

Date: Monday, August 25, 2008  
To: Simpson260.com  
From: Fred Scoles  
Subject: Information about the enclosed Simpson 1000 data charts

The data chart that is already on your website is the “Supplemental & Obsolete” list from the last half of the Operations Manual. It was also later reprinted in 3-62 as a separate document titled “Model 1000 Seldom Used and Obsolete Tube Supplement”. Therefore, I am not including this data list.

The main roller data chart I have included is labeled “Model No. 1000, January, 1962”. These photocopied pages were from an original paper roll housed inside a tester; which explains why there are some duplication of a few listings at the bottom and top of each page. This 1962 roll contains the main tube chart data that is not found on any of the “supplement” listings. It is one of the newer (latest) rolls Simpson had published. According to the enclosed 1965 Supplement pages, Simpson had published a May 1964 roller chart, but we have not yet found any copy of this 1964 roller (and may never will). The earliest known Simpson 1000 roller chart was 1954. I have enclosed only the 1962 roller chart because it contains all of the tube data listings that were ever contained in all the earlier roller charts, and the newer listings to that date. We also have file copies of the 1956, 1958, and 1960 roller charts.

The single handwritten data page contains the “missing data” from two places on this roller chart that were repaired years ago with the clear (aka “scotch tape”) tape that darkened the paper to the point of obscuring the data under the repair tape; these places photocopied as solid black. I transcribed this missing data to a page in my handwriting. Every Simpson 1000 roller chart that I’ve seen are all on very thick paper which became very brittle with age. This 1962 chart was in better physical condition than some others I’ve seen. Nowadays, we know to use an acid-free high quality library-quality repair tape on documents that need to last a long time. I’m not sure how you will be including or splicing in this “missing data”, so I have written the ID title lightly in pencil so it may get erased.

Simpson Model 1000 testers are one of the more respected emission-style tube testers, and are still commonly used today, even though the last units were sold new in 1962. It was well designed, durable, dependable, and easy to use. It was the model tube tester that the Eico (kit) company apparently copied (in about 1956) for their Eico Model 666 (and later the Model 667) testers, which became immensely popular. These Simpson and Eico testers are still used by many vintage Radio, HiFi and Electronics enthusiasts. They are bought and sold every day on the internet auction sites such as Ebay. The list price of a new Simpson 1000 was \$133, but only approx \$40 for an unassembled Eico kit.

This Simpson Model 1000 test data is useable with both the Simpson 1000 and the Eico 666 & 667 testers. These printed data listings can be easily set up on either brand tester by applying a simple data/nomenclature translation of the testers’ panel switches and knobs. I have included two photos (black & white, because I don’t have a color printer),

one photo of each of my Simpson 1000 and Eico 667 testers; that shows the panel switches translation (tape labels) from Simpson to Eico, or vice-versa. I will also email to you the color digital photos of these two panels, along with the MSWord file of this memo, so you may edit or use any portion of it. One could also write this panel translation information into a table or small chart, but everyone who has received these photos says they are easy to use with their Simpson or Eico testers.

The Simpson Model 1000 Nuvistor 5-pin adaptor, described on page 9 of the March '63 Supplement has a different pinout scheme from other brands of testers and the various adapter boxes. The Nuvistor data chart in this 1963 supplement matches only this Simpson adaptor's wiring scheme. The commonly found adaptor boxes such as the Eico Models 610 or 610A and the Coletronics B-16, have Nuvistor socket wirings which do not match this Simpson Nuvistor data chart!! This should not create a problem for anyone, because one should always carefully check the pinout diagram of a Nuvistor tube before testing it on a tube tester.

MODEL NO. 1000

JANUARY, 1962

OA2	50	0	20	215 555 500 002	A	A
OA3/VR-75		0	92	000 020 000 001	E	E
OB2	10	0	60	215 555 500 002	A	A
OB3/VR-90	6.3	0	90	010 020 000 001	E	E
OC3/VR-105	14	0	0	010 020 000 002	E	E
OD3/VR-150	70	0	73	010 020 000 001	E	E
OY4	S	0	63	001 020 000 000	C	E
OZ4 P1	S	0	60	000 020 010 001	CE	E
OZ4 P2	S	0	60	002 000 010 001		C
1AB5	1.25	33	45	122 004 000 012	BCF	B
1AB6-MIX.	1.25	15	85	032 024 100 023	BCEF	B
1AB6-OSC.	1.25	25	82	032 420 100 023	BCDE	B
1AD4	1.25	65	75	330 410 000 032	ABD	A
1AE4	1.25	7	95	022 004 100 002	BCF	B
1AF4	1.25	17	65	032 554 100 023	BCF	B
1AF5-PEN.	1.4	7	74	005 224 100 003	CDEF	E
1AF5-DIO.	1.4	7	74	005 224 100 005		C
1AG4	1.4	40	35	000 412 300 033	DFG	G
1AG5-PEN.	1.25	7	100	014 052 200 024	CEFG	G
1AG5-DIO.	1.25	7	100	014 052 200 025		E
1AH4	1.25	7	86	001 402 200 023	DFG	G
1AH5-PEN.	1.25	50	75	150 234 000 023	CDEF	E
1AH5-DIO.	1.25	0	75	152 234 000 033	C	C
1AJ4	1.25	15	65	032 554 100 023	BCF	B
1AJ5-PEN.	1.25	7	84	014 052 200 023	CEFG	G
1AJ5-DIO.	1.25	7	25	014 052 200 005		E
1AK4	1.25	7	0	001 402 200 024	DFG	G
1AN5	1.25	0	85	032 450 100 023	BCDF	B
1AM4	1.4	7	85	022 004 100 002	BCF	B
1AQ5-MIXER	1.4	7	54	022 050 100 023	BCDE	B
1AQ5-OSC.	1.4	7	24	022 050 100 023		C
1AR5-PEN.	1.4	20	65	005 224 100 023	CDEF	E
1AR5-DIO.	1.4	7	30	005 224 100 005		C
1AS5-PEN.	1.4	24	57	002 504 100 023	BCDF	B
1AS5-DIO.	1.4	7	30	002 504 100 005		D
1AX2	1.4	0	88	015 555 555 203	J	J
1AX4	1.4	0	86	100 555 055 203	J	J
1B3/8016	1.25	0	82	515 050 051 212	J	J
1DN5-PEN.	1.4	40	8	032 004 100 023	BCDF	B
1DN5-DIO.	1.4	0	35	000 200 100 023		D
1H2	1.4	0	0	515 550 550 323	J	J
1G3	1.25	0	83	515 050 050 212	J	J
1J3	1.25	0	70	515 050 050 224	J	J
1J5	1.25	0	85	515 050 050 323	J	J
1K3	1.25	0	70	515 050 050 213	J	J
1L4	1.4	7	92	022 004 100 002	BCF	B
1M3 TARGET FULL	1.4	75	90	455 105 530 025	AH	H
1M3 TARGET CLOSE	1.4	0	90	455 105 530 035		H
1N2	1.25	0	65	515 050 051 223	J	J
1R4/1294	1.4	7	17	100 500 000 005	G	D
1R5-MIX.	1.4	45	25	032 450 100 023	BCDF	B
1R5-OSC.	1.4	0	35	002 450 100 023	CDF	C
1S2	1.4	0	70	515 550 555 322	J	J
1S4	1.4	7	44	024 205 100 022	BCD	B
1S5-PEN.	1.4	20	65	005 224 100 023	CDEF	E
1S5-DIO.	1.4	7	29	005 224 100 005		C

6SN7-TRI.1	6.3	60	20	430 430 100 022	DEF	E
6SN7-TRI.2	6.3	60	20	430 430 100 022	ABC	B
6SQ7-TRI.	6.3	7	72	040 553 100 003	BCE	F
6SQ7-DIO.1	6.3	7	25	040 553 100 005	BE	E
6SQ7-DIO.2	6.3	7	25	040 553 100 005	BD	D
6SR7-TRI.	6.3	7	98	040 553 100 001	BCE	F
6SR7-DIO.1	6.3	7	25	040 553 100 005	BE	E
6SR7-DIO.2	6.3	7	25	040 553 100 005	BD	D
6SS7	6.3	25	19	010 402 030 012	CDEFH	H
6ST7-TRI.	6.3	7	0	040 553 100 002	BCE	F
6ST7-DIO.1	6.3	7	27	040 553 100 005	BE	E
6ST7-DIO.2	6.3	7	27	040 553 100 005	BD	D
6SU7-TRI.1	6.3	7	38	430 430 100 003	DEF	E
6SU7-TRI.2	6.3	7	38	430 430 100 003	ABC	B
6SV7-PEN.	6.3	35	39	040 253 100 012	BCDEF	F
6SV7-DIO.	6.3	7	0	040 253 100 005	EC	E
6SZ7-TRI.	6.3	7	89	040 552 100 003	BCE	F
6SZ7-DIO.1	6.3	7	30	040 552 100 005	BE	E
6SZ7-DIO.2	6.3	7	30	040 552 100 005	BD	D
6T4	6.3	35	71	241 005 500 021	ABE	A
6T7-TRI.	6.3	7	85	013 550 000 423	CHJ	C
6T7-DIO.1	6.3	7	30	013 550 000 405	EH	E
6T7-DIO.2	6.3	7	30	013 550 000 405	DH	D
6T8-TRI.	6.3	17	48	550 105 042 013	GHI	I
6T8-DIO.1	6.3	0	0	220 102 042 033	FG	F
6T8-DIO.2	6.3	0	0	220 102 042 033	BC	B
6T8-DIO.3	6.3	0	0	220 102 042 033	AG	A
6U4	6.3	0	71	000 020 100 000	CE	E
6U5/6G5-CLOSED	6.3	7	87	130 300 000 002	BE	B
6U5/6G5-OPEN	6.3	7	87	100 300 000 002		B
6U6	6.3	7	94	013 240 000 000	CDEH	C
6U7	6.3	27	30	013 200 000 412	CDEHJ	C
6U8-PEN.	6.3	50	10	042 103 000 012	BCFG	F
6U8-TRI.	6.3	38	92	200 100 004 011	AHI	A
6V3	6.3	0	70	020 100 505 000	BJ	B
6V4-P1	6.3	0	79	000 100 200 000	CG	G
6V4-P2	6.3	0	79	200 100 000 000	AC	A
6V5	6.3	36	90	002 240 100 000	CDE	C
6V6	6.3	76	0	013 240 000 001	CDEH	C
6V8-TRI.	6.3	7	81	350 104 505 023	AGH	A
6V8-DIO.1	6.3	7	0	350 104 505 005	CI	I
6V8-DIO.2	6.3	7	0	350 104 505 005	GH	G
6V8-DIO.3	6.3	7	0	350 104 505 005	BC	B
6W4	6.3	0	10	000 020 100 021	CE	E
6W5-P1	6.3	0	78	010 020 000 000	EH	E
6W5-P2	6.3	0	78	012 000 000 000	CE	C
6W6	6.3	80	0	013 240 000 021	CDEH	C
6X4-P1	6.3	0	86	001 002 000 000	FG	F
6X4-P2	6.3	0	86	201 000 000 000	AG	A
6X5-P1	6.3	0	85	010 020 000 000	EH	E
6X5-P2	6.3	0	85	012 000 000 000	CE	C
6X8-TRI.	6.3	70	18	042 100 000 022	BCF	C
6X8-PEN.	6.3	30	35	000 100 423 012	AFGHI	I
6Y5-P1	6.3	0	83	100 020 000 000	D	E
6Y5-P2	6.3	0	83	102 000 000 000		C
6Y6	6.3	60	85	013 240 000 000	CDEFH	C
6Y7-TRI.1	6.3	40	63	010 042 000 012	CDEFH	F

1S4	1.4	7	44	024 205 100 022	BCD	B	6Y5-P2	6.3	0	83	102 000 000 000		C
1S5-PEN.	1.4	20	65	005 224 100 023	CDEF	E	6Y6	6.3	60	85	013 240 000 000	CDEFH	C
1S5-DIO.	1.4	7	29	005 224 100 005		C	6Y7-TRI.1	6.3	40	63	010 042 000 012	CDEFH	F
1S6-PEN.	1.25	20	70	204 015 020 023	ACFH	A	6Y7-TRI.2	6.3	40	63	013 400 000 012		C
1S6-DIO.	1.25	7	20	204 015 020 005		F	6Z4/84-P1	6.3	0	83	102 000 000 000	D	C
1SA6	1.4	7	77	010 402 020 023	CD	H	6Z4/84-P2	6.3	0	83	120 000 000 000		B
1SB6-PEN.	1.4	20	69	013 250 040 023	CDEH	C	6Z5-P1	12.6	0	81	510 020 000 000	D	E
1SB6-DIO.	1.4	7	25	013 250 040 005		E	6Z5-P2	12.6	0	81	512 000 000 000		C
1T4	1.4	7	85	022 004 100 002	BCF	B	6Z7-TRI.1	6.3	25	80	010 043 000 012	CDEFH	F
1T5	1.4	39	54	012 240 000 022	CDE	C	6Z7-TRI.2	6.3	25	80	013 400 000 012		C
1U4	1.4	7	60	022 004 100 003	BCF	B	6ZY5-P1	6.3	0	37	010 020 000 021	EH	E
1U5-PEN.	1.4	24	57	032 504 100 023	BCDF	B	6ZY5-P2	6.3	0	37	012 000 000 021	CH	C
1U5-DIO.	1.4	0	60	032 304 100 032		D	7AN7-TRI.2	7.5	80	0	043 010 050 032	ABC	C
1U6-MIX.	1.4	7	96	033 021 100 023	BCDE	B	7AN7-TRI.1	7.5	80	0	000 014 053 032	FGI	I
1U6-OSC.	1.4	7	88	033 021 100 023		C	7AU7-TRI.2	6.3	45	25	240 102 405 012	ABCFGH	A
1V2	.625	0	35	555 105 552 024	I	I	7AU7-TRI.1	6.3	45	25	240 102 405 012		F
1V6-MIX.	1.25	14	79	120 042 200 034	BEFG	G	7EY6	7.5	50	10	013 240 000 001	CDEH	C
1V6-OSC.	1.25	14	79	120 042 200 034		B	8AU8A-TRI.	7.5	25	83	000 100 423 011	FGHI	I
1W4	1.4	33	71	122 004 000 022	BCF	B	8AU8A-PEN.	7.5	25	45	042 100 000 012	ABC	C
1X2-A-B	1.25	0	95	010 050 050 311	J	J	8AW8-A-TRI.	7.5	37	35	042 100 000 012	ABC	C
1Z2	1.4	0	3	105 505 000 223	J	J	8AW8-A-PEN.	7.5	25	77	000 100 423 011	FGHI	I
2AF4-A	2.8	10	57	241 005 500 001	ABE	A	8BA8-TRI.	7.5	15	23	042 100 423 012	ABC	C
2B3	1.75	0	76	510 000 050 202	J	J	8BA8-PEN.	7.5	15	85	042 100 423 011	FGHI	I
2BN4	2.0	7	75	041 025 500 012	ABE	E	8BH8-PEN.	7.5	28	83	000 100 423 011	FGHI	I
2CY5	2.8	35	0	401 032 500 022	ABEF	E	8BH8-TRI.	7.5	37	32	042 100 000 022	ABC	C
2D21 NON-COND.	6.3	0	40	401 042 500 030	ABEF	F	8BN8-TRI.	7.5	15	65	500 105 240 012	GHI	G
2D21 COND.	6.3	80	40	401 042 500 030		F	8BN8-DIO.1	7.5	0	65	200 102 540 032	FC	F
2E24	6.3	45	35	012 040 000 301	CEHJ	J	8BN8-DIO.2	7.5	0	65	200 102 540 032	AB	A
2E32	1.4	10	30	330 410 000 034	ABD	A	8BQ5	7.5	35	30	540 105 352 011	BCGI	G
2E36	1.4	10	30	330 410 000 034	ABD	A	8CG7-TRI.1	10	45	17	240 102 400 012	ABCFGH	F
2EA5	2.8	25	5	401 032 500 012	ABEF	E	8CG7-TRI.2	10	45	17	240 102 400 012		A
2EN5-DIO.1	2.0	0	15	021 000 000 032	BE	B	8CM7-TRI.1	10	7	68	200 102 440 012	CFG	F
2EN5-DIO.2	2.0	0	15	001 000 200 032	EG	G	8CM7-TRI.2	10	47	80	200 102 440 011	AHI	A
2ER5	2.5	10	20	041 032 500 022	ABEF	E	8CN7-TRI.	10	7	86	550 100 425 013	FGH	H
2ES5	2.5	60	85	041 032 500 021	ABEF	E	8CN7-DIO.1	10	7	100	550 100 425 015	BC	B
2EV5	2.8	35	5	401 032 500 022	ABEF	E	8CN7-DIO.2	10	7	100	550 100 425 015	AC	A
2FH5	2.5	28	0	041 030 500 022	ABEF	E	8CS7-TRI.2	7.5	50	75	354 105 500 021	ABH	A
2FQ5	2.8	0	27	401 020 500 012	ABEF	E	8CS7-TRI.1	7.5	50	65	555 105 340 021	GHI	G
2FY5	2.8	0	45	401 030 500 022	ABEF	E	8CX8-TRI.	7.5	30	38	043 105 000 022	ABC	C
2GK5	2.8	12	93	041 030 500 021	ABE	E	8CX8-PEN.	7.5	60	77	555 100 423 021	FGHI	I
2T4	2.8	7	55	341 005 500 021	ABE	A	8EB8-TRI.	7.5	30	58	043 100 000 012	ABC	C
2V2	2.5	0	65	010 050 000 302	J	J	8EB8-PEN.	7.5	70	58	040 100 423 011	FGHI	I
2X2/879	2.5	0	60	100 000 000 202	J	J	8CY7-TRI.1	7.5	60	40	000 103 400 013	EFG	E
3A2	3.6	0	60	515 555 550 212	J	J	8CY7-TRI.2	7.5	23	60	354 100 000 031	CDI	I
3A3	2.8	0	95	515 050 050 223	J	J	8EM5	7.5	20	20	254 105 053 011	ACGI	I
3A4	2.8	70	90	022 455 100 021	BCD	B	8ET7-PEN.	7.5	7	73	000 100 423 011	FGHI	I
3AF4	3.6	25	84	241 005 500 021	ABE	A	8ET7-DIO.1	7.5	0	25	022 100 400 022	AC	C
3AF4A	3.6	50	80	341 005 500 031	ABE	A	8ET7-DIO.2	7.5	0	25	022 100 400 022	AB	B
3A5-TRI.1	1.4	15	84	000 142 000 022	CE	F	8GN8-TRI.	7.5	0	63	043 100 000 003	ABC	C
3A5-TRI.2	1.4	15	84	024 100 000 022		B	8GN8-PEN.	7.5	7	80	000 100 423 001	FGHI	I
3AL5-P.1	2.8	0	0	001 000 200 032	AG	G	8SN7-TRI.1	7.5	59	16	420 420 100 012	DEF	E
3AL5-P.2	2.8	0	0	021 000 000 032	BE	B	8SN7-TRI.2	7.5	59	16	420 420 100 012	ABC	B
3AU6	2.8	40	35	401 032 000 012	ABEFG	E	9AQ8-TRI.2	10	28	0	340 100 000 022	ABC	A
3AV6-TRI.	3.6	24	0	401 055 200 013	ABG	G	9AQ8-TRI.1	10	28	0	000 103 400 022	FGH	F
3AV6-DIO.1	3.6	0	40	401 022 000 003	BF	F	9AU7-TRI.1	10	40	23	340 103 405 022	FGH	F
3AV6-DIO.2	3.6	0	40	401 022 000 003	BE	E	9AU7-TRI.2	10	40	23	340 103 405 022	ABC	A
3B2	2.8	0	35	515 555 050 213	J	J	9BR7A-TRI.	10	47	30	340 105 505 022	ABC	A
3B7/1291-TRI.1	2.8	45	34	100 504 200 012	CF	G	9BR7A-DIO.2	10	0	50	000 102 205 032	FH	F
3B7/1291-TRI.2	2.8	45	34	124 500 000 012		B	9BR7A-DIO.1	10	0	50	000 102 205 032	GH	G
3BA6	2.8	40	5	401 032 000 012	AEF	E	9CL8-PEN.	10	65	20	000 103 204 022	FGHI	F
3BC5	2.8	25	28	401 032 500 012	ABEF	E	9CL8-TRI.	10	17	0	420 100 000 012	ABC	B
3BFC-MIX	2.8	17	60	401 032 000 002	ABEFC	F	9D78-PEN	10	45	0	004 103 200 021	BCFG	F

3B7/1291-TRI.1	2.8	45	34	100 504 200 012	CF	G	9BR7A-DIO.2	10	0	50	000 102 205 032	FH	F
3B7/1291-TRI.2	2.8	45	34	124 500 000 012		B	9BR7A-DIO.1	10	0	50	000 102 205 032	GH	G
3BA6	2.8	40	5	401 032 000 012	AEF	E	9CL8-PEN.	10	65	20	000 103 204 022	FGHI	F
3BC5	2.8	25	28	401 032 500 012	ABEF	E	9CL8-TRI.	10	17	0	420 100 000 012	ABC	B
3BE6-MIX.	2.8	17	68	401 032 000 002	ABEFG	E	9DZ8-PEN.	10	45	0	004 103 200 021	BCFG	F
3BE6-OSC.	2.8	0	70	401 003 200 033	FG	F	9DZ8-TRI.	10	7	52	400 100 003 023	AHI	I
3BN4	2.8	7	44	041 025 500 021	AB	E	9U8A-PEN.	10	17	25	042 103 000 012	BCFG	F
3BN6	2.8	7	57	041 020 200 013	ABEG	G	9U8A-TRI.	10	35	92	200 100 004 011	AHI	A
3BU8-SEC.1	3.6	40	31	020 100 430 023	ACGH	H	9X8-TRI.	10	40	25	042 100 000 022	BCF	C
3BU8-SEC.2	3.6	40	31	023 100 400 023		G	9X8-PEN.	10	23	42	000 100 423 012	AFGHI	I
3BY6-SEC.1	2.8	15	55	401 032 000 012	ABEFG	E	10C8-TRI.	10	7	25	340 102 200 012	ABC	A
3BY6-SEC.2	2.8	7	50	001 032 400 012		F	10C8-PEN.	10	10	35	300 102 240 012	FGHI	F
3BZ6	2.8	40	90	401 032 000 011	ABEFG	E	10DE7-TRI.1	10	40	53	245 102 400 012	FGH	F
3C2	2.8	0	62	010 055 050 202	J	J	10DE7-TRI.2	10	12	33	245 102 400 021	ABI	A
3C4	1.25	15	75	132 504 000 022	BCF	B	10DR7-TRI.1	10	50	40	245 105 400 021	ABI	A
3C6/XXB-TRI.1	1.4	7	90	000 042 100 002	DE	F	10DR7-TRI.2	10	10	0	545 102 400 024	FGH	F
3C6/XXB-TRI.2	1.4	7	90	002 400 100 002		C	10EG7-TRI.1	10	10	63	430 430 100 022	DEF	E
3CB6	2.8	18	0	401 032 000 012	ABEFG	E	10EG7-TRI.2	10	20	0	430 430 100 031	ABC	B
3CE5	2.8	25	28	401 032 500 012	ABEF	E	10EM7-TRI.2	10	65	10	430 000 010 031	ABC	B
3CF6	2.8	40	95	401 032 000 011	ABEFG	E	10EM7-TRI.1	10	15	32	000 430 010 023	DEF	E
3CS6-SEC.1	2.8	25	30	401 032 000 023	ABEFG	E	10EW7-TRI.2	10	17	15	345 100 400 031	ABI	A
3CS6-SEC.2	2.8	27	25	001 032 400 023		F	10EW7-TRI.1	10	17	57	045 103 400 022	FGH	F
3CY5	3.6	35	0	401 032 500 022	ABEF	E	11C5	12.6	7	22	041 052 300 001	ABEFG	G
3D6/1299	2.8	29	5	132 004 500 022	BCF	B	11CY7-TRI.1	10	60	40	000 103 400 012	FGH	F
3DG4-P1	3.6	0	35	100 030 000 000	E	E	11CY7-TRI.2	10	23	23	354 100 000 031	ACI	A
3DG4-P2	3.6	0	35	100 000 300 000	G	G	12A4	12.6	7	65	045 100 502 001	ABI	I
3DK6	3.6	35	87	401 032 000 011	ABEF	E	12AB5	12.6	23	20	304 105 053 011	ACGI	I
3DT6	3.6	30	35	401 032 000 023	ABFEG	E	12AC6	12.6	7	40	401 022 000 034	ABEFG	E
3EA5	3.6	25	5	401 032 500 012	ABEF	E	12AD6-CONV.	12.6	0	33	401 022 000 034	ABEF	E
3E5	2.8	7	71	022 054 100 022	BCF	B	12AD6-OSC.	12.6	0	20	501 052 400 034	FG	F
3E6	2.8	20	89	122 054 000 022	DF	B	12AD7-TRI.1	12.6	7	35	340 103 405 013	FGH	F
3EH7	3.6	7	50	045 100 320 022	ABGHI	G	12AD7-TRI.2	12.6	7	35	340 103 405 013	ABC	A
3EJ7	3.6	15	78	045 100 320 011	ABGHI	G	12AE6-TRI.	12.6	14	20	401 055 200 034	ABG	G
3ES5	3.6	40	95	041 030 500 021	ABEF	E	12AE6-DIO.1	12.6	14	10	401 055 000 005	CF	F
3FH5	3.6	28	0	041 030 500 022	ABEF	E	12AE6-DIO.2	12.6	14	10	401 055 000 005	CE	E
3ER5	3.6	10	20	041 032 500 022	ABEF	E	12AE7-TRI.2	12.6	0	65	240 102 405 033	ABC	A
3EV5	3.6	35	5	401 032 500 022	ABEF	E	12AE7-TRI.1	12.6	70	45	240 102 405 032	FGH	F
3FQ5	3.6	0	27	401 020 500 012	ABEF	E	12AF3	12.6	0	25	555 105 553 010	IJ	I
3GK5	3.6	12	93	041 030 500 021	ABE	E	12AF6	12.6	15	35	401 032 000 033	ABEFG	E
3GS8-PEN.1	3.6	7	77	123 100 430 023	ABGHI	H	12AH7-TRI.1	12.6	40	38	402 042 100 012	ABCDEF	F
3GS8-PEN.2	3.6	7	77	123 100 430 023	ABCFG	C	12AH7-TRI.2	12.6	40	38	402 042 100 012		C
3Q4	2.8	35	29	024 255 100 022	BCD	B	12AJ6-TRI.	12.6	25	40	401 055 200 034	ABG	G
3Q5	2.8	45	27	012 240 050 022	CDE	C	12AJ6-DIO.1	12.6	25	20	401 055 200 005	BF	F
3S4	2.8	7	40	024 255 100 022	BCD	B	12AJ6-DIO.2	12.6	25	20	401 055 200 005	BE	E
3V4	2.8	30	34	032 054 100 022	BCF	B	12AL5-P1	12.6	0	0	001 000 200 032	AG	G
3W4	2.8	7	40	024 225 100 002	BCD	B	12AL5-P2	12.6	0	0	021 000 000 032	BE	B
4AU6	5.0	40	15	401 032 000 012	ABEFG	E	12AL8-TRI.	12.6	7	65	204 102 000 035	AHI	A
4BA6	5.0	14	91	401 032 000 001	EFG	E	12AL8-TET.	12.6	7	83	020 103 000 033	BCFG	F
4BC5	5.0	15	37	401 032 500 012	BF	E	12AQ5	12.6	67	97	401 032 500 000	ABEF	E
4BC8-TRI.1	5.0	7	13	240 102 400 012	FGH	F	12AT6-TRI.	12.6	17	0	401 055 200 013	ABG	G
4BC8-TRI.2	5.0	7	13	240 102 400 012	ABC	A	12AT6-DIO.1	12.6	0	55	401 022 000 033	BF	F
4BE6-MIX.	5.0	48	10	401 032 000 023	ABEFG	E	12AT6-DIO.2	12.6	0	55	401 022 000 033	BE	E
4BE6-OSC.	5.0	0	90	401 003 200 022	AFG	F	12AT7-TRI.1	12.6	65	30	340 103 405 022	FGH	F
4BN6	5.0	7	59	041 020 200 013	ABEG	G	12AT7-TRI.2	12.6	65	30	340 103 405 022	ABC	A
4BQ7-TRI.2	5.0	65	10	240 102 400 022	ABC	A	12AU6	12.6	40	0	401 032 000 012	ABEFG	E
4BQ7-TRI.1	5.0	65	10	240 102 400 022	FGH	F	12AU7-TRI.1	12.6	40	0	340 103 405 022	FGH	F
4BQ7A-TRI.1	3.6	7	43	240 012 400 002	FGH	F	12AU7-TRI.2	12.6	40	0	340 103 405 022	ABC	A
4BQ7A-TRI.2	3.6	7	43	240 012 400 002	ABC	A	12AV5	12.6	7	82	410 020 020 000	ACEH	E
4BS8-TRI.1	5.0	10	13	200 102 400 012	FGH	F	12AV6-TRI.	12.6	24	0	401 055 200 013	ABG	G
4BS8-TRI.2	5.0	10	13	240 102 000 012	ABC	A	12AV6-DIO.1	12.6	0	55	001 022 000 033	BF	F
4BU8-SEC.1	5.0	40	31	020 100 430 023	ABFGH	H	12AV6-DIO.2	12.6	0	55	001 022 000 033	BE	E
					AEF	E						FGH	F

4BQ7-TRI.2	5.0	65	10	240 102 400 022	ABC	A	12AU6	12.6	40	0	401 032 000 012	ABEFG	E
4BQ7-TRI.1	5.0	65	10	240 102 400 022	FGH	F	12AU7-TRI.1	12.6	40	0	340 103 405 022	FGH	F
4BQ7A-TRI.1	3.6	7	43	240 012 400 002	FGH	F	12AU7-TRI.2	12.6	40	0	340 103 405 022	ABC	A
4BQ7A-TRI.2	3.6	7	43	240 012 400 002	ABC	A	12AV5	12.6	7	82	410 020 020 000	ACEH	E
4BS8-TRI.1	5.0	10	13	200 102 400 012	FGH	F	12AV6-TRI.	12.6	24	0	401 055 200 013	ABG	G
4BS8-TRI.2	5.0	10	13	240 102 000 012	ABC	A	12AV6-DIO.1	12.6	0	55	001 022 000 033	BF	F
4BU8-SEC.1	5.0	40	31	020 100 430 023	ABFGH	H	12AV6-DIO.2	12.6	0	55	001 022 000 033	BE	E
4BU8-SEC.2	5.0	40	31	023 100 400 023	ACF	C	12AV7-TRI.1	12.6	20	80	240 102 405 001	FGH	F
4BX8-TRI.1	5.0	19	35	240 102 400 022	FGH	F	12AV7-TRI.2	12.6	20	80	240 102 405 001	ABC	A
4BX8-TRI.2	5.0	19	35	240 102 400 022	ABC	A	12AW6	12.6	19	39	401 032 000 012	ABEFG	E
4BZ6	5.0	40	85	401 032 000 011	ABEFG	E	12AX4	12.6	0	78	000 020 100 000	CE	E
4BZ7-TRI.2	3.6	7	40	240 102 400 012	ABCFGH	A	12AX7-TRI.1	12.6	0	0	340 103 405 014	FGH	F
4BZ7-TRI.1	3.6	7	40	240 102 400 012		F	12AX7-TRI.2	12.6	0	0	340 103 405 014	ABC	A
4BZ8-TRI.1	5.0	15	0	200 102 400 012	FGH	F	12AX7A-TRI.1	12.6	0	35	340 103 405 014	FGH	F
4BZ8-TRI.2	5.0	15	0	240 102 000 012	ABC	A	12AX7A-TRI.2	12.6	0	35	340 103 405 014	ABC	A
4CB6	5.0	7	25	401 032 000 012	ABEFG	E	12AY7-TRI.1	12.6	16	98	240 102 405 012	FGH	F
4CM4	3.6	15	84	340 105 555 021	ABC	A	12AY7-TRI.2	12.6	16	98	240 102 405 012	ABC	A
4CS6-SEC.1	5.0	15	0	401 032 000 023	ABEFG	E	12AZ7-TRI.1	12.6	7	20	340 103 405 002	FGH	F
4CS6-SEC.2	5.0	27	25	001 032 400 023	ABEFG	E	12AZ7-TRI.2	12.6	7	20	340 103 405 002	ABC	A
4CY5	5.0	35	0	401 032 500 022	ABEF	E	12B4A	12.6	60	70	045 100 503 020	ABI	I
4DE6	3.6	15	15	401 032 000 012	ABEFG	E	12BA6	12.6	13	0	401 032 000 002	ABEFG	E
4DK6	3.6	0	95	401 032 000 023	ABEF	E	12BA7-MIX.	12.6	7	80	300 100 403 022	ABCFGH	I
4DT6	5.0	30	15	401 032 000 023	ABEFG	E	12BA7-OSC.	12.6	7	98	300 100 403 021		A
4GS8-PEN.1	5.0	7	77	123 100 430 023	ABGHI	H	12BD6	12.6	22	20	401 032 000 012	ABEFG	E
4GS8-PEN.2	5.0	7	77	123 100 430 023	ABCFG	C	12BE6-MIX.	12.6	17	64	401 032 000 002	ABEFG	E
5A6	5.0	7	30	200 012 455 001	CG	A	12BE6-OSC.	12.6	0	72	401 003 200 033	FG	F
5AM8-PEN.	5.0	7	77	042 103 000 002	ABCFGHI	F	12BF6-TRI.	12.6	7	0	401 055 300 002	ABG	G
5AM8-DIO.	5.0	7	0	042 103 050 005		H	12BF6-DIO.1	12.6	7	25	401 055 300 005	BF	F
5AN8-TRI.	5.0	7	30	240 103 240 012	ABCFGHI	A	12BF6-DIO.2	12.6	7	25	401 055 300 005	BE	E
5AN8-PEN.	5.0	7	20	240 103 240 012		F	12BH7-TRI.1	12.6	20	90	340 103 405 021	FGH	F
5AQ5	5.0	65	0	401 032 500 001	ABEF	E	12BH7-TRI.2	12.6	20	90	340 103 405 021	ABC	A
5AR4/GZ34-P1	5.0	0	40	010 300 000 000	D	D	12BH7A-TRI.2	12.6	20	90	340 103 405 021	ABC	A
5AR4/GZ34-P2	5.0	0	40	010 003 000 000	F	F	12BH7A-TRI.1	12.6	20	90	340 103 405 021	FGH	F
5AS4-P1	5.0	0	40	010 300 000 000	D	D	12BK5	12.6	7	40	304 100 530 001	ACFH	A
5AS4-P2	5.0	0	40	010 003 000 000	F	F	12BK6-TRI.	12.6	7	90	401 055 200 003	ABG	G
5AS8-PEN.	5.0	45	35	240 105 003 022	ABCGI	I	12BK6-DIO.1	12.6	7	20	401 055 200 005	BF	F
5AS8-DIO.	5.0	7	5	240 105 003 005	FH	F	12BK6-DIO.2	12.6	7	20	401 055 200 005	BE	E
5AT8-TRI.	5.0	27	30	420 103 204 012	ABC	B	12BL6	12.6	7	59	401 022 000 033	ABEFG	E
5AT8-PEN.	5.0	30	35	420 103 204 012	FGHI	F	12BN6	12.6	7	59	041 020 200 003	ABEFG	G
5AU4-P1	5.0	0	82	010 003 000 000	F	F	12BQ6	12.6	70	0	010 240 000 321	DEHJ	J
5AU4-P2	5.0	0	82	010 300 000 000	D	D	12BR7-TRI.	12.6	50	30	340 105 505 022	ABC	A
5AV8-TRI.	5.0	7	20	042 104 023 012	ABC	C	12BR7-DIO.1	12.6	0	50	000 102 205 032	FH	G
5AV8-PEN.	5.0	12	20	000 104 023 012	FGHI	I	12BR7-DIO.2	12.6	0	50	000 102 205 032	GH	F
5AW4-P2	5.0	0	37	010 300 000 000	D	D	12BR7A-TRI.	12.6	47	30	340 105 505 022	ABC	A
5AW4-P1	5.0	0	37	010 003 000 000	F	F	12BR7A-DIO.2	12.6	0	50	000 102 205 032	FH	F
5AZ4-P1	5.0	0	57	010 003 000 000	F	F	12BR7A-DIO.1	12.6	0	50	000 102 205 032	GH	G
5AZ4-P2	5.0	0	57	010 300 000 000	D	D	12BT6-TRI.	12.6	7	80	401 055 200 003	ABG	G
5B8-TRI.	5.0	40	5	042 104 023 012	ABC	C	12BT6-DIO.1	12.6	7	20	401 055 200 005	BF	F
5B8-PEN.	5.0	10	30	000 104 023 011	FGHI	I	12BT6-DIO.2	12.6	7	20	401 055 200 005	BE	E
5BE8-TRI.	5.0	64	67	420 103 240 011	ABCFGHI	B	12BU6-TRI.	12.6	7	0	401 055 300 002	ABG	G
5BE8-PEN.	5.0	0	35	400 103 240 012		F	12BU6-DIO.1	12.6	7	25	401 055 300 005	BF	F
5BK7-TRI.2	5.0	15	95	240 102 400 001	ABC	A	12BU6-DIO.2	12.6	7	25	401 055 300 005	BE	E
5BK7-TRI.1	5.0	15	95	240 102 400 001	FGH	F	12BV7	12.6	56	56	040 105 325 011	ABCGH	G
5BQ7-TRI.2	5.0	65	35	240 102 400 022	ABC	A	12BW4-DIO.1	12.6	0	83	350 010 300 000	GI	G
5BQ7-TRI.1	5.0	65	35	240 102 400 022	FGH	F	12BW4-DIO.2	12.6	0	83	350 010 300 000	AI	A
5BR8-TRI.	5.0	20	75	420 100 000 001	ABC	B	12BY7	12.6	15	55	040 105 325 001	ABCGH	G
5BR8-PEN.	5.0	7	65	000 103 204 002	FGHI	F	12BZ7-TRI.1	12.6	25	5	240 102 405 023	FGH	F
5BT8-PEN.	5.0	12	33	550 103 240 012	FGHI	F	12BZ7-TRI.2	12.6	25	5	240 102 405 023	ABC	A
5BT8-DIO.1	5.0	7	0	550 103 240 005	AC	A	12C5	12.6	7	98	041 052 200 000	ABFG	G

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5BT8-DIO.2	5.0	7	0	550 103 240 005	BC	B	12CA5	12.6	19	5	051 042 200 001	ABFG	G
5BZ7-TRI.1*	5.0	7	23	240 102 400 002	FGH	F	12CM6	12.6	7	30	304 105 003 011	ACGI	I
5BZ7-TRI.2	5.0	7	23	240 102 400 002	ABC	A	12CN5	12.6	7	65	041 052 200 032	ABFG	G
5CG8-TRI	5.0	25	10	420 103 250 012	ABC	B	12CR6-PEN.	12.6	15	15	051 032 400 002	AEFG	E
5CG8-PEN.	5.0	45	25	020 103 254 012	CFGJ	F	12CR6-DIO.	12.6	0	22	051 032 400 005	AB	B

\* 6.3 V on 1958 & 1960 Charts

5CL8-TRI.	5.0	12	0	420 100 000 012	ABC	B	12CS6-SEC.1	12.6	18	35	401 032 000 023	ABEFG	W
5CL8-TET.	5.0	65	30	000 103 204 022	FGHI	F	12CS6-SEC.2	12.6	27	25	001 032 400 023	FG	F
5CL8A-TRI.	5.0	10	0	420 100 000 012	ABC	B	12CT8-TRI.	12.6	45	19	240 103 200 012	ABC	A
5CL8A-TET.	5.0	65	20	000 103 204 022	FGHI	F	12CT8-PEN.	12.6	35	83	200 103 240 011	FGHI	F
5CM6	5.0	30	52	204 105 002 001	ACGI	I	12CU5	12.6	7	96	041 052 200 000	ABFG	G
5CM8-TRI.	5.0	7	15	340 103 204 013	AHI	A	12CU6	12.6	70	0	010 240 000 321	DEHJ	J
5CM8-PEN.	5.0	20	18	340 103 204 012	BCFG	F	12CX6	12.6	70	57	401 022 000 032	ABEFG	E
5CZ5	5.0	50	25	204 105 053 011	ACGI	I	12D4	12.6	0	70	550 020 100 000	CE	E
5DH8-PEN.	5.0	60	25	000 103 204 022	CFGHI	F	12DA6	12.6	55	15	540 105 320 022	BCGHI	G
5DH8-TRI.	5.0	57	20	430 100 000 022	ABC	B	12DB5	12.6	70	0	204 105 553 021	ABCI	I
5EA8-PEN.	5.0	42	0	542 103 005 012	BCFG	F	12DE8-PEN.	12.6	0	45	405 102 030 033	AFGHI	F
5EA8-TRI.	5.0	35	12	345 105 004 022	AHI	A	12DE8-DIO.	12.6	0	0	502 105 030 032	BC	C
5FG7-TRI.	5.0	45	88	430 100 050 021	ABC	B	12DF5-TRI.1	12.6	0	60	000 103 005 031	FH	F
5FG7-PEN.	5.0	25	15	000 103 254 012	CFGH	F	12DF5-TRI.2	12.6	0	60	300 100 005 031	AC	A
5FV8-TRI.	5.0	58	90	430 105 204 021	ABC	B	12DF7-TRI.1	12.6	40	25	340 103 405 002	FGH	F
5FV8-PEN.	5.0	45	62	450 103 204 022	FGHI	F	12DF7-TRI.2	12.6	40	25	340 103 405 002	ABC	A
5GH8-TRI.	5.0	80	0	342 100 004 022	AHI	A	12DL8-TET.	12.6	87	93	504 102 205 032	BCFG	F
5GH8-PEN.	5.0	65	90	042 103 000 011	BCFG	F	12DL8-DIO.1	12.6	0	40	304 105 203 032	AH	A
5J6-TRI.2	5.0	25	35	221 044 000 012	ABEFG	A	12DL8-DIO.2	12.6	0	40	304 105 203 032	HI	I
5J6-TRI.1	5.0	25	35	221 044 000 012		B	12DK7-TET.	12.6	15	25	402 105 355 032	ABCG	G
5R4-P1	5.0	0	43	010 003 000 000	F	F	12DK7-DIO.1	12.6	0	0	402 102 552 033	BF	F
5R4-P2	5.0	0	43	010 300 000 000	D	D	12DK7-DIO.2	12.6	0	0	402 102 552 033	BI	I
5T4-P1	5.0	0	30	010 003 000 000	F	F	12DM5	12.6	10	22	041 052 300 001	ABFG	G
5T4-P2	5.0	0	30	010 300 000 000	D	D	12DQ6	12.6	40	0	010 240 000 321	DEHJ	J
5T8-TRI.	5.0	17	48	550 105 042 013	GHI	I	12DQ6A	12.6	40	0	010 240 000 321	DEHJ	J
5T8-DIO.1	5.0	0	0	220 102 042 033	FG	F	12DQ7	12.6	13	0	040 105 320 022	ABCGH	G
5T8-DIO.2	5.0	0	0	220 102 042 033	BC	B	12DS7A-TRI.	12.6	85	70	554 103 200 032	CFGH	F
5T8-DIO.3	5.0	0	0	220 102 042 033	AC	A	12DS7A-DIO.1	12.6	0	70	254 105 202 033	AH	A
5U4-P1	5.0	0	41	010 003 000 000	F	F	12DS7A-DIO.2	12.6	0	70	254 105 202 033	HI	I
5U4-P2	5.0	0	41	010 300 000 000	D	D	12DT5	12.6	40	73	254 105 053 021	ACGI	I
5U8-TRI.	5.0	38	92	200 100 004 011	AHI	A	12DT8-TRI.2	12.6	70	23	240 105 400 012	ABC	A
5U8-PEN.	5.0	50	10	042 103 000 012	BCFG	F	12DT8-TRI.1	12.6	70	23	540 102 400 012	FGH	F
5V3-P1	5.0	0	40	010 300 000 000	F	F	12DU7-TET.	12.6	20	90	402 103 000 031	ABCF	F
5V3-P2	5.0	0	40	010 003 000 000	D	D	12DU7-DIO.1	12.6	0	0	000 100 202 034	BG	G
5V4-P1	5.0	0	76	010 002 000 000	F	F	12DU7-DIO.2	12.6	0	0	000 100 202 034	BI	I
5V4-P2	5.0	0	76	010 200 000 000	D	D	12DV7-TRI.	12.6	45	80	000 102 405 033	FGH	F
5V6	5.0	21	98	013 340 000 000	CDEH	C	12DV7-DIO.1	12.6	0	0	022 100 005 034	AB	B
5W4-P1	5.0	0	46	010 003 000 000	F	F	12DV7-DIO.2	12.6	0	0	022 100 005 034	AC	C
5W4-P2	5.0	0	46	010 300 000 000	D	D	12DV8-TET.	12.6	42	66	004 103 200 022	BCEF	F
5X3-P1	5.0	0	60	103 000 000 000	C	C	12DV8-DIO.1	12.6	0	0	200 100 002 033	AH	A
5X3-P2	5.0	0	60	130 000 000 000	B	B	12DV8-DIO.2	12.6	0	0	200 100 002 033	HI	I
5X4-P1	5.0	0	40	000 030 100 000	E	E	12DW7-TRI.2	12.6	80	20	340 105 405 022	ABC	A
5X4-P2	5.0	0	40	003 000 100 000	C	C	12DW7-TRI.1	12.6	15	55	540 103 405 023	FGH	F
5X8-TRI.	5.0	70	15	042 100 000 022	BCF	C	12DW8-TRI.2	12.6	10	40	240 102 402 032	ABC	A
5X8-PEN.	5.0	25	25	000 100 423 012	AFGHI	I	12DW8-TRI.1	12.6	60	85	240 102 402 032	FGH	F
5Y3-P1	5.0	0	55	010 003 000 000	F	F	12DW8-DIO.	12.6	0	35	240 102 402 032	GI	I
5Y3-P2	5.0	0	55	010 300 000 000	D	D	12DY8-TET.	12.6	10	85	402 103 054 031	ABCF	F
5Y4-P1	5.0	0	57	000 030 100 000	E	E	12DY8-TRI.	12.6	0	65	405 105 024 023	GHI	H
5Y4-P2	5.0	0	57	003 000 100 000	C	C	12DZ6	12.6	22	34	401 032 000 032	ABEFG	E
5Z3-P1	5.0	0	35	103 000 000 000	C	C	12DZ8-PEN.	12.6	68	0	004 103 200 021	BCFG	F
5Z3-P2	5.0	0	35	130 000 000 000	B	B	12DZ8-TRI.	12.6	0	0	400 100 003 024	AHI	I
5Z4-P1	5.0	0	76	010 002 000 000	F	F	12E5	12.6	7	73	012 040 000 002	CEH	C
5Z4-P2	5.0	0	76	010 200 000 000	D	D	12EA6	12.6	7	75	401 032 004 032	ABEFG	E
6A5	6.3	7	79	012 040 050 000	CEH	C	12EC8-TRI.	12.6	10	65	430 105 204 032	ABC	B
6AB4	6.3	7	21	301 004 000 002	AFG	A	12EC8-PEN.	12.6	15	58	450 103 204 033	FGHI	F
6AB7/1853	6.3	40	94	010 402 030 011	CDEFH	H	12ED5	12.6	40	70	041 052 300 021	ABFG	G
6AB8-TRI.	6.3	62	10	340 010 000 022	ABC	A	12EF6	12.6	10	55	013 240 000 001	CDEH	C
6AB8-PEN.	6.3	38	22	000 013 024 022	CFGHI	F	12EG6-MIX.	12.6	7	78	401 032 000 033	ABEFG	E
6AC5	6.3	75	20	013 040 000 001	CH	C	12FG6-OSC	12.6	7	14	001 032 400 033	FG	F



6AB7-TRI.1	6.3	40	54	010 402 030 011	ABEF	12E05	12.6	40	70	041 052 300 021	ABFG	G
6AB8-TRI.	6.3	62	10	340 010 000 022	ABC	12E06	12.6	10	55	013 240 000 001	CDEH	C
6AB8-PEN.	6.3	38	22	000 013 024 022	CFGHI	12E6-MIX.	12.6	7	78	401 032 000 033	ABEFG	E
6AC5	6.3	75	20	013 040 000 001	CH	12E6-OSC.	12.6	7	14	001 032 400 033	FG	F
6AC7	6.3	12	13	010 402 030 012	CDEFH	12EH5	12.6	20	60	041 052 300 021	ABFG	G
6AD4	6.3	20	70	401 000 030 033	AEH	12EK6	12.6	7	70	401 032 000 032	ABEFG	E
6AD7-PEN.	6.3	7	78	413 312 000 001	CDEH	12EQ7-PEN.	12.6	73	7	040 102 300 022	ABCFG	G
6AD7-TRI.	6.3	7	40	413 312 000 003	AFH	12EQ7-DIO.	12.6	0	45	040 100 020 033	CH	H
6AE5	6.3	86	39	012 040 000 032	CEH	12EL6-TRI.	12.6	10	0	431 000 000 034	ABG	B
6AE6-REMOTE	6.3	20	76	013 340 000 002	CDEH	12EL6-DIO.1	12.6	0	60	401 022 000 033	EG	E
6AE6-SHARP	6.3	20	84	013 340 000 002		12EL6-DIO.2	12.6	0	60	401 022 000 033	FG	F
6AE7-SEC.1	6.3	7	58	013 104 000 022	CFH	12EM6-TET.	12.6	0	60	402 103 000 022	ABCF	F
6AE7-SEC.2	6.3	7	58	013 401 000 022	CDH	12EM6-DIO.	12.6	0	50	400 100 002 033	BI	I
6AF3	6.3	0	25	555 105 553 010	IJ	12EN6	12.6	10	90	513 245 000 010	CDEH	C
6AF4	6.3	25	84	241 005 500 021	ABE	12F5	12.6	7	94	010 200 000 403	DHJ	D
6AF5	6.3	7	34	012 040 000 022	CEH	12F8-PEN.	12.6	16	0	223 102 040 034	BCHI	C
6AF6-CLOSED	6.3	7	20	013 330 000 003	EH	12F8-DIO.1	12.6	0	0	223 102 040 033	FG	F
6AF6-OPEN	6.3	7	20	010 030 000 003		12F8-DIO.2	12.6	0	0	223 102 040 033	AG	A
6AG5	6.3	30	70	401 032 500 011	ABEF	12FK6-TRI.	12.6	30	38	401 000 200 033	ABG	G
6AG7	6.3	70	32	015 402 030 011	DEFH	12FK6-DIO.2	12.6	0	50	001 022 000 033	EB	E
6AH4	6.3	65	50	410 020 000 021	AEH	12FK6-DIO.1	12.6	0	50	001 022 000 033	FB	F
6AH6	6.3	7	15	401 032 000 002	ABEFG	12FM6-TRI.	12.6	0	25	401 055 300 033	ABG	G
6AH7-TRI.1	6.3	40	38	402 042 100 012	ABCFE	12FM6-DIO.1	12.6	0	60	501 022 500 022	BE	E
6AH7-TRI.2	6.3	40	38	402 042 100 012		12FM6-DIO.2	12.6	0	60	501 022 500 022	BF	F
6AJ4	6.3	10	55	405 535 105 001	ABE	12FQ8-TRI.4	12.6	0	0	343 103 434 024	ABI	A
6AJ5	6.3	7	78	401 022 500 033	ABEF	12FQ8-TRI.3	12.6	0	0	343 103 434 024	BCI	C
6AJ8-MIX.	6.3	52	27	400 103 200 003	ACFG	12FQ8-TRI.2	12.6	0	0	343 103 434 024	FGI	F
6AJ8-OSC.	6.3	38	47	040 103 200 013	BCFG	12FQ8-TRI.1	12.6	0	0	343 103 434 024	GHI	H
6AJ8-TRI.	6.3	50	80	000 100 034 032	CHI	12FR8-DIO.	12.6	0	30	404 100 030 032	BH	H
6AK5	6.3	23	36	401 032 500 012	ABEF	12FR8-TRI.	12.6	0	25	404 100 003 033	ABI	I
6AK6	6.3	50	89	401 032 000 011	ABEFG	12FR8-PEN.	12.6	40	87	404 102 300 032	CFG	G
6AK8-TRI.	6.3	17	27	550 105 042 013	GHI	12FX8-HEPT.	12.6	50	60	243 100 004 033	ABCGH	C
6AK8-DIO.1	6.3	7	0	220 102 000 033	FG	12FX8-TRI.	12.6	0	0	000 104 030 033	FH	H
6AK8-DIO.2	6.3	0	40	220 100 000 032	BC	12FY8-TRI.	12.6	50	0	400 100 003 033	AHI	I
6AK8-DIO.3	6.3	0	40	220 100 000 032	AG	12FY8-PEN.	12.6	20	20	404 103 200 021	BCFG	F
6AL5-P1	6.3	0	0	001 000 200 032	AG	12G4	12.6	30	20	201 054 000 012	AFG	A
6AL5-P2	6.3	0	0	021 000 000 032	BE	12GC6	12.6	12	0	010 240 050 321	CDEJ	J
6AL7-WIDE	6.3	15	50	413 444 000 004	CDH	12J8-TET.	12.6	20	84	402 102 055 031	ABCF	F
6AL7-NARROW	6.3	7	0	413 111 000 004		12J8-DIO.1	12.6	7	15	402 102 055 005	GI	I
6AM4	6.3	35	33	405 525 105 012	ABE	12J8-DIO.2	12.6	7	15	402 102 055 005	GH	H
6AM5	6.3	65	0	401 030 200 022	ABEG	12J7	12.6	16	40	013 200 000 423	CDEHJ	C
6AM6	6.3	48	68	401 030 200 022	ABEFG	12K5	12.6	7	23	041 025 300 031	ABEG	G
6AM8-PEN.	6.3	29	17	042 103 050 002	ABCFI	12K8-MIX.	12.6	7	81	013 202 000 002	CDEFHJ	C
6AM8-DIO.	6.3	7	0	042 103 050 005	GH	12K8-OSC.	12.6	7	64	013 202 000 002	F	F
6AN4	6.3	7	93	341 005 500 001	ABE	12L6	12.6	7	89	013 245 000 010	CDEH	C
6AN5	6.3	7	95	401 022 500 021	ABEF	12L8-PEN.1	12.6	7	39	404 321 030 002	ABEH	H
6AN6-P1	6.3	0	66	100 020 000 032	EF	12L8-PEN.2	12.6	7	39	404 321 030 002	BCDE	D
6AN6-P2	6.3	0	66	100 200 000 032	DF	12R5	12.6	7	95	041 052 200 000	ABFG	G
6AN6-P3	6.3	0	66	102 000 000 032	CF	12S8-TRI.	12.6	7	20	505 502 100 404	BFJ	F
6AN6-P4	6.3	0	66	120 000 000 032	BF	12S8-DIO.1	12.6	7	20	505 502 100 405	CE	C
6AN7-MIX.	6.3	7	93	240 105 224 002	ABCFG	12S8-DIO.2	12.6	7	20	505 502 100 405	BD	D
6AN7-OSC.	6.3	7	64	240 105 224 002		12S8-DIO.3	12.6	7	20	505 502 100 405	AB	A
6AN8-PEN.	6.3	50	93	240 103 240 011	FGHI	12SA7-MIX.	12.6	7	78	013 200 000 002	ACDEFH	C
6AN8-TRI.	6.3	15	94	240 103 240 001	ABC	12SA7-OSC.	12.6	7	42	013 200 000 002	D	D
6AQ5	6.3	70	5	401 032 500 001	ABEF	12SC7-TRI.1	12.6	7	50	034 430 100 003	DEF	E
6AQ6-TRI.	6.3	7	90	401 055 200 003	ABG	12SC7-TRI.2	12.6	7	50	034 430 100 003	BCF	B
6AQ6-DIO.1	6.3	7	30	401 055 200 005	BF	12SF7-PEN.	12.6	61	93	040 253 100 011	BCDF	F
6AQ6-DIO.2	6.3	7	30	401 055 200 005	BE	12SF7-DIO.	12.6	7	20	040 253 100 005	CE	E
6AQ7-TRI.	6.3	7	25	505 430 100 003	DEF	12SG7	12.6	31	17	010 452 030 012	CDEFH	H
6AQ7-DIO.1	6.3	7	20	505 430 100 005	AC	12SH7	12.6	58	97	010 452 030 011	CDEFH	H
6AQ7-DIO.2	6.3	7	20	505 430 100 005	AB	12SJ7	12.6	17	0	010 402 030 023	CDEFH	H
6AQR-TRI.2	6.3	40	10	340 100 000 022	ABC	12SK7	12.6	25	13	010 402 030 012	CDEFH	H

6AQ7-DIO.1	6.3	7	20	505 430 100 005	AB	V	12SH7	12.6	58	97	010 452 030 011	CDEFH	H
6AQ7-DIO.2	6.3	7	20	505 430 100 005	AB	A	12SJ7	12.6	17	0	010 402 030 023	CDEFH	H
6AQ8-TRI.2	6.3	40	10	340 100 000 022	ABC	A	12SK7	12.6	25	13	010 402 030 012	CDEFH	H
6AQ8-TRI.1	6.3	40	10	000 103 400 022	FGH	F	12SL7-TRI.1	12.6	7	28	430 430 100 003	DEF	E
6AR5	6.3	65	33	401 022 000 001	ABEF	E	12SL7-TRI.2	12.6	7	28	430 430 100 003	ABC	B
6AR6	6.3	7	73	003 131 400 000	ACEG	C	12SN7-TRI.1	12.6	60	80	430 430 100 011	DEF	E
6AR8-P1	6.3	7	75	003 104 033 002	ABCFGHI	H	12SN7-TRI.2	12.6	60	80	430 430 100 011	ABC	B
6AR8-P2	6.3	7	75	003 104 033 002		I	12SQ7-TRI.	12.6	7	72	040 553 100 003	BCF	F
6AS5	6.3	7	25	041 052 200 001	ABFG	G	12SQ7-DIO.1	12.6	7	25	040 553 100 005	CE	E
6AS6	6.3	35	67	401 022 000 012	ABEF	E	12SQ7-DIO.2	12.6	7	25	040 553 100 005	CD	D
6AS7-TRI.1	6.3	7	82	420 420 100 020	DEF	E	12SR7-TRI.	12.6	7	98	040 553 100 001	BCF	F
6AS7-TRI.2	6.3	7	82	420 420 100 020	ABC	B	12SR7-DIO.1	12.6	7	25	040 553 100 005	CE	E
6AS8-PEN.	6.3	45	35	240 105 003 022	ABCGI	I	12SR7-DIO.2	12.6	7	25	040 553 100 005	CD	D
6AS8-DIO.	6.3	7	5	240 105 003 005	FH	F	12SW7-TRI.	12.6	7	0	040 553 100 002	BCF	F
6AT6-TRI.	6.3	17	0	401 055 200 013	ABG	G	12SW7-DIO.1	12.6	7	30	040 553 100 005	CE	E
6AT6-DIO.1	6.3	0	55	401 022 000 033	BF	F	12SW7-DIO.2	12.6	7	30	040 553 100 005	CD	D
6AT6-DIO.2	6.3	0	55	401 022 000 033	BE	E	12SX7-TRI.1	12.6	52	20	420 420 100 012	DEF	E
6AT8-TRI.	6.3	27	35	420 103 204 012	ABC	B	12SX7-TRI.2	12.6	52	20	420 420 100 012	ABC	B
6AT8-PEN.	6.3	40	40	420 103 204 012	CFGHI	F	12SY7-MIX.	12.6	7	72	013 200 000 002	ACDEFH	C
6AU4	6.3	0	70	000 020 100 000	CE	E	12SY7-OSC.	12.6	7	35	013 200 000 002		D
6AU5	6.3	33	90	410 020 020 010	ACEH	E	12SY7GT-MIX.	12.6	7	72	013 200 000 002	CDEFH	C
6AU6	6.3	55	0	401 032 000 012	ABEFG	E	12SY7GT-OSC.	12.6	7	35	013 200 000 002		D
6AU7-TRI.1	6.3	40	18	340 103 405 022	FGH	F	12V6	12.6	50	0	013 240 000 001	CDEH	C
6AU7-TRI.2	6.3	40	18	340 103 405 022	ABC	A	12W6	12.6	85	0	013 240 000 021	CDEH	C
6AU8-PEN.	6.3	12	90	000 100 423 011	FGHI	I	12X4-P1	12.6	0	86	001 002 000 000	FG	F
6AU8-TRI.	6.3	7	75	042 100 000 002	ABC	C	12X4-P2	12.6	0	86	201 000 000 000	AG	A
6AU8A-PEN.	6.3	27	85	000 100 423 011	FGHI	I	13DE7-TRI.1	12.6	40	53	005 102 400 022	FGH	F
6AU8A-TRI.	6.3	17	34	042 100 000 012	ABC	C	13DE7-TRI.2	12.6	12	33	245 100 000 021	ABI	A
6AV5	6.3	7	82	410 020 020 000	ACEH	E	13DR7-TRI.2	12.6	50	40	245 105 400 021	ABI	A
6AV6-TRI.	6.3	24	0	401 055 200 013	ABG	G	13DR7-TRI.1	12.6	10	0	545 102 400 024	FGH	F
6AV6-DIO.1	6.3	0	55	401 022 000 033	BF	F	13EM7-TRI.2	12.6	65	0	430 000 010 031	ABC	B
6AV6-DIO.2	6.3	0	55	401 022 000 033	BE	E	13EM7-TRI.1	12.6	12	30	000 430 010 023	DEF	E
6AW6	6.3	16	41	401 022 000 012	ABEF	E	13FR7-TRI.2	12.6	75	85	245 100 000 020	ABI	A
6AW8-PEN.	6.3	27	85	000 100 423 011	FGHI	I	13FR7-TRI.1	12.6	40	85	000 103 400 022	FGH	F
6AW8-TRI.	6.3	30	38	042 100 000 012	ABC	C	14GT8-TRI.	14.0	0	40	000 100 043 024	GHI	I
6AW8A-TRI.	6.3	20	80	000 100 423 011	FGHI	I	14GT8-DIO.2	14.0	0	0	020 100 000 032	BC	B
6AW8A-PEN.	6.3	38	38	042 100 000 012	ABC	C	14GT8-DIO.1	14.0	0	0	000 102 000 032	AF	F
6AX4	6.3	0	20	000 020 100 021	CE	E	14JG8-TRI.	14	25	25	000 100 042 023	GHI	I
6AX5-P1	6.3	0	80	010 020 000 000	EH	E	14JG8-DIO.1	14	0	45	020 102 000 021	BC	B
6AX5-P2	6.3	0	80	012 000 000 000	CH	C	14JG8-DIO.2	14	0	45	020 102 000 021	AF	F
6AX7-TRI.2	6.3	7	95	340 103 405 023	ABCFGH	A	14L7-TRI.	14	15	35	134 000 000 023	BCG	B
6AX7-TRI.1	6.3	7	95	340 103 405 023		F	14L7-DIO.1	14	0	0	154 022 000 033	FG	F
6AX8-TRI.	6.3	20	80	200 100 004 001	AHI	A	14L7-DIO.2	14	0	0	154 022 000 033	EG	E
6AX8-PEN.	6.3	20	0	042 103 000 012	BCFG	F	16A8-TRI.	14	34	80	400 100 003 023	AHI	I
6AZ8-TRI.	6.3	30	96	320 104 024 001	GHI	H	16A8-PEN.	14	65	60	004 103 200 021	BCFG	F
6AZ8-PEN.	6.3	7	44	320 104 024 002	ABCF	A	17AV5	19	7	74	410 020 020 000	ACEH	E
6BA5	6.3	20	62	401 020 200 012	AEGH	E	17AX4	19	0	75	000 020 100 000	CE	E
6BA6	6.3	13	0	401 032 000 002	ABEFG	E	17BQ6	19	45	0	010 240 000 321	DEHJ	J
6BA7-MIX.	6.3	7	80	300 100 403 022	ABCFGH	I	17C5	19	7	97	041 052 200 000	ABFG	G
6BA7-OSC.	6.3	7	98	300 100 403 021	ABCFGH	A	17CA5	19	50	10	041 052 200 011	ABFG	G
6BA8-TRI.	6.3	17	23	042 100 423 012	ABC	C	17CU5	19	7	86	041 052 200 000	ABFG	G
6BA8-PEN.	6.3	17	85	042 100 423 011	FGHI	I	17D4	19	0	70	000 030 100 020	CE	E
6BC5	6.3	15	37	401 032 500 012	ABEF	E	17DE4	14	0	75	000 030 100 020	CE	E
6BC7-P1	6.3	0	95	000 100 020 031	HI	H	17DQ6	19	22	0	010 240 000 321	DEHJ	J
6BC7-P2	6.3	0	95	000 102 000 031	FG	F	17EW8-TRI.2	14	45	0	340 100 000 022	ABC	A
6BC7-P3	6.3	0	95	020 100 000 031	AB	B	17EW8-TRI.1	14	45	0	000 103 400 022	FGH	F
6BC8-TRI.1	6.3	10	25	240 102 400 012	FGH	F	17H3	19	0	22	002 100 050 021	AC	C
6BC8-TRI.2	6.3	10	25	240 102 400 012	ABC	A	17HC8-TRI.	14	58	48	400 100 003 033	AHI	I
6BD4A	6.3	50	55	010 040 000 303	AEJ	J	17HC8-PEN.	14	22	48	004 103 200 011	BCFG	F
6BD5	6.3	7	90	410 030 030 000	ACEH	E	17L6	19	70	100	013 240 000 020	CDEH	C
6BD6	6.3	8	34	401 032 000 012	ABEFG	E	17R5	19	7	90	041 052 200 000	ABFG	G
6BD7-TRI.	6.3	15	35	340 100 000 023	ABC	A	18A5	19	7	87	410 030 020 010	ACEH	F



6BL4	6.3	0	65	550 525 100 010	CE	E	19V8-TRI.	19	7	81	350 104 505 023	ACF	A
6BL7-TRI.1	6.3	7	10	430 430 100 001	DEF	E	19V8-DIO.1	19	7	0	350 104 505 005	CI	I
6BL7-TRI.2	6.3	7	10	430 430 100 001	ABC	B	19V8-DIO.2	19	7	0	350 104 505 005	GH	G
6BL7GTA-TRI.2	6.3	55	58	430 430 100 021	ABC	B	19V8-DIO.3	19	7	0	350 104 505 005	BC	B
6BL7GTA-TRI.1	6.3	55	58	430 430 100 021	DEF	E	19X8-PEN.	19	25	12	000 100 423 012	FGHI	I
6BL8-PEN.	6.3	30	35	542 103 004 012	BCFG	F	19X8-TRI.	19	18	23	043 100 000 022	BCG	C
6BL8-TRI.	6.3	20	85	342 105 004 021	AHI	A	20EQ7-PEN.	19	73	10	040 102 300 022	ABCFG	G
6BM8-TRI.	6.3	34	80	400 100 003 022	AHI	I	20EQ7-DIO.	19	0	45	040 100 020 033	CH	H
6BM8-PEN.	6.3	65	47	004 103 200 021	BCFG	F	20EZ7-TRI.2	19	10	48	105 043 000 034	DEF	F
6BN4	6.3	7	44	041 025 500 012	ABE	E	20EZ7-TRI.1	19	10	48	105 000 340 034	GHI	G
6BN6	6.3	7	45	041 020 300 003	ABEFG	G	21EX6	19	40	87	510 545 020 220	CEHJ	J
6BN7-SEC.1	6.3	7	28	000 100 402 001	FGI	I	22DE4	19	0	80	000 030 100 020	CE	E
6BN7-SEC.2	6.3	31	75	240 010 000 012	ABC	A	25AC5	25	84	0	012 040 000 001	CEH	C
6BN8-TRI.	6.3	7	90	500 105 240 012	GHI	G	25AV5	25	7	82	410 020 020 000	ACEH	E
6BN8-DIO.1	6.3	7	95	500 105 240 015	CF	F	25AX4	25	0	75	000 030 100 020	CE	E
6BN8-DIO.2	6.3	7	95	500 105 240 015	AB	A	25BK5	25	25	40	304 100 520 001	ACFH	A
6BQ5	6.3	35	30	540 105 352 011	BCGI	G	25BQ6	25	55	0	010 240 000 321	DEHJ	J
6BQ6	6.3	45	0	010 240 000 321	DEHJ	J	25BQ6GA	25	65	0	010 240 000 321	DEHJ	J
6BQ7-A-TRI.1	6.3	65	25	240 102 400 022	FGH	F	25C5	25	7	97	041 052 200 000	ABFG	G
6BQ7-A-TRI.2	6.3	65	25	240 102 400 022	ABC	A	25CA5	25	19	5	051 042 200 001	AEEG	G
6BR8-TRI.	6.3	20	80	420 100 000 001	ABC	B	25CD6	25	7	44	010 040 020 300	CEHJ	J
6BR8-PEN.	6.3	7	62	000 103 204 002	FGHI	F	25CU6	25	55	0	010 240 000 321	DEHJ	J
6BS8-TRI.1	6.3	12	10	200 102 400 012	FGH	F	25D4	25	0	15	000 020 100 021	CE	E
6BS8-TRI.2	6.3	12	10	240 102 000 012	ABC	A	25DK4	25	0	67	001 035 000 020	EG	E
6BT6-TRI.	6.3	7	80	401 055 200 003	ABG	G	25DN6	25	90	67	010 040 020 320	CEHJ	J
6BT6-DIO.1	6.3	7	20	401 055 200 005	BF	F	25DQ6	25	25	0	010 240 000 321	DEHJ	J
6BT6-DIO.2	6.3	7	20	401 055 200 005	BE	E	25DT5	25	40	40	354 105 052 021	ACGI	I
6BT8-PEN.	6.3	12	30	550 103 240 012	FGHI	F	25EC6	25	70	75	010 040 020 320	CEHJ	J
6BT8-DIO.1	6.3	7	0	550 103 240 005	AC	A	25EH5	25	20	60	041 052 300 021	ABFG	G
6BT8-DIO.2	6.3	7	0	550 103 240 005	BC	B	25F5	25	7	17	041 052 200 001	ABEFG	G
6BU5	6.3	20	15	002 405 100 314	BCDEJ	J	25FY8-TRI.	25	50	0	400 100 003 033	AHI	I
6BU6-TRI.	6.3	7	0	401 055 300 002	ABG	G	25FY8-PEN.	25	20	20	404 103 200 021	BCFG	F
6BU6-DIO.1	6.3	7	25	401 055 300 005	CF	F	25L6	25	70	0	013 240 000 021	CDEH	C
6BU6-DIO.2	6.3	7	25	401 055 300 005	CE	E	25U4	25	0	15	000 020 100 021	CE	E
6BU8-SEC.1	6.3	40	35	020 100 430 023	ABGHI	H	25W4	25	0	35	000 020 100 021	CE	E
6BU8-SEC.2	6.3	40	35	023 100 400 023	ABCFG	C	25W6	25	85	0	013 240 000 021	CDEH	C
6BV8-TRI.	6.3	7	26	043 105 005 022	ABC	C	25Z6-P1	25	0	71	010 020 000 000	EH	E
6BV8-DIO.1	6.3	7	0	043 105 005 005	GI	I	25Z6-P2	25	0	71	012 000 000 000	CD	C
6BV8-DIO.2	6.3	7	0	043 105 005 005	FH	F	26A6	25	7	28	401 032 000 012	ABEFG	E
6BW4-P1	6.3	0	83	300 100 300 000	GI	G	26A7-PEN.1	25	7	78	404 321 030 031	ABEH	H
6BW4-P2	6.3	0	83	300 100 300 000	AI	A	26A7-PEN.2	25	7	78	404 321 030 031	BCDE	D
6BW8-PEN.	6.3	7	70	000 104 023 012	FGHI	I	26BK6-TRI.	25	7	90	401 055 200 003	ABG	G
6BW8-DIO.1	6.3	0	76	003 100 000 020	BC	C	26BK6-DIO.1	25	7	20	401 055 200 005	BF	F
6BW8-DIO.2	6.3	0	76	300 100 000 020	AB	A	26BK6-DIO.2	25	7	20	401 055 200 005	BE	E
6BX6	6.3	15	20	045 100 320 012	ABFGH	G	26Z5W-P1	25	0	25	000 102 005 021	FH	F
6BX7-TRI.1	6.3	35	8	000 420 100 011	DEF	E	26Z5W-P2	25	0	25	200 100 005 021	AC	A
6BX7-TRI.2	6.3	35	8	420 000 100 011	ABC	B	30A5	35	7	22	041 052 300 001	ABFG	F
6BY5-P1	6.3	0	80	010 020 000 000	EH	E	32ET5	35	60	50	041 052 300 021	ABFG	G
6BY5-P2	6.3	0	80	010 200 000 000	AD	D	34GD5	35	7	22	041 053 200 001	ABFG	G
6BY6-SEC.1	6.3	7	56	401 032 000 012	ABEFG	E	35B5	35	80	38	401 022 500 021	ABEF	E
6BY6-SEC.2	6.3	7	26	001 032 400 012	ABEFG	F	35C5	35	7	22	041 052 200 001	ABFG	G
6BY7	6.3	10	10	045 100 320 012	ABFGH	G	35CD6GA	35	60	44	010 040 020 310	CEHJ	J
6BY8-PEN.	6.3	40	45	400 105 320 012	ABGHI	G	35DZ8-PEN.	35	45	24	004 103 200 021	BCFG	F
6BY8-DIO	6.3	0	80	400 105 200 031	CF	F	35DZ8-TRI	35	7	52	400 100 003 023	AHI	I

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6BZ6	6.3	56	92	401 032 000 011	ABEFG	E	35DZ8-TRI	35.0	7	52	400 100 003 023 (3)	AHI	I
6BZ7-TRI.1	6.3	65	35	240 102 400 022	FGH	F	35GL6	35.0	85	0	041 025 300 021	ABEG	G
6BZ7-TRI.2	6.3	65	35	240 102 400 022	ABC	A	35L6	35.0	17 (1)	0	013 240 000 011	CDEH	C
6BZ8-TRI.1	6.3	18	0	200 102 400 012	FGH	F	35W4	35.0	0	70	001 025 000 000	EG	E
6BZ8-TRI.2	6.3	18	0	240 102 000 012	ABC	A	35Y4	35.0	0	71	120 500 000 000	BG	B
6C4	6.3	40	65	351 054 000 011	ABG	A	35Z3	35.0	0	71	120 000 000 000	BG	B
6CA4-P1	6.3	0	80	350 105 355 000	AC	A	35Z4	35.0	0	71	010 020 000 000	EH	E
6CA4-P2	6.3	0	80	350 105 355 000	AG	G	35Z5	35.0	0	71	015 020 000 000	EH	E
6CA5	6.3	19	5	051 042 200 001	ABFG	G	36AM3	35.0	0	72 (2)	551 035 000 020	EG	E

(1) Up To "37" On Other Charts

(2) "78" On Previous Charts

(3) "024" Is Better For Some Tubes

6CA7-EL34	6.3	80	85	013 245 005 010	ACDEH	C	40FR5	35	65	43	040 152 300 021	ABFG	G
6CB5	6.3	7	62	210 455 050 300	ACDJ	J	45B5	45	67	0	540 105 352 021	BCGI	G
6CB5A	6.3	7	60	210 455 050 300	ACDJ	J	45Z3	45	0	78	120 005 000 000	BD	B
6CB6	6.3	40	95	401 032 000 011	ABEFG	E	50A5	50	7	22	041 052 300 001	ABFG	F
6CD6G	6.3	60	50	010 040 020 310	CEHJ	J	50B5	50	20	10	401 032 500 000	ABEF	E
6CE5	6.3	10	37	401 032 500 012	ABEF	E	50BK5	50	7	40	304 100 530 001	ACFH	A
6CF6	6.3	40	95	401 032 000 011	ABEFG	E	50C5	50	7	97	041 052 300 000	ABFG	G
6CF8	6.3	35	75	200 103 004 012	ACFHI	F	50CA5	50	19	0	051 042 300 011	AEFG	G
6CG7-TRI.2	6.3	55	15	240 102 400 012	ABC	A	50DC4	50	0	40	551 035 000 000	EG	E
6CG7-TRI.1	6.3	55	15	240 102 400 012	FGH	F	50DC5	50	0	45	551 035 055 010	EG	E
6CG8-TRI.	6.3	30	0	430 100 050 022	ABC	B	50EH5	50	20	60	041 052 300 021	ABFG	G
6CG8-PEN.	6.3	25	15	000 103 254 012	CFGH	F	50FA5	50	75	22	040 152 300 021	ABFG	G
6CH6	6.3	10	40	540 105 230 011	BCFGH	G	50FE5	50	52	0	013 240 000 021	CDEH	C
6CH7-TRI.1	6.3	25	0	000 103 405 022	FGH	F	50FK5	50	68	25	040 152 300 021	ABFG	G
6CH7-TRI.2	6.3	25	0	340 100 005 022	ABC	A	50FY8-TRI.	50	50	0	400 100 003 033	AHI	I
6CH8-TRI.	6.3	40	10	000 100 043 022	AHI	I	50FY8-PEN.	50	20	20	404 103 200 021	BCFG	F
6CH8-PEN.	6.3	12	29	032 100 400 012	BCFG	B	50L6	50	15	0	013 240 000 011	CDEH	C
6CJ6	6.3	7	85	540 105 530 220	BCHIJ	J	55N3	50	0	67	130 000 000 020	BG	B
6CK4	6.3	50	40	415 525 000 021	AEH	E	60FX5	50	10	0	041 052 300 001	ABFG	G
6CK5	6.3	80	65	135 524 000 032	BEFG	B	117Z3	117	0	74	501 020 000 000	EF	E
6CL5	6.3	7	49	210 455 050 210	ACDJ	J	EL37	6.3	75	10	013 240 000 011	CDEH	C
6CL6	6.3	70	35	042 103 055 011	ABCFG	F	EM34-TARGET CLOSED	6.3	7	30	513 433 000 014	CDEH	E
6CL8-TRI.	6.3	17	0	420 100 000 012	ABC	B	EM34-TARGET OPEN	6.3	40	60	514 434 000 014	E	E
6CL8-TET.	6.3	63	25	000 103 204 022	FGHI	F	KT88	6.3	75	10	013 240 000 011	CDEH	C
6CL8A-TET.	6.3	85	40	000 103 204 022	FGHI	F	U191	19	0	80	055 530 105 020	EJ	E
6CL8A-TRI.	6.3	15	0	420 100 000 012	ABC	B	311-B	10	35	34	122 000 000 411	CD	B
6CM4	6.3	12	84	340 105 555 021	ABC	A	407-A-TRI.1	19	16	32	100 202 401 012	BDFH	F
6CM6	6.3	25	52	204 105 002 001	ACGI	I	407-A-TRI.2	19	16	32	104 202 001 012		D
6CM7-TRI.1	6.3	7	79	200 102 440 012	CFG	F	408-A	19	10	43	401 032 500 012	BF	E
6CM7-TRI.2	6.3	47	80	200 102 440 011	AHI	A	1C21-NON-COND.	50	0	50	010 030 200 030	BEG	E
6CM8-TRI.	6.3	7	25	340 103 204 013	AHI	A	1C21-COND.	50	10	50	010 030 200 030		E
6CM8-PEN.	6.3	20	20	340 103 204 012	BCFG	F	2C34-TRI.2	6.3	75	90	154 055 000 300	CDJ	J
6CN6	6.3	90	80	015 245 000 310	ADEHJ	J	2C34-TRI.1	6.3	75	90	155 045 000 300	DEJ	J
6CN7-TRI.	6.3	7	93	550 100 425 013	FGH	H	WE404A	6.3	40	65	451 052 520 011	ADFH	F
6CN7-DIO.1	6.3	7	100	550 100 425 015	BC	B	GL502A-NON-COND.	6.3	0	0	512 540 000 030	CEFH	C
6CN7-DIO.2	6.3	7	100	550 100 425 015	AC	A	GL502A-COND.	6.3	25	0	512 540 000 030		C
6CQ4	6.3	0	70	000 020 100 010	CE	E	CK546DX	1.4	30	60	321 400 000 034	ABD	A
6CQ8-TRI.	6.3	68	88	242 102 004 011	AHI	A	801/801A	7.5	90	90	134 000 000 000	BC	B
6CQ8-TET.	6.3	80	0	242 102 004 012	BCFG	F	812A	6.3	63	0	104 000 000 301	CJ	J
6CR6-PEN.	6.3	15	22	051 032 400 002	AIEFG	E	1299	1.25	20	95	132 000 000 434	CBJ	B
6CR6-DIO.	6.3	0	22	051 032 400 005	AB	B	1616	5.0	0	60	155 000 000 310	J	J
6CR8-TRI.	6.3	36	92	200 100 004 011	AHI	A	1626	12.6	7	80	013 400 000 021	CDH	C
6CR8-PEN.	6.3	7	50	040 102 200 012	BCFGH	F	2033-TRI.2	6.3	25	70	301 004 000 032	AFG	A
6CS6-SEC.1	6.3	18	0	401 032 000 023	ABEFG	E	2033-TRI.1	6.3	25	70	031 040 000 032	BEG	B
6CS6-SEC.2	6.3	27	25	001 032 400 023		F	420A-TRI.2	6.3	0	65	304 114 030 014	ABC	A
6CS7-TRI.1	6.3	7	99	304 103 400 011	FGH	F	420A-TRI.1	6.3	0	65	304 114 030 014	FGH	H
6CS7-TRI.2	6.3	7	40	304 103 400 011	ACI	A	CK5517		0	10	005 350 055 312	J	J
6CU5	6.3	7	96	041 052 200 000	ABFG	G	GL5556/PJ8	5.0	35	25	134 000 000 002	BC	B
6CU6	6.3	7	82	010 240 000 300	DEHJ	J	GL5560/FG-95 Non-Cond.	5.0	0	0	102 004 000 331	CEJ	J
6CU8-PEN.	6.3	28	45	032 100 455 022	ABCFG	B	GL5560/FG-95 COND.	5.0	20	0	102 004 000 331	J	J
6CU8-TRI.	6.3	10	10	000 100 043 011	AHI	I	5639	6.3	10	40	401 030 200 022	ABEG	E
6CV7-TRI.	6.3	15	35	134 000 000 023	BCG	B	5641	6.3	0	35	531 300 530 011	BDEH	E
6CV7-DIO.1	6.3	0	0	154 022 000 033	FG	F	5642	1.25	0	65	000 000 100 322	J	J
6CV7-DIO.2	6.3	0	0	154 022 000 033	EG	E	5651		0	35	305 555 555 022	AB	A
6CW4	6.3	50	75	140 003 000 021	BFG	F	5654	6.3	10	44	401 022 500 012	BF	E
6CW5	6.3	47	33	540 105 352 021	BCGI	G	5670-TRI.2	6.3	25	15	104 202 400 012	BCDFGH	D
6CX8-TRI.	6.3	30	42	043 100 555 022	ABC	C	5670-TRI.1	6.3	25	15	104 202 400 012		F
6CX8-PEN.	6.3	60	75	555 100 423 021	FGHI	I	5672	1.25	7	90	001 402 200 034	DFG	G

6CW5	6.3	47	33	540 105 352 021	BCGI	G	5670-TRI.2	6.3	25	15	104 202 400 012	BCDFGH	D
6CX8-TRI.	6.3	30	42	043 100 555 022	ABC	C	5670-TRI.1	6.3	25	15	104 202 400 012		F
6CX8-PEN.	6.3	60	75	555 100 423 021	FGHI	I	5672	1.25	7	90	001 402 200 034	DFG	G
6CY5	6.3	40	10	401 032 500 022	ABEF	E	CK5672	1.25	7	90	001 402 200 034	DFG	G
6CY7-TRI.1	6.3	60	40	000 103 400 012	FGH	F	CK5678	1.25	47	15	001 402 300 033	DFG	G
6CY7-TRI.2	6.3	23	23	354 100 000 031	ACI	A	5678	1.25	7	85	000 412 200 023	DG	G
6CZ5	6.3	60	25	254 105 053 011	ACGI	I	5686	6.3	7	60	045 103 355 011	ABFG	G
6D6	6.3	32	21	132 000 000 412	BCDEJ	B	5687-TRI.2	12.6	50	90	240 100 450 021	ABC	A
6DA4	6.3	0	10	000 020 100 021	CE	E	5687-TRI.1	12.6	50	90	140 100 452 021	FGI	I
6DA5 TARGET OPEN	6.3	0	20	405 105 253 013	ABGI	G	5718	6.3	30	90	451 500 520 011	AEH	H
6DA5 TARGET CLOSE	6.3	0	20	405 105 353 013		G	5719	6.3	12	25	451 500 530 034	AEH	H
6DA6	6.3	55	15	540 105 320 022	BCGHI	G	5725	6.3	7	80	401 022 000 012	ABEFG	E
6DB5	6.3	35	90	204 105 002 010	ACHI	I	5727-NON-COND.	6.3	0	40	401 042 500 030	ABEF	F
6DC6	6.3	18	27	401 032 000 012	ABEFG	E	5727-COND.	6.3	80	40	401 042 500 030		F
6DC8-PEN.	6.3	52	27	240 103 000 022	ABCF	F	5749	6.3	7	40	401 022 000 012	ABEFG	E
6DC8-DIO.2	6.3	0	25	000 100 220 033	CG	G	5751-TRI.2	12.6	0	75	340 103 405 024	ABC	A
6DC8-DIO.1	6.3	0	25	000 100 220 033	CH	H	5751-TRI.1	12.6	0	75	340 103 405 024	FGH	F
6DE4	6.3	0	75	000 030 100 020	CE	E	CK5755-TRI.2	6.3	0	65	304 114 030 014	ABC	A
6DE6	6.3	10	15	401 032 000 012	ABEFG	E	CK5755-TRI.1	6.3	0	65	304 114 030 014	FGH	H
6DE7-TRI.1	6.3	40	53	005 102 400 022	FGH	F	5797	25	75	40	000 104 400 003	ABC	A
6DE7-TRI.2	6.3	12	33	245 100 000 021	ABI	A	5798-TRI.2	25	7	49	340 100 430 033	ABC	A
6DG6	6.3	50	28	013 240 000 021	CDEH	C	5798-TRI.1	25	7	49	340 100 430 033	ABC	A
6DJ8-TRI.2	6.3	30	0	340 100 000 032	ABC	A	5814A-TRI.2	12.6	50	25	340 103 405 022	ABC	A
6DJ8-TRI.1	6.3	30	0	000 103 400 032	FGH	F	5814A-TRI.1	12.6	50	25	340 103 405 022	FGH	F
6DK6	6.3	7	41	401 022 000 002	ABEFG	E	5823		0	0	250 205 000 012	ACD	A
6DL5	6.3	60	83	401 032 500 021	ABEF	E							
6DN6	6.3	67	86	010 040 020 320	CEHJ	J	5824	25	35	75	012 240 000 010	CDEH	C
6DN7-TRI.2	6.3	50	50	430 430 100 021	ABC	B	5840	6.3	7	50	401 520 250 012	ABEG	E
6DN7-TRI.1	6.3	40	38	430 430 100 022	DEF	E	5847	6.3	40	65	451 053 520 011	ADFH	F
6DQ5	6.3	7	45	410 255 050 300	ACDJ	J	5879	6.3	15	65	400 100 230 023	ACGHI	H
6DQ6	6.3	50	0	010 240 000 321	DEHJ	J	CK5886	1.25	0	60	004 102 300 034	G	G
6DQ6B	6.3	25	0	010 240 000 321	DEHJ	J	5899	6.3	15	25	401 520 250 012	ABEG	E
6DR7-TRI.2	6.3	50	15	245 105 400 021	ABI	A	5902	6.3	75	45	401 530 250 021	ABEG	E
6DR7-TRI.1	6.3	10	0	545 102 400 024	FGH	F	5915-MIXER	6.3	28	25	401 032 000 012	ABEFG	E
6DS5	6.3	50	45	401 032 500 011	ABEF	E	5915-OSC.	6.3	30	35	001 032 400 012	BEFG	E
6DT5	6.3	40	73	254 105 053 021	ACGI	I	5963-TRI.1	12.6	40	18	340 103 405 022	FGH	F
6DT6	6.3	30	48	401 032 000 023	ABEFG	E	5963-TRI.2	12.6	40	18	340 103 405 022	ABC	A
6DT8-TRI.2	6.3	70	23	240 105 400 012	ABC	A	5964-TRI.2	6.3	60	73	301 004 000 032	AFG	A
6DT8-TRI.1	6.3	70	23	540 102 400 012	FGH	F	5964-TRI.1	6.3	60	73	031 040 000 032	BEG	B
6DU6 TARGET OPEN	6.3	0	38	450 013 252 013	ACFGI	F	5965-TRI.2	12.6	50	68	340 100 005 032	ABC	A
6DU6 TARGET CLOSE	6.3	0	48	450 103 352 013		F	5965-TRI.1	12.6	50	68	000 103 405 032	FGH	F
6DW5	6.3	0	25	254 105 053 011	ACGI	I	5971	1.25	0	60	000 514 300 023	FG	G
6DZ7-PEN.2	6.3	90	25	413 200 000 021	ACDH	C	5998-TRI.2	6.3	0	72	430 450 100 021	ABC	B
6DZ7-PEN.1	6.3	90	25	010 243 000 021	DEFH	F	5998-TRI.1	6.3	0	72	450 430 100 021	DEF	E
6DZ8-PEN.	6.3	45	24	004 103 200 021	BCFG	F	6005	6.3	7	20	401 033 500 011	ABEF	E
6DZ8-TRI.	6.3	7	52	400 100 003 023	AHI	I	GL6011/710-NON-COND.	3.6	0	0	104 055 555 301	CJ	J
6EA5	6.3	25	5	401 032 500 012	ABEF	E	GL6011/710-COND.	3.6	40	0	104 055 555 301		J
6EA7-TRI.2	6.3	50	27	430 430 100 031	ABC	B	6012-NON-COND.	6.3	0	0	014 020 000 030	ACEH	E
6EA7-TRI.1	6.3	38	60	430 430 100 033	DEF	E	6012-COND.	6.3	7	0	014 020 000 030		E
6EA8-PEN.	6.3	42	0	542 103 005 012	BCFG	F	6021-TRI.2	6.3	7	60	241 000 000 012	ABDEGH	A
6EA8-TRI.	6.3	35	12	345 105 004 022	AHI	A	6021-TRI.1	6.3	7	60	001 000 420 012		H
6EB8-TRI.	6.3	30	58	043 100 000 012	ABC	C	CK6029	1.4	80	20	000 140 300 032	EG	G
6EB8-PEN.	6.3	17	73	040 100 423 011	FGHI	I	6080-TRI.2	6.3	0	72	430 450 100 021	ABC	B
6EF6	6.3	65	30	013 240 000 001	CDEH	C	6080-TRI.1	6.3	0	72	450 430 100 021	DEF	E
6EH5	6.3	20	60	041 052 300 021	ABFG	G	6080WA-TRI.2	6.3	0	65	430 450 100 021	ABC	B
6EH7	6.3	10	12	045 100 320 022	ABGHI	G	6080WA-TRI.1	6.3	0	65	450 430 100 021	DEF	E
6EH8-TRI.	6.3	25	87	042 100 000 011	ABC	C	6087-P2	5.0	0	87	010 303 000 000	DF	D
6EH8-PEN.	6.3	60	90	500 100 423 011	FGHI	I	6087-P1	5.0	0	87	010 303 000 000		F
6EJ7	6.3	25	28	045 100 320 022	ABGHI	G	6111-TRI.2	6.3	7	15	241 000 000 012	ABD	A
6EM5	6.3	25	75	254 105 053 021	ACGI	I	6111-TRI.1	6.3	7	15	001 000 420 012	EGH	H
6EM7-TRI.2	6.3	62	0	430 000 010 031	ABC	B	6112-TRI.2	6.3	50	70	341 000 430 033	ABD	A

Tube must glow—tube is O.K.

6EJ7	6.3	25	28	045 100 320 022	ABGHI	G	6111-TRI.2	6.3	7	15	241 000 000 012	ABD	A
6EM5	6.3	25	75	254 105 053 021	ACGI	I	6111-TRI.1	6.3	7	15	001 000 420 012	EGH	H
6EM7-TRI.2	6.3	62	0	430 000 010 031	ABC	B	6112-TRI.2	6.3	50	70	341 000 430 033	ABD	A
6EM7-TRI.1	6.3	12	28	000 430 010 023	DEF	E	6112-TRI.1	6.3	50	70	341 000 430 033	EGH	H
6ER5	6.3	20	0	041 032 500 022	ABEF	E	6136	6.3	15	60	401 022 000 012	ADEF	E
6ES5	6.3	60	0	041 030 500 021	ABEF	E	6137	6.3	40	5	010 402 020 012	CDEFH	H
6EQ7-PEN.	6.3	75	10	040 102 300 022	ABCFG	G	6146	6.3	85	35	012 545 005 300	ACEHJ	J
6EQ7-DIO.	6.3	0	45	040 100 020 033	CH	H	6159	25	90	50	012 545 005 300	ACEHJ	J
6ET7-PEN.	6.3	7	73	000 100 423 011	FGHI	I	6197	6.3	30	58	042 103 055 011	ABCFG	F
6ET7-DIO.1	6.3	0	25	022 100 000 022	AC	C	6201-TRI.2	12.6	95	10	340 103 405 022	ABC	A
6ET7-DIO.2	6.3	0	25	022 100 000 022	AB	B	6201-TRI.1	12.6	95	10	340 103 405 022	FGH	F
6ES8-TRI.2	6.3	20	0	240 105 400 022	ABC	A	6205	6.3	7	30	401 020 250 012	ABEG	E
6ES8-TRI.1	6.3	20	0	540 102 400 022	FGH	F	6265	6.3	30	55	401 032 000 012	ABEFG	E
6EU7-TRI.1	6.3	0	45	100 043 000 024	DEF	F	6267	6.3	25	75	200 103 004 012	ACFHI	F
6EU7-TRI.2	6.3	0	45	100 000 340 024	GHI	G	6336-TRI.2	6.3	7	10	430 450 100 020	ABC	B
6EV5	6.3	42	5	401 032 500 022	ABEF	E	6336-TRI.1	6.3	7	10	450 430 100 020	DEF	E
6EV7-TRI.1	6.3	13	15	340 103 400 012	FGH	F	6336A-TRI.2	6.3	7	10	430 450 100 020	ABC	B
6EV7-TRI.2	6.3	13	15	340 103 400 012	ABC	A	6336A-TRI.1	6.3	7	10	450 430 100 020	DEF	E
6EW6	6.3	30	0	401 032 000 012	ABEF	E	6350-TRI.1	6.3	7	20	304 223 040 022	FGH	F
6EW7-TRI.2	6.3	15	20	345 100 400 031	ABI	A	6350-TRI.2	6.3	7	20	304 223 040 022	ABC	A
6EW7-TRI.1	6.3	10	63	045 103 400 022	FGH	F	6386-TRI.1	6.3	15	85	104 355 400 021	BCD	D
6EX6	6.3	7	60	510 545 030 220	CEHJ	J	6386-TRI.2	6.3	15	85	104 553 400 021	FGH	F
6EY6	6.3	50	10	013 240 000 001	CDEH	C	6394A-TRI.2	25	10	50	430 450 100 020	ABC	B
6EZ5	6.3	60	0	013 240 000 001	CDEH	C	6394A-TRI.1	25	10	50	450 430 100 020	DEF	E
6EZ8-TRI.3	6.3	15	48	043 013 434 032	ABC	C	6397	1.4	40	40	153 502 000 022	CFH	C
6EZ8-TRI.2	6.3	15	48	043 013 434 032	FG	F	CK6519	1.4	30	60	000 412 300 034	DFG	G
6EZ8-TRI.1	6.3	15	48	043 013 434 032	HI	H	6520-TRI.2	6.3	0	72	430 450 100 021	ABC	B
6F6	6.3	37	58	013 240 000 001	CDEH	C	6520-TRI.1	6.3	0	72	450 430 100 021	DEF	E
6FE5	6.3	67	0	013 240 000 021	CDEH	C	6528-TRI.2	6.3	0	65	430 450 100 011	ABC	B
6FG5	6.3	65	25	401 032 500 012	ABEF	E	6528-TRI.1	6.3	0	65	450 430 100 011	DEF	E
6FG6 TARGET OPEN	6.3	10	80	450 103 253 013	ACFGI	I	6550	6.3	20	53	013 340 000 000	CDEF	C
6FG6 TARGET CLOSED	6.3	10	78	450 103 353 013	I	I	6660/6BA5	6.3	7	55	401 032 000 002	ABEFG	E
6FG7-TRI.	6.3	45	87	430 100 050 021	ABC	B	6661/6BH6	6.3	45	42	401 032 000 012	ABEFG	E
6FG7-PEN.	6.3	25	12	000 103 254 012	CFGJ	F	6662/6BJ6	6.3	25	31	401 032 000 012	ABEFG	E
6FH5	6.3	77	28	041 030 500 032	ABEF	E	6663/6AL5-DIO.1	6.3	0	0	001 000 200 032	AG	G
6FM8-TRI.	6.3	0	35	000 100 043 024	GHI	I	6663/6AL5-DIO.2	6.3	0	0	021 000 000 032	BE	B
6FM8-DIO.1	6.3	0	50	020 102 040 032	AB	B	6669/6AQ5	6.3	70	5	401 032 500 001	ABEF	E
6FM8-DIO.2	6.3	0	50	020 102 040 032	CF	F	6677/6CL6	6.3	70	35	042 103 055 011	ABCFG	F
6FQ5	6.3	0	27	401 020 500 012	ABEF	E	6678/6U8-PEN.	6.3	11	47	042 103 000 012	BCFG	F
6FS5	6.3	38	18	401 032 500 012	ABEF	E	6678/6U8-TRI.	6.3	20	82	200 100 004 001	AHI	A
6FV6	6.3	7	65	401 032 000 022	AIEFG	E	6679-TRI.2	12.6	95	10	340 103 405 022	ABC	A
6FV8-TRI.	6.3	70	90	430 105 204 021	ABC	B	6679-TRI.1	12.6	95	10	340 103 405 022	FGH	F
6FV8-PEN.	6.3	68	58	450 103 204 022	FGHI	F	6680-TRI.2	12.6	50	25	340 103 405 022	ABC	A
6FW5	6.3	85	83	410 535 020 020	ACEH	E	6680-TRI.1	12.6	50	25	340 103 405 022	FGH	F
6FY5	6.3	0	45	401 030 500 022	ABEF	E	6814	6.3	40	88	401 000 020 011	AEH	H
6FY8-TRI.	6.3	50	0	400 100 003 033	AHI	I	6681-TRI.2	12.6	0	75	340 103 405 024	ABC	A
6FY8-PEN.	6.3	20	20	404 103 200 021	BCFG	F	6681-TRI.1	12.6	0	75	340 103 405 024	FGH	F
6GC5	6.3	55	20	204 105 053 021	ACGI	I	6688	6.3	30	85	045 100 302 021	ABGH	G
6GE8-TRI.	6.3	15	17	004 103 000 031	BCF	F	6829-TRI.1	12.6	7	34	240 102 405 012	FGH	F
6GE8-PEN.	6.3	28	67	200 100 043 012	AGHI	I	6829-TRI.2	12.6	7	34	240 102 405 012	ABC	A
6GH8-TRI.	6.3	62	0	342 100 004 022	AHI	A	6883	12.6	85	25	012 545 005 300	ACEJ	J
6GH8-PEN.	6.3	65	90	042 103 000 011	BCFG	F	6887-DIO.1	6.3	0	100	051 000 500 005	AG	G
6GK5	6.3	12	90	041 030 500 021	ABE	E	6887-DIO.2	6.3	0	100	051 000 500 005	BE	B
6GM5	6.3	48	0	200 104 003 001	AFGI	I	6888	6.3	7	55	013 002 030 011	CDEFH	H
6GM6	6.3	50	0	401 032 000 022	ABEFG	E	6919-DIO.1	6.3	0	55	021 000 200 032	BE	B
6GN8-TRI.	6.3	0	73	043 100 000 003	ABC	C	6919-DIO.2	6.3	0	55	021 000 200 032	AG	G
6GN8-PEN.	6.3	7	65	000 100 423 001	FGHI	I	6922-TRI. 2	6.3	65	85	340 100 000 031	ABC	A
6GS8-PEN.1	6.3	7	60	123 100 430 023	ABGHI	H	6922-TRI. 1	6.3	65	85	000 103 400 031	FGH	F
6GS8-PEN.2	6.3	7	60	123 100 430 023	ABCFG	C	6973	6.3	85	18	254 105 053 011	ACGI	I
6GY8-TRI.3	6.3	10	67	434 010 000 022	AB	B	7025-TRI.1	12.6	20	18	340 103 405 023	FGH	F
6GY8-TRI.2	6.3	10	67	404 010 003 022	CHI	I	7025-TRI.2	12.6	20	18	340 103 405 023	ABC	A



6GN8-TRI.	6.3	0	73	043 100 000 003	ABC	E	6919-DIO.1	6.3	0	55	021 000 200 032	DE	P
6GN8-PEN.	6.3	7	65	000 100 423 001	FGHI	I	6919-DIO.2	6.3	0	85	340 100 000 031	AG	A
6GS8-PEN.1	6.3	7	60	123 100 430 023	ABGHI	H	6922-TRI. 2	6.3	65	85	000 103 400 031	ABC	F
6GS8-PEN.2	6.3	7	60	123 100 430 023	ABCFG	C	6922-TRI. 1	6.3	65	85	254 105 053 011	FGH	I
6GY8-TRI.3	6.3	10	67	434 010 000 022	AB	B	6973	6.3	85	18	340 103 405 023	ACGI	F
6GY8-TRI.2	6.3	10	67	404 010 003 022	CHI	I	7025-TRI.1	12.6	20	18	340 103 405 023	FGH	A
6GY8-TRI.1	6.3	10	67	404 013 000 022	CHI	I	7025-TRI.2	12.6	20	18	340 103 405 023	ABC	A
6HC8-TRI.	6.3	35	48	400 100 003 033	FG	F	7027	6.3	50	0	213 545 000 001	ACEH	C
6HC8-PEN.	6.3	18	48	004 103 200 011	AHI	I	7027A	6.3	50	0	213 545 000 001	ACEH	C
6HS8-PEN.2	6.3	12	35	123 100 400 013	BCFG	F	7036	6.3	70	35	401 032 000 023	ACEF	E
6HS8-PEN.1	6.3	12	35	120 100 430 013	ABCFG	C	7044-TRI.1	12.6	43	34	340 100 453 021	ACFI	I
6JK8-TRI.2	6.3	75	15	340 100 000 032	ABCHI	H	7044-TRI.2	12.6	43	34	340 100 453 021	ABC	A
6JK8-TRI.1	6.3	12	25	000 103 400 022	ABC		7050-TRI.	12.6	20	82	200 100 004 001	AHI	A
6J4	6.3	15	85	401 055 200 011	FGH	F	7054	12.6	50	55	040 105 325 001	ABCGH	G
6J5	6.3	36	15	012 040 000 012	BG	G	7055-DIO.1	12.6	0	0	001 000 200 032	AG	G
6J6-TRI.1	6.3	25	35	221 044 000 012	CH	C	7055-DIO.2	12.6	0	0	021 000 000 032	BE	B
6J6-TRI.2	6.3	25	35	221 044 000 012	BEG	B	7056	12.6	12	29	401 032 000 012	ABEFG	E
6JC8-TRI.	6.3	60	10	040 100 542 012	AFG	A	7057-TRI.1	12.6	7	27	240 102 400 002	FGH	F
6JC8-PEN.	6.3	50	30	042 103 500 012	AHI	I	7057-TRI.2	12.6	7	27	240 102 400 002	ABC	A
6JH8-P 1	6.3	70	83	202 104 030 001	ABCF	F	7058-TRI.2	12.6	0	40	340 103 405 014	ABC	A
6JH8-P 2	6.3	70	83	022 104 003 001	ACFH	H	7058-TRI.1	12.6	0	40	340 103 405 014	FGH	F
6K6	6.3	65	30	013 240 000 001	BCFI	I	7059-PEN.	12.6	11	47	042 103 000 012	BCFG	F
6L6	6.3	75	10	013 240 000 011	CDEH	C	7060-TRI.	12.6	33	25	340 100 000 022	ABC	A
6M5	6.3	37	48	240 105 355 011	CDEH	C	7060-PEN.	12.6	33	10	000 103 240 022	FGHI	F
6N4	6.3	7	25	401 025 500 002	ABCG	G	7061	12.6	23	20	304 105 053 011	ACGI	I
6N8-PEN.	6.3	50	38	240 103 550 033	CDEH	E	7105-TRI.2	12.6	10	50	430 450 100 020	ABC	B
6N8-DIO.1	6.3	0	30	240 105 220 033	ABCF	F	7105-TRI.1	12.6	10	50	450 430 100 020	DEF	E
6N8-DIO.2	6.3	0	30	240 105 220 033	CG	G	7119-TRI.2	12.6	0	85	340 100 453 033	ABC	A
6Q5 NON CON	6.3	0	75	012 010 000 033	CH	H	7119-TRI.1	12.6	80	30	340 100 453 021	FGI	I
6Q5 CON	6.3	0	75	012 000 000 033	CH	C	7137	6.3	7	85	401 055 355 011	ABG	G
6R4	6.3	7	65	400 100 030 001	CH	H	7167	12.6	20	12	401 032 500 022	ABEF	E
6R6	6.3	17	42	012 030 000 402	CH	E	7176	12.6	40	85	401 032 500 011	ABEF	E
6R7-TRI.	6.3	7	0	013 550 000 402	CHJ	C	7189A	6.3	40	0	450 102 355 001	ACFG	G
6R7-DIO.1	6.3	7	25	013 550 000 005	EH	E	7199-TRI.	6.3	17	0	302 100 404 022	AHI	A
6R7-DIO.2	6.3	7	25	013 550 000 005	DH	D	7199-PEN.	6.3	48	50	032 100 400 022	BCFG	B
6R8-TRI.	6.3	55	16	550 105 042 012	GH	I	7233	6.3	0	68	345 105 005 030	ABH	A
6R8-DIO.1	6.3	7	0	550 105 042 005	GHI	I	7247-TRI.2	12.6	50	15	340 103 405 022	ABC	A
6R8-DIO.2	6.3	7	0	550 105 042 005	FG	F	7247-TRI.1	12.6	10	53	340 103 405 034	FGH	F
6R8-DIO.3	6.3	7	0	550 105 042 005	BC	B	7258-TRI.	12.6	20	84	240 103 240 002	ABC	A
6S2	6.3	0	55	555 015 555 333	AG	A	7258-PEN.	12.6	65	95	240 103 240 011	FGHI	F
6S4	6.3	70	70	504 105 553 021	J	J	7355	6.3	60	85	013 504 020 000	CEFH	C
6S4A	6.3	62	70	504 105 553 021	BCI	I	7408	6.3	70	0	013 240 000 001	CDEH	C
6S6	6.3	7	10	010 300 020 402	BCI	I	7543	6.3	56	80	401 032 000 012	ABEFG	F
6S8-TRI.	6.3	7	20	505 502 100 404	AH	D	7586	6.3	0	0	140 003 000 023	BFG	F
6S8-DIO.1	6.3	7	20	505 502 100 405	BFJ	F	7581	6.3	95	92	013 240 000 010	CDEH	C
6S8-DIO.2	6.3	7	20	505 502 100 405	CE	C	7587	6.3	75	53	140 002 000 332	BFGJ	J
6S8-DIO.3	6.3	7	20	505 502 100 405	BD	D	7591	6.3	43	10	013 204 050 001	CDEF	C
6SA7-MIX.	6.3	7	78	013 200 000 002	AB	A	7695	50	17	53	200 104 003 010	AFGI	I
6SA7-GT.	6.3	7	42	013 200 000 002	ACDEFH	C	7701	12.6	25	65	045 103 552 001	ABFI	F
6SB7-MIX.	6.3	7	75	012 200 000 002	ACDEFH	D	7716-TRI.	12.6	15	23	043 100 000 023	ABC	C
6SB7-OSC.	6.3	7	3	012 200 000 002	ACDEFH	C	7716-PEN.	12.6	22	52	000 100 423 011	FGHI	I
6SC7-TRI.1	6.3	7	50	034 430 100 003	DEF	E	Z729/EF86	6.3	25	75	200 103 004 012	ACFHI	F
6SC7-TRI.2	6.3	7	50	034 430 100 003	DEF	E	OG3/85A2		0	87	305 555 500 021	A	A
6SD7	6.3	7	55	010 402 030 002	BCF	B	CK-512-AX	1.25	40	100	000 412 200 034	DF	G
6SF7-PEN.	6.3	61	93	040 253 100 011	CDEFH	H	CK-533AX	1.25	40	53	000 412 200 034	DG	G
6SF7-DIO.	6.3	7	20	040 253 100 005	BCDF	F	CK-5744	6.3	7	10	000 401 300 023	DG	G
6SG7	6.3	31	17	010 452 030 012	CE	E	CK-5875	1.25	7	95	000 413 300 022	DG	G
6SH7	6.3	58	97	010 452 030 011	CDFH	H	CK-6029	1.25	35	15	000 140 200 022	E	G
6SJ7	6.3	70	25	010 402 030 012	CDFH	H	CK-6088	1.25	28	5	000 412 300 034	DFG	G
6SK7	6.3	25	13	010 402 030 012	CDEFH	H	CK-6152	6.3	7	90	001 040 300 021	DFG	G
6SL7-TRI.1	6.3	7	20	430 430 100 002	CDEFH	H	GL-5719	6.3	30	68	401 000 030 023	AH	H
					DEF	E	VEY24	1.25	05	45	000 412 300 033	DFG	G

6R8-DIO.3	6.3	7	0	550 105 042 005
6S2	6.3	0	55	555 015 555 333
6S4	6.3	70	70	504 105 553 021
6S4A	6.3	62	70	504 105 553 021
6S6	6.3	7	10	010 300 020 402
6S8-TRI.	6.3	7	20	505 502 100 404
6S8-DIO.1	6.3	7	20	505 502 100 405
6S8-DIO.2	6.3	7	20	505 502 100 405
6S8-DIO.3	6.3	7	20	505 502 100 405
6SA7-MIX.	6.3	7	78	013 200 000 002
6SA7-GT.	6.3	7	42	013 200 000 002
6SB7-MIX.	6.3	7	75	012 200 000 002
6SB7-OSC.	6.3	7	3	012 200 000 002
6SC7-TRI.1	6.3	7	50	034 430 100 003
6SC7-TRI.2	6.3	7	50	034 430 100 003
6SD7	6.3	7	55	010 402 030 002
6SF7-PEN.	6.3	61	93	040 253 100 011
6SF7-DIO.	6.3	7	20	040 253 100 005
6SG7	6.3	31	17	010 452 030 012
6SH7	6.3	58	97	010 452 030 011
6SJ7	6.3	70	25	010 402 030 022
6SK7	6.3	25	13	010 402 030 012
6SL7-TRI.1	6.3	7	28	430 430 100 003
6SL7-TRI.2	6.3	7	28	430 430 100 003
6SN7-TRI.1	6.3	69	20	430 430 100 022
6SN7-TRI.2	6.3	60	20	same

STOP

AG	A
J	J
BCI	I
BCI	I
AH	D
BFJ	F
CE	C
BD	D
AB	A
ACDEFH	C
	D
ACDEFH	C
	D
DEF	E
BCF	B
CDEFH	H
BCDF	F
CE	E
CDFH	H
CDFH	H
CDEFH	H
CDEFH	H
DEF	E
ABC	B
DEF	E
ABC	B

7258-PEN.	12.6	65	95
7355	6.3	60	85
7408	6.3	70	0
7543	6.3	56	80
7586	6.3	0	0
7581	6.3	95	92
7587	6.3	75	53
7591	6.3	43	10
7695	50	17	53
7701	12.6	25	65
7716-TRI.	12.6	15	23
7716-PEN.	12.6	22	52
Z729/EF86	6.3	25	75
OG3/85A2		0	87
CK-512-AX	1.25	40	100
CK-533AX	1.25	40	53
CK-5744	6.3	7	10
CK-5875	1.25	7	95
CK-6029	1.25	35	15
CK-6088	1.25	28	5
CK-6152	6.3	7	90
GL-5719	6.3	30	68
XFY34	1.25	95	45
XFY35	1.25	30	60

STOP

ABC	A
FGHI	F
CEFH	C
CDEH	C
ABEFG	F
BFG	F
CDEH	C
BFGJ	J
CDEF	C
AFGI	I
ABFI	F
ABC	C
FGHI	I
ACFHI	F
A	A
DF	G
DG	G
DG	G
DG	G
E	G
DFG	G
EFG	G
AH	H
DFG	G
DFG	G