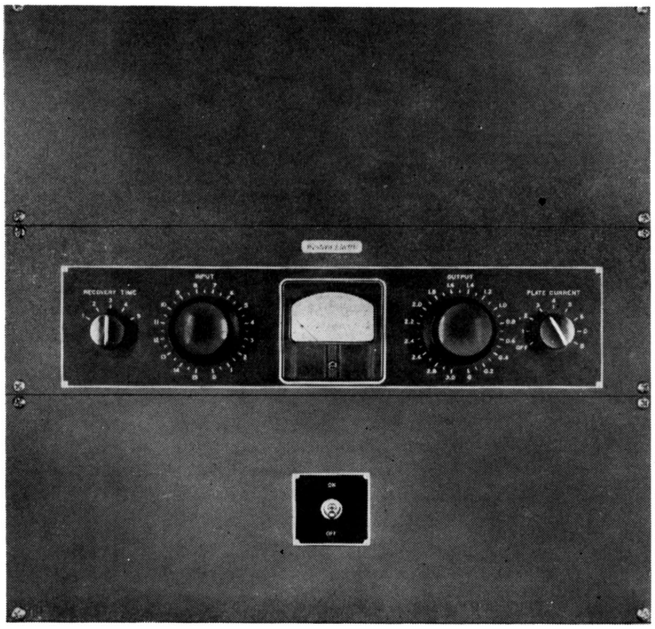
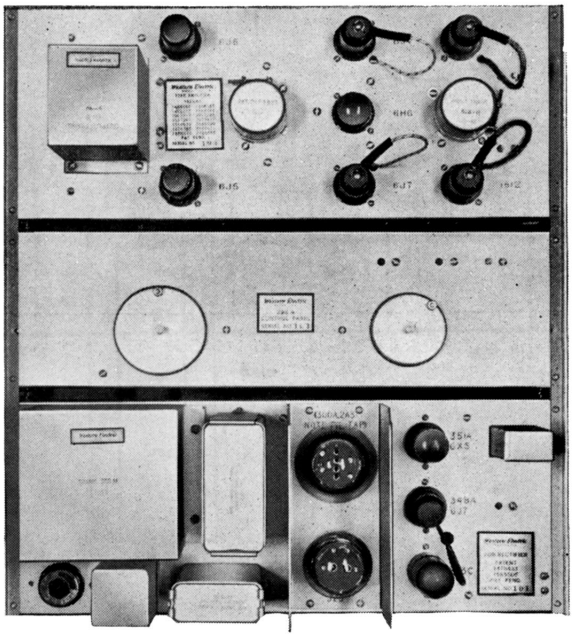
Western Electric Company

No. 1126-A AMPLIFIER





No. 1126-A AMPLIFIER

Type

Audio frequency program operated level governing amplifier containing means to reduce its gain when the input level reaches a pre-determined amount. Consists of 126A Amplifier (three push-pull stages), 298A Control Panel and 20A Rectifier.

NOTES: *Detailed operating instructions for the 20A Rectifier are contained in Instruction Bulletin No. 978.*

Typical Electrical Characteristics

Gain — 37 db as delivered when working from 600 ohms and into 600 ohms, both adjustable attenuators at zero attenuation. (53.5 db maximum with all fixed input and output attenuators omitted.)

Operates from — 600 ohms.

Operates into — 600 ohms.

Output Power — +17 db* (approximately) single frequency as delivered with adjustable output attenuator at zero when gain reduction starts. (+23.5 db, approxin ly, with all fixed output attenuators omitted.)

Output Noise — 45 db below .001 watt unweighted. 69 db below output level available when gain reduction starts.

Output Distortion — For Program: Less than 1 per cent for all operating conditions up to 5 db compression. For single Frequency Tone: (a) Below compression; less than 1 per cent. (b) for 5 db compression; less than 1 per cent for frequencies above 200 cycles and not more than 1¾ per cent for frequencies as low as 50 cycles.

Frequency Characteristic — Flat within 1 db of the 1000 cycle value over the range 30 to 15,000 cycles.

Power Supply — 105 to 125 volts, .7 ampere, 60 cycles a-c.

Compression Ratio — 10:1 (10 db input increase results in 1 db output increase above single frequency input level of —20 db referred to .001 watt as delivered).

Recovery Time — Variable in 5 steps of .2 second each from .2 second to 1 second.

* *Referred to .001 watt.*

Instruction Bulletin No. 1000 P, Issue 2

No. 1126-A AMPLIFIER

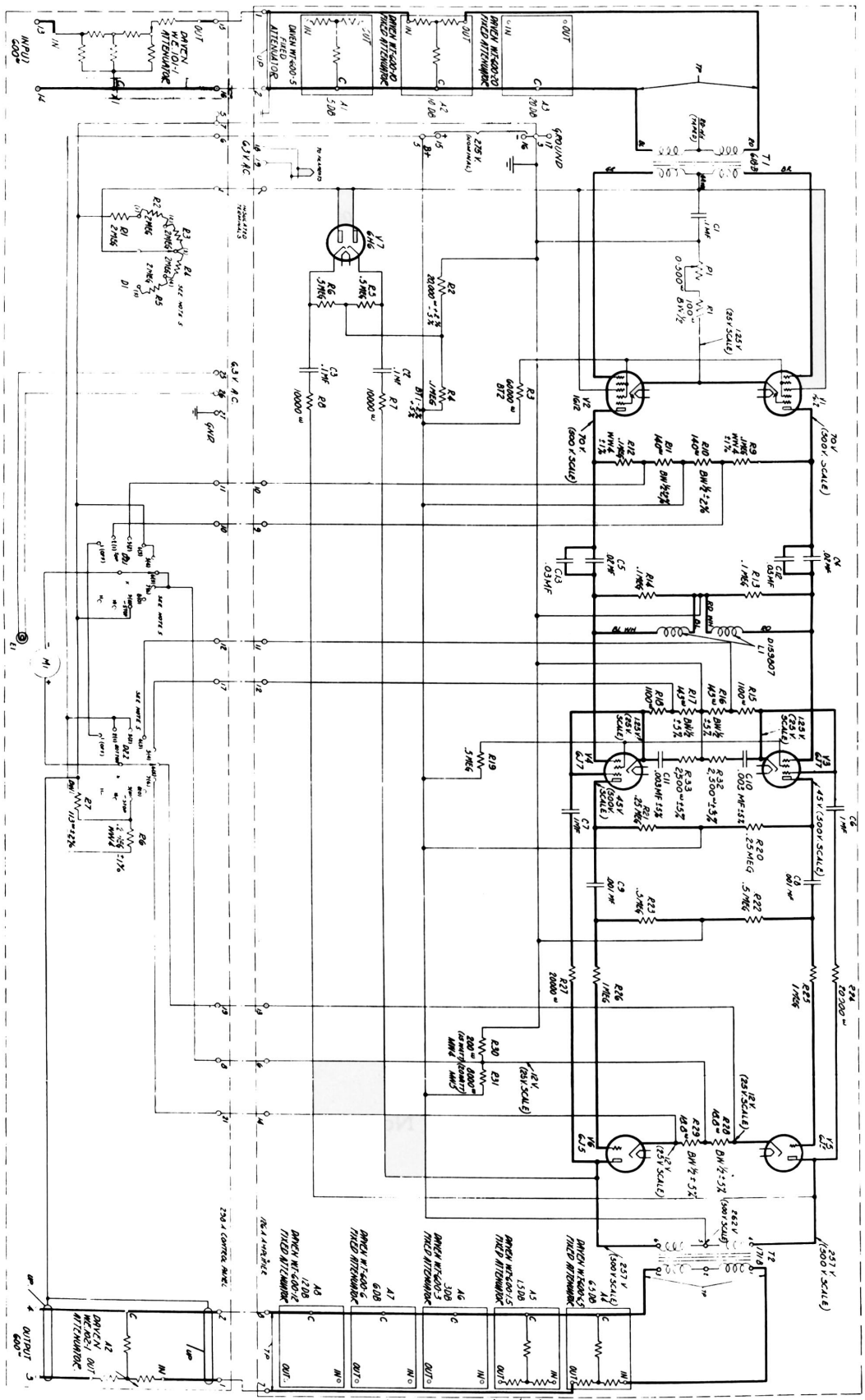


Figure 1 — Schematic — 126A Amplifier and 298A Control Panel