MODEL 10 TYPE 2
AND
MODEL 10-C TYPE 2
INSTRUCTIONS

AC CLAMP-ON AMMETER ADAPTER

These adapters allow measurement of AC current with a VOM. They are attached to the VOM with an extension lead. They may also be attached to the top of the 310 series VOMs directly as shown on Page 2.

SPECIFICATIONS

Ranges: 0 - 6, 12, 30, 60, 120, 300 AC Amperes

Accuracy: ±3% of Full Scale (Calibrated at 77°F or 25°C) with conductor centered in the jaws.

Frequency: Calibrated for 60 Hz.

VOM Range and Sensitivity:

Model 10: 3 AC Volts at 5,000 ohms/volt.

Model 10-C: 3 AC Volts at 15,000 ohms/volt.

MODEL 10 AND MODEL 10-C ADAPTER

AC CURRENT MEASUREMENTS

Using the adapter on top of Triplett Model 310 series VOMs —

1. Rotate the lever on the bottom of the adapter until it points straight out (See Figure 1).
2. Install the adapter on the top of the VOM. Rotate the lever back against the adapter.
3. Plug the test lead bar from the adapter into the VOM and COM jacks of the VOM. (Polarity of leads is not important).
4. Set the VOM switch to AC AMPS or 3 AC VOLTS.
5. Set the adapter switch to 300 AMPS.
6. Press the handle on the side of the adapter to open the jaws. Place the jaws around ONE conductor and release the handle (See Figure 2).
7. Adjust the adapter switch for maximum meter deflection without going off-scale.
8. Read AC Amperes on the AC AMPS or 3 AC VOLTS scale as directed below.

Adapter Range AC Amperes	Reading on 3 AC VOLTS Scale	Reading on AC AMPS Scale
6	0-3 (x 2)	0-6
12	0-3 (x 4)	0-12
30	0-3 (x 10)	0-30
60	0-3 (x 20)	0-6 (x 10)
120	0-3 (x 40)	0-12 (x 10)
300	0-3 (x 100)	0-30 (x 10)

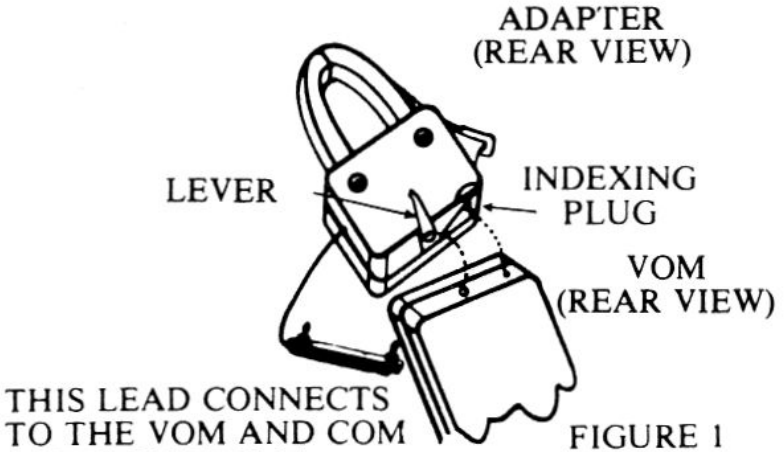


FIGURE 1

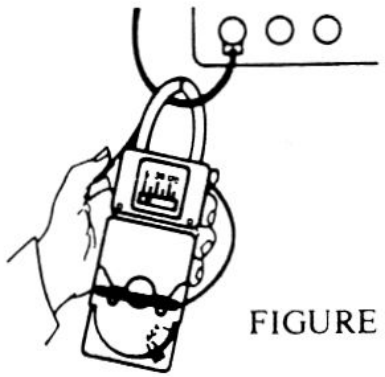


FIGURE 2

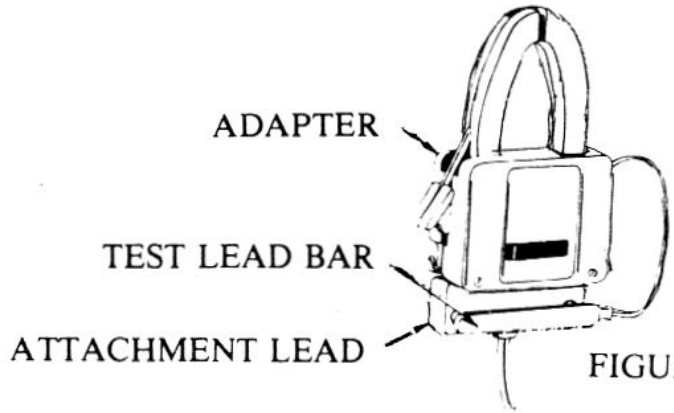


FIGURE 3

AC CURRENT MEASUREMENTS

Using the adapter with the attachment lead —

1. Rotate the lever on the bottom of the adapter until it points straight out (See Figure 1).
2. Install the adapter on the top of the attachment lead. Rotate the lever back against the adapter (See Figure 3).
3. Plug test lead bar into attachment lead (See Figure 3).
4. Plug attachment lead into VOM (+) and COM (−) jacks of VOM (polarity of leads is not important).
5. Set the VOM switch to AC AMPS or 3 AC VOLTS.
6. Set the adapter switch to 300 AMPS.
7. Press the handle on the side of the adapter to open the jaws. Place the jaws around ONE conductor and release the handle (See Figure 2).
8. Adjust the adapter switch for maximum meter deflection without going off-scale.
9. Read AC Amperes on the AC AMPS or 3 AC VOLTS scale as directed below.

Adapter Range AC Amperes	Reading on 3 AC VOLTS Scale	Reading on AC AMPS Scale
6	0-3 (x 2)	0-6
12	0-3 (x 4)	0-12
30	0-3 (x 10)	0-30
60	0-3 (x 20)	0-6 (x 10)
120	0-3 (x 40)	0-12 (x 10)
300	0-3 (x 100)	0-30 (x 10)

SAFETY FIRST

DO NOT ALLOW TEST LEAD BAR to hang loose. When the adapter is not in use, remove it from the VOM.

FOLLOW ALL SAFETY RULES, PRECAUTIONS, AND WARNINGS in the VOM instruction manual.

MODEL 10/MODEL 10-C USAGE CHART

VOM Model Number	Adapter Model Number	Attachment Lead Catalog Number
60 (All Types)	10	79-417
60-A (All Types)	10	79-417
60-NA Type 1	10-C	79-417
60-NA Type 2	10	79-417
310 (All Types)	10	79-416
310-C (All Types)	10-C	79-416
310-FET (All Types)	10	79-416
310-T (All Types)	10	79-416
615 (All Types)	10	79-415
630 Type 4	10	79-417
630 (Other Types)	10	79-415
630-A Type 4	10	79-417
630-A (Other Types)	10	79-415
630-APL (All Types)	10	79-415
630-APLK (All Types)	10	79-415
630-NA (All Types)	10	79-415
630-NS (All Types)	10-C	79-415
630-PL (All Types)	10	79-415
630-PLK (All Types)	10	79-415

OPERATING NOTES

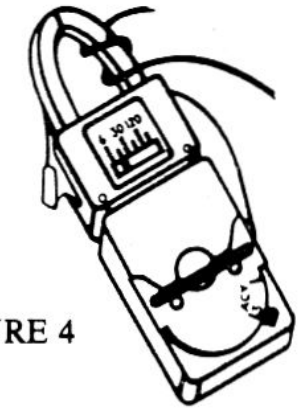


FIGURE 4

Do not place the jaws of the adapter around more than one wire. An incorrect reading will result.

When reading is below half scale on the 6 AC Ampere range, greater accuracy can be achieved by wrapping the conductor around the jaws twice (Figure 4). This would double the sensitivity of the adapter, and the actual current flowing would be half that indicated by the meter. Likewise, more turns can be added around the jaws of the adapter for increased sensitivity. The actual current in each case is the indicated current divided by the number of turns around the jaws.

Best accuracy is obtained by holding the single wire conductor in the center of the jaws.

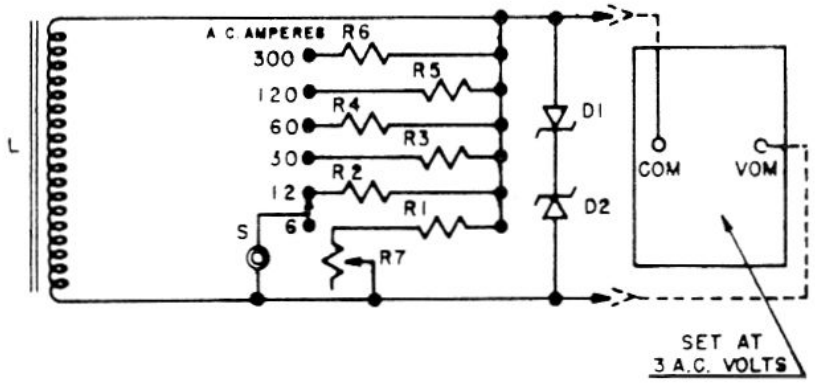
Do not try to change ranges by changing the switch on the VOM. The adapter is calibrated to work on the AC AMPS or 3 AC VOLTS ranges only.

MAINTENANCE

The jaw surfaces must be kept clean. If film appears, clean the jaw with a very fine grade of sandpaper.

Inspect test leads before use. Replace any worn, frayed or cracked test leads.

CIRCUIT DIAGRAM



REPLACEABLE PARTS LIST

Circuit Symbol	Description	Part Number Model 10	Part Number Model 10-C
	Case Ass'y., Back	10-2935	10-2935
	Case, Front	10-2937	10-2938
	Stud, Special 6-32	86-539	86-539
	Screw Nylon 6-32	24-499	24-499
S	Switch Ass'y., Slide	22-714	22-714
*	P.C. Board W/Components	87-482	87-482
* R1	Resistor, 2260 Ohms, ¼ W, 1%	15K-2261TB4	15K-2261TB4
* R2	Resistor, 1690 Ohms ¼ W, 1%	15K-1691TB4	15-K-1691TB4
* R3	Resistor, 450 Ohms ¼ W, 1%	15K-4500TB4	15K-4500TB4
* R4	Resistor, 203 Ohms ¼ W, 1%	15K-2030TB4	15K-2030TB4
* R5	Resistor, 96.3 Ohms ¼ W, 1%	15K-963FTB4	15K-963FTB4
* R6	Resistor, 38.0 Ohms ¼ W, 1%	15K-380FTB4	15K-380FTB4
* R7	Resistor, Variable, 5K Ohms	16-300	16-300
L	Coil Ass'y.	2542-118	2542-118
D1-D2	Diode, Zener, 12V	127-66	127-66
	Lead Ass'y., Test Bar	79-414	79-414
*	Clamp Ass'y., Repair	64-102	64-102

*If any of these are replaced, recalibration may be required.

REPAIR OR SERVICE

In the event repair or service is required, the Adapter may be sent to Triplett Corporation, Bluffton, Ohio 45817 or contact factory for nearest Service Station.

Please outline the nature of the difficulty. Triplett can supply more efficient service by your providing this information.

LIMITED WARRANTY

The Triplett Corporation warrants instruments and test equipment manufactured by it to be free from defective material or factory workmanship and agrees to repair or replace such products which, under normal use and service, disclose the defect to be the fault of our manufacturing, with no charge for parts and service. If we are unable to repair or replace the product, we will make a refund of the purchase price. Consult the Instruction Manual for instructions regarding

the proper use and servicing of instruments and test equipment. Our obligation under this warranty is limited to repairing, replacing or making refund on any instrument or test equipment which proves to be defective within one year from the date of original purchase.

The warranty does not apply to any of our products which have been repaired or altered by unauthorized persons in any way so as, in our sole judgment, to injure their stability or reliability, or which have been subject to misuse, abuse, misapplication, negligence or accident or which have had the serial numbers altered, defaced, or removed. Accessories, including batteries, not of our manufacture used with this product are not covered by this warranty.

To register a claim under the provisions of this warranty, return the instrument or test equipment to Triplett Corporation, Bluffton, Ohio 45817, transportation prepaid. Upon our inspection of the product, we will advise you as to the disposition of your claim.

ALL WARRANTIES IMPLIED BY LAW ARE HEREBY LIMITED TO A PERIOD OF ONE YEAR, AND THE PROVISIONS OF THE WARRANTY ARE EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES EXPRESSED OR IMPLIED.

The purchaser agrees to assume all liability for any damages and bodily injury which may result from the use or misuse of the product by the purchaser, his employees, or others, and the remedies provided for in this warranty are expressly in lieu of any other liability Triplett Corporation may have, including incidental or consequential damages.

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. No representative of Triplett Corporation or any other person is authorized to extend the liability of Triplett Corporation in connection with the sale of its products beyond the terms hereof.

Triplett Corporation reserves the right to discontinue models at any time, or change specifications, price or design, without notice and without incurring any obligation.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

TRIPLETT CORPORATION
Bluffton, Ohio 45817
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