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EX-GOVT. VALVES AND C.R. TUBES

Valve Types and Their Commercial Equivalents

(Information supplied by The Inter-Service Technical Valve Committee)

Many readers, both inside and outside the Services, who are concerned with the use of valves marked with Service names, would like to know the commercial types on which the Service types were based. The following tables give this information. The first column shows the Service names, A . . . being an Army type, N . . . a Naval type, V . . . an Air Force type, and CV . . . a common Service type. Since 1941 all valves adopted by the Services have been given " CV " titles, and later all the old A . . ., N . . ., and V . . . valves were brought into this system to eliminate overlapping. However, as large stocks of valves marked with the old Service type designations still exist and numerous equipments are marked with those names, they are made the basis of the arrangement in the first column.

A warning should be given that strict equivalence between the Service type and the given commercial type must not be assumed, as the specification for the Service valve may require selection either for electrical or mechanical requirements or both.

Original Service Name	Current Title	Other Service Names	Commercial Type
AD1	CV1314		DLS10
ARDD1	CV1300		10D1
ARDD3	CV1301		D63, 6H6G
ARDD5	CV1054	VR54	EB34
ARD2	CV1078	VR78	D1
ARD4	CV1302		D42
ARH1	CV1280	NR67	X64
ARP1	CV1118	NR39, VR118	PT2, KT2
ARP2	CV1320		SP2
ARP3	CV1321		9D2
ARP4	CV1322		SP210
ARP5	CV1323		VP2
ARP6	CV1324		SP4
ARP7	CV1325		42MPT
ARP8	CV1326		AC4/Pen
ARP9	CV1327		Pen1340
ARP9A	CV1328		7D8S
ARP10	CV1329		APP4G*
ARP11	CV1330		TSP4
ARP12	CV1331		VP23
ARP13	CV1332		210VPT, VP21
ARP14	CV1333		220IPT
ARP15	CV1195	NR86	KTW63
ARP16	CV1074	NR83, VT74	KTZ63
ARP17	CV1186	NR85	KT63, 6F6G
ARP18	CV1334		KT24
ARP19	CV1335		SP41
ARP20	CV1336		SP42
ARP21	CV1192	NR79	Z62
ARP22	CV1337		116Pen
ARP23	CV1124	NR70, VR124	MS/Pen
ARP24	CV1338		220VPT
ARP25	CV1181	NR59	KT41
ARP26	CV1340		KT44 (mod)
ARP33	CV1341		MSP4
ARP34	CV1053	VR53	EF39
ARP35	CV1091	VR91	EF50
ARP36	CV1065	VR65	SP41 (mod)
ARP37	CV1342		QP25
ARP38	CV1343		KTZ73 (mod)
ARS6	CV1317		S625
ARS7	CV1318		VS24, PM12M, S215VM
ARS8	CV1319		VS2
ARTH2	CV1347		ECH35
ARTP1	CV1344		TP22
ARTP2	CV1345		TP25
AR4	CV1303		HL210A
AR5	CV1166	NR42	LP2
AR6	CV1304		LP2
AR7	CV1109	NR55, VR109 and A	4D1
AR8	CV1306		HL23DD
AR9	CV1307		210LF
AR10	CV1308		L21DD
AR11	CV1309		4019B
AR12	CV1310		4020A
AR13	CV1311		4022AR
AR14	CV1312		220RC
AR15	CV1313		220LF
AR16	CV1032	VR32	220B
AR17	CV1037	NR31, VR37	MH4
AR20	CV1316		4021B
AR21	CV1055	NR48, VR55	EBC33
ATP4	CV1366		V248A
ATP5	CV1367		V245
ATP7	CV1368		V226
ATP10	CV1369		4061A
ATP35	CV1370		PV1–35
ATP75	CV1371		PZ1–75, SW75Pen
ATP100	CV1372		4069A
ATP600	CV1373		PY3–600
ATS25	CV1374		807
ATS70	CV1365		4282BZ
ATS250	CV1357		SG250
AT15	CV2845		LS5
AT16	CV2846		LS5B
AT20	CV1361		MZ05–20
AT35	CV1025	VT25	DET25
AT75	CV1222	NT39	ACT6
AT200B	CV1363		DET16
AU1	CV1264	NU12	FW4–500
AU2	CV1349		RG5–500, 4064A
AU3A	CV1039	NU17, VU39	MU12/14. UU5, IW4, 44IU
AU4	CV1113	NU18, VU113	U17
AU5	CV1111	VU111	V1907
AU6	CV1072	VU72	GU50, MU4250, RG1/240

Original Service Name	Current Title	Other Service Names	Commercial Type
AU7	CV1355		ESU300
AU8	CV1356		U22
AU12	CV2853		U15, RZ1–250
AW2	CV1070	VS70	7475
AW3	CV1110	VS110	S130
AW4	CV1068	VS68	STV280/40
AW5	CV1359		ME41
AW6	CV1077	VI77	EM31
CV5	CV5		GU21 (special)
CV9	CV9		AL60
CV18	CV18		RK34
CV19	CV19		EHT1
CV24	CV24		HL41
CV25	CV25		4242A
CV26	CV26		813
CV27	CV27		4357A
CV28	CV28		ACT9
CV30	CV30		4270A
CV31	CV31		U20
CV33	CV33		4077A
CV34	CV34		MR10
CV45	CV45		S130 (mod)
CV49	CV49		3B/501A
CV65	CV65		Pen25
CV66	CV66		RL37
CV71	CV71		"Osglim"
CV75	CV75		4313C
CV84	CV84		3B/102B
CV93	CV93		V625
CV152	CV152		GU21
CV173	CV173		DDR2
CV181	CV181		ECC32
CV185	CV185		PM202
CV187	CV187		U19
CV190	CV190		DLS10
CV207	CV207		AC/P4
CV216	CV216		VR150/30
CV225	CV225		ACT17
CV235	CV235		U23
CV242	CV242		GS18, CMG25
CV243	CV243		4045A
CV244	CV244		4046A
CV245	CV245		4328D
CV285	CV285		VA35
NGT1	CV1141		GDT4C
NGT2	CV1128	VGT128	GT1C
NGT3	CV1142		MR75
NGT4	CV1143		GT1A
NGT5	CV1144		BT19
NGT6	CV1145		BT9A
NGT7	CV1147		BT35
NGT9	CV1149		BT41
NR15	CV1151		I410, PM4DX
NR16	CV1153		PM254
NR16A	CV1154		PM254
NR18	CV1156		DEQ
NR22	CV1158		S410, PM14
NR23	CV1159		S410, PM14
NR26	CV1038	VR38	MHL4
NR27	CV1160		104V
NR28	CV1019	VR19	215P
NR31	CV1037	AR17, VR37	MH4
NR35	CV1163		PM2BA
NR37	CV1164		MS4, MSPen (mod)
NR38	CV1165		VMS4, MVSPen (mod)
NR39	CV1118	ARP1, VR118	PT2, KT2

Original Service Name	Current Title	Other Service Names	Commercial Type
NR41	CV1083	VR83	210VPT, VP21
NR42	CV1166	AR5	LP2
NR43	CV1167		PM24A
NR44	CV1168		ACO44, PX4
NR45	CV1169		VMP4G
NR46	CV1170		D41
NR47	CV1040	VR40	PX25, DO24, PP5/400
NR48	CV1055	AR21, VR55	EBC33
NR49	CV1056	VR56	EF36
NR50	CV1171		HA1, AT4, A40
NR51	CV1172		VP4A
NR52	CV1173		354V
NR53	CV1174		KT42, MP/Pen, Pen4VA, AC/Pen
NR54	CV1175		ZA1, AP4
NR55	CV1109	AR7, VR109 and A	4D1
NR56	CV1178		DA30, DO30
NR57	CV1179		TT4
NR58	CV1180		V312
NR59	CV1181		KT41
NR60	CV1182		H42
NR61	CV1183		W42
NR62	CV1184		A373
NR64	CV1281		KTW61
NR65	CV1282		AC/S2Pen, MSP4
NR66	CV1187		D41
NR67	CV1280	ARH1	X64
NR68	CV587		DH63, 6Q7G
NR69	CV1103	VI103	Y63
NR70	CV1124	ARP23, VR124	MS/Pen
NR71	CV1129	VR129	MS/PenT
NR72	CV1188		N43
NR73	CV1285		ECC31
NR74	CV1189		AC6Pen
NR75	CV1190		AC/P4
NR76	CV1191		KTZ41
NR77	CV1286		EL35
NR78	CV581	6C5G	6C5G
NR79	CV1192	ARP21	Z62
NR81	CV1941	6K7G	6K7G
NR82	CV1193		X65
NR83	CV1074	ARP16, VT74	KTZ63
NR84	CV1194		X41
NR85	CV1186	ARP17	KT63, 6F6G
NR86	CV1195	ARP15	KTW63
NR87	CV1196		AC5PenDD
NR88	CV1197		RL18, EC53
NR94	CV1198		AC/P4
NR95	CV1502	VR502	KT32
NS1	CV1069	VS69	STV280/80
NS3	CV1200		202
NS4	CV1201		4317
NS5	CV1202		304
NT13	CV2788		P610
NT18	CV1206		DO60, DA60
NT20	CV1208		P625, PM256
NT36	CV1219		DA100, MZ1–100
NT37	CV1220		4033A
NT38	CV1293		SW75Pen, PZ1–75, PT6
NT39	CV1222	AT75	ACT6
NT40	CV1223		DET5
NT58	CV1288		DET12, TY1–50
NT62	CV1237		PM24D
NT65A	CV1240		PZ1–35

Original Service Name	Current Title	Other Service Names	Commercial Type
NT82	CV1246		P2
NT87	CV1250		4279A
NT92	CV1252		4212E
NU5	CV1261		RX3–120
NU12	CV1264	AU1	FW4–500
NU13	CV1265		U15, RZ1–250
NU15	CV1267		U4020
NU17	CV1039	AU3A, VU39	MU12/14, UU5, IW4, 44IU
NU18	CV1113	AU4, VU113	U17
NU20	CV1268		U50
NU31	CV1279		MU2
NU33	CV1290		SU2150A
NU34	CV1134		HVR2
VGT121	CV1121		T41
VGT128	CV1128	NGT2	GT1C
VI77	CV1077	AW6	EM31
VI103	CV1103	NR69	Y63
VR18	CV1018		215SG
VR19	CV1019	NR28	215P
VR22	CV1022		220PA
VR28	CV1028		220VSG
VR32	CV1032	AR16	220B
VR35	CV1035		QP21
VR37	CV1037	NP31, AR17	MH4
VR38	CV1038	NR26	MHL4
VR40	CV1040	NR47	PX25, DO24, PP5/400
VR41	CV1041		PM12M
VR43	CV1043		210PG
VR44	CV1044		210DDT
VR49	CV1049		210SPT
VR53	CV1053	ARP34	EF39
VR54	CV1054	ARDD5	EB34
VR55	CV1055	NR48, AR21	EBC33
VR56	CV1056	NR49	EF36
VR57	CV1057		EK32
VR59	CV1059		HA2, 955, 4671
VR65	CV1065	ARP36	SP61
VR65A	CV1574		SP41
VR66	CV1066		P61
VR67	CV1067		L63
VR78	CV1078	ARD2	D1
VR82	CV1082		220TH
VR83	CV1083	NR41	220VPT, VP21
VR91	CV1091	ARP35	EF50
VR92	CV1092		EA50
VR95	CV1095		ZA2, 954, 4672
VR99	CV1099		X66
VR99A	CV1581		ECH35, E1341
VR100	CV1100		KTW62
VR101	CV1101		MHLD6
VR102	CV1102		BL63
VR106	CV1106		9D2
VR107	CV1107		15D2
VR108	CV1108		8D2
VR109	CV1109	NR55, AR7	4D1
VR116	CV1116		V872
VR117	CV1117		41MTL
VR118	CV1118	NR39, ARP1	PT2, KT2
VR119	CV1119		DDL4
VR122	CV1122		41MXP
VR124	CV1124	NR70, ARP23	MS/Pen
VR125	CV1125		MS/PenB
VR126	CV1126		4SH
VR12[illegible]	CV1129	NR71	MS/PenT
VR130	CV1130		HL23
VR135	CV1135		E1148, DET20
VR136	CV1136		RL7, EF54
VR137	CV1137		RL16, EC52
VR502	CV1502	NR95	KT32
VR503	CV1503		KT33C
VR505	CV1505		MH41
VS68	CV1068	AW4	STV280/40
VS69	CV1069	NS1	STV280/80
VS70	CV1070	AW2	7475
VS110	CV1110	AW3	S130
VT20	CV1020		220P
VT23	CV1023		230XP
VT25	CV1025	AT35	DET25
VT31	CV1031		SG250
VT34	CV1034		DET3
VT45	CV1045		X56
VT46	CV1046		PT25H
VT47	CV1047		TZ05–20, VLS417
VT50	CV1050		HL2K
VT51	CV1051		Pen220A
VT52	CV1052		EL32
VT58	CV1058		E960
VT60	CV1060		807
VT61	CV1061		4074A, DET19, RK34
VT61A	CV1573		TVO3–10 (mod)
VT62	CV1062		DET12, TY1–50
VT73	CV1073		H63
VT74	CV1074	NR83, ARP16	KTZ63
VT75	CV1075		KT66
VT75A	CV1576		KT44T
VT75B	CV1577		KT44
VT76	CV1076		DA41, TZ40
VT79	CV1079		KT8
VT80	CV1080		4307A
VT81	CV1081		4052A
VT88	CV1088		832
VT96	CV1096		5B/502A
VT104	CV1104		PT15
VT105	CV1105		ML6
VT114	CV1114		E1024
VT127	CV1127		Pen46
VT506	CV1506		5C/450A
VU39	CV1039	NU17, AU3A	MU12/14, UU5, IW4, 44IU
VU71	CV1071		U52
VU72	CV1072	AU6	GU50, RG1–240, MU4250
VU111	CV1111	AU5	V1907
VU113	CV1113	NU18, AU4	U17
VU134	CV1134	NU34	HVR2
VU504	CV1504		V1901
VU508	CV1508		V1913

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CATHODE-RAY TUBE DATA

Characteristics of Some Ex-Service Surplus Types

Compiled by D. W. Thomasson

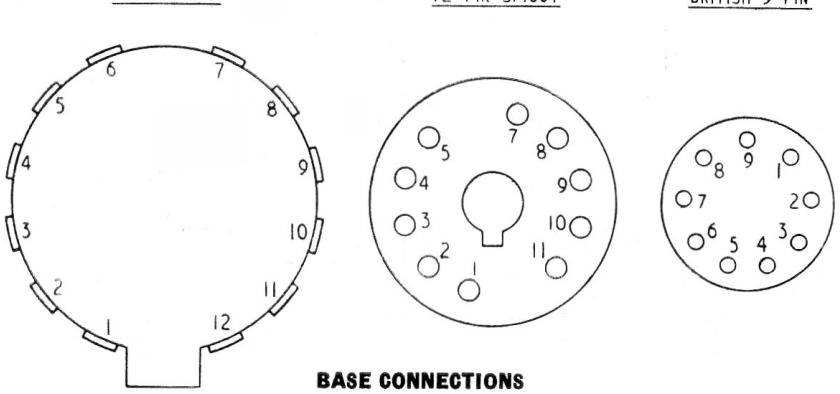
Type	Screen	Base	Size		Operating Conditions					Sensitivity	
			L	D	V_1	V_2	V_3	V_{max}	I_b	X-axis	Y-axis
NC1	G. M.	9.1	160	25	0.8	0.135	0.8	—	3	100	90
NC6	G. —	12.1	350	75	1.45	0.6	3	4	10	320	480
NC7	G. S.	12.2	630	230	1.7	1	6	6	40	1490	1270
NC12	G. S.	12.3	420	160	1.8	0.8	5	6	3	550	1000
NC14	B. —	12.3	420	160	2	0.35	2	2.5	20	600	1140
NC16	G. M.	12.4	200	70	0.8	0.12	0.8	1.5	3	150	150
NC19	G. M.	9.1	160	25	0.8	0.135	0.8	—	3	100	90
VCR97	— —	12.3	420	160	2	0.35	2	2.5	20	600	1140
VCR138	G. S.	12.3	340	85	2	0.35	2	2.5	—	750	350
VCR139A	G. M.	12.4	200	70	1.5	0.25	1.5	1.5	3	170	170
VCR522	G. M.	9.1	160	25	0.8	0.135	0.8	—	3	100	90

NOTES.—Screen type; G = Green, B = Blue, M = Medium persistence, S = Short persistence.

The connections given in the lists of bases are liable to alteration. The effective connections will usually be as shown, however, as the changes usually involve taking two leads to a common connection to avoid the necessity of strapping them externally. The addition of a suffix letter is sometimes used to indicate more extensive changes.

The dimensions given are the overall length and the effective screen diameter (mm).

V_1, V_2, V_3 are potentials in kV on first anode, focus anode and final anode, respectively; V_{max} = kV (max.) on final anode; I_b = beam current (μA). Sensitivity = mm per volt/V_3 in volts.



BASE CONNECTIONS

British Standard 9-pin Base

	1	2	3	4	5	6	7	8	9
9.1	X_1	Y_1	A_2	H C	H	M	A_1 A_3	X_2	Y_2

Standard 12-way side contact (G.E.C. type)

	1	2	3	4	5	6	7	8	9	10	11	12	Caps	
12.1	M	—	H C	H	A_1	A_2	Coa.	X_2	—	A_3	—	X_1	Y_1	Y_2
12.2	M	—	H C	H	A_1	A_2	Coa.	Y_2	X_2	A_3	X_1	Y_1	—	—
12.3	M	C	H	H	A_1	A_2	Coa.	Y_2	X_2	A_3	X_1	Y_1	—	—

12-pin spigot-type base

	1	2	3	4	5	6	7	8	9	10	11	12
12.4	C	M	H	H	A_2	—	Y_2	X_2	A_3	X_1	Y_1	—

SYMBOLS: M = Modulator (grid); H = Heater; C = Cathode; Coa. = Coating; X_1, X_2 = X-axis deflector plates; Y_1, Y_2 = Y-axis deflector plates; A_1, A_2, A_3 = Anodes numbered from the cathode. (Anodes one and three may be strapped internally, the A_1 connection being omitted. X_1 and Y_1 may be similarly treated. These variations are unpredictable.)

THE list alongside gives some of the more important data on some of the C.R. tubes now available in the surplus market. All the types given have 4-V heaters, taking about 1 A, and are of the electrostatic focus and deflection type. The figures given are average values, but considerable variation may be experienced between different tubes of the same type.

It may be noted that, while some of the types given are closely similar as far as the quoted characteristics are concerned, they are not equivalents. This may be due to different minimum spot sizes or similar factors relatively unimportant for many applications, but is often a matter of construction.

More Cathode-ray Tube Data

Further Notes on Ex-service Types

Compiled by
D. W. THOMASSON

THE following list has been compiled in response to a number of requests for an extension of the original list given in the December, 1947, issue.

A number of correspondents were anxious to have details of C.R. tubes suitable for use in television receivers, but a careful search has revealed only one type with white trace, large screen (12in) and magnetic deflection. This tube, the the CV274, has not been seen in the surplus market as yet, and it seems that television experimenters must either put up with a green or blue trace and electrostatic deflection or buy in the civilian market.

There are a good many tubes for magnetic deflection, but they are mostly of the "afterglow" type, and useless for television. It is useful to note that such screens can generally be identified by the greenish tint of the screen caused by

Type	Screen	Base	Size		Operating Conditions					Sensitivity		Remarks
			L	D	V_1	V_2	V_3	V_{max}	I_b	X	Y	
ACR1	W	—	495	136	3	0.6	3	4	15	600	675	
ACR2	As ACR1, but less stringent specification.											
ACR8	W or G	—	—	136	0.15	0.56	3	3	20	870	500	
ACR10	G	12.4	205	70	0.45	0.07	0.45	1	2	170	170	=VCR139A
ACR11	As ACR8, but with metallized outer coating.											
ACR12	G	—	620	295	4	0.8	4	5	—	650	650	
ACR13	G	—	431	160	2	0.48	3	5	15	620	1160	
NC2	G	8.1	414	136	Gas Focus		—	1.5	—	450	450	0.6 V Htr.
NC3	G	9.1	203	71	—	—	—	0.8	—	120	150	
NC4	B/G	Otherwise as NC2.										0.6 V Htr.
NC5	W	6.1	495	136	3	0.55	3	4	—	600	675	
NC8	Red	—	—	Gas focus		—	1.5	—	—	—	—	=32E
NC9	B	12.5	380	114	—	—	—	2	—	490	490	
NC10	W	6.1	495	136	3	0.55	3	4	—	600	675	
NC11	G	12.3	420	160	1.8	0.8	5	6	3	550	1000	Obsolete.
NC13	G	12.3	495	175	0.45	0.44	2.2	4	—	520	520	
NC15	G	12.6	380	116	1.2	0.35	1.2	2	—	530	370	=VCR518
NC17	D	8.2	393	90	Mag. Focus		—	15	—	Mag.	Defl.	Skiatron
NC18	Y	12.3	431	160	2	0.8	5	6	—	620	1160	=CV966
NC20	G	12.5	585	300	4	0.8	4	5	20	900	900	
VCR84	A	12.7	685	305	1.8	0.65	3.5	4	—	1175	550	Obsolete.
VCR85	A	12.7	660	300	1.8	1.6	6	7	—	1345	1300	
VCR86	A	12.7	570	160	1.8	0.97	5	5.5	—	900	700	Obsolete.
VCR87	A	12.7	512	160	3	0.7	3	5.5	—	700	750	
VCR112	G or W	—	495	135	0.2	0.56	3	3.5	—	870	500	
VCR131	G	12.7	585	300	4	0.8	4	5	—	900	900	
VCR138	G	12.3	340	90	1.2	0.2	1.2	2.5	—	357	780	
VCR138A	G	12.3	340	90	1.2	0.2	1.2	5	—	357	780	Larger screen than VCR138
VCR139A	G	12.4	205	70	0.8	0.135	0.8	1	3	170	170	
VCR140	A	8.2	587	306	Mag. Focus		5.5	6.5	—	Mag.	Defl.	
VCR511	A	12.7	585	300	4	0.8	4	6.5	—	1000	1000	2 screen variants A & B.
VCR514	G	12.3	370	90	0.8	0.28	2	2.5	—	380	580	
VCR515	B or G	—	384	90	0.2	1.2	—	1.5	—	480	400	2 anodes
VCR516	A	8.2	452	230	Mag. Focus		4	5	—	Mag.	Defl.	
VCR517	A	12.3	431	160	2	0.5	3	6	—	720	880	5 screen variants A-E
VCR518	B	12.6	380	116	1.2	0.35	1.2	2	—	530	370	Double Beam.
VCR518A	G											
VCR519	G	—	640	312	0.5	0.5	2.2	4	—	720	720	Compass.
VCR520	A	8.2	393	885	Mag. Focus		10	15	—	Mag.	Defl.	
VCR521	A	12.3	340	92	1.8	0.7	4	5	—	357	780	
VCR522A	G	9.1	145	39	0.8	0.135	0.8	1	—	90	90	
VCR523	G	12.7	660	295	1.8	1.6	6	7	—	1345	1300	Similar to VCR85.

NOTES: The screen type is given by the following symbols: A = Afterglow; (long persistence); B = Blue; B/G = Blue-Green; D = Dark Trace G = Green; W = White; Y = Yellow.

The size is given in mm, L being the overall length, and D the diameter. The operating voltages are given in kilovolts, and the beam current in μA.

V_1 = 1st anode; V_2 = 2nd anode voltage; V = 3rd anode voltage; V_{max} = maximum final anode voltage; I_b = beam current. The sensitivities are given in mm/V/V.

More Cathode-ray Tube Data—phosphorescence. After exposure to sunlight, the screen glows plainly when shaded again. This will not, of course, identify a tube with a "dark-trace" screen.

All but two of the tubes listed are 4-V heater types, the current drawn being of the order of 1 A. The deflection and focus are generally electrostatic, the exceptions being noted.

BASE TYPES

There are a large number of variations between tubes of a given type, but the connection lists are framed to cover these as far as possible.

	1	2	3	4	5	6	7	8	9	10	11	12	Side Caps
6.1	K	G	H	H	A_2	A_1	—	—	—	—	—	—	A_3 ; Y_1 ; Y_2 ; X_1 ; X_2. 6-clip type.
8.1	A	Y_1	F	X_1	G	Y_2	F	X_2	—	—	—	—	— — — — — 8-pin spigot.
8.2	—	H	—	—	G	—	H	K	—	—	—	—	A — — — — Int. Octal.
9.1	X_1	Y_1	A_2	H,K	H	G	$A_{1,3}$	X_2	Y_2	—	—	—	— — — — — Brit. 9-pin.
12.1	G	—	H,K	H	A_1	A_2	Coa	X_2	—	A_3	—	X_1	Y_1 ; Y_2. — — — 12-way S.C.
12.2	G	—	H,K	H	A_1	A_2	Coa	Y_2	X_2	A_3	X_1	Y_1	— — — — — 12-way S.C.
12.3	G	K	H	H	A_1	A_2	Coa	Y_2	X_2	A_3	X_1	Y_1	— — — — — 12-way S.C.
12.4	K	G	H	H	A_2	—	Y_2	X_2	A_3	X_1	Y_1	—	— — — — — 12-pin Spigot.
12.5	K	G	H	H	—	A_2	—	Y_2	X_2	A_3	X_1	Y_1	— — — — — 12-pin Spigot.
12.6	K	G	H	H	—	A_2	A_4	Y_2	X_2	A_3	X_1	Y_1	— — — — — 12-pin Spigot.
12.7	K	G	H	H	A_1	A_2	Coa	Y_2	X_2	A_3	X_1	Y_1	— — — — — 12-way S.C.

SYMBOLS: G = Grid (Modulator); H = Heater; K = Cathode; Coa = Coating (Internal); X_1, X_2, Y_1, Y_2 = X- and Y-axis deflector plates A_1 = 1st anode; A_2 = 2nd anode; A_3 = 3rd anode; A_4 = Splitter plate in double-beam tubes.

The probable variations are: Coating and A_1 to A_3, K to H, and X_1, Y_1 to A_3.

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