

INSTRUCTION MANUAL

MODEL 705
FAIRCHILD PASSIVE EQUALIZER

Serial No. 13

MODEL 705 PASSIVE EQUALIZER

DESCRIPTION

The FAIRCHILD Model 705 Passive Equalizer is a six position network providing playback equalization for monophonic disk equipment. It has four lateral and two vertical curves, and an input transformer with a choice of three impedances to ensure minimum insertion loss.

SPECIFICATIONS

INSERTION LOSS:

1 db at 30 cps (RIAA position)
19 db at 1000 cps (RIAA position)

INPUT SOURCE IMPEDANCES:

Designed to work with moving coil cartridges in three impedance ranges: 40 - 70 Ω
150 - 250 Ω
400 - 600 Ω

OUTPUT IMPEDANCE:

Should be operated into a 200/250 Ω input transformer, unterminated.

EQUALIZATIONS:

FLAT: For lateral recordings, 50 cps, 500 cps, crossovers, flat high frequency response.

RIAA: For lateral recordings, 50 cps, 500 cps and 2100 cps crossovers.

NAB: For lateral recordings, 50 cps, 500 cps and 1600 cps crossovers.

ROLL-OFF: For noisy lateral recordings, RIAA plus an additional 6 kc crossover.

VERT: For vertical recordings, 350 cps and 3500 cps crossovers.

VERT, ROLL-OFF: For noisy vertical recordings, 350 cps and 2000 cps crossovers.

MODEL 705 PASSIVE EQUALIZER

SPECIFICATIONS cont'd

OVERALL DIMENSIONS:

9-1/2" long x 4" wide x 5-1/2 " high.

WEIGHT:

5 lbs.

INSTALLATION

The Model 705 Passive Equalizer is mounted by means of the two 1-1/8" flat head machine screws supplied with the unit. Three holes are required in the cabinet or panel to properly mount the equalizer. (See Fig. 1)

Attach two-conductor shielded amplifier and pickup cables to the barrier type terminal strip in the rear of the 705. Mount the equalizer remote from any strong alternating current field to avoid hum pickup.

Besides providing different equalizations, the switch also is able to switch between the different input impedances, so lateral and vertical cartridges of different impedances are switched with their proper equalizations.

CONNECTIONS

OUTPUT:

Terminal 1 (high)
Terminal 2 (low)
Terminal 3 (ground)
Connect Terminal 2 to Terminal 3.

INPUT SINGLE CARTRIDGE:

40 - 70 Ω Cartridge:
Terminal 8 (high)
Terminal 6 (low)
150 - 250 Ω Cartridge:
Terminal 5 (high)
Terminal 6 (low)
400 - 600 Ω Cartridge:
Terminal 5 (high)
Terminal 8 (high)

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CONNECTIONS cont'd

INPUT TWO CARTRIDGES IN SAME ARM:

Are two cartridges used in the same arm (cartridge slide or turret) and is the vertical cartridge the FAIRCHILD 216, and the lateral the FAIRCHILD 225, these are the connections to the arm:

Terminal 9 (high)
Terminal 6 (low)

Connect Terminal 4 to Terminal 5, and Terminal 7 to Terminal 8.

INPUT TWO CARTRIDGES IN DIFFERENT ARMS:

FAIRCHILD 216 vertical cartridge to be connected to:

Terminal 8 (high)
Terminal 7 (low)

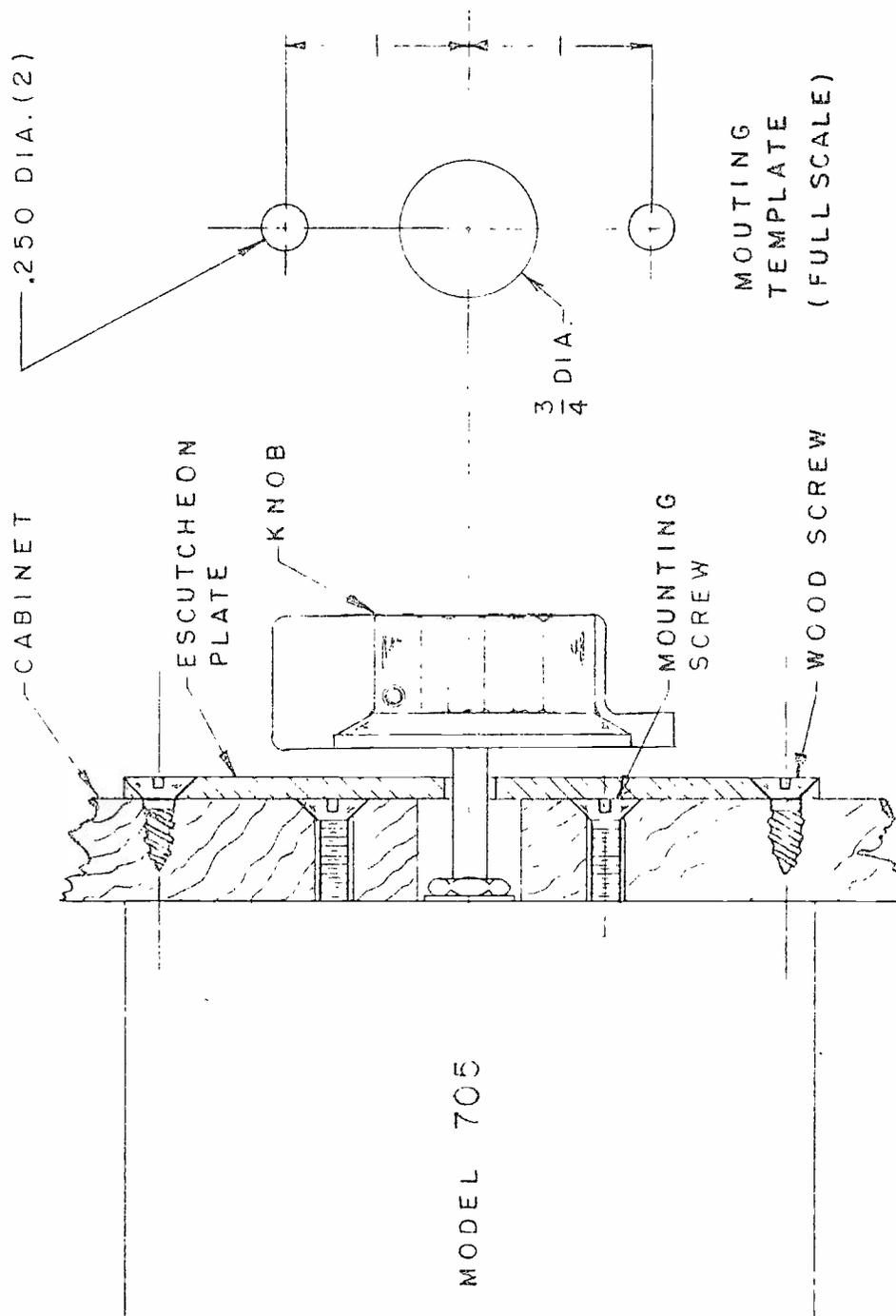
And FAIRCHILD 225 lateral cartridge to be connected to:

Terminal 5 (high)
Terminal 4 (low)

Connect Terminal 6 to Terminal 9.

FAIRCHILD RECORDING EQUIPMENT CORPORATION
10-40 45th Avenue
Long Island City 1, New York

March 15th, 1960



MOUNTING ASSEMBLY

FIG. 1

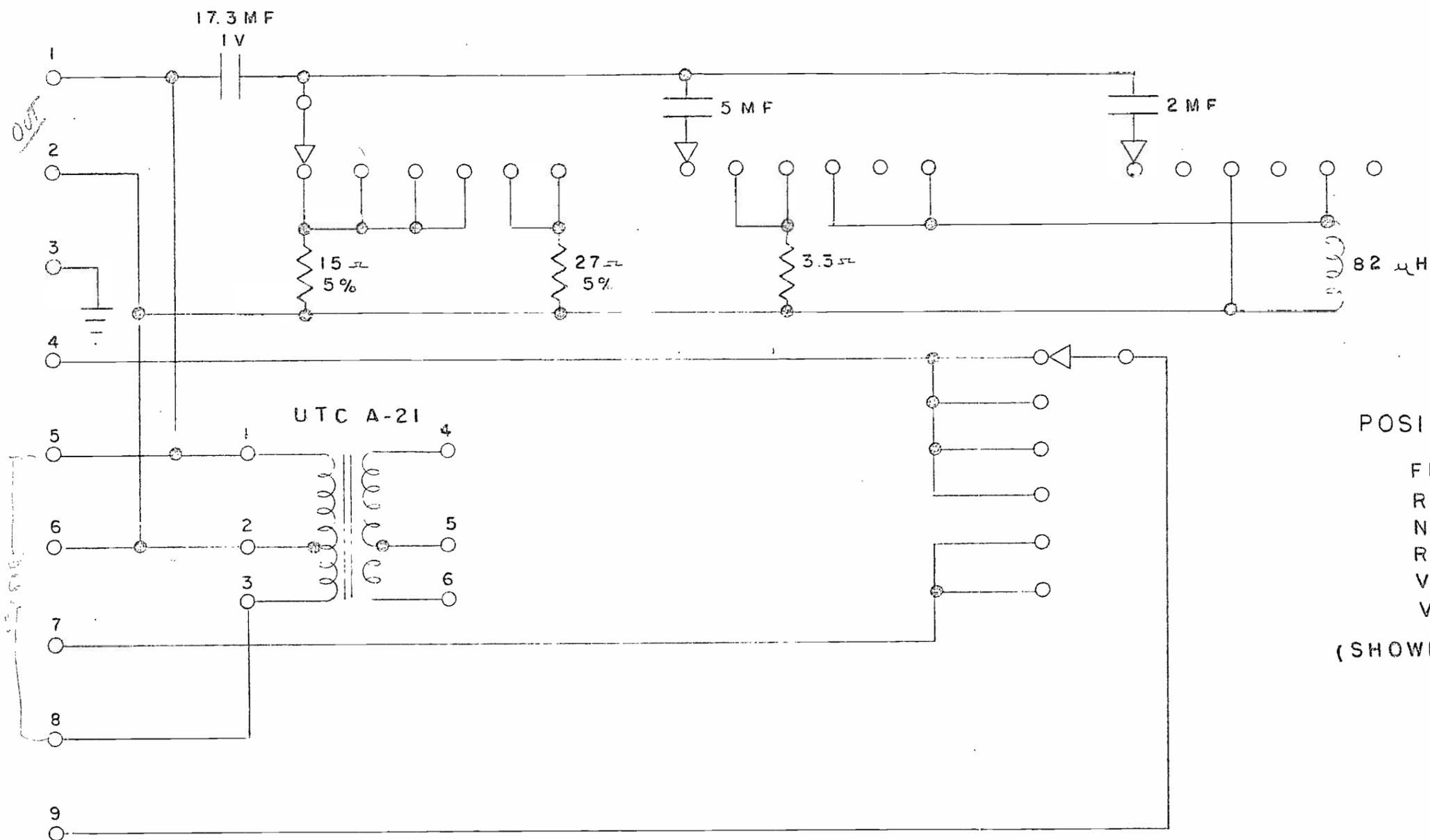
DO NOT SCALE DWG. - WORK TO FIGURES.
 TOLERANCES - UNLESS OTHERWISE SPECIFIED
 DEC. DIMS. ± FRAC. DIMS. ± ANGULAR DIMS. ±

DRILL, PUNCH, COMMERCIAL STOCK
 SIZES AND MANUFACTURERS'
 TOLERANCES ARE NOT INCLUDED.

REMOVE ALL
 BURRS AND
 SHARP EDGES

NUMBER
B

ISSUE:



POSITIONS:
 FLAT
 RIAA
 NAB
 ROLL OFF
 VERT
 VERT ROLL OFF
 (SHOWN IN POSITION FLAT)

REQ	DESCRIPTION	SYMBOL	NOTE	DWG NUMBER	ITEM	NEXT ASSEMBLY
				705		
				SCHEMATIC		
				FAIRCHILD RECORDING EQUIPMENT CORPORATION 154 ST. & 7 AVE. WHITESTONE, L.I., N. Y.		
DRAWN BY	H.B.	CHKD BY	DRFTG APP	SCALE	NUMBER	
ENG	PROJECT ENG		ENG APP		B	