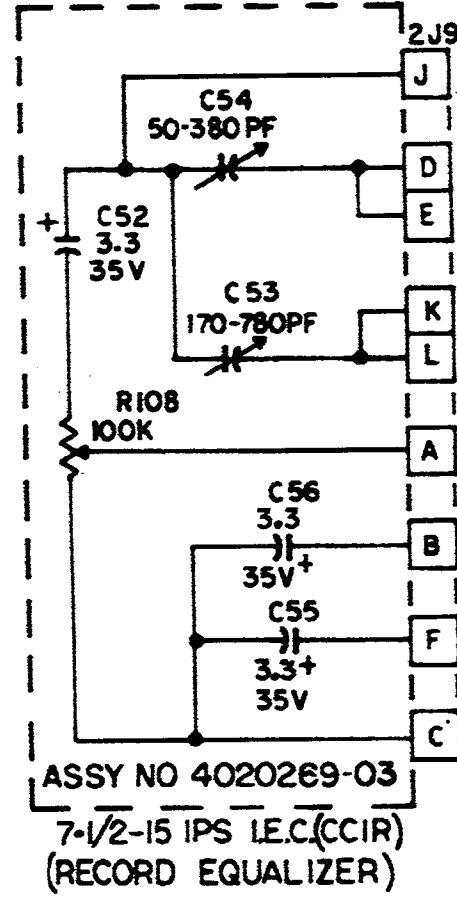
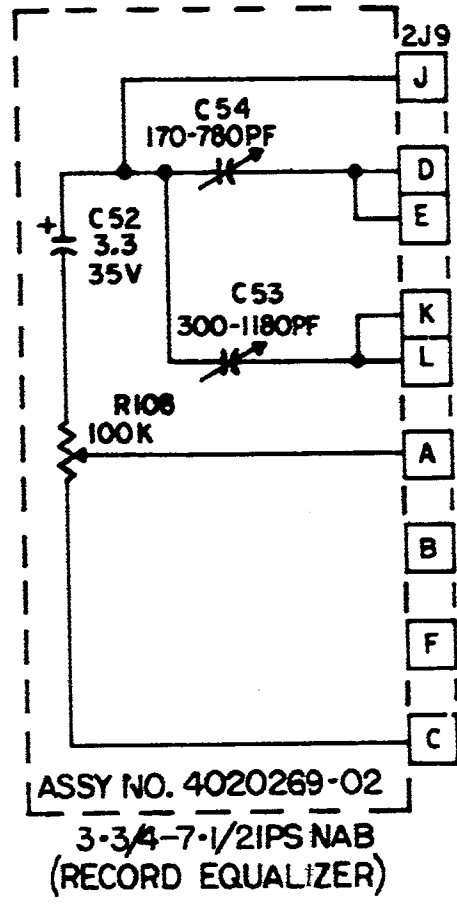
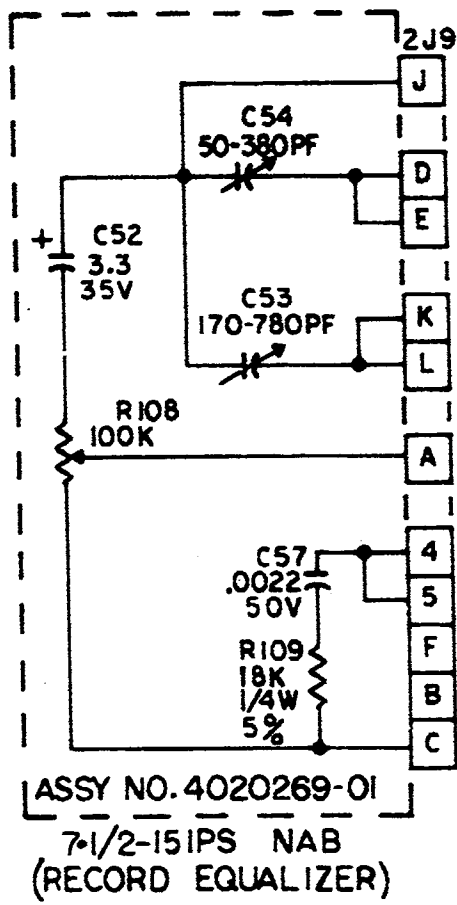


014698 = 2N3565
 014784 = 2N4416?

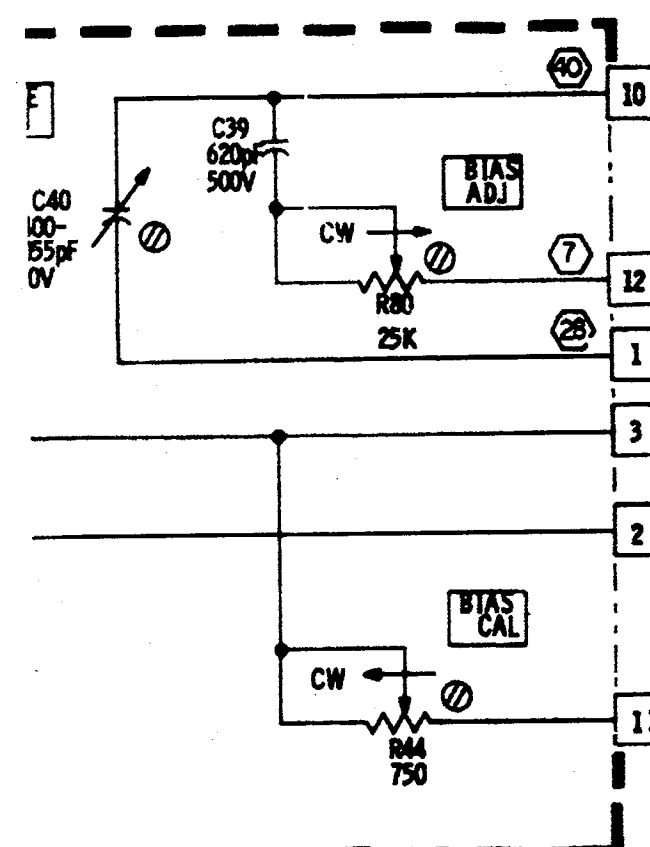
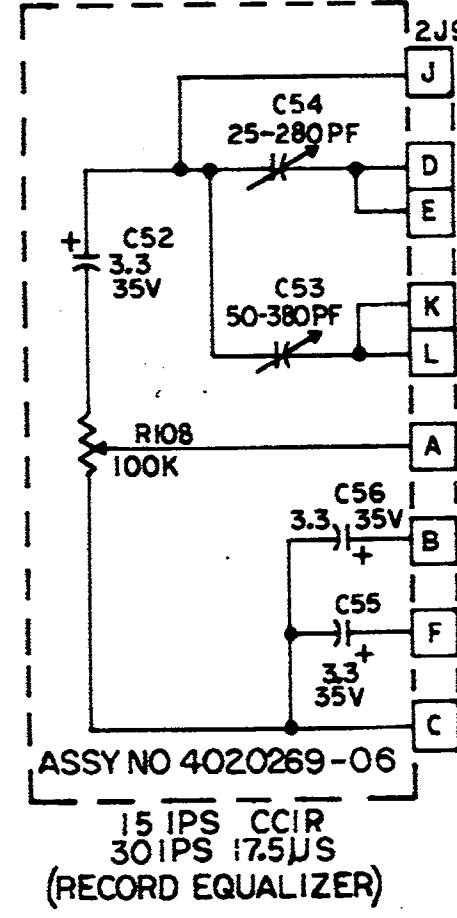
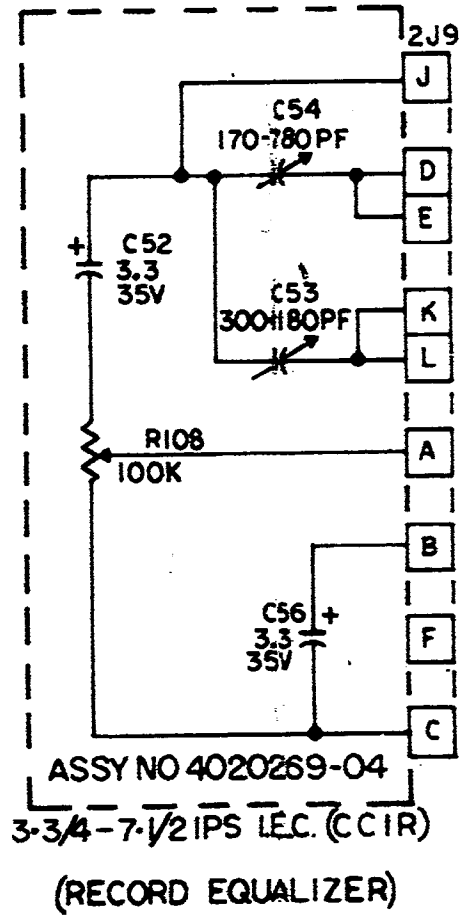
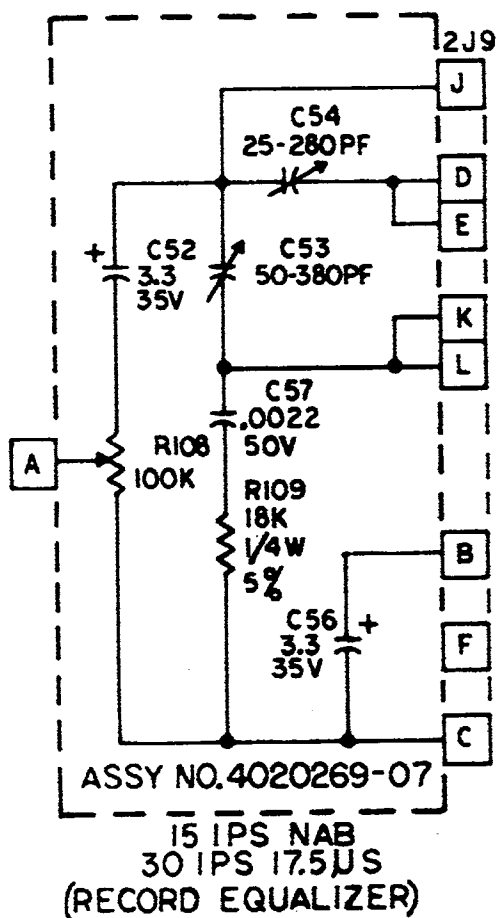
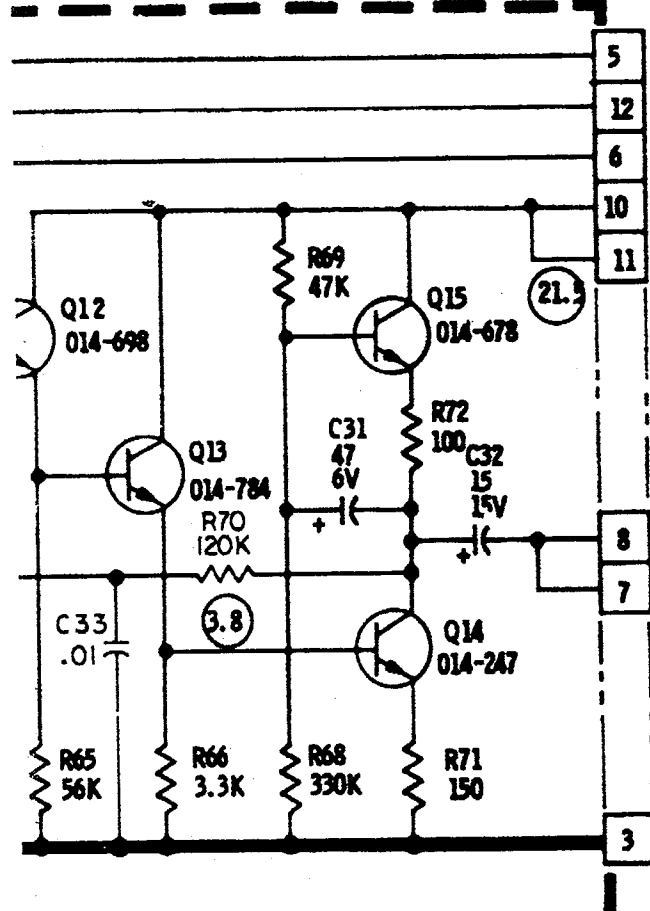


NOTES: UNLESS OTHERWISE SPECIFIED

1. CAPACITANCE VALUES ARE IN MICROFARADS
2. DIODES ARE TYPE 013-599.
3. .0047 FOR 4020270-01 EQUALIZER, 0033 FOR 4020270-02
4. RESISTANCE VALUES ARE IN OHMS 1/2W, 10%.
5. (XX) INDICATES VOLTS D.C. MEASURED WITH A 20,000 OHM/VOLT METER.
6. (ΔΔ) INDICATES VOLTS D.C. MEASURED WITH A HIGH IMPEDANCE VTVM.
7. (XX) INDICATES VOLTS R.M.S. MEASURED WITH A HIGH IMPEDANCE VTVM AT OPERATING LEVEL OF 700 Hz., +8VU OUT, 75 MIL TRACK HEADS.
8. (⊗) INDICATES VOLTS R.M.S. MEASURED WITH A HIGH IMPEDANCE VTVM AT BIAS FREQUENCY.
9. EQUALIZER 4020270-01 CAN BE ADJUSTED FOR 3 3/4 THRU 15 IPS, NAB OR CCIR. EQUALIZER 4020270-02 CAN BE ADJUSTED FOR 7 1/2 THRU 30 IPS, NAB OR CCIR.

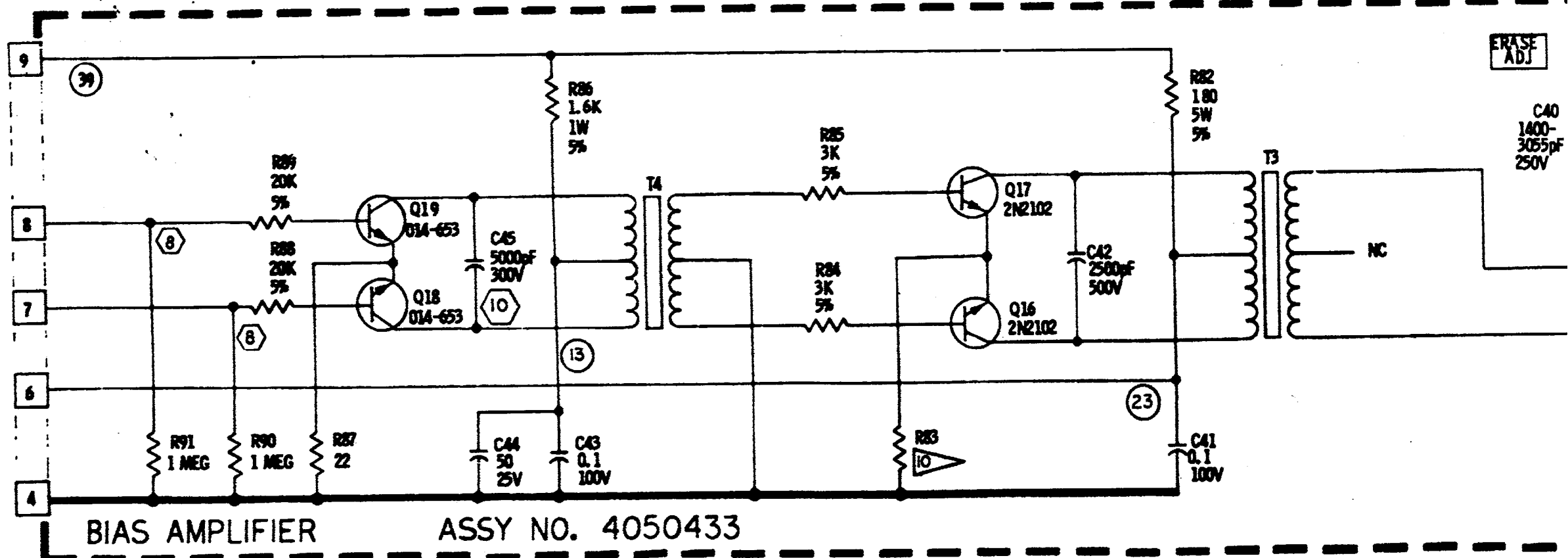
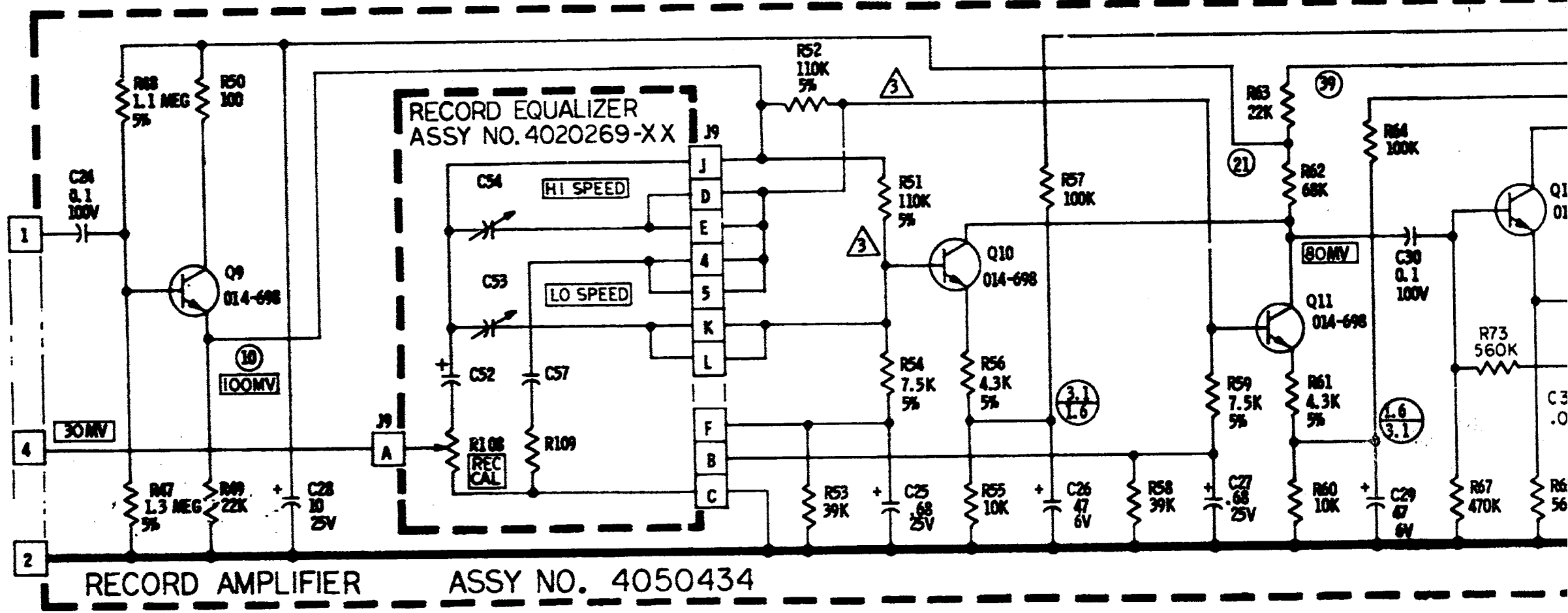
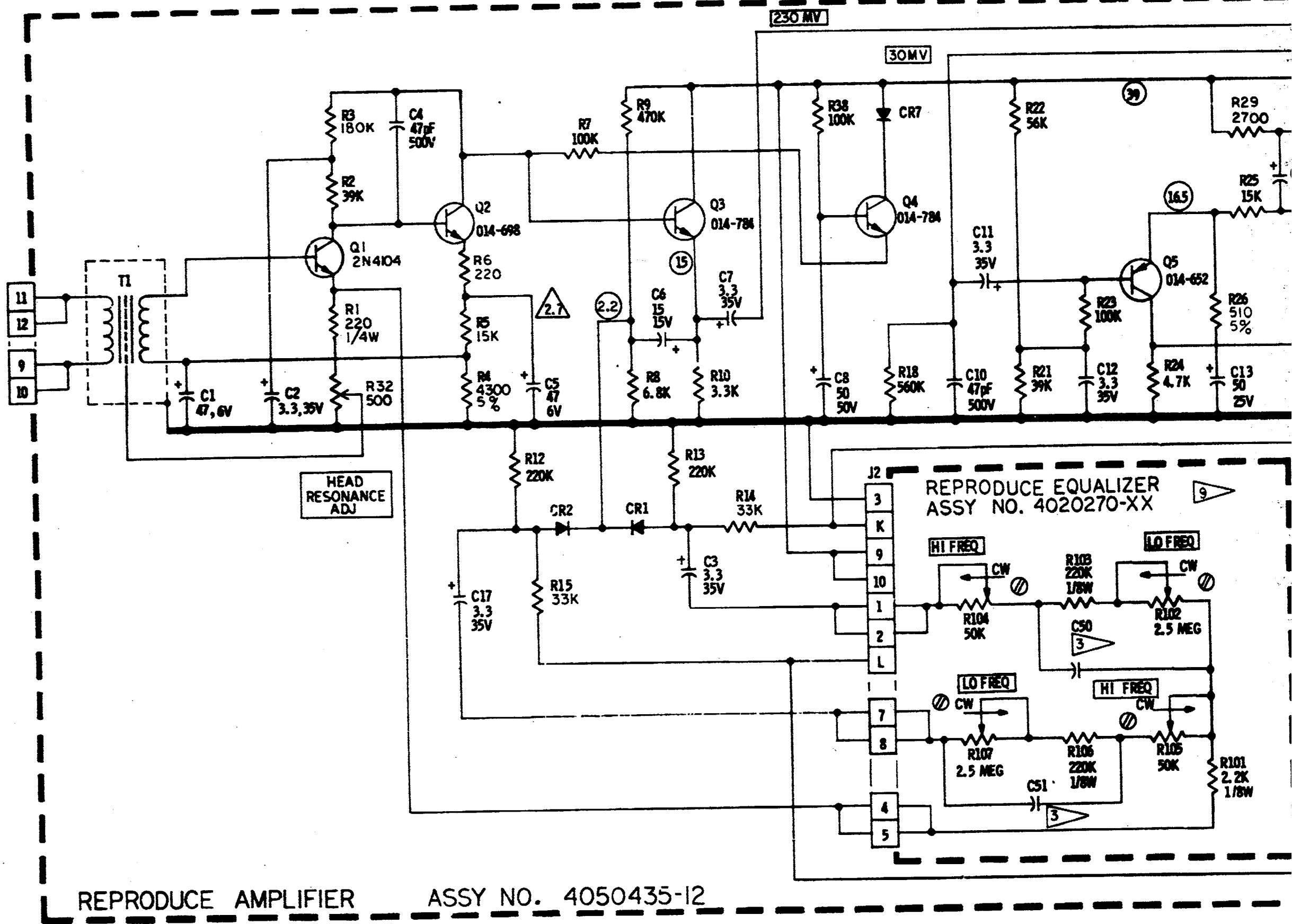
REF. DES.	AMPEX P/N	NEAREST COML. EQUIVALENT
CR1, CR2, CR7	013-599	1N914
Q14	014-247	2N2219
Q5	014-652	2N2906
Q18, Q19	014-653	2N2904
Q15	014-678	2N2219A
Q2, Q9-12	014-698	2N3117 OR 2N5088
Q3, 4, 13, 6	014-784	2N4946

10. 51Ω, 5% EXCEPT 180Ω, 10% FOR USE WITH 1/4 TRACK ERASE HEADS.



Schematic No. 4840249

Record, Reproduce and Bias Amplifiers



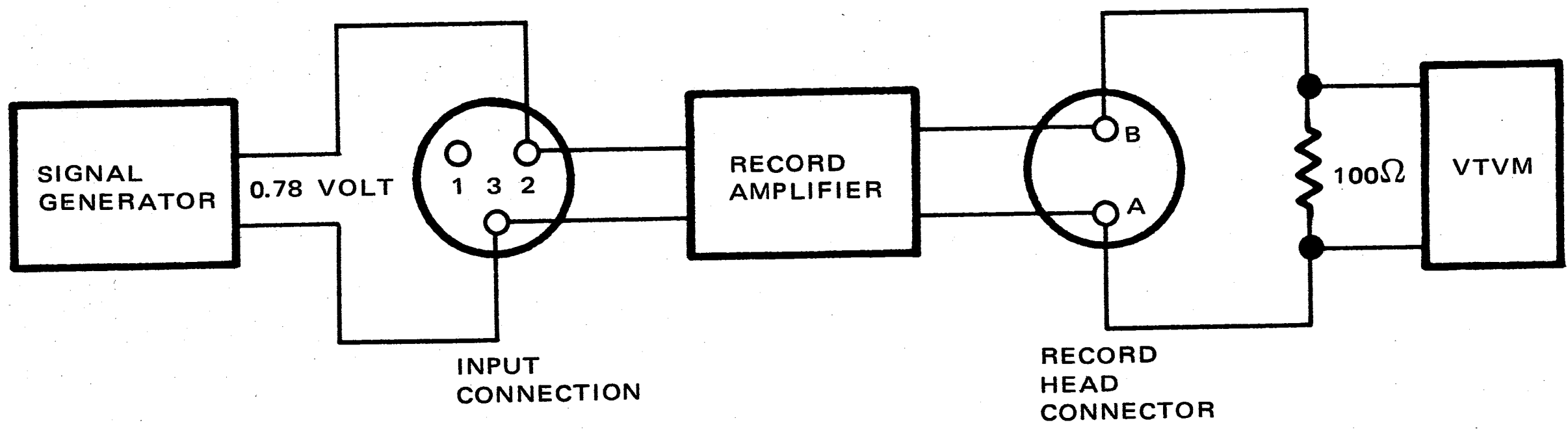


Figure 5-24. Troubleshooting Setup for Record Amplifier

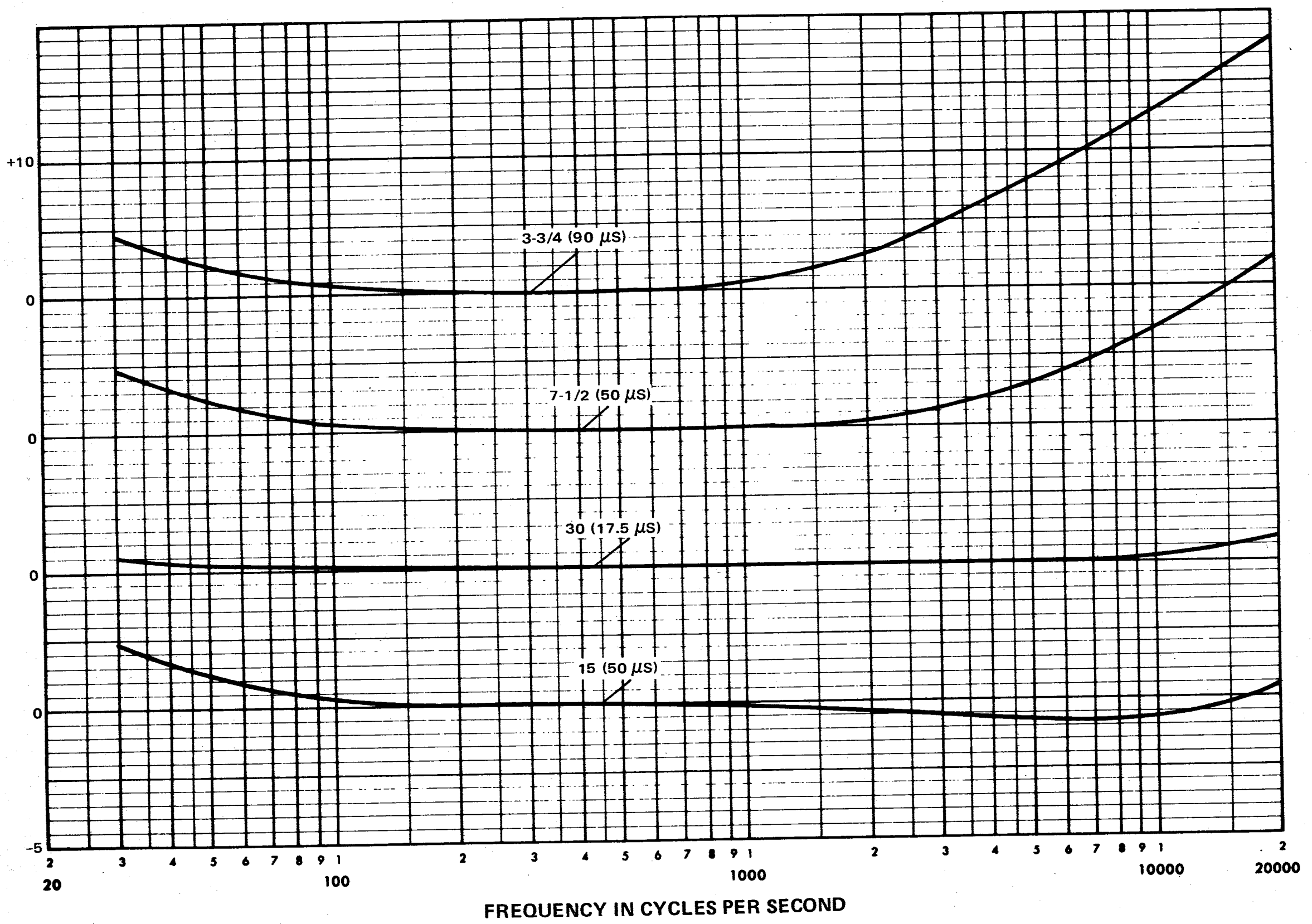


Figure 5-25. Record Current Response (Pre-emphasis Set for Flat Response)