

1: Sunwa Multitester YX - YXTRE Equipment Unknown World

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Furthermore, the input impedance changes from a few ohms up to high megohm level with the measurement range cut over. These properties of a circuit tester demand the operator to use utmost care in the operation and maintenance of his instrument to ward himself off danger and damage to the meter. Especially when checking high power equipment, no operation mistake should be committed. Remember a circuit tester needs periodical inspection and calibration to maintain it in good condition. A tester known to be defective, or laid away unused for many months must not be used to measure a voltage above V. Be certain for a tester to undergo warrantable inspection at least once a year, when correct indication of the range must be ascertained and withstand voltage test not be omitted. But the added versatility of performing as a transistor analyzer distinguishes it from average meters. For the particular of its bounds of hidden possibility, you can examine for yourself the specification data along with the benefits and advantages the instrument offers. For all this, the YXTR is by no means a large-built equipment, but it is a lightweight and handy-sized device to be seated anywhere on your bench. As a matter of fact, it is suitable for carrying service. From beginners to professionals, you can enjoy a good command of it so as to get the best of the instrument on your original idea according to your own service design, contents General description Features Measurement ranges and performance I As a circuit tester 2 As a transistor tester. Operation I - as a circuit tester I Zero correction of indicator 2 Test lead connections 3 Selection of range 4 Measurement ranges and scale reading. I 0 dB scale Operation II - as a transistor tester. Maintenance I Choosing a proper range. The YXTR will entertain you with expanded vision of application. Optional use of the connector readily transfers the meter to a regular transistor tester to directly read hrr DC amplification factor of transistors for you to determine if they are suitable for circuit use. Few testers perform such unique double service. All measurements are controlled by a single knob. Into the bargain, the V DC and AC ranges lie adjacent each other on the selector switchboard to evade possible danger caused by misplaced range selection. In most testers are found these ranges adjoined at the ohm range, and there is a fair chance of the circuit resistors being burnt out rendering the instrument out of service. Excellent resolution factor of 0. The rubbers supplied may be fitted in the pits on the rear to tilt the meter to a convenient viewing angle on the bench. They also serve to prevent the meter to skid. In consideration of the portable use of the instrument, scratch-, heat- and dust-proof glass is used for the protection of the indicator instead of a soft metacrylic resin cover. Applied use of this extra terminal serves to check TV circuits for detecting AC signals with DC element present mixed isolated. It is impossible for a usual handy tester with a 1. S-volt battery built - in to check the linear continuity of semiconductors like LED whose forward voltage exceeds 1. In this respect, the 1. Measurement ranges r operation - as a circuit tester 1 Zero correction of indicator, Zero. Each of the 7 range notations 0. Voltages of commercial AC supply, circuits, AF signal level, etc. Each of the 4 range notations 50uA Each of the 4 range notations indicates the multiplication of the reading for that range, where k stands for I Scale mark Measurement Resistance Scale reading I o black XI ranged directly reads 0. For XI0, XIk and XI0k ranges, multiply readings the multiples. A black , and lines each reading V, V and V fs. For current, G A line reads For V, multiply the reading on 0- 10 line. Emitter age current of transistors and collector connected instead read f or 0-1 50uA XIk and I. OdB is established at 0. Basically, the difference is whether the meter is connected in parallel or in series with load. The latter connection accompanies the trouble of cutting open the circuit being checked. It flu 6 Voltage measurement and internal impedance. There are 2 instances of voltage measurement by parallel connection. In case of Fig. Power supply source has its own internal resistance, but it is so small as can be ignored for voltage measurement, and the loss of current consumption by a tester is practically nil the meter reading E p. Consequently, the YX 3 6! Therefore, when measuring such a circuit, where R is usually replaced with a tube or a transistor, the circuit impedance and Fig. Besides checking AF output voltage, this terminal is available to detect signals in TV servicing. For instance, on the AC 50V range is detected the presence of the horizontal signal on the horizontal amplifying circuit and, similarly, the presence of the input signal on the synchronous detaching and

synchronous amplifying circuits Resistance measurement and 00 adjustment. Resistance measurement is powered by internal batteries. They wear by use resulting in reading error of the measured value. For correct reading of resistance, the sensitivity of the indicator must be adjusted according to the voltage supplied by batteries. As shown in Fig. Reading 0 in order to place it exactly on 0 of the scale right. The pointer must Fig. It will be useful for trouble-shooting and discrimination of the type of the transistors used if you are acquainted in advance with the proper use of NpN and PNP transistors and the fact that Ge type shows low V_{be} and Si type high V_{be} . Use of HV probe for TV servicing. The DCV 0 scale is used reading 25k V at full scale. It must be remembered i[O. So must it be when testing the leakage of electrolytic capacitors. So is it for the X10k range where 9V battery P i s c o n s u m e d. T h e b a t t e r i e s needs immediate replacement. Uncover the meter by moving the rear bolt. Fig, 8 shows how to replace the worn-out batterie s. Some abnormal state may be recognized due to selfheating. It must be well noted for each ranse used when, fo r instan ce. The LI and LV scaies provided check current consumption and voltage load very effectively in t hes e mea su reme nts. For a coupled circuit of a definite impedance, power can be compared by simply expressing the voltage current ratio by dB. Most frequently, the input and output circuit impedances of audio amplifiers are not necessarily stand- XI x10 x1k x 10k 3V 3V 3V 12v ardize d fo r 60 0Q, and t he dB v alues m eas ur ed by a t ester are no thin g but v olt age v alues r ead in d B corre sp on din g to them. Howev er , when c om par in g AF v. This instrument uses its resistancerange for transistor tests, and so the pointer must be exactly-adjusted to zero bfgge. For a Si TR, this current is too small to read. Extra connector for h e fie? I l there flows I. To the other P or N terminal unemployed is connected the emitter of the TR. The range switch is set for X10. For a good TR, there will be a reading difference of big between 0 and of Fig. The 3-volt internal battery layout of the instrument effectively checks it on the XI range. While light is being emitted, the LI scale reads the current I_r . Therefore, true value is obtained by deducting from hrr the value corresponding to I_{co} read. For the 1k range, the scale reads 0-150uA. For increased accuracy, use the range nearest in value to the value being checked. For instance, a 1. Error will be bigger on the left half of the scale. For resistance measurement, reading is most accurate around in the middle of the scaie. When measuring an unknown value, start with the highest range. After the first reading, the switch can be reset to a lower range for a more accurate reading. For a Ge diode, it is usually 0.

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1 x Sunwa YXTRD Analog Multimeter 1 x Pair of Multimeter Probe(Non-Removable) 2 x AA/ LR6 Battery 1 x Instruction Manual 1 x Warranty Card Resistance Accuracy $\hat{A}\pm 5\%$ 2k (X1) 20k (X10) k (X) 2M (X1K) M (XK).

7: diagrama del multmetro SANWA YX TRD - Reparacion de Instrumentos de Medicaci3n - YoReparo

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8: [REQ] YXTRD Analog Multimeter Service Manual & Schem

Model: YXTRD ANALOG MULTIMETER Features [catalog B] [Page 41] \hat{A} ·A large and bright meter with a scale length of 80mm and its sensitivity of $44\hat{I}\frac{1}{4}A$ at full scale.

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