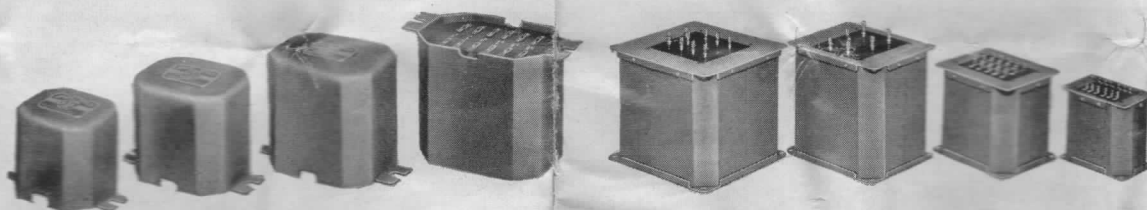




TERMINAL ARRANGEMENTS

TYPE CG TRANSFORMERS



UNITED TRANSFORMER COMPANY

150 VARICK STREET

• NEW YORK 13, N. Y.

EXPORT DIVISION: 13 EAST 40th STREET, NEW YORK 16, N. Y.

CABLES: "ARLAB"



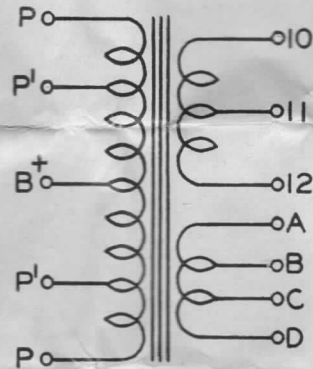
OUTPUT TRANSFORMERS

SECONDARY LOAD

500 OHMS
200 OHMS
70 OHMS
16 OHMS
8 OHMS
5 OHMS
3 OHMS
1.5 OHMS

CONNECT TO:

10 & 12
10 & 11
11 & 12
A & D
A & C
B & D
A & B
C & D



TYPE No.	PRIMARY REFLECTED IMPEDANCE	TYPICAL TUBES	CONNECT PLATES TO:	MAX. WATTS
CG-2L6	9,000 OHMS	2-6L6 AB ₁	P, P	30
CG-4L6	3,800 OHMS	2-6L6 AB ₂	P', P'	55
CG-4L6	4,500 OHMS	4-6L6 AB ₁	P, P	55
CG-15	8,000 OHMS	2-45, 6N7 class B	P, P	20
CG-16	3,000 OHMS	2-2A3, 2-6B4G, AB ₁	P', P'	20
CG-16	5,000 OHMS	2-2A3 class A, 2-6L6 class A	P, P	20
CG-19	6,000 OHMS	Triode 6F6's AB ₂ , Fixed Bias	P', P'	20
CG-19	10,000 OHMS	2-6V6, 2-6F6, 2-6N6-G	P, P	20
CG-710	14,000 OHMS	2-47, 2-6K6, 2-7B5	P', P'	20
CG-710	20,000 OHMS		P, P	20

POWER TRANSFORMERS

Terminal	CG-422	CG-428	CG-429	CG-431
1	PRI}	PRI}	PRI}	PRI}
2	PRI}	PRI}	PRI}	PRI}
3	435	500 v	600 v	500 v
4	365	C.T.	525 v	400 v
5	C.T.	500 v	C.T.	C.T.
6	365	80 v	525 v	400 v
7	435	C.T.	600 v	500 v
8	125	80 v	5v3A	80 v
9	C.T.	5v3A	5v3A	C.T.
10	125	C.T.	6.3v3A	80 v
11	5v3A	5v3A	C.T.	5v6A
12	5v3A	5v2A	6.3v3A	5v6A
13	5v2A	C.T.	7.5v3A	5v2A
14	5v2A	5v2A	6.3v4A	5v2A
15	6.3v3A	6.3v4A	C.T.	6.3v5A
16	C.T.	C.T.	6.3v4A	C.T.
17	6.3v3A	6.3v4A	7.5v3A	6.3v5A
18	2.5v5A	6.3v3A	—	6.3v3A
19	C.T.	2.5v3A	—	C.T.
20	2.5v5A	C.T.	—	6.3v3A
21	—	2.5v3A	—	—
22	—	6.3v3A	—	—

BIAS TRANSFORMERS

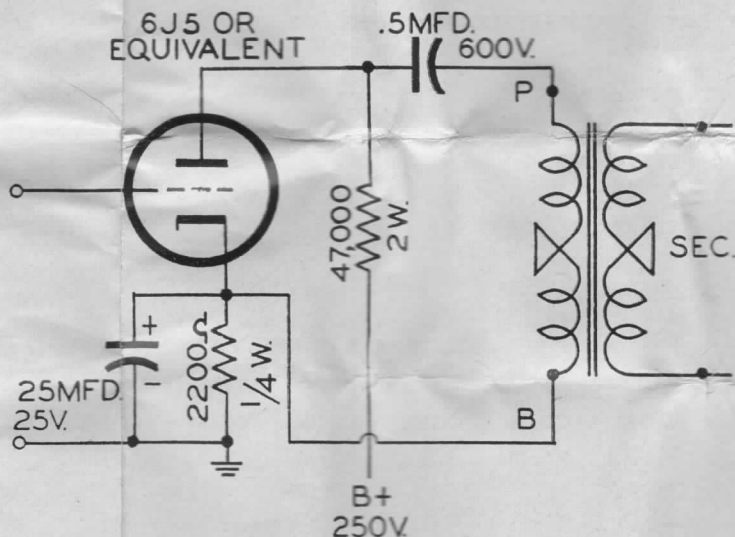
CG-315, CG-316

Secondary Terminals	Primary Terminals 115 V. 50/60 cycles	CG-315		CG-316	
		A.C. Volts each side	D.C. Volts	A.C. Volts each side	D.C. Volts
8-10-11-13	1-2	155	100	490	400
	1-3	141	87	445	360
	1-4	129	76	406	326
	1-5	119	67	376	298
	1-6	111	60	350	275
9-12-13	1-7	106	55	326	254
	1-2	94	45	300	230
	1-3	86	37	273	206
	1-4	78	30	249	184
	1-5	72	25	230	167
9-10-11-12	1-6	67	20	214	152
	1-7	63	17	200	140
	1-2	61	15	190	132
	1-3	55	10	173	117
	1-4	51	6	159	103
	1-5	47	3	147	92
	1-6	44	—	137	83
	1-7	41	—	127	74



INPUT, INTERSTAGE, MIXING AND LOW LEVEL OUTPUT TRANSFORMERS

RECOMMENDED SHUNT-FED CIRCUIT
FOR CG-131, CG-132, CG-136,



TYPE No.	APPLICATION	PRIMARY CONNECTIONS	SECONDARY CONNECTIONS	URNS RATIO (Full Sec. to Full PRI)
CG-131	Triode Plate to Single Grid	Connections Marked On Terminal Board	Connections Marked On Terminal Board	3:1
CG-132	Triode Plate to P.P. Grids	Connections Marked On Terminal Board	Connections Marked On Terminal Board	3:1
CG-133	P P Plates to P P Grids	Connections Marked On Terminal Board	Connections Marked On Terminal Board	1.6:1
CG-134	Line to Single Grid	50 OHMS: Connect to 2 & 5, join 2 to 4, join 3 to 5 200 OHMS: connect to 1 & 3 500 OHMS: connect to 1 & 5, join 3 to 4	Connections Marked On Terminal Board	12.7:1
CG-135	Line to P P Grids	SAME AS CG-134	Connections Marked On Terminal Board	15.5:1
CG-136	Triode Plate, and Low Impedance Mike or Line to 1 or 2 Grids	50 OHMS: 1 & 2 200 OHMS: 1 & 3 Single Plate: P & B	Single Grid: Connect Grid to 6, return to 9, join 7 & 8 PP Grids: Connect to 7 & 8, join 6 & 9 for common return	2.3:1
CG-137	Mixing	50 OHMS: 1 & 2 200 OHMS: 1 & 3 500 OHMS: 1 & 4	50 OHMS: 5 & 6 200 OHMS: 5 & 7 500 OHMS: 5 & 8	1:1
CG-140	Triode Plate to Line	Connections Marked On Terminal Board	50 OHMS: 1 & 2 200 OHMS: 1 & 3 500 OHMS: 1 & 4	18:1
CG-141	P P Triode Plate to Line	Connections Marked On Terminal Board	Same as CG-140	13:1
CG-233	P P Triodes to P P 2A3, P P 6L6, etc.	Connections Marked On Terminal Board	Connections Marked On Terminal Board	0.9:1
CG-235	Line to 1 or 2 Grids; Special Alloy Shield	Same as CG-134	Same as CG-136	12.7:1
CG-333	P P Triodes to P P 6L6 Fixed Bias	Connections Marked On Terminal Board	Connections Marked On Terminal Board	0.5:1
CG-433	P-P45 or 2A3 to 2 or 4 6L6, Fixed Bias	Connections Marked On Terminal Board	Connections Marked On Terminal Board	0.5:1



PLATE AND FILAMENT TRANSFORMERS

PRIMARY CONNECTIONS FOR: CG33, 120, 121, 122, 124, 125, 126
CG300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312

PRI VOLTAGE	CONNECT TO TERMINALS	JOIN TERMINALS
105	1 & 2	1 & 4; 2 & 5
115	1 & 3	1 & 4; 3 & 6
210	1 & 5	2 & 4
220	1 & 5	3 & 4
230	1 & 5	3 & 4

SECONDARY CONNECTIONS NOTE: Plate Transformers CG304 through CG312 have secondary voltages marked on Terminal Board.

TERMINAL	CG33	CG120	CG121	CG122	CG124	CG125	CG126	CG300	CG301	CG302	CG303
7	6.3v4A	2.5v10A	5v25A	7.5v10A	10v10A	14v10A	14v10A	625v	580v	950v	1500v
8	6.3v4A	C.T.	C.T.	6.3v10A	C.T.	12v10A	11v10A	515v	530v	750v	1235v
9		2.5v10A	5v25A	C.T.	10v10A	11v10A	10v10A	C.T.	300v	C.T.	400v
10				6.3v10A		C.T.	C.T.	515v	C.T.	750v	C.T.
11				7.5v10A		11v10A	10v10A	625v	300v	950v	400v
12						12v10A	11v10A		530v		1235v
13						14v10A	14v10A		580v		1500v
14							14v10A				
15							11v10A				
16							10v10A				
17							C.T.				
18							10v10A				
19							11v10A				
20							14v10A				

	PRIMARY VOLTAGE	CONNECT TO	SECONDARY	TERMINAL
CG-34	105	2 & 3	2.5v10A	5
	115	1 & 3	C.T.	6
	220	2 & 4	2.5v10A	7
	230	1 & 4		

HIGH-LOW VOLTAGE CONTROL

Through use of an auxiliary double-pole double throw switch, CG series plate transformers can be arranged to deliver half voltage or full rated voltage, with instant changeover, when operated from 115 volt line. Typical applications are transmitter tune-up, low power operation, etc.

CAUTION: Do not use where there is possibility of connecting equipment to 220 volt source.

