Cathan

PFB-150 WD

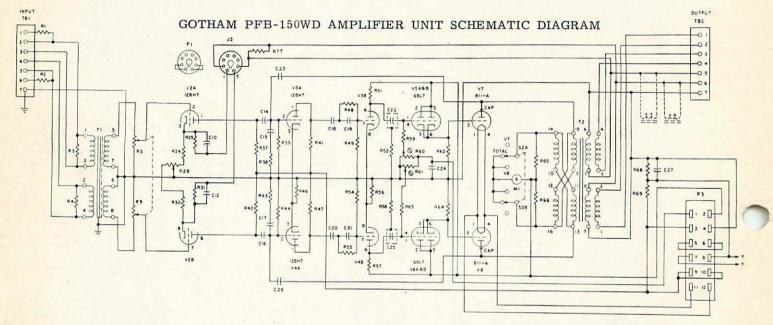


GOTHAM AUDIO DEVELOPMENT CORP. 2 West 46 Street, New York 36, N.Y.

DESIGN & APPLICATIONS

The Model PFB-150WD Power Amplifier consists of five push-pull, carefully balanced stages. The critically designed and built input transformer maintains its balance and frequency response from 10-40,000 cycles/second. Three RC coupled voltage-amplifier stages feed the cathode follower driver. The extremely high mutual conductance of the parallelled driver tubes provide an effective 30-ohm drive to the positively biased

high-mu output triodes. Eight separate windings of the toroidally wound output transformer, provide a multitude of output impedance combinations while maintaining a high degree of coupling. The heavy-duty Xenon-filled rectifiers, together with over-sized transformers and chokes, give excellent regulation, permitting high power output with a relatively low output plate voltage of 550 volts.



PERFECT AS -

High-Power variable frequency source, when used in conjunction with any low-distortion oscillator, for the testing of transformers, motors, inductors, loudspeakers, and any other application requiring a stable, low-distortion power source.

Top Quality Audio Amplifier for effective voice and music reproduction combining unbelievably low noise, high efficiency, and power to spare in such widely varied applications as:

Motion Picture Theaters and Drive-In's Public Address Systems Stereophonic Multi-Speaker installations Industrial Sound Systems High-Fidelity Home Installations Disk Recording

- Driver to Class "B2" Modulators in high-fidelity AM Broadcasting Transmitters.
- Driving Source for Magnetostrictive and other Ultra-Sonic Devices.

POINTS OF INTEREST:

TOROIDAL OUTPUT TRANSFORMER
General Radio manufactured - - eliminates
switching transients - lowest distortion.

811-A RUGGED OUTPUT TRIODES JAN-approved - Working well below CCS dissipation and voltage ratings.

OIL-FILLED COUPLING CONDENSERS
Hermetically sealed for trouble-free operation.

Vented Tube Shields

OIL FILTER CAPACITORS

1% Precision Metal-Film & Wire-Wound Resistors in all plate and feedback circuits for maximum stability.

Thermistor-timed warmup period released by Edison Thermal Relay after 15 sec.

> All Components and Tubes working well below their maximum ratings, insuring long, dependable life.

Class A₂ operation at power levels below 40 watts insures low distortion at low power.

Sealed Transformer

> 3B28 XENON-FILLED RECTIFIERS Efficient - Rugged - Long-lasting

POSITIVELY BIASED 811-A's with unlimited drive, deliver short-duration peaks of up to 400 watts with perfect stability.

SPECIFICATIONS:

INPUT IMPEDANCE 150/600 ohms balanced or unbalanced; 2500/10,000

ohms balanced bridging; 5000 ohms unbalanced bridging; (100,000 ohms bal. or unbal. on special order)

8 - 16* - 32 - 93*ohms (4 - 16 - 32* - 93* ohms on OUTPUT IMPEDANCE

special order at no extra charge).

(*) Denotes winding with center-tap grounded to chassis.

At 10 watts - ±. 5 db from 20 - 40,000 cycles/second; FREQUENCY RESPONSE

At 150 watts - ±. 5 db from 40 - 15,000 cycles/second;

RMS HARMONIC DISTORTION Less than . 7% at 150 watts from 40 - 15,000 c/s;

Less than . 7% at 200 watts at 1,000 cycles; Less than . 15% at 20 watts at 1,000 cycles;

Less than 1% for Peak-Power not exceeding 200 watts; INTERMODULATION

VOLT & AMPERE OUTPUT 25 V @ 5 A; 50 V @ 2.5 A; 72 V @ 2 A; 125 V @ 1.2 A;

Regulation better than 3% - no load to full load.

DAMPING FACTOR 40 or better; (Changeable as required)

GAIN 50 db with 600 ohm input; adjustable in 2 db steps on

panel; (Additional gain of 35 db available on special order!)

INPUT REQUIREMENT 1 volt (approx. +2 dbm) input to 600 ohms for 150 watts

(+51.8 dbm) output; Max. input to 600 ohms - +20 dbm;

Max. input to bridging inputs - +36 dbm;

NOISE LEVEL 100 db below 150 watts output or better;

DUTY CYCLE Continuous

POWER CONSUMPTION 2.8 amps at no output; 5.5 amps at 150 watts output;

117 volts 50-60 cycles (230 volts on special order);

MOUNTING 19" standard RETMA relay rack notching; two (2)

chassies each occupying 10 1/2" vertical rack space. Interconnecting cord supplied for adjacent mounting;

TUBE COMPLEMENT 1 - 12AX7 2 - 811-A

> 2 - 12BH7 2 - 3B28

2 - 6BL7

10 1/2" high x 19" wide x 11" deep each chassis. DIMENSIONS

WEIGHT Amplifier - 39 lbs. net; Power Supply - 68 lbs. net;

FINISH Light-grey class "A" baked enamel; Control panels

natural brushed and anodized aluminum - engraved;

DELIVERY From New York stock; Modified units 4 - 6 weeks;

GUARANTEE Workmanship and materiel for one (1) year from date

of purchase; Tubes guaranteed by manufacturer - 90 days;

PRICE PFB-150WD Power Amplifier, complete - - - \$ 670.00

> PFB-150WD-1 - Same as above except Duty Cycle continuous only for voice and/or music and Sine-Wave output below 100 watts - - - - - - - - - \$ 620.00

Terms - Net 30-days, FOB New York, N.Y.

Reeves Equipment Corp. 10 East 52nd Street New York City 22