

8. Appendix A (CTCSS/DCS CODE)

8.1. CTCSS Tone

67.0Hz	94.8Hz	131.8Hz	171.3Hz	203.5Hz
69.3Hz	97.4Hz	136.5Hz	173.8Hz	206.5Hz
71.9Hz	100.0Hz	141.3Hz	177.3Hz	210.7Hz
74.4Hz	103.5Hz	146.2Hz	179.9Hz	218.1Hz
77.0Hz	107.2Hz	151.4Hz	183.5Hz	225.7Hz
79.7Hz	110.9Hz	156.7Hz	186.2Hz	229.1Hz
82.5Hz	114.8Hz	159.8Hz	189.9Hz	233.6Hz
85.4Hz	118.8Hz	162.2Hz	192.8Hz	241.8Hz
88.5Hz	123.0Hz	165.5Hz	196.6Hz	250.3Hz
91.5Hz	127.3Hz	167.9Hz	199.5Hz	254.1Hz

8.2. DCS Code

023	051	114	143	174	245	266	332	411	452	506	612	703
025	053	115	145	205	246	271	343	412	454	516	624	712
026	054	116	152	212	251	274	346	413	455	523	627	723
031	065	122	155	223	252	306	351	423	462	526	631	731
032	071	125	156	225	255	311	356	431	464	532	632	732
036	072	131	162	226	261	315	364	432	465	546	654	734
043	073	132	165	243	263	325	365	445	466	565	662	743
047	074	134	172	244	265	331	371	446	503	606	664	754

9. Appendix B (FONT DATA)

9.1. Font 16 x 8

0x20	0x21	0x22	0x23	0x24	0x25	0x26	0x27	0x28	0x29	0x2A	0x2B	0x2C	0x2D	0x2E	0x2F
	!	"	#	\$	%	&	'	()	*	+	,	-	.	/
0x30	0x31	0x32	0x33	0x34	0x35	0x36	0x37	0x38	0x39	0x3A	0x3B	0x3C	0x3D	0x3E	0x3F
0	1	2	3	4	5	6	7	8	9	:	;	(=)	?
0x40	0x41	0x42	0x43	0x44	0x45	0x46	0x47	0x48	0x49	0x4A	0x4B	0x4C	0x4D	0x4E	0x4F
@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
0x50	0x51	0x52	0x53	0x54	0x55	0x56	0x57	0x58	0x59	0x5A	0x5B	0x5C	0x5D	0x5E	0x5F
P	Q	R	S	T	U	V	W	X	Y	Z	[\]	^	_
0x60	0x61	0x62	0x63	0x64	0x65	0x66	0x67	0x68	0x69	0x6A	0x6B	0x6C	0x6D	0x6E	0x6F
~	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
0x70	0x71	0x72	0x73	0x74	0x75	0x76	0x77	0x78	0x79	0x7A	0x7B	0x7C	0x7D	0x7E	0x7F
p	q	r	s	t	u	v	w	x	y	z	{		}	~	
0x80	0x81	0x82													
█	↑	↓													

9.2. Font 8 x 8

0x20	0x21	0x22	0x23	0x24	0x25	0x26	0x27	0x28	0x29	0x2A	0x2B	0x2C	0x2D	0x2E	0x2F
	!	"	#	\$	%	&	'	()	*	+	,	-	.	/
0x30	0x31	0x32	0x33	0x34	0x35	0x36	0x37	0x38	0x39	0x3A	0x3B	0x3C	0x3D	0x3E	0x3F
0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
0x40	0x41	0x42	0x43	0x44	0x45	0x46	0x47	0x48	0x49	0x4A	0x4B	0x4C	0x4D	0x4E	0x4F
a	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
0x50	0x51	0x52	0x53	0x54	0x55	0x56	0x57	0x58	0x59	0x5A	0x5B	0x5C	0x5D	0x5E	0x5F
P	Q	R	S	T	U	V	W	X	Y	Z	[\]	^	_
0x60	0x61	0x62	0x63	0x64	0x65	0x66	0x67	0x68	0x69	0x6A	0x6B	0x6C	0x6D	0x6E	0x6F
`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
0x70	0x71	0x72	0x73	0x74	0x75	0x76	0x77	0x78	0x79	0x7A	0x7B	0x7C	0x7D	0x7E	0x7F
p	q	r	s	t	u	v	w	x	y	z	{		}	~	
0x80	0x81	0x82	0x83	0x84	0x85	0x86	0x87	0x88	0x89	0x8A	0x8B	0x8C	0x8D	0x8E	0x8F
■	↑	↓	↶	↷	↻	↺	↻	↻	↻	↻	↻	↻	↻	↻	↻
0x90	0x91	0x92	0x93	0x94	0x95	0x96	0x97	0x98	0x99	0x9A	0x9B	0x9C	0x9D	0x9E	0x9F
]	+	⊗	T	L	L	/	O	A	A	F	F	N	F		
0xA0	0xA1	0xA2	0xA3	0xA4	0xA5	0xA6	0xA7	0xA8	0xA9	0xAA	0xAB	0xAC	0xAD	0xAE	0xAF
	P	R	I							
0xB0	0xB1	0xB2	0xB3	0xB4	0xB5	0xB6	0xB7	0xB8	0xB9	0xBA	0xBB	0xBC	0xBD	0xBE	0xBF
	□	□	□		↘	↘	↘								
0xC0	0xC1	0xC2	0xC3	0xC4	0xC5	0xC6	0xC7	0xC8	0xC9	0xCA	0xCB	0xCC	0xCD	0xCE	0xCF
					S	R	I	C	:					B	N
0xD0	0xD1	0xD2	0xD3	0xD4	0xD5	0xD6	0xD7	0xD8	0xD9	0xDA	0xDB	0xDC	0xDD	0xDE	0xDF
				S	U	I	C	:	O	:	P	R	O		

10. Appendix C (PC programming Command)

【 Remote Communication Format 】

BPS rate : 4800/9600/19200/38400/57600/115200 bps
Start/Stop bit : 1 bit, 1 bit
Data Length : 8 bit
Parity Check : None
Code : ASCII
Flow Control : None
Return Code : Carriage Return only

【 FORMAT OF THIS DOCUMENT 】

<COMMAND NAME>

Summary explanation of the function of the command

Controller → Radio
 Command format
Radio → Controller
 Response format

NOTE

1. Any command is required to wait a response from the scanner, then, next command will be acceptable.
2. All memory access commands are acceptable in only Program Mode.
Use PRG command to enter Program Mode, and EPG command to exit.
3. Error message isn't described in this document, but the scanner returns error message to the controller as follows.
 - 1) Command format error / Value error : ERR[¥r]
 - 2) The command is invalid at the time : NG[¥r]
4. [¥r] means "to hit the Enter key" or "to send the Return code".
5. In set command, only "," parameters are not changed.
6. The set command is aborted if any format error is detected.

< BC125AT OPERATION SPECIFICATION >

Programming Command List

No.	Category	Command	Function	Program Mode Only
1.	Program Control Mode	PRG	Enter Program Mode	
2.		EPG	Exit Program Mode	
3.	System Information	MDL	Get Model Info	
4.		VER	Get Firmware Version	
5.	System Settings	BLT	Get/Set Backlight	0
6.		BSV	Get/Set Battery Info	0
7.		CLR	Clear All Memory	0
8.		BPL	Get/Set Band Plan	0
9.		KBP	Get/Set Key Beep and setting	0
10.		PRI	Get/Set Priority Mode	0
11.	Scan Settings	SCG	Get/Set SCAN Channel Group	0
12.		DCH	Delete Channel	0
13.		CIN	Get/Set Channel Info	0
14.	Search / Close Call Settings	SCO	Get/Set Search/Close Call Settings	0
15.		GLF	Get Global Lockout Freq	
16.		ULF	Unlock Global L/O	
17.		LOF	Lock Out Frequency	0
18.		CLC	Get/Set Close Call Settings	0
19.	Service Search Settings	SSG	Get/Set Service Search Settings	0
20.	Custom Search Settings	CSG	Get/Set Custom Search Group	0
21.		CSP	Get/Set Custom Search Settings	0
22.	Weather Settings	WXS	Get/Set Weather Settings	0
23.	LCD Contrast Settings	CNT	Get/Set LCD Contrast Settings	0
24.	Volume Level Settings	VOL	Get/Set Volume Level Settings	
25.	Squelch Level Settings	SQL	Get/Set Squelch Level Settings	

<COMMAND PRG>
Enter Program Mode

- Controller → Radio
① PRG[¥r]
Radio → Controller
① PRG,OK[¥r]
② PRG,NG[¥r]

This command is invalid when the scanner is in Menu Mode, during Direct Entry operation, during Quick Save operation.

The scanner goes to Program Mode.
The scanner displays "Remote Mode" on first line and "Keypad Lock" on second line in Program Mode.

<COMMAND EPG>
Exit Program Mode

- Controller → Radio
① EPG[¥r]
Radio → Controller
① EPG,OK[¥r]

The scanner exits from Program Mode.
Then the scanner goes to Scan Hold Mode.

<COMMAND MDL>
Get Model Info

- Controller → Radio
① MDL[¥r]
Radio → Controller
① MDL,BC125AT[¥r]

Returns Model Information.

<COMMAND VER>
Get Firmware Version

- Controller → Radio
① VER[¥r]
Radio → Controller
① VER,Version 1.00.00[¥r]

Returns Firmware Version.

<COMMAND BLT>
Get/Set Backlight

- Controller → Radio
① BLT[¥r]
② BLT,[EVNT][¥r]
Radio → Controller
① BLT, [EVNT],[¥r]
② BLT,OK[¥r]

[EVENT]

AO :ALWAYS ON
KY : KEYPRESS
KS : KEY+SQL

AF :ALWAYS OFF
SQ : SQUELCH

Get/Set Backlight Setting.
This command is only acceptable in Programming Mode.

<COMMAND BSV >

Get/Set Battery Info

Controller → Radio

- ① BSV [✕r]
- ② BSV,[CHARGE_TIME][✕r]

Radio → Controller

- ① BSV,[CHARGE_TIME] [✕r]
 - ② BSV,OK[✕r]
[CHARGE_TIME] Battery Charge Time (1-16)
-

<COMMAND CLR>

Clear All Memory

Controller → Radio

- ① CLR[✕r]

Radio → Controller

- ① CLR,OK[✕r]

All the memories are set for initial setting.
This command is only acceptable in Programming Mode.

Note :
It takes dozens of seconds.

<COMMAND BPL>

Get/Set Band Plan

Controller → Radio

- ① BPL[✕r]
- ② BPL,[PLAN][✕r]

Radio → Controller

- ① BPL,[PLAN][✕r]
- ② BPL,OK[✕r]

[PLAN] : Band Plan (0:USA / 1:Canada)

This command is only acceptable in Programming Mode.
Band Plan setting affects frequency step. Issue this command before frequency programming.

<COMMAND KBP>

Get/Set Key Beep and setting

Controller → Radio

- ① KBP[✕r]
- ② KBP,[LEVEL],[LOCK][✕r]

Radio → Controller

- ① KBP,[LEVEL],[LOCK][✕r]
- ② KBP,OK[✕r]

[LEVEL] : Beep Level (0:Auto / 99:OFF)
[LOCK] : Key Lock status (0:OFF / 1:ON)

Get/Set Key Beep Setting.
This command is only acceptable in Programming Mode.

<COMMAND PRI>

Get/Set Priority Mode

Controller → Radio

- ① PRI[$\%r$] : Get Priority Mode Setting
- ② PRI,[PRI_MODE][$\%r$]

Radio → Controller

- ① PRI,[PRI_MODE][$\%r$]
- ② PRI,OK[$\%r$]

[PRI_MODE] : Priority Setting (0:OFF / 1:ON / 2:PLUS ON / 3:DND)

Get/Set Priority Mode.

This command is only acceptable in Programming Mode.

<COMMAND SCG>

Get/Set SCAN Channel Group

Controller → Radio

- ① SCG[$\%r$]
- ② SCG,#####[$\%r$]

Radio → Controller

- ① SCG,#####[$\%r$]
- ② SCG,OK[$\%r$]

(each # is 0 or 1) : 0 : valid / 1 : invalid

The Order of Range is as same as LCD Icon (1 – 9,0).

Get/Set current status of the channel storage bank select.

This command is only acceptable in Programming Mode.

<COMMAND DCH>

Delete Channel

Controller → Radio

- ① DCH,[INDEX][$\%r$]

Radio → Controller

- ① DCH,OK[$\%r$]

[INDEX] : Channel Index(1-500) ex) CH1 = 1

This command deletes a Channel.

This command is only acceptable in Programming Mode.

<COMMAND CIN>
Get/Set Channel Info

Controller → Radio

- ① CIN,[INDEX][¥r]
- ② CIN,[INDEX],[NAME],[FRQ],[MOD],[CTCSS/DCS],[DLY],[LOUT],[PRI][¥r]

Radio → Controller

- ① CIN,[INDEX],[NAME],[FRQ],[MOD],[CTCSS/DCS],[DLY],[LOUT],[PRI][¥r]
- ② CIN,OK[¥r]

[INDEX]	:	Channel Index(1-500)
[NAME]	:	Name (max.16char)
[FRQ]	:	Channel Frequency ex) 290000
[MOD]	:	Modulation (AUTO/AM/FM/NFM)
[CTCSS/DCS]	:	CTCSS/DCS Status (0-231)
		*See CTCSS/DCS CODE LIST about the details of this code.
[DLY]	:	Delay Time (-10,-5,0,1,2,3,4,5)
[LOUT]	:	Lockout (0:Unlocked / 1:Lockout)
[PRI]	:	Priority (0:OFF / 1:ON)

Get/Set Channel Information.
In set command, only "," parameters are not changed.
The set command is aborted if any format error is detected.
This command is only acceptable in Programming Mode.

<COMMAND SCO>
Get/Set Search/Close Call Settings

Controller → Radio

- ① SCO[¥r]
- ② SCO,[DLY],[CODE_SRCH][¥r]

Radio → Controller

- ① SCO,[DLY],[CODE_SRCH][¥r]
- ② SCO,OK[¥r]

[DLY]	:	Delay Time (-10,-5,0,1,2,3,4,5)
[CODE_SRCH]	:	CTCSS/DCS Search (0:OFF / 1:ON)

Get/Set Search/Close Call Settings.
In set command, only "," parameters are not changed.
The set command is aborted if any format error is detected.
This command is only acceptable in Programming Mode.

<COMMAND GLF>
Get Global Lockout Freq

Controller → Radio

- ① GLF[¥r]
- ② GLF,[**][¥r]

Radio → Controller

- ① GLF,[FRQ][¥r]
GLF,-1[¥r]
- ② GLF,OK[¥r]

[FRQ]	:	Lockout Frequency (0250000-5120000)
[**]	:	Don't care (to retrieve 1'st L/O frequency)

This command is used to get Global L/O frequency list.
You should call this command again and again to get all-global L/O frequency until the scanner returns "-1".
"-1" means that no more L/O frequency exists.

< BC125AT OPERATION SPECIFICATION >

<COMMAND ULF>

Unlock Global L/O

Controller → Radio

① ULF,[FRQ][¥r]

Radio → Controller

① ULF,OK[¥r]

[FRQ] : Lockout Frequency (250000-5120000)

This command unlocks a L/O frequency.
The frequency is deleted from L/O list.

<COMMAND LOF >

Lock Out Frequency

Controller → Radio

① LOF,[FRQ][¥r]

Radio → Controller

① LOF,OK[¥r]

[FRQ] : Frequency (250000-5120000)

This command locks out a frequency.
The frequency is added to L/O list.
This command is only acceptable in Programming Mode.

<COMMAND CLC>

Get/Set Close Call Settings

Controller → Radio

① CLC[¥r]

② CLC,[CC_MODE],[ALTB],[ALTL],[CC_BAND],[LOUT][¥r]

Radio → Controller

① CLC,[CC_MODE],[ALTB],[ALTL],[CC_BAND],[LOUT][¥r]

② CLC,OK[¥r]

[CC_MODE]	: Mode	(0:OFF / 1:CC PRI / 2:CC DND / 3:CC ONLY)
[ALTB]	: Alert Beep	(0:OFF / 1:ON)
[ALTL]	: Alert Light	(0:OFF / 1:ON)
[CC_BAND]	: Close Call Band	(5digit #####)
	(each # is 0 or 1)	
	0 means OFF	
	1 means ON	
		+---- UHF
		+---- MILITARY AIR
		+---- VHF HIGH
		+---- CIVIL AIR
		+----- VHF LOW

[LOUT] : Lockout for CC Hits with Scan (0:Lockout / 1:Unlocked)

Get/Set Close Call Settings.
In set command, only ", " parameters are not changed.
The set command is aborted if any format error is detected.
This command is only acceptable in Programming Mode.

<COMMAND SSG>
Get/Set Service Search Group

Controller → Radio

- ① SSG[¥r]
- ② SSG,#####[¥r] : Status of Each Search Range

Radio → Controller

- ① SSG,#####[¥r]
- ② SSG,OK[¥r]

```
##### (each # is 0 or 1)      :      0 : valid / 1 : invalid
||| | | | | | | | | |
||| | | | | | | | | | |
||| | | | | | | | | | | +----- Racing
||| | | | | | | | | | | +----- FRS/GMRS/MURS
||| | | | | | | | | | | +----- CB Radio
||| | | | | | | | | | | +----- Military Air
||| | | | | | | | | | | +----- Civil Air
||| | | | | | | | | | | +----- Railroad
||| | | | | | | | | | | +----- Marine
||| | | | | | | | | | | +----- Ham Radio
||| | | | | | | | | | | +----- Fire/Emergency
||| | | | | | | | | | | +----- Police
```

The Order of Range is as same as LCD Icon (1 – 9,0).
Get/Set current status of the Service Search Bank.
This command is only acceptable in Programming Mode.

<COMMAND CSG>
Get/Set Custom Search Group

Controller → Radio

- ③ CSG[¥r]
- ④ CSG,#####[¥r] : Status of Each Search Range

Radio → Controller

- ③ CSG,#####[¥r]
- ④ CSG,OK[¥r]

(each # is 0 or 1) : 0 : valid / 1 : invalid

The Order of Range is as same as LCD Icon (1 – 9,0).
Get/Set current status of the custom search range.
This command is only acceptable in Programming Mode.

<COMMAND CSP>
Get/Set Custom Search Settings

Controller → Radio

- ① CSP,[SRCH_INDEX][¥r]
- ② CSP,[SRCH_INDEX],[LIMIT_L],[LIMIT_H][¥r]

Radio → Controller

- ① CSP,[SRCH_INDEX],[LIMIT_L],[LIMIT_H],[¥r]
- ② CSP,OK[¥r]

```
[SRCH_INDEX] : Index          (1-10)
[LIMIT_L]    : Lower Limit Frequency (250000-5120000)
[LIMIT_H]    : Upper Limit Frequency (250000-5120000)
```

Get/Set Custom Search Settings.
In set command, only ", " parameters are not changed.
The set command is aborted if any format error is detected.
This command is only acceptable in Programming Mode.

<COMMAND WXS>

Get/Set Weather Settings

Controller → Radio

- ① WXS[\neq r]
- ② WXS,[ALT_PRI][\neq r]

Radio → Controller

- ① WXS,[ALT_PRI][\neq r]
- ② WXS,OK[\neq r]

[ALT_PRI] : Weather Alert Priority (0:OFF / 1:ON)

Get/Set Weather Priority Settings.
This command is only acceptable in Programming Mode.

<COMMAND CNT>

Get/Set LCD Contrast Settings

Controller → Radio

- ① CNT[\neq r]
- ② CNT,[CONTRAST][\neq r]

Radio → Controller

- ① CNT,[CONTRAST][\neq r]
- ② CNT,OK[\neq r]

[CONTRAST] : LCD Contrast (1 - 15)

The default value is set when the set value is outside the range (1-15).

Get/Set LCD Contrast Settings.
This command is only acceptable in Programming Mode.

<COMMAND VOL>

Get/Set Volume Level Settings

Controller → Radio

- ① VOL[\neq r]
- ② VOL,[LEVEL][\neq r]

Radio → Controller

- ① VOL,[LEVEL][\neq r]
- ② VOL,OK[\neq r]

[LEVEL] : Volume Level (0 - 15)

<COMMAND SQL>

Get/Set Squelch Level Settings

Controller → Radio

- ① SQL[\neq r]
- ② SQL,[LEVEL][\neq r]

Radio → Controller

- ① SQL,[LEVEL][\neq r]
- ② SQL,OK[\neq r]

[LEVEL] : Squelch Level (0:OPEN / 1-14 / 15:CLOSE)

< BC125AT OPERATION SPECIFICATION >

CTCSS/DCS CODE LIST

NONE / SEARCH

MODE	CODE	MODE	CODE	MODE	CODE
NONE / All	0	SEARCH	127	NO_TONE	240

CTCSS

MODE	CODE	MODE	CODE	MODE	CODE
CTCSS 67.0Hz	64	CTCSS 114.8Hz	80	CTCSS 179.9Hz	97
CTCSS 69.3Hz	65	CTCSS 118.8Hz	81	CTCSS 183.5Hz	98
CTCSS 71.9Hz	66	CTCSS 123.0Hz	82	CTCSS 186.2Hz	99
CTCSS 74.4Hz	67	CTCSS 127.3Hz	83	CTCSS 189.9Hz	100
CTCSS 77.0Hz	68	CTCSS 131.8Hz	84	CTCSS 192.8Hz	101
CTCSS 79.7Hz	69	CTCSS 136.5Hz	85	CTCSS 196.6Hz	102
CTCSS 82.5Hz	70	CTCSS 141.3Hz	86	CTCSS 199.5Hz	103
CTCSS 85.4Hz	71	CTCSS 146.2Hz	87	CTCSS 203.5Hz	104
CTCSS 88.5Hz	72	CTCSS 151.4Hz	88	CTCSS 206.5Hz	105
CTCSS 91.5Hz	73	CTCSS 156.7Hz	89	CTCSS 210.7Hz	106
CTCSS 94.8Hz	74	CTCSS 159.8Hz	90	CTCSS 218.1Hz	107
CTCSS 97.4Hz	75	CTCSS 162.2Hz	91	CTCSS 225.7Hz	108
CTCSS 100.0Hz	76	CTCSS 165.5Hz	92	CTCSS 229.1Hz	109
CTCSS 103.5Hz	77	CTCSS 167.9Hz	93	CTCSS 233.6Hz	110
CTCSS 107.2Hz	78	CTCSS 171.3Hz	94	CTCSS 241.8Hz	111
CTCSS 110.9Hz	79	CTCSS 173.8Hz	95	CTCSS 250.3Hz	112
		CTCSS 177.3Hz	96	CTCSS 254.1Hz	113

DCS

MODE	CODE	MODE	CODE	MODE	CODE
DCS 023	128	DCS 223	163	DCS 446	199
DCS 025	129	DCS 225	164	DCS 452	200
DCS 026	130	DCS 226	165	DCS 454	201
DCS 031	131	DCS 243	166	DCS 455	202
DCS 032	132	DCS 244	167	DCS 462	203
DCS 036	133	DCS 245	168	DCS 464	204
DCS 043	134	DCS 246	169	DCS 465	205
DCS 047	135	DCS 251	170	DCS 466	206
DCS 051	136	DCS 252	171	DCS 503	207
DCS 053	137	DCS 255	172	DCS 506	208
DCS 054	138	DCS 261	173	DCS 516	209
DCS 065	139	DCS 263	174	DCS 523	210
DCS 071	140	DCS 265	175	DCS 526	211
DCS 072	141	DCS 266	176	DCS 532	212
DCS 073	142	DCS 271	177	DCS 546	213
DCS 074	143	DCS 274	178	DCS 565	214
DCS 114	144	DCS 306	179	DCS 606	215
DCS 115	145	DCS 311	180	DCS 612	216
DCS 116	146	DCS 315	181	DCS 624	217
DCS 122	147	DCS 325	182	DCS 627	218
DCS 125	148	DCS 331	183	DCS 631	219
DCS 131	149	DCS 332	184	DCS 632	220
DCS 132	150	DCS 343	185	DCS 654	221
DCS 134	151	DCS 346	186	DCS 662	222
DCS 143	152	DCS 351	187	DCS 664	223
DCS 145	153	DCS 356	188	DCS 703	224
DCS 152	154	DCS 364	189	DCS 712	225
DCS 155	155	DCS 365	190	DCS 723	226
DCS 156	156	DCS 371	191	DCS 731	227
DCS 162	157	DCS 411	192	DCS 732	228
DCS 165	158	DCS 412	193	DCS 734	229
DCS 172	159	DCS 413	194	DCS 743	230
DCS 174	160	DCS 423	195	DCS 754	231
DCS 205	161	DCS 431	196		
DCS 212	162	DCS 432	197		
		DCS 445	198		