

# UNIDEN PROGRAMMING CONTROL CODES FOR USE WITH UNIDEN SCANNERS

## *End User License Agreement* UNIDEN AMERICA CORPORATION

**NOTICE TO USER:** THIS END USER LICENSE AGREEMENT ("EULA") IS A LEGAL AGREEMENT BETWEEN YOU AND UNIDEN. PLEASE READ THIS CAREFULLY BEFORE USING THE UNIDEN CODE. BY CLICKING THE " I AGREE TO THE TERMS OF THIS LICENSE AGREEMENT ", OR BY USING ALL OR ANY PORTION OF THE UNIDEN CODE, YOU ARE CONFIRMING YOUR ACCEPTANCE OF THE UNIDEN CODE AND ALL THE TERMS AND CONDITIONS OF THIS AGREEMENT. IF YOU DO NOT AGREE, DO NOT USE THE UNIDEN CODE. CLICK THE " I DO NOT AGREE TO THE TERMS OF THIS LICENSE AGREEMENT " FOR THE INSTALLATION PROCESS TO TERMINATE.

### **1. DEFINITIONS**

- (A) "Uniden Code" means Uniden proprietary programming codes and commands used to control Uniden's scanner products.
- (B) "Use" or "Using" means to access, install, download, copy or otherwise benefit from using the functionality of the Uniden Code.
- (C) "Computer" means an electronic device that accepts information in digital or similar form and manipulates it for a specific result based on a sequence of instructions.
- (D) "Uniden" means Uniden America Corporation, a Delaware corporation, located at 4700 Amon Carter Boulevard, Fort Worth, Texas 76155, and its licensors, if any.

### **2. UNIDEN CODE LICENSE GRANTS**

- (A) You may utilize the Uniden Code on an "as is", at-will, royalty-free, personal, non-assignable, non-exclusive basis solely for the purpose of creating software or firmware products intended to extend the functionality of Uniden scanner products, or provide compatibility of Uniden scanner products with a PC or other control devices.
- (B) You agree that the Uniden Code will not be used to create a competing scanner product.

- (C) You agree not to use the Uniden Code functionality for purposes other than to control one or more of the Uniden scanner models to which the codes apply.
- (D) You acknowledge that the Uniden Code is provided “as-is” and that Uniden has no obligation to provide any additional support in the use of the Uniden Code beyond the disclosed documentation.
- (E) User acknowledges that, while reasonable efforts have been taken to ensure accuracy in the supplied documentation, said documents have been subjected to one or more translation stages that might have resulted in unclear, inaccurate, or incomplete information and that Uniden is under no obligation to correct or clarify supplied documentation of the Uniden Code.
- (F) You acknowledge that the Uniden Code is the sole property of Uniden.
- (G) You agree that the Uniden Code, documentation thereof and the related information provided by Uniden are confidential and proprietary information of Uniden (collectively “Uniden Confidential Information”).
- (H) You agree to mark any software containing all or part of the Uniden Code, and the written user materials accompanying units that incorporate Uniden Code with notices indicating, “This product contains Uniden proprietary and/or copyright control codes. Used with permission.”
- (I) You agree that this EULA does not need to be signed for it to take effect.
- (J) You agree to use the Uniden Code in its regular and proper manner.
- (K) You acknowledge that Uniden may update, modify or revise the Uniden Code at any time and shall not be obligated to provide such updates, modifications or revisions to you.
- (L) You acknowledge that the permission granted herein does not constitute endorsement by Uniden of any software or firmware products you may create in accordance with the purpose stated in section A herein; and you are solely responsible for the configuration of said software or firmware and/or any service matters relating to said software or firmware and/or any Uniden Code used with said software or firmware.
- (M) This license is personal to you and you may make copies of the Uniden Code only for your personal use.

- (N) You agree that Uniden may audit your use of the Uniden Code for compliance with these terms at any time.
- (O) You agree and represent that any products you create which incorporate the Uniden Code are in compliance with all applicable laws.
- (P) You shall defend, indemnify and hold harmless Uniden, its subsidiaries and affiliates, and all agents, employees, officers and directors of Uniden, its subsidiaries and affiliates, from all expenses, losses, costs, damages or liability (including reasonable attorneys' fees and court costs and expenses) arising out of or in connection with any claim or action in connection with the use of any products you create which incorporate the Uniden Code.

### **3. LICENSE RESTRICTIONS**

- (A) Other than as set forth in Section 2 of this EULA, you may not make or distribute copies of the Uniden Code, or electronically transfer the Uniden Code from one computer to another or over a network.
- (B) You may not alter, merge, modify, adapt or translate the Uniden Code, or decompile, reverse engineer, disassemble, or otherwise reduce the Uniden Code to a human-perceivable form.
- (C) You may not sell, rent, lease, assign or sublicense the Uniden Code.
- (D) You may not modify the Uniden Code or create derivative works based upon the Uniden Code.
- (E) You may not export the Uniden Code into any country prohibited by the United States Export Administration Act and the regulations thereunder.
- (F) In the event that you fail to comply with this EULA, Uniden may terminate the license and you must destroy all copies of the Uniden Code (with all other rights of both parties and all other provisions of this EULA surviving any such termination).

### **4. OWNERSHIP**

The foregoing license gives you limited license to use the Uniden Code. Uniden retains all right, title and interest, including all copyright and intellectual property rights, in and to, the Uniden Code or any derivative works, including but not limited to the structure and organization of the Uniden Code, and all copies thereof. All rights not specifically granted in this EULA, including Federal and

International Copyrights, are reserved by Uniden. Uniden reserves the right to terminate this license at any time.

## **5. WARRANTY DISCLAIMER**

- (A) THE UNIDEN CODE IS PROVIDED TO YOU ON AN "AS-IS" BASIS. UNIDEN PROVIDES NO TECHNICAL SUPPORT OR WARRANTIES FOR THE UNIDEN CODE.
- (B) UNIDEN AND ITS SUPPLIERS DISCLAIM ALL WARRANTIES AND REPRESENTATIONS (EXPRESS OR IMPLIED WHETHER BY STATUTE, COMMON LAW, CUSTOM, USAGE OR OTHERWISE) INCLUDING THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALSO, THERE IS NO WARRANTY OF SATISFACTORY QUALITY, INTEGRATION, NON-INFRINGEMENT OF THIRD PARTY RIGHTS AND TITLE OR QUIET ENJOYMENT. UNIDEN DOES NOT WARRANT THAT THE UNIDEN CODE IS ERROR-FREE OR WILL OPERATE WITHOUT INTERRUPTION. NO RIGHTS OR REMEDIES REFERRED TO IN ARTICLE 2A OF THE UCC WILL BE CONFERRED ON YOU UNLESS EXPRESSLY GRANTED HEREIN.
- (C) IF APPLICABLE LAW REQUIRES ANY WARRANTIES WITH RESPECT TO THE UNIDEN CODE, ALL SUCH WARRANTIES ARE LIMITED IN DURATION TO THIRTY (30) DAYS FROM THE DATE OF DELIVERY.
- (D) NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY UNIDEN, ITS DEALERS, SUPPLIERS, DISTRIBUTORS, AGENTS OR EMPLOYEES SHALL CREATE A WARRANTY OR IN ANY WAY INCREASE THE SCOPE OF ANY WARRANTY PROVIDED HEREIN.

## **6. LIMITATION OF LIABILITY**

- (A) NEITHER UNIDEN NOR ITS SUPPLIERS SHALL BE LIABLE TO YOU OR ANY THIRD PARTY FOR ANY INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, COVER OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR THE INABILITY TO USE EQUIPMENT OR ACCESS DATA, LOSS OF BUSINESS, LOSS OF PROFITS, BUSINESS INTERRUPTION OR THE LIKE), ARISING OUT OF THE USE OF, OR INABILITY TO USE, THE UNIDEN CODE AND BASED ON ANY THEORY OF LIABILITY INCLUDING BREACH OF CONTRACT, BREACH OF WARRANTY, TORT (INCLUDING NEGLIGENCE), PRODUCT LIABILITY OR OTHERWISE, EVEN IF UNIDEN OR ITS REPRESENTATIVES HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES AND EVEN IF A REMEDY SET

FORTH HEREIN IS FOUND TO HAVE FAILED OF ITS ESSENTIAL PURPOSE.

- (B) UNIDEN'S TOTAL LIABILITY TO YOU FOR ACTUAL DAMAGES FOR ANY CAUSE WHATSOEVER WILL BE LIMITED TO THE GREATER OF \$10 OR THE AMOUNT PAID BY YOU FOR THE UNIDEN CODE THAT CAUSED SUCH DAMAGE.
- (C) THE FOREGOING LIMITATIONS ON LIABILITY ARE INTENDED TO APPLY TO THE WARRANTIES AND DISCLAIMERS ABOVE AND ALL OTHER ASPECTS OF THIS EULA.

## **7. COMPLIANCE WITH LAWS**

Uniden and its affiliates, which offer the Uniden Code to you, are headquartered in the United States. Uniden makes no representation that the Uniden Code is appropriate or legal for use inside or outside the United States. You are responsible for all compliance with your local laws, and use of the Uniden Code where illegal is expressly prohibited.

## **8. GOVERNING LAW AND VENUE**

This EULA shall be interpreted, construed and governed by the laws of the State of Texas, USA, without reference to its laws relating to conflicts of law and not including the provisions of the 1980 United Nations Convention on Contracts for the International Sale of Goods. Venue for all disputes arising under this Agreement shall lie exclusively in the District Courts of the State of Texas in Tarrant County or the Federal District Courts of the Northern District of Texas (as permitted by law) and each party agrees not to contest the personal jurisdiction of these courts. Notwithstanding the foregoing, however, Uniden shall have the right to commence and prosecute any legal or equitable action or proceeding before any non-US court of competent jurisdiction to obtain injunctive or other relief in the event that, in the opinion of Uniden, such action is necessary or desirable.

## **9. GENERAL PROVISIONS.**

This EULA contains the complete agreement between the parties with respect to the subject matter hereof, and supersedes all prior or contemporaneous agreements or understandings, whether oral or written. You agree that any varying or additional terms contained in any purchase order or other written notification or document issued by you in relation to the Uniden Code licensed hereunder shall be of no effect. The failure or delay of Uniden to exercise any of its rights under this EULA or upon any breach of this EULA shall not be deemed a waiver of those rights or of the breach.

If any provision of this EULA shall be held by a court of competent jurisdiction to be contrary to law, that provision will be enforced to the maximum extent permissible, and the remaining provisions of this EULA will remain in full force and effect.

All questions concerning this EULA shall be directed to: Uniden America Corporation, 4700 Amon Carter Boulevard, Fort Worth, Texas 76155.

UNIDEN and other trademarks contained in the Uniden Code are trademarks or registered trademarks of Uniden America Corporation in the United States and/or other countries. You may not remove or alter any trademark, trade names, product names, logo, copyright or other proprietary notices, legends, symbols or labels in the Uniden Code. This EULA does not authorize you to use the UNIDEN name or any of their respective trademarks.

Trademarks and registered trademarks:

All products or service names mentioned in the Uniden Code are trademarks or registered trademarks of Uniden America Corporation.

Copyright © 2003-2004

Uniden America Corporation

ALL RIGHTS RESERVED

## 7.11. REMOTE COMMAND

### 【 Remote Communication Format 】

BPS rate : 9600/19200/38400/57600 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]
  - 3) Framing error : FER[¥r]
  - 4) Overrun error : ORER[¥r]
4. [¥r] means "to hit the Enter key" or "to send the Return code".
5. Several commands or responses with long format are described like multi-line because of the page width but their formats are only single line, actually.
6. In set command, only "," parameters are not changed.
7. The set command is aborted if any format error is detected.
8. [INDEX] or [xxx\_INDEX] is the index of internal memory chain. Dynamic Memory Allocation Structure always uses it as a handle to access data and to trace forward/reverse or up/down index. The range of the index is from 1 to maximum memory block (about 3000).

9. [FRQ], [BASEx] and [LIMIT\_x] are frequency format.  
It is showed by 8digit number without decimal point.  
The order of the digits is from 1 GHz digit to 100 Hz digit.  
ex. 08510125 means 851.0125MHz
10. [TGID] shows TGID format. The formats depend on Trunked System Type.  
See another Appendix to get further information.
11. [NAME] shows each custom name. If user set only space character, the name will return to default name.

Remote Command List

	Category	Command	Function	Program Mode Only
1	Remote Control	GID	Get Current Talkgroup ID Status	
2		KEY	Push KEY	
3		POF	Power OFF	
4		QSH	Go to quick search hold mode	
5		STS	Get Status	
6	System information	MDL	Get Model Info	
7		VER	Get Firmware Version	
8	Programming Mode	PRG	Enter Program Mode	
9	Control	EPG	Exit Program Mode	
10	System Settings	BLT	Get/Set Backlight	○
11		BSV	Get/Set Battery Save	○
12		CLR	Clear All Memory	○
13		KBP	Get/Set Key Beep	○
14		OMS	Get/Set Opening Message	○
15		PRI	Get/Set Priority Mode	○
16	Scan Settings	SCT	Get System Count	○
17		SIH	Get System Index Head	○
18		SIT	Get System Index Tail	○
19		QSL	Get/Set System Quick Lockout	○
20		QGL	Get/Set Group Quick Lockout	○
21		CSY	Create System	○
22		DSY	Delete System	○
23		CPS	Copy System	○
24		SIN	Get/Set System Info	○
25		TRN	Get/Set Trunk Info	○
26		TFQ	Get/Set Trunk Frequency Info	○
27		AGC	Append Channel Group	○
28		AGT	Append TGID Group	○
29		DGR	Delete Group	○
30	GIN	Get/Set Group Info	○	



< BC246T Operation Specification >

	Category	Command	Function	Program Mode Only	
31	Scan Settings (Continuation)	ACC	Append Channel	○	
32		ACT	Append TGID	○	
33		DCH	Delete Channel	○	
34		CIN	Get/Set Channel Info	○	
35		TIN	Get/Set TGID Info	○	
36		GLI	Get Lockout TGID (for Rvw L/O ID)	○	
37		ULI	Unlock TGID (for Rvw L/O ID)	○	
38		LOI	Lock Out ID (TGID)	○	
39		REV	Get Rev Index	○	
40		FWD	Get Fwd Index	○	
41		RMB	Get Remains of Memory Block	○	
42		MEM	Get Memory Used	○	
42		Search/Close Call Settings	SCO	Get/Set Search/Close Call Settings	○
43			GLF	Get Global Lockout Freq	○
44	ULF		Unlock Global L/O	○	
45	LOF		Lock Out Frequency	○	
46	CLC		Get/Set Close Call Settings	○	
47	Custom Search Settings	CSG	Get/Set Custom Search Group	○	
48		CSP	Get/Set Custom Search Settings	○	
49	Weather Settings	WPR	Get/Set Weather Priority Setting	○	
50		SGP	Get/Set SAME Group Settings	○	
51	Test	WIN	*Get Window Voltage		
52		BAV	*Get Battery Voltage		

---

---

<COMMAND GID>  
Get Current Talkgroup ID Status

---

---

Controller → Radio

①GID[¥r]

Radio → Controller

①

GID, [SYS\_TYPE], [TGID], [ID\_SRCH\_MODE], [NAME1], [NAME2], [NAME3] [¥r]

[SYS\_TYPE] : System Type

[TGID] : TGID

[ID\_SRCH\_MODE]

0: ID:SCAN mode

1: ID:SEARCH mode

[NAME1] : SYSTEM NAME (Alpha Tag)

[NAME2] : GROUP NAME (Alpha Tag)

[NAME3] : TGID NAME (Alpha Tag)

#### FUNCTION

This command returns TGID currently displayed on LCD.

#### NOTE

This command returns , , , , , [¥r], when TGID is not displayed.

---

---

<COMMAND KEY>

Push KEY

---

---

Controller → Radio

①KEY, [KEY\_CODE], [KEY\_MODE] [¥r]

Radio → Controller

①KEY, OK[¥r]

[KEY_CODE]	M	:	MENU	
	F	:	F	
	H	:	HOLD	
	S	:	SCAN/SEARCH	
	L	:	L/O	
	!	:	LIGHT/LOCK	
	1	:	1/PRI	
	2	:	2/WX	
	3	:	3	
	4	:	4	
	5	:	5	
	6	:	6	
	7	:	7/RCL	
	8	:	8	
	9	:	9	
	0	:	0	
	.	(dot)	./NO/REV	
	E	:	E/YES/ATT	
	>	:	VFO RIGHT	* Set "P" to KEY_MODE.
	<	:	VFO LEFT	* Set "P" to KEY_MODE.
	^	:	VFO PUSH	
	P	:	POWER	

[KEY_MODE]	P	:	Press (One Push)
	L	:	Long Press (Press and Hold a few second)
	H	:	Hold (Press and Hold until Release receive)
	R	:	Release (Cancel Hold state)

Ex. 1) Press MENU KEY

→ KEY, M, P[¥r]

← OK[¥r]

Ex. 2) Press F + SCAN KEY

→ KEY, F, H[¥r] : Hold F KEY

← OK[¥r]

→ KEY, S, P[¥r] : Press SCAN KEY (F + SCAN KEY operation)

← OK[¥r]

→ KEY, F, R[¥r] : Release F KEY

→ OK[¥r]

Ex. 3) Press and Hold L/O KEY

→ KEY, L, L[¥r]

← OK[¥r]

The Scanner is not turned off by this command.

---

---

<COMMAND POF>

Power OFF

---

---

Controller → Radio

①POF[¥r]

Radio → Controller

①POF, OK[¥r]

Turns off the scanner.

After this command, the scanner doesn't accept any command.

---

---

<COMMAND QSH>

Go to quick search hold mode

---

---

Controller → Radio

QSH, [FRQ], [STP], [MOD], [ATT], [DLY], [SKP], [CODE\_SRCH], [PGR], [REP] [¥r]

Radio → Controller

①QSH, OK[¥r]

[FRQ] : Frequency (The right frequency)

[STP] : Search Step

(0, 500, 625, 750, . . . . , 5000, 10000, 20000)

0 : AUTO

500 : 5k

625 : 6.25k

750 : 7.5k

1000 : 10k

1250 : 12.5k

1500 : 15k

2000 : 20k

2500 : 25k

5000 : 50k

10000 : 100k

[MOD] : Modulation (AUTO/FM/NFM/AM)

[ATT] : Attenuation (0:OFF / 1:ON)

[DLY] : Delay Time (0-5)

[SKP] : Data Skip (0:OFF / 1:ON)

[CODE\_SRCH] : CTCSS/DCS Search (0:OFF / 1:ON)

[PGR] : Pager Screen (0:OFF / 1:ON)

[REP] : Repeater Find (0:OFF / 1:ON)

②QSH, NG[¥r]

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

FUNCTION

SS specifies arbitrary frequency and changes to Quick Search Hold (VFO) mode.  
Parameter, such as STP, changes the contents of Srch/CloCall option.

<COMMAND STS>  
Get Current Status

Controller → Radio  
①STS[¥r]

Radio → Controller  
①STS, [L1\_CHAR], [L1\_MODE], [L2\_CHAR], [L2\_MODE], [ICON1], [ICON2], [RESERVE],  
[SQL], [MUT], [BAT], [WAT] [¥r]

[L1_CHAR]	:	Line1 Characters 16char (fixed length)
[L1_MODE]	:	Line1 Display Mode 16char
[L2_CHAR]	:	Line1 Characters 16char (fixed length)
[L2_MODE]	:	Line1 Display Mode 16char
[ICON1]	:	Icon1 Group Display Mode 15char
[ICON2]	:	Icon2 Group Display Mode 17char
[RESERVE]	:	(Reserved area, not used)
[SQL]	:	Squelch Status (0:CLOSE / 1:OPEN)
[MUT]	:	Mute Status (0:OFF / 1:ON)
[BAT]	:	Battery Low Status (0:No Alert / 1:Alert)
[WAT]	:	Weather Alert Status 0: No Alert 1: Alert

\$\$\$ : Alert SAME CODE (SAME EVENT CODE)

NOTE: Line1 or Line2 Characters may include “,” as displayed character.

Display Mode for Line1 or Line2  
 (space) : NORMAL CHAR, \_ (under bar) : CURSOR POINT  
 \* : REVERSE CHAR, # : BLINK CHAR

Display Mode for Icon1 or Icon2 Group (0:OFF / 1:ON / 2:BLINK)

ICON1 Group and Order: SYS /1/2/3/4/5/6/7/8/9/0 / ATT / PRI / KEYLOCK / BATT

ICON2 Group and Order: GRP /1/2/3/4/5/6/7/8/9/0 / AM / N / FM / L/O / F / CC

Ex) → STS[¥r]  
 ← System A  
 “ 851.0125MHz ”, #####,  
 11201111111000, 11111111000011000, ,  
 1, 0, 0, 0[¥r]

System A	
“851.0125MHz ”	(L1:BLINK)
SYS 12 4567890 ATT	(2 :BLINK)
GRP 1234567 NFM	

Scan Mode  
 Squelch OPEN  
 Mute OFF  
 No Battery Alert  
 No Weather Alert

Returns current scanner status.

---

---

<COMMAND MDL>  
Get Model Info

---

---

Controller → Radio  
①MDL[¥r]

Radio → Controller  
①MDL, BC246T[¥r]

Returns Model Information.

---

---

<COMMAND VER>  
Get Firmware Version

---

---

Controller → Radio  
①VER[¥r]

Radio → Controller  
①VER, VR1.00[¥r]

Returns Firmware Version.

---

---

<COMMAND PRG>  
Enter Program Mode

---

---

Controller → Radio  
①PRG[¥r]

Radio → Controller  
①PRG, OK[¥r]

②PRG, 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 upper line and "Keypad Lock" on lower line in Program Mode.

And POWER key and Function key are valid in Program Mode.

---

---

<COMMAND EPG>  
Exit Program Mode

---

---

Controller → Radio  
①EPG[¥r]

Radio → Controller  
①EPG, OK[¥r]

The Scanner exits from Program Mode.

Then the Scanner goes to Scan Hold Mode.

---

---

<COMMAND BLT>  
Get/Set Backlight

---

---

Controller → Radio

- ①BLT[¥r] : Get Backlight Setting
- ②BLT,##[¥r] : Set Backlight Setting

Radio → Controller

- ①BLT,##[¥r]
- ②BLT,OK[¥r]

## means Backlight Setting  
IF : INFINITE  
10 : 10sec  
30 : 30sec  
KY : KEYPRESS  
SQ : SQUELCH

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

---

---

<COMMAND BSV>  
Get/Set Battery Save

---

---

Controller → Radio

- ①BSV[¥r] : Get Battery Save Setting
- ②BSV,#[¥r] : Set Battery Save Setting

Radio → Controller

- ①BSV,#[¥r]
- ②BSV,OK[¥r]

# means Battery Save Setting  
(0:OFF / 1:ON)

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

---

---

<COMMAND CLR>  
Clear All Memory

---

---

Controller → Radio

- ①CLR[¥r]

Radio → Controller

- ①CLR,OK[¥r]

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

Note) Needs about 10 seconds execute time.  
Only PC Control (Baud Rate) does not become an initial-setting value.

---

---

<COMMAND KBP>  
Get/Set Key Beep

---

---

Controller → Radio

- ①KBP[¥r] : Get Key Beep Setting
- ②KBP,#[¥r] : Set Key Beep Setting

Radio → Controller

- ①KBP,#[¥r]
- ②KBP,OK[¥r]

# means Key Beep Setting  
(0:OFF / 1:ON)

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

---

---

<COMMAND OMS>  
Get/Set Opening Message

---

---

Controller → Radio

- ①OMS[¥r]
- ②OMS, [L1\_CHAR], [L2\_CHAR] [¥r]

Radio → Controller

- ①OMS, [L1\_CHAR], [L2\_CHAR] [¥r]
- ②OMS,OK[¥r]

Get/Set Opening Message.  
[L1\_CHAR] : Line1 Characters (max.16char)  
[L2\_CHAR] : Line2 Characters (max.16char)

If only space code is set in character area,  
the message returns default message.

---

---

<COMMAND PRI>  
Get/Set Priority Mode

---

---

Controller → Radio

- ①PRI[¥r] : Get Priority Mode Setting
- ②PRI,#[¥r] : Set Priority Mode Setting

Radio → Controller

- ①PRI,#[¥r]
- ②PRI,OK[¥r]

# means Priority Setting  
(0:OFF / 1:ON, 2:PLUS ON)

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



---

---

<COMMAND SCT>  
Get System Count

---

---

Controller → Radio  
①SCT[¥r]  
Radio → Controller  
①SCT, ###[¥r] : ### (0-200)

Returns the number of stored System.  
This command is only acceptable in Programming Mode.

---

---

<COMMAND SIH>  
Get System Index Head

---

---

Controller → Radio  
①SIH[¥r]  
Radio → Controller  
①SIH, [SYS\_INDEX] [¥r]

Returns the first index of stored system list.  
This command is only acceptable in Programming Mode.

---

---

<COMMAND SIT>  
Get System Index Tail

---

---

Controller → Radio  
①SIT[¥r]  
Radio → Controller  
①SIT, [SYS\_INDEX] [¥r]

Returns the last index of stored system list.  
This command is only acceptable in Programming Mode.

---

---

<COMMAND QSL>  
Get/Set System Quick Lockout

---

---

Controller → Radio  
①QSL[¥r]  
②QSL, ##### [¥r]  
Radio → Controller  
①QSL, ##### [¥r]  
②QSL, OK [¥r]

Returns the System Quick Key status.  
: ##### (each # is 0 or 1)  
0 means OFF  
1 means ON  
The Order of Quick Key is as same as LCD Icon.

< BC246T Operation Specification >

This command is only acceptable in Programming Mode.  
It cannot turn on/off the Quick Key that has no System.

---

---

<COMMAND QGL>

Get/Set Group Quick Lockout

---

---

Controller → Radio

- ①QGL, [SYS\_INDEX], [¥r]
- ②QGL, [SYS\_INDEX], ##### [¥r]

Radio → Controller

- ①QGL, ##### [¥r]
- ②QGL, OK [¥r]

Returns Group Quick Key status of current System.

: ##### (each # is 0 or 1)

0 means OFF

1 means ON

The Order of Quick Key is as same as LCD Icon.

This command is only acceptable in Programming Mode.

It cannot turn on/off the Quick Key that has no Group.

---

---

<COMMAND CSY>

Create System

---

---

Controller → Radio

- ①CSY, [SYS\_TYPE] [¥r]

Radio → Controller

- ①CSY, [SYS\_INDEX] [¥r]

[SYS\_TYPE] : System Type

CNV	: CONVENTIONAL
M82S	: MOT_800_T2_STD
M82P	: MOT_800_T2_SPL
M92	: MOT_900_T2
MV2	: MOT_VHF_T2
MU2	: MOT_UHF_T2
M81S	: MOT_800_T1_STD
M81P	: MOT_800_T1_SPL
EDN	: EDACS_NARROW
EDW	: EDACS_WIDE
EDS	: EDACS_SCAT
LTR	: LTR

[SYS\_INDEX] : The Index if Created System

Creates a system and returns created system index.

The index is a handle to get/set system information.

Returns -1 if the scanner failed to create because of no resource.

This command is only acceptable in Programming Mode.

---

---

<COMMAND DSY>  
Delete System

---

---

Controller → Radio  
①DSY, [SYS\_INDEX] [¥r]

Radio → Controller  
①DSY, OK [¥r]

[SYS\_INDEX] : System Index

This command deletes a System.  
This command is only acceptable in Programming Mode.

---

---

<COMMAND CPS>  
Copy System

---

---

Controller → Radio  
①CPS, [SYS\_INDEX1], [NAME] [¥r]

Radio → Controller  
①CPS, [SYS\_INDEX2] [¥r]

[SYS\_INDEX1] : The Index of Source System  
[NAME] : The Name of Copied System  
[SYS\_INDEX2] : The Index of Copied System

Copies a system.  
Returns "ERR" instead of SYS\_INDEX2 if the scanner failed to copy because of no resource.  
This command is only acceptable in Programming Mode.

---

---

<COMMAND SIN>  
Get/Set System Info

---

---

Controller → Radio  
①SIN, [INDEX] [¥r]  
②SIN, [INDEX], [NAME], [QUICK\_KEY], [HLD], [LOUT], [ATT], [DLY], [SKP], [EMG] [¥r]

Radio → Controller  
①SIN, [SYS\_TYPE], [NAME], [QUICK\_KEY], [HLD], [LOUT], [ATT], [DLY], [SKP], [EMG],  
[REV\_INDEX], [FWD\_INDEX], [CHN\_GRP\_HEAD], [CHN\_GRP\_TAIL], [SEQ\_NO] [¥r]  
②SIN, OK [¥r]

[INDEX] : System Index  
[SYS\_TYPE] : System Type  
[NAME] : Name (max. 16char)  
[QUICK\_KEY] : Quick Key (1-9, 0: means 10, . (dot): means none)  
[HLD] : System Hold Time (0-255)  
[LOUT] : Lockout (0:Unlocked / 1:Lockout)  
[ATT] : Attenuation (0:OFF / 1:ON)  
[DLY] : Delay Time (0-5)

< BC246T Operation Specification >

[SKP] : Data Skip (0:OFF / 1:ON)  
 [EMG] : Emergency Alert (0:Ignore /1:Alert)  
 [REV\_INDEX] : Reverse System Index of the Scan Setting  
 [FWD\_INDEX] : Forward System Index of the Scan Settings  
 [CHN\_GRP\_HEAD] : Channel Group Index Head of the System  
 [CHN\_GRP\_TAIL] : Channel Group Index Tail of the System  
 [SEQ\_NO] : System Sequence Number (1-200)

Get/Set System Information.  
 The scanner returns only “,” to punctuate for parameters which are not appropriate the system type.  
 In set command, the scanner neglects the parameters that are not appropriate the system type.  
 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 TRN>

Get/Set Trunk Info

=====

Controller → Radio

- ①TRN, [INDEX] [¥r]
- ②TRN, [INDEX], [ID\_SEARCH], [S\_BIT], [END\_CODE], [AFS], [I-CALL], [C-CH\_ONLY], [FMAP], [CTM\_FMAP], [BASE1], [STEP1], [OFFSET1], [BASE2], [STEP2], [OFFSET2], [BASE3], [STEP3], [OFFSET3] [¥r]

Radio → Controller

- ①TRN, [ID\_SEARCH], [S\_BIT], [END\_CODE], [AFS], [I-CALL], [C-CH\_ONLY], [FMAP], [CTM\_FMAP], [BASE1], [STEP1], [OFFSET1], [BASE2], [STEP2], [OFFSET2], [BASE3], [STEP3], [OFFSET3], [TGID\_GRP\_HEAD], [TGID\_GRP\_TAIL], [ID\_LOUT\_GRP\_HEAD], [ID\_LOUT\_GRP\_TAIL] [¥r]
- ②TRN, OK [¥r]

[INDEX] : System Index  
 [ID\_SEARCH] : ID Search/Scan (0:ID Scan mode / 1: Search Mode)  
 [S\_BIT] : Motorola Status Bit (0:Ignore, 1:Yes)  
 [END\_CODE] : Motorola End Code (0:Ignore, 1:Yes)  
 [AFS] : EDACS Format (0:Decimal / 1:AFS)  
 [I-CALL]: I-CALL (0:OFF / 1:ON)  
 [C-CH\_ONLY] : C-CH Only (0:OFF / 1:ON)  
 [FMAP] : Fleet Map (0-16, 0-15:Preset, 16:Custom)  
 [CTM\_FMAP] : Custom Fleet Map Setting (##### : # is 0-E)  
                   # means Size Code of each BLOCK (from 0 to 7)  
                   0 : Size Code 0  
                   1 : Size Code 1  
                   2 : Size Code 2  
                   3 : Size Code 3  
                   4 : Size Code 4  
                   5 : Size Code 5  
                   6 : Size Code 6  
                   7 : Size Code 7  
                   8 : Size Code 8  
                   9 : Size Code 9  
                   A : Size Code 10  
                   B : Size Code 11

< BC246T Operation Specification >

C	:	Size Code 12	
D	:	Size Code 13	
E	:	Size Code 14	
[BASE1]	:	Base Frequency1	(for MOT UHF/VHF System only)
[STEP1]	:	Step1	(for MOT UHF/VHF System only)
[OFFSET1]	:	Offset1	(for MOT UHF/VHF System only)
[BASE2]	:	Base Frequency2	(for MOT UHF/VHF System only)
[STEP2]	:	Step2	(for MOT UHF/VHF System only)
[OFFSET2]	:	Offset2	(for MOT UHF/VHF System only)
[BASE3]	:	Base Frequency3	(for MOT UHF/VHF System only)
[STEP3]	:	Step3	(for MOT UHF/VHF System only)
[OFFSET3]	:	Offset3	(for MOT UHF/VHF System only)
[TGID_GRP_HEAD]	:	TGID Index Head of the System	
[TGID_GRP_TAIL]	:	TGID Index Tail of the System	
[ID_LOUT_GRP_HEAD]	:	L/O TGID Group Index Head of the System	
[ID_LOUT_GRP_TAIL]	:	L/O TGID Group Index Tail of the System	

Get/Sets Trunked System Information.

The scanner returns only “,” to punctuate for parameters which are not appropriate the system type.

In set command, the scanner neglects the parameters that are not appropriate the system.

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 TFQ>

Get/Set Trunk Frequency Info

---

---

Controller → Radio

- ①TFQ, [CHN\_INDEX] [¥r]
- ②TFQ, [CHN\_INDEX], [FRQ], [LCN] [¥r]

Radio → Controller

- ①TFQ, [FRQ], [LCN], [REV\_INDEX], [FWD\_INDEX], [SYS\_INDEX], [GRP\_INDEX] [¥r]
- ②TFQ, OK [¥r]

[CHN_INDEX]	:	Channel Index
[FRQ]	:	Frequency for Trunked System
[LCN]	:	LCN
[REV_INDEX]	:	Reverse Frequency Index of the System Frequency Group
[FWD_INDEX]	:	Forward Frequency Index of the System Frequency Group
[SYS_INDEX]	:	System Index of the Frequency
[GRP_INDEX]	:	Index of the System Frequency Group

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.

For Motorola or EDACS SCAT System, [LCN] is ignored.

---

---

<COMMAND AGC>  
Append Channel Group

---

---

Controller → Radio  
①AGC, [SYS\_INDEX] [¥r]

Radio → Controller  
①AGC, [GRP\_INDEX] [¥r]

[SYS\_INDEX] : System Index  
[GRP\_INDEX] : appended Channel Group Index

Append Channel Group to the system.  
Returns -1 if the scanner failed to create because of no resource.  
This command is only acceptable in Programming Mode.

---

---

---

---

<COMMAND AGT>  
Append TGID Group

---

---

Controller → Radio  
①AGT, [SYS\_INDEX] [¥r]

Radio → Controller  
①AGT, [GRP\_INDEX] [¥r]

[SYS\_INDEX] : System Index  
[GRP\_INDEX] : appended TGID Group Index

Append TGID Group to the system.  
Returns -1 if the scanner failed to create because of no resource.  
This command is only acceptable in Programming Mode.

---

---

---

---

<COMMAND DGR>  
Delete Group

---

---

Controller → Radio  
①DGR, [GRP\_INDEX] [¥r]

Radio → Controller  
①DGR, OK [¥r]

[GRP\_INDEX] : Group Index

This command deletes a Channel Group or TGID Group.  
This command is only acceptable in Programming Mode.

---

---

<COMMAND GIN>  
Get/Set Group Info

---

---

Controller → Radio

- ①GIN, [GRP\_INDEX] [¥r]
- ②GIN, [GRP\_INDEX], [NAME], [QUICK\_KEY], [LOUT] [¥r]

Radio → Controller

- ①GIN, [GRP\_TYPE], [NAME], [QUICK\_KEY], [LOUT], [REV\_INDEX],  
[FWD\_INDEX], [SYS\_INDEX], [CHN\_HEAD], [CHN\_TAIL], [SEQ\_NO] [¥r]
- ②GIN, OK [¥r]

[GRP_INDEX]	: Group Index
[GRP_TYPE]	: Group Type (C:Channel Group / T:TGID Group)
[NAME]	: Name (max. 16char)
[QUICK_KEY]	: Quick Key (1-9, 0: means 10, . (dot): means none)
[LOUT]	: Lockout (0:Unlocked / 1:Lockout)
[REV_INDEX]	: Reverse Group Index of the System
[FWD_INDEX]	: Forward Group Index of the System
[SYS_INDEX]	: System Index
[CHN_HEAD]	: Channel Index Head of the Group List
[CHN_TAIL]	: Channel Index Tail of the Group List
[SEQ_NO]	: Group Sequence Number of the System

Get/Set Group 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 ACC>  
Append Channel

---

---

Controller → Radio

- ①ACC, [GRP\_INDEX] [¥r]

Radio → Controller

- ①ACC, [CHN\_INDEX] [¥r]

[GRP_INDEX]	: Channel Group Index
[CHN_INDEX]	: appended Channel Index

Append Channel to the group.

Returns -1 if the scanner failed to create because of no resource.

This command is only acceptable in Programming Mode.

---

---

<COMMAND ACT>

Append TGID

---

---

Controller → Radio

①ACT, [GRP\_INDEX] [¥r]

Radio → Controller

①ACT, [INDEX] [¥r]

[GRP\_INDEX] : TGID Group Index  
[TGID\_INDEX] : appended TGID Index

Append Channel to the group.  
Returns -1 if the scanner failed to create because of no resource.  
This command is only acceptable in Programming Mode.

---

---

<COMMAND DCH>

Delete Channel

---

---

Controller → Radio

①DCH, [INDEX] [¥r]

Radio → Controller

①DCH, OK [¥r]

[INDEX] : Channel Index, TGID Index  
or Frequency Index of Trunked System

This command deletes a Channel and TGID.  
This command is also valid for deleting a frequency  
for a Trunked System.  
This command is only acceptable in Programming Mode.

---

---

<COMMAND CIN>

Get/Set Channel Info

---

---

Controller → Radio

①CIN, [INDEX] [¥r]

②CIN, [INDEX], [NAME], [FRQ], [STP], [MOD], [CTGSS/DCS], [TLOCK],  
[LOUT], [PRI], [ATT], [ALT] [¥r]

Radio → Controller

①CIN, [NAME], [FRQ], [STP], [MOD], [CTGSS/DCS], [TLOCK], [LOUT], [PRI], [ATT],  
[ALT], [REV\_INDEX], [FWD\_INDEX], [SYS\_INDEX], [GRP\_INDEX], [¥r]

②CIN, OK [¥r]

[INDEX] : Channel Index  
[NAME] : Name (max. 16char)  
[FRQ] : Channel Frequency  
[STP] : Search Step  
(0, 500, 625, 750, . . . . , 5000, 10000, 20000)  
0 : AUTO



< BC246T Operation Specification >

500 : 5k  
625 : 6.25k  
750 : 7.5k  
1000 : 10k  
1250 : 12.5k  
1500 : 15k  
2000 : 20k  
2500 : 25k  
5000 : 50k  
10000 : 100k

[MOD] : Modulation (AUTO/FM/NFM/AM)  
[ATT] : Attenuation (0:OFF / 1:ON)  
[CTCSS/DCS] : CTCSS/DCS Mode (0-231: see CTCSS/DCS Code List)  
[TLOCK] : CTCSS/DCS Tone Lockout (0:OFF / 1:ON)  
[LOUT] : Lockout (0:Unlocked / 1:Lockout)  
[PRI] : Priority (0:OFF / 1:ON)  
[ALT] : Alert (0:OFF / 1:ON)  
[REV\_INDEX] : Reverse Channel Index of the TGID Group  
[FWD\_INDEX] : Forward Channel Index of the TGID Group  
[SYS\_INDEX] : System Index of the TGID  
[GRP\_INDEX] : Group Index of the TGID

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 TIN>

Get/Set TGID Info

---

Controller → Radio

- ①TIN, [INDEX] [¥r]
- ②TIN, [INDEX], [NAME], [TGID], [LOUT], [ALT] [¥r]

Radio → Controller

- ①TIN, [NAME], [TGID], [LOUT], [ALT], [REV\_INDEX], [FWD\_INDEX], [SYS\_INDEX], [GRP\_INDEX] [¥r]
- ②TIN, OK [¥r]

[INDEX] : TGID Index  
[NAME] : Name (max. 16char)  
[TGID] : TGID  
[LOUT] : Lockout (0:Unlocked / 1:Lockout)  
[ALT] : Alert (0:OFF / 1:ON)  
[REV\_INDEX] : Reverse TGID Index of the TGID Group  
[FWD\_INDEX] : Forward TGID Index of the TGID Group  
[SYS\_INDEX] : System Index of the TGID  
[GRP\_INDEX] : Group Index of the TGID

Get/Set TGID 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 GLI>

Get Lockout TGID (for Rvw L/O ID)

---

---

Controller → Radio

①GLI, [SYS\_INDEX] [¥r]

Radio → Controller

①GLI, [TGID] [¥r]

GLI, -1 [¥r] : No more lockout TGID

This command is used to get L/O TGID list of a system.  
You should call this command again and again to get all L/O TGID until the scanner returns -1 .  
-1 means that no more L/O frequency exists.  
This command is only acceptable in Programming Mode.

---

---

<COMMAND ULI>

Unlock TGID (for Rvw L/O ID)

---

---

Controller → Radio

①ULI, [SYS\_INDEX], [TGID] [¥r]

Radio → Controller

①ULI, OK [¥r]

This command unlocks a L/O TGID in a system.  
The TGID is deleted from L/O list.  
This command is only acceptable in Programming Mode.

---

---

<COMMAND LOI>

Lock OUT ID (TGID)

---

---

Controller → Radio

①LOI, [SYS\_INDEX], [TGID] [¥r]

Radio → Controller

①LOI, OK [¥r]

This command locks out a TGID for the system.  
The TGID is added to L/O list.  
This command is only acceptable in Programming Mode.

---

---

<COMMAND REV>  
Get Rev Index

---

---

Controller → Radio  
①REV, [INDEX] [¥r]

Radio → Controller  
①REV, [INDEX] [¥r]

Returns reverse(backward) index of the index in the memory chain.  
Returns -1 if no more index exists.  
This command is only acceptable in Programming Mode.

---

---

---

---

<COMMAND FWD>  
Get Fwd Index

---

---

Controller → Radio  
①FWD, [INDEX] [¥r]

Radio → Controller  
①FWD, [INDEX] [¥r]

Returns forward index of the index in the memory chain.  
Returns -1 if no more index exists.  
This command is only acceptable in Programming Mode.

---

---

---

---

<COMMAND RMB>  
Get Remains of Memory Block

---

---

Controller → Radio  
①RMB[¥r]

Radio → Controller  
①RMB, ##### [¥r]

Returns the number of idle(free) memory block.  
: ##### (0-9999)  
This command is only acceptable in Programming Mode.

---

---

---

---

<COMMAND MEM>  
Get Memory Used

---

---

Controller → Radio  
①MEM[¥r]

Radio → Controller  
①MEM, ### [¥r]

Returns % memory used.  
: ### (0-100%)  
This command is only acceptable in Programming Mode.

---

---

<COMMAND SCO>

Get/Set Search/Close Call Settings

---

---

Controller → Radio

①SCO[¥r]

②SCO, [STP], [MOD], [ATT], [DLY], [SKP], [CODE\_SRCH], [PGR], [REP], [MAX\_STORE] [¥r]

Radio → Controller

①SCO, [STP], [MOD], [ATT], [DLY], [SKP], [CODE\_SRCH], [PGR], [REP], [MAX\_STORE] [¥r]

②SCO, OK [¥r]

[STP] : Search Step  
(0, 500, 625, 750, . . . . , 5000, 10000, 20000)  
0 : AUTO  
500 : 5k  
625 : 6.25k  
750 : 7.5k  
1000 : 10k  
1250 : 12.5k  
1500 : 15k  
2000 : 20k  
2500 : 25k  
5000 : 50k  
10000 : 100k

[MOD] : Modulation (AUTO/FM/NFM/AM)  
[ATT] : Attenuation (0:OFF / 1:ON)  
[DLY] : Delay Time (0-5)  
[SKP] : Data Skip (0:OFF / 1:ON)  
[CODE\_SRCH] : CTCSS/DCS Search (0:OFF / 1:ON)  
[PGR] : Pager Screen (0:OFF / 1:ON)  
[REP] : Repeater Find (0:OFF / 1:ON)  
[MAX\_STORE] : Max Auto Store (1-256)

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

①GLF[¥r]

Radio → Controller

①GLF, [FRQ] [¥r]

GLF, -1 [¥r]

[FRQ] : Lockout Frequency (25.0000–1300.0000)

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.  
This command is only acceptable in Programming Mode.

---

---

<COMMAND ULF>  
Unlock Global L/O

---

---

Controller → Radio

①ULF, [FRQ] [¥r]

Radio → Controller

①ULF, OK [¥r]

[FRQ] : Lockout Frequency (25.0000–1300.0000)

This command unlocks a L/O frequency.  
The frequency is deleted from L/O list.  
This command is only acceptable in Programming Mode.

---

---

<COMMAND LOF>  
Lock Out Frequency

---

---

Controller → Radio

①LOF, [FRQ] [¥r]

Radio → Controller

①LOF, OK [¥r]

[FRQ] : Frequency (25.0000–1300.0000)

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

①CLC[¥r]

②CLC, [CC\_MODE], [CC\_OVERRIDE], [ALT], [CC\_BAND] [¥r]

Radio → Controller

①CLC, [CC\_MODE], [CC\_OVERRIDE], [ALT], [CC\_BAND] [¥r]

②CLC, OK [¥r]

[CC\_MODE] : Mode (1:ON / 0:OFF)  
[CC\_OVERRIDE] : Override (1:ON / 0:OFF)  
[ALT] : Alert (N:NONE / B:BEEP / L:LIGHT / A:BEEP+LIGHT)  
[CC\_BAND] : Band (5digit ##### # means 0 or 1)  
(1:ON / 0:OFF)

Band Order : VHF LOW / AIR BAND / VHF HIGH / UHF / 800MHz+

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 CSG>

Get/Set Custom Search Group

---

---

Controller → Radio

①CSG[¥r]

②CSG, ##### [¥r] : Status of Each Search Range

Radio → Controller

①CSG, ##### [¥r]

②CSG, OK [¥r]

: ##### (each # is 0 or 1)

0 : valid

1 : invalid

The Order of Range is as same as LCD Icon.

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

①CSP, [SRCH\_INDEX] [¥r]

②CSP, [SRCH\_INDEX], [NAME], [LIMIT\_L], [LIMIT\_H], [STP], [MOD], [ATT], [DLY], [SKP] [¥r]

Radio → Controller

①CSP, [NAME], [LIMIT\_L], [LIMIT\_H], [STP], [MOD], [ATT], [DLY], [SKP] [¥r]

②CSP, OK [¥r]

[SRCH\_INDEX] : Index (1-9, 0 means 10)  
[NAME] : Name (max. 16char)  
[LIMIT\_L] : Lower Limit Frequency (25.0000-1300.0000)  
[LIMIT\_H] : Upper Limit Frequency (25.0000-1300.0000)  
[STP] : Search Step  
(0, 500, 625, 750, . . . . , 5000, 10000, 20000)  
0 : AUTO  
500 : 5k  
625 : 6.25k  
750 : 7.5k  
1000 : 10k  
1250 : 12.5k  
1500 : 15k  
2000 : 20k  
2500 : 25k  
5000 : 50k  
10000 : 100k  
[MOD] : Modulation (AUTO/FM/NFM/AM)  
[ATT] : Attenuation (0:OFF / 1:ON)  
[DLY] : Delay Time (0-5)  
[SKP] : Data Skip (0:OFF / 1:ON)

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 WPR>  
Get/Set Weather Priority Settings

---

---

Controller → Radio

- ①WPR[¥r]
- ②WPR,#[¥r]

Radio → Controller

- ①WPR,#[¥r]
- ②WPR,OK[¥r]

# means Weather Priority Setting  
(0:OFF / 1:ON)

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

---

---

<COMMAND SGP>  
Get/Set SAME Group Settings

---

---

Controller → Radio

- ①SGP, [SAME\_INDEX] [¥r]
- ②SGP, [SAME\_INDEX], [NAME], [FIPS1], [FIPS2], [FIPS3], [FIPS4], [FIPS5], [FIPS6], [FIPS7], [FIPS8] [¥r]

Radio → Controller

- ①SGP, [NAME], [FIPS1], [FIPS2], [FIPS3], [FIPS4], [FIPS5], [FIPS6], [FIPS7], [FIPS8] [¥r]
- ②SGP,OK[¥r]

[SAME\_INDEX] : SAME Index (1-5)  
[NAME] : SAME Group Name (max.16char)  
[FIPS1-8] : FIPS Code (6digit:000000-999999, or ----- means none)

Get/Set SAME Group 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 WIN>

\*Get Window Voltage

---

---

Controller → Radio

①WIN[¥r]

Radio → Controller

①WIN, ###, [FRQ] [¥r] : A/D Value (0-255)

Returns current window voltage and its frequency.  
The order of the frequency digits is from 1 GHz digit to 100 Hz digit.  
This command is for test mode.

---

---

<COMMAND BAV>

\*Get Battery Voltage

---

---

Controller → Radio

①BAV[¥r]

Radio → Controller

①BAV, ###[¥r] : A/D Value (0-255)

Battery Level [V] = (3.3[V] \* ### ) / 255

Returns current battery voltage.  
This command is for test mode.

CTCSS/DCS CODE LIST

NONE / SEARCH

MODE	CODE	MODE	CODE
NONE	0	SEARCH	127

CTCSS

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

< BC246T Operation Specification >

DCS

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