	•	•	•	•		•	4	14	inches

Tubes

Converter-OscillatorGE-6F8G	
Audio & Video I.F. Amplifier GE-1853/6A	B7
2nd and 3rd Audio I.F. Amplifiers(2)GE-6SK7	
Det., Audio, AVC (HM-185)	
Det. and AVC (HM-171)	
Audio Output (HM-185)GE-6F6G	
2nd and 3rd Video I.F. Amplifiers (2)GE-1853/6A	B7
4th Video I.F. Amplifier GE-1852/6A	C7
Video Det. and 1st Video Amplifier GE-6F8G	
Video Output and Sync. Clipper GE-6F8G	
Vertical Oscillator	
Vertical OutputGE-6N7G	
Horizontal OscillatorGE-6N7G	
Horizontal OutputGE-6F8G	
High Voltage Rectifier	
Low Voltage Rectifier GE-5U4G	
Picture TubeGE-5BP4	

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MODELS HM-171. HM-185

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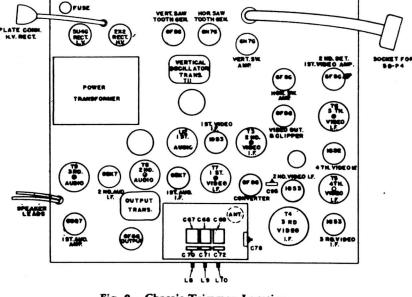


Fig. 8. Chassis Trimmer Location Models HM-171 and HM-185

ANTENNA

In general, the television antenna should be of

the dipole type located as high as is practical and in an area where the horizon in the direction of the television transmitter supply outlet until a good, solid ground connection has been is not obstructed by buildings or structures. A noticeable properly made to the receiver chassis. gain in signal strength will be obtained as antenna height is increased. Since television radiation reacts similarly to light with the power plug disconnected before working on the waves, reflection problems arise which often modify other- receiver with the back cover removed:

wise ideal installation locations. Consideration must also be given noise sources within buildings, or ignition noises from vehicles on adjacent streets. It is usually best to locate the dipole antenna on the side of the building away from the street thus allowing the building to shield the antenna from ignition noises.

The dipole should be erected with arms parallel to the ground and at right angles to the direction of the television station. place can be made without energizing the high-voltage If noise or reflection interference exist it may be better to circuits. point the dipole arms in the direction of the interference.

strength appreciably as well as increase the horizontal directivity.

CAUTIONARY INSTRUCTIONS

Extremely high voltages (2500 volts or more) are used in must be exercised to insure safety to the service engineer scratched, or subjected to more than moderate pressure. and to the customer.

never be removed except by a qualified television service fails to slip into place smoothly, investigate and remove the, engineer.

The power-cord plug should not be inserted in a power

For safety, the following operations must be performed

- 1. Locate the 879/2X2 high voltage rectifier tube socket.
- 2. Unsolder the lead (color-coded brown and yellow and measuring 3300 ohms to chassis) which is connected to the 879/2X2 tube socket.
- 3. Thoroughly insulate the exposed end of this lead.

All adjustments not accessible with the back cover in

Servicing of the high-voltage circuits can be satisfactorily Noise interference and poor signal strength may dictate performed with the power-cord removed from any power the use of a reflector. A reflector will increase the signal supply outlet. A resistance check of the circuit components will indicate any trouble existing. (HIGH VOLTAGES SHOULD NEVER BE MEASURED.)

The "picture tube" is highly evacuated and is consequently subject to a very great air pressure. If it is broken, glass fragments will be violently expelled. Handle with care, using safety goggles and gloves.

The large end of the "picture tube" particularly that part the operation of this receiver; therefore, every precaution at the rim of the viewing surface-must not be struck, DO NOT FORCE THE SOCKET ONTO THE TUBE The back cover while in place, protects the user and should OR STRAIN ANY EXTERNAL CONNECTIONS. If it cause of the trouble.

RTQ-1000 RESISTOR—350 ohms 10 W. wire wound RTQ-1001 RESISTOR—100 ohms 16 W. wire wound RTQ-1001 RESISTOR—100 ohms 16 W. wire wound RTG-1002 RESISTOR—100 ohms 16 W. wire wound RTS-100 SCKRFT—2 St. ulse scient 4 pronty RTS-300 SIMPTT—2 St. ulse scient 4 pronty RTS-300 SIMPTT—2 St. ulse scient 4 pronty RTS-300 SIMPTT—5 view scient 10 st. 163 RTS-300 SIMPTT—5 view scient 10 st. 163 RTS-300 STUPCH*5 view 1 st. 163 RTS-701 STCCR5 W. Wire 8 st. 163 RTS-701 STCCR5 W. Wire 8 st. 163 RTS-701 STCCR5 W. W. REWING VF. 163 RTS-701 STCCR5 W. W. REWING VF. 163 RTS-701 STCCR5 W. REWING VF. 163 RTS-701 STCCF5 RTS-701 STCF5 RTS-701 STCF5 RTS-701 STCF5 RTS-701 STCF5 RTS-701 STCF5 RT
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 RTC-1001
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 RTC-1001
 TRINKER, STRIP-20-200
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 RTC-5000
 CONTROL-25
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 RTT-3000 [TANSPRMER-1st Video I.P. trans. RTT-3300 [TANSPCRMER-2nd Video I.P. trans. RTT-3300 [TANSPCRMER-2nd Video I.P. trans. RTT-4000 [TANSPCRMER-2nd Video I.P. trans. RTT-4300 [TANSPCRMER-4th Video I.P. trans. RTT-300 TRANSFORMER-sht video LF. trans RTT-300 TRANSFORMER-sht video LF. trans RTT-700 TRANSFORMER-sht video LF. trans former (L-12) RTT-750 TRANSFORMER-shd Audio LF. trans-former (T-3) RTT-8000 TRANSPORMER-3rd Audio I.P. trans RTT-8000 TRANSPORMER-Ver. oscillator trans RTT-8000 TRANSPORMER-Ver. oscillator trans RTB-1000 BOARD-Pecta control insulator mount-ing board. RTB-1001 BOARD-Cettering controls insulator mounting board mounting board (8-hole. RTX-1003 ASSEMBLY-Wave trap assembly (L-20 RTB-1500 BACK COVER-Cabinet back pover RTB-1500 BHK COVER-Cabinet back pover RTB-2000 BHK COVER-Cabinet back cover RTB-2000 BISHING-Instalating bushing for mount-ing R-183. -Wave trap assembly (L-16 BUTTON-Station selector push Celluloid station letter win 5) -Picture tube safety windor Parts Used in Television Only rear -Picture tube safety Description RTW-100 WASHER-Picture-tube washer(rubber) RTW-500 WINDOW-Picture tube (HM-185) RTW-501 WINDOW-Celluloid stati REPLACEMENT PARTS LIST (Continued) dow (Pkg. P RTX-1000 ASSEMBLY PUSH M Stock No RTW-502 RTB-500 RTG-200 GROMMET-Subjer humper up to the RTG-200 GROMMET-Subjer humper on preture RTL-1000 COLL-RF coil (Band Xe, 3) (L-1) RTL-1000 COLL-RF coil (Band Xe, 3) (L-1) RTL-2000 COLL-RF rei (Band Xe, 3) (L-1) RTL-2000 COLL-Converter rule coil (Band Xe, 3) (L-1) RTL-2000 COLL-Converter rule coil (Band Xe, 1) (RTL-2000 COLL-CONVERTER rule coil (RTR-2000 COLL-CONVERTER rule
 R R83ISTOR — 77,000 ontan 14
 W carbon

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 R R83ISTOR — 37,000 ontan 14
 W carbon

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 R R83ISTOR — 33,000 ontan 14
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 R R83ISTOR — 33,000 ontan 14
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 R R81ISTOR — 33,000 ontan 14
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 R R81ISTOR — 30,000 ontan 14
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 R R81ISTOR — 40,000 ontan 14
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 R R81ITOR — 10,000 ontan RTC-5006 CONTROL—500,000 ohm tone control (R. RTC-5007 CONTROL-20 megohm variable control (R-143, 146, 159) RTC-5008 CONTROL-20 megohm volume control control RTC-6000 (C.3) (ART-0000 (ART-0) (Pkr. 10) RTC-6001 (ARD-Television station tab No. 2 (Pkr. RTC-5002 [C10] [Pige10] RTC-7000 [CARL - Power cable with plugs RTC-7001 [CARL - Power cable with plugs RTC-7001 [CARL - Power cable and 11 prong RTC-8001 CUSHION—Fiture tube face tushion. RTE-100 EUSHION—Fiture tube face tushion. RTF-100 FUSE NOLDER—Power line tush holder. RTG-100 GRID CLIP—Instalted 2.2 grid clip. RTG-201 GROMMET—Rubber grommet for insu-lating chasss hole from picture tube contro RTC-8000 CLAMP-Picture tube clamp (upper sec. 000 ohms 14 W. carbo. 000 ohms 14 W. carboi RTC-5009 CONTROL-0.5 megohm width RTC-5010 CONTROL-3-20 mmf. tuning Description kind file (kind) (RTC-5007 CONT RTL-3002 C01L Stock No. *RQ-1295 -RQ-1297 RQ-1307 RQ-1299 RQ-1301 RQ-1303 RQ-1305 RQ-1311 RQ-1313 RQ-1315 RQ-1317 RQ-1319 RQ-1321 RQ-1323 CACACTOR - 003 mfd. 2000 V paper CAACTOR - 003 mfd. 2000 V paper CAPACTOR - 12 mmf mrs (C-13) CAPACTOR - 12 mmf mrs (C-33) CAPACTOR - 22 mmf mrs (C-33) CAPACTOR - 22 mmf mrs (C-33) CAPACTOR - 20 mmf mrs (C-33) CAPACTOR - 10 mmf mrs (C-33) CAPACTOR - 10 mmf mrs (C-32) CAPACTOR - 10 mmf mrs (C-32) CAPACTOR - 10 mmf mrs (C-32) CAPACTOR - 30 mmf mrs (C-33) CAPACTOR RESISTOR-L.5 megohms *y*f W. carbon (R-19) (*Yet* 3) RESISTOR-22 megohms *y*f W. carbon (R.125, 146, 156, 166, 196) (*Page*, 5) RESISTOR-27 megohm *y*f W. carbon (R.143) (*Yet*, 3) RESISTOR-56 megohms *y*f W. carbon (R.173, 174, 187, 188) (*Pkg*, 5) RESISTOR-53 ohms *V*, turbon (R, 141) RESISTOR-33 ohms *V*, turbon (R, 141) RESISTOR-33 ohms *V*, turbon (R, 141) RESISTOR-33 ohms *V*, turbon (R, 141) x 154) SISTOR-4700 ohns 1 W. carbon R-107 112 110 R-107 112 110 R-107 112 110 R-130 ohns 1 W. carbon SISTOR-12,000 ohns 1 W. carbon SISTOR-12,000 ohns 1 W. carbon paper paper RILRI, JA, 198 SHELD – FRS tube sheld SCKET – Oral tube socking socket SOCKET – Electrolytic mounting socket SOCKET – Electrolytic mounting socket SPAKER – U2-inch permanent magnet. TRANSPORMER – Output frankformet paper pape pape CAPACITOR-R.F. padder (C-78) CLAMP-Ant. coil mounting clamp (Pkg. CAPACITOR-20 mtd. 25 V. 10 mtd. 450 V., dry electrolytic (C-36, 77). WARDEN Transformer shaft tension WASHER Transformer shaft tension WASEMBLY Speaker mounting assembly carbon carbor 119) STOR-18,000 ohms 1 W. carbor (T-13) RRMINAL-Speaker lead comtact clip -47,000 ohms 1 W. carboi -Pelt washer for control shaft 2000 V. > > > > 122) STOR-1500 ohms 1 W. 76) 3TOR-3300 ohms 1 W. 2000 1000 ITOR-.25 mfd. + 400 200 CAPACITOR-25 mfd. v (C-47) CAPACITOR-0.5 mfd. Description mfd. mfd. CAPACITOR-0.1 mfd. Authorized Dealers (C-58) CAPACITOR- 06 CAPACITOR-0.1 199 REPLACEMENT PARTS LIST Models HM. 171 and HM-185 Purts Common to Both Rudio and Talevision Insist on Genuine Factory-tested Parts, Available from Auth 78) TOR 8 CAPA Stock No. RC-1995 RC-5138 BC-132 RC-133 RQ-1420 RQ-1460 RC-134 RC-147 RC-157 RC-192 *RC-23 *RC-220 *RC-222 *RC-225 *RC-235 *RC-235 *RC-238 *RC-248 *RC-248 *RC-248 RQ-1335 *RQ-1339 RQ-1349 RQ-1476 *RQ-1341 *RQ-1471 •RQ-1499 RQ-1461 RQ-1475 RQ-1485 RQ-1489 •RS-179 •RS-257 RS-257 RS-257 RS-265 RS-1011 RS-1803 RS-1803 RT-471 RX-062 RW-101 RT-954 RW-112 BOARD – Terminal board (2 lug) BOARD – Terminal board (1 lug) BOARD – Terminal board (1 lug) BOARD – Atternant board (3 lug) BOARD – Atternant board (3 lug) CAPRD – Molet Indicator Board (3 lug) CAPACITOR – 0015 mid, 600 V. paper CAPACITOR – 0015 mid, 600 V. paper CAPACITOR – 002 mid, 600 V. paper CACACUTOR - 002 mid. 600 V. paper CACACUTOR - 003 mid. 600 V. paper CACACUTOR - 005 mid. 600 V. paper CACACUTOR - 006 mid. 600 V. paper CACACUTOR - 01 mid. 600 V. paper CACACUTOR - 03 mid. 600 V. paper CACACUTOR - 04 mid. 600 V. paper CAPACUTOR - 05 mid. 600 V. paper CAPACUTOR - 04 mid. 600 V. paper CAPACUTOR - 04 mid. 600 V. paper CAPACUTOR - 04 mid. 600 V. paper CAPACITOR—10 mid. 300 V. 10 mid. 50 V. 10 mid. 460 V. dry electrolytic (5-48, 81, 75)
 CAPACITOR—10 mid. 450 V. dry electrolytic trobytic (5734)(Also 5.77 on HM 111). GRIDB—Control keab (Fig. 9)
 RNDB—Control keab (Fig. 9)
 RNDB—Control keab (Fig. 9)
 RNDB—Control keab (Fig. 9)
 RSSTOR—150,000 ohma 2 W. curbon (R-158) RESISTOR - 12,000 001113 J W. GEDON RESISTOR - 12,000 001113 J W. GEDON RESISTOR - 113) [PH, 5] W. GEDON RESISTOR - 2770 001113 J W. GEDON RESISTOR - 1770 001113 J W. GEDON RESISTOR - 1000 001113 J W. GEDON RESISTOR - 2000 001113 J W. GEDON C.73) C.P.A.CTTOR-0.1 mfd. 200 V. paper C.P.A.CTTOR-0.1 mfd. 400 V. paper C.A.P.A.CTTOR-0.1 mfd. 400 V. paper (C.43, 44, 49, 53, 88, 93) (R-134) (RESISTOR-3300 ohms 2 W. carbon (R.161) (Pkg. 5) (RESISTOR-30,000 ohms 2 W. carbor carbo RESISTOR-12,000 ohms 3 W. Description . Used on previous receiver Stock No. •RB-008 •RB-009 •RB-058 •RB-058 •RB-056 •RB-056 •RB-056 •RB-621 ·RC-009 •RQ-1259 *RQ-1271 RC-5139 RC-5140 .RC-011 *RC-023 •RC-096 RQ-1243 *RQ-1245 RQ-1273 *RC-028 •RC-039 *RC-048 *RC-049 *RC-072 •RC-090 RK-044 RQ-645 -RQ-670 RQ-774 -RQ-1251 RQ-1267 RQ-1269 RQ-1283 RQ-1285 RC-123 RQ-695 -RQ-1289

GENERAL ELECTRIC CO.

window

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RTC-8004 CONTR/CL-80,000 ohm horizontal speed RTC-8006 CONTR/CL-1030) RTC-8006 CONTR/CL-103000 ohma hor linearity control (R-189).

W. carbon 168, 179)

X

0 megohms 135, 144, 1

133,

RQ-1331 RQ-1327

· Used on previous receivers (R-120, (Pkg. 6).

000 ohms 14 W. carbo

MODELS