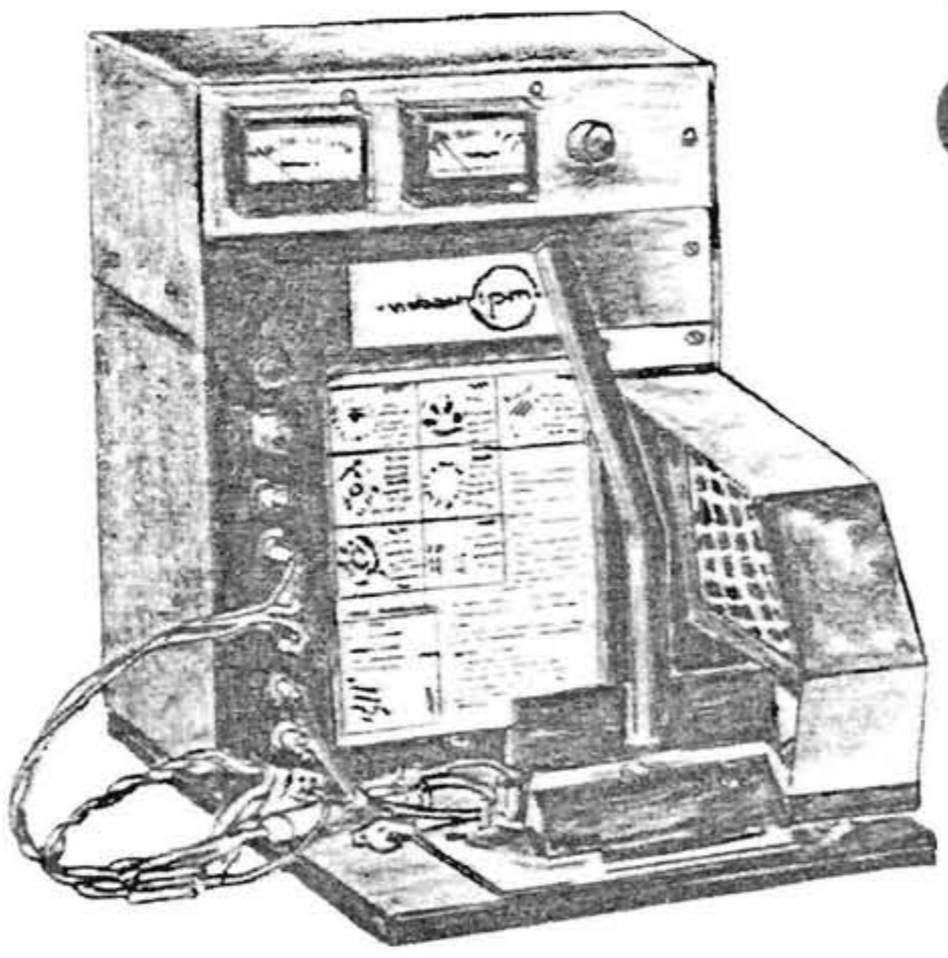
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9-79

•wabash• ipm®
200 E. Daniels Road
Palatine, Illinois 60067

Operation Manual

MODEL

OT-0413
OT-0414



ALTERNATOR STARTER TESTER

Electrical Rebuilder's ERA FOUNDED 2001 ASSOCIATION

wabash · ipm

Limited 90 Day Warranty

IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE, INTERNATIONAL PRODUCTS & MANUFACTURING CO. (WABASH/IPM) WARRANTS to the user that its Product is and shall remain in conformity with WABASH/IPM specifications in effect as of the date of original purchase from WABASH/IPM for 90 days from the date of purchase by user.

WABASH/IPM does not warrant against the consequences of not properly maintaining and/or using Product in a service or manner other than that for which it is produced and intended by WABASH/IPM nor is Product warranted against consequences of machine damage or subjection to conditions or treatment beyond the standards as established in WABASH/IPM's specifications in existence at the time of the Product's manufacture.

Any Product which user believes may not be as warranted, may be returned to WABASH/IPM not more than 100 days following the date of purchase of Product by user, freight prepaid, accompanied by the fully completed warranty return card, or equivalent information as specified by said card, along with proof of purchase of Product by user. FAILURE TO COMPLY WITH THESE RETURN REQUIREMENTS VOIDS THE WARRANTY.

At its option, WABASH/IPM will repair Products or will replace such of the Products so returned as is determined by WABASH/IPM not to be as warranted on a Product for Product basis with Products complying with the warranty and will assume transportation charges to user resulting from such repair or replacement; or, at the option of WABASH/IPM, WABASH/IPM may redeem any such Product WABASH/IPM's then current market price for the quantity of Products so redeemed.

The above is a sole and exclusive remedy, and WABASH/IPM SHALL NOT BE LIABLE FOR ANY OTHER INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES.

Under normal conditions, WABASH/IPM will return the replaced or repaired Product within 30 days after receipt of same. However, WABASH/IPM shall not be liable for any incidental, special, or consequential damages resulting from delays in the return of the Product.

The repair or replacement of the Product shall not extend or renew the 90 day warranty period.

If the serial number of the manufacturing data code marking affixed to the Product is removed, obliterated or defaced, this warranty shall not apply.

Inquiries to WABASH/IPM may be made at 805/359-4710 collect. Warranty service is available Monday through Friday, 8 A.M. to 5 P.M. Central time. Correspondence should be addressed to:

WABASH/IPM
200 East Daniels Rd.
Palatine, Illinois U.S.A. 60067
ATTN: WARRANTY DEPT.

·wabash·ipm

Limited 90 Day Warranty

200 E. DANIELS ROAD
PALATINE, ILLINOIS 60067
(312) 359-4710

Fill out this card and return with equipment to be serviced under warranty.

Product _____

Serial No. _____ Part No. _____

Date Purchased _____ Date Installed _____

Purchased From _____

Address _____ City _____ State _____ Zip _____

Installed By _____ City _____ State _____ Zip _____

Purchaser _____

Address _____ City _____ State _____ Zip _____

Phone _____

Describe Defect _____

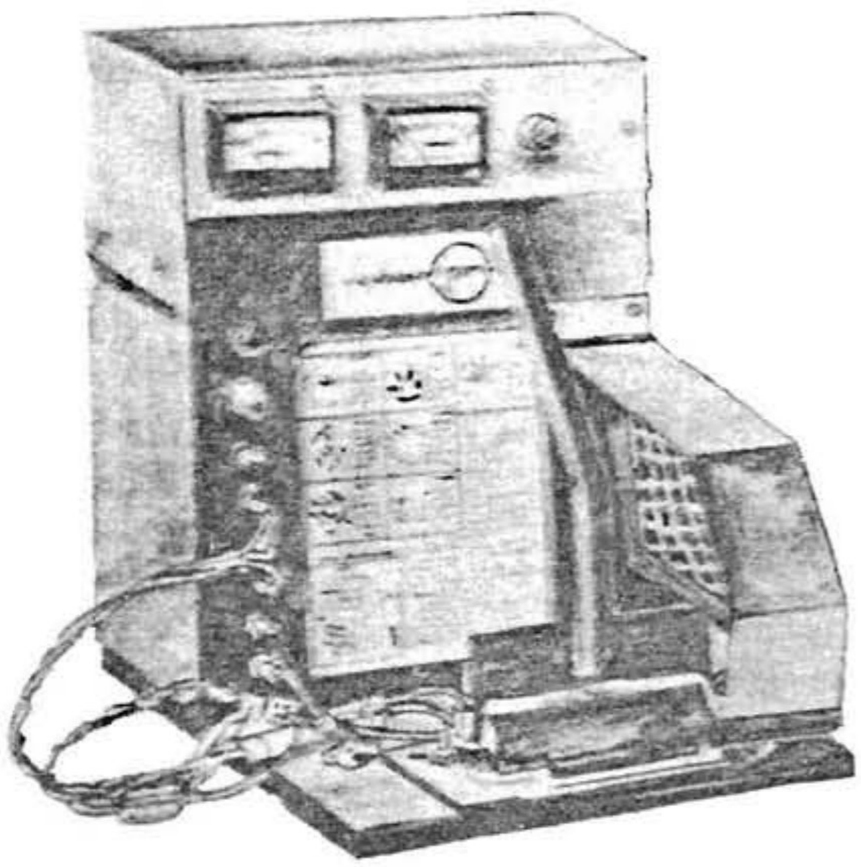
_____
Signature

_____

Electrical Rebuilder's ERA FOUNDED 2001 ASSOCIATION

INF 451

check list

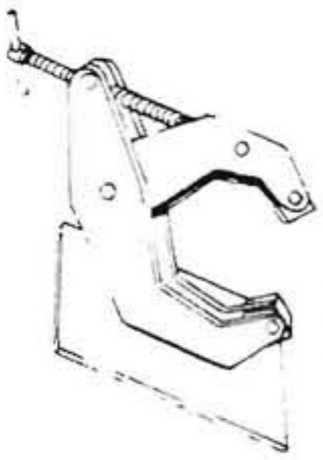


MT-0017
V-Belts (2)



ZT-0002
Test Lead Kit

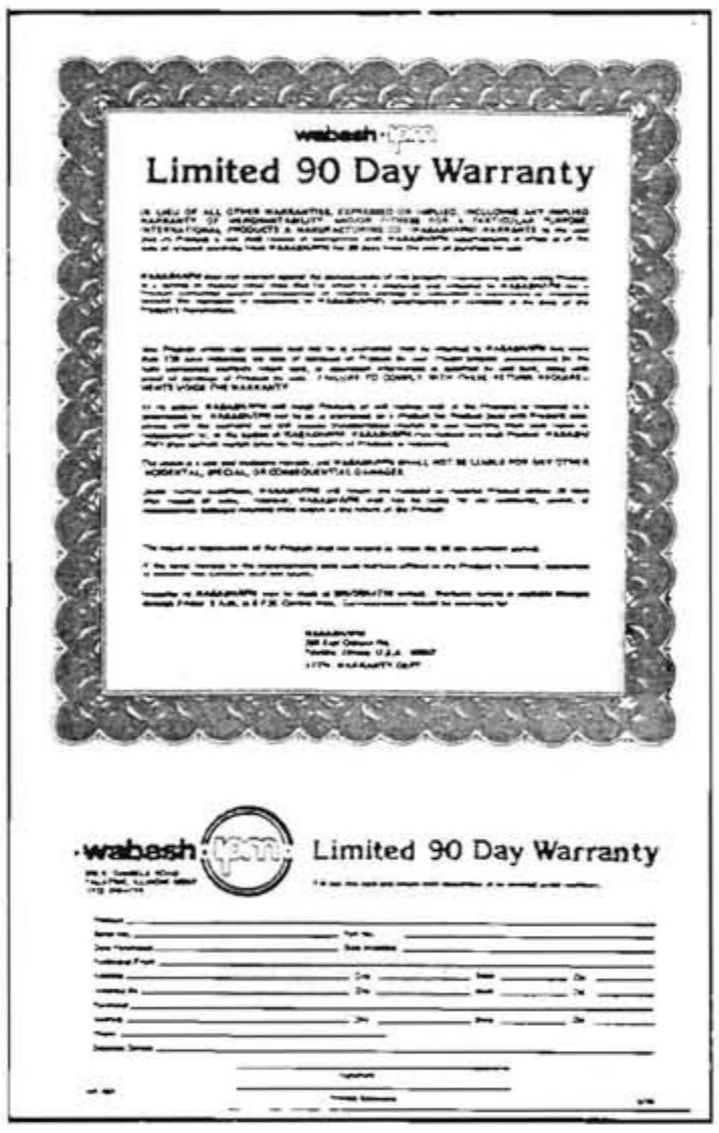




QT-5200
Starter Mounting Fixture

ZT-0004
Fuse Kit





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Limited 90 Day Warranty

wabash · ipm Limited 90 Day Warranty

Electrical Rebuilder's ERA FOUNDED 2001 ASSOCIATION

installation instructions

The OT-0413 DC Powered Alternator Tester was designed for use with mobile vans, core trucks and highway repair vehicles where an Alternator Tester is required to test on location. The tester operates with power from the van's battery.

CONNECTING POWER CABLES

Once the tester is mounted in the vehicle the power cables must be connected. The tester was designed to be connected to the parts van's starter. The positive lead (red) is connected to the starter's battery terminal and the negative cable to any good ground.. The installer must drill (2) holes in the floorboards or find an existing opening to thread the power cables through to the frame or the starter. The cable must not be exposed to hot exhaust systems or sharp edges that could break down the cable insulation. All cable connections must be tight.

NOTE: It is recommended that the vehicle be kept idling (changing) if several starters or alternators are being listed. This is to prevent draining the battery.

AMPERAGE READING CHART

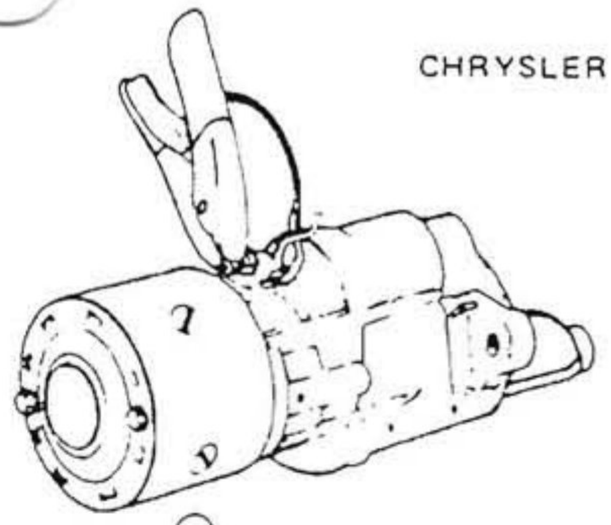
A passenger car starter with an amperage draw in excess of the maximum shown is generally considered as faulty.

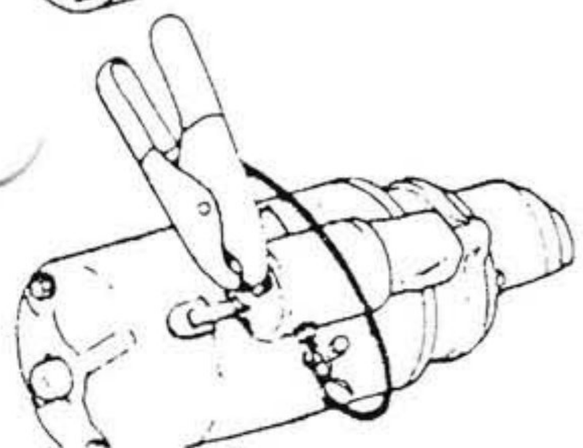
Origional Equipment Manufacturer	Maximum Amp. Draw without Solenoid	Maximum Amp. Draw with Solenoid Attached
Chrysler	110	
Delco	100	125
Ford	90	115
Other Passenger Type	110	135

Rev. PT-0002

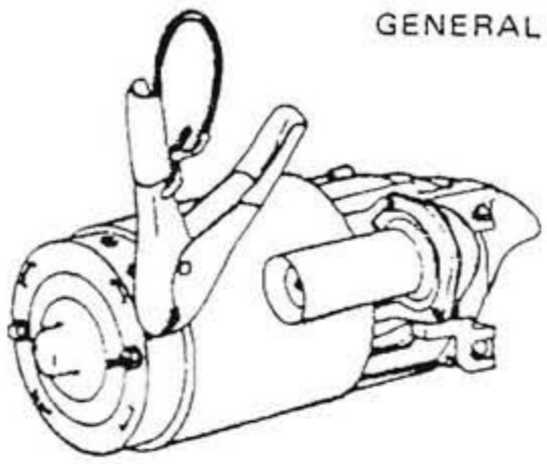
CONNECTING CHART

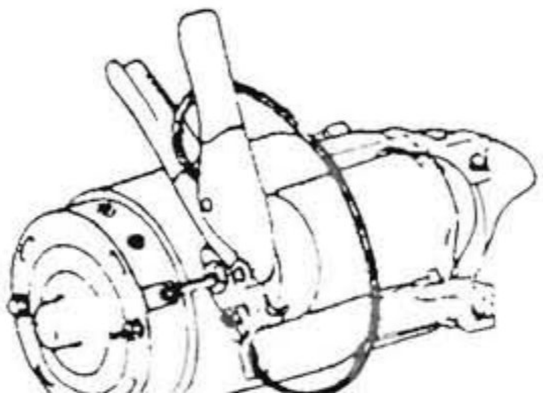
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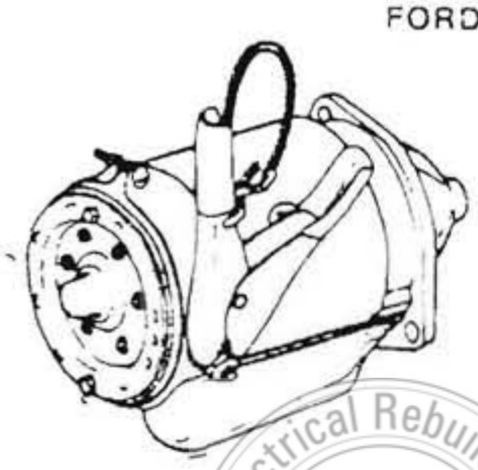


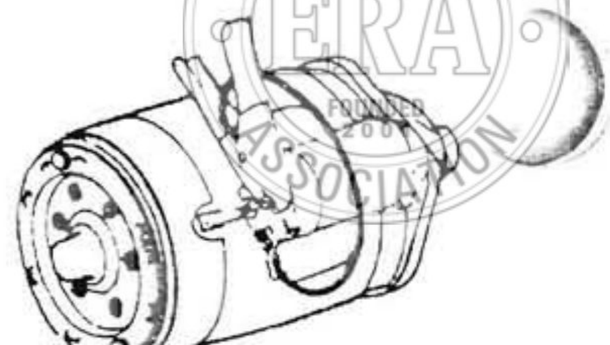
GENERAL MOTORS





FORD





Electrical Rebuilder's ERA ASSOCIATION FOUNDED 2001

operation instructions

GENERAL DESCRIPTION

ALTERNATORS: The OT-0413/414 ALTERNATOR and STARTER TESTER is designed to operate on 12 volts DC and will test American and Foreign Alternators, including the GM integral alternator. The OT-0413 does NOT test brushless, 2-phase, or self excited types..

2 Panel lights indicate the condition of the alternator. The green light indicates the condition of the alternator and the red light indicates the condition of the diode trio.

STARTERS: The OT-0413/414 MOBILE ALTERNATOR and STARTER TESTER will test American and Foreign starters for passenger cars and light trucks.
The condition of the starter is indicated by a Voltmeter and an Ammeter.

OPERATION INSTRUCTIONS

STARTER TESTING:

Secure the Starter Mounting Fixture to work bench or table top.

To mount a starter without a solenoid, clamp on the black cable (negative) to the starter housing or the V-block and clamp the red cable (positive) to the field post lead;

On a starter with a solenoid, connect the small red jumper to the solenoid post normally marked "S". Make sure the starter drive moves all the way forward in the drive housing as the solenoid is engaged. WARNING DO NOT allow small red jumper to come in contact with the starter housing.

Once a proper hook-up has been made press the test button located to the right of the meters.
As soon as the meters have stabilized (within five (5) seconds) take the voltage and amperage readings.

Compare these readings with the chart provided on the opposite page.

CAUTION:
DO NOT EXCEED 5 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 and tester damage.

Electrical Rebuilder's ERA FOUNDED 2001 ASSOCIATION

operation instructions

OPERATION INSTRUCTIONS
ALTERNATOR TESTING

MOUNTING

Select proper mounting hole on alternator and slide on mounting post. Place V-belt on alternator pulley.

HOOK-UP

Refer to chart on front of machine. If alternator is not shown, hook-up leads accordingly:

Red Lead - (positive) to battery post.
Yellow Lead- (negative) to ground.
Green Lead - to field terminal.
Black Lead - used only for testing the Delco-Remy integral alternator.

OPERATION

Turn power switch to on position. Pull back firmly on handle of belt tension device to tighten belt. Press "Alternator Test" button, while keeping tension on belt. DO NOT take tension off belt, until drive motor has stopped. Observe green light for alternator condition. Observe red light located above the green light for diode trio condition.

NOTE: It is recommended that the vehicle be kept idling (charging) if several starters or alternators are being tested. This is to prevent draining the battery.

GREEN LIGHT EVALUATION

1. Light stays on - alternator is good;
2. Light does not come on - alternator is bad.
3. Light comes on then goes out - alternator is bad.

The small red light located above the green light will indicate the diode trio condition on the Delco-Remy Integral Alternator. The red light is irrelevant in any other test.

RED LIGHT EVALUATION

1. Light stays off - trio is good.
2. Light stays on - trio is bad.

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calibration

ALTERNATOR CHECKING

To check tester, place power switch in on position. Hook-up and test a non-integral alternator that is known good. While the tester is running the green light should come on and stay on without flickering. If all the above occurs, tester is in calibration. If motor does not come on check 10 amp fuse below the black lead on the front panel. If the green light does not come on check bulb behind the green lens. If bad replace with a No. 1889 type bulb only.

ADJUSTMENT

The sensitivity of your tester may need adjusting occasionally due to vibrations that alter the setting of the potentiometer on the circuit board.

MAKE ADJUSTMENTS THIS WAY:

Locate the Alternator Test Lamp Potentiometer per fig. 1 on rear of panel.

Hook red lead and green lead together.
To make adjustments push "Alternator Press To Test" button;
While button is depressed turn adjusting screw on potentimeter.
If light is offturn screw clockwise until light

If light is off turn screw clockwise until light comes on bright. Then turn screw counter clockwise until light comes on without flickering.

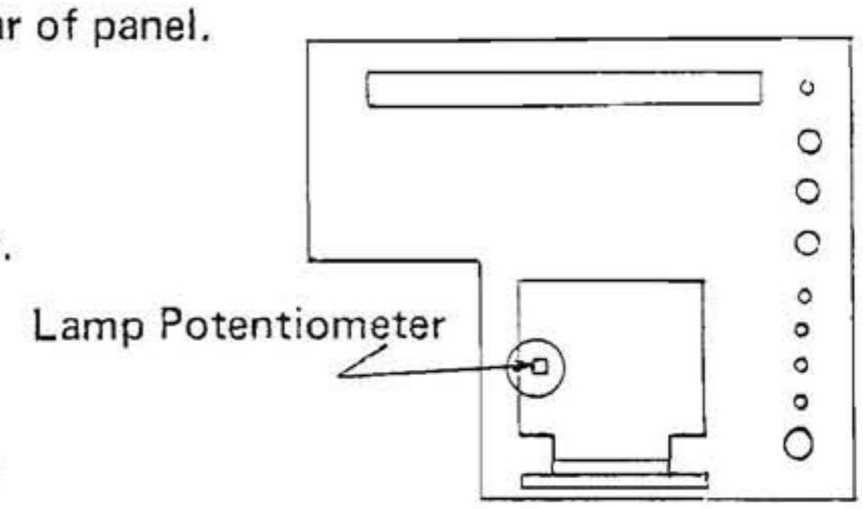


Fig. 1 Front Panel
(Rear View)

STARTER CHECK

To check Volt Meter and Ammeter, make sure black and red power cables are not shorted or making electrical contact in any way. Hook small red jumper to red clamp. Press starter test button and observe Voltmeter and Ammeter. Voltmeter should read 0 amps. If above does not occur check panel fuse. If still no results contact manufacturer.

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OT-0413/0414schemati

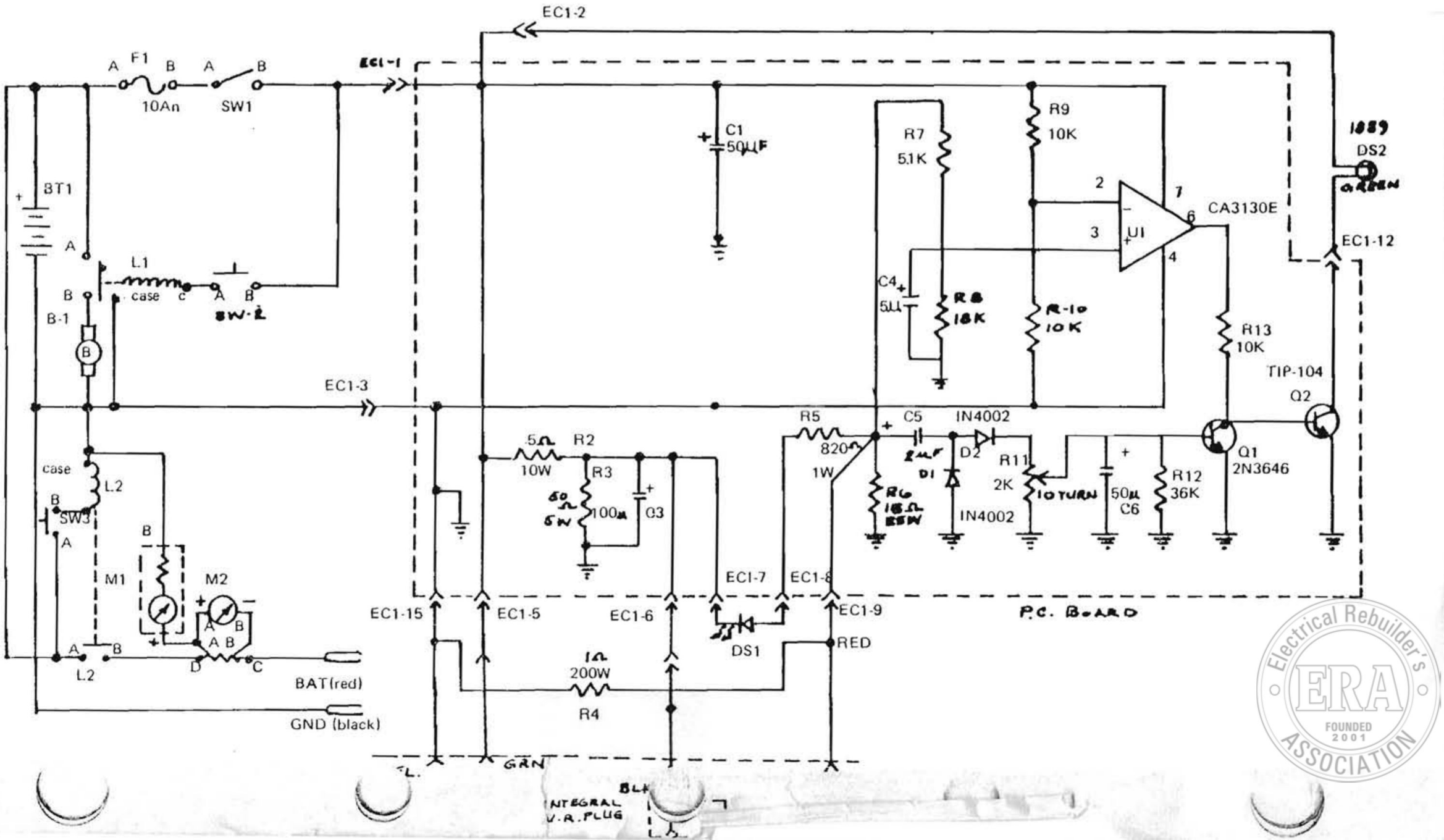
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