

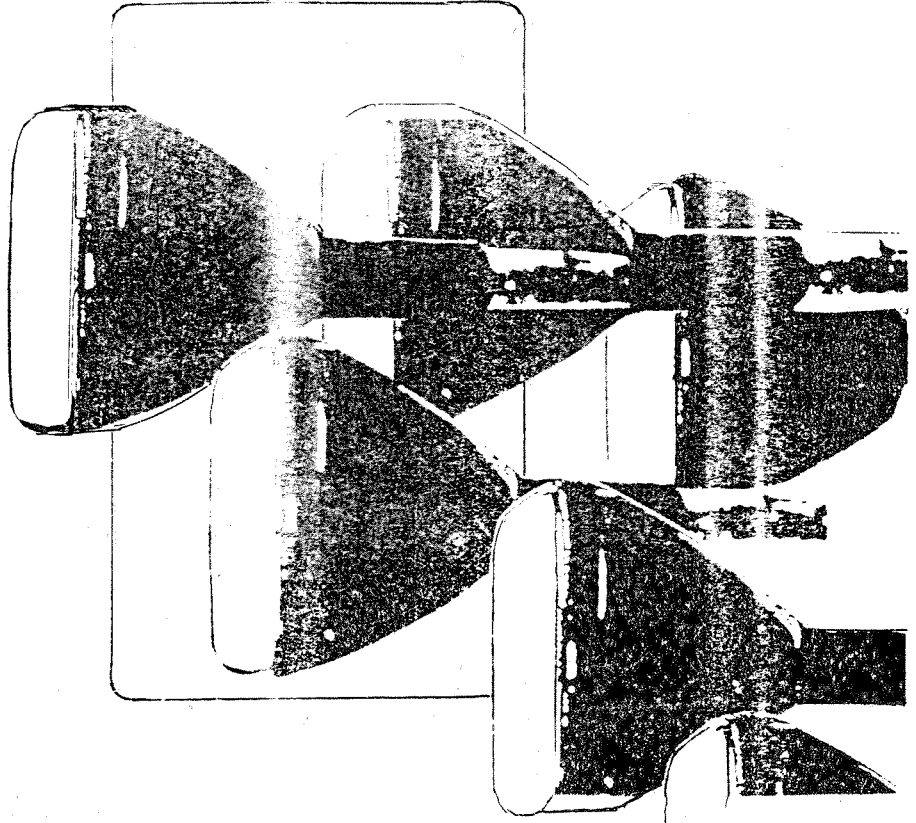
DANDY - DAPTER™
UNIVERSAL PICTURE TUBE ADAPTER

619 CDD

SETUP BOOK

CA-28

CRT TESTER/REJUVENATOR



©

1993

B&K 1-800-462-9882 x210
Dandy Rambo Co. 918-682-4286
Missouri, IL 700-277-9778

G1 Voltage 40V colour

SPECIAL NOTE FOR USERS OF B&K 465/466 TESTERS

USE OF CHARTS 2, 3, 4, 14, 17 thru 38, 40 thru 46, 48 thru 66 (Inline Tubes).

1. Turn COLOR GUN SWITCH to RED/B&W POSITION. (Leave it on Red for all 3 Color Gun tests.)
2. Attach Heaters G1r, G2r, Kr as shown on page 2 Set-Up Chart example and Color CRT Set-Up Chart pages 3 and 4. (You are now TESTING THE RED GUN).
3. TO TEST THE BLUE GUN—Change only the Kr lead to the pin indicated for Kb.
4. TO TEST THE GREEN GUN—Change only the Kr lead to the pin indicated for Kg.

In reference to Chart #4:
 Kr to Pin 8 (Red Gun Test) 8
 Kr to Pin 11 (Blue Gun Test) 11
 Kr to Pin 9 (Green Gun Test) 9
 G1-5 H-9
 G2-7 H-10

Test each Gun as a B/W Tube. On the Charts indicated above, you will not use the following Leads labeled: KB, KG, G1b, G1g, G2b, G 2 g.

On all other Charts, you may hook-up all leads as indicated. All tubes listed in our manual are 6.3 volt tubes.

<p>ALL OTHER MAKES AND MODELS OF CRT TESTERS USE THE STANDARD SETUP PROCEDURE OUTLINED ON PAGE 1 See Note on Testing Inline CRT's on Page 41.</p>
<p>BELTRON USERS NEED NOT HOOK-UP ANY OF THE G2 LEADS.</p>
<p>ON TESTING INLINE TUBES, SEE PAGE 41.</p>

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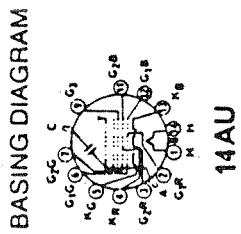
OSCILLOSCOPE TUBES

CRT NO.	H	H	FIL	GUN	K	G1	G2
3ATP1	3	8	6.3	B/W	6	4	1
3AUP1	5	7	2.6	B/W	6	1	3
3BSP1	1	12	6.3	B/W	3	2	8
3BSP2	1	12	6.3	B/W	3	2	8
3BSP7	1	12	6.3	B/W	3	2	8
3BSP11	1	12	6.3	B/W	3	2	8
3RP1A	1	12	6.3	B/W	3	2	8
5BMP1	1	14	6.3	B/W	2	3	5
5BMP2	1	14	6.3	B/W	2	3	5
5BMP15	1	14	6.3	B/W	2	3	5
5DEP1	1	12	6.3	B/W	3	2	8
5M192P	2	8	12.6	B/W	5	1	3
5UP1	1	12	6.3	B/W	3	2	8
6ABP1	7	9	6.3	B/W	12	10	6
7M238P-M	1	14	6.3	B/W	13	5	12
10ANP4	2	8	6.3	B/W	5	4	3
12VCHP7	2	8	6.3	B/W	5	4	3
23M31P	1	12	6.3	B/W	11	2	1
23M95P	1	12	6.3	B/W	11	2	1
23M101P	1	12	6.3	B/W	11	2	1
75AKB1	1	14	6.3	B/W	3	2	7
85DB1	1	14	6.3	B/W	3	2	7
95WB31	1	14	6.3	B/W	2	3	6
95XB31	1	14	6.3	B/W	2	3	11
130ARB1	1	12	6.3	B/W	3	2	8
140CGB31	1	14	6.3	B/W	2	3	12
150DVB31	1	14	6.0	B/W	2	3	12
150DWB31	1	14	6.3	B/W	2	3	12
150DXB31	1	14	6.3	B/W	2	3	12
150DYB31	1	14	6.3	B/W	2	3	12
180XB31	1	14	6.3	B/W	2	3	12
180XB31	1	14	6.3	B/W	2	3	12
180BZB22	1	14	6.3	B/W	2	3	12
180CAB39	1	14	6.3	B/W	2	3	12
180CDB39	1	14	6.3	B/W	2	3	12
180CEB31	1	14	6.3	B/W	2	3	6
55261	1	14	6.3	B/W	7	3	9
D7-221GH	1	14	6.3	B/W	2	3	5
D14-121	1	14	6.3	B/W	7	3	9
D14-123	1	14	6.3	B/W	7	3	9
D14-162GH	1	14	6.3	B/W	7	3	9
D14-370GH	1	14	6.3	B/W	2	3	12
D14-380GH	1	14	6.3	B/W	2	3	12
D14162GH	1	14	6.3	B/W	7	3	9
H9155PB1	1	2	6.3	B/W	3	4	14
M1409P1	1	14	6.3	B/W	5	3	13
WX33825P43	1	12	6.3	B/W	11	2	1

Now that you understand how to use the CA-28 Adapter, let's show you how to determine proper hook-up in the event you come across a CRT not listed, as it is virtually impossible to have a fully updated list of CRT's with new ones coming out all the time.

Let's assume you wish to test a 17ENP22, and you do not find it listed. You would simply look up the basing diagram for this CRT and connect the CA-28 Adapter leads to the corresponding pins as labeled.

EXAMPLE: CRT 17ENP22

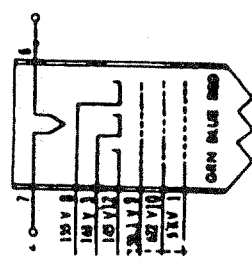


You will note that not all pins on the CRT are used. You would connect the CA-28 Adapter as follows: H-1, H-14, G1R-2, G1B-12, G1G-6, G2R-3, G2B-11, G2G-7, KR-4, KB-13, KG-5.

Basing Diagrams are normally found in the back of the Tube Substitution Manuals.

You may obtain Basing Information from the manufacturers Schematic or H. W. Sams Photofact.

EXAMPLE: CRT 19VDKTCO 2



PINS 6 & 7 Heaters
 PIN 8 (to red) KR
 PIN 3 (to blue) KB
 PIN 12 (to green) KG
 PIN 9 G1s
 PIN 10 G2s

COLOR CRT SETUP CHART

X = DOWN 1 UNIT
 X = INSIDE GRANT
 X = COUPLER

Chart#	H	H	KR	KG	KB	G1R	G1G	G1B	G2R	G2G	G2B
1	6	7	8	12	3	9	13	4	10	11	5
2	6	7	8	12	3	9	9	9	10	10	10
3	7	8	12	10	13	9	9	9	11	11	11
4	9	10	8	6	11	5	5	5	7	7	7
5	1	14	4	5	13	2	6	12	3	7	11
6	1	14	2	6	11	3	7	12	4	5	13
7	4	11	6	6	6	2	7	14	3	1	13
8	1	14	7	11	4	3	13	6	2	12	5
9	1	14	11	7	4	13	3	6	12	2	5
10	1	14	4	7	11	6	3	13	5	2	12
11	1	6	13	2	4	12	14	3	11	7	5
12	1	20	2	7	19	3	8	18	4	9	17
13	7	9	11	8	5	12	10	4	13	6	3
14	7	8	12	10	13	9	9	9	11	11	11
15	1	14	6	4	12	7	3	11	5	2	13
16	6	7	12	10	4	13	9	3	11	8	5
17	1	14	2	6	11	3	3	3	4	5	13
18	1	14	4	7	11	3	3	3	5	2	12
19	4	5	7	9	3	6	6	6	8	8	8
20	1	11	9	4	3	10	10	10	5	5	5
21	3	4	1	7	6	5	5	5	8	8	8
22	6	7	5	9	10	8	8	8	4	4	4
23	5	6	7	9	4	1	1	1	8	8	8
24	5	6	11	8	10	7	7	7	9	9	9
25	1	8	6	4	3	7	7	7	5	5	5
26	1	8	4	6	3	7	7	7	5	5	5
27	4	5	3	7	9	8	8	8	6	6	6
28	6	7	12	10	8	4	4	4	5	5	5
29	1	14	11	6	2	12	7	3	13	13	13
30	5	6	10	9	8	1	1	1	12	12	12
31	5	6	10	9	8	11	11	11	12	12	12
32	1	8	6	4	3	2	2	2	5	5	5

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continued next page

NO.	H	H	PH	QU	K	G1	G2
C7M24P22	1	8	6.3	B/W	7	2	3
C7M108P22	6	7	6.3	B/W	8	11	10
C7M122P22	5	6	6.3	B/W	11	4	10
C7M130P22	6	7	6.3	B/W	11	4	10
C7M135P22	5	6	6.3	B/W	11	4	10
C140P22	5	6	6.3	B/W	11	4	10
C7M141P22	5	6	6.3	B/W	11	4	10
CE391	1	14	6.3	B/W	13	12	11
CE524	1	14	6.3	B/W	13	12	11
CE528M6P	1	14	6.3	B/W	13	12	11
CE551	1	14	12.6	B/W	13	12	11
CE713M6P	1	14	6.3	B/W	13	12	11
CE767	1	14	6.3	B/W	13	12	11
CE781M6P	1	14	6.3	B/W	13	12	11
CE782	1	14	6.3	B/W	13	12	11
CE818	1	14	6.3	B/W	13	12	11
CE821	1	14	6.3	B/W	13	12	11
CE822	1	14	6.3	B/W	13	12	11
CE824	1	14	6.3	B/W	13	12	11
CE844	1	14	6.3	B/W	13	12	11
CE885	1	14	6.3	B/W	13	12	11
CE892	1	14	6.3	B/W	13	12	11
CE917	1	14	6.3	B/W	13	12	11
CE954	1	14	6.3	B/W	13	12	11
E8406	1	14	6.3	B/W	13	12	11
E8409	6	7	6.3	B/W	8	4	10
E8411	6	7	6.3	B/W	13	12	11
E8414	6	7	6.3	B/W	13	12	11
EP96	1	14	6.3	B/W	13	12	11
EP96X16	1	14	6.3	B/W	13	12	11
EP96X17	1	14	6.3	B/W	13	12	11
EP96X18	1	14	6.3	B/W	13	12	11
EP96X19	1	14	6.3	B/W	13	12	11
EP96X20	1	14	6.3	B/W	13	12	11
EP96X21	1	14	6.3	B/W	13	12	11
EP96X22	6	7	6.3	B/W	8	4	10
EP96X25	6	7	6.3	B/W	8	4	10
EP96X26	6	7	6.3	B/W	8	4	10
EP96X30	6	7	6.3	B/W	8	4	10
EP96X31	6	7	6.3	B/W	8	4	10
EP96X32	6	7	6.3	B/W	8	4	10
EW96X12	6	7	6.3	B/W	8	4	10
EW96X13	6	7	6.3	B/W	8	4	10
EW96X14	6	7	6.3	B/W	8	4	10
EWX8	6	7	6.3	B/W	8	4	10
EWX9	6	7	6.3	B/W	8	4	10
EWX10	6	7	6.3	B/W	8	4	10
SD102	5	6	6.3	B/W	9	3	4
SD116	5	6	6.3	B/W	10	4	5
SD130	5	6	6.3	B/W	10	4	5
SD142	5	6	6.3	B/W	9	3	4
SD174	6	7	6.3	B/W	10	4	5
SD186	6	7	6.3	B/W	10	4	5
SD208	6	7	6.3	B/W	10	4	5
VT0625B22	1	14	6.3	B/W	6	7	5
VT0629B22	5	6	6.3	B/W	11	3	10
VT1725B22	1	14	6.3	B/W	6	7	5
VT1729B22	5	6	6.3	B/W	3	3	10
VT2729B22	5	6	6.3	B/W	11	3	10
VT4729B22	5	6	6.3	B/W	11	3	10
VT0708B22	1	14	12.6	B/W	6	7	5
VT0705B22	1	14	6.3	B/W	6	7	5
VT0720B22	1	14	6.3	B/W	6	7	5
VT0725B22	1	14	6.3	B/W	6	7	5
VT0729B22	5	6	6.3	B/W	11	3	10

COLOR CRT SETUP CHART(continued)

Chart#	H	H	KR	KG	KB	G1R	G1G	G1B	G2R	G2G	G2B
33	8	9	5	6	10	7	7	7	4	4	4
34	9	10	8	6	12	6	6	6	5	5	5
35	3	4	1	7	6	2	2	2	8	8	8
36	5	6	7	9	3	6	6	6	8	8	8
37	5	9	8	6	11	10	10	10	7	7	7
38	1	9	7	5	4	8	8	8	6	6	6
39	1	14	2	6	11	3	7	12	5	4	13
40	5	6	11	9	7	3	3	3	4	4	4
41	4	5	7	6	3	5	5	5	2	2	2
42	3	4	7	6	5	8	8	8	9	9	9
43	1	14	7	5	2	6	3	12	13	13	13
44	6	7	8	12	4	9	9	9	10	10	10
45	6	7	8	12	3	13	13	13	10	10	10
46	1	14	11	6	2	12	7	3	4	4	4
47	6	7	8	12	3	9	13	4	10	11	5
48	4	5	9	8	7	3	3	3	2	2	2
49	5	6	10	9	8	11	11	11	3	3	3
50	4	5	7	9	3	2	2	2	8	8	8
51	5	6	10	9	8	4	4	4	3	3	3
52	9	10	8	12	3	5	5	5	10	10	10
53	7	8	12	11	10	6	6	6	5	5	5
54	6	7	13	11	8	12	9	4	5	5	5
55	5	6	12	10	8	11	7	4	9	9	9
56	7	8	12	11	10	6	9	3	5	5	5
57	6	7	13	11	8	12	10	9	5	5	5
58	4	5	7	9	10	3	3	3	6	6	6
59	5	6	3	9	8	4	4	4	10	10	10
60	9	10	8	6	11	12	12	12	7	7	7
61	10	11	9	7	12	6	6	6	8	8	8
62	6	7	8	12	4	9	9	9	12	12	12
63	7	10	11	8	5	9	9	9	12	12	12
64	6	7	13	11	8	4	4	4	5	5	5
65	7	8	12	11	10	6	9	13	5	5	5
66	10	11	9	7	12	5	5	5	8	8	8

On charts showing same pin numbers for G1 or G2, it is OK to hook-up all three G1's or G2's to the same pin. (These are inline tubes).
 -1983,1984,1985,1986,1987,1988,1989,1990,1991,1992,1993.

PROJECTION TUBES

CRT NO.	H	FIL	GUM	K	G1	G2
6ABP1	7	9	6.3	B/W	12	10
6ABP55	7	9	6.3	B/W	12	10
6ABP56	7	9	6.3	B/W	12	10
6ST6191P44	1	14	6.3	B/W	13	5
7ST6611P22	6	7	6.3	B/W	8	5
25XP4	1	14	6.3	B/W	6	7
95L652-31	6	7	6.3	B/W	8	11
95L652-41	6	7	6.3	B/W	8	11
95L652-51	6	7	6.3	B/W	8	11
150AUB22	1	14	6.3	B/W	6	7
160TB22	1	14	6.3	B/W	6	3
170JB22	6	7	6.3	B/W	8	5
170KB22	6	7	6.3	B/W	8	5
170VB22	6	7	6.3	B/W	8	5
170WB22	6	7	6.3	B/W	8	5
180ACB22	6	7	6.3	B/W	8	5
180ADB22	6	7	6.3	B/W	8	5
180AKB22	6	7	6.3	B/W	8	5
180AMB22	6	7	6.3	B/W	8	5
180ATB22	6	7	6.3	B/W	8	5
180AXB22	6	7	6.3	B/W	8	5
180BRB22	6	7	6.3	B/W	8	5
180SB22	6	7	6.3	B/W	8	5
180TB22	6	7	6.3	B/W	8	5
180VB22	6	7	6.3	B/W	8	5
180WB22	6	7	6.3	B/W	8	5
180YB22	6	7	6.3	B/W	8	5
180CGB22	6	7	6.3	B/W	8	11
180HB22	6	7	6.3	B/W	8	11
180CB22	6	7	6.3	B/W	8	11
180LB22	6	7	6.3	B/W	8	11
180RB22	6	7	6.3	B/W	8	4
180TB22	1	14	6.3	B/W	6	3
180WB22	6	7	6.3	B/W	8	4
180YB22	1	14	6.3	B/W	13	12
180YB43	6	7	6.3	B/W	8	11
320DTB22	6	7	6.3	B/W	8	5
330P09002	5	6	6.3	B/W	11	3
330P09003	5	6	6.3	B/W	11	3
330P09004	5	6	6.3	B/W	11	3
330P09005	5	6	6.3	B/W	11	3
330P09006	5	6	6.3	B/W	11	3
330P09007	5	6	6.3	B/W	11	3
A13ABC0BM	7	9	6.3	B/W	12	10
A13ABC0GJ	7	9	6.3	B/W	12	10
A13ABC0RF	7	9	6.3	B/W	12	10
A13ABR0BM	7	9	6.3	B/W	12	10
A13ABR0RF	7	9	6.3	B/W	12	10
C5M36P22	6	7	6.3	B/W	8	5
C5M64P22	1	14	6.3	B/W	13	12
C5M102P22	1	8	6.3	B/W	7	2
C5M109P22	1	8	6.3	B/W	7	2
C5M120P22	6	7	6.3	B/W	8	4
C5M146P22	6	7	6.3	B/W	8	4
C5M1022P22	1	14	6.3	B/W	13	12
C6M34P22	6	7	6.3	B/W	8	11
C6M36P22	6	7	6.3	B/W	8	11

Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #
9VACP22	13	13VCP22	2	15VARRP22	2
9VBAP22	2	13VGP22	10	15VASPP22	18
10VABP22	9	14AFP22	6	15VATP22	4
10VADP22	9	14ADP22	6	15VAWP22	2
10VAHP22	10	14BCP22	5	15VAYP22	4
10VLYP22	2	14BEP22	6	15VAZP22	2
11SP22 13.8V	7	14BFP22	6	15VGAP22	10
12DCP22	6	14BOAP22	6	15WP22	6
12VADP22	6	14VABP22	6	15XP22	6
12VAHP22	6	14VADP22	6	15YP22	8
12VALP22	6	14VAEP22	6	15ZP22	6
12VARP22	6	14VAFP22	6	16BVGPP22	6
12VASP22	6	14VAGP22	6	16CBP22	5
12VBEP22	6	14VAHP22	6	16CDP22	5
13AHP22	6	14VALP22	6	16CSP22	6
13BEP22	10	14VAKP22	6	16CYP22	6
13BVP22	2	14VAMP22	6	16DAP22	6
13BWP22	4	14VANP22	6	16VABP22	6
13BVP22	2	14VAMP22	6	16VACP22	6
13GPP22	6	14VAQP22	6	16VADP22	6
13JP22	6	15-123055	6	16VAEP22	6
13LP22	6	15AAEP22	2	16VAFP22	6
13MP22	6	15AP22	2	16VAHP22	6
13VAEP22	6	15AETCO2	6	16VAKP22	6
13VAFP22	6	15ABP22	2	16VAMP22	6
13VAGP22	10	15ACP22	6	16VANP22	6
13VAHP22	10	15AEP22	6	16VASP22	6
13VAKP22	2	15AFP22	6	16VATP22	6
13VAKTCO2	2	15AGP22	6	16VAUP22	6
13VAMP22	2	15AHP22	6	16VAWP22	8
13VAP22	2	15AJP22	6	16VAXP22	8
13VATP22	2	15FB22	6	16VBDP22	6
13VAUP22	2	15FP22	6	16VBEP22	6
13VAVP22	10	15GP22	6	16VBFP22	6
13VAVP22	10	15HP22	12	16VBGP22	6
13VAYP22	4	15KP22	6	16VBHP22	6
13VBAP22	3	15LP22	6	16VBM22	8
13VBEP22	2	15MP22	8	16VBS22	8
13VBETP22	2	15NP22	6	16VDBP22	9
13VBF22	2	15OP22	6	16VEMP22	8
13VBGP22	2	15PP22	6	16VEP22	6
13VBHP22	18	15RP22	6	17EJP22	6
13VBJP22	4	15SP22	6	17ETP22	6
13VBLP22	4	15STP22	6	17ETP22	6
13VBM22	4	15SUP22	6	17EVP22	6
13VBNP22	3	15VACP22	6	17EXP22	8
13VBNP22	3	15VACTO2	6	17EZP22	8
13VBRP22	3	15VADTCO2	2	17FA22	6
13VBRP22	3	15VADTCO1	2	17FBP22	6
13VBT22	4	15VAECO2	2	17FEP22	6
13VBT22	10	15VAEP22	2	17FGP22	6
13VBUP22	2	15VAGP22	2	17FHP22	6
13VBWP22	3	15VAHP22	10	17FJP22	6
13VBZP22	3	15VAHP22	10	17FKP22	8
13VCAP22	2	15VALP22	10	17FVP22	6
13VCP22	2	15VAMP22	2		6

4-

CRT NO.	H	FIL	GUN	K	G1	G2	CAMERA PICKUP TUBES (continued)							
							CRT NO.	H	FIL	GUN	K	G1	G2	
BC4923	1	8	6.3	B/W	7	5	P8021	1	8	6.3	B/W	7	2	5
BC4924	1	8	6.3	B/W	7	5	P8023	1	8	6.3	B/W	7	2	5
BC4927	3	4	6.3	B/W	1	6	P8038	1	8	6.3	B/W	7	2	5
BC4937	3	4	6.3	B/W	1	5	P8130	1	4	6.3	B/W	5	6	7
BC4992	1	4	6.3	B/W	5	6	P8132	1	4	6.3	B/W	5	6	7
BC4993	1	4	6.3	B.W	5	6	P8160	3	4	6.3	B/W	1	5	6
BC4994	1	4	6.3	B.W	5	6	P8400	1	4	6.3	B/W	5	6	7
BC7735	1	4	6.3	B.W	7	7	P8401	1	4	6.3	B/W	5	5	7
BC8134	1	8	6.3	B/W	7	5	S4097	3	4	6.3	B/W	1	9	6
BC8480	1	8	6.3	B/W	7	5	TV8000	1	8	6.3	B/W	7	2	5
BC8507	1	8	6.3	B/W	7	5	XQ1020	1	4	6.3	B/W	5	6	7
BC8541	1	8	6.3	B/W	7	5	XQ1021	1	4	6.3	B/W	5	6	7
CT2222	3	10	6.3	B/W	8	7	XQ1023	1	4	6.3	B/W	5	6	7
CT2232	3	10	6.3	B/W	8	7	XQ1024	1	4	6.3	B/W	5	6	7
E5180	1	8	6.3	B/W	7	5	XQ1025	1	4	6.3	B/W	5	6	7
H4190	1	8	6.3	B/W	7	5	XQ1026	1	4	6.3	B/W	5	6	7
H4101	3	4	6.3	B/W	7	6	XQ1070	1	8	6.3	B/W	7	2	5
H4104	3	4	6.3	B/W	1	6	XQ1073	1	8	6.3	B/W	7	2	5
H8362	1	8	6.3	B/W	7	5	XQ1075	1	8	6.3	B/W	7	2	5
H8397	3	4	6.3	B/W	1	6	XQ1120	1	8	6.3	B/W	7	2	5
H8398	3	4	6.3	B/W	1	6	XQ1121	1	8	6.3	B/W	7	2	5
H8399	3	4	6.3	B/W	1	6	XQ1240	1	8	6.3	B/W	7	2	5
H9311	3	4	6.3	B/W	1	6	XQ1410	1	4	6.3	B/W	5	6	7
H9324	1	8	6.3	B/W	7	5	XQ1413	1	4	6.3	B/W	5	6	7
H9366	3	4	6.3	B/W	1	6	XQ1415	1	8	6.3	B/W	7	2	5
H9369	1	8	6.3	B/W	7	5	XQ1427	3	4	6.3	B/W	1	5	6
H9379	1	8	6.3	B/W	7	5	XQ2070	1	8	6.3	B/W	7	2	5
H9386	3	4	6.3	B/W	1	6	XQ2073	1	8	6.3	B/W	7	2	5
P841	1	8	6.3	B/W	7	5	XQ2075	1	8	6.3	B/W	7	2	5
P842	1	8	6.3	B/W	7	5	XQ2173	1	8	6.3	B/W	7	2	5
P843	1	8	6.3	B/W	7	5	XQ2175	1	8	6.3	B/W	7	2	5
P844	1	8	6.3	B/W	7	5	XQ2177	1	8	6.3	B/W	7	2	5
P846	1	8	6.3	B/W	7	5	XQ2427	3	4	6.3	B/W	1	5	6
P847	1	8	6.3	B/W	7	5	XQ3427	3	4	6.3	B/W	1	5	6
P8000	1	4	6.3	B/W	5	7								
P8001	1	4	6.3	B/W	5	7								
P8003	1	4	6.3	B/W	5	7								
P8005	1	4	6.3	B/W	5	7								

CAMERA PICKUP TUBES

CRT NO.	H	H	FIL	GUN	K	G1	G2	Tube Type	Chart #	Tube Type	Chart #
20PE13	3	4	6.3	B/W	1	5	6	17JP22	8	18VABP22	6
20PE19	3	4	6.3	B/W	1	5	6	17VAB22	6	18VACP22	6
20PE20	3	4	6.3	B/W	1	5	6	17VABP22	6	18VADP22	6
4075	3	4	6.3	B/W	1	5	6	17VACP22	6	18VAEP22	6
4076	3	4	6.3	B/W	7	2	5	17VADP22	6	18VAFP22	6
4809	1	8	6.3	B/W	7	2	5	17VAEP22	6	18VAGP22	6
4097	3	4	6.3	B/W	1	5	6	17VAFP22	6	18VAHP22	6
4102	3	4	6.3	B/W	1	5	6	17VAGP22	6	18VAJP22	6
4387	3	4	6.3	B/W	1	5	6	17VAHP22	6	18VAKP22	6
4388	3	4	6.3	B/W	1	5	6	17VAJP22	6	18VALP22	6
4389	3	4	6.3	B/W	1	5	6	17VAKP22	6	18VAMP22	6
4532	3	4	6.3	B/W	7	2	5	17VALP22	6	18VANP22	6
4543	1	8	6.3	B/W	7	2	5	17VAMP22	6	18VAQP22	6
4804	1	8	6.3	B/W	7	2	5	17VAMPCO1	2	18VARP22	6
4810	1	8	6.3	B/W	7	2	5	17VANP22	2	18VASP22	6
4833	3	4	6.3	B/W	1	5	6	17VANTCO1	2	18VATP22	6
4848	3	4	6.3	B/W	1	5	6	17VANTCO2	2	18VAWP22	6
4890	1	8	6.3	B/W	7	2	5	17VAP22	10	18VAXP22	6
4904	3	4	6.3	B/W	1	5	6	17VAQP22	10	18VAZP22	6
4911	3	4	6.3	B/W	1	5	6	17VARP22	6	18VBAP22	6
7038	1	8	6.3	B/W	7	2	5	17VASP22	6	18VBCP22	6
7262	1	8	6.3	B/W	7	2	5	17VATP22	2	18VBDP22	6
7697	1	8	6.3	B/W	7	2	5	17VATTCO2	2	18VBEF22	6
7735	1	8	6.3	B/W	7	2	5	17VAUP22	6	18VBF22	6
8134	1	8	6.3	B/W	7	2	5	17VAWP22	6	18VBGP22	6
8480	1	8	6.3	B/W	7	2	5	17VAXP22	10	18VBHP22	6
8507	1	8	6.3	B/W	7	2	5	17VAYP22	2	18VBJP22	6
8541	1	8	6.3	B/W	7	2	5	17VAYTCO1	2	18VJLP22	6
8572	1	8	6.3	B/W	7	2	5	17VAYTCO2	2	18JMP22	6
8625	1	8	6.3	B/W	7	2	5	17VAZP22	2	19JNP22	6
8628	1	8	6.3	B/W	7	2	5	17VAZTCO2	2	19JOP22	6
8638	1	8	6.3	B/W	7	2	5	17VBAP22	2	19JRP22	6
8758	4	6	6.3	B/W	2	7	8	17VBCP22	10	19JSP22	6
8758A	4	6	6.3	B/W	2	3	8	17VBDP22	10	19JTP22	6
8823	3	4	6.3	B/W	1	5	6	17VBDP22	2	19JUP22	6
8844	3	4	6.3	B/W	1	5	6	17VBDP22	18	19JVP22	6
9901	1	8	6.3	B/W	7	2	5	17VBHP22	10	19JWP22	6
9915	1	8	6.3	B/W	7	2	5	17VBJP22	2	19JXP22	6
BC4379	1	8	6.3	B/W	7	2	5	17VBJCO1	2	19JYP22	6
BC4380	3	4	6.3	B/W	1	5	6	17VBLP22	2	19JZP22	6
BC4386	1	8	6.3	B/W	7	2	5	17VBMF22	4	19KAP22	6
BC4390	3	4	6.3	B/W	1	5	6	17VBNP22	3	19KBP22	6
BC4391	3	4	6.3	B/W	1	5	6	17VBNP22	18	19KCP22	6
BC4396	1	8	6.3	B/W	7	2	5	17VBQP22	18	19KHP22	6
BC4398	3	4	6.3	B/W	1	5	6	17VBRP22	18	19KJP22	6
BC4399	3	4	6.3	B/W	1	5	6	17VBS22	4	19KOP22	6
BC4532	1	8	6.3	B/W	7	2	5	17VBT22	10	19KEP22	6
BC4592	1	4	6.3	B/W	5	6	7	17VBU22	18	19KFP22	6
BC4593	1	4	6.3	B/W	5	6	7	17VBWP22	18	19KGP22	6
BC4594	1	4	6.3	B/W	5	6	7	17VBXP22	18	19KHP22	6
BC4809	1	8	6.3	B/W	7	2	5	17VBY22	4	19KJP22	6
BC4892	1	8	6.3	B/W	7	2	5	17VBZP22	4	19KJP22	6
BC4893	1	8	6.3	B/W	7	2	5	17VCBP22	3	19KLP22	6
BC4894	1	8	6.3	B/W	7	2	5	17VCDP22	10	19KLP22	6
BC4908	1	8	6.3	B/W	7	2	5	17VDBP22	2	19LXP22	4
BC4909	3	4	6.3	B/W	1	5	6	17VGBP22	10	19SENP22	10
BC4917	3	4	6.3	B/W	1	5	6	17VMBP22	4	19TP22	12
BC4922	1	8	6.3	B/W	7	2	5				

Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type
4	M48JTK11X	4	M48KMZ80X	4	M51KEC00X	4	19VKRP2L	6	19VNAP22	4	19VNBP22	6	21GRP22	6	21GRP22
4	M48JTD22X	4	M48KNA74X	4	M51KEC01X	4	19VKSPP2	4	19VNBP22	4	19VNDP22	5	21GUP22	5	21GUP22
4	M48JTQ02X	4	M48KNB80X	4	M51KEC10X	4	19VKTP22	6	19VNDP22	4	19VNDP22	5	21GVP22	5	21GVP22
4	M48JTQ32X	4	M48KNC74X	4	M51KEL10X	4	19VKUP22	4	19VNDP22	4	19VNDP22	6	21GWP22	6	21GWP22
4	M48JTQ82X	4		4	M51KEL11X	4	19VKVP22	6	19VNDP22	4	19VNDP22	5	21GXP22	5	21GXP22
4	M48JU037X	4		4	M51KEL20X	4	19VKWP22	2	19VNDP22	3	19VNDP22	5	21GYP22	5	21GYP22
4	M48JUN04XX	4		4	M51KEL21X	4	19VKXP22	3	19VNDP22	4	19VNDP22	5	21GZP22	5	21GZP22
4	M48JUP04XX	4		4	M51KFE20XX	61	19VKYP22	24	19VNDP22	4	19VNDP22	5	21HAP22	5	21HAP22
4	M48JUR04XX	4		4	M51KFM70X	4	19VKZP22	18	19VNDP22	4	19VNDP22	6	21HBP22	6	21HBP22
4	M48JXA11X	4		4	M51KFW80X	4	19VLP22	6	19VNDP22	5	19VNDP22	18	21VABP22	18	21VABP22
4	M48JU022X	4		4	M51KGR118	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VACP22	6	21VACP22
4	M48JUD37X	4		4	M51KGR118	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VADP22	6	21VADP22
4	M48JUN04XX	4		4	M51KGR515X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48JUP04XX	4		4	M51KHB70X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48JUR04XX	4		4	M51KHC70X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48JXD32X	4		4	M51KHD80X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48JYE32X	4		4	M51KHE80X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48JYJ80X	4		4	M51KHL199	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48JZB10X	4		4	M51KMC23X	61	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48JZF22X	4		4	M51KTG170X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48JZJ11X	4		4	M56JHX30X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48JZP56X	4		4	M61KEW05X	57	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KAC36X	4		4	M61KEX05X	64	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KAC56X	4		4	M61KEX15X	64	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KAY12X	4		4	M63JEZ00X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KAY30X	4		4	M63JRG00X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KAY32X	4		4	M63JUA21X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KAY62X	4		4	M63JUA25X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KAZ12X	4		4	M63JUA27X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KBA20X	4		4	M63JUA28X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KBA22X	4		4	M63JUA28Y	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KBA73X	4		4	M63JUA29X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KBA74X	4		4	M63JUA91X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KBB22X	4		4	M63JUA95X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KBC22X	4		4	M63JUA96X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KBC70X	4		4	M63JUA97X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
61	M48KB104XX	61		61	M63JUA98X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
61	M48KB26X	61		61	M64KGX10X	65	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
61	M48KBK04XX	61		61	M64KGX11X	65	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KBK26X	4		4	M65JUA91X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KBL04XX	4		4	M66JHX00X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KBL26XX	4		4	M66JHX01X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KBS12X	4		4	M66JHX30X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KBT22X	4		4	M66JHX32X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48BU22X	4		4	M66JHX90X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KDA56X	4		4	M68JKA11X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KFD26XX	4		4	M68JUA20X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KFK73X	4		4	M68JUA21	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KFR00X	4		4	M68JUA21X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KFR10X	4		4	M68JUA22X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KFR20X	4		4	M68JUA23X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KFR21X	4		4	M68JUA24	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KHS494X	4		4	M68JUA24X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KHS994X	4		4	M68JUA25	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4	M48KJZ36X	4		4	M68JUA25X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4		4		4	M68JUA26	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22
4		4		4	M68JUA26X	4	19VLP22	2	19VNDP22	6	19VNDP22	6	21VAEP22	6	21VAEP22

Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #
22ANP22	6	23VAYP22	6	25AEP22	6	M38KKH54X	4	M48AAV000X	4	M48JGN72X	4
22AQP22	6	23VAZP22	6	25AFP22	6	M38KUR43X	4	M48ACJ00X	4	M48JGN74X	4
22ARP22	6	23VABP22	6	25AGP22	6	M38KUS42X	4	M48AJC00X	4	M48JGN80X	4
22ASP22	6	23VBCP22	6	25AHP22	6	M41JGK00X	4	M48JBR00X	4	M48JGP57X	22
22ATP22	6	23VBDP22	6	25AJP22	6	M41JQY00X	4	M48JBY02X	4	M48JGQ17X	4
22AVP22	6	23VBERP22	6	25AKP22	6	M41JSD15X	55	M48JBY72X	4	M48JGQ27X	4
22AWP22	6	23VBFPP22	6	25ALP22	6	M41JSD16X	55	M48JCP11X	4	M48JGQ33X	4
22AXP22	6	23VBGPP22	6	25AMP22A	6	M41JTG15X	55	M48JCG61X	4	M48JGQ35X	4
22AYP22	6	23VBHP22	6	25AMP22	6	M41JUUA00X	4	M48JCR21X	4	M48JGQ39X	4
22AZP22	6	23VBJP22	6	25ANP22	6	M41JUXX00X	4	M48JCR21X	4	M48JGQ39X	4
22BCP22	6	23VBKP22	6	25AQP22	6	M41JUYY00X	4	M48JDG40X	22	M48JHW20X	4
22BGP22	6	23VBLP22	6	25ARP22	6	M41JUYY10X	4	M48JDJ00X	4	M48JHW22X	4
22EFP22	6	23VBNP22	6	25ASPP22	6	M41JUYY21X	4	M48JDJ02X	4	M48JKT22X	4
22EJP22	6	23VBNP22	6	25ATP22	6	M41JUYYT00X	4	M48JDJ10X	4	M48JKT22X	4
22EP22	6	23VBRP22	6	25AUP22	6	M41JVF20X	4	M48JDJ70X	4	M48JL112X	4
22GP22	6	23VBRP22	6	25AVP22	6	M41KBH00X	61	M48JDJ80X	4	M48JL122X	4
22JP22	6	23VBT22	6	25AWP22	6	M41KED00X	4	M48JDJ84X	4	M48JL30X	4
22KP22	6	23VBU22	6	25AXP22	6	M41KED01X	4	M48JDM12X	4	M48JL31X	4
22LP22	6	23VBP22	6	25AYP22	6	M41KED10X	4	M48JDM31X	4	M48JL32X	4
22OP22	6	23VBP22	6	25AZP22	6	M41KED11X	4	M48JDU02X	4	M48JL32X	4
22RP22	6	23VBP22	6	25BAP22	6	M41KEN10X	4	M48JDU11X	4	M48JL32X	4
22SP22	6	23VBP22	6	25BAP22	6	M41KEN11X	4	M48JDU61X	4	M48JL32X	4
22UP22	6	23VBP22	6	25BAP22	6	M41KEN20X	4	M48JEF01X	4	M48JL32X	4
22VP22	6	23VBP22	6	25BDP22	6	M41KEN21X	4	M48JEF03X	4	M48JL32X	4
22VAGP22	6	23VCEP22	6	25BFP22	6	M41KEN21X	4	M48JEF04X	4	M48JL32X	4
22WP22	6	23VCFP22	6	25BHP22	6	M41KEX10X	4	M48JEF73X	4	M48JL32X	4
22XP22	6	23VCGP22	6	25BHP22	6	M41KEX11X	4	M48JEF74X	4	M48JL32X	4
22YDFP22	6	23VCHP22	6	25BJP22	6	M41KEX20X	4	M48JEG19X	4	M48JL32X	4
22YP22	6	23VCJP22	6	25BLP22	6	M41KEX21X	4	M48JEG27X	4	M48JL32X	4
23BALP22	6	23VCKP22	6	25BNP22	6	M41KJF16	4	M48JEG33X	4	M48JL32X	4
23BP22	6	23VCKP22	6	25BNP22	6	M41KJF23	4	M48JEG35X	4	M48JL32X	4
23CBP22	6	23VCNP22	6	25BRP22	6	M41KKA15X	4	M48JEK20X	4	M48JL32X	4
23EGP22A	6	23VCRP22	6	25BRP22A	6	M41KKL80X	61	M48JEK21X	4	M48JL32X	4
23VABP22	6	23VCGZP22	6	25BRP22A	6	M41KKL80X	4	M48JFB49X	22	M48JL32X	4
23VACP22	6	23VFN22	6	25BTP22	6	M41KKNP10X	4	M48JFB49X	22	M48JL32X	4
23VADP22	6	23VFP22	6	25BTP22	6	M41KKNP11X	31	M48JF32X	4	M48JL32X	4
23VAEP22	6	23VFP22	6	25BVP22	6	M41KKNP15X	31	M48JF32X	4	M48JL32X	4
23VAGP22	6	23VDFP22	6	25BXP22	6	M41KKNP16X	31	M48JF32X	4	M48JL32X	4
23VAHP22	6	24VABP22	11	25BYP22	6	M41KNQ51Y	31	M48JF54X	4	M48JL32X	4
23VALP22	6	24VAP22	11	25BZP22	6	M41KR1V180X	31	M48JF55X	4	M48JL32X	4
23VAMP22	6	25ACP22	6	25CAP22	6	M41KR1V180X	4	M48JF55X	4	M48JL32X	4
23VANP22	6	25ADP22	6	25CBP22	6	M41KRW180X	4	M48JF59X	4	M48JL32X	4
23VAP22	6	25AP22	6	25CP22	6	M41KRW180X	4	M48JFR08X	6	M48JL32X	4
23VARP22	6	25AP22A	6	25CZP22	6	M41KSD15X	4	M48JFR08X	22	M48JL32X	4
23VASP22	6	25ABP22	6	25DMP22	6	M41KSW180X	4	M48JG39X	4	M48JL32X	4
23VAUP22	6	25BP22	6	25EGP22	6	M41KSY180X	4	M48JG39X	4	M48JL32X	4
23VAMP22	6	25VCP22	6	25FGP22	6	M41KUG23X	4	M48JG39X	4	M48JL32X	4
23VAXP22	6	25VQOP22	6	25GP22A	6	M43ACR22X	4	M48JG39X	4	M48JL32X	4
				25GYOP22	4	M45KKR016WL	4	M48JG42X	4	M48JL32X	4

Handwritten notes:
 M48AAV000X
 M48JGN74X
 M48JGN80X

Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #
M34KMQ00X	4	M36JWY20XX	4	M36KNU26X	4	25LP22	6	25VCGP22	6
M34KNE20X	4	M36JWY21XX	4	M36KNV26X	4	25RP22	6	25VCHP22	6
M34KNU20X	4	M36JWY22X	4	M34KPA21X	4	25SP22	6	25VCJP22	6
M34KNN20X	4	M36JWY23X	4	M36KPJ26X	4	25UP22	6	25VCKP22	6
M34KNZ392X	4	M36JXG23X	4	M36KPL26X	4	25VP22	6	25VEZP22	6
M34KQA20X	4	M36JYW89X	4	M36KPM26X	4	25VABP22	6	25VCLP22	6
M34KQA22X	4	M36JYX89X	4	M36KPN26X	4	25VACP22	6	25VZAP22	6
M34KPH32X	4	M36JY99X	4	M36KPN26X	4	25VACP22	6	25VFBP22	6
M34KPH32X	4	M36KAW00X	4	M36KRY23X	4	25VACP22	6	25VFCP22	6
M34KRF42X	4	M36KBQ00XX	4	M36KRZ23X	4	25VADP22	6	25VFDP22	6
M34KRF42X	4	M36KBQ01XX	4	M36KSC23X	4	25VAEP22	6	25VFGP22	6
M34KRF52X	4	M36KBQ02X	4	M36KSC24X	4	25VAFP22	6	25VFHP22	6
M34KRL62X	4	M36KBQ03X	4	M36KSD23X	4	25VAGP22	6	25VFKP22	6
M34KRL62X	4	M36KBQ22X	4	M36KSD24X	4	25VAJP22	6	25VFLP22	6
M34KRN02X	4	M36KBQ21XX	4	M36JAB00X	22	25VAKP22	6	25VFMF22	6
M34KRN02X	4	M36KBQ23X	4	M37-102X	4	25VALP22	6	25VFNFP22	6
M34KSP23X	4	M36KBQ23X	4	M37-120X	4	25VAMP22	6	25VFNFP22	6
M34KUL42X	4	M36KBR00XX	4	M38JAB51	4	25VAMP22	6	25VFNFP22	6
M34KUM52X	4	M36KBR01XX	4	M38JAC51X	4	25VAMP22	6	25VFNFP22	6
M34KUN62X	4	M36KBR20XX	4	M38JEC00X	4	25VAMP22	6	25VFNFP22	6
M34KUP82X	4	M36KBR21XX	4	M38JEK01X	4	25VAMP22	6	25VFNFP22	6
M34KUQ02X	4	M36KCM36X	4	M38JEK30X	4	25VAMP22	6	25VFNFP22	6
M35JAA4WH	4	M36KDC189X	4	M38JEK31X	4	25VAMP22	6	25VFNFP22	6
M35JJA4GR	4	M36KEK00X	4	M38JFJ35X	4	25VAMP22	6	25VFNFP22	6
M36ADJ00X	4	M36KEK01X	4	M38JFJ36X	4	25VAMP22	6	25VFNFP22	6
M36AEB00X	4	M36KEK20X	4	M38JFJ37X	4	25VAMP22	6	25VFNFP22	6
M36AEB22X	4	M36KEK21X	4	M38JFJ39X	4	25VAMP22	6	25VFNFP22	6
M36AEB46X	4	M36KEN26X	4	M38JFJ47X	4	25VAMP22	6	25VFNFP22	6
M36AEB98	4	M36KGF20X	4	M38JFJ49X	4	25VAMP22	6	25VFNFP22	6
M36AEB99X	4	M36KGF21X	4	M38JFJ57X	4	25VAMP22	6	25VFNFP22	6
M36AES60X	4	M36KGT50	4	M38JEJ67X	4	25VAMP22	6	25VFNFP22	6
M36AEW11	4	M36KGT50XB	4	M38JGN00X	4	25VAMP22	6	25VFNFP22	6
M36JCA00X	4	M36KGT50XBX	4	M38JGN01X	4	25VAMP22	6	25VFNFP22	6
M36JGB01X	19	M36KHF189	4	M38JGN01X	4	25VAMP22	6	25VFNFP22	6
M36JGK00X	4	M36KHG189X	4	M38JGN88X	4	25VAMP22	6	25VFNFP22	6
M36JGK30X	4	M36KHC189X	4	M38JGS02X	4	25VAMP22	6	25VFNFP22	6
M36JGK90X	4	M36KKJ50X	4	M38JL00X	4	25VAMP22	6	25VFNFP22	6
M36JGL00X	4	M36KKW24	4	M38JL01X	4	25VAMP22	6	25VFNFP22	6
M36JGL30X	4	M36KKW26	4	M38JL01X	4	25VAMP22	6	25VFNFP22	6
M36JGL80X	4	M36KKY20X	4	M38JL03X	4	25VAMP22	6	25VFNFP22	6
M36JGL90X	4	M36KKY23X	4	M38JL04X	4	25VAMP22	6	25VFNFP22	6
M36JQ00X	19	M36KLY26X	4	M38JL04X	4	25VAMP22	6	25VFNFP22	6
M36JPC20X	4	M36KLY26X	4	M38JL04X	4	25VAMP22	6	25VFNFP22	6
M36JSB70X	19	M36KLY50X	4	M38JL04X	4	25VAMP22	6	25VFNFP22	6
M36JY00X	4	M36KLN50XB	4	M38JL04X	4	25VAMP22	6	25VFNFP22	6
M36JY01X	4	M36KLY23X	4	M38JL04X	4	25VAMP22	6	25VFNFP22	6
M36JY02X	4	M36KLY23X	4	M38JL04X	4	25VAMP22	6	25VFNFP22	6
M36JY02X	4	M36KMA23X	4	M38JL04X	4	25VAMP22	6	25VFNFP22	6
M36JY21XX	4	M36KMB23X	4	M38JL04X	4	25VAMP22	6	25VFNFP22	6
M36JVE90X	4	M36KMB23X	4	M38JL04X	4	25VAMP22	6	25VFNFP22	6
M36JVM23X	4	M36KME23X	4	M38JL04X	4	25VAMP22	6	25VFNFP22	6
M36JVN13X	4	M36KMF23X	4	M38JL04X	4	25VAMP22	6	25VFNFP22	6
M36JVN23X	4	M36KMH26X	4	M38JL04X	4	25VAMP22	6	25VFNFP22	6
M36JVN23XX	4	M36KML26X	4	M38JL04X	4	25VAMP22	6	25VFNFP22	6
M36JWY00XX	4	M36KML50XB	4	M38JL04X	4	25VAMP22	6	25VFNFP22	6
M36JWY01XX	4	M36KMU250XB	4	M38JL04X	4	25VAMP22	6	25VFNFP22	6
M36JWY02X	4	M36KNT26X	4	M38JL04X	4	25VAMP22	6	25VFNFP22	6
M36JWY03X	4			M38JL04X	4	25VAMP22	6	25VFNFP22	6

Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #
25VHMP22	3	170KB22	13	320AGB22	6	M34JLSF7X	4	M34JLSC12X	4	M34KDU01XX	4
25VHNPP22	3	170KB22Q	13	320AHB22	6	M34JLS59X	4	M34JTC00X	4	M34KDU10XX	4
25VHQPP22	3	174BNP22	4	320AJB22	6	M34JLS59X	4	M34JTD00X	4	M34KDU11XX	4
25VHRP22	3	200HB22	2	320AKB22	6	M34JLW00X	4	M34JTT10X	4	M34KDV00XX	4
25VHSP22	4	200KB22	1	320ARB22	6	M34JLW01X	4	M34JTW90X	4	M34KDV01XX	4
25VHTP22	3	200GB22	6	320AVB22	13	M34JLW03X	4	M34JTY60X	19	M34KDV10XX	4
25VHUP22	4	200LB22	6	320AWB22	2	M34JLW40X	4	M34JUB30X	4	M34KDV11XX	4
25VLHP22	3	200RB22	6	320AXB22	2	M34JLW80XH	4	M34JUN23XX	4	M34KDW00XX	4
25VPP22	6	200TB22	2	320AYB22	13	M34JMA00X	4	M34JUP23XX	4	M34KDW01XX	4
25VZFP22	6	220CB22	19	320BJB22	6	M34JMA03X	4	M34JUR23XX	4	M34KDW10XX	4
25VST6454A	6	220DB22	2	320BKB22	2	M34JMA10X	4	M34JUS39X	4	M34KDW11XX	4
25WP22	6	220GB22	27	320BMB22	2	M34JME00X	4	M34JUS23X	4	M34KDZ30X	4
25XP22	6	220HB22	2	320BMB22	2	M34JME03X	4	M34JUSXX	4	M34KFF80X	4
25ZP22	6	220PB22	2	320BMB22	2	M34JME10X	4	M34JVC00X03	4	M34KFF90X	4
26AP22	6	220PB22	2	320BSB22	24	M34JMH8W	4	M34JVN13X	4	M34KFG00X	4
26DP22	6	230BWB22	27	320BTB22	2	M34JMH8W	4	M34JVT22X	4	M34KFL21X	4
26EP22	6	230BYB4	25	320BUB22	2	M34JMN00X	4	M34JVT22X	4	M34KFP30X	19
26EZF22	6	230BYB22	25	320BWB22	2	M34JMN02X	4	M34VX80X	4	M34KEQ11X	4
26FP22	6	250ACB22	25	320BWB22	2	M34JMN62X	4	M34JY84X	4	M34KFT00X	4
26GP22	6	250AGB22	2	320BWB22	6	M34JMN70X	4	M34JWH05X	4	M34KFT03X	4
26HP22	6	250AKB22	2	320CB22A	6	M34JMN72X	4	M34JWK73X	4	M34KFT03X	4
26KP22	6	250AMB22	25	320CFB22	2	M34JMN92X	4	M34JWZ00X	4	M34KGD980X	4
26VABP22	11	250ARB22	19	320CGB22	2	M34JMW00X	4	M34JWZ10X	4	M34KGD992	4
27AFP22	6	250ARB22	4	320CXB22	19	M34JNC03X	4	M34JXC00X	4	M34KGD992	4
29JAL70X	14	250MB22	6	320CXB22	4	M34JND12X	4	M34JYD56X	4	M34KH00X	4
29JAM11X	4	250NB22	6	320CYB22	44	M34JNG19X	4	M34JYD56X	4	M34KH00X	4
29JAM60X	4	250RB22	25	320DB22	6	M34JNP00X	4	M34JY770X	4	M34KH200	4
32WB22	4	250TB22	6	320DCB22	4	M34JNP10X	4	M34JYU87X	4	M34KJB20	4
33ACD42X	4	250TB22A	6	320DEB22	4	M34JNP80X	4	M34JZP80X	44	M34KJB20	4
34KDN20	4	250XB22	2	320DFB22	4	M34JPN89X	4	M34JZP80X	4	M34KJB21	4
37GDA85X	19	270AEB22	19	320DGB22	4	M34JPN93X	4	M34JZT80X	4	M34KJB30	4
37GDA86X	19	270AKB22	19	320DHB22	4	M34JNQ10X	31	M34JZU80X	4	M34KJC20	4
37GGC84X	4	270ALB22	19	320DJB22	4	M34JNQ15X	31	M34KAM00X	4	M34KJC21	4
37JG687X	4	270EB22	6	320DKB22	4	M34JNR00X	64	M34KBE20X	4	M34KJC30	4
37JG688X	4	270JB22	13	320DMB22	4	M34JNR21X	64	M34KBE21X	31	M34KJD20	4
48LAH05X	4	270KB22	6	320DNB22	4	M34JNR30X	64	M34KBE30X	31	M34KJD21	4
51GGB95X	4	270KCB22	13	320EB22	6	M34JNR30X	64	M34KBE31X	31	M34KJD23	4
85XB22	35	270LB22	13	320GB22	6	M34JNR31X	64	M34KBG23XX	4	M34KJD26	4
120AUB22	19	270LB22Q	13	320GB22	6	M34JPB80X	4	M34KBV50X	4	M34KJE21	4
120AWB22	19	270MB22	2	320HB22A	6	M34JPC25X	4	M34KBV70	4	M34KJE23	4
13AJBBOOX	19	270NB22	13	320HIB22	6	M34JPM80X	4	M34KBV70DM	4	M34KJE26	4
140AXB22	6	270RB22	13	320JB22	6	M34JPR61X	4	M34KBV70DM	4	M34KJL05	4
140BYB22	35	270SB22	13	320KB22	6	M34JPR70X	4	M34KBV80X	4	M34KJL05	4
140CCB22	19	270TB22	13	320LB22	6	M34JPR70X	4	M34KBV82X	4	M34KLE00	4
140DXB22	19	270UB22	13	320LB22	6	M34JPS00X	4	M34KBV282X	4	M34KLC23X	4
140DXB22	19	270VB22	2	320LEB22	4	M34JPS00X	4	M34KBW83X	4	M34KLC23X	4
150AYB22	19	270WB22TLO	22	320MB22	6	M34JPS77X	4	M34KBW83X	4	M34KLP20X	4
150AZB22	19	270WB22	13	320NB22	6	M34JPS77X	4	M34KCH10X	4	M34KLP21X	4
150BMB22	35	290FB22	2	320RB22	6	M34JPS80X	4	M34KCH13X	4	M34KLP22X	4
150BMB22	35	290GB22	2	320WB22	6	M34JPS82X	4	M34KCX00X	4	M34KLC23X	4
150CAB22	19	290HB22	2	320YB22	6	M34JPU33X	19	M34KDD00X	4	M34KLC23X	4
150CAB22	22	290KB22	3	320YB22	6	M34JRT05X	4	M34KDD50X	4	M34KLT23X	4
150EUB22	15	310DGB22	2	330AB22	25	M34JRW00X	4	M34KDN11X	4	M34KLU23X	4
151JAR65X	19	310GB22A	6	330AB27	25	M34JRW01X	4	M34KDN21X	4	M34KLV23X	4
160CB22	35	310IB22	2	330AD22	25	M34JRW20X	4	M34KDP10X	4	M34KLV23X	4
160DB227CU2	35	320ACB22	6	330ADB22	38	M34JRW20X	4	M34KDP20	4	M34KLX23X	4
160EB22	19	320ADB22	6	330GB22	25	M34JRW30X	4	M34KDP20	4	M34KML21X	4
160FB22	19	320AEB22	6	330LB22	25	M34JRW33X	4	M34KDC10X	4	M34KNM20X	4
								M34KDU00XX	4	M34KNM22X	4

Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #
M33AAA24A	4	M34JCA03X	4	330SB22	25	370CSB22	2	370HYB22	44		
M33AAA25A	4	M34JCA04X	4	330VB22	25	370CSB22CO1	2	370HZB22	19		
M33AAA26A	4	M34JEL00X	4	330WB22	38	370CVB22	2	370IB22	2		
M33AAA28A	4	M34JEL01X	4	330YB22	25	370DEB22	6	370JB22	6		
M33AAA52X	4	M34JEL10X	4	350CB22	6	370DFB22	2	370JFB22	2		
M33AAW00X	4	M34JEL11X	4	350DB22	6	370DGB22	13	370JKB22	2		
M33AAW46X	4	M34JEL20X	4	360CB22	6	370DHB22	2	370JMB22	19		
M33AAW56X	4	M34JEL21X	4	370AB22	6	370DJB22	2	370JNB22	21		
M33ACD42	4	M34JEL30X	4	370ACB22	6	370DJB22	2	370JNB22	21		
M33ACL00X	4	M34JEL31X	4	370AEB22	6	370DKB22P	2	370JRB22	4		
M33ACL99X	4	M34JEM00X	4	370AFB22	6	370DLB22P	13	370JSB22	4		
M33ACN40X	4	M34JEM20X	4	370AGB22	6	370DMB22	13	370JTB22	6		
M34AEP60X	4	M34JEM21X	4	370AKB22	6	370DNB22	2	370JWB22	2		
M34AEP61X	4	M34JEM30X	4	370ALB22	6	370DRB22	2	370JYB22	4		
M34AFA60X	4	M34JEM31X	4	370AMB22	2	370DSB22	28	370JZB22	4		
M34AFA61X	4	M34JEN20X	4	370ANB22A	13	370DTB22	2	370KAP22	22		
M34AFB60X	4	M34JEN21X	4	370ARB22A	13	370DUB22	2	370KB22	6		
M34AFB61X	4	M34JEN30X	4	370AUB22	13	370DVB22	2	370KGB22	36		
M34AFG71X	4	M34JEN31X	4	370AUB22A	13	370DYB22	6	370KKB22	19		
M34CRA60X	4	M34JEN80X	4	370AUB22Q	13	370DZB22	2	370KLB22	22		
M34CRA70X	4	M34JEP00X	4	370AVB22A	13	370EB22	6	370KMB22	19		
M34CRA71X	4	M34JES01X	4	370AWB22	6	370ECB22	2	370KRB22	19		
M34EAQ00X	4	M34JES09X	4	370AXB22	6	370EFB22	2	370KSB22	19		
M34EAQ10X	4	M34JFA09X	22	370AYB22	6	370EGB22	13	370KTB22	4		
M34JAD04X	4	M34JFD11X	4	370AYB22	6	370EHB22	2	370KUB22	22		
M34JAA04X	4	M34JFE11X	4	370BCB22	6	370EJB22	2	370LAB22	44		
M34JAA05X	44	M34JFG03X	4	370BDB22A	13	370EB22	2	370LB22	6		
M34JAC03X	4	M34JFH00X	4	370BDB22P	13	370ELB22	1	370LEB22	4		
M34JAC12X	2	M34JFM21X	4	370BEB22A	13	370EMB22	1	370LFB22	2		
M34JAC23X	4	M34JFM22X	4	370BEB22P	13	370ERB22	1	370LGB22	19		
M34JAL00X	4	M34JFS01X	4	370BFB22	13	370ESB22	24	370LHB22	19		
M34JAL10X	4	M34JGH00X	4	370BGB22	6	370ETB22	13	370LJB22	4		
M34JAL70X	4	M34JGQ56X	4	370BHB22	6	370FB22	6	370LMB22	44		
M34JAM00X	4	M34JGS11X	4	370BKB22	2	370FCB22	2	370LXB22	19		
M34JAM10X	4	M34JGT10X	4	370BKB22A	2	370FGB22	6	370MB22	6		
M34JAM13X	4	M34JGT60X	4	370BKB22S	2	370FHB22	6	370MCB22	4		
M34JAM60X	4	M34JGT62X	4	370BLB22	2	370FLB22	6	370MDB22	4		
M34JAM70X	4	M34JGT70X	4	370BRB22	6	370FNB22	2	370MEB22	4		
M34JAW01X	4	M34JHS20X	31	370BUB22	6	370FTNB22	2	370MLB22	4		
M34JAW03X	4	M34JHS21X	31	370BVB22	4	370FTB22	2	370MUB22	4		
M34JAW13X	4	M34JHV51X	4	370BVB22	6	370FVB22	2	370MVB22	22		
M34JAW39X	4	M34JHZ01X	4	370BVB22	6	370FYB22	2	370MWB22	4		
M34JAW41XB	4	M34JJA4GR	4	370BVB22	19	370FXB22	2	370MMB22	4		
M34JAW43X	4	M34JJC25X	4	370BYB22	4	370FYB22	6	370MXB22	4		
M34JBF05X	4	M34JJV22X	4	370BZB22	2	370FZB22	6	370MYB22	4		
M34JBF11X	4	M34JKD10X	4	370CB22	2	370GCB22	6	370NAB22	19		
M34JBK00X	4	M34JKD60X	6	370CAB22	2	370GHB22	22	370NB22	4		
M34JBK10X	4	M34JKD70X	4	370CB22	6	370GJB22	2	370NCB22	19		
M34JBK11X	4	M34JKD77X	4	370CFB22	2	370GKB22	4	370NEB22	19		
M34JBL09X	19	M34JKD80X	4	370CGB22	2	370GKB22	4	370NFB22	19		
M34JBL20X	22	M34JKD82X	4	370CGB22	2	370GKB22	4	370NMB22	4		
M34JBL50X	4	M34JKD87X	4	370CHB22	2	370HAB22	19	370NVB22	44		
M34JBL60X	19	M34JKD90X	4	370CKB22	2	370HEB22	6	37ONVB22	19		
M34JBL69X	22	M34JLRS02X	4	370CKB22	2	370HEB22	2	37ONWB22	19		
M34JCA01X	4	M34JLRS03X	4	370CKB22	2	370HFB22	4	37ONXB22	4		
M34JCA03A	4	M34JLS16X	4	370CRB22	2	370HJB22	6	37ORXB22	6		
M34JCA03DF	4	M34JLS39X	4	370CRB22	2	370HKB22	2	37ORDB22	4		
		M34JLS56X	4	370CRB22SA1	2	370HRB22	2	37ORJB22	19		
				370CRB22TCO3	2	370HUB22	2	370RKB22	4		

370S2B22	6	420BDB22	6	420GMB22	4	M29JAD32X	19	M29JHN50X	4	M29JPB81X	4
370SKB22	4	420BEB22	2	420GNB22	19	M29JAL00X	4	M29JHN52A	4	M29JPB90X	4
370TB22	6	420BFB22	13	420GTB22	4	M29JAL01X	4	M29JHN54X	4	M29JPP00X	4
370UNB22	6	420BGB22	2	420GUB22	19	M29JAL10X	4	M29JHN80A	4	M29JPPM71X	4
370VAGB22	10	420BHB22	13	420GWB22	6	M29JAL11X	4	M29JHN80X	4	M29JPPM71X	4
370VAGP22	10	420BJB22	13	420HBB22	4	M29JAL60X	4	M29JHN80DE	4	M29JPR00X	4
370WB22	13	420BLB22	2	420IB22	2	M29JAL61X	4	M29JHN80XB	4	M29JPR60X	4
370YB22	2	420BMB22	13	420JB22	6	M29JAL70X	4	M29JHN81DE	4	M29JQC00X	4
390DRB22	2	420BNB22	2	420KPB22	25	M29JAL71X	4	M29JHN81X	4	M29JQC00X	4
400ACB22	6	420BRB22	2	420LB22	6	M29JAL80X	4	M29JHN91X	4	M29JQU00X	4
400BDB22	6	420BSB22	2	420MB22	6	M29JAL81X	4	M29JHY00X	4	M29JQV00X	4
400RJB22	6	420BTB22	2	420NM22	6	M29JAM01X	4	M29JHY10X	4	M29JTX23X	4
400BLB22	6	420BUB22	2	420R22	6	M29JAM01X	4	M29JHY11X	4	M29JUP23X	4
400BMB22	6	420BVB22	2	420RKB22	2	M29JAM10X	4	M29JHY60X	4	M29JUG23X	4
400BNB22	6	420BWB22	2	420S22	6	M29JAM11X	4	M29JHY70X	4	M29JUR23X	4
400CLB22	6	420BZB22	2	420UB22	1	M29JAM60X	4	M29JHY71X	4	M29KBN81X	4
400CNB22	6	420CBB22	2	420WB22	2	M29JAM61X	4	M29JHY80X	4	M29KDD00X	4
400CUB22	6	420CEB22	2	420YB22	1	M29JAM71X	4	M29JHU60X	4	M29KDR00X	4
400CVB22	6	420CFB22	2	430CB22	5	M29JAP11X	19	M29JU61X	4	M29KDS10X	4
400DAB22	6	420CHB22	2	430DB22	6	M29JAW10X	4	M29JU71X	4	M29KEY00X	4
400DFB22	1	420CSB22	13	430FB22	5	M29JAW11X	4	M29JU70X	4	M29KEE21X	4
400DKB22	6	420CTB22	13	440AJB22	5	M29JAW30X	4	M29JJD60X	4	M29KFL01X	4
400DLB22	6	420CUB22	24	440AKB22	6	M29JAW40X	4	M29JKD70X	4	M29KFL01X	4
400DMB22	6	420CYB22	13	440ALB22A	6	M29JAX60X	4	M29JKB10X	4	M29KFL20X	4
400DNB22	25	420CZB22	2	440ASB22	6	M29JCA00X	4	M29JLB10X	4	M29KFL21X	4
400DWB22	25	420DB22	6	440ASB22A	6	M29JCA30X	4	M29JLB60X	4	M29KFR00X	4
400E2B22	25	420DEB22	2	440AZB22	6	M29JCA40X	4	M29JLB61X	4	M29KFR01X	4
400EFB22	25	420DFB22	2	440AZB22A	6	M29JCA50X	4	M29JLB64X	4	M29KFR30X	4
400EHB22	25	420DGB22	6	440BCB22	6	M29JCA52A	4	M29JLB70X	4	M29KFR31X	4
400J2B22	25	420DIB22	4	440BCB22	6	M29JCA52A	4	M29JLB74X	4	M29KJY00	4
400KB22	5	420DVB22	4	440BDB22	6	M29JEL00X	22	M29JLB94X	4	M29KMN28X	4
400MB22	6	420DZB22	4	440BDB22	6	M29JEL10X	4	M29JLB94X	4	M29KMN36X	4
410AYB22	6	420EB22	6	440BKB22	6	M29JEL20X	4	M29JLX00X	4	M29KNG20X	4
410BRB22	6	420EFB22	6	440BKB22	6	M29JEL21X	4	M29JLX70X	4	M29KNG20X	4
420AB22	2	420ERB22	4	440BKB22	6	M29JEL21X	4	M29JMN81X	4	M29KQC00X	4
420ACB22	6	420ESB22	6	440BNB22	6	M29JGF00X	19	M29JMN82X	4	M29KRC52X	4
420ADB22	6	420ETB22	4	440BNB22	6	M29JGX00X	19	M29JMN97	4	M29KRU52X	4
420AFB22	13	420EWB22	4	440BNB22	6	M29JGX10X	4	M29JNA00X	4	M30JBC10X	25
420AGB22	2	420EXB22	2	440CLB22	6	M29JGX60X	4	M29JNA10X	4	M30JBC15X	25
420AIB22	2	420FAB22	13	470ADB22	15	M29JGX70X	4	M29JNA00DD	4	M30JBC20X	25
420AIB22	6	420FAB22	4	470AFB22	15	M29JGX80X	4	M29JNA80X	4	M30JBD30X	25
420AKB22	6	420FB22	4	470ALB22	13	M29JHJ00X	4	J29JNE00X	4	M30KER10X	4
420ARB22	15	420FJB22	6	470AYB22	2	M29JHM00X	4	M29JNM50X	4	M30KER11X	4
420ASB22	2	420FRB22	2	470BB22	46	M29JHM03X	4	M29JNU50X	4	M30KER20X	4
420ATB22	2	420FSB22	13	470BHB22	6	M29JHM10X	4	M29JNV10X	4	M30KER21X	4
420AUB22	2	420FTB22	19	470BI22	6	M29JHM84A	4	M29JNV62X	4	M30K GK10X	4
420AVB22	2	420FYB22	19	470BLB22	6	M29JHN50A	4	M29JNV83X	4	M30K GK20X	4
420AWB22	2	420GAB22	2	470BMB22	6	M29JHN50A	4	M29JNZ70X	4	M30K GK21X	4
420AZB22	2	420GB22	19	470BRB22	6	M29JHN54X	4	M29JPB00X	4	M30K GK21X	4
420BCB22	2	420GFB22	6	470BSB22	6	M29JHN61X	4	M29JPB33X	4	M30KPF23X	4
	13		4		6	M29JHN64X	4	M29JPB60X	4	M33AAA02A	4
						M29JHN40X	4	M29JPB70X	4	M33AAA22A	4
								M29JPN80X	4	M33AAA22X	4

Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #
E2509	13	E2578	2	4708TB22	6	470YJB22	2	490AMB22	6		
E2510	13	E2579	2	470BUB22	6	470ZJB22	1	490AMB22A	6		
E2511	13	E2581	22	470BVB22	6	470KAB22	2	490ARB22	6		
E2512	13	E2581A	4	470BWB22	6	470KCB22	2	490ASB22	6		
E2513	13	E2582	22	470BWB22	6	470KDB22	2	490ATB22	6		
E2514	13	E2588	2	470BWB22	6	470KGB22	2	490AUB22	6		
E2515	13	E2590	6	470BYB22	6	470KHB22	25	490AVB22	6		
E2516	13	E2592	22	470BZB22	6	470KJB22	2	490AWB22	6		
E2517	13	E2593	2	470CAB22	6	470KLB22	25	490AXB22	6		
E2518	13	E2594	44	470CBN22	6	470KRB22	2	490AYB22	6		
E2519	13	E2595	22	470CDB22	6	470KRB22	13	490AZB22	6		
E2520	13	E2596	22	470CEB22	6	470KVB22	25	490BAB22	6		
E2521	13	E2598	22	470CFB22	6	470KVB22	25	490BBB22	6		
E2522	13	E2599	22	470CJB22	6	470KXB22	2	490BCB22	6		
E2523	13	E2667	6	470CKB22	6	470LAB22	2	490BCB22A	6		
E2524	15	E2724	6	470FDB22	2	470LB22	25	490BCB22B	6		
E2525	15	E2726	6	470FEB22	2	470LGB22	22	490BDB22A	6		
E2526	15	E2861	6	470FGB22	4	470LJB22	22	490BDB22B	6		
E2527	15	E2862	4	470FJB22	4	470LKB22	22	490BDB22C	6		
E2528	15	E2864	4	470FLB22	19	470LKB22	4	490BFB22	6		
E2529	15	E2882	4	470FRB22	25	470LKB22	4	490BFB22A	6		
E2530	15	E2894	13	470FTB22	25	470LVB22	2	490BGB22	6		
E2531	15	E2900	4	470FWB22	25	470LWB22	22	490BHB22	6		
E2532	6	E2908	4	470FXB22	13	470LXB22	2	490BIB22	6		
E2533	15	E2924	4	470GAB22	13	470LXB22	4	490BIB22A	6		
E2534	13	E2940	4	470GCB22	13	470LXB22	2	490BIB22B	6		
E2535	13	E2957	19	470GCB22	13	470LXB22	2	490BIB22C	6		
E2536	13	E2965	19	470GCB22	13	470LXB22	2	490BIB22D	6		
E2537	13	E2970	19	470GEB22	19	470LXB22	2	490BIB22E	6		
E2538	2	E2971	4	470GEB22TCO5	2	470LXB22	2	490BIB22F	6		
E2539	13	E2981	4	470GHB22	15	470LXB22	4	490BIB22G	6		
E2540	2	E2982	4	470GLB22	15	470LXB22	4	490BIB22H	6		
E2541	2	E2982	4	470GMB22	2	470LXB22	4	490BIB22I	6		
E2542	13	E2994	4	470GNB22	2	470LXB22	22	490BIB22J	6		
E2543	15	E2995	4	470GRB22	2	470LXB22	2	490BIB22K	6		
E2544	15	E6121	4	470GVB22	2	470LXB22	6	490BIB22L	6		
E2545	13	E6122	19	470GYB22	2	470LXB22	4	490BIB22M	6		
E2546	13	E6123	19	470GZB22	2	470LXB22	4	490BIB22N	6		
E2547	13	E6135	4	470HAB22	13	470LXB22	19	490BIB22O	6		
E2548	6	E6136	4	470HCB22	13	470LXB22	4	490BIB22P	6		
E2549	2	E8001	4	470HCB22	13	470LXB22	4	490BIB22Q	6		
E2550	2	E8019	4	470HEB22	13	470LXB22	4	490BIB22R	6		
E2551	2	E8028	4	470HFB22	13	470LXB22	4	490BIB22S	6		
E2552	2	E8032	4	470HJB22	13	470LXB22	4	490BIB22T	6		
E2553	13	E8074B22	4	470HLB22	13	470LXB22	46	490BIB22U	6		
E2554	13	E8075	19	470HMB22	2	470LXB22	19	490BIB22V	6		
E2555	2	E8077	4	470HMB22	2	470LXB22	25	490BIB22W	6		
E2556	2	E8089	4	470HMB22	2	470LXB22	6	490BIB22X	6		
E2557	2	E8093B22	4	470HSB22	2	470LXB22	6	490BIB22Y	6		
E2560	2	E8100	19	470HTB22	2	470LXB22	6	490BIB22Z	6		
E2561	13	E8103	4	470HVB22	2	470LXB22	6	490CAB22	6		
E2562	22	E8110	4	470HVB22	2	470LXB22	46	490CAB22A	6		
E2565	2	E8135	4	470HVB22	2	470LXB22	19	490CDB22	6		
E2570	11	E8136	4	470HVB22	2	470LXB22	25	490CEB22	6		
E2574	2	E8139	4	470HVB22	2	470LXB22	6	490CFB22	6		
E2574	13	E8142	4	470HVB22	2	470LXB22	6	490CGB22	6		
E2576	13	E8162	4	470HVB22	2	470LXB22	6	490CGH22	6		
E2577	13	E8183	4	470HVB22	2	470LXB22	6	490CHB22	6		
				470JAB22	13	470LXB22	6	490CJP22	6		
				470JAB22	2	470LXB22	6	490CKB22	6		
				470JAB22	2	470LXB22	6	490CLB22	6		
				470JAB22	2	470LXB22	6	490CMB22	6		
				470JAB22	44	470LXB22	6	490CNB22	6		
				470JAB22	4	470LXB22	6	490CRB22	6		
				470JAB22	4	470LXB22	6	490CSB22	6		
				470JAB22	4	470LXB22	6	490CTB22	6		
				470JAB22	4	470LXB22	6				
				470JAB22	19	470LXB22	6				

Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #
490CUB22	6	510ABWB22	19	510OCB22	6	A68KHZ93	4	A79KJLP70	4	CE551	6		
490CVB22	6	510ABVB22	4	510OCAB22	6	A68KHZ96	4	A79KJT70	4	CE767	6		
490CWB22	6	510ACB22	6	510OCDB22	6	A68KJQ10X	4	A79KJT71X	4	CE782	6		
490CXB22	6	510ACDB22	4	510OCFB22	6	A68KJQ11	4	A79KJT370X	4	CE818	6		
490CCYB22	6	510ACFB22	4	510OCGB22	1	A68KJQ45	4	A80EDB191X	4	CE821	6		
490DAB22	6	510ACGB22	19	510ACXB22	6	A68KJQ111X	4	A80JTS96	4	822	6		
490DAB22A	6	510ACXB22	4	510ACVB22	1	A68KJU96X	4	A80JTS96X	4	CE824	6		
490DB22	6	510ADFB22	4	510ADFB22	1	A68KKN96X	4	A80JYV10X	4	CE844	6		
490DB22A	6	510ADFB22	6	510ADWB22	6	A68KKT96X	4	A80JYV10X	4	CE892	6		
490DCB22	6	510ADWB22	19	510ADXB22	6	A68KLP20X	4	A80KGY96	4	CE917	6		
490DCB22A	6	510ADXB22	4	510AEB22	6	A68KPP20X	4	A80KHJ90X	4	CE954	6		
490DEB22	6	510AEB22	4	510AECB22	4	A68KRQ60X	4	A80KHT90	4	CT1475	2		
490DFB22	6	510AECB22	4	510AFCB22	6	A68KRRT370X	4	A80KJH96	4	CT1494	2		
490DGB22	6	510AFCB22	4	510AFB22	6	A68KSB60X	4	A80KJK96	4	CTA1950	25		
490DHB22	6	510AFB22	4	510AGB22	6	A68KT13X	4	A84KJP70X	4	CTA1951	6		
490DHB22A	6	510AGB22	6	510AHB22	6	A68KT33X	4	A89AET09X	4	CTA2550	6		
490DJB22	6	510AHB22	6	510AJB22	6	A70JYQ96X	4	A89AET10X	61	E2026	6		
490DKB22	6	510AJB22	6	510AKB22	6	A70JYQ97X	4	A89AEX10X	61	E2310	2		
490DLB22	6	510AKB22	6	510ALB22	6	A70KJL96	4	A89AFF10X	61	E2321	13		
490DMB22	6	510ALB22	6	510AMB22	6	A74JVB60X	4	A89JKA31X	61	E2336	6		
490CGH22	6	510AMB22	6	510ANB22	6	A74JVB60X	4	A89JKA61X	61	E2369	6		
490DNB22	6	510ANB22	6	510ARB22	6	A74JVB360X	4	A89JKA81X	61	E2396	15		
490DVB22	6	510ARB22	6	510ASB22	6	A74JVB370X	4	A89JKA91X	61	E2406	13		
490EB22	6	510ASB22	6	510ATB22	6	A74KTK11X	4	A89JVU11X	4	E2407	15		
490EB22A	6	510ATB22	6	510AUB22	6	A74KTK111X	4	A89JVU31X	4	E2418	15		
490FB22	6	510AUB22	6	510AWB22	6	A76JTS90X	4	A89JVU81X	4	E2422	6		
490GB22	6	510AWB22	6	510AXB22	6	A76JTS91X	6	A89JVU81X	4	E2426	15		
490HB22	6	510AXB22	6	510AYB22	6	A76JTS99X	6	A89JVU91X	4	E2427	15		
490JB22	6	510AYB22	6	510AZB22	6	A76JTS99X	15	A89KQ90X	4	E2436	13		
490JB22A	6	510AZB22	6	510AXB22A	6	A76JYQ96X	6	A89KQ96X	4	E2437	15		
490KB22	6	510AXB22A	6	510AYB22	6	A76JYQ97X	6	A89KQF96X	4	E2447	13		
490KB22A	6	510AYB22	6	510AZB22A	6	A76JYQ98X	6	A51575X	2	E2462	13		
490LB22	6	510AZB22A	6	510AAB22	6	A76JZH90X	4	A5493039	14	E2466	13		
490MB22	6	510AAB22	6	510ABB22	6	A76KDT90X	4	AT14A9SRB22	4	E2481	13		
490NB22	6	510ABB22	6	510AB22	6	A76KHJ90X	4	AT120A9RZB22	4	E2482	13		
490RB22	6	510AB22	6	510ABC22	6	A76KJL96X	4	AT20G9	4	E2483	13		
490SB22	6	510ABC22A	6	510BCB22	6	A76KJL98X	4	AT1142	4	E2484	13		
490TB22	6	510BCB22A	6	510BDB22	6	A78JUA25X	4	AT1229B22	4	E2485	2		
490UB22	6	510BDB22	6	510BEB22	6	A78JVB30X	4	AT1231	4	E2486	2		
490VB22	6	510BEB22A	6	510BE22	6	A78JVB60X	4	AT1239B22	4	E2487	13		
490WB22	6	510BE22A	6	510BF22	6	A78JVB61X	4	AT1269	4	E2488	2		
490XB22	6	510BF22	6	510BG22	6	A78JVB63X	4	AT1429	4	E2493	15		
490YB22	6	510BG22	6	510BH22	6	A78JVB70X	4	AT1439	4	E2494	15		
490ZB22	6	510BH22	6	510BG22	6	A78JVB71X	4	AT1459	4	E2495	15		
490ZB22A	6	510BG22	6	510BIB22	6	A78JVB70	4	AT1460	4	E2496	15		
500ELB22	6	510BIB22	6	510BIB22	1	A78JVB561	4	AT1490	4	E2497	15		
510AB22	6	510BIB22	6	510BMB22	6	A78KEH60X	4	AT2029LEB22	4	E2497	15		
510ABAB22	4	510BMB22	6	510BNB22	6	A78KEH70X	4	AT2029ZEB22	4	E2498	13		
510ABC22	2	510BNB22	6	510BRB22	6	A78KEH72X	4	AT2029ZEB22	4	E2499	13		
510ABC22A	2	510BRB22	6	510BVB22	6	A79AELT10X	4	CA639AAX00X	4	E2500	13		
510ABCB22	2	510BVB22	6	510E22	6	A79AELT09X	6	CA639AAX00X	4	E2501	13		
510ABCB22A	2	510E22	6	510EYB22	6	A79AEX25	6	CA639AAX02X	4	E2502	15		
510ABEB22	44	510EYB22	6	510EZB22	2	A79KGS20X	4	CE361M	6	E2503	15		
510ABFB22	44	510EZB22	6	510FB22	6	A79KGS20X	4	CE374	6	E2504	13		
510ABGB22	4	510FB22	6	510FAB22	1	A79KGS70X	4	CE391	6	E2505	6		
510ABHB22	4	510FAB22	6	510FCB22	15	A79KHS370X	4	CE324	6	E2506	13		
510ABMB22	4	510FCB22	6	510FDB22	15	A79KHKT0X	4		6	E2507	2		
510ABNB22	4	510FDB22	6							E2508	13		
510ABVB22	44												

Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #
510SWB22	2	510XVB22	4	560LB22	2	A63-200X	6	A63ABZ06X	4	A64JUK11X	28		
510SYB22	4	510YB22	6	560BMB22	15	A63-210X	6	A63ABZ26X	4	A64JKB00X	28		
510TB22A	6	510TB22A	6	560BRB22	2	A63-220X	6	A63ABZ40X	4	A64JKJ00X	28		
510TDB22	2	510YEB22	4	560BSB22	2	A63A010X	4	A63ABZ60X	4	A64JKJ10X	28		
510TFB22	22	510YSB22\$4	4	560BTB22	2	A63AAD10X	4	A63ACM71X	4	A64JKJ11X	28		
510TGB22	6	510YTB22	4	560BUB22TCO	2	A63AAM00X	4	A63ACM75X	4	A64JKJ1260X	4		
510THB22	6	510YUB22	4	560BVB22	2	A63AAM01X	4	A63ACP00X	4	A64JVI280X	4		
510TLB22	3	510YWB22	19	560BWB22	2	A63AAM01XP	4	A63ACP27X	4	A64JVC60X	4		
510TMB22	2	510YXB22	19	560BX22	6	A63AAM02X	4	A63ACQ00X	4	A64JVC80X	4		
510TNB22	2	510ZB22	6	560BXB22P	11	A63AAM03X	4	A63ACQ01X	4	A64JVC80X	4		
510TRB22	2	510ZDB22	22	560BYB22P	13	A63AAM04X	4	A63ACT00X	4	A64JVI260X	4		
510TSB22	4	510ZEB22	4	560BZB22	2	A63AAM05X	4	A63ADG25X	4	A64JVC11X	4		
510TUB22	4	510ZTB22	22	560CAB22P	16	A63AAM06X	4	A63ADG27X	4	A64KDC11X	4		
510TXB22	22	520-257-022	6	560CDB22	6	A63AAM07X	4	A63ADG35X	4	A64KFZ11X	4		
510UB22	6	520EB22	6	560CDB22	16	A63AAM08X	4	A63ADN26X	4	A64KFZ95X	4		
510UB22A	6	520FXB22	2	560CFB22	2	A63AAM09X	4	A63ADN40X	4	A65-120X	6		
510UBT22	4	520HXB22	28	560CGB22	2	A63AAM10X	4	A63ADT10	4	A65-140X	6		
510UCB22	4	520KXB22	25	560CHB22	2	A63AAM11X	4	A63ADT26	4	A66-120X	6		
510UDB22	4	520KTB22	25	560CLB22TCO	2	A63AAM12X	4	A63AEH20X	4	A66-140X	6		
510UEB22	4	520NKB22	25	560CMB22	2	A63AAM13X	4	A63AFC20X	4	A66-410X	6		
510UEB22	4	520NRB22	25	560CNB22	2	A63AAM10X	4	A63AGG25X	4	A66-500X	6		
510UFB22	4	520RFB22	31	560CSB22	2	A63AAO10X	4	A63EAB00X	4	A66-501X	11		
510UGB22	2	520SFB22	31	560CWB22	2	A63AAT30X	4	A63JAV00X	4	A66-510X	11		
510UJB22	4	520UB22	6	560CXB22	11	A63AAT31X	4	A63JBG00X	4	A66-540X	11		
510USB22	2	520XKB22	31	560CXB22	2	A63AAT32X	4	A63JBG20X	4	A66AAM00X	4		
510UTB22	4	537-554X	2	560CZB22	2	A63AA136X	4	A63JBG50X	4	A66AAM01X	4		
510UWB22	44	550AAB22	6	560DAB22	6	A63AA136X	4	A63JBG80X	4	A66AAM02X	4		
510UXB22	2	550CB22	6	560DHB22	4	A63AAX01X	4	A63JBG82X	4	A66AAM03X	4		
510VAB22	4	550EB22	6	560DIB22	2	A63AAX12X	4	A63JDC05X	22	A66AAM04X	4		
510VAB22	4	550FB22	6	560DIB22	4	A63AAX22X	4	A63JDF00X	4	A66AAX42X	4		
510VB22	6	560AB22	1	560DLB22	4	A63AAV71X	3	A63JDF91X	4	A66ABU00X	4		
510VB22A	6	560ACB22	2	560DLB22	4	A63AAV71X	3	A63JDF20X	19	A66ABU05X	4		
510VCB22	6	560ADB22	15	560DSB22	4	A63AAV02X	3	A63JDP35X	19	A66ABU10X	4		
510VEB22	4	560AEB22	15	560DUB22	4	A63AAV11X	3	A63JDP36X	19	A66ABU11X	4		
510VJB22	4	560AFB22	6	560DVB22	6	A63AAY12X	3	A63JDP37X	19	A66ABU14X	4		
510VSB22	4	560AGB22	2	560DYB22	6	A63AAY12X	3	A63JEC00X	4	A66ABU30X	4		
510VWB22	4	560AKB22P	2	560EB22	1	A63ABE27X	4	A63JEC30X	4	A66ABU32X	4		
510VWB22	4	560ALB22	15	560EGB22	4	A63ABE27X	4	A63JEC30X	4	A66ABU35X	4		
510VZB22	2	560AMB22	2	560EMB22	22	A63ABF00X	14	A63JIEZ00X	4	A66ABU36X	4		
510WAB22	6	560ANB22	2	560EZB22	11	A63ABG05X	4	A63JGB50X	4	A66ABU37X	4		
510WB22	6	560ARB22	5	560FUB22	4	A63ABG20X	4	A63JGC01X	4	A66ABU38X	4		
510WB22A	6	560ASB22	6	560FVB22	2	A63ABG25X	4	A63JGC11X	4	A66ABU39X	4		
510WEB22	6	560ATB22	6	560GDB22	19	A63ABG27X	4	A63JGY33X	4	A66ABU40X	4		
510WHB22	4	560AUB22	2	560HDB22	4	A63ABG35X	4	A63JGY93X	4	A66ABU50X	4		
510WLB22	4	560AVB22	2	560HJB22P	15	A63ABL15X	4	A63JHF01X	4	A66ABU51X	4		
510WLB22	4	560AVB22	13	560IB22	15	A63ABL15X	4	A63JHF80X	4	A66ABU52X	4		
510WNB22	2	560AWB22	6	560KB22	6	A63ABP00X	4	A63JHF81X	4	A66ABU55X	4		
510WVVB22	4	560AXB22	2	560LB22	1	A63ABP05X	4	A63JHC00X	4	A66ABU56X	4		
510WB22	2	560AYB22TCO	15	560MB22	6	A63ABP10X	4	A63JLQ90X	4	A66ADQ00X	4		
510XB22A	6	560BAB22	6	560NB22	6	A63ABP11X	4	A63JPD00X	19	A66ADQ00X	4		
510XB22A	6	560BCB22	13	560RB22	6	A63ABP12X	4	A63JPD35X	19	A66ADQ01X	4		
510XDB22	4	560BEB22	15	560SB22	15	A63ABP13X	4	A63JPD35X	19	A66ADQ02X	4		
510XJB22	4	560BEB22	15	560TB22	15	A63ABP20X	4	A63JPW40X	19	A66ADQ03X	4		
510XNB22	4	560FB22	15	560UB22	15	A63ABP25X	4	A63JWJ00X	4	A66ADQ03X	4		
510XRB22	44	560GGB22P	15	560VB22	15	A63ABP26X	4	A63JWJ10X	4	A66ADQ03X	4		
510XS922	44	560HJB22P	15	560XCB22	6	A63ABP50X	4	A63JXQ83X	4	A66ADQ03X	4		
510XTB22	4	560RJB22	13	560XCB22	11	A63ABP51X	4	A63JXQ85X	4	A66ADT16X	4		
510XUB22	2	560RKB22	2	560ZB22	2	A63ABP55X	4	A63JXX91X	4	A66ADT18X	4		

Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type
4	A48KLQ23X	4	A51-420X	4	A34JGZ32	19	A34KFC12X	19	A37-161X	6	A37-161X
19	A48KMW02X	2	A51-421X	4	A34JHS10X	28	A34KFC42X	19	A37-420X	4	A37-420X
19	A48KMW12X	4	A51-422X	4	A34JKG00X	19	A34KFC47X	19	A37-471X	19	A37-471X
19	A48KMX02X	4	A51-423X	4	A34JKG60X	19	A34KFC60X	19	A37-550X	2	A37-550X
19	A48KMX12X	4	A51-424X	4	A34JKH00X	19	A34KFC70X	19	A37-552X	2	A37-552X
19	A48KMY12X	4	A51-425X	4	A34JKH30X	18	A34KPU42X	19	A37-554X	2	A37-554X
19	A48KRC81X	4	A51-426X	4	A34JLL20X	19	A34KQR60X	19	A37-570X	2	A37-570X
19	A48KRD82X	4	A51-427X	4	A34JLL70X	19	A34KQV42X	19	A37-573X	19	A37-573X
31	A49JHT00X	19	A51-469X	19	A34JLL73X	19	A34KQW42X	19	A37-590X	4	A37-590X
31	A49JHT70X	11	A51-500X	19	A34JPU60X	19	A34KQX41X	19	A37-591	4	A37-591
49	A49JLB50X	11	A51-510X	11	A34JQR00X	19	A34KQY42X	19	A37-598X	4	A37-598X
49	A49JLV50X	11	A51-540X	11	A34JQR00X	4	A35JCD05X	19	A37-599X	4	A37-599X
4	A49-10X	2	A51-550X	2	A34JQR00X	19	A36ACG10X	4	A37JUW10X	65	A37JUW10X
4	A49-11X	6	A51-556X	2	A34JRD90X	19	A36AE01X	19	A38-11X	6	A38-11X
19	A49-12X	6	A51-570X	2	A34JRH61X	19	A36EAM00X	19	A38-12X	6	A38-12X
19	A49-14X	6	A51-572X	2	A34JRJ60X	19	A36EBH01X	19	A38AAB10X	4	A38AAB10X
4	A49-15X	6	A51-580X	4	A34JRP00X	4	A36JAR39X	19	A38ABE60X	4	A38ABE60X
6	A49-16X	6	A51-590X	4	A34JRS01X	19	A36JAR40X	19	A38ABE61X	4	A38ABE61X
6	A49-17X	2	A51575X	2	A34JRY00X	19	A36JAR10X	19	A38ABE62X	4	A38ABE62X
6	A49-18X	6	A51ABU10X	6	A34JRY01X	19	A36JAR30X	19	A38ABE63X	4	A38ABE63X
6	A49-120X	4	A51ABU14X	4	A34JRY04X	19	A36JAR32X	19	A38ABE67X	4	A38ABE67X
6	A49-190X	6	A51ABU25X	4	A34JRY21X	19	A36JAR39X	19	A38ABL30X	4	A38ABL30X
6	A49-191X	6	A51ABU51X	4	A34JRY24X	19	A36JAR40X	19	A38ABW60X	4	A38ABW60X
6	A49-192X	6	A51ABU55X	4	A34JSG03X	19	A36JAR50X	19	A38ABW61X	2	A38ABW61X
6	A49-193X	6	A51ACB02X	4	A34JTB00X	22	A36JAR50X	19	A38ABW62X	2	A38ABW62X
6	A49-200X	6	A51ACB12X	4	A34JTJ00X	4	A36JAR53X	19	A38ACF60X	4	A38ACF60X
6	A49-220X	6	A51ACG10X	4	A34JTJ20X	4	A36JAR80X	19	A38EAC00X	4	A38EAC00X
31	A49JHT00X	31	A51ACG10X	4	A34JTJ21X	19	A36JAR83X	19	A38EAC01X	19	A38EAC01X
24	A49JHT70X	24	A51ACG20X	4	A34JTM90X	2	A36JAR90X	19	A38EAC50X	19	A38EAC50X
31	A49JLB50X	31	A51ACG25X	4	A34JTR60X	19	A36JAR91X	19	A38EAP00X	19	A38EAP00X
49	A49JLV50X	49	A51ACG26X	4	A34JTR62X	19	A36JAR93X	19	A38EAP00X	19	A38EAP00X
6	A51-110X	6	A51ACG27X	4	A34JTR80X	19	A36JFT00X	19	A38EJAH23X	4	A38EJAH23X
4	A51-111X	6	A51ACG30X	4	A34JUG40X	19	A36JFT30X	19	A38JAH40X	4	A38JAH40X
6	A51-112X	6	A51ACG31X	4	A34JVC00X	19	A36JFT60X	19	A38JAK70X	22	A38JAK70X
19	A51-150X	2	A51AGC33X	4	A34JWH05X	4	A36JHP00X	19	A38JAN30X	19	A38JAN30X
19	A51-152X	2	A51AGC50X	4	A34JWH15X	4	A36JHP30X	19	A38JAN40X	19	A38JAN40X
2	A51-161X	4	A51AGC51X	4	A34JWL00X	4	A36JHP90X	19	A38JAN80X	19	A38JAN80X
2	A51-162X	2	A51AGC55X	4	A34JWL40X	4	A36JIG01X	19	A38JAN81X	19	A38JAN81X
4	A51-163X	2	A51AGC65X	4	A34JWL60X	4	A36JIM00X	19	A38JAN82X	19	A38JAN82X
4	A51-168X	2	A51ACT00X	4	A34JWV60X	2	A36JIM01X	19	A38JAN91X	19	A38JAN91X
4	A51-170X	6	A51ACT26X	4	A34JXV11X	19	A36JIM60X	19	A38JAR50X03	19	A38JAR50X03
6	A51-180X	6	A51ADL00X	4	A34JXV61X	19	A36JIM60X	19	A38JBH05X	19	A38JBH05X
2	A51-190X	2	A51ADM20X	4	A34KAD00X	19	A36JIM61X	19	A38JBH36X	19	A38JBH36X
2	A51-191X	4	A51ADM25X	4	A34KAD01X	19	A36JJR01X	19	A38JBH60X	19	A38JBH60X
2	A51-210X	4	A51ADM35X	4	A34KCK04X	19	A36JJR03X	19	A38JBN90X	22	A38JBN90X
2	A51-211X	2	A51ADR26X	4	A34KCK04X	19	A36JNS00X	19	A38JCD05X	19	A38JCD05X
13	A51-213X	13	A51ADR40X	4	A34KCL04X	19	A36JPA30X	19	A38JCD95X	19	A38JCD95X
13	A51-214X	2	A51ADU96X	4	A34KCM00X	4	A36JSW20X	19	A38JDB36X	19	A38JDB36X
6	A51-220X	6	A51ADU115X	4	A34KCP12X	2	A36JSW70X	19	A38JFHO0X	19	A38JFHO0X
2	A51-230X	2	A51ADU116X	4	A34KCP22X	4	A36JUF00X	19	A38JFH00X	19	A38JFH00X
2	A51-231X	4	A51ADY00X	4	A34KCC12X	4	A36JUF60X	19	A38JFH30X	19	A38JFH30X
4	A51-232X	4	A51ADY01X	19	A34KCS05X	4	A36KDL02X	19	A38JFH90X	19	A38JFH90X
2	A51-263X	2	A51ADY02X	19	A34KCS24X	4	A36KDL07X	19	A38JGH90X	19	A38JGH90X
4	A51-268X	4	A51ADZ00	19	A34KFC00XX	19	A38JLL20X	19	A38JJB90X	2	A38JJB90X
2	A51-270X	4	A51AEZ10X	19	A34KFC02XX	19	A38JLL70X	19	A38JLL20X	19	A38JLL20X
11	A51-400X	11	A51AEZ50X	4	A34KFC07XX	19	A38JMW20X	19	A38JMW20X	2	A38JMW20X
4	A51AEZ51X	4	A51AEZ51X	4	A34KFC08X	19	A38JMW70X	19	A38JMW70X	2	A38JMW70X

Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #
A24JHS10X	28	A33ADU76X	4	A34JLDZ00X	19	A51AGC14X	4	A51JCC30X	4	A51JRX60X	19		
A26JAS01X	21	A33ADU92X	4	A34JEBB60X	19	A21AGC21X	4	A51JCC31X	4	A51JVS11X	4		
A26JAS30X	21	A33ADU93X	4	A34JEP00X	4	A51AGC30X	4	A51JCC33X	4	A51JVS20X	19		
A26JAS31X	35	A33ADU95X	4	A34JFND02X	19	A51AGC50X	4	A51JCC51X	4	A51JUSW70X	19		
A26JGZ01X	19	A33ADU96X	4	A34JF031X	19	A51AGC65X	4	A51JCC61X	4	A51JUSX01X	19		
A26JGZ03X	19	A33JL00X	4	A34JFQ40X	19	A51AGC66X	4	A51JCC80X	4	A51JUSX61X	19		
A26JGZ31X	19	A33JKL60X	4	A34JFQ41X	19	A51EAF00X	4	A51JCC81X	4	A51JUSY01X	4		
A26JGZ91X	19	A33KLR00X	4	A34JFQ42X	19	A51EAF01X	4	A51JCC91X	4	A51JUSY61X	19		
A26JGZ93X	19	A33KL00X	4	A34JFQ90X	19	A51EAS00X	4	A51JCC99X	4	A51JUSY63X	4		
A26JGZ95X	19	A34EQ12X	4	A34JFY00X	19	A51EAS02X	4	A51JEW00X	22	A51JUSY69X	4		
A26JGZ99X	21	A34EAC00X	9	A34JFY50X	19	A51EAT00X	4	A51JFC00X	4	A51JUT60X	4		
A27KGC10X	19	A34EAC05X	19	A34JFY80X	19	A51EAT01X	4	A51JFC01X	4	A51JUH10X	49		
A29JAC00X	4	A34EAE00X	19	A34JFY83X	19	A51EAT02X	4	A51JFC09X	4	A51JUH50X	49		
A29JAD00X	19	A34EAE01X	19	A34JFY90X	19	A51EBD00X	19	A51JFC30X	4	A51JUH60X	53		
A29JBP00X	2	A34EAP00X	4	A34JGZ32X	19	A51EBD10X	4	A51JFC60X	4	A51JUL91X	19		
A29JUN60X	19	A34EAP00X	19	A34JHP90X	19	A51EBS00X	4	A51JFC62X	4	A51JUL91X	19		
A33AAB03X	2	A34JAE00X	19	A34JHS10X	31	A51EBS10X	4	A51JFC68X	4	A51JV911X	19		
A33AAB10X	4	A34JAE10X	19	A34JHS12X	31	A51EBS20X	4	A51JFC89X	4	A51JV911X	19		
A33AAB15X	4	A34JAN00X	4	A34JHS15X	28	A51EBS30X	4	A51JFC89X	4	A51JV960X	49		
A33AAB16X	4	A34JAU01X	19	A34JIB92X	2	A51EBU10	4	A51JFE00X	4	A51JYH60X	19		
A33AAB20X	4	A34JAN00X	19	A34JJB00X	4	A51EBV00X	4	A51JFE01X	4	A51JXS91X	4		
A33AAB30X	4	A34JAN30X	19	A34JLH60X	4	A51JAR00X	19	A51JFE60X	4	A51JXS95X	4		
A33AAB35X	4	A34JAN31X	19	A34JUL20X	19	A51JAR03X	19	A51JFE61X	4	A51JXS97X	4		
A33AAB36X	4	A34JAN32X	19	A34JUL40X	19	A51JAR10X	19	A51JFE62X	4	A51JXS98X	4		
A33AAF00X	2	A34JAN40X	19	A34JUL59X	19	A51JAR10X	19	A51JL00X	4	A51JYR10X	19		
A33AAL01X	2	A34JAN42X	19	A34JUL70X	19	A51JAR30X	19	A51JL00X	4	A51JZE23X	4		
A33AAL03X	2	A34JAN51X	19	A34JL70X	19	A51JAR31X	19	A51JL30X	4	A51JZD23X	4		
A33AAL20X	4	A34JAN80X	19	A34JL80X	19	A51JAR34X	19	A51JL99X	4	A51KAK02XX	4		
A33AAAS40X	2	A34JAN90X	19	A34JL93X	19	A51JAR35X	19	A51JL99X	4	A51KAK07X	4		
A33AAAS50X	2	A34JAN92X	19	A34JLL0X	19	A51JAR40X	19	A51JKQ00X	48	A51KAK12X	4		
A33AABD00X	18	A34JAN99X	19	A34JLL20X	19	A51JAR43X	19	A51JKQ10X	48	A51KAK17X	4		
A33AABD11X	18	A34JAP00X	19	A34JLL40X	19	A51JAR44X	19	A51JKQ10X	4	A51KAK17X	4		
A33AABE60X	4	A34JBB00X	19	A34JLL59X	19	A51JAR45X	19	A51JL62X	4	A51KAS10X	4		
A33AABE61X	4	A34JBB02X	19	A34JLL70X	19	A51JAR50X	19	A51JL62X	4	A51KAS11X	4		
A33AABE67X	4	A34JBB60X	19	A34JLL73X	19	A51JAR59X	19	A51JKY94X	4	A51KAS11X	4		
A33AABL20X	4	A34JLH30X	19	A34JLL90X	19	A51JAR61X	19	A51JL11X	19	A51KAS61X	4		
A33AABL30X	4	A34JLH30X	19	A34JLN93X	19	A51JAR62X	19	A51JL11X	19	A51KAS81X	4		
A33AABM26X	4	A34JLH80X	19	A34JLN61X	19	A51JAR65X	19	A51JL31X	4	A51KAT11X	4		
A33AABW60X	2	A34JLH99X	19	A34JMW20X	2	A51JAR66X	19	A51JL31X	4	A51KDJ02X	4		
A33AABW62X	2	A34JLH99X	19	A34JNNW70X	2	A51JAR67X	19	A51JL31X	4	A51KEEF60X	19		
A33ACAC00X	4	A34JBC00X	2	A34JNN60X	4	A51JAR83X	19	A51JL31X	4	A51KEQ90X	4		
A33ACACB00X	4	A34JBU10X	31	A34JPP60X	19	A51JAR90X	19	A51JL31X	4	A51KES91X	4		
A33ACB07X	4	A34JCD00X	19	A34JQC00X	19	A51JAR91X	19	A51JL31X	4	A51KES91X	19		
A33ACB02X	4	A34JCD00X	19	A34JQR00X	19	A51JAR92X	19	A51JL31X	4	A51KGM93X	19		
A33ACB51X	4	A34JCD04X	19	A34JQR00X	4	A51JAR93X	19	A51JL31X	4	A51KGP93X	19		
A33ACD02X	4	A34JCD05X	19	A34JRD20X	4	A51JAR95X	19	A51JL31X	4	A51KHA90	19		
A33ACD25X	4	A34JCD24X	19	A34JRD30X	19	A51JAR96X	19	A51JL31X	4	A51KJL61	4		
A33ACD30X	4	A34JCD30X	19	A34JRD90X	19	A51JAR98X	19	A51JL31X	4	A51KJL80	4		
A33ACF60X	2	A34JCD31X	19	A34JRH01X	19	A51JAR99X	19	A51JL31X	4	A51KJN61	4		
A33ACF90X	19	A34JCD90X	19	A34JRH61X	19	A51JCC01X	4	A51JL31X	4	A51KJN61	19		
A33ACF01X	19	A34JCD91X	19	A34JRH61X	19	A51JCC02X	4	A51JL31X	4	A51KJN61	19		
A33ADU00X	4	A34JCS05X	19	A34JRH61X	19	A51JCC03X	4	A51JL31X	4	A51KJN61	19		
A33ADU65X	4	A34JCS05X	4	A34JRS01X	19	A51JCC09X	4	A51JL31X	4	A51KJN61	19		
A33ADU66X	4	A34JDD30X	19	A34JRS12X	19	A51JCC11X	4	A51JL31X	4	A51KND93X	19		
A33ADU75X	4			A34JRY00X	19	A51JCC21X	4	A51JL31X	4	A51KNK93X	19		
						A51JCC23X	4	A51JL31X	4	A51KPD02X	4		
										A51KPD12X	4		

Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type
4	A48JQA60X	4	A51-420X	4	A34JGZ32	19	A34KFC12X	19	A37-161X	6	A37-161X				
19	A48JQG50X	2	A51-421X	4	A34JHS10X	28	A34KFC42X	19	A37-420X	4	A37-420X				
19	A48JQW12X	2	A51-422X	4	A34JKG00X	19	A34KFC47X	19	A37-471X	19	A37-471X				
19	A48JQX02X	4	A51-423X	4	A34JKG60X	19	A34KFC60X	19	A37-550X	2	A37-550X				
19	A48JQX12X	4	A51-424X	4	A34JKH00X	19	A34KFC70X	19	A37-552X	2	A37-552X				
19	A48JQX12X	4	A51-425X	4	A34JKH30X	18	A34KPU42X	19	A37-554X	2	A37-554X				
19	A48JQX81X	2	A51-426X	4	A34JLL20X	19	A34KQR60X	19	A37-570X	2	A37-570X				
19	A48KRD82X	4	A51-427X	4	A34JLL70X	19	A34KQV42X	19	A37-573	19	A37-573				
19	A49JHT00X	31	A51-469X	19	A34JLL73X	19	A34KQW42X	19	A37-590X	4	A37-590X				
19	A49JHT70X	31	A51-500X	11	A34JPU60X	19	A34KQX41X	19	A37-591	4	A37-591				
19	A49JLB50X	49	A51-510X	11	A34JQ00X	19	A34KQY42X	19	A37-598X	4	A37-598X				
19	A49JLV50X	49	A51-540X	11	A34JQR00X	4	A35JCD05X	19	A37-599X	4	A37-599X				
4	A49-10X	6	A51-550X	2	A34JQR00X	19	A38ACG10X	4	A37JUW10X	65	A37JUW10X				
4	A49-11X	6	A51-556X	2	A34JRD90X	19	A36EAE01X	19	A38-11X	6	A38-11X				
19	A49-12X	6	A51-570X	2	A34JRH61X	19	A36EAM00X	19	A38-12X	6	A38-12X				
19	A49-12X	6	A51-572X	2	A34JRH61X	19	A36EBH01X	19	A38AAB10X	4	A38AAB10X				
4	A49-14X	6	A51-572X	2	A34JRH61X	19	A36EAM00X	19	A38ABE60X	4	A38ABE60X				
4	A49-15X	6	A51-580X	2	A34JRP00X	4	A36JAR00X	19	A38ABE61X	4	A38ABE61X				
4	A49-16X	6	A51-580X	2	A34JRP00X	19	A36JAR01X	19	A38ABE62X	4	A38ABE62X				
19	A49-17X	6	A51-590X	2	A34JRS01X	19	A36JAR10X	19	A38ABE66X	4	A38ABE66X				
4	A49-17X	6	A51-575X	2	A34JRY00X	19	A36JAR10X	19	A38ABE67X	4	A38ABE67X				
4	A49-18X	6	A51ABU10X	4	A34JRY01X	19	A36JAR30X	19	A38ABL30X	4	A38ABL30X				
4	A49-18X	6	A51ABU14X	4	A34JRY04X	19	A36JAR32X	19	A38ABW60X	2	A38ABW60X				
4	A49-120X	6	A51ABU25X	4	A34JRY21X	19	A36JAR39X	19	A38ABW61X	2	A38ABW61X				
4	A49-190X	6	A51ABU51X	4	A34JRY24X	19	A36JAR40X	19	A38ABW62X	2	A38ABW62X				
2	A49-191X	6	A51ABU55X	4	A34JSG03X	19	A36JAR50X	19	A38ACF60X	4	A38ACF60X				
2	A49-192X	6	A51ACB02X	4	A34JTB00X	22	A36JAR50X01	19	A38EAC00X	19	A38EAC00X				
4	A49-193X	6	A51ACB12X	4	A34JTJ00X	4	A36JAR60X	19	A38EAC01X	19	A38EAC01X				
4	A49-200X	6	A51ACB12X	4	A34JTJ20X	4	A36JAR80X	19	A38EAC50X	19	A38EAC50X				
4	A49-220X	6	A51ACG10X	4	A34JTJ21X	19	A36JAR80X	19	A38EAP00X	4	A38EAP00X				
4	A49-220X	6	A51ACG10X	4	A34JTJ21X	19	A36JAR90X	19	A38IAH23X	4	A38IAH23X				
4	A49JHT00X	31	A51ACG20X	4	A34JTM90X	2	A36JAR90X	19	A38IAH40X	4	A38IAH40X				
4	A49JHT70X	24	A51ACG25X	4	A34JTR60X	19	A36JAR91X	19	A38JAK70X	19	A38JAK70X				
4	A49JLB50X	31	A51ACG26X	4	A34JTR62X	19	A36JFT00X	19	A38JAN30X	19	A38JAN30X				
19	A49JLV50X	49	A51ACG27X	4	A34JTR80X	19	A36JFT30X	19	A38JAN40X	19	A38JAN40X				
4	A51-110X	6	A51ACG30X	4	A34JUG00X	19	A36JFT60X	19	A38JAN80X	19	A38JAN80X				
4	A51-111X	6	A51ACG30X	4	A34JUG40X	19	A36JHP00X	19	A38JAN81X	19	A38JAN81X				
19	A51-112X	6	A51ACG31X	4	A34JVC00X	4	A36JHP00X	19	A38JAN82X	19	A38JAN82X				
19	A51-150X	2	A51AGC33X	4	A34JWH05X	4	A36JHP30X	19	A38JAN91X	19	A38JAN91X				
19	A51-152X	2	A51AGC50X	4	A34JWH15X	4	A36JIM01X	19	A38JAR50X03	19	A38JAR50X03				
2	A51-161X	2	A51AGC51X	4	A34JWL00X	4	A36JIM01X	19	A38JBH05X	19	A38JBH05X				
2	A51-162X	2	A51AGC55X	4	A34JWL40X	4	A36JIM01X	19	A38JBH36X	19	A38JBH36X				
2	A51-163X	2	A51AGC65X	4	A34JWV60X	4	A36JIM60X	19	A38JBN90X	19	A38JBN90X				
4	A51-168X	2	A51ACT00X	4	A34JXV11X	2	A36JIM60X	19	A38JCD05X	19	A38JCD05X				
4	A51-170X	2	A51ACT26X	4	A34JXV61X	19	A36JIM61X	19	A38JCD95X	19	A38JCD95X				
4	A51-180X	6	A51ADL00X	4	A34KAD00X	19	A36JIM61X	19	A38JDB36X	4	A38JDB36X				
4	A51-190X	2	A51ADM20X	4	A34KAD01X	19	A36JIM61X	19	A38JEY00X	19	A38JEY00X				
4	A51-191X	2	A51ADM25X	4	A34KAD01X	19	A36JIM61X	19	A38JFH00X	19	A38JFH00X				
4	A51-191X	2	A51ADM35X	4	A34KCK04X	19	A36JIM61X	19	A38JFH30X	19	A38JFH30X				
19	A51-210X	2	A51ADR26X	4	A34KCK04X	19	A36JIM61X	19	A38JFY05X	19	A38JFY05X				
4	A51-211X	2	A51ADR40X	4	A34KCKL04X	19	A36JIM61X	19	A38JGH90X	19	A38JGH90X				
4	A51-213X	2	A51ADU95X	4	A34KCM00X	4	A36JIM61X	19	A38JJB90X	2	A38JJB90X				
13	A51-214X	13	A51ADU96X	4	A34KCP02XX	2	A36JIM61X	19	A38JLL20X	19	A38JLL20X				
13	A51-214X	13	A51ADU96X	4	A34KCP12X	2	A36JIM61X	19	A38JLL70X	19	A38JLL70X				
6	A51-220X	6	A51ADU115X	4	A34KCP12X	2	A36JIM61X	19	A38JMW20X	2	A38JMW20X				
2	A51-230X	2	A51ADU116X	4	A34KCCQ12X	4	A36JIM61X	19	A38JMW70X	19	A38JMW70X				
4	A51-231X	4	A51ADY00X	19	A34KCCQ12X	4	A36JIM61X	19	A38JW20X	4	A38JW20X				
4	A51-232X	4	A51ADY01X	19	A34KCS05X	19	A36JIM61X	19	A38JW70X	19	A38JW70X				
2	A51-263X	2	A51ADY02X	19	A34KCCZ24X	19	A36JIM61X	19	A38JW70X	19	A38JW70X				
4	A51-268X	4	A51ADZ00	19	A34KFC00XX	19	A36JIM61X	19	A38JW70X	19	A38JW70X				
2	A51-270X	2	A51AEZ10X	4	A34KFC02XX	19	A36JIM61X	19	A38JW70X	19	A38JW70X				
11	A51-400X	11	A51AEZ50X	4	A34KFC08X	19	A36JIM61X	19	A38JW70X	19	A38JW70X				
4		4	A51AEZ51X	4	A34KFC10XX	19	A36JIM61X	19	A38JW70X	19	A38JW70X				

Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #	Tube Type	Chart #
A38JRD30X	19	A43JAN40X	19	A44-270X	6	A47-343X	6	A48ABT03X	4
A38JRL00X	4	A43JAN43X	19	A44-271W	6	A47-500X	11	A48ABT745X	4
A38JSM00X	4	A43JAN44	19	A44-272X	6	A47-550X	2	-A48ABT51X	4
A38JSM03X	4	A43JAN90X	19	A44-7341X	6	A47-552X	2	A48ABT52X	4
A38JSM23X	4	A43JAN93X	19	A44JF210X	31	A47-555X	2	A48ABW20X	2
A38JTM90X	2	A43JAY00X	4	A44JFU00X	25	A48AAB00X	4	A48ABW25X	2
A38JWA00X	4	A43JAY02X	4	A44JFZ10X	13	A48AAB10X	4	A48ABY00X	2
A38JWA30X	4	A43JBE50X	4	A44JFZ00X	31	A48AAB20X	4	A48ABY00X	2
A38JXL00X	4	A43JBT01X	4	A46JAR00X	19	A48AAB22X	4	A48ACB01X	4
A38JYA30X	19	A43JCD01X	19	A46JAR33X	19	A48AAB21X	4	A48ACB02X	4
A38KAE30X	19	A43JCD05X	19	A46JAR40X	19	A48AAB26X	4	A48ACB12X	4
A38KAE40X	19	A43JCD07X	19	A46JAR43X	19	A48AAB27X	4	A48ACB32X	4
A38KDE02X	2	A43JCD08X	19	A46JAR44X	19	A48AAB30X	4	A48ACB52X	4
A38KDE12X	4	A43JCE01X	19	A46JAR45X	19	A48AAB35X	4	A48ACD30X	4
A38KDF02X	4	A43JCE05X	19	A46JAR50X	19	A48AAB50X	4	A48ACD35X	4
A38KDF12X	4	A43JCE10X	19	A46JAR60X	19	A48AAB60X	4	A48ACE26X	4
A38KQZ51X	2	A43JCT02X	4	A46JAR61X	19	A48AAD10X	4	A48ACE40X	4
A38KRA53X	4	A43JDK00X	4	A46JAR62X	19	A48AAAG01X	4	A48ADDE01X	19
A41JAR00X	19	A43JDK20X	4	A46JAR63X	19	A48AAAG02X	4	A48ADDE22X	19
A41JAR10X	19	A43JDS00X	22	A46JAR66X	19	A48AAAJ39X	4	A48ADDF00	19
A41JAR10X	19	A43JEL00X	19	A46JAR67X	19	A48AAAJ00X	4	A48ADU55X	4
A41JAR40X	19	A43JEF00X	4	A46JAR68X	19	A48AAK03X	4	A48ADU56X	4
A41JAR41X	19	A43JG201X	4	A46JAR69X	19	A48AAK04X	4	A48ADU615X	4
A41JAR43X	19	A43JGZ01X	4	A46JAR70X	19	A48AAK05X	4	A48ADU616X	4
A41JAR50X	19	A43JLL20X	19	A46JDL00X	19	A48AAK06X	4	A48AEY10X	19
A41JAR65X	19	A43JLL70X	19	A46JDL10X	19	A48AAK09X	4	A48AEY50X	19
A41JHP00X	19	A43JL190X	19	A46JDL30X	19	A48AAN02X	4	A48EAB00X	4
A41JHP90X	19	A43JLP06X	4	A46JDL60X	19	A48AAN03X	4	A48EAB01X	4
A41JHR00X	4	A43JQF00X	19	A46JDL61X	19	A48AAN04X	4	A48EAC00X	19
A41JHR90X	4	A43QS00X	4	A46JED60X	19	A48AAR00X	4	A48EAP00X	19
A42-100X	2	A43JRE00X	2	A46JH100X	19	A48AAR21X	4		
A42-161X	2	A43JRE08X	2	A46JH160X	19	A48AAR25X	4		
A42-168X	2	A43JRK00X	19	A46JHP31X	19	A48AAR28X	4		
A42-263X	2	A43JRD00X	4	A46JHP32X	19	A48AAR29X	4		
A42-268	2	A43JSD00X	4	A46JHP33X	19	A48AAR30X	4		
A42-420X	2	A43JUG00X	19	A46JHP91X	19	A48AAR30X	4		
A42-426X	4	A43JUG40X	19	A46JHP92X	19	A48AAR50X	4		
A42-472X	4	A43JUK00X	22	A46JHP93X	19	A48AAR50X	4		
A42-554X	19	A43JUK04X	22	A46JHR00X	19	A48AAAX01X	4		
A42-556X	2	A43JUK08X	22	A46JHR30X	19	A48AAAX02X	4		
A42-570X	2	A43JXJ01X	19	A46JHR30X	19	A48AAZ06X	4		
A42-590X	4	A43JZG01X	4	A46JLU00X	19	A48AAZ26X	4		
A42-591X	4	A43JZG61X	4	A46JLU60X	19	A48ABB00X	4		
A42-592X	4	A43KAR60X	4	A46JLK60X	19	A48ABE10X	4		
A42-593X	4	A43KDG02X	19	A46JLL00X	4	A48ABE60X	4		
A43AAAZ00X	4	A43KDG12X	2	A46JLS01X	19	A48ABH20X	4		
A43AAAZ21X	4	A43KDH02X	4	A46JLS03X	19	A48ABH26X	4		
A43AAZ25X	4	A43KDH12X	4	A46JNT004	4	A48ABH44X	19		
A43ACR24X	4	A43KRN12X	4	A46JPE90X	19	A48ABK00X	19		
A43ADU45X	4	A43KRN60	19	A46JPE96X	19	A48ABK01X	19		
A43ADU46X	4	A43KRB81X	2	A46JRF01X	19	A48ABK02X	19		
A43ADU615X	4			A46JRW20X	19	A48ABK03X	19		
A43ADU616X	4			A46JRW70X	19	A48ABK04X	19		
A43JAN30X	19			A46JUL91X	19	A48ABK05X	19		
A43JAN33X	19			A46JX491X	19	A48ABK06X	19		
A43JAN34X	19			A46JXM91X	19	A48ABK07X	19		
A43JAN35X	19			A46JXW91X	19	A48ABSS1X	3		
				A47-341	6	A48ABSS2X	3		
				A47-342X	6	A48ABT02X	4		