BELL SYSTEM PRACTICES
Teletypewriter Stations

ADDENDUM P31.101
Issue 3, March, 1957
AT&TCo Standard

RECTIFIERS FOR TELETYPEWRITER APPARATUS

1. GENERAL

1.01 This addendum supplements Issue 5 of Bell System Practices Section P31.101.

1.02 This addendum is reissued to provide information on additional rectifiers; KS-5928, List 6, KS-15620, Lists 4, 6 and 7 and to note minor changes in the section.

1.03 The new rectifiers operate from a 115-volt 60-cycle supply.

1.04 The following paragraphs are to be added to Section P31.101, Issue 5. The asterisk indicates numbers in that section.

Description of KS-5928, List 6 Rectifier (Fig. 27)

*3.18 The List 6 rectifier consists of a ferro-resonant reactor, a linear reactor, a germanium rectifier bridge, filter capacitors, and a bleeder resistor. Also provided are pin jacks for connecting an external voltmeter on the output, a cord and polarized cap for the ac connections, and a cord and polarized cap for the dc connections. Protective fusing consists of Bussman fuse MDL-2.

Description of KS-15620, List 4 Rectifier (Fig. 28)

*3.19 The List 4 rectifier is a selenium type with an insulating transformer, saturable reactor coils and a II section filter.

Description of KS-15620, List 6 Rectifier (Fig. 29)

*3.20 The List 6 rectifier is electrically and mechanically interchangeable with the List 4 rectifier. A potentiometer has been provided to adjust the output voltage and pin jacks are provided for making voltage measurements.

Description of KS-15620, List 7 Rectifier (Fig. 30)

*3.21 The List 7 rectifier employs germanium rectifiers and a ferro-resonant circuit to obtain the desired regulation. This rectifier is electrically interchangeable with the List 4 but provides 50% greater output at 48 volts (6 amperes instead of 4).

Detailed Information for the New Rectifiers

*3.22 The detailed information for the new rectifiers is covered in Table B of this addendum.

*7.03 Add the following sentence:

Use a quick air drying cement, such as "Duco Household Cement" or "Formica Cement" or a suitable equivalent to fasten nameplate.

7.04 Change the Telephone Company status in Table A (page 23) from Present Standard to Manufacture Discontinued for the KS-5740, List 1 and List 2 rectifiers.

7.05 Change the Telephone Company status in Table B (page 25) from Present Standard to Manufacture Discontinued for the KS-15620, List 3 rectifier.

7.06 Change the code number for the fuses in Table E (page 29) from MTH-5 to MDX-5 for the KS-5928, List 4 rectifier and from HKP-EL to a 5 ampere straight fuse for the KS-5928, List 3 rectifier.

TABLE B (Continued from Section P31.101)

Rectifiers Equipped with Automatic Voltage Regulation

Rectifier	Tel. Co. Status	Notes	Fig. No.	AC Input			DC Output		Rectifying Unit	Approx. Dimensions			Weight
				Volts	Freq.	Watts	Volts	Amps.		Width	Height	Depth	
KS5928-L6	Present Standard	2	27	115	60	140	130	0.8	Germanium	16″	6″	7″	28
KS15620-L4	MD	1	28	115	60	325	48	4.0	Selenium	19″	10″	12-1/2″	100
KS15620-L6	Present Standard	1	29	115	60	300	48	4.0	Selenium	19″	10-1/2″	8″	53
KS15620-L7	Present Standard	1	30	115	60	390	48	6.0	Germanium	19″	8-1/2″	11-1/2″	72

Note 1: Arranged for relay rack mounting.
Note 2: Mounted in portable cabinet.

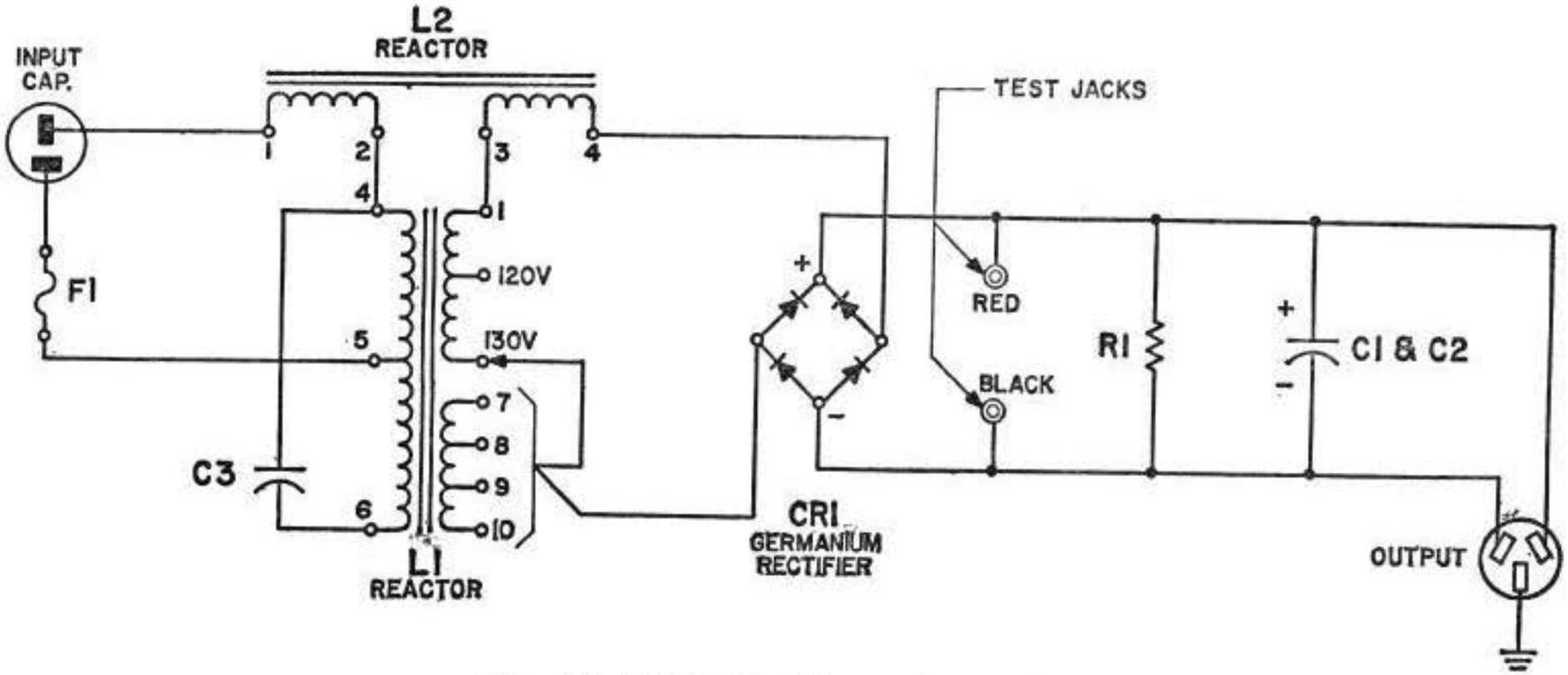

Fig. 27—KS-5928—List 6 Rectifier

Note 1: Terminals 7, 8, 9 and 10 of the reactor are used by the manufacturer and shall not be changed in the field.

Note 2: Protective Fuse Bussman MDL2.

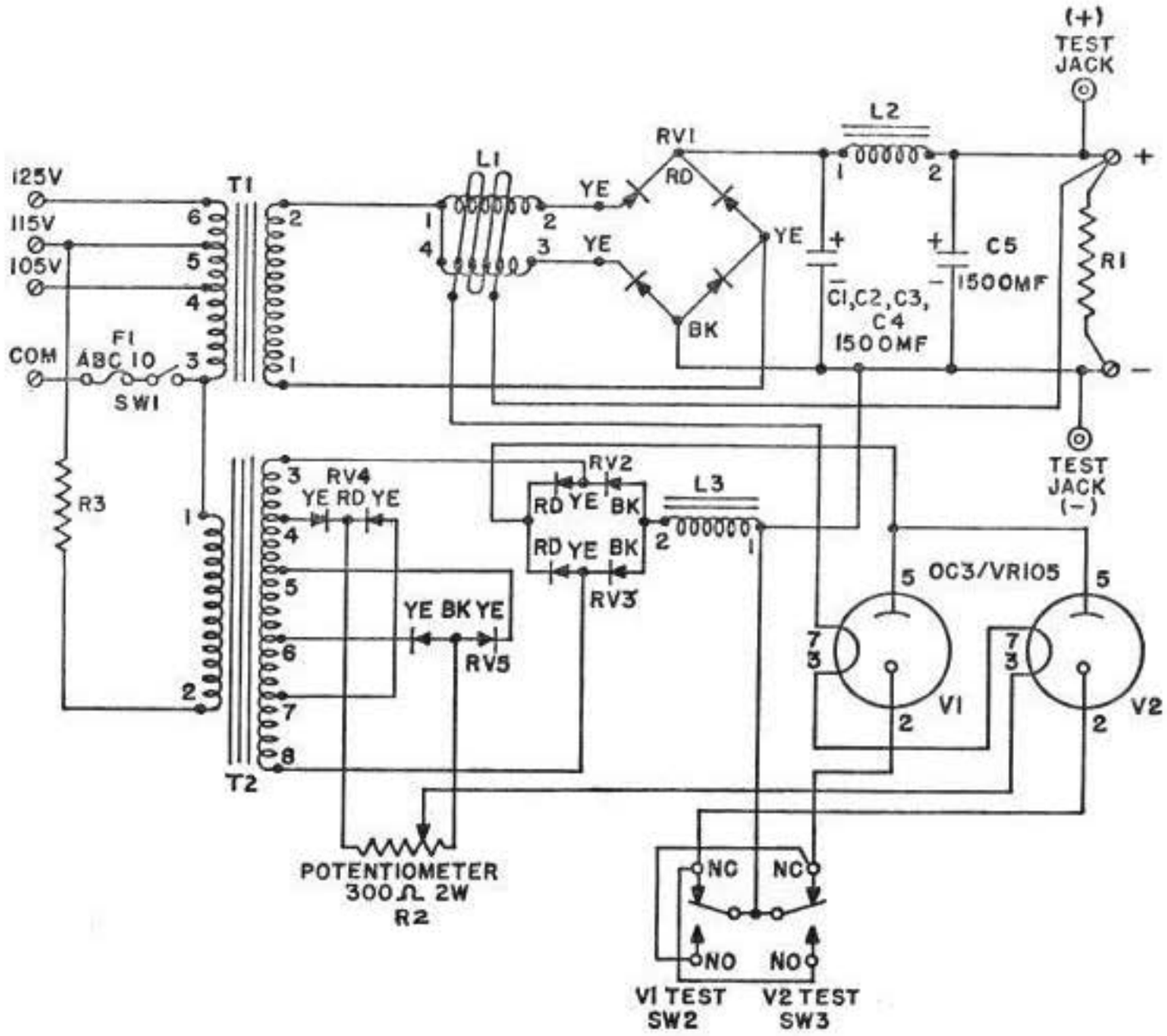

Fig. 28—KS-15620—List 4 Rectifier

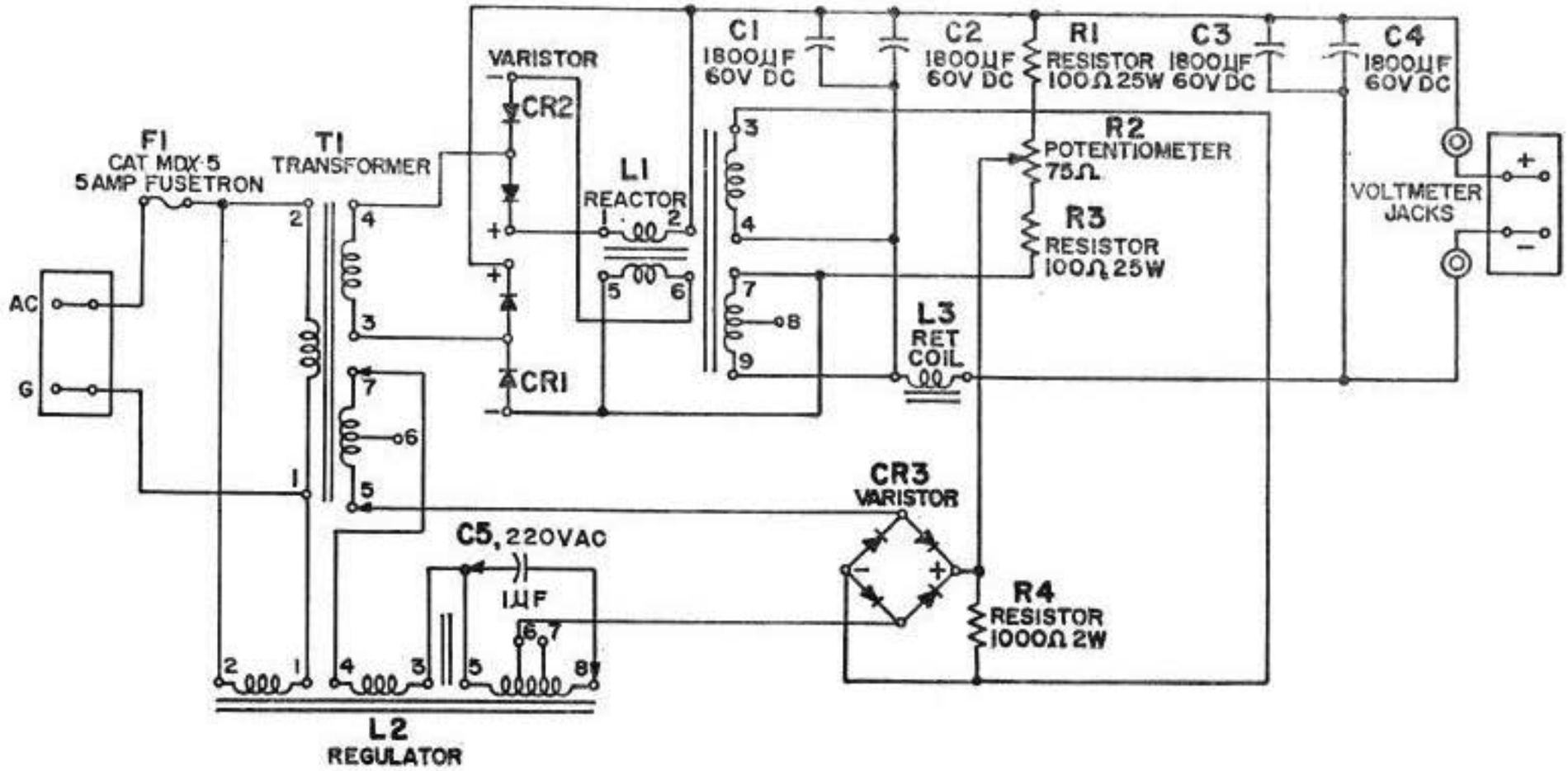

Fig. 29—KS-15620—List 6 Rectifier

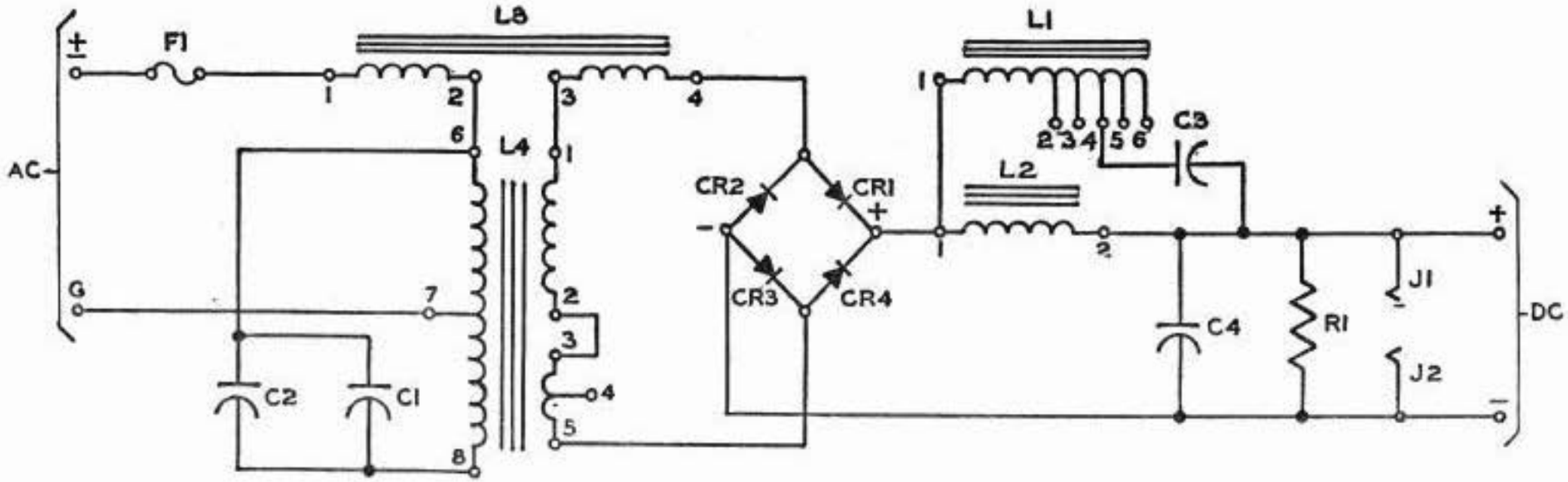

Fig. 30—KS-15620—List 7 Rectifier

Note 1: Terminals 2, 3, 4, 5 and 6 of LI are for manufacturer's use only.

Note 2: Protective Fuse is a Bussman Co. MDX5.