

DESCRIPTION, ADJUSTMENTS AND PARTS CATALOG
OF THE TELETYPE REC11 RECTIFIER

DESCRIPTION

The REC11 rectifier is designed to deliver continuously 0.6 ampere at 120 volts D.C. from 105 to 125 volt 50-60 cycle A.C. single phase power supply. The direct current from this rectifier is suitable for operation of Teletype perforator punch magnets but is NOT suitable for use in the signaling or local relay and selector magnet circuits of Teletype apparatus.

This rectifier consists of an insulated type input transformer with variable secondary taps, a full wave selenium rectifying element, a power factor correction condenser, a filter consisting of a choke and a condenser, and a bleeder resistor. All parts are secured to a metal base which has feet for shelf mounting. The rectifier is furnished complete with cover, cords, and plugs for making A.C. and D.C. connections.

The metal cover which is fastened to the base by means of screws has a black wrinkle finish.

The approximate dimensions of the rectifier are 11-7/8" long, 8-1/2" deep, and 8" high.

RATING

Input: 105 to 125 volts, 50 to 60 cycles A.C., single phase.

Output: 0.6 ampere at 120 volts D.C.

No load D.C. voltage when new: Not over 145 volts.

A.C. component in D.C. output voltage not more than 6 volts R.M.S. at .6 ampere load.

ADJUSTMENTS

The secondary of the transformer is provided with taps so that the output voltage of the rectifier can be adjusted to suit requirements and to compensate for voltage drop resulting from aging of the rectifying assembly. These taps are equipped with leads which connect to eight terminals on a panel. Three terminals provide coarse voltage adjustment and are labeled L, M, and H. Five terminals provide fine voltage adjustment and are labeled 1, 2, 3, 4, and 5. Connections to these terminals are made by means of pin plugs or spade terminals attached to flexible leads. The plugs or terminals are connected, at the factory, to terminals M and either 1, 2, or 3 to deliver .6 ampere at 120 volts D.C.

The method normally employed in checking the D.C. output of this rectifier is to disconnect all apparatus from the D.C. side and connect a 60 watt lamp in series with a suitable ammeter across the output. For correct adjustment of the output, the flexible leads should be connected to those taps which will cause the ammeter to register a current flow which is nearest but not less than 0.5 ampere. This adjustment should be checked when the rectifier is installed and periodically thereafter. The amount of aging

will be somewhat greater during the first few months of use. After this, the rectifier should operate for long periods without the necessity of readjustment.

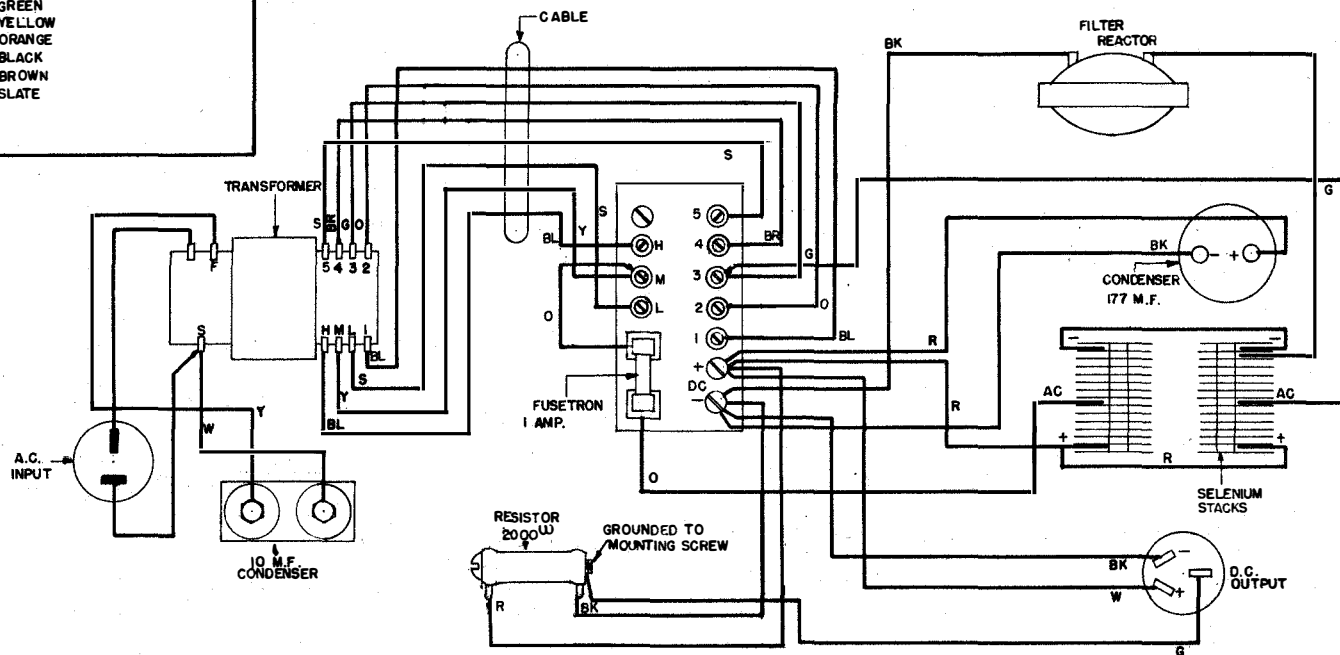
If at any time it is necessary to use the maximum regulating taps to obtain the proper output current, the rectifier should be withdrawn from service and repaired.

Wiring diagram W.D. 2050 which forms a part of this specification shows the actual and schematic wiring of this rectifier. An assembly drawing is also furnished showing names and teletype part numbers of the component parts of the rectifier.

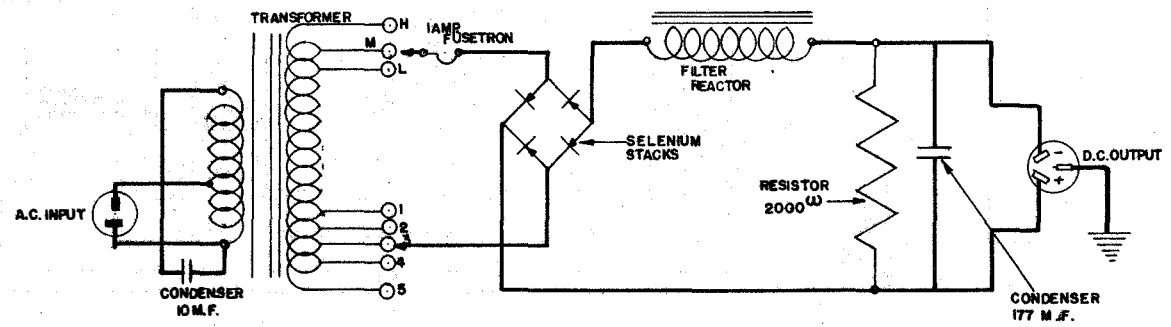
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WIRE COLOR CODE	
CODE	SOLID COLOR OR TRACER IN WHITE WIRE
R	RED
W	WHITE
BL	BLUE
G	GREEN
Y	YELLOW
O	ORANGE
BK	BLACK
BR	BROWN
S	SLATE

REVISIONS
(A) SPADE TERMINALS SHOWN 11-B-43 32642
(B) 2-15-44 33447
(C) 8-30-44 35430
(D) 10-20-44 35863
(E) 4-12-45 37540



ACTUAL



SCHEMATIC

WD 2050 E
10-15-41

WIRING DIAGRAM
REC 11 & REC 19
RECTIFIERS

DRAWN A.G.C. APPROVED
ENGR'D B.W. *FAH*

FILE 19-33AAA

TELETYPE
CORPORATION

