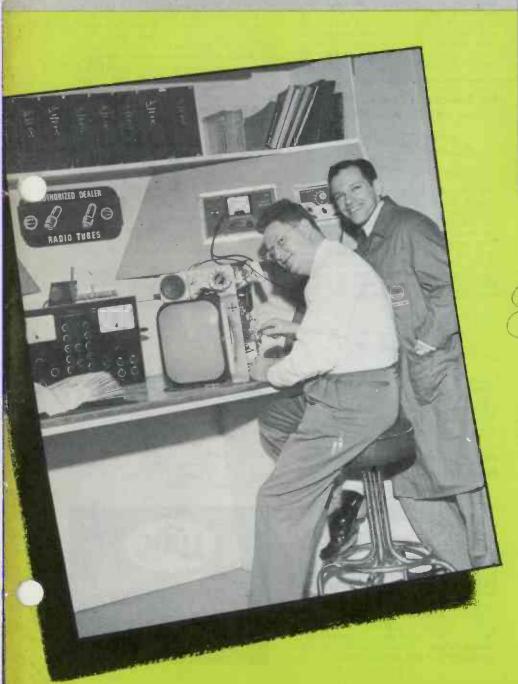
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PHOTOFACT

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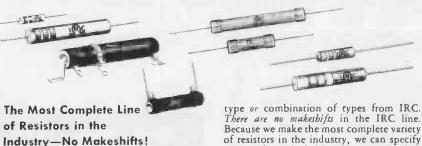
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HOW TO GET THE RIGHT COMBINATION OF LOW-COST INSULATED RESISTORS FOR ALMOST ANY PHOTOFACT CIRCUIT



Regardless of the circuit you're servicing—regardless of the characteristics needed in your resistors—you can get just the right

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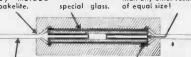
Here's the famous IRC Advanced Type BT—the only filament-type fixed composition. Because of its exclusive design—explained



below—it actually beats tough Joint Army-Navy Specifications—and meets the rigorous requirements of television easily! Completely insulated, IRC BT's withstand large, amounts of heat and cold shock, voltages, overloads, high humidities, salt immersions, vibrations—plus 14 additional Government tests and another 20 required by IRC to control quality and uniformity.

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IRC developed this stable, inexpensive wire wound resistor especially for low range requirements. Insulated in the same way as the BT, the IRC BW Resistor features a resistance element tightly wound with uniform tension around a special core. BW's have an excellent record in television circuits, low-power ignition circuits and the like. Together with BT's, they give good coverage of high and low ranges, providing dependability and long life in each.

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mation. Specify: Catalog DC3A for Precistors, Catalog DC5B for Power Resistors or Catalog DC8B for BT and BW Insulated Resistors.



Pick of the Trade

The other day our car was inspected by the state after having been completely overhauled by a local garage. It failed; wheels out of line. Three times the car went back to the garage before it passed its regular inspection. This probably happens dozens of times. . . . BUT—it's not news. Do we condemn the automobile service industry because of this or similar incidents?

No one would think of charging the automobile service industry with malpractice because scattered incidents or poor or unreliable service are noted. Cars are complicated mechanisms; mistakes happen. So it is with television!

Radio and Television Maintenance July, 1951

* * *

The art of electronics is not remotely approaching static status. In fact it is undergoing a new and exciting revolution toward miniaturization, machine-made circuits and simplification. It is possibly a lucky industry, though luck of a gruesome sort. There is no question but what the design advances necessitated by World War II permitted television to establish itself with a speed that none dreamed of, much less predicted. There is no question but what mobilization, with its need for miniaturization (led by guided missiles) and expendable circuits is bringing another abnormal acceleration in design for the future.

Electronics Markets July, 1951

* * *

"Except for certain exceptional programs, the public does not like TV. Up until now it has proven a poor substitute for motion pictures. Nevertheless, thousands upon thousands of American families have purchased their sets on the installment plan and while most of them have been disillusioned by the quality of the entertainment they have seen on the TV screen, they are, nevertheless, committed to pay for the sets and they economize by elimination of certain other luxuries. We, unfortunately, bear the brunt of this onslaught." So sayeth Darryl Zanuck of 20th Century-Fox.

Electronics Markets June, 1951

* * *

Checkups on the rooftops and windows offer every Service Man an excellent opportunity to build sales during early fall, and in addition, introduce a means of strengthening community friendship by providing video services that even hurricanes will not be able to upset.

Service July, 1951

* * *

The Service Technician's Life Is Not a Bed of Roses

The radio and television service technician has never been too popular with the public at large. The most important reason is that the public has always found it difficult to comprehend and appreciate the complexity of the service technician's calling.

The public has never learned that the service technician has only one thing to sell—his time. This is particularly true when he does not supply parts, but reconditions the set so that it will perform once more.

For some obscure reason, people connect radio or television servicing with parts replacements; yet the technician's time spent in locating the trouble never counts with most set owners.

HUGO GERNSBACK Radio-Electronics August. 1951

* * *

The technician-dealer doesn't need the sanction of a license. He simply requires the good will of his customers, earned by fair dealings with those that he contacts and the good will that always results from a prompt and satisfactory service to the set owners. But once he has earned a reputation in his community he must continue to sell himself as a professional and to recognize his debt to the community in which he operates. His customers do not owe him a living—rather he owes his living to his customers.

By conducting himself as a man with a professional status—his chances for success in the radio-television service business are assured.

OLIVER READ, Editor Radio & Television News July, 1951



AND TECHNICAL DIGEST

VOL. 1 · NO. 5

SEPT .- OCT., 1951

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HOWARD W. SAMS, Publisher

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ABOUT THE COVER: The photograph is of John R. Horn, (left) and Sam Goldish, service manager and owner, respectively, of Brookside Radio and Television Service, Tulsa, Oklahoma. Mr. Goldish writes: "PHOTOFACT is truly monumental in its scope and represents a priceless asset to any modern, well equipped service shop. Let me say I can well appreciate the vast amount of research and detail that enters into the compilation of such a series and the price set on each Folder is quite low indeed."

Editor's Note: The following quoted portion of "Shop Talk" is an excerpt from a forthcoming book by Mr. Kiver entitled "Servicing TV in the Customer's Home." This book, to be published by Howard W. Sams & Co., Inc., is scheduled for early fall release. Distribution dates will be announced in the very near future.

Whenever you are servicing an unfamiliar receiver, your first job is to become acquainted with the location of the various stages in the receiver. Possibly the best way to achieve this familiarity is with the complete service manual for the particular set. The next best solution is to refer to the Howard W. Sams' "Television Tube Location Guide" books. But suppose you have neither of these publications on hand. What then? Then, the next best approach is to trace the path of the various signals through the set by a combination of tube pulling plus common sense deductions.

To illustrate this method, consider the tube layout of a modern television receiver shown in Figure 1. You will know, from your experience with other television receivers, that the tuner is almost invariably placed at the right-hand side of the chassis. In fact, even if you have had hardly any experience at all servicing television receivers, you will know that the shaft of the RF tuner is directly connected to the selector switch or dial and this will locate the tuner for you.

The tuner consists of three stages, namely, an RF amplifier, an oscillator, and a mixer. These functions may be accomplished by three tubes, or by two tubes if multipurpose tubes are employed. When two tubes are used, the oscillator and mixer are combined within one envelope: never the RF amplifier and mixer or the RF amplifier and the oscillator. If three tubes are used, the oscillator generally possesses an external shield; the other two tubes may or may not. Oscillators are invariably triodes and so are the mixers. RF amplifiers may be triodes although pentode RF amplifiers predominate.

Following the tuner assembly are the IF stages. In a conventionally operated dual IF circuit (in contrast to Intercarrier sets), the sound IF stages receive their input from some point in the video IF system and so generally these two sections exist side-by-side. See Figure 1. In Intercarrier receivers, where the sound take-off point is beyond the video second detector, there is less possibility that the sound IF amplifiers will be physically positioned beside the video IF amplifiers. Typical examples are shown in Figures 2 and 3. Still, this practice is not universal and consequently the physical layout, while important as a clue, should not be taken as conclusive evidence for

or against a particular system. Additional testing, as described below, is still required.

When the stages are laid out as they are in Figure 1, the differentiation between the two IF systems is readily carried out. When you come to the point where you suspect the separation occurs, pull out one of the tubes and observe whether you lose the picture or the sound or both. If the picture only is lost, then the tube you have pulled out is in the video system beyond the point of signal separation. To locate the exact stage in which the separation occurs, go back one stage and pull this tube out. If both sound and video are lost, then you have located the separation point as existing between the present stage and the previous tube pulled out. If only the video is affected, repeat the foregoing procedure, moving back one more toward the front-end tuner.

By this process it is readily possible to trace the video signal right up to the picture tube and the sound signal to the loudspeaker.

The remaining sections of the receiver consist primarily of the sync separators, the vertical sweep system and the horizontal sweep system. Removal of any tube in the sync separator stages will throw both vertical and horizontal sweep systems out of sync.

♦ ♦ Please turn to page 55 ♦ ♦

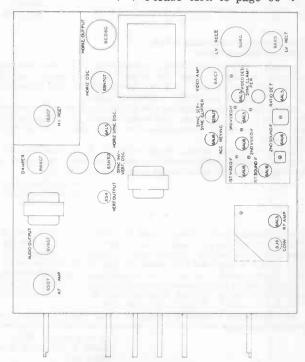


Fig. 1. Tube Layout Diagram of a Conventional Separate Channel IF Television Receiver.

Video Detection and Amplification

by W. William Hensler

A discussion of requirements and commercial application of Video detectors and amplifiers.

The purpose of the video detector in a television receiver is to detect the modulation signal from the video IF carrier. This is accomplished in a manner similar to that used in detecting audio signals in broadcast receivers. The composition of the detected video signal in television, however, requires a detector capable of handling a range of frequencies from about 30 cycles to 4 megacycles per second.

To correctly reproduce the modulation signal a video detector should possess the following capabilities.

- 1. Linear operating characteristics.
- 2. Low interelectrode capacity.
- 3. Low dynamic resistance.
- 4. Good frequency response.

For a detector to operate in a linear manner, all variations of signal amplitude must be reproduced in the detector output. High level amplitudes occur during sync pulse time, while low levels are present when a signal results from the scanning of a light area. Inability of a detector to follow amplitude variations would result in a picture of poor quality.

Low dynamic resistance of a detector makes available more video signal in the detector output.

Low interelectrode capacity of a detector is particularly important because of the high frequencies contained in the video signal. The effect of the capacitance is to shunt a portion of the signal in the detector output. This is especially true at high modulation frequencies since the reactance of a capacitance decreases with an increase of frequency $(X_C=\frac{1}{2-f_C})$. Therefore too large an interelectrode capacity in the detector would shunt the high frequencies of the signal to ground causing a severe loss of detail in the picture. Good frequency response is vital for correct detector operation. The response is mainly dependent upon the characteristics of the detector circuit and the interelectrode capacity.

Detector Circuit Operation

The primary function of a video detector is to rectify an alternating current to produce a uni-directional signal in the output. The most popular type video detector is a half-wave rectifier. It normally consists of one section of a dual diode tube, such as a type 6AL5, or it may be a germanium crystal diode. Figure 3-1 shows four basic circuits using either a diode tube or crystal diode for the detector. The diodes of Figures 3-1A and 3-1B are connected as

series detectors while a shunt connected detector is shown in Figures 3-1C and 3-1D. Signal polarity at the output is determined by the diode element to which the video IF signal is applied. In the case of the series detector a positive-going video signal is obtained when the input is fed to the diode plate and a negative-going signal results when the input is applied to the cathode. The opposite polarity results when a shunt detector is used. When the input is connected to the diode plate, a negative signal is obtained, while applying the signal to the cathode gives a positive signal.

The rectified signal is developed across the diode load resistor. The value of this resistor is

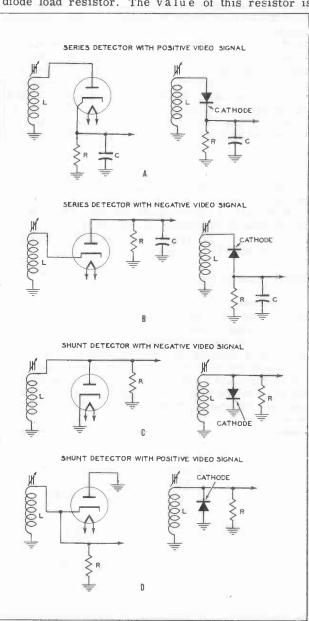


Figure 3-1. Basic Video Detector Circuits.

around 4000 ohms which is quite small as compared to diode load resistor in broadcast receivers. There is also a loss of gain resulting from the low value resistor and this loss must be compensated for by the use of multistage video IF amplifiers to increase the signal level at the input of the detector. However, the low-value diode load resistor aids in maintaining a flat frequency response.

Video IF components are still present across the diode load. In other words the amplitude of each video IF pulse is determined by the amount of modulation signal present at that time. Since this video IF signal acts only as the carrier of the modulation information it is no longer required and therefore is bypassed to ground. A small value capacitor of about 5 mmf. is usually employed as an AF filter. The reactance of this capacitor is sufficiently small at IF frequencies that they are shunted to ground. Further discussion of the elimination of video IF components from the detector output is given under high frequency compensation. Another explanation of the action of the RF filter in producing the desired modulation signal would be that each rectified video IF pulse charges the capacitor to a certain level. Using Figure 3-1A, for example, the cathode would then have a positive potential almost equal to the amplitude of the rectified IF pulse. The time constant of the RF filter and the diode load is such that the capacitor discharges only partially before the next IF pulse is present.

The RF filter, however, must discharge at a rate sufficient to follow variation of the modulation envelope. Too long a time constant of the filter network introduces distortion in the detector output resulting from peak clipping of video IF pulses. The RF filter thus acts to free the picture modulation signal from the video IF components.

High Frequency Compensation

To extend the high frequency response of video detector circuits, small inductors are used in the output. These inductors, or peaking coils, may be connected as series-peaking coils or shunt-peaking coils, or a combination of both. The peaking coils, along with the distributed capacity of the components and wiring, the interelectrode capacity of the detector and input to the succeeding stages, are designed to approach resonance at the highest modulation frequencies.

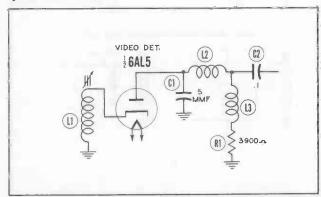


Figure 3-2. Diode Detector Having Negative Signal Output.

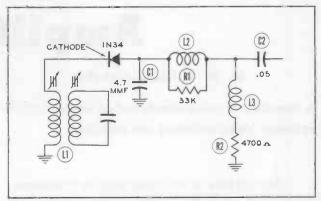


Figure 3-3. Crystal Detector Having Negative Signal Output.

Shunt peaking coils are connected in series with the diode load resistor. At the higher modulation frequencies the increasing reactance of the peaking coil tends to counteract the decreasing reactance of the shunt capacity, thus keeping the load constant and extending frequency response.

Series peaking coils are connected between the detector output and the input to the following stages. A series peaking coil together with the detector output capacity and the input capacity of the succeeding stage forms a low pass network. All picture modulation frequencies are passed by this network while higher video IF frequencies are attenuated. The series inductor also isolates the input capacity of the video amplifier from the detector output, permitting a larger value of load resistor to be used.

To achieve maximum efficiency in a video detector circuit, a combination of both series and shunt peaking coils is used.

Video Signal Polarity

The manner in which a diode is connected in a video detector circuit determines the polarity of the video signal. By noting that signal polarity reverses when passing through a video amplifier tube, it is possible to connect a diode detector so that the required polarity of signal is available at the modulated element of the picture tube. To modulate the cathode of a picture tube, a positive-going signal is required, while a negative-going signal is necessary when the grid is modulated.

Typical Video Detector Circuits

Figure 3-2 shows a video detector circuit employing one section of a type 6AL5 dual diode tube as a detector. The input consists of a resonant circuit composed of a video IF coil, L1, and the input capacity of the detector. A negative-going signal obtained at the detector plate is passed through the low pass filter made up of a 5 mmf. capacitor (C1), a series peaking coil (L2), and the input capacity to the following stage. A shunt-peaking coil for extending frequency response at high modulation frequency is in series with $R_{\rm L}$, a 3900 ohm diode load resistor. The signal developed across L3 and $R_{\rm L}$ is coupled by C2, a 1 mfd. capacitor, to the input of the following video amplifier stage.

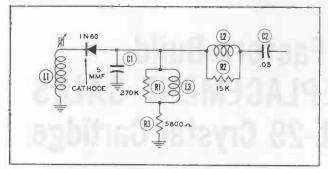


Figure 3-4. Detector with Peaking Coils and Shunt Resistors

A similar circuit is shown in Figure 3-3. However, an absorption trap is coupled to L1 for rejecting sound IF frequencies. The detector used in Figure 3-3 is a germanium crystal diode type 1N34. RL, shunting L2, is a 33K ohm resistor that damps out self-oscillation, which may tend to occur at certain frequencies.

A type 1N60 crystal diode is used as the video detector in Figure 3-4. Both the series and shunt peaking coils have parasitic suppressor resistors across them. The shunt and series peaking coils are shunted with 270K ohms and 15K ohms respectively. Since the value of the resistors is several times that of the coils, the total impedance remains essentially the same.

In Figures 3-2, 3-3, and 3-4, it is observed that the diodes are connected as series detectors. With the IF signal applied to the cathode and the output taken off at the plate, a negative-going video signal is obtained. Figure 3-5 has a series-connected diode,

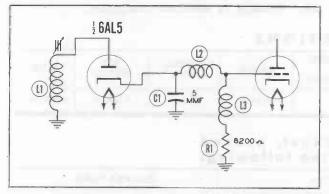


Figure 3-5. Diode Detector Having Positive Signal Output.

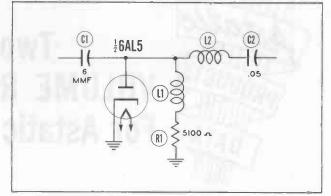


Figure 3-6. Shunt Connected Diode Detector.

but the IF signal is applied to the plate and a positivegoing signal results at the cathode.

A shunt-connected diode detector is shown in Figure 3-6. A positive IF signal on the plate causes diode conduction which effectively places a low-resistance shunt across the signal. On negative pulses the diode will not conduct and therefore a negative signal appears in the video output.

Germanium Crystal Diodes as Video Detectors

Germanium crystal diodes play an important part in television receiver circuitry. A few uses for the crystals are as video detectors, DC restorers, AGC and bias rectifiers. In the application of germanium crystal diodes as video detectors, certain properties make them acceptable for wide useage. Their small size, low dynamic resistance, high efficiency, low internal capacity, and the fact that they require no filament current, are some of their important features.

Due to the small size of germanium crystals they may be connected directly in the circuit in which they are used. Low dynamic resistance and high efficiency of germanium crystals result in a greater amount of signal in the detector output. The nominal shunt capacity of 1 mmf. for germanium crystals reduces shunting effect on high modulation frequencies to a minimum. Since filament current is not required to operate the crystals, and mounting sockets and hardware are not needed, there is a saving in materials, and space limitations present no problem.

Germanium crystal type 1N34 has been frequently used as a video detector in television receivers. Later type crystals specifically designed to operate as video detectors are types 1N60 and 1N64.

VIDEO AMPLIFIERS

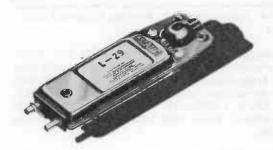
The amplitude of the signal required to modulate the picture tube depends upon the type of picture tube employed. A seven-inch tube, having approximately 4000 volts applied as high voltage, will require a video signal level of 33 to 40 volts for full contrast. A tenor twelve-inch tube, with a high voltage of 9000 volts, will require a video signal of 45 to 60 volts for full modulation. The 11,000 to 14,000 volts used on larger tubes make necessary even a greater amplitude of video signal.

In order to see why a greater amplitude video signal is required as the high voltage is increased, compare the operation of the picture tube with that of a conventional vacuum tube. The reproduction of a black portion of a picture is accomplished by cutting off the electron beam in the picture tube. In the conventional tube a signal of sufficient negative polarity can be applied to the grid to cut off all plate current. Assume for the moment that a negative DC potential is applied to the grid of a triode tube. The bias level



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The L-29 is designed to play all record types. Furnished without stylus, it has a standard chuck to receive conventional shank needles with proper tip for the record type to be played. Provides maximum output consistent with high compliance and other performance factors necessary for full, rich reproduction. Housing is stamped aluminum.

SPECIFICATIONS

MODEL	ELEMENT TYPE	MINIMUM NEEDLE PRESSURE	OUTPUT VOLTAGE 1KC 1.0 MEGOHM LOAD	RANGE	NEEDLE TYPE	NET WEIGHT	CODE
L-29	Crystal	10 Grams	3.0	50-5,000	Conv.	8 Grams	ASWTS

The L-29 is an exact, proved replacement for the following:

SHURE			WEBSTER	ELECTRO VOICE	
W53MG	P89	P93D	FIP	50	
W56A	P90D	P93MG	F3P	60	
W57Ā	P93	P94	F5P		
P87	P93B	P94B	F7P2		
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Write for new replacement cartridge listing covering Philoo (Form #52) and Columbia (Form #53) phonographs and phonograph combinations.



Astatic Crystal Devices manufactured under Brush Development Co. patents

Vertical Retrace Blanking Circuits

by MERLE E. CHANEY

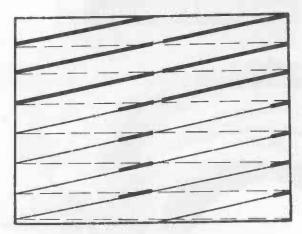


Figure 1. Visible Vertical Retrace Lines.

An interesting circuit used in many television receivers is one which provides for positive blanking of the beam in the picture tube during the period of vertical flyback or retrace. When these retrace lines are visible they are evidenced as several white lines extending across the face of the tube from left to right in an upward direction. These lines may be solid white or under some conditions blank spaces may exist in the lines due to the intensity modulation effect of equalizing or vertical sync pulses. Figure 1 illustrates these lines as they may appear during retrace period.

It is true that the transmitted signal incorporates its own provision for blanking of the beam during both horizontal and vertical retrace, but the effectiveness of the signal in accomplishing this purpose is occasionally restricted by various conditions which may exist at the receiver. Perhaps the chief

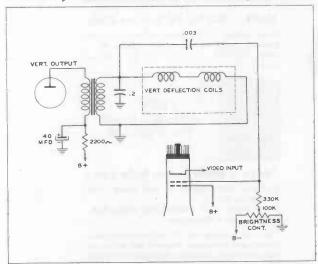


Figure 2. Retrace Blanking Applied to Picture Tube Grid.

cause of visible retrace lines is improper setting of the controls. Other contributing factors may be the result of insufficient signal strength present at the receiver due to the distance from the transmitting station, a poorly connected antenna, the nature of the antenna itself and its orientation in reference to the transmitter. The above circumstances may result in visible retrace lines because the blanking level in the received signal is insufficient to eliminate them. These lines may also be observed if the DC restorer fails to restore the correct DC component on the modulated element of the picture tube.

In order to further understand the nature of retrace lines it might be well to observe their makeup. The easiest way in which to see the retrace lines is to turn the vertical hold control so the vertical oscillator is operating free running. The vertical blanking bar will then be observed moving vertically on the picture tube. Vertical flyback then occurs during a time when the beam is unblanked, thus making the vertical retrace lines visible. The vertical oscillator may then be returned to a sync condition and retrace lines again can be seen if the brightness control is advanced too high resulting in an incorrect bias on the picture tube. The blanking provision of the signal would then be insufficient to effect beam cutoff.

Greater emphasis has been placed on vertical retrace lines than on horizontal retrace lines. The reason is that horizontal retrace lines are not so readily apparent. However, there is some picture degradation when horizontal retrace lines are present.

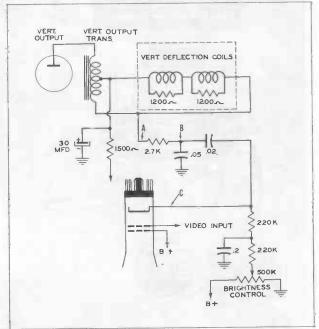
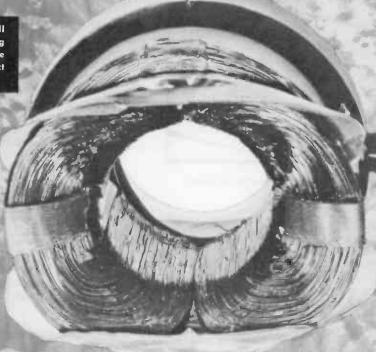


Figure 3. Retrace Blanking Applied to Picture Tube Cathode.

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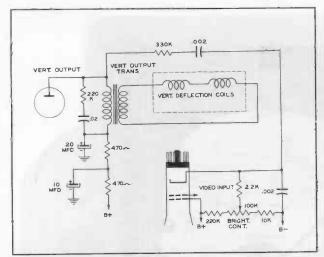


Figure 4. Blanking Pulse Taken From Vertical Output Tube.

It should be understood that those lines commonly referred to as vertical retrace lines, actually are forward horizontal traces occurring during the vertical flyback period. For the purpose of designation, however, they are condisered as vertical retrace lines.

The method employed in many receivers to eliminate vertical retrace lines consists basically of a circuit to couple a pulse voltage from the vertical deflection circuit to one of the elements of the picture tube. This pulse is the result of the induced voltage present when the field of the magnetic elements in the vertical deflection circuits collapses during flyback. The vertical flyback voltage may be further acted upon by a differentiating circuit to remove the vertical scanning component, and by an integrating filter to remove high-frequency components. When this pulse, of proper polarity and amplitude, is applied to the picture tube, the electron beam is cut off. It is obvious then that the retrace lines are blanked out at all times regardless of the amount of

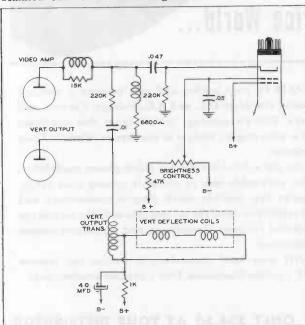


Figure 5. Blanking Pulse Applied to Video Output.

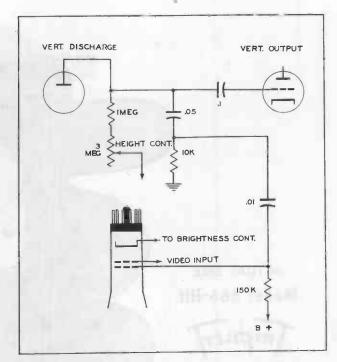


Figure 6. Blanking Voltage Taken from Vertical Discharge Network.

signal strength available, or the setting of the receiver controls.

There are a number of ways in which the picture tube may be driven beyond beam cutoff during the vertical retrace period. A description of a few of the representative circuits used in television receivers to accomplish this purpose follows.

Figure 2 shows a circuit for applying a blanking pulse from the secondary of the vertical output transformer to the grid of the picture tube. Bias is also applied to the grid while the cathode is modulated by the video signal. For this circuit to be effective in blanking retrace, lines it is necessary that a negative-going pulse be applied to the grid of the picture tube.

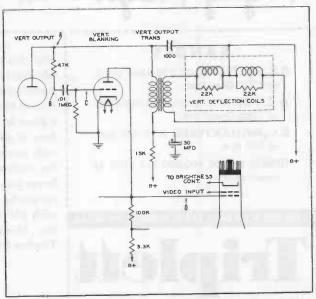


Figure 7. Additional Tube Used to Generate Blanking Signal.



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A positive-going blanking pulse is applied to the cathode of the picture tube in Figure 3, with bias connected to the same element. In this instance an auto-type vertical output transformer is used in the vertical deflection circuit.

Another source of blanking voltage is shown in Figure 4 where the pulse is obtained at the plate of the vertical output transformer and then applied to the picture tube cathode. Modulation of the same element in the picture tube by both the video signal and the vertical blanking voltage is shown in Figure 5.

The vertical discharge network may also be a source of blanking voltage as in Figure 6. Beam cutoff occurs when the pulse reduces the positive potential on the accelerating anode of the picture tube.

A rather elaborate means for obtaining retrace blanking is used in the circuit of Figure 7. The signal from the plate of the vertical output tube is connected through a Jecoupling network to the grid of a vertical blanking tube. The plate of the blanking tube is connected to the accelerating anode of the picture tube. The vertical flyback pulse is modified by the blanking tube to give a sharp pulse of sufficient magnitude to insure beam cutoff in the picture tube.

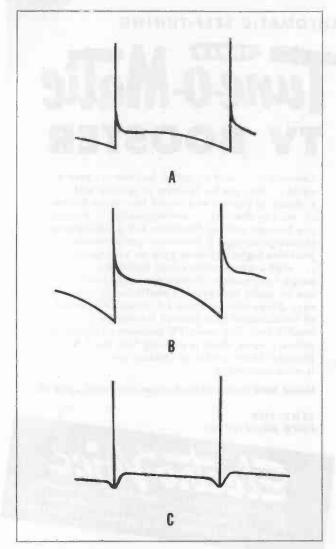


Figure 8. Waveforms in the Circuit of Figure 3.

It might be interesting to note some of the waveforms that are present in vertical blanking circuits. Figure 8A, B, C, shows waveforms observed in the circuit of Figure 3. The points to which each waveform applies is designated on the schematic of Figure 3. In Figures 9A through 9D are waveforms present at the designated points of Figure 7.

Examination of the schematics and waveforms for some of the representative vertical retrace blanking circuits should be helpful in acquainting one with their operation and purpose.

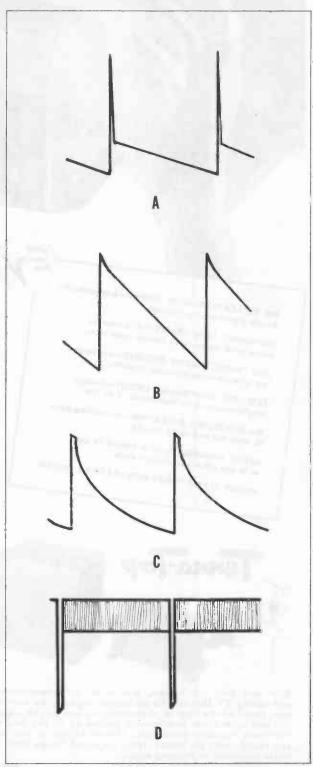


Figure 9. Waveforms in the Circuit of Figure 7,



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A Comparison of CBS Color and Present Monochrome Standards

by VERAL M. SHIELDS

In order to understand the techniques employed to produce a color picture with the CBS system, it is necessary to become familiar with the nature of the transmitted signal. Also, a comparison of these standards with those of the present monochrome system will provide a basic knowledge of the changes required to adapt existing television sets to receive CBS color telecasts in color or black and white. The following description will assist in these objectives.

In the present black and white or monochrome television system, only the relative light intensity of the picture image is transmitted and reproduced at the receiver. The picture image is scanned element by element and the amplitude level of the transmitted signal is inversely proportional to the light intensity of the element being scanned. The picture is reproduced on a luminescent screen in black and white or in shades of gray.

The addition of color to the television picture requires the reproduction of the many different colors distinguishable to the eye. The actual reproduction of the many different colors is greatly simplified by the fact that all colors can be very closely reproduced by combining just three colors, known as additive primary colors. These colors are red, blue, and green. By combining these primary colors in the proper proportion, it is possible to reproduce any color. The color match can be made so faithfully that only simultaneous inspection of the original color and the reproduction will reveal any difference.

In the CBS color system, the color picture is evaluated for the individual light intensity of each of the primary colors and is transmitted and reproduced one after the other, in time sequence. The color camera is alternately made sensitive to each of the primary colors - red, blue, and green. When the camera tube is photosensitive to a particular color, the signal output of the camera tube at that instant is representative of only that particular color.

The color camera used in the CBS color system is similar to the conventional black-white camera. The chief difference is the insertion of a rotating color filter disk between the lens and the photosensitive plate of the camera tube. The filter disk contains transparent color filter segments that permit light to pass on to the sensitive plate of the camera tube. This filter disk contains six filter segments, two for each of the primary colors - red, blue, and green.

The color of the filter segment in front of the camera tube at any particular instant and the color, as well as the brightness, of the object being televised, determine the intensity of light that reaches the camera. Whenever the red filter segment is between the color object and the sensitive plate of the camera tube, only the red content of the color object

is passed through the filter. The output of the camera tube and the transmitted signal at that instant will be representative of the amplitude level of the red content of the color object. The same is true for the blue and green filter segments, the blue passes blue content and the green passes green content to the camera tube.

At the receiver, the signal appears in black and white on a conventional black and white picture tube. However, by placing a rotating color filter disk (similar to that used at the camera) between the viewer and the luminescent picture tube, color is restored to the conventional black and white picture. By synchronizing the disk rotation at the receiver with the disk rotation at the camera tube, the red filter segment will be between the viewer and the receiver screen when the red filter segment at the camera is between the televised scene and the sensitive plate of the camera tube.

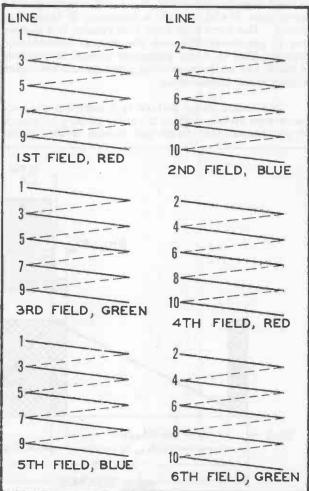


Fig. 1. Field Sequential Color System Scanning Pattern.

The viewer will be observing a black and white picture that is representative of the red content of the televised scene, through a red filter. Consequently, the picture will appear as red to the viewer. The same is true when the blue and green filter segments are between the viewer and the receiver screen. Although the viewer is alternately observing a red, blue, and green picture, persistance of vision and the rapid rate of color change cause the picture to appear to blend as though all three colors existed simultaneously.

Field Sequential Scanning

Color shift (making camera sensitive to each of the primary colors in a definite order) in the CBS color system is performed after each field, hence the name field sequential system. As in the monochrome system, line interlace is used to increase vertical resolution. Figure 1 shows the scanning pattern of the field sequential color system.

All the lines of one field are scanned in red, the next field in blue, the next in green and so on, in the sequence red, blue, green. After six successive fields, all lines have been scanned and evaluated in each of the primary colors. This represents a complete scanning cycle and is termed a "Color Picture."

The fields are scanned at the rate of 144 per second. This is considerably higher than the 60 CPS field rate of the monochrome system. The increase in field rate is necessary to allow scanning of all three color fields with a minimum of large area flicker. The increased field rate results in a system that is not compatible with the present monochrome system. That is, color programs cannot be received in black and white on existing monochrome receivers without some modification.

An entire color picture is completed after six successive fields, making the color picture frequency 24 per second (144 fields per second divided by six

fields per picture). This corresponds to the 30 cycle frame frequency of the monochrome system.

With the increased field rate of the color system, it is necessary to reduce the number of horizontal lines per frame in order to meet the FCC requirement that the color system operate in a six megacycle channel. The number of horizontal lines per frame of the color system is 405, divided into two fields of 202-1/2 lines each. This compares with the 525 lines per frame, 262-1/2 lines per field, of the monochrome system. The horizontal line rate is 29,160 lines per second (202-1/2 lines per field times 144 fields per second). This corresponds to the 15,750 lines per second of the monochrome system. Table A gives a standards comparison of the CBS color and monochrome systems.

Color Disk

The synchronized rotating disk contains six color filters arranged in the order red, blue, green, red, blue, green. The disk rotates at 1440 revolutions per minute making 8,640 (1440 x 6) filter segments move past the sensitive plate of the camera per min ute. Dividing by 60 provides the field rate of 144 per second.

To prevent color contamination, it is necessary that the color disk proceed down in front of the screen, moving parallel with the scanning lines. When the line at the top of a field is being scanned by a red signal, the bottom of the red filter should move into position and follow the scanning lines as they proceed down the screen. When the last line of the red field is completed, the red filter should cover over the previous scanned lines of that field so that the viewer sees a complete red picture. The blue filter should move into position at the instant that the blue signal arrives for the top line. If this condition is not met, the viewer will observe certain lines through one color filter while the same lines are being scanned by another color signal.

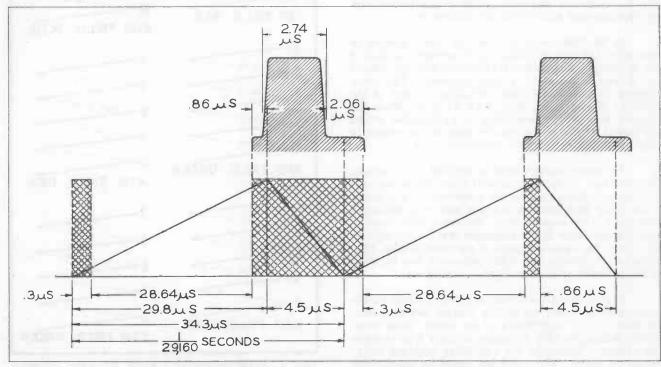


Fig. 2. CBS Color System Horizontal Scanning Wave.

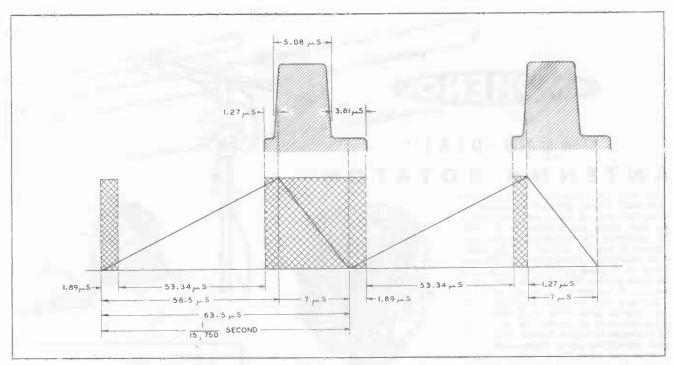


Fig. 3. Monochrome System Horizontal Scanning Wave.

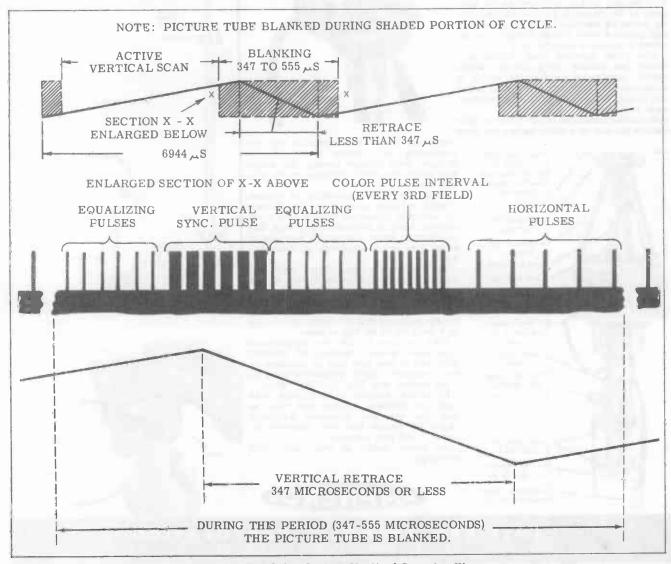


Fig. 4. CBS Color System Vertical Scanning Wave.

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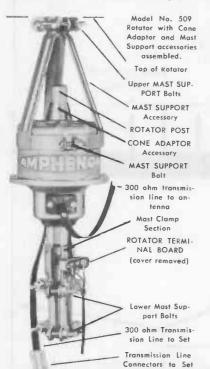
Up until the introduction of Amphenol's "Auto-Dial" Rotator, ordinary televiewing rotators have not had the accuracy required in the field, shops and laboratories of trained TV technicians. The technician's rotator must repeatedly stop the antenna "on the nose," if his comparative antenna or signal measurements are to mean anything. He must know the exact position of the antenna not only at the end of, but throughout its rotation.

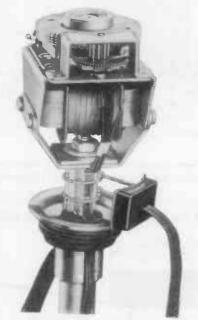
The new, fully automatic Amphenol "Auto-Dial" Rotator meets these requirements and is fast becoming as important to the successful technician as 'scopes, sweeps, vtvom's and other dependable service instruments.

When the "Auto-Dial's" control knob is turned, the electrically controlled brake is released and the weatherproofed, ribbed steel housing rolls on lubricated-for-life bearings. As the powerful, single directional motor drives its associated solid steel gears, it also creates a pulse voltage through a special switch to operate a solenoid relay.

This pulse operated relay mechanically moves the control unit's breaker wheel switch, aligning it so that the circuit is broken and the brake set, electrically, at any one of sixty different directions of six degrees each, as selected.

Operating clockwise in one direction only permits the use of a motor having the same





power and torque as a reversible type approximately 40% larger. This affords a stronger, more compact housing that means less weight and wind resistance on the support mast.

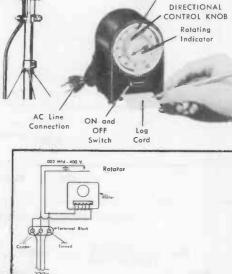
Gone, too, is the possibility of twisted, snarled, or broken antenna lead. For, the signal energy is transferred through solid silver contacts riding on silver alloy slip rings. This self-cleaning action maintains a minimum of signal loss and a maximum of impedance match.

An inner arrow dial, placed within the control knob, is synchronized with the antenna's position during rotation so that you can "see" antenna direction at the control unit at all times. And, an audible click briskly reassures that the rotator is in action as it steps off its six degree stops.

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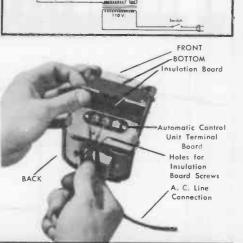
Its simple, because its completely automatic! Its bulls-eye accurate and twice as fast! Yes, the new, automatic Amphenol "Auto-Dial" rotator has been designed for you...and your customer.

Get yours, today, at your radio parts distributor.



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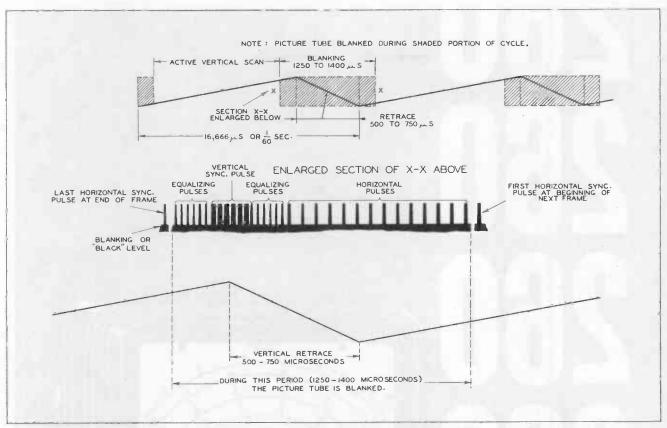


Fig. 5. Monochrome System Vertical Scanning Wave.

A motor is used to drive the color disk. The motors at the camera and at the receiver are locked in synchronism with the field scanning rate. A motor control unit compares the speed of the motor with the field scanning rate and automatically locks them in synchronism. A pushbutton or automatic color phasing circuit may be used in conjunction with this motor control unit to insure the correct color phase.

Synchronization Generator Waveforms

An examination of Figures 2, 3, 4, and 5 shows the similarity of the CBS color and the monochrome synchronizing waveforms. The horizontal, equalizing, and vertical sync pulses of the color system are of the same general form and they perform the same functions as they do in the monochrome system. However, the time interval of the blanking and sync pulses of the color system are of much shorter duration.

As shown in Figure 4, color sync pulses have been inserted immediately following the equalizing pulses of every third field. These pulses are used to automatically insure the correct color phase and motor speed. However, color phase and motor speed may be controlled without the use of the color pulse signal.

Similarity of Monochrome and Color Receivers

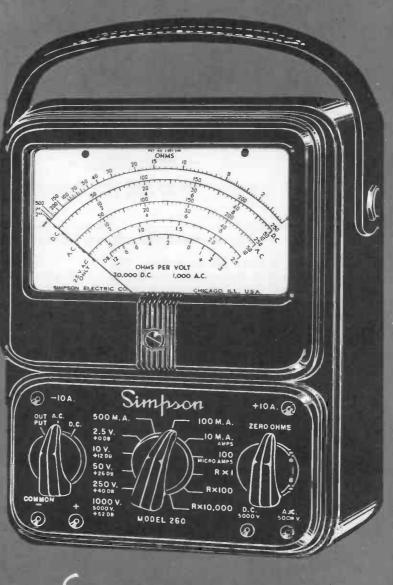
Some sections of the standard black and white receivers may be utilized in CBS color system receivers. No substantial changes are required in the tuner, video IF amplifiers, video amplifiers, sound IF and audio amplifiers. Possibly some additional filtering may be used in these circuits to reduce hum difficulties arising from three beat frequencies: 12, 24, and 84 CPS.

In the field sequential color system, the scene is scanned once in each of the three primary colors during three fields or in 3/144th (1/48th) seconds. Whenever the intensities of the primary colors are not the same in each field, a strong 48 CPS component may be present in the video signal. If a 60 CPS hum component is also present, a 12 CPS beat frequency appears. This results in an annoying 12 cycle flicker.

The 84 CPS appears as a beat between the 60 CPS power supply and the 144 per second field scanning rate. The 24 CPS hum component is the result of the second harmonic of the power supply (120 CPS) and the field rate. The 24 and 84 CPS hum components do not appear as flicker as they are above the fusion frequency, but they can readily produce a shimmer or jitter of the scanning lines if any 60 CPS or 120 CPS hum component is present in the deflection circuit.

The sync amplifier and separator circuits are essentially the same as in the conventional black and white receiver. The higher field rate of the CBS color system necessitates some changes in the vertical integrator, vertical oscillator, and vertical output circuits of the color receiver. The vertical oscillator is designed to operate at 144 CPS. Since the retrace time is 347 microseconds, or less, for the color system, as compared to 833 microseconds, or less, in the monochrome system, it is necessary to make some changes in the discharge elements to accomplish the faster retrace.

The horizontal line rate of the color system is 29,160 lines per second. Consequently, the horizontal oscillator circuit is redesigned to operate at this frequency. The retrace time of the horizontal sweep is also greatly reduced. Retrace must be accomplished in 4.5 microseconds, as compared to 8.3 microseconds for the monochrome system. Thus the



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Converting the Olympic XL210

by Robert B. Dunham

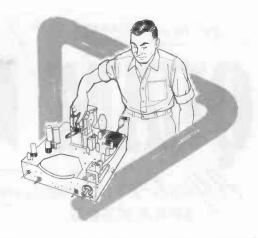




Figure 1. Receiver in Cabinet Before Conversion.

The dimensions of the Olympic Model XL-210 (See Figure 1) are such that a 16" rectangular, or larger, picture tube, cannot be mounted in the cabinet. Since this conversion was made for a 20CP4A picture tube, with the completed assembly (Shown in Figure 2) to be mounted in a custom installation, the original cabinet was not retained.

A partial schematic of the original circuit is shown in Figure 3. To make the necessary changes

in the HV compartment (See Figure 4) the cover and the tubes in the cage were removed. The complete cage was lifted from the chassis after unsoldering the leads to the fuse, to the HV filter capacitor, to terminals 4 and 5 on the horizontal output transformer and removing the five self tapping screws securing the cage to the chassis. The transformer and width coil were then removed after taking out the four 8-32 machine screws holding the transformer to the cage, slipping the width coil out of its mounting bracket and

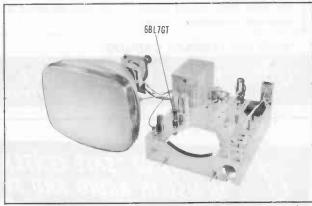


Figure 2. Chassis and 20CP4A After Conversion.

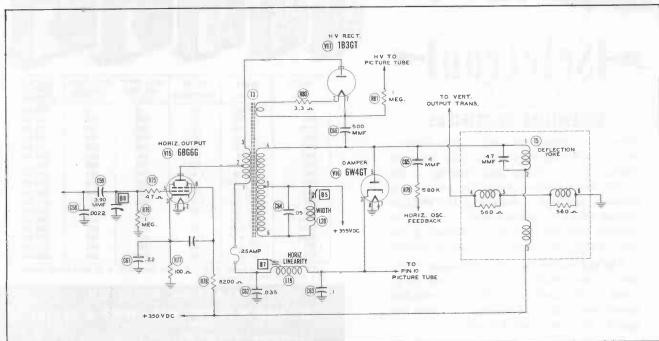


Figure 3. Schematic Before Conversion.

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8Y1	1/2" sq.	9"	130	380	20 MA*
16Y1	1/2" sq.	18"	260	760	20 MA*
831	₩ sq.	9 "	130	380	65 MA
5M4	1" sq.	11"	130	380	75 MA
5M1	1" sq.	7/8"	130	380	100 MA
5P1	13" sq.	7/8"	130	380	150 MA
6P2	1,3" sq.	1 13"	156	456	150 MA
5R1	11/2" x 11/4"	7/8"	130	380	200 MA
501	11/2" sq.	11/8"	130	380	250 MA
6Q1	11/2" sq.	11/8"	156	456	250 MA
602	11/2" sq.	13/8"	156	456	250 MA
604 (+)	11/2" sq.		130	380	300 MA
5QS1	11/2" x 2"	11/8"	130	380	350 MA
6QS2	11/2" x 2"	11/4"	156	456	350 MA
5S1	2" sq.	11/8"	130	380	500 MA
6\$2	2" sq.	13/8"	156	456	500 MA

* This rectifier is rated at 25 MA when used with a 47 ohm series resistor. (†) Stud mounted—overall: 2"

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unsoldering the filament leads to the HV rectifier socket and the fuse.

At this time the mounting hole for the width coil was enlarged to fit the Merit MWC-1 coil which was then clipped into the bracket to replace the original unit.

The Merit HVC-7horizontal output transformer, used in this conversion, was installed on the HV cage in the space formerly occupied by the original transformer, using the same mounting holes and screws. The high voltage lead was unsoldered from its terminal on the rectifier socket mount and a new lead, long enough to connect to the picture tube in its operating position, was connected in its place. The filament leads were then soldered to the proper terminals on

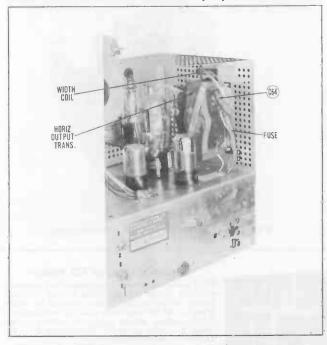


Figure 4. HV Compartment Before Conversion.

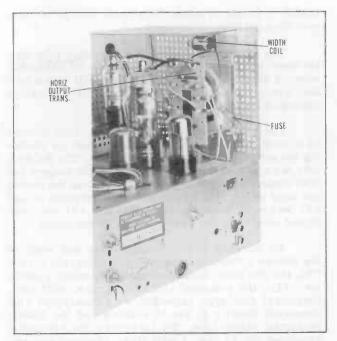


Figure 5. HV Compartment After Conversion. (Type HVO-7)

the rectifier tube socket and the HV cage mounted back in position on the chassis (See Figure 5).

The fuse was connected to the blank terminal (#7) on the transformer, as a tie point, and a lead connected from there to terminal #1, placing the fuse in the circuit. The wiring of this portion of the circuit was then completed as shown in Figure 6.

The damping capacitor and resistors were installed in a Merit MD70-F deflection yoke; following the manufacturer's instructions. The yoke and focus coil mounting assembly (See Figure 7) was taken off the chassis by removing the four sheet metal screws securing it. The original yoke was disconnected and the MD70-F yoke installed in its place with leads of

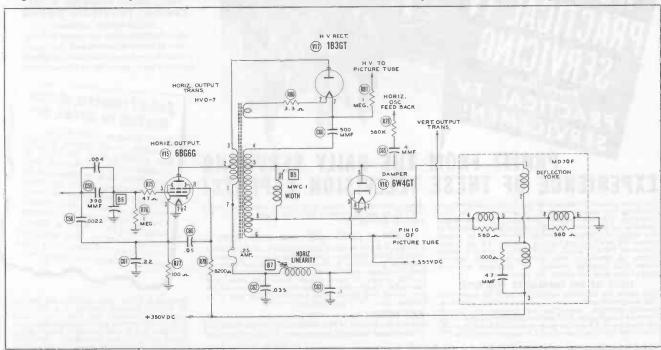


Figure 6. Schematic After Conversion (Type HVO-7)

sufficient length to mount the picture tube in its final operating position.

The leads to the focus coil and picture tube socket were lengthened to match those on the deflection yoke. A lead from the yoke and focus coil mount was also connected to the chassis, to ground the outside coating of the picture tube.

The yoke and focus assembly was then blocked up to form a temporary picture tube mount for checking the actual operation of the receiver. The 20CP4A tube was mounted in the yoke, a single magnet ion trap magnet installed on the tube, replacing the double one used on the 12LP4 tube, the socket plugged on and all necessary connections made. The set was then turned on and checks were made on its operation.

To increase the horizontal drive and width of the picture a .004 mfd. capacitor was connected across C59, the 390 mmf. horizontal sweep coupling capacitor. Also, the grounded lead of C58, the .0022 mfd. horizontal discharge capacitor, was unsoldered and connected directly to pin #3 (cathode) of the 6BG6G horizontal output tube. To improve the horizontal centering the 33 ohm 1 watt filter resistor was removed and replaced with a 39 ohm 1 watt resistor, with a .5 mfd. capacitor connected across it for bypassing.

To increase the vertical sweep, a 6BL7GT tube was used as a direct replacement for the 6SN7GT vertical oscillator and output tube. The 56,000 ohm shunt resistor across the primary of the vertical output transformer was removed. To improve height and linearity, a 3300 ohm 1/2 watt resistor was connected across the vertical linearity control, the 560 ohm vertical output cathode resistor was replaced with a 390 ohm 1/2 watt resistor and the vertical blocking oscillator plate resistor was changed from 1 megohm to 470,000 ohms 1/2 watt.

Operation was also checked with a 14BP4A and a 16TP4 picture tube with very satisfactory results.

Conversion with STANCOR A-8129

The conversion to operation with the 20CP4A was also made by replacing the original horizontal

♦ Please turn to page 61

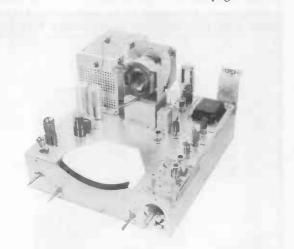


Figure 7. Chassis Before Conversion.

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♦ Continued from page 7 • •

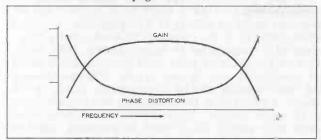


Figure 4-1. Amplitude and Phase Distortion Curves.

is adjusted to a point where the plate current just reaches zero. If the supply voltage to the plate of the tube were increased, plate current would then flow and a greater negative bias would be required to again cut off the plate current. This also applies in the case of picture tubes. With a higher voltage (similar to plate voltage in the conventional tube) a higher amplitude of the modulating signal will be required.

The gain of the video amplifier need only be in the order of 20 or 30 and it would seem that very little difficulty would be experienced in its design. The complexity of the video signal, however, makes necessary the design of an amplifier having a flat response over a wide range of frequencies. In order to faithfully reproduce the transmitted picture, all frequencies from 30 cps to 4 megacycles must receive equal amplification. This requires a video amplifier having a flat response within this range. There must also be a minimum of phase shift at all frequencies to prevent displacement of picture elements from their proper positions. A variation in gain of an amplifier is caused by the change in reactance of the inductive and capacitive components in the circuit. This change in reactance also causes phase shift which is inversely proportional to the gain of the amplifier. The relationship of these two curves is shown in Figure 4-1.

At the low modulation frequencies, keeping the phase angle of the signal at a minimum is of much greater importance than at the higher modulation frequencies. Due to the longer time required for one cycle at the low frequencies, a phase displacement of only a few degrees results in considerable time delay. For instance, a phase shift of only 5 degrees of a 60-cycle signal results in a time delay of 231 microseconds. Such a time delay would displace the picture element nearly four lines, which would have a smearing effect on the picture.

At the higher modulation frequencies, however, phase shift is much less harmful. In order to repro-

duce fine detail in the picture these high modulation frequencies must be present and any loss in their amplitude will result in loss of fine detail. Due to the short time duration of each cycle at high frequencies, considerable phase shift can be experienced without impairment of the picture. As an example, a 10-degree phase shift at 3 megacycles results in the displacing of a picture element only .02 inches in a 16-inch tube.

From the qualifications set forth, it can be seen that the video amplifier should meet the following requirements:

- 1. Adequate gain to modulate the picture tube at full contrast.
- 2. Amplification of all frequencies from 30 cps to 4 megacycles with a minimum of amplitude and phase distortion.

High Frequency Compensation

The decrease in gain at the higher frequencies in the uncompensated amplifier is caused by the capacitive reactance of the shunt capacity in the circuit. As the frequency increases, the capacitive reactance decreases and since it is effectively in parallel with the load of the tube, it tends to decrease the gain. Figure 4-2A is a schematic of an uncompensated amplifier. The dotted capacitors represent the shunt capacities which are present in the circuit. The total shunt capacity is made up of C out, C stray, C in and the dynamic input capacitance of the tube produced by the Miller Effect, which is stated as $C_{gp}(A+1)$. As long as the capacitive reactance of the shunt capacity is large as compared to the plate load, no decrease in gain is experienced. At the higher frequencies, however, the capacitive reactance approaches the value of the plate load resistor and in some cases may be even less, which results in a loss of gain at the high frequencies. By using as low a value of plate load as possible, the gain at the high end can be held more constant.

There is a limit as to how low the plate load can be reduced, however, since the gain of the stage is proportional to the value of the plate load. This relationship is shown in Figure 4-3. If the plate load is too low, the stage will not provide sufficient gain.

Shunt Peaking

By adding a reactive component, whose reactance increases as frequency increases, in series

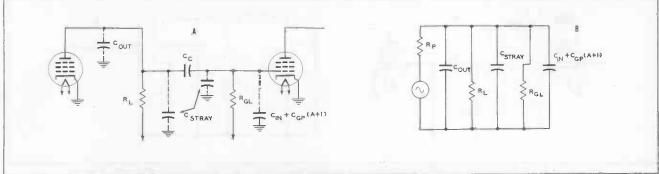


Figure 4-2. (A) An uncompensated Amplifier. (B) Equivalent Circuit of 4-2A.



Figure 4-3. Effect of Varying the Plate Load on Gain and Bandwidth.

with the plate load, the gain of the stage can be held up at the high-frequency end. The insertion of a peaking coil in series with the plate load resistor accomplishes this. Circuitry of this type is known as shunt peaking.

In circuit design, the value of the plate load is made equal to the reactance of the shunt capacity at the upper frequency limit. A peaking coil is selected whose inductive reactance is equal to one-half the value of the load resistor. Under these conditions the load impedance at the upper frequency limit is equal to the resistive value of the plate load resistor. At the lower frequencies, the capacitive reactance of the shunt capacity is of so high a value that it can be disregarded. Likewise the inductive reactance of the peaking coil is so low that it too can be disregarded. Thus it can be seen that the load at the lower frequencies is purely resistive. If the load impedance at the upper limit is equal to the plate load, the response of the amplifier will be essentially flat up to the desired upper limit. Figure 4-4A shows a video amplifier employing shunt peaking for high frequency compensation.

Let us assume that in the case of the circuit shown in Figure 4-4A a 6AU6 is to be used and the response is to be flat up to 4 megacycles. The total shunt capacity in the circuit is 30 mmf., whose reactance at 4 megacycles is approximately 1300 ohms. This is the value of plate load resistor which would be selected for use in the circuit. The reactance of the shunt peaking coil at 4 megacycles should be 650 ohms. A coil having this reactance has an inductance of 26 micro-henrys. If these values of components were employed in this circuit, its response would be essentially flat up to 4 megacycles. The equivalent circuit is shown in Figure 4-4B.

It would seem that this would be an ideal amplifier and that no further compensation would be required. This type amplifier has one deficiency, however, in that it has very low gain. When a low value of plate load is used with a pentode tube, which has a high value of plate resistance, the gain of the stage is equal to the product of the load and the transconductance of the tube, or Gain = Gm x RI. The gain of this particular circuit then is approximately 5. The gain can be increased by either selecting a tube having a higher transconductance or by increasing the value of the plate load. In actual practice tubes having a high transconductance value are usually used which means that the only method of increasing the gain would be to increase the value of the plate load. Referring again to Figure 4-4A, it should be remembered that the values of L and R_L were dependent upon the shunt capacity in the circuit. By reducing the shunt capacity in the circuit, the values of both L and RI can be increased resulting in greater gain in the stage.

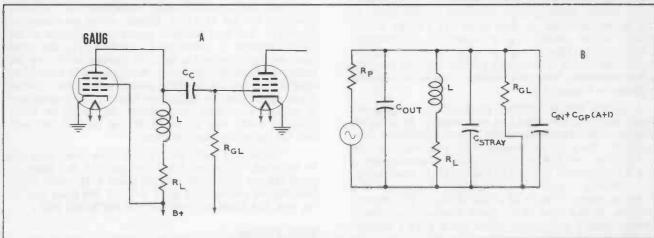


Figure 4-4. (A) Video Amplifier Employing Shunt Peaking. (B) Equivalent Circuit of 4-4A.

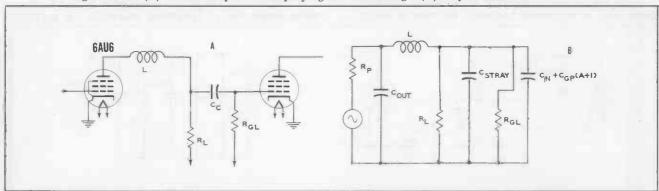


Figure 4-5. (A) Video Amplifier Employing Series Peaking. (B) Equivalent Circuit of 4-5A.

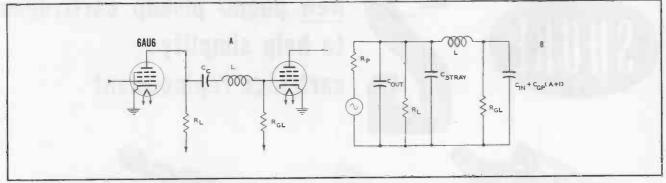


Figure 4-6. (A) Video Amplifier Employing Series Peaking with Peaking Coil in Grid of Following Stage. (B) Equivalent Circuit of Figure 4-6A.

Careful placement of wiring and components will be helpful in holding shunt capacity to a minimum.

Series Peaking

The addition of a peaking coil in series with the video amplifier output circuit and the input of the following stage, isolates the input and output capacities. Since this reduces the shunt capacity across the output of the stage, a larger value of plate load can be used, resulting in higher stage gain. This type of compensation, shown in Figure 4-5, is known as series peaking.

Seemingly, the presence of a peaking coil in series with the signal path would oppose passage of the signal. Such is not the case. If the coil selected produces resonance (with the stray capacitance) at the upper frequency limit, an actual increase in signal to the following stage is possible. Normally, through series peaking, the plate load can be increased by 50% over the value used with shunt peaking.

The ideal condition for a minimum of phase distortion is to have a ratio of 2 to 1 between C in and C out. This ratio may usually be obtained through careful placement of parts or by connecting the series coil so that the stray capacity can be added to C in or C out. The series peaking coil of Figure 4-5A is connected so that stray capacity in the circuit is in parallel with the input capacity of the following stage. The coil can be moved to the other side of the coupling capacitor (Figure 4-6A) placing most of the stray circuit capacity in parallel with the output capacity of the stage. (See Figure 4-6B). In some cases this is done to obtain proper ratio between C in and C out and

in rare instances a very small capacity is added to obtain the desired stray capacity.

Combination Shunt & Series Peaking

By combining the advantages of series and shunt peaking, the desired frequency response can be obtained with an even further increase in gain. In view of its greater gain, the combination circuit is the most widely used in commercial receivers.

A video amplifier using combination peaking is shown in Figure 4-7. Let's compare the gain which is possible with this circuit to that obtainable with shunt peaking alone, as in Figure 4-4A. The plate load resistor can be increased to 2900 ohms by selecting proper values of shunt and series peaking coils, resulting in 80% greater gain of the stage.

The shunt resistor, $R_{\rm S}$, placed across the series peaking coil, lowers the Q and prevents overpeaking, which might occur at the high frequency end. This resistor is normally 5 to 10 times the value of $R_{\rm L}$. $R_{\rm S}$ is usually the coil form for the series peaking unit. The shunt peaking coil often uses a resistor form, however; its value, normally 1 megohm or greater, has no electrical function in the circuit.

Video amplifier circuit values used for high frequency compensation are dependent on the amount of shunt capacity in the circuit. In servicing, care should be taken that wiring and components be undisturbed, or returned to their original positions. Where extra long leads are employed on parts to be replaced, provide the same lead length on the new unit, for proper positioning.

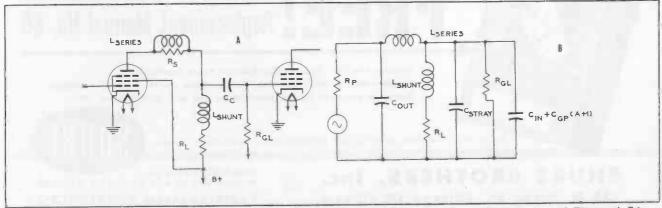


Figure 4-7. (A) Video Amplifier Employing Combination Peaking. (B) Equivalent Circuit of Figure 4-7A.





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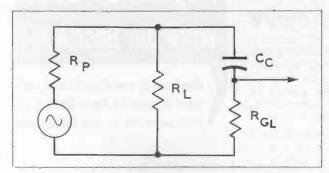


Figure 4-8. Equivalent Circuit of A Video Amplifier at Low Frequencies.

Low Frequency Compensation

In addition to good high frequency response in the video amplifier, good low frequency amplification is necessary to provide a faithful reproduction of the transmitted picture. Large areas are produced by signals of the lower frequency range and their loss may result in excessive shading or smearing of the picture.

The majority of video amplifiers are of the resistance-capacitance coupled type. The high capacitive reactance of the coupling capacitor at the lower frequencies, forms a voltage divider network. Figure 4-8 is the equivalent circuit of such an amplifier at low frequencies. The shunt capacity in the circuit is not shown, since its high reactance has negligible effect at the lower modulation frequencies. As the reactance of C_{C} increases, more signal develops across it and less signal appears across R_{gL} , resulting in loss of gain. Also, the low frequency signals across R_{gL} will have a leading phase angle resulting in displacement of low frequency components of the picture. The shorter the time constant of the coupling network, C_{C} and R_{gL} , the greater the loss and phase distortion in the circuit.

In receiver design, these component values are made as high as possible. There are limitations, however. If the resistance in the grid circuit is too high, there is a possibility of reverse grid current flow caused by gas content of the tube. Maximum grid resistor values vary with different tubes. Therefore, types having inherently low gas content are usually chosen as video amplifiers, so that the grid resistor value can be relatively high.

Large value coupling capacitors will also increase the grid circuit time constant. Larger capacitance values, however, have larger physical size, tending to increase shunt or stray capacity in the circuit, in turn affecting high frequency response. Maximum coupling capacitor value may also be limited by leakage current, which becomes greater as the capacitance increases. The use of hermetically sealed, molded paper capacitors holds this deficiency to a minimum and such units are used almost exclusively for this application in commercial receivers.

The average time constant of the coupling circuit is usually between .05 and .1 second, providing a minimum distortion at low frequencies. This value of time constant can be obtained without exceeding the grid resistor and coupling capacitor limitations, just discussed.

Other points where low frequency distortion may be introduced are in the screen and cathode circuits and across the impedance of the power supply. Figure 4-9 shows a video amplifier employing circuitry to minimize this distortion.

The deficiency easiest to correct is that of the impedance in the screen circuit. The low screen current of the tube allows a fairly high value of $R_{\rm Sg}$ and with bypassing of a 10 to 20 mfd. electrolytic capacitor, the screen circuit impedance is made very low.

Another method of correcting screen grid degeneration is that of connecting the screen directly to a B+ supply. Most receivers have several B+ lines and connection of the screen to a line of the correct potential will hold degeneration to a minimum because of the low impedance of the power supply.

Note that in Figure 4-9 a decoupling network consisting of R_d and C_d has been added in the plate circuit. One function of this network is to decouple the plate circuit from the power supply. Selection of proper values in this circuit can also compensate for distortion introduced in the cathode circuit and the coupling network.

The cathode resistor, R_k , is bypassed with C_k . Assume that R_k is 100 ohms and that - for the moment - C_k is removed. The unbypassed cathode resistor would cause degeneration at all frequencies and no compensation would be required. There would be considerable loss in the stage, however, making necessary the use of a bypass capacitor. If C_k were sufficiently large, very little degeneration would occur even at very low frequencies. However, there is a limit to the value of C_k , both from economic and space standpoints.

No matter how large the value of C_k , some degeneration will be present. Compensation can be made for this in the plate circuit decoupling network. Although R_d - C_d and R_k - C_k are similar networks, the plate current of the tube flows through them in opposite directions. Thus, the decoupling network can compensate for cathode circuit loss by making the time constant of both circuits equal.

100% correction is obtained when the decoupling resistor exceeds the cathode resistor by an amount equal to the gain of the stage; and the cathode bypass capacitor exceeds the decoupling capacitor by the same ratio. Assume that C_k has a value of 100 ohms to provide proper bias, and that the gain of the circuit shown in Figure 4-9 is 10. The decoupling resistor would then need to be 1000 ohms. Similarly, if C_d is

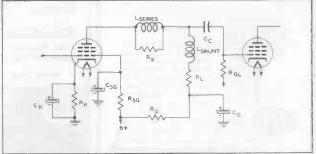


Figure 4-9. Video Amplifier Employing both High and Low Frequency Compensation.

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VIDEO AMPLIFIERS

10 mfd., then Ck will be 100 mfd. Under these conditions (equal network time constant) a change of 1/10 volt at the cathode will result in 1 volt additional signal being developed across the decoupling network. This additional signal makes the gain of the stage the same as it would have been had no degeneration occurred in the cathode circuit.

The phase angle of the decoupling network is such that it is corrective for phase shift if produced in the coupling network (Cc-Rgl). Therefore, selected values of Rd and Cd can compensate for distortion in both the cathode circuit and the coupling network.

The use of fixed bias eliminates the need for cathode resistors. However, most tubes require lower grid circuit resistance when fixed bias is applied. If the recommended value makes the time constant of the coupling circuit too low, cathode bias must be used.

Component values for both high and low frequency compensation are determined during receiver design. Servicing these circuits involves only proper replacement to restore them to original operation.

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FOAM. Down the grapevine comes word that the super-size direct-viewing picture tubes of the future will have thick walls made out of foam glass, lighter yet stronger than solid glass. Tap the tube with a hammer and you get just a powdery dent, with no crack, no implosion and no loss of vacuum. The face plate will still be transparent solid glass, and the neck will probably also be of solid glass to keep the deflection coils close to the electron beam.

COLORED SOLDER. Need for applying colored lacquer to each joint during inspection of high-quality communication and electronic equipment is said to be eliminated by use of an English-made solder that is available with four different colors of flux. When solder is used, the colored flux runs to edges of joint and remains as permanent easily-seen indicator that the joint has been soldered.



MIRRORS. On the wall at the back of a workbench, running the full width of the bench, a mirror speeds TV repairs by telling when the picture is "fairest of all" during back-of-set adjustment and alignment procedures. This is as good an excuse as any for doing that long-planned rebuilding of the bench. For consoles, a mirror on an empty wall where it can extend to within two feet of the floor is equally useful for the same reason. Wall-mounted mirrors are far safer from breakage than precariously propped framed mirrors borrowed from a hall or bedroom.

DOG DAYS. On these most trying days of the year, when customers and help both are touchy, when heat and humidity combine to get you down, and when there's everywhere a distinct lack of appreciation for what you're trying to do, think of the candle. It is of

no earthly practical use unless it is being consumed. A serviceman, too, is of most use to the world when putting into his work so much in the way of effort that he feels consumed too. A preacher expresses it thusly: "Let me be consumed, that I may be of use."

ANTENNA TAX. Reasoning that a rooftop antenna was a sign of affluence as regards more than average personal property, a Ridgewood, N. J., tax assessor made an antenna survey of his town and boosted the personal property valuation \$200 for each home having a TV antenna. When the tax bills came out, immediate and vociferous protests of some 4,000 irate TV owners made the town a bit hot for the assessor and the village commissioners, and finally resulted in their rescinding the tax. Arguments against the tax were many and varied. Some claimed it unfair because it did not take into account the wide range in prices from the cheapest used 7-incher to the newest Scott limited-edition 24-incher or DuMont 30-incher in the several-thousand-dollar price class. Others claimed it unfair because it let neighbors get away scot-free who chose to spend their money for new refrigerators or suchlike instead of TV.

TV POWER BOOST. New FCC ruling permits TV stations to radiate up to 50 kw effective radiated power with heights up to 2,000 feet under certain conditions. Stations running transmitters at less than rated output can get FCC permission practically by return mail to run their full 50 kw. Purchase of higher-power transmitters is not intent of ruling because transmitter manufacture would conflict with military electronic production, but in many cases the permitted boost can be achieved by installing new transmitting antenna with higher gain and/or higher tower. Power boosts are temporary, however, and have no influence on final powers to be authorized at end of freeze.

BETTER TV MOVIES. Up to now, U. S. movies on TV have been inferior in technical quality to those telecast in England because British TV has 25 frames per second (close to movie's 24) whereas U. S. TV has 30 frames per second. New Bell Labs scanner described in July issue of ELECTRONICS, using two electronic servos to eliminate jitter and flicker, promises to give tremendous improvement in film quality by per mitting flying-spot scanning of 24-frame film at 60 fields per second. New scanner is still under development.

VANISHING AMERICANS. Almost unnoticed, one by one quite a few small TV manufacturers have been quietly closing up shop this year. Prospects are that more will vanish, now that the TV industry is well into its first seasonal slump. So far, though, none of the well-known brand-name manufacturers

♦ Please turn to page 5,3



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No. 28

Covering Folder Sets Nos. 1 thru 146

HOW TO USE THIS INDEX: To find the PHOTOFACT Folder you need, look for the name of the receiver in the alphabetical listing below. Then find the required model number under the receiver name. Opposite the model you will find the number of the Set in which it appears and the Folder number. For example, under ADMIRAL, Chassis 3A1, the reference is 2—24. The bold 2 identifies the PHOTOFACT Set number in which the Folder appears. The light face number, 24, identifies the individual Folder. It's easy to find the set you need.

IMPORTANT: The suffix letter "A" following the Set or Folder Number in the index listing below indicates a "Preliminary Data Folder." These Folders are designed to provide the service technician immediately with preliminary basic data on Television Receivers-pending their complete coverage in the standard, uniform PHOTOFACT Folder Set presentation.

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ADMIRAL-AIRLINE				
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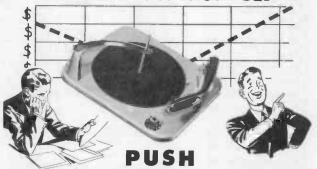
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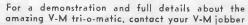
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Oscilloscope Modification for 120 Cycle Synchronization

by The Engineering Staff

While performing a visual alignment on AM or FM receivers, or the sound IF in TV receivers, it is often desirable to use a 120-cycle horizontal sweep in the scope. This makes it possible to obtain a "mirrored" image which aids in obtaining a symmetrical pattern. This is especially true in the case of discriminator or ratio detector alignment where an "X" pattern can be used instead of an "S" pattern. In order to synchronize the sweep, however, a 120-cycle signal is required. Many of the later model scopes provide this signal which can be obtained by setting the Sync Selector switch to the 120-cycle position and adjusting the sync amplitude control to the correct level. On earlier model scopes which were not designed to provide the 120-cycle signal, a simple modification can be made to provide this feature.

Any scope employing a full wave rectifier to supply the B+ voltage (not the high voltage for the cathode ray tube) can be modified. Across the input filter capacitor is a 120-cycle signal having a sawtooth waveform with a rather sharp rise on the leading edge. This is due to the peak current through the rectifier. By using a coupling capacitor to block the DC, this sawtooth signal may be coupled to the sync circuit to obtain synchronization at 120 cycles. Since this sync signal is not wanted at all times, provision for switching the signal should be made. On the earlier model scopes having a Sync Selector switch, three positions are usually employed. These provide "Internal," "60 cycle" and "External" sync. If such is the case, it is recommended that the "60-cycle" position be used for the 120-cycle signal.

To make the modification, remove the lead that provides the 60 cycle signal to the switch. This sig-

nal is usually obtained from a filament line or from the high voltage of the power transformer through a suitable dropping network. In case of the latter it is suggested that the components be left in the unit so that it could be more easily restored to its original wiring if desired. Connect a .1 mfd. or .25 mfd., 600V, capacitor from the positive terminal of the input filter capacitor to the terminal on the Sync Selector switch from which the lead mentioned above was removed. Thus when a i20-cycle sync signal is required, turn Sync Selector to the 60-cycle position and adjust the Sync Amplitude to synchronize the signal. If desired, the label on the front panel can be changed to read 120 cycles.

The 60-cycle sync signal which has been removed is required only occasionally. It can still be obtained by turning the Sync Selector to "Ext." and connecting a lead from the "Ext. Sync Jack" to a 6.3V AC filament line in the equipment under test.

Below, in Figure 1, is a partial schematic showing the modification on a Sylvania Model 132 scope. Since most all scopes use similar type sync circuits, it will serve as an example for making the modification on other scopes.

APPLICATION OF 120-CYCLE SWEEP

An explanation of how different response curves are obtained on the scope should aid in utilizing 120-cycle sweep for alignment purposes. Ordinarily a 60-cycle sine wave voltage or a 60-cycle saw-tooth voltage is used on the scope to deflect the beam in a horizontal direction. This voltage is obtained from

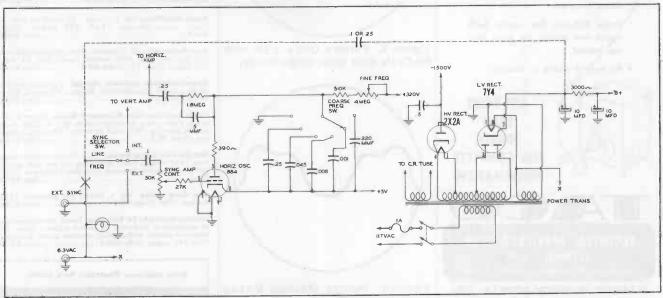
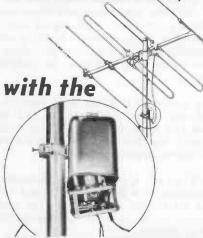


Figure 1. Partial Schematic of Sylvania Type Oscilloscope Showing Modification.



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OSCILLOSCOPE MODIFICATION (Continued from page 51)

the signal generator. As an illustration, if an FM receiver is aligned, a 60-cycle sine wave voltage may be used to deflect the scope beam horizontally. A sweep generator connected to the input of an IF amplifier is set so that the desired excursion frequency of 250 kc is obtained. The connection to the vertical input of the scope is made and the response curve observed. It will be seen that the waveform consists of two superimposed patterns as shown in Figure 2. The patterns may be made more distinct by turning the phasing control on the scope which changes their position in relation to each other. The reason for the two patterns is that the beam travels across the face of the tube in 1/120th of a second or 1/2 cycle, and the return trace requires an equal time. Since the forward and return traces occupy an equal amount of time they will both be visible. If the frequency of the signal applied to the IF amplifier changes from a minimum to a maximum during the forward trace, it will then go through a maximum to minimum range during the retrace period.

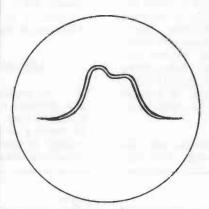


Figure 2. Pattern Obtained with 60-Cycle Sine Wave Scope Sweep.

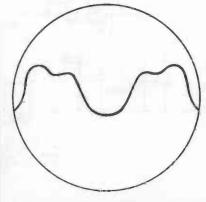


Figure 3. Pattern Obtained Using 60-Cycle Saw-tooth Scope Sweep.

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OSCILLOSCOPE MODIFICATION (Continued from page 52)

Two patterns will be observed on the scope if a 60-cycle sawtooth sweep voltage is applied to the horizontal deflection plates. These waveforms are shown in Figure 3. Note that the second response curve is reversed. The first waveform represents a time of 1/120th of a second and is the result of the sweep generator frequency changing from minimum to maximum. The second waveform occurs during the next 1/120th of a second, while the sweep frequency is changing from maximum to minimum.

Application of 120-cycle saw-tooth voltage to the horizontal deflection plates will also result in two patterns on the scope. These patterns, however, will be superimposed or mirrored as in Figure 4. The first response curve occurs in one cycle or in 1/120th of a second and the sweep frequency is changing from a minimum to a maximum. The beam retraces rapidly and begins another forward trace. The sweep frequency now goes back from maximum to minimum during this forward trace of the beam, which causes a reversed pattern.

This is the point where the 120-cycle sync signal is utilized to hold the saw-tooth oscillator in the scope exactly synchronized with twice the line frequency. If properly synchronized and phased with the output of the sweep frequency signal generator, it will result in a stationary pattern on the oscilloscope.

The use of a marker signal in establishing the correct setting of the sweep signal generator is vitally important. The center frequency of the sweep generator is roughly determined in a preliminary adjustment which results in two patterns appearing on the scope. The marker signal establishes the exact center frequency required and this is evidenced as a pip on each of the two patterns. An incorrectly aligned tuned circuit under test with the sweep generator set slightly off the center frequency will exhibit two patterns as shown in Figure 5.

It will be noted that the marker frequency pips are spaced slightly apart, indicating that the sweep generator is not at the correct center frequency. If the marker occurs at a time when the beam has trav-

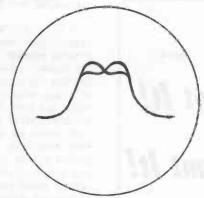


Figure 4. Pattern Obtained When 120-Cycle Saw-Tooth Is Used on

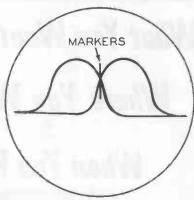


Figure 6. Correct Setting of Signal Generator.

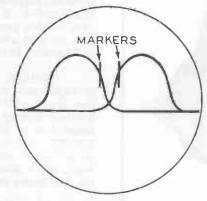
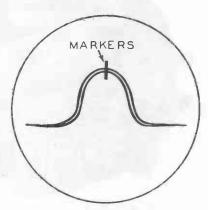


Figure 5. Incorrect Setting of Signal Figure 7. Symmetrical Pattern Generator.



After Alignment.

ersed halfway across the scope and the marker is again present when another trace is half completed, then the sweep generator is correctly set. On the other hand, any variation of the sweep generator from a correct center frequency setting will cause lateral displacement of the marker signal pips.

The sweep generator is now adjusted until the marker pips coincide or are in a straight line in a vertical position. The patterns will then look as shown in Figure 6. Keeping in mind that the pattern must be symmetrical, with the marker at the center, it is then necessary to adjust the tuned circuits under test until a pattern is obtained as in Figure 7.

A little practice in using 120-cycle horizontal sweep should result in faster and more accurate alignment jobs. Remember, however, that this method can be used only when a symmetrical pattern is desired. When aligning for unsymmetrical response curves, such as in video IF amplifier, the synchronized sweep voltage from the signal generator must be

"DOLLAR and SENSE" (Cont'd from page 31)

have disappeared. Examples of vanishing TV names are Mercury, Natalie Kalmus, Reeves Soundcraft, Rembrandt, True-Vue, U. S. Television, and Vidcraft.

DIME-STORE COLOR. A rash of transparent color films, some single-color and some even three bands of colors, are now cropping up as color TV imitations. Advantages claimed are that they make the picture any desired color, have no flicker, require no costly adapters or motors, and are easily attached

by home owner to any make of set, without need for serviceman. Same effect can be obtained by looking at any receiver through tinted glasses, or by letting a child paint the safety glass window of the set with water colors!

TAPED MUSIC. Pre-recorded reels of magnetic tape, each with half an hour of musical entertainment, are now available at music stores along with low-cost magnetic tape players that have no recording facilities. Of the 14 tape reels now in the

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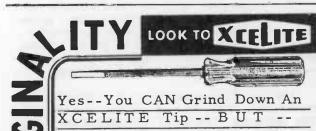
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"DOLLAR and SENSE" (Cont'd from page 53)

A-V Tape Library, all but one are instrumental or organ collections ideal for background music in homes, morale music for industry or theme music for flower shows and suchlike. The fourteenth, almost leading the others in popularity so far, is a collection of lively western square dances to which the user calls his own dances. Double-track reels must be reversed after 15 minutes to hear the other track, but cost about \$2 less than single-track reels because they have only half the footage of costly plastic tape. Retail prices range from \$8.50 for 7.5 inch-per-second single-track to \$4.75 for 3.75 inch-per-second double track reels. Though cheaper, the slower speed at present shows noticeable background noise when played on high-fidelity tape equipment; on some 3.75 inch-per-second playback equipment, however, the highs are suppressed so much that the noise is scarcely noticeable. If taped music clicks, servicemen will have another good source of income. Note: servicing data on tape recorders and players has been coming in Photofact Folders right from their beginning.

FIGURES. July 1st figure of N. B. C. Research is 13,088,600 TV sets in use. Best trade guess is that about a third of these have 12-1/2-inch and smaller picture tubes, based on numbers of picture tubes sold to date: 13,000 - 3-inch; 27,000 - 5-inch; 550,000 - 7-inch; 2,450,000 - 10-inch; 3,400,000 - 12-1/2-inch. Some of these tubes have of course gone west, while others are still on dealer shelves, hence the 33% figure is a guess.

AVERAGES. If the average TV set requires 4 service calls per year, each averaging about 1-1/2



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man hours of work, and a serviceman puts in 2,000 hours a year, the 13,000,000 sets in use today need an army of 39,000 TV servicemen to keep them running. Are there really that many?

TWIDDLING. Most pre-war TV sets have enough back-of-chassis adjustments with enough range to bring in the CBS color broadcasts in black and white by changing to 405 lines and 144 fields per second. What you get, though, is four miniature pictures instead of one. Similar adjustments can even be made on some makes of post-war receivers. It's just something to try once, though, as the pictures are too small for entertainment viewing. The experiment also gives a variety of weird, futuristic zig-zag patterns, along with practice in getting the controls back to their correct positions.

ADAPTER BURNS. An adapter used to bring in CBS color broadcasts usually gives a smaller picture than before, in the center of the screen. Concentrating the image on a sharply defined smaller area of the phosphor makes it brighter, hence continued operation may cause a discoloration pattern in the phosphor that will be noticeable and objectionable when a full-size black-and-white picture is viewed.

SUNSPOTS ON TV. When the complaint is growls and roars on TV sound, sometimes along with horizontal shimmers and grayish bars standing still or floating up and down the picture, generally occuring around twilight only, don't dash out on a service call because chances are it'll be a dry run. This summer there has been a lot of interstation TV interference due to tropospherics, related to sunspot

cycles. The effects are most noticeable in localities 10 to 25 miles from stations. Fortunately, the interference lasts for only about an hour per day and is expected to disappear at the end of hot weather.

DEAD ON ARRIVAL. According to the National TV Dealers Association, one-third of the TV sets produced were not in good working condition when delivered to dealers. This figure is bad for TV dealer overhead. The public, for ever clamoring for discounts, doesn't realize that just making a new set work takes a big hunk out of the dealer's margin of profit.

TRUCE. "If you aren't losing equipment in a war, you meet your goal a little earlier," says DPA-NPA administrator Manly Fleischmann in commenting on effect of Korean truce. This means military electronic production goals could be met with less and less effect on civilian products like TV sets and replacement parts if the guns stop firing all over the world, even though we still continue preparing for allout war.

TUGBOAT TV. In New York harbor a dumpy little tug equipped with complete TV service facilities makes the rounds of houseboats and other craft to fix their TV sets. On land, similar shops on wheels are bringing service to the home-owner's door in more and more localities. Still another twist, all aimed at eliminating the cost of transporting sets back and forth from user to shop, is Philadelphia TV service dealer Mort Farr's new cash-and-carry shop where owners drop off sets on the way to work in the morning. Most are ready to be picked up the same evening.

"SHOP TALK" (Continued from page 4)

Removal of a tube in either one of the sweep systems will only affect that particular section.

Additional facts which can be useful to you in circuit tracing are the following:

- 1. The horizontal oscillator, horizontal output, damper, and high-voltage rectifier stages are frequently grouped together in a cage at the left-rear side of the chassis.
- 2. The vertical sweep oscillator and vertical output amplifier can usually be found by looking for the large vertical output transformer.
- 3. Another quick way to locate the vertical or horizontal systems is to first locate their respective hold controls and then trace the wires back to the system.
- 4. Most receivers employ the flyback method of generating high voltage. In such sets, removal of any tube in the horizontal system (from the oscillator on) will remove the high voltage. For those sets which use an RF oscillator to obtain high voltage, removal of any tube in the horizontal sweep system will cause the picture to collapse to a vertical line. The high-voltage will be unaffected.

INTERCARRIER RECEIVERS

The same method of tracing your way through a television set is as applicable to Intercarrier sets as it is with conventional receivers. Suppose you were

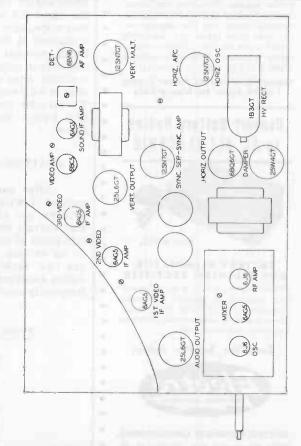


Fig. 2. Tube Layout Diagram of a Tele-Tone Intercarrier Type Receiver.



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'SHOP TALK' (Continued)

given a set to repair and you had no idea what type of television set it was. Your first step would be to trace through the RF section to the video IF system. See Figures 2, 3, and 4. In Intercarrier sets sound and video signal separation does not occur until some point beyond the video second detector. Consequently, pulling out any of the video IF tubes clear down to the video second detector will cause both picture and sound to be lost. From the second video detector there are only one or two video amplifier stages to the picture tube and it is a simple matter to determine where the signal separation occurs.

In this respect the beginner is often fooled by those Intercarrier receivers wherein the signal separation does not occur until after the last video amplifier. Naturally, in this instance, pulling out the final video amplifier tube will remove both picture and sound. In other words, removal of any tube in the video circuit will give the same indication.

The sound IF system in all Intercarrier receivers operates at the same 4.5 mc frequency. Furthermore, only the sound signal is contained in the sound system and hence removal of any of these tubes will affect only the sound. The remainder of the receiver is comparable in all respects to conventional TV circuits and will lend itself to the same sort of analysis given

ANALYSIS BY TUBE TYPES

After you have done a certain amount of work on television receivers, you will come to recognize that certain tubes are used in certain parts of the television receiver, or for certain functions. Following are the various stages of a television receiver and the tubes most frequently used in them.

Front End Stages

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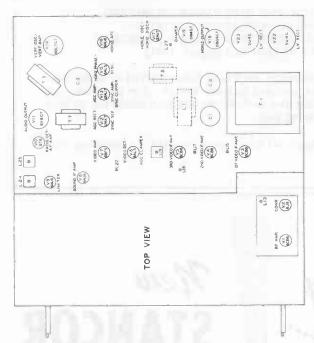


Fig. 3. Chassis Top View of a Sylvania Intercarrier Type Receiver.

6Y6

Front End Stages (Cont'd.)	Audio Output Amp.
•	6V6
6BC5	646
6BQ7	6AS5
12AV7	6AQ5
	25L6
Video IF Stages	6L6
6AU6	
6BA6	
	TT. 1 A .1161
6AG5	Video Amplifiers
6CB6	
6BC5	6AC7
	6 K 6
	6AU6
Sound IF Stages	6AH6
	6SN7
6AU6	7C5
6BA6	12AU7
	6AG7
Video Detector	
1N34	High Voltage
1N64	Rectifiers
6AL5	Recuirers
1N60	(a) Flyback
	Power Supply
	1X2A
Sound Disc &	1B3/8016
First Audio*	1X2
6T8	
6AL5	
6AT6*	
6BN6	(b) RF Type of
6AV6*	Power Supply
6S8	
6SQ7*	25L6
*These tubes are	35 L6
	CATE

used for audio only.

Low Voltage	Horizontal AFC
Rectifiers -	
Selenium Rectifiers	6AL5
	6AC7 & 6AL5
5U4	1/2 6SN7
5V4	1/2 12SN7
5Y3	
25Z6	
	Vertical Oscillator &
Horizontal Damper	Amplifier
6W4	6V6
5V4	12SN7
25Z6	12AU7
25W4	6SN7
6AS7	6AQ5
OTAB (
Horizontal Output	6J5
Amplifier	6SL7
Ampinier	6K6
6BG6	12BH7
6CD6	6BL7
	6C4
6BQ6	
50B5	
6AQ5	
19BG6	Sync Amplifiers &
6AV5-GT	Clippers
25BQ6	
6AU5	12SN7
	6SN7
Horizontal Oscillator	12AT7
	6BN6
6SN7	6SK7
6 K 6	6SH7
12AU7	12AU7
12SN7	6AU6

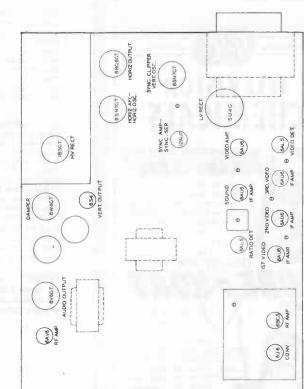


Fig. 4. Layout of an Intercarrier Type Receiver in which the Video and Sound IF Systems are Located Side by Side.



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PARTS LIST FOR IMPEDANCE MEASURING and NULL INDICATOR DEVICES -PHOTOFACT INDEX and TECHNICAL DIGEST No. 27 (July and August, 1951)

Through an oversight the Parts List referred to in the subject article was not included in Issue No. 27. For those who are interested in building the devices we are presenting the omitted Parts List on the facing page.

We want to thank all those who wrote in outlining this omission.

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PARTS LIST

	(Impedance Mea			(Additional Parts R Null Indicator			(Additional Parts Re Null Indicator Is Inc.	
Item	Description	Part No.		_		Item	Description	Part No.
V1	Current Load	Sylvania - 6V6GT or	Item	Description	Part No.	Item		
V2	Rectifier	equivalent Sylvania 6X5GT or	V3	1st AF Amplifier	Sylvania - 6AU6 or equivalent	C12	.05 mfd. 600V	(Aerovox - P688-05 (Centralab - D6-503
		equivalent	V4	2nd AF Amplifier &	Sylvania - 12AU7 or	1		(Cornell-Dub
C1	50 mfd. @ 150 V	(Aerovox - PRS 150/50 (Cornell-Dub BR5015A	V5	Detector Null Indicator	equivalent Sylvania - 6U5 or equivalent			PTE6S5 (Sprague - 6TM-S5
		(Sprague - TVA-1414				R7	500,000 ohm, 1/2	(Centralab - B-60
C2A* B	20 mfd.@ 450 V 20 mfd.@ 450 V	(Aerovox - AF444J (Cornell-Dub UP22245	C6	25 mfd, 25 V	(Aerovox - PRS25/25 (Cornell-Dub		watt Gain Control	(IRC - Q13-133 (Clarostat - AG-60-Z,
0	20 mfd. @ 450 V	(Sprague - TVL-3780			BR252A			FS-3
С	20 mm. & 450 v	(Sprague - 1 v L-3 too			(Sprague - TVA-1205	R8	2700 ohm, 1/2 watt	IRC BTS-2700 IRC - BTS-2.2 meg.
C3	40 mfd. @ 450 V	(Aerovox - AF8J	C7	.1 mfd. 600 V	(Aerovox - P688-1	R9	2.2 megohm, 1/2 watt	IRC - D13-2.2 meg.
		(Cornell-Dub UP4045			(Centralab - DF-104 (Cornell-Dub	R10	470,000 ohm, 1/2 watt	IRC - BTS-470K
		(Sprague - TVL-1725			PTE6P1	Ril	33,000 ohm, 1/2 watt	IRC - BTS-33K
C4	.1 mfd. @ 600 V	(Aerovox - P688-1 (Cornell-Dub			(Sprague - 6TM-P1	R12 R13	1200 ohm, 1/2 watt 470,000 ohm,	IRC - BTS-1200 IRC - BTS-470K
		PTE6P1	C8	.01 mfd. 600 V	(Aerovox - P688-01	1,110	1/2 watt	
		(Sprague - 6TM-P1			(Centralab - D6-103	R14	68,000 ohm, 1/2 watt	IRC - BTS-68K
					(Cornell-Dub	R15	1 megohm, 1/2 watt	IRC - BTS-1 meg.
C5	.25 mfd. @ 600 V	(Aerovox - 684-25			PTE6S1	T2	Interstager Trans-	(Chicago - IN-14
		(Cornell-Dub GT6P25			(Erie - GP2-333-103		former	(Merit - A-2914
		(Sprague - 6TM-P25			(Sprague - 6TM-S1			(Stancor - A-53-C
		(Sprague - OTM-P25	C9	.1 mfd. 600 V	(Aerovox - P688-1		4.040.1	
R1	25,000 ohm,	(Centralab - B-26-S	Co	.1 mid. 000 v	(Centralab - DF-104			interstager transforme nce value which will re
	1/2 watt Bias Control with switch	(IRC - Q11-120, 76-1 (Clarostat - AG-40-S, FS-3, SWB			(Cornell-Dub PTE6P1 (Sprague - 6TM -P1		ate secondary of T2 at	
R2	25 ohm, 3 watt	(Centralab - V-111	1		(Sprague - OTM -FT			
112	Low Range Control	(Clarostat - 58-25	C10#	.002 mfd. 600V	(Aerovox - P688-002 (Centralab - D6-202			
R ³	25,000 ohm, 4 watt High Range	Clarostat - 58-25K			(Cornell-Dub PTE6D2 (Erie - GP2-333-202	1		
R4	Control 750 ohm, 10 watt	IRC - 1-3/4 A-750			(Sprague - 6TM-D2			
R5	2000 ohm, 10 watt	IRC - 1-3/4 A-2000			(Shi agae - o i m-DS			
R6	25,000 ohm, 10 watt	IRC - 1-3/4 A-25K	C11	.1 mfd. 600 V	(Aerovox - P688-1			
T1	Power Transformer	(Merit - P-3148 (Stancor - PM-8404	011	. 2 1114. 000 1	(Centralab - DF-104 (Cornell-Dub			
Γĭ	Filter Choke (15 hy.)	(Stancor - C-1420 (Merit - C-3192			PTE6P1 (Sprague - 6TM-P1	100		
		(Chicago - R-23110						
* Item is n	of to be included in the	ctrolytic if null indicator unit.				,		

• • Continued from page 19 • •

horizontal deflection circuit must be modified to accomplish the faster retrace.

Adaptation of Monochrome Receivers

Several problems are encountered when trying to modify present monochrome receivers for reception of both color and monochrome transmissions in black and white. Each model or chassis type may present a somewhat different problem.

As discussed previously, 12, 24 and 84 cycle hum may be present when operating at the 144 cycle field rate. Precautions must be taken to minimize hum defects. Proper filtering of the RF, IF, and video stages as well as additional power supply filtering may be helpful. Shielding of the picture tube and yoke will also aid in preventing stray hum fields.

In the vertical sync circuit, two vertical integration circuits should be employed with switching provided to connect the proper integrator.

The vertical oscillator must be capable of operating at both 60 and 144 cycles. Two frequency determining circuits must be employed along with switching to connect the proper circuit. Since the vertical retrace time of the color system must be accomplished in 347 microseconds, or less, as compared to 833 microseconds in the monochrome system, two discharge circuits must also be employed and switched. The vertical hold control is normally a

front panel control, although in some receivers this control along with the size and linearity controls are on the rear panel. It will be necessary to employ two controls for each function, and switch each of these controls for proper setting of hold, height and linearity.

TABLE A. COMPARISON OF STANDARDS

	Monochrome	CBS Color
Standard	System	System
Field Rate	60	144
Horiz. Line Rate	15,750	29,160
Lines Per Frame	525	405
Lines Per Field	262.5	202.5
Color Frame Freq.		48
Color Picture Freq.		24
Frame Freq.	30	72
Field Time	16,667 u sec.	6,944 u sec.
Frame Time	33,334 u sec.	13,888 u sec.
One Horiz. Sweep	66.5 u sec.	34.3 u sec.
Horiz. Blanking	10.16 to	5.5 to
Interval	11.4 u sec.	6.2 u sec.
Horiz. Retrace	8.3 u sec.	4.5 u sec.
Interval		
Horiz. Sync Pulse Interval	5.08 u sec.	2.74 u sec.
Vert. Blanking	833 to	347 to
Interval	. 1330 u sec.	555 u sec.
Vert. Sync Pulse Interval	27.3 u sec.	14.75 u sec.
Equalizing Pulse Interval	2.54 u sec.	1.37 u sec.
Geometric Resolution	200,000	83,000

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If the same deflection coils are to be used for both positions, more power must be supplied at the 144 cycle position to maintain the same current in the deflection coils. Some receivers have sufficient power in reserve to accomplish vertical deflection at the 144 cycle position. It may be necessary to add another tube or install a larger tube in receivers where the vertical output stage is already working at maximum capacity.

The horizontal oscillator must be capable of operating at both frequencies, 15,750 and 29,160 cycles per second. The wide variation in these two frequencies makes it advisable to employ separate components for each of the adjustments in the horizontal deflection system. Switching must be provided to connect the proper component in the circuit. The horizontal hold, lock-in adjustment, stabilizing circuit adjustment, discharge capacitor, width, linearity, and

drive across the grid of the output tube, are typical of the changes that must be made in the horizontal deflection circuit.

The horizontal deflection and high voltage circuits are the most critical. Additional power is required in the deflection circuit to maintain proper width for 29,160 cycle operation. This requires the addition of another horizontal output tube in receivers which are already working at maximum output. The horizontal retrace time of 4.5 microseconds required for 29,160 cycle operation is difficult to obtain with most existing horizontal output transformers. A new transformer designed for operation at both frequencies may be required.

It should be born in mind that considerable experimentation may be required to satisfactorily adapt an existing set for CBS color reception, since peculiarities in design may cause operating differences.

♦ Continued from page 24

output transformer with a Stancor A-8129 transformer, shown in Figure 8. The original transformer was removed from the HV cage by unsoldering the leads and taking out the four machine screws securing it to the cage. The Stancor A-8129 transformer was then mounted in the same position, with the four machine screws, and wired into the circuit as shown in Figure 9. Note that the original width coil and .05 mfd. capacitor are used in the converted circuit. Other than for these last mentioned differences, the conversion using this transformer was completed in the same manner as given in the complete description of the conversion employing the Merit HVO-7 transformer.

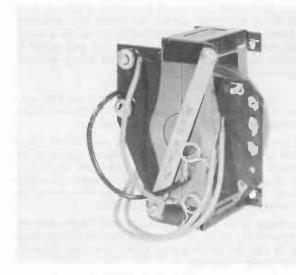


Figure 8. Stancor A-8129 Transformer.

PARTS LIST

Item	Description	
1	Horizontal Output Transformer	Merit HVO-7 Stancor A-8129
1	Deflection Yoke	Merit MD-70-F
1	Width Coil	Merit MWC-1
	(Not used when hori transformer A-8129	
1	39 Ohm, 1 watt resistor	IRC BW1-39

1	390 Ohm,	
	1/2 watt resistor	IRC BTS-390
2	560 Ohm,	
	1/2 watt resistor	IRC BTS-560
1	1000 Ohm,	
	1/2 watt resistor	IRC BTS-1000
1	3300 Ohm,	
	1/2 watt resistor	IRC BTS-3300
1	470K Ohm,	
	1/2 watt resistor	IRC BTS-470K
1	.004 mfd.,	
	600 volt capacitor	(Aerovox P688-004
		(CorDub. PTE 6D4
		(Sprague 6TM-D4
1	.5 mfd.,	
	600 volt capacitor	(Aerovox P684-5
		(CorDub. GT6P5
		(Sprague TC-5
1	Type 6BL7GT Tube	Sylvania 6BL7
1	Type 20CP4A Tube	Sylvania or
		Thomas 20C P4A
1	Single Magnet	
	Ion Trap	
1	High Voltage Lead	

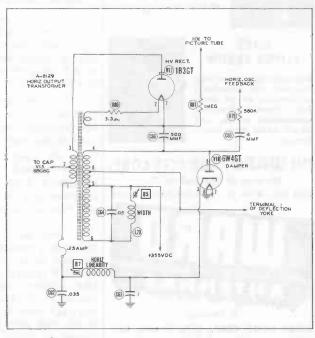


Figure 9. Schematic After Conversion. (Type A-8129)



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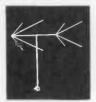
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+ More or Less -

The subject of television interference is receiving an increasing amount of attention, not only from the standpoint of editorial treatment but from the listening and viewing public as well. The importance of the subject will continue to increase as new VHF television markets open up and also as the new services in UHF regions are inaugurated.

There are many different kinds of television interference, ranging from appliance sources to those originating in other television and radio transmissions. There isn't any cure-all for the problem. Each case of interference must be identified and analyzed, and individual protective, or corrective, measures applied.

Following are several examples of television interference to illustrate the differing nature of such sources:

(a) The central Indiana area receives television service from WFBM-TV of Indianapolis, operating on Channel 6 (82-88 mc). Columbus, Indiana, approximately 35 miles distant, could ordinarily expect satisfactory reception on Channel 6, but it happens that Columbus has an excellent FM Station - WCSI, with a concentra ad audience in the Columbus area as well as in the surrounding territory. Since a large number of the receivers in the Columbus area operate with a low-side oscillator, and since the station frequency is 93.7 mc, it follows that the local oscillator frequency of such receivers is 93.7 mc minus the IF frequency of 10.7 mc, or 83 mc.

Any of these receivers not properly equipped to suppress local oscillator radiation puts out a signal right in the video carrier of Channel 6. This isn't just a theoretical case. A large number of these sets have radiation to such extent that they ruin television reception within an area of two or three blocks from their location. As far as effect is concerned, it doesn't matter whether these radiations occur directly from the antenna of the receivers or through the power lines, or both; but any effort to eliminate them must identify the means of radiation and apply suitable corrective measures to suppress them.

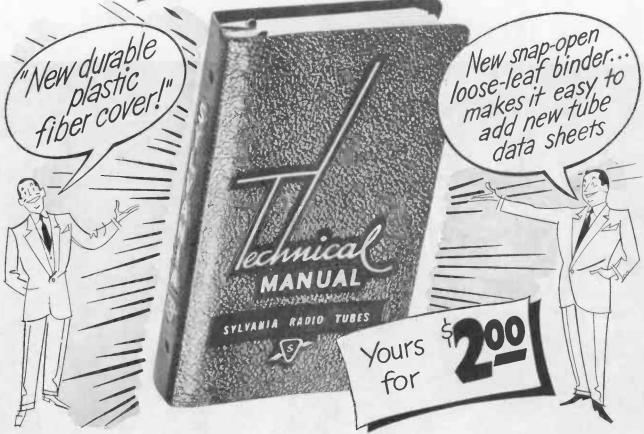
An interesting twist here is that some of the television receiver manufacturers attempting to merchandise receivers in this area also manufactured the very FM receivers which are causing the trouble.

- (b) We have heard of several instances, concerning apartment house TV reception in Metropolitan areas, where two transmissions in the same band have caused considerable difficulty. It seems that TV receivers having inadequate radiation suppression characteristics, tuned to Channels 2 or 7, will set up sufficiently strong radiation to interfere with reception of Channels 5 or 11, respectively, on nearby television sets.
- (c) We have also received notes on several instances where the television receiver itself is apparently at fault. It seems that perfectly legal and licensed transmissions in the 20 mc regions are coming directly through because of inadequate tuner rejection.
- (d) Last but not least, have you ever tried to listen to a radio receiver located in a room adjacent to an operating TV set? The horizontal oscillator of the television receiver frequently has sufficient radiation that harmonics of its 15,750 kc frequency will produce a very annoying whistle and buzz in the radio receiver.

And, as if we haven't had enough radiation problems existing up to this time, consider those which can conceivably occur when we put converters on present-day VHF television receivers to enable them to pick up UHF transmissions. You can cover a rather large sheet of paper with the possibilities of sum-and-difference frequency beats possible in such systems. It certainly will do the service technician no harm to become familiar with the problems encountered in television interference elimination. Not only is there a wide field now - - - it will be even wider in the future.

J. R. R.

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Here are just a few of the New Tube Types added to the 1951 Manual

OA3	6AS6	6BG7	25W4
IN60	6AX6	12AU7	1274
5AX4	6BA5	12BN6	5642
6AB4	6BF7	19BG6	5692
6AJ5	6BQ7	25AU5	5719

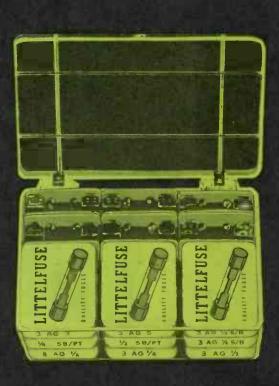


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