OPERATION MANUAL

OT-0018

FREE-RUN STARTER TESTER



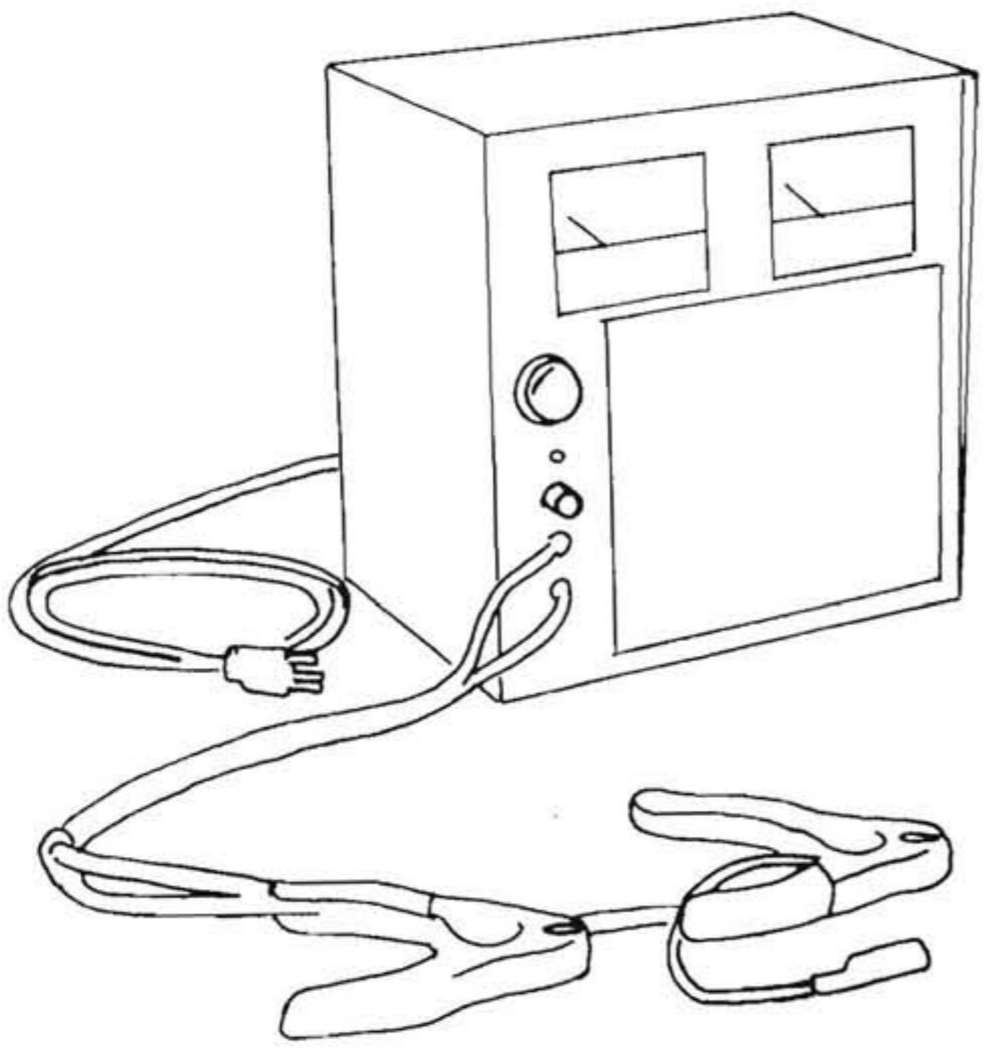
Electrical Rebuilder's ERA FOUNDED 2001 ASSOCIATION

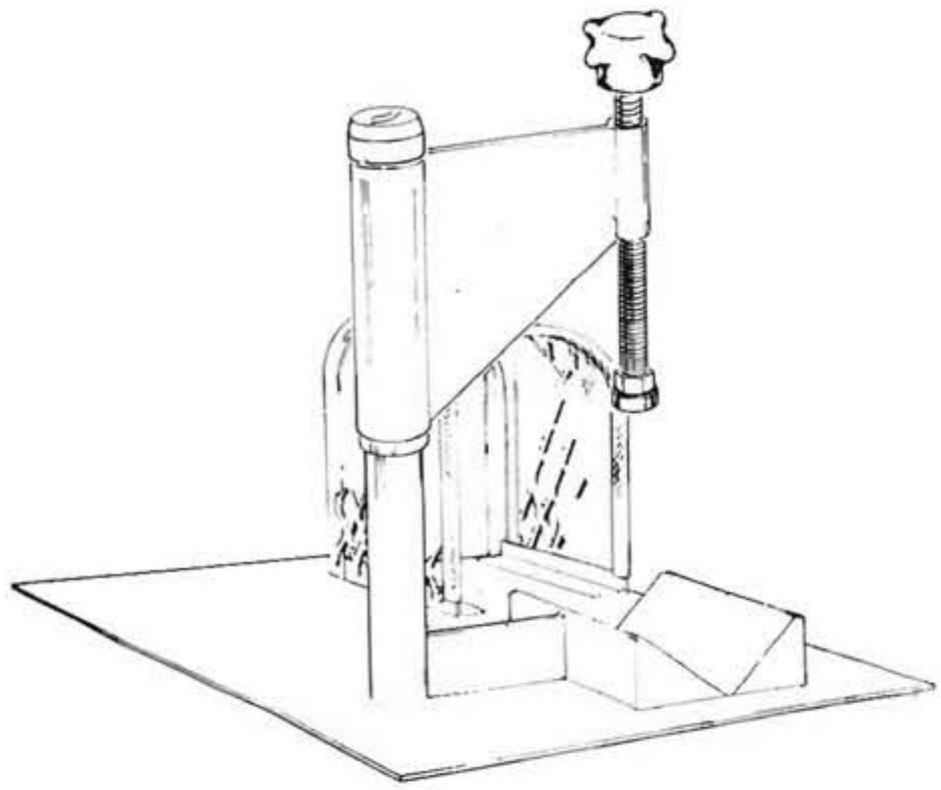
INTERNATIONAL PRODUCTS & MANUFACTURING, INC.
200 EAST DANIELS ROAD SUBSIDIARY OF WABASH, INC. PALATINE, ILLINOIS 60067

CHECK LIST

OPERATION MANUAL







IPM OT-0018 FREE-RUN STARTER TESTER
(with Mounting Base)



IPM WARRANTY

Electrical Rebuilder's ERA FOUNDED 2001 ASSOCIATION

IPM OT-0018 OPERATION INSTRUCTIONS

GENERAL DESCRIPTION

THE IPM OT-0018 Free Run Starter Tester will test all domestic and foreign starters for cars and light trucks. It's easy to use: Hook up the two cables, push the operate switch and observe the voltage and amperage readings. The test takes less than 10 seconds.

For maximum conservation of energy, the OT-0018 draws current only when the operate switch is depressed. Below the switch is a pilot light that glows when the DC power supply is on. The tester requires no battery.

A 20-amp fuse protects the DC power supply so that improper cable hook-up will not damage the tester.

OPERATION

PLUG THE POWER CORD into a three-lead grounded receptacle wired for 110 volts AC.

Mount the starter to be tested on the V-block, making sure the open area of the starter drive end is in the special protective cage. Tighten the screw clamp to prevent starter movement during the test.

ON A STARTER WITH A SOLENOID, connect the small red jumper to the solenoid post (normally marked "S"). Be sure the starter drive moves all the way forward in the drive housing as the solenoid is engaged.

ON A STARTER WITH NO SOLENOID, clamp the black cable to the starter housing or the V-block (Figure 1). Clamp the red cable to the field post or the lead coming out of the starter housing.

CAUTION: When the small red jumper lead is not being used, attach the clip end to the positive (red) clamp (Figure 2). This will prevent a direct short which could blow a fuse or damage the meter or the DC power supply.

Once proper hook-up has been made, press the operate switch (located on the left side of the front panel). As soon as the meters have stabilized (within 10 seconds) take the voltage and amperage readings.

CAUTION: Do not exceed 10 seconds per test. If during the course of any test the ammeter deflects full scale and remains there, stop the test to prevent current overload.

CHECKING THE OT-0018

THE TESTER SHOULD BE plugged into a live 110-volt AC circuit. Push the operate switch. The red pilot light should light and the voltmeter should read approximately 12 volts without a starter hook-up. In case of difficulty, refer to the trouble-shooting chart on the opposite page.

CAUTION: Do not short the power cables. Never press the operate switch while both cables are hooked together or touching the base plate or otherwise making electrical contact. This could result in a DC power supply failure not covered by the warranty.

Terminal Strip (on Transformer)

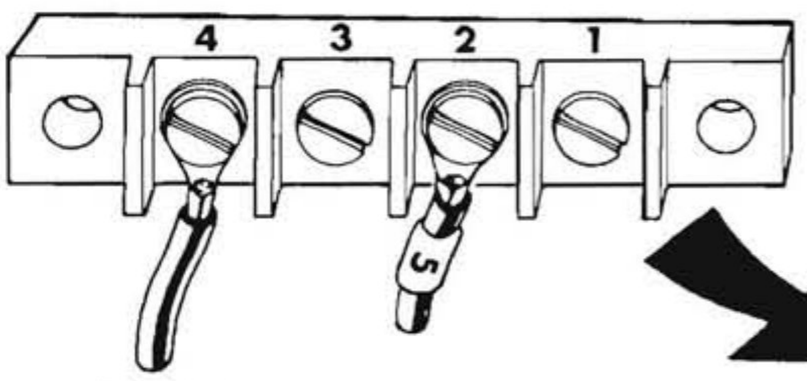
Caution: Unplug the AC power card before touching the Terminal Strip. Do not move transformer wires from Terminal Strip.

OT-0018 comes factory-set with wire No. 5 connected to Terminal 2. This accomodates average variations in AC line voltage.

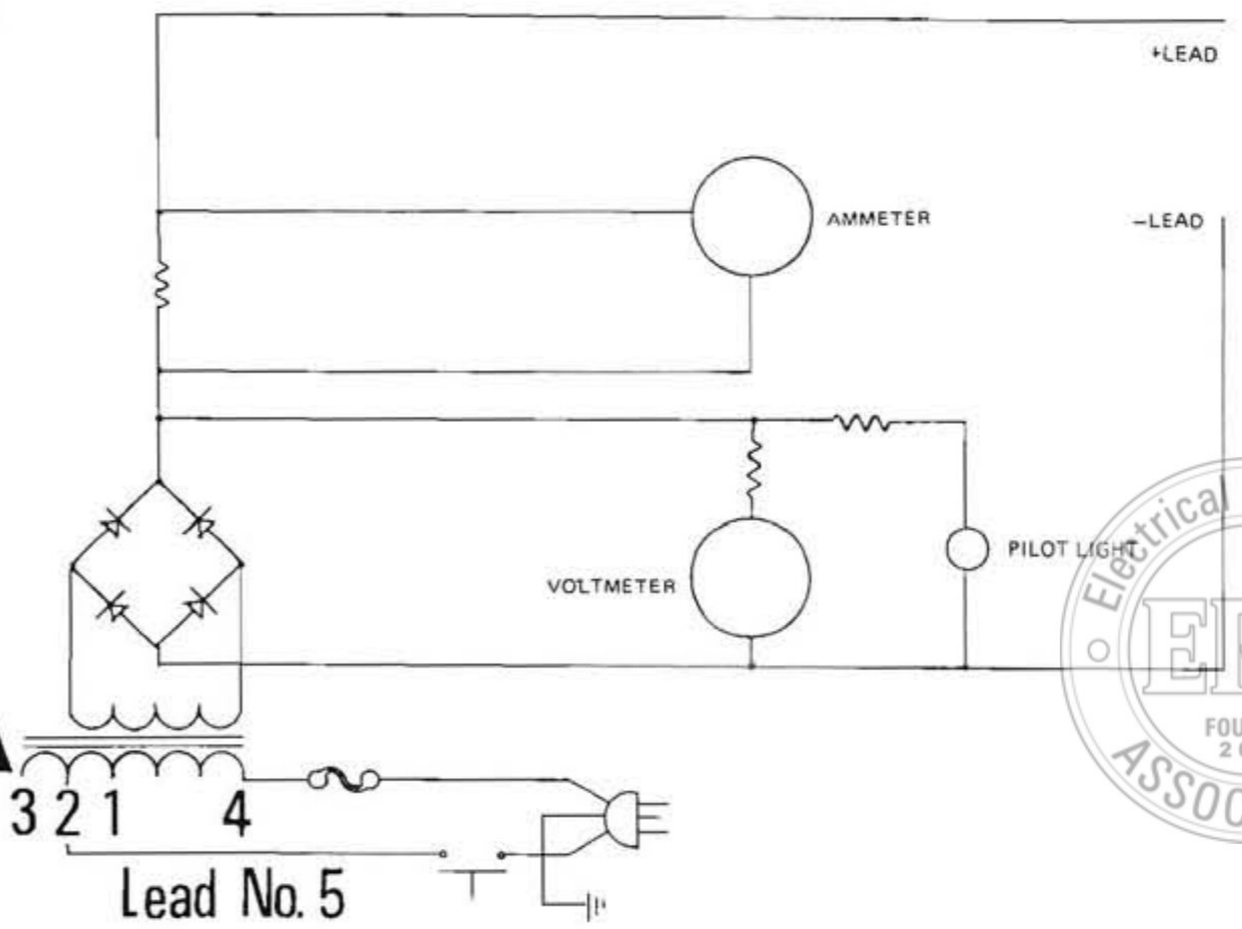
To raise DC voltage that is low due to low AC line voltage, move wire No. 5 from Terminal 2 to Terminal 1.

To lower DC voltage that is high due to high AC line voltage, move wire No. 5 from Terminal 2 to Terminal 3.

Do not move wires connected to Terminal 4 in any case.



IPM OT-0018 WIRING DIAGRAM



Electrical Rebuilder's ERA FOUNDED 2001 ASSOCIATION

FIGURE 1

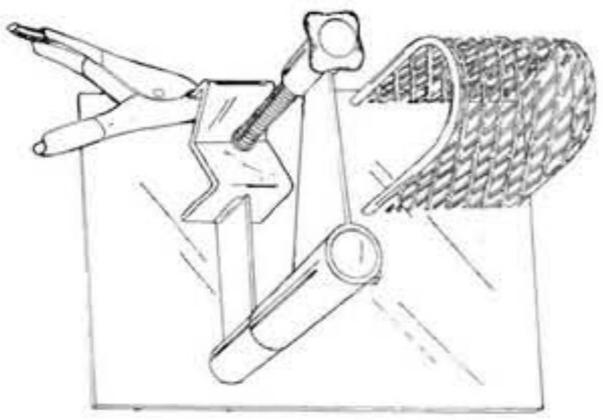
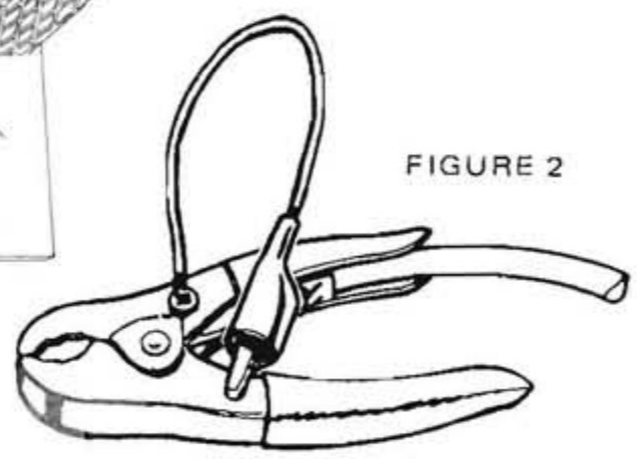


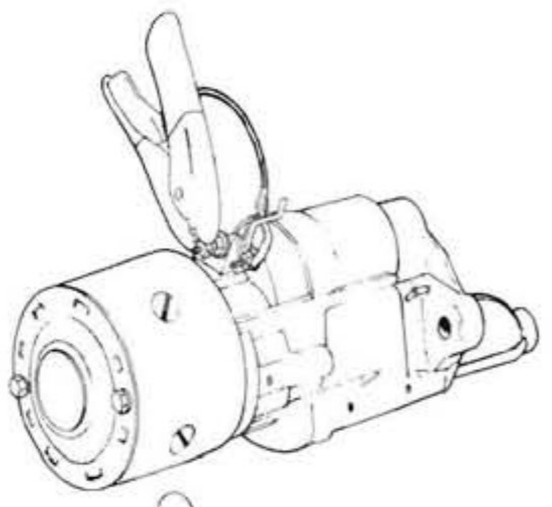
FIGURE 2

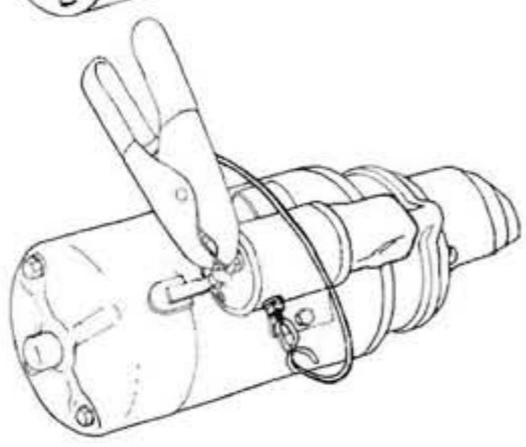


OT-0018 HOOK-UPS

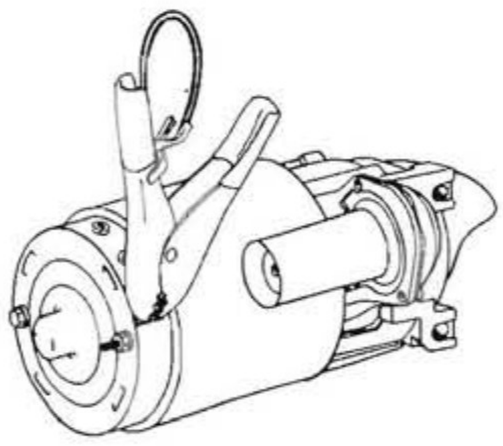
1. Mount starter securely on V-block, being sure starter drive is in protective cage.
2. Connect positive (red) cable to correct starter post as shown below. If small jumper lead is not used, attach clip end to positive clamp to prevent shorting.
3. Connect negative (black) cable to V-block or starter housing as shown in Figure 1.

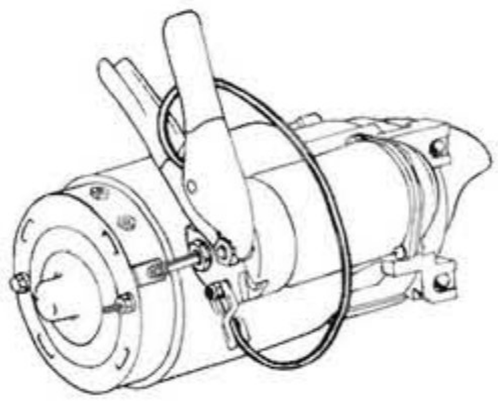
CHRYSLER



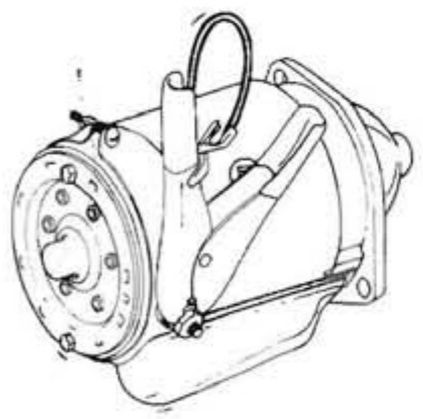


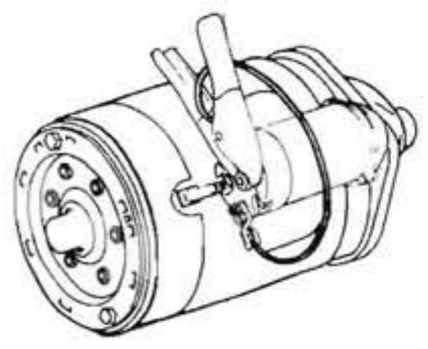
GENERAL MOTORS



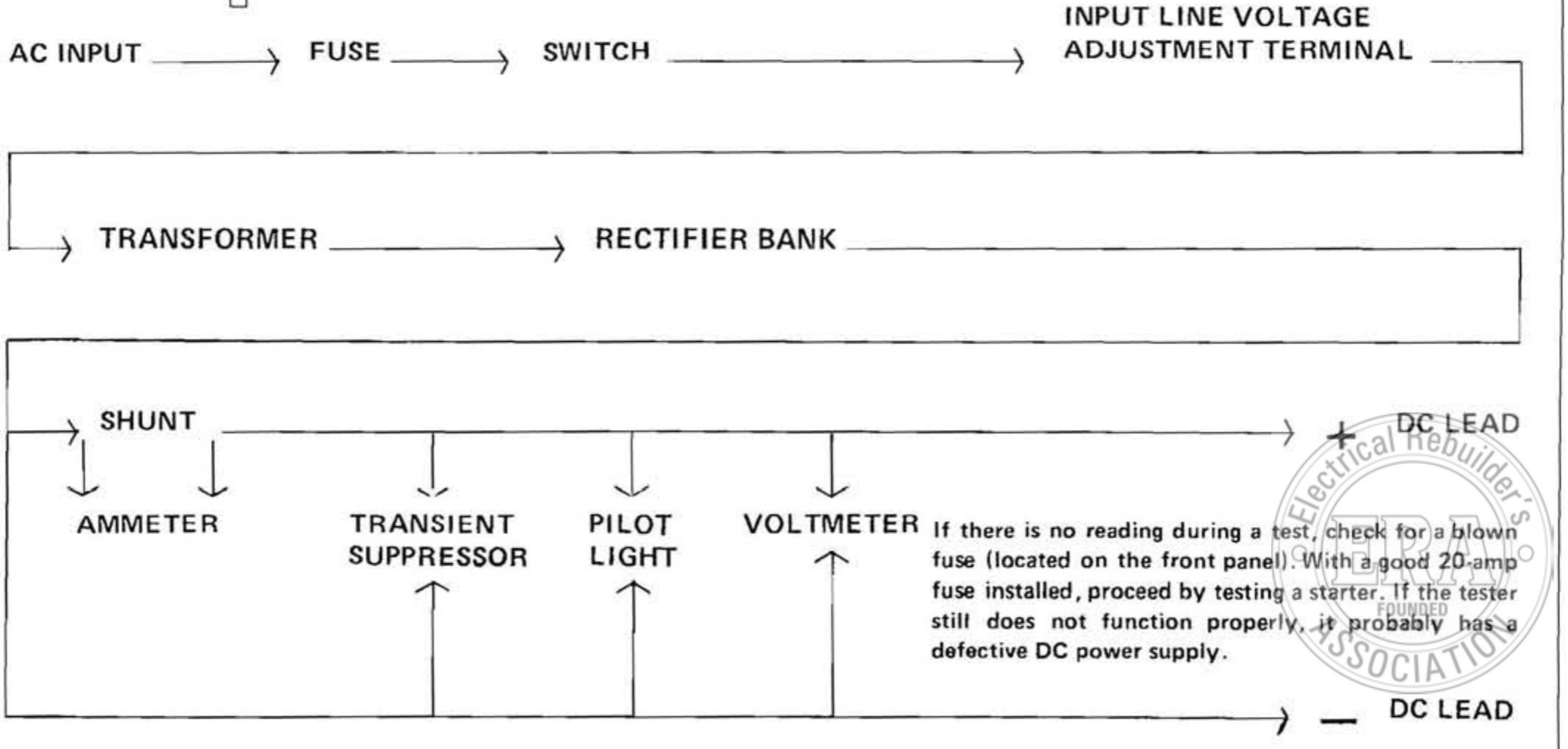


FORD



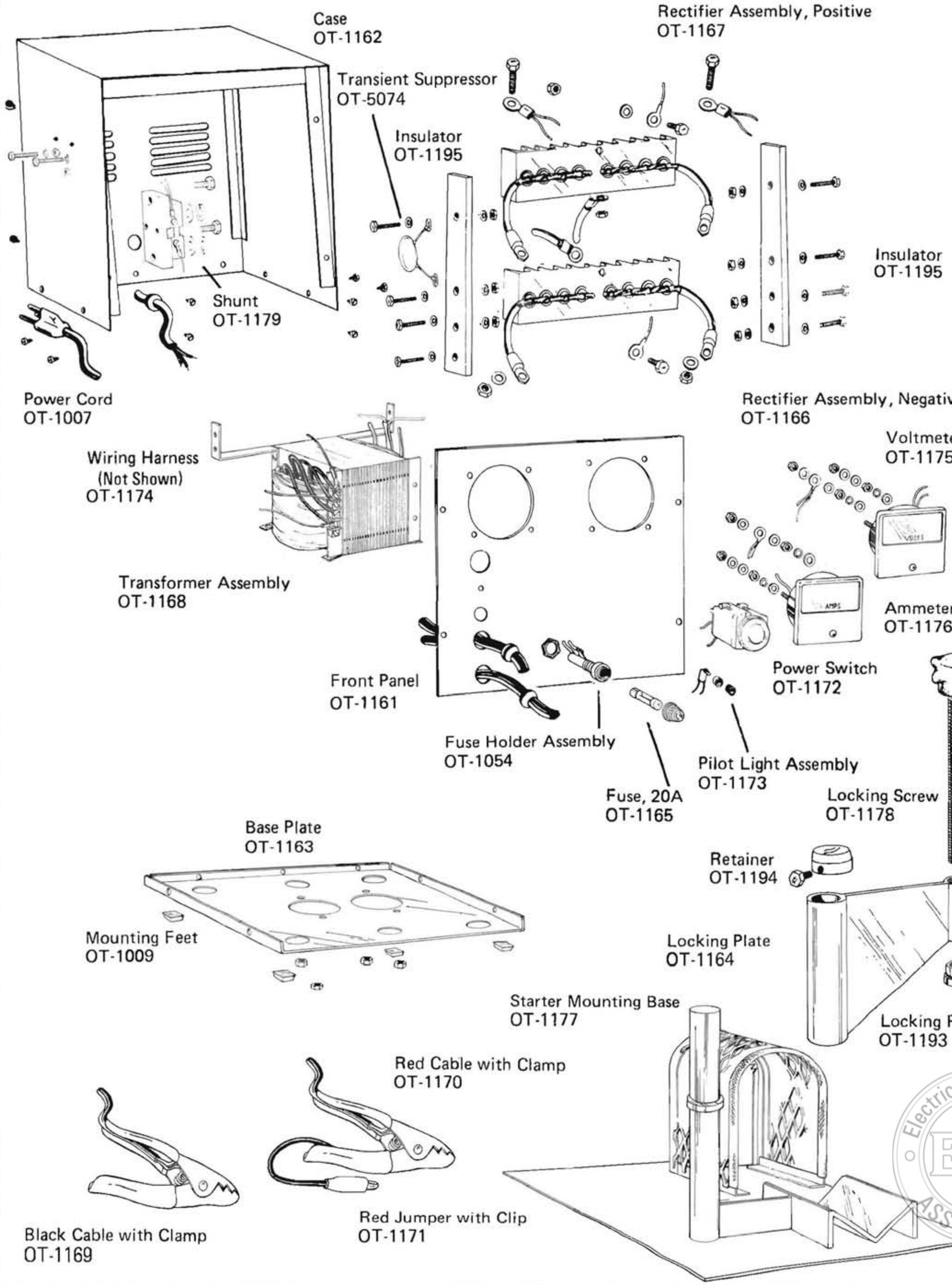


OT-0018 TROUBLE-SHOOTING CHART



Electrical Rebuilder's Association FOUNDED ERA

OT-0018 EXPLODED VIEW



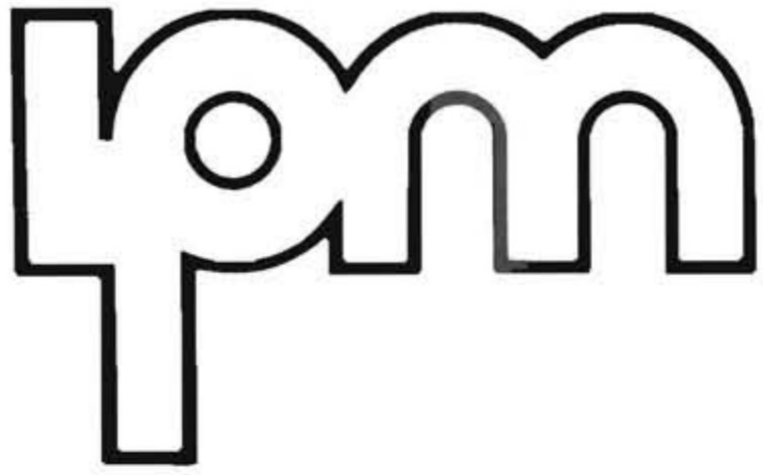
Electrical Rebuilder's ERA FOUNDED 2001 ASSOCIATION

OT-0018

PARTS LISTING

PART NO.	QUANTITY	DESCRIPTION
OT-1007	1	Cord, Power, with Grommet
OT-1009	8	Foot, Mounting, Adhesive
OT-1054	1	Fuse Holder Assembly
OT-1161	1	Panel, Front
OT-1162	1	Case
OT-1163	1	Base Plate
OT-1164	1	Plate, Locking
OT-1165	1	Fuse, 20A
OT-1166	1	Rectifier Assembly, Negative
OT-1167	1	Rectifier Assembly, Positive
OT-1168	1	Transformer Assembly
OT-1169	1	Cable, Black, with Clamp
OT-1170	1	Cable, Red, with Clamp
OT-1171	1	Jumper, Red, with Clip
OT-1172	1	Switch, Power
OT-1173	1	Pilot Light Assembly
OT-1174	1	Wiring Harness
OT-1175	1	Voltmeter
OT-1176	1	Ammeter
OT-1177	1	Base, Starter Mounting
OT-1178	1	Screw, Locking
OT-1179	1	Shunt
OT-1193	1	Foot, Locking
OT-1194	1	Retainer
OT-1195	2	Insulator
OT-5074	1	Suppressor, Transient

Electrical Rebuilder's ERA FOUNDED 2001 ASSOCIATION



Electrical Rebuilder's ERA FOUNDED 2001 ASSOCIATION