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.

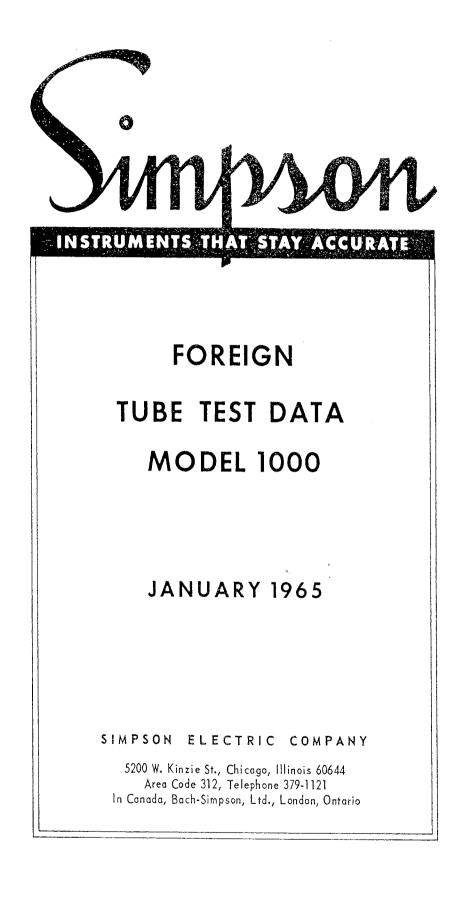
The single handwritten data page contains the "missing data" from two places on this roller chart that were repaired years ago with the clear (aka "scotch tape") tape that darkened the paper to the point of obscuring the data under the repair tape; these places photocopied as solid black. I transcribed 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.



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Simpson

MODEL 1000	FOREIGN TUB	E SUPPLEMENT

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GZ 32 Plate.2 GZ 34 Plate.1	5.0 5.0 5.0	0 0 0	40 40	010-003-000-000 010-300-000-000	F D	F D
GZ 34 Plate.2 H52 Plate.1	5.0	0	41	010-003-000-000	F	F
H52 Plate.2 HAA 91 Dio.1	5.0 12.6	0	41 0	010-300-000-000 001-000-200-032	D AG	D G
HAA 91 Dio.2	12.6	0	0	021-000-000-032 550-105-043-003	BE GHI	B
HABC 80 Tri. HABC 80 Dio.1	19 19	0	72 0	220-102-042-033 220-102-042-033	FG BC	F B
HABC 80 Dio.2 HABC 80 Dio.3	19 19	0	0 0	220-102-042-033	AG	А
HBC 90 Tri. HBC 90 Dio.l	12.6 12.6	0 0	75 55	401-055-200-024 001-022-000-033	ABG BF	G F
HBC 90 Dio.2 HBC 91 Tri.	12.6 12.6	0 24	55 25	001-022-000-033 401-055-200-013	BE ABG	E G
HBC 91 Dio.1 HBC 91 Dio.2	12.6 12.6	0	40 40	001-022-000-033 001-022-000-033	BF BE	С F F
HCH 81 Mixer. HCH 81 Osc.	12.6 12.6	63 0	50 55	240-103-000-022 200-103-400-023	ABCFG	F F
HCH 81 Tri. HCC 85 Tri.2	12.6 14	20 45	25 0	000-100-034-022 340-100-000-022	CHI ABC	H A
HCC 85 Tri.l	14	45	0	000-103-400-022	FGH	FC
HD 14 Tri. HD 14 Dio.	1.4	12 7	98 20	012-050-000-424 012-050-000-405	CEJ	
HD 30 HD 59	1.25 6.3	80 31	83 4	214-005-200-021 401-022-500-001	ACG ABE	E G E J
HD 93 HD 94	1.25 6.3	0 45	95 0	010-050-050-223 010-240-000-321	J DEHJ	J
HD 96 HF 93	25 12.6	45 13	0	010-240-000-321 401-032-000-002	DEHJ ABEFG	J E
HF 94 HK 90 Mixer.	12.6	40 7	0 90	401-032-000-012 401-032-000-002	ABEFG ABEFG	J H H H H H H
HK 90 Osc. HL 90	12.6	25 70	50 5	401- 00 2-000-022 401-032-500-001	FG ABEF	F E
HL 92 HL 94	50 25	7	97 25	041-052-300-000 041-052-200-001	ABFG ABFG	G
HMO4 Mixer. HMO4 Osc.	6.3 6.3	7 25	90 50	401-032-000-002 401-002-000-022	ABEFG FG	G E F E
HY 90	35	07	70 94	001-025-000-000 010-200-000-403	EG DHJ	E D
Н 63	6.3		94	010#200#000#403		
KT 32 KT 63	25 6.3	45 7	44 58	013-240-000-021 013-340-000-001	CDEH CDEH	C C C
KTW 63 KT 66	6.3 6.3	28 90	44 65	013-200-000-412 013-240-000-000	CDEHJ CDEH	C C
KT 71 KT 81	50. 6.3	10 30	0 92	012-240-000-011	CDEH BCFG	C
KI 88 KIW 74	6.3 12.6	20 28	53 44	013-340-000-000 013-200-000-412	CDEH CDEHJ	C C C E C
KIZ 63	6.3	16	40	013-200-000-423	CDEHJ	Č
163 177	6.3 6.3	36 40	15 65	012-040-000-012 351-054-000-011	CEH AFG	C A
				Page-6		

LC 900 LCF 801 Tri. LCF 801 Pen. LCL 84 Tri. LCL 84 Pen. LG11 Pen. LG11 Tri. LN152 Pen. LN152 Tri. LN309 Pen. LN309 Tri. LZ319 Pen. LZ319 Tri.	2.8 5.0 5.0 10 10 6.3 6.3 6.3 6.3 6.3 12.6 12.6 10. 10.	0 0 30 38 62 38 62 38 62 5 34 7 24	68 40 70 58 77 22 10 22 10 22 10 47 80 35 75	401- 030-555 -023 005-100-024-034 045-103-200-034 430-100-000-013 000-103-042-011 000-013-024-022 340-010-000-022 000-013-024-022 340-010-000-022 004-103-200-021 400-100-003-022 042-103-000-012 200-100-004-001	ABE AHI ABFG ABC FGHI CFGHI ABC CFGHI ABC BCFG AHI BCFG AHI	H H H BF FAFAFIFA
N14 N17 N18 N19 N77 N144 N148 * N150 N709 N727 OM 3 Dio.1 OM 3 Dio.2 O149 Plate.1 O149 Plate.1 O149 Plate.2 PABC 80 Tri. PABC 80 Dio.1 PABC 80 Dio.2 PABC 80 Dio.2 PABC 80 Dio.3 PC 900 PC 86 PCC 84 Tri.1 PCC 85 Tri.2 PCC 85 Tri.1 PCC 85 Tri.2 PCC 85 Tri.1 PCC 88 Tri.2 PCC 88 Tri.2 PCC 88 Tri.2 PCC 88 Tri.1 PCF 80 Pen. PCF 80 Pen. PCF 80 Pen. PCF 80 Pen. PCF 86 Pen. PCF 86 Pen. PCF 801 Tri. PCF 801 Tri. PCE 85 Tri. PCL 85 Tri.	$\begin{array}{c} 1.4\\ 2.8\\ 2.8\\ 2.8\\ 6.3\\ 6.3\\ 6.3\\ 6.3\\ 6.3\\ 6.3\\ 6.3\\ 6.3$	$\begin{array}{c} 29\\ 7\\ 35\\ 30\\ 48\\ 48\\ 30\\ 80\\ 35\\ 70\\ 0\\ 0\\ 0\\ 21\\ 7\\ 0\\ 0\\ 0\\ 15\\ 0\\ 0\\ 15\\ 0\\ 0\\ 15\\ 0\\ 0\\ 0\\ 15\\ 0\\ 0\\ 0\\ 15\\ 0\\ 0\\ 0\\ 17\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$	$\begin{array}{c} 41\\ 40\\ 29\\ 34\\ 68\\ 68\\ 92\\ 65\\ 30\\ 5\\ 65\\ 84\\ 84\\ 37\\ 10\\ 55\\ 55\\ 73\\ 84\\ 65\\ 65\\ 0\\ 0\\ 55\\ 55\\ 52\\ 90\\ 30\\ 43\\ 40\\ 70\\ 70\\ 50\\ 65\\ 80\\ 50\\ 75\\ \end{array}$	$\begin{array}{c} 012-240-000-022\\ 024-255-100-022\\ 034-054-100-022\\ 401-030-200-022\\ 401-030-200-022\\ 133-004-000-000\\ 135-524-000-032\\ 540-105-352-011\\ 540-032-500-001\\ 010-020-000-032\\ 012-000-000-032\\ 100-002-000-032\\ 100-002-000-032\\ 220-102-000-032\\ 220-102-000-032\\ 220-100-000-032\\ 401-030-555-023\\ 340-105-555-023\\ 340-105-555-021\\ 042-010-050-022\\ 000-014-052-023\\ 340-100-000-022\\ 000-103-400-012\\ 350-105-004-012\\ 350-105-004-012\\ 350-105-004-012\\ 350-105-004-012\\ 350-105-004-012\\ 350-100-000-012\\ 200-100-004-023\\ 005-104-300-002\\ 045-100-002-034\\ 405-103-200-034\\ 400-100-003-013\\ 004-103-200-021\\ 340-100-003-013\\ 004-103-200-021\\ 340-100-003-013\\ 004-103-200-021\\ 340-100-003-023\\ 000-103-304-001\\ 400-100-003-024\\ 002-103-040-032\\ Page.7\\ \end{array}$	CDE BCD BCD BCF ABEFG ABEFG BCGI ABEF EH CD FG CG GHI FG BC AG ABE ABC AG ABE ABC ABC FGH ABC FGH ABC FGH ABC FGH ABC FGH ABC FGH ABC FGHI ABFG AHI AFG ABHI ABFG ABHI ABFG ABC FGHI ABC FGHI ABC FGHI ABC FGHI ABC FGHI ABC FGHI ABC FGHI ABC FGHI ABC FGHI ABC FGHI ABC FGHI	CBBBEEBGGE ECFC IFBAE A CIAF AF AF FAGHHF IF AF I F

PL 84	14	47	35	540-105-358-021	BCGI	9
PL 500	28	0	40	450-103-555-301	ACFJ	J
P.M. 04	0.3	13	0	401-032-000-002	ABEFG	Ε
PM 05	0.3	23	66	401-032-500-022	ABEF	E
PY 81	14	0	70	555-105-552-000	IJ	I
PY 83	19	0	70	555-105-552-000	IJ	I
PY 88	28	0	80	555-105-552-000	ĨJ	T
QE06/50	6.3	15	77	134-000-000-300	BCDJ	J
QV06-20	6.3	85	35	012-545-005-300	ACEHJ	J
QV05/25	6.3	25	41	153-400-000-311	CFJ	J
RE 1. P-1 RE 1. P-2	5.0 5.0	0 0	55 55	010-003-000-000 010-300-000-000	F D	F D
R52 Plate.1	5.0	0	76	010-002-000-000	F	F
R52 Plate.2	5.0	0	76	010-200-000-000	D	D
RG3-250A	2.5	0	70	100-000-000-200	J	J
SP6	6.3	48	68	401-030-200-022	ABEFG	E
T2M05 Tri.2 T2M05 Tri.1	6.3 6.3	0 0	35 35	301-004-000-023 031-040-000-023	AFG BEG	A B
TM12	6.3	15	85	401-055-200-011	ABG	G
U 41	1.25	0	82	515-050-051-212	J	J
U50 Plate.1	5.0	0	55	010-003-000-000	\mathbf{F}	F
U50 Plate.2	5.0	0	55	010-300-000-000	D	D
U52 Plate.1 U52 Plate.2	5.0 5.0	0 0	41 41	010-003-000-000 010-300-000-000	F D	F D
U70 Plate.l U70 Plate.2	6.3 6.3	0 0	85 85	010-020-000-000 012-000-000-000	EH CE	E C
U78 Plate.1	6.3	0	86	001-002-000-000	FG	F
U78 Plate.2	6.3	0	86	201-000-000-000	AG	A
U82 Plate.l U82 Plate.2	6.3 6.3	0 0	84 84	100-002-000-000 102-000-000-000	FG CG	F C
*U 142	28	0	65	135-555-000-020	BG	В
U 147 Plate.1	6.3	0	85	010-020-000-000	EH	E
U 147 Plate.2	6.3	0	85	012-000-000-000	CE	C
U 709 Plate.1 U 709 Plate.2	6.3 6.3	0	80 80	350-105-355-000 350-105-355-000	A C CG	A G
UABC 80 Tri. UABC 80 Dio.1	25 - 25	17	27	550-105-042-013	GHI	I
UABC 80 DIO.1 UABC 80 Dio.2	25	7	0 40	220-102-000-033 220-100-000-032	FG BC	F B
UABC 80 Dio.3	25	Ō	40	220-100-000-032	AG	Â
UBF 80 Pen.	17	50	38	240-103-550-033	ABCF	F
UBF 80 Dio.1	17	0	30	240-105-220-033	CG	G
UBF 80 Dio.2 UC 92	17 7.5	07	30 21	240-105-220-033 301-004-000-002	CH	H
UCC 85 Tri.2	25	40	25	340-100-000-022	ACFG ABC	A A
UCC 85 Tri.1	25	40	25	000-103-400-022	FGH	F
UBF 89 Pen.	19	52	27	240-103-000-022	ABCF	F
UBF 89 Dio.2 UBF 89 Dio.1	19 19	0	25 25	000-100-220-033	CG CH	G H
UCF 80 Pen,	25	30	35	542-103-004-012	BCFG	F
UCF 80 Tri.	25	20	85	342-105-004-021	THA	A
UCH 81 Mixer UCH 81 Osc	19 19	63 0	50 55	240-103-000-022 200-103-400-023	ABCFG F	FFH
UCH 81 Tri.	19	20	25	000-100-034-022	Čii L	Ĥ
* Rimlock			1	Page.8		

UF 89 UI 84 *UY 41 *UY 41 *UY 42 V2M70 Plate.1 V2M70 Plate.2 W 17 W 63 W 76 W 81 W 81 W 149 WT 294 WD 709 Pen. WD 709 Dio.1 WD 709 Dio.2 W 719	19 12.6 45 28 50 6.3 1.4 6.3 12.6 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.4 1.4	55 55 67 0 0 0 0 7 28 28 30 35 0 50 0 0 10 13	15 0 65 65 86 85 44 44 14 23 73 38 30 30 10 0	540-105-320-022 540-105-320-022 540-105-350-021 135-555-000-020 135-555-000-020 001-002-000-000 021-000-000-000 022-004-100-002 013-200-000-412 132-054-000-012 132-454-000-012 132-454-000-012 132-454-000-012 010-020-000-001 240-103-550-033 240-105-220-033 240-105-220-033 045-100-320-012	BCGHI BCGHI BCGI BG BG FG AG BCF CDH CDH BCG BCG BCG E ABCF CG CH	G G G B B F A B C C B B E F G
UL 84 *UY 41 *UY 42 V2M70 Plate.1 V2M70 Plate.2 W 17 W 63 W 76 W 76 W 149 WT 294 WD 709 Pen. WD 709 Dio.1 WD 709 Dio.2 W 719	45 28 50 6.3 6.3 1.4 6.3 12.6 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 1.4	67 0 0 0 7 28 28 30 35 0 50 0 0 10 13	0 65 65 86 85 44 44 14 23 73 38 30 30 30 10	540-105-350-021 135-555-000-020 135-555-000-020 001-002-000-000 022-004-100-002 013-200-000-412 013-200-000-412 132-054-000-012 132-454-000-012 010-020-000-001 240-103-550-033 240-105-220-033	BCGI BG BG FG AG BCF CDH CDH BCG BCG E ABCF CG	G B B F A B C C B B E F G
*UY 41 2 *UY 42 5 V2M70 Plate.1 6 V2M70 Plate.2 6 W 17 1 W 63 6 W 76 1 W 81 6 W 149 6 WD 709 Pen. 6 WD 709 Dio.1 6 WD 709 Dio.2 6 W 719 6	28 50 6.3 6.3 1.4 6.3 12.6 6.3 6.3 6.3 6.3 6.3 6.3 6.3 1.4	0 0 0 7 28 28 30 35 0 50 0 0 10 13	65 65 86 85 44 44 14 23 73 38 30 30 30 10	$135-555-000-020\\135-555-000-020\\001-002-000-000\\201-000-000-000\\022-004-100-002\\013-200-000-412\\132-054-000-012\\132-454-000-012\\132-454-000-012\\010-020-000-001\\240-103-550-033\\240-105-220-033\\240-105-220-033$	BG BG FG AG BCF CDH CDH BCG BCG BCG E ABCF CG	B B F A B C C B B E F G
*UY 42 5 V2M70 Plate.1 6 V2M70 Plate.2 6 W 17 1 W 63 6 W 76 1 W 81 6 W 149 6 WD 709 Pen. 6 WD 709 Dio.1 6 WD 709 Dio.2 6 W 719 6	50 6.3 6.3 1.4 6.3 12.6 6.3 6.3 6.3 6.3 6.3 6.3 6.3 1.4	0 0 7 28 28 30 35 0 50 0 0 10 13	65 86 85 44 14 23 73 38 30 30 30 10	135-555-000-020 $001-002-000-000$ $201-000-000-000$ $022-004-100-002$ $013-200-000-412$ $132-054-000-012$ $132-454-000-012$ $010-020-000-001$ $240-103-550-033$ $240-105-220-033$	BG FG AG BCF CDH CDH BCG BCG E ABCF CG	B F A B C C B B E F G
V2M70 Plate.1 6 V2M70 Plate.2 6 W 17 1 W 63 6 W 76 1 W 81 6 W 149 6 WT 294 7 WD 709 Pen. 6 WD 709 Dio.1 6 WD 709 Dio.2 6 W 719 6	6.3 6.3 1.4 6.3 12.6 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 1.4	0 0 7 28 28 30 35 0 50 0 0 10 13	86 85 44 14 23 73 38 30 30 30 10	001-002-000-000 201-000-000-000 022-004-100-002 013-200-000-412 132-054-000-012 132-454-000-012 010-020-000-001 240-103-550-033 240-105-220-033	FG AG BCF CDH CDH BCG BCG E ABCF CG	F A B C C B B E F G
V2M70 Plate.2 W 17 W 63 W 76 W 81 W 149 WT 294 WD 709 Pen. WD 709 Dio.1 WD 709 Dio.2 W 719	6.3 1.4 6.3 12.6 6.3 6.3 6.3 6.3 6.3 6.3 6.3 1.4	0 7 28 28 30 35 0 50 0 0 10 13	86 85 44 14 23 73 38 30 30 30 10	$\begin{array}{c} 201-000-000-000\\ 022-004-100-002\\ 013-200-000-412\\ 013-200-000-412\\ 132-054-000-012\\ 132-454-000-012\\ 010-020-000-001\\ 240-103-550-033\\ 240-105-220-033\\ 240-105-220-033\end{array}$	AG BCF CDH CDH BCG BCG E ABCF CG	A B C C B B E F G
W 17 I W 63 6 W 76 I W 81 6 W 149 6 WT 294 7 WD 709 Pen. 6 WD 709 Dio.1 6 WD 709 Dio.2 6 W 719 6	1.4 6.3 12.6 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 1.4	7 28 28 30 35 0 50 0 0 10 13	85 44 14 23 73 38 30 30 30 10	022-004-100-002 013-200-000-412 013-200-000-412 132-054-000-012 132-454-000-012 010-020-000-001 240-103-550-033 240-105-220-033	BCF CDH CDH BCG BCG E ABCF CG	B C C B B E F G
W 63 W 76 W 81 W 149 WT 294 WD 709 Pen. WD 709 Dio.1 WD 709 Dio.2 W 719	6.3 12.6 6.3 6.3 70 6.3 6.3 6.3 6.3 6.3 1.4	28 28 30 35 0 50 0 0 10 13	44 44 23 73 38 30 30 10	013-200-000-412 013-200-000-412 132-054-000-012 132-454-000-012 010-020-000-001 240-103-550-033 240-105-220-033	CDH CDH BCG BCG E ABCF CG	C C B B E F G
W 76 W 81 W 149 WT 294 WD 709 Pen. WD 709 Dio.1 WD 709 Dio.2 W 719	12.6 6.3 6.3 70 6.3 6.3 6.3 6.3 6.3 6.3 1.4	28 30 35 0 50 0 0 10 13	14 23 73 38 30 30 30 10	013-200-000-412 132-054-000-012 132-454-000-012 010-020-000-001 240-103-550-033 240-105-220-033 240-105-220-033	BCG BCG E ABCF CG	B B E F G
W 149 WT 294 WD 709 Pen. 6 WD 709 Dio.1 6 WD 709 Dio.2 6 W 719	6.3 70 6.3 6.3 6.3 6.3 6.3 6.3 1.4	35 0 50 0 0 10 13	23 73 38 30 30 10	132-454-000-012 010-020-000-001 240-103-550-033 240-105-220-033 240-105-220-033	BCG E ABCF CG	B E F G
WT 294 WD 709 Pen. 6 WD 709 Dio.1 6 WD 709 Dio.2 6 W 719 6	70 6.3 6.3 6.3 6.3 6.3 6.3 1.4	0 50 0 10 13	73 38 30 30 10	010-020-000-001 240-103-550-033 240-105-220-033 240-105-220-033	E ABCF CG	E F G
WD 709 Pen. WD 709 Dio.1 WD 709 Dio.2 W 719	6.3 6.3 6.3 6.3 6.3 1.4	50 0 10 13	38 30 30 10	240-103-550-033 240-105-220-033 240-105-220-033	ABCF CG	F G
WD 709 Dio.1 (WD 709 Dio.2 (W 719 (6.3 6.3 6.3 6.3 1.4	0 0 10 13	30 30 10	240-105-220-033 240-105-220-033	CG	G
WD 709 Dio.2 (W 719 (6.3 6.3 6.3 1.4	0 10 13	30 10	240-105-220-033		
	6.3 1.4	13		045-100-320-012		H
W 727	1.4		\cap	010 100-010-010	ABFGH	G
			U U	401-032-000-002	ABEFG	Ε
		70 80	20 95	012-402-000-004 012-402-000-003	CDEFJ	C F
	1.4 1.4	45 0	25 35	032 - 450-100-023 002-450-100-023	BCDF CDF	B C
	1.25 1.25	15 25	85 82	032-024-100-023 032-420-100-023	BCDEF	B B
	6.3 6.3	7 7	81 64	013-202-000-402 013-242-000-002	CDEFJ	C F
	6.3 6.3	60 60	0 85	013-243-000-023 013-243-000-022	CDEFHJ	C F
X 64	6.3	7	73	013-240-000-002	CDEHJ	c
X 65 Mixer	6.3 6.3	7 7	81 64	013-202-000-002 013-202-000-002	CDEFHJ	C F
X 71 Mixer X 71 Osc.	12.6 12.6	7 7	81 64	013-202-000-002 013-202-000-002	CDEFHJ	C F
X 76 Mixer X 76 Osc.	12.6 12.6	7 7	81 64	013-202-000-002 013-202-000-002	CDEFHJ	C F
X 77 Mixer X 77 Osc.	6.3 6.3	7 25	90 50	401-032-000-002 401-002-000-022	ABEFG FG	E F
X 81 Mixer X 81 Osc.	6.3 6.3	60 60	30 76	132-420-000-023 132-420-000-022	BCDEFG	B C
X 148 Mixer X 148 Osc.	6.3 6.3	60 60	30 76	132-420-000-023 132-420-000-022	BCDEFG	B C
X 719 Mixer X 719 Osc.	6.3 6.3	63 0	50 55	240-103-000-022 200-103-400-023	ABCFG	F F
X 719 Tri.	6.3	20	25	000-100-034-022	CHI	Ĥ
X 727 Mixer X 727 Osc.	6.3 6.3	7 25	60 50	401-032-000-002 401-002-000-022	ABEFG FG	E F
XF 183	3.6	0	10	045-100-320-003	ABGHI	G
XF 184	3.6 3.6	15	25	045-100-320-003	ABGHI	G
XY 88	14	0	28	555-105-553-000	IJ	I
Rimlock Base.		-		Page.9		

XL 500	12.6	0	45	4 50- 103 - 555 - 301	ACFJ	J
YC 95	3.6	0	35	041-032-500-022	ABEF	E
YC 97	3.6	0	45	401-030-500-022	ABEF	Έ
YCC 189 Tri.2	5.0	40	57	340-105-400-021	ABC	А
YCC 189 Tri.1	5.0	40	57	540-103-400-021	FGH	F
YF 183 YF 184	5.0 5.0	0 0	0 25	045-100-320-003 045-100-320-003	ABGHI	G
TL TOA	0.0	0	20	040-100-320-003	ABCHI	G
Z 14	1.4	7	79	012-200-000-403	CDJ	C
Z 63	6.3	16	40	013-200-000-423	CDE JH	C
Z 77	6.3	45	65	401-030-200-022	ABEG	E
Z 152 Z 719	6.3 6.3	15 15	20 20	045-100-320-012	ABFGH	G
Z 729	6.3	15 35	20 75	045-100-320-012 200-103-004-012	ABFGH ACFHI	G F
ZD 15 Pen.	1.4	20	65	005-224-100-023	CDEF	r E
ZD 15 Dio.	1.4	7	29	005-224-100-005		C
ZD 17 Pen.	1.4	20	65	005-224-100-023	CDEF	E
ZD 17 Dio.	1.4	7	29	005-224-100-005		С
ZD 152 Ben.	6.3	50	38	240-103-550-033	ABCF	F
ZD 152 Dio.1 ZD 152 Dio.2	6.3 6.3	0 0	30 30	240-105-220-033 240-105-220-033	CG CH	G H
lCl Mixer lCl Osc.	1.4 1.4	45 0	25 35	032-450-100-023 002-450-100-023	BCDF CDF	B C
1D13	1.4	0 7	21	150-055-000-005	CB	B
1F1	1.25	, 15	85	032-554-100-023	BCF	В
1F2	1.4	7	92	022-004-100-022	BCF	B
1F3	1.4	7	85	002-004-100-002	BCF	B
1FD1 Pen.	1.25	50	75	150-234-000-023	CDEF	Ē
lFD1 Dio.	1.25	0	50	152-234-000-023	C	C
1FD9 Pen.	1.4	20	65	005-224-100-023	CDEF	E
lFD9 Dio.	1.4	7	29	005-224-100-005		С
1M3 Target Full		75	90	455-105-530-025	AH	H
1M3 Target Clos		0	90	455-105-530-035		Н
1P1	1.25	15	75	132-504-000-022	BCF	В
1P10 1P11	2.8 2.8	7 30	40 34	024-255 - 100 - 022 032-054-100-022	BCD BCF	B B
5B/250A	≈. 0 6.3	15	77	134-000-000-300	BCDJ	J
STV150/30	50	0	20	215-555-500-002	A	8 A
STV108/30	-	0	60	215-555-500-002	A	A
STV85/10		0	87	305-555-500-021	А	A
			ADDITI	IONAL NEW TYPES		
EN32 Non-Cond.	6.3	0	70	012-010-000-000	CFH	~
EN32 Non-Cond. EN32 Conduct	6.3	0 0	70 70	012-000-000-000	Orn	Č
EN91 Non-Cond.	6.3	0	40	401-042-500-030	ABEF	ř
EN91 Conduct.	6.3	80	40	401-042-500-030		F
XC 95	2.5	0	30	041-032-500-022	ABEF	
X C 97	2.5	0	45	4 01- 030-500-022	ABEF	E
XC 900	2.5	0	60	401-030-555- 023	ABE	E
				Pero IO		

Page. 10

XCC 189 Tri.2 XCC 189 Tri.1	3.6 3.6	40 40	57 57	340-105-400-021 340-103-400-021	ABC FGH	A F
XCF 80 Tri. XCF 80 Pen.	3.6 3.6	0 35	60 70	300-100-040-033 042-102-000-022	AHI BCFG	A F
XCF 801 Tri. XCF 801 Pen.	3.6 3.6	0 0	40 75	005-100-024-034 045-103-200-034	AHI ABFG	H F
XFY 34 XFY 35	1.25 1.25	95 30	45 60	000-412-300-033 000-412-300-034	DEG DFG	G G
EB 41 Plate.1	6.3	0	0	150-002-000-032	FG	F
EB 41 Plate.2 EBC 81 Tri.	6.3 6.3	0 15	0 35	150-200-000-032 340-100-000-023	CD ABC	D A
EEC 81 Dio.1 EBC 81 Dio.2	6.3 6.3	0 0	0 0	540-102-020-033 540-102-020-033	FC HC	C H
EC 86	6.3	60	15	340-105-555-032	ABC	A
EC 92	6.3	50	65	201-004-000-033	A F'G	A
EC 95	6.3	0	58	041-032-500-022	ABEF	Ĕ
EC 97	6.3	0	45	401-030-500-022	ABEF	E
ECC 189 Tri.2 ECC 189 Tri.1	6.3 6.3	40 40	57 57	340-105-400-021 540-103-400-021	ABC FGH	A F
ECF 200 Pen. ECF 200 Tri.	6.3 6.3	25 0	25 75	004-010-325-022 055-510-452-013	BCDGH AGI	G I
USE ADAPTER. 10	Pin Tub	e. Plug	dual ban	ana plug lead into pir	1 #7 of 7 pir	n socket.
ECF 201 Pen. ECF 201 Tri, USE ADAPTER, 10	6.3 6.3 Pin Tub	15 0 Plug	25 40 dual ben	004-010-325-022 055-510-452-023 ana plug lead into pir	BCDGH AGI #7 of 7 pir	G I Socket
					T#/ OF / DI	I SUCKCU.
ECH 200 Hept. ECH 200 Tri. USE ADAPTER. 10	6.3 6.3 Pin Tub	25 O e. Plug	85 85 dual ban	004-210-200-033 255-510-540-023 mana plug lead in pin 7	ABCDG AHI #1 of 7 pin s	G A socket.
EFL 200 Pen.2 EFL 200 Pen.1	6.3 6.3	25 0	80 45	402-210-555-011 555-310-043-033 ana plug lead into pin	ABCD DGHI	D D
ELL 80 Pen.2 ELL 8 0 Pen.1	6.3 6.3	0 0	55 55	343-100-000-012 000-104-033-012	ABCG FGHI	C H
EY 81	6.3	0	37	555-105-553-000	IJ	I
EY 86	6.3	0	55	555-015-555-333	J	J
EY 87	6.3	0	55	555-015-555-333	J	J
EY 88	6.3	0	28	555-105-553-000	IJ	I
EC 900 Em 87	6.3	0	65	401-030-555-023	ABE	E
Target Open El. 87	6.3	25	40	450-103-253-012	ACFGI	T
Target closed	6.3	25	40	450-103-353-012	I	Ĩ
GL-U52 Plate.1 GL-U52 Plate.2		0 0	41 41	010-003-000-000 010-300-000-000	F D	F D
GLKT66	6.3	50	10	013-240-000-011	- CDEH	
GLKE77	6.3	80	85	013-245-005-010	ACDEH	C
GLU77Plate.1		0	40	010-300-000-000	AUDER D	0 10
GLU77 Plate.2	5.0	0	40 40	010-300-000-000 010-003-000-000 PAGE.11	ي ت	D F

GLKT88	6.3	50	10	013-240-000-011	CDEH	C
	8.3 6.3	0	36 86	001-002-000-000 201-000-000-000	FG AG	F' A
GIN709	6.3	35	30	540-105-352-011	BCGI	G
GLU709	8.3	80	85	013-245-005-010	ACDEH	С
GLD717 Plate.1	6.3	0	0	001-000-200-032	AG	G
GLD717 Plate.2	6.3	0	0	021-000-000-032	BE	B
GLZ729	6.3	25	75	200-103-004-012	ACFHI	F
GLB739 Tri.1	12.6	0	77	000-103-405-023	FGH	F
GLB739 Tri.2	12.6		77	340-100-005-023	ABC	A
GLB749 Tri.l	12.6	60	0	340-103-405-022	FG11	F'
GLB749 Tri.2	12.6	60	0	340-103-405-022	ABC	A
GLB759 Tri.l	12.6	0	47	000-103-405-024	FGH	F
GLB759 Tri.2	12.6	0	47	340-100-005-024	ABC	A
LCF200 Pen.	5.0	25	25	004-010-325-022	BCDGH	GI
LCF200 Tri.	5.0	0	75	055-510-452-013	AGI	
		Je. Più	Ig QUAL DE	anana plug lead into p	in #7 of 7 p	in socket.
LCF201 Pen.	5.0	15	25	004-010-325-022	BCDGH	G
LCF201 Tri.	5.0	0	40	055-510-452-023	AGI	I
USE ADAPTET. 10	Pin Tul	be. Plu	ig dual ba	anana plug lead into p	in #7 of 7pi 	n socket.
LCH200 Hept.	5.0	25	85	004-210-200-033	ABCDG	G
LCH200 Tri.	5.0	0	85	255-510-540-023	AHI	A
USE ADAPTER. 10	Pin Tu	be. Plu	ig dual be	an a na plug lead in pin	#1 of 7 pin	socket.
LFL200 Pen.2	10	25	85	402-210-555-011	ABCD	D
LFL200 Pen.1	10	0	55	555-310-043- 03 3	DGHI	D
USE ADAPTER. 10	Pin Tu	be. Plu	ig dual b	anana lead into pin #	4 of 4 pin s	ocket.
LCL 84 Tri.	10	0	58	430-100-000-013	ABC	B
LCL 84 Pen.	10	30	77	000-103-042-011	FGHI	F
LCF 801 Tri.	5.0	0	40	005-100-024-034	AHI	H
LCF 801 Pen.	5.0	0	70	045-103-200-034	ABFG	F
ECF 801 Tri.	6.3	0	40	005-100-024-034	AHI	H
ECF 801 Pen.	6.3		70	045-103-200-034	ABFG	F
PCC 189 Tri.2	7.5	0	47	340-105-400-012	ABC	A
PCC 189 Tri.1	7.5	0	47	540-103-400-012	FGH	F
PCL 84 Tri.	14	0	65	430-100-000-013	ABC	B
PCL 84 Pen.	14	30	83	000-103-042-011	FGHI	F
UBC 81 Tri.	14	15	35	340-100-000-023	ABC	A
UBC 81 Dio.1	14	0	0	540-102-020-033	FC	F
UBC 81 Dio.2	14	0	0	540-102-020-033	HC	H
13D2 Tri.2 13D2 Tri.1	6.3 6.3	45 45	0	430-000-100-022 000-430-100-022	ABC DEF	BE
6D2 Plate.l 6D2 Plate.2	6.3 6.3	0	0	021-000-000-032 001-000-200-032	BE AG	B G
6P9 Tri.	6.3	34	80	400-100-003-022	AHI	I
6P9 Pen.	6.3	65	47	004-103-200-021	BCFG	F
6P13	6.3	35	30	540-105-352-011 Page. 12	BCGI	G

		85	34 0-100- 00 0-031	ABC	A
C.6	ိခ	85	000-103-400-031	FGH	F
6.3	30	85	045-100-302-021	ABGHI	G
6.3	25	75	200-103-004-012	AOPHI	Ē
ê.3	40	75	540-105-353-021	BCGI	G
10 10	0 0	65 80	340-100-000-023 000-103-304-001	ABC FGHI	A F
25	0	70	315-555-500-022	A	A
10	0	60	215-555-500-022	A	A
7.5	35	38	540-105-352-011	BCGI	G
7.5	50	38	540-1-5-352-021	BCGI	G
	6.3 2.3 10 10 25 10 7.5	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6.330856.325756.34075100651008025070100607.53538	6.3 30 85 $045-100-302-021$ 6.3 25 75 $200-103-004-012$ 6.3 40 75 $540-105-353-021$ 10 0 65 $340-100-000-023$ 10 0 80 $000-103-304-001$ 25 0 70 $315-555-500-022$ 10 0 60 $215-555-500-022$ 10 0 60 $215-555-500-022$ 7.5 35 38 $540-105-352-011$	6.3 30 85 045-100-302-021 ABGHI 6.3 25 75 200-103-004-012 ADFHI 6.3 40 75 540-105-353-021 BCGI 10 0 65 340-100-000-023 ABC 10 0 80 000-103-304-001 FGHI 25 0 70 315-555-500-022 A 10 0 60 215-555-500-022 A 7.5 35 38 540-105-352-011 BCGI