

No.80-A AMPLIFIER

COMMERCIAL PRODUCTS
APPARATUS REFERENCE SHEET

NO	I-15
AMPLIFIER	
80A & B	
12-8-38	

80A AMPLIFIER

ELECTRICAL CHARACTERISTICS

GAIN.....31.4 DB $\pm$ 1 DB
OPERATES FROM.....30 OHMS
INTERNAL
INPUT IMPEDANCE....HIGH (OPEN TRANSFORMER)
OPERATES INTO.....200 OR 50 OHMS
INTERNAL
OUTPUT IMPEDANCE...200 OR 50 OHMS
OUTPUT POWER.....APPROX. - 6 DB (0 LEVEL - .003 WATTS)
OUTPUT NOISE.....APPROX. - 110 DB ON DC FILA-
MENTS (UNWEIGHTED)
POWER SUPPLY.....200 V. DC FOR PLATE POWER.
10 TO 12 V. AC OR DC FOR
FILAMENTS. A COMPLETE POWER
SUPPLY MAY BE OBTAINED FROM
AN 86 OR 92 TYPE AMPLIFIER.
A 716A APPARATUS UNIT IS RE-
QUIRED IN SUCH CASE FOR FIL-
TERING THE PLATE SUPPLY.
GAIN CONTROL.....NONE

VACUUM TUBE

ONE 262A VACUUM TUBE IS REQUIRED.

EQUIPMENT CHARACTERISTICS

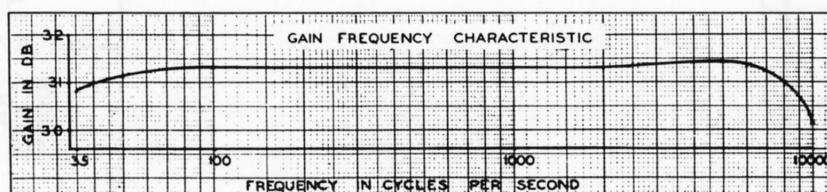
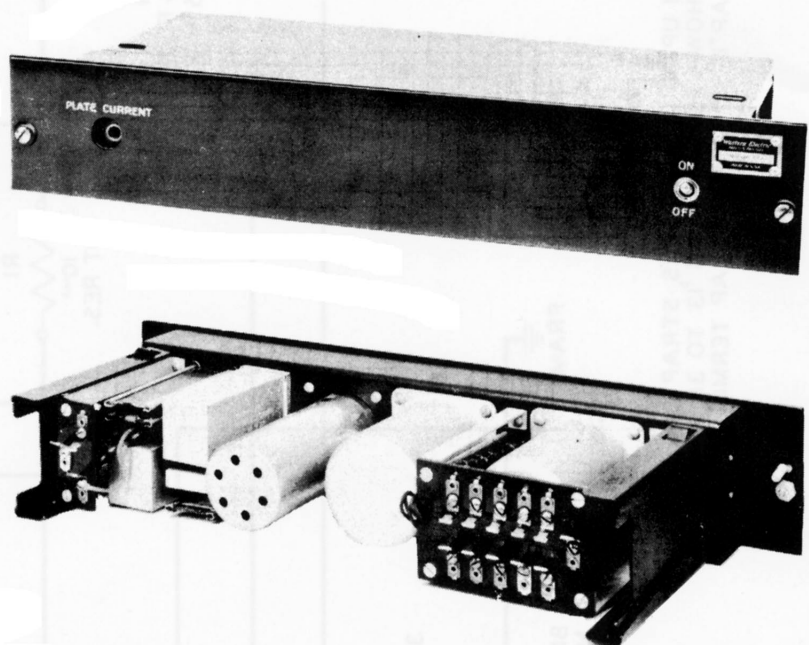
WEIGHT.....APPROX. 16 POUNDS
PANEL SIZE.....19-5/32 X 3-15/32
DEPTH.....7-5/16
MOUNTING.....STD. 19" RELAY RACK
FINISH.....BLACK JAPAN

REFERENCES

INSTRUCTION BULLETIN NO. 638 ON 80A AMPLIFIER
ESO-341102 - ASSEMBLY
ESO-341114 - SCHEMATIC (80A)
ESO-341115 - WIRING DIAGRAM (80A)
ESO-343460 - SCHEMATIC (80B)
ESO-343461 - WIRING DIAGRAM (80B)

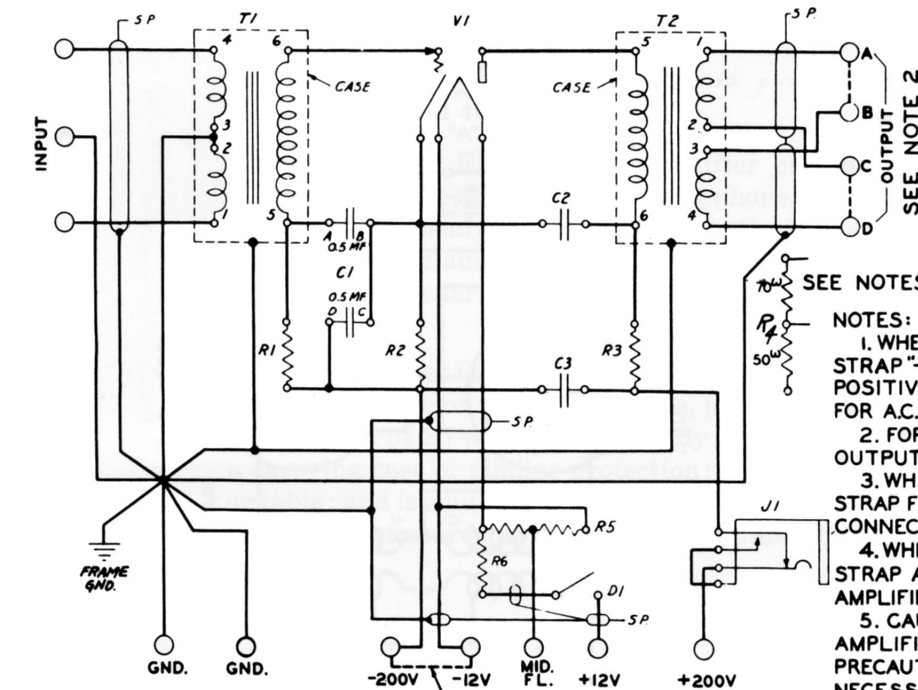
80B AMPLIFIER

NOTE: THE 80B AMPLIFIER IS THE SAME AS THE 80A
AMPLIFIER EXCEPT THAT IT USES THE 264B
INSTEAD OF THE 264A INPUT TRANSFORMER AND
THEREFORE OPERATES FROM 200 OR 50 OHMS
INSTEAD OF FROM 30 OHMS.



FOR WIRING DIAGRAM AND SCHEMATIC SEE REAR OF THIS SHEET

No.80-A AMPLIFIER



SEE NOTE I

PATENT

1329283	1459412
1349252	1507994
1398665	1530649
1377405	1530981
1403932	1718946
1453982	

DESIG.	APPARATUS
T1	264A INPUT TRANS.
T2	150A OUTPUT TRANS.
C1	141C COND. .5MF. - .5MF.
C2,C3	138A COND. 1MF.
J1	303A JACK
R1	38W RES. 100,000 ω
R2	18 DS RES. 1,700 ω
R3	38N RES. 24,000 ω
R4	19DL - RES. 50 ω - 70 ω
R5	19DY RES. 500 ω - 500 ω
R6	18GS RES. 4.5 ω
D1	20992 H & H SWITCH S.P.S.T. 3 AMP. 250 VOLTS
V1	262A VACUUM TUBE

1. WHEN NEGATIVE OF FIL. BATT. IS GROUNDED STRAP "-200V" TO "-12V" AS SHOWN. WHEN POSITIVE IS GROUNDED STRAP "-200V" TO "+12V" FOR A.C. OPERATION STRAP "-200V" TO "MID. FL."
2. FOR 200^W OUTPUT STRAP "B-C"; FOR 50^W OUTPUT STRAP "A-B" AND "C-D".
3. WHEN USING TWO AMPLIFIERS IN CASCADE STRAP FIRST AMPLIFIER FOR 50^W OUTPUT AND CONNECT 70^W SECTION OF R₄ ACROSS "A-D".
4. WHEN USING THREE AMPLIFIERS IN CASCADE STRAP AND CONNECT FIRST AND SECOND AMPLIFIER OUTPUTS AS IN NOTE 3 ABOVE.
5. CAUTION - WHEN EITHER 2 OR 3 AMPLIFIERS ARE USED IN CASCADE SPECIAL PRECAUTIONS REGARDING OUTPUT LEVEL ARE NECESSARY. SEE INSTRUCTION BULLETIN.