*DESCRIPTION, ADJUSTMENTS, AND PARTS ORDERING INFORMATION OF THE TELETYPE REC10 AND REC40 RECTIFIERS

1. DESCRIPTION

a. The REC10 rectifier is designed to deliver .200 ampere at 120 volts D.C. from a 105 to 125 volt 50 to 60 cycle A.C. single phase power supply. The REC40 rectifier is designed to deliver .200 ampere at 120 volts D.C. from a 210 to 250 volt 50 to 60 cycle A.C. single phase power supply. The direct current from these rectifiers is suitable for operation of signaling or local relay and selector magnet circuits of Teletype apparatus.

b. These rectifiers consist of an insulated type input transformer with variable secondary tape, a full wave selenium rectifying element, a power factor correction condenser, and a bleeder resistor. All parts are secured to a metal base which has rubber feet for shelf mounting. The rectifiers are furnished complete with cover, cords, and plugs for making A.C. and D.C. connection.

c. The metal cover which is fastened to the base by means of screws is finished in black wrinkle.

*d. The approximate dimensions of the rectifiers are 11-7/8" long, 6-3/4" wide, and 8" high. The approximate net weight is 34 pounds.

2. RATING

*Input: REC10 - 105 to 125 volts, 50 to 60 cycles A.C., Single Phase.
REC40 - 210 to 250 volts, 50 to 60 cycles A.C., Single Phase.
Watts, 48

Output: .200 ampere at 120 volts D.C.

No load D.C. voltage when new: Not over 135 volts.

3. ADJUSTMENTS

a. 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.

b. Rectifier adjustments are set at the factory on taps "M" and either "1", "2", or "3" to deliver .200 ampere at 120 volts D.C.

c. The method normally employed in checking the D.C. output of these rectifiers is to disconnect all apparatus from the D.C. side and connect a 600 ohm resistor in series with a suitable milliammeter across the output. For correct adjustment of the output, the flexible leads shall be connected to those taps which will cause the ammeter to register a current flow which is nearest but not less than .2 amperes. 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.

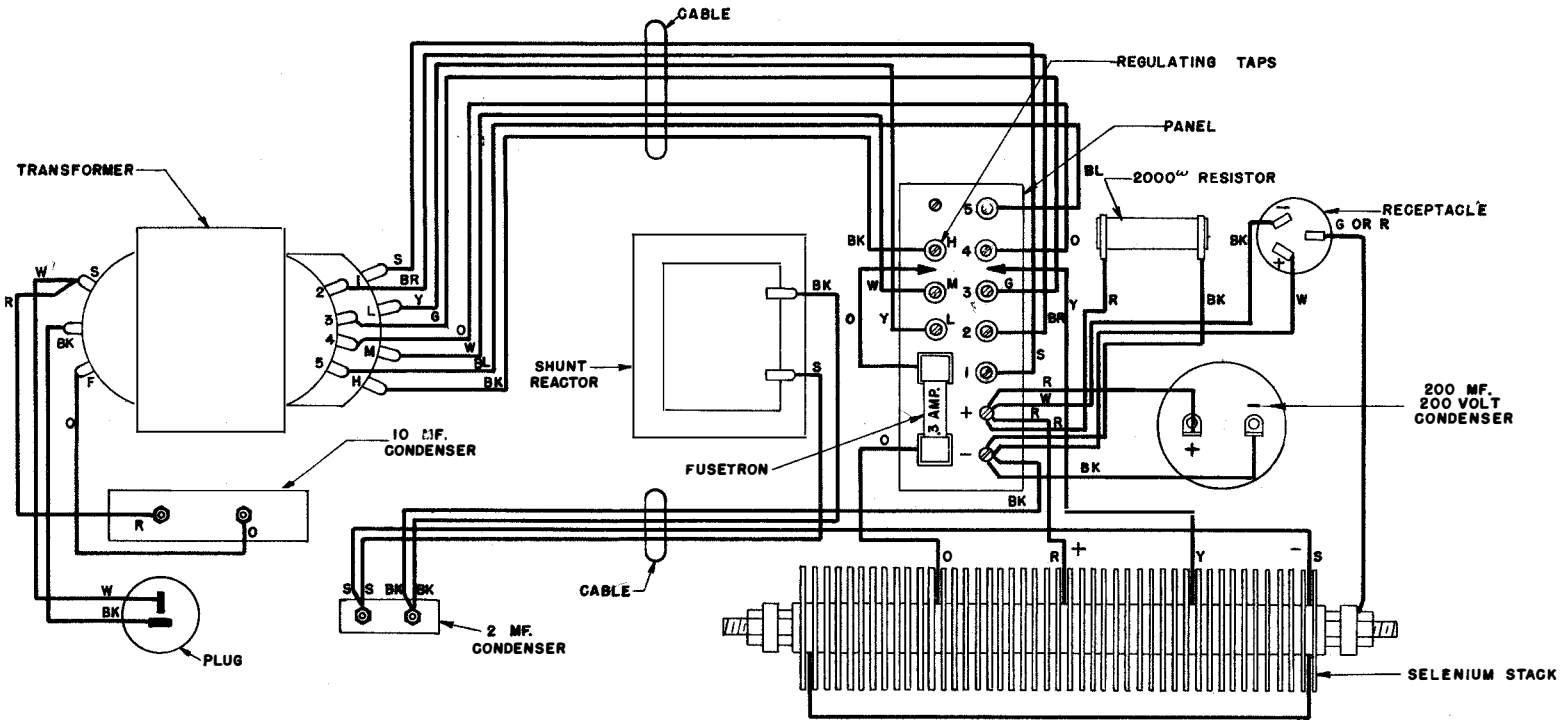
After this, the rectifiers should operate for long periods without the necessity of readjusting.

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

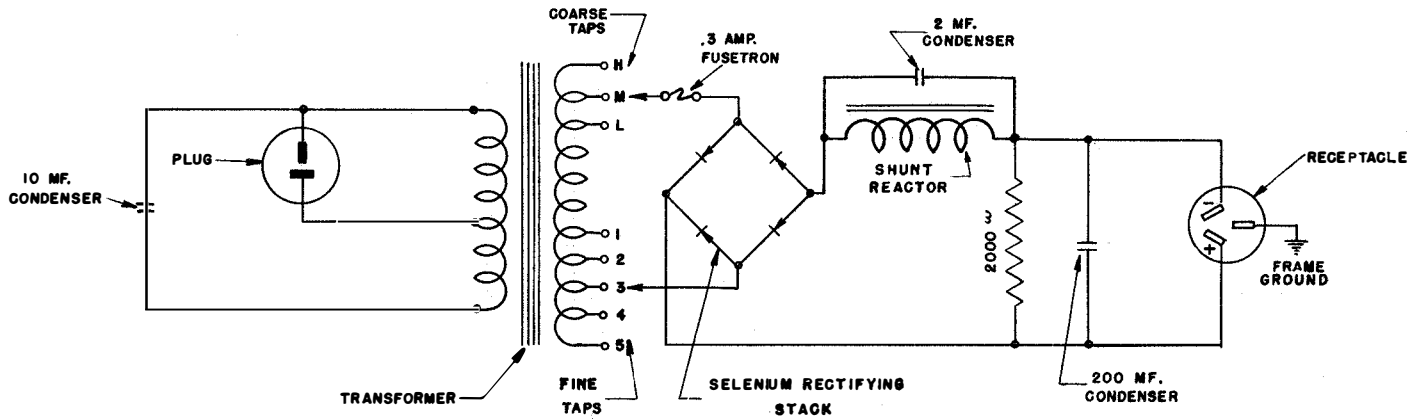
e. Wiring diagram 2019WD shows the actual and theoretical wiring of these rectifiers. Figure 1 shows part numbers, which also form a part of this specification.

* * *

REVISIONS
(A) SPADE TERMINALS SHOWN- 11-19-43, 32642
(B) 4-5-45 37475
(C) 11-8-46 41141
(D) 6-17-49 47720



ACTUAL WIRING



SCHEMATIC WIRING

TELETYPE CORPORATION

WD-2019-C 4-11-41

FILE: 19-33 AAA

WIRING DIAGRAM FOR REC-10 REC-40

DRAWN E.K.D.

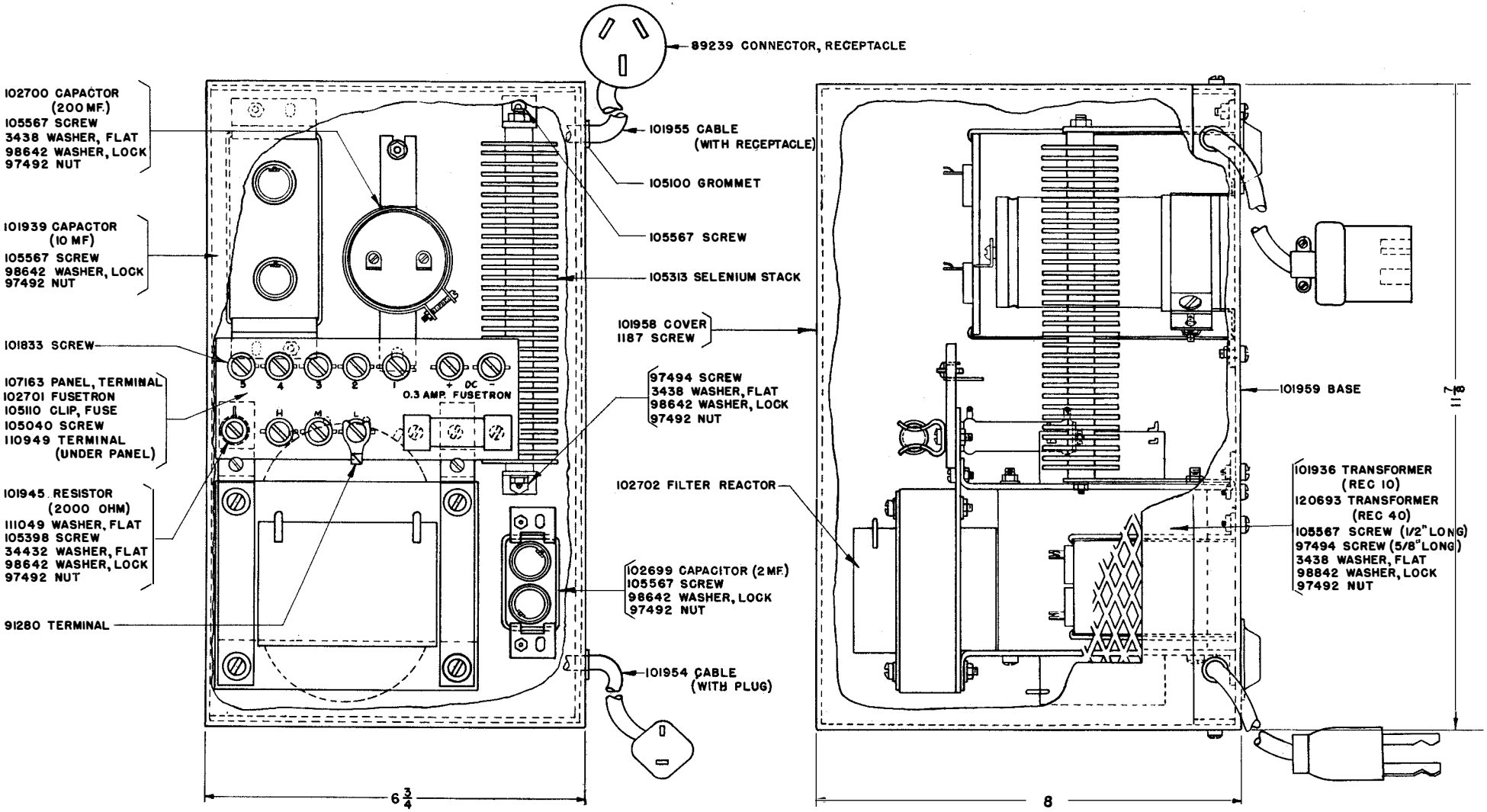

89239 CONNECTOR, RECEPTACLE
102700 CAPACTOR (200 MF.)
105567 SCREW
3438 WASHER, FLAT
98642 WASHER, LOCK
97492 NUT
101939 CAPACTOR (10 MF)
105567 SCREW
98642 WASHER, LOCK
97492 NUT
101833 SCREW
107163 PANEL, TERMINAL
102701 FUSETRON
105110 CLIP, FUSE
105040 SCREW
110949 TERMINAL (UNDER PANEL)
101945 RESISTOR (2000 OHM)
111049 WASHER, FLAT
105398 SCREW
34432 WASHER, FLAT
98642 WASHER, LOCK
97492 NUT
91280 TERMINAL
101955 CABLE (WITH RECEPTACLE)
105100 GROMMET
105567 SCREW
105313 SELENIUM STACK
101958 COVER
1187 SCREW
97494 SCREW
3438 WASHER, FLAT
98642 WASHER, LOCK
97492 NUT
102702 FILTER REACTOR
102699 CAPACITOR (2 MF.)
105567 SCREW
98642 WASHER, LOCK
97492 NUT
101954 CABLE (WITH PLUG)
5 4 3 2 1 + DC −
0.3 AMP. FUSETRON
H M L
6 3/4
101959 BASE
101936 TRANSFORMER (REC 10)
120693 TRANSFORMER (REC 40)
105567 SCREW (1/2" LONG)
97494 SCREW (5/8" LONG)
3438 WASHER, FLAT
98842 WASHER, LOCK
97492 NUT
11 7/16
8

FIGURE 1