

MIL-STD-200

8 April 1953

Superseding
Armed Services Preferred
List of Electron Tubes,
28 January 1953

MILITARY STANDARD

ELECTRON TUBES



UNITED STATES
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**DEPARTMENT OF DEFENSE
DEFENSE SUPPLY MANAGEMENT AGENCY
OFFICE OF STANDARDIZATION
WASHINGTON 25, D. C.**

Electron Tubes
MIL-STD-200

8 April 1953

1. This standard has been approved by the Departments of the Army, the Navy, and the Air Force, and is published as a means of establishing a list of electron tubes for use in the design and manufacture of new electrical and electronic equipments under the jurisdiction of the Departments. Exceptions to this are noted in the definition of "new equipments."

2. The Office of Standardization approved this standard for printing and inclusion in the MIL series of standards on 8 April 1953.

3. In accordance with established procedure, the Office of Standardization has designated the Signal Corps, Bureau of Ships, and Air Force as custodians of this standard.

4. This standard is mandatory for use effective 8 April 1953, for the selection of tubes for use in the design of new electrical and electronic equipments. This standard is in no way intended to hamper or restrict development work in the field of electron tubes and electron-tube applications. In the event it is desired to use a tube not included in this standard in the design of new equipments for the Services, specific approval of the Service concerned must be obtained. The activity shall be responsible for making known its recommendations in the matter to the Office of Standardization, Defense Supply Management Agency through the appropriate Departmental custodian.

5. Recommended corrections, additions, or deletions should be addressed to the Office of Standardization, Defense Supply Management Agency, Washington 25, D. C.

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1. INTRODUCTION

1.1 SCOPE.—This standard consists of a list of electron tubes types selected jointly by the Departments of the Army, the Navy, and the Air Force. The purpose of this list is to—

- (a) Guide Military-equipment designers and manufacturers in the

choice of tube types that represent the highest-quality tubes available for Military use, and

- (b) Provide for a minimum tube maintenance stock by making extensive use of a minimum number of tube types.

2. DEFINITIONS

2.1 NEW EQUIPMENTS.—The following statements are explanatory in nature and are not intended to be all-inclusive.

2.1.1 *The term "new equipments" includes—*

- (a) Equipments basically new in electrical design, with no similar prototype.
- (b) Equipments having a similar prototype but completely redesigned as to electrical characteristics.
- (c) New test equipment for operational field use.

2.1.2 *The term "new equipments" does not include—*

- (a) Equipments, either basically new or redesigned, that are likely to be manufactured in very small quantities, such as laboratory measuring instruments.
- (b) Equipments that are solely mechanical redesigns of existing prototypes.
- (c) Equipments that are reorders without change of existing prototypes.
- (d) Equipments in the design stage before the effective date of adoption of this standard.

3. LIST OF STANDARD ELECTRON TUBES

3.1 Receiving tubes.

Fila- ment Voltage	Diodes	Triodes	Diode Triodes	Twin Triodes	Pentodes		Mixers and Converters	Power Output		Tun- ing Indi- cator	Rectifiers
					Remote	Sharp		Pentodes	Triodes		
1.25 and 1.4	†1A3			†3A5		†*1AD4 *1AH4		†3B4 †*5672 †*6088		†*5676	†1B3GT †1Z2
5.0											†5R4WGY †5Y3WGTA
6.3	2B22 †*5647 5726/6AL5W †*5896	†2C40 †6C4W †6J4 *5703 WA †*5718 †*5719 *5744WA	†6AV6	*6BF7 †12AT7 †5670 5751 5814	6SK7W †5749/6BA6W †*5899	†6AH6 †6AU6 †5654/6AK5W 5693 *5702WA †*5840	†5725/6AS6W †5750/6BE6W *5784WA	†2E30 6AG7 †6AK6 6BG6G †6L6WGB †*5639	5686 †5763 †*5902 5932 †6005/6AQ5W	†6AS7G †5687	†6E5 †6X4W †*5641 5852
26-Volt Anode Operation			26C6					26A7GT			
26.5	*5903							26E6WG			26Z5W 5839

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3.2 Transmitting tubes.

Triodes	Tetrodes	Twin Tetrodes	Pulse Modulation	Magnetrans		Rectifiers			Clipper Tubes	Gas switching			
						Vacuum	Gas	Grid Control		ATR		TR	
†2C39A 811	†4D21	†829B	†3C45	2J30-34	4J78	†2X2A	OZ4A/1003	857B	†C1K	3B29	1B35A	1B53	1B23
†2C43 880	†4-65A	†832A	†3D21A	2J51	5J26	3B24WA	†3B28	869B	884	4B31	1B36	1B56	1B26
†100TH 5667	†4X150A		†3E29	2J61A-62A	5586	371B	†4B26	1005	†5684/C3J/A	719A	1B37A	1B57	1B27
†250TH 5794	†5D22		†4C35	4J50	5607	836	†4B32	1006	†5685/C6J		1B44	5792	1B50
450TL	5933		†4PR60A	4J52	5657	1616	6C	5517	5696		1B51	5793	1B58
			†5C22	4J54-59		†8020	16B		†5727/2D21W		1B52		1B63A
			6C21										5853

3.3 Miscellaneous tubes.

Cathode Ray			Crystals		Electrometers	Klystrons		Phototubes	Voltage regulators
2BP1	5FP(7A, 14)	7MP7	1N21B	1N31	†*5800	2K22	2K45	1P21	†OA2
3JP(1, 7, 12)	5JP1A	10KP7	1N23B	1N69	†*5886	2K25	2K54	1P30	†OA3
3RP1	5RP(7A, 11A)	12SP7	1N25	1N81		2K26	2K55	1P37	†OB2
5CP(1A, 7A, 12)	5SP(1, 7)		1N26			2K28	6BL6	1P39	*5644
						2K29	726 A,B,C,	1P40	†5651
						2K41		927	*5783

* Subminiature type.

Note.—Specifications for these tubes are included in Specification MIL-E-1B

† Also U. S. tubes on NATO priority list of electronic tubes (valves).

‡ NATO priority lists contains these types without the additional U. S. military requirements.

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4. NUMERICAL LISTING OF STANDARD TUBE TYPES

OA2	2K28	6AS7G	5647
OA3	2K29	6AU6	5651
OB2	2K41	6AV6	5654/6AK5W
OZ4A/1003	2K45	6BF7	5657
C1K	2K54	6BG6G	5667
1A3	2K55	6BL6	5670
1AD4	2X2A	6C	5672
1AH4	3A5	6C4W	5676
1B3GT	3B4	6C21	5684/C3J/A
1B23	3B24WA	6E5	5685/C6J
1B26	3B28	6J4	5686
1B27	3B29	6L66WGB	5687
1B35A	3C45	6SK7W	5693
1B36	3D21A	6X4W	5696
1B37A	3E29	7MP7	5702WA
1B44	3JP1	10KP7	5703WA
1B50	3JP7	12AT7	5718
1B51	3JP12	12SP7	5719
1B52	3RP1	16B	5725/6AS6W
1B53	4-65A	26A7GT	5726/6AL5W
1B56	4B26	26C6	5727/2D21W
1B57	4B31	26E6WG	5744WA
1B58	4B32	26Z5W	5749/6BA6W
1B63A	4C35	100TH	5750/6BE6W
1N21B	4D21	250TH	5751
1N23B	4J50	371B	5763
1N25	4J52	450TL	5783
1N26	4J54-59	719A	5784WA
1N31	4J78	726A	5792
1N69	4PR60A	726B	5793
1N81	4X150A	726C	5794
1P21	5C22	811	5800
1P30	5CP1A	829B	5814
1P37	5CP7A	832A	5839
1P39	5CP12	836	5840
1P40	5D22	857B	5852
1Z2	5FP7A	869B	5853
2B22	5FP14	880	5886
2BP1	5J26	884	5896
2C39A	5JP1A	927	5899
2C40	5R4WGY	1005	5902
2C43	5RP7A	1006	5903
2E30	5RP11A	1616	5932
2J30-34	5SP1	5517	5933
2J51	5SP7	5586	6005/6AQ5W
2661A-62A	5Y3WGTA	5607	6088
2K22	6AG7	5639	8020
2K25	6AH6	5641	
2K26	6AK6	5644	

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Copies of this Military standard may be obtained by directing requests as follows:

For Department of the Army activities, to chief of the specific activity or as directed by that activity.

For Department of the Army contractors, to the contracting officer.

For Department of the Navy activities, to the Commanding Officer, Naval Supply Depot, Scotia 2, N. Y.

For Department of the Navy contractors, to the Bureau of Supplies and Accounts, Washington 25, D. C.

For the Marine Corps, to the Quartermaster General, Headquarters, U. S. Marine Corps, Washington 25, D. C.

For the Department of the Air Force activities and Air Force contractors to the Commanding General, Wright Air Development Center, Wright-Patterson Air Force Base, Ohio.

Copies of this Military standard may be obtained for other than official use from the

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Both the title and identifying number or symbol should be stipulated when requesting copies of military standards.

Notice.—When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

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Army—Signal Corps
Navy—Bureau of Ships
Air Force

Other interest:

Army—CEMOT
Navy—AMCdOrS.

ARMED SERVICES ELECTRO STANDARDS AGENCY
FORT MONMOUTH, N. J.



IN REPLY, ADDRESS
NOT THE SIGNER
OF THIS LETTER,
BUT THE DIRECTOR:

DIR/APS-461.1145
Serial #53-466

6 July 1953

To: All Holders of the Armed Services Preferred Parts Lists
(Electronic Components), ASESA 49-1

Subj: ~~MIL~~-STD-200, Transmittal of

Encl: (A) MIL-STD-200

1. Enclosed is a copy of MIL-STD-200, Military Standard Electron Tubes, dated 8 April 1953. This publication supersedes the Armed Services Preferred List of Electron Tubes, dated 28 January 1953 and PPL-1A formerly contained in the ASESA 49-1 publication.

2. Attention is called to the following typographical errors in enclosure (A):

- (a) Page 2 - In the diodes column 5726/6A15W should be preceded by a dagger.
- (b) Page 4 - In first column 261A-62A should be 2J61A-62A.
- (c) Page 4 - In third column 6L66WGB should be 6L6WGB.
- (d) Page 5 - Under "Other Interest:" Navy-AMCdOrS should be Navy-AMCMdOrS.

3. Additional copies of enclosure (A) may be obtained as shown on page 5 of the standard.

C. L. D. ALLEN
CDR, USN
DEPUTY DIRECTOR