



SUPREME

TEST INSTRUMENT BULLETIN



Our 28th Year

Greenwood, Mississippi, U. S. A.

First Quarter 1955

MATCHING TALENT TO THE LOAD

QUALIFIED MEN IN DEMAND

In recent years, the doctor's office has become so efficiently run that he can now see many more patients during his regular office hours. He has several examining rooms fully equipped with the necessary instruments enabling him to make a prompt and more accurate diagnosis.

Efficient System

Before making his examination, someone else locates records of previous visits, checks the patient's temperature, blood pressure, pulse or runs other routine tests. This saves time and allows the doctor to concentrate his efforts primarily on diagnosing and prescribing.

Skilled Men Needed

Electronic technicians find they can accomplish more with less effort by using a similar efficient system. The increasing complexity of electronic devices has put a premium on the services of qualified technicians.

Assistant's Duties

In even the smallest service set-up, there must be at least one trained, experienced man who is equipped with necessary test instruments for effective troubleshooting. Practically every
(Continued on back)

TOPS FOR UTILITY



The rugged, compact Model 542 Multi-meter, illustrated above, has found a home in thousands of service shops, radio stations, utility companies, industrial firms, schools and "ham shacks" throughout the country.

TESTING SELENIUM RECTIFIERS ON SUPREME TUBE TESTERS

QUALITY INDICATED ON GOOD-?-BAD SCALE OF METER

Selenium rectifiers are widely used in both radio and television sets. These vary in size depending upon their current rating. Practically all types in common use, whether 65 ma or 450 ma are designed to operate on 115 volts and all have an internal voltage drop of around 5 volts.

Positive Proof Needed

Like other components, selenium rectifiers sometimes become defective. Usually, the internal resistance increases causing a higher voltage drop. This results in reduced DC voltage output. As there can be many other causes of low B supply voltage, the tech-
(Continued on back)

STILL THE BEST BUY

EVERY TECHNICIAN NEEDS ONE

The Model 542 is a high quality instrument of proven performance. It should not be confused with lower priced multi-meters often thought to be "bargains". The 200 μ a jewelled meter movement features that tough (practically unbreakable) pointer which has made Supreme meters famous.

Does Many Jobs

Service technicians have found it ideal to carry along on home service calls as well as to use on the test bench. There are four ranges each of AC and DC volts enabling voltages up to 1500 volts to be read. The four ohm ranges provide continuous coverage to 2 megohms. "Hams" and technicians servicing mobile transmitters find the four current ranges handy for checking plate currents up to 150 ma.

Available Now

The Model 542 is available in either a bakelite case at \$27.70 or in a metallic case with meter protector shield and leather handle (illustrated) at \$32.10. If your regular parts distributor doesn't stock the Model 542, send full remittance with your order to SUPREME, INC., GREENWOOD, MISS. and shipment will be made promptly.

NEW DATA SHEET FOR 600 & 616

A supplementary sheet containing new and revised tube setting data is available at no charge to owners of the Supreme Models 600 and 616 equipped with the No. 9600-529 chart. If you have not received your data sheet, let us know.

SUPREME TUBE SETTING SERVICE, BOX 9552
GREENWOOD, MISSISSIPPI

Enclosed is \$1.25. Please forward latest edition of roll chart for my SUPREME MODEL ____ Tube Tester. The number of my old chart is _____.

Name _____

Address _____

City _____ State _____

N.O.C.O.D.'S PLEASE!

"TESTER-MONIALS"

Excerpts from letters sent to us by satisfied Supreme users.

MISSOURI—"I think Supreme is the most rugged test equipment built and anyone can buy it with complete confidence."

CALIFORNIA—"In 1945 I ordered a Supreme tube and set tester and a signal generator from you for the station. The simplicity of operation, efficiency, and dependability of those two instruments convinced me that Supreme is the best."

ONTARIO—"Supreme instruments are certainly well named; mine have given reliable service over a period of fifteen years."

NEW YORK—"All our Supreme instruments are working fine. We haven't had any trouble with them since we purchased them."

MINNESOTA—"I have used your test equipment for over 20 years and have been well pleased with them."

FLORIDA—"After 6 years of constant use, this instrument is still functioning perfectly in every respect without benefit of any repairs (not even a fuse)."

CALIFORNIA—"We find that the Supreme instruments are superior in flexibility and ease of handling. Our motto is 'Supreme service from Supreme Instruments'."

NEW YORK—"When my friends wish to purchase a tube checker or other instruments, I heartily recommend your products."

WISCONSIN—"I am the proud owner of one of your Model 599 tube and set testers. I have used the instrument for the past seven years in my service work and wouldn't have any other."

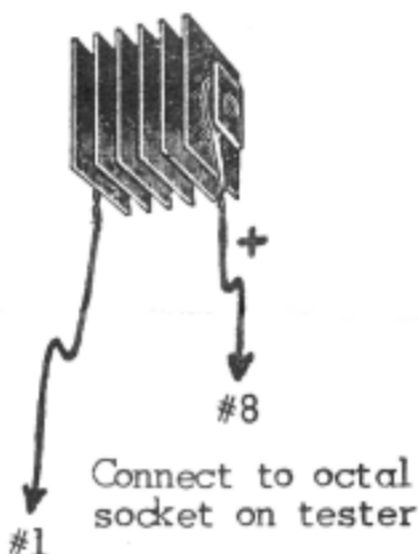
ILLINOIS—"I would also like to compliment you on your instruments. They are reasonably priced, substantially built and accurate. My tester has been used in connection with my 'ham' station for over eight years now and it has really proved its worth."

TESTING RECTIFIERS

(Continued from front)
 technician must find out if the rectifier is causing the trouble. Many TV sets use two or more rectifiers which makes substitution difficult.

Connecting Up

A selenium rectifier takes the place of a vacuum tube rectifier in a circuit and can be tested on your Supreme tube tester. To do this, disconnect one side of the rectifier and connect a pair of test leads from the two rectifier terminals to the No. 1 and No. 8 holes of the octal socket on the tester. Connect No. 1 to the unmarked terminal and No. 8 to the terminal marked "Positive".



Running The Test

The settings given below are used for testing all selenium rectifiers found in modern radios or TV sets:

For Models 600 and 616
 1 5 C 2 1 8

For Models 589, 599, 504-A, B
 2 1 15 C 8

The neon lamp should glow or flicker before the quality button is pushed if the rectifier is good. Push the quality switch and read the condition of the rectifier on the BAD-?-GOOD scale of the meter. If the pointer does not read in the GOOD area, the rectifier should be replaced.

From SUPREME, INCORPORATED
 GREENWOOD, MISSISSIPPI

REEDER DRUG CO
 BLUE RAPIDS KAN

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Perusing the PAGES

USEFUL INFORMATION RECENTLY PUBLISHED

Troubleshooting the TV Set Owner
 Page 34 --- February 1955
 TECHNICIAN

Editorial
 Page 4 --- January 1955
 RADIO-TV SERVICE DEALER

Vectors
 Page 10 --- December 1954
 PF REPORTER

Standard Charges For TV Service
 Page 10 --- December 1954
 SERVICE MANAGEMENT

MATCHING TALENT

(Continued from front)
 technician has one or more assistants with limited technical knowledge and experience to handle the routine, less complicated tasks. These include removing and installing sets, cleaning the chassis, looking up service data, replacing parts, keeping records etc. Often, this assistant has a separate work bench equipped with soldering iron, air hose, tools, ohmmeter and a small stock of commonly used parts. The technician locates the trouble in a set, then turns it over to his assistant for replacement of the defective component.

Expanding Requirements

In larger shops, employing several technicians, one man may specialize in alignment and final testing. As circuits become more complicated, the need for greater efficiency, more training and better test instruments becomes increasingly evident.

LATEST CHART

The No. 4965-544 is the latest edition of the roll chart for the Models 589, 589-A, 599, 599-A, 504-A and 504-B. This new chart contains settings for new tube types which are found in current radios and TV sets.

If you do not already have one of these new charts, order one today using the handy order form below.

NEW SETTINGS FOR SUPREME TESTERS

For Models 600 and 616.

2V2 (24678)	66	E	5	2	24678
3BA6	20	C	3	5	47
3CS6	56	B	3	5	24
6AR8	18	C	4	7	57
6AU4	23	C	7	7	38
6AV4 (dio)	15	A	3	7	147
6AV4 (dio)	15	A	3	7	467
6CA5 (25)	18	C	3	7	14
7AU7 (45)	25	C	9	5	345
7AU7	25	C	9	5	458
12CA5 (25)	18	C	3	9	14
50X6	22	C	1	13	28
50X6	22	C	1	13	78

Revised Settings

3LF4 (18)	60	B	7	2	18
6AL5 (dio)	54	B	3	7	45
6AL5 (dio)	54	B	3	7	14

For Models 589, 599 & 504-A, B.

2V2 (24678)	5	1	70	E	24678
3BA6	3	4	20	C	47
3CS6	3	4	56	B	24
6AR8	4	6	18	C	57
6AU4	7	6	23	C	38
6AV4 (dio)	3	6	15	A	147
6AV4 (dio)	3	6	15	A	467
6CA5 (25)	3	6	18	C	14
7AU7	4	6	25	C	35
7AU7	4	6	25	C	58
12CA5 (25)	3	8	18	C	14

Revised Settings

3LF4 (18)	7	1	60	B	18
6AL5 (dio)	3	6	54	B	18
6AL5 (dio)	3	6	54	B	14
6CL6 (38)	4	6	18	C	15
50X6	1	11	22	C	28
50X6	1	11	22	C	78

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