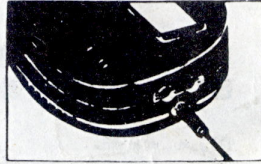
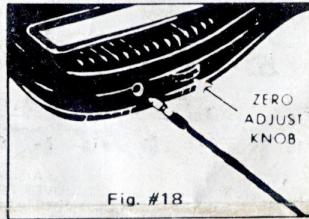


HOW TO USE THE DAYTON AS AN OHMMETER

Make certain no voltage is present in circuit before connecting ohmmeter to circuit. The ohmmeter is fused to help protect it against a misapplication of voltage but under certain conditions it is still possible to damage the meter and/or to obtain incorrect readings.



1. Insert either the red or black voltage lead into the LEFT VOLTAGE RECEPTACLE at bottom of DAYTON case. Fig. #17.



2. Plug the lead of the ohmmeter battery/fuse attachment into the right side of the DAYTON snap-around just below the ohmmeter Zero Adjust Knob. Seat plug to bottom for good connection. Fig. #18.

3. SET RANGE SELECTOR SO THAT THE 150 VOLT RED SCALE APPEARS IN WINDOW.

4. OHMMETER SCALE ADJUSTMENT WITH TEST LEADS OPEN — Pointer should line up with division marked "∞" on OHMS SCALE. Turn pointer zero adjust screw if necessary. Fig. #19.

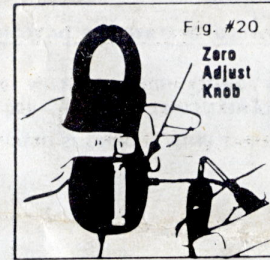


HOW TO USE THE DAYTON AS AN OHMMETER

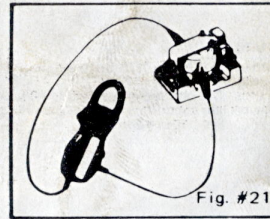
WITH TEST LEADS

SHORTED — Line up pointer with "0" mark on ohms scale by turning small black knob on right side of DAYTON. Fig. #20.

NOTE: If ohmmeter zero adjust knob does not line pointer up on zero mark, replace battery with a new one.



5. TO MEASURE RESISTANCE between any two points on a device, apply clip leads and read pointer on ohms scale.



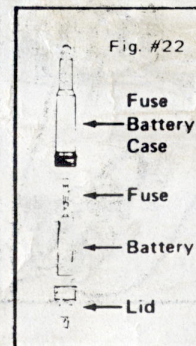
CAUTION — Make certain that circuit is disconnected from line before taking any resistance measurements. The battery case is fused to prevent damage to the meter if line voltage is used accidentally. Fig. #21.

HOW TO READ OHMMETER SCALE

The ohmmeter scale is located on the flat plate to the right of the window. The zero mark (beginning) is on top of the scale while the infinity mark "∞" ends the scale.

HOW TO INSTALL FUSE AND BATTERY

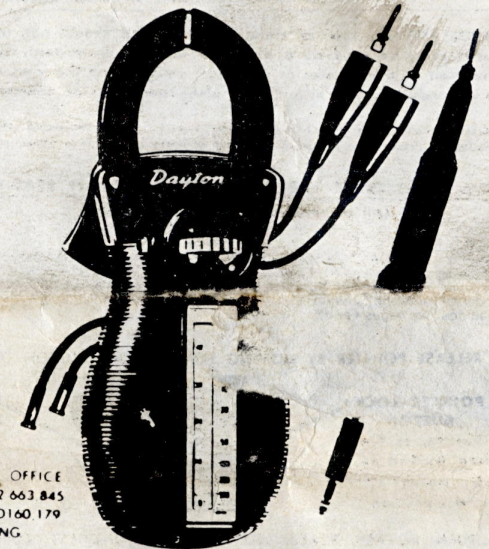
Unscrew base of ohmmeter battery/fuse attachment. Insert fuse (Use Littelfuse Type 8AG361, 1 Amp fast blow) and AAA battery (Cat. No. 912, not supplied) into probe end as shown in figure. Screw base on to probe.



OPERATING INSTRUCTIONS ROTARY SCALE SNAP-AROUND



VOLT - AMMETER - OHMMETER



REG. U.S. PAT. OFFICE
PATENT NOS. 2,663,845
D160,179
OTHERS PENDING

SPECIFICATIONS

Model	Ranges	
	Amps, AC	Volts, AC
4X221*	0-6/15/40/100/300	0-150/300/600
5X527*	0-15/40/100/300/1000†	0-150/300/750

*Ohmmeter Range: 25 ohms mid-scale.

†Continuous duty up to 600 amps. Intermittent duty (1½ minutes max.imum) above 600 amps.

NOTE: For purposes of explanation, these instructions are based on the ranges of the DAYTON model 4X221. The same instructions apply to the model 5X527 except for the difference in ranges.

DAYTON ELECTRIC MFG. CO.

Chicago, Ill. 60648

DAYTON LIMITED WARRANTY

Dayton Testing Equipment is warranted by Dayton Electric Mfg. Co. (Dayton) to the original user against defects in workmanship or materials under normal use (rental use excluded), for 90 days after date of purchase.

Any part which is determined to be defective in material or workmanship and returned to an authorized service location as Dayton designates, shipping costs prepaid, will be repaired or replaced at Dayton's option. For warranty claim procedures, see "Prompt Disposition" below. This warranty gives purchasers specific legal rights, and purchasers may also have other rights which vary from state to state.

WARRANTY DISCLAIMER: Dayton has made a diligent effort to illustrate and describe the products in this literature accurately, however, such illustrations and descriptions are for the sole purpose of identification, and do not express or imply a warranty that the products are merchantable, or fit for a particular purpose, or that the products will necessarily conform to the illustrations or descriptions.

Except as provided below, no warranty or affirmation of fact, express or implied, other than as stated in "LIMITED WARRANTY" above is made or authorized by Dayton, and Dayton's liability in all events is limited to the purchase price paid.

Certain aspects of disclaimers are not applicable to consumer products, e.g., (a) some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you; (b) also, some states do not allow limitations on how long an implied warranty lasts, consequently the above, limitation may not apply to you; and (c) by law, during the period of this Limited Warranty, any implied warranties of merchantability or fitness for a particular purpose applicable to consumer products purchased by consumers, may not be excluded or otherwise disclaimed.

PROMPT DISPOSITION: Dayton will make a good faith effort for prompt correction or other adjustment with respect to any product which proves to be defective within warranty. For any product believed to be defective within warranty, first write or call dealer from whom product was purchased. Dealer will give additional directions. If unable to resolve satisfactorily, write to Dayton at address below, giving dealer's name, address, date and number of dealer's invoice, and describing the nature of the defect. If product was damaged in transit to you, file claim with carrier.

DAYTON ELECTRIC MFG. CO., 5959 W. HOWARD ST., CHICAGO, ILLINOIS 60648

IMPORTANT: The jaws of clamp-on instruments should not, under any circumstances, be used as a device to hold the instrument. When using a clamp-on as a voltmeter or ohmmeter never clamp the jaws around or on to a conductor, box or anything else—conducting or non-conducting.

NOTE: Before using any electrical instrument or tester for actual testing, the unit should be checked on a known live line to make certain it is operating properly.

HOW TO OPERATE THE DAYTON FOR CURRENT READINGS

(All ampere ranges are printed black)

CAUTION

When using the DAYTON Snap-Around Volt/Ammeter/Ohmmeter make sure that the battery attachment case is REMOVED FROM THE INSTRUMENT before measuring volts or amperes. The ohmmeter is fused to help protect it against a misapplication of voltage but under certain conditions it is still possible to damage the meter and/or to obtain incorrect readings. See pages 4 and 5.

1. RELEASE POINTER BY MOVING POINTER LOCK BUTTON TO LEFT

POINTER LOCK BUTTON
(Pointer is free when button is at left) Always store in this position.



Fig. #1

2. TURN ROTARY SCALE SELECTOR UNTIL HIGHEST CURRENT RANGE APPEARS IN WINDOW—300 AMPS
3. PRESS TRIGGER BUTTON TO OPEN JAWS
4. ENCIRCLE ONE CONDUCTOR WITH THE TRANSFORMER JAWS



Fig. #3



Fig. #4

Release finger pressure on trigger to allow probe jaws to close about the conductor before attempting to read the meter.

HOW TO OPERATE THE DAYTON FOR CURRENT READINGS (cont'd)

5. IF POINTER INDICATES BELOW 100 AMPS SET ROTARY SCALE SELECTOR TO NEXT CURRENT RANGE — 100 AMP SCALE.
6. REPEAT UNTIL READING IS OBTAINED ON THE UPPER HALF OF SCALE.

HOW TO OPERATE THE DAYTON FOR VOLTAGE READINGS

(All voltage ranges are printed red)

CAUTION

When using the DAYTON Snap-Around Volt/Ammeter/Ohmmeter make sure that the battery attachment case is REMOVED FROM THE INSTRUMENT before measuring volts or amperes. The ohmmeter is fused to help protect it against a misapplication of voltage but under certain conditions it is still possible to damage the meter and/or to obtain incorrect readings. See pages 4 and 5.

1. INSERT SAFETY BAYONET TYPE VOLTAGE TEST LEADS INTO VOLTAGE RECEPTACLES AT BOTTOM OF 4X221. PUSH AGAINST RECEPTACLE SPRING AND TWIST TO LOCK IN PLACE.
2. TURN ROTARY SCALE SELECTOR UNTIL HIGHEST VOLTAGE RANGE — 600 VOLTS—APPEARS IN WINDOW.

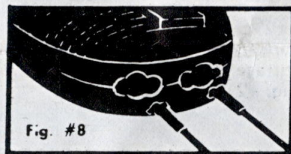


Fig. #8

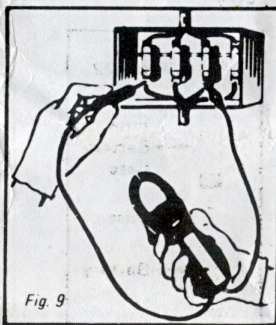


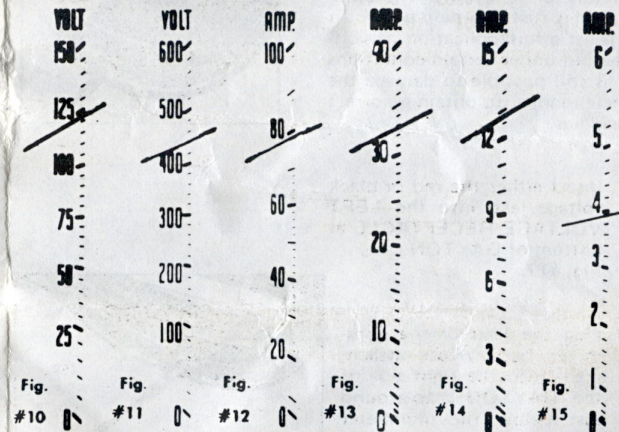
Fig. 9

3. CONNECT ONE ALLIGATOR CLIP TO ONE SIDE OF LINE. THEN WITH METER IN ONE HAND TOUCH THE OTHER SIDE OF THE LINE WITH THE ALLIGATOR CLIP. IF VOLTAGE DOES NOT EXCEED 600 VOLTS, ATTACH SECOND ALLIGATOR CLIP AND READ VOLTAGE ON RED SCALE MARKED 600 VOLTS.

4. IF VOLTAGE IS BELOW 150, ROTATE SCALE SELECTOR UNTIL THE 150 VOLT RANGE APPEARS IN WINDOW. READ ON THIS SCALE.

HOW TO READ THE SCALE

Let us assume the pointer is at the position indicated in the illustrations. The reading will be as follows, depending on the setting of the range selector—



POINTER	POINTER	POINTER	POINTER	POINTER	POINTER
READS 122.5	READS 440	READS	READS 32.5	READS 12.7	READS 3.9
VOLTS	VOLTS	78 AMPS	AMPS	AMPS	AMPS
Each sub-division between 100 & 150 is 5 volts	Each sub-division between 400 & 500 is 20 volts	Heavy mark division between 60 & 80 is 70 Amps. Each sub-division between 70 & 80 is 2 amps	Each sub-division between 30 & 40 is 1 amp.	Heavy mark above 12 is 13 amps. Each sub-division between 12 & 13 is 5 amp.	Each sub-division between 3 & 4 is 2 amp.

ZERO ADJUSTMENT

FOR GREATEST ACCURACY, THE POINTER SHOULD BE SET EXACTLY ON THE ZERO LINE. THIS IS DONE WITH ZERO ADJUST SCREW.

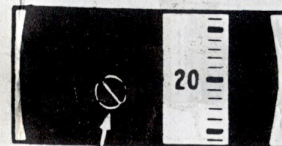


Fig. #16

If while turning the zero adjust screw, the pointer swings away from the zero line, and will not come to rest directly over it, it is possible that the scale window is statically charged. To neutralize—fog the window, just as you would in cleaning eye-glasses.