Teletype Corporation
Chicago, Illinois, U.S.A.

Specification S-5268
Issue 3, Page 1
January, 1945

DESCRIPTION, ADJUSTMENTS, AND PARTS ORDERING INFORMATION TELETYPE MODEL REC12 RECTIFIER

DESCRIPTION

The REC12 rectifier is designed to deliver 0.125 ampere at 120 volts D.C. from a 105-125 volt 50-60 cycle A.C. line. It consists of an insulated type input transformer with variable secondary taps, a full wave selenium rectifying element, a power factor correction condenser, and a filter consisting of a choke and condenser and a bleeder resistor. All parts are secured to a metal base which has rubber 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, 6-3/4" wide and 8" high.

RATING

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

Output: 0.125 ampere at 120 volts D.C.

A.C. component in D.C. output voltage 2% rms at 0.125 ampere load.

No load D.C. voltage when new not over 135 volts.

ADJUSTMENTS

Three coarse and five fine secondary transformer taps are provided which terminate in spring jacks marked L, M, and H and 1, 2, 3, 4, and 5 for readily adjusting the D.C. output voltage for any particular line requirement and to correct for aging of the rectifier element.

Rectifier adjustments are set at the factory on taps M and either 1, 2 or 3 to deliver 0.125 ampere at 120 volts D.C. or 0.098 ampere at 123.5 volts D.C. plus or minus 1%.

Each fine tap will change the current through a 1260 ohm load resistor approximately 3 milliamperes, and each coarse tap approximately 14 milliamperes.

The method normally employed in the adjustment of this rectifier is to disconnect all apparatus from the D.C. side and to connect a 1260 ohm resistance (plus or minus 1%) in series with a milliameter across the output, and adjust the taps until the current through the resistance is nearest, but not less than 0.098 amperes.

This adjustment should be made when the rectifier is installed, and periodically thereafter. The amount of aging will be somewhat greater during the

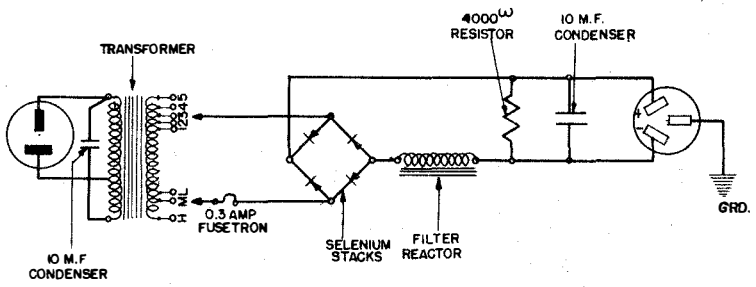
first few months of use. After this, the rectifier should operate for long periods without the necessity of readjustment.

If, at any time, it is necessary to use the maximum secondary voltage to get the proper output current, the unit should be withdrawn from service and repaired.

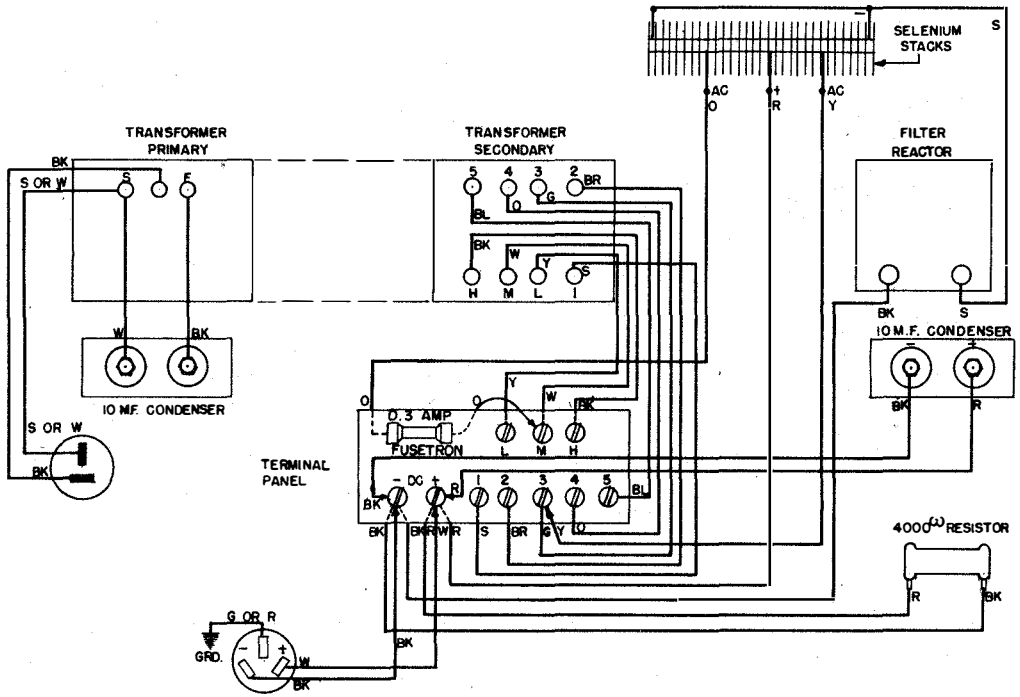
Wiring diagram W.D. 1958, which forms a part of this specification, shows the actual and theoretical wiring of this rectifier.

NO.	NOTES
	WIRE COLOR CODE
1	CODE: SOLID COLOR OR TRACER IN WHITE WIRE Y YELLOW G GREEN BR BROWN W WHITE O ORANGE S SLATE R RED BK BLACK BL BLUE
2	← INDICATES TERMINALS

REVISIONS
(C) 12-28-44 36586
REDRAWN



SCHEMATIC WIRING



ACTUAL WIRING

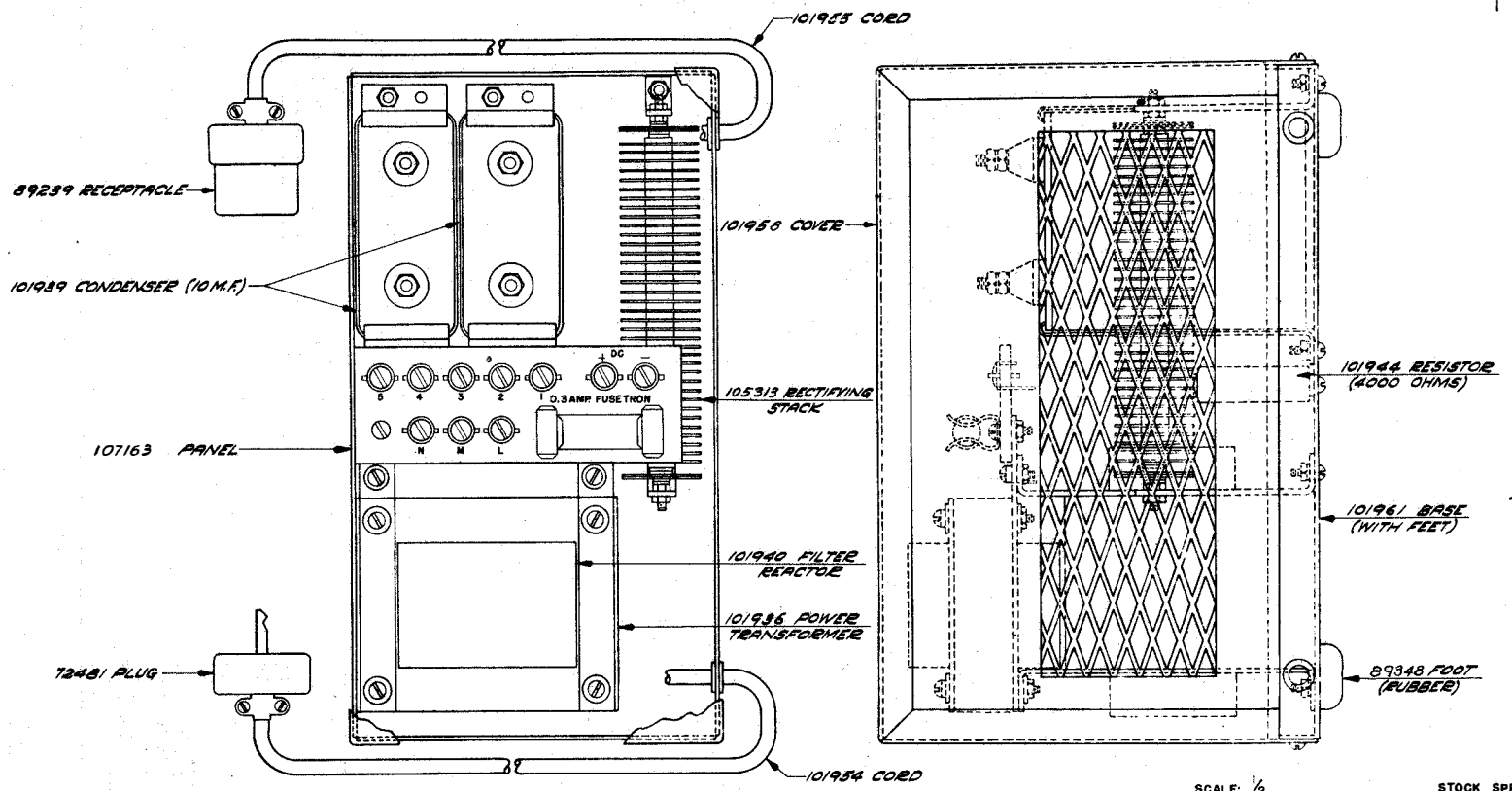
W.D. 1958-C
8-13-40

WIRING DIAGRAM
REC 12
RECTIFIER

DRAWN A.G.C | APPROVED
ENG'D
FILE: 21-33AAA

TELETYPE CORPORATION

SELENIUM STACK RECTIFIER



SCALE: 1/2

STOCK SPECIFICATION

SIZE	KIND	SHAPE	TEMPER
	COMMERCIAL		

TELETYPE CORPORATION		
DATE 4-11-41	DRAWN BY S.L.D.	APPROVED:

PART 102488

102488

PARTS REQ	NO REQ	USED ON	NO REQ
72481	1	REC-12	1
89239	1	SALES	
89348	4	ORDERS	
101936	1	ONLY	
101939	1		
101940	1		
101944	1		
105313	1		
107163	1		
*101954	1		
101955	1		
101958	1		
101961	1		

REVISED

ISSUE NO.	DATE	CHANGE AUTH. NO.
2	10-3-41	26365
3	4-8-43	30868
4	10-7-43	32221
5	11-19-43	32641
6	12-4-43	32782