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MILITARY HANDBOOK

**ELECTRON TUBES,
CROSS INDEX AND TYPE
IDENTIFICATION**



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DEPARTMENT OF DEFENSE
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Cross Index and Type Identification
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1. This standardization handbook was developed by the Bureau of Ships, Department of the Navy, for use by the Department of Defense.
2. This publication was approved on 5 November 1963 for printing and inclusion in the military standardization handbook series.
3. This handbook furnishes information relative to the cross indexing and type identification of electron tubes.
4. Recommended corrections, additions, or deletions should be addressed to the Chief, Bureau of Ships, Department of the Navy, Washington, D.C. 20360.

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CONTENTS

1. The first column, titled "Tube Type" lists in numerical-alphabetical order all type numbers covered by this handbook. (See EXPLANATION OF LISTING SEQUENCE).
2. The second column, titled "Current Service Designation" is the approved service designation for the type.
3. The third column, titled "Other Number" contains other designations by which the same type has been known.
4. The fourth column, titled "Class Description" gives a brief description of the tube and its application, and will serve to identify the tube as well as to differentiate between unlike types having the same number. The description includes guides by specific words, defined as follows:
 - "Obsolete" does not imply that a type is no longer used, but that it will not be manufactured.
 - "Similar to" denotes those types which have similar electrical characteristics but may differ in basing, heater voltage or physical size.
 - "Selected" indicates a tube type specially tested for particular characteristics.

INTRODUCTION

1. The purpose of this publication is to provide as complete a list as possible of electron tube types used in Armed Services equipments or stocked in depots, together with a cross reference to any other type numbers or designations these tubes may have. Crystal rectifiers and transistors are not included except for occasional items where their nomenclature may be confused with tube type numbers.

2. The inclusion of an electron tube type in this document does not in itself constitute any recommendation(s) for or against its use. Designers of new equipments should refer to "MIL-STD-200, ELECTRON TUBES, SELECTION AND USE OF".

EXPLANATORY NOTES

1. The letter "W" immediately following the end of a tube type designation indicates a tube which has been modified for military usage, either with respect to environmental characteristics, reliability, or both. Usually it can be used in the same socket as its prototype, but it may be of different overall physical dimensions or have a slightly variant heater current.

2. GT/G. There has been considerable misunderstanding throughout the service as to the relationship among tubes marked G, GT, and GY/G. The GT/G group of tubes was manufactured primarily for equipment built for civilian use. Because of similarity in electrical characteristics of tubes of certain G and GT types, manufacturers discontinued the G types and thereafter branded the GT, GT/G. Tubes of the latter two types, (GT and GT/G) are identical electrically and mechanically, and so are interchangeable and can be stocked together. Their correct service designation is now GT. They are smaller than those of the G type, however, and may have other mechanical and electrical differences, so that replacement of G tubes by GT or GT/G tubes, while it may be possible, should first be approved by those responsible for the operation of the equipment.

3. Explanation of listing sequence. -

1. Tube type designations containing letters only are listed first and are in alphabetical sequence.

2. Tube type designations containing letters and numerals are listed next in numeric-alphabetic sequence.

a. All designations with "1" in them precede all with "2" which precede all with "3", etc. (Note: "10" follows "9" and precedes "11".)

b. Within a given numeric group, those designations with alphabetic prefixes come first and are listed in alphabetic order of the prefix. (Note: within a prefix a "-" precedes any letter of the alphabet.)

INTRODUCTION

Example:

BL1	TT1
BS1	V1
CE1	1
D1	A2
GM-M1	BL2
GMHM1	CE2
NU1	ZA2
O1	ZP2
RE1	2

c. Within a given numeric group, whenever the number (or the number and prefix if both exist) is identical, the sequence is alphabetic according to the letters appearing next after the number. (Note: "-" or "/" precedes in sequence any letter of the alphabet.)

Example:

BL1	NU1V
BS1	O1
CE1	RE1
CE1A/B	TT1
CE1C	V1
D1	1
GM-M1	1-A
GM-M1M	1A
GMHM1	A2
NU1	2
NU1RBL	

d. When the alphabetic prefix, the numerical, and the first letter or letters following the numeral are the same, the further sequence is based upon the number next following, then the letter following that, etc.

Example:

1	1B1
1-15	1B3GT
1A1	1B3GT/8016
1A5G	6M-M1M2
1A5GT	6M-M1M20
1A5GT/G	6MH-MK1MOD10
1AB5	

Tube Type	Current Service Designation	Other Number	Class Description
AD	IV		See IV
AF	82		See 82
AG	83		See 83
AMP-VR	8H/8H/3		See 8H/8H/3
BA	1009/BA		See 1009/BA
BH	BH		Receiving duodiode gaseous rectifier
BR	BR		Receiving diode gaseous Rectifier (obsolete)
DX	DX		Dry system oven
FNH	6A3 Special		Special Type 6A3
GL	1B32/532A		See 1B32/532A
K-O	2J23/29		See 2J23/29
LA	6A4/LA		See 6A4/LA
LVX	2J42		See 2J42
Navy Type A	C1A		See C1A
Navy Type B	C5A		See C5A
Navy Type C	C6A		See C6A
PZ	47		See 47
PZH	2A5		See 2A5
SA	SA		Gas switching tube
SB	SB		Gas switching tube
SC	SC		Gas switching tube
XP	CV74		See CV74
XXB	XXB		Receiving twin triode frequency converter (obsolete)
XXD	14AF7		See 14AF7
XXFM	7X7/XXFM	7X7	See 7X7/XXFM
XXL	XXL		Receiving lock - in type triode (very similar to 7A4) obsolete
00A	00A	200A, 300A	Receiving triode detector - cesium vapor type (obsolete)
OSGLIM	CV71		See CV71
BL-M-008	BL-M-008		Magnetron
BL-S-016	BL-S-016		TR Tube
BL-T-005	BL-T-005		TR Tube
BL-T-015	8331	MA-3108, MXT-49	See 8331
BL-T-024	8330	MA-3107, MXT-48	See 8330
BL-T-033	TR610/BL-T-033	TR610	See TR610
BL-T-041	BL-T-041/8061	MPT-23, 8061	TR Tube
BL-T-059	BL-T-059/8060	MPT-24, 8060	TR Tube
0A2	0A2	HD51, S856	Miniature type OD3 voltage regulator. See also 6073
0A2/5856	5856		Voltage regulator, receiving
0A2WA	0A2WA		Receiving voltage regulator
0A3	0A3	GL75-30, 0A3/VR75, VR75-30	Voltage regulator
0A3/VR75	0A3		See 0A3
0A4G	0A4G		Triode, gas, cold cathode
0A5	0A5		Cold cathode relay tube for triggering
0B2	0B2	HD52	Receiving voltage regulator

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Tube Type	Current Service Designation	Other Number	Class Description
OB2WA	OB2WA		Receiving voltage regulator
OB3	OB3	OB3/VR90, VR90-30, GL90-30, VR90	Diode voltage regulator
OB3/VR90	OB3		See OB3
OC2	OC2	S859	Miniature type OA3 voltage regulator, (obsolete)
OC2/VR75	OC2		Miniature voltage regulator.
OC3	OC3	OC3/VR105, VR105-30, GL105/30	Diode voltage regulator. See OB2
OC3/VR105	OC3		See OC3
OC3/VR105W	OC3W		See OC3W
OC3W	OC3W	OC3/VR105W	Ruggedized OC3
OD3	OD3	GL150/30, VR150, VR150-30, OD3/VR150, WT294	Diode voltage regulator. See OA2
OD3/VR150	OD3		See OD3
OD3/VR150W	OD3W		See OD3W
OD3W	OD3W	OD3/VR150W	Ruggedized OD3
OE3	OE3		Voltage regulator
OG3	OG3	OG3/85A2, 85A2	Miniature voltage regulator
OY4	OY4		Half wave gas rectifier with starter
OY4G	OY4G		Half wave gas rectifier with starter
OZ4	OZ4		Duodiode gaseous rectifier, replace with OZ4A/1003
OZ4A	OZ4A/1003		See OZ4/1003
OZ4A/1003	OZ4A/1003	1003, CK1003, OZ4A, CK1003/OZ4A, 1003/OZ4A	Duodiode gas filled full wave rectifier OZ4 with increased current rating.
OZ4G	OZ4G		Full wave, gas, cold cathode rectifier
BL1	BL1		ATR tube
BS1	5979		See 5979
BS1/5979	5979		See 5979
C1A	C1A	CEC1A, ELC1A, GLC1A, Navy Type A, WX3169	Thyratron
C1B	3C31/C1B		See 3C31/C1B
C1B/A	5664		See 5664
C1J	C1J		Thyratron
C1J/A	5683/C1JA		See 5683/C1J/A
C1K	C1K		Thyratron, inert gas type
C1K/B	7319/C1K/B		See 7319/C1K/B
CE1	CE1A/B, C, D, E, V	NU1	Gas phototube, see also CE1C, CE1D, CE1E, CE1V
CE1A/B	CE1A/B		Gas phototube
CE1C	918		See 918
CE1D	868		See 868
CE1E	CE1E		Obsolete. Use 868
CE1RBL	1RBL		See 1RBL
CE1RBS	1RBS		See 1RBS
CE1V	CE1V		Vacuum phototube. See PJ22
CE1VC	PJ22		See PJ22

Tube Type	Current Service Designation	Other Number	Class Description
CEC1A	C1A		C1A
CL-1	CL-1		Clairex crystal photocell
D1	VR78 (Br.)		See VR78 (Br.)
DE1	27		See 27
DHA-1	DHA-1		TWT amplifier
E1T	E1T		Decade counter tube
EL1C	3B22		See 3B22
ELC1A	C1A		See C1A
ELC1B	3C31/C1B		See 3C31/C1B
ELC1K/B	7319/C1K/B		See 7319/C1K/B
F1A	F1A		Gamma counter tube
FE1	FE1		Improved 1B42
G1	G1		Gas phototube
GCI-7	GCI-7		Geiger-Mueller counter tube
GL-1P29/401	1P29		See 1P29
GLC1A	C1A		See C1A
GM-M1M2	MK1MOD2		See MK1MOD2
GM-M1M20	MK1MOD20		See MK1MOD20
GM-MK1MOD10	MK1MOD10		See MK1MOD10
GMH-MK1MOD10A	MK1MOD10A		See MK1MOD10A
GMH-MK1MOD10D	MK-MOD10D		See MK1MOD10D
HA-1B	HA-1B		Traveling wave tube
J1	2J22		See 2J22
KC1	KC1		Special purpose diode vacuum rectifier
LM1	LM1		Lamp
MARK 1 MOD 2	MK1MOD2		See MK 1MOD 2
MARK 1 MOD 10	MK1MOD10		See MK 1 MOD 10
MARK 1 MOD 10A	MK1MOD10A		See MK 1 MOD 10A
MARK 1 MOD 20	MARK 1 MOD 20		See MK 1 MOD 20
MK1 MOD 2	MK1 MOD 2	GMH-MK1MOD10A, GM-M1M2	Geiger-Muller counter tube
MK1 MOD 10	MK1 MOD 10	GMH-MK1MOD10A, GM-MKMOD10	Beta Gamma counter tube (outdoor type)
MK 1 MOD 10A	MK 1 MOD 10A	GMH-MK1MOD10A	Beta Gamma counter tube (indoor type)
MK1MOD10D	MK1MOD10D	GMH-MK1MOD10D, G-11A	Geiger-Mueller counter tube
MK1 MOD 20	MK1MOD20	GM-MLM20	Geiger-Mueller counter tube
MAS-1A	MAS-1A/7640	7640, 313H/7640	Traveling wave tube
ML1E	ML1E		Rectifier (medical & surgical)
ML1-K	ML1-K		High voltage half wave rectifier for x-ray apparatus.
NRCOO1M	REL53		See REL53
NU1	CE1		See CE1
NU1RBL	1RBL		See 1RBL
NU1RBS	1RBS		See 1RBS
NU1V	PJ22		See PJ22
O1	O1	20,1301	Receiving triode detector amplifier (obsolete)

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Tube Type	Current Service Designation	Other Number	Class Description
O1A	O1A	501A, UX201A, VT-30	Receiving triode detector amplifier (obsolete) See SE4374 equivalent to OOA (obsolete) and 40 (obsolete)
PAX-1	PAX-1		Packaged magnetron
R-1	R-1		Klystron
RE 1	80		See 80
REL 1	VT90 (Br.) /8011		See VT90 (Br.) /8011
GLC1A	C1A		See C1A
S-1	S-1		Transistor
SGR1	SGR1		Hydrogen thyratron, similar to 4C35 and 4C35A electrically
TGC1	1B83		See 1B83
TGC-1L	TGC-1L		Geiger-Mueller counter tube
TP-1	TP-1		Phonograph pick up tube-triode
TT1	6144	R6212A	See 6144
V1	V1		Vacuum phototube
XD-1	XD-1		High voltage diode
1	1		Obsolete, superseded by 1V
1-15	1-15		Ballast tube
1A1	1A1/5E1		See 1A1/5E1
1A1/5E1	1A1/5E1	5E1, 1A1	Ballast tube
1A3	1A3		Miniature HF diode
1A4	1A4		Receiving tetrode amplifier (replace with 1A4P)
1A4P	1A4P		Receiving pentode amplifier (nearest equivalent is 34)
1A4T	1A4T		Receiving tetrode amplifier (Obsolete, replace with 1A4P)
1A5G	1A5G		See 1A5GT-Replace with 1A5GT
1A5GT	1A5GT	VT-124	Receiving pentode power amplifier (similar to 105GT, 1T5GT, 1C5GT)
1A6	1A6		Receiving pentagrid converter - obsolete (similar to 1C6)
1A7G	1A7G		See 1A7GT - Replace with 1A7GT
1A7GT	1A7GT	VT-147	Receiving pentagrid converter (similar to 1B7GT)
1AB5	1AB5	SD719	Receiving lock in type pentode amplifier
1AB6	1AB6		Miniature pentagrid converter (Dutch)
1AC4	1AC4		Subminiature twin diode
1AC5	1AC5	A4513	Receiving subminiature pentode
1AC6	1AC6		Miniature pentagrid converter (Dutch)
1AD4	1AD4	QF408	Receiving subminiature pentode, sharp cutoff
1AD5	1AD5		Receiving subminiature pentode
1AE4	1AE4		Miniature pentode voltage amplifier
1AE5	1AE5	QF409	Receiving subminiature mixer

Tube Type	Current Service Designation	Other Number	Class Description
1AF4	1AF4		Miniature receiving pentode
1AF5	1AF5		Miniature receiving diode pentode
1AG4	1AG4		Subminiature pentode
1AG5	1AG5		Subminiature diode pentode
1AH4	1AH4		Subminiature pentode
1AH5	1AH5		Miniature diode pentode (Dutch)
1AJ4	1AJ4		R.F. pentode, button, 7 plus (Philips)
1AJ5	1AJ5		Subminiature diode pentode
1AK4	1AK4		Subminiature R.F. pentode
1AK5	1AK5		Subminiature diode pentode
1AM4	1AM4		Miniature R.F. remote cutoff pentode (Japanese)
1AN5	1AN5		Receiving pentode (Canadian)
1AP5	1AP5		Cathode ray tube (similar to type 913 with P-5 screen)
1AQ5	1AQ5		Pentagrid converter (Japanese)
1AR5	1AR5		Diode pentode (Japanese)
1AS5	1AS5		Diode pentode (Japanese)
1AX2	1AX2		Miniature half wave rectifier (similar to 1X2A)
1B1	1B1		Ballast tube
1B3GT	1B3GT	1B3GT/8016	Transmitting diode vacuum rectifier (replaces 8016)
1B3GT/8016	1B3GT		See 1B3GT
1B4	1B4		Obsolete, see 1B4P
1B4G	1B4G		Obsolete, see 1B4P
1B4P	1B4P	951, 1B4P/951, 1B4G, 1B4, 1B4T	Receiving pentode amplifier (obsolete, replace with 32; similar to 1E5GP, 1E5GT)
1B4T	1B4T		Obsolete, see 1B4P
1B4T/951	1B4P		Obsolete, see 1B4P
1B5	1B5/25S		See 1B5/25S
1B5/25S	1B5/25S	1B5, 25S, 25S25, 25-258	Receiving duodiode triode (obsolete)
1B7G	1B7G		Obsolete; use 1B7GT
1B7GT	1B7GT		Receiving pentagrid converter. Obsolete (similar to 1A7GT)
1B8GT	1B8GT		Receiving diode triode pentode
1B21	471		See 471
1B21A	471A		See 471A
1B22	1B22	WE1378X, 1378X	Spark gap diode modulator
1B23	1B23	WE729A	
1B23 (WECo)	1B23	729A, WE729A, 2779A	TR tube. Will replace 702B with modification kit
1B23 (Bomac)	1B23		TR tube
1B24	1B24	WX3199, X6011, REL30	TR tube
1B24A	1B24A		TR tube
1B25	1B25	S853	Gas switching tube
1B26	1B26	WX3210	TR tube
1B27	1B27		TR tube
1B28	1B28	X6012	Gas switching tube

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Tube Type	Current Service Designation	Other Number	Class Description
1B29	1B29	1437GT	Gas switching tube
1B30	1B30	ZG530	Gas switching tube
1B31	1B31	1391Z, 1391X	Gas switching tube
1B32	1B32/532A		See 1B32/532A
1B32/532A	1B32/532A	GA-5, GL532A, GL WL532A, 532A, 1B32	Diode gas discharge tube
1B33	1B33		Gas switching tube
1B34	1B34		Spark gas diode modulator. Obsolete
1B35	1B35	X6031	ATR tube. Superseded by 1B35A
1B35A	1B35A	6038, ATR414	ATR tube. Replaces 1B35
1B35A-S	1B35A-S		ATR tube
1B36	1B36	6015	ATR tube
1B36A	1B36A		ATR tube
1B37	1B37		ATR tube
1B37A	1B37A		ATR tube
1B38	1B38		Pre-TR tube
1B39	1B39	WL539A, 539A	Gas switching tube
1B40	1B40	SD847A	TR tube
1B41	1B41	WX3240D	Series spark gap diode modulator
1B42	1B42	D170135, 1438GT, FE1	Mercury cathode series gap
1B43	1B43	SD829	Gas switching tube
1B44	1B44		ATR tube
1B45	1B45	WX3240B	Gas switching tube
1B46	1B46	R1160A, 1B46/R1160A	Miniature voltage regulator
1B46/R1160A	1B46		See 1B46
1B47	1B47		Miniature voltage regulator
1B48	1B48	CK1011A	Cold cathode miniature gas diode rec- tifier, obsolete, (Replace with 5517/ CK1013) electrically interchange- able
1B49	1B49	WX3240G	Gas switching tube
1B50	1B50	X6032	TR tube
1B51	1B51	X6033	ATR tube
1B52	1B52	X6035	ATR tube
1B53	1B53		ATR tube
1B54	1B54	X6036	PRE-TR tube (note: This is definitely an active and available tube)
1B55	1B55	X6034	TR tube
1B56	1B56		ATR tube
1B57	1B57		ATR tube, similar to 1B44, 1B52, 1B53, 1B56, 1B57, 5792, 5793
1B58	1B58		Gas switching tube
1B58A	1B58A		TR tube
1B59	1B59/R1130B		Sec 1B59/R1130B
1B59/R1130B	1B59/R1130B		Cold cathode crator-glow modulator tube
1B60	1B60		TR tube, superseded by 1B24A
1B62	1B62		Modified 721B (TR)
1B63	1B63		TR tube. Replace with 1B63A

Tube Type	Current Service Designation	Other Number	Class Description
1B63A	1B63A	X6044	Improved 1B63 (see 6597, a combined TR and shutter tube.)
1B64	1B64		Miniature voltage regulator, glow discharge
1B65	1B65		Gas switching TR tube
1B67	1B67	1B67/VG10A, VG10A	Counter tube, Beta-Gamma
1B67/VG10A	1B67		See 1B67
1B68	1B68	VG-13, K-11	Beta-Gamma counter tube. Replace with MK1MOD10D
1B69	1B69	1E	Gamma counter tube
1B70	1B70	1M	Gamma counter tube
1B71	1B71	4E	Gamma counter tube
1B72	1B72	4M	Gamma counter tube
1B73	1B73	10E	Gamma counter tube
1B74	1B74	10M	Gamma counter tube
1B75	BS-6		See BS-6
1B76	1B76	100N	Beta counter tube
1B77	1B77	120C	Beta counter tube
1B78	1B78	150C	Beta-Gamma counter tube
1B79	1B79	150M	Beta-Gamma counter tube
1B80	5979		See 5979
1B81	1B81	200C	Alpha counter tube
1B83	1B83	TGC-1	Beta-Gamma counter tube
1B84	1B84	TGC-2	Beta-Gamma counter tube
1B85	1B85		Beta-Gamma counter tube
1B85A	1B85A		Beta-Gamma counter tube directly interchangeable with 6833/Anton 112
1B86	1B86		Gamma counter tube
1B87	1B87	VXG-11	Miniature Gamma counter tube
1B88	1B88		Gamma counter tube
1B89	1B89		X-ray counter tube
1B90	1B90		Beta-Gamma counter tube
1B97	1B97		Counter tube
1B98	1B98		Counter tube
1B99	1B99		Counter tube
1B100	1B100		Counter tube
1B102	1B102		Thyrode-Beta counter tube
1B105	1B105		Counter tube
1B106	1B106		Thyrode-Beta counter tube
1B124	1B124		Gamma counter tube
1B125	1B125		Cosmic-ray counter tube
1B126	1B126		Gamma counter tube
1C	3B22		See 3B22
1C3	1C3		Receiving triode voltage amplifier
1C4	1C4		Australian receiving pentode amplifier. Obsolete. Replaces with 1A4P
1C5G	1C5G		See 1C5GT - G - Replace with 1C5GT - G
1C5GT	1C5GT	VT-125	Receiving pentode amplifier (similar to 1O5GT, 1T5GT, 1A5GT)

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Tube Type	Current Service Designation	Other Number	Class Description
1C6	1C6		Receiving pentagrid converter (similar to 1A6)
1C7G	1C7G		Receiving pentagrid converter (similar to 1D7G) (Typed 1C5 characteristics)
1C8	1C8		Subminiature filamentary tape triode heptode converter
1C21	1C21		Cold cathode gas triode
1CP1	1CP1		Miniature cathode ray tube, automatic focus
1D1	1D1		(Inditron)-glow indicator tube
1D2	1D2		Receiving current regulator
1D3	1D3	SD1066A	Subminiature triode
1D4G	1D4G		Receiving RF pentode (Australian)
1D4GT	1D4GT		Receiving RF pentode (Australian)
1D5G	1D5GP		See 1D5GP
1D5GP	1D5GP	1D5G	Receiving pentode amplifier (nearest equivalent is 1D5G, similar to 1A4P and 1E5G)
1D5GT	1D5GT		Receiving tetrode amplifier (obsolete, replace with 1D5GP)
1D6	1D6		Subminiature pentode, similar to 1A6, 1A65, 1A64
1D7G	1D7G		Receiving pentagrid converter. Obsolete. Replace with 1C7G. (Type 1A6 characteristics)
1D8GT	1D8GT	VT-148	Receiving diode triode pentode
1D21	631P1		See 631P1
1D21/631P1	631P1		See 631P1
1D85	1D85		Radiation counter tube
1DN5	1DN5		Receiving diode pentode, 7 pin miniature, for portable equipment
1DP-----	1DP-----	NU2163, NU2164	Miniature cathode ray tube, electrostatic focus and deflection
1E	1B69		See 1B69
1E1	1E1		Ballast tube, supersedes 1P1
1E2	1E2		Receiving current regulator
1E3	1E3		British-UHF triode for transmitting & receiving
1E4G	1E4G		Receiving triode amplifier (obsolete, similar to 1G4GT, 1B4G and 1LE3). Use 1G4GT
1E5G	1E5G		Receiving screen grid RF amplifier (similar to 1D5GP). Obsolete
1E5GP	1E5GP	VT-170	Receiving pentode amplifier (type 1B4 characteristics)
1E5GT	1E5GT		Replace with 1K5GP
1E7G	1E7G		Receiving twin pentode amplifier
1E7GT	1E7GT		Receiving twin pentode amplifier

Tube Type	Current Service Designation	Other Number	Class Description
1E8	1E8		Subminiature pentagrid converter, similar to 1B5
1EP-----	1EP-----		Cathode ray tube, electrostatic focus and deflection
1F4	1F4		Receiving pentode amplifier (type 1F5G characteristics)
1F5G	1F5G		Receiving pentode amplifier (type 1F4 characteristics)
1F6	1F6		Receiving duodiode pentode amplifier (obsolete)
1F7G	1F7G		Receiving duodiode pentode amplifier. Obsolete. (Type 1F6 characteristics)
1F7GH	1F7GH		Receiving duodiode pentode (replace with 1F7G)
1F7GT	1F7GT		Receiving duodiode pentode (replace with 1F7G)
1F7GV	1F7GV		Receiving duodiode pentode (replace with 1F7G)
1F7GY	1F7GY		Receiving duodiode pentode (replace with 1F7G)
1G1	1G1		Receiving current regulator
1G3GT	1G3GT		Half wave vacuum rectifier
1G4G	1G4G		See 1G4GT - replace with 1G4GT
1G4GT	1G4GT		Receiving triode detector amplifier (similar to 1E4G, 1H4G)
1G5G	1G5G		Receiving pentode power amplifier (obsolete similar to 1J5G)
1G5GT	1G5GT		Receiving pentode power amplifier, obsolete
1G6G	1G6G		Obsolete. Replace with 1G6GT
1G6GT	1G6GT		Receiving twin triode amplifier
1H2	1H2		High voltage diode rectifier
1H4G	1H4G		Receiving triode detector amplifier (similar to 30, 1E4G, 1G4GT)
1H4GT	1H4GT		Receiving triode detector amplifier
1H5G	1H5G		Obsolete. Replace with 1H5GT
1H5GT	1H5GT	VT-223	Receiving diode high mu triode detector amplifier
1H6G	1H6G		Receiving duodiode triode, obsolete. (Type 1B5 characteristics)
1H6GT	1H6GT		Receiving duodiode low mu triode
1H20	1H20		Ballast tube
1H22	1H22		Ballast tube
1HT4	1HT4	6345	Ballast tube
1HTF10	1HTF10		Ballast tube
1J1	1J1		Receiving current regulator
1J3	1J3		Transmitting diode for TV hi voltage
1J5G	1J5G		Receiving pentode power amplifier. Obsolete. (Replace with 1G5G or 1J6GT if grid bias load resistance is changed)