

NAVSHIPS 91798

(Non-Registered)

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INSTRUCTION BOOK
FOR
TUBE SOCKET ADAPTER KIT
MX-1258/U
FOR GENERAL ELECTRONICS USE

Industrial Electronic Hardware Corporation
NEW YORK 12, N.Y.

BUREAU OF SHIPS

NAVY DEPARTMENT

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LIST OF EFFECTIVE PAGES

PAGE NUMBERS	CHANGE IN EFFECT	PAGE NUMBERS	CHANGE IN EFFECT
Title page	Original	4—1 to 4—13	Original
A to C	Original	5—1 to 5—4	Original
i to vi	Original		
1—0 to 1—2	Original		
2—1 to 2—2	Original		
3—1 to 3—11	Original		



DEPARTMENT OF THE NAVY
BUREAU OF SHIPS
WASHINGTON 25, D. C.

NO. 993-100
Code 993-100
18 November 1952

From: Chief, Bureau of Ships
To: All Activities Concerned with the
Installation, Operation and Main-
tenance of the Subject Equipment

Subj: Instruction Book for Tube Socket
Adapter Kit MX-1258/U NAVSHIPS 91798

1. This is the instruction book for the sub-
ject equipment and is in effect upon receipt.
2. When superseded by a later edition, this
publication shall be destroyed.
3. Extracts from this publication may be
made to facilitate the preparation of other
Department of Defense Publications.
4. All Navy requests for NAVSHIPS Electron-
ics publications should be directed to the
nearest District Publications and Printing
Office. When changes or revised books are
distributed, notice will be included in the
Bureau of Ships Journal and in the Index of
Bureau of Ships General and Electronics Pub-
lications NAVSHIPS 250-020.

H. N. WALLIN
Chief of Bureau

TABLE OF CONTENTS

SECTION 1—GENERAL DESCRIPTION

<i>Paragraph</i>	<i>Page</i>
1. Purpose and Basic Principles	1—1

SECTION 2—THEORY OF OPERATION

1. Use	2—1
------------------	-----

SECTION 3—OPERATOR'S REFERENCE DATA

1. Tube Base List	3—1
-----------------------------	-----

SECTION 4—REFERENCE DIAGRAM DATA

1. Tube Base Diagrams	4—1
---------------------------------	-----

SECTION 5—PARTS LIST

1. Parts Data	5—1
-------------------------	-----

LIST OF ILLUSTRATIONS

SECTION 1—GENERAL DESCRIPTION

<i>Figure</i>	<i>Title</i>	<i>Page</i>
1—1	Tube Socket Adapter Kit MX-1258/U	1—0
1—2	Miniature Type Adapter	1—1
1—3	8 Pin Octal Adapter	1—2

SECTION 3—TUBE BASE LIST

Tube Base List	3—1 to 3—11
--------------------------	-------------

SECTION 4—TUBE BASE DIAGRAMS

Tube Base Diagrams	4—1 to 4—13
------------------------------	-------------

LIST OF TABLES

SECTION 5—PARTS LIST

<i>Table</i>	
5—1	Shipping Weights and Dimension of Spare Part Boxes 5—1
5—2	List of Major Units 5—2
5—3	Table of Replaceable Parts 5—2 5—3
5—4	Cross Reference Parts List 5—4
5—5	List of Manufacturers 5—4

GUARANTY

Notwithstanding the provisions of Section 5 of these General Provisions, entitled 'Inspection', the Contractor guarantees that at the time of delivery thereof the supplies provided for under this contract will be free from any defects in material or workmanship and will conform to the requirements of this contract. Notice of any such defect or non-conformance shall be given by the Government to the Contractor within one year of the delivery of the defective or non-conforming item, unless a different period of Guaranty is specified in the Schedule. If required by the Government within a reasonable time after such notice, the Contractor shall with all possible speed correct or replace the defective or non-conforming item or part thereof. When such correction or replacement requires transportation of the item or part thereof, shipping costs, not exceeding usual charges, from the delivery point to the Contractor's plant and return, shall be borne by the Contractor; the Government shall bear all other shipping costs. This Guaranty shall then continue as to corrected or replacing supplies or, if only parts of such supplies are corrected or replaced, to such corrected or replacing parts, until one year after the date of re-delivery, unless a different period of Guaranty is specified in the Schedule. If the Government does not require correction or replacement of a defective or non-conforming item, the Contractor, if required by the Contracting Officer within a reasonable time after the notice of defect or non-conformance, shall repay such portion of the contract price of the item as is equitable in the circumstances.

INSTALLATION RECORD

Contract No.: NObsr57246 Date of Contract: Feb. 1952

Serial Number of equipment.....

Date of acceptance by the Navy.....

Date of Delivery to contract destination.....

Date of completion of installation.....

Date placed in service.....

Blank spaces on this page shall be filled in at time of installation. Operating personnel shall also mark the "date placed in service" on the date of acceptance plate located below the model name-plate on the equipment, using suitable methods and care to avoid damaging the equipment.

REPORT OF FAILURE

Report of failure of any part of this equipment, during its entire service life, shall be made to the Bureau of Ships in accordance with current regulations using form NAVSHIPS NBS 383 (revised). The report shall cover all details of the failure and give the date of installation of the equipment. For procedure in reporting failures see Chapter 67 of the *Bureau of Ships Manual* or superseding instructions.

ORDERING PARTS

All requests or requisitions for replacement material should include the following data:

1. Standard Navy stock number or, when ordering from a Marine Corps or Signal Corps supply depot, the Signal Corps stock number.

2. Name and short description of part.

If the appropriate stock number is not available the following shall be specified:

1. Equipment model or type designation, circuit symbol, and item number.
2. Name of part and complete description.
3. Manufacturer's designation.
4. Contractor's drawing and part number.
5. JAN or Navy type number.

SAFETY NOTICE

WARNING:

The attention of officers and operating personnel is directed to Chapter 67 of the *Bureau of Ships Manual* or superseding instructions on the subject of radio-safety precautions to be observed.

This equipment employs voltages which are dangerous and may be fatal if contacted by operating personnel. Extreme caution should be exercised when working with the equipment.

While every practical safety precaution has been incorporated in this equipment, the following rules must be strictly observed:

KEEP AWAY FROM LIVE CIRCUITS:

Operating personnel must at all times observe all safety regulations. Do not change tubes or make adjustments inside equipment with high voltage supply on. Under certain conditions dangerous potentials may exist in circuits with power controls in the off positions, due to charges retained by capacitors. To avoid casualties always remove power and discharge and ground circuits prior to touching them.

DON'T SERVICE OR ADJUST ALONE:

Under no circumstances should any person reach within or enter the enclosure for the purpose of servicing or adjusting the equipment without the immediate presence or assistance of another person capable of rendering aid.

RESUSCITATION

AN APPROVED POSTER ILLUSTRATING THE RULES FOR RESUSCITATION BY THE PRONE PRESSURE METHOD SHALL BE PROMINENTLY DISPLAYED IN EACH RADIO, RADAR OR SONAR ENCLOSURE. POSTERS MAY BE OBTAINED UPON REQUEST TO THE BUREAU OF MEDICINE AND SURGERY.

**SECTION I
GENERAL DESCRIPTION**

PURPOSE AND BASIC PRINCIPLES.

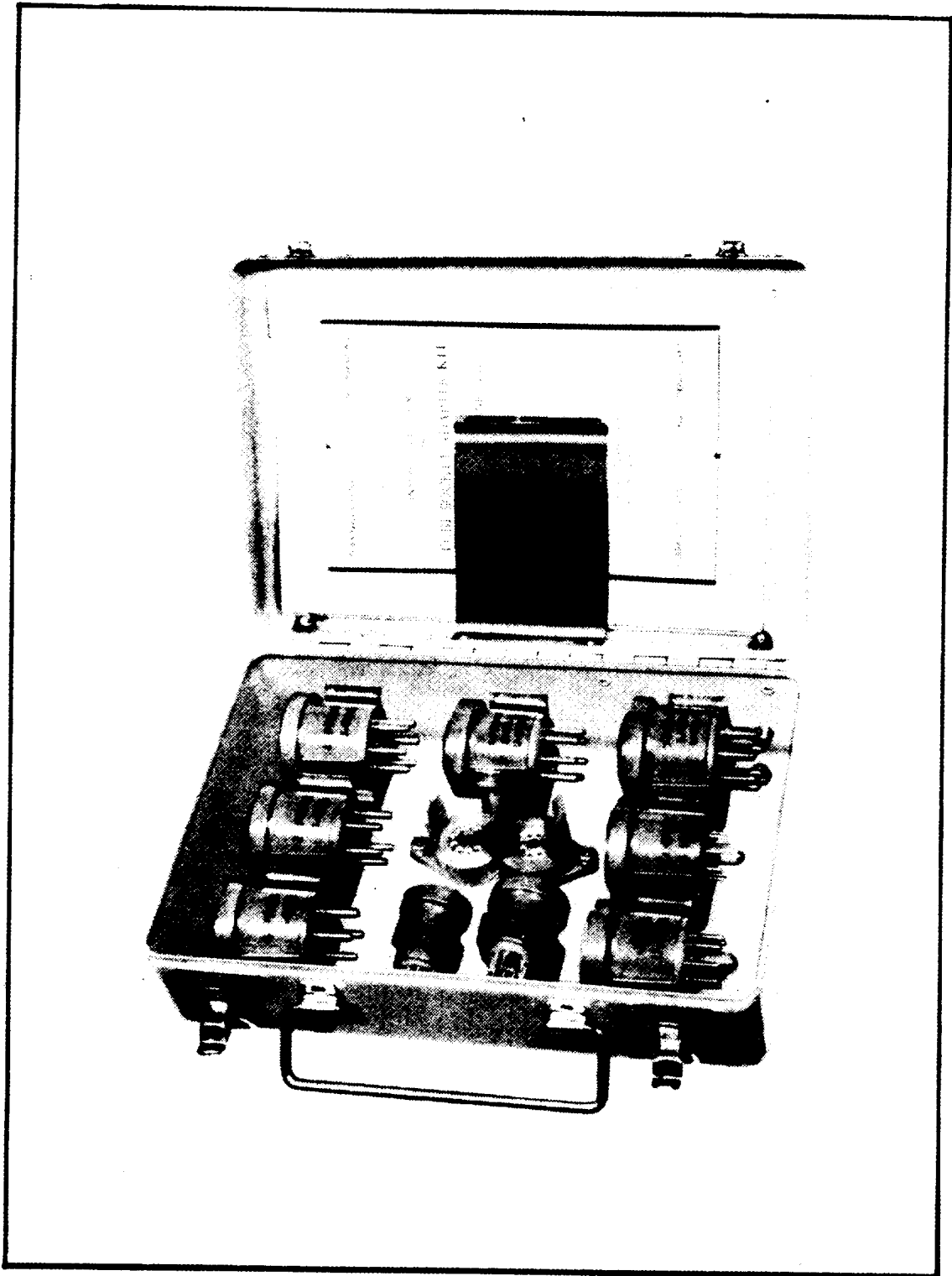


Figure 1-1. Tube Socket Adapter Kit MX-1258/U

TUBE SOCKET ADAPTER KIT MX-1258/U

SECTION I GENERAL DESCRIPTION

1. PURPOSE AND BASIC PRINCIPLES.

a. Tube Socket Adapter Kit MX-1258/U consists of nine types of adapters, mounted within an aluminum transit case approximately 6 x 9 x 2 $\frac{1}{2}$ inches, complete with handle. The adapters are secured within the case by means of mounting clips. An additional clip for securing the instruction book is provided in the case lid. Pin straighteners for the 7 and 9 pin miniature bases are permanently mounted in the center of the transit case.

b. This Tube Socket Adapter Kit is intended for use in general electronics testing of equipment employing electron tubes. The nine adapters contained in the kit provide the facility for testing circuit conditions with practically all of the commonly used electron tubes. Figure 1-1 shows a $\frac{3}{4}$ view of the assembled kit.

c. Each adapter has straight through pin connections, i. e., each individual base pin is connected through to the equivalent socket terminal. Each adapter is provided with radial metal tabs at the top of the adapter which connect with the socket terminals. These tabs are flush with the top of the adapter skirt. A small hole ($\frac{1}{32}$ "

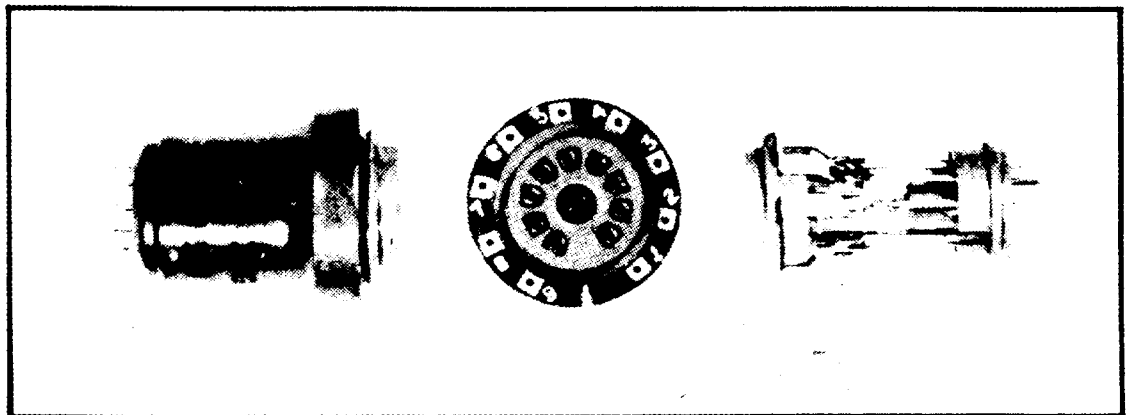


Figure 1-2. Miniature Type Adapter

diameter) in the center of each tab provides the receptacle into which the point of the test probe may be inserted for making measurements. Refer to Figure 1-2, which shows the 9 pin miniature unit from the top, side and also side with the shell removed. Figure 1-3 depicts a top and side view of the 8 pin octal adapter. All of the adapters are basically similar to those shown in Figures 1-2 and 1-3.

d. Each tab is marked with the standard JAN pin number and is so marked with white filled characters molded in the bakelite material. Refer to Figures 1-2 and 1-3.

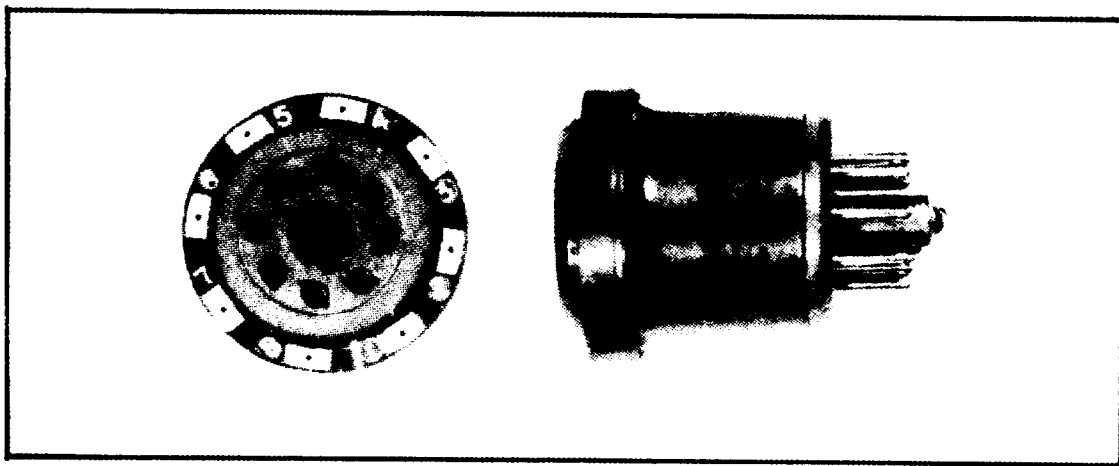


Figure 1-3. 8 Pin Octal Adapter, Top and Side Views

e. The immediate forerunner of the MX-1258/U Tube Socket Adapter Kit was the Navy type CV-49992 Adapter Kit, which employed 8 adapters of varying design with an adapter puller. These units were stored on an oak block installed in Model OE equipments. Field change order No. 1 on Navy Type CV-49992 Adapter Kit provided for standardization of adapter design, adding a 9-pin miniature adapter and provided a transit case for stowage. The MX-1258/U Tube Socket Adapter Kit embodies design improvements which allow manual insertion and extraction with a maximum of protection, a molded rim facilitating attachment of test clips and a body design which allows the adapter to be used on sockets mounting standard tube base shields. A duplex tube pin straightener is included for straightening pins of 7 and 9 pin miniature adapters and tubes. The MX-1258/U Tube Socket Adapter Kit is designed for general purpose use in conjunction with applicable forms of related testing equipment used in the operation and maintenance of electronic equipment employing standard electron tubes.

SECTION 2

THEORY OF OPERATION

1. USE.

a. Relatively high voltages as generally used in electronic equipment may be safely impressed across adjacent terminals without danger of flashover.

b. The resistance between adjacent test tabs on all adapters is in excess of 1000 megohms.

c. Each of the nine adapters is intended to be used by removal of the electron tube from its socket in the equipment under test and insertion of the adapter in the thus exposed socket. The electron tube can be inserted in the top of the adapter and voltage or resistance measurements from the top (tube side) of the adapter can then be made.

d. In cases where a probe cannot be used, wires of approximately 22 gauge may be inserted in the hole of the tab thus providing a generally adequate connection for occasional measurement.

e. If necessary, leads may be soldered to the tabs, but this is not a recommended practice, since solder may run down through the hole into the adapter with the resultant possibility of short circuits.

f. Where space permits, terminal clips may be snapped across the skirt and tab to provide an outgoing connection.

g. Pins of the 7 pin and also of the 9 pin miniature test adapters being easily bent should be straightened occasionally by pushing the adapter into the appropriate pin straightener which is included in the case. The adapter should be slowly pushed into and out of the straightener two or three times to accomplish this. Similar straightening of the pins on 7 and 9 pin miniature tubes may be accomplished where desired.

b. Tube base diagrams are included in the following pages for all currently used electron tubes, as of this date, October, 1952, having bases which are adaptable for use with one or more of the nine adapters included in this kit. It should be noted that these base diagrams represent a view of the base from the under side of the chassis, or from the *bottom* of the socket or tube. When using

radial tabs, the user should observe the pin number and not the position, since the latter is reversed in looking down on the tube base from the top of the chassis side.

i. To locate the pin connections of any particular tube, refer to the tube base list which forms a part of this instruction book. Note the base number corresponding to the tube type number. The majority of the bases are shown in accordance with RTMA standards (Radio, Television Manufacturer's Association). However, certain types of tubes have not had RTMA base numbers assigned at the time of preparation of this handbook. Such tube bases comprise the latter part of the table and contain supplementary base diagram numbers, starting with the letter "S".

Since the base diagrams for Octal and Loctal tubes are similar in appearance, both having 8 prongs and also since three different adapters have 7 prongs, certain letter designations have been placed after the base diagrams to indicate which type of tube is involved. These letters are placed following a dash after the base number.

These letters are as follows:

"O" designates Octal Tubes

"L" designates Loctal Tubes

"M" designates 7-pin Miniature Tubes

"N" designates 9-pin Miniature Tubes

This may be illustrated by referring to the base diagram for Tube 6F5. This is given in the list in this book as an RTMA base diagram number 5M. The designation of this listing in this book is 5M-O. In this case the letter "O" denotes the fact that this is an Octal base.

SECTION 3 OPERATOR'S REFERENCE DATA

<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>
00	4B	1B7-G	7Z	1J6GT	7AB
00-A	4D	1B7-GT	7Z	1K1	4A
01-A	4D	1B8-GT	8AW	1K4	4M
0A2	5B0	1C1	4A	1K5G	5R
0A3	4AJ	1C3	5CF	1K7G	7AD
0A4G	4V	1C4	4K	1L1	4T
0A5	S34	1C5-G	6X	1L4	6AR
0B2	5B0	1C5-GT	6X	1L5G	6X
0B3	4AJ	1C6	6L	1L6	7DC
OC3	4AJ	1C7-G	7Z	1LA4	5AD
OD3	4AJ	1C21	4V	1LA6	7AK
OY4	4BU	1D1	4A	1LB4	5AD
OZ3	5N	1D4	4K	1LB6	8AX
OZ4	4R	1D5GP	5Y	1LC5	7AO
OZ4A	4R	1D5GT	5R	1LC6	7AK
01	4D	1D7G	7Z	1LD5	6AX
01A	4D	1D8GT	8AJ	1LE3	4AA
01AA	4D	1E1	4A	1LG5	7AO
01B	4D	1E4G	5S	1LH4	5AG
1	4G	1E5G	5R	1LN5	7AO
1A1	4A	1E5GP	5Y	1M5G	5R
1A3	5AP	1E7G	8C	1N1	4T
1A4P	4M	1E8	S29	1N5G	5Y
1A5-G	6X	1F1	4A	1N5GT	5Y
1A5-GT	6X	1F4	5K	1N6G	7AM
1A6	6L	1F5G	6X	1P1	4T
1A6-GT	6L	1F6	6W	1P5G	5Y
1A6-S	6L	1F7G	7AD	1P5GT	5Y
1A7-G	7Z	1F7GH	7AD	1Q1	4T
1A7-GT	7Z	1F7GV	7AD	1Q5GT	6AF
1AB-5	5BF	1G1	4A	1RIG	4T
1AC5	S23	1G4G	5S	1R4	4AH
1AD5	S24	1G4GT	5S	1R5	7AT
1AE4	6AR	1G5G	6X	1S1G	4T
1AF4	6AR	1G6G	7AB	1S4	7AU
1AF5	6AU	1G6GT	7AB	1S5	6AU
1AX2	S50	1H4G	5S	1S6	8DA
1B1	4A	1H5G	5Z	1SA6GT	6CA
1B3	4Y	1H5GT	5Z	1SB6GT	6CB
1B3-GT	3C	1H6G	7AA	1T1G	4T
1B4	4K	1J1	4A	1T4	6AR
1B4P	4M	1J5G	6X	1T5GT	6AF
1B5	6M	1J6G	7AB	1T6	S30

OPERATOR'S REFERENCE DATA—Continued

<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>
1U1	4A	2W3	4X	3-75A3	2D
1U4	6AR	2X2	4AB	3-100A2	2D
1U5	6BW	2X2-A	4AB	3-100A4	2D
1U6	7DC	2Y2	4AB	3-150A2	4BC
1-V	4G	2Y3	4C	3-150A3	4BC
1-V2	9U	2Y4	5D	3-200A3	S44
1W4	5BZ	2Z2	4B	3-250A2	2N
1X2	9Y	3	4A	3-250A4	2N
1X2A	9Y	3A4	7BB	3-300A2	4BC
1Y1	4A	3A5	7BC	3-300A3	4BC
1Z1	4A	3A8GT	8AS	4	4A
1Z2	7CB	3AP1	7AN	4A6G	8L
2	4A	3B4	7CY	4C32	2N
2A3	4D	3B5GT	7AP	4C34	2N
2A3H	4Q	3B7	7BE	4C36	S47
2A4G	5S	3B24	S59	4D21	5BK
2A5	6B	3B25	4P	4D22	S42
2A6	6G	3B26	S33	4D23	5BK
2A7	7C	3B27	4P	4D32	S43
2B4	5A	3B28	4P	4E27	7BM
2B6	7J	3C5GT	7AQ	4E27A	7BM
2B7	7D	3C6	7BW	4S	5D
2B22	S37	3C22	S32	4X150A	S82
2B25	3T	3C23	3G	4-65A	S41
2C4	5AS	3C24	2D	4-125A	5BK
2C21	7BH	3C28	S47	4-250A	5BK
2C22	4AM	3C34	3G	4-400A	5BK
2C25	4D	3D6	6BB	5	4A
2C26A	4BB	3D23	S46	5A6	9L
2C34	S77	3D24	S82	5AX4GT	5T
2C35	S38	3DX3	S39	5AZ4	5T
2C36	S36	3E5	6BX	5C24	S28
2C37	S36	3E6	7CJ	5D22	5BK
2C40	S27	3E22	8BY	5D24	5BK
2C43	S27	3E29	7BP	5FP1	5AN
2C44	S25	3LE4	6BA	5MP1	7AN
2C51	8CJ	3LF4	6BB	5R4GY	5T
2D21	7BN	3Q4	7BA	5T4	5T
2E5	6R	3Q5GT	7AQ	5U4G	5T
2E22	5J	3S4	7BA	5V4G	5L
2E24	7CL	3V4	6BX	5W4	5T
2E25	5BJ	3-25A3	3G	5X3	4C
2E26	7CK	3-25D3	2D	5X4G	5Q
2E30	7CQ	3-50A4	3G	5Y3G	5T
2G5	6R	3-50D4	2D	5Y4G	5Q
2S/4S	5D	3-50G2	2D	5Z3	4C
2V3G	4Y	3-75A2	2D	5Z4	5L

OPERATOR'S REFERENCE DATA—Continued

<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>
5-125B	7BM	6AL6G	6AM	6BK6	7BT
6	4A	6AL7GT	8CH	6BL7GT	8BD
6A3	4D	6AM5	6CH	6BN6	7DF
6A4	5B	6AM6	7DB	6BN7	S40
6A5G	6T	6AN5	7BD	6BQ6GT	6AM
6A5GT	6T	6AN6	7BJ	6BQ7	9AJ
6A6	7B	6AN7	9Q	6BT6	7BT
6A6M5	6CH	6AQ5	7BZ	6BU6	7BT
6A7	7C	6AQ6	7BT	6BW6	9AM
6A7M	8A	6AQ7	S51	6BY5G	6CN
6A7S	7C	6AQ7GT	8CK	6BQ6GT	6AM
6A8	8A	6AR5	6CC	6C4	6BG
6AB4	5CE	6AR6	6BQ	6C5	6Q
6AB5	6R	6AS5	7CV	6C5G	6Q
6AB6G	7AU	6AS6	7CM	6C6	6F
6AB7	8N	6AS7G	8BD	6C7	7G
6AC5G	6Q	6AT6	7BT	6C8G	8G
6AC5GT	6Q	6AU5GT	6CK	6CB6	7CM
6AC6G	7AU	6AU6	7BK	6CD6G	5BT
6AC7	8N	6AV5GT	6CK	6CG6	7BK
6AD5G	6Q	6AV6	7BT	6D4	5AY
6AD6G	7AG	6AX4GT	4CG	6D5	6Q
6AD7G	8AY	6AX5GT	6S	6D6	6F
6AE5G	6Q	6AX6G	7Q	6D7	7H
6AE5GT	6Q	6B4G	5S	6D8G	8A
6AE6G	7AM	6B5	6AS	6E5	6R
6AE6GT	7AH	6B6G	7V	6E6	7B
6AE7GT	7AX	6B7	7D	6E7	7H
6AE8	9Q	6B8	8E	6E8G	80
6AF5G	6Q	6BA6	7CC	6F5	5M
6AF6G	7AG	6BA7	8CT	6F5G	5M
6AF7	8AG	6BC5	7BD	6F6	7S
6AF7G	8AG	6BC7	9AX	6F7	7E
6AG5	7BD	6BD5GT	6CK	6F7S	7E
6AG6	7S	6BD6	7CC	6F8G	8G
6AG6G	7S	6BD7	9Z	6G5	6R
6AG7	8Y	6BE6	7CH	6G6G	7S
6AH5G	6AP	6BE7	9AA	6G7	7N
6AH6	7CC	6BF5	7BZ	6G7S	7N
6AH7GT	8BE	6BF6	7BT	6H4GT	5AF
6AJ5	7BD	6BF7	8DG	6H5	6R
6AJ7	8N	6BG6	5BT	6H6	7Q
6AK5	7BD	6BG6G	5BT	6H7	7F
6AK6	7BK	6BG7	8DG	6H7S	7P
6AK7	8Y	6BH6	7CM	6H8G	8E
6AL5	6BT	6BJ5	6CH	6J4	7BQ
6AL6	6AM	6BJ6	7CM	6J5	6Q

ORIGINAL

NON-REGISTERED

3—3

OPERATOR'S REFERENCE DATA—Continued

<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>
6J6	7BF	6SC7	8S	6Y6G	7AC
6J7	7R	6SD7GT	8M	6Y7G	8B
6J7G	7R	6SE7GT	8N	6Z3	4G
6J7GT	7R	6SF5	6AB	6Z4	5D
6J8G	8H	6SF7	7AZ	6Z5	6K
6K5G	5U	6SG7	8BK	6Z6	7Q
6K5GT	5U	6SH7	8BK	6Z7G	8B
6K6G	7S	6SH7L	8BK	6ZY5G	6S
6K6GT	7S	6SJ7	8N	7	4A
6K7	7R	6SI7Y	8N	7A4	5AC
6K8	8K	6SK7	8N	7A5	6AA
6L5G	6Q	6SL7GT	8BD	7A6	7AJ
6L6	7AC	6SN7GT	8BD	7A7	8V
6L6GX	7AC	6SN7GTA	8BD	7A8	8U
6L7	7T	6SQ7	8Q	7AB7	8B0
6M5	9N	6SR7	8Q	7AD7	8V
6M6G	7S	6SS7	8N	7AF7	8AC
6M7G	7R	6ST7	8Q	7AG7	8V
6M8GT	8AU	6SU7GTY	8BD	7AH7	8V
6N4	7CA	6SV7	7AZ	7AJ7	8V
6N5	6R	6SZ7	8Q	7AK7	8V
6N6G	7AU	6T5	6R	7AP4	5AJ
6N7	8B	6T6GM	6Z	7B4	5AC
6N8	9T	6T7	7V	7B5	6AE
6P5G	6Q	6T7G	7V	7B6	8W
6P5GT	6Q	6T8	9E	7B7	8V
6P6	6AC	6U4GT	4CG	7B8	8X
6P7G	7U	6U5	6R	7BP1	5AN
6P8G	8K	6U6GT	7AC	7C4	4AH
6Q4	9S	6U7G	7R	7C5	6AA
6Q5G	6Q	6U8	9AE	7C6	8W
6Q6G	6Y	6V4	9M	7C7	8V
6Q7	7V	6V5G	6A0	7CP1	6AZ
6R4	9R	6V6	7AC	7D7	8AR
6R6G	6AW	6V6GT	7AC	7E5	8BN
6R7	7V	6V7G	7V	7E6	8W
6R8	9E	6V8	9AH	7E7	8AE
6S4	9AC	6W4GT	4CG	7F7	8AC
6S5	6R	6W5G	6S	7F8	8BW
6S6GT	5AK	6W6GT	7AC	7G7	8V
6S7	7R	6W7G	7R	7G8	8BV
6S7G	7R	6X4	7CF	7H7	8V
6S8GT	8CB	6X5	6S	7J7	8AR
6SA7	8R	6X6G	7AL	7K7	8BF
6SA7GT	8AD	6X8	9AK	7L7	8V
6SB7	8R	6Y3G	4AC	7N7	8AC
6SB7Y	8R	6Y5	6J	7Q7	8AL

OPERATOR'S REFERENCE DATA—Continued

<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>
7R7	8AE	12BK6	7BT	14B8	8X
7S7	8BL	12BN6	7DF	14C5	6AA
7T7	8V	12BT6	7BT	14C7	8V
7V7	8V	12BU6	7BT	14E6	8W
7W7	8BJ	12C8	8E	14E7	8AE
7X7	8BZ	12CP4	4AF	14F7	8AC
7Y4	5AB	12DP4	5AN	14F8	8BW
7Z4	5AB	12E5GT	60	14H7	8V
8	4A	12EU6	7BT	14J7	8BL
9	4A	12F5GT	5M	14N7	8AC
9AP4	6AL	12G7G	7V	14Q7	8AL
9CP4	4AF	12H6	7Q	14R7	8AE
9JP1	8BR	12J5GT	6Q	14S7	8BL
10	4D	12J7GT	7R	14V7	8V
10Y	4D	12K7GT	7R	14W7	8BJ
11/12	4F	12K8	8K	14Y4	5AB
12A	4D	12L8GT	8BU	14Z3	4G
12A4	9AG	12Q7GT	7V	15	5F
12A5	7F	12S8GT	8CB	17	3G
12A6	7AC	12SA7	8R	18	6B
12A7	7K	12SA7GT	8AD	19	6C
12A8GT	8A	12SC7	8S	19AQ5	7BZ
12AHGT	8BE	12SF5	6AB	19BG6G	5BT
12AL5	6BT	12SF7	7AZ	19C8	9E
12AP4	6AL	12SG7	8BK	19J6	7BF
12AT6	7BT	12SH7	8BK	19T8	9E
12AT7	9A	12SJ7	8N	19V8	9AH
12AU6	7CC	12SK7	8N	20	4D
12AU7	9A	12SL7GT	8BD	20J8GM	8H
12AV6	7BT	12SN7GT	8BD	21A7	8AR
12AV7	9A	12SQ7	8Q	22	4K
12AW6	7CM	12SR7	8Q	24A	5E
12AW7	7CM	12SW7	8Q	24G	2D
12AX4GT	4CG	12SW7GT	8Q	24S	5E
12AX7	9A	12SX7	8BD	24XH	S11
12AY7	9A	12SX7GT	8BD	25	6M
12AZ7	9A	12SY7	8R	25A6	7S
12B6M	6Y	12SY7GT	8AD	25A7G	8F
12B7	8V	12X3	4B	25A7GT	8F
12B7ML	8V	12Z3	4G	25AC5G	6Q
12B8GT	8T	12Z5	7L	25AC5GT	6Q
12BA6	7CC	14	5E	25AV5GT	6CK
12BA7	8CT	14A4	5AC	25B5	6D
12BD6	7CC	14A5	6AA	25B6G	7S
12BE6	7CH	14A7	8V	25B8GT	8T
12BF6	7BT	14AF7	8AC	25BQ6GT	6AM
12BH7	9A	14B6	8W	25C6G	7AC

OPERATOR'S REFERENCE DATA—Continued

<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>
25D8GT	8AF	35Z5G	6AD	53A	S61
25L6	7AC	35Z5GT	6AD	55	6G
25N6G	7W	35Z6G	7Q	56	5A
25S	6M	36	5E	56S	5A
25T	3G	37	5A	56AS	5A
25W4GT	4CG	38	5F	57	6F
25X6GT	7Q	39/44	5F	57S	6F
25Y4GT	5AA	40	4D	57AS	6F
25Y5	6E	40Z5	6AD	58	6F
25Z3	4G	40Z5GT	6AD	58S	6E
25Z4	5AA	41	6B	58AS	6F
25Z5	6E	41M	7S	59	7A
26Z5W	9BS	42	6B	59A	7A
25Z6	7Q	42A2	S5	59S	7A
26	4D	42B2	S5	64	5E
26A6	7BK	43	6B	65	5E
26BK6	7BT	43MG	7S	67	5A
26A7GT	8BU	44	5S	68	5E
26C6	7BT	45	4D	69	5E
26CG6	7BK	45Z3	5AM	70	6N
26D6	7CH	45Z5GT	6AD	70A7GT	8AB
27	5A	46	5C	70L7GT	8AA
27S	5A	46A1	S7	71-A	4D
27HM	5A	46B1	S7	72	4P
28D7	8BS	47	5B	73	4Y
28Z5	5AB	48	6A	75	6G
29	6N	49	5C	75M	7V
30	4D	49A2	S5	75S	6G
31	4D	49B2	S5	75TH	2D
32	4K	50	4D	75TL	2D
32L7GT	8Z	50A5	6AA	76	5A
33	5K	50AX6G	7Q	77	6F
34	4M	50B5	7BZ	77M	7R
35/51	5E	50C5	7CV	78	6F
35A5	6AA	50C6G	7AC	78S	6F
35A5-LT	6AA	50C6GT	7AC	79	6H
35B5	7BZ	50L6GT	7AC	80	4C
35C5	7CV	50T	2D	81	4B
35L5-GT/G	7AC	50AX6G	7Q	82	4C
35L6GT	7AC	50X6	7AJ	82V	4L
35T	3G	50Y6GT	7Q	83	4C
35TG	2D	50Y7GT	8AN	83-V	4AD
35W4	5BQ	50Z6G	7Q	84/6Z4	5D
35Y4	5AL	50Z7G	8AN	85	6G
35Z3	4Z	51	5E	85L7	8AB
35Z3-LT	4Z	52	5C	85M	7V
35Z4GT	5AA	53	7B	85S	6G

OPERATOR'S REFERENCE DATA—Continued

<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>
85AS	6G	213B	4C	483	4D
86M	6Q	216	4B	484	5A
87S	6F	216B	4B	485	5A
88	4C	217A	4AT	486	S6
88S	6F	217C	4AT	527	S63
89	6F	227A	S61	559	S26
89RS	7N	241B	S58	575A	4AT
90	6N	242A	4E	585	4D
91	6N	242B	4E	586	4D
92	6N	242C	4E	592	S44
95	6B	249B	S45	717A	8BK
96	4G	250TH	2N	756	4D
98	5D	250TL	2N	800	2D
99	4D	254A	S64	801	4D
100TH	2D	254B	S64	801A	4D
100TL	2D	257	4E	802	6BM
111H	2D	261A	4E	803	5J
112A	4D	264	4D	804	S68
114B	8AB	276A	4E	805	3N
117L7GT	8A0	282A	S64	806	2N
117M7GT	8A0	284B	3N	807	5AW
117N7GT	8AV	284D	4E	807W	5AW
117P7GT	8AV	291	5G	808	2D
117Z3	4BR	293	5G	809	3G
117Z4GT	5AA	295	5G	810	2N
117Z6GT	7Q	295A	4E	811	3G
128AS	5A	300T	2N	811A	3G
150T	2N	303A	4E	812	3G
152TH	4BC	304B	2D	812A	3G
152TL	4BC	304TH	4BC	812H	3G
165R	4A	304TL	4BC	813	5BA
165R4	S4	305A	S66	814	S71
165R8	S4	306A	S70	815	8BY
181	4D	307A	S68	816	4P
182A	4D	308B	S57	822	3N
182B	4D	310	4D	822S	2N
183	4D	311	4E	826	7BO
185R	4A	311CH	S48	828	5J
185R4	S4	312A	S75	829	7BP
185R8	S4	312E	S58	829A	7BP
203-A	4E	342B	4E	829B	7BP
203-H	3N	356A	S62	830	4D
205D	4D	361A	4E	830B	3G
210T	4D	376A	4E	832	7BP
211	4E	482	4C	832A	7BP
212-E	S57	482A	4D	834	2D
213	4C	482B	4D	835	4E

OPERATOR'S REFERENCE DATA—Continued

<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>
836	4P	986	4C	1631	7AC
837	6BM	1003	4R	1632	7AC
838	6E	1005	5AQ	1633	8BD
840	5J	1006	4C	1634	8S
841	4D	1201	8BN	1635	8B
841A	3G	1203	4AH	1641	S60
841SW	3G	1204	8B0	1642	7BH
842	4D	1206	8BV	1644	S16
843	5A	1221	6F	1654	2Z
844	5AW	1223	7R	1800	6AL
852	2D	1229	4K	1801	S22
860	S65	1230	4D	1803P4	6AL
864	4D	1231	8V	1804P4	6AL
865	S64	1232	8V	1809P1	8BR
866	4P	1265	4AJ	1811P1	6AZ
866A	4P	1266	4AJ	1851	7R
866B	4P	1267	4V	1852	8N
866jr	4B	1273	8V	1853	8N
871	4P	1274	6S	2001	4AA
872	4AT	1275	4C	2002	S11
872A	4AT	1276	4D	2005	S11
874	4S	1280	8V	2050	8BA
878	4P	1284	8V	2051	8BA
879	4P	1291	7BE	2523N/128AS	5A
884	6Q	1293	4AA	5514	4B0
885	5A	1294	4AH	5516	7CL
902	S11	1299	6BB	5517	5BU
903	6AL	1602	4D	5556	4D
904	S12	1603	6F	5562	S46
905	S15	1608	4D	5590	7BD
906P1	7AN	1609	5B	5591	7BD
907	S15	1610	S69	5618	7CU
908	7AN	1611	7S	5635	8DB
908A	7CE	1612	7T	5639	8DL
909	S15	1613	7S	5641	6CJ
910	7AN	1614	7AC	5643	8DD
911	7AN	1616	4P	5644	4CN
912	S17	1619	S81	5647	B1
913	S11	1620	7R	5651	5B0
914	S21	1621	7S	5654	7BD
930B	3G	1622	7AC	5656	9F
938	4E	1623	3G	5663	7CE
950	5K	1624	S73	5670	8CJ
951	4M	1625	5AZ	5675	S36
967	3G	1626	6O	5679	7CX
975A	4AT	1627	2N	5686	S31
985	5D	1629	7AL	5686	S31

OPERATOR'S REFERENCE DATA—Continued

<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>
5687	9H	5910	6AR	AX9905	S35
5691	8BD	5915	7CH	B	4E
5692	8BD	5916	8DC	BA	4J
5693	8N	5933	5AW	BH	4J
5718	8DK	5962	2AG	BR	4H
5719	8DK	5963	9A	BX	4D
5722	5CB	5964	7BF	CE220	4P
5725	7CM	6005	7BZ	CK1005	5AQ
5726	6BT	6073	S52	CK1006	4C
5749	7BK	6074	S53	CK1007	S80
5750	7CH	6080	S54	D $\frac{1}{2}$	4B
5751	9A	6082	S55	D1	4C
5755	9J	6146	7CK	DE	4D
5763	9K	6159	S56	DR3B27	4P
5764	S36	7000	7R	DR123C	S28
5765	S36	7193	4AM	DR200	2N
5766	S36	7700	6F	E	4D
5767	S36	8000	2N	EF50	9C
5768	S36	8001	7BM	F123A	S28
5794	S36	8003	3N	F127A	S28
5812	7CQ	8005	3G	G	4D
5814	9A	8008	S20	GA	5B
5823	4CK	8013-A	4P	G84	4B
5824	7S	8016	4AC	GL2C44	S25
5825	4P	8020	4P	GL5C24	S28
5840	8DL	8025	4AQ	GL5D24	5BK
5842	9V	9001	7BD	GL146	S63
5844	7BF	9002	7BS	GL152	S63
5845	5CA	9003	7BD	GL159	S63
5847	9X	9006	6BH	GL169	S63
5866	S14	A5	5H	GL446A	S27
5876	S36	A6	6N	GL446B	S27
5879	9AD	A22	4D	GL464A	S25
5881	7AC	A26	4D	GL559	S26
5896	8DJ	A28	4D	GL592	S44
5897	8DK	A30	4Q	G2	5D
5898	8DK	A32	4Q	G2S	5D
5899	8DL	A40	4Q	G4	5D
5900	8DL	A48	4Q	G4S	5D
5901	8DL	AC22	5E	G84	5D
5902	8DL	AD	4G	H	4D
5903	8DJ	AF	4C	HD203A	3N
5904	8DK	AG	4C	HF60	2D
5905	8DL	AX	4Q	HF75	2D
5906	8DL	AT-340	5BK	HF100	2D
5907	8DL	AX9900	S14	HF120	4F
5908	8DC	AX9903	S19	HF140	4F

ORIGINAL

NON-REGISTERED

3—9

OPERATOR'S REFERENCE DATA—Continued

<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>	<i>Tube Type</i>	<i>Base</i>
HF200	2N	HY114B	2T	RK24	4D
HF250	2N	HY115	5K	RK25	6BM
HF300	2N	HY123	5K	RK25B	6BM
HK24	3G	HY125	5K	RK28	5J
HK54	2D	HY145	5K	RK28A	5J
HK57	S49	HY155	5K	RK30	2D
HK154	2D	HY615	S78	RK31	3G
HK158	2D	HY801A	4D	RK32	2D
HK252L	4BC	HY866jr	4P	RK33	S76
HK253	4AT	HY1231Z	S67	RK34	S77
HK254	2N	HY1269	S72	RK35	2D
HK257	7BM	HYE1148	S78	RK36	2D
HK257B	7BM	K24	5E	RK37	2D
HK304L	4BC	K27	5A	RK38	2D
HK354	2N	KR1	4G	RK39	5AW
HK354C	2N	KR2	4G	RK41	5AW
HK354D	2N	KR5	5B	RK42	4D
HK354E	2N	KR20	6N	RK43	6C
HK354F	2N	KR22	6N	RK44	6BM
HK454H	2N	KR25	6B	RK46	S68
HK454L	2N	KR28	5D	RK47	S71
HK654	2N	KR31	4G	RK48	S71
HV12	3N	KR98	5D	RK48A	S71
HV27	3N	KR7184	S9	RK49	6A
HV18	2N	KY866	S17	RK51	3G
HY6J5GTX	6Q	LA	5B	RK52	3G
HY6L6GTX	7AC	NU-2C35	S38	RK56	5AW
HY6V6GTX	7AC	P861	5D	RK57	3N
HY24	4D	PE340	5BK	RK58	3N
HY25	3G	PZ	5B	RK59	S67
HY30Z	4B0	PZH	5B	RK60	S60
HY31Z	S67	RA1	4Q	RK62	4D
HY40	3G	RE1	4C	RK63	2N
HY40Z	3G	RE2	4B	RK63A	2N
HY51A	3G	RK10	4D	RK64	5AW
HY51B	3G	RK11	3G	RK66	S68
HY51Z	4B0	RK12	3G	RK75	S68
HY57	3G	RK15	4D	RK100	S74
HY60	5AW	RK16	5A	RK866	4P
HY61	5AW	RK17	5F	S01	4Q
HY63	S79	RK18	3G	S02	4D
HY65	S79	RK19	4AT	T20	3G
HY67	S72	RK20	S68	T21	6A
HY69	S71	RK20A	S68	T40	3G
HY75	2T	RK21	4P	T55	3G
HY75A	2T	RK22	S60	T60	2D
HY113	5K	RK23	6BM	T100	2D

OPERATOR'S REFERENCE DATA—Continued

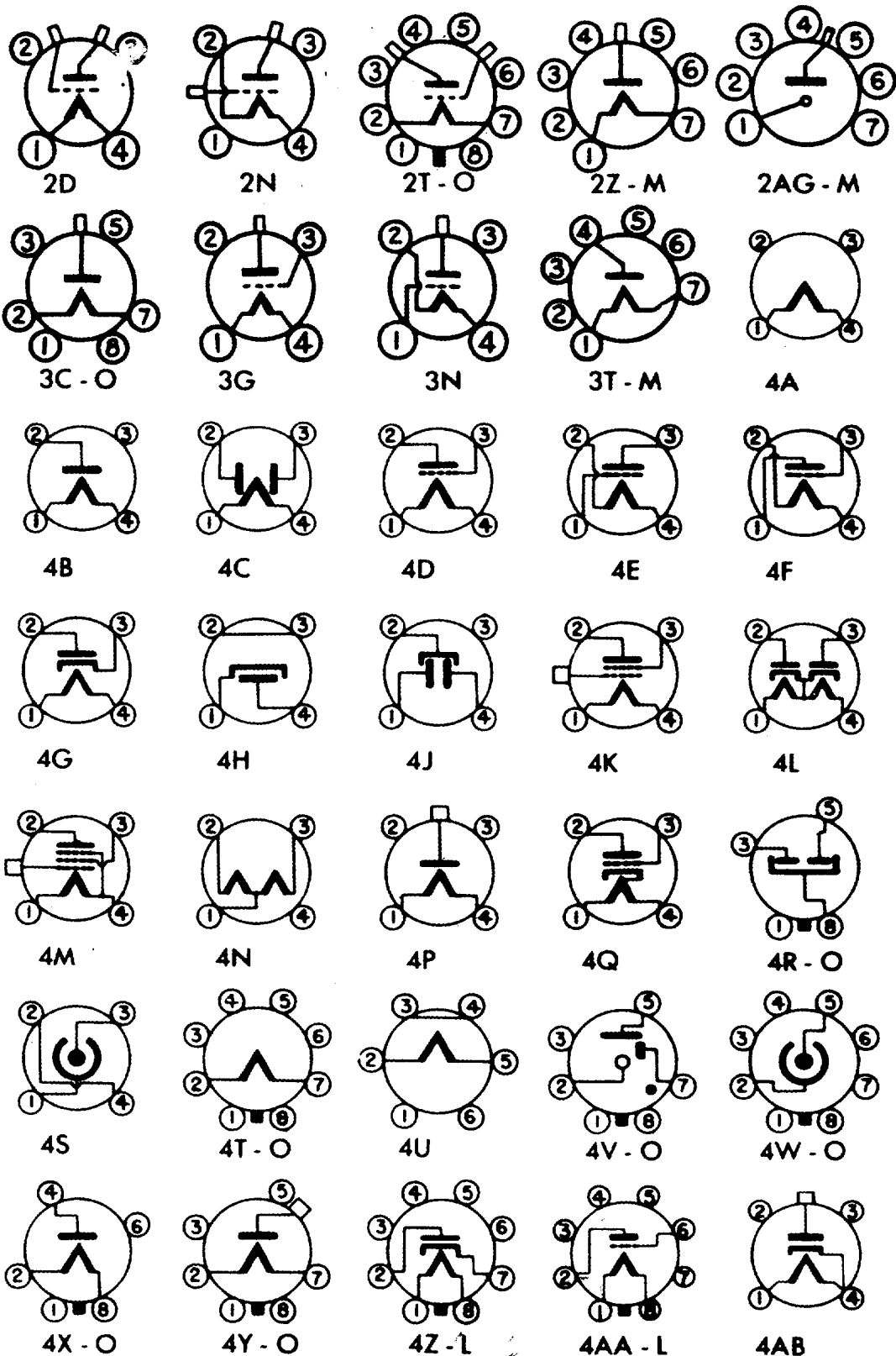
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T125	2N	V70C	3G	WE-300B	4D
T200	2N	V70D	3G	WE-304A	2D
T814	3N	V99	4E	WE-306A	S1
T822	3N	VR-50	S3	WE-307A	5J
TB35	S46	VR-75	4AJ	WE-350A	S2
TUF20	2T	VR-75-30	4AJ	WE-713A	8BK
TW75	2D	VR-90	4AJ	WE-717A	8BK
TW150	2N	VR-90-30	S3	X99	4D
TZ20	3G	VR-105	4AJ	X6030	S13
TZ40	3G	VR-105-30	4AJ	XXB	S18
UE100	2D	VR-150	4AJ	XXD	8AC
UE468	S48	VR-150-30	4AJ	XXL	5AC
UH35	3G	VT52	4D	XXFM	8BZ
UH50	2D	VT127A	S61	Z225	4P
UH51	2D	WE-215A	4D	ZB60	2D
V70	3N	WE-231D	4D	ZB120	4E
V70A	3N	WE-257A	S8		
V70B	3G	WE-300A	4D		

**SECTION 4
OPERATORS REFERENCE DATA**

TUBE BASE DIAGRAMS

**TUBE BASE
DIAGRAM**

**NAVSHIPS 91798
OPERATORS REFERENCE DATA**



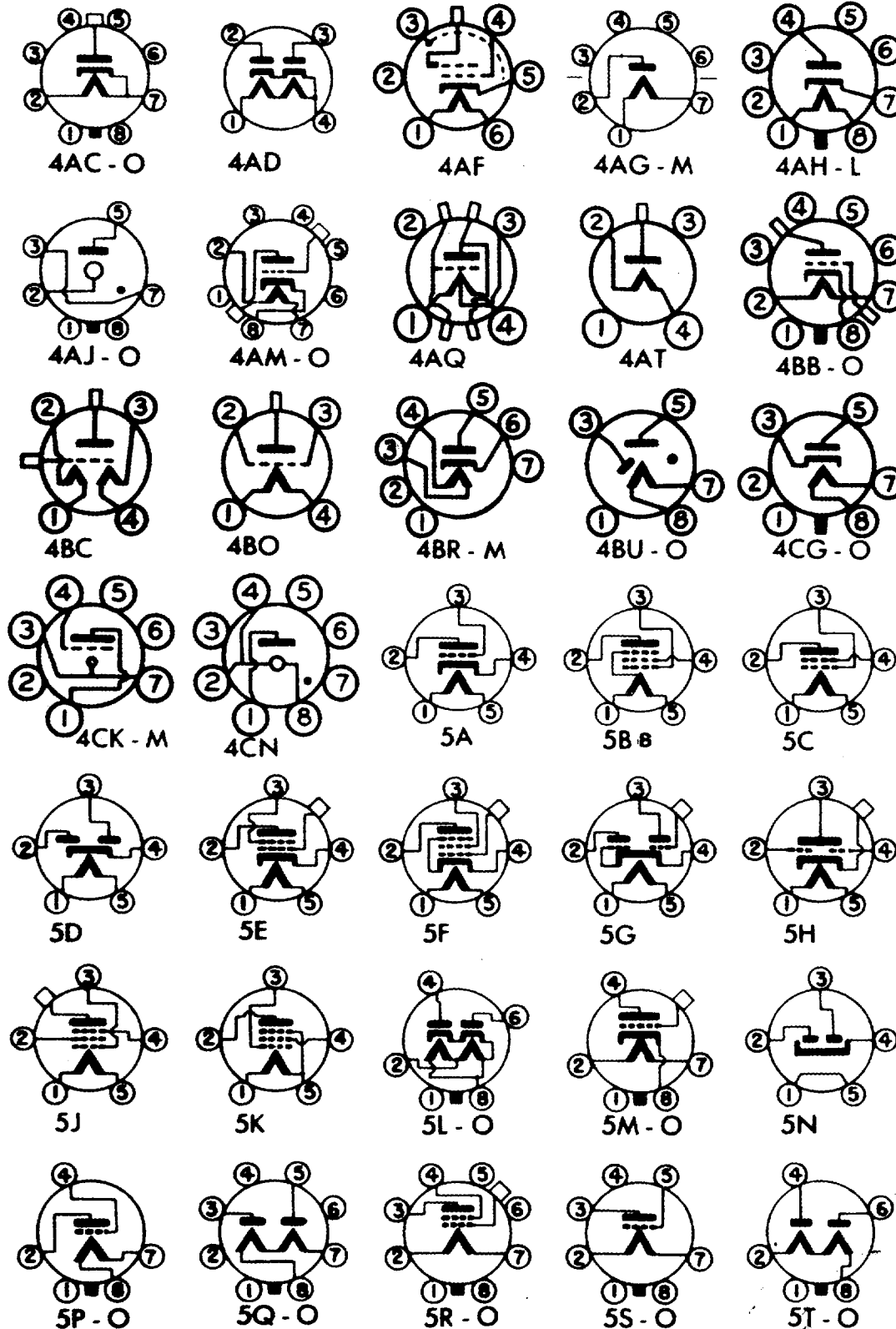
ORIGINAL

A LETTER O, L, M, OR N FOLLOWING BASE DIAGRAM NUMBER INDICATES BASE TYPES AS FOLLOWS: O-Octal; L-Loctal; M-7 Pin Miniature; N-9 Pin Miniature.

4 Section

NAVSHIPS 91798
OPERATORS REFERENCE DATA

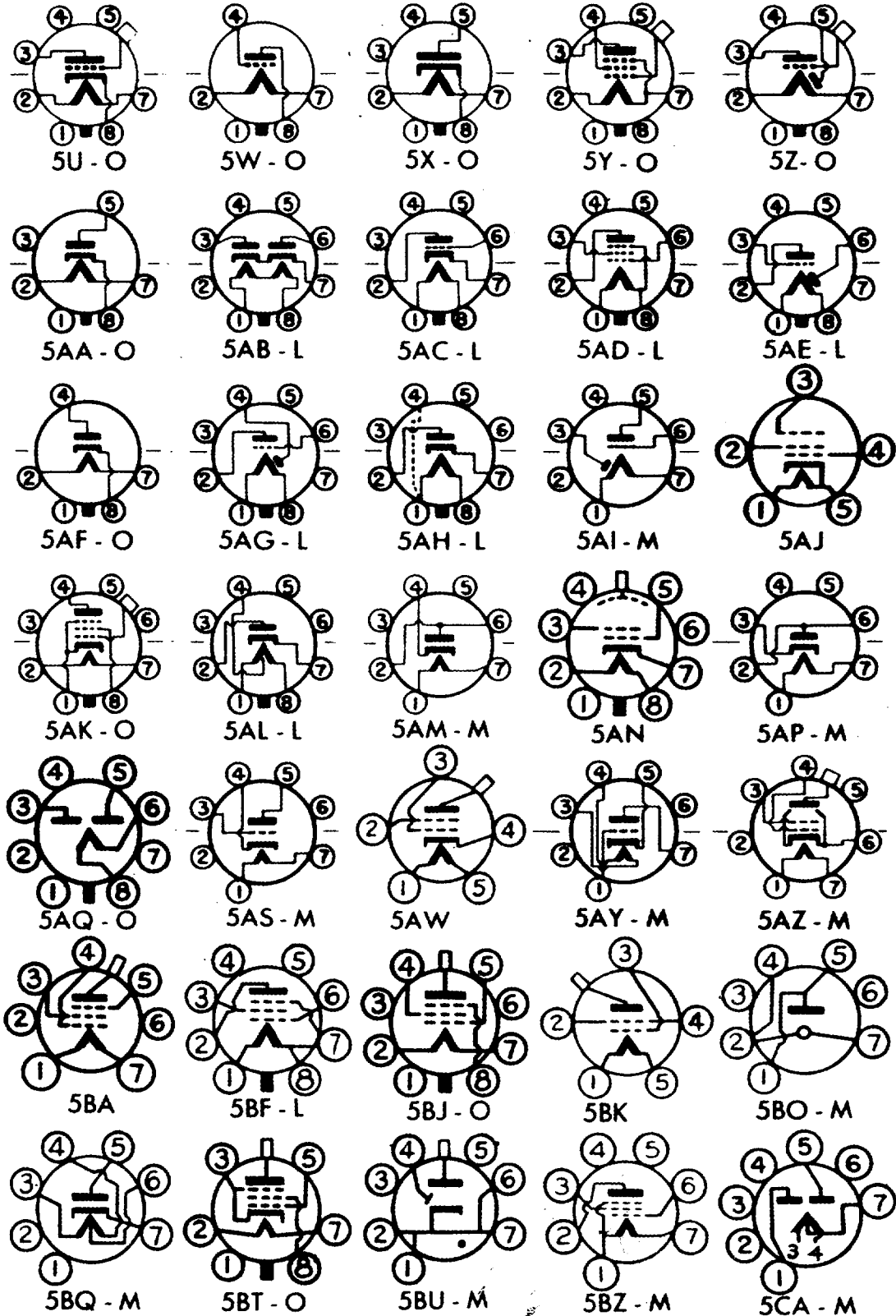
TUBE BASE
DIAGRAM



**TUBE BASE
DIAGRAM**

**NAVSHIPS 91798
OPERATORS REFERENCE DATA**

Section 4



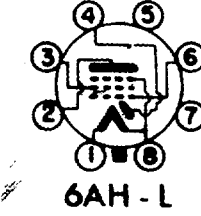
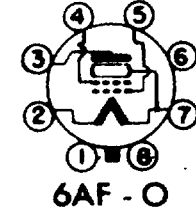
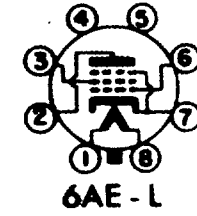
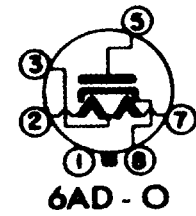
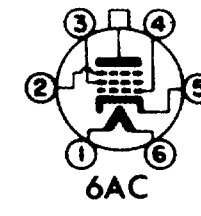
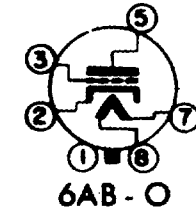
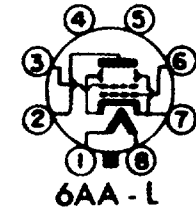
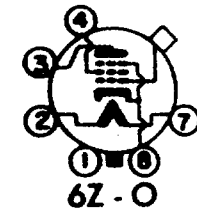
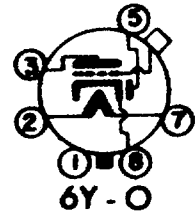
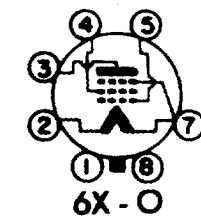
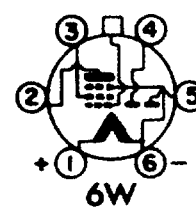
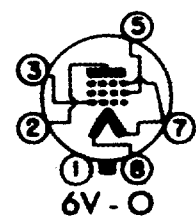
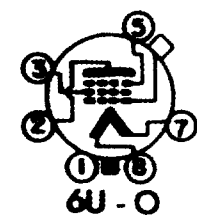
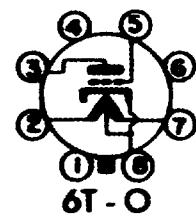
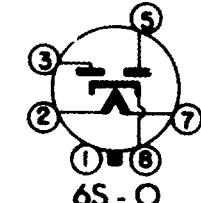
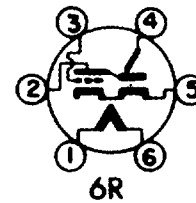
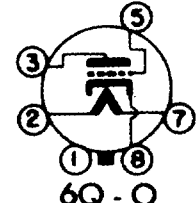
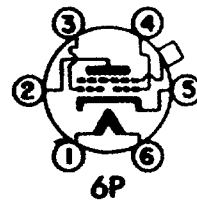
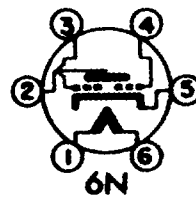
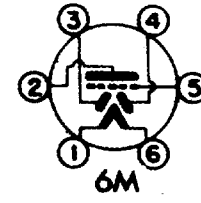
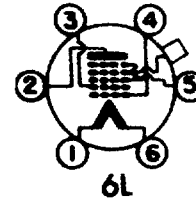
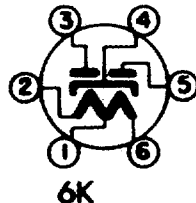
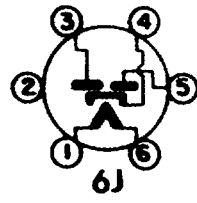
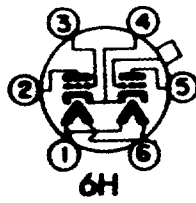
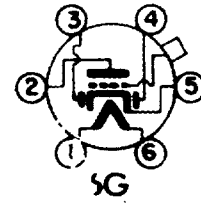
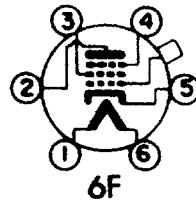
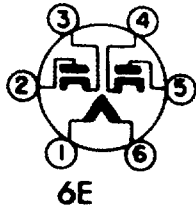
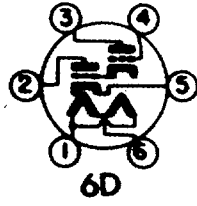
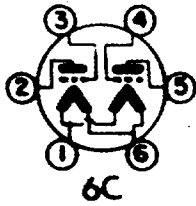
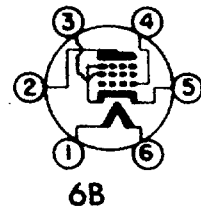
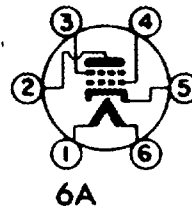
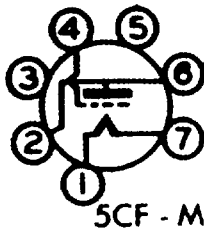
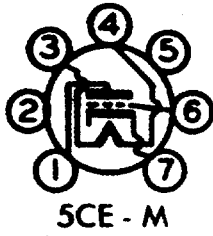
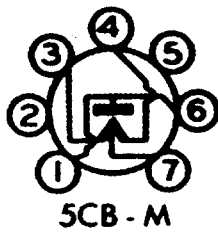
ORIGINAL

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4 Section

**NAVSHIPS 91798
OPERATORS REFERENCE DATA**

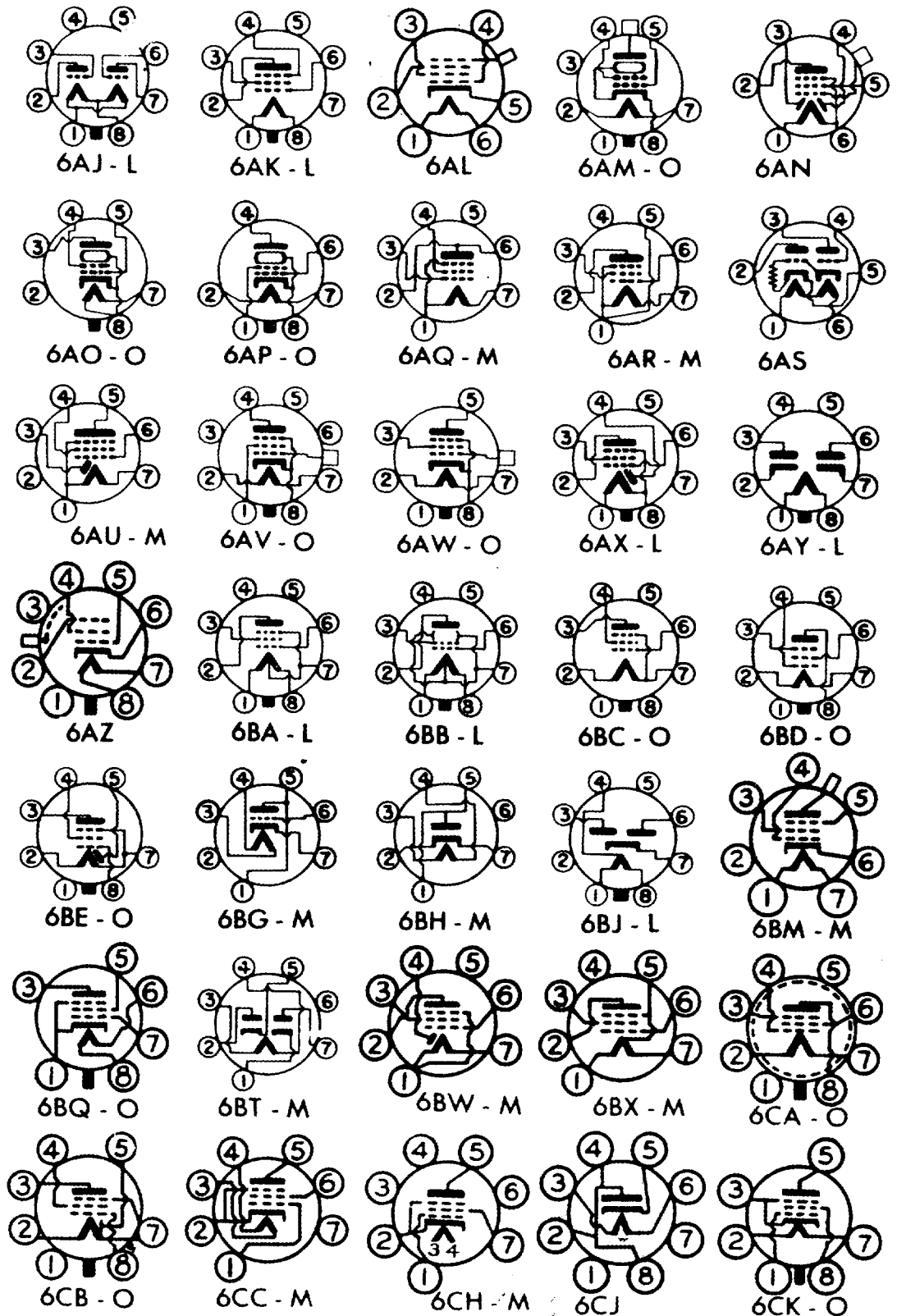
**TUBE BASE
DIAGRAM**



**TUBE BASE
DIAGRAM**

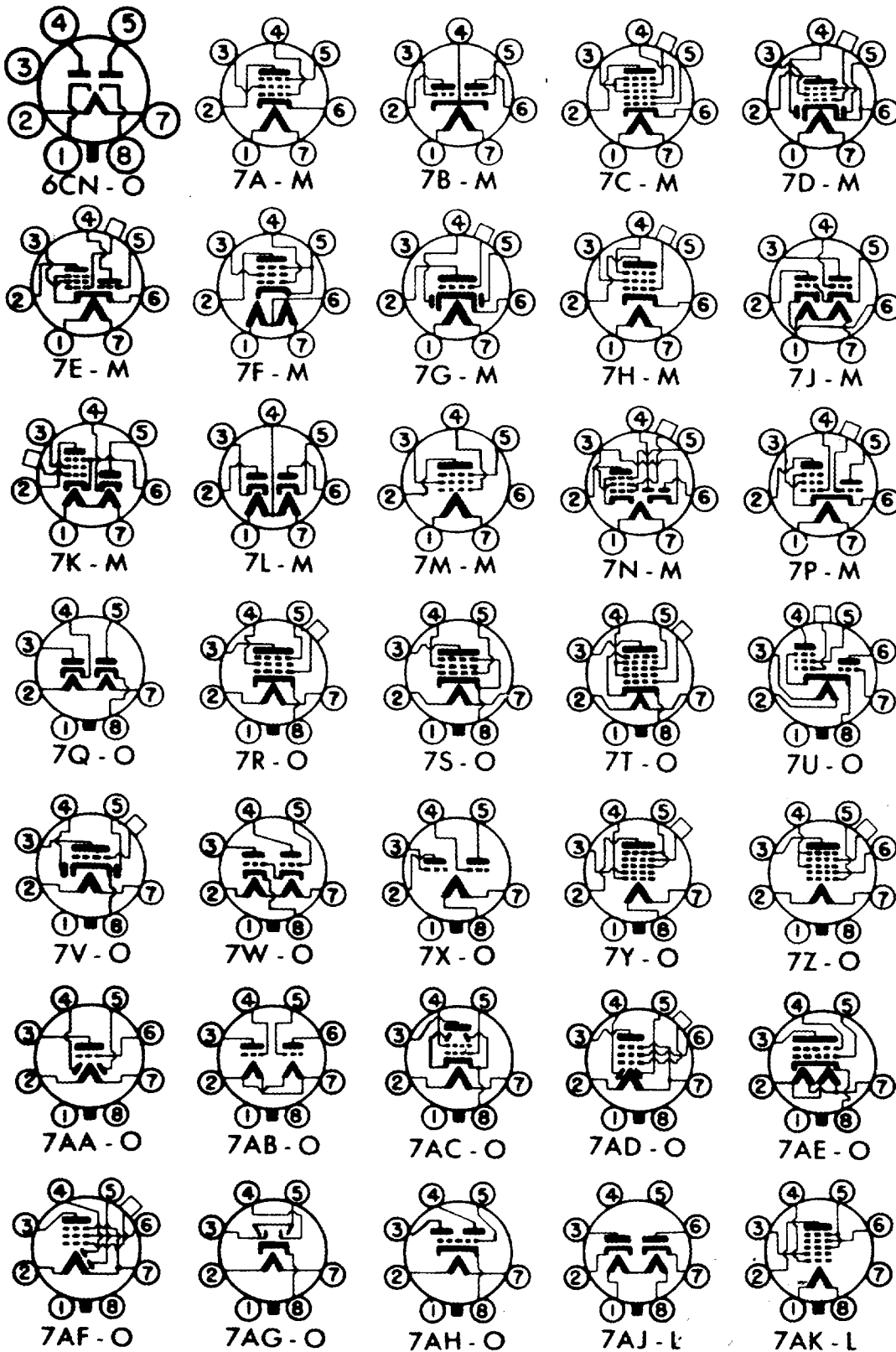
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OPERATORS REFERENCE DATA**

Section 4



ORIGINAL

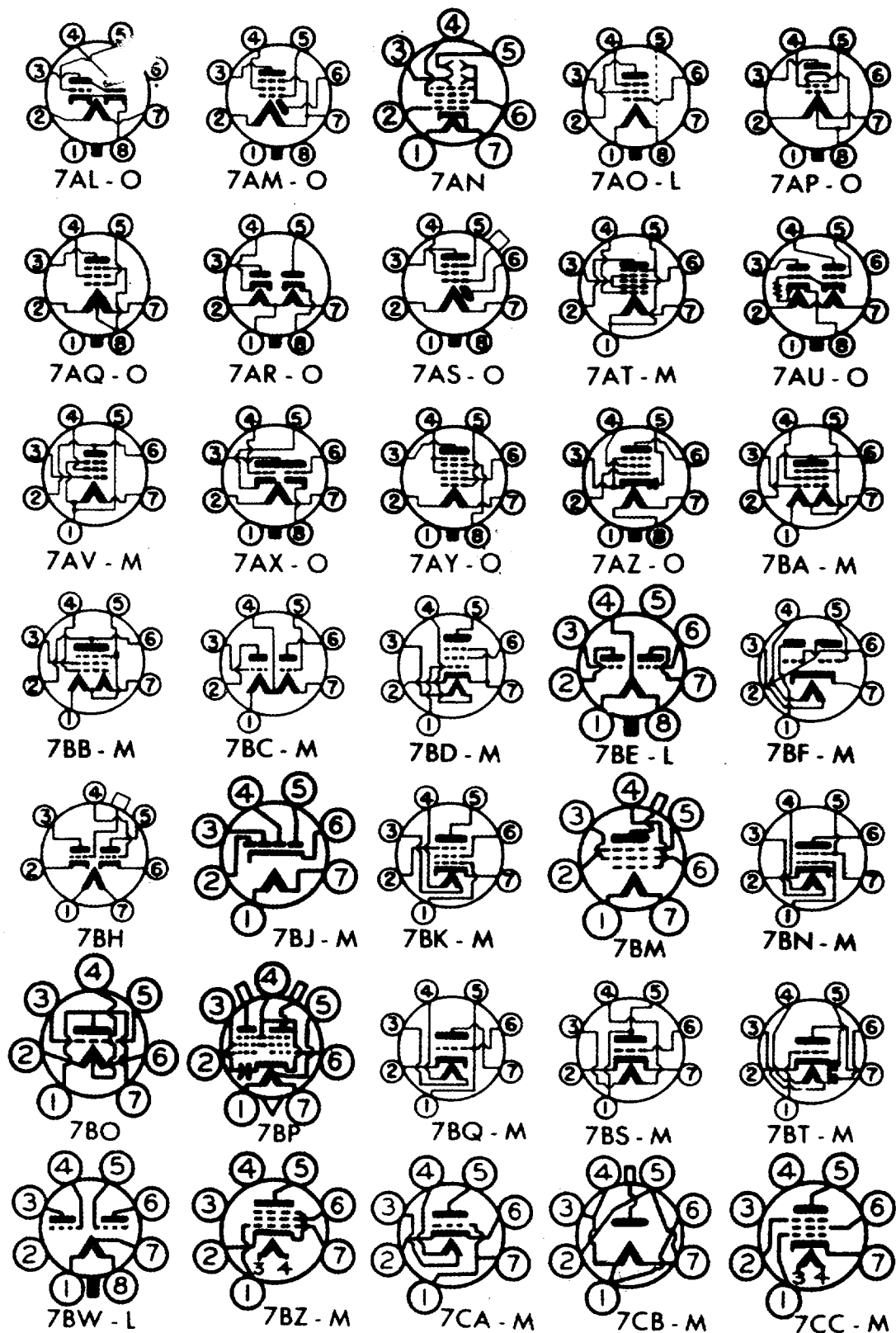
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**TUBE BASE
DIAGRAM**

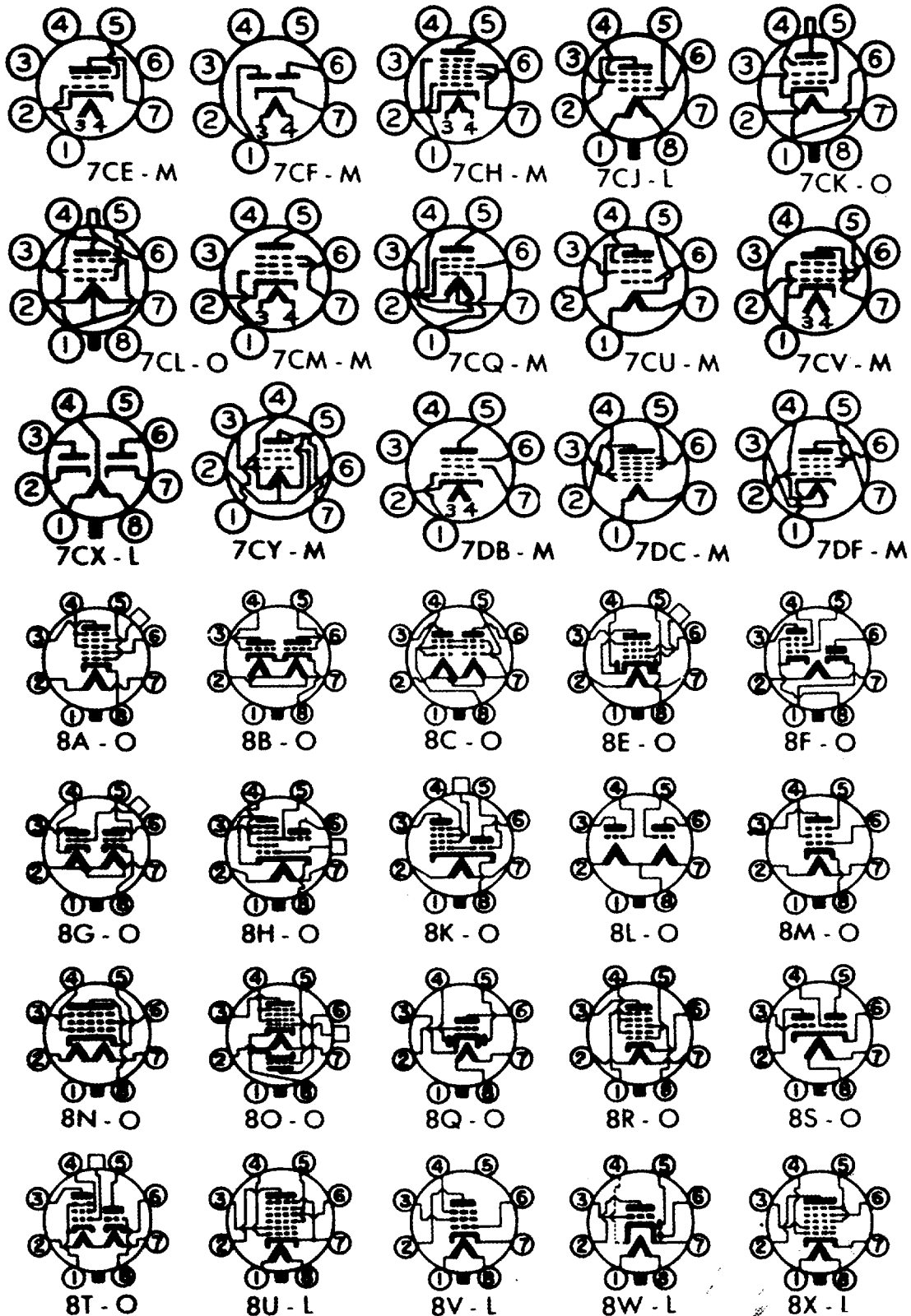
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OPERATORS REFERENCE DATA**

Section 4



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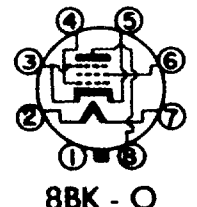
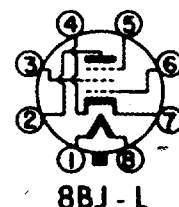
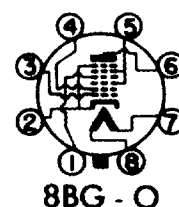
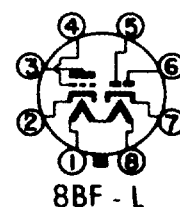
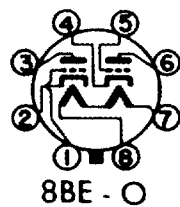
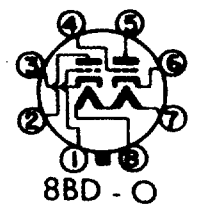
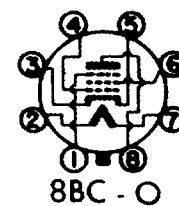
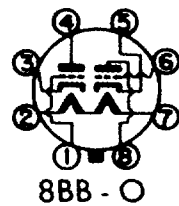
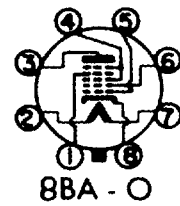
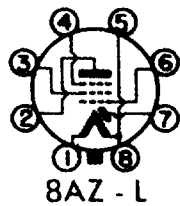
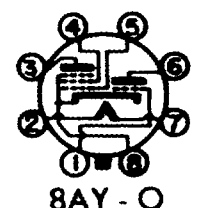
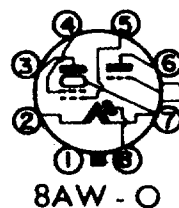
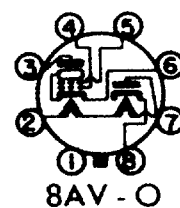
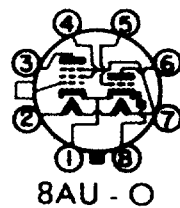
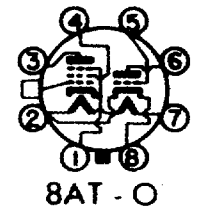
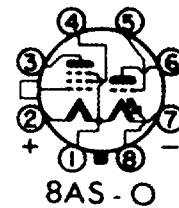
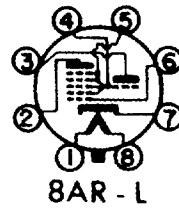
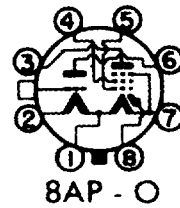
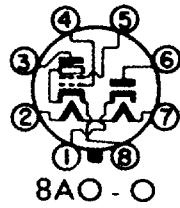
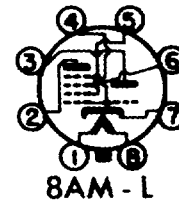
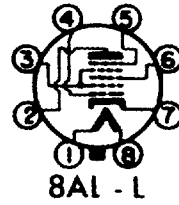
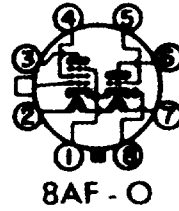
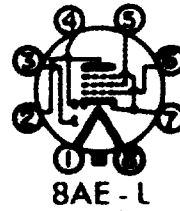
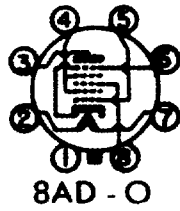
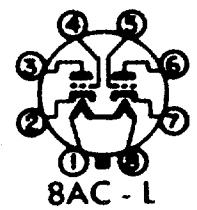
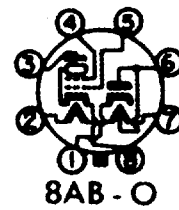
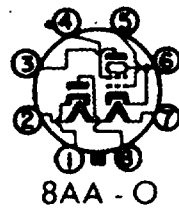
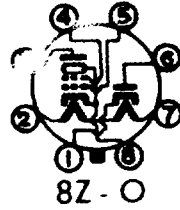
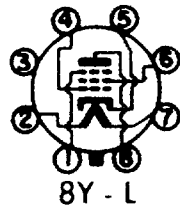
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**TUBE BASE
DIAGRAM**

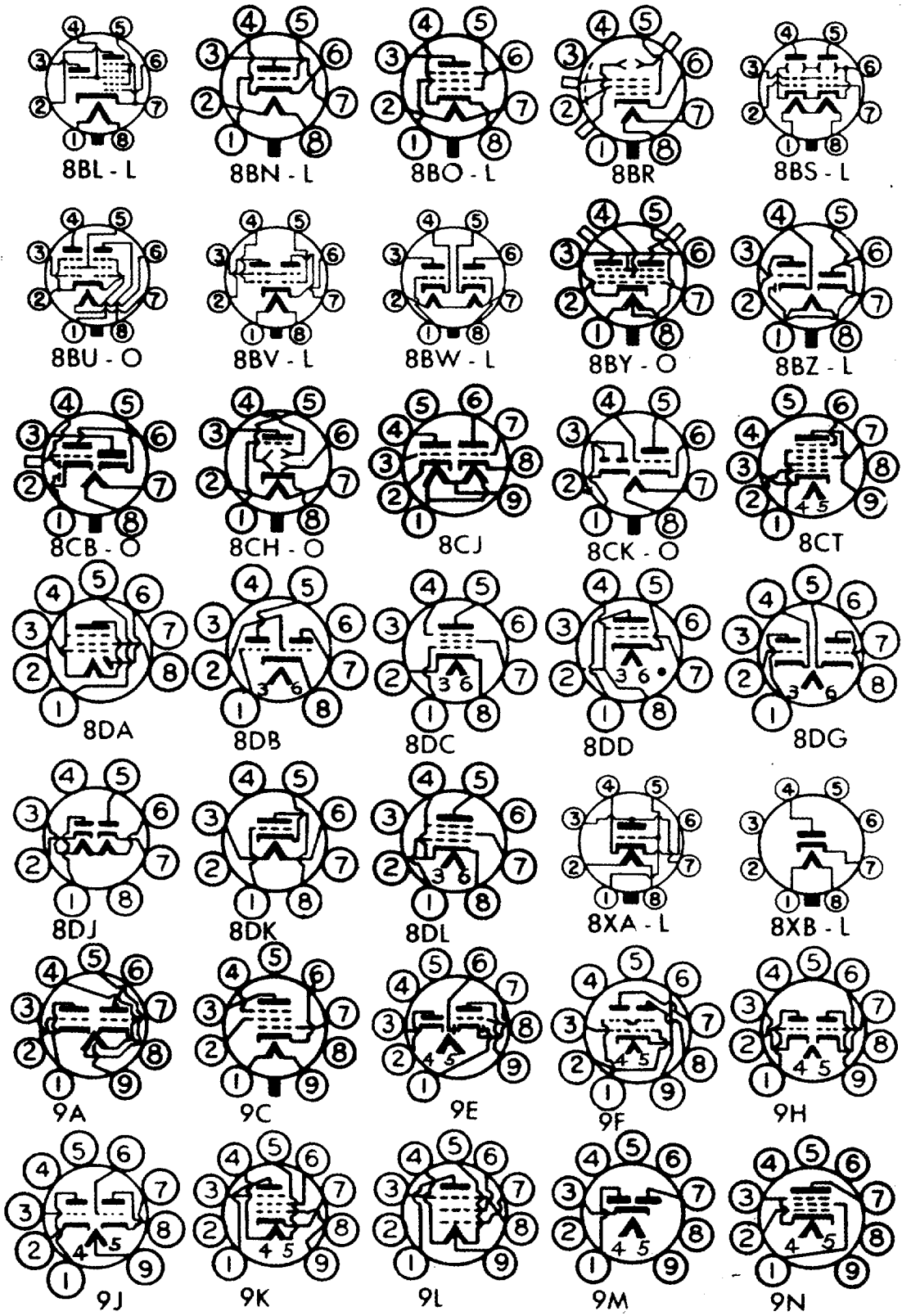
**NAVSHIPS 91798
OPERATORS REFERENCE DATA**

Section 4



ORIGINAL

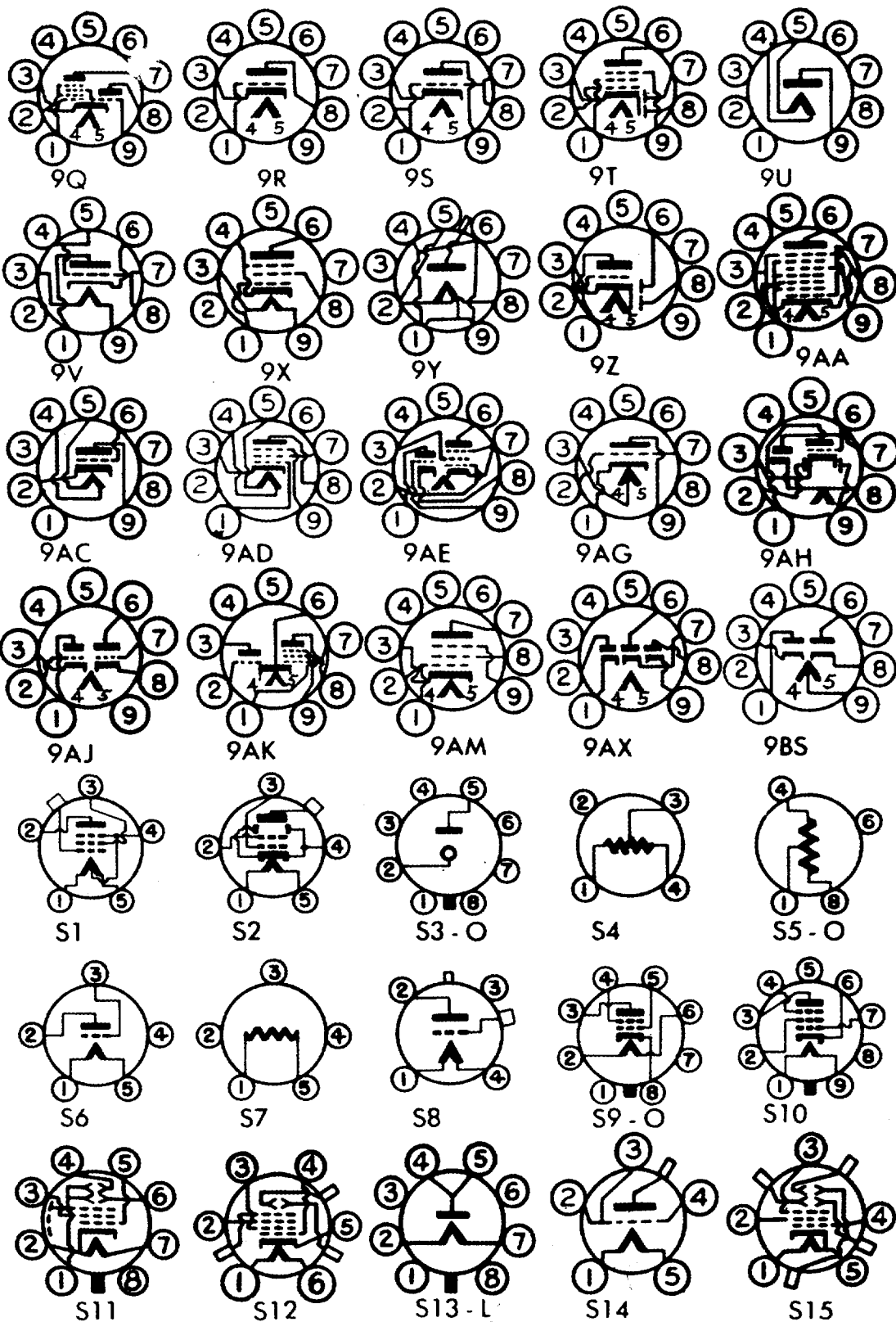
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**TUBE BASE
DIAGRAM**

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Section 4



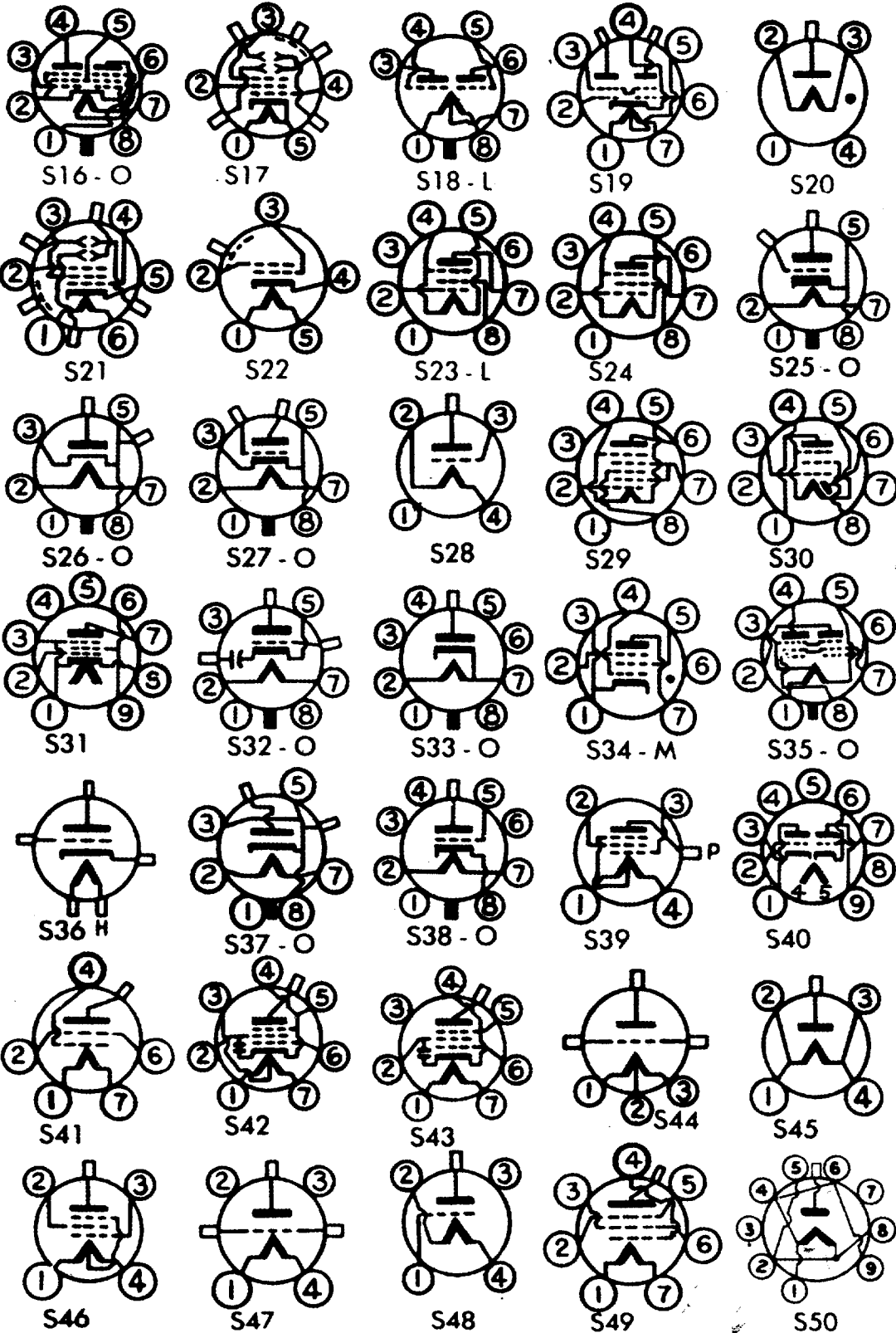
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4 Section

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OPERATORS REFERENCE DATA

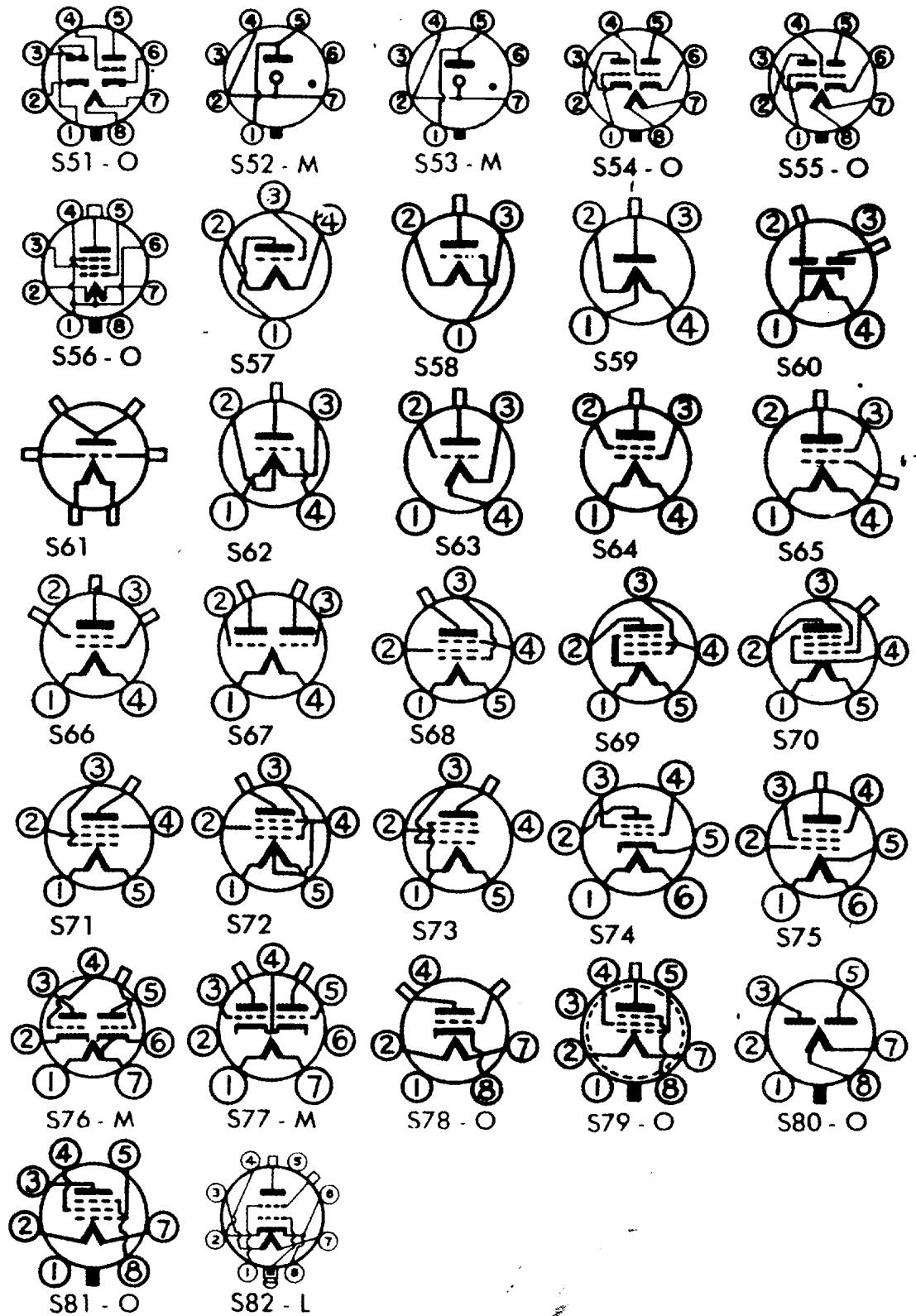
TUBE BASE
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5 Section

NAVSHIPS 91798

PARTS LISTS

**SECTION 5
PARTS LISTS**

5-0

NON-REGISTERED

ORIGINAL

**SECTION 5
PARTS LISTS**

TABLE 5-1. SHIPPING WEIGHTS AND DIMENSIONS OF SPARE PARTS BOX

STOCK SPARES						
SHIP- PING BOX NUMBER	SPARE PARTS BOX	OVERALL DIMENSIONS			VOL- UME	WEIGHT
		WEIGHT	WIDTH	DEPTH		

TABLE 5-2. LIST OF MAJOR UNITS

SYMBOL GROUP	NAME OF MAJOR UNIT	NAVY TYPE DESIGNATION
E1-E9 H3	Tube Socket Adapter Kit	MX-1258/U

TABLE 5-3. TABLE OF REPLACEABLE PARTS

REFERENCE SYMBOL	STANDARD NAVY STOCK NUMBER	NAME AND DESCRIPTION	LOCATING FUNCTION
E1	N16-A-22081-1033	Adapter, tube socket: 4 prong U-97/U phenolic body round shape 2 in. d by 1 ⁹ / ₁₆ in. dia 4 pin .640 in. spaced	4 Prong
E2	N16-A-22081-1034	Adapter, tube socket: 5 prong U-98/U phenolic body round shape 2 in. d by 1 ⁹ / ₁₆ in. dia 5 pin 3/4 in. spaced	5 Prong
E3	N16-A-22081-1035	Adapter, tube socket: 6 prong U-99/U phenolic body round shape 2 in. d by 1 ⁹ / ₁₆ in. dia 6 pin 3/4 in. spaced	6 Prong
E4	N16-A-22081-1036	Adapter, tube socket: 7 prong small U-100/U phenolic body round shape 2 in. d by 1 ⁹ / ₁₆ in. dia 7 pin small 3/4 in. spaced	7 Prong Small
E5	N16-A-22081-1037	Adapter, tube socket: 7 prong large U-101/U phenolic body round shape 2 in. d by 1 ³ / ₄ in. dia 7 pin large .855 in. spaced	7 Prong Large

TABLE 5-3. TABLE OF REPLACEABLE PARTS (Continued)

REFERENCE SYMBOL	STANDARD NAVY STOCK NUMBER	NAME AND DESCRIPTION	LOCATING FUNCTION
E6	N16-A-22081-1041	Adapter, tube socket: octal U-102/U phenolic body round shape 2 $\frac{1}{8}$ in. d by 1 $\frac{1}{16}$ in. dia 8 pin .687 in. spaced	Octal
E7	N16-A-22081-1040	Adapter, tube socket: loctal U-103/U phenolic body round shape 1 $\frac{15}{16}$ in. d by 1 $\frac{9}{16}$ in. dia 8 pin .687 in. spaced	Loctal
E8	N16-A-22081-1038	Adapter, tube socket: 7 prong U-104/U phenolic body round shape 1 $\frac{3}{4}$ in. d by 1 $\frac{5}{32}$ in. dia 9 pin miniature .468 in. spaced	7 Prong
E9	N16-A-22081-1039	Adapter, tube socket: 9 prong U-105/U phenolic body round shape 1 $\frac{3}{4}$ in. d by 1 $\frac{5}{32}$ in. dia 9 pin miniature .468 in. spaced	9 Prong
H3	N16-S-85901-1010	Straightener, duplex tube pin: plastic body rectangular shape 2 $\frac{7}{8}$ in. lg by 1 $\frac{3}{32}$ in. width by $\frac{5}{16}$ in. d mounts on two .152 in. dia holes 180 degrees apart on 1 $\frac{9}{32}$ in. radius	Permanently mounted in center of transit case

TABLE 5-4. CROSS REFERENCE PARTS LIST

NAVY TYPE	KEY SYMBOL	NAVY TYPE	KEY SYMBOL	SIGNAL CORPS STOCK NO.	KEY SYMBOL	SIGNAL CORPS STOCK NO.	KEY SYMBOL
U-97/U	E1	U-105/U	E9		E1		E9
U-98/U	E2	Straight-	H3		E2		H3
U-99/U	E3	ener,			E3		
U-100/U	E4	Duplex			E4		
U-101/U	E5	Tube Pin			E5		
U-102/U	E6				E6		
U-103/U	E7				E7		
U104/U	E8				E8		

TABLE 5-5. LIST OF MANUFACTURERS

ABBREVIATIONS	NAVY PREFIX	NAME	ADDRESS
ALMAC CORBIN	AHG	Almac Mfg. Corp. American Hardware Co.	El Monte, Calif. New Britain, Conn.
AMPLENOL CINCH	AMP CIN	American Phenolic Corp. Cinch Mfg. Co.	Chicago, Ill. Chicago, Ill.
I.E.H. G-C	GCE	Industrial Electronic General Cement Mfg. Co.	New York, N.Y. Rockford, Ill.
PALCO		Worcester Pressed Aluminm Corp.	Worcester, Mass.

D E P A R T M E N T O F T H E A R M Y T E C H N I C A L M A N U A L

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND
 GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND
 SPECIAL TOOLS LISTS (INCLUDING DEPOT MAINTENANCE
 REPAIR PARTS AND SPECIAL TOOLS)

TUBE SOCKET ADAPTER KIT MX-1258/U

FSN 6625-301-0815

Headquarters, Department of the Army, Washington, D.C.

23 April 1973

SMR CODE	FEDERAL STOCK NUMBER	REFERENCE NUMBER & MFR. CODE
P--O--	6625-643-1652	TUBE SOCKET ADAPTER U-97/U - E1 U97U (80058)
P--O--	6625-643-1650	TUBE SOCKET ADAPTER U-98/U E2 U98U (80058)
P--O--	6625-643-1644	TUBE SOCKET ADAPTER U-99/U E3 U99U (80058)
P--O--	6625-643-1642	TUBE SOCKET ADAPTER U-100/U E4 U100U (80058)
P--O--	6625-643-1639	TUBE SOCKET ADAPTER U-101/U E5 U101U (80058)
P--O--	6625-643-1653	TUBE SOCKET ADAPTER U-102/U E6 U102U (80058)
P--O--	6625-643-1649	TUBE SOCKET ADAPTER U-103/U E7 U103U (80058)
P--O--	6625-643-1641	TUBE SOCKET ADAPTER U-104/U E8 U104U (80058)
P--O--	6625-643-1640	TUBE SOCKET ADAPTER U-105/U E9 U105U (80058)