

PULTEC

MODEL EQH-2

SERIAL No. 4681

PULSE TECHNIQUES, INC.

1411 PALISADE AVE., WEST ENGLEWOOD, NEW JERSEY

INSTALLATION AND OPERATING INSTRUCTIONS PULTEC MODEL EQH-2 PROGRAM EQUALIZER

GENERAL

The PULTEC Model EQH-2 Program Equalizer consists of a passive equalizer, an amplifier and self contained power supply. The amplifier restores the insertion loss of the equalizing network, thus providing a no loss, no gain unit.

INSTALLATION

INPUT IMPEDANCE: 600 ohms, matching, transformer input.

OUTPUT IMPEDANCE: Transformer, feeds a 600 ohm load.

When installing in an unbalanced circuit,
strap one input terminal and one output
terminal to the chassis ground terminal.

AVERAGE INPUT LEVEL: Optimum range -10 dbm to +8 dbm.
Maximum peak level +20 dbm.

POWER SUPPLY: 117 volts, 50/60 cps, 25 watts.

OPERATION

The "LOW FREQUENCY" selector switch determines the curve on which the left hand "BOOST" and "ATTEN" controls are effective. EITHER the boost control OR the attenuate control should be operated as required. Do not attempt to boost and attenuate simultaneously on the low frequencies.

The "HIGH FREQUENCY" selector switch determines the curve on which the right hand "BOOST" control is effective. The right hand "ATTEN" control is in no way influenced by this switch. This control always operates on the 10 kcs attenuate curve. Consequently, it is possible, and sometimes very desirable, to operate the right hand boost and attenuate controls simultaneously. For example, it may be desired to roll off on the 10 kcs attenuate curve and also to brighten the signal somewhat at 3 or 5 kcs by using the boost control.

Operating the key switch away from the "IN" position is equivalent to returning ALL boost and attenuate controls to their zero positions. The amplifier remains in the circuit.

TUBES AND POTENTIOMETERS
in
PULTEC MODEL EQH-2 PROGRAM EQUALIZER

The Types ECC-82 and ECC-83 tubes are equivalent to the 12AU7 and 12AX7 respectively. The manufacturers of these tubes claim, and our experience to date confirms the fact, that the ECC series average substantially lower hum and microphonics than the 12AU7 and 12AX7.

The Low Boost Potentiometer is IRC (international Resistance Co.) Type PQ-13,123. This is a 50,000 ohm potentiometer with "Audio" or Logarithmic taper.

The Low Attenuate Potentiometer is Ohmite Type CA-2541 or Allen-Bradley Type JA-2541. This is a 250,000 ohm potentiometer with "Audio" taper.

The High Boost Potentiometer is Ohmite Type CU-5031 or Allen-Bradley Type JU-5031. This is a 50,000 ohm potentiometer with "Linear" taper.

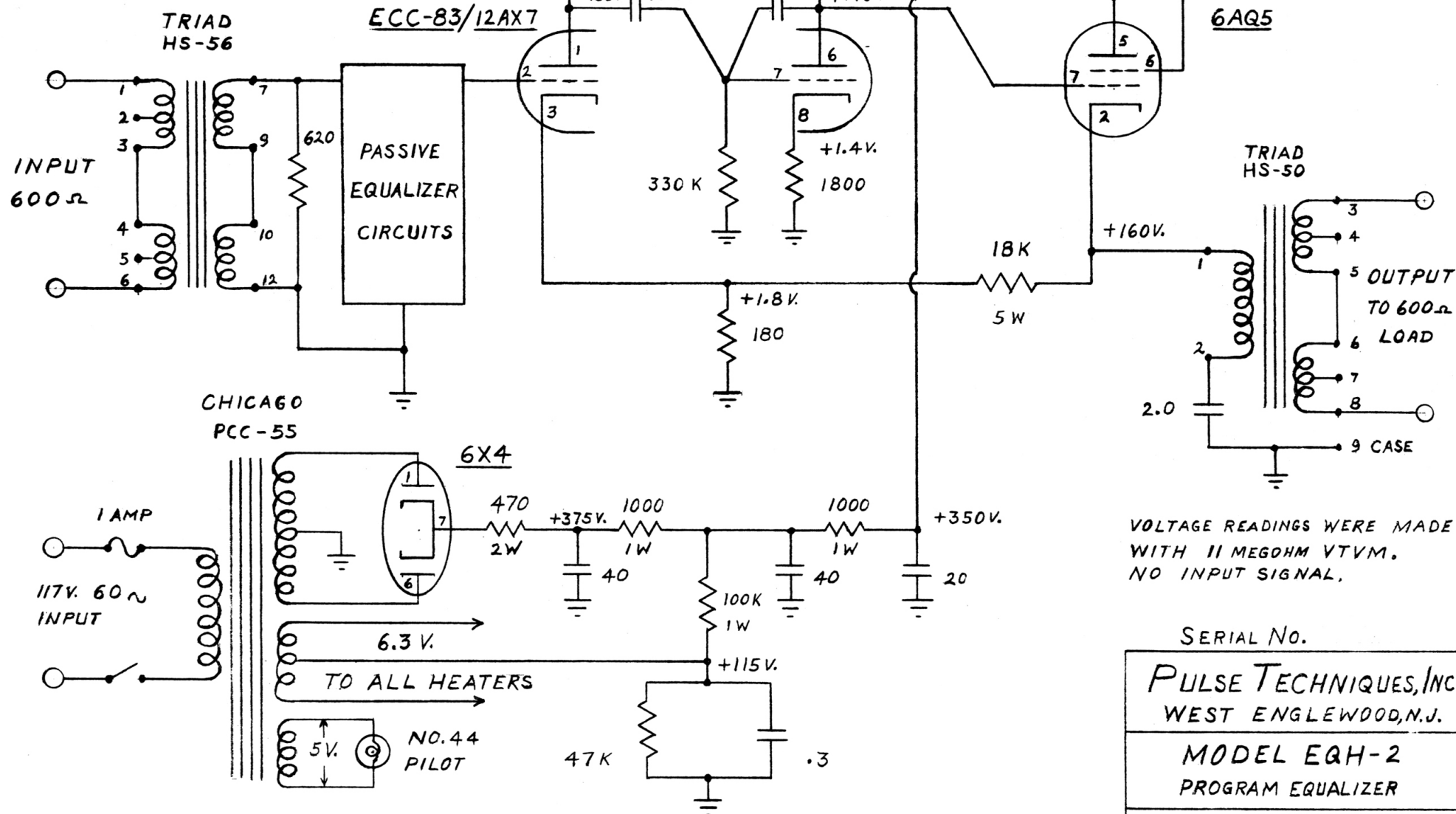
The High Attenuate Potentiometer is Ohmite Type CU-5021 or Allen-Bradley Type JU-5021. This is a 5,000 ohm potentiometer with "Linear" taper.

TRIAD HS-56

INPUT IMPEDANCE	CONN. TO	STRAP
600 Ω	1-6	3-4 C.T.
250 Ω	2-5	3-4 C.T.
150 Ω	1-6	1-4, 3-6
60 Ω	2-5	2-4, 3-5

TRIAD HS-50

TO FEED LOAD OF	CONN. TO	STRAP
600 Ω	3-8	5-6 C.T.
250 Ω	4-7	5-6 C.T.
150 Ω	3-8	3-6, 5-8
50 Ω	4-7	4-6, 5-7

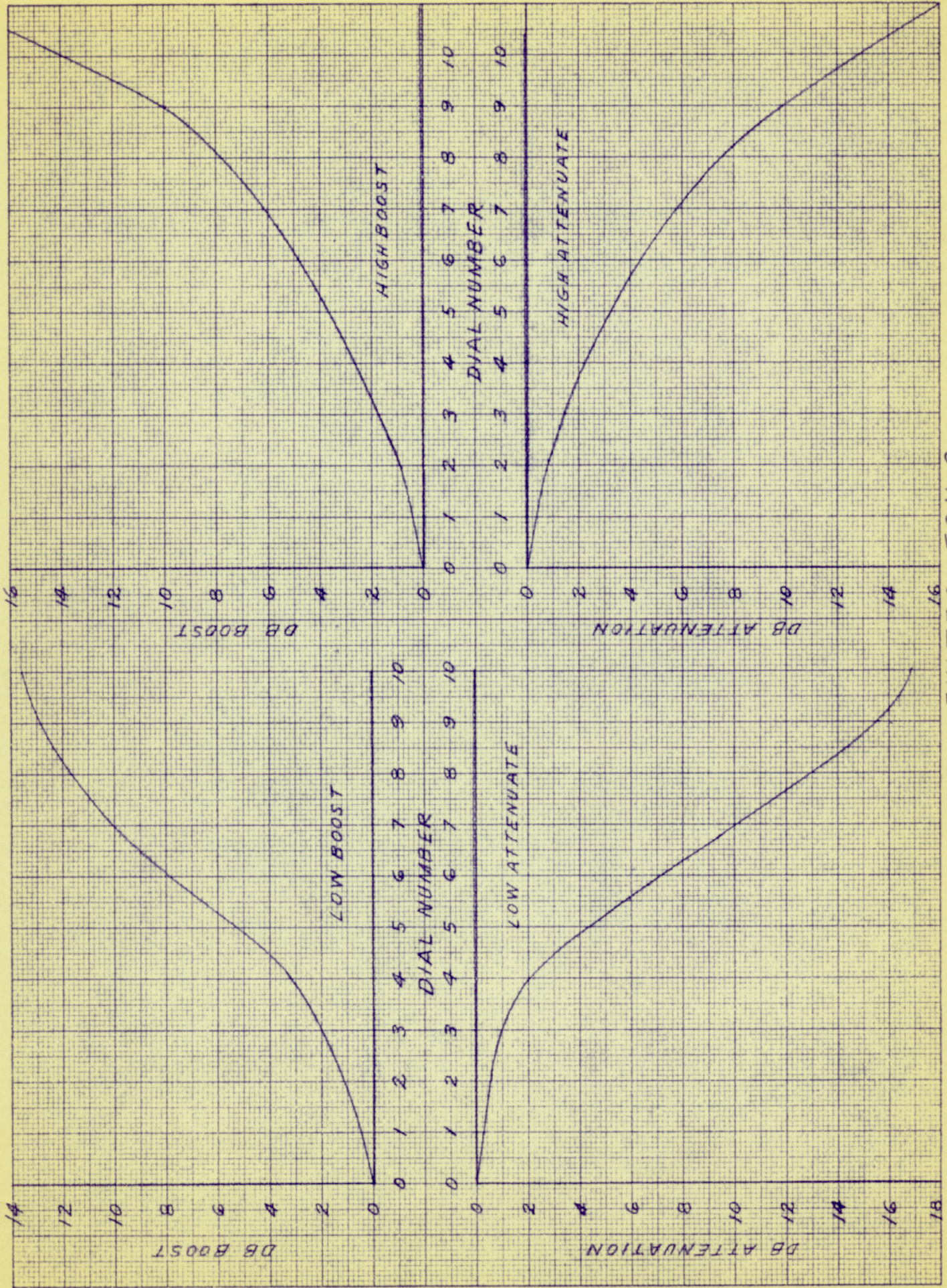


SERIAL NO.

PULSE TECHNIQUES, INC.
WEST ENGLEWOOD, N.J.

MODEL EQH-2
PROGRAM EQUALIZER

DWG. E-201,260



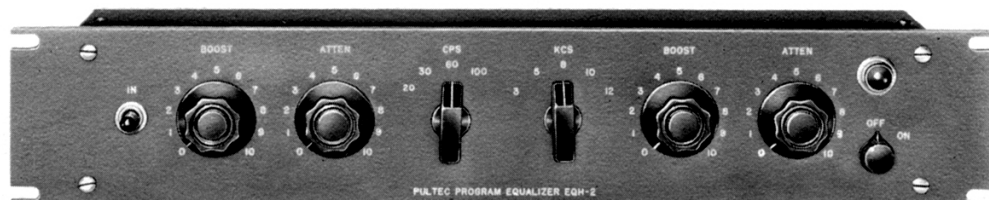
PULTEC® PROGRAM EQUALIZER

NO LOSS

PASSIVE

COMPACT

MODEL
EQH-2



It is usually those tones on the extreme ends of the musical spectrum which lose their proper perspective in the many steps between the musician and the ultimate listener. The wide range of equalization curves provided in the Model EQH-2 makes it possible to correct the low and high frequency notes of the orchestra without "muddying up" the middle register instruments.

In addition to the generous choice of frequencies provided, the effectiveness of this equalizer is further enhanced by the availability of 16 db of boost and 16 db of attenuation on the high frequency curves. Low frequency curves provide up to 13.5 db of boost and 17db of attenuation.

Continuously variable controls permit changing the amount of equalization, even on sustained tones, without steps in level, or noise.

All controls are clickless and a key permits cutting equalization in and out on cue.

CAPABLE:

20, 30, 60, 100 cps Shelf } **Boost**
3, 5, 8, 10, 12 kcs Peak }

20, 30, 60, 100 cps Shelf } **Attenuate**
10 kcs Shelf }

LOSSLESS:

Amplifier follows **Passive equalizer**

SMALL SIZE:

Only 3½" high.

Specifications

20, 30, 60, 100 cps shelf boost, 0 to 13.5 db.

20, 30, 60, 100 cps shelf attenuate, 0 to 17 db.

3, 5, 8, 10, 12 kcs peak boost, 0 to 16 db.

10 kcs shelf attenuate, 0 to 16 db.

LOSS: None. Insertion loss restored by amplifier.

INPUT TRANSFORMER: 600, 250 and 150 ohms.

OUTPUT TRANSFORMER:

For use into loads of 600, 250 and 150 ohms.

NOISE: 87 db below + 10 dbm.

DISTORTION: 0.15% at + 10 dbm into 600 ohms.

IN-OUT KEY: Switches equalization in and out without clicks or changes in level.

AMPLIFIER: Flat, 20 cps to 20 kcs; +0, -1 db.

TUBES: 1 each ECC-83/12AX7, 6AQ5, 6X4 included.

POWER REQUIRED: 117 volts, 50/60 cps, 25 watts.

PANEL SIZE: 3½" x 19". Depth behind panel 7¾".

PANEL FINISH: Pultec blue-gray baked enamel. Engraved.

MOUNTING: Standard EIA rack mount.

NET WEIGHT: 12 pounds.

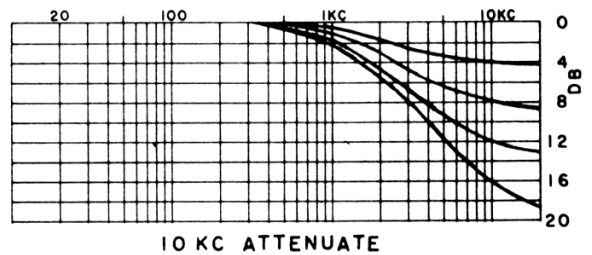
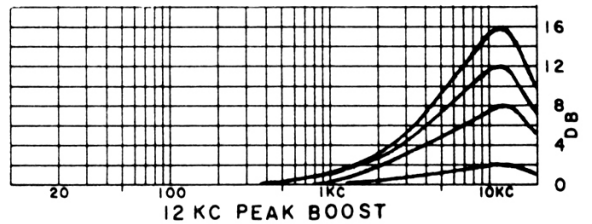
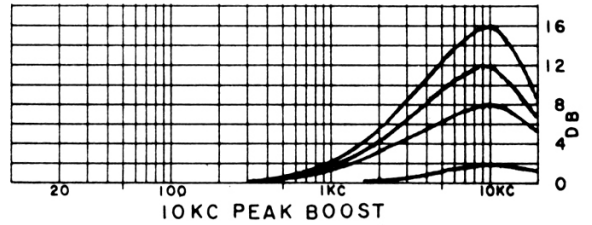
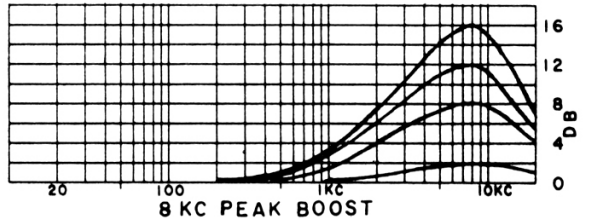
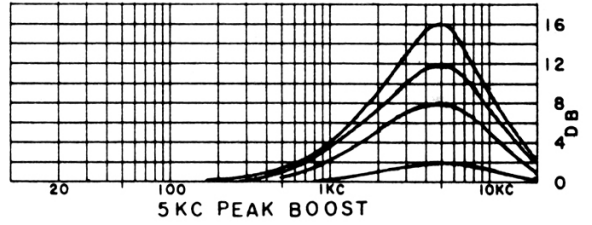
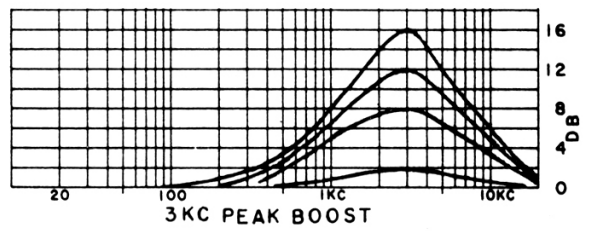
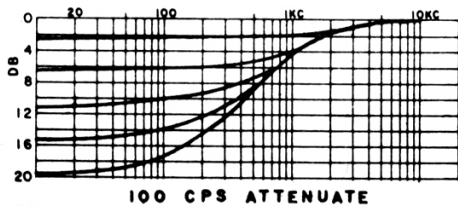
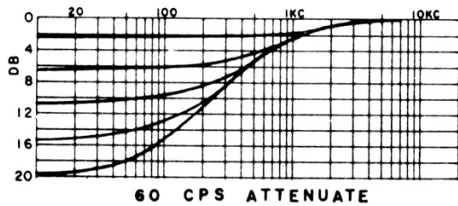
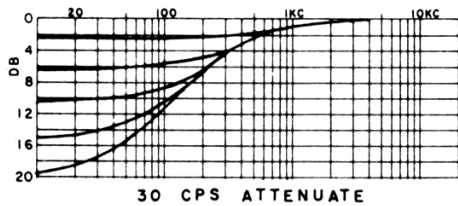
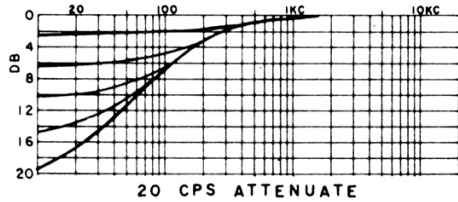
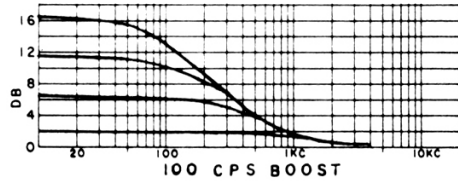
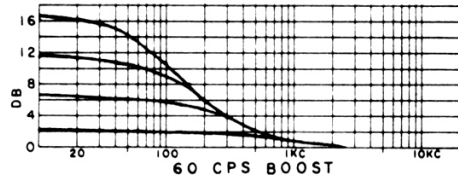
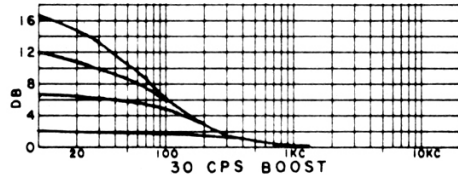
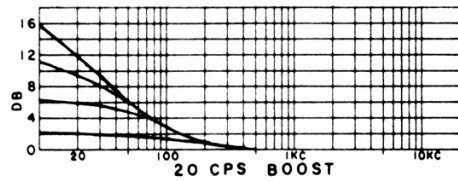
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201 TEANECK 7-2575

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The boost and attenuate controls are continuously variable. Therefore, the curves in the above families represent typical settings, not steps.