

TEST INSTRUMENT BULLETIN



Our 27th Year

Greenwood, Mississippi, U.S.A.

First Quarter 1954

PARTS & PILLS

Public Willing To Pay For Professional Service

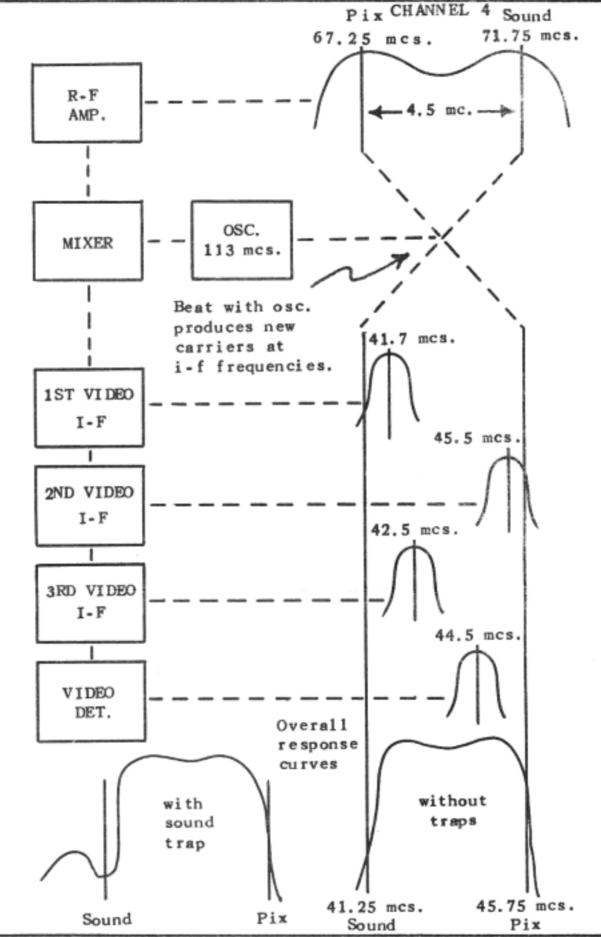
Not too many years ago it was quite commonplace for the small town doctor to have his office over, or in the back of, a drug store. Usually, he owned the store or got a commission on his prescriptions. The patient was sold a few doses of a prescription, the price of which usually amounted to more than the doctor's fee. Doctors were not as good businessmen then as they are In fact, you can today. come out of a doctor's office now and no pills may be on your "menu" at all.

It's Different Now

There is a reason for all this --- the physician of today invests in more test instruments such as the X-ray, cardiograph and flouroscope. This equipment is a necessary investment to better serve patients. Physicians now charge the patient for using this equipment --- the knowhow required to evaluate the results. They have proved that people are more willing to pay for what it takes to locate the real trouble than to try this remedy and that remedy and then still wonder if the trouble is corrected.

You're The "Doc"

The case of the electronic the aid of modern test instruments, he finds the real trouble. It may require only the application of a soldering iron, or an alignment tool to correct the defect. cost the technician money. In time, public relations programs will educate the services by selling a heavy 1. Connect a -3 volt bias to the agc line. "prescription" of parts.



With programs being transmitted in color, alignment of technician is similar. With i-f stages in black and white sets is more important than ever. Most late model TV sets are of the intercarrier type. In these sets, the video i-f's pass both the sound and picture signals after they have been converted to i-f frequencies in the mixer. Therefore, these stages must have a 4.5 mc. bandpass. To accomplish this broad bandwidth, the transformers are stagger tuned or overcoupled and usually know that such a statute of Know-how and test instruments are shunted with a resistor.

The One Dimension Method

There are two basic methods for video i-f alignment public to this fact. It depending on the equipment available. One requires only a should not be necessary for signal generator and VTVM. The other requires a sweep genthe technician to camouflage erator, marker generator and an oscilloscope. A general fish interests might be the cost of his technical procedure using the first method is as follows:

(Continued on page 2, column 1)

LEGITIMATE?

Unethical Practices Not Necessarily Illegal

The thinking comes out in print every now and then that some electronic technicians are 'illegitimate' operators --- particularly those who replace parts which were not defective. This thinking is wrong under present state laws. His actions would be illegitimate only if he billed a customer for services or materials which he did not deliver. This would be considered fraud under the laws of most states.

Is Know-How An Asset?

The replacement of parts not defective runs the bill up, of course, and might be wrong under the code of ethics of a service association. However, if the technician doesn't belong to a recognized group, he can set his own rules. Therefore, one who replaces parts until the trouble is apparently corrected is just as legitimate as the qualified man who uses his training, experience and test instruments to locate the real trouble by rendering a professional service.

Not Ready Yet

From time to time, one reads items for or against placing the technician in a legitimate or illegitimate group by means of licensing. Legislators and businessmen law pertaining to the qualifications of an individual must be sponsored and administered by a responsible professional group. If trade groups are the sponsor, selinvolved prompting graft and the statute will serve no luseful purpose.

OWNERS SOUGHT

The factory service department would like to locate the owners of two instruments which have been sent to us for repairs. Since shipping the units to us, both owners have moved, leaving no forwarding address. One is a model 542 multimeter mailed from Albany, Ga. The other is a model 599-A tube and set tester mailed from Clarksburg, W. Va.

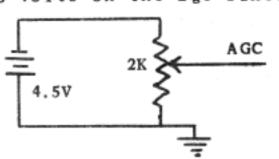
If you are the owner of one of these instruments, please notify the factory service department.

VIDEO I-F ALIGNMENT

(Cont'd from page 1, col. 2)

- 2. Connect a DC VTVM across the output of the video detector.
- 3. Lift the shield from the oscillator-mixer tube a sufficient amount to unground it. Connect the unmodulated signal generator to the shield and chassis.
- Set signal generator to the first video i-f frequency as indicated on the diagram. Adjust the first i-f slug for maximum output on VTVM. (Generator output should be reduced until meter peaks on about 2 volts.)
- Set generator to frequency of second video i-f and adjust it for maximum output. Follow this procedure on remaining i-f stages.
- If there is a trap in the video i-f strip, set the generator to the trap frequency and adjust trap for minimum output on VTVM.
- The overall response curve can be seen by making a graph of the voltage readings taken every half megacycle.

As no two manufacturers have exactly the same design, the special alignment instructions for each set should be carefully followed and the normal response curves noted. Most manufacturers recommend applying strip. a fixed bias of approximately -3 volts on the agc line.

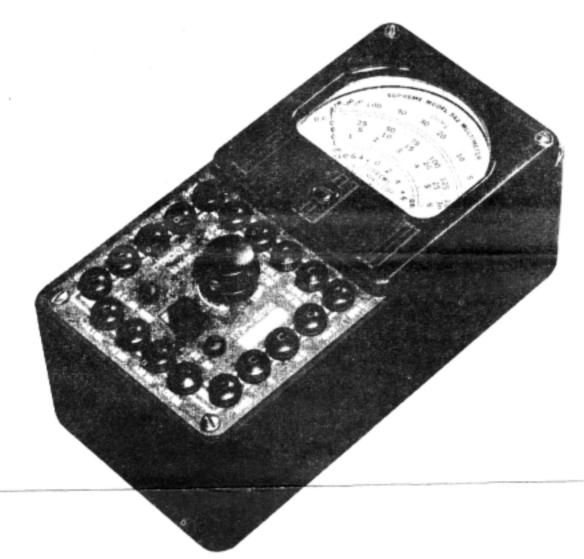


SUPREME TURE SETTING SERVICE. BOX 2532 GREENWOOD, MISSISSIFFI Enclosed in \$1.25. Please forward by sir wall latest edition of sull chart for my SUPERME Model ____ Tobe Tester. The number of my old chart is Be sure to give number on eld whert!

NEW SETTINGS FOR SUPREME TUBE TESTERS

For models 600 and 616. For models 589, 599 & 504-A, B. 5 A W 4 5 AW4 2 5 30 C 48 30 C 2 6 5 A W 4 2 5 30 C 5 AW4 68 6 BH5 (38) 19 C 4 7 358 6 BH 5 (38) 4 6 19 C 56 B 3 7 6 CF6 6 CF6 24 3 6 56 B 9 BW6 (12) 25 C 4 7 35 9 BW6 (12) 4 7 25 C 3 5 19 C 3 11 47 26 A 6 26A6 3 9 19 C 47

A REGULAR LITTLE POCKET LABORATORY



The Supreme Model 542 volt-ohm-milliammeter, il- tube. lustrated above, has become a real companion to radio and television technicians everywhere. This durable

A simple hookup for obtaining imately 6 x 3 x 2 inches in any specified bias up to size and has 4 ranges each

The illustration on page 1 shows the approximate front also shows how the overall response curve at the second detector is obtained on a typical stagger tuned i-f Model 542 (M) ---\$32.10

quality instrument is approx-4.5 volts is shown in Col. 1. of OHMS, DCV, ACV and MA. (Style M). Model 542 (B) --- \$27.70

Test Leads ---- \$1.40

₼ SUPREME, INCORPORATED GREENWOOD, MISSISSIPPI

REDER DRUG CO BLUE RAPIDS

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IPRESS ATTACKS

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Only Unethical Receive Publicity

The electronic service profession has been the target of the press many times during the past few years -- particularly since the advent of television. Such an attack 358 hurts the entire industry. especially when it makes independent technicians change their career and go into other fields regarded as "better society" by their friends and associates. Furthermore, it discourages a lot of responsible men from going into business for themselves as no one with any moral standards wants to be classed with what the press says are "crooks", "gyps" etc.

Slanted Views

In practically every attack from the press, the main theme seems to be "installation of parts not needed" or "charging for parts not installed". There have been few, if any, instances where a technician has been criticized for his service fee in locating a faulty part and labor for replacing it. No, we don't think the press will stick their neck out and reproach anyone for asking a reasonable return on his training, experience, know-how and investment in test instruments. All these are so necessary to finding the defective part, whether that part be a 25¢ resistor or a \$55.00 picture

According to the poll made by our last Bulletin, there are It is available in either less than 50 active service the style B case (illus- organizations, or else, some trated) or the metallic type official correspondents were end alignment curve. It case with leather handle not "On the Ball". If you did and meter protector shield not receive one of our gift pens, write the Service Engineer of Supreme___TODAY!

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