

# **SUPREME**

*Testing Instruments*

"SUPREME BY COMPARISON"

## **RADIO TESTING INSTRUMENTS**

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- TUBE TESTERS
- MULTIMETERS
- SET ANALYZERS - STATIC
- SIGNAL GENERATORS
- FREQUENCY MODULATORS
- CATHODE RAY OSCILLOSCOPES
- SET ANALYZERS - DYNAMIC
- ASSOCIATED TEST EQUIPMENT

**SUPREME INSTRUMENTS CORPORATION**  
**GREENWOOD - MISSISSIPPI - U. S. A.**

## FOREWORD

In the preparation of this tube booklet, we have endeavored to give the owners of this series of Supreme Tube Testers complete information for testing receiving tubes which are on the present market. Tubes appearing after the date indicated on the next page will be listed in supplement form until this book is revised. A blank page is provided at the end of the listings for recording or attaching the information supplied in the supplements.

The first two pages contain general tube testing information for this series which is of utmost importance. If you should require more detailed information such as line adjustment, we suggest that you see your regular instruction booklet. The alphabetical notes should not be disregarded as they refer to a particular condition which will affect the proper testing of the tube.

For tubes not appearing in the regular listing, turn to "Additional Tube Types" near the rear of the book and test as indicated by its equivalent type.

Contrary to the assertions of some radio servicing authorities, the modern emission type tube tester is still an essential part of a well equipped service laboratory. It provides a fast and accurate means of determining the static condition of the tube, and if rejected by an emission type tester, it is unfit for duty in a radio receiver or similar electronic equipment. This type of tester is used in production lines of leading tube manufacturers, and it will indicate more than 95% of the defective tubes which will be encountered among types for receiver replacements. These defects are filament continuity, emission, cathode leakage, loose or shorted elements, loose or unsoldered base connections, etc. The remaining defects which can not be disclosed by these checkers such as oscillator failure due to a critical circuit and a change in tube characteristics, distortion, or some special thermal intermittent trouble. These types of defects can be quickly and easily located by means of a dynamic analyzer such as the Supreme Model 560 Vedolyzer or 562 Audolyzer. It is a fortunate serviceman who has access both to a tube tester and analyzer in checking for a defect when a tube of this kind is under suspicion.

This booklet has been checked carefully against our tube list records and we will welcome and appreciate having our attention directed to any errors or omissions which may occur in this listing.

SERVICE DIVISION  
SUPREME INSTRUMENTS CORPORATION  
GREENWOOD, MISSISSIPPI, U.S.A.



TUBE TEST LISTING  
FOR SUPREME INSTRUMENTS  
MODELS 501 - 502 - 502-S

THIS LIST SUPERSEDES ALL PREVIOUS LISTS FOR THE ABOVE MODELS

ISSUED 4-1-40

Ask for supplements to 501 and 502 booklet dated 4-1-40 when inquiring regarding new tube listings.

**NOTICE:** Due to the number of new tubes issued in the last year, it is impossible to print these on tube cards to fit the lid of your tester. Thus, we have discontinued their use and all listings have, for some time, been issued in booklet form. New tube listings are available from the factory on application. If you desire the latest supplement, please so state and enclose 5¢ in stamps. If you want the complete tube list booklet, please so state and enclose 25¢ in stamps.

GENERAL OPERATING INSTRUCTIONS

Set Filament Volts Selector switch as per tube list column (F.V.S.) (See Footnote).

Set Circuit Selector as indicated in column (C.S.).

Set Quality Selector as indicated in column (Q.S.).

Set Filament Return Selector as indicated in column (F.R.S.).

All numbered toggle switches should be down. Insert tube in proper socket. (In instruments which have not been modernized use adapter listed in extreme right hand column. See Accessories-Parts for adapter prices). 6N5 switch should remain in the down position unless otherwise specified in the right hand column.

**LEAKAGE-SHORT test:** Throw each toggle switch up - then back down, one at a time. Neon glow will produce a continuous light under the following conditions:

- (A) Tube elements out of position or shorted.
- (B) Filament continuity when the switch or switches representing one side of the filament pin numbers is thrown up. (The other side of the filament is represented by the filament return selector).

**QUALITY TEST:** Throw only those switches up as indicated in the "Switches Up" column. Depress "Quality Test" switch and observe meter.

In such cases where two tests are listed, (such as a multi-purpose tube or full wave rectifier) both sectional tests should be made to determine the merit of the tube. Where three tests appear, the first two tests cover the triode and pentode section and the (dio) indicates the diode sectional test.

Special Notes are provided in extreme right hand column which refer to special instructions listed below.

If your instrument has been modernized, the octal adapter notation may be disregarded; otherwise, see accessories parts list.

#2- Tube List Booklet for 501, 502, 502-S.

NOTE: For modernized testers only:

<u>PANEL READINGS</u>	<u>ACTUAL VOLTAGES</u>
Blank (See Note J)-----	50
1.5-----	55
2.0-----	60
2.5-----	65
3.3-----	70
5.0-----	75
6.3-----	80
7.5-----	85
12.6-----	90
14.0-----	95
25.0-----	100
35.0-----	Line Voltage

CAUTION: The "HI-LO" switch should be returned to "LO" position when the test is completed. This oversight will cause severe damage to low voltage filaments if tubes are inserted before making proper settings.

ACCESSORIES-PARTS FOR 501 - 502 TESTERS

Modernization (501) - \$10.50. Write for special Modernization bulletin.  
Modernization (502) - \$11.00. Write for special Modernization bulletin.

Loctal adapter (our stock #5545) -	\$0.59
Bantam Jr. Adapter (our stock #5045)	\$0.59
Top Cap Connector (our stock #7051)	\$0.21
Tube List (Booklet Form Only)	\$0.25

(Prices quoted above are subject to change without notice.)

SPECIAL INSTRUCTIONS AND SYMBOLS USED IN THIS LIST

\* - Indicates Octal Tubes.

A - No. 5 shows short.

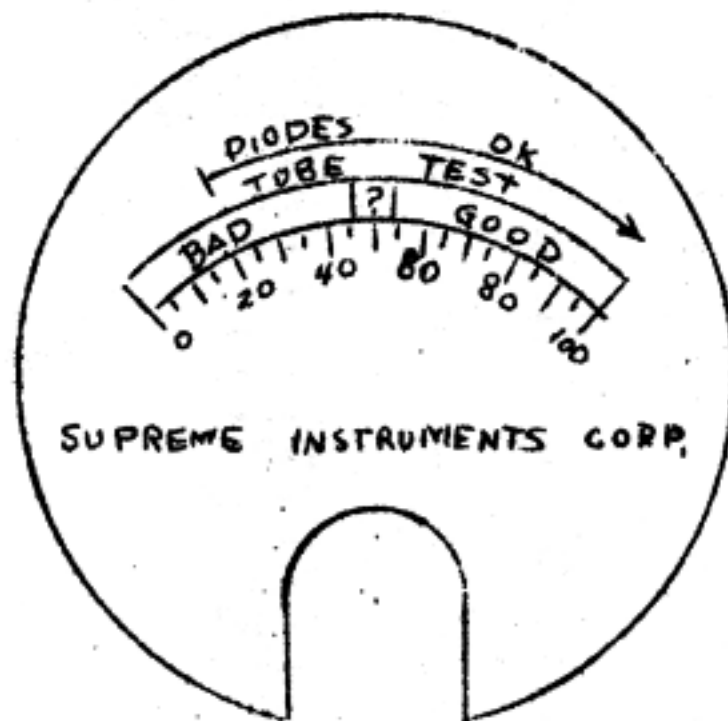
B - Tube checked for opening and closing of eye only.

C - Heater terminals on side of base -- connect these terminals by means of short leads to No. 1 and No. 5 holes in next socket.

D - Heater terminals at top of tube -- connect these terminals by means of short leads to No. 1 and No. 5 holes in next socket.

#3 - Tube List Booklet for 501, 502 and 502-S.

- E - Push No. 4 and No. 7 buttons simultaneously during leakage test, as (K) cathode is connected to both No. 4 and No. 7 tube base terminals.
- F - When making filament open test, neon bulb should light on both No. 2 and No. 3.
- HI - Throw "HI-LO" toggle switch to "HI" position. Return to "LO" position after test.
- J - Filament volts selector should be placed in the blank position between 30 and 1.5 positions. (DIO) Tubes reading on this test above 20% scale deflection (2 volts on 7 volts scale) are good.
- M - Numbers 2 and 6 show short.
- 6N5 SW. UP - Throw "6E5, 6G5-6N5" switch to "6E5, 6G5" position.
- (S)- The letter "S" enclosed in paranthesis appearing adjacent to the tube type indicates Foreign types with 14 volt filaments. DO NOT CONFUSE WITH SIMILAR AMERICAN TYPES.



## #4 - Tube List Booklet for 501, 502 and 502-S

TUBE TYPE	FVS	CS	QS	FRS	SWITCHES UP	SPECIAL INSTRUCTIONS (See Page #2 and #3)
00A	5.0	D	46	1	2-3	
01A	5.0	D	59	1	2-3	
01B	5.0	D	22	1	2-3	
01C	5.0	E	11	2	2-3	
0A4*	-	F	90	1	5	
0Z3	-	F	40	1	3	
0Z3*	-	F	40	1	2	
0Z4*	-	F	45	1	3	
0Z4*	-	F	45	1	5	
1A4	2.0	E	14	1	2-3-TC	
1A5*	1.5	D	44	7	3-4-5	
1A6	2.0	E	12	1	2-3-4-5-TC	
1A7*	1.5	E	12	2	3-4-5-6-TC	
1B4	2.0	E	12	1	2-3-TC	
1B5	2.0	E	10	1	2-5	
1B5 (Dio)	2.0	B	25	1	3-4	
1B7G*	1.5	C	70	2	3-4-5-6-TC	
1C5*	1.5	D	10	2	3-4-5	
1C6	2.0	D	18	1	2-3-4-5-TC	
1C7*	2.0	D	25	2	3-4-5-6-TC	
1D5*	2.0	E	12	2	3-4-TC	
1D7*	2.0	E	14	2	3-4-5-6-TC	
1D8*	1.5	B	47	2	3-4-6-8	
1D8*	1.5	B	12	2	3-4-6-TC	
1D8*(Dio)	1.5	B	8	2	3-4-5-6	
1E4*	1.5	E	10	2	3-5	
1E5*	2.0	E	12	2	3-4-TC	
1E7*	2.0	D	9	2	3-4-8	
1E7*	2.0	D	9	2	5-6	
1F4	2.0	D	10	1	2-3-4	
1F5*	2.0	D	12	2	3-4-5	
1F6	2.0	E	12	1	2-3-TC	
1F6 (Dio)	2.0	B	73	1	4-5	
1F7*	2.0	E	30	2	3-6-TC	
1F7* (Dio)	2.0	B	50	2	4-5	
1G4*	1.5	D	13	2	3-5	
1G5*	2.0	E	18	2	3-4-5	
1G6*	1.5	E	9	2	3-4	
1G6*	1.5	E	9	2	5-6	
1H4*	2.0	E	10	2	3-5	
1H5*	1.5	B	10	2	3-4-TC	
1H4* (Dio)	1.5	B	29	2	5	
1H6*	2.0	E	19	2	3-6	
1H6* (Dio)	2.0	B	59	2	4-5	
1J5*	2.0	E	11	2	3-4-5	
1J6*	2.0	D	40	2	3-4	
1J6*	2.0	D	40	2	5-6	
1LA4	1.5	B	30	1	2-3-6	Use Loctal adapter
1LA6	1.5	B	10	1	2-3-4-5-6	Use Loctal adapter
1LB4	1.5	B	9	1	2-3-6	Use Loctal adapter



#5 - Tube List Booklet for 501, 502 and 502-S

TUBE TYPE	FVS	CS	QS	FRS	SWITCHES UP	SPECIAL INSTRUCTIONS See Page #2 and #3
1LH4	1.5	D	20	1	2-6	Use Loctal adapter
1LH4 (Dio)	1.5	B	60	1	4	Use Loctal Adapter
1LN5	1.5	D	15	1	2-3-4-6	Use Loctal adapter
1N5*	1.5	B	8	2	3-4-TC	
1N6	1.5	D	26	2	4-5-6	
1P5*	1.5	B	9	2	3-4-TC	
1Q5*	1.5	B	55	2	3-4-5	
1R5	1.5	C	1000	7	3-4-6	Use Bantam Adapter
1S4	1.5	C	75	7	2-3-4-6	Use Bantam Adapter
1S5 (~1.5)	1.5	E	15	7	4-5-6	Use Bantam Adapter
1S5 (Dio)	1.5	B	40	7	3	Use Bantam Adapter
1T4	1.5	C	82	7	2-3-6	Use Bantam Adapter
1T5*	1.5	D	12	2	3-4-5	
1V	6.3	C	22	1	2	
2A3	2.5	C	16	1	2-3	
2A5	2.5	CC	43	1	2-3-4	
2A6	2.5	C	48	1	2-TC	
2A6 (Dio)	2.5	E	40	1	3-4	
2A6*	2.5	C	67	2	3-TC	
2A6* (Dio)	2.5	E	17	2	4-5	
2A7	2.5	C	60	1	2-3-4-5-TC	
2B6	2.5	B	7	1	2-4	#5 shows short
2B6	2.5	B	7	1	3-4	
2B7	2.5	D	10	1	2-3-TC	
2B7 (Dio)	2.5	D	14	1	4-5	
2E5	2.5	G	46	1	2-4	6N5 Switch up
2S	2.5	B	20	1	2	
2S	2.5	B	20	1	3	
2W3*	2.5	D	19	2	4	
2X2	2.5	G	88	1	TC	
2X3*	2.5	D	22	8	4	
2Y4	2.5	C	61	1	2	
2Y4	2.5	C	83	1	3	
2Z2	2.5	E	11	1	2	
3A8*	1.5	B	12	1	5-6	
3A8*	1.5	B	8	1	3-8-TC	
3C5	1.5	C	35	8	4-5	
3Q5	1.5	D	6	8	3-4-5	
4A6*	2.0	D	43	8	3-4	
4A6*	2.0	D	43	8	4-5	
5T4*	5.0	C	44	2	4	
5T4*	5.0	C	32	2	6	
5U4*	5.0	C	70	2	4	
5U4*	5.0	C	49	2	6	
5V4*	5.0	F	30	2	4	
5V4*	5.0	F	30	2	6	
5W4*	5.0	D	44	2	4	
5W4*	5.0	D	28	2	6	
5X3	5.0	D	22	1	2	
5X3	5.0	D	22	1	3	

#6-Tube List Booklet for 501, 502 and 502-S

TUBE LIST	FVS	CS	QS	FRS	SWITCHES UP	SPECIAL INSTRUCTIONS See Page #2 and #3
5X4*	5.0	C	54	7	3	
5X4*	5.0	CC	71	7	5	
5Y3*	5.0	D	41	2	4	
5Y3*	5.0	D	19	2	6	
5Y4*	5.0	D	59	7	3	
5Y4*	5.0	D	86	7	5	
5Z3	5.0	C	78	1	2	
5Z3	5.0	CC	78	1	3	
5Z4*	5.0	F	28	2	4	
5Z4*	5.0	F	28	2	6	
6A3	6.3	C	16	1	2-3	
6A4	6.3	C	90	1	2-3-4	
6A5*	6.3	C	16	8	3-5	
6A6	6.3	C	44	1	2-3	
6A6	6.3	C	44	1	5-6	
6A7	6.3	C	45	1	2-3-4-5-TC	
6A7M*	6.3	C	45	2	4-5-6-TC	
6A8*	6.3	C	55	2	3-4-5-6-TC	
6AB5	6.3	F	100	1	3-4	
6AB6*	6.3	D	22	2	3-4-5	
6AC5*	6.3	C	30	2	3-5	
6AC6*	6.3	C	60	2	3-4-5	
6AD5*	6.3	C	20	2	3-5	
6AD6*	6.3	F	100	2	3-5	Test for winking eye
6AD6*	6.3	F	100	2	4-5	Test for winking eye
6AE5*	6.3	C	15	2	3-5	
6AE6*	6.3	CC	61	2	3-4-5	
6AF5*	6.3	C	22	2	3-5	
6AF6*	6.3	F	100	2	3-5	Test for winking eye
6AF6*	6.3	F	100	2	4-5	Test for winking eye
6AG7*	6.3	A	36	2	4-6	
6AL6	6.3	CC	12	2	4-5-TC	
6B4*	6.3	CC	10	2	3-5	
6B5	6.3	D	19	1	2-3-4	
6B6	6.3	C	55	2	3-TC	
6B6	6.3	CC	100	2	4-5	
6B6*	6.3	CC	20	2	3-TC	
6B6* (D10)	6.3	CC	32	2	4-5	
6B7	6.3	D	15	1	2-3-TC	
6B7 (D10)	6.3	E	34	1	4-5	
6B8*	6.3	D	15	2	3-6-TC	
6B8* (D10)	6.3	E	28	2	4-5	
6C5*	6.3	CC	67	2	3-5	
6C6	6.3	CC	60	1	2-3-4-TC	
6C7	6.3	C	64	1	2-3-TC	
6C7 (D10)	6.3	B	20	1	4-5	
6C8*	6.3	C	45	2	3-TC	
6C8*	6.3	CC	49	2	5-6	
6D5*	6.3	C	64	2	3-5	
6D6	6.3	C	56	1	2-3-4-TC	



#7-Tube List Booklet for 501, 502 and 502-S

TUBE TYPE	FVS	CS	QS	FRS	SWITCHES UP	SPECIAL INSTRUCTIONS See Page #2 and #3
6D7	6.3	C	51	1	2-3-4-5-TC	
6D8*	6.3	C	84	2	3-4-5-6-TC	
6E5	6.3	G	46	1	2-4	6N5 Switch Up.
6E6	6.3	D	11	1	2-3	
6E6	6.3	D	11	1	5-6	
6E7	6.3	C	57	1	2-3-4-5-TC	
6F5*	6.3	C	32	2	4-TC	
6F6*	6.3	C	29	2	3-4-5	
6F7	6.3	E	35	1	4-5	
6F7	6.3	C	07	1	2-3-TC	
6F7M*	6.3	B	10	2	3-4-TC	
6F7M*	6.3	B	22	2	5-6	
6F8*	6.3	B	5	2	5-6	
6F8*	6.3	B	5	2	3-TC	
6G5	6.3	G	46	1	2-4	6N5 Switch Up.
6G6*	6.3	C	28	2	3-4-5	
6G7S	6.3	C	96	1	2-TC	
6G7S	6.3	C	69	1	4	
6G7S	6.3	C	58	1	6	
6H4* (Dio)	6.3	B	10	2	4	
6H6* (Dio)	6.3	A	100	2	3	
6H6* (Dio)	6.3	A	100	2	5	
6H7M*	6.3	B	23	2	6-TC	
6H7M*	6.3	C	46	2	3-4-5	
6H7S	6.3	C	83	1	2-3-4	
6H7S	6.3	E	25	1	5-TC	
6J5*	6.3	C	10	2	3-5	
6J7*	6.3	C	52	2	3-4-5-TC	
6J8*	6.3	C	62	2	3-4-TC	
6J8*	6.3	B	10	2	5-6	
6K5*	6.3	C	38	2	3-TC	
6K6*	6.3	C	70	2	3-4-5	
6K7*	6.3	C	60	2	3-4-5-TC	
6K8*	6.3	B	50	2	3-4-TC	
6K8*	6.3	A	80	2	5	
6L5*	6.3	C	35	2	3-4	
6L6*	6.3	C	10	2	3-4-5	
6L7*	6.3	C	28	2	3-4-5-TC	
6N5	6.3	G	46	1	2-4	
6N6*	6.3	D	15	2	3-4-5	
6N7*	6.3	C	50	2	3-4	
6N7*	6.3	C	50	2	5-6	
6P5*	6.3	D	9	2	3-5	
6P7*	6.3	D	21	2	4-5-TC	
6P7*	6.3	E	32	2	6-7	
6Q6*	6.3	C	62	2	3-TC	
6Q6* (Dio)	6.3	B	78	2	5	
6Q7*	6.3	C	8	2	3-TC	
6Q7* (Dio)	6.3	E	14	2	4-5	
6R6*	6.3	C	65	2	3-5-TC	

#8 - Tube List Booklet for 501, 502 and 502-S

Tube LIST	FVS	CS	QS	FRS	SWITCHES UP	SPECIAL INSTRUCTIONS See Page #2 and #3
6R7*	6.3	C	61	2	3-TC	
6R7* (Dio)	6.3	B	15	2	4-5	
6S7*	6.3	C	36	2	3-4-5-TC	
6SA7*	6.3	C	55	2	3-4-5-8	
6SC7*	6.3	C	67	7	2-3	
6SC7*	6.3	C	67	7	4-5	
6SF5*	6.3	C	32	8	3-5	
6SJ7*	6.3	C	52	2	4-8	
6SK7*	6.3	C	73	2	4-8	
6SQ7*	6.3	C	58	8	2-6	
6SQ7* (Dio)	6.3	E	26	8	4-5	
6T5	6.3	G	51	1	2-4	6N5 Switch Up.
6T7*	6.3	C	40	2	3-TC	
6T7* (Dio)	6.3	H	42	2	4-5	
6U5	6.3	F	40	1	2-3-4	
6U7*	6.3	C	44	2	3-4-5-TC	
6V6*	6.3	C	16	2	3-4-5	
6V7*	6.3	C	91	2	3-TC	
6V7* (Dio)	6.3	B	18	2	4-5	
6W5*	6.3	B	5	2	3	
6W5*	6.3	B	5	2	5	
6W6*	6.3	A	49	2	3-4-5	
6W7*	6.3	C	52	2	3-4-5-TC	
6X5*	6.3	C	36	2	3	
6X5*	6.3	C	41	2	5	
6X6*	6.3	F	100	2	4	
6Y5	6.3	C	25	1	3	
6Y5	6.3	C	25	1	5	
6Y5V	6.3	C	32	1	3	
6Y5V	6.3	C	32	1	5	
6Y6*	6.3	A	60	2	3-4-5	
6Y7*	6.3	C	50	2	3-4	
6Y7*	6.3	C	50	2	5-6	
6Z4	6.3	F	31	1	2	
6Z4	6.3	F	31	1	3	
6Z5	6.3	F	32	1	3	
6Z5	6.3	F	32	1	5	
6ZY5*	6.3	D	10	2	3	
6ZY5*	6.3	D	10	2	5	
6Z6*	6.3	C	31	2	3	
6Z6*	6.3	C	31	2	5	
6Z7*	6.3	C	63	2	3-4	
6Z7*	6.3	C	56	2	5-6	
7A4	6.3	G	30	1	2-6	Use loctal adapter
7A5	6.3	A	52	7	2-5	Use loctal adapter
7A6	6.3	D	15	1	3	Use loctal adapter
7A6	6.3	D	15	1	6	Use loctal adapter
7A7	6.3	B	44	8	3-5	Use loctal adapter
7A8	6.3	C	30	8	3-4-5-6	Use loctal adapters
7B5	6.3	C	35	1	2-3-6	Use loctal adapter



#9

## - Tube List Booklet for 501, 502 and 502-S

Tube List	FVS	CS	QS	FRS	Switches Up	SPECIAL INSTRUCTIONS See Page #2 and #3
7B6	6.3	C	14	1	2-3-5-6	Use loctal adapter(E)
7B6 (Dio)	6.3	E	16	1	5-6	
7B7	6.3	C	40	1	2-3-4-6	Use loctal adapter
7B8	6.3	C	21	1	2-3-4-5-6	Use loctal adapter
7C5	6.3	C	21	1	3-6	Use loctal adapter
7C6	6.3	C	82	1	2-3	Use loctal adapter(E)
7C6 (Dio)	6.3	B	14	1	5-6	
7C7	6.3	C	53	1	3-4-6	Use loctal adapter
7E6	6.3	C	22	1	2-3	Use loctal adapter(E)
7E6 (Dio)	6.3	B	14	1	5-6	
7E7	7.5	C	80	1	2-5-6	Use loctal adapter
7E7 (Dio)	7.5	B	20	1	3-4	
7F7	7.5	C	30	1	3-4	Use loctal adapter
7F7	7.5	C	30	1	5-6	
7J7	7.5	C	4	1	3-4-6	Use loctal adapter
7Q7	7.5	C	5	1	3-4	Use loctal adapter
7Y4	6.3	B	5	8	3	Use loctal adapter
7Y4	6.3	B	5	8	6	
10	7.5	F	39	1	2-3	
10S	7.5	F	39	1	3-TC	
12A	5.0	C	67	1	2-3	
12A5	6.3	C	65	6	2-3-4	
12A6*	12.6	C	54	2	1-4-5	
12A7	12.6	C	75	1	2-3-TC	
12A7	12.6	F	30	1	5	
12A8*	12.6	C	27	2	3-4-5-6-TC	
12B7	12.6	C	45	1	3-4-5-6	Use loctal adapter
12B8*	12.6	C	15	2	3-4-TC	
12B8*	12.6	C	8	2	5-8	
12C8*	12.6	D	9	2	3-4-5-6-TC	
12C8* (Dio)	12.6	B	23	2	4-5	
12E5*	12.6	C	62	2	3-5	
12F5*	12.6	C	20	2	4-TC	
12J5	12.6	C	30	2	3-5	
12J7*	12.6	C	58	2	3-4-2-TC	
12K7*	12.6	C	65	2	3-4-5-TC	
12K8*	12.6	C	80	2	3-4-TC	
12K8*	12.6	C	90	2	5-6	
12Q7*	12.6	C	30	2	3-4-5-TC	
12Q7*(Dio)	12.6	B	14	2	4-5	
12SA7*	12.6	B	4	2	3-4-5-8	
12SC7*	12.6	C	70	7	2-3	
12SC7*	12.6	C	61	7	4-5	
12SF5*	12.6	C	16	7	3-5	
12SJ7*	12.6	C	17	2	3-4-6-8	
12SK7*	12.6	C	29	2	3-4-6-8	
12SQ7*	12.6	C	50	7	2-4-5-6	
12SR7*	12.6	C	60	7	2-6	
12SR7*(Dio)	12.6	C	30	7	4-5	
12Z3	12.6	F	30	1	2	
12Z5	6.3	F	30	4	2	
12Z5	6.3	F	30	4	6	

#10 - Tube List Booklet for 501, 502 and 502-S

TUBE TYPE	FVS	CS	QS	FRS	SWITCHES UP	SPECIAL INSTRUCTIONS See Page #2 and #3
14	14.0	C	89	1	2-3-TC	
15	2.0	E	15	1	2-3-TC	
17	14.0	D	11	1	2-3	
18	14.0	C	45	1	2-3-4	
19	2.0	D	20	1	3-4	
19	2.0	D	20	1	4-5	
20	3.3	E	31	1	2-3	
22	3.3	B	25	1	2-3-TC	
22(S)	14.0	B	6	1	2-3-TC	
24*	2.5	D	9	2	3-5-TC	
24A	2.5	C	70	1	2-3-TC	
25A6*	25.0	C	15	2	3-4-5	
25A7*	25.0	C	59	2	3-4-5	
25A7*	25.0	A	58	2	6	
25AC5*	25.0	C	45	2	3-5	
25B5	25.0	C	79	1	2-3-4	
25B6*	25.0	A	59	2	3-4-5	
25B8*	25.0	C	30	2	5-8	
25B8*	25.0	C	30	2	3-4-TC	
25C6*	25.0	F	35	2	4-5	
25D8*	25.0	B	5	2	5-6	
25D8*	25.0	B	5	2	3-4-TC	
25D8*(Dio)	25.0	B	15	2	8	
25L6*	25.0	A	44	2	3-4-5	
25N6*	25.0	C	77	2	3-4-5	
25X6*	25.0	C	0	2	3	
25X6*	25.0	C	0	2	5	
25Y4*	25.0	F	35	2	5	
25Y5	25.0	F	33	1	2	
25Y5	25.0	F	33	1	5	
25Z3	25.0	F	35	1	2	
25Z4*	25.0	F	30	2	5	
25Z5	25.0	F	35	1	2	
25Z5	25.0	F	35	1	5	
25Z5*	25.0	A	52	2	3	
25Z5*	25.0	A	52	2	5	
25Z6*	25.0	A	85	2	3	
25Z6*	25.0	A	85	2	5	
26	1.5	D	31	1	2-3	
26S	14.0	B	77	1	2-3	
27	2.5	D	10	1	2-3	
27*	2.5	C	89	2	3-5	
29	2.5	D	8	1	2-3-4	
30	2.0	D	71	1	2-3	
30(S)	14.0	B	7	1	2-3	
30X	2.0	E	14	1	3-TC	
31	2.0	D	24	1	2-3	
32	2.0	D	71	1	3-2-TC	
32L7*	35.0	A	70	2	3-4-5	
32L7*	35.0	A	45	2	6	
32(S)	14.0	B	6	1	2-3	



## #11 - Tube Basket for 501, 502 and 502-S

TUBETYPE	FVS	CS	QS	FRS	SWITCHES UP	SPECIAL INSTRUCTIONS See page #2 and #3
33	2.0	DD	10	1	2-3-4	
34	2.0	D	38	1	2-3-TC	
34M*	2.0	D	38	2	3-4-TC	
35	2.5	C	83	1	2-3-TC	
35A5	35.0	C	0	1	2-3-6	Use Loctal adapter
35L6*	35.0	C	0	2	3-4-5	
35Z3	35.0	F	35	1	2	Use Loctal adapter
35Z4*	35.0	F	33	2	5	
35Z8*	35.0	A	37	7	5	
36	6.3	C	68	1	2-3-TC	
37	6.3	D	9	1	2-3	
38	6.3	D	14	1	2-3-TC	
39	6.3	C	94	1	2-3-TC	
40	5.0	EF	12	1	2-3	
40S	14.0	D	7	1	2-3	
40Z5*	30.0	A	37	7	5	
41	6.3	C	54	1	2-3-4	
41M*	6.3	C	68	2	3-4-5	
42	6.3	C	54	1	2-3-4	
43	25.0	C	7	1	2-3-4	
43*	25.0	C	9	2	3-4-5	
45	2.3	D	11	1	2-3	
45Z5*	30.0	C	25	7	5	
46	2.5	C	75	1	2-3-4	
47	2.5	C	69	1	2-3-4	
48	30.0	C	14	1	2-3-4	
48(S)	14.0	D	9	1	2-3	
49	2.0	C	84	1	2-3-4	
50	7.5	D	43	1	2-3	
50C6*	50.0	A	45	2	3-4-5	See footnote J
50L6*	50.0	AA	48	2	3-4-5	See footnote J
50Y6*	50.0	A	65	2	3	See footnote J
50Z7*	50.0	C	0	2	3	See footnote J
51*	2.5	D	9	2	3-5-TC	
52	6.3	C	53	1	2-3-4	
53	2.5	C	55	1	2-3	
53	2.5	C	55	1	5-6	
55	2.5	D	12	1	2-TC	
55 (D1o)	2.5	B	34	1	3-4	
55*	2.5	D	8	2	3-4-5-TC	
55* (D1o)	2.5	E	17	2	4-5	
56	2.5	C	66	1	2-3	
56*	2.5	C	66	2	3-5	
57	2.5	C	50	1	2-3-4-TC	
57*	2.5	D	52	2	3-4-5-TC	
58	2.5	C	31	1	2-3-4-TC	
58*	2.5	D	7	2	3-4-5-TC	
59	2.5	C	61	1	2-3-4-5	
59B	2.5	C	64	1	2-3-4-5	
50Y6*	50.0	A	65	2	5	See footnote J

#12 - Tube Booklet for 501, 502 and 502-S

TUBE TYPE	FVS	CS	QS	FRS	SWITCHES UP	SPECIAL INSTRUCTIONS See Page #2 and #3
69	6.3	C	86	1	2-3-4	
70	6.3	E	16	1	2-3-4	
70A7 HI*	3.3	C	33	2	3-4-5	
70L7 HI*	3.3	A	40	2	8	
70L7 HI*	3.3	A	46	2	3-4-5	
71A	5.0	C	84	1	2-3	
75	6.3	C	40	1	2-TC	
75 (Dio)	6.3	B	14	1	3-4	
75*	6.3	C	41	2	3-TC	
75* (Dio)	6.3	E	16	2	4-5	
76	6.3	C	63	1	2-3	
77	6.3	C	65	1	2-3-4-TC	
77*	6.3	C	72	2	3-4-5-TC	
77M*	6.3	C	80	2	3-4-5-TC	
77HG	2.5	C	30	1	3	
78	6.3	C	74	1	2-3-4-TC	
78*	6.3	D	10	2	3-4-5-TC	
79	6.3	C	53	1	2-3	
79	6.3	C	53	1	5-TC	
80	5.0	D	53	1	2	
80	5.0	D	33	1	3	
80*	5.0	E	8	2	6	
80*	5.0	E	8	2	4	
81	7.5	F	43	1	2	
82	2.5	F <sub>F</sub>	32	1	2	
82	2.5	F <sub>F</sub>	32	1	3	
83	5.0	F	33	1	2	
83	5.0	F	33	1	3	
83V	5.0	F	31	1	2	
83V	5.0	F	31	1	3	
84	6.3	F	31	1	2	
85	6.3	C	40	1	2-TC	
85 (Dio)	6.3	E	15	1	3-4	
85*	6.3	D	11	2	3-TC	
85* (Dio)	6.3	E	14	2	4-5	
85AS (Dio)	6.3	E	15	1	3-4	
86	6.3	C	63	1	2-3	
86M*	6.3	C	67	2	3-5	
87S	6.3	C	37	1	2-3-4-TC	
88M*	6.3	C	54	2	3-4-5-TC	
88S	6.3	C	46	1	2-3-4-TC	
89	6.3	C	50	1	2-3-4-TC	
99	3.3	E	21	1	2-3	
101F	3.3	D	21	1	2-3	
117L7* HI	2.0	C	55	2	6	
117L7* HI	2.0	C	55	2	3-4-5	
117Z6* HI	2.0	A	52	1	3	
117Z6* HI	2.0	A	52	1	5	
121B	5.0	E	14	1	2-3	
181	3.3	D	15	1	2-3	See footnote C



## #13 - Tube Booklet for Models 501, 502 and 502-S

TUBE TYPE	FVS	CS	QS	FRS	SWITCHES UP	SPECIAL INSTRUCTIONS See Page #2 and #3
182B	5.0	C	80	1	2-3	
183	5.0	C	93	1	2-3	
205-D	5.0	D	47	1	2-3	
257	5.0	D	10	1	2-3-4	
274A	5.0	D	20	1	2-3	
401	3.3	D	14	1	2-3	See footnote D
403	3.3	C	81	1	2-3	
484	3.3	C	41	1	2-3	
485	3.3	C	57	1	2-3	
486	3.3	E	14	1	2-3	
802	6.3	C	45	1	3-4-5-TC	
807	6.3	C	72	1	2-3-TC	
841	7.5	E	11	1	2-3	
842	7.5	E	15	1	2-3	
864	1.5	B	9	1	2-3	
950	2.0	D	12	1	2-3-4	
1221	6.3	C	50	1	3-4-TC	
1223*	6.3	C	70	2	3-4-TC	
1231	6.3	B	5	8	3-6	Use Loctal adapter
1232	6.3	A	41	1	3-6	Use Loctal adapter
1612*	6.3	C	15	2	3-4-5-TC	
1851*	6.3	A	40	2	4-TC	
1852*	6.3	A	25	2	3-4-6-8	
1853*	6.3	A	75	2	3-4-6-8	
7000*	6.3	C	50	2	3-4-TC	
7700	6.3	C	50	1	4-TC	
BH	-	F	96	3	1-4	
BR	-	F	63	5	4	
GA	5.0	D	8	1	2-3-4	
KR22	6.3	C	42	1	2-3-4	
PA	6.3	C	72	1	2-3-TC	
PZH	2.5	C	26	1	2-3-4-5	
R20	2.5	D	11	1	2-3	
R30	2.5	E	9	1	2-3	
R32	2.5	D	16	1	2-3	
R100	5.0	E	12	1	2	
R200	5.0	E	10	1	2	
RK24	2.0	D	19	1	2-3	
RK33	6.3	C	45	1	3-TC	
RK33	6.3	C	45	1	4-5	
WUND-A	2.5	D	24	1	2-3-4	
WUND-AB	6.3	C	86	1	2-3-4	
WX12	1.5	D	100	1	2-3	

SPECIAL MODERNIZATION BULLETIN

We are glad to advise that we can offer a moderate priced conversion program, whereby we can make your instrument capable of testing most of the present day types. The changes which will be made in your instrument will consist of revising the present transformer for the high filament potentials and supplying the adapters for the loctal and miniature base. The following prices for this type of service are strictly cash and do not include the transportation charges. Transportation must be borne by the owner and should be returned to the factory by EXPRESS prepaid.

SUPREME 504's without the high voltage filament supply may be modernized for \$10.45, the exact difference between the original and the present net prices. Other SUPREME models on which modernization programs are available and their costs follow:

Model 503(without High Voltage filament supply--\$10.45	
Models 501,505-----	10.50
Models 500,502, 502S-----	11.00
Models 400, 594--(See Note)-----	11.50
Models 506-C, 506-P-----	12.00
Model 585-----	13.00

(Models 35, 85, 85-P, 85-PL, Standard Diagonometer and all other Supreme Models cannot be modernized.)

Models 89-S, 89-C-----	(See Notes)-----	\$11.00
Models 89-D, 89-DL-----		11.50
Model 385-----		12.50

The above mentioned prices are for the conversion only and if other parts are needed, they will be charged for at the regular net prices.

NOTE: For testers which do not contain the Double floating filament return selector system and special loads, the conversion will have certain limitations. In order to correct these handicaps mentioned below, it would necessitate circuit changes which would not prove to be economical or practical.

Tubes such as Ionic heated cathodes, rectifiers, gaseous discharge tubes and tuning eye indicators cannot be tested on these units after they have been modernized. This includes such types as the OZ3, OZ4, BA, BH, 2E5, 6E5, etc. Multi-section tests are omitted also.

If your requirements are such that you do not believe the conversion will completely solve your tube testing problem, we suggest that you consider the purchase of a more modern tester.



## RESISTANCE TUBES (BALLAST)

The following Resistance (ballast) tubes are listed for your convenience so that you will not confuse them with regular receiving types of tubes. Resistance tubes do not require a quality, short or leakage test as they are merely enclosed resistors which can be continuity tested with an ohmmeter to ascertain whether they are "Good" or "Bad." In other words, resistance tubes resemble ordinary light bulbs which should either light or be replaced.

It will be noted that certain resistance tubes carry the same type number as receiving type tubes which, while confusing, is apparently unavoidable.

1A1	45W	140KC	250KC	FL49C	L36B	M49B
1B1	46A1	140LB	250L4	BL55C	L36D	M49C
1C1	46A1S	140LC	250L8	K22C	L36DJ	M52H
1D1	46B1	140L4	250M4	K22E	L40E	M55B
1E1	46B1S	140L8	250M8	K23C	L40S2	M55C
1F1	49A	140L44	250R	K36A	L42B	M55D
1G1	49A1	140M4	250R4	K36B	L42BS	M55H
1K1	49A2	140M8	250R8	K36C	L42BX	M74B
1R1G	49B2	140R	270L4	K38B2	L42C	M74C
1T1G	50	140R4	270L8	K40X	L42CJ	M80B
1Y1	50AB	140R8	270M4	K40Y	L42D	M80C
1Z1	50A2	140R44	270M8	K42B	L42DJ	W40655
2	50A2MG	164A	270R	K42C	L42DSX	W42520
2LR-212	50B2	165KB	270R4	K42D	L42DX	W43357
2UR-215	50B2MG	165KC	270R8	K42E	L49-5.5C	W43506
2UR-224	50MG	165L4	878R48	K49B	L49-5.5E	X780 275
3	50W	165L8	1915	K49C	L49B	X787235
3.25	50X3	165L44	3326	K49D	L49BX	185R8
3CR-241	50X3T	165LB	3334A	K49E	L49C	K55CP
3ER-248	50X300	165LC	3613	K49X	L49CJ	K67B
3MR-253	55A	165M4	8593	K49Y	L49D	K80C
4	55A1	165M8	8597	K52H	L49DJ	K90F
5	55A2	165R	8600	K55A	L49E	L36C
5B	55B2	165R4	8601	K55B	L49S3	
6	60R30	165R8	8663	K55C	L55-5.5E	
6.125	50R30G	165R44	8664	K55CPR	L55B	
6.126	64.23	185A	81,963	K55D	L55C	
6.128	69.2033	185KB	BK42D	K55E	L55CP	
6.129	69.2037	185KC	BK49D	K55F	L55CPR	
6.130	74A	185L4	BK74B	K55G	L55D	
6B	80A	185L8	BK74C	K55H	L55S1	
7	85-L-75CC	185L44	BL42D	K55J	L55S2	
8	90A	185LB	BK80B	K74B	L55S3	
9	92A	185LC	BL80C	K74C	L75CC	
10.610	100.37	185M4	BM36C	K75B	L75-C.C	
32	100.38	185M8	BM42C	K78B	L80B	
36A	115.14	185R	BM49B	K79B	L80C	
40	115.17	185R4	BM49C	K80A	L100D	
40A2	115.17S	185R44	BM55	K80B	M36B	
40B2	115.18	245A	BM55B	K87B	M36C	
40W	115.19	245KB	BM80B	K90B	M42B	
40X300	115.20	245KC	BM80C	K90C	M42C	
42A	115.22	250A	C9266	K92B	M42D	
42A1	140A	250KB	EK249	K95B	M42H	
	140KB					

ADDITIONAL TUBE TYPES

Under this listing will be found numerous tube types which may or may not be directly replaceable by other types, but have the same base connections and tube test listing. If you do not find a tube listed under the regular listing, look in the first column of those given below. When you find your tube type, look in the second column (under "SEE") and refer to this type in the regular tube listing for tubes tests.

For example, you desire to test a 14Z3. Looking under the "TUBE TYPE" column you find "14Z3". Opposite this type, in the "SEE" column, you find "12Z3". Refer to 12Z3 under the regular tube listing for tube tests on the 14Z3.

TUBE TYPE	SEE	TUBE TYPE	SEE	TUBE TYPE	SEE	TUBE TYPE	SEE	TUBE TYPE	SEE
00	00A	2G5	2E5	6F7M	6F7*	6V7G	6V7	25B6G	25B6
01	01A	4S	2S	6F8G	6F8	6W6GT	6W6	25L6G	25L6
01AA	01B	5V4G	5V4	6G6G	6G6	6W7G	6W7	25L6GT	25L6
1	1V	5W4G	5W4	6H6G	6H6	6X5G	6X5	25X6GT	25X6
1A4P	1A4	5X4G	5X4	6H6MG	6H6	6X5MG	6X5	25Z5MG	25Z5
1A4T	1A4	5Y3G	5Y3	6H6GT	6H6	6Y6G	6Y6	25Z6G	25Z6
1A6S	1A6	5Y4G	5Y4	6J5G	6J5	6X6GT	6X6	25Z6GT	25Z6
1B4P	1B4	5Z4G	5Z4	6J5GT	6J5	6X7G	6X7	27HM	56
1B4T	1B4	5Z4MG	5Z4	6J7G	6J7	6Y5G	6Y5	27S	27
1C5G	1C5	6A7M	6A8	6J7GT	6J7	6Y6G-	6Y6	32L7GT	32L7
1C6S	1C6	6A7S	6A7	6J7MG	6J7	6Y7G	6Y7	33S	33
1C7G	1C7	6A8G	6A8	6K5G	6K5	6Z3	1V	34M	34*
1D5G	1D5	6A8GT	6A8	6K6G	6K6	6ZY5G	6ZY5	34S	34
1D5GP	1D5	6A8MG	6A8	6K6GT	6K6	6Z7G	6Z7	35S	35
1D5GT	1D5	6AB5	6N5	6K7G	6K7	7A7LM	7A7	35*	51
1D7G	1D7	6AB6G	6AB6	6K7GT	6K7	7B5LT	7B5	35A5LT	35AS
1D8GT	1D8	6AB7	1853	6K7M	6K7	7B6LM	7B6	35L6GT	35L6
1E4G	1E4	6AC5G	6AC5	6K7MG	6K7	7B8LM	7B8	35Z4GT	35Z4
1E5G	1E5	6AC5GT	6AC5	6K8GT	6K8	7C5LT	7C5	35Z5GT	35Z5
1E5GP	1E5	6AC7	1853	6L5G	6L5	12A8GT	12A8	36A	36
1E5GT	1E5	6AE5GT	6AE5	6L6G	6L6	12B8GT	12B8	37A	37
1E7G	1E7	6B4G	6B4	6L7G	6L7	12F5GT	12F5	38A	38
1F5G	1F5	6B6G	6B6	6L7MG	6L7	12J5GT	12J5	39A	39
1F7G	1F7	6B6M	6B6	6N6G	6N6	12J7GT	12J7	40Z5GT	40Z5
1G4G	1G4	6B7M	6B8	6N7G	6N7	12K7GT	12K7	41S	41
1G5G	1G5	6B7S	6B7	6N7MG	6N7	12Q7GT	12Q7	42S	42
1G6G	1G6	6B8G	6B8	6P5G	6P5	13	80	43C	43
1H4G	1H4	6C5G	6C5	6Q7G	6Q7	13B	80	43MG	43
1H5G	1H5	6C5MG	6C5	6Q7Gt	6Q7	14Z3	12Z3	44	39
1H6G	1H6	6C8G	6C8	6Q7MG	6Q7	16	81	46S	46
1J5G	1J5	6D5G	6D5	6R7G	6R7	16B	81	47S	47
1J6G	1J6	6D5MG	6D5	6R7MG	6R7	24	24A	50L6GT	50L6
1N5G	1N5	6D8G	6D8	6S7G	6S7	24S	24A	51	35
1P5GT	1P5	6F5G	6F5	6SA7GT	6SA7	25	1B5	51S	35
1Q5G	1Q5	6F5GT	6F5	6SK7GT	6SK7	25S	1B5	55S	55
1T5GT	1T5	6F5MG	6F5	6SQ7GT	6SQ7	25A6G	25A6	56A	76
2A3H	2A3	6F6G	6F6	6T7G	6T7	25A6GT	25A6	56AS	76
2A6S	2A6	6F6M	6F6	6U7G	6U7	25A6MG	25A6	56S	56
2A7S	2A7	6F6MG	6F6	6V6G	6V6	25A7G	25A7	57A	6C6
2B7S	2B7	6F7S	6F7	6V6GT	6V6	25AC5GT	25AC5	57As	6D6



TUBE TYPE	SEE	TUBE TYPE	SEE	TUBE TYPE	SEE	TUBE TYPE	SEE	TUBE TYPE	SEE
57S	57	180	80	340	40	AC22	24A		
58A	606	182A	71A	345	45	AD	6Z3		
58AS	6D6	200	00A	347	47	AF	82		
58S	58	200A	00A	350	50	AG	83		
59S	59	201	01A	371A	71A	AX	01A		
64	36	201A	01A	380	80	B	99		
64A	36	210	10	381	81	BX	99		
65	39	210T	10	400A	00A	D <sub>1</sub>	81		
65A	39	213	80	401A	01A	D1	80		
67	37	213B	80	410	10	DE1	27		
67A	37	216	81	412A	12A	DV2	01A		
68	38	213B	81	420	20	DV5	01A		
68A	38	220	20	422	22	E	20		
70L7GT	70L7	222	22	424	24A	G	40		
71	71A	224A	24A	424A	24A	G2	2S		
71B	71A	226	26	426	26	G2S	2S		
75S	75	227	27	427	27	G4	2S		
78S	78	230	30	430	30	G40	40		
80M	83	231	31	431	31	G84	2Z2		
81M	81	232	32	432	32	H	00A		
84	6Z4	233	33	433	33	H250	12Z3		
84S	6Z4	234	34	434	34	K24	24A		
85AS	85	235	35	435	35	K27	27		
85S	85	236	36	436	36	KR1	6Z3		
86S	86	237	37	437	37	KR5	6A4		
88	83	238	38	438	38	KR25	2A5		
89RS	6G7	240	40	439	39	KR28	6Z4		
89S	89	245	45	440	40	KR31	6Z3		
95	2A5	247	47	441	41	KR98	6Z4		
96	6Z3	250	50	442	42	LA	6A4		
98	6Z4	290	80	444	39	P861	6Z4		
101A	01A	281	81	445	45	PZ	47		
110	10	300	00A	446	46	R45	45		
112	12A	300A	00A	447	47	RE1	80		
117Z6GT	117Z6	301	01A	450	50	RE2	81		
120	20	301A	01A	456	56	S02	50		
122	22	310	10	457	57	X140	40		
124	24A	313	80	458	58	G4S	2S		
126	26	313B	80	471A	71A	484A	484		
127	27	316	81	480	80				
130	30	316B	81	481	81				
131	31	322	22	482	82				
132	32	324A	24A	482A	71A				
133	33	326	26	482B	182B				
134	34	327	27	483	183				
135	35	330	30	551	35				
136A	36	331	31	551S	35				
137A	37	332	32	585	50				
138A	38	333	33	596	50				
139A	39	334	34	686	486				
145	45	335	35	879	2X2				
147	47	336	36	951	32				
150	50	337	37	985	6Z4				
171A	71A	338	38	986	83				

TUBE BASE CONNECTION FINDER FOR ALL SUPREME INSTRUMENT MODELS  
THIS LIST SUPERSEDES ALL PREVIOUS LISTS  
ASK FOR SUPPLEMENT TO TUBE BASE CONNECTION FINDER ISSUED 8-15-40  
WHEN INQUIRING REGARDING NEW TUBE LISTINGS

\* \* \* \* \*

TUBE ELEMENT SYMBOLS USED IN THIS BOOKLET

F - Filament	K - Cathode
H - Heater	S - Shell (See note below)
HK- Heater and Cathode	T - Target
HC- Heater Center	XS- External Shield
P - Plate	FM- Filament Mid-Tap
D - Diode Plate	SA- Starter Anode
G - Grid (See next paragraph)	IS- Insulating Shield

The numbers 1, 2, 3, 4, or 5 after Symbol "G" indicate the position of the Grids with respect to the Electron-Emitting Element, i.e., G-1, being nearest, G-2 second, G-3 third, etc.

The letters "a" and "b" after symbols are used to indicate sectional groups such as in the type 53 where "Pa" and "Ga" are plate and control grid of one triode and "Pb" and "Gb" are plate and control grid of the other triode.

"S" SYMBOL

The "S" symbol when encountered in this booklet denotes the shell or shield of the tube. Due to the variations between manufacturers, the same type tube may be offered with a metal shield by one manufacturer, a metal spray shield by another and in strictly a glass envelope without shielding by a third. Therefore, "S" denotes the shield pin connections if the tube is thus supplied. Actually, whether a tube is shielded or not, makes no difference in its test.

EXPLANATION OF SECOND COLUMN HEADED "SPEC. INST."

- 1 - G-3 connected to center tap of filament.
- 2 - K-b, G-1a and G-2a connected to Ka.
- 3 - G-3 internally connected to Ka (where two cathodes exist) or K (in one cathode tubes).
- 4 - Cathode connected to center of filament.
- 5 - With top cap.
- 6 - Without top cap.
- 7 - GP3 connected to cathode.
- 8 - G-1a and G-2 connected internally to K.
- 9 - Heater terminals on side of base. Connect these terminals by means of short leads to #1 and #5 holes in next socket.
- 10 - Heater terminals at top of tube. Connect these terminals by means of short leads to #1 and #5 holes in next socket.
- 11 - G-3 connected to one side of filament.
- 12 - Jumper between #3 and #7 base terminals.
- 13 - Cathode connected to both #4 and #7 base terminals.
- 14 - K and G<sub>2</sub> internally connected and not brought out to any tube terminal.
- 15 - On these tubes, the heater is tapped (HP) at 6.3 volts so that pilot light can be connected - 6.3 volts drop between #2 and #3 pins.



## TUBE BASE CONNECTIONS

TYPE	SPEC INST	1	2	3	4	5	6	7	8	T.C.
00A		F	P	G	F					
01A		F	P	G	F					
01B		F	P	G	F					
01C		F	P	G	F					
0A4*			K			A		Sa		
0Z3			P	P	K					
0Z4*		S		P		P			K	
1A4		F	P	G2	F					G1
1A5*			F	P	G2	G1		F		
1A6		F	P	G2	G	G3-5	F			G4
1A7*			F	P	G3-5	G1	G2	F		G4
1B4		F	P	G2	F					G1
1B5		F	P	D	D	G1	F			
1B7G			F	P	G3-5	G1	G2	F		
1B8*			F	Pb	G2b	G1b	Pa	F	D	G1a
1C5*			F	P	G2	G1		F		
1C6		F	P	G2	G1	G3-5	F			G4
1C7*		S	F	P	G3-5	G1	G2	F		G4
1D5*		S	F	P	G2			F		G1
1D7*		S	F	P	G3-5	G1	G2	F		G4
1D8*			F	Pa	G2a	G1p	Pb	F	D	G1b
1E4*		S	F	P		G		F		
1E5*		S	F	P	G2			F		G1
1E7*	11	S	F	Pa	G1-a	G1-b	Pb	F	G2	
1F4	11	F	P	G1	G2	F				
1F5*		S	F	P	G2	G1		F		
1F6	11	F	P	G2	D	D	F			G1
1F7*		S	F	P	D	D	G2	F		G1
1G4*			F	P		G		F		
1G5*		S	F	P	G2	G1		F		
1G6*			F	Pb	Gb	Ga	Pa	F		
1H4*		S	F	P		G		F		
1H5*			F	P	G2	D		F		G
1H6*		S	F	P	D	D	G	F		
1J5*			F	P	G2	G1		F		
1J6*		S	F	Pa	Ga	Gb	Pb	F		
1LA6		F	P	G2	G1	G3-5	G4		F	
1LB4*		F	P	G1		D			F	
1LC5		F	P	G2	G3		G1		F	
1LC6		F	P	G2	G1	G3	G4		F	
1LD5		F	P	G2	D		G1		F	
1LH4		F	P		D		G		F	
1LN5		F	P	G2	G3	F	G1		F	
1N5*			F	P	G2			F		G1
1N6*			F	P	G2	G1	D	F		
1P5			F	P	G2	G1		F		
1Q5*			F	P	G2	G1		F		
1R5		F	P	G2G4	G1	FG5	G3	F		
1S4		FG3	P	G1	G2	Fct	P	F		
1S5		F		D	G2	P	G1	F		
1T4		FLG3	P	G2		FG3	G1	Ft		
1V		H	P	K	H					
2A3		F	P	G	F					
2A5	3	H	P	G2	G1	KG-3	H			
2A6		H	P	D	D	K	H			G
2A6*		S	H	P	D	D		H	K	G
2A7		H	P	G3-5	G2	G1	K	H		G4

## TUBE BASE CONNECTIONS

TYPE	SPEC INST	1	2	3	4	5	6	7	8	TC
2B6		H	Pb	Pa	Ga	Ka-Gb	Kb	H		
2B7	3	H	P	G2	D	D	K-G3	H		G1
2E5		H	P	G	T	K	H			
2S		H	Pa	Pb	K	H				
2W3*		S	F		P				F	
2X2		F			F					P
2X3*			F		P				F	
2Y2		H			HK					P
2Y4		H	Pa	Pb	K	H				
2Z2		F	P		F					
3A8*		Fct	F	P	G2	G1a	Pa	F	D	G1b
3C5*			F	P	G1	G2		F	Fct	
3Q5*			F	P	G2	G1		F	Fct	
4A6*			F	Pa	Ga	Gb	Pb	F	FM	
5T4*		S	H		Pa		Pb		H	
5U4*		F	H		Pa		Pb		F	
5V4*		S	F		Pa		Pb		F	
5W4*		S	F		Pa		Pb		F	
5X3		F	P	P	F					
5X4*		S		Pa		Pb		F	F	
5Y3*		S	H		Pa		Pb		H	
5Y4*		S		Pa		Pb		F	F	
5Z3		F	Pa	Pb	F					
5Z4*		S	H		Pa		Pb		HK	
6A3		F	P	G	F					
6A4	1	F	P	G1	G2	F				
6A5*	4	S	H	P		G		H	K	
6A6		H	Pa	Ga	K	Gb	Pb	H		
6A7		H	P	G3-5	G2	G1	K	H		G4
6A7M*		S	H	P	G3	G1	G2	H	K	G4
6A8*		S	H	P	G3-5	G1	G2	H	K	G4
6AB5		H	P	G	T	K	H			
6AB6*		S	H	P2	P1	G1		H	K	
6AC5*			H	P		G		H	K	
6AC6*	14		H	P2	P1	G1		H	K2	
6AD5*			H	G		P		H	K	
6AD6*			H	CONTROL	ELEC	P		H	K	
6AE5*			H	P		G		H	K	
6AE6*			H	P1	P2	G		H	K	
6AF5*			H	P		G1		H	K	
6AF6*			H	CONTROL	ELEC	T		H	K	
6AL6*			H		G2	G1		H	K	P
6B4*		S	F	P		G		F		
6B5	2	H	Pa	Pb	Gb	Ka	H			
6B6		H	Pa	Pb	Gb	Kb-Ga	Ka	H		
6B6*		S	H	P	D	D		H	K	G
6B7	3	H	P	G2	D	D	K	H		G1
6B8*		S	H	P	D	D	G2	H	K	G1
6C5*		S	H	P		G		H	K	
6C6*		H	P1	P2	G3	K	H			G1
6C7		H	P	XS	D	D	K	H		G
6C8*		S	H	Pa	K	Gb	Pb	H	K	Ga
6D5*		S	H	P		G		H	K	
6D6		H	P	G2	G3	K	H			G1
6D7		H	P	G2	G3	XS	K	H		G1
6D8*		S	H	P	G3-5	G1	G2	H	K	G4
6E5		H	P	G	T	K	H			



## TUBE BASE CONNECTIONS

TYPE	SPEC INST	1	2	3	4	5	6	7	8	TC
6E6		H	Pa	Ga	K	Gb	Pb	H		
6E7		H	P	G2	G3	XS	K	H		G1
6F5*	5	S	H		P			H	K	G4
6F6*	7	S	H	P	G2	G1		H	K	
6F7	3	H	Pa	G2a	Pb	G1b	K-G3a	H		G1a
6F7*		S	H	Pb	Gb2	Pa	Ga	H	K	Gb1
6F8*			H	Pa	Ka	Gb	Pb	H	Kb	Ga
6G5		H	P	G	T	K	H			
6G6*			H	P	G2	G1		H	K	
6G7S		H	P	G2-Kb	Pb	G3-Ka	Pa	H		G1
6H4			F		P			F	K	
6H4*			H	P				H	K	
6H6*		S	H	Pa	Ka	Pb		H	Kb	
6H7M*		S	H	Pa	G2a	G1a	Pb	H	K-G3	G1b
6H7S	3	H	Pa	G2a	G1a	Pb	K	H		G1b
6J5*		S	H	P		G		H	K	
6J7*		S	H	P	G2	G3		H	K	G1
6J8*			H	Pa	G2a-4a	G1b-3a	Pb	H	K-G5a	G1a
6K5*		S	H	P				H	K	G
6K6*		S	H	P	G2	G1		H	K	
6K7*		S	H	P	G2	G3		H	K	G1
6K8*		S	H	Pa	G2a-4a	G1b-3a	Pb	H	K-G5a	G1a
6L5*		S	H	P		G		H	K	
6L6*		S	H	P	G2	G1		H	K	
6L7*		S	H	P	G2-4	G3		H	K-G5	G1
6N5		H	P	G	T	K	H			
6N6*	8	S	H	Pa	Pb	G1b		H	K	
6N7*		S	H	Pa	Ga	Gb	Pb	H	K	
6P5*			H	P		G1		H	K	
6P7*		S	H	H	Pa	G2	Pb	G1b	K-G3	G1a
6Q6*		S	H	P		D		H	K	
6Q7*		S	H	P	D	D		H	K	G
6R6*			H	G2		P		H	K	G1
6R7*		S	H	P	D	D		H	K	G
6S7*		S	H	P	G2	G3		H	K	G1
6SA7*		S	H	P	G2-4	G1	K	G3		
6SC7*		S	Pa	Ga	Gb	Pb	K	H	H	
6SF5*		S	K	G		P		H	H	
6SJ7*		S	H	G3	G1	K	G2	H	P	
6SK7*		S	H	G3	G1	K	G2	H	P	
6SQ7*		S	G	K	D	D	P	H	H	
6SR7*		S	G1	K	D	D	P	F	H	
6T5		H	P	G	T	K	H			
6T7*		S	H	P	D	D		H	K	G
6U5		H	P	G	T	K	H			
6U7*		S	H	G	G2	G3		H	K	G1
6V6*		S	H	P	G2	G1		H	K	
6V7*		S	H	P	D	D		H	K	G
6W5*			H	P		P		H	K	
6W6		S	H	P	G2	G1		H	K	
6W7*			H	P	G2	G3		H	K	G1
6X5*		S	H	Pa		Pb	H	H	K	
6X6*		S	H	Ptv	T	G	Kt	H	K	
6Y5		H	XS	Pa	K	Pb	H			
6Y5V		H	XS	Pa	K	Pb	K			
6Y6*			H	P	G2	G1		H	K	
6Y7*		S	H	Pa	Ga	Gb	Pb	H	K	

TUBE BASE CONNECTIONS

TYPE	SPEC INST	1	2	3	4	5	6	7	8	TC
6Z4		H	Pa	Pb	K	H				
6Z5		HC	H	Pa	K	Pb	H			
6ZY5*		S	H	Pa		Pb		H	K	
6Z6*		S	H	Pa	Ka	Pb		H	Kb	
6Z7*			H	P1	G1	G2	P2	H	K	
7A4		H	P				G	K	H	
7A5		H	P	G2			G1	G3	H	
7A6		H	Ka	Pa		IS	Pb	Kb	H	
7A7		H	P	G2	G3	S	G	K	H	
7A8		H	P	G2	G1	G3	G4	K-G5	H	
7B4		H	P			S	G1	K	H	
7B5		H	P	G2			G1	K	H	
7B6	13	H	P	G	K	D1	D2	K	H	
7B7		H	P	G2	G3	IS	G1	K	H	
7B8		H	P	G2	G1	G3	G4	K	H	
7C5		H	P	G2			G1	K	H	
7C6	13	H	P	G	K	D1	D2	K	H	
7C7		H	P	G2	G3	IS	G1	K	H	
7E6		H	P	G	K	D	D	K	H	
7E7		H	P	D	D	G2	G1	K-G3	H	
7F7		H	Ka	Pa	G1a	G1b	Pb	Kb	H	
7H7		H	P	G2	G3	S	G1	K	H	
7J7		Ht	H	P	Kr	PL		H	K	
7L7		H	P	G2	G3	S	G1	K	H	
7N7		H	K	Pa	Ga	Gb	Pb	K	H	
7Q7		H	P	G2-4	G1	G5	G3	K	H	
7Y4		H		P			P	K	H	
10		F	P	G	F					
10S		F		G	F					
12A		F	P	G	F					
12A5	3	K	P	G2	G1	K-G3	HC	H		
12A7	3	H	Pa	G2a	Kb	Pb	Ka-G3a	H		G1a
12A8*		S	H	P	G3-5	G1	G2	H	K	G4
12B7		H	P	G2	G3	S	G1	K	H	
12B8*		Ka	H	Pa	G2a	Pb	Kb	H	Gb	G1a
12C8*		S	H	P	D	D	G2	H	K	G1
12E5		S	H	P		G1		H	K	
12F5*			H		P			H	K	G
12J5			H	P		G1		H	K	
12J7*		S	H	P	G2	G3		H	K	G1
12K7*		S	H	P	G2	G3		H	K	G1
12K8*			F	P	G3	G1a	P1a	F	K	G1
12Q7*			H	P	D1	D2		H	K	G
12SA7*		S	H	P	G2-4	G1	K	H	G3	
12SC7*		S	Pa	Ga	Gb	Pb	K	H	H	
12SF5			K	G1		P		H	H	
12SJ7*		S	H	G3	G1	K	G2	H	P	
12SK7*		S	H	G3	G1	K	G2	H	P	
12SQ7*		S	G	K	D	D	P	H	H	
12Z3		H	P	K	H					
12Z5		H	Pa	Ka	HC	Kb	Pb	H		
14		H	P	G2	K	H				G1
14B6		H	P	G	K	D	D	K	H	
14J7		H	Pb	Pa	G3b	G2	G1b	K	H	
14Q7		H	P	G3	G1	G4	G3	K	H	
15	3	H	P	G2	K-G3	H				G1
17		H	P	G	K	H				



## TUBE BASE CONNECTIONS

TYPE	SPEC INST	1	2	3	4	5	6	7	8	TC
18	3	H	P	G2	G	K-G3	H			
19		F	Pa	Ga	Gb	Pb	F			
20		F	P	G	F					
22		F	P	G2	F					G1
22S		F	P	G2	F					G1
24*		S	H	P		G2		H	K	G1
24A		H	P	G2	K	H				G1
25A6*	3	S	H	P	G2	G1		H	K-G3	
25A7*	3	Kb	H	Pa	G2a	G1a	Pb	H	Ka-G3a	
25AC5*			H	P		G		H	K	
25B5		H	Pa	Pb	G	K	H			
25B6*		S	H	P	G2	G1		H	K	
25B8		Ka-G3a	H	Pa	G2a	Pb	Kb	H	G1b	G1a
25C6			H	P	G2	G1		H	K	
25D8		K	F	Pa	Gb2	G1b	Pa	F	D	G1b
26L6*		S	H	P	G2	G1		H	K	
25N6*		S	H	Pa	Pb	G		H	K	
25X6*		S	H	Pa	Ka	Pb		H	Kb	
25Y4*	13	S	H			P		H	K	
25Y5		H	Pa	Ka	Kb	Pb	H			
25Z4*		S	H			P		H	K	
25Z5		H	Pa	Ke	Kb	Pb	H			
25Z5*		S	H	Pb	Kb	Pa		H	Ka	
25Z6*		S	H	Pa	Ka	Pb		H	Kb	
26		F	P	G	F					
26S		F	P	G	F					
27		H	P	G	K	H				
27*		S	H	P	G	G		H	K	
29		H	P	Ga	Gb	K	H			
30		F	P	C	F					
30X		F	P	C	F					P
30S		F	P	G	F					
31		F	P	C	F					
32		F	P	G2	F					G1
32S		F	P	G	F					
32L7*		Kb	H	Pa	G2a	G1a	Pb	H	Ka	
33	11	F	P	G1	G2	F-G3				
34	1	F	P	G2	F					G1
34*		S	P	P	G2			F		G1
35		H	P	G2	K	H				G1
35A5		H	P	G2			G1	K	H	
35L6*			P	P	G2	G1		H	K	
35Z3		H	P					K	H	
35Z4*			H			P		H	K	
35Z5*	15	S	H	Hp		P		H	K	
36		H	P	G2	K	H				G1
37		H	P	G	K	H				
38	3	H	P	G2	K-G3	H				G1
39	3	H	P	G2	K-G3	H				G1
40		F	P	G	F					
40S		F	P	G	F					
40Z5*	15	S	H	Hp		P		H	K	
41	3	H	P	G2	G1	K-G3	H			
41M*		S	H	P	G2	G1		H	K-G3	
42	3	H	P	G2	G1	K-G3	H			
43	3	H	P	G2	G1	K-G3	H			
43*		S	H	P	G2	G1		H	K	

## TUBE BASE CONNECTIONS

TUBE	SPEC INST	1	2	3	4	5	6	7	8	TC
45		F	P	G	F					
45Z5		F	H	Ht		P		H	K	
46		F	P	G1	G2	F				
47	1	F	P	G1	G2	F				
48		H	P	G2	G1	K	H			
48S		F	P	G	F					
49		F	P	G1	G2	F				
50		F	P	G	F					
50C6*			H	P	G2	G1		H	K	
50L6*		S	H	P	G2	G1		H	K	
50Y6*		S	H	Pa	Ka	Pb		H	Kb	
50Z7*			H	Pa	Ka	Pb	Ft	F	Kb	
51*		S	H	P		G2		H	K	G1
52		F	P	G1	G2	F				
53		H	Pa	Ga	K	Gb	Pb	H		
55		H	P	D	D	K	H			G
55*		S	H	P	D	D		H	K	G
56		H	P	G	K	H				
56*		S	H	P		G		H	K	
57		H	P	G2	G3	K	H			G1
57*		S	H	P	G2	G3		H	K	G1
58		H	P	G2	G3	K	H			G1
58*		S	H	P	G2	G3		H	K	G1
59		H	P	G2	G1	G3	K	H		
59B		F	P	G2	G1	G3		F		
69		H	P	Ga	Gb	K	H			
70		H	P	Ga	Gb	K	H			
70A7*		Kr	H	Pa	G2a	G1a	P2-Ft	H	Ka	
70L7*		Ka	H	Pb	G2b	G1	K	H	Pa	
71A		F	P	G	F					
75		H	P	D	D	K	H			G1
75*		S	H	P	D	D		H	K	G
76		H	P	G	K	H				
77		H	P	G2	G3	K	H			G1
77*		S	H	P	G2	G3		H	K	G1
77M*		S	H	P	G2	G3		H	K	G1
78		H	P	G2	G3	K	H			G1
78*		S	H	P	G2	G3		H	K	G1
79		H	Pa	Ga	K	Pb	H		F	Gb
80*		S	F		Pa		Pb			
80		F	Pa	Pb	F					
81		F	P		F					
82		F	Pa	Pb	F					
83		F	Pa	Pb	F					
83V	4	F	Pa	Pb	F					
85		H	P	D	D	K	H			G
85*		S	H	P	D	D		H	K	G
86		H	P	G	K	H				
86M*		S	H	P	G	G		H	K	
87S		H	P	G2	G3	K	H			G1
88*		S	H	P	G2	G3		H	K	G1
88S		H	P	G2	G3	K	H			G1
89		H	P	G2	G3	K	H			G1
99		F	P	G	F					
101F		F	G1	P	F					
117L7*		Kr	H	Pa	G1a	G2a	Pr	H	Ka	



## TUBE BASE CONNECTIONS

TUBE	SPEC INST	1	2	3	4	5	6	7	8	TC
117M7		K	H	P	G1	G2	P	H	K	
117N7			F	P	G1	G2		F1-P	K	
117Z6		Hc	H	Pa	Ka	Pb		H	Kb	
121B		F	P	G	F					
181	9		P	G	K					
182B		F	P	G	F					
183		F	P	G	F					
205D		F	P	G	F					
257	1	F	P	G1	G2	F				
401	10		P	G						
403	10		P	G						
484		H	P	G	K	H				
485		H	P	G	K	H				
486		F	P	G	F					
802		H	IS	G2	G1	G3	K	H		P
807		H	G2	G1	K	H				P
841		F	P	G	F					
842		F	P	G	F					
864		F	P	G	F					
884*			H	P		G		H	K	
885		H	P	G	K	H				
950		F	P	G1	G2	F				
1221		H	P	G2	G3	K	H			G1
1223*		S	H	P	G2	G3		H	K	G1
1231		H	P	G2	G3	S	G1	K	H	
1232		H	P	G2	G3	S	G1	K	H	
1612*		S	H	P	G2-4	G3		H	K-G5	G1
1851*		S	H	P	G2	G3		H	K	G1
1852*		S	H	G3	G1	K	G2	H	P	
1853*		S	H	G3	G1	K	G2	H	P	
7000*			H	P	G2	G3		H	K	G1
7700		H	P	G2	G3	K	H			G1
BH		Pa	K		Pb					
BR		K	JUMPER		P					
CK501		F	P	G1	G2	F				
CK502		F	P	G1	G2	F				
CK503		F	P	G1	G2	F				
CK504		F	P	G1	G2	F				
GA		F	P	G1	G2	F				
HY113		F	P	G1		F				
HY115		F	P	G1	G2	F				
HY123		F	P	G1		F				
HY125		F	P	G1	G2	F				
HY145		F	P	G1	G2	F				
HY155		F	P	G1	G2	F				
KR22		H	P	Ga	Gb	K	H			
PA		H	P	G2	K	H				G1
PZH		H	P	G2	G3	K	H			
R20	10		P	G	K					
R30		H	P	G	K	H				
R32	10		P	G	K					
R100		F	P		F					
R200		F	P		F					
RK24		F	P	G	F					
RK33		H	Ka	Pa	Gb	Pb	Kb	H		Ga
VR90			K			A				

TUBE BASE CONNECTIONS

TYPE	SPEC INST	1	2	3	4	5	6	7	8	TC
VR105										
-30	12		K		A					
VR150										
-30	12		K			A				
WD11		F	P	F	G					
WUND-A	5	H	Ga	P	Gb	H				K
WUND-AR		H	P	Gla	Glb	K	H			
WX12		F	P	G	F					
XXD		F		P	G1			K		F
XXL		F					P	K		F



TUBE TYPE	FVS	CS	QS	FRS	SWITCHES UP	SPEC. INSTRUCTIONS.
1B8*	1.5	B	17	2	3468	
1B8*	1.5	B	12	2	346C	
1B8*(D10)	1.5	B	8	2	3456	
1LC5 (A)	1.5	D	15	1	2346	Loctal Adapter
1LC6	1.5	B	10	1	23456	
1LD5	1.5	D	20	1	236	
1LD5 (D10)	1.5	D	60	1	4	
6SR7*	6.3	C	61	8	26	
6SR7*(D10)	6.3	B	15	8	45	
7B4	6.3	C	30	1	26	
7L7	6.3	C	5	1	2346	
7N7	6.3	C	30	1	34	
7N7	6.3	C	30	1	56	
14B6	12.6	C	14	1	2356	
14B6 (D10)	12.6	E	16	1	56	
14J7	12.6	C	4	1	346	
14Q7	12.6	C	5	1	34	
117M7 (HI)	2	C	90	2	6	
117M7 (HI)	2	C	0	2	345	
117N7 (HI)	30	C	0	2	345	
HY145	1.5	B	40	1	23	
HY155	1.5	B	12	1	234	

TUBE TYPE	FVS	CS	QS	FRS	SWITCHES UP	SPECIAL INSTRUCTIONS
CK 501	1.5	B	15	1	2-3-4	
CK 502	1.5	B	7	1	2-3-4	
CK 503	1.5	B	7	1	2-3-4	
CK 504	1.5	B	7	1	2-3-4	
HY 113	1.5	B	40	1	2-3	
HY 115	1.5	B	12	1	2-3-4	
HY 125	1.5	B	12	1	2-3-4	
7H7	6.3	C	20	1	3-4-6	
35Z6*	30.0	A	30	2	3	
35Z6*	30.0	A	30	2	5	

NOTE: The CK and HY miniature series require our adapter #7848 - Dealer's Net Price \$0.59.

CORRECTION TO 501 TUBE LIST BOOKLET 4-1-40

35Z5	25.0	A	37	7	5	#2 and #3 show short
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ADDITIONAL TUBE TYPES

7G7	See 1252					
6G5	See 6U5					





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