

REVISED

MAYER BROS.
P. O. BOX 750
SEATTLE, WA 98111

April, 1983

SEIKO CASE No. to CRYSTAL No. CONVERSION LISTING

**NEW & COMPREHENSIVE LISTING
SUPERCEDES ALL PREVIOUS EDITIONS**

1. Seiko Identification Price code included on inside cover.
2. All case numbers listed herein ending in zero are interchangeable with all case numbers ending in 1-9.
i.e. 7800-5000 or 7800-5009 use the same crystal.
3. When ordering, please mention ring color if applicable.
4. Additional numbers pages 39-41.

AMERICAN PERFIT CRYSTAL CORP.

653 ELEVENTH AVENUE
NEW YORK, NEW YORK 10036

SEIKO PRICE CODE IDENTIFICATION LISTING

Crystal	Code	Crystal	Code	Crystal	Code
105N01AN	# 1	RE2N21AE	# 25	290V03GM	# 41
340N07AA	# 2	BA0N58AM	# 25	300V06SE	# 42
175N03AL	# 3	SAIN55GN	# 26	190G03GC	# 43
125N03AC	# 4	ES3N69KN	# 26	ES0N21EC	# 44
120N04GN	# 5	RE4N23HN	# 26	KDON71GA	# 45
200N31HN	# 5	ES3N17KE	# 26	ES0N01GE	# 45
280N25KN	# 5	BAOW02AN	# 27	BAON40GZ	# 45
Sapphires	# 6	BAOW14EN	# 27	REON04HZ	# 45
280R01GN	# 7	SAOW39AA	# 28	BAON02GM	# 45
160R01KN	# 7	BAOW01AL	# 29	RE4N55KZ	# 45
325W04AN	# 8	K0OW30AC	# 30	SAIN75GC	# 46
270W01AL	# 9	K0OW31AM	# 30	SA2N41HE	# 46
178W02AC	# 10	K0OW20GN	# 31	ESOW67HE	# 46
200W13AE	# 11	ESIW13LN	# 31	ESIW45HZ	# 46
320W10GN	# 12	ESOW53HN	# 31	BAOW04LZ	# 46
190W31LN	# 12	BAOT02ANT	# 32	BAIW35LE	# 46
305W12GM	# 13			SA2W 59HJ	# 46
295W35HN	# 13	170N03GC	# 33	Sapphires	# 47
310T18AN	# 14	210N03GM	# 33	ESON19SC	# 48
205T15AA	# 15	200W16GA	# 33	SA3N03GS	# 49
208T01AL	# 16	140N08SC	# 34	SAOW67GC	# 50
320T15AC	# 17	Sapphires	# 35	BAOV02GN	# 51
205T09AE	# 18	202W01GL	# 36	ESIW10GM	# 51
300V20GN	# 19	220W07GC	# 37	SAOW08GA	# 51
190G03GN	# 20	300W77HC	# 37	REOV20GC	# 52
295G31HN	# 20	300W45GH	# 38	ESOU13GC	# 52
		195W33HA	# 38	REOV08GE	# 53
SAON07AN	# 21	310V01GA	# 39	BAQV18GNT	# 54
SAON80AA	# 22	305V10GH	# 39	SAOG05GNT	# 55
BAON35AL	# 23	290G31GA	# 39	SAOG31HN	# 55
REON45AC	# 24	210V18GC	# 40	ESOW45GE	# 56
				ESIW17HM	# 56

Procedure used to identify the correct price code;

Example - 3 0 0 N 1 2 G N
 S A O W 3 0 A N
 1 2 3 4 5 6 7 8

The majority of Seiko crystals can be classified into one of the above listed identification codes.

Using the two examples, please note the following;

The first three numbers indicate the mm. size for any round crystal. In the example, 300 is 30.0mm.

If the first three are letters or combination, the crystal is a fancy shape.

The 4th, 7th & 8th letters are the key to identifying the crystal.

In example one, 300N12GN N GN is the key. Looking at the above list for rounds only, you will find #5 is the correct code.

In example two, SAOW30AN W AN is the key. Looking at the above list for fancy shapes you will find # 27 is the correct code.

Case No.	Crystal No.	Case No.	Crystal No.	Case No.	Crystal No.
A021-5000	SA5N29GN	A257-5000	ES1W13LN	A714-5000	SA1W18GN
A028-5060	BA1W13LM10	-5010	"	-5010	ES3W58GN
-5070	BA1W35LM10	A258-5000	ES1W11HZ	-5020	ES3W66GN
A029-4000	SA5N29GZ	-5010	ES1W15HZ	-5030	ES3W34GN
-5000	BAIN43GN	-5020	ES1W21LZ10	-5040	ES3W64GN
-5010	SA1W65GE	-5030	ES1W21LZ40	A829-6000	270W17LN
-5020	BAOW31GE	-5040	ES1W39HZ	-6010	"
A031-5000	SAOG15GNT	-5050	ES1W51HZ	-6020	"
-5010	SAOG19GNT	-5060	ES1W69LN	A927-5000	ES1W26GN
A039-4010	SAOG25GNT	A259-5000	BAOW35HN	-5010	ES1W04GN
-5000	SAOG17GNT	-5010	"	-6000	290W28GN
-5010	SAOG25GNT	-5020	BAOW43HN	A939-5000	ES2W36GN
A127-5000	SAOW96GN	-5030	BAOW39HN	-5010	ES2W38GN
-5010	"	-5040	ES3N71HN	-5030	ES2W24GN
-5020	BA1W14GN	-5050	"	-5070	ES2W40GN
A128-5000	REOW44GN	-5060	BAOW35HN	B122-4000	SA3N54GM
-5010	BAOW82GN	-5070	"	-4010	BAON82GM
A129-5000	REOW44GN	-5080	BAOW43HN	-4020	SA3N52GM
A133-5000	BAOW54GN	-5090	BAOW69HN	-4030	SA3N44GM
A134-5000	BA1W04GN	A354-4000	ESOW80GM	-4050	SA1W70GM
A135-5000	SA1W02GN	-5000	ESOW80GN	-5000	SA1W78GN
A156-5000	BA1W08GM	A358-5000	SA1W24GN	B137-4000	ES1W40GM
-5010	BA1W10GM	A359-4000	BA1W26GM	-4010	SA3N02GM
-5020	BA1W18GM	-4010	BA1W28GM	-4020A	SA1W60GM
-5030	SA1W52GM	-5000	BA1W24GN	-4020B	SA1W44GM
-5040	ESOW94GM	-5010	"	-4030	SA2N98GN
A158-5000	BAOW90GN	-5020	BA1W32GN	-4050	SA3N48GM
-5020	BAOW98GM	-5030	BA1W24GN	-4060	SA3N46GM
-5030	BA1W02GMO1	-5040	BA1W38GN	B337-5000	ES2N74GN
-503A	BA1W02GMO2	-5050	BA1W26GN	-5080	ES1W76GN
-5038	BA1W02GMO3	A439-4000	BAOW61LZ	-5090	SA3W02GN
-5040	BA1W00GN	-4010	BAOW67LE	-5100	ES2W96GN
-5050	BA1W06GN	-5000	ESOW87LN	-6010	190W10GN
-5060	BA1W12GN	A547-5000	ES1W54GMO1	C153-5007	BAON58AMO1
-5070	BAOW90GN	-5010	ES1W54GMO2	-5009	"
-5080	BA1W00GN	-5040	ES1W70GN	or	BAOW58AN
A159-4000	BAOW80GN	-5060	BA1W56GN	-5010	BAON58AMO1
-4010	"	A557-5020	ES1W96GM	C354-5000	ESOW36GN
-4020	"	-5030	ES2W00GM	C359-5000	"
-4030	"	-5050	ES2W22GM	-5010	ESOW96GN
-5000	BAOW54GN	-5060	ES2W94GM	C439-5010	REOW31LN
-5009	BAOW86GN	A628-5000	ES2W09LN	C515-5000	REOW66GN
-5010	BAOW60GN	-5010	ES2W23LN	D031-4000	ESOW01HZ
-5050	BAOW88GN	-5040	ES2W43LM	-4010	BAIN97HZ
A169-5000	BAOW90GN	-5050	ES2W59LM	-4020	ES6N23HZ
-5010	BA1W04GN	-5060	BA1W13LM	D138-4000	ES2W26GM
A229-5000	BAOW41HN	A638-5000	BAOW95LN	-4010	ES2W28GM
-5010	BAOW45HN	-5020	"	-4020	ES2W30GM
-5020	ESOW69HN	A639-5000	BAOW91LN	-5000	ES2W18GN
-5030	BAOW45HN	-5010	BAOW93LN	-5010	"
-5040	ESOW71HN	-5020	BAOW97LN	-5020	ES2W79LN
-5050	"	-5030	REOW33LN	-5030	BAIW45LZ
-5060	"	-5050	BA1W01LN	-5040	SA3W52GN
-5070	"	-5060	BAOW91LN	E029-5000	ES8N07HN
A239-5000	ESOW81HN	-5070	BA1W17LN	-5010	ES2W83HN
-5010	"	A668-5050	ES2W59LM	-5020	ES8N01HN
-5020	"			-5030	ES8N09HE
				-5040	ES8N03HZ

Case No.	Crystal No.	Case No.	Crystal No.	Case No.	Crystal No.
E029-5090	ESCNO1HN	H249-5050	BAOW81HE	L122-5000	ESIN72GM
-5150	ES8N57HN	-5060	ESIW29HN	-5010	KOINO8GM
-5160	ES3W17LN	-5070	"	-5020	SA4N30GM
-5170	BAIW31HN	-5080	"	-5030	SA4N32GN
-5220	BA2N27JN	-5130	ES8N33HN	-5040	SA4N46GM
-5230	ES5N59JN	-5140	BAIW05HN	L221-4000	SA7N31KE
F023-5000	SA4N97GN	-5160	ES2W06GN	-4010	ESOW63HE
-5010	SA5N15GN	-5170	ES2W04GN	-4020	SA7N85HE
F033-4000	SA7N66HE10	4259-500A	SA2W49HN	-4030	BAIN55HE
-4010	" 90	-5008	ESIW17HM	-4050	SA9N93KZ
-5000	SA5N77GN	H357-5000	ESIW32GN	-4060	ES4N65KZ
-5010	SA5N75GN	-5010	BAIW36GN	-4070	SA9NR9HZ
-5020	SA5N89GM	-5020	SA2W02GN	-4080	SA9N51HZ
-5030	SA5N83GE	-5030	BAIW36GN	-4090	SA9NR7HZ
-5040	SA5N85GE	-5040	"	-5000	SA6N91HN
-5050	SA4N97GN	-5050	SA2W04GN	-5010	SA7N01HN
-5060	ES2N81HZ	-5060	"	-5020	BAIN51HM
F039-5000	BAOW49LN	-5070	ESIW44GN	-5030	SA7N19HN
-5010	BAOW51LN	-5080	ESIW46GN	-5040	"
-5020	BAOW49LN	-5090	SA2W02GN	-5050	SA7N91HN
F051-5000	ESOW57HN	-5100	SA2W42GN	-5060	ES4N05HN
-5010	ESOW59HN	-5150	ES2W06GN	-5070	SA7N19HN
-5020	SA7N05HN	-5160	"	-5080	SA2W25HN
-5030	SA8N15HN	H448-5000	ES2W75HN	-5090	ES4N37HN
-5090	SA7N05HN	-5010	SA2W83HN	-5100	SA9N91HN
F162-5010	BAON52GN	-5020	SA8N25HM	-5110	ESIW07HN
F221-4000	ES4N63KZ10	-5030	"	-6000	190W31LN
-4010	" 40	-5040	SABN31HE	-6010	"
-4020	SA9N95KZ	-5050	ESCNO3HN	-6020	190N71HN
-4030	BAIN79KZ	-5060	ES5N13LN	L223-4000	RE4N75KZ
-4040	"	-5070	ESDN77LN	-4010	ES4N55HZ
-5000	ES5N35HN	-5080	SACN13LN	-5000	SA7N91HN
-5010	"	H449-5000	ES2W81HN	-5010	ES4N37HN
F231-4000	BAIN57KE	5100	ESCNO3HN	L423-0010	170N29KZ
-4010	RE4N65KZ	-5120	ES3W01HN	-4000	ES5N23KZ
-5000	SA9N97HN	-5140	BAIW33HN	-4010	SA9NT3KZ
F332-5000	BAON70GM	H556-5000	ES2W80GN	-4020	RE5N09HZ
-5010	REIN52GN	-5010	305W22GN	-4030	BAIN89KZ
-5020	SA2N58GN	-5020	"	-4040	REOW27KZ
-5030	SA2N88GN	-5030	SA3W86GM	-4050	SA9NY7KZ
-5040	SA4N28GM	H557-5000	ES2W52GN	-4060	BAIN93KZ
F332-4000	ESIN34GM	-5030	ES2W74GN	-4070	ES6N41KZ
-4020	BAON80GM	-5050	SA3W44GN	-4080	ES6N35KZ
-5000	SA3N22GN	-5060	ES3W08GN	-4090	ES6N81KZ
-5010	SA3N50GN	-5090	ES3W00GN	-5000	SA9NR5HN
F441-5000	ES5N27KZ	-5140	ES3W32GN	-5010	ES5N75HM
-5010	SA9NT1KZ	-5150	SA3W94GM	-5030	ES6N43HN
G757-4010	SA2W24GM	-5170	"	L620-4000	SA9NE1KZ
-4020	SA2W30GM	L012-4000	SA4N79AN	-4010	BAIN73KZ
-5040	ES2W18GN	4009	SA6N19HN	-4020	ES5N03HZ
H127-5000	SAIW26GM	-5000	SAIN47GN	-4030	ES5N05KZ
H239-5000	ESIW41LN	-5010	SA4N81GN	-4040	SA9NE3KZ
-5020	ESIW43KN	-5020	BAIN39GM	-5000	KO3N23HN
-5030	ESIW45LM	-5030	SAIW63GN	-5010	ES5N07HN
H249-5010	SA9NK5KE	-5040	BAIN39GM	L823-4000	ES2W63LZ
-5020	"	-5050	SA5N45GN	-4010	ESAN47LM
-5030	BAOW77HN	-5060	SA6N59HN	-4020	ESAN81LM
-5040	RE5N03KN	L122-4000	ES2N38GM	-4030	ES2W63LZ

Case No.	Crystal No.	Case No.	Crystal No.	Case No.	Crystal No.
1823-4040	BA2N37LM	0534-5000	SA0G03GN	0842-8050	300W76GN
-4050	SACN05LM	5020	270W09AN	-8070	"
-4060	RE6N49LM	-6000	295W11GN	0843-5000	BA0W25AN
-5000	ES2W65LN	0624-5000	RE0V22GNT	-5010	ESIN03GN
-5010	ES2W61LN	0634-5000	BA0V20GNT	-5020	BA0W27AN
-5020	BA2N11LM	-5010	BA0V18GNT	-5030	ES0G01GN
M154-4000	BA0W72GN	0664-8000	320W32GN	-5040	SA2N61GN
-4010	BA0W74GN	0654-5000	K00W44GN	-5050	ESIN03GN
-4020	BA0W72GN	0662-5000	ES0W20AN	or	SAIW21AN
-4050	SA0W69AN	0664-5000	ES0W22AM01	-8010	290G05GN
-4710	BA0W74GN	0674-5000	BA0V22GNT	-8020	290G11GN
-5000	"	0702-3000	340N07AA	-8030	300W80GC
M158-5000	BA0W66GN	-3010	"	-8040	300W76GN
M159-5000	BA0W54GN	-6010	285V21GN	-8050	"
-5010	BACW78GN	-7070	300W43GN	-8060	"
-5020	"	-8010	290G05GN	-8070	"
-5030	BA0W60GN	-8020	300W76GN	-8080	"
-5040	BA0W78GN	0703-5000	SA0W87AN	0852-8000	300W59GA
-5050	BA0W88GN	-6010	285V21GN	-8020	"
M354-5000	BA0W94GN	-6020	285V31GC	0853-8000	"
-5010	BA0W94GN	-6030	290W09GC	-8020	"
-5020	SAIW18GN	-7000	295V01GN	-8030	"
M929-4000	BAIW20GM	-7010	295V05GC	-8040	"
-5000	BAIW20GN	-7020	295V01GN	0903-5000	ES0W14AN
-5010	ES0W86GN	-7030	280G05GC	-5010	SA0W40AN
-5030	"	-7040	290W09GC	-5020	340W18GN
S021-5000	ES3N45LN	-7050	280G09GC	-5030	SA0W54AN
S022-5000	"	-7060	300W45GC	-5040	ES0W24GN
S229-5010	ES3W47LN	-7070	300W43GN	-5050	K00W48AN
		-7080	300T29AN	-6000	300W76GN
0114-0010	290G01ES	-7090	300W49GC	-7000	300T20AN
0124-0010	SA3N03GS	-7100	280G27GC	7010	310W28GN
-0030	SA0G01GN	-7110	280G29GA	-7020	"
-0040	SA0G01GNT	-8000	290G03GN	-7030	300T20AN
0129-5000	RE0W04AN	-8010	290G05GN	-8000	290W08GN
0138-5000	SAIW51GN	-8020	300W76GN	-8010	300W76GN
-5010	SAIW67GN	-8030	300W59GA	-8020	300W82GN
-5020	"	-8040	295W13GN	-8030	300W72GC
-5030	"	0723-6000	285V17GC	-8040	300W76GN
0139-5000	SA0G11GNT	-6010	285V21GN	-8050	310T18AN
-5010	SA0G13GNT	-6020	285V51GC	-8060	300W76GN
-5020	SAIW37GE	-7000	280G13GN	-8070	310T42AC
0432-4000	ES0W26GC	0822-0010	325N03AN	-8080	300W76GN
-4020	BA0T02ANT	-5010	ESIN03GN	-8090	"
-4030	SAIN50GM	-7000	280G11GN	-8100	"
-4031	SAIN54GM01	-8000	290N07GN	-8110	300W98GN
-5000	BA0W44GN	-8020	310T37AN	-8120	"
0439-4000	BA0T04ANT	0823-5000	ESIN03GN	-8130	300W76GN
-4010	BA0T02ANT	-5020	SA2N61GN	-8140	300W80GC
-4020	SAIN60GM	-6000	290T05AN	-8150	300W76GN
-5000	BA0W44GN	-7000	280G11GN	-8160	310W36GN
0531-0010	295W11GN	-8000	290N07GN	-8750	300W76GN
0532-5000	270W09AN	-8010	"	0920-8000	"
-5010	SA0G05GN	0841-8050	300W76GN	-8010	"
-5020	300W65AN	0842-5010	ESIN03GN	0922-5010	SA0W44AN
0533-5000	SA0G03GNT	-7000	290N13GA	-8000	300W76GN
-5020	270W09AN	-8000	300W76GN	-8010	"

Case No.	Crystal No.	Case No.	Crystal No.	Case No.	Crystal No.
0922-8050	310W34GN	1000-0630	130N13SC	1000-3660	KOON20AN
-8060	300W76GN	-0660	130N09AC	-3670	SAON08AN
0923-5000	SAIN14GN	-0670	"	-3680	REIN57AN
-5010	SAOW44AN	-0680	160N02AC	-3690	BAON37GN
-7000	310W40GA	-0690	155N04AN	-3700	BAON51AN
-7010	"	-0710	155N02AC	-3710	SAON32AN
-8000	300W76GN	-0720	135N01AC	-3720	SAON43GN
-8010	"	-0810	"	-3730	BAON53GN
-8020	300W80GC	-0820	155N05GC	-3750	SAON35GN
-8030	300W82GN	-0850	160N08GC	-3760	SAON29GN
-8040	300W86GC	-0880	150N16GC	-7000	ALON01AC
-8050	310W34GN	-0900	130N15AN	-7010	SAON02AC
-8060	300W76GN	-0910	160N09AN	-7020	ALON04AC
1000-0020	140N07AC	-0940	155N05GC	-7030	ALON05AC
-0030	160N02AC	-0950	150N10AC	-7040	125N01AC
-0080	170N02AC	-0960	ESON06AN	-7050	ALON01AC
-0090	150N05AC	-0970	145N02AN	-7060	"
-0100	150N10AC	-0980	135N05AN	-7070	"
-0110	150N13SC	-0990	150N16GC	-7080	SQON03AN
-0120	170N02AC	-1000	"	-7090	SAON02AC
-0140	150N10AC	-1010	155N04AN	-7100	ALON25AC
-0150	"	-1020	"	-7110	"
-0160	"	-1030	"	-7120	ALON02AC
-0170	"	-1040	"	-7130	"
-0190	150N13SC	-3000	REON38AN	-7140	"
-0200	"	-3010	REON39AN	-7150	"
-0210	150N10AC	-3020	REON40AN	-7160	"
-0220	130N05AC	-3030	REON41AN	-7170	ALON06AC
-0230	150N10AC	-3040	REON42AN	-7180	"
-0240	130N03AN	-3050	"	-7190	ALON02AC
-0250	150N15AC	-3070	REON43AN	-7240	130N13AC
-0260	130N03AN	-3080	REON44AN	-7250	110N04AN
-0270	130N05AC	-3090	REON41AN	-7260	ALON04AC
-0280	170N03GC	-3110	REON46AN	-7300	ALON17AC
-0290	130N08GC	-3140	REON47AN	-7310	"
-0300	150N10AC	-3150	"	-7320	KOON11AC
-0330	130N03AN	-3160	REON10AN	-7330	KOON12AC
-0340	"	-3170	REON47AN	-7340	ALON13AC
-0360	130N08GC	-3180	"	-7350	ESON02AC
-0370	"	-3190	"	-7360	TDON03AC
-0380	130N09AC	-3200	REON11AN	-7370	KOON07AC
-0400	130N08GC	-3220	REON47AN	-7380	SAON05AN
-0410	155N02AC	-3250	SAON23AC	-7390	"
-0420	"	-3280	REIN29AN	-7400	ALON07AC
-0430	"	-3390	SAON40AC	-7410	"
-0440	130N05AC	-3400	SAON43AN	-7420	KOON05AC
-0450	150N13SC	-3410	SQON25AN	-7430	"
-0470	130N03AN	-3420	SAON29GN	-7440	132N01AC
-0480	"	-3510	SAON23AC	-7450	SAON21AC
-0490	150N13SC	-3530	SAON50GN	-7460	"
-0500	155N02AC	-3540	"	-7470	ALON02AC
-0520	"	-3560	BAON26AN	-7480	SQON04AN
-0530	"	-3570	SAON52AN	-7490	ALON02AC
-0540	160N03AC	-3580	REIN45AN	-7500	ALON07AC
-0550	150N06AC	-3590	SAON53AN	-7510	"
-0570	"	-3600	BAON27AN	-7520	KOON05AC
-0600	190N14AN	-3610	SAON29GN	-7530	ALON25AC
-0610	"	-3640	REIN55AN	-7540	"
-0620	145N01AN	-3650	SAON18AN	-7550	"

Case No.	Crystal No.	Case No.	Crystal No.	Case No.	Crystal No.
1000-7560	ALON25AC	1000-8220	ALON45GN	1020-0040	140N10AC
-7570	"	-8230	"	-0050	140N08SC
-7580	"	-8240	SAON29GN	-0060	140N12SC
-7590	"	-8250	TDON09GC	-0070	150N13SC
-7610	"	-8260	BAON24AC	-3000	REON18AN
-7620	ALON19AC	-8270	ALON46GN	-3010	REON19AN
-7630	ALON11AC	-8280	ALON47AC	-3030	130N10SC
-7640	"	-8290	ALON45GN	-3040	140N12SC
-7650	ALON02AC	-8300	KOON09AN	-7000	ALON02AC
-7660	"	-8310	ALON45GN	-7010	"
-7670	ALON09AC	-8320	KOON24GC	-7030	ALON13AC
-7680	"	-8330	ALON45GN	-7040	KOON09AC
-7690	ALON20AC	-8360	KOON27AN	-7050	ALON41AC
-7700	"	-8370	KOON28AN	-7060	KOON25GN
-7710	ALON19AC	-8380	KOON29AN	-7070	KOON32GN
-7720	ALON25AC	-8390	ALON45GN	1040-0010	180N05AN
-7730	ALON11AC	-8400	110N05GN	-0020	155N03AC
-7740	"	-8410	SAON35GN	-0030	160N05GN
-7760	ALON10AC	-8420	ALON49AN	-0040	160N06GC
-7770	"	-8430	ALON45GN	-0050	160N07SC
-7780	ALON09AC	-8440	ALON09AC	-0060	150N16GC
-7790	ALON11AC	-8450	130N25GN	-0070	180N05AN
-7800	"	1004-0010	180N03AC	-0080	150N16GC
-7810	"	-0020	190N13AC	-3000	REON20AN
-7820	"	-0030	210N04AN	-3010	150N13SC
-7830	"	-0040	150N06AC	-3020	SQON04AN
-7840	"	-0050	170N01AC	-3030	SAON49GN
-7850	"	-0060	130N02AC	-3040	SAON48AN
-7860	TDON05AC	-0070	140N07AC	-3050	KOON23AN
-7870	ALON09AC	-0080	130N03AN	-3060	160N06GC
-7890	ALON11AC	-0090	155N02AC	-7000	ALON12AC
-7900	ALON09AC	-0100	150N08AN	-7010	"
-7910	"	-0110	130N04AC	-7020	ALON09AC
-7930	ALON21AN	-0120	140N04AC	-7030	"
-7940	125N02AN	-0130	150N09AC	-7040	ALON37AN
-7950	ALON09AC	-0180	190N11AN	-7050	ALON09AC
-7980	TDON05AC	-8190	178W02AC	-7060	"
-7990	ALON09AC	-0200	190N12AN	-7070	"
-8000	ALON11AC	-0230	135N01AC	-7080	KOON17AC
-8010	SAON04AC	-0240	140N04AC	1100-0010	130N03AN
-8020	ALON25AC	-3010	REON28AN	-0020	130N02AC
-8030	"	-3020	REON29AN	-0030	180N09AN
-8040	ALON09AL	-3030	REON30AN	-0040	145N02AN
-8050	TDON07AC	-3040	REON31AN	-0050	150N06AC
-8060	SAON04AC	-3050	REON33AN	-0060	135N05AN
-8080	ALON09AC	-3070	REON32AN	-0070	110N05GN
-8090	ALON35AC	-3080	REON33AN	-0100	160N13AC
-8100	"	-3090	REON34AN	-0170	135N03AC
-8110	KOON15AN	-3100	REON35AN	-0180	125N04AN
8120	ALON09AC	-3110	REON36AN	-0190	SAON45AN
-8130	"	-3120	REON37AN	-0200	135N05AN
-8140	ALON39AN	-3130	REIN25AN	-0210	155N02AC
-8150	SAON19AN	-7000	130N02AC	-0220	150N16GC
-8170	ALON25AC	-7010	"	-0230	"
-8180	KOON21AC	-7030	ALON16AC	-0240	155N05GC
-8190	ALON43GN	1020-0010	170N05SC	-0250	150N16GC
-8200	SAON28GN	-0030	150N06AC	-0260	135N03AC

<u>Case No.</u>	<u>Crystal No.</u>	<u>Case No.</u>	<u>Crystal No.</u>	<u>Case No.</u>	<u>Crystal No.</u>
1100-0270	150N135C	1100-0940	180N21AN	1100-3070	SA0N39AC
-0280	150N10AC	-0950	150N08AN	-3080	SA0N18AN
-0290	130N13AC	-0960	175N05AN	-3090	SA0N37AN
-0300	ES0N06AN	-0970	290N03AN	-3100	BA0N51AN
-0310	160N09AN	-0980	220N13AN	-3110	REIN57AN
-0320	130N15AN	-0990	"	-3120	SA0N32AN
-0330	140N14GC	-1000	202N01AN	-3130	BA0N27AN
-0340	140N06GC	-1010	160N35GN	-3140	SA0N53AN
-0350	150N08AN	-1020	220N15AN	-3150	BA0N26AN
-0360	140N06GC	-1030	170N09AN	-3160	SA0N51AN
-0390	155N04AN	-1040	130N03AN	-3170	REIN29AN
-0400	"	-1050	240R01GN	-3180	REIN45AN
-0410	130N17AN	-1060	180N35GN	-3210	RE0N46AN
-0420	"	1110	160N29AN	-3230	SA0N08AN
0430	140N06GC	-1160	160N35GN	-3240	SA0N34GN
-0440	150N23GN	-1170	170N09AN	-3250	SA0N36GN
-0450	130N03AN	-1190	165N07SN	-3260	BA0N37GN
-0460	"	-1220	160N41GN	-3270	SA0N29GN
-0470	130N21AN	-1230	180N27AN	-3290	SA0N50GN
-0480	155N04AN	-1240	"	-3310	"
-0490	150N23GN	-1250	"	-3320	SA0N29GN
-0500	150N25AN	-1260	"	-3330	SA0N52AN
-0510	180N08SN	-1280	145N02AN	3340	SA0N34GN
-0520	130N23AN	-1290	180N09AN	-3350	"
-0540	140N07AC	-1300	160N41GN	-3360	SA0N29GN
-0550	160N08SC	-1310	140N06GC	-3370	SA0N91AN
-0560	160N05GN	-1320	180N43GN	3380	SA0N90AN
-0580	130N27GC	-1330	150N25AN	-3390	SA0N92AN
-0590	"	-1340	170N19AN	-3400	RE2N11AN
-0600	130N21AN	-1350	220N27AN	-3410	SA0N29GN
-0610	175T07AN	-1360	180N27AN	-3420	SA0N94AN
-0620	"	-1370	"	-3430	"
-0630	140N19AC	-1380	"	-3440	SA0N22GN
-0640	150N31AC	-1390	"	-3450	ES0N07AN
-0670	160N21AN	-1400	160N57AN	-3460	RE2N27AN
-0680	"	-1410	190N41AN	-3470	"
-0690	160N09AN	-1420	"	-3480	"
-0700	160N05GN	-1430	"	-3490	SAIN09AN
-0710	150N35GN	-1440	170N23AN	-3500	SAIN11AN
-0720	195N03AN	-1450	190N61AN	-3510	"
-0730	160N23GN	-1460	130N35AN	-3520	SAIN25AN
-0740	130N31GC	-1470	175N05AN	-3540	SA0N36GN
-0750	"	-1480	170N31AN	-3550	"
-0760	160N27GN	-1490	190N75AN	-3560	"
-0770	140N06GC	-1500	185N17AN	-3570	ES0N29GN
-0780	320R01GN	-1510	130N35AN	-3580	ES0N27GN
-0790	270R01GN	-1520	135N05AN	3590	ES0N25GN
-0800	180N21AN	-1530	135N05AN	-3600	RE2N27AN
-0810	130N29SC	-1540	180N61AN	-3610	SAIN55GN
-0830	160N29AN	-1550	200N65AN	-3620	RE2N49AN
-0840	180N35GN	-1560	260N23AN	-3630	SA0N34GN
-0850	160N09AN	-3000	BA0N55AN	-3640	ES0N21GC
-0860	200N15AN	-3010	SA0N69AN	-3660	SAIN25AN
-0870	280R01GN	-3020	SA0N48AN	-3670	SAIN65AN
-0880	220N10AN	-3030	REIN55AN	-3700	SAIN69AN
-0890	160N23GN	-3040	RE0N47AN	-3710	ES0N47AC
-0900	200N17AC	-3050	"	-3720	ES0N21GC
-0910	175T07AN	-3060	SQ0N17AN	-3730	ES0N23GC

Case No.	Crystal No.	Case No.	Crystal No.	Case No.	Crystal No.
1100-3740	RE2N61AN	1100-4500	SA2N97GN	1100-5380	SA7N37AN
-3750	RE2N67AN	-4570	ESIN47GN	-5390	ES3N57AN
-3760	SAON34GN	-4580	ESIN49GN	-5400	RE4N45AN
3770	ESON61GC	-4590	KOIN89GN	-5410	SA3N71AN
-3780	ESON65GC	-4600	SA3N33GN	-5420	SA8N01AN
-3800	RE2N83AN	-4610	BAIN27AN	-5430	ES3N65AN
-3810	RE2N85AN	-4620	220N25AN	-5440	ES3N67AN
-3820	SQON45AN	-4630	RE3N41AN	-5450	ES3N75AN
-3830	REIN55AN	-4650	SA3N59GN	-5460	ES4N33AN
-3840	RE2N81AC	-4660	SA3N61GN	-5470	SA9N23AN
-3850	SAIN91AN	-4670	SA3N65GN	-5480	SA9N17AN
-3860	BAIN11AN	-4690	RE3N71AN	-5490	SA4N25AN
-3870	ESON83AN	-4730	SA3N83GN	-5500	ES2N53AN
-3890	SA2N03AN	-4740	ES2N01GN	-5510	SA7N71AN
-3900	SAIN99AN	-4750	SA4N21GN	-5520	KO3N17AN
-3910	"	-4790	RE3N71AN	-5530	ES4N51AN
-3920	SAIN29AN	-4800	SA4N25AN	-5540	KO3N11AN
-3930	ESON91GN	-4810	RE3N75AN	-5550	SA9N63AN
-3940	SAIN73GN	-4820	"	-5560	ALON53AN
-3950	SA2N13SN	-4830	"	-5570	ES4N53AN
-3960	"	-4840	RE3N77AN	-5580	RE4N97AN
-3970	SA2N15SN	-4850	RE3N83AC	-5590	SA9NG3AN
-3990	ESON97AN	-4860	SA4N29AN	-5600	SAIN09AN
-4000	SQON51AN	-4870	RE3N85AN	-5610	SA9NT7AN
-4020	SA2N17GN	-4890	ES2N07AN	-5620	SA9NX7AN
-4040	130N03AN	-4900	ESON51GN	-5630	ES5N87AN
-404A	ESON89GC	-5000	SA4N55GN	-5640	ES6N11AN
-404G	"	-5010	BAIN13GN	-5650	ES7N31AN
-4050	SAOW69AN	-5020	SA4N53GN	-5690	ES7N99AN
-4090	RE2N93GN	-5030	SA4N67GN	-5700	RE5N51AN
-4100	SA2N35AN	-5040	SA4N65GN	-5710	ES9N67AN
-4110	SAIN25AN	-5050	RE3N95GN	-5720	SABN05AN
-4120	SA2N45GN	-5060	KO2N37GN	-5730	ES9N73AN
-4130	SA2N43AN	-5070	SA4N91GN	-5740	ES9N81AN
-4140	SAIN09AN	-5080	ES2N21AN	-5750	ES9N77AN
-4150	SA2N51AN	-5100	KO2N39GN	-5760	ESCN57AN
-4160	RE3N13AN	-5110	SA5N09GN	-5770	ESCN53AN
-4170	SA2N53AN	-5130	SA5N33AN	-7000	KOON35AN
-4180	"	-5140	RE4N07AN	-7010	KOON23AN
-4190	RE3N15AN	-5150	ES2N31AN	-7020	KOON28AN
-4200	ESIN13AN	-5160	SA5N63AN	-7030	KOON29AN
-4210	SA2N49GN	-5170	SA5N91AN	-7040	ALON50AC
-4220	RE3N11AN	-5180	SA6N05AN	-7050	KOON23AN
-4230	RE3N09AN	-5190	ES2N47AN	-7060	KOON27AN
-4250	ESIN23AN	-5200	ES2N49AN	-7070	KOON26AN
-4260	ESIN21AN	-5210	SA5N97GN	-7090	125N02AN
-4270	SA2N59AN	-5240	SA6N11AN	-7100	BAON61AC
4280	RE3N19AN	-5250	ES2N53AN	-7110	ALON51GN
-4290	SQON61AN	-5260	KO2N47AN	-7120	"
-4300	RE3N25AN	-5270	ES2N61AN	-7130	ALON45GN
-4310	RE3N23GC	-5280	RE4N23HN	-7140	ALON09AC
-4320	RE3N27GN	-5290	SA6N65HN	-7150	ALON11AC
-4330	SA2N83GN	-5300	SA6N57HN	-7160	BAON24AC
-4450	BAIN11AN	5310	SA6N93AN	-7170	ALON43GN
-4460	SAIN91AN	-5320	ES3N11AN	-7180	ALON35AC
-4470	ESON83AN	-5330	SA7N03AN	-7190	ALON45GN
-4480	BAIN21GN	-5340	ES3N25AN	-7200	"
-4490	RE3N31AN	-5350	RE4N35AN	-7220	"
		5360	ES3N41AN	-7230	ALON09AC
		-5370	KO2N83AN		

Case No.	Crystal No.	Case No.	Crystal No.	Case No.	Crystal No.
1100-7240	KOON246C	1100-7920	SA2N095N	1104-0110	135N05AN
-7250	ALON456N	-7930	SA2N075N	-0120	180N09AN
-7260	"	-7940	KOIN316N	-0130	SAON20AN
-7270	SAON296N	7950	"	-0140	135N05AN
-7280	ALON52AN	-7960	KOIN35AN	-0150	178W03AN
-7290	ALON456N	-7970	ESON856C	-0160	200W046N
-7300	SAON19AN	-7980	ESON01AN	-0170	185T03AN
-7350	SAON356N	-7990	KOON08AN	-0180	150N25AN
-7360	KOON326N	-8000	KOON716N	-0190	160N29AN
-7370	"	-8010	KOIN37AN	-0200	215T05AN
-7380	KOON166N	-8020	ESON456N	-0210	210G056A
-7390	SAON85AN	-8030	SQON57AN	-0220	175T07AN
-7400	ALON456N	-8040	KOIN41AN	-0230	275N03AN
-7410	ALON516N	-8050	KOIN43AN	-0240	160N31AN
-7430	ALON11AC	-8060	ESIN17AN	-0250	200T11AN
-7440	KOON26AN	-8070	KOON75AN	-0260	170N23AN
-7450	KOON26AN	-8080	SA2N736A	-0270	200T11AN
-7480	KOON326N	-8090	ESIN276N	-0280	180N61AN
-7490	KOON436N	8100	KOIN536N	-0290	200N55AN
-7500	BAON71AN	-8190	ESON49AN	-0300	"
-7510	KOON15AN	-8200	KOON95AN	-0310	180N67AN
-7520	KOON45AN	-8210	TDON13AN	-0320	"
-7530	KOON23AN	-8220	KOIN576N	-0330	"
-7550	KOON326N	-8230	ESON49AN	-0340	ESCN89LM
-7560	KOON516N	-8240	ESIN596C	-0350	ESCN85LM
-7570	KOON49AN	-8360	ESIN79AN	-3000	REON85AN
-7580	KOON516N	-8370	ESIN836N	-3010	SAON25AN
-7590	ESON116N	-8380	"	-3020	REIN85AN
-7600	"	-8390	SA3N516N	-3030	SAON27AN
-7610	KOON45AN	-8400	"	-3040	SAON04AC
-7620	KOON69AN	-8410	KOIN996N	-3050	SAON07AN
-7630	KOON246C	-8470	KO2N016N	-3070	SAON33AN
-7640	KOON75AN	-8480	"	-3110	REIN53AN
-7650	KOON79AN	-8490	KO2N036N	-3120	SAON58AN
-7660	KOON676N	-8520	ESIN876N	-3130	SAON60AN
-7670	ESON456N	-8560	KO2N11AN	-3140	SQON27AN
-7680	"	-8580	KO2N29AN	-3150	BAON29AN
-7690	KOON93AN	-8590	KOIN396N	-3160	SAON24AN
-7710	KOON95AN	-8250	KOIN85AN	-3180	REIN79AN
-7720	ESON49AN	-8260	220N25AN	-3190	REIN53AN
-7730	TDON11AN	-8270	ESIN69AN	-3200	BAON29AN
-7740	BAON916C	-8280	SA3N39AN	-3210	SAON86AN
-7750	SAIN676C	-8290	ESIN67AN	-3220	SAON95AN
-7760	ESON195C	-8300	KOIN91AN	-3230	SAON96AN
-7770	KOON776N	-8310	ESIN73AN	-3240	SAON97AN
-7780	BAON95AN	-8320	ESIN65AN	-3250	"
-7790	ESON75AN	-8330	SA3N37AN	-3260	SAON98AN
-7800	ESON73AN	-8340	ESIN71AN	-3270	RE2N35AN
-7810	ESON69AN	-8350	BAIN29AN	-3280	"
-7820	KOIN11AN	-8420	KOIN996N	-3290	"
-7830	KOIN09AN	1104-0010	KOON19AN	-3300	RE2N69AN
-7840	KOON466N	-0020	155N03AN	-3310	RE2N75AN
-7850	SAIN896C	-0030	210N04AN	-3320	BAIN05AN
-7860	KOIN25AN	-0040	190N12AN	-3330	SAIN85AN
-7870	"	-0050	130N09AC	-3340	ESON55AN
-7880	KOIN23AN	-0060	178W02AC	-3350	ESIN25AN
-7890	KOIN21AN	-0070	135N03AC	-3360	SA2N87AN
-7900	SAIN97AN	-0090	185T03AN	-3370	SA2N89AN
-7910	SA2N075N	-0100	215T03AN	-3380	SA2N87AN
				-3390	ESIN456N

Case No.	Crystal No.	Case No.	Crystal No.	Case No.	Crystal No.
1104-3400	RE3N53AN	1140-0010	140N14GC	1140-7180	ES0N87GC
-3410	ESIN91AN	-0020	150N17SC	-7190	ES0N85GC
-3420	RE3N57AN	-0030	150N13SC	-7200	K00N71GN
-3430	ESIN93AN	-0040	"	-7220	K0IN39GN
-5000	ES2N45AN	-0050	150N16SC	-7230	K0IN39GA
-5010	ES2N41AN	-0060	170N05SC	1144-0010	178W03AN
-5020	ES2N43AN	-0070	150N19GC	-0020	180N09AN
-5030	K02N59AN	-0080	160N06GC	-3000	K00N33AN
-5040	SA6N85AN	-0090	180N09AN	-3010	8A0N33AN
-5050	ES4N85AN	-0100	180N11AN	-3020	195T01AN
-5060	SA4NC3AN	-0110	150N13SC	-3030	8A0W03AN
-5070	ES5N89AN	-0120	140N06GC	-3040	SA0W07AN
-5080	ES5N91AN	-0130	"	1230-0010	190W77SN
-5090	K03N93AN	-0140	140N08SC	-5000	ES0N41SN
-5100	ESCN69AN	0160	160N17SN	-5020	ES0N53SE
-5110	ESCN73AN	-0170	170N09AN	-5030	RE6N35SN
-5120	ESCN91AN	-0180	150N27EC	-5040	ES0N59SN
-5130	ESCN67AN	-0200	170N11SC	-5050	ES0N43SN
-5140	ESCN65AN	-0210	140N17GC	-5060	ES0N35SN
-7000	RE0N27AN	-0220	170N15GN	-5070	SA8N83SN
-7020	K00N31AN	-0240	170N17GC	-5160	RE6N29SN
-7040	K00N63AN	-3000	SA0N35GN	1320-5000	K02N89KN
-7050	"	-3010	8A0N53GN	-5010	SA7N57KN
-7070	BAIN01AN	-3020	SA0N35GN	-5020	RE4N47KN
-7080	K0IN07AN	-3030	"	-5030	SA7N63KN
-7090	ES0N57AN	-3040	150N13SC	-5040	RE4N49KN
-7100	TD0N13AN	-3050	SA0N49GN	-5100	BAIN59KN
-7110	ES0N95AN	-3060	160N06GC	-5110	RE4N63KN
-7120	ES0N93AN	-3090	SA0N76AN	-5120	SA8N79KN
-7130	K0IN51AN	-3100	SA0N34GN	-5130	SA8N87SN
-7140	"	-3110	SAIN04AN	-5140	K03N07KN
1120-0010	180N08SN	-3120	"	-5150	SA8N95KN
-0040	"	-3130	SAIN05GN	-5160	RE4N69KN
-0050	190N27GA	-3140	ES0N21EC	-5170	RE4N47KN
-0060	180N08SN	-3150	ES0N23GC	-5180	RE4N71KZ10
-0070	180R01SN	-3160	SAIN55GN	-5190	SA8N97KN
-0080	160N19SC	-3170	ES0N51GN	-5200	RE4N79KN
-0090	150N33SN	-3180	BAIN03GC	-5210	SA9N39KN
-0110	160N39SN	-3190	ES0N63GC	-5220	SA9N27KN
-0120	160N41GN	-3200	RE2N93GN	-5230	K03N13KN
-0150	160N25SC	-3240	BAIN13GN	-5240	RE4N85KN
-3000	SA0N74GN	-7000	SA0N36GN	-5250	BAIN65KN
-3010	SA0N72EN	-7010	"	-5260	ES4N35KN
-3020	SAIN01GN	-7020	K00N17AC	-5270	SA9N65KN
3030	SAIN03GN	-7030	AL0N09AC	-5280	BAIN59KN
-3040	BA0N73GN	-7040	AL0N37AN	-5290	BAIN61KN
-3050	RE2N37GA	-7050	K00N41AN	-5300	K03N15HN
-3060	SAIN73GN	-7060	K00N32GN	-5310	ES4N87HN
-3070	SAIN75GC	-7070	AL0N45GN	-5320	K03N19KN
-3080	SAIN83SN	-7080	AL0N51GN	-5330	ES4N43GC
-3090	ES0N67EC	-7090	K00N32GN	-5340	K03N25KN
-3100	SA2N25GC	7100	AL0N45GN	-5350	"
-3110	RE3N03GN	-7110	K00N32GN	-5390	ES4N43GC
-3120	BAIN17SC	-7120	K00N25GN	-5400	SA9NC5SN
-3130	BAIN23SN	-7130	K00N67GN	-5380	SA9NR1SN
-7000	K00N32GN	-7140	K00N97GC	-5410	K03N13KN
-7010	AL0N51GN	-7150	"	-5420	SA8N95KN
-7030	ES0N19SC	-7160	K0IN05GN	5490	K03N63KN
		-7170	"		