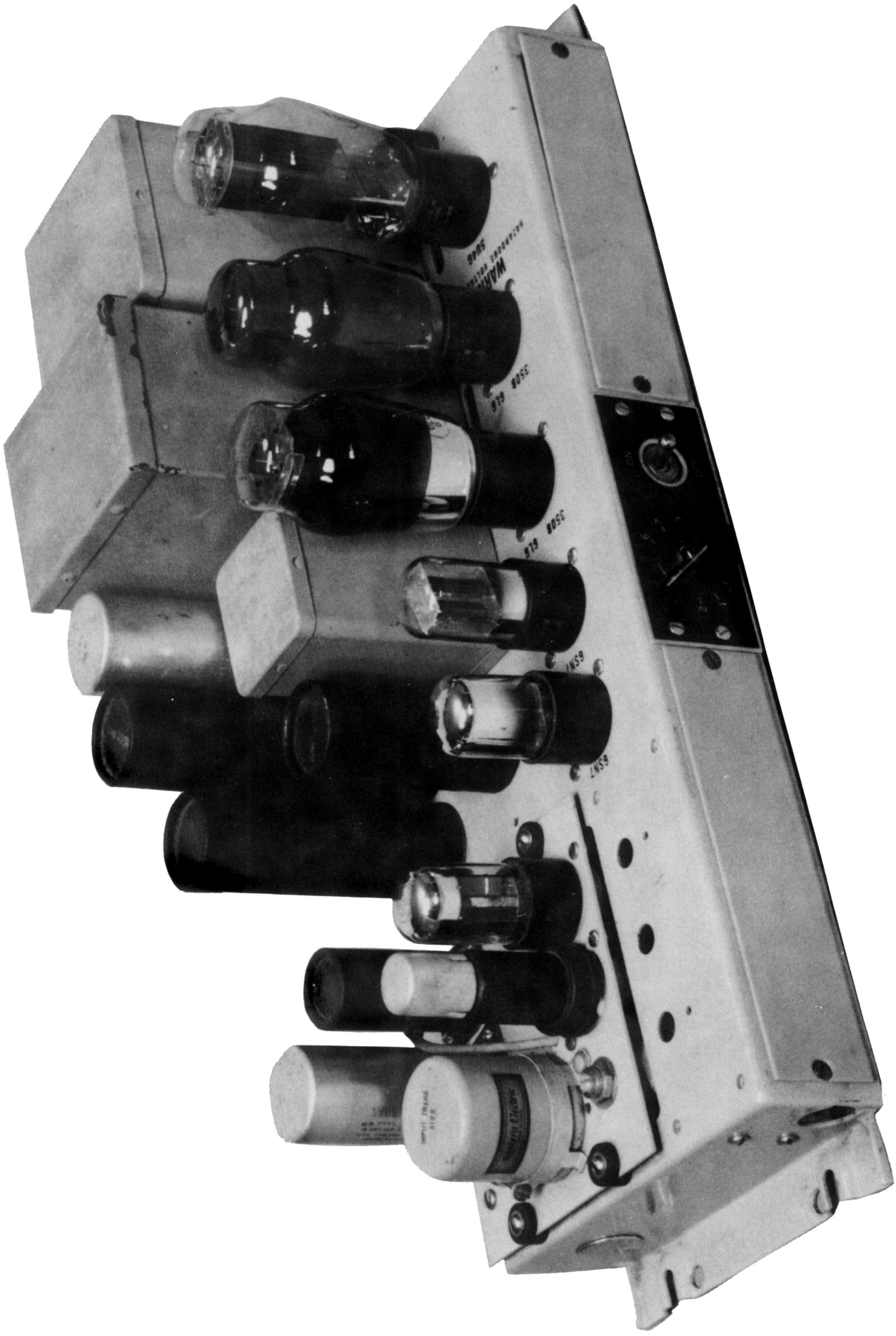
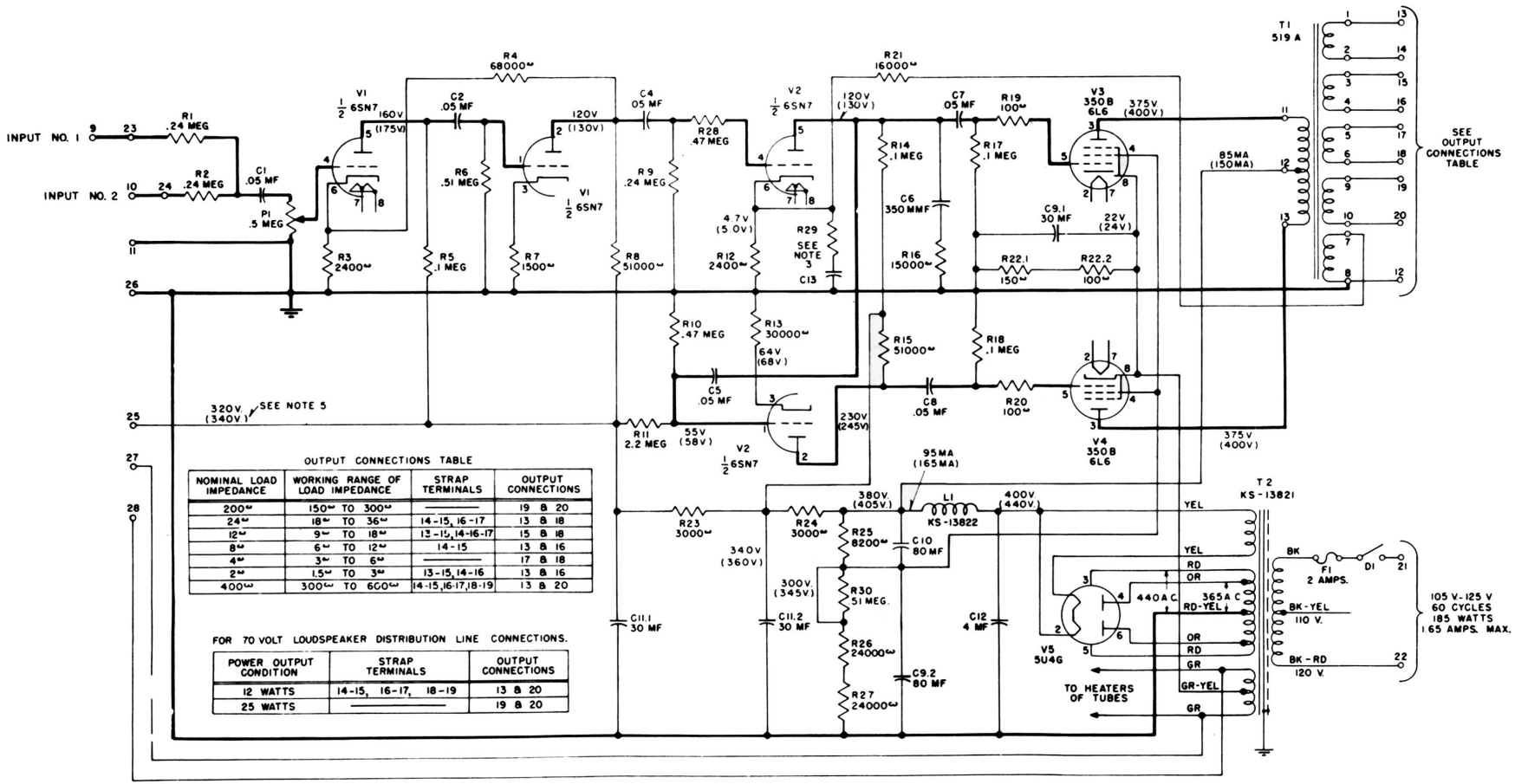
*Western Electric Company*

# No. 142-A AMPLIFIER



NOTES

1. CIRCUIT SHOWN FOR 12 WATTS POWER OUTPUT
2. FOR 25 WATTS OUTPUT THE FOLLOWING CHANGES ARE NECESSARY
   - A USE 350B TUBES
   - B SHORT R22.2
   - C AT V5 SOCKET INTERCHANGE RED AND ORANGE WIRES AT TERMINALS 3 & 4 AND AT TERMINALS 5 & 6
3. SELECTION OF THESE VALUES MAY BE NECESSARY TO MEET REQUIREMENTS. R29 IS 820Ω OR GREATER AND C13 IS 0.1MF OR LESS.
4. THE VOLTAGES AND CURRENTS SHOWN REPRESENT TYPICAL VALUES FOR A QUIESCENT CONDITION WITH AVERAGE TUBES AND OPERATED FROM 60 ~ 120 VOLT POWER SOURCE. THE D.C. VOLTAGES SHOULD BE MEASURED WITH A VOLTMETER OF 1.1 MEGOHM D.C. RESISTANCE. VOLTAGES ARE MEASURED FROM POINTS SHOWN TO TERMINAL 26 AND SHOULD BE WITHIN ±20%.
5. THE NUMBERS IN PARENTHESES ARE THE VALUES FOR THE 25 WATT CONDITION.




OUTPUT CONNECTIONS TABLE

| NOMINAL LOAD IMPEDANCE | WORKING RANGE OF LOAD IMPEDANCE | STRAP TERMINALS | OUTPUT CONNECTIONS |
|---|---|---|---|
| 200Ω | 150Ω TO 300Ω | —— | 19 & 20 |
| 24Ω | 18Ω TO 36Ω | 14-15, 16-17 | 13 & 18 |
| 12Ω | 9Ω TO 18Ω | 13-15, 14-16-17 | 15 & 18 |
| 8Ω | 6Ω TO 12Ω | 14-15 | 13 & 16 |
| 4Ω | 3Ω TO 6Ω | —— | 17 & 18 |
| 2Ω | 1.5Ω TO 3Ω | 13-15, 14-16 | 13 & 16 |
| 400Ω | 300Ω TO 600Ω | 14-15, 16-17, 18-19 | 13 & 20 |

FOR 70 VOLT LOUDSPEAKER DISTRIBUTION LINE CONNECTIONS.

| POWER OUTPUT CONDITION | STRAP TERMINALS | OUTPUT CONNECTIONS |
|---|---|---|
| 12 WATTS | 14-15, 16-17, 18-19 | 13 & 20 |
| 25 WATTS | —— | 19 & 20 |

*Figure 1*—142A Amplifier Schematic