Tube Test Data For

CONAR

Tube Tester

Models 221 - 223 - 224



1744 ROCKAWAY AVE

HEWLETT, L.I., N.Y. 11557

CONAR TUBE TESTER CONDENSED OPERATING INSTRUCTIONS

- 1. Plug in the tester to a commercial 120 VAC line.
- 2. Locate the tube to be tested in the Tube Data Manual.
- 3. Set the A, B, and D controls as indicated.
- 4. Insert the tube into the proper socket.
- 5. Turn the Line Adjust control for a center-scale reading on the meter (Adjust Line).
- 6. Check filament (heater) continuity by moving the Lever switch listed under "C" in tube data to the TEST position. The lamp must light if the filament is good. If the lamp lights, place the Lever switch in the "C" (up) position and readjust the ADJUST LINE control.
- 7. Test for cathode shorts by placing the Lever switch(es) listed under CATH SHORTS to the TEST position. The lamp must NOT light. Return the switch(es) to the NORMAL position.
- 8. Test for element continuity by placing the Lever switches disted under CONT TEST (if any) one by one in the TEST position and then return the switches to the NORMAL position. The lamp should light for each switch designated.
- 9. Place each Lever switch indicated in the TEST column in the TEST position. The lamp must NOT light for any of these switches. Leave all switches in the TEST position.
- 10. If the tube passes all of the above tests, press the red pushbutton switch to read the relative condition of the tube on the meter.
- 11. Refer to the Operating Manual for more detailed instructions.

KEY TO LETTER ABBREVIATIONS INDICATING TUBE SECTION UNDER TEST

	a—Amp. h—Heptode d—Diode he—Hexode e—Eye i—Input	o-Ou p-Pl pe-Pe	ate	r—Rectifier te—Tetrode s—Section to—Total t—Triode
TUBE	CATH A B C D SHORTS	TEST	TEST	CATH A B C D SHORTS TEST
OA4	4 18 - 14 2 p 4 18 - 16 4	5 2	1DG3	4 1 3-5 80 10 No short test
03 3;	p 4 18 - 16 4 p 4 18 - 16 4 Cont test 1-8	3	" 1DK1	Good tube reads above 20 1 2 4 95 10
OZ4	p 4 18 - 16 8	3 5	11	Insert bottom leads into pins 4&5 of 9 pin socket.
1	[*] 3 8 1 20 3	2 10	" 1DK29	Cap goes to top lead. 1 2 4 95 10
1AD2	*3-9-12	10	111129	Insert bottom leads into pins
1AH5	Cont test 1-2-5-6-7-8-11 pe 2 2 7 36	4-5-6	11	4&5 of 9 pin socket. Cap goes to top lead.
1AJ4	â 1 2 7 20 2 2 7 20	2-3-6	1DN 5	pe 2 2 1 26 2-3-6 d 1 2 1 66 4 2 2 2 20 3-5
1AN5	Cont test 1-5 2 2 7 18	2-3-4-6	1E4 1G3	4 2 2 42 10
1AU2	Cont test 1-5 r 4 2 4 60	1-9	1H5	d 1 2 2 16 5 3-10
1AX2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10	1Н3 5	2 2 7 20 * *2-3-4-5-6
1†	*2-5-8 Cont test 1-4-6-9		1 J3 1 K3	4 2 2 70 10 4 2 2 94 10
1AY2	4 2 1 34 Insert tube into pins 1&6	of	1N2 1R5	4 2 2 74 10 1 2 7 10 2-3-4-6
1B3	9 pin socket 4 2 2 44	10	1RK23	Cont test 1-5 4 2 * 34 10
1B8	d 1 2 2 16 t 2 2 2 24	8 6-10	1+	*2-5-8 4 2 2-5-8 40 10
" 1BC2	pe 2 2 2 20 4 2 5-8 34	3-4-5 10	1RK41	Must show short on 3-7
1002	Cont test 1-4-6-9 Good tube reads above 20	20	152	Cont. test 1-4-6-9 4 2 * 34 10
1BG2	1 2 4 95	10	71	*2-5-8 Cont test 1-4-6-9
#1 ##	Insert bottom leads into p 4&5 of 9 pin socket	11112	1S4	2 2 7 28 2-3-4-6 Ignore glow on 2
18 Ķ2	Cap goes to top lead 4 2 2-5-8 40	10	" 135	Cont test 1-2-5-6 pe 1 2 1 10 4-5-6
ŧ#	Must show short on 3-7 Cont. test 1-4-6-9	4.0	1T4	d 1 2 1 20 3 2 2 7 20 2-3-6
1BQ2	4 2 * 44 *2-5-8	10	" 1U4	Cont test 1-5 2 2 7 20 2-3-6
1BX2	Cont.test 1-4-6-9 4 2 2-5-8 40	10	" 1U5	Cont test 1-5 pe 2 2 1 22 2-3-6
1BY2	Cont. test 1-2-4-5-6-8-9 4 2 * 58	10	1V2	d 1 2 1 20 4 1 1 4 76 1-8-9
17	*8-12 - No short test Good tube reads above 30		71	Must show short on 1-9 Ignore glow on 1-8
1C2	2 2 7 16 *2-3-4-5-6	*	1X2	Good tube reads above 20 4 2 * 40 10
1C3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3-4-5 *	11	*2-5-8 Cont test 1-2-4-5-6-8-9
1C5	*2-3-4-5-6 2 2 2 18	3-4-5	2A3	3 4 1 20 2-3 4 4 * 50 10
1D13	d 1 2 1 16 3 Must show short on 2	2-6	2А <u>ң</u> 2	*3-9-12
	PROCESION SHOLD ON B		•	Cont test 1-2-5-6-7-8-11

TUBE	A B C D	CATH SHORTS	TEST	TEST	A B	С	D S	CATH SHORTS	TEST
2AS2	4 4 * 30 *3-8-12		10	2X3 2Y3	3 4 3 4		30 28		4
2Å V2	No short test 4 3 4 36		1-9	2Z2 3A3	3 4 4 5	2	40 32	-	2 10
2AZ2	Ignore glow on 1 Cont test 1-9 4 3 * 36		10	3AĻ5	Good tube d 1 5 d 1 5	3	12 12 12	/e 20 1 5	7 2
91 91	*2-5-8 Cont test 1-6-9	:		3A <u>T</u> 2 "	4 5 *8-12	*	46		10
2BA2	4 3 4 28 Ignore glow on 1 Cont test 1-9		1-9	3AU6 3AV6	Cont test 3 5 t 3 5	3	5-6-8 14 22	-9-12 7 2	1-2-5-6 1-7
2BJ2 ''	4 3 * 36 *2-5-8		10	11	d 1 5 d 1 5	3	16 16	2	5 6
2BN4	Cont test 1-4-6-9 2 3 3 14 Ignore glow on 2	1-6	2-5-7	3AW2 3AW3	4 5 *8-12 - Cor 4 5	nt tes	26 st 2-5 58	5-6-9	10 10
2B <u>ü</u> 2	Cont test 1-2-6-7 4 3 * 30	**	10	3BC5	2 5 Cont test	3 2-7		2-7	1-5-6
91 11	*8-12 **1-2-5-7-9 Cont test 1-2-5-7-8	-9-12		3B <u>E</u> 6 3BH2▲	to 2 5 t 2 5 4 4	3	16 18 31	2	1-5-6-7 1-6 10
2CN3	4 2 2 30 Cont test 3-5		10	" 3BL2	*2-4-8 4 5		50		10
2CW4 2CY 5 2DL4	1 3 10 10 2 4 3 14 2 3 4 16	8 2-7 2	2-4 1-5-6 *	;; 3BM2	*8-12 Cont test 4 5	1-2-5	-6-9 22		10
11 -	*1-3-6-7-8-9 Ignore glow on 1-3-	6-7-8)† †1	*8-12 Cont test				10
2DS4 2DV4	Cont test 1-3-6-7-9 1 3 10 8 1 3 10 8	8	2-4 -2-4-6	3BN2 "	4 5 *8-12 Cont test	*	34		10
2DZ4	Ignore glow on 1-4 3 4 4 16	·	-2-6-7	3BN4	2 4 Ignore glo	3 ow on	14	1-6	2-5-7
2EG4 2EV 5	Cont test 1-7 & 2-6 1 2 10 10 3 3 3 26	8 2-7	2-4 1-5-6	3BN6 3BS2	Cont test 4 5 4 5	2-7 3 *	38 28	1	2-5-6-7 10
2F#5	Cont test 2-7 2 4 3 14	1-7	2-5	11	*8-12 Cont test	2-5-6	-9		
2FQ5	Cont test 1-7 2 4 3 12 Cont test 1-7	1-7	2-5	3BT2 "	4 4 *8-12 **1-2-5-6-9	*	37	**	10
2FS5	2 4 3 14 Cont test 2-7	2-7	1-5-6	3BU8	Cont test 2 5	4	14	9-12 1	2-7-8-9
2FV6 2FY5	2 4 3 14 2 4 3 14 Cont test 1-7	7 1-7	1-5-6 2-5	": 3B w2	2 5 4 4 *8-12	4 *	14 37	**	2-3-6-7 10
2GK5	2 4 3 14 Cont test 1-7	1-7	2-5	77	**1-2-5-6-9 Cont test			9-12	
2GŲ 5 2GV 5	2 4 4 14 Cont test 2-7 t 2 4 3 16	2-7 5	1-5-6 1-2-6	3B <u>Y</u> 6 3BY7	3 5 3 5 2 5	3 3 4	16 16 14	2 1-3	1-6 1-5-6-7 2-7-8
2HA 5	Ignore glow on 2 3 4 4 14	2-7	1-5	3BZ6	Cont test 2 5	1-3 3	14	2	1-5-6-7
2нқ5	Cont test 2-7 2 4 4 14 Cont test 2-7	2-7	1-5	3CA3 3CB6 3CE5	d 4 5 2 5 2 5	2 3 3	45 14 14	2 2-7	1-5-6-7 1-5-6
2нм5	3 4 4 14 Cont test 2-7	2-7	1~5	3CĘ5 3CF6			14	2	1-5-6-7
2HQ5 2HR8	t 2 4 3 14 Ignore glow on 2-7 2 4 4 18	2-7 3	1-5 1-6-9						
2W3	Cont test 2-7 2 4 2 20	J	4		E NOVAR SOCK E MAGNOVAL S				

TUBE	A B C	CATH D SHORTS	TEST	TUBE	A B C	D	CATH SHORTS	TEST
зсиз	4 5 2	30	10	3 G Ų,5	2 5 4	14	2-7	1-5-6
3 c й3	Cont test 3-5 4 5 2 Cont test 8	28	10	3 G W5	Cont test 2-7 t 2 4 3	16	5	1-2-6
3CV3A	4 5 2 4 5 3-5	42 34 *	10 10	ЗНА 5	Ignore glow on 3 5 4 Cont test 2-7	2 14	2-7	1-5
3CX3	*3-4-5-6-8 4 5 2	36 *	10	знк5	2 5 4 Cont test 2-7	14	2-7	1-5
11	*1-2-3-5-7 Must show short			зн <u>м</u> 5	3 5 4 Cont test 2-7	14	2-7	1-5
3CY 5 3CZ3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14 2-7 38 *	1-5-6 10	ЗНМ6 ЗНQ5	pe 3 5 4 t 2 5 3	14 14	1-3 2-7	2-7-8-9 1-5
3D6	*2-7-8 2 2 7	16	2-3-6	3HS8	Ignore glow on pe 3 5 4	2-7 18	1	2-3-6-7
3 DA3	Cont test 1-8 4 5 3-5	30	10	3HT6	pe 3 5 4 p 3 4 4	$\frac{18}{14}$	1 1-3	2-7-8-9 2-7-8-9
3DB3	Cont test 3-4-5 4 5 2	-6-8 52 *	10	3JC6	Îgnore glow on 2 5 5	1 14	1-3	2-7-8
3DC3	*1-2-3-5-7 4 4 2	28	10	3JD6	Cont test 1-3 3 5 5	14	1-3	2-7-8
3DF3	Must show short 4 5 3-5	24	5-7 10	3KF8	Cont test 1-3 pe 3 6 4	14	1	2-3-6-7
11 11	Good tube reads No short test	above 30		2 vmc	pe 3 6 4 2 5 4	14	1	2-7-8-9
3 DG4	p 2 5 1	14	7	3KT6 3MP26	2 5 4 3 5 3	16 16	1-3 2	2-7-8 1-5-6
ODAT	p 2 5 1	14	5	3MR24	2 5 3	18	2	1-5-6-7
3 DH3	4 5 3-5	36	10	3MV7	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	18	$\bar{2}$	1-5-6-7
**	Cont test 3-4-5		•	3Q4	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{5}$	18	_	2-3-4-6
*1	No short test	-	5	34,7	Ignore glow on			
3DJ3	1 3 2	88	10	11	Cont test 1-2-	6-7		
†1 †1	Good tube reads No short test	above 20		3 Q 5	3 2 8 Cont test 2-7	26		3-4-5
3 DK6	2 5 3	14 2	1-5-6-7	384	2 2 5	18		2-3-4-6
3DR3	4 5 3-5 Cont test 2-3-5	38	10	""	Ignore glow on Cont test 1-2-	2		2010
3 D ន្ទ3	4 5 35	36	10	3V4	2 2 5	18		2-3-6
****	No short test			*** F	Cont test 1-7			
3DT6	2 5 3	16 2	1-5-6-7	4AB8	t 2 6 4	18	3	1-2
3 DZ4	3 5 4	16 5	1-2-6-7	11	pe 2 6 4	16		6-8-9
***	Cont test 1-7 &	2-6		4AF4	2 6 3	14	5	1-2-6-7
ЗЕН7	$ \begin{array}{cccc} 2 & 5 & 4 \\ \text{Cont test } 1-3 \end{array} $	17 1-3	2-7-8-9	11	Ignore glow on Cont test 1-2-6			
3Е7	2 5 4 Cont test 1-3	12 1-3	2-7-8-9	4AU6	3 6 3 t 2 6 3	14 16	$_{2}^{7}$	1-2-5-6 1-7
3EŖ5	2 4 3 Cont test 1-7	14 1-7	2-5-6	4AV6 "	d 1 6 3	16 16	2	5
3 E S5	2 5 3 Cont test 1-7	14 1-7	2-5-6	4BC5	2 6 3	14 14	2-7	6 1-5-6
3EŸ5	1 4 3	10 2-7	1-5-6	4BC8	t 2 6 4	14	8	6-7 1-2
3 г ӊ5	Cont test 2-7 2 5 3	14 1-7	2-5	4BE6	to 2 6 3 t 2 6 3 t 2 7 4	16 20	2	1-5-6-7
3 F Q5	Cont test 1-7	14 1-7	2~5	4BL8	p 2 7 4	14 14	8 7	$\begin{array}{c} 1-9 \\ 2-3-6 \end{array}$
3 F S5	Cont test 1-7 2 5 3	14 2-7	1-5-6	4BN4	2 6 3 Cont test 1-2-6		1-6	2-5-7
3FY 5	Cont test 2-7 2 5 3	14 1-7	2-5	4BN6	Ignore glow on 4 6 3	2 38	1	2-5-6-7
3 GK 5	Cont test 1-7 2 4 3	14 1-7	2-5	4BQ7	t 2 6 4 t 2 6 4	14 14	8 3	6-7 1-2
11	Cont test 1-7			4B <u>Ş</u> 8	t 2 6 4	14	8	6-7
3G <u>Ş</u> 8	pe 2 5 4 pe 2 5 4	14 1 14	2-7-8-9 2-3-6-7	- - 11	t 2 6 4	14	3	1-2
• - USE	NOVAR SOCKET			A - USE	MAGNOVAL SOCKET	•		

TUBE		A	В	С	D	CATH SHORTS	TEST	TUBE	A	В	С	D	CATH SHORTS	TEST
4BU8	pe	2 2	6 6	4	14 14	1	2-7-8-9 2-3-6-7	4нт6	p 3 Ignore	6 glov	4. 0n	14	1-3	2-7-8-9
4BX8	pe t t	2 2	6	4	14 14	8 3	6-7 1-2	4JÇ6	2 Cont t	6	5 3	14	1-3	2-7-8-9
4BZ6		2	6	3	14	2	1-5-6-7	4JD6	3	6	5	14	1-3	2-7-8-9
4BZ7	t t	2 2	6 6	4 4	14 14	8 3	6-7 1-2	4JH6	Cont t	est 1 6	3 3	14	2	1-5-6
4BZ8	t	2 2	6 6	4 4	14 14	8 3	1-2 6-7	4JK6 4JK8	t 2	6 6	4 5	14 14	2 3	1-5-6-7 1-2
4CB6	·	2	6	3	14	2	1-5-6-7	''	t 1	6	5	8	8	6-7
4CE 5 4CY 5		2 2	6 7	3 3	14 14	2-7 2-7	1-5-6 1-5-6	4JL6 4JW8	t 2	6 6	4 4	14 18	2 8	1-5-6-7 1-9
4DE6	Cont	t te 2	st 2	2-7 3	14	2	1-5-6	4KE8	pe 2 pe 2	6 6	4 5	16 14	7 7	2-3-6 2-3-6
4DK6		2	6	3	14	2	1-5-6-7	• • • • • • • • • • • • • • • • • • • •	t 2	6	5	16	8	1-9
4DT6 4EH7		2 2	6 6	3 4	14 17	2 1-3	1-5-6-7 2-7-8-9	4KF8	pe 3 pe 3	6 6	4	14 14	1 1	2-3-6-7 2-7-8-9
*1	Cont	t te	s t 1	l −3 4	12	1-3	2-7-8-9	4KN 8	t 2 t 2	6 6	4 4	16 16	8 3	6-7 1-2
4EJ7	Cont		st 3	[-3				4KT6	2	6	4	16	1-3	2-7-8
4E58	t t	2 2	6 6	4 4	12 12	8 3	6-7 1-2	4LJ8	t 2 pe 3	6 6	4	14 14	3-8	1-2 6-7-9
4EW6		2 * 2	6	3	12 14	2 1-3	1-5-6 8-9	" 4LU6			-8 3	18	2	1-5-6-7
4GJ7	t pe	3	6	4	14	1-3	2-6-7	4MK8 4	pe 2	6	4	16	1	2-7-8
4G K 5	Cont	t te 2	st 1	l−3 4	14	1-7	2-5	4MP12	pe 2 2	6 6	4 3	16 18	2	2-3-7 1-5-6
	Cont			L−7 3	12	2	1-5-6-7	4MP26 4RHH2	3 t 2	6 6	3 4	16 14	2 8	1-5-6 6-7
4GM6 4GS7	t	2 2	6 6	4	18	3-8	1-2	*1	t 2	6	4	14	3	1-2
"	pe Cont	2 te	6 st 3	4 3-8	16		6-7-9	4Rӊн8	t 2 t 2	6 6	4 4	16 16	8 3	6-7 1-2
4G <u>Ş</u> 8	pe	2	6	4	14 14	1	2-7-8-9 2-3-6-7	4RHH15	t 2 t 2	6	4 4	20 20	3	1-2 6-7
4GW5	pe t	2 2	6	3	16	5	1-2-6	5AF4	2	7	3	14	5	1-2-6-7
4GX6	Igno	ore 1	glov 6	v on 4	2 8	2	1-5-6-7	н	Ignore Cont t	glowest 1	on -2-			
4GX7	t pe	2 3	6	4 4	16 14	1 3	8-9 2-6-7	5AM8	pe 2 d 1	7 7	4	14 8	1 7	2-3-6-9 8
11		ore	glov	v on	1-3			5AN8	t 2	7	4	16	3	1-2
4GZ5	Cont	3 t te	6 st (4 on 2-	14 -5	1	2-5-6-7	5AQ4	pe 2 pe 4	7 7	4 2	16 12	9	6-7-8 4
4нд 5	t Igno	2 re	6 glov	3 v on	70 7	2-7	5-6	5AQ 5	pe 4 3	7 7	2 3	12 20	2	6 1-5-6-7
4HA7	рe	2	6	12 12	18 18	3 4	2-11 9-10	77	Ignore Cont to	glow	on		_	_ • • •
4HÇ7	pe t	2 2	6	1	18	4	7-9-10	5AR4	p 4	7	2	12		4
"	t Igno	2 ore	6 glov	1 v on	18 7-10	3	2-11	5AŞ4	p 4 p 3 p 3	7 7	2 2 2 4	12 14		6 4
4HG8	t pe	2	6 6	4 4	14 14	1 1	6-7 2-8-9	" 5AS8	p 3 p 3 pe 2	7 7	2	8 12	3	6 1-2-9
11 41397 E	Igno	ore	glov	on	1	_		*1	d 1	7	4	8 14	8 3	6
4H <u>K</u> 5	Cont	2 te	6 sto	4 n 2-	14 ·7	2-7	1-5	5AŢ8	t 2 pe 2	7	4	14	3	1-2 6-7-8-9
4НМ5	t Igno	2 ore	6 glow	3 / OB	14 2	2-7	1-5	5AŲ4	p 4 p 4 t 2	7 7 7 7 7 7 7 7	2 2	14 14		4 6
4нм6	Cont	2	6	5	14	1-3	2-7-8-9	5AŸ8		7	4	14 14	1 7	2-3 6-8-9
4HQ5	t	2	6	3	14	2-7	1-5	5A W4	p 4	7 7	2	14	1	4
4HS8	Igno pe pe	ore 2 2	glow 6 6	on 4 4	2-7 14 14	1	2-7-8-9 2-3-6-7	5AX4	p 4 p 3 p 3	7 7 7	2 2 2	14 32 32		6 4 6
• - USE	NOVA				- 7		w V f	▲ - USE		•				v

TUBE	A	В	C I	CATH SHORTS	TEST	TUBE	A	В	С	D	CATH SHORTS	TEST
5AZ4	р 3	7	2 3	34	4	5FG7	t 2	7	4	12	3-8	1-2
5B8	p 3 t 2	7 7	2 3	34 14 1- 7	6 2~3	5FV8	pe 2 t 2	7 7	4 4	$\frac{12}{14}$	3	$6-7-9 \\ 1-2$
11	pe 2 3	7	4 1	14	6-8-9 5-6-8-9	5GH8	pe 2 t 2	7 6	44	14 12	8 8	6-7-9 1-9
5BC3●	Cont t	est 5-	-6 & 8	3-9		"	pe 2	6	4	12	7	2-3-6
5BÇ8	t 2 t 2	7 7	4 1	14 8 14 3	6-7 1-2	5GJ7	t 2 pe 3	7 7	4 4	14 14	1-3	8-9 2-6-7
5BE8	t 2 pe 2	7 7		l4 3 l4 8	1-2 6-7-9	" 5GM6	Cont te	st 1 7	. - 3 3	12	2	1-5-6-7
5B K 7	t 2 t 2	7 7	4 1	4 8 4 3	6-7 1-2	5GS7	t 2 pe 2	7 7	4 4	18 16	38	1-2 6-7-9
5BQ7	t 2	8	4 1	l 4 8	6-7 1-2	11 5CVC	Cont te	st 3	8-8	8	9	
5BR8	t 2	8 7	4 1	4 3	1-2	5GX6 5GX7	t 2	7 7	4	16	2 1	1-5-6-7 8-9
5BS8	$egin{array}{ccc} ext{pe} & 2 \ ext{t} & 2 \end{array}$	7 7		4 8 4 8	6-7-9 6-7	T1	pe 3 Ignore	7 glow	4 on	14 1-3	3	2-6-7
5BT8	t 2 pe 2	7 7		4 3 4 9	1-2 6-7-8	5нд,7	t 2 t 2	7 7	12 12	18 18	4 3	9-10 2-11
11	d 1 d 1	7 7	4 1	0 3	2	5н <u>р</u> 7	t 2 pe 2	7	4	14 14	1-3	8-9 2-6-7
5B₩8	pe 2*	7	4 1	4 7	6-8-9	11	Cont te	st 1	-3		4	
7f 2f	d 1 d 1	7 7	4 8	3	3 1	5HC7	t 2 t 2	7 7	1 1	18 18	4 3	7-9-10 2-11
5BZ 7	May shot 2	owsho	4 1	1 7 14 8	6-7	5HG8	$\begin{array}{cc} \textbf{Ignore} & i \\ \mathbf{t} & 2 \end{array}$	glow 7	on 4	7-10 14	1-3	6-7
5CG8	t 2 t 2	8 7		.4 3 .4 3-8	1-2 1-2	17 17	pe 2 Cont te	7 st 1	4 -3	12	1-3	2-8-9
"	pe 2	7 est 3-	4 1	.4	6-7-9	5HZ6 5J6	t 2	7 7	4 3	8 14	2 7	1-5-6-7 2-5
5CL8	t 2	7	4 1	.4 3 .4 8	1-2 6-7-9		t 2 2	7 7	3 4	14 14	2	1-6 1-5-6-7
5CM6	te 2 2	7	4 1	.4 8 .6 7	1-3-6-9	5JK6 5JK8	t 2	7	5	14	3	1-2
77	Ignore Cont t					5Л.6	t 1 3	7 7	5 4	8 14	8 2	6-7 1-5-6-7
5Сӊ8	t 2` pe 2`	7 7		.6 8 .4 3	1-9 2-6-7	5JŅ8	t 2 pe 2	6 6	4 4	18 16	8 7	1-9 2 - 3-6
509,8	t 2 te 2	7 7	4 1	.4 8 .4 7	1-9 2-3-6	5кр8	pe 2 pe 2	7 7	5 5	16 16	7 8	2-3 -6 1-9
5CR8	t 2	8	4 1	.6 8 .4 3	1-9 2-6-7	5K <u>K</u> 8	pe 2 t 2	7 7	5 5	14 16	7 8	2-3-6 1-9
5C <u>X</u> 8	t 2	7	4 1	.6 1	2-3	5KZ8	t 2	7	4	14	8	1-9
5CZ5	pe 2 3	7 7	4 2	4 6 0 7	7-8-9 1-3-6-9	5LJ8	pe 3 t 2	7 7	4 4	14 14	3 3-8	2-6-7 1-2
11	Ignore Cont to	glow est 3-	on 3 -6			4 #1 #1	p 3 Cont tes	7 st 3	4 -8	14	3-8	6-7-9
5DH8	t 3 pe 3	7 7	4 1	6 3 6 8	1-2 6-7-9	5МВ,8	t 2 pe 2	7 7	4 4	16 16	3 8	1-2 6-7-9
5DJ4	p 4	7 7	7-8 1	4	3-4 5-6	5М Г 8	t 2	6	1 1	16 16	11 9	2-10 4-6-7-8
11	Cont te	est 3-	4 & 5	5 -6		11 11	Îgnore	glow	on	6	Ð	4 0 1 0
5 e a8	pe 2 t 2	7 7	4 1	4 7 4 8	2-3-6 1-9	5мнн3	Cont tes	7	3	14	7	2-5
5ЕН8	pe 3 t 3	7 7		4 1-6 4	7-8-9 2-3	5MK9	t 2 1	7 7	3 3 2	$\begin{array}{c} 14 \\ 12 \end{array}$		1-6 5
5ES8	Cont to		6 4 1	2 8	6-7	5P29 5MQ8	3 t 2	7	2 4	14 21	8 8	4-5-10 1-9
	t 2	7	4 1	2 3 2 6	1-2 2-3	5R4	pe 2	7 7 7	4 2	23 14	7	2-3-6 4
5EU8		6	4 1	2 8	1-7-9	JR4	p 4 p 4	7	2	14		6
5EW6	2	1	3 1	2 2	1-5-6							
• - USE	NOVAR S	SOCKET	.			A - US	E MAGNOVAI	L SO	CKET	C		

TUBE		A	В	С	D S	CATH SHORTS	TEST	TUBE		A	В	С	D	CATH SHORTS	TEST
5RDDH1	ď	2	6	4	20	2	1	6AD10	pe	2	8	12	16	2	3-6-7
; t	d	2	6	4	18	3	6 7-8	6AF3	pe	2	8 8	12 4	16 26	9 10	8-10-11 2-9
5RHP1	t.	2 2	6 7	4 4	20 14	9 8	1-8 1-9	**	Igno	ore	glow	no v		.10	2 9
**	pe	2	7	4	14	7	2-3-6	**	Con	t te	st 2	?-9		-	1007
5RHR1	t pe	$\frac{2}{2}$	7 7	4	18 16	8	1-9 2-3-6	6AF4	Lone	2 ore	-8 я1оч	3 on	14 1-2	5	1-2-6-7
5RK16	d pc	2	7	4	24		1		Con	t te	st 1	2-€	5-7	_	
	d	2	7 7	4	24		8	6AF5 6AF6	е	2 4	8 8	2 2	16 0	8 8	3-5 3 - 4-5
5 T 4	p p	4 4	7	2 2	14 14		4 6	11	See			tion	s fo		test
5T8	t	3	7	4	28	7	8-9	6AF9	pe	$\frac{2}{2}$	8 8	5 5	16 16	7 2-7	8-9-10 1-3 - 4
+1	d d	1	7 7	4 4	8 8	3	6 2	16	pe Con		st 2			ibe is	
16	d	1	7	4	8		1	6AF11	t	2	8	12	16	7	3-4
5U 4	p	4 4	7 7	2 2	14 14		4 6	51	t pe	2 2	8 8	12 12	16 14	5 9	6-8 2-10-11
5U8	p t	2	7	4	14	8	1-9	6AG5	-	3	8	3	18	2-7	1-5-6
5110	pe	2 2	7 8	4 5	14 18	1	2-3-6 9-10	6AG6	Cont	t te 2	st 2 8	2-7 2	14	8	3-4-5
5U 9	t pe	2	8	5	16	2	3-7-8	6AG7		3	8	2	14	5	1-4-6-8
5V3	p	4	7	2	14		4	6AG9	t	2	8 8	1 1	16 16	6 9	5-7 2-10-11
5V4	p p	4 4	7 7	2 2	14 12		6 4	6AG11	pe d	1	8	i	8	2	3
*1	p	4	7	2	12		6	##	ď	1 2	8	1	8	11	10 5-6
5V 6 5V 9	t	3 2	7 7	2 5	20 16	8 9	3-4-5 8-10	T?	t t	2	8 8	1	14 14	4 9	7-8
17	h	2	7	5	18	i	3-4-7	6AH4		3	8	2	16	8	1-5
5 V 4	þ	4 4	7 7	2 2	14 14		4 6	6AH5 6AH6		3 3	8 8	2 3	18 14	8 7	1-4-6 1-2-5-6
5X4	p p	3	7	7	24		3	6АН9	t	2	8	1	18	4	2-3
evo	p	3 2	7 7	7 4	24 14	6	5 2 <i>-</i> 3	11	pe Igno	2 re	8 glow	1 , on	16 5	7	5-6-8-11
5X8	t pe	2	7	4	14	Ð	1-7-8-9	91	Cont			5-6			
5X9	ŧ	2	8	5	16	1	9-10	6A J 4	*1-3-	2	8	7	14	2	*
5Y3	pe p	2 4	8 7	5 2	16 14	2	3-7-8 4	**				7 7 On	1-3-	-4-6	
	p	4	7	2	14		6	11	Cont	t te	st 1	3 -4	-6 -9)	* 5.0
5Y 4	p ,	4 4	7 7	7 7	14 14		3 5	6AJ5	Cont	2 te	8 st 2	3 !-7	14	2-7	1-5-6
5Z3	p p	4	7	1	12		ž	6AJ7		3	8	2	14	5	3-4-6-8
	р	4 4	7 7	1	12 14		2 3 4	6АДВ	he t	2 2	8 8	5 5	14 16	3	1-2-6-7 8-9
5Z4	p p	4	7	2 2	14		6	6A J 9	ť	2	8	5	18	1	9-10
6A7	to	2	8	1	16	6	* 4-5	%. 6A <u>K</u> 5	pe	2 2	8 8	5 3	18 16	$\frac{2}{2-7}$	3-7-8 1-5-6
11	t *2-3	2 -4-5	8 5-10	1	16		4-5	"	Cont	: te	st 2	-7		2 .	
6AB4		2	8	3	14	7	1-6	6AK6		3	8 8	3 2	22 16	7 5	1-2-5-6 1-4-6-8
6AC5 6AC7		3 3	8 8	2 2	22 14	8 5	3-5 3-4-6-8	6AK7 6AK8	t	3	8	4	20	7	8-9
6AÇ9	pe	2	8	12	16	8	9-10-11	9 f T	ď	1	8	4	14		6
*1	d Con	1	8 st3	12	10	4	2	**	d d	1	8 8	4 4	8 8	3	2 1
6AÇ10	t	2	8	12	16	4	9-10	6AK9	t	1 2 2	8	1	20	7	2-3
14	t t	2 2	8 8	$\frac{12}{12}$	16 16	6 3	5-7 2-11	, t	pe t	2 2	8 8	1 1	20 20	7 7	5-8-9 10-11
6AD5	L	3	8	2	20	8	3-5	6AK10	t	2 2	8	1	20	4	9-10
6AD6	e	4	8	2	0	8	3-4-5	17 ##	t t	2 2	8 8	1 1	20 20	6 3	5-7 2-11
6AD7	See t	1 n s 2	truc 8	tion 2	s for 30	eye t 8	est 1-6	6AL3	-	2	8	4	12	10	3-8-9
11	pe	3	8	2	24		3-4-5	\$* 91	Igno	re	glow	on	3-8	-8-9	
														-0-A	
• - USE	NOV.	AR S	OCKE	T			į	▲ - USE	MAGN	IOVA	L S O	CKET	1		

TUBE		A	В	С	D	CATH SHORTS	S TEST	TUBE		A	В	С	D	CATH SHORTS	TEST
6AĻ5	ď	1	8	3	12	1_	7	6AU8	t	2	8	4	14	1	2-3
6AL6	đ	1 3	8 8	3 2	12 20	5 8	2 4-5-10	6AV5	pe	2 3	8 8	4 2	14 18	6 3	7-8-9 1-5-8
6AĻ7	e *2/	1 1-5-€	8	*	0	8	**	6AV6	t a	3	8	3 3	18	$\tilde{2}$	1-7
?T ?!	**13	3-4-5	5-6					11	d d	1	8	3	16 16		5 6
6AL9	See t	ins 2	truc 8	tio	ns fo 20	r eye 6	test 5-7	6AV11	t t	2 2	8 8	1	16 16	3 6	2-11 5-7
11	pe	2	8	1	20	9	2-4-10-11	77	ť	2	8	1	16	4	9-10
6AL11	pe pe	3 2	8 8	12 12	14 16	9 2	8-10-11 3-4-6-7	6AW6 6AW8	t	2 2	8 8	3 4	14 14	2 1	1-5-6-7 2-3
6AM4	_	2 -4-5	8	7	14	2	*	6AX3	pe	2	8	4	14	6	7-8-9
11 11	Ign	ore	glow	on	1-3-	4-6		DAAD	Ign	ore	glov	v on	16 4	7	4-10
6AM6	Con	t te	st 1 8	-3-4 3	4-6-9 14	2	1-5-6-7	6AX4	Con	t te	est 4	1-10 7	14	3	5
6AM8	pe	2	8	4	14	1	2-3-6-9	6AX5	p	4	8	2	14	8	5
6AN8	đ	1 2	8 8	4 4	8 16	7 3	8 1-2	6AX7	p t	4 3	8 5	2 9	14 20	8	3 6-7
,11	pe	2	8	4 3	16 16	9 25	6-7-8	17	t	3 t te	5	9 1-5	20	3	1-2
6AQ4		ore	glow	on	1	23	1-6-7	6AX8	t	2	8	4	14	8	1-9
6AQ5	Con	t te	st 1 8	-2-: 3	5-6 20	2	1-5-6-7	6AY3	pe	2 4	8 8	4 4	14 14	7 9	2-3-6 2-7
		ore	glow	on -7		_		6AY11	Ign		glow		2-7		
6AQ6	t	t te 1	8	3	8	2	1-7	17	d d	1 1	8 8	1 1	10 10	$\begin{array}{c} 2 \\ 11 \end{array}$. 3 10
**	d d	1 1	8 8	3 3	18 18		5 6	11	t t	2 2	8	1 1	14 14	4 9	5-6 7-8
6AQ7	ŧ	1	8	7	10	6	4-5	6AZ8	t	2	8	4	14	7	8-9
tt	d d	1 1	8 8	7 7	12 12	2	3 1	6B10	p t	2 2	8 8	4 12	14 16	3 2	1-2-6 3-4
6AQ8	t	2 2	8	5 5	14 14	8 3	6-7 1-2	11 11	t d	2 1	8	12 12	16 10	7	5-6
6AR5	t	3	8	3	22	2	1-5-6	"	d	1	8	12	10	9 9	8 10
6AR6 6AR8		3 2	8	6 4	20 14	1 7	3-5-7 3-6	6B3,2	d d	1 1	8 8	3 3	8 8	1 5	7 2
6AR11	рe	2	8	12	14	6	2-3-4-5	6ВАЗ•		3	8	5	18	9	2-7
6AS5	pe	2 1	8 8	12 3	14 8	11 1	7-8-9-10 2-5-6-7	6BA8	Con1		st 2	-7 4	16	1	2-3
## " H	Ign	ore	zlow	on	2			" 6BA11	pe	3 2 2 2	8	4	14	6	7-8-9
6AS6	COH	t tes 3'	8	3	16	2	1-5-6-7	**	pe pe	2	8	12 12	16 16	8 8	2-3-4-5 3-4-6-7
6AS7	t t	3 3	8 8	7 7	16 16	3 6	1-2 4-5	." 6RR144	t	2 2	8 8	12 4	18 14	10 38	9-11
6AŞ8	pe	2	8	4	14	3	1-2-9	6BB14▲	*1-2-	-6-7	-10	_		30	·
6AS11	d t	1 2	8 8 8	4 1	8 16	8 7	6 3-4	11			glow st 1		1-6 -6-7	-8	
**	t pe	2 2	8 8	1 1	14 16	5 9	6-8 2-10-11	6BÇ4	*1-2-	2 -37	8 	4	14	6	*
6АД6	t	1	8 8 8	3	8	2	1-7	!! !!	Igno	re	glow	on	1-2-		
T#	d d	1 1	8	3 3	16 16		5 6	6BÇ5	Cont	te 2	st 1 8	-2-3 3	-7-8 14	-9 2-7	1-5-6
6AŢ8	t pe	2	8 8	4 4	14 14	3	1-2 6-7-8-9		Cont d	te 1	st 2 8	-7 4	8	9	
6AU4	PC	2	8	7	14	3	5	6BC7	đ	1	8	4	8	7	8 6 2
6AU5 6AU6		1 2 2 2 3 3	8 8 8 8	2 3	18 18	3 7	1-5-8 1-2-5-6	6BÇ8	d t	1 2	8	4	8 14	1 8	2 6-7
6AU7	t t	3		9	20 20	8	6-7		t	$\frac{1}{2}$	8	4 3	14	3	1-2
f#	-	tes:			20	S	1-2	6BD6		4.	O	J	17	7	1-2-5-6

TUBE		A	В	С	D	CATH SHORTS	TEST	TUBE		A	В	С	D	CATH SHORTS	TEST
6BD11	t t	3 2	8 8	1 1	18 14	7 5	3-4 6-8	6BL7	t	3	8	7	12	3	1-2
6BE3	pe	2 1	8	1	14 8	7	2-10-11 4-10	6BĻ8	t	3 2 2	8 7 7	7 4 4	12 14 14	6 8 7	4-5 1-9
6BE6	Igr to	ore 2	glow 8	on 3		2	1-5-6-7	6в <u>₩</u> 8	p t pe	2 2	8 8	4	14 14 14	8 2	2-3-6 1-9 3-6-7
6BĘ7	t	2 2	8	3 4	16 16	38	1-6 1-6-7	6BN4	Igr	2 nore	8 glov	3	14	1-6	2-5-7
6B <u>E</u> 8	t	1t te 2 2	8	-8 4 4	14	3	1-2	6BN 5		it to	8	2-7 4	18	3	*
6BF5	p Tor	3	8 8 glow	3	14 16	8 2	6-7-9 1-5-6-7	14 44	Igr	ore	7-8-9 gloy	v on			
" 6BF6	Con	it te	est 1 8	-7 3	22	2	1-7	6BN6 6BN7		4 3	est 1 8 8	3	38 16	1	2-5-6-7
11	d d	1	8	3 3	18 18	-	5 6	6BN8	t t t	2 2 1	8 8	4 4	18 14	6 3	7-9 1-2
6BF8	d d	2 2	8	5 5	16 16		1 2	"	d d	1 1	8	4 4	8	9 3 2	7-8 6
11	d d	2 2 2	8 8	5 5	16 16		3 7	6BN11	pe pe	2 2	8	12 12	16 16	8 2	7-9-11 3-4-5
**	d d	2	8 8	5 5	16 16		8 9	6BQ5	_	3	8 glow	4	18	3	1-2-7-9
6BF11	pe pe	2 3	8	12 12	16 14	2 9	3-5-6-7 8-10-11	6BQ6 *	Con	ıt t∈ 3	est 1 8	-2 2	18	8	4-5-10
6BG6 6B <u>H</u> 3●	т	3 4	8	2 5	18 14	3 9	5-8-10 2-7	6BQ7	t t	2	8 8	4	14 14	8 3	6-7 1-2
6BH6 6BH8	Ign t	ore 2 2	glow 8 8	on 3 4	2 14 14	2 1	1-5-6	6BR3		3 ore	8 glow		26 2	10	2-9
6В Н 11	pe t	2 2	8	4	14 14	6 2	2-3 7-8-9 3-4	6BR5	t e	t te 3 4	8 8 8	-9 4 4	26 0	2	1-7
11	t pe	2 2	8 8	ī 1	14 14	5 11	6-7 8-9-10	11 11	May	sho	w sh	ort	on 3	-6-9 - togeth	throw 7
6BJ3	Ign	1 ore	8 glow		8 4	7	4-10	6BR7	See t	ins 2	truc 5	tion 9	s fo 14	r eye t	est 1-2
6BJ6 6BJ7	d	2 1	8 8	3 4	14 8	2 9	1-5-6-7 8	77 97	d d	1	5 5	9	10 10		7 6
11	d d	1	8	4	8	7 1	6 2	6BŖ8	Con t	2	st 4 8	-5 4	14	3	1-2
6B,18 "	t d d	2	8	4	14 8	9 3	7-8 6	6B S 3●	pe d	2 4	8	4 4	14 14	8 9	6-7-9 2-7
6В Ķ4	u *1~3	1 1 -4-6	8 8 	4 7	8 10	2 *	5-10	6B <u>5</u> 8	Ign-	2	glow 8	4	2 14	8	6-7
Ff TE	May	sho	w sho	rt	on 1	-3-4-6-8 1-3-4	3	6BŢ6	t t d	2 2 1	8 8 8	4 3 3	14 18 18	3 2	1-2 1-7
6B K 5						ve 30	1-3-7-8	" 6BT8	d pe	1 2	8 8 8	3	18 14	9	5 6 6-7-8
#1		te		·7				"	ď	1 1	8	4	10 10	3	1
6B K 6	t d	3	8	3	16 8	2	1-7 6	6Bµ6	t d	3 1	8 8 8	3 3	22 12	2	1-7 6
6B K 7	d t	1 2		3 4	8 14	8	6-7	6BU8	d pe	1 2	8	3 4	12 14	1	5 2-7-8-9
6BK8	t t	2 2 2	8	4 4 12	14 18 20	3	1-2 1-6-9	6B Y 8	pe t	2	8 8 8	4	14 14	1	2-3-6-7 2-3
6BK11	t t	2 2 2	8	12 12 12	20 20 20	4 6 3	9-10 5-7 2-11	,, 6BV11	d d	1 1 2	8 8 8	4 4 1	8 8	7 8	9 6 7-0-10
	-	-	~	***		-	₩ 1.4	ODAII	pe pe	2	8	1	16 16	8 5	7-9-10 3-4-6

TUBE	CATH A B C D SHORTS	TEST	TUBE	CATH A B C D SHORTS TEST
6вүз	3 8 12 16 7	4-10	6CÇ31	t 1 8 3 8 7 2-5
6BW4	Ignore glow on 4 p 3 8 4 22 9	7	6CC42	t 1 8 3 8 1-6 t 2 8 1 16 8 6-7
6BW8	p 3 8 4 22 pe 2 8 4 14 7	1 6-8-9	6CC43	t 2 8 1 16 2 3-4 t 2 8 5 14 8 6-7
н	d 1 8 4 8 2 d 1 8 4 8	3 1	6CD3	t 2 8 5 14 3 1-2 4 8 12 14 7 4-10
II CDVH 4	May show short on 7		''	Ignore glow on 4
6BW11	pe 2 8 1 16 10 pe 2 8 1 16 2	8-9-11 3-4-5	6CD6 6CE3	3 8 2 16 3 5-8-10 4 8 12 14 7 4-10
6BX6	2 7 4 14 1-3 Must show short on 1-3	2-7-8	6CE5	Ignore glow on 4 2 8 3 14 2-7 1-5-6
81 81	Cathode short test - throw together	v 1-3	6CF6	Cont test 2-7 2 8 3 14 2 1-5-6-7
6BX7	t 2 8 7 14 6	4-5 1-2	6CF8	2 8 4 16 3 1-6-9
6BX8	t 2 8 4 14 8	6-7	6CG3	4 8 12 14 7 4-10
6B <u>Y</u> 5	p 3 8 2 20 8	1-2 5	6CG7	Ignore glow on 4 t 3 8 4 22 8 6-7
6BY 6	p 3 8 2 20 1 3 8 3 16 2	4 1-6	6CG8	t 3 8 4 22 3 1-2 t 2 8 4 14 3-8 1-2
6BY7	3 8 3 16 2 8 4 14 1-3	1-5-6-7 2-7-8	+1	pe 2 8 4 14 6-7-9 Cont test 3-8
0D1 *	Must show short on 1-3 - 0	Cathode	6Сӊ3•	3 8 4 14 9 2-7
6BY 8	pe 3 8 4 16 9	ether 1-2-7-8	6СН6	3 8 4 14 3 2-7-8
6BY11	d 1 8 4 8 3 pe 2 8 1 16 2	6 3-5-6-7	6Сӊ7	t 2 8 4 14 8-9 6-7 t 2 8 4 3 1-2
6BZ3	pe 2 8 1 16 9 4 8 1 12 7	8-10-11 4-10	'' 6CH8	Cont test 8-9 t 2 8 4 16 1 8-9
6BZ6	Ignore glow on 4 2 8 3 14 2	1-5-6-7	6CJ3●	pe 2 8 4 14 6 2-3-7 4 8 4 12 9 2-7
6BZ7	t 2 8 4 14 8	6-7	"	Ignore glow on 2
6BZ8	t 2 8 4 14 3 t 2 8 4 14 3	1-2 1-2	6C 16	Ignore glow on 7
6C4	t 2 8 4 14 8 2 8 3 16 7	6-7 1-5-6	6СК3●	Cont test 1-6-7-8-9 4 8 4 14 9 2-7
11	Ignore glow on 1 Cont test 1-5		71	Ignore glow on 2 Cont test 2-7
6C5	2 8 2 16 8	3-5 1-2-3	6C Ķ4	2 8 2 14 8 1-3-5 Ignore glow on 1
6C9	te 3 8 5 14 6	7-8-9	11	Cont test 1-3
6C10	t 2 8 12 16 3 t 2 8 12 16 6 t 2 8 12 16 4 t 2 7 4 14 8	2-11 5-7	6C <u>L</u> 3●	4 8 4 14 9 2-7 Ignore glow on 2
6C <u>1</u> 6	t 2 8 12 16 4 t 2 7 4 14 8	9 -1 0 1-9	6CL5	Cont test 2-7 3 8 2 14 3-6 *
6C18	pe 2 7 4 14 7 t 2 8 4 16 6-8	2-3-6 1-9	11	*1-4-5-8-10 Ignore glow on 1-4
11	pe 2 8 4 16	2-3-7	" 6CL6	Cont test 1-3-4-5-6-8 2 8 4 14 1 2-3-8-9
6CA4	Cont test 6-8 p 3 8 4 18 3	1	ocho	Ignore glow on 2
6CA 5	p 3 8 4 18 3 8 3 18 1	2-5-6-7	6CL8	Cont test 2-3-8-9 t 2 8 4 14 3 1-2
17	Ignore glow on 2 Cont test 2-5		6CM3 ◆	t 2 8 4 14 8 6-7-9 4 8 4 14 9 2-7
6CA7	3 8 7 16 8	1-3-4-5 2-3	11	Ignore glow on 2 Cont test 2-7
6CA11	t 1 8 1 10 5	4-6	6СМ6	2 8 4 14 7 1 - 3-6-9
17	pe 1 8 1 10 9 May show short on 7	8-11	71	Ignore glow on 3 Cont test 3-6
6CB6	2 8 3 14 2	1-5-6-7	6С <u>ң</u> 7	t 2 8 4 16 3 6-7 t 3 8 4 18 9 1-8
▲ - USE	MAGNOVAL SOCKET		• - USE	NOVAR SOCKET

TUBE	A	в с	D	CATH SHORTS	TEST	TUBE	A	В	С	D	CATH SHORTS	S TEST
TODE		· · · · · · · · · · · · · · · · · · ·			1201	T		***	<u> </u>		~	******
6СМ8	t 2	8 4	16	8	1-9	6DE4	4	8	7	14	3	5
e con c	pe 2	8 4	14	3	2-6-7	6DE6	2	8	3	14	2	1-5-6
6CN6	" 3 t 2	7 2 5 9	14 18	8 6	4-5-10 7-8	6DE7	t 3	8	4	20		6-7
6CN7	t 2 d 1	5 9	8	3	2	- 11	t 3	8	4	្ត14	9	1-2-3
11	d 1	5 9	8	3	1	- 11	Ignore Cont t		on -3	2		
**	Cont te		ŭ		•	6DG6	3	esi 2 8	2	18	8	3-4-5
60Q4	1	8 7	8	3	5	6DJ8	t 2	8	4	14	8	6-7
60Q6	3	8 3	18	2	1-5-6-7	,,,,	t 2	š	4	14	3	ĭ-2
ଫ୍ଲେଞ	t 2	8 4	14	8	1-9	6DK3●	2	8	4	18	10	2-7
	pe 2	8 4	14	7	2-3-6	. "	Ignore	glow			ont tes	st 2-7
6CR6	d 1	8 3	16	1	2	6DK6	2	8	3	14	2	1-5-6-7
CCDO	pe 2 t 2	8 3 8 4	16 16	٥	5-6-7 1-9	6DĽ3•	2	8	4	18	10	2-7
6CR8	pe 2	3 4	14	8 3	2-6-7	6DL5	Must s	nows 7	nor 3	t on 14	2-7 2	1-5-6-7
6CS6	pe 2 to 2	8 3	14	2	1-5-6-7	ODEO	Ignore	glow	on		4	7-2-6-1
6CS7	$\bar{\mathbf{t}}$ $\bar{3}$	8 4	18	9	1-3	6DM4	4	- 8 · · ·	8	14	3	5
	t 3	8 4	22	8	6-7	6DN3•	2	8	5	16	9	2-7
6СТЗ	4	8 4	14	9	2-6	"	Ignore	glow	on	2-7	_	
,,	Cont te		Ignor	T		6DN6	2	8	2	14	3	5-8-10
6CŲ 5	3	8 3	16		2-5-6-7	6DN7	t 2	8	7	16	6	4-5
6CU6	Ignore ;	glow on 8 2	2 Co	nt test 8	2-5 4-5-10	cmos.	t 2 d 4	8	7	16	3	1-2
6Cü8	pe 3	8 4	16	6	2-3-7	6DQ3*	d 4 Ignore	8 glow	1 on	14 4	7	4-10
	t 2	8 4	14	ĭ	8-9	6DQ4	4	8	8	14	3	5
11	May show	w short				6DQ5	3	8	2	14	3-6	*
6CY7	t 2	8 1	16	7	2-3	11	*1-4-5-8			gnore		on 1-4
**	d 1 d 1	8 1 8 1	$\frac{12}{12}$		5		Cont te			1-5-	_	
6CW4	d 1	8 1 8 10		8	6 2-4	6DQ6 6DR4	3 2	8 8	2	16	8 7	4-5-10
6CW5	$\hat{2}$	8 4	14	3	*	ODÜ.*	Ignore	glow	4 on	18 1	•	1-5-6
11	*1-2-6-7					6DR7	t 2	8	4	18	8	6-7
71 17	May show				8-9	11	t 2	8	4	14	9	1-2-3
	Ignore a					"	Ignore	glow			Cont t	
6С₩7	t 2 t 2	8 4 8	14 14	7-8 1	6-9 2-3	6DR8	pe 2	8	4	14	3	1-2-6
11	Cont tes		14	1	2-3	6DS4	d 1 1	8 8	4 10	12 8		8 2-4
6CX8	t 2	8 4	14	1	2-3	6DS5	$\dot{\hat{2}}$	8	3	16	2	1-5-6-7
**	pe 2	8 4	14	6	7-8-9	525,0	****	-	_			est 1-7
6C <u>X</u> 5	2	8 3	14	2-7	1-5-6	6DS8	h 2	8	4	14	3	1-2-6-7
	Cont tes		10			"	t 2	8	4	14		8-9
6CY7	t 2 t 2	8 4 8 4	18 14	8 9	6-7 1-2-3	6DÏ3	4	8	12	14	7	4-10
H1	Ignore p			ש	1 - 2-3	6DT4	Cont te	8 8	-10 7	14	3	1-5
ř†	Cont tes		-			001,4	Ignore	_			3	1-5
6CZ5	3	8 4	20	7	1-3-6-9	6DT5	2	ິ8ັ	4	16	7	1-3-6-9
**	Ignore g		3			**	Ignore				Cont t	est 3-6
6D1	Cont tes	8 4	18	7	1 5 6	6DT6	2	8	3	14	2	1-5-6-7
ODI		low on		7	1-5-6	6DĽ8	t 2 t 2	8 8	4 4	14 14	8 3	6-7 1-2
6D10		8 12	14	3	2-11	6DU3	d 4	8	1	14	3 7	4-10
1† 15	t 2	8 12	14	6	5-7	ODNO	Ignore		_		•	4 10
		8 12	14	4	9-10	6DV4	1	ັ8	10	8	7	1-2-4-6
6DA4		8 7 8 4	16	3	5		Ignore					
6D <u>B</u> 5	Ignore g			2-7	1-3-6-9	6D₩4●	d 4	8	4	14	9	2-7
*1	Cont tes					6DW5	ignore 2	8 grow	on 4	2 14	_	est 2-7
6DB6	2	8 3	14	2	1-5-6-7	טאָשט			_		7 Cont. t	1-3-6-9 est 3-6
6DC6	2	8 3	14	2	1-5-6	6DX8	t 2	8	4	14	3	1-2
6DÇ8	pe 2	8 4	14	3	1-2-6	''	pe 2	8	4	14	7	6-8-9
**	d 1 d 1	8 4 8 4	12		7	6D <u>X</u> ,7	pe 2	8	2	16	8	5-6
	u 1	0 4	12		8		pe 2	8	1	16		1-3
• - USE	NOVAR SO	CKET				▲ - USE	MAGNOVA	L SOC	KET			

TUBE	CATH A B C D SHORTS TEST	TUBE	CATH A B C D SHORTS TEST
6DZ4	3 8 4 16 5 1-2-6-7 Cont test 1-7 & 2-6	6ES6	2 8 3 14 2 1-5-6
6DZ7	pe 3 8 2 16 8 4-5-6	6EŞ8	t 2 8 4 14 8 6-7 t 2 8 4 14 3 1-2
6DZ8	pe 3 8 2 16 1-3-4 t 2 8 4 22 8 1-9	6ET6 6ET7	2 7 3 14 2 1-5-6 pe 2 8 4 14 6 7-8-9
6E 5	pe 2 8 4 20 2 3-6-7 t 2 8 1 20 5 2-3	11	d 1 8 4 18 1 3 d 1 8 4 18 2
า า	e 4 8 1 0 2-4	6 Е Ų7	t 2 8 2 18 4 5-6
6E8	to 2 8 2 16 8 3-4-5-6-10	6EU8	t 2 8 2 18 9 7-8 pe 2 8 4 14 8 1-7-9
6EA4	t 2 8 2 16 5-6 2 8 12 34 * 6-10	6EV5	t 2 8 4 14 6 2-3 1 8 3 8 2-7 1-5-6
6EA5	*2-5-9-11 - Cont test 2-5-9-11 2 8 3 14 2-7 1-5-6	6EV7	Cont test 2-7 t 2 8 4 14 8 6-7
6EA7	Cont test 2-7 t 3 8 7 14 6 4-5	6EW6	t 2 8 4 14 3 1-2 2 8 3 12 2 1-5-6
6EA8	t 4 8 7 14 3 1-2	6EW7	t 2 8 5 14 9 1-2-3
11	t 2 8 4 14 8 1-9	71	t 1 8 5 8 8 6-7 Cont test 2-3
6EB5	d 1 8 3 10 1 7 d 1 8 3 10 5 2	6EX6 6EY6	4 8 7 14 3 5-8-10 2 8 2 14 8 3-4-5
6EB8	t 2 8 4 14 1 2-3 p 2 8 4 14 6 7-8-9	6EZ5 6EZ8	3 8 2 14 8 3-4-5 t 2 8 4 18 8-9
6EÇ4▲	4 8 4 14 10 2-7-8 Ignore glow on 2-7	11	t 2 8 4 18 6-7 t 2 8 4 14 1 2-3
" 6ED4▲	Cont test 2-7-8 2 8 4 26 1 8-10	6F6	3 8 2 24 8 3-4-5
†1	Cont test 1-2-3-6-7-9	6F19	Cathode short test-throw 1-3
6ЕҢ4	2 8 1 34 * 6-10 *2-5-9-11	6F21	together. Cont test 1-3 3 8 3 18 2 1-5-6-7
6EH5	Cont test 2-5-9-11 2 8 3 14 1 2-5-6-7	6F22	2 8 4 16 3 1-6-9 Cont test 2-7
6EH7	Ignore glow on 2 - Cont test 2-5 2 8 4 17 1-3 2-7-8-9	6F26	2 8 4 14 1-3 2-7-8 Cathode short test-throw 1-3
6EH8	Must show short on 1-3 pe 3 8 4 14 1-6 7-8-9	,, 6F29	together. Cont test 1-3 2 8 4 17 1-3 2-7-8-9
11	t 3 8 4 14 2-3 Cont test 1-6	fi	Must show short on 1-3
6EJ4	2 8 1 30 5 6-10	6F30	2 8 5 14 1-3 2-7-8-9 Cont test 1-3
6E.J.7	Cont test 2-9-11 2 8 5 14 1-3 2-7-8-9	6F33 6F35	3 8 3 16 2 1-5-6-7 2 8 3 14 2-7 1-5-6
6EL4	Cont test 1-3 1 8 7 18 * 5-10	6FD6	Cont test 2-7 pe 3 8 3 16 7 1-2-5-6
17	*1-3-4-6-8 Must show short on 1-3-4	6FD7	t 3 8 4 20 8 6-7 t 2 8 4 14 9 1-2-3
" 6EM5	May show short on 1-3-4-6-8 3 8 4 16 7 1-3-6-9	" 6FE 5	Ignore glow on 2 - Cont test 2-3 2 8 2 12 8 3-4-5
17	Ignore glow on 3 - Cont test 3-6	6FG7	t 2 8 4 14 3-8 1-2
6Е <u>М</u> 7	t 2 8 7 14 3 1-2	71	pe 3 8 4 14 3-8 6-7-9 Cont test 3-8
6EN4	2 8 7 30 * 5-6-10 *Cathode short test - throw	6Ғӊ5	2 8 3 14 1-7 2-5 Cont test 1-7
17	1-3-4-8 together Grid short test - throw 5-6	6FJ ₁ 7	t 2 8 12 16 9 10-11 t 2 8 12 14 7 3-5
6EQ7	together d 1 8 4 20 3 8	6 ғ м7	t 3 8 12 14 7 3-5-8 t 2 8 12 18 9 10-11
6ER5	pe 2 8 4 14 1-2-6-7 2 8 3 14 1-7 2-5-6	CEMO	Cont test 3-8 - Ignore glow on 3
11	Cont test 1-7	6FM8	t 3 8 4 20 7 8-9 d 1 8 4 8 3
6ES5	2 8 3 14 1-7 2-5 Cont test 1-7	6FQ5	d 1 8 4 8 1 6 2 8 3 12 1-7 2-5
		11	Cont test 1-7
▲ - USE	MAGNOVAL SOCKET	• - USE	NOVAR SOCKET

TUBE	A	В	C D	CATH SHORTS	TEST	TUBE	A	В	С	D	CATH SHORTS	TEST
6FQ7	t 2	8	5 18	3	1-2	6GN8	t 2	8	4	14	1	2-3
,,	t 2	8	5 18	8	6-7	"	pe 2	8	4	12	6	7-8-9
6FŖ7	t 2 t 2	-	4 12	8 9	6-7	6GQ7	d 2 d 2	8		14	1	2
11	t 2 Ignore	-	4 12 on 2	9	1-2-3	,,	d 2 d 2	8 8		14 14	7 9	6 8
6FS5	2		3 14	2-7	1-5-6	6GS7	t 2	8		18	38	1-2
	Cont te			_		';	pe 2	8		16		6-7-9
6FV6 6FV8	$egin{array}{ccc} 2 & 2 & \end{array}$	_	3 14 4 14	7 3	1-5-6 1-2	6GT5●	Cont to	est 3· 8		14	3	*
01 70	$\stackrel{\circ}{\text{pe}}$ $\stackrel{\circ}{2}$		1 14	8	6-7-9	1'	*1-2-6-				st 1-7	
6FW5	2		2 12	3	1-5-8	6GŲ 5	2	8		14	2-7	1-5-6
6FW8	t 2 t 2	_	4 14 4 14	8 3	6-7 1-2	6GU7	Cont to	est 2 [.] 8		16	3	1-2
6F <u>Y</u> , 5	2		3 12	1-7	2-5	"	t 2	8	5	16	8	6-7
	Cont te			_		6GY 5	2	8	12	14	4-10	*
6FY7	t 3 t 2		12 14 12 18	7 9	3-5 10-11	řt	*3-5-7-5 Cont te		-10 &	3	7-11 &	5-9
6FY8	t 2	8 4	4 16	8	1-9	6GV8	t 2	8	4	14	3	1-9
200	pe 2		1 14	2	3-6-7	COME	pe 3	8		14	8	2-6-7
6G5	t 2 e 4	-	1 20 1 0	5	2-3 2-4	6G₩5	t 2 Ignore	8 glow	3 on 2	16	5	1-2-6
11	-		ions fo	r eye t	est	6GW6	3	8	7	16	8	4-5-10
6G11	pe 2		14	2	3-4-6-7	66₩8	t 2 pe 2	8		18	2	1-9
6GA7	pe 2 d 4		l 14 l2 14	9 8	8-10-11 11	6GX6	pe 2 1	8 8		18 8	7 2	3~6 - 8 1-5-6-7
11	p 3	8 1	12 14	5	2-3-4-7	6GX7	\mathbf{t} $\mathbf{\bar{2}}$	8	4	16	1-3	8-9
6GB3	3		7 16	8	4-5-10	11	pe 3	8 glow		14		2-6-7
6GB5▲	3 *1-2-6-7		5 14 Ignore	3-8 glow c	-	6GY 5	Ignore 2	grow 8		-3 14	4-10	*
2.7	Cont te	st 3-8	3, 1-2	& 6-7		11	*3-5-7-9					
6GB6 6GB7	3 3	8 7 8 2	-	8	4-5-10 4-5-10	6GY6	Cont te	est 3- 8		& 8	5-9 & 4 2	-10 1-5-6-7
6GB9	ა 3	8 2		8 8	4-5-10	6GY8	t 1	8		8	L	1-3-6-7
6GC5	3	8 5	5 16	7	*	†† †1	t 1	8	5	8	8	3-9
11	*1-3-6-8 Cont te		8 & 3-6	!		6GZ5	t 4 pe 3	8 8		48 14	7 1	6 2-5-6-7
6GÇ6	2	8 2		3	4-5-8-9	0020	Ignore	glow	on 2		•	2 0 0 1
	Ignore			Cont te	st 4-8	6Н6	d 1	8		10	8	3
6GĘ5	3 *2-3-7-1	8 1 1 - Ie		4-10 low on	3	6HA5	d 1 3	8 8	_	10 14	4 2-7	5 1-5
6GE8	t 2	8 4	10	2	3-6	"	Cont te		7		_ ,	1.0
	pe 2	8 4		7	1-8-9	6нд6	pe 3	8		14	1	*
6GF5	3 *2-3-7-1		2 14 ont tes	4-10 t 4-10	•	6HB5	*2-3-6-7	8		14	4-10	ა− <i>ყ</i> *
6GF,7●	t 1	8 5	8	1	8-9	77 11	*2-3-7-1		gnore	e g	low on	3
6GH7	t 3 2	8 5 8 4		3 1-3	2-6 2-7-8-9	6HB6	Must sh	owsh 8		on - 12	4-10 1	*
echs	t 3	8 4		8	1-9	#1	*2-3-6-7			1.2	1	,
	pe 3	8 4	14	7	2-3-6	f1	Cont te	_				
6GJ,5	3 *1-2-6-7	8 5 10 -		3 est 1- 7	* & 2-6	6НВ7	t 2 pe 3	8 8		14 14	1 <i>-</i> 3 1 <i>-</i> 3	8-9 2-6-7
6Gរួ7	t 2	8 4		1-3	8-9	37	Ignore				1 0	20 7
	p 3 2	8 4		1-3	2-6-7	6НД5	pe 3	8	1 1	14	4-10	* 4-0-11
6G <u>K</u> 5	Cont te	8 3 st 1-7		1-7	2-5	6HD7	*3-5-7-9 t 2			18	1-3	n 4-9-11 8-9
6GĶ6	2	8 4	12	1	2-3-7-9	11	pe 3	8	4 1	16	_ -	2-6-7
6GK17	Ignore 2	glow o 8 7		3	5	6HE 5	Cont te			16	4-11	
6GL7	t 2	8 8		3	1-2	11	*2-3-6-9		۱ سـ		* 11	,
11	t 3	8 8	20	6	4-5	CITE O	Cont te					
6GM6	2	8 3	12	2	1-5-6-7	6HE7	pe 3 d 4			l 4 l 4	8 4	5-9-11 2
• - USI	E NOVAR SO	OCKET				▲ - USI	E MAGNOVA				-	

TUBE	A	В	C	D	CATH SHORTS	TEST	TUBE		A	В	С	D	CATH SHORTS	TES	<u>T</u>
6н <u>г</u> 5	2 *3-5-6-	8 8-9-1	12 1	14	4-10	*	6J ⁹	t t	2 2	8	5 5	16 16	3 10	1- 6-	
6Н <u>წ</u> 8	Cont to	est 4 8	1-10, 5	16	8 3-6 1	2-3	6J <u>1</u> 0	t pe	2 2 4	8	5 12 12	16 14	10 3	7- 2-9-1	8 1
6НС	pe 3 pe 3	8 8	5 4	14	6 2	7-8-9 1-5-6-7	6J <u>1</u> 1	pe pe	2 2	8 8 8	1	40 12 12	8 6	4-5-6- 2-3-4-	5
6НСВ	Ignore t 2	8	4	14 12	1-3	6-7	6ЈД5	pe	2	8	1 1	18		7-9-10-1 -3 <i>-</i> 6-9-1	
" 6HJ5	pe 2 Cont to pe 3	_	3 .12		1-3 2	2-8-9	** **	Cat	hode	sho	rt t	est	- thro	W	
n n	*3-4-5-1		0-11			•	t! 11	tes	t-th	row	2-9	toge	ther hrow		
6н.ј7	Ignore t 2 pe 2	8 8	4 4	16 16	1-3	8-9	" 6JA8	3-1		geth 8		18		2-	9
# 6# 10	Cont te	-		8	7	2-6-7	6JB5	t pe	2 3	8	4 12	18 18	1 6 4-11	7-8-	_
enke eH'18	d 1 pe 2	8 8	4	14	7 1	2-3-6-9	6952	*2-3	-6-9	-10			0-11		•
6 н қ5	Cont te		-7	14 18	2-7	1-5	61ÿ6 ●		3	8	4	14	3		*
6н <u>ц</u> 5 6н г 7			4 on 6		3 Cont to 1	1-2-7-9 est 1-2	" 6JC5						& 2-6 4-11		
OHL!	*2-3-7-8	3-9 -	Ign	ore	_		9969	*2-3	-6-9	-10			& 4-11	l	•
6Щ.8	t 3	8 8	5 5	16 14	8 7	1-9 2-3-6	6JÇ6		2	8 st 1	5	14	1-3	2-7-8-	9
6Н <u>М</u> 5	3 Cont te	8	4	14	2-7	1-5	61Ë8	pe t.	2 2	8 8	5 5	16 16	1-7	2-3-6 8-9	
6н,46	pe 3 Ignore	8	4	14 1	1-3	2-7-8-9	" 6JD5	-		st 1		18	4		*
6но 5	t 2 Ignore	8	3	14	2-7	1-5	11	*2-3 Mus		0-11			2-11 &	3-10	
6нŖ5	3 Ignore	8	3	20	2 Cont te	1-5-6-7 est 1-7	6JĎ6		3	8 st 1	5	14	1-3	2-7-8-	3
6HR6 6HŞ5	2 2	8	4	14 16	7	1-2-5-6 2-7-11	6J <u>E</u> 6●	*1-2	3	8	5	14	3	:	ķ
Pf Pf	Ignore Cont te	glow st 2	on	2-7		- /	" 6JE8	Cont	t te 2		-7 & 4	2-6 14	1	2-3	} *
6HS6 6HS8		8 8			7 1	1-2-5-6 2-7-8-9	" 6JF6	рe	2 2	8 8	4 4	12 18	6 3	7-8-9) *
" 6HT5	pe 2 2	8 8	4 1	14 24	5	2-3-6-7 6-10	* 17	*1-2- Con	-6-7 t te	-10 st 1	- Ig -2-6	nore -7	glow o	on 1-2-6	
6HT6	Cont te	st 2	-4-7 4	-9-1 14	1 1-3	2-7-8-9	6JG5 6JG6●		2 4	8 8	4 4	18 14	6 3	7-8-9 1-2-7-9	
" 6ну 5	Ignore 2	glow 8	on :	1 20	4	*	6JH5	Ü	2	8	1	1-2 16	- Cont 4	test 1-7	<i>;</i> *
11	*2-3-7-1 Must sh		hort	on i	2-3-7-1	0-11	*! !!		t te	st 2	-11,		0 & 7-8		
6нүв	pe 2 pe 2	8	4	18 18	7	2-3-6 3-6-8	!† !†	toge	the	r			hrow 2-		
6HZ 5	*2-3-7-1		1	18	4	*	\$,0 11 69	toge	the	r - :	Plate	e sh	hrow 3- ort tes		
6HZ6	Must sh	8	4	8	2	1-5-6-7	6ЈН6		3	8	ogetl 3	14	2	1-5-6-7	,
6HZ8	t 2 pe 2	8	4	14 12	1 6	2-3 7-8-9	6J#8	*1-2-		_		16	7	•	1
6J5 6J6	t 1	8	2	20 8	8 7	3-5 2-5	6JĶ5	*2-3-				18	4	*	:
6J7	t 1 2	8 8	3 2	8 16	8	1-6 3-4-5-10	11	shor	t te	est-	thro	w 2-	0 & 7-8 11 toge	ther	
		O 0222		***	, ,,,,,,,,	,,,,	77	ther	-P1	ate:			hrow 3- st-thro	10 toge- w 7-8	
• - USE	NUVAR S	JÇKET	· 🛦 -	· USE	s MAGNO	VAL SOCKET	J	toge	the	r					

TUBE	A	В	C D	CATH SHORTS	TEST	TUBE	A	В	С	D	CATH SHORTS	TEST
6JK6	t 2	8 8	4 14 5 14		1-5-6-7	6КН8	2	8	4	18	7	1-2
6J <u>K</u> 8	t 1	8	5 8	8	1-2 6-7	*1	2 2	8 8	4 4	18 18		2-3-9 6-8-9
6JL6 6JM6	3 ре 3	8 8	4 14 1 14		1-5-6-7 3-4-5-10	6 К Ļ8	pe 2 d 2	8 8	5 5	16 16	3	2-6-7
**	Ignore	glow	on 4			6КМ6●	2	8	4	16	3	8 *
6ЛИ6	pe 3 *3-4-7-1	8 10-11	1 14	2	*	"	*1-2-6- Ignore		on.	1-2-	-6	
6JN8	Ignore t 2	glow 8	on 4-1 5 14		1-2	" 6KM8	Cont to	est 1	-2-6	6-7		
11	pe 2	8	5 14	8	6-7-9	" " " " " " " " " " " " " " " " " " "	te 2 te 2	8 8	5 5	16 16	6	1-7-8 7-8-9
6JQ6	pe 2 d 2	8 8	4 18 4 26		1 - 2-3-7-8 6	**	te 2 d 1	8 8	5 5	16 18		2-7-8 3
†† ††	Ignore Cont te	glow	on 7 -	May gl	ow on 2	6KŅ6	4	8	12	14	2	*
6JŖ6●	4	8	5 14		1-2-6-7-9	7 ¶ 15		glow	on		5-9-10	·
6JS6	Cont te		7 - Ig 12 14	nore glo	ow on 1	6KN8	Cont to	est 3 8	-4-: 4	5-9-1 16	.0-11 8	6-7
}1 11	*3-4-5-9	9-10-1	1	10 & 5-	n	''	t 2	8	4	16	3	1-2
11 11	Do not	attac	h grid	lead to	o top	6KŖ8	t 2 pe 3	8 8	4 4	14 14	1 6	2-3 7-8-9
71	tube te Ignore			-5-9-10		6KS6 6KS8	- 4 t 2	8 8	3 4	38 18	1 1	2-5-6-7 2-3
6J <u>T</u> 6●	pe 3 *1-2-6-7	8	4 16	3	*	"	pe 2	8	4	16	6	7-8-9
6ЈТ8	t 2	8	1 gnore 5 16	glow or	2-3	6KT6 6KT8	t 2	8 8	4 4	16 14	1-3 1	2-7-8 2-3
6Л16⊕	pe 3 2	8 8	5 14 4 16		7-8-9 *	6KU8	pe 3 d 1	8 8	4 4	14 12	6 1	7-8-9
**	*1-2-6-7	-10				OAU O	d 1	8	4	12		3 2
**	Ignore Cont te			~ხ		6KV6	$\begin{array}{cc} \text{pe} & 2 \\ 2 \end{array}$	8 8	4 4	16 16	6 3	7-8-9 1-2-7-9
e1n'8	d 3 d 3		5 14 5 14		1-2-7-8 1-7	" 6KV8	Ignore t 2	glow 8	on 4			test 1-7 2-3
6ЈŸ8	t 2	8	5 16	1	2-3	6KY6	pe 2	8	4	16	i	2-7-8
6JX8	pe 2 t 2	8	5 14 4 18	3	7-8-9 8-9	6KY8●	Cont te	st 3 8	-9 4	18	1	8-9
61 <u>1</u> 8	h 2 t 2		$\begin{array}{ccc} 4 & 18 \\ 4 & 19 \end{array}$		2-6-7 2-3	6KZ8	pe 3	8	4	14 14	3 3	2-6-7
	pe 2	8	4 19	6	7-8-9	"	t 2	8	4	14	8	2-6-7 1-9
6J <u>Z</u> 6	2 Ignore	glow o	12 16 on 4-5	2 Cont te	3-4-5-10 st 4-10	6L6 6LB6	3 3	8 8	2 1	18 12	8 2	3-4-5 3-5-9-11
6JZ8	t 2 pe 3		12 18 12 14		2-10 4-6-7-8	, 17 17	Ignore Cont te		on	3-5-	9	
II GRG	Cont te	st 6-	7			6LB8	t 2	8	4	20	1	2-3
6K6 6K11	3 t 2	8 :	2 20 12 16	3	3-4-5 2-11	6LC6	pe 3 2	8 8	4 7	14 28	6 6	7-8-9 5-10
"	t 2 t 2		12 16 12 16	6 4	5-7 9-10	6LC8	Cont te	st 1.	-3-4 4		3-7	1-2
6КА8	t 2	8	5 16	3	1-2	"	pe 3	8	4	14	3-7	6-8-9
ekĎe	3	8 1	5 14 1 12	2	6-7-8-9 3-5-9-11	6LD6	3 Cont te	8 st 6:	4 -8 &	14 3-9	1	2-6-7-8
19	Ignore : Cont te		on 3-5- 4-5-9-1			6LE8	pe 2	8	4 4	18 18	3	1-8-9 6-8-9
6кр8	pe 2	8 :	5 16	7	2-3-6	6LF6	2	8	1	24	2	v-o-s *
6KË8	t 2 pe 2	8	5 16 5 14	8 7	1-9 2-3-6	77	*3-4-10- Must sh		ort	on 3	3-4 -1 0-3	11
6KF8	t 2 pe 3	8 3	5 16 1 14	8 1	1-9 2-3-6-7	6LF8	t 2	8	4	16	1	2-3
71	pe 3	8 4	1 14	1	2-7-8-9	6LG6	2	8 8	4 1	$\frac{16}{20}$	6 4-10	7-8-9 *
6KG6▲	2 *1-3-6-8	8 4 -10	16	9	*	11	*3-5-9-1 Must sh		ort	On S	R-4-5-0	-10-11
11	Ignore g	glow o				er#e	2	8	7	26	6	5-10
• - USE	NOVAR SC					▲ - US	Cont te E MAGNOVA					

TUBE	CATH A B C D SHORTS TEST		CATH CHORTS TEST
6LJ6	3 8 2 50 6 5-10	6MC6	3 *
6LJ8 6LM8	Cont test 1-3-4 t 2 8 4 14 3-8 1-2 p 3 8 4 14 3-8 6-7-9 Cont test 3-8, t 2 8 4 14 8 1-9	" *1-2-6-7-10 " Cont test 1-2-6-7 6MD8• t 2 8 4 18 " t 2 8 4 18 " t 2 8 4 18	7 3-6 2-8 1-9
11	pe 3 8 4 14 7 2-3-6	6ME6• 3 8 4 14 *1-2-6-7-10	3 *
erde• erй8	t 2 8 4 16 8 1-9 pe 2 8 4 16 7 2-3-6 3 8 5 14 3 *	" Cont test 1-2-6-7 6ME8 3 8 4 16	7 *
71	*1-2-6-7-8-10 Cont test 1-7 & 2-6	*1-2-3-6-8-9 6MF8 t 2 8 1 16	11 2-10
$6\Gamma \ddot{d}8$	t 2 8 4 14 1 2-3 pe 3 8 4 14 6 7-8-9	" pe 2 8 1 16	9 4-6-7-8 ont test 6-7
6LR6	4 8 12 14 2 * *3-4-5-9-10-11	6MG8 t 2 8 4 18	8 1-9
II CI DOA	Cont test 3-11, 4-10 & 5-9	6MH1 2 8 3 14	7 2-3-6 2 1-5-6-7
6LR8●	pe 2 8 4 16 3 2-6-7	" Ignore glow on 1-5 6MH6 2 8 1 24	2 3-4-10-11
6LT8 "	d 1 8 4 10 7 8 d 1 8 4 10 6	6MHH3 t 1 8 3 8	-4-10-11 7 2-5
6LU6	pe 2 8 4 16 1-7 2-3-9 2 8 3 18 2 1-5-6-7	" t 1 8 3 8 6MJ6• 3 8 5 14	3 *
6LŅ8	t 2 8 12 18 11 2-10 pe 4 8 12 14 9 4-6-7-8	" *1-2-6-7-8-10 Cont test 1-7 & 2-6	
67 <u>%</u> 6	Ignore glow on 6 - Cont test 6-7 2 8 1 24 2 *	6MJ8 t 2 8 1 18 t 2 8 1 18	3 6-8 4-10
**	*3-4-10-11 Must show short on 3-4-10-11	t 2 8 1 18 6MK8 pe 2 8 4 16	2-11 1 2-7-8
6L₩6	pe 3 8 7 14 2-6 1-3-5-10 Cathode short test-throw 2-6	" pe 2 8 4 16 6ML4 2 8 3 14	2-3-7 5 1-2-6-7
† † † †	together. Cont test 1-2-5-6 Ignore glow on 1	" Ignore glow on 1-2 " Cont test 1-2-6-7	
er¤e	2 8 12 16 2 * *3-4-5-9-10-11	6ML8 t 2 8 4 18 t 2 8 4 18	7 3-6 2-8
11	Do not attach grid lead to top tube terminal	" t 2 8 4 18 6MN8 t 2 8 1 18	1-9 3 2-11
F1 F1	Cont test 3-11, 4-10 & 5-9	" t 2 8 1 18	4-10
17 71	Grid short test - throw 5-9 together - Screen short test -	6MP17 3 8 3 20	6-8 2 1-5-6-7
11 11	throw 3-11 together Beam plate short test - throw 4-10	6MP18 3 8 3 18 "Ignore glow on 1 - Co	2 1-5-6-7 ont test 1-7
6LX8	together t 2 8 4 16 8 1-9	6MP20 2 8 3 18 6MQ8 t 2 8 4 21	2 1-5-6 8 1-9
6LŸ8	pe 2 8 4 16 7 2-3-6 t 2 8 4 18 1 2-3	pe 2 8 4 23 6MU8 t 2 8 5 19	7 2-3-6 8 1-9
6LZ6⊕	pe 2 8 4 16 6 7-8-9 2 8 5 18 3 1-2-6-7-9	" p 2 8 5 19 6MV8 t 2 8 4 18	7 2-3-6 1 2-3
6M11	Cont test 1-2-6-7 pe 1 8 12 8 10 2-3-11	6MX8 t 2 8 5 20 " pe 4 8 5 16	1 8-9 3 2-6-7
7 f	t 2 8 12 14 4 5-6 t 2 8 12 14 9 7-8	" pe 2 8 4 18 6MY8 t 2 8 12 18	6 7-8-9 11 2-10
6мд6	3 8 3 46 7 6-10 Cont test 2-4-5-8	" pe 4 8 12 14	9 4-6-7-8 ont test 6-7
" 6MB6	Good tube reads above 40 2 8 1 18 2 *	6N3 3 8 4 16 6PL12 t 2 8 4 14	3 9 8 3-6-7
orino !!	*3-4-5-9-10-11 Cont test 3-4-5-9-10-11	" pe 2 8 4 14	2 3-6-7 8 3-5
18 89	Do not attach grid lead to top	6Q8 to 2 8 2 16	8 *
6МВ8	tube terminal t 2 8 4 16 3 1-2 pe 2 8 4 16 8 6-7-9	" *3-4-5-6-10 " t 2 8 2 16	5-6
• - USE	NOVAR SOCKET	▲ - USE MAGNOVAL SOCKET	

TUBE	A	В	С	D	CATI SHOR		TUBE	A	В	С	D	CATI	
	t 2	8	1	16	3	2-11	6V9	t 2	- B 8	5	16	SHORT 9	7S TEST 8-10
6Q11 "	t 2	8	1	16	6	5-7	"	h 2	8	5	18	1	3-4-7
6R3	t 2 d 4	8 8	1 4	16 14	4 10	9-10 2-9	6 W 4	4 Allow	7 sufi	7 ficie:	14 nt he	3 eater	warm-up
" 6R4	Ignore 2	glow 8	on 4	2 16	3		6W6	time			16		-
6R8	t 3	8	4	24	7	1-8 8-9	6X4	3 p 4	8 8	2 3	14	8 7	3-4-5 1
11	d 1 d 1	8 8	4 4	8 8	3	2 1	6X5	p 4 p 4	8 8	3 2	14 14	8	6 3
m an ra	d 1	8	4	8		6	**	p 4	8	2	14	_	5
6RA6 6RA9	3 2	8 8	2 4	16 18	8 1	4-5-10 2-7-9	6X8	t 2 pe 2	8 8	4 4	14 14	6	2-3 1-7-8-9
" 6RB11	Cont te	est 2	-7 4	18	7	1-3-6-9	6x9	t 2	8 8	5 5	16 16	1 2	9-10 3-7-8
11	Cont te	st 3	-6		_		6Y 9	pe 2	8	5	16	7	8-9-10
68ӊн2	$egin{array}{ccc} t & 2 \ t & 2 \end{array}$	8 8	4 4	14 14	8 3	6-7 1-2	6Y10	pe 2 pe 2	8 8	5 12	16 16	2 9	1-3-4 8-10-11
6 R ҢН8	t 2	8	4	16	8	6-7	"	pe 2	8	12	16	2	3-6-7
6RK19	t 2 1	8 8	4 4	16 10	3 10	1-2 2-9	6Z4	p 4 p 4	8 8	1 1	14 14	5	2 3
6RP15	Ignore 2	glow 8	on 4	2 - 18	Cont 3	test 2-9 1-2-7-9	6Z1,0	pe 2	8 8	12 12	14 40	3 8	2-9-11 4-5-6-7
17		glow	on	1 -	-	test 1-2	7AU7	t 3	5	9	20	8	6-7
6RP22	2 *2-3-6-8	-8 1–9	4	16	1	*	,,	t 3 Cont 1	5 test	9 4-5	20	3	1-2
11 11	Ignore	glow	on	2-3-	6-8		7D10	3	8	4	14	3	2-7-8
654	Cont te	st 2. 8	-3-8 4	-9 14	2	3-6-9	7EY6 7GS7	t 2	9	2 4	14 18	8 38	3-4-5 1-2
6SA7		glow	on 2		Cont	test 3-6	- 11 11	pe 2	9	4 3-8	16		6 - 7 - 9
6SB7	2 2	8 8	2	14	6 6	3-4-5-8 3-4-5-8	7HG8	Cont t	9	3-8 4	14	1-3	6-7
6SĻ7	t 3 t 3	8 8	7 7	$\frac{24}{24}$	3 6	1-2 4-5	11	pe 2 Cont t	est	4 1-3	12	1-3	2-8-9
65 <u>N</u> 7	t 2	8	7	16	3	1-2	7KY 6	2	9	4	16	1	2-7-8
68Q7	t 2 t 1	8 8	7 7	16 8	6 3	4-5 2-6	7KZ6	Cont t	est 9	3~9 4	16	1	2-7-8
17	d 1 d 1	8 8	7 7	18 18		5	11	Contat		3-9	18		
6T8	$\bar{\mathbf{t}}$ $\bar{1}$	8	4	8	7	4 8-9	7мр18	3 Ignore	8 glo	w on		2 Cont	1-5-6-7 test 1-7
17	d 1 d 1	8 8	4 4	8 8	3	6 2	8AÇ9	pe 2 d 1	9	12 12	16 10	8 4	$\begin{array}{c} 91011 \\ 2 \end{array}$
11	d 1	8	4	8		1	11	Cont t	est	3			
6T9	t 2 pe 3	8 8	12 12	16 14	5 9	2-4 8-10-11	8AÇ10	t 2 t 2	8 8	$\begin{array}{c} 12 \\ 12 \end{array}$	16 16	4 6	9-10 5-7
6T10	pe 2	8	12 12	16	2	3-5-6-7	PATO	t 2	8	12	16	3	2-11
6U3	3	8	4	14 16	9 3	8 - 10 -11 9	8AĻ9	t 2 pe 2	9 9	1 1	20 20	6 9	5-7 2-10-11
6U 5	t 2 e 4	8 8	1 1	22 0	5	2-3 2-4	8AŖ11	pe 2 pe 2	9 9	12 12	14 14	6 11	2-3-4-5 7-8-9-10
f1 	See ins	truct	ions	for		test	8Aų8	t 2	9	4	14	1	2-3
6U8	t 2 pe 2	8 8	4 4	14 14	8 7	1-9 2 - 3-6	8AV11	pe 2 t 2	9 9	4 1	14 16	6 3	7-8-9 2 - 11
6ប ម្ភ	t 2	8	5	18	1	9-10	11	t 2	9	1	16	6	5-7
6U10	$egin{array}{ccc} \mathbf{pe} & 2 \ \mathbf{t} & 2 \end{array}$		$\frac{5}{12}$	16 18	2 3	3-7-8 2-11	8AW8	t 2 t 2	9 9 9	1 4	16 16	4 1	9-10 2-3
f1 f1	t 2 t 2	8	12 12	18	4 6	9-10	11	pe 2	9	4	14	6	7-8-9
6V3	4	8	4	18 14	10	5-7 2-7-9	8B8	pe 2	9 9	4 4	18 16	8 2	1-9 3-6-7
11	Ignore a	glow st 2-	on 2 7-9	2-7			8B10	t 2	9 9	12 12	16 16	2 7	3-4 5-6
6V6	3		2	20	8	3-4-5	11 11	d 1	9	12	10	9	8
								d 1	9	12	10	9	10
• - USE	NOVAR SO	CKET					▲ - USE	MAGNOV.	AL S	OCKET			

TUBE	A	В	С	D	CATH SHORT		TUBE		A	В	С	D	CATH SHORTS	TEST
8BA8	t 2	9	4	14	1	2-3	8GJ7	t	2	9		14	1-3	
11	pe 2	9	4	14	6	7-8-9	000	pe	3	9	4	14	1-2	8-9 2-6-7
8BA11	pe 2 pe 2	9 9	1 1	16 16	8 8	2-3-4-5 3-4-6-7	8GK6	Co: pe	nt to 2	est 9	1-3 4	12	1	2-3-7-9
8BH8	t 2 t 2	9 9	1 4	18 14	10 1	9-11 2-3	" 8GM6		nore 2	glo	w on 3			
10	pe $\tilde{2}$	9	4	14	6	7-8-9	8GN8	t	2	9	4	14	$\frac{2}{1}$	1-5-6 2-3
88M11	pe 2 pe 2 pe 2	9 9	12 12	16 16	10 5	7-9-11 2-3-6	8GU 7	pe t	2 2	9 9	4 5	12 16	6 3	7-8-9 1-2
8BN 8	ť 2	9	4	16 8	9	7-8	1 "	t	$\frac{\bar{2}}{2}$	9	5	16	8	6-7
**	d 1	9	4	8	3 2	6 1	8GX7	t pe	3	9 9	4 4	16 14	1 3	8-9 2-6-7
8B <u>Ņ</u> 11	pe 2 pe 2	9 9	12 12	16 16	8 2	7-9-11 3-4-5	8HA6	Igi	ore	glor	w on	1-3 14	1	*
8BQ 5	. 3	9	4	18	3	1-2-7-9	11		3-6-1	7-8-	9			
8BQ7	Ignore t 2	glow 9	on 4	1 -	8	test 1-2 6-7	8HG8	t	t te	est (6-8 <i>6</i> 4	& 3-9 14	,	6-7
8BQ11	t 2 pe 2	9 9	4 12	14 16	3 11	1-2 8-9-10	!! !!	pe Lor	2 ore	9 glov	4 von	12 1	1	2-8-9
	pe 2	9	12	16	6	2 - 3-5	8JE8	t	2	9	4	14	1	2-3
8BU11	t 2 t 2	9 9	12 12	16 16	2 5	3-4 6-7	8JK8	pe t	2 2	9	4 5	12 14	6 3	7-8-9 1-2
8CB11	pe 2 pe 2	9 9	12 12	16 14	11 6	8-9-10 2-3-4-5	" 8JT8	t t	1 2	9 9	5	8 16	8 1	6-7
"	pe 2	9	12	14	11	7-8-9-10	11	рe	3	9	5	14	6	2-3 7-8-9
8CG7	t 3	9 9	4 4	24 24	8 3	6-7 1-2	8ากี่ 8	d d	3 3	9 9	5 5	14 14	i	1-2-7-8 1-7
8CH8	t 2 te 2	9 9	4 4	14 14	3 8	1-2 6-7-9	8นั้น8	t	2 2	9	5 5	16 14	1 6	2-3
8СМ7	t 2	9	4	14	3	6-7	8K11	pe t	2	9	12	16	3	7-8-9 2-11
8CN7	t 2 t 2	9 6	4 9	14 18	9 6	1-8 7-8	11	t t	2 2	9 9	12 12	16 16	6 4	5-7 9-10
11	d 1	6	9	8	3	2	8KA8	t	2	9	5	16	3	1-2
11	Cont te		9 -5			1	8KR8	pe t	2 2	9 9	5 4	14 14	1	6-7-8-9 2-3
8C <u>S</u> 7	t 3 t 3	9 9	4 4	18 22	9 8	1-3 6-7	8KS8	pe t	3 2	9 9	4 5	14 19	6 1	7-8-9 2- 3
8CW5	2	9	4	12	3	*	17	pe t	2	9 9	5	20	6	7-8-9
**	*1-2-6-7 Ignore	glow	on :	16			8KT8	pe	2 2	9	4 4	14 14	1 6	2-3 7-8-9
8CX8	May sho t 2	w sho	rt 4	on 1 16	-2-6-7 1	-8-9 2-3	8rü8	t pe	2 3	9 9	4 4	16 14	3-7 3-7	1-2 6-8-9
	pe 2 2	9	4	14	6	7-8-9	8LE8	pe	3 2 2	9	4	18	3	1-8-9
8C <u>x</u> 5	Cont te	9 st 2-	3 ·7	14	2-7	1-5-6	8LS6	pe	2	9 8	4 4	18 18	1	6-8-9 2-7-8
8C <u>X</u> 7	t 2 t 3	9 9	4 4	18 40	8 9	6-7 1-2-3	8LÏ.8	Con d	t te 1	st 3 9	-9 4	10	7	8
n ana	Ignore	glow	on 2	2 - (Cont t	est 2-3	11	d	1	9	4	10		6
8D8	2 Cont te	9 st 2-	4	20	3	1-6-8-9	8rx8	pe t	2 2	9 9	4 4	16 16	1-7 8	2-3-9 1-9
8DX8	t 2 pe 2		4 4	14 14	3 7	1-2 6-8-9	., 8MD8●	pe t	2 2	9	4 4	16 18	7 7	2-3-6 3-6
8E#8	t 2	9	4	14	1	2-3	OMDO-	t	2	9	4	18	•	2-8
8EM5	pe 2 3	9	4 4	14 16	6 7	7-8-9 1-3-6-9	8MU8	t t	2 2 2 2	9	4 5	18 19	8	1-9 1-9
			on 3 4	} - (14	Cont to	est 3-6 7-8-9	8RHP1	pe t	2	999999999	5 4	19 18	7 8	2-3-6 1-9
8EŢ7	d 1	9	4	18	1	3	"	рe	2 2	9	4	16	2	3-6-7
8FQ7	d 1 t 2 t 2		4 5	20 18	3	$\frac{2}{1-2}$	8U 9	t pe	2 2	9 9	5 5	18 16	$\frac{1}{2}$	9-10 3-7-8
rī	t 2	9	5	18	8	6-7	8x9	t	2 2	9 9	5	16 16	1	9-10
						j		pe					2	3-7-8
• - USE	NOVAR SO	CKET					A - USE	E MAG	IAVO	, SO	CKET			

TUBE	A	В	С	D	CATH SHORT:	s test	TUBE	A	В	C	D	CATH SHORT		TEST
9A8	t 2	9	4	14	8	1-9	9RA6	2	10	5	18	1		2-7-9
9AH9	$egin{array}{ccc} \mathbf{pe} & 2 \\ \mathbf{t} & 2 \end{array}$	9 8	4 1	14 18	7 4	2-3-6 2-3	Grid s	Must sh Short test	- Th	nort			ther	
11	pe 2 Ignore	8 glow	1 on	16 5 -	7 Cont t	5-6-8-11 test 5-6	9RAL1	togethe t 3	r 10	4	20	8		6-7
9A Ķ 10	t 2 t 2	9 9	1	20 20	4	9-10	11	t 2	10	4	16	9		1-2-3
"	t 2	9	1	20	6 3	5-7 2-11	9RHR2	t 3	glow 10	4	2 - 14	Cont 8	test	1-9
9 YWT 0	t 2 t 2	10 10	1 1	18 18	4	9-10 5-7	908	$egin{array}{ccc} ext{pe} & 3 \ ext{t} & 2 \end{array}$	10 10	4 4	14 14	7 8		2-3-6 1-9
9AQ8	t 2 t 2	10 9	1 4	18 14	8	2-11 6-7	9V 9	pe 2 t 2	$\begin{array}{c} 10 \\ 10 \end{array}$	4 5	14 16	9		2-3-6 8-10
9AU7	t 2 t 3	9 7	4 9	14 20	3	1-2 1-2	9X8	h 2 t 2	10 10	5 4	18	1		3-4-7
<i>DAO</i> 1	t 3	7	9	20	8	6-7	"	pe 2	10	4	14 14	6	1.	2-3 -7-8-9
9BJ11	Cont to pe 2	10	12	16	10	7-9-11	10AF11	t 2	10 10	$\begin{array}{c} 12 \\ 12 \end{array}$	16 16	7 5		3-4 6-8
9BR7	pe 2 t 2	10 7	12 9	16 14	5 3	2-3-6 1-2	" 10AL11	pe 2 pe 3	10 10	12 12	14 14	9 9		-10-11 -10-11
**	d 1 d 1	7 7	9	8	8	7 6	10BQ5	pe 2	10	12 4	16 18	ž 3	3-	-4-6-7 -2-7-9
0000	Cont te	est 4	-5				" "	Ignore	glow	on	1 -	Cont		1-2
9CG8	t 2 pe 2	10 10	4 4	14 14	3-8	1-2 6-7-9	10ÇW5	2 *1-2-6-7		4	12	3		*
9CL8	Cont to	est 3 10	-8 4	14	3	1-2	17	Ignore May sho				-7 -2-6-	7-8-9	Э
9DZ8	te 2 t 2	10 10	4 4	14 22	8 8	6-7-9 1-9	10ДЕ7	t 3 t 3	10	4	22 16	8 9		6-7 1-2-3
9EA8	pe 2	10 10	4	20	2 7	3-6-7	10007	Ignore	glow	on	2 -	Cont	test	2-3
11	t 2	10	4	14 14	8	2-3-6 1 ₇ 9	10DR7	t 2 t 2	10	4 4	18 14	8 9		3-6 1-2-3
9ED4▲		9 est 1	4 -2-3	26 -6-7	1 '-9	8-10	10DX8	t 2	1 0	on :	2 - 14	Cont 3	test	2-3 1-2
96ӊ8	t 3 pe 3	9 9	4 4	14 14	8 7	1-9 2-3-6	10EB8	pe 2 t 2		4 4	14 14	7 1		6-8-9 2-3
9GŸ8	t 2 pe 3	10 10	4	14 14	3 8	1-2 6-7-9	10EG7	pe 2 t 2	10	4 7	14 16	6 6		7-8-9 4-5
9JÇ8	p̂e 2	10	5	16	1-7	2-3-6	17	t 2	10	7	12	3		1-2
11	Cont te			16		8-9	10EM7	t 2 t 2	10	7 7	16 14	6 3		4-5 1-2
9KC6 9KG6▲	2 2	$\begin{array}{c} 10 \\ 10 \end{array}$	4 4	16 16	1 9	2-7-9 *	10EW7	2 2		4 4	16 14	8 9		6-7 1-2-3
71	*1-3-6-8 Ignore		on	1-3-	6		" 10FD7	Ignore q t 3	10	on : 4	2 - 20	Cont 8	test	2-3 6-7
9KŸ8	Cont te					2-3	11 *	t 2		4	12	9 Cont	tost	1-2-3 2-3
	pe 3	10	4 4	14 16	6	7-8-9	10FR7	t 2	10 ·	4	12	8	COST	6-7
9 K X6	Cont te	st 3	-9		1	2-7-8	11		glow (12 2	9		1-2-3
9 K Z8	t 2 pe 3	10 10	5 5	14 14	8 3	1-9 2-6-7	10ĢF7⊕	t 1 t 3	10 10	5 5	8 14	1 3		8-9 2-6
9LĄ6	2 Cont te	9 st 3	4 -9	16	1	2-7-8	10GH8	t 3 pe 3		4 4	14 14	8 7		1-9 2-3-6
9МННЗ	t 2 t 2	9	3 3	14 14	7	2-5 1 <i>-</i> 6	10 ĢK6	pe 2		4	12	i		3-7-9
9мц8	t 2	10	4	18	7	3-6	10GN8	t 2	10	4	14	1		2-3
11	t 2 t 2	10 10	4	18 18	-	2-8 1-9	10GV8	pe 2 t 2	10 4	4 4	12 14	6 3		7-8-9 1-2
9му8	t 2 t 2	9 9	1 1	18 18	3	2-11 4-10	10HA6	pe 3 pe 3		4 4	14 14	8 1		6-7-9 *
" 9MP12	t 2 2	9 9 9	13	18 18	2	6-8 1-5-6	19	*2-3-6-7- Cont tes	-8-9	_		-		
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• - USE NOVAR SOCKET

TUBE		A	В	С	Ð	CATH SHORTS	TEST	TUBE		A	В	С	D	CATI		TEST
10HF8	t	2	10	5	16	1	2-3	11ÇA11	t	1	10	1	10	7		2-3
10JA5	pe	3 2	10 10	_	14 18	6 4-1 1	7-8-9 *	*1	t pe	1 1	$\begin{array}{c} 10 \\ 10 \end{array}$	1. 1	10 10	5 9		4-6 8-11
11			9-10 est :	2-9	& 3-1	0 & 4-	11	11CF11	May d	y sho 2	owsh 10	ort 1	on '	7 7		2-11
"	Cat	hod	e sho			- thro		11	d	2	10	1	20	8		9-10
11		ethe d s		tes	t - t	hrow 2	-9	11CH11	pe t	2 2	10 10	1	18 18	6 6		3-4-5 2-3-5
11 11		eth		n+ +	act -	throw	3-10	71	t	2 2	10 10	1 1	19	4	n	5-7
f1 # 0 # 4 0	tog	ethe	er					11 <u>C</u> Y7	p t	2	11	4	17 18	8 8	4-	-10 - 11 6-7
10JA8	t pe	2 2	10 10	4 4	18 18	1 6	2-3 7-8-9	"	t Tor	2 iore	11 glow	4 on	14 2 -	9 Cont	test	1-2-3
10,T18	t	2 3	10 10	5 5	16 14	1 6	2-3 7-8-9	11 DS 5		2	10	3	16	2	1-	5-6-7
10ЈҮ8	pe t	3	10	5	14	1	2-3	11FY7	ıgı t	ore 3	glow 10	on 12	1 - 14	Cont 7	test	1-7 3-5
10KR8	pe t	3 2	10 10	5 4	14 14	6 1	7-8-9 2-3	11HM7	ŧ	2 2	10 7	12 6	18 16	9 1		10-11 2-7-8
**	pe	3	10	4	14	6	7-8-9	11		it te	st 3	-4-	5-9			
10KU8	d d	1 1	10 10	4 4	$\frac{12}{12}$	1	3 2	11,јЕ8	t pe	$\frac{2}{2}$	11 11	4 4	14 12	1 6		2-3 7-8-9
" 10L14	pe t	2 2	10 13	4 5	16 14	6 8	7 - 8-9 6-7	11 KV8	\mathbf{t}	2	11	4	14	1		2-3
+1	t	2	13	5	14	8	1-2	11 <u>LQ</u> 8	pe t	3 2	11 11	4 4	14 14	6 1		7-8-9 2-3
10ĻB8	t pe	2 3	10 10	4 4	20 14	1 6	2-3 7-8-9	" 11LT8	pe d	3 1	11 10	4 4	14 10	6 7		7-8-9 8
10ĻD6	_	3	10	4	14	ĺ	2-6-7-8	"	d	1	10	4	10			6
10LE8	con pe	2	10	-8 4	18	3	1-8-9	11LY6	pe	2 2	$\begin{array}{c} 10 \\ 10 \end{array}$	4 4	16 18	1-7 1		2-3-9
 10LM8	pe t	2 2	10 10	4 4	18 14	8	6-8-9 1-9	11 11	*2-3	-7-8 t te		-9				
11	pe	3	10	4	14	7	2-3-6	11MS8	t	1	11	4	11	3		1-2
10ĻW8	t pe	2	10 10	4 4	16 16	1 6	2-3 7-8-9	11R3	pe	1 4	11 10	4	11 14	8 10		6-7-9 2-9
10ĻY8	t pe	2 2	10 10	4 4	18 16	1 6	2-3 7-8-9	11Y9			glow 10		2		0	
10ĻZ8	t	2	10	4	18	1	2-3	11	pe pe	2 2	10	5 5	16 16	7 2		-9-10 1-3-4
10P18	pe	2 2	10 14	4 4	18 14	6 3	7-8-9 *	12AC10	t t	2 2	11 11	12 12	16 16	4 6		9-10 5-7 *
†1 †1	*1-2		-8-9 glow		1_6			10400	ť	2	11	12	16	3		2-11
11	Cont	t te	st 1	-2-6	3-8-9			12AD6 12AE6	t	3 3	11 11	3 3	20 28	2 2	1-	5-6-7 1-7
10Ï10	pe pe	2 3	10 10	12 12	16 14	2 9	3-5-6-7 8-10-11	11	d d	1 1	11 11	3 3	18 18			6 5
10 <u>Z</u> 10	pe	2	10	12	14	3	2-9-11	12 <u>4</u> E7	t	2	8	9	14	8		6-7
11AF9	pe pe	4 2	10 10	12 5	40 16	8 7	4-5-6-7 8-9-10	11	t Con	2 t te	8 st 4-	9 -5	14	3		1-2
£1	pe May	2 shor	10 w sha	5 >rt	16 on 2	2	1-3-4	12AE10	pe	2 3	11 11	12 12	18 18	2 9		3-6-7 10-11
11AR11	pe	2	10	12	14	6	2-3-4-5	12AF4	рe	2	11	3	14	5		2-6-7
11BM8	pe t	2 2	10 10	12 4	14 14	8	7-8-9-10 1-9	+1			glow st 1-					
" 11 <u>B</u> N11	pe pe	2 2	10 10	$\begin{array}{c} 4 \\ 12 \end{array}$	14 16	2 8	3-6-7 7-9-11	12AF6 12AF11		2 2	11 11	4 12	14 16	7 7	1-:	2-5-6 3-4
	pe	$\frac{1}{2}$	10	12	16	2	3-4-5	**	t t	2	11	12	16	5		6-8
11 <u>B</u> Q11	pe	2	10 10	12 12	16 16	11 6	8-9-10 2-3-5	" 12AG6	pe	2 2	11 11	12 4	14 14	9 2		10 -11 5-6-7
11BT11	t	2 2		12 12	18 16	6 4	5-7 3-9	12AJ7	t	2	11	4	20	3		8-9
11		2	10	12	16	8	2-10-11	12AL8	h t	2 3	11	4 4	18 30	9]	1-2-6 1-8
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4 = 119P	NOVA	ם פר	ነቦኔምም	,				, HOR	WAG	7/13/A	, ,	and an				
<u>-</u> - ∪∆∆	HOTAL	n DC	'CEE I				ŧ	▲ - USE	MAGN	W VA	L SOC	al I				

TUBE	A	В	C D	CATH SHORT		EST	TUBE		A.	В	С	D	CATH SHORT		rest
TUBE 12AL11 12AQ5 12AQ6 "12AS5 12AY6 "12AT7 "12AU6 12AU7 "12AU8 12AY7 "12AX3 12AX4 12AX7 "12AX3 12AX4 12AX7 "12ABA6 12BB14 "12BB6 12BB14 12BB6 12BB6 12BB6 12BB6	pe 3 pe 2 3 Ignore t 1 d 1 d 1 d 1 d 1 d 1 d 1 d 1 t 2 t 2 Cont te t 3 t 3 Cont te t 2 pe 2 t 2 t 2 Cont te t 1 t 1 Cont te t 1 t 1 Cont te t 1 t 1 Cont te t 3 t 3 Cont te t 1 t 1 Cont te t 1 t 1 Cont te t 3 t 3 Cont te t 1 t 1 Cont te t 3 t 3 Cont te t 1 t 1 Cont te t 3 t 3 Cont te t 1 Ignore Cont te	11 11 11 11 11 11 11 11 11 11 11 11 11	12 14 16 3 18 18 2 - 3 3 18 3 18 3 18 3 18 3 18 3 18 3 18	9 2 2 Cont 2 Cont 2 8 3 7 8 3 1 6 8 3 7 3 8 3 1 7 3 8 3 1 7 3 8 3	8-10 3-4-1-5- test 1- 2-5- test 2- 1-2-5 1-2-5 1-2-5	0-11 -6-7 -6-7 -7-7 -6-7 -7-5 -6-7 -7-5 -6-7 -7-5 -7-5 -7-7 -7-5 -7-7	12BK6 " 12BL6 12BN6 12BN6 12BR3 12BR7 " 12BS3 12BT3 12BT6 " 12BU6 " 12BV7 " 12BV11 12BY7 12BZ6 12BZ7 " 12C5 12C8 " 12CA5 12CA5 12CM6 12CN5 12CM6 12CN5 12CR6 12CS6	t d d d d d d d d d d d d d d d d d d d	3112433 re 2114 e	11 11 11 11 11 11 11 11 11 11 11 11 11	33333324 on 99954 on 20 1133333336 If 11643 9953 on 2223 on 24 on 4 on 3 on 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	18 12 12 14 38 18 26 - 14 10 14 12 12 12 12 12 12 12 12 12 12 13 16 16 - 6 14 - 6 - 6 14 14 14 14 - 6 - 6 14 14 14 14 14 14 14 14 14 14 14 14 14	2 7 1 8 10 Cont 3 8 9 2 2 1 glow 8 5 1 Cont 3 9 Cont 7 Cont 1 Cont 1 2	on 3 7-! test 2 1-5- test 2-5- test 3-6 1-5-	1-7-65-67-09-2-7-6-7-2-7-6-6-7-2-7-2
12 <u>B</u> F6	2 t 3 d 1 d 1 pe 2 pe 2 t 3 t 3 Cont tes	11 3 11 3 11 3 11 3 11 12 11 12 8 9 8 9 8t 4-5 11 4	14 22 18 18 2 16 2 14 16 16	2 9 8 3	3-6 8-10-	1-7 6 5-7 -11 5-7 -2	11	d 1 pe 2	e g	11 11 11 10w 11 11 11 11 11 11	3 3 4 on 4 4 3	16 14 14 2 - 16 16	1 2 9 Cont 1 3 9	5- 1-5- test 2- 6- 2-5- test 2-	2 6-7 6-7 2-6 6 1-2 7-8 6-7 5

TUBE		A	В	С	D	CATH SHORT		TEST	TUBE	A	В	С	D	CATH	i S	TEST
12DB5		3	11	4	18	2-7	1-3	3-6-9	12ED5	_ 2		3	14	1		-5-6-7
F1	Igno Cont	re te	glowest 2	on :-3-	3 6-7				12EG6	Ignor a 2		v on 3	2 - 32	Cont 2	test	2-5 5-6-7
12DE8	pe	2	11 11	4	16	9	1-6	6-7-8	17	0 2	11	3	14			1-6
12DF5	d d	1 1	8	4 9	10 10	2 8		3 6	12EK6 12EL6	d 1	11	3 3	14 18	7 7		1-5-6 5
11	d Cont	1 te	8 et 4	9 -5	10	3		1	"	d 1 t 2	11 11	3 3	18 16			6 1 <i>-</i> 2
12DF7	t	3	8	9	20	3		1-2	12EM6	t 2	11	4	14	2		1-3-6
*1	t Cont	3 te	8 st 4	9 -5	20	8		6-7	12EN6	d 1	11 11	4 7	12 14	8		3-4-5
12DJ8	t t	2 2	11 11	4 4	14 14	8 3		6-7 1-2	12EZ6 12F8	pe 3	_	4 4	14 20	7 7	9	1-5-6 -3-8-9
12DK6	_	2	11	3	14	2	1-	5-6-7	12,0	d 1	11	4	16	•	2	-3-5-5 6
12DM4 12DM7	d t	4 1	11 8	8 9	12 10	3 8		5 6-7	12FK6	d 1 t 2	11 11	4 3	16 16	2		1 1-7
11	t	1 2	8 11	9	10	3	5 .	1-2 -8-10	11	d 1	11 11	3	8	-		6
12DN6 12DQ4		4	11	2 8	14 14	3 3	J-	5	12FM9	d 1 t 1	11	3	16	2		5 1-7
12DQ5	*1-4-	3 -5-8	11	_2 _ T	14 gnore	3-6	on 1-	* -4	" "	d 1 d 1	11 11	3 3	16 16			6 5
"	Cont	te	st 1	-3-	4−5 −6	8-8			12FQ7	t 2	11	5	18	3		1-2
12DQ6 12DQ7		3 2	11 8	2 6	16 14	8 1		-5-10 2-7-8	12FR8	t 2 pe 2		5 4	18 14	8 5		6-7 3 <i>-</i> 6-7
12DS7	Cont te	te 2	st 3	-9 4	14	8	•	3-6-7	!! !!	t 2	11 11	4	16 20	2 2		1-9 8
Tapo .	ď	1	11	4	14	·	•	9	12FS5	2	11	3	14	2-7		1-5-6
12DT5	đ	1 2	11 11	4	14 18	7		1 3-6-9	12FV7	Cont t 2		}-7 9	14	3		1-2
" 12DT6	Igno	re 2	glow 11	on 3	3 - 14	Cont 2	test 3	3-6 5-6-7	" 12FX5	t 2 pe 3		9 3	14 14	8 1	9	6-7 -5-6-7
12DT7	t	2	8	9	18	3	•	1-2	11	Ignor	e glow	on!	2-5			
12DU7	t te	2 2	8 11	9 4	18 12	8 2	1	6-7 L-3-6	12FX6	3 Cont	11 test 2	4 2-5	14	1	2	-5 -6 -7
7.9 99	d d	1 1	11 11	4 4	20 20			7 9	12FX8	t 2 h 2	11 11	4 4	16 14	7		6-8 1-2-3
12DV7	t	2	8	9	18	8		6-7	12FY8	t 2	11	4	16	8		1-9
	d d	1	8 8	9 9	26 26	1		2 3	12G11	p 2 pe 2	11 11	4 1	14 14	2 2	3	3-6-7 -4-6-7*
195VQ	Cont te	te 2	st 4	-5 4	14	2	q	8-6-7	12GB3	pe 2 3		1 7	14 16	9 8		-10-11 4-5-10
12DV8	đ	1	11	4	11	8	-	9	12GC5	3	11	5	16	7	•	*
12DW4•	d	1 4	11 11	4 4	11 14	9		1 2-7	, ,,	*1-3-6 Cont	-8-9 test 1	-8	& 3- (3		
12DW5	Cont	te 2		-7 4	21	7	1 _2	3-6-9	12ĢE5	3	11	12	16	4-10		*
12	Igno	re	glow	on	3 -	Cont	test 3	3−6	12ĢJ5 ●		11	5 5 T	16	3	III J	*
12DW7		2 2	8	9 9	14 16	8 3		6-7 1-2	11	*1-2-6 Cont	-7-10 test 1	-7	& 2-e	3		
12D\8	t	2 2	11	4	14	8		6-7	12GK17	4	11	7	14	3		5
11	đ	1	11 11	4	14 10	3 8		1-2 9	12GN7	2 *2-3-7		4-5		1		•
12DY8		2 2	11 11	4 4	12 14	2 7	1	3-6 8-9	" 12GT5•		e glow	on 5	3 - 14	Cont 3	test	4-5
12DZ6		2	11	3	14	7	1	-5-6	120100	*1-2-6	-7-9					
12DZ8	pe	2 2	11 11	4 4	22 20	8	3	1-9 -6-7	12GV5	2				4-10)	*
12E5 12E13	;	3 2	11 8	2 2	26 16	8 8	3	3-5 3-4-5	†† ††	*3-5-7	-9-11					9
12EA6		2	11	3	14	7	1	-5 -6	12GW6	3	11	7	16	8		4-5-10
12 <u>E</u> C8		2 2	11 11	4 4	12 14	8 3	6	1-2	12нВ25	*1-2-6	11 -7-10	- 1 _i	16 gnore	9 glow	on :	+ 1−6
• - USE				T	•				A - USI	Cont E MAGNO	test 1	-2-:	3-6-7	7-8		

TUBE	A	В	С	D	CATH SHORTS	TES	ST	TUBE		A	В	С	Ď	CATH SHORT		r
12HE7	d 4	8	10	14	4		2	12SN7	t	2	11	7	16	6	4-	5
**	pe 3	8	10	14	8	5-9-3			t	2	11	7	16	3	1-	2
12HG7	2 Cont te	8	6	16	1	2-7	-8	12SQ7	t d	3 1	11 11	7 7	22 16	3	2-0	6 4
12HL5	2	11	-9 4	18	3	1-2-7	-9	11	d	1	11	7	16		!	5
**		*IP		1 -		est 1-2	. 1	12SX7	t	3 3	11 11	7	20	3 6	1-: 4-	
12HL7	*2-3-7-8	-8 }9	6 Ton	16 ore	alow o	n 3	* [12SY7	t	3	11	$\frac{7}{2}$	20 18	6	3-4-5-	
F9	Cont te	st 3	-4-5	-9	•			12 <u>T</u> 10	pe	2	11	12	16	2	3-5-6-	
12 <u>H</u> U8	pe 2 pe 2	11 11	4 4	18 18	7	1-2- 6-8-		1207	pe t	3 3	11 8	12 9	14 20	9 8	8-10 - 13 6-1	
12JB6●	4	11	5	14	3	0.0	*	if if	t	3	8	9	20	3	1-5	2
11	*1-2-6-7 Cont te			2-6	2			12V6	Con	t te 3	st 4	-5 2	20	8	3-4-	5
12JF5	cont te	11			4-10	2-3-3	11	12W6		3	11	2	16	8	3-4-	-
ft 11	Do not	attac	ch g			o top		12X4	p	4	11 11	3 3	14 14	7		1 6
11	tube te			& 4.	-10		- 1	13CW4	p t	4 1	11	12	10	8	2-	
1F 17	Cathode	sho				w 4-10	1	13DE7	t	3	11	4	22	8	6-1	-
13	togethe Grid sh		test	_ 1	hrow 3	-11		**	t Ign	3 ore	11 glow	4 on	16 2 -	9 Cont	1-2-3 test 2-3	3
17	togethe		Lest			**		13 DR7	ť	2	11	4	18	8	6-	
12JM6	3 Ignore	11	1	14	2	3-4-5-3	10	#1	t Ion	2 ore	11	4 on	2 -	9 Cont	1-2-3 test 2-3	3
12JN6	pe 3	11	1	14	2		*	13EM7	t	2	11	7	18	6	4-	_
10.000	*3-4-7-1							13FD7	t t	2 2	11 11	7 4	12 16	3 8	1-7 6-1	
12 JN 8	t 2 pe 2	11 11	5 5	14 14	3 8	6-7	-2 -9	17	t	2	11	4	12	9	1-2-	
12 JQ6	pe 2	11	4	18	9		*	1 2 5347		ore 3		on 1	2 14	Cont 7	test 2-3 3-5-	۵
**	d 2 *1-2-3-7	11 '-8 -	4 Ign	26 ore	glow o	n 7	6	13FM7	t	2	11 11	1	18	9	10-1	_
	May glo	w on	2 -	Cor				11							test 3-8	7
12 <u>,</u> jS6	*3-4-5-9		12 11	14			*	13FR7	t t	2 2	11 11	4 4	12 12	8 9	6-1 1-2-3	-
11	Cont te	st 3	-11,				I	11	Ign	ore	glow		2	•		
91 91	Do not tube te	attac	ch g	rid	lead t	o top	I	13GB 5 ▲	*1-2	3 -6-7	11 '-10	5 - I⊈	14 more		on 1-6	*
12JT6●	pe 3	11	4	16	3		*	11	Con	t te	st 3	-8,	1-2	& 6-7	7	_
19170	*1-2-6-7					n 1-7 2-1		13ĢF7 ●	t t	1 3	11 11	5 5	8 14	1 3	8-: 2-:	
12JZ8	t 2 pe 3	11 11	12 12	18 14	11 9	4-6-7	-8	13J10	рe	2	11	12	14	3	2-9-1	1
12KA8	t 2	11	5	16	3		-2	 13JT8	pe	4 2	11 11	12 5	40 16	8 1	4-5-6-7 2-3	
12ĶL8	pe 2 pe 2	11 11	5 5 5	14 16	3	6-7-8- 2-6-		129,10	t pe	3	11	5	14	6	7-8-	9
	d 2	11	5	16		•	8	13 JZ8	pe	2 2	11	1	20 20	9	4-6-7-1 2-1	
12KY8	t 3 pe 4	11 11	5 5	14 16	1 3	2-6-	-9 -7	**	t Con		11 st 6	1 -7	20	11	2-1	v
12MD8●	t 2	11	4	18	7	3.	-6	13 <u>%</u> 10	рe	2	11	12	18	9	8-10-13 3-6-	
11	t 2 t 2	11 11	4 4	18 18			-8 -9	13Z10	pe pe	2 2	11 11	$\begin{array}{c} 12 \\ 12 \end{array}$	18 14	2 3	2-9-1	
12MX8●	t 2	11	5	20	1	8.	-9	11	pe	4	11	12	40	8	4-5-6-	
	pe 4 3	11 11	5 3	16 16	3 1	2-6- 2-5-6-		14BF11	pe pe	2 2	11 11	$\begin{array}{c} 12 \\ 12 \end{array}$	16 14	2 9	3-5-6- 8-10-1:	
12Ŗ5	_	glow		2 -		est 2-5	I	14BL11	t	2	11	12	18	6	5~	7
12RK19	1 Ignore	11 glow	4 on :	10 2 -	10	2· est 2-9	-9	31	pe pe	2 2	11 11	12 12	16 16	4 8	3-1 2-10-1	
12RLL3		8 8 8	9	14	8		-7	14BR11	t	2	11	12	18	5	6	8
11	t 2	8	9	14	3	1.	-2	17	t	2	11	12 12	18 16	7 4	9-10 2-3-10	
12RLL5	Cont te	st 4. 11	-5 5	18	3	1.	-2	14GT8	pe d	2 2	11 11	5	16	7	:	2
,,	t 2	11	5	18	8		-7	##	d	2	11	5	16	7	8-	6 a
							ı		t	2	11	5	18	•	0***	,
• - USE	NOVAR S	OCKET	•				ı	▲ - USE	MAG	NOVA	L SO	CKET	1			

TUBE	A	В	С	D	CATH SHORTS	TEST	TUBE	A	В	С	D	CATH		mpem
14GW8	t 2	11	4	18	2	1-9	16HB5	<u>^</u>	11	1	14			TEST *
14JG8	pe 2 d 2	11 11	4 5	18 16	7	3-6-8 2	71	*2-3-7-	11 -	Igno	ore p	glow o	n 3	*
11900	d 2	11	5	16	~	6	16KA6	Must s	11	1	t on 16	4-10 10		3-5
15AF11		11 11	5 12	20 16	7 7	8-9 3-4	16KH8	Cont t	12	4-11 4	18	7		1-2
***	t 2 pe 2	11 11	$\begin{array}{c} 12 \\ 12 \end{array}$	$\frac{16}{14}$	5 9	6-8 2-10-11	71	$\frac{2}{2}$	$\begin{array}{c} 12 \\ 12 \end{array}$	4 4	18 18			2-3-9 6-8-9
15BD11	t 2	11 11	12 12	18 14	7 5	3-4 6-8	16LD6	3 Cont to	11 est 4	4 1-10	14 & 3-	1 -7-11		6-7-8
1 5CW5	pe 2 pe 3	11 11	12 4	14 14	3	2-10-11	16ĻU8	t 2 pe 4	11 11	12 12	18 14	11 9		2-10 6-7-8
11	*1-2-6- Ignore			1-2-	6-7-8-9	1	16MY8	Ignore t 2	glow 11				test	
15 <u>E</u> A7	t 3 t 4	11 11	8	14 14	3 6	1-2 4-5	11	pe 4	11 glow	12	14	9		6-7-8
15EW6 15EW7	t 2	11 11	3 4	12 16	ž 8	1-5-6 6-7	16 <u>%</u> 9	Ignore pe 2	11	5	16	Cont 7	8	-9-10
11	t 2	11 glow	4	14 2 - (9	1-2-3	17AB10	pe 2 pe 2	11 11	5 1	16 16	2 3	2	1 <i>-</i> 3-4 -9-11
15FM7	Ignore t 3 t 2	11	12	14	7	st 2-3 3-5-8	17AV5	pe 4	11 12	1 2	40 18	8 3		5-6-7 1-5-8
11 1 CTT27	Cont to				9 ore glo		17AX3	Cont to			16	7		4-10
15FY7	t 3 t 2	11 11	12 12	14 18	7 9	3-5 10-11	17AX4 17AY3●	3 4	12 12	7 4	20 14	3 9		5 2-7
1 5НА6	pe 3 *2-3-6-7		4	14	1	*	17BB14	2	glow 11	4	14	3-8		*
15HB6	Cont te	11	-8 & 5	3-9 12	1	*	11	*1-2-6-7	7-10 est 1	- Ig	nore	glow -8	on 1	-6
f1 17	*2-3-6-7 Cont te		-9 &	6-8			17BD11	t 3 t 2	12 12	1 1	18 14	7 5		3-4 6-8
15KY8⊕	t 2 pe 4	11 11	5 5	20 16	1 3	8-9 2-6-7	" 17BE3	pe 2 1	12 12	ī 1	14 8	7	2-3	10-11 4-10
15ĻE8	pe 2 pe 2	11 11	4	18 18	3	1-8-9 6-8-9	17BF11	Ignore	glow 12	_		2	9 1	
15MF8	t 2 pe 2	11 11	1	16 16	11 9	2-10 4-6-7-8	"	pe 2	12	12	14	9		5-6-7 10-11
1 5MX8e	Ignore t 2		on 6		Cont tes	st 6-7	17BH3●		12 glow			9		2-7
11	pe 4	11	5	16	1 3	8-9 2-6-7	17BJ6 17BQ6	2 3	12 12	3 2	14 18	2 8		5-6-7 ° -5-10
16A8	t 2 pe 2	_	4	18 16	8 2	1-9 3-6-7	17BR3	2 Ignore	11 glow	4 on	2 - 6	10 Cont t	test 2	2-9 2-9
16AK9	t 2 pe 2	8	6	20 20	7 7	2-3 5-8-9	17BS3●	d 4 Ignore	12 glow	4 on :	$\begin{array}{c} 14 \\ 2 \end{array}$	9		2-7
11	t 2 Cont te	st 1-		20	7	10-11	17BW3	3 Ignore	12 glow	12 on	$\frac{16}{4}$	7		4-10
16AQ3	2 Ignore			12 -8	10	3-8-9	17BZ3	4	12 glow	12	12 4	7		4-10
" 16BQ11	Cont te			6-7- 20	8-9 6	2-3-4-5	17 <u>Ç</u> 9	te 3 te 3	12 12	5 5	14 14	10 6		-2-3 -8-9
16 <u>B</u> X11	pe 2 t 2			$\frac{20}{20}$	11 7 4	′-8-9 - 10 5-6	17ÇK3•	4	12	4	14	ğ Cont t		2-7
11	t 2 pe 2	12	1 :	22 20	9 10	7-8 2-3-11	17ÇL3 ●	4 Ignore	12	4	14	9		2-7
16CB28	*3-5-7-9	12			4-10	*	17CT3	4	12	4	14	9		2-6
" 16GK6	Cont te	st 4-		3-7-3 12		9 2-3-7-9	17ÇU5	Cont te	12	3	16	1	2-5	-6-7
16GY 5	Ignore	glow o	on 3			2-3-7-9 *	17D4	Ignore	12	7	16	3	est 2	5
1001.0	*3-5-7-9	-11			4-10		17DE4 17DG6	2 3	12	7 2	14 18	3 8	3	5 -4-5
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→ - 09E	NOVAR SO	JUKST				ı	▲ - USE	MAGNOVAI	_ SOC	KET				

K4XL's BAMA

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