

05-0138-10

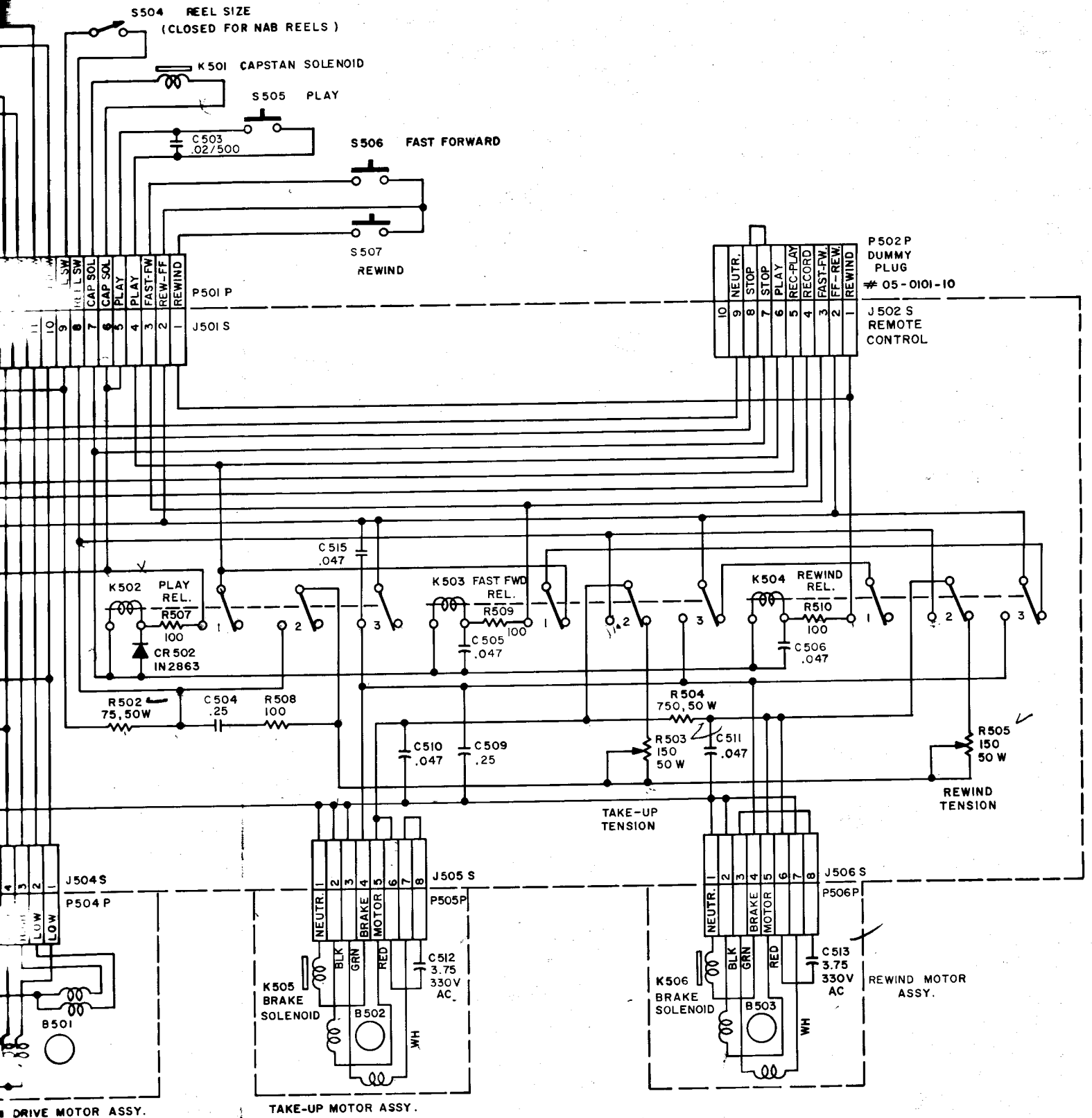
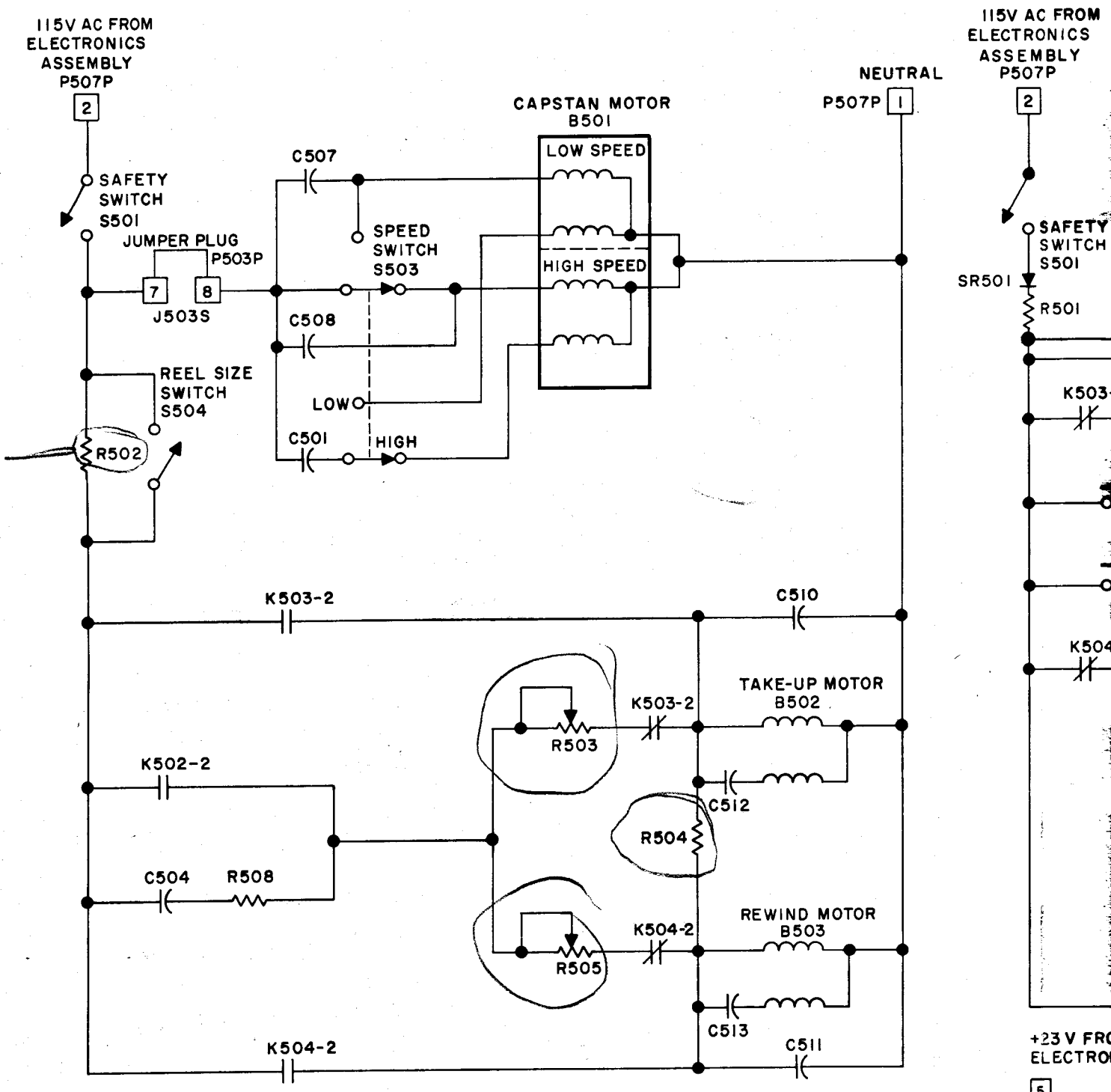


Fig. 7-1 Schematic Diagram, Tape Transport



RELAY CONTACTS

NORMALLY OPEN

NORMALLY CLOSED

CAPACITORS

A-C CONTROL CIRCUIT

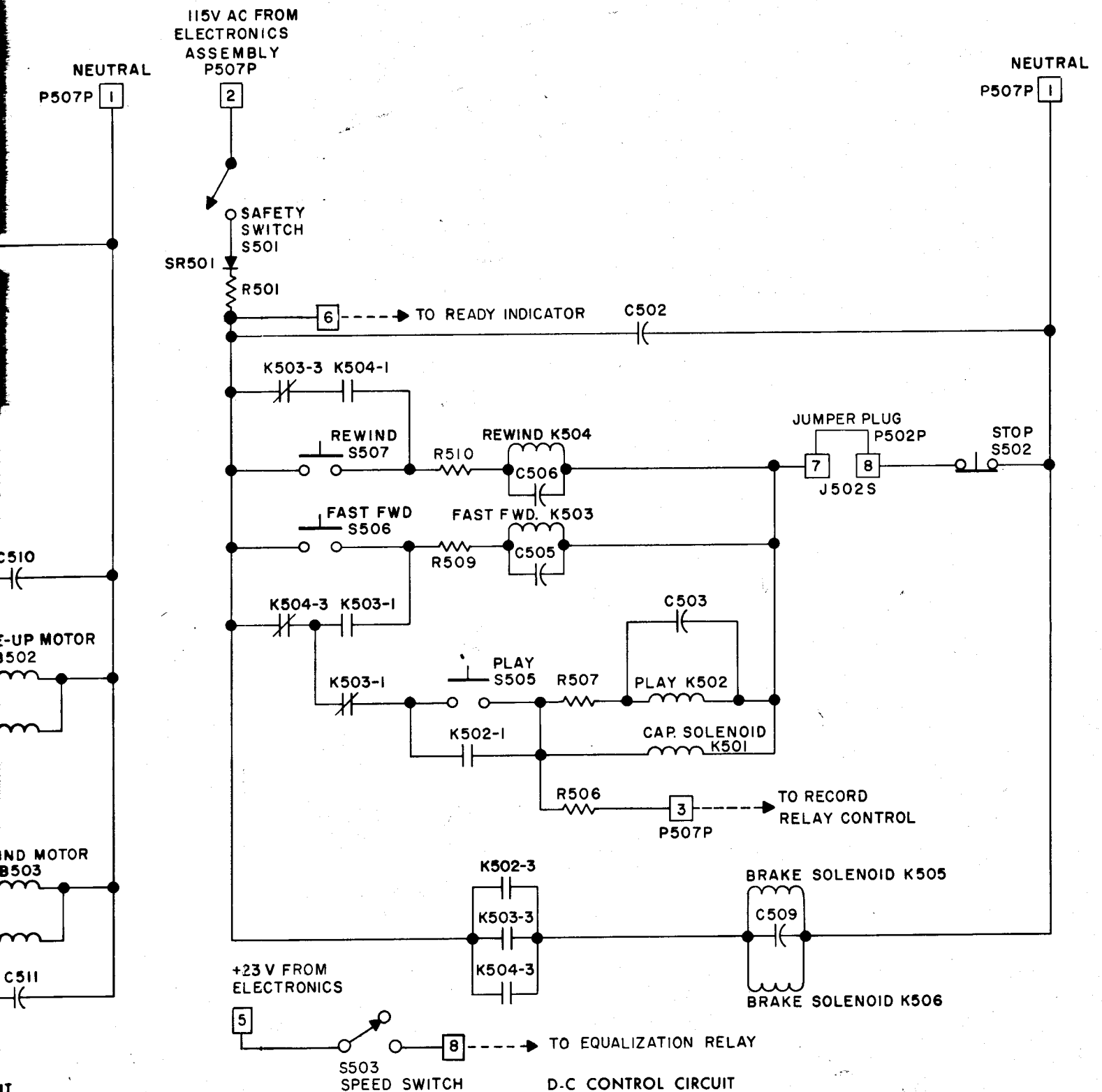
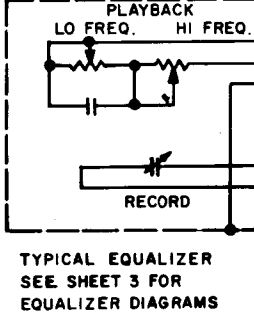
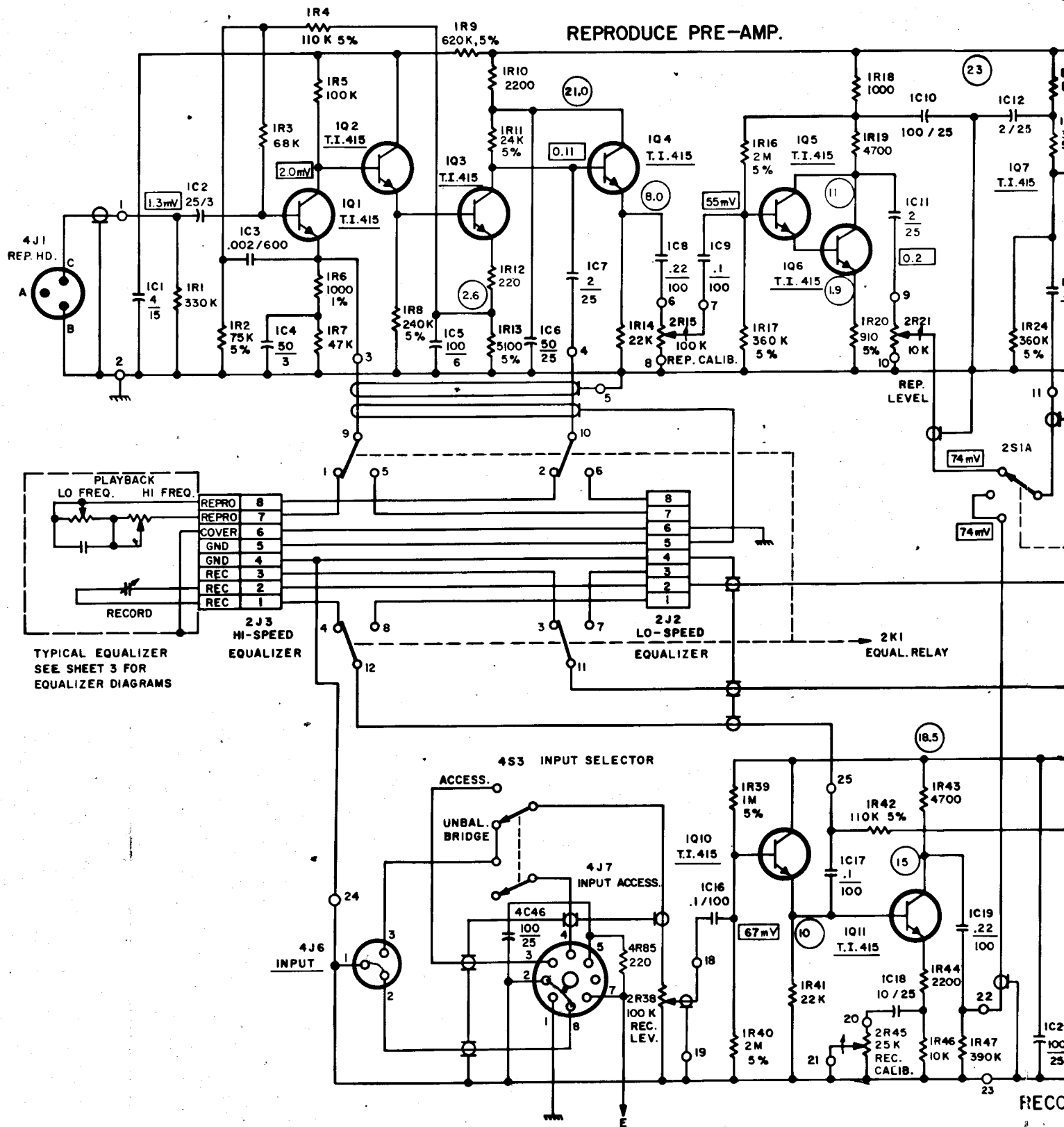


Fig. 7-2 Simplified Diagram, Tape Transport Controls

REPRODUCE PRE-AMP.



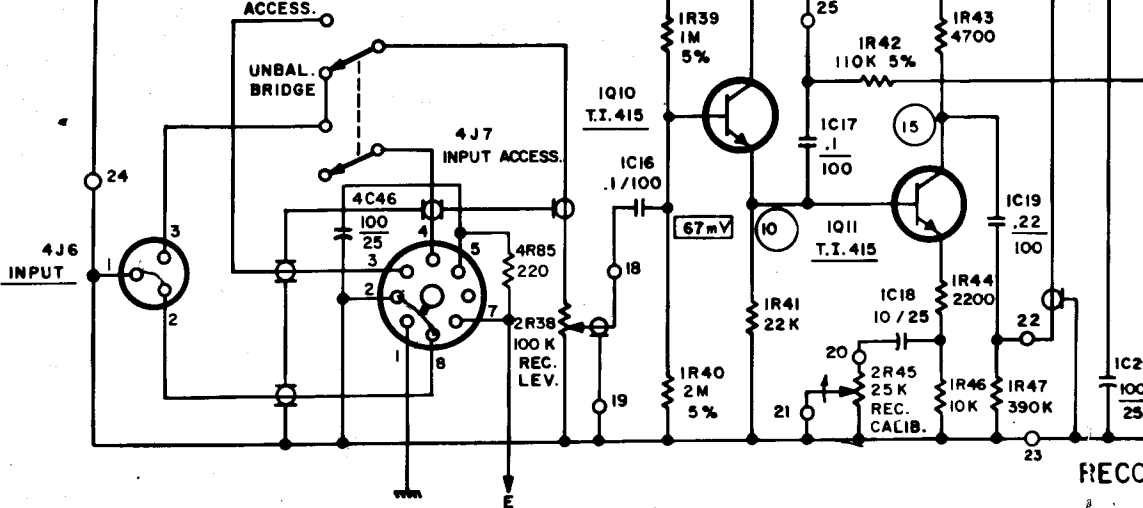
TYPICAL EQUALIZER
SEE SHEET 3 FOR
EQUALIZER DIAGRAMS

2J3
HI-SPEED
EQUALIZER

2J2
LO-SPEED
EQUALIZER

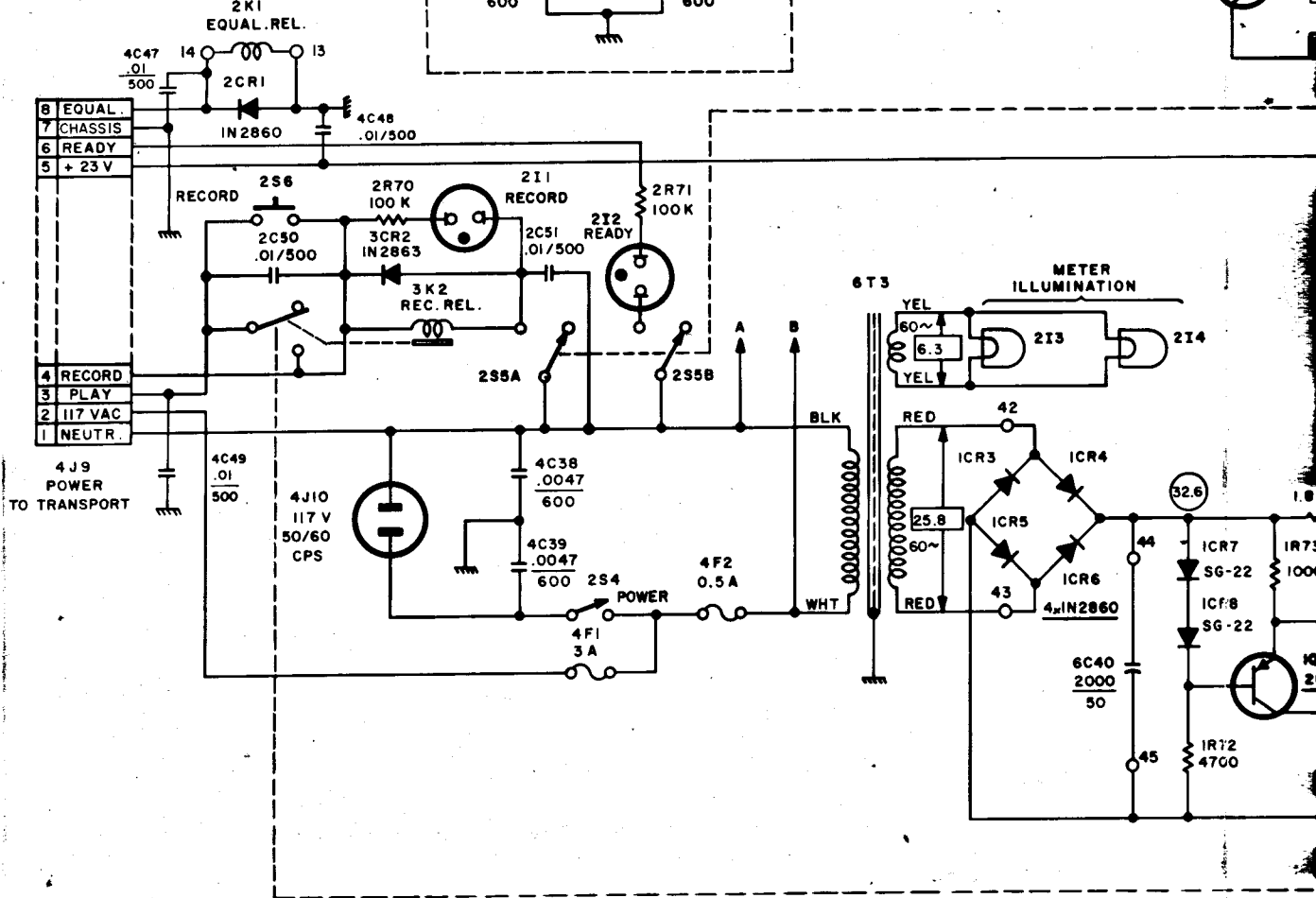
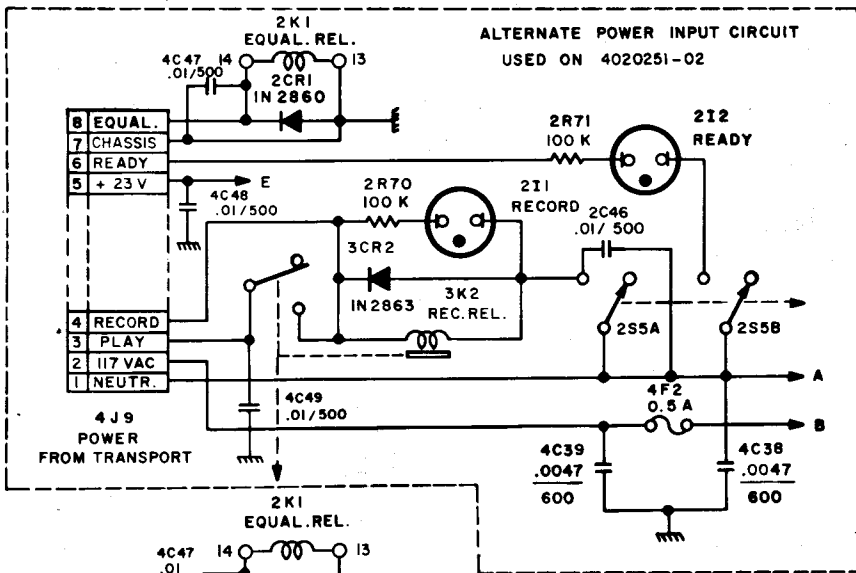
2K1
EQUAL.RELAY

4S3 INPUT SELECTOR



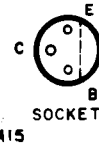
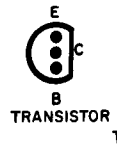
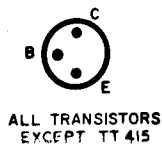
FOR NOTES SEE SHEET 3

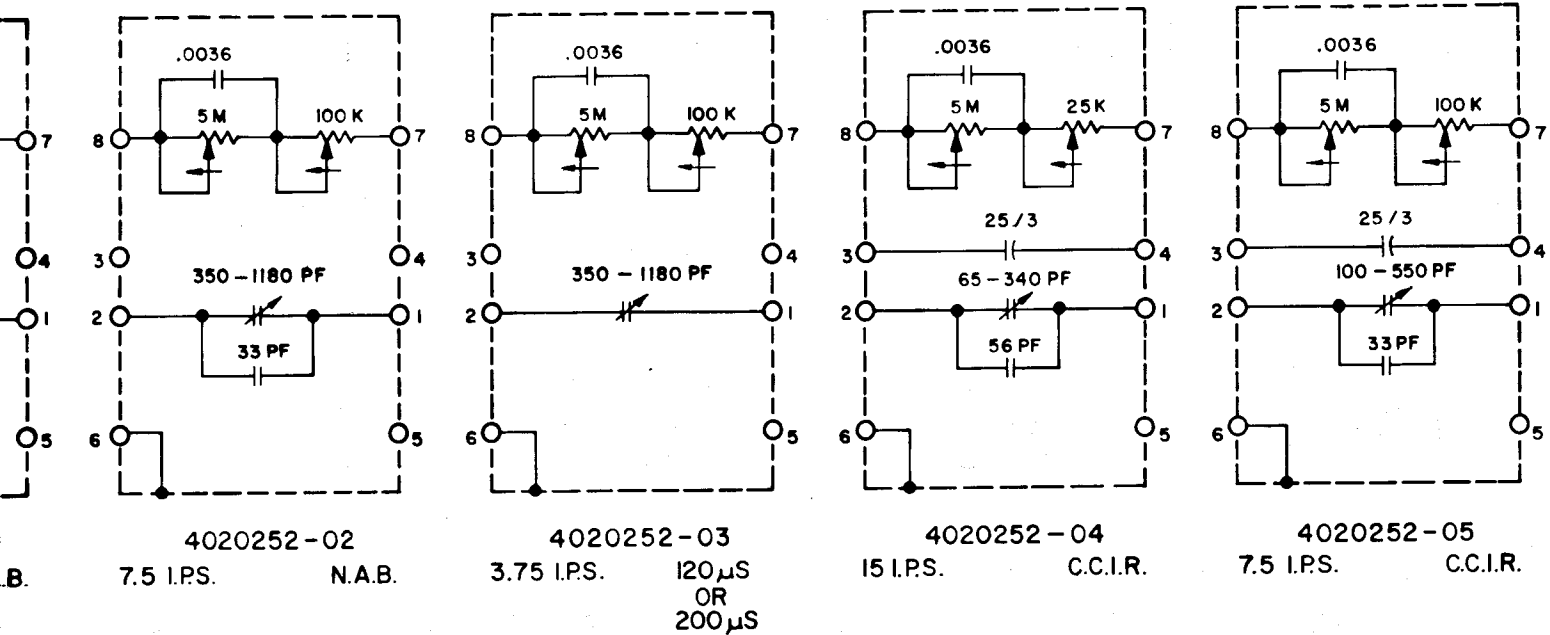
RECO



TRANSISTOR LEAD AND SOCKET DIAGRAMS (BOTTOM VIEW)

FOR NOTES SEE SHEET 3





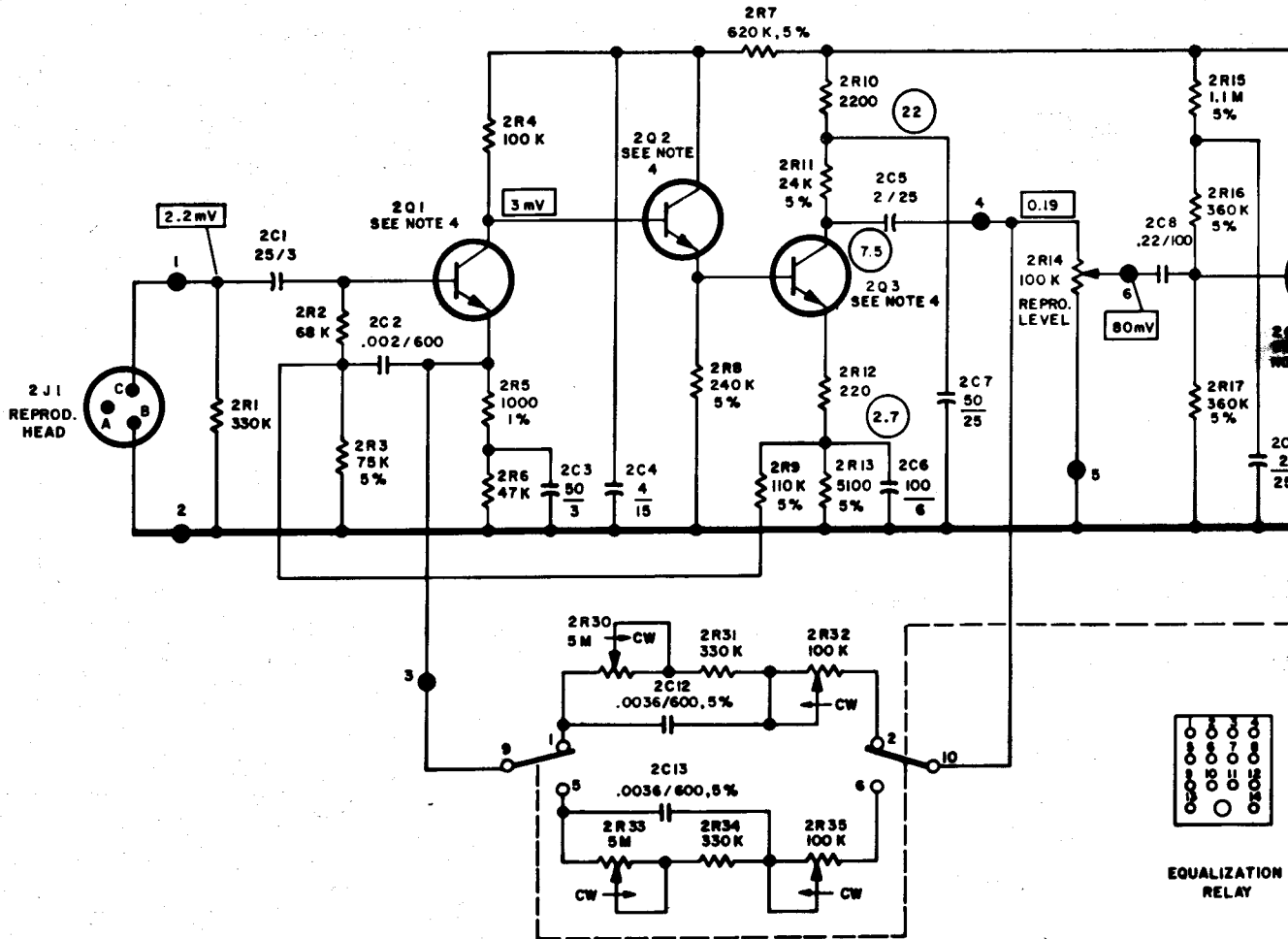
B.

EQUALIZER CONNECTOR

YED .

USE .

Fig. 7-5 Schematic Diagram, Record/Reproduce Electronics, Sheet 3 of 3

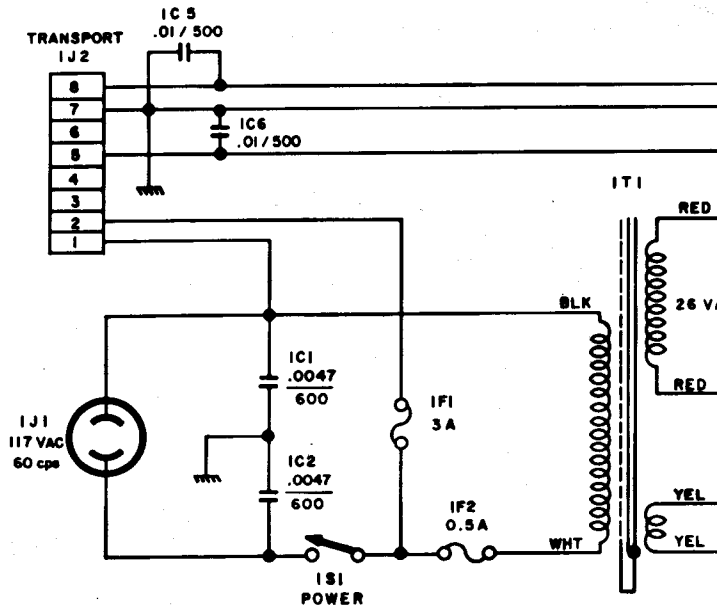
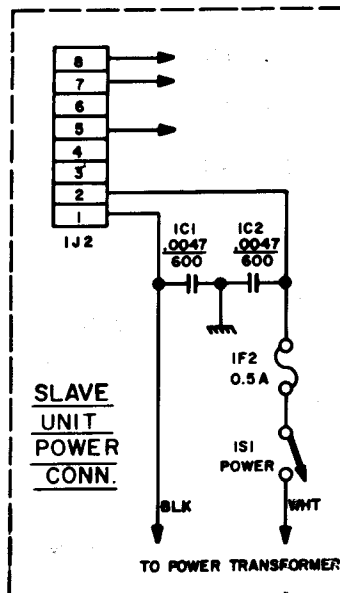


NOTES -

- 1 - ALL RESISTORS IN OHMS, 1/2 W, 10 % UNLESS OTHERWISE SPECIFIED.
- 2 - ALL CAPACITORS IN MFD, 10 % AT SPECIFIED VOLTAGE RATINGS.
- 3 - ● DENOTES TERMINALS ON ETCHED BOARD ASSEMBLY.
- 4 - TRANSISTORS 2N3707(T1415), 2N3391A, 2N3565 MAY BE USED.
- 5 - RELAY SHOWN DE-ENERGIZED (HI-SPEED).
- 6 - SIGNAL VOLTAGES MEASURED WITH 10 MΩ IMPEDANCE AC VOLT-METER - 500 CPS. OUTPUT VOLTAGE 2.0V TERMINATED.
- 7 - LINE FREQUENCY VOLTAGES MEASURED WITH 5000 Ω/V METER.
- 8 - DC VOLTAGES MEASURED WITH 20,000 Ω/V METER.

2.0 DENOTES SIGNAL VOLTAGE 2.0V

27 DENOTES DC VOLTAGE 27V



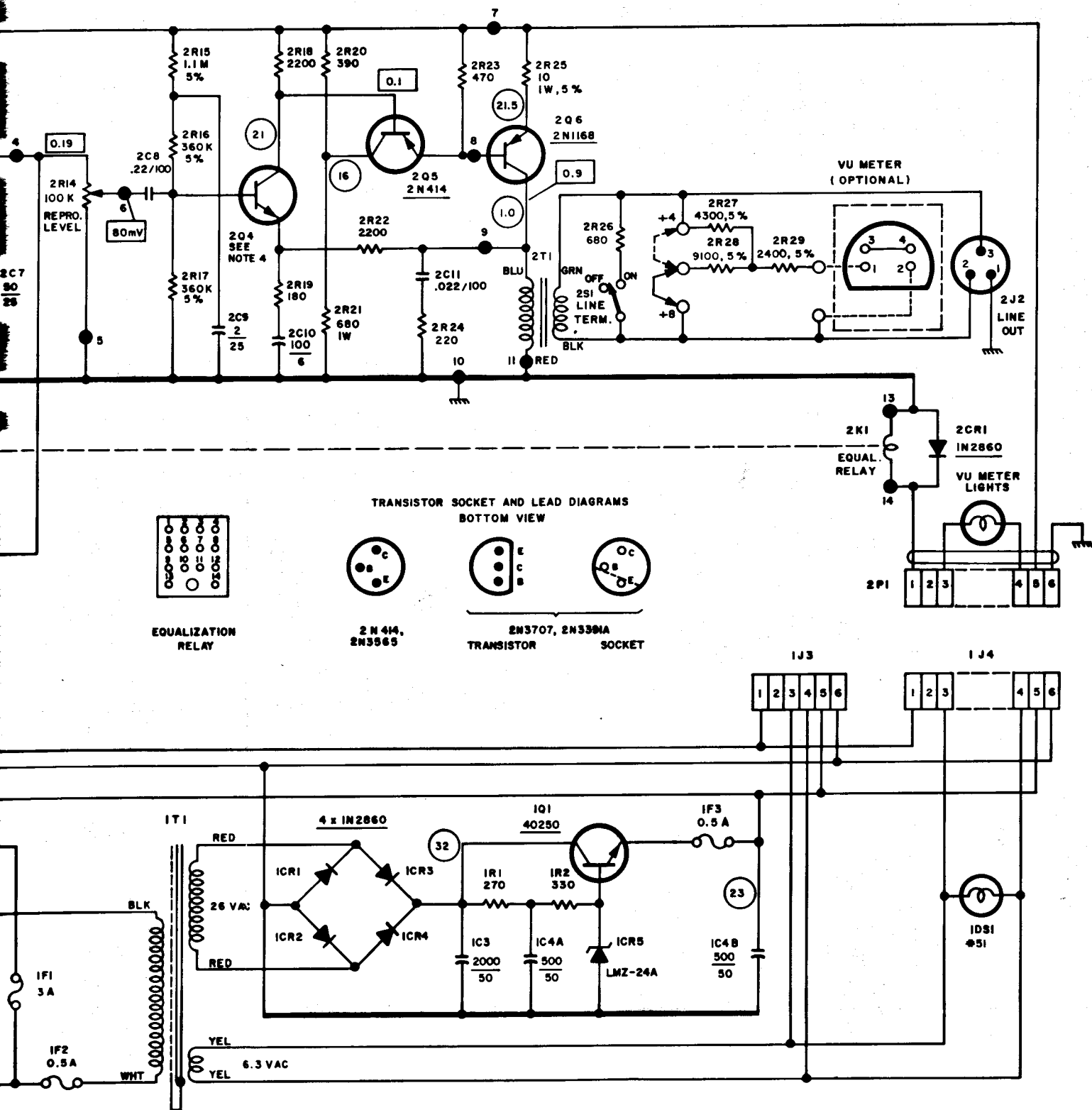
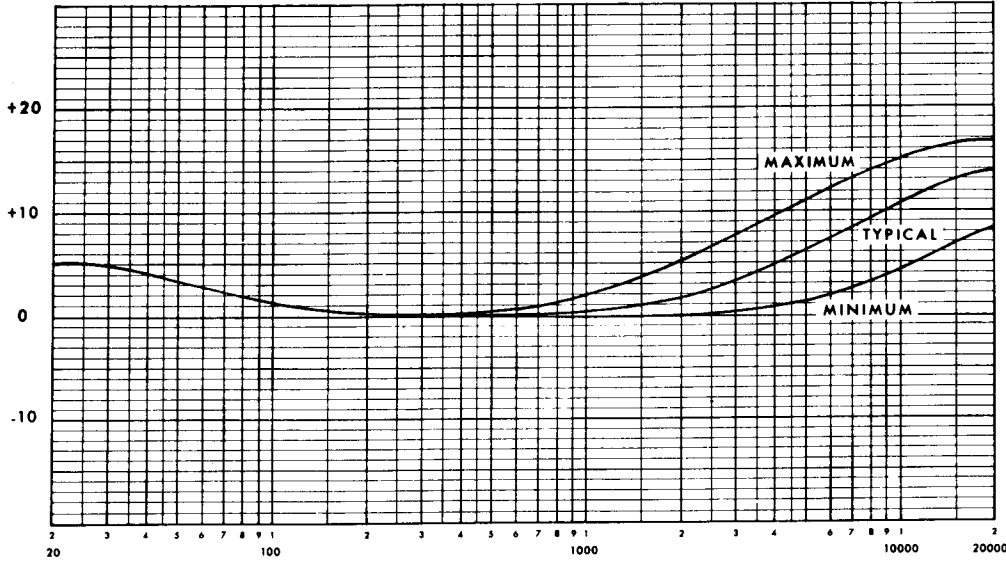
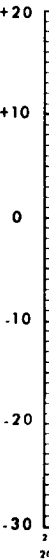


Fig. 7-6 Schematic Diagram, Reproduce-only Electronics

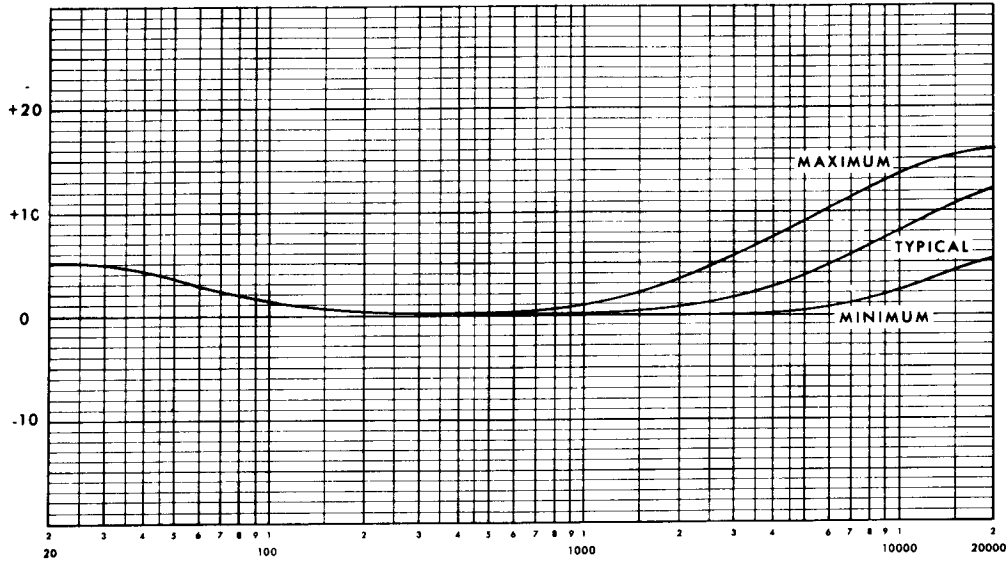
RECORD



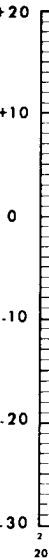
3 1/4 ips (120 usec)



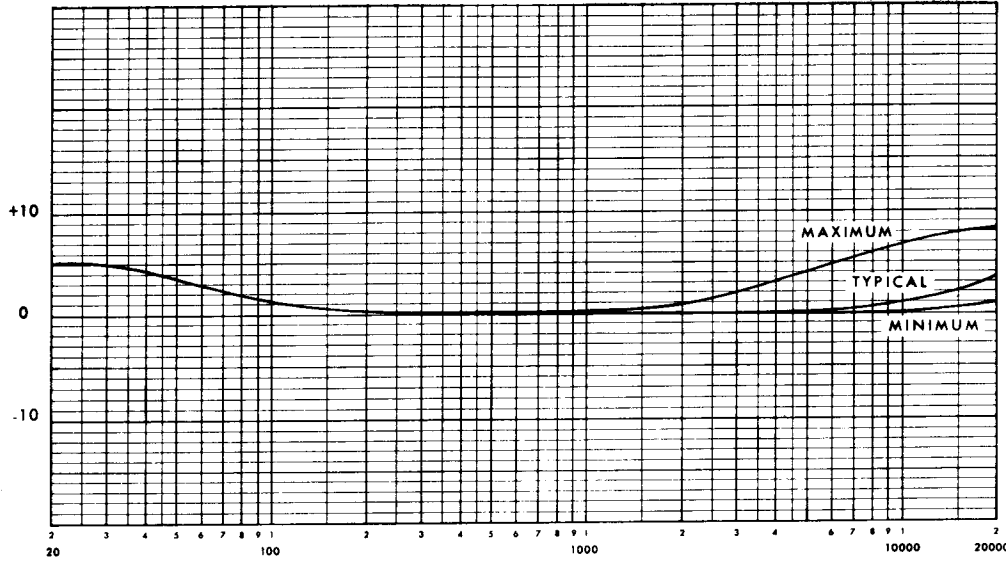
RECORD



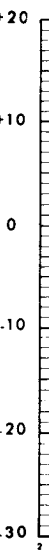
7 1/2 ips NAB

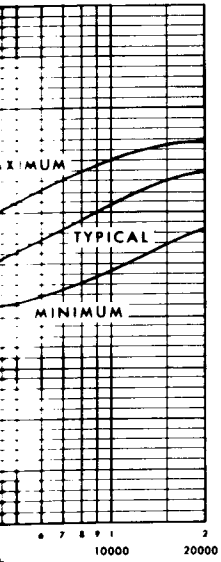


RECORD

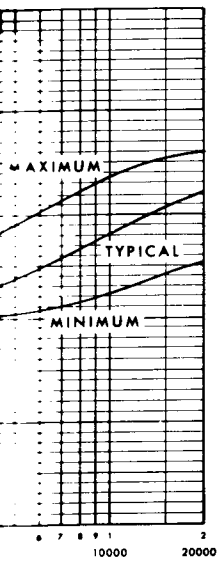
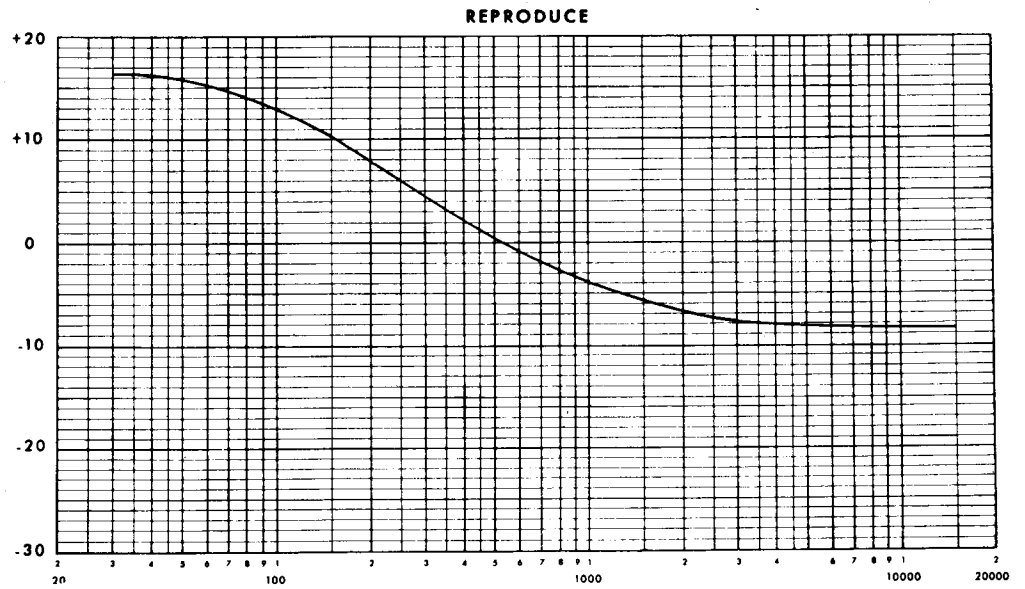


15 ips NAB

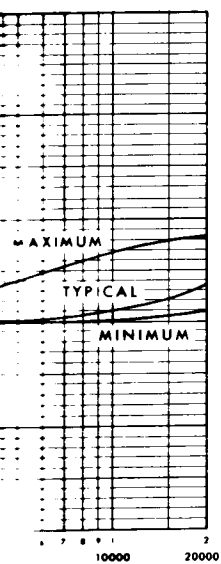
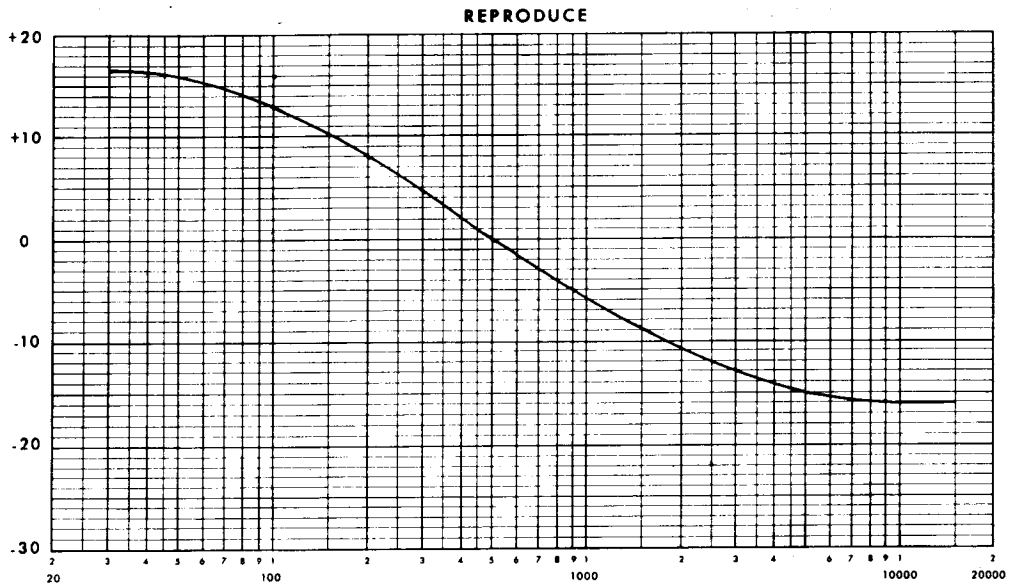




3 3/4 ips (120 usec)



7 1/2 ips NAB



15 ips NAB

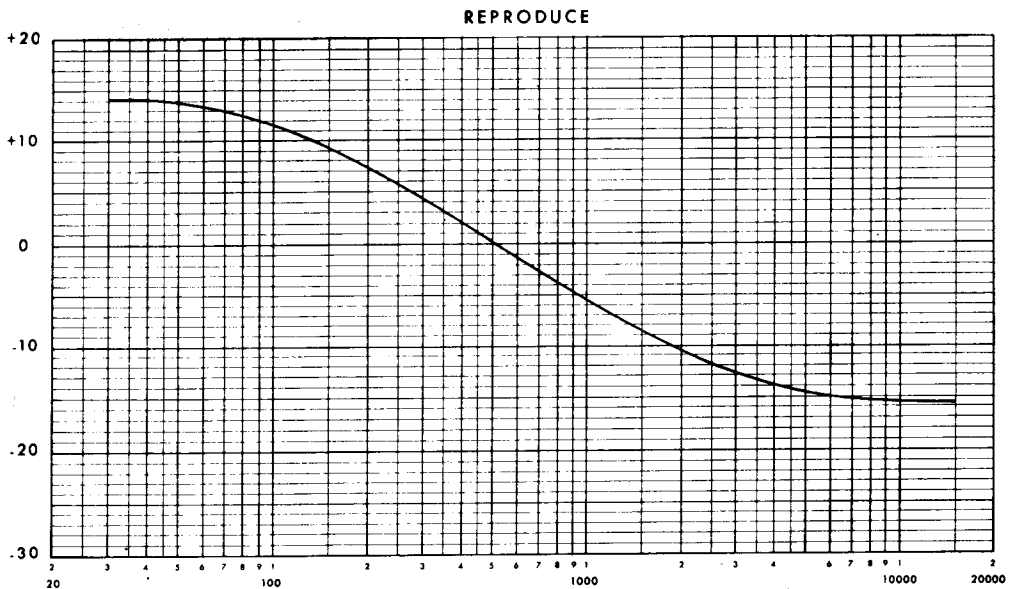
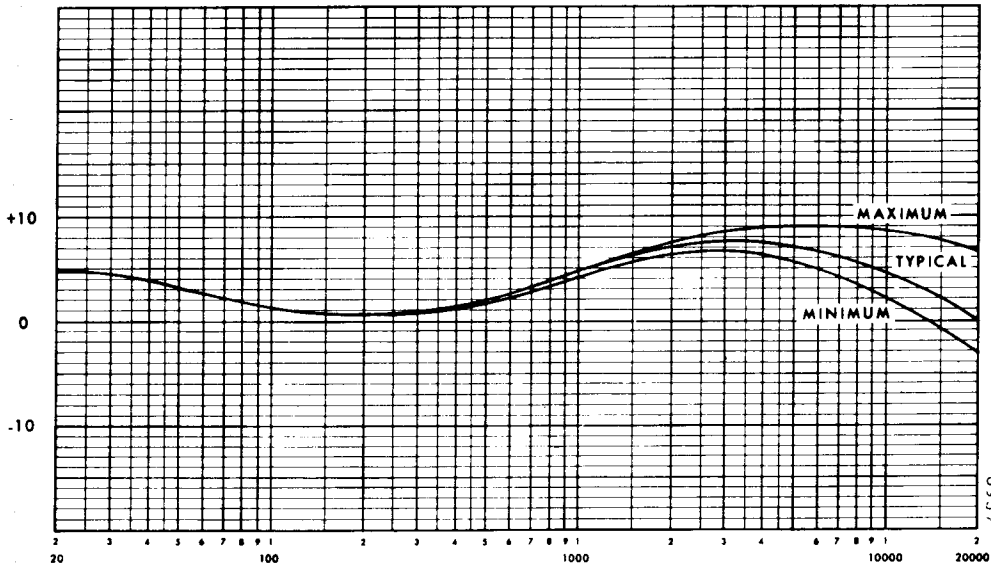
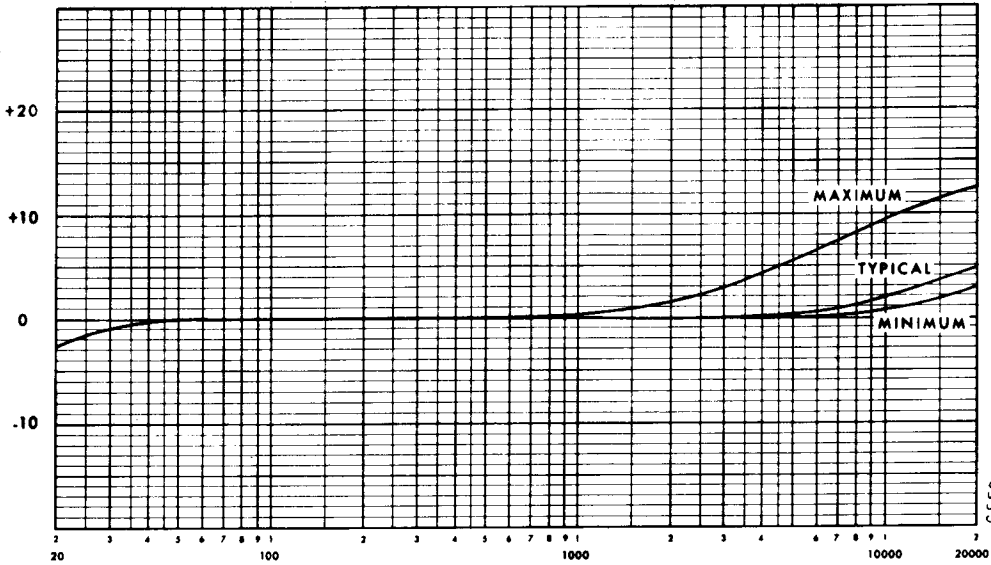
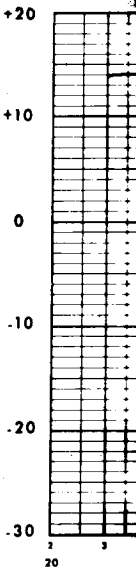


Fig. 7-7 Response Curves, Sheet 1 of 2



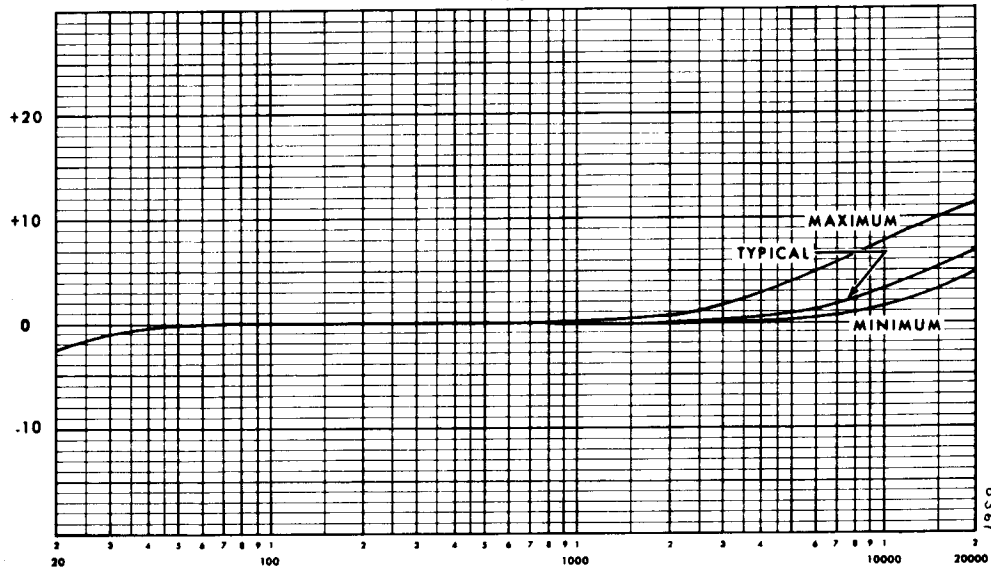
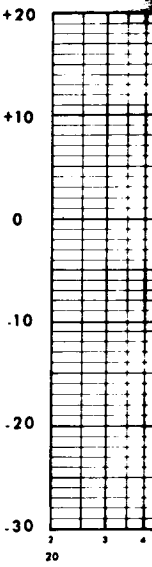
RECORD

15 ips AME

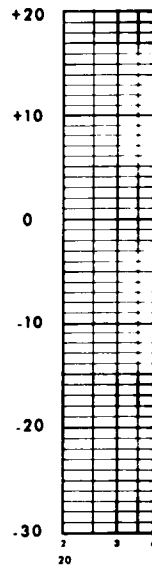


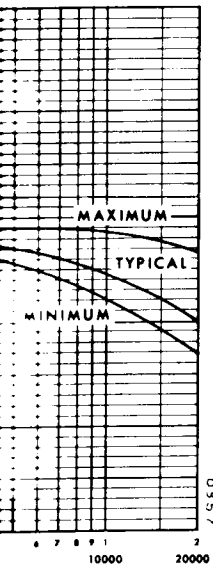
RECORD

7 1/2 ips CCIR

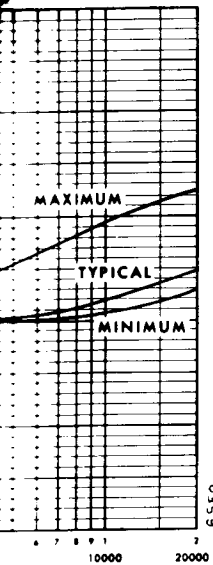
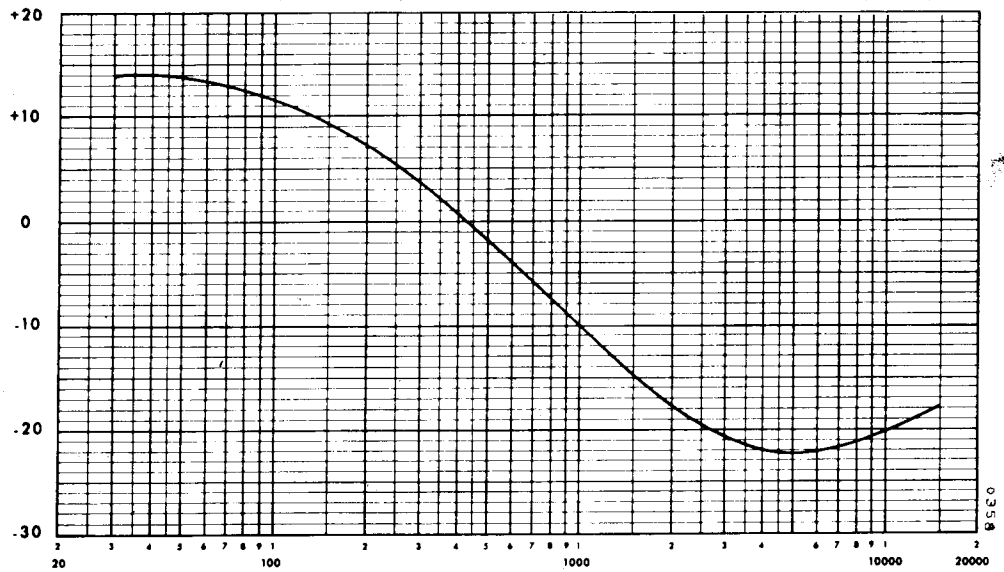


15 ips CCIR

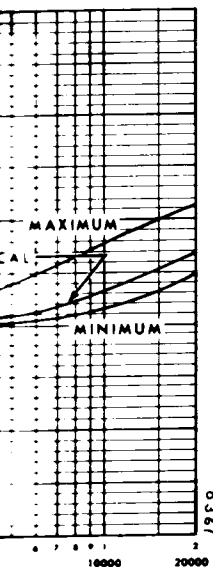
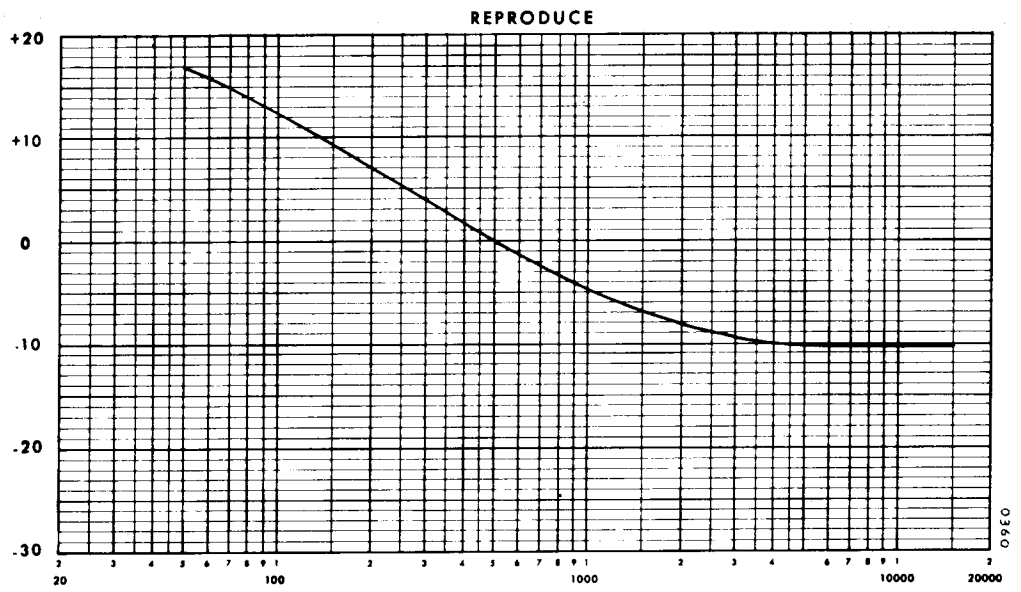




15 ips AME



7 1/2 ips CCIR



15 ips CCIR

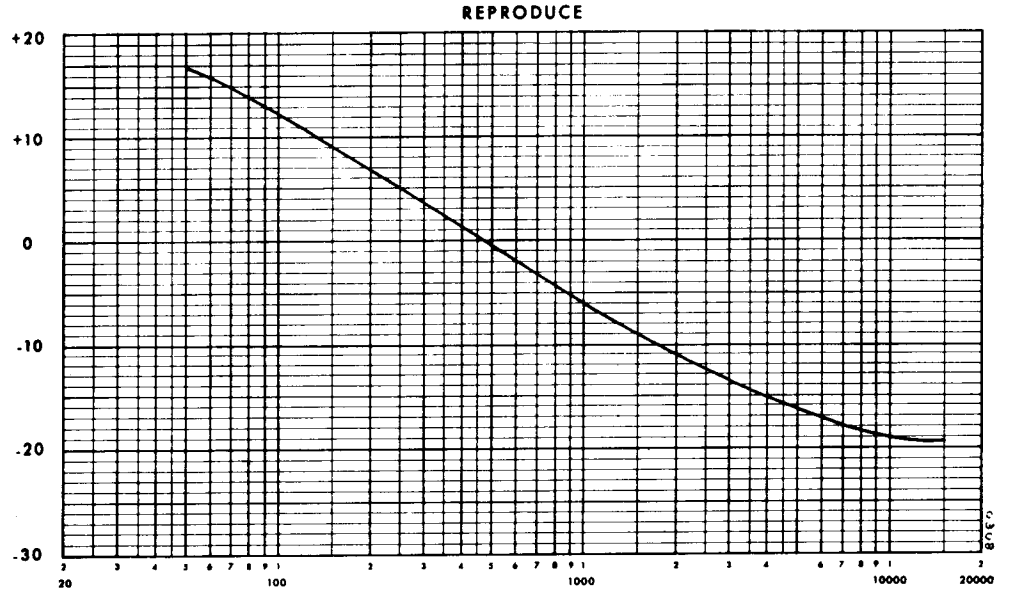
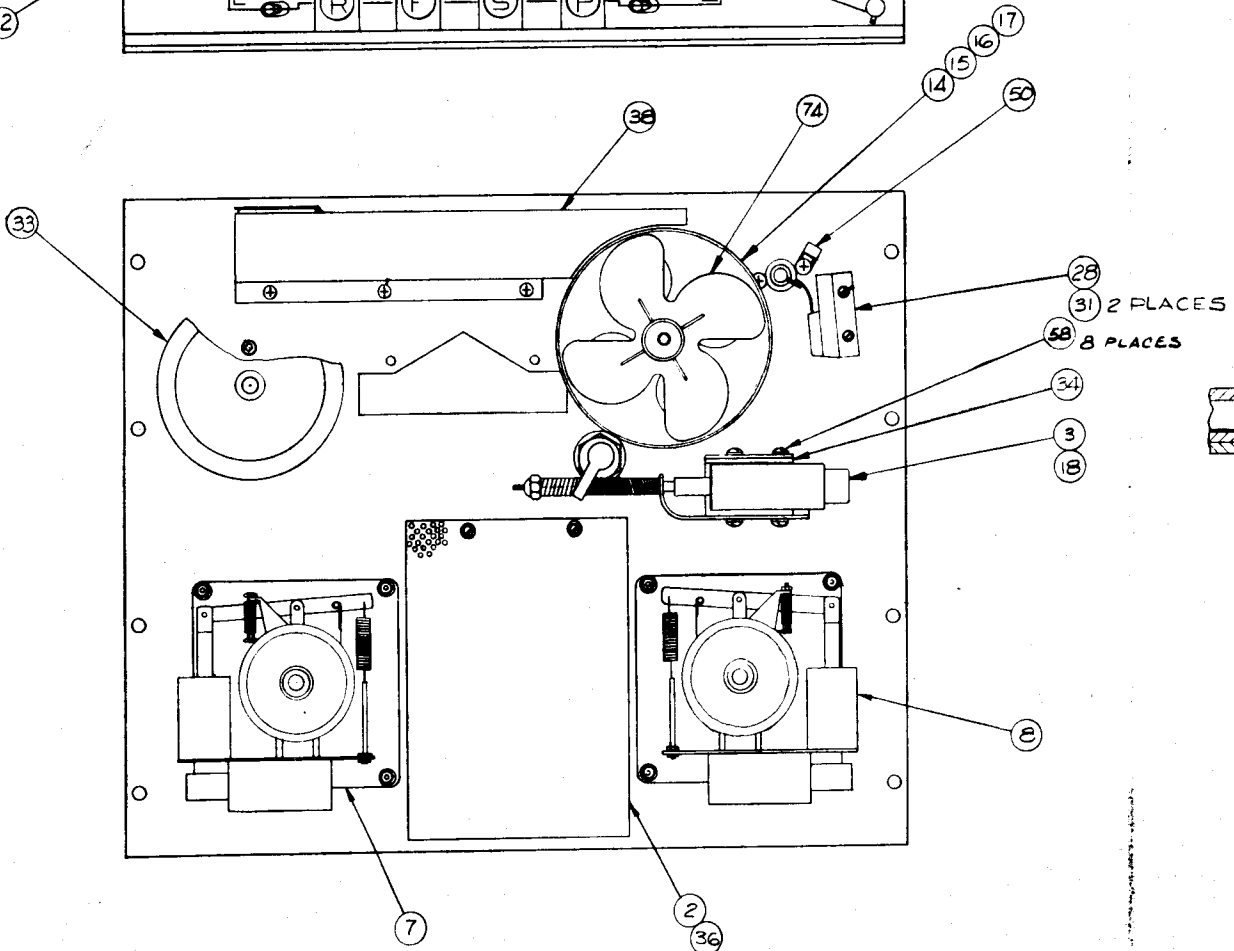
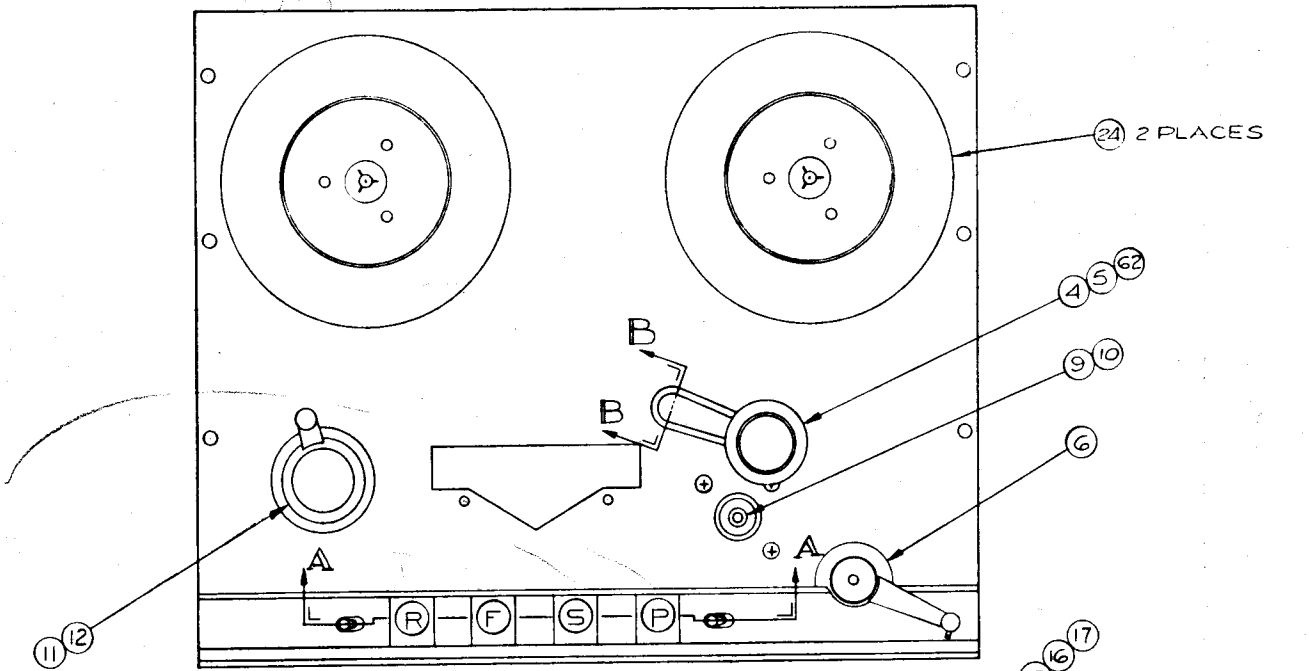


Fig. 7-8 Response Curves, Sheet 2 of 2



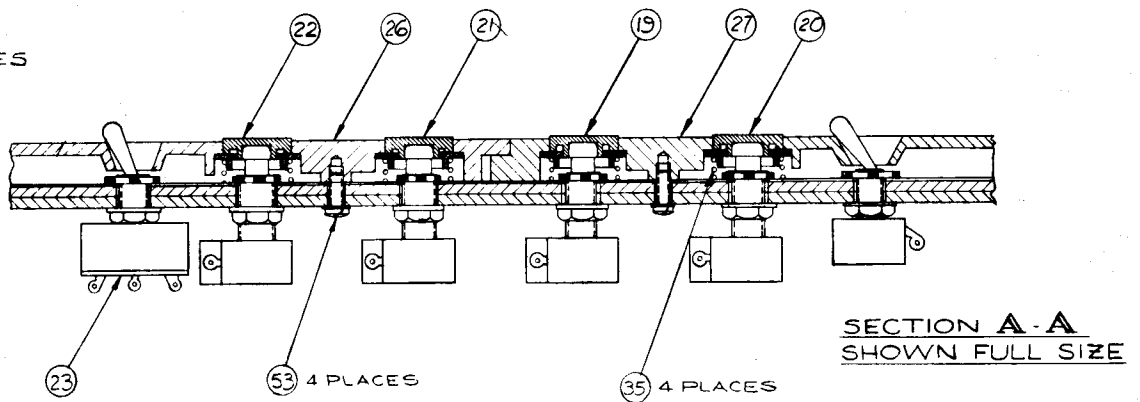
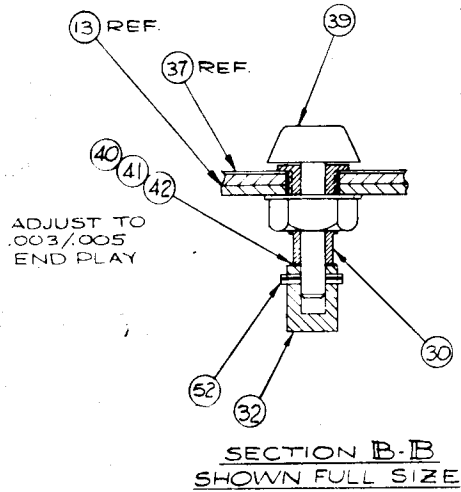
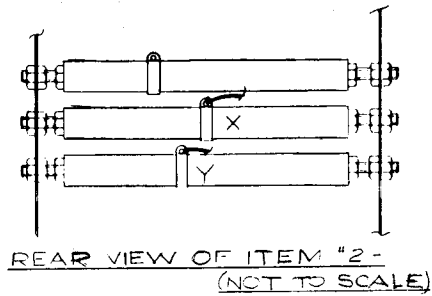
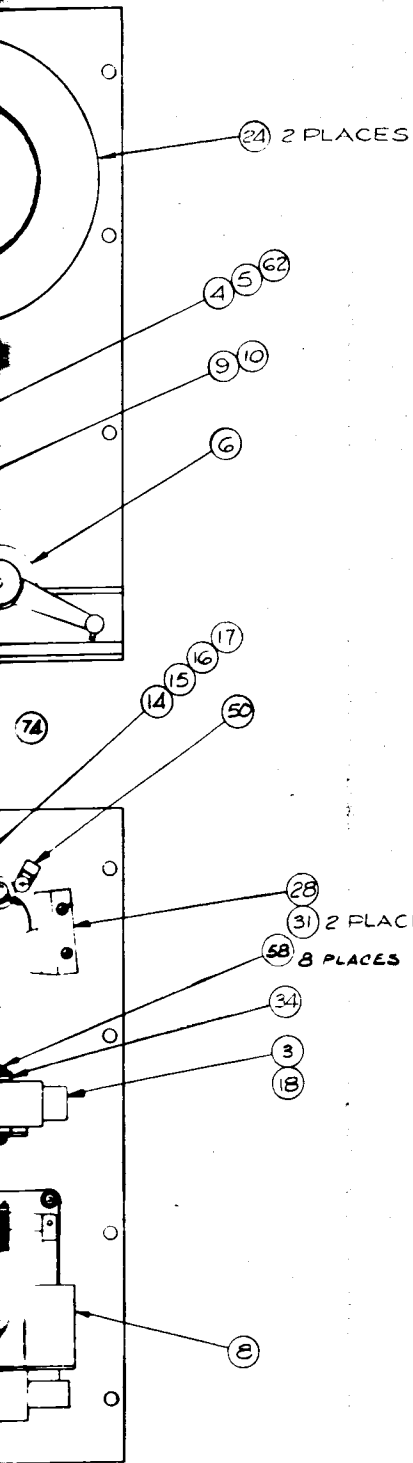
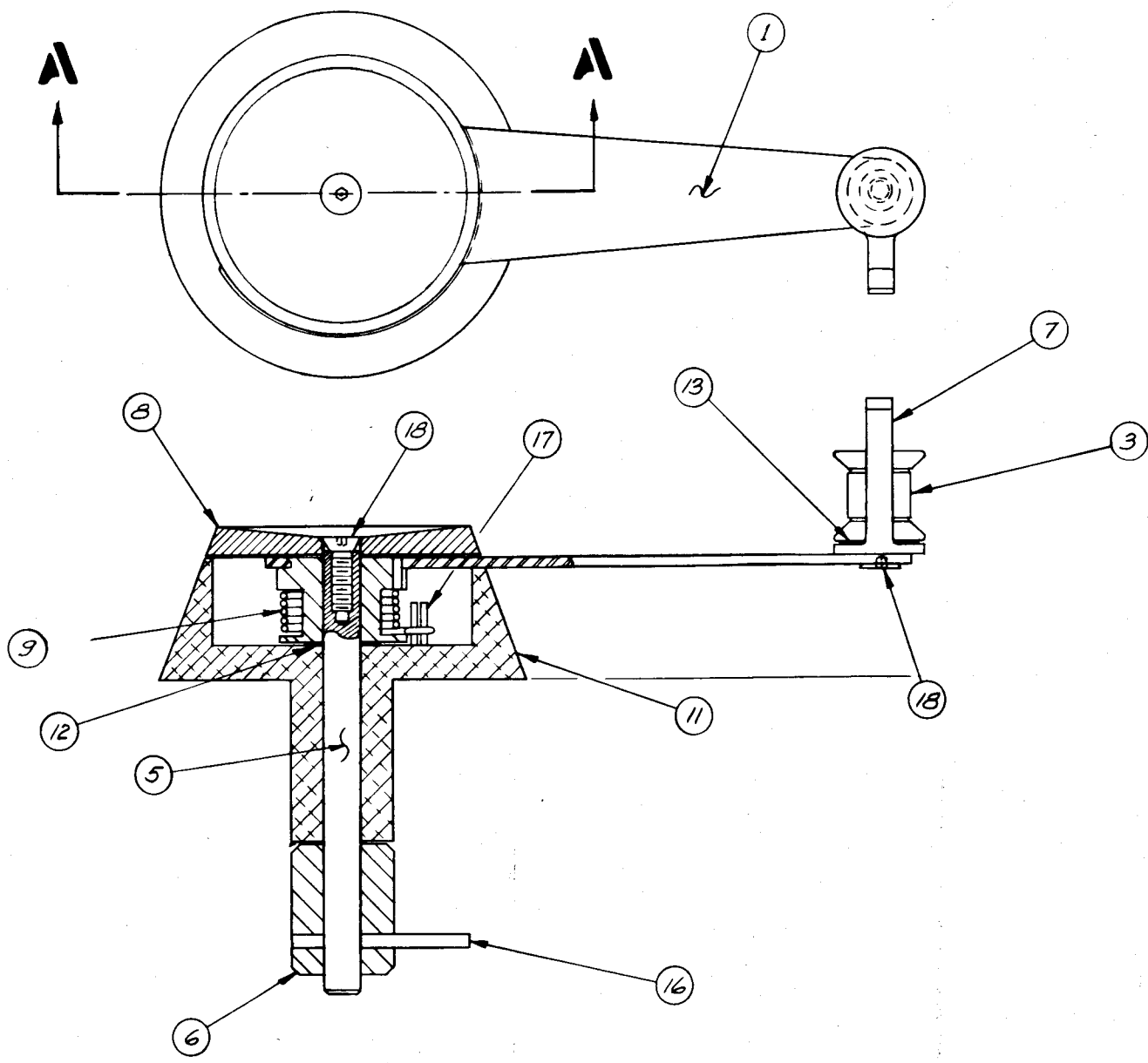
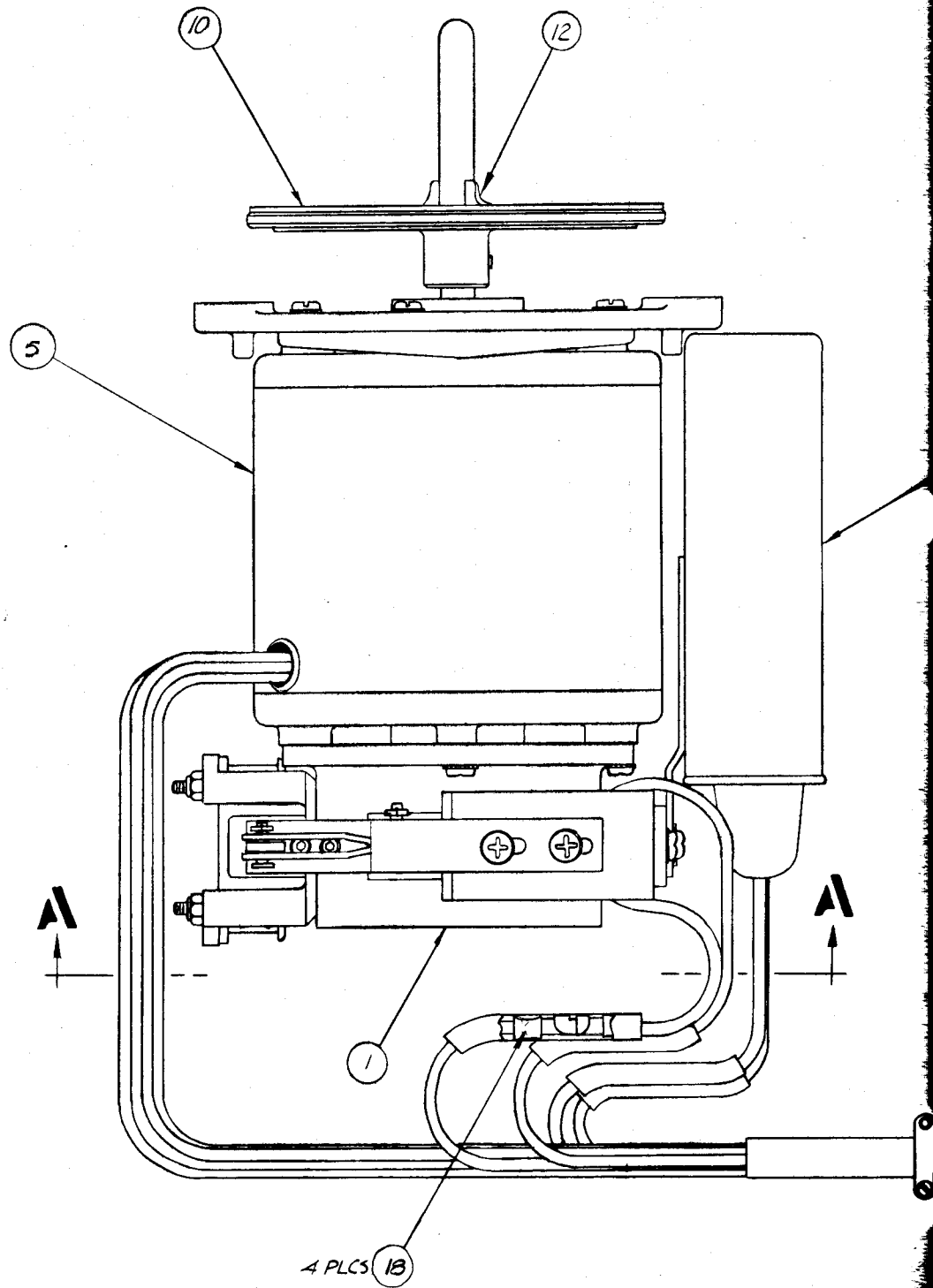


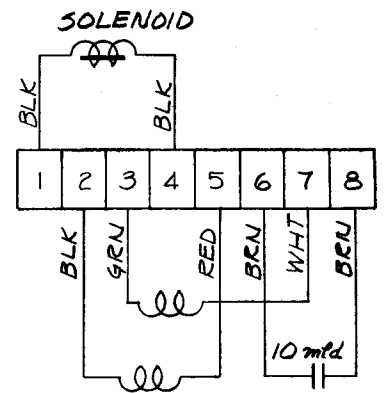
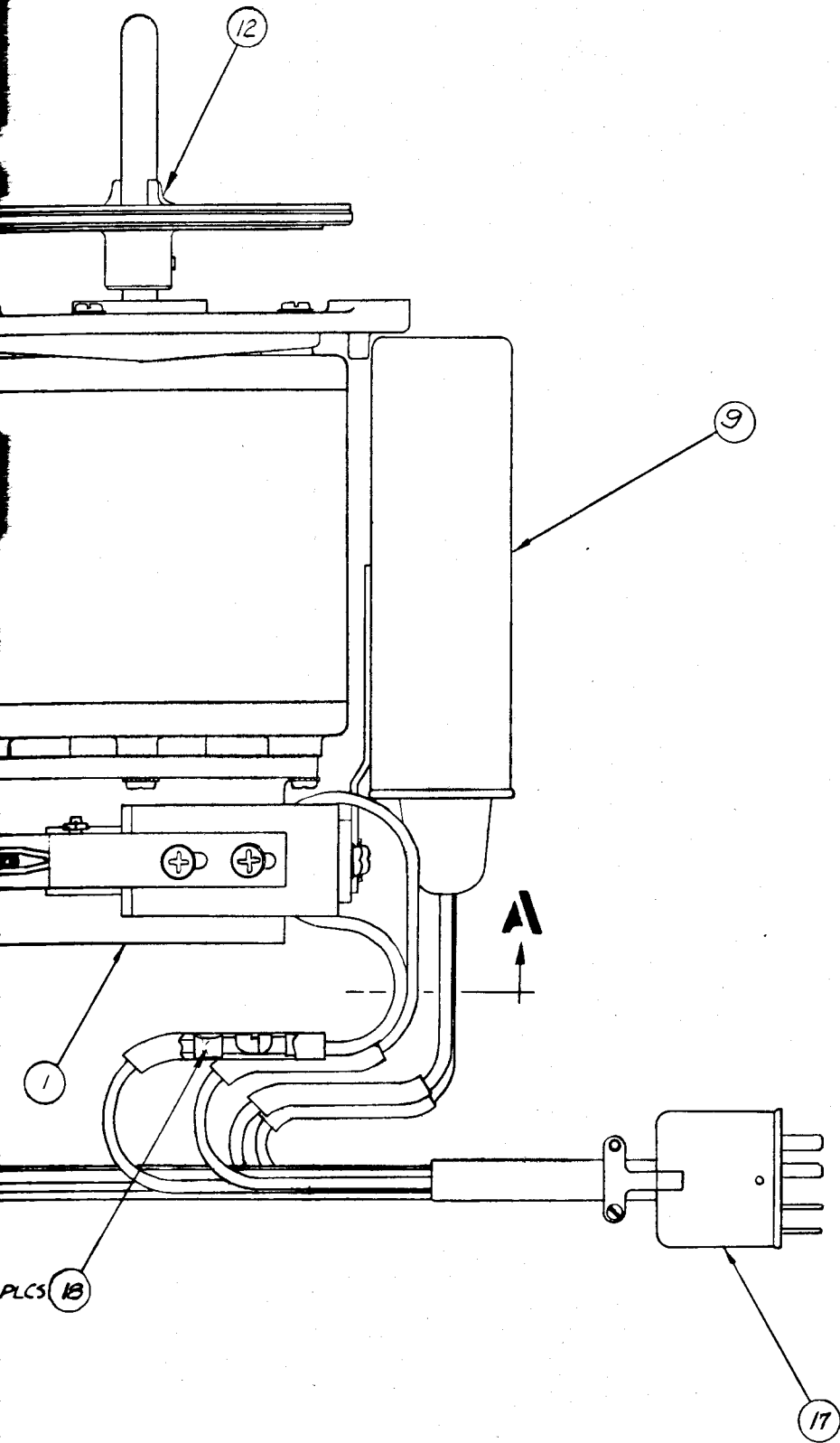
Fig. 7-9 Tape Transport Assembly



SEC. A-A

Fig. 7-10 Takeup Tension Arm Assembly

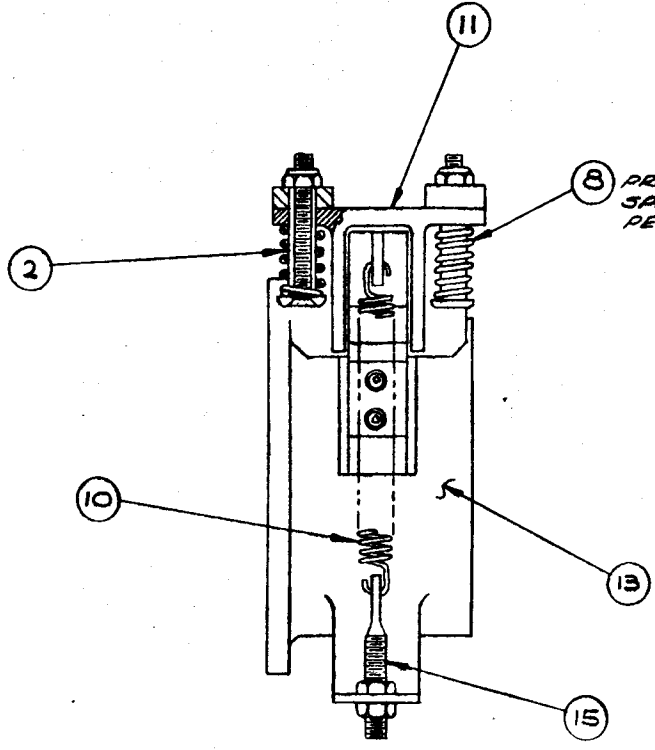




WIRING DIAGRAM
PLUG J-506-P

Fig. 7-11 Typical Reel Drive Assembly (Rewind)

ADJUST
SOLENOID
SIZED. A



PRELOAD COMPRESS
SPRINGS (2 PLACES
PER TABLE.

25

14

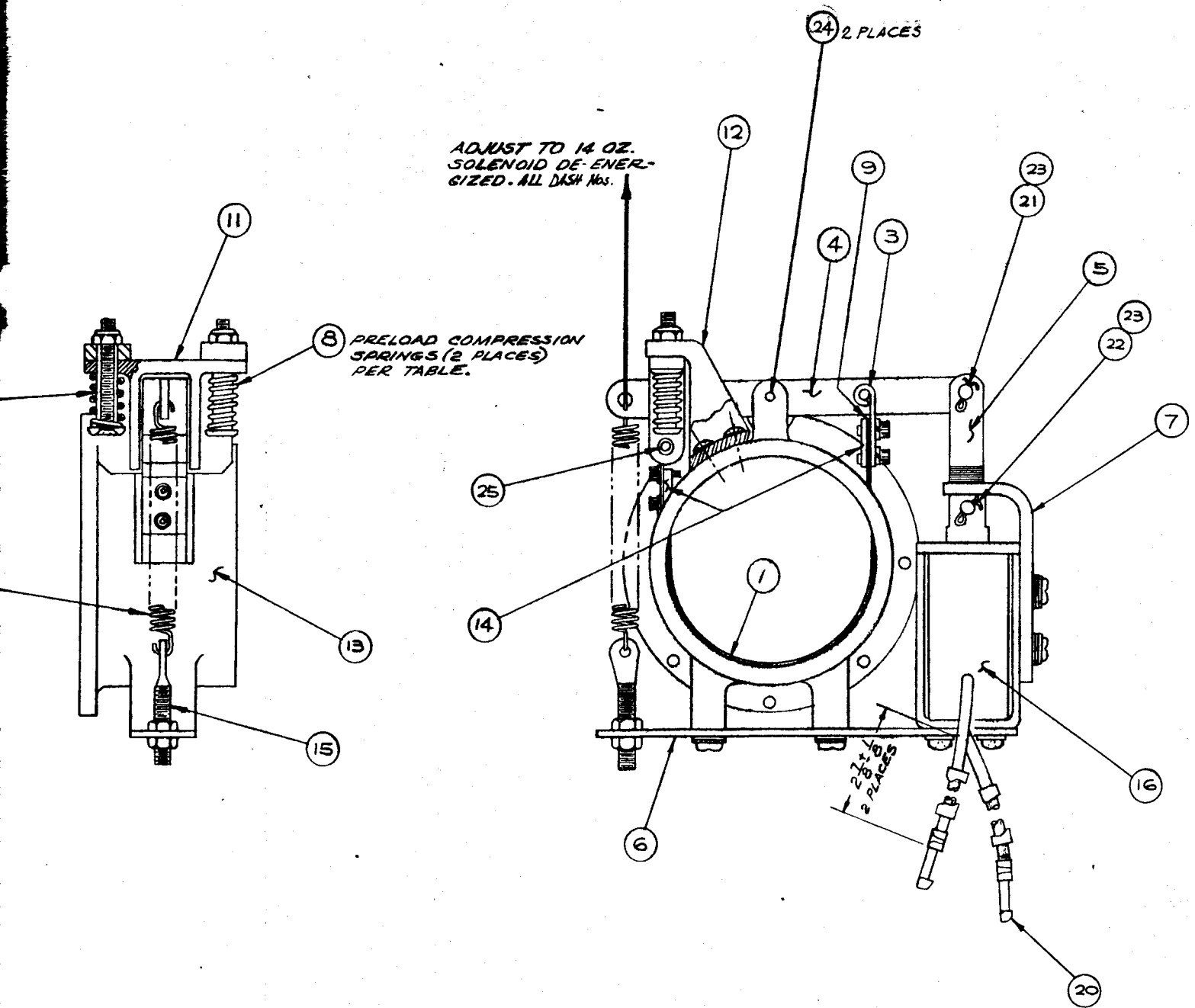
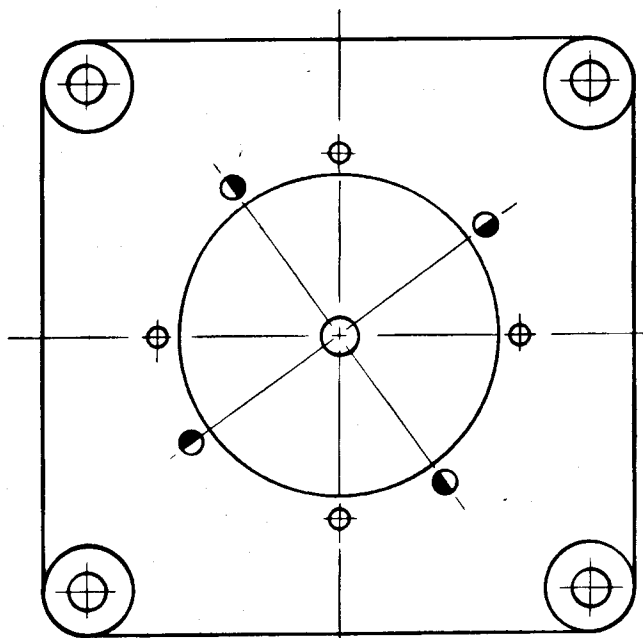
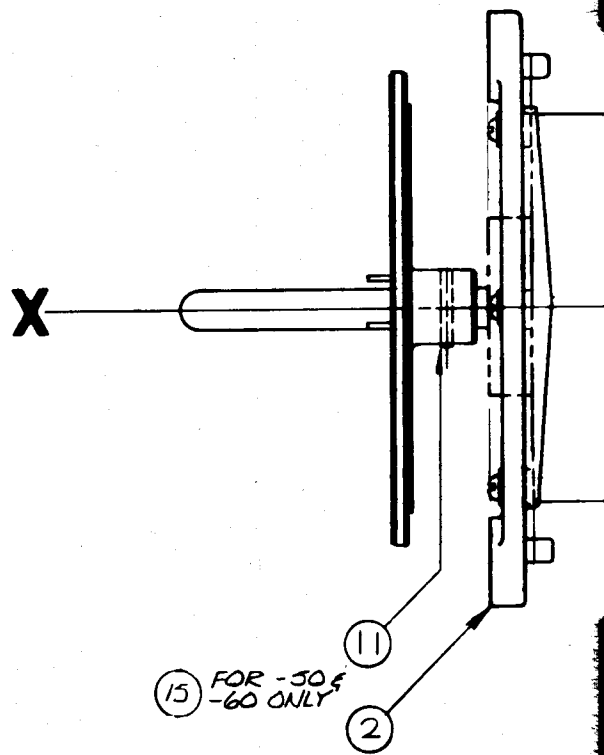


Fig. 7-12 Brake Assembly



TURNTABLE OMITTED FOR CLARITY



FOR -50 &
-60 ONLY

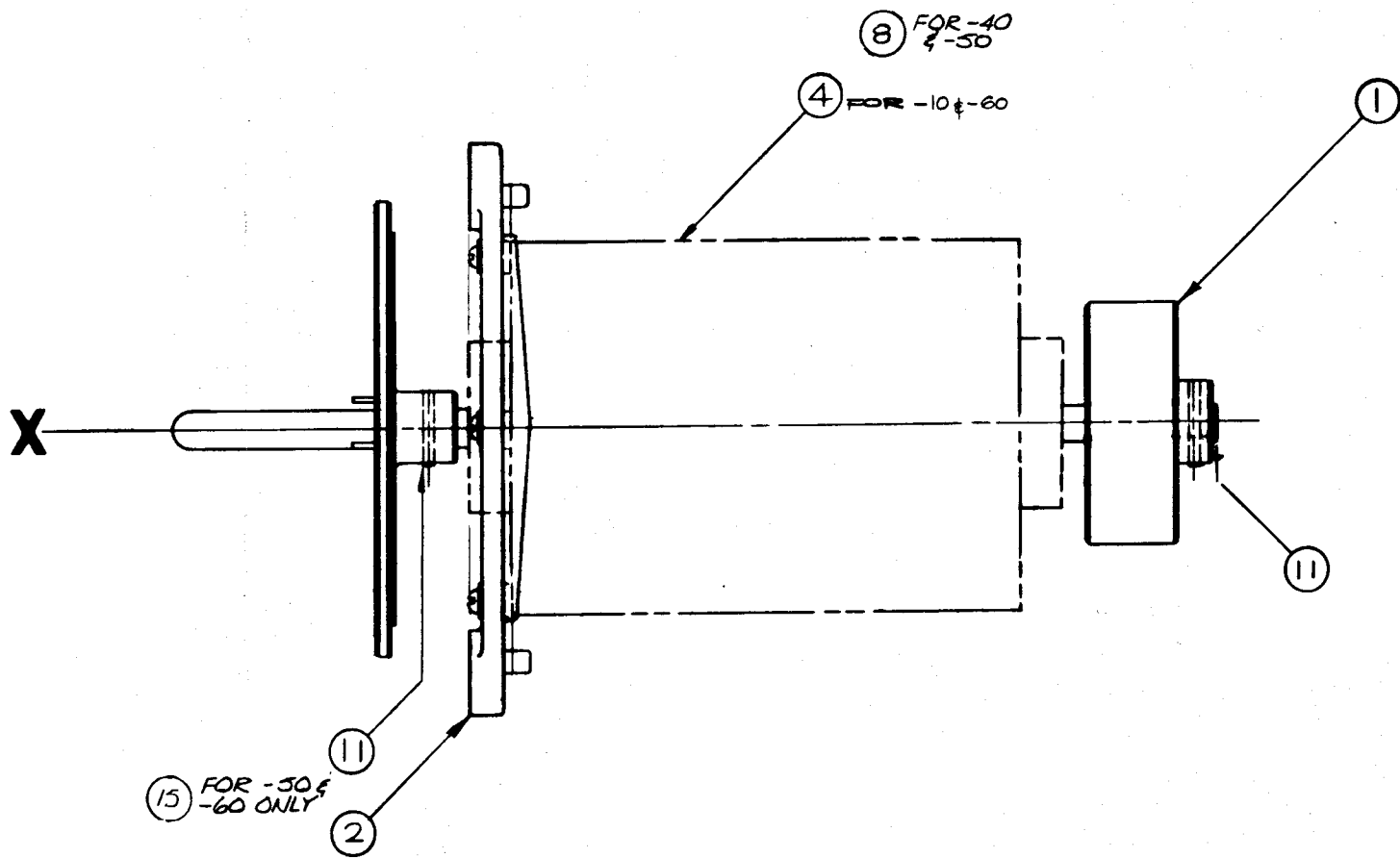
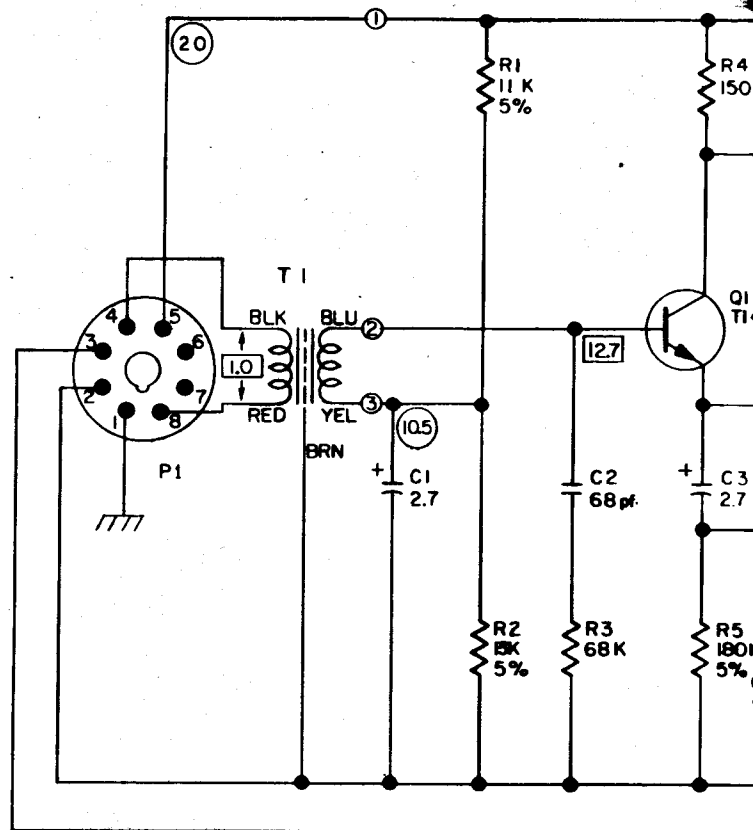




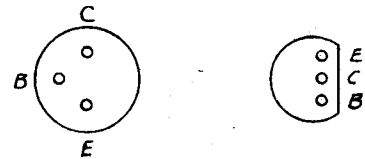
Fig. 7-13 Torque Motor Assembly



NOTES:

1.  DENOTES SHIELD CAN.
2. ALL RESISTORS ARE IN OHMS $\pm 10\%$, $\frac{1}{4}$ WATT, UNLESS OTHERWISE SPECIFIED.
3. ALL CAPACITORS ARE IN MICROFARADS, 15 VOLT, UNLESS OTHERWISE SPECIFIED.
4. (20) INDICATES D.C. VOLTAGE TO GROUND, MEASURED WITH A 20,000 Ω/V METER.
5.  INDICATES RMS MILLIVOLTS TO GROUND AT 500 CPS WITH 'S1' IN 60 DB POSITION AND LOADED WITH 100K RESISTOR.
6. TRANSISTORS Q1 & Q2-TI415 IS INTERCHANGEABLE WITH 2N 3391 A.

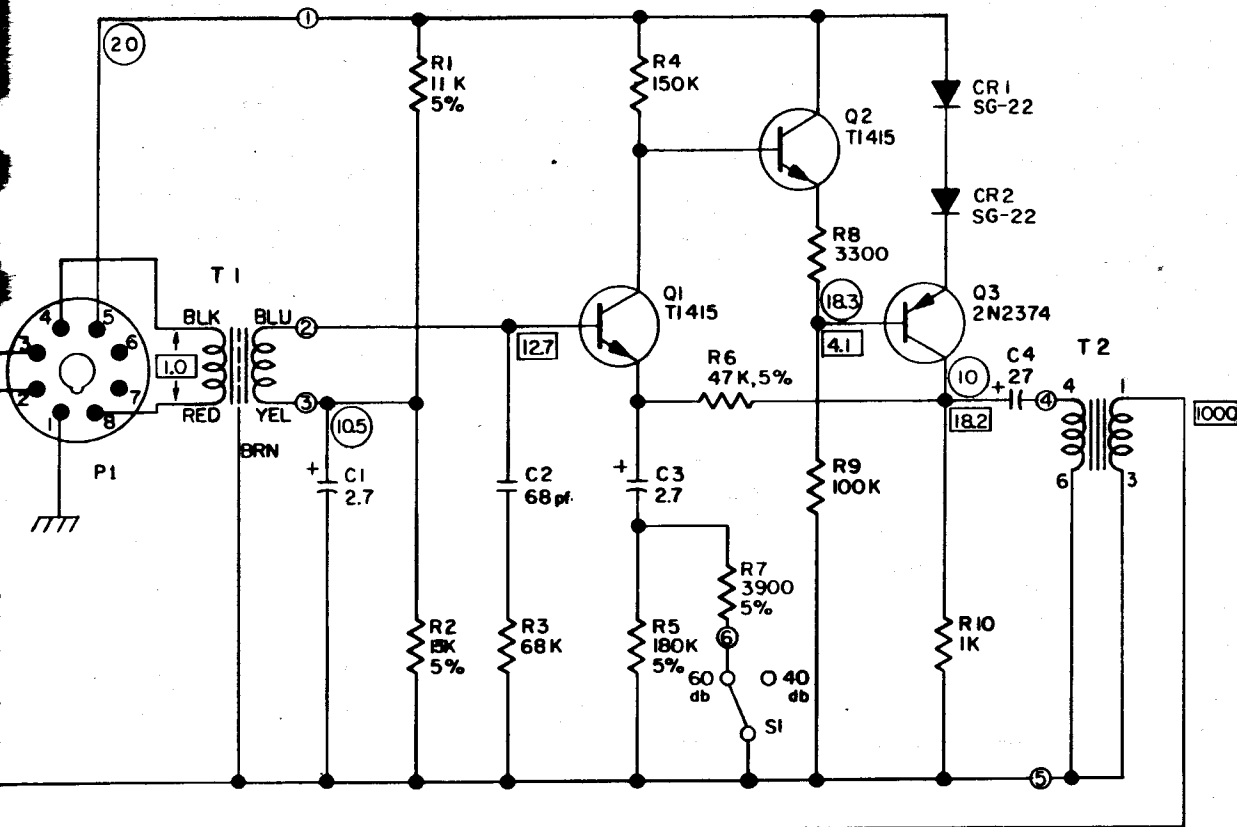
TRANSISTOR BASE DIAGRAM



ZN 2574

T1 415 (ALT. ZN3391A)

BOTTOM VIEW



±10%
SPECIFIED.

VARADS,
SPECIFIED.

GROUND,
V METER

TO GROUND
60 DB

100K RESISTOR

EXCHANGEABLE

Fig. 7-14 Schematic Diagram, Microphone Preamplifier