

## 50-TYPE RECORDER CONNECTOR

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distributing house stock will be modified on a Class A basis. Bell System Repair Specifications are being reissued to specify the change in all 50B recorder connectors returned for repair. Recorder connectors which have been modified will be identified by a 5-pointed star stamped beside the code marking on the base.

### 1. GENERAL

**1.001** This addendum is issued to describe the modifications made in the 50B recorder connector to reduce the level and the length of the initial warning tone produced when the recorder connector is first activated.

**1.002** The modifications consist of a change in the magnitude of resistor R1 and the inclusion of a delay circuit. This is shown in Fig. 5A and described in the following paragraphs which should be added to Parts 2 and 3 of the section.

### 2. DESCRIPTION

**2.061** *Modified 50B Recorder Connector:* All 50B recorder connectors in factory and

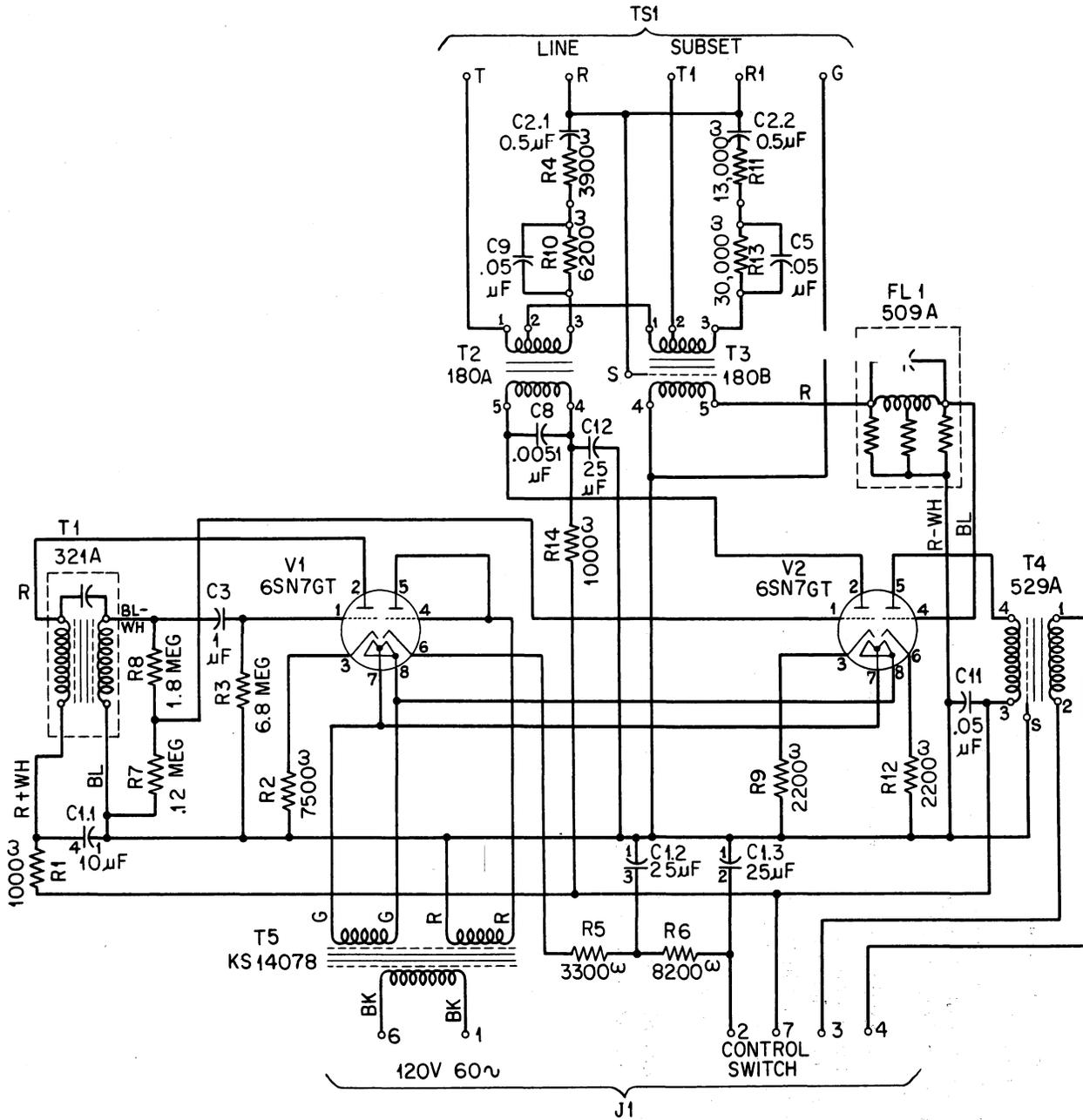
### 3. TRANSMISSION CHARACTERISTICS AND CIRCUIT DESCRIPTION

#### **3.121** *Modified 50B Recorder Connector:*

Arrangements have been made to modify all 50B recorder connectors to reduce the level and length of the initial warning tone. The modifications consist of the following:

- (a) A change in the magnitude of resistor R1 from 0.1 megohm to 1000 ohms.
- (b) The inclusion of a delay circuit (resistor R14 and capacitor C12) in the plate voltage supply circuit of the warning tone amplifier section of vacuum tube V2.

**3.122** Figure 5A shows the circuit of the modified 50B recorder connector.



OPERATING VOLTAGES		
BETWEEN POINT LISTED BELOW AND TERMINAL "G"	VOLTAGES	
	D.C. MEASURED WITH VOLTMETER HAVING AN IMPEDANCE OF 10 MEG. OHMS	A.C. MEASURED WITH VOLTMETER HAVING AN IMPEDANCE OF MINIMUM .1 MEG
JUNCTION OF R1 & R-WH LEAD FROM T1	82	77*
TERMINAL 2 OF V1	82	77*
TERMINAL 3 OF V1	0	5.5*
TERMINAL 4 OF V1		120
TERMINAL 6 OF V1	415	
JUNCTION OF R5 & R6	105	
TERMINAL 2 OF J1	84	
TERMINAL 3 OF V2	3.1	
TERMINAL 6 OF V2	3.2	
TERMINAL 2 OF V2	83.5	
TERMINAL 5 OF V2	83.5	
TERMINAL 4 OF V1	VOLTAGE VARIES BETWEEN -35 & -6.5 DURING 45 SECOND TIMING INTERVAL	

\* VOLTAGES OBTAINED WHEN OSCILLATOR IS ACTIVE

NOTE: THE ABOVE VOLTAGES ARE TYPICAL AVERAGE VALUES OBTAINED WITH TERMINALS 2 & 7 OF J1 STRAPPED AND 120 VOLTS, 60 CYCLES, APPLIED TO TERMINALS 1 & 6

Fig. 5A—Modified 50B Recorder Connector