

# **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.**

89 is 385

COMBINED TUBE LIST FOR SUPREME INSTRUMENT MODELS  
 35 - 85 - 85P - 85 PL - 85 C - STANDARD DIAGNOMETER  
 89 S - 89 D - 89 C - 385 - 89 DL - 385 D L

THIS LIST SUPERSEDES ALL PREVIOUS LISTS FOR THE ABOVE MODELS

ISSUED 6-1-39

ASK FOR SUPPLEMENT TO LIST "A" DATED 6-1-39  
 WHEN INQUIRING REGARDING NEW TUBE LISTINGS

NOTE: 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.

PLEASE STUDY THESE INSTRUCTIONS BEFORE PROCEEDING

GENERAL - Two basic tube lists have been combined in this listing--those serving both the 85 and 89 series tester. Thus, certain columns in this tube list serve both series testers, some serve just the 85 series (comprising 35, 85, 85-P, 85-PL, 85-C and Standard Diagonometer) while others serve just the 89 series (comprising 89-S, 89-D, 89-C, 385, 89-DL, 385-L). The letter (O) after a tube type denotes an octal tube type. The letter (L) after a tube type denotes a loctal tube type. All others are non-octal types.

ALL OWNERS - Tubes with the letter "S" enclosed in parenthesis, i.e., "(S)" are special foreign types with 14.0 volt filaments. Do not confuse these with similar American types having much lower filament potentials.

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. Thank you.

THE FOLLOWING TUBE TYPES CANNOT BE CHECKED ON THESE TESTERS - OA4(O), OZ3, OZ4(O), 2E5, 6AB5, 6AD6(O), 6AF6(O), 6E5, 6G5, 6N5, 6T5, 6U5, 6X6(O), BA, BH, BR, WX12, WD11, 2Y2, 884(O); 885, VR90, VR105-30, VR-150-30. We suggest that in these cases the serviceman try a new tube in place of the doubtful one.

TO PROPERLY USE FOLLOWING TUBE LISTINGS -

OWNERS OF 89 SERIES TESTERS SHOULD REFER TO THE FOLLOWING COLUMNS:  
 (1) Type, (2), F.V.S., (3) the four columns under "89 series."  
 OWNERS OF 85 SERIES TESTERS SHOULD REFER TO THE FOLLOWING COLUMNS:  
 (1) Type, (2) F.V.S., (3) the two columns under "85 series."

OWNERS who have models with "R" potentiometers should use "R" settings. Those having Models with "S" potentiometers should use "S" settings. OWNERS OF BOTH SERIES should also note the column "S.I." wherein will be a key letter or letters after certain tubes which refer the user to the following special instructions or adapters required to test tubes.

THE KEY LETTERS FOLLOW WITH THEIR MEANING:

A - 85 series only - use Adapter with Orange Dot (our stock #7173).  
 Price \$0.59.

- B - 85 Series only - use Adapter with Violet Dot ( our stock #7174).  
Price \$0.59.
- C - 85 Series only - use Adapter with Black Dot (our stock #7136).  
Price \$0.59.
- D - 85 Series only - use Adapter (our stock #5542). Price \$1.25. This  
Adapter has attached lead.
- E - 85 and 89 series - use Adapter (our stock #7530. Price \$3.00/
- F - 85 Series only - Use adapter (our stock #7749. Price \$0.59.
- G - 85 series only - Use adapter (our stock #5541). Price \$0.59. This  
adapter has a violet dot and one pin clipped.
- H - 85 Series only - use adapter (our stock \$5540). Price \$0.59. This  
adapter has a green dot.
- I - 89 Series only - use adapter (our stock \$5545). Price \$1.00. Octal  
base to octal pins.
- P - 89 Series - "F" and "8" buttons should light neon tube during leak-  
age test.
- Q - 85 Series - Depress #5 and #7 buttons simultaneously on leakage or  
quality tests.
- R - 89 Series - Depress #4 and #7 buttons simultaneously on leakage and  
quality tests.
- S - 89 Series only - Will light on leakage test on "F" and "8".
- T - Cathode connected to mid-point of filament. Tube tested by connect-  
ing two halves of filament in parallel and applying 3.3 volt fila-  
ment potential. On leakage test DO NOT depress buttons "F" and "7".
- U - Neon will light during leakage test on both "F" and "7". CAUTION!  
When making quality test be sure to depress and release "F" and "7"  
simultaneously as the tube will be damaged otherwise.
- V - 89 Series only - Depress "F" and "8" buttons continually during  
leakage test.
- W - 89 Series only - Throw the "12A5" and "12Z5" tumbler switches from  
"NORMAL" to the "12A5" and "12Z5" positions during test.
- X - 85 and 89 Series - Throw "12A5" switch from "NORMAL" to "12A5"  
position during test.
- Y - 85 and 89 Series - Throw "12Z5" tumbler switch from "NORMAL" to  
"12Z5" position during test.
- Z - 85 and 89 series - Throw "6Z5" tumbler switch from "NORMAL" to  
"6Z5" position during tests.

COMBINED 85 & 89 TUBE LISTS

BOTH SERIES		89 SERIES ONLY (INCLUDING 385)					85 SERIES ONLY		
TYPE	F.V.S.	F.R.S.	Q. S.		BUTTON	S.I.	Q.S.	BUTTON	S.I.
			"R" POT	"S" POT					
00A	5.0	7	75.5	72.5	F		60.5	3	
01A	5.0	7	74.5	74.5	F		74.0	3	
01B	5.0	7	70.0	62.0	F		73.0	3	
01C	5.0	7	72.0	68.0	F		75.0	3	
1A4	2.0	7	75.0	76.5	F		67.5	3	
1A5(O)	1.5	7	74.0	70.0	F	W	71.0	3	B
1A6	2.0	7	74.5	75.0	F		71.0	3	
1A7(O)	1.5	7	74.5	75.0	F	W	76.0	3	B
1B4	2.0	7	73.0	70.0	F		76.5	3	
1B5	2.0	7	73.0	73.0	F		64.5	3	
1C5(O)	1.5	7	70.0	60.0	F	W	60.0	3	B
1C6	2.0	7	70.5	65.0	F		64.0	3	
1C7(O)	2.0	7	71.5	67.5	F	W	68.5	3	B
1D5(O)	2.0	7	73.0	74.5	F	W	68.5	3	B
1D7(O)	2.0	7	73.0	76.5	F	W	72.5	3	B
1E4(O)	1.5	7	70.0	68.0	F	W	62.0	3	B
1E5(O)	2.0	7	73.0	73.0	F	W	69.0	3	B
1E7(O)	2.0	7	50.0	50.0	F	W	44.5	3	B
1F4	2.0	7	70.0	60.5	F		55.5	3	
1F5(O)	2.0	7	70.0	57.0	F	W	53.0	3	B
1F6	2.0	7	74.0	75.0	F		64.0	3	
1F7(O)	2.0	7	77.0	77.0	F	W	75.0	3	B
1G4(O)	1.5	7	69.0	65.0	F	W	60.0	3	B
1G5(O)	2.0	7	70.0	64.0	F	W	61.0	3	B
1G6(O)	1.5	7	68.0	61.0	F		48.0	3	B
1H4(O)	2.0	7	74.0	73.5	F	W	66.5	3	B
1H5(O)	1.5	7	75.0	72.0	F	W	72.0	3	B
1H6(O)	2.0	7	74.0	73.0	F	W	65.0	3	B
1J5(O)	2.0	7	74.0	68.0	F	W	73.0	3	B
1J6(O)	2.0	7	68.0	54.5	F	W	52.0	3	B
1N5(O)	1.5	7	72.0	66.5	F	W	63.5	3	B
1N6(O)	1.5	7	80.0	82.0	F		67.0	3	B
1Q5(O)	1.5	7	65.0	54.0	F	W	46.0	3	B
1V	6.3	7	67.0	55.0	3		29.0	1	
2A3	2.5	7	46.5	34.0	F		40.0	3	
2A5	2.5	7	65.0	53.0	5		45.0	5	
2A6	2.5	7	68.0	55.5	5		44.0	5	
2A6(O)	2.5	7	62.0	52.0	8	W	70.0	2	B
2A7	2.5	7	65.5	53.0	6		43.0	5	
2B6	2.5	7	69.5	59.0	6		59.5	5	
2B7	2.5	7	69.0	59.0	6		65.0	5	
2S	2.5	7	74.5	76.0	4		83.0	5	
2X3(O)	2.5	8	70.0	67.0	F		72.0	3	A
2X3(O)	2.5	8	70.0	65.0	F		75.0	2 & 3	B
2Y4	2.5	7	51.5	40.0	4		30.5	5	
2Z2	2.5	7	73.5	74.0	F		75.0	3	
4A6(O)	2.0	8	67.0	53.0	F & 7	U & W	56.0	3	G
5T4(O)	5.0	8	50.0	41.0	F		35.5	3	A
5U4(O)	5.0	8	50.0	40.0	F		42.0	3	A
5V4(O)	5.0	8	40.0	26.0	F	W	26.5	3	A
5W4(O)	5.0	8	65.5	52.0	F		52.5	3	A
5X3	5.0	1	62.0	52.0	F		50.0	3	
5X4(O)	5.0	7	50.0	39.0	F & 8	W & V	41.0	3	F
5Y3(O)	5.0	8	67.0	54.0	F		51.5	3	A

BOTH SERIES		89 SERIES ONLY (INCLUDING 385)					85 SERIES ONLY		
TYPE	F.V.S.	F.R.S.	Q. S.		BUTTON	S.I.	Q. S.	BUTTON	S.I.
			"R" POT	"S" POT					
5Y4(O)	5.0	7	68.5	67.5	F & 8	W & V	57.0	3	F
5Z3	5.0	7	55.0	44.0	F		42.0	3	
5Z4(O)	5.0	8	45.0	34.0	F		31.0	3	A
6A3	6.3	7	51.0	39.0	F		40.5	3	
6A4	6.3	7	68.0	56.0	F		57.0	3	
6A5(O)	3.3	8	51.0	39.0	F & 7	W & T	60.0	3	F
6A6	6.3	7	46.5	34.5	4		27.0	7	
6A7	6.3	7	66.5	54.0	6		44.5	5	
6A7M(O)	6.3	7	63.0	52.0	8	W	45.0	2	B
6A8(O)	6.3	7	63.0	53.5	8	W	43.5	2	B
6AB6(O)	6.3	7	83.0	85.0	8	W	68.0	2	B
6AC5(O)	6.3	7	68.0	53.0	8	W	48.0	2	B
6AC6(O)	6.3	7	75.0	79.0	8		50.0	2	B
6AD5(O)	6.3	7	93.0	95.0	8		35.0	2	B
6AE5(O)	6.3	7	88.0	85.0	8		55.0	2	B
6AE6(O)	6.3	7	69.0	51.0	8	W	51.0	2	B
6B4(O)	6.3	7	50.0	39.0	F	W	41.5	3	B
6B5	6.3	7	70.0	63.0	F & 5		62.5	3 & 5	
6B6	6.3	7	68.0	56.0	5 & 6		52.0	5 & 6	
6B6(O)	6.3	7	68.0	53.0	4 & 8	W	52.0	2 & 7	B
6B7	6.3	7	69.5	60.5	6		57.5	5	
6B8(O)	6.3	7	70.0	55.0	8	W	60.0	2	B
6C5(O)	6.3	7	65.5	53.5	8	W	48.5	2	B
6C6	6.3	7	65.5	53.5	5		46.5	5	
6C7	6.3	7	64.0	52.5	6		44.5	5	
6C8(O)	6.3	7	64.0	52.0	4 & 8		42.0	2	B
6D5(O)	6.3	7	68.5	54.5	8	W	46.5	2	B
6D6	6.3	7	66.5	53.5	5		47.0	5	
6D7	6.3	7	64.0	52.0	6		42.0	5	
6D8(O)	6.3	7	68.5	53.5	8	W	53.0	2	B
6E6	6.3	7	53.0	42.0	4		33.5	7	
6E7	6.3	7	66.5	53.5	6		45.0	5	
6F5(O)	6.3	7	66.0	47.0	8	W	40.0	2	B
6F6(O)	6.3	7	68.0	54.0	8	W	46.0	2	B
6F7	6.3	7	68.0	55.5	6		49.0	5	
6F7(O)	6.3	7	70.0	58.0	8		58.0	2	B
6F8(O)	6.3	7	54.0	42.0	8	W	26.0	2 & 7	B
6G6(O)	6.3	7	68.0	54.0	8	W	55.0	2	B
6G7S	6.3	7	68.0	55.0	6		22.5	1 & 6	
6H6(O)	6.3	7	94.0	92.5	4 & 8		50.0	2 & 7	B
6H7M(O)	6.3	7	68.0	55.0	8	W	46.0	2	B
6H7S	6.3	1	60.0	50.0	6		45.0	5	
6J5(O)	6.3	7	50.0	40.0	8	W	40.0	2	
6J7(O)	6.3	7	66.5	53.5	8	W	46.0	2	
6J8(O)	6.3	7	54.0	43.0	8	W	33.0	2	B
6K5(O)	6.3	7	65.0	45.0	8	W	35.0	2	B
6K6(O)	6.3	7	66.0	54.0	8	W	56.0	2	B
6K7(O)	6.3	7	67.5	54.0	8	W	47.5	2	B
6K8(O)	6.3	7	44.0	31.0	8	W	27.0	2	B
6L5(O)	6.3	7	68.5	55.0	8	W	52.0	2	B
6L6(O)	6.3	7	49.5	39.5	8	W	35.0	2	B
6L7(O)	6.3	7	55.0	44.5	8	W	35.0	2	B
6N6(O)	6.3	7	72.0	67.0	8	W	66.0	2	B
6N7(O)	6.3	7	50.0	40.0	8	W	29.0	2	B

BOTH SERIES		89 SERIES ONLY (INCLUDING 385)					85 SERIES ONLY		
TYPE	F.V.S.	F.R.S.	"R" POT	"S" POT	BUTTON	S.I.	Q.S.	BUTTON	S.I.
6P5(O)	6.3	7	70.0	56.0	8	W	52.0	2	B
6P7(O)	6.3	3	68.0	56.0	8	W	51.0	1	C
6Q6(O)	6.3	7	66.5	52.0	8	W	47.0	2	B
6Q7(O)	6.3	7	62.0	52.0	8	W	40.0	2	B
6R6(O)	6.3	7	69.0	65.0	8		50.0	2	B
6R7(O)	6.3	7	66.0	53.0	8	W	50.0	2	B
6S7(O)	6.3	7	58.5	53.0	8	W	50.0	2	B
6SA7(O)	6.3	7	72.0	75.0	6		35.0	5	B
6sC7(O)	6.3	7	65.0	53.0	6	S	40.0	5	H
6SF5(O)	6.3	7	55.0	45.0	F & 7	W	40.0	2	H
6SJ7(O)	6.3	7	55.0	45.0	5	W	43.0	6	B
6SK7(O)	6.3	7	58.0	49.0	5	W	44.0	6	B
6SQ7(O)	6.3	7	59.0	49.0	3	W & S	42.0	1	H
6T7(O)	6.3	7	58.0	47.5	8	W	38.0	2	B
6U7(O)	6.3	7	65.0	53.0	8	W	50.0	2	B
6V6(O)	6.3	7	52.0	40.0	8	W	40.0	2	B
6V7(O)	6.3	7	69.5	56.0	8	W	50.0	2	B
6W5(O)	6.3	7	89.0	92.0	8		23.0	2	B
6W7(O)	6.3	7	63.0	51.0	8	W	43.0	2	B
6X5(O)	6.3	7	45.0	33.0	8	W	24.0	2	B
6Y5	6.3	7	44.0	31.0	4		21.5	6	
6Y5V	6.3	7	49.0	36.0	4		20.5	6	
6Y6(O)	6.3	7	74.0	75.0	8		24.0	2	B
6Y7(O)	6.3	7	47.0	33.0	8	W	30.0	2	B
6Z4	6.3	7	43.5	32.0	4		23.0	5	
6Z5	12.6	7	44.5	32.0	4	Z	22.5	6	Z
6ZY5(O)	6.3	7	55.0	40.0	8		30.0	2	B
6Z6(O)	6.3	7	43.0	31.0	4 & 8	W	23.5	2 & 7	B
6Z7(O)	6.3	7	68.0	41.0	8	W	32.0	2	B
7A4(L)	6.3	1	56.0	48.0	7	I & S	37.0	5	D
7A6(L)	6.3	1	68.0	62.0	2 & 7	I & S	42.0	2 & 5	D
7A7(L)	6.3	1	68.0	54.0	7	I & S	44.0	5	D
7A8(L)	6.3	1	65.0	55.0	7	I & S	52.0	5	D
7B5(L)	6.3	1	66.0	55.0	7	I & S	43.0	5	D
7B6(L)	6.3	1	72.0	76.0	4 & 7	I, R & S	37.0	5 & 7	D & Q
7B7(L)	6.3	1	67.0	57.0	7	I & S	50.0	5	D
7B8(L)	6.3	1	63.0	53.0	7	I & S	37.0	5	D
7C5(L)	6.3	1	64.0	53.0	7	I & S	41.0	5	D
7C6(L)	6.3	1	74.0	77.0	4 & 7	I, R & S	50.0	5 & 7	D & Q
7C7(L)	6.3	1	68.0	57.0	7	I & S	45.0	5	D
7E6(L)	6.3	1	71.0	74.0	4 & 7	I, R & S	39.0	5 & 7	D & Q
7Y4(L)	6.3	1	65.0	53.0	7	I & S	31.0	5	D
10	7.5	7	72.0	70.0	F		73.0	3	
10S	7.5	7	71.5	68.5	F		71.0	3	
12A	5.0	7	68.0	55.0	F		53.0	3	
12A5	12.6	7	66.0	50.0	5	X	54.0	6	X
12A7	12.6	7	45.0	35.0	6 & 4		21.5	5 & 7	
12B8(O)	12.6	7	73.0	73.0	8		40.0	2	B
12L8(O)	12.6	7	41.0	29.0	1, 2 & 6	W	No	TEST	
12OC(O)	12.6	7	68.0	60.0	8	W	60.0	2	B
12PC(O)	12.6	7	57.0	50.0	8		36.0	2	B
12PJ(O)	12.6	7	68.0	57.0	8		47.0	2	B
12KY(O)	12.6	7	68.0	58.0	8		50.0	2	B
12Q7(O)	12.6	7	65.0	53.0	8		45.0	2	B

BOTH SERIES		89 SERIES ONLY (INCLUDING 385)				85 SERIES ONLY			
TYPE	F.V.S.	F.R.S.	Q. S.		BUTTON	S. I.	Q. S.	BUTTON	S. I.
			"R" POT	"S" POT					
12SA7(O)	12.6	7	48.0	38.0	6	W	30.0	5	B
12SC7(O)	12.6	7	51.0	42.0	6	S & W	32.0	5	H
12SJ7(O)	12.6	7	55.0	48.0	5	W	40.0	6	B
12SK7(O)	12.6	7	61.0	51.0	5	W	42.0	6	B
12SQ7(O)	12.6	7	67.0	59.0	3	W	43.0	1	H
12Z3	12.6	7	43.0	30.0	3		25.0	1	
12Z5	12.6	7	41.0	26.0	3 & 5	Y	15.0	1 & 6	Y
14	14.0	7	68.5	57.5	4		51.5	5	
15	2.0	7	76.0	77.5	4		85.0	5	
17	14.0	7	69.0	59.5	4		55.0	5	
18	14.0	7	65.0	52.5	5		44.0	5	
19	2.0	7	67.5	55.0	F		46.0	3	
20	3.3	7	79.5	81.0	F		89.5	3	
22	3.3	7	81.0	81.0	F		100.0	3	
22(S)	14.0	7	69.5	59.0	F		94.0	3	
24(O)	2.5	7	69.0	58.0	8	W	57.5	2	B
24A	2.5	7	68.0	57.0	4		55.0	5	
25A6(O)	25.0	7	54.0	44.0	8	W	34.0	2	B
25A7(O)	25.0	7	44.0	30.0	1 & 8	W	54.0	2	B
25AC5(O)	25.0	7	63.0	52.0	8	W	42.0	2	B
25B5	25.0	7	68.0	55.0	F & 5		51.0	3 & 5	
25B6(O)	25.0	7	73.0	69.0	8		23.0	2	B
25L6(O)	25.0	7	40.0	24.0	8	W	15.0	2	B
25N6(O)	25.0	7	68.5	55.5	8	W	51.0	2	B
25X6(O)	25.0	7	40.0	29.0	4 & 8	W	20.0	2 & 7	B
25Y5	25.0	7	48.5	37.5	3 & 4		28.5	1 & 6	
25Z4(O)	25.0	7	37.0	24.0	8	Y	13.0	2	B
25Z5	25.0	7	37.0	20.0	3 & 4		9.0	1 & 6	
25Z5(O)	25.0	7	37.0	19.0	4 & 8	W	6.5	2 & 7	B
25Z6(O)	25.0	7	39.0	24.0	4 & 8	W	13.0	2 & 7	B
26	1.5	7	71.0	64.0	F		67.0	3	
26(S)	14.0	7	68.0	55.0	F		86.5	3	
27	2.5	7	69.0	59.5	4		57.0	5	
27(O)	2.5	7	69.0	58.5	8	W	59.0	2	B
29	2.5	7	69.0	61.0	5		49.0	5	
30	2.0	7	73.0	72.0	F		67.0	3	
30X	2.0	7	73.5	72.5	F		69.5	3	
30(S)	14.0	7	70.0	61.0	F		87.0	3	
31	2.0	7	72.0	70.0	F		69.0	3	
32	2.0	7	74.0	72.0	F		68.0	3	
32(S)	14.0	7	69.0	53.0	F		87.0	3	
32L7(O)	30.0	7	38.0	25.0	2 & 8	W	NO	TEST	
33	2.0	7	69.5	60.0	F		58.5	3	
34	2.0	7	74.0	74.5	F		70.5	3	
34(O)	2.0	7	72.0	71.0	F	W	72.0	3	B
35	2.5	7	68.5	57.0	4		53.5	5	
35A5(L)	30.0	1	48.0	38.0	7	I & S	27.0	5	D
35L6(O)	30.0	7	43.0	31.0	8	Y	29.0	2	B
35Z3(L)	30.0	1	40.0	28.0	7	I & S	19.0	5	D
35Z4(O)	30.0	7	40.0	25.0	8	Y	20.0	2	B
35Z5(O)	25.0	7	41.0	26.0	8	P & W	NO	TEST	
36	6.3	7	63.5	52.0	4		44.0	5	
37	6.3	7	68.0	55.0	4		50.5	5	

BOTH SERIES		89 SERIES ONLY (INCLUDING 385)					85 SERIES ONLY		
TYPE	F.V.S.	F.R.S.	Q.S.		BUTTON	S. I.	Q.S.	BUTTON	S. I.
			"R" POT	"S" POT					
38	6.3	7	69.0	59.5	4		57.0	5	
39	6.3	7	68.0	56.0	4		52.0	5	
40	5.0	7	72.5	70.5	F		71.5	3	
40(S)	14.0	7	66.0	54.0	F		82.0	3	
40Z5(O)	30.0	7	38.0	25.0	8	P & V	NO	TEST	
41	6.3	7	63.0	52.5	5		44.5	5	
41M(O)	6.3	7	63.0	52.5	8	W	44.5	2	B
42	6.3	7	66.0	51.5	5		46.5	5	
43	25.0	7	52.0	41.5	5		33.5	5	
43(O)	25.0	7	50.5	39.0	8	W	32.0	2	B
45	2.5	7	68.0	56.0	F		55.0	3	
46	2.5	7	68.0	54.0	F		51.5	3	
47	2.5	7	68.0	54.5	F		52.0	3	
48	30.0	7	47.0	35.0	5		28.0	5	
48(S)	14.0	7	60.5	57.0	F		36.5	3	
49	2.0	7	73.0	66.5	F		64.0	3	
50	7.5	7	71.5	67.0	F		69.0	3	
50L6(O)	50.0	7	73.0	76.0	8		NO	TEST	
51(O)	2.5	7	68.5	57.0	8	W	54.0	2	B
52	6.3	7	67.0	54.0	F		49.5	3	
53	2.5	7	48.5	33.5	4		30.5	7	
55	2.5	7	68.0	57.0	5		64.5	5	
55(O)	2.5	7	68.5	57.0	8	W	58.0	2	B
56	2.5	7	68.0	54.5	4		46.0	5	
56(O)	2.5	7	68.0	54.5	8	W	50.0	2	B
57	2.5	7	63.0	52.5	5		45.0	5	
57(O)	2.5	7	66.5	53.5	8	W	49.0	2	B
58	2.5	7	64.0	52.5	5		50.5	5	
58(O)	2.5	7	69.0	57.0	8	W	57.5	2	B
59	2.5	7	70.0	55.0	6		70.0	5	
59B	2.5	7	67.5	54.0	F		50.0	3	
69	6.3	7	68.5	55.5	5		50.5	5	
70	6.3	7	75.5	77.0	5		79.5	5	
70L7	3.3 HI	7	42.0	28.0	1 & 6		NO	TEST	
71A	5.0	7	68.5	57.5	F		57.0	3	
75	6.3	7	61.0	50.5	5		37.5	5	
75(O)	6.3	7	62.0	52.0	8	W	40.0	2	B
76	6.3	7	67.0	54.5	4		46.0	5	
77	6.3	7	66.0	53.0	5		43.5	5	
77(O)	6.3	7	68.0	54.5	8	W	47.0	2	B
77M(O)	6.3	7	65.0	53.5	8		47.0	2	B
78	6.3	7	68.0	65.5	5		49.0	5	
78(O)	6.3	7	69.0	57.5	8	W	53.0	2	B
79	6.3	7	47.5	36.0	4		28.0	6	
80	5.0	7	68.0	55.5	F		52.5	3	
80(O)	5.0	8	67.5	54.5	F		54.5	3	A
81	7.5	7	76.5	77.5	F		85.0	3	
82	2.5	7	22.5	8.0	F		55.0	3	
83	5.0	7	21.0	7.5	F		53.5	3	
83V	5.0	7	41.0	27.5	F		13.5	3	
85	6.3	7	65.0	55.0	5		48.0	5	
85(O)	6.3	7	68.0	56.0	8	W	51.5	2	B
86	6.3	7	68.0	55.5	4		46.5	5	
86M(O)	6.3	7	63.0	55.5	8	W	46.5	2	B



COMBINED 85 & 89 TUBE LISTS

BOTH SERIES		89 SERIES ONLY (INCLUDING 385)					85 SERIES ONLY		
TYPE	F.V.S.	F.R.S.	Q. S.		BUTTON	S.I.	Q.S.	BUTTON	S.I.
			"R" POT	"S" POT					
87S	6.3	7	61.0	52.0	5		42.5	5	
88(O)	6.3	7	65.0	53.0	8	W	45.0	2	B
88S	6.3	7	65.0	53.0	5		45.0	5	
89	6.3	7	67.5	54.5	5		46.5	5	
99	3.3	7	81.0	81.0	F		93.5	3	
121B	5.0	7	74.5	74.5	F		74.0	3	
181	3.3	7	72.0	70.0	F		62.0	3	
182B	5.0	7	69.0	58.0	F		60.0	3	
183	5.0	7	69.0	58.0	F		56.5	3	
205D	5.0	7	72.0	70.0	F	E	71.0	3	E
257	5.0	7	69.5	59.5	F		63.0	3	
401	3.3	7	71.0	65.0	F		59.0	3	
403	3.3	7	69.5	59.5	F		53.0	3	
484	3.3	7	63.5	52.0	4		42.5	5	
485	3.3	7	68.5	56.0	4		48.0	5	
486	3.3	7	74.5	75.5	F		74.5	3	
802	6.3	7	64.0	54.0	6		54.5	5	
807	6.3	7	66.0	56.0	4		60.0	5	
841	7.5	7	71.5	64.0	F		72.0	3	
842	7.5	7	74.0	72.0	F		81.0	3	
864	1.5	7	75.0	74.0	F	D	73.0	3	D
950	2.0	7	70.0	64.5	F		63.0	3	
1221	6.3	7	66.0	54.0	5		48.0	5	
1223(O)	6.3	7	68.5	55.0	8		48.0	2	B
1231(L)	6.3	1	62.0	52.0	7	I & S	20.0	5	D
1612(O)	6.3	7	51.0	40.0	8	W	35.0	2	B
1851(O)	6.3	7	44.0	33.0	3		19.0	2	B
1852(O)	6.3	7	40.5	25.0	5	W	27.0	6	B
1853(O)	6.3	7	40.0	30.0	5	W	30.0	6	B
7000(O)	6.3	7	67.0	56.0	8		50.0	2	B
7700	6.3	1	67.0	56.0	5		50.0	3	
GA	5.0	7	68.0	54.5	F		53.0	3	
KR22	6.3	7	63.0	52.0	5		43.0	5	
PA	6.3	7	69.0	55.0	4		46.5	5	
PZH	2.5	7	66.5	56.5	6		54.0	5	
R20	2.5	7	71.0	63.0	F		57.5	3	
R30	2.5	7	71.5	67.5	4		61.5	5	
R32	2.5	7	72.0	68.0	F		63.5	3	
R100	5.0	7	72.5	70.0	F		73.5	3	
R200	5.0	7	71.5	66.0	F		70.0	3	
RK24	2.0	7	71.0	63.5	F		60.0	3	
RK33	6.3	7	49.0	38.0	2 & 6		30.0	2 & 5	
WUND-A	2.5	7	69.0	58.5	5		53.5	5	
WUND-AB	6.3	7	69.0	59.0	5		54.5	5	

**SPECIAL MODERNIZATION NOTICE**

Due to the announcement of 35, 50, 70 and other high voltage filament type tubes, a change is necessary in older type Supreme testers to bring them up to date. We are happy to offer a moderate priced modernization program on many Supreme tube testers which also includes testing of all Loctal tubes.

Supreme 503's without the high voltage filament supply may be modernized for \$5.45, the exact difference between the original and present net prices. 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 501, 505-----	\$ 9.50
Model 500, 502, 502-S-----	\$10.00
Model 89-C, 89-S, 594-----	\$10.50
Model 400, 89-D, 89-DL, 506-C, 506-P---	\$11.00
Model 385, 385-L, 585-----	\$12.00
(Models 35, 85, 85-P, 85-PL, Standard Diagon- meter and all older Supreme Models cannot be Modernized)	

These prices include modernization for loctal and other hi-voltage filament type tubes and a careful check-over only. If other parts need replacement, they will be charged for at regular net prices. Transportation should be by Express. Transportation extra. Please do not fail to write us a separate letter advising us that the shipment is coming forward and send the letter sufficiently soon that it will arrive about two days before the shipment. This eliminates delays and allows us to give you the fastest service.

If your tester has been modernized by us, it will take care of all loctal, octal and non-octal tubes including 35, 50, 70 and higher filament voltage tubes.

Its operation is very simple. For all tubes except those showing the letters "HI" in the Filament Volts or in some other column of the listing, leave the "HI-LO" toggle switch in the "LO" position. In the "LO" position, all filament voltages read as indicated on your panel except 30 volts, which has been changed to 35 volts, and the blank switch position between the 1.5 volts and 35 volts position. This blank position is now for 50 volts.

With the "HI-LO" toggle switch in the "HI" position, available voltages are as follows:

<u>PANEL READINGS</u>	<u>ACTUAL VOLTAGES</u>
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
30.0-----	Line Voltage

Care should be exercised to keep the "HI-LO" switch in the "LO" position except when testing tubes having over 50 volt filaments.

SPECIAL PILOT LIGHT SOCKET. Set "F.V.S." to voltage of pilot light. Set "F.R.S." to #1. For Model 500, 505, 585 and 400, throw up #7 switch. For other testers leave all switches down. Special pilot light socket only included on Supreme Instruments with metal panels.

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 tube 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	2A3H	2A3	6D8G	6D8	6N7G	6N7	24S	24A
01	01A	2A6S	2A6	6F5G	6F5	6N7MG	6N7	25	1B5
01AA	01B	2A7S	2A7	6F5GT	6F5	6Q7S	6Q7	25S	1B5
1	1V	2B7S	2B7	6F5MG	6F5	6Q7GT	6Q7	25A6G	25A6
1A4P	1A4	2G5	2E5	6F6G	6F6	6Q7MG	6Q7	25A6GT	25A6
1A4T	1A4	4S	2S	6F6M	6F6	6R7G	6R7	25A6MG	25A6
1A6S	1A6	5V4G	5V4	6F6MG	6F6	6R7MG	6R7	25A7G	25A7
1B4P	1B4	5W4G	5W4	6F7S	6F7	6S7G	6S7	25B6G	25B6
1B4T	1B4	5X4G	5X4	6F8G	6F8	6T7G	6T7	25L6G	25L6
1C6S	1C6	5Y3G	5Y3	6G6G	6G6	6V7G	6V7	25L6GT	25L6
1C7G	1C7	5Y4G	5Y4	6G7S	6G7	6W7G	6W7	25X6GT	25X6
1D5G	1D5	5Z4G	5Z4	6H6G	6H6	6X5G	6X5	25Z5MG	25Z5
1D5GP	1D5	5Z4MG	5Z4	6H6MG	6H6	6X5MG	6X5	25Z6G	25Z6
1D5GT	1D5	6A7M	6A8	6H7S	6H7	6X7G	6X7	25Z6GT	25Z6
1D7G	1D7	6A7S	6A7	6H7M	6H7	6Y5G	6Y5	27HM	56
1E4G	1E4	6A8G	6A8	6J5G	6J5	6Y6G	6Y6	27S	27
1E5G	1E5	6A8GT	6A8	6J7G	6J7	6Y7G	6Y7	32S	32
1E5GP	1E5	6A8MG	6A8	6J7GT	6J7	6Z3	1V	32L7GT	32L7
1E5GT	1E5	6A8GG	6A8G	6J7MG	6J7	6ZY5G	6ZY5	33S	33
1E7G	1E7	6AC5G	6AC5	6K5G	6K5	6Z7G	6Z7	34S	34
1E5G	1E5	6AC5GT	6AC5	6K6G	6K6	12A8GT	12A8	35S	35
1F7G	1F7	6B4G	6B4	6K6GT	6K6	12B8GT	12B8	35(O)	51
1G4G	1G4	6B6G	6B6	6K7G	6K7	12F5GT	12F5	35L6GT	35L6
1G5G	1G5	6B6M	6B6	6K7GT	6K7	12J7GT	12J7	35Z4GT	35Z4
1G6G	1G6	6B7M	6B8	6K7M	6K7	12K7GT	12K7	35Z5GT	35Z5
1H4G	1H4	6B7S	6B7	6K7MG	6K7	12Q7GT	12Q7	36A	36
1H5G	1H5	6B8G	6B8	6K8GT	6K8	13	80	37A	37
1H6G	1H6	6C5G	6C5	6L5G	6L5	13B	80	38A	38
1J5G	1J5	6C5MG	6C5	6L6G	6L6	14Z3	12Z3	39A	39
1J6G	1J6	6C8G	6C8	6L7G	6L7	16	81	40Z5GT	40Z5
1N5G	1N5	6D5G	6D5	6L7MG	6L7	16B	81	41S	41
1Q5G	1Q5	6D5MG	6D5	6N6G	6N6	24(N-0)	24A	42S	42

TUBE TYPE	SEE	TUBE TYPE	SEE	TUBE TYPE	SEE	TUBE TYPE	SEE	TUBE (TT ALL #3) TYPE	SEE
43C	43	136A	36	336	36	AF	82		
43MG	43	137A	37	337	37	AG	83		
44	39	138A	38	338	38	AX	01A		
46S	46	139A	39	340	40	B	99		
47S	47	145	45	345	45	BX	99		
50L6GT	50L6	147	47	347	47	D <sub>1</sub>	81		
51(M-)	35	150	50	350	50	D1	80		
51S	35	171A	71A	371A	71A	DE1	27		
55S	55	180	80	380	80	DV2	01A		
56A	76	182A	71A	381	81	DV5	01A		
56AS	76	200	00A	400A	00A	E	20		
56S	56	200A	00A	401A	01A	G	40		
57A	6C6	201	01A	410	10	G2	2S		
57AS	6D6	201A	01A	412A	12A	G2S	2S		
57S	57	210	10	420	20	G4	2S		
58A	6C6	210T	10	422	22	G4S	2S		
58AS	6D6	213	80	424	24A	G4Q	40		
58S	58	213B	80	424A	24A	G8	2Z2		
59S	59	216	81	426	26	H	00A		
64	36	216B	81	427	27	H250	1345		
64A	36	220	20	430	30	K24	24A		
65	39	222	22	431	31	K27	27		
65A	39	224A	24A	432	32	KR1	31.5		
67A	37	226	26	433	33	KR5	61.4		
67A	37	227	27	434	34	KR25	24.5		
68	38	230	30	435	35	KR28	62.4		
68A	38	231	31	436	36	KR31	6Z3		
70L7GT	70L7	232	32	437	37	KR38	3Z4		
71	71A	233	33	438	38	L	6A4		
71B	71A	234	34	439	39	PBC1	6Z4		
75S	75	235	35	440	40	RZ	47		
78S	78	236	36	441	41	R45	45		
80M	83	237	37	442	42	RL1	80		
81M	81	238	38	444	39	RL2	81		
84	6Z4	240	40	445	45	S02	50		
84S	6Z4	245	45	446	46	X140	40		
85AS	85	247	47	447	47				
85S	85	250	50	450	50				
86S	86	280	80	456	56				
88	83	281	80	457	57				
89RS	6G7	300	00A	458	58				
89S	89	300A	00A	471A	71A				
95	2A5	301	01A	480	30				
96	6Z3	301A	01A	481	31				
98	6Z4	310	10	482	32				
101A	01A	313	80	482A	71A				
110	10	313B	80	482B	102B				
112	12A	316	81	483	183				
120	20	316B	81	484A	484				
122	22	322	22	551	35				
124	24A	324A	24A	551S	35				
126	26	326	26	585	50				
127	27	327	27	586	50				
130	30	330	30	686	486				
131	31	331	31	951	32				
132	32	332	32	985	6Z4				
133	33	333	33	986	83				
134	34	334	34	AC22	24A				
135	35	335	35	AD	6Z3				

### Resistance (ballast) tubes

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	46B1S	140R44	270R	K49Y	L49BX
1B1	49A1	164A	270R4	K52H	L49C
1C1	49A2	165KB	270R8	K55A	L49CJ
1D1	49B2	165KC	878R48	K55B	L49D
1E1	50	165L4	1916	K55C	L49DJ
1F1	50A2	165L8	3326	K55CP	L49E
1G1	50A2MG	165L44	3334A	K55CPR	L49S3
1K1	50B2	165LB	3613	K55D	L55-5.5E
1R1G	50B2MG	165LC	8593	K55E	L55B
1T1G	50MG	165M4	8597	K55F	L55C
1Y1	50W	165M8	8600	K55G	L55CP
1Z1	50X3	165R	8601	K55H	L55CPR
2	50X3T	165R4	8663	K55J	L55D
2LR-212	50X300	165R8	8664	K67B	L55S1
2UR-215	55A	165R44	81,963	K74B	L55S2
2UR-224	55A1	185A	BK42D	K74C	L55S3
3	55A2	185KB	BK49D	K75B	L75CC
3.25	55B2	185KC	BL42D	K78B	L75-C.C
3CR-241	60R30	185L4	BM36C	K79B	L80B
3ER-248	50R30G	185L8	BM42C	K80A	L80C
3MR-253	64.23	185L44	BM49B	K80B	L100D
4	69.2033	185LB	BM49C	K80C	M36B
5	69.2037	185LC	BM55B	K87B	M36C
5B	80A	185M4	BM80B	K90B	M42B
6	85-L-75CC	185M8	C9266	K90C	M42C
6.125	90A	185R	EK249	K90F	M42D
6.126	100.37	185R4	FL49C	K92B	M42H
6.128	100.38	185R8	BL55C	K95B	M52H
6.129	115.14	185R44	K22C	L36B	M55B
6.130	115.17	245A	K22E	L36C	M55C
6B	115.17S	245KB	K23C	L36D	M55D
7	115.18	245KC	K36A	L36DJ	M55H
8	115.19	250A	K36B	L40E	M80B
9	115.20	250KB	K36C	L40S2	M80C
10.610	115.22	250KC	K38B2	L42B	W40C55
32	140A	250L4	K40X	L42BS	W42520
36A	140KB	250L8	K40Y	L42BX	W43357
40	140KC	250M4	K42B	L42C	W43506
40A2	140L4	250M8	K42C	L42CJ	X780-275
40B2	140L8	250R	K42D	L42D	X787-235
40W	140L44	250R4	K42E	L42DJ	
40X300	140M4	250R8	K49B	L42DSX	
45W	140M8	270L4	K49C	L42DX	
46A1	140R	270L8	K49D	L49-5.5C	
46A1S	140R4	270M4	K49E	L49-5.5E	
46B1	140R8	270M8	K49X	L49B	

TUBE BASE CONNECTION FINDER FOR ALL SUPREME INSTRUMENTS MODELS

THIS LIST SUPERSEDES ALL PREVIOUS LISTS

ASK FOR SUPPLEMENT TO TUBE BASE CONNECTION FINDER ISSUED 6-1-39

WHEN INQUIRING REGARDING NEW TUBE LISTINGS

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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	G - Grid (See next paragraph)
D - Diode Plate	FM - Filament Mid-Tap
G - Grid	SA - Starter Anode
	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 connection 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.



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TUBE BASE CONNECTIONS

T.B. - #3  
6-1-39

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(O						A		Sa		
0Z3					K					
0Z4(O		S				P			K	
1A4		F	P	G	F					G1
1A5(O						G		F		
1A6		F	P	G	G-5	G-5	F			G4
1A7(O					G-5	G-5	G	F		G4
1B4		F	P	G	F					G1
1B5		F	P	G	F					
1C5(O						G		F		
1C6		F	P	G	G-5	G-5	F			G4
1C7(O		S			G-5	G	G	F		G4
1D6(O		S			G-5	G		F		G1
1D7(O		S			G-5	G	G	F		G4
1E4(O		S				G		F		
1E5(O		S				G		F		G1
1E7(O	11	S			G-5	G-b	Pb	F	G	
1F4	11	F	P	G	G	F				
1F5(O		S			G	G		F		
1F6	11	F	P	G	D	D	F			G1
1F7(O		S			D	D	G	F		G1
1G4(O						G		F		
1G5(O		S			G	G		F		
1G6(O						G	PA	F		
1H4(O		S				G		F		
1H5(O						D		F		G
1H6(O		S			D	D	G	F		
1J5(O						G		F		
1J6(O		S			G	G	Pb	F		
1N5(O						G		F		G1
1N6(O						G	D	F		
1Q5(O						G		F		
1-V		H	P	K	H					
2A3		F	P	G	F					
2A5	3	H	P	G	G	K G-3	H			
2A6		H	P	D	D	D	H			G
2A6(O		S			D	D		H	K	G
2A7		H	P	G-5	G	G	K	H		G4
2B6		H	P	Pb	G	Ka-Gb	Kb	H		
2B7	3	H	P	G	D	D	K-G3	H		G1
2E5		H	P	G	F	K	H			
2S		H	P	Pb	F	H				
2W3(O		S			P	P		F		
2X3(O					P	P		F		
2Y2		H	P		H					P
2Y4		H	P	Pb	K	H				
2Z2		F	P		F					
4A6(O				Pb	G	Gb	Pb	F	FM	
5T4(O		S			Pb		Pb	H		
5U4(O		S			Pb		Pb	F		
5V4(O		S			Pb		Pb	F		



- TYPE	SPEC INST	1	2	3	4	5	6	7	8	TC
5W4 (O		S	F		Pa		Pb		F	
5X3		F	P	P						
5X4 (O		S		Pa		Pb		F	F	
5Y3 (O		S	H		Pa		Pb		H	
5Y4 (O		S		Pa		Pb		F	F	
5Z3		F	Pa	Pb	F					
5Z4 (O		F	H		Pa		Pb		HK	
6A3		F	P	G	F					
6A4	1	F	P	G1	G2	F				
6A5 (O	4	S		P		G		H	K	
6A6		H	Pa	Ga	K	Gb	Pb	H		
6A7		H	P	G3-5	G2	G1	K	H		G4
6A7M (O		S	H	P	G3	G1	G2	H	K	G4
6A8 (O		S	H	P	G3-5	G1	G2	H	K	G4
6AB5		H	P	G	T	K	H			
6AB6 (O		S	H	P2	P1	G1		H	K	
6AC5 (O			H	P		G		H	K	
6AC6 (O	14		H	P2	P1	G1		H	K2	
6AD5 (O			H	G		P		H	K	
6AD6 (O			H	CONTROL	ELEC	T		H	K	
6AE5 (O			H	P		G		H	K	
6AE6 (O			H	P1	P2	G		H	K	
6AF6 (O			H	CONTROL	ELEC	T		H	K	
6B4 (O		S	F	P		G		F		
6B5	2	H	Pa	Pb	Gb	Ka	H			
6B6		H	Pa	Pb	Gb	Kb-Ga	Ka	H		
6B6 (O		S	H	P	D	D		H	K	G
6B7	3	H	P	G2	D	D	K	H		G1
6B8 (O		S	H	P	D	D	G2	H	K	G1
6D5 (O		S	H	P		G		H	K	
6D6		H	P	G2	G3	K	H			G1
6C7		H	P	XS	D	D	K	H		G
6C8 (O		S	H	Pa	K	Gb	Pb	H	K	Ga
6C5 (O		S	H	P		G		H	K	
6D6		H	P	G2	G3	K	H			G1
6D7		H	P	G2	G3	XS	K	H		G1
6D8 (O		S	H	P	G3-5	G1	G2	H	K	G4
6E5		H	P	G	T	K	H			
6E6		H	Pa	Ga	K	Gb	Pb	H		
6E7		H	P	G2	G3	XS	K	H		G1
6F5 (O	5	S	H		P			H	K	G
6F5 (O	6	S	H	P		G		H	K	
6F6 (O	7	S	H	P	G2	G1		H	K	
6F7	3	H	Pa	G2a	Pb	G1b	K-G3a	H		G1a
6F7 (O		S	H	Pb	Gb2	Pa	Ga	H	K	Gb1
6F8 (O			H	Pa	Ka	Gb	Pb	H	Kb	Ga
6G5		H	P	G	T	K	H			
6G6 (O			H	P	G2	G1		H	K	
6G7S		H		G2-Kb	Pb	G2-Ka	Pa	H		G1
6H6 (O		S	H	Pa	Ka	Pb		H	Kb	
6H7M (O		S	H	Pa	G2a	G1a	Pb	H	K-G3	G1b
6H7S	8	H	Pa	G2a	G1a	Pb	K	H		G1b
6J6 (O		S	H	P		G		H	K	
6J7 (O		S	H	P	G2	G3		H	K	G1
6J8 (O			H	Pa	G2a-4a	G1b-3a	Pb	H	K-G5a	G1a
6K5 (O		S	H	P				H	K	G
6K6 (O		S	H	P	G2	G1		H	K	
6K7 (O		S	H	P	G2	G3		H	K	G1
6K8 (O		S	H	Pa	G2a-4a	G1b-3a	Pb	H	K-G5a	G1a

SPEC		T. B. - 6-1-39								
TYPE	INST	1	2	3	4	5	6	7	8	TC
6L5 (0)		S	H	P		G		H	K	
6L6 (0)		S	H	P	G2	G1		H	K	
6L7 (0)		S	H	P	G2-4	G3		H	K-G5	G1
6N5		H	P	G	T	K	H			
6N6(0)	8	S	H	Pa	Pb	G1b		H	K	
6N7(0)		S	H	Pa	Ga	Gb	Pb	H	K	
6P5(0)			H	P		G1		H	K	
6P7(0)		S	H	H	Pa	G2	Pb	G1b	K-G3	G1a
6Q6(0)		S	H	P		D		H	K	
6Q7(0)		S	H	P	D	D		H	K	G
6R6(0)			H	G2		P		H	K	G1
6R7(0)		S	H	P	D	D		H	K	G
6S7(0)		S	H	P	G2	G3		H	K	G1
6SA7(0)		S	H	P-	G2-4	G1	K	G3		
6SC7(0)		S	Pa	Ga	Gb	Pb	K	H	H	
6SF5(0)		S	K	G		P		H	H	
6SJ7(0)		S	H	G3	G1	K	G2	H	P	
6SK7(0)		S	H	G3	G1	K	G2	H	P	
6SQ7(0)		S	G	K	D	D	P	H	H	
6T5		H	P	G	T	K	H			
6T7(0)		S	H	P	D	D		H	K	G
6U5		H	P	G	T	K	H			
6U7(0)		S	H	P	G2	G3		H	K	G1
6V6(0)		S	H	P	G2	G1		H	K	
6V7(0)		S	H	P	D	D		H	K	G
6W5(0)			H	P		P		H	K	
6W7(0)			H	P	G2	G3		H	K	G1
6X5(0)		S	H	Pa		Pb		H	K	
6X6(0)		S	H	PTV	T	G	Kt	H	K	
6Y5		H	X3	Pa	K	Pb	H			
6Y5V		H	Xs	Pa	K	Pb	H			
6Y6(0)			H	P	G2	G1		H	K	
6Y7(0)		S	H	Pa	Ga	Gb	Pb	H	K	
6Z4		H	Pa	Pb	K	H				
6Z5	HC		H	Pa	K	Pb	H			
6ZY5(0)		S	H	Pa		Pb		H	K	
6Z6(0)		S	H	Pa	Ka	Pb		H	Kb	
6Z7(0)			H	P1	G1	G2	P2	H	K	
7A4(L)		H	P				G	K	H	
7A6(L)		H	Ka	Pa		IS	Pb	Kb	H	
7A7(L)		H	P	G2	G3	S	G	K	H	
7A8(L)		H	P	G2	G1	G3	G4	K-G5	H	
7B5(L)		H	P	G2			G1	K	H	
7B6(L)	13	H	P	G	K	D1	D2	K	H	
7B7(L)		H	P	G2	G3	IS	G1	K	H	
7B8(L)		H	P	G2	G1	G2	G4	K	H	
7C5(L)		H	P	G2			G1	K	H	
7C6(L)	13	H	P	G	K	D1	D2	K	H	
7C7(L)		H	P	G2	G3	IS	G1	K	H	
7E6(L)		H	P	G	K	D	D	K	H	
7Y4(L)		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(0)		S	H	P	G3-5	G1	G2	H	K	G4
12B8(0)		Ka	H	Pa	G2a	Pb	Kb	H	Gb	G1a

TYPE	SPEC INST	T.B. - 6 6-1-39								
		1	2	3	4	5	6	7	8	TC
12C8(O		S	H	P	D	D	G2	H	K	G1
12F5(O			H		P			H	K	G
12J7(O		S	H	P	G2	G3		H	K	G1
12K7(O		S	H	P	G2	G3		H	K	G1
12Q7(O			H	P	D1	D2		H	K	G
12SA7(O		S	H	P	G2-4	G1	K	H	G3	
12SC7(O		S	H	Ga	Gb	Pb	K	H	H	
12SJ7(O		S	H	G3	G1	K	G2	H	P	
12SK7(O		S	H	G3	G1	K	G2	H	P	
12SQ7(O		S	H	K	D	D	P	H	H	
12Z3		H	P	K	H					
12Z5		H	P	Kc	HC	Kb	Pb	H		
14		H	P	G2	K	H				G1
15	3	H	P	G2	K-G3	H				G1
17		H	P	G	K	H				
18	3	H	P	G2	G	K-G3	H			
19		H	P	Ga	Gb	Pb	F			
20		H	P	G	F					
22		H	P	G2	F					G1
22S		H	P	G2	F					G1
24(O		S	H	P		G2		H	K	G1
24A		H	P	G2	K	H				G1
25A6(O	3	S	H	P	G2	G1		H	K-G3	
25A7(O	3	Kb	H	Pa	G2a	G1a	Pb	H	Ka-G3a	
25AC5(O			H	P	P	G		H	K	
25B5		H	P	Pb	G	K	H			
25B6(O		S	H	P	G2	G1		H	K	
25L6(O		S	H	P	G2	G1		H	K	
25N6(O		S	H	Pa	Pb	G		H	K	
25X6(O		S	H	Pa	Ka	Pb		H	Kb	
25Y4(O	13	S	H			P		H	K	
25Y5		H	P	Ka	Kb	Pb	H			
25Z4(O		S	H			P		H	K	
25Z5		H	P	Ka	Kb	Pb	H			
25Z5(O		S	H	Pb	Kb	Pa		H	Ka	
25Z6(O		S	H	Pa	Ka	Pb		H	Kb	
26		H	P	G	F					
26(S)		H	P	G	F					
27		H	P	G	K		H			
27(O		S	H			G		H	K	
29		H	P	Ga	Gb	K	H			
30		H	P	G	F					
30X		H	P	G	F					P
30(S)		H	P	G	F					
31		H	P	G	F					
32		H	P	G2	F					G1
32(S)		H	P	G	F					
32L7(O		Kb	H	Pa	G2a	G1a	Pb	H	Ka	
33	11	H	P	G1	G2	F-G3				
34	1	H	P	G2	F					G1
34(O		S	H	P	G2			F		G1
35		H	P	G2	K	H				G1
35A5(L		H	P	G2			G1	K	H	
35L6(O			H	P	G2	G1		H	K	
35Z3(L		H	P					H	K	
35Z4(O			H	P		P		H	K	
35Z5(O	15	S	H	Hb		P		H	K	
36		H	P							

TYPE	SPEC INST	1	2	3	4	5	6	7	8	TC
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					
40(S)		F	P	G	F					
40Z5(O)	15	S	H	HP		P		H	K	
41	3	H	P	G2	G1	K-G3	H			
41M(O)		S	H	F	G2	G1		H	K-G3	
42	3	H	P	G2	G1	K-G3	H			
43	3	H	P	G2	G1	K-G3	H			
43(O)		S	H	F	G2	G1		H	K	
45		F	P	G	F					
46		F	P	G1	G2	F				
47	1	F	P	G1	G2	F				
48		H	P	G2	G1	K	H			
48(S)		F	P	G	F					
49		F	P	G1	G2	F				
50		F	P	G	F					
50L6(O)		S	H	F	G2	G1		H	K	
51(O)		S	H	F	G2	G2		H	K	G1
52		H	P	G1	G2	F				
53		H	P	G2	K	Gb	Pb	H		
55		H	P	D	D	K	H			G
55(O)		S	H	F	D	D	H		K	G
56		S	H	G	K	H				
56(O)		S	H	F	K	G		H	K	
57		H	P	G2	G3	K	H			G1
57(O)		S	H	F	G2	G3		H	K	G1
58		H	P	G2	G3	K	H			G1
58(O)		S	H	F	G2	G3		H	K	G1
59		H	P	G2	G1	G3	K	H		
59B		F	P	G2	G1	G3		F		
69		H	P	G2	Gb	K	H			
70		H	P	G2	Gb	K	H			
70L7(O)		K <sub>b</sub>	H	F <sub>b</sub>	G2 <sub>b</sub>	G1	K	H	Pa	
71A		F	P	G	F					
75		H	P	D	D	K	H			G1
75(O)		S	H	F	D	D		H	K	G
76		H	P	G	K	H				
77		H	P	G2	G3	K	H			G1
77(O)		S	H	F	G2	G3		H	K	G1
77M(O)		S	H	F	G2	G3		H	K	G1
78		H	P	G2	G3	K	H			G1
78(O)		S	H	F	G2	G3		H	K	G1
79		H	Pa	G <sub>a</sub>	K	Pb	H			G <sub>b</sub>
80		F	Pa	P <sub>b</sub>	F					
80(O)		S	H	F	Pa		Pb		F	
81		F	P		F					
82		F	Pa	P <sub>b</sub>	F					
83		F	Pa	P <sub>b</sub>	F					
83V	4	F	Pa	P <sub>b</sub>	F					
85		H	P	D	D	K	H			G
85(O)		S	H	F	D	D		H	K	G
86		H	P	G	K	H				
86M(O)		S	H	F	K	G		H	K	
87S		H	P	G2	G3	K	H			G1
88(O)		S	H	F	G2	G3		H	K	G1
88B		H	P	G2	G3	K	H			G1

TYPE	SPEC INST							T. B. -8 6-1-39		
		1	2	3	4	5	6	7	8	TC
89		H	P	G2	G3	K	H			G1
99		F	P	G	F					
121B		F	P	G	F					
181	9	F	P	G	K					
182B		F	P	G	F					
183		F	P	G	F					
205D		F	P	G	F					
257	1	F	P	G	G	F				
301	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(O			H	P		G		H	K	
885		H	P	G	K	H				
950		F	P	G	G2	F				
1221		H	P	G2	G3	K	H			G1
1223(O		S	H	P	G2	G3		H	K	G1
1231(O		S	P	G2	G3	S	G1	K	H	
1612(O		S	H	P	G2-4	G3		H	K-G5	G1
1851(O		S	H	P	G2	G3		H	K	G1
1852(O		S	H	G3	G1	K	G2	H	P	
1853(O		S	H	G3	G1	K	G2	H	P	
7000(O			H	P	G2	G3		H	K	G1
7700		H	P	G2	G3	K	H			G1
B A		Pa	K		Pb					
BH		Pa	K		Pb					
BR		K	JUM	PER	P					
GA		F	P	G1	G2	F				
KR22		H	P	Ga	Gb	K	H			
PA		H	P	G2	K	H				G1
PZM		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			Ka	Pa	Gb	Pb	Kb	H		Ga
VR90			K			A				
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-B	6	H	P	Ga	Gb	K	H			
WUND-AB		H	P	G1a	G1b	K	H			
WX-12		F	P	G	F					



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