

## RECORDER CONNECTORS

### 50 TYPE AND ASSOCIATED KS-16730, LIST 1

#### MAINTENANCE

##### 1. GENERAL

1.01 The information in this section was previously shown in C43.171.01. This section is now being issued to place the maintenance information in the appropriate section. Also, minor corrections have been made and information added.

##### 2. MAINTENANCE

2.01 Power for the recorder connector is furnished and controlled by the voice recorder to which it is connected.

**THINK** Remove power plug from the voice recorder before removing the cover or doing any work on the recorder connector.

2.02 The Telephone Company should not perform any maintenance on the voice recorder, connecting cable, or plug. These troubles should be referred to the customer.

2.03 Schematic drawings (Fig. 1 through 5) are included as an aid to maintenance.

2.04 Tables A, B, and C give some of the components of the KS-16730, List 1 recorder connector.

CHART 1

Trouble	Corrective Measures
Recorder will not run.	<ol style="list-style-type: none"> <li>1. Make certain power supply cord is plugged in securely.</li> <li>2. Make certain proper voltage is present at service outlet. If not, ask customer to arrange for restoration.</li> </ol>
Voice recorder runs but will not record. Telephone working.	<ol style="list-style-type: none"> <li>1. Remove Cannon plug of cable which connects recorder to recorder connector. Check continuity of leads furnishing power to recorder connector. If KS-16730, List 1 recorder connector is used, check continuity of both units (terminals 1 and 6 of receptacle on both units).</li> <li>2. Check for and replace defective electron tubes in 50 type.</li> <li>3. Check for defective amplifier on KS-16730, List 1 recorder connector. Replace defective amplifier.</li> </ol>
Recorder runs but will not record. Telephone not working.	<ol style="list-style-type: none"> <li>1. Turn off recorder. Check continuity of telephone circuit through telephone company apparatus. Use schematic drawings provided in this section.</li> </ol>

CHART 1 (cont)

Trouble	Corrective Measures
Excessive 60-cycle hum on recording.	<ol style="list-style-type: none"> <li>1. Disconnect voice recorder from recorder connector. If hum is still present, trouble is in recorder.</li> <li>2. Check and replace defective electron tubes in 50 type.</li> <li>3. Make certain a good ground is present at G terminal of 50-type recorder connector.</li> </ol>
Noise other than 60-cycle hum.	<ol style="list-style-type: none"> <li>1. On 50A and 50AA recorder connectors make certain that white transformer shield wire is on R1 terminal of TS1.</li> <li>2. Straighten all bent pins on electron tubes.</li> <li>3. Check tube sockets for good contact with pins of electron tube.</li> <li>4. Make certain plug-in amplifier is seated properly.</li> <li>5. Check and replace defective electron tubes.</li> </ol>
Initial warning tone too loud or duration too long.	<ol style="list-style-type: none"> <li>1. Make certain recorder connector has been modified. Modified 50A and 50AA have letter M stamped in aluminum ink on the phenolfiber plate to the left of the terminal block. Modified 50B recorder connector has a 5-point star stamped after the code.</li> </ol>

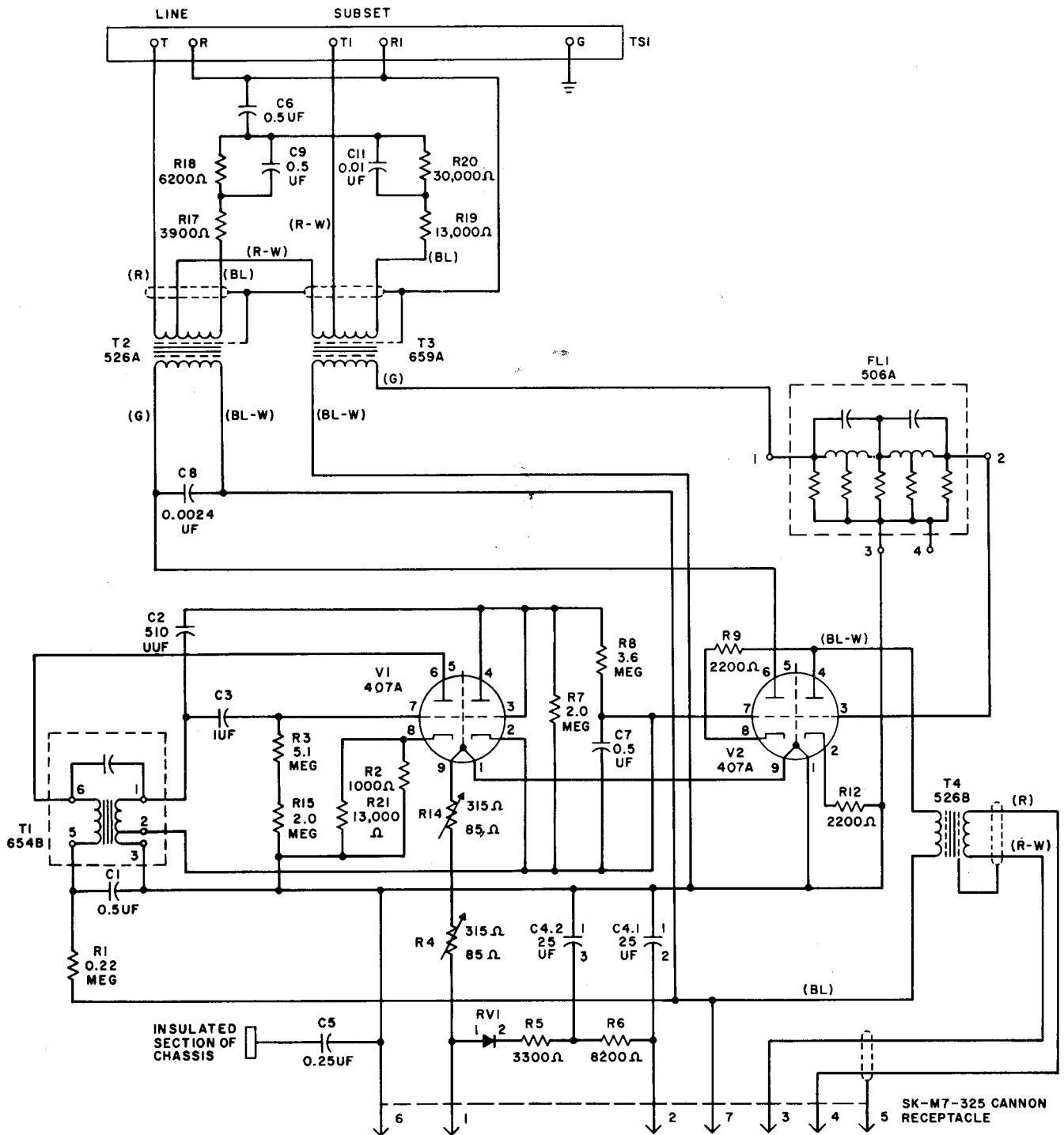


Fig. 1 - 50A Recorder Connector Schematic

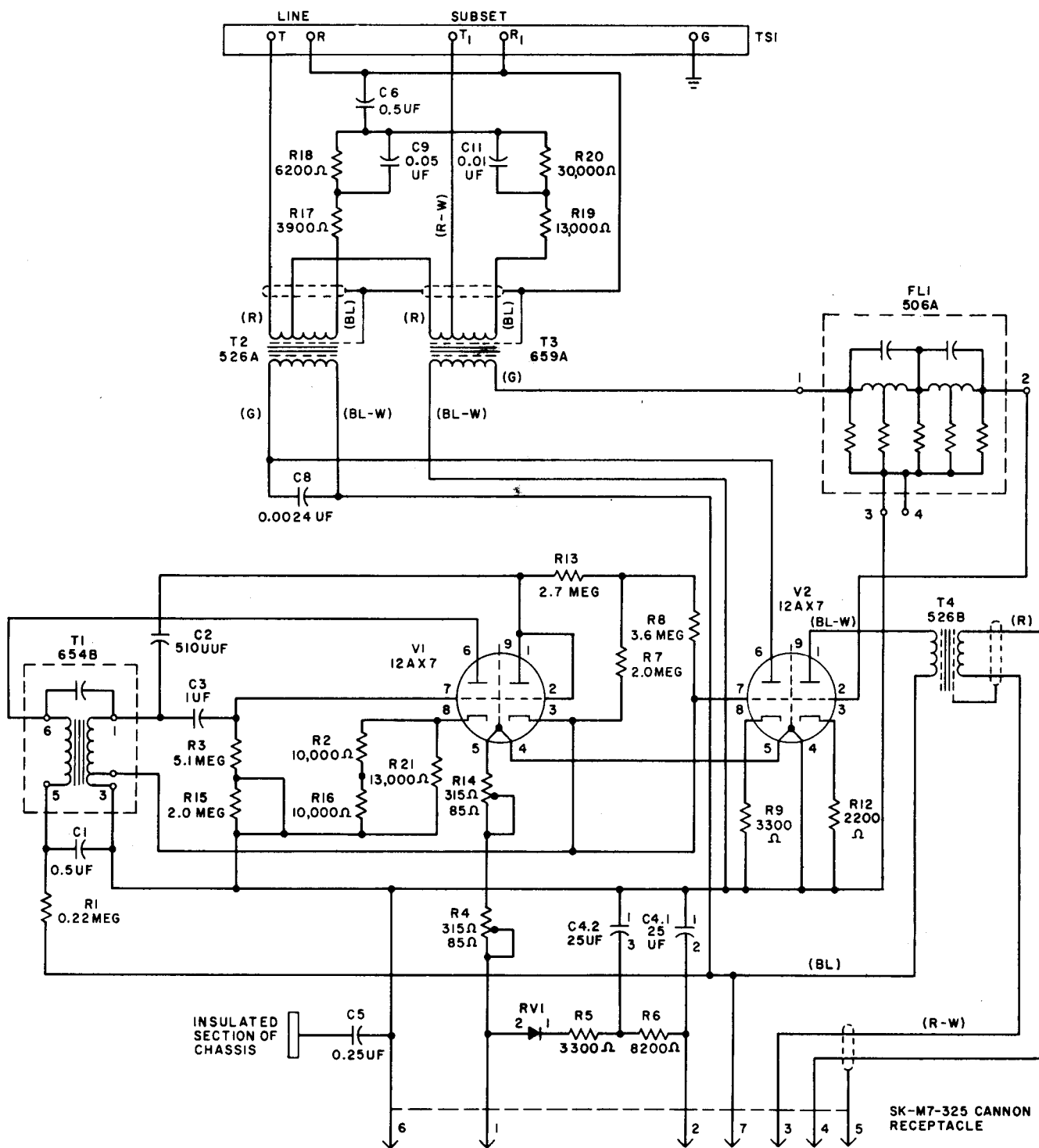


Fig. 2 - 50AA Recorder Connector Schematic

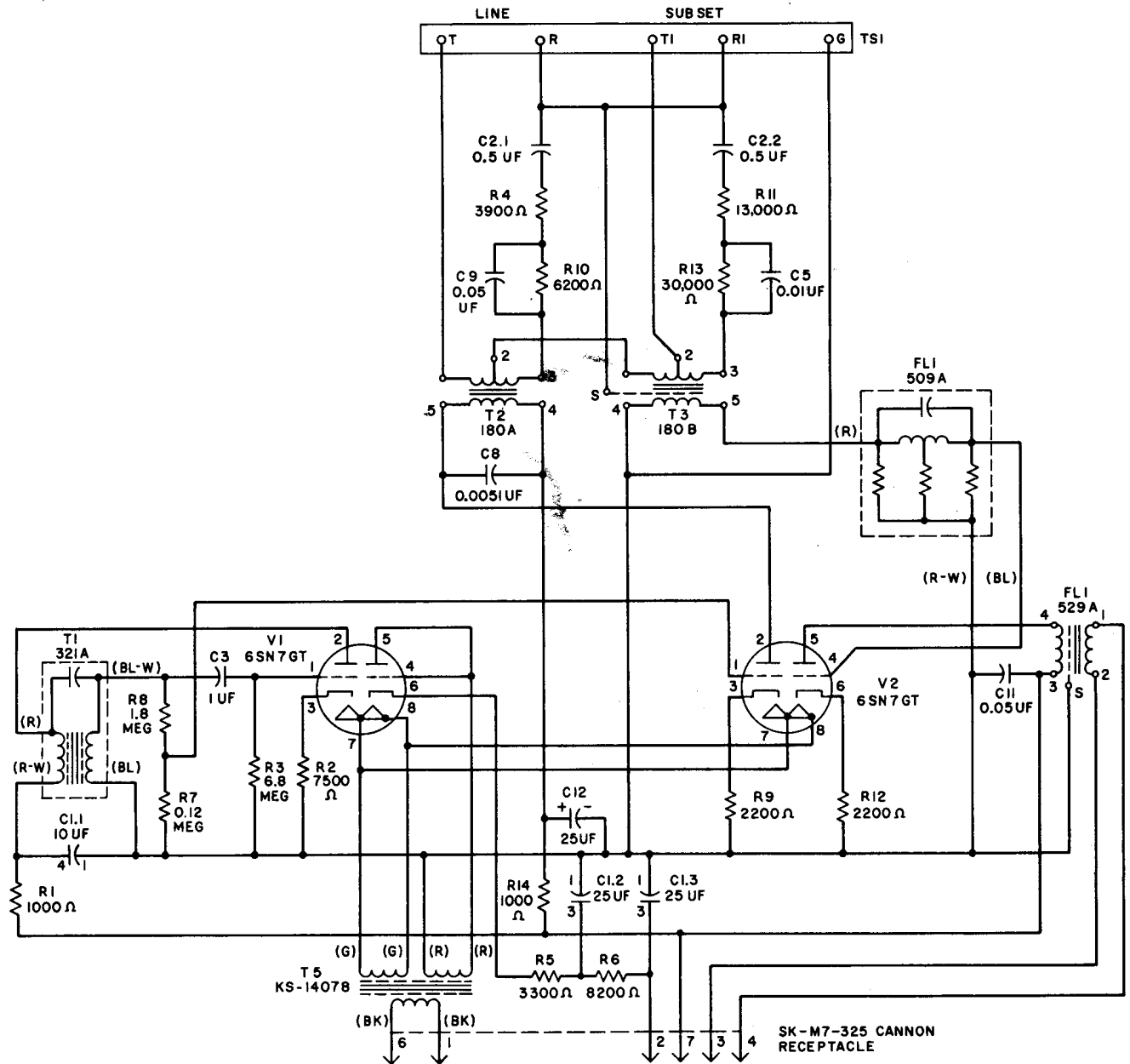
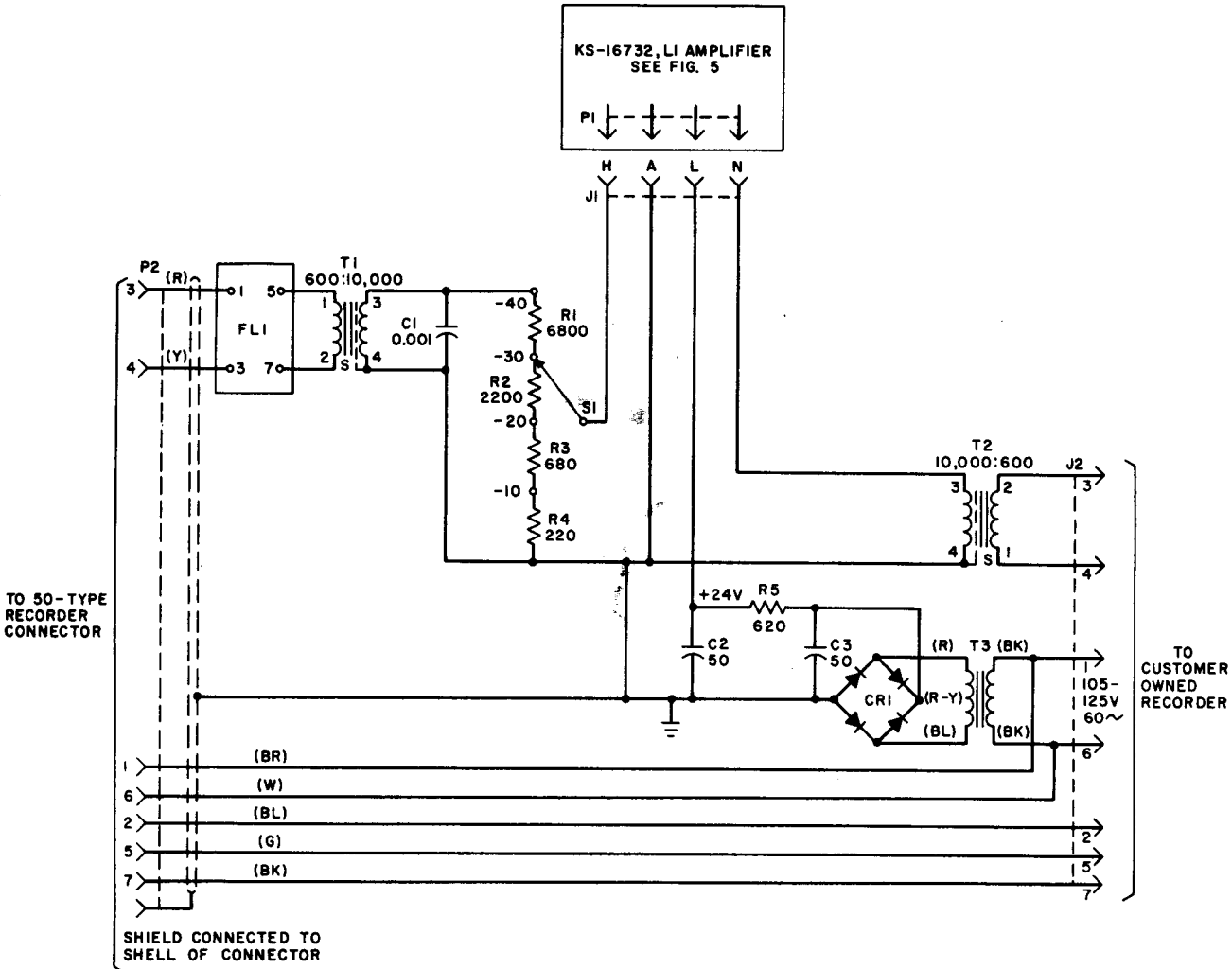


Fig. 3 - 50B Recorder Connector Schematic

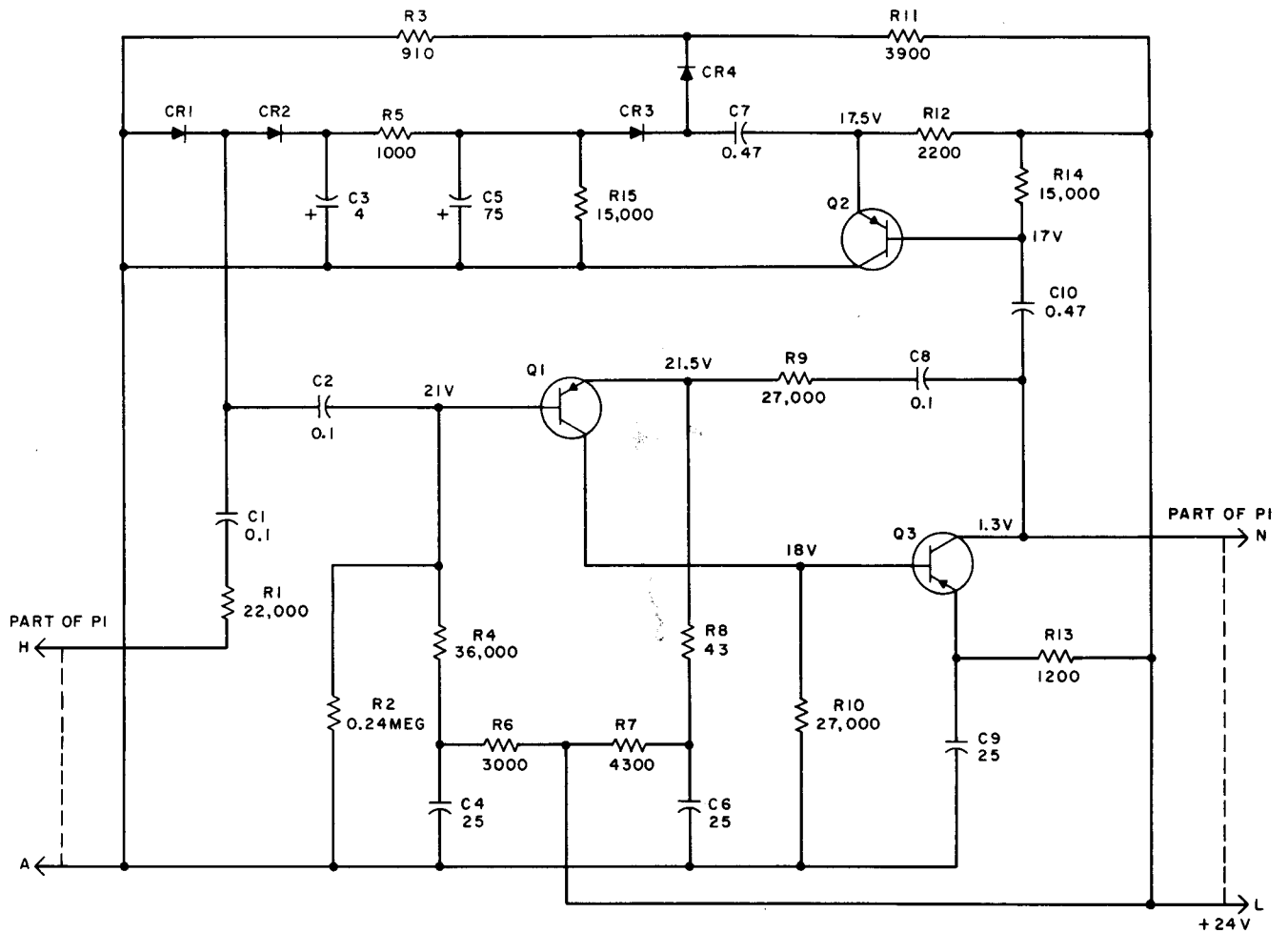


Note 1: Unless otherwise specified, resistance values are in ohms, capacitance in microfarads.

TABLE A

FL1	FILTER, NO. 17294
T1	TRANSFORMER, 25360
S1	SWITCH, 3215J
P2	PLUG, SK-M7-21C-1/2
J2	RECEPTACLE, SK-M7-325
CR1	RECTIFIER STACK, SK-15731, L1
T2	TRANSFORMER 25630

Fig. 4 - KS-16730, List 1 Recorder Connector Schematic



Note 1: Unless otherwise specified, resistance values are in ohms, capacitance values are in microfarads.

TABLE B

Q1, Q2, AND Q3	SEE TABLE C
CR1 AND CR2	DIODE, 1N461
CR3 AND CR4	DIODE, 400A
P1	CONNECTOR, KS-16345, L1

TABLE C

	TRANSISTORS		
	GE	TUNGSOL	WECO
Q1 Q2, AND Q3	2N43	2N461	12B

Fig. 5 - KS-16732, List 1 Amplifier Schematic