UNIDEN PROGRAMMING CONTROL CODES FOR USE WITH UNIDEN SCANNERS

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1.1. REMOTE COMMAND (Ver1.03)

[Remote Communication Format]

BPS rate : 2400/4800/9600/19200 bps (default :9600 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

- *1 In case of controlling with program, insert waiting time between commands.
- *2 On MEMU mode, Only key emulation commands is valid.
- *3 The command to change the scanner setting may change an setup item except for the applicable setup item, too.

Most of these commands depend on the specifications of your Scanner.

Ex) "PM" command or "PR" command

[FORMAT OF THIS DOCUMENT]

<COMMAND NAME>

Summary explanation of the function of the command

Controller → Radio

Command format

Radio → Controller

Response format

* Error message isn't described in this document,

but the unit sends error message to the controller as follows.

1) Command format error / Value error : ERR[\fmathbf{Y}r]
2) The command is invalid at the time : NG[\fmathbf{Y}r]
3) Flaming error : FER[\fmathbf{Y}r]
4) Overrun error : ORER[\fmathbf{Y}r]

- * [\frac{1}{2}r] means "to hit the Enter key" or "to send the Return code".
- * The ch bank or search No. assign to alphabet.
 - Ex) BANK1 : A BANK2 : B ---- BANK10 : J
- * The id list No. assign to alphabet.
 - Ex) LIST1: A LIST2: B ---- LIST10: J

<COMMAND AC>

Clear(Initialize) all memory.

Controller \rightarrow Radio

AC[¥r]

Radio → Controller

OK[¥r]

This command instructs the unit to clear all the memories.

All the memories are set for initial setting

This command is valid at any time.

Note) There needs about 10 seconds execute time.

Start from Channel Scanning(start channel: CH 1) by initial setting.

<COMMAND AF>

Confirm/Set EDACS AFS (Agency, Fleet, SUBFLEET) to DECIMAL ID Form mode ON/OFF.

Controller \rightarrow Radio

② AFN[¥r] : AFS to DECIMAL ID Form mode ON

AFF[\(\frac{\pmathbf{Y}}{r}\)] : AFS to DECIMAL ID Form mode OFF

Radio \rightarrow Controller

1 AFN[¥r] : AFS to DECIMAL ID Form mode ON
AFF[¥r] : AFS to DECIMAL ID Form mode OFF

② 0K[¥r]

This command instructs the unit to turn or confirm AFS ID function ON/OFF.

<COMMAND AL> Not Support

Confirm/Set Auto Light function ON/OFF .

Controller \rightarrow Radio

1 AL[\(\frac{4}{4}\rm{r}\)] : Confirm Frequency Identification function ON/OFF

② ALN[¥r] : Auto Light function ON
ALF[¥r] : Auto Light function OFF

Radio \rightarrow Controller

① ALN[\(\frac{4}{4}\)r] : Auto Light ON / ALF[\(\frac{4}{4}\)r] : Auto Light OFF

② 0K[¥r]

This command instructs the unit to turn or confirm Auto Light function ON/OFF.

<COMMAND AR>

Confirm/set Tape out recording function ON/OFF

 $\textbf{Controller} \, \to \, \textbf{Radio}$

 $\textcircled{1} \ \mathsf{AR}[\mathsf{Yr}] \qquad \qquad :\mathsf{Confirm} \ \mathsf{TAPE} \ \mathsf{OUT} \ \mathsf{recording} \ \mathsf{Function} \ \mathsf{ON}/\mathsf{OFF}$

② ARN[¥r] :TAPE OUT recording Function ON ARF[¥r] :TAPE OUT recording Function OFF

Radio \rightarrow Controller

① ARN[¥r] :TAPE OUT recording Function ON
ARF[¥r] :TAPE OUT recording Function OFF

② 0K[¥r]

<COMMAND AT>

Confirm/Set ATT function ON/OFF .

Controller \rightarrow Radio

① AT[¥r] :Confirm ATT function ON/OFF

② ATN[¥r] :ATT ON ATF[¥r] :ATT OFF

Radio → Controller

① ATN[¥r] :ATT ON ATF[¥r] :ATT OFF

② 0K[¥r]

This command instructs the unit to turn or confirm ATT function ON/OFF.

<COMMAND BA>

Confirm/Set BEEP ALERT feature ON/OFF.

Controller \rightarrow Radio

① Confirm BEEP ALERT ON or OFF

BA C ###[\frac{\pmax}{r}] : Confirm BEEP ALERT ON/OFF for Channel of the memory

###: Channel No. (001 - 500)

BA I \$ &%[\frac{1}{2}r] : Confirm BEEP ALERT ON/OFF for TALK GROUP ID

\$ &%:ID Memory No.

\$: Bank No. (A-J)

&:List No. (A-J)

%:Location No. (1-9,0) Note "0" is Location No. 10

② Set BEEP ALERT

BAN C ###[¥r] :Set BEEP ALERT to ON for the Channel memory

BAF C ###[\frac{\pmathbf{F}}{r}] : Set BEEP ALERT to OFF for the Channel memory

###:channel No. (001 - 500)

BAN I \$ &%[\frac{1}{2}r] : Set BEEP ALERT to ON for the ID memory

BAF I \$ &%[\frac{1}{2}r] : Set BEEP ALERT to OFF for the ID memory

\$ &%:ID Memory No.

\$: Bank No. (A-J)

&:List No. (A-J)

%:Location No. (1-9,0) Note "0" is Location No. 10

③ ON/OFF function which informs ALERT condition when "BEEP ALERT" assigned signal

is received or "BEEP ALERT" assigned Talk ID is reception

 $BAN[\mbox{2}r] \hspace{1.5cm} : \mbox{The function which informs ALERT condition is ON}$

BAF[¥r] :The function which informs ALERT condition is OFF

4 Confirm the function which informs BEEP ALERT condition is ON/OFF BA[¥r]

Radio → Controller

① BAN C ##[Yr] :BEEP ALERT of the Channel memory is ON

BAF C ###[\frac{\pmathbf{F}}{r}] :BEEP ALERT of the Channel memory is OFF

###: Channel No. (001 - 500)

BAN I \$ &%[\frac{1}{2}r] :BEEP ALERT of the ID memory is ON

BAF I \$ &%[\frac{1}{4}r] :BEEP ALERT of the ID memory is OFF

\$ &%:ID Memory No.

\$:Bank No. (A-J)

&:List No. (A-J)

%:Location No. (1-9,0) Note "0" is Location No. 10

② 0K[¥r]

③ Informs when BEEP ALERT is sounded BEEP ALERT OUT[¥r]

4 Informs the BEEP ALERT function ON/OFF condition

BAN[¥r] :The function which informs ALERT condition is ON
BAF[¥r] :The function which informs ALERT condition is OFF

<COMMAND BP>

Confirm/Set BEEP output enable or disable.

Controller \rightarrow Radio

 \bigcirc BP[\frac{\pmathbf{Y}}{r}] : Confirm BEEP output enable or disable

② BPN[¥r] :Set BEEP output to enable

BPF[\(\frac{\pmathbf{F}}{r}\)] :Set BEEP output to disable

Radio \rightarrow Controller

① BPN[¥r] :BEEP is enable

BPF[¥r] :BEEP is disable

② OK[¥r] : Command OK

<COMMAND BT>

Confirm/Set S-BIT function ON/OFF .

Controller \rightarrow Radio

① BT[¥r] : Confirm S-BIT function ON/OFF

② BTN[¥r] :S-BIT ON BTF[¥r] :S-BIT OFF

Radio \rightarrow Controller

① BTN[¥r] :S-BIT ON
BTF[¥r] :S-BIT OFF

② 0K[¥r]

This command instructs the unit to turn or confirm S-BIT function ON/OFF.

<COMMAND CB>

Confirm/Select Chain search Banks.

Controller \rightarrow Radio

①CB[¥r]:Confirm search banks②CB @%○···[¥r]:Select Search banks

@, %, O, · · · : bank name

<Example>

CB ACEGI[¥r]

Select "BANK A, C, E, G, I".

Radio \rightarrow Controller

①、② CB @%O···[\forall r] $@, \%, O, \cdots$: bank name

<Example>

CB ACEGI[\frac{\pmathbf{F}}{r}] Selected search banks are "BANK A, C, E, G, I".

This command instructs the unit to make designated search banks be selected.

If your select bank is not any frequency programmed, the bank will be ignored.

<COMMAND CC>

Confirm CTCSS/DCS decode condition

Controller \rightarrow Radio

① CC[¥r] :Confirm CTCSS/DCS decode condition

Radio \rightarrow Controller

①CCY[\frac{\pmathbf{Y}}{r}] : Decode OK / CCN[\frac{\pmathbf{Y}}{r}] : decode NG

<COMMAND CD>

Informs when CTCSS/DCS is decoded

Controller \rightarrow Radio

① CD[\(\perp \text{r}\) : Confirm CD command active or not

(2) CDN[\forall r] : CD ON / CDF[\forall r] : CD OFF

Radio \rightarrow Controller

①CDN[¥r] or CDF[¥r]

② 0K[¥r]

While the function is ON, if CTCSS/DCS is detected, the unit sends its CTCSS/DCS No. to the controller in the form of CD###[*r].

###: CTCSS/DCS No. are listed in Table(following end of this chapter)

<COMMAND CS>

Confirm/set CTCSS/DCS

Controller \rightarrow Radio

 \bigcirc CS[\forall r] : Confirm CTCSS/DCS No.

② CS###[¥r] :Set CTCSS/DCS No.

Example)

CS001[¥r] : Set 67.0Hz ctcss tone

CSO00[¥r] : Clear CTCSS/DCS

③ CS###L[¥r] :Set tone locked CTCSS/DCS No.

###: CTCSS/DCS No. are listed in Table

(following end of this chapter)

Radio \rightarrow Controller

① CS###[\fr] : ###:CTCSS/DCS No.

CS###L[\fr] : ###:tone locked CTCSS/DCS No.

② 0K[¥r]

3 0K[¥r]

<COMMAND CT>

Confirm/set CTCSS/DCS function ON or OFF

Controller \rightarrow Radio

① CT[\(\perprox\) : Confirm CTCSS/DCS function ON or OFF
② CTN[\(\perprox\) : CTCSS/DCS ON CTF[\(\perprox\) r] CTCSS/DCS OFF

CTS[¥r] : CTCSS/DCS SEARCH ON

Radio \rightarrow Controller

CTS[¥r] : CTCSS/DCS SEARCH ON

20K[¥r]

<COMMAND DL>

Confirm/Set DELAY function ON/OFF.

Controller \rightarrow Radio

① DL[¥r] :Confirm DELAY function ON/OFF

② DLN[¥r] :2seconds delay ON

DLF[\(\frac{\pmathbf{Y}}{r}\)] : Delay OFF

DLN ###[\frac{\pmathbf{Y}}{r}] : Optional deley ON

: delay timer setting

+1, +2, +4, +-, -2, -5, -10 NOTE) +- : INFINITY

<Example> DLN +2[¥r]

Radio \rightarrow Controller

① DL ###[¥r] : Delay ON

: delay timer setting

+1, +2, +4, +-, -2, -5, -10 NOTE) +- : INFINITY

DLF[¥r] : Delay OFF

② 0K[¥r]

This command instructs the unit to turn or confirm DELAY function ON/OFF.

<COMMAND DS>

Confirm/Set DATA SKIP function ON/OFF.

Controller \rightarrow Radio

① DS[\(\perp\)r] :Confirm DATA SKIP function ON/OFF

② DSN[¥r] : Data skip ON DSF[¥r] : Data skip OFF

Radio \rightarrow Controller

① DSN[¥r] : Data skip ON
DSF[¥r] : Data skip OFF

② 0K[¥r]

This command instructs the unit to turn or confirm DATA SKIP function ON/OFF.

<COMMAND EL>

Confirm/Set Enter Lock feature ON/OFF.

Controller \rightarrow Radio

① EL[¥r] :Confirm ENTER LOCK ON/OFF

② ELN[¥r] :Set ENTER LOCK to ON ELF[¥r] :Set ENTER LOCK to OFF

Radio \rightarrow Controller

① ELN[¥r] :ENTER LOCK is ON ELF[¥r] :ENTER LOCK is OFF

② OK[¥r] : Command OK

<COMMAND FB>

Confirm/Program fleet block on scanner.

Controller \rightarrow Radio

① FB & #[\frac{\pmathbf{F}}{r}] : Confirm Fleet Block size.

& : A-J Identifies the bank for this fleet block.

:0-7 Identifies the Fleet map Block No.

② FB & # %%[\frac{1}{2} : Program Fleet Block No

& : A-J Identifies the bank for this Fleet Block.

#:0-7 Identifies the Fleet map Block No.

%%:00-14 Block size indicator.

Radio → Controller

① FB & # %%[\frac{\pmathbf{Y}}{r}] : Programmed fleet Block size.

& : A-J Identifies the bank for this fleet block.

:0-7 Identifies the Fleet map block No.

%%:00-14 Block size indicator.

② 0K[¥r]

<COMMAND FI> Not Support

Confirm/Set Frequency Identification function ON/OFF.

Controller \rightarrow Radio

① FI[¥r] :Confirm Frequency Identification function ON/OFF

② FIN[¥r] :Frequency Identification ON FIF[¥r] :Frequency Identification OFF

Radio \rightarrow Controller

① FIN[¥r] : ON FIF[¥r] : OFF

② 0K[¥r]

This command instructs the unit to turn or confirm Frequency Identification function ON/OFF.

<COMMAND FP>

Confirm/ Program FIPS code / Enable All FIPS code mode

Controller \rightarrow Radio

(1) FP[\frac{\pmathbf{F}}{r}] : Confirm FIPS code disable or enable

② FP \$\$ #####[¥r] :Program FIPS code FP \$\$ 0[¥r] :Clear FIPS code

\$\$:Fips code List No. (01-15)

:Fips code No. (6digit)

③ FP \$\$[\frac{1}{2}FP] : Confirm FIPS code of the optional List No.

```
$$ :Fips code List No. (01-15)
                   4 FPN[¥r]
                                                                                                  :Enable All FIPS code mode
                                                                                                  :Disable All FIPS code mode
                            FPF[¥r]
Radio \rightarrow Controller
                  ① FPN[¥r]
                                                                                                  :Enable All FIPS code mode
                            FPF[¥r]
                                                                                                 :Disable All FIPS code mode
                  ② 0K[¥r]
                                                                                                  :Command OK
                  ③ FIPS $$ ######[¥r]
                                                                                                :Informs Fips code No.
                                                                                                       $$ :Fips code List No. (01-15)
                                                                                          ###### :Fips code No. (6digit) or "-----":not programmed
                                                                                                  : Command OK
                   40K[¥r]
<COMMAND IC>
Confirm/Move/Program ID Memory No.
Controller \rightarrow Radio
                   (1) Confirm
                                              IC[¥r]
                   2 Move ID memory
                                              IC @%[¥r]
                                                                                              @ :ID Scan list (A-J)
                                                                                                % : ID Location (1-9, 0)
                                                                                                                 "0" is used to indicate "ID Location 10".
                             <Example>
                                             IC AO[¥r]
                                             Move ID Memory No. to "ID Scan List A" and "ID Location 10".
                   3 Program Talk Group ID
                   //// MOTOROLA TYPE1 ////
                                              IC @% &##-$$[\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinite\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tert{\text{\text{\text{\text{\text{\text{\tin}}\tint{\text{\text{\tinithter{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\ti}\tinithter{\text{\tin\tinter{\text{\text{\text{\text{\text{\text{\text{\text{\text{
                                                                       @%: ID Memory No.
                                                                                          @:ID Scan List (A-J) \%:ID Location (1-9,0)
                                                                      &##-$$ : Type1 ID
                                                                                                       & :Block No. (0-9)
                                                                                                       ## or ### :Fleet No.
                                                                                                       $$ :Sub fleet No.
                                                    <Example>
                                                           IC AO 001-05[Yr] ID in ID memory "A10" is
```

```
"BLOCK=0, FLEET=1, SUBFLEET=5".
  >> PROGRAM MOTOROLA TYPE1 I-CALL ID <<
        IC @% i#####[¥r]
                @% :ID Memory No.
                      @:ID Scan List (A-J) %:ID Location (1-9,0)
                i##### : I-CALL ID
          <Example>
            IC AO i01234[¥r] ID in ID memory "A10" is "i01234".
  >> PROGRAM MOTOROLA TYPE1 ALL I-CALL ID <<
        IC @% i0[\fr]
                @%: ID Memory No.
                      @:ID Scan List (A-J) \%:ID Location (1-9,0)
                iO: ALL I-CALL ID Indication
//// MOTOROLA TYPE 2 ////
        IC @% ######[\Yr]
                @%: ID Memory No.
                      @:ID Scan List (A-J) \%:ID Location (1-9,0)
           ###### : Type2 ID
        <Example>
               IC AO 001234[\(\frac{1}{4}\)r] ID in ID memory "A10" is "1234".
  >> PROGRAM MOTOROLA TYPE2 I-CALL ID <<
        IC @% 7#####[\fr]
                @% :ID Memory No.
                      @:ID Scan List (A-J) %:ID Location (1-9.0)
            7#### : I-CALL ID
          <Example>
            IC AO 701234[¥r] ID in ID memory "A10" is "701234".
  >> PROGRAM MOTOROLA TYPE2 ALL I-CALL ID <<
        IC @% 700000 or IC @% iO[\fr]
                @%: ID Memory No.
                      @:ID Scan List (A-J) \%:ID Location (1-9,0)
        700000 /i0 : ALL I-CALL ID Indication
```

```
//// LTR ////
                           IC @% %$$###[\fr]
                                                   @%: ID Memory No.
                                                                      @:ID Scan List (A-J) \%:ID Location (1-9,0)
                                      %$$### : LTR Talk Group ID
                                                            % : Area code (0, 1)
                                                         $$ : Home Repeater No. (01-20)
                                                      ### : ID (000-254)
                          <Example>
                                                IC AO 001064[¥r]
                                                          ID in ID memory "A10" is "Area code:0 Home Repeater No.:01 ID:64"
//// EDACS ////
                          IC @% &&-##$[¥r]
                                                   @%: ID Memory No.
                                                                      @:ID Scan List (A-J) \% :ID Location (1-9,0)
                                                   &&-##$: Edacs Talk Group ID
                                                                  && :Agency No. ## :Fleet No. $ :SUBFLEET No.
                                <Example>
                                       IC AO 01-025[¥r]
                                                                                                  AFS format
                                       IC AO 000149[¥r]
                                                                                                      DECIMAL format
                                                    ID in ID memory "A10" is "AGENCY=01, FLEET=02, SUBFLEET=5"
         >> PROGRAM EDACS PARTIAL ID <<
                           IC @% &&-[\pmure \text{IC} @\ \dagger 
                                                   @%: ID Memory No.
                                                                      @:ID Scan List (A-J) \% :ID Location (1-9.0)
                                                   &&-: Edacs Partial Talk Group ID(All Agency)
                                            &&-##: Edacs Partial Talk Group ID(All Agency-Fleet)
                                                                  && : Agency No. ## : Fleet No.
                                <Example>
                                       IC AO 01-[¥r]
                                       IC A0 01-02[¥r]
         >> PROGRAM EDACS I-CALL ID <<
                           IC @% i#####[¥r]
```

@%: ID Memory No.

```
@:ID Scan List (A-J) %:ID Location (1-9,0)
                  i##### : I-CALL ID
                <Example>
                  >> PROGRAM EDACS ALL I-CALL ID <<
              IC @% iO[\fr]
                      @%: ID Memory No.
                           @:ID Scan List (A-J) \% :ID Location (1-9,0)
                      iO : ALL I-CALL ID Indication
Radio \rightarrow Controller
      (1), (2)
      //// Not Programmed ID ////
              IC @% -----[\fr]
                      @%: ID Memory No.
                           @:ID Scan List (A-J) \%:ID Location (1-9,0)
     //// MOTOROLA TYPE1 ////
              IC @% &##-$$[\text{\text{Yr}}] or IC @% &###-\$[\text{\text{\text{Yr}}}]
                      @%: ID Memory No.
                           @:ID Scan List (A-J) \%:ID Location (1-9,0)
                     &##-$$ : Type1 ID
                               & :Block No. (0-9)
                               ## or ### :Fleet No.
                               $$ :Sub fleet No.
                <Example>
                  IC AO 001-05[Yr] ID in ID memory "A10" is
                                      "BLOCK=0, FLEET=1, SUBFLEET=5".
        >> MOTOROLA TYPE1 I-CALL ID <<
              IC @% i#####[¥r]
                      @% :ID Memory No.
                           @:ID Scan List (A-J) \%:ID Location (1-9,0)
                      i##### : I-CALL ID
                <Example>
                  IC AO i01234[¥r] ID in ID memory "A10" is "i01234".
```

```
>> MOTOROLA TYPE1 ALL I-CALL ID <<
       IC @% i00000[¥r]
               @%: ID Memory No.
                     @:ID Scan List (A-J) \%:ID Location (1-9,0)
           i00000 : ALL I-CALL ID Indication
//// MOTOROLA TYPE 2 ////
        IC @% ######[\Yr]
               @%: ID Memory No.
                    @:ID Scan List (A-J) \%:ID Location (1-9,0)
           ###### : Type2 ID
       <Example>
              IC AO 001234[\(\frac{1}{4}\)r] ID in ID memory "A10" is "1234".
  >> MOTOROLA TYPE2 I-CALL ID <<
        IC @% 7#####[\fr]
               @% :ID Memory No.
                     @:ID Scan List (A-J) %:ID Location (1-9,0)
           7##### : I-CALL ID
         <Example>
           >> MOTOROLA TYPE2 ALL I-CALL ID <<
       IC @% 700000[¥r]
               @%: ID Memory No.
                    @:ID Scan List (A-J) \% :ID Location (1-9.0)
           700000 : ALL I-CALL ID Indication
//// LTR ////
        IC @% %$$###[\\r]
               @%: ID Memory No.
                     @:ID Scan List (A-J) %:ID Location (1-9,0)
           %$$### : LTR Talk Group ID
                  % : Area code (0, 1)
                 $$ : Home Repeater No. (01-20)
```

```
### : ID (000-254)
        <Example>
              IC AO 001064[\(\frac{1}{4}\)r]
                 ID in ID memory "A10" is "Area code:0 Home Repeater No.:01 ID:64"
//// EDACS ////
        IC @% &&-##$[¥r]
               @%: ID Memory No.
                     @:ID Scan List (A-J) \%:ID Location (1-9,0)
               &&-##$: Edacs Talk Group ID
                    && : Agency No. ## : Fleet No. $ : SUBFLEET No.
          <Example>
            IC AO 01-025[¥r]
                               AFS format
            IC AO 000149[¥r]
                               DECIMAL format
                ID in ID memory "A10" is "AGENCY=01, FLEET=02, SUBFLEET=5"
  >> EDACS PARTIAL ID <<
        @%: ID Memory No.
                     @:ID Scan List (A-J) \%:ID Location (1-9,0)
            &&---: Edacs Partial Talk Group ID(All Agency)
            &&-##-: Edacs Partial Talk Group ID(All Agency-Fleet)
                    && : Agency No. ## : Fleet No.
          <Example>
            IC AO 01----[¥r]
            IC AO 01-02-[¥r]
  >> EDACS I-CALL ID <<
        IC @% i#####[¥r]
               @%: ID Memory No.
                     @:ID Scan List (A-J) % :ID Location (1-9,0)
            i##### : I-CALL ID
          <Example>
            IC AO iO1234[¥r] ID in ID memory "A10" is "iO1234".
  >> EDACS ALL I-CALL ID <<
```

IC @% i00000[¥r]

@% : ID Memory No.

@:ID Scan List (A-J) % :ID Location (1-9,0)

i00000 : ALL I-CALL ID Indication

3 0K[\fr]

<COMMAND ID>

ON/OFF function which informs when ID reception starts or ends.

Controller \rightarrow Radio

① ID[¥r] : confirm "ID" command active

② IDN[¥r] : "ID" command ON IDF[¥r] : "ID" command OFF

Radio \rightarrow Controller

① IDN[¥r] : "ID" command ON
IDF[¥r] : "ID" command OFF

② 0K[¥r]

While the function is ON, the reception ID and tuned frequency are returned by the following format when a radio receives ID and when the reception of ID is finished.

(1) ID Reception Starts

//// MOTOROLA TYPE1 ////

ID S &##-\$\$ %%%%%%%[\fr] or ID S &###-\$ %%%%%%%[\fr]

&##-&& / &###-\$:Motorola Type1 ID

& :Block No. ## / ### :Fleet No.

\$\$ / \$:Subfleet No.

%%%%%%% : Voice channel Frequency

<Example>

ID S 001-03 08510125[¥r]

ID reception starts on Block=0, Fleet=1, Subfleet=3

Voice channel Frequency: 851.0125MHz

>> MOTOROLA TYPE1 I-CALL ID RECEPTION START <<

ID S i##### %%%%%%% I-CALL i\$\$\$\$\$[\frac{1}{2}r]

i##### :Individual Call ID1(Decimal format)
i\$\$\$\$:Individual Call ID2(Decimal format)

%%%%%%% : Voice channel Frequency

>> MOTOROLA TYPE1 PHONE CALL ID RECEPTION START <<

ID S i##### %%%%%% PHONE[\frac{\frac}\frac{\fin}}}}}}{\frac}\f{\frac{\frac{\fir}}}}}{\firac{\fir}{\firin}}}}}{\firac{\fira}{\firac{\fir\f{\f{\f{\frac{

i##### : Phone Call ID (Decimal format)

%%%%%%% : Voice channel Frequency

//// MOTOROLA TYPE 2 ////

ID S @@@@@@ %%%%%%%[\footnote{\footn

@@@@@@ :Talk group ID

%%%%%%% : Voice channel Frequency

<Example>

ID S 001234 08510125[\(\frac{4}{3}\)r ID reception starts on "ID=1234".

Voice Channel Frequency: 851, 0125MHz

>> MOTOROLA TYPE2 I-CALL ID RECEPTION START <<

ID S 7##### %%%%%%% I-CALL 7\$\$\$\$[\frac{1}{2}r]

7##### :Individual Call ID1(Decimal format)

7\$\$\$\$: Individual Call ID2 (Decimal format)

%%%%%%% : Voice channel Frequency

>> MOTOROLA TYPE2 PHONE CALL ID RECEPTION START <<

ID S 7##### %%%%%% PHONE[\fr]

7##### : Phone Call ID (Decimal format)

%%%%%%% : Voice Frequency

//// LTR ////

ID S %\$\$### %%%%%%%[\fm]

%\$\$### : LTR Talk Group ID

%: Area code (0.1)

\$\$:Home Repeater No. (01-20)

: ID (000-254)

%%%%%%% : Goto channel Frequency

<Example>

ID S 001064 08510250[¥r]

ID reception starts on "Area code:0 Home Repeater No.:01 ID:64".

Goto Channel Frequency: 851. 0250MHz

//// EDACS ////

ID S &&-##\$ %%%%%%%[\fm [\fm]

&&-##\$:EDACS Talk Group ID

&& : Agency ## : Fleet No. \$: SUBFLEET No.

%%%%%%% : Working channel Frequency

<Example>

ID S 000149 08510125[\(\perp\)r] DECIMAL format

>> EDACS EMERGENCY ID RECEPTION START <<

ID S &&-##\$ %%%%%% EMERGENCY[\(\frac{\pmartix}{2}\rr\)

&&-##\$:EDACS Emergency ID

&& : Agency ## : Fleet No. \$: SUBFLEET No.

%%%%%%% : Working channel Frequency

>> EDACS PATCH CALL ID RECEPTION START <<

ID S &&-##\$ %%%%%% PATCH ID @@-\\\ @@-\\\ @@-\\\\ @@-\\\\\

&&-##\$:EDACS Patch ID

&& : Agency ## :Fleet No. \$: SUBFLEET No.

%%%%%%% : Working channel Frequency

@@-\\# :Patch comprising talk groups ID

@@ : Agency \text{\text{\$\ext{\$\exitt{\$\ext{\$\exitt{\$\ext{\$\exitt{\$\exitt{\$\exitt{\$\ext{\$\exitt

>> EDACS I-CALL ID RECEPTION START <<

ID S i##### %%%%%% I-CALL[\fr]

i##### :EDACS I-CALL ID(Decimal format)

%%%%%%% : Working channel Frequency

(2) ID reception ends

//// MOTOROLA TYPE1 ////

ID E &##-\$\$ %%%%%%%[\fr] or ID E &###-\\$ %%%%%%%\[\fr]

&##-&& / &###-\$:Motorola Type1 ID

& :Block No. ## / ### :Fleet No.

\$\$ / \$:Subfleet No.

%%%%%%% : Control channel Frequency

<Example>

ID E 001-03 08510125[\mbox{Yr}] ID reception ends on Block=0,

Fleet=1, Subfleet=3

Control channel Frequency:851.0125MHz

>> MOTOROLA TYPE1 I-CALL & PHONE CALL RECEPTION END <<

ID E i##### %%%%%%%[\fm [\fm]

i##### :ID(Decimal format)

%%%%%%% : Control channel Frequency

//// MOTOROLA TYPE2 ////

ID E @@@@@@ %%%%%%% [\forall Fr]

@@@@@@ :Talk group ID

%%%%%%% : Control channel Frequency

<Example>

ID E 001234 08510125[\(\frac{1}{2}\)r ID reception ends on "ID=1234".

Control channel Frequency: 851. 0125MHz

>> MOTOROLA TYPE2 I-CALL & PHONE CALL ID RECEPTION END <<

ID E 7##### %%%%%%%\[\frac{1}{2}\rightarrow\]

7##### :ID(Decimal format)

%%%%%%% : Control channel Frequency

//// LTR ////

ID E %\$\$### %%%%%%%[\fm [\fm]

%\$\$### : LTR Talk Group ID

% :Area code (0, 1)

\$\$: Home Repeater No. (01-20)

: ID (000-254)

%%%%%%% : Home channel Frequency

<Example>

ID E 001064 08510250[¥r]

ID reception ends on "Area code:0 Home Repeater No.:01 ID:64".

Home Channel Frequency:851.0250MHz

//// EDACS ////

ID E &&-##\$ %%%%%%%[\frac{1}{2}r]

&&-##\$:EDACS Talk Group ID

&&: Agency ##:Fleet No. \$: SUBFLEET No.

%%%%%%% : Control channel Frequency

<Example>

ID E 01-025 08510125[¥r] AFS format

ID E 000149 08510125[¥r] DECIMAL format

>> EDACS EMERGENCY ID RECEPTION END <<

ID E &&-##\$ %%%%%%%[\fm [\fm]

&&-##\$:EDACS Emergency ID

&&: Agency ##:Fleet No. \$: SUBFLEET No.

%%%%%%% : Control channel Frequency

>> EDACS PATCH CALL ID RECEPTION END <<

ID E &&-##\$ %%%%%%%[\fm [\fm r]

&&-##\$:EDACS Patch ID

&&: Agency ##:Fleet No. \$: SUBFLEET No.

%%%%%%% : Control channel Frequency

>> EDACS I-CALL ID RECEPTION END <<

ID E i##### %%%%%%%[\fm [\fm]

i##### :EDACS I-CALL ID(Decimal format)

%%%%%%% : Control channel Frequency

This command instructs the unit to turn the function ON/OFF. While the function is ON, the unit is monitoring the status of the ID reception and informs when it starts or ends.

<COMMAND IL>

Read $L/0\ ID\ memory.$

Register an ID into L/0 ID memory.

Delete an ID from L/0 ID memory.

Controller \rightarrow Radio

1) Read

IL###[¥r] ### : Lockout Memory No. (001 - 200)

2 Register

//// MOTOROLA TYPE 1 ////

ILR &##-\$\$[\frac{\pmathbf{Y}}{r}] / ILR &###-\\$[\frac{\pmathbf{Y}}{r}]

&##-&& / &###-\$:Motorola Type1 ID

& :Block No. ## / ### :Fleet No.

\$\$ / \$:Subfleet No.

ILR i####[¥r] i#### :MOTOROLA TYPE1 I-CALL ID

<Example>

ILR 001-03[¥r]

ILR i01234[¥r]

//// MOTOROLA TYPE 2 ////

ILR @@@@@@[\fr] @@@@@@ :MOTOROLA TYPE2

ILR 7#####[¥r] 7##### :MOTOROLA TYPE2 2 I-CALL ID

<Example>

```
ILR 024106[¥r]
                 ILR 701234[¥r]
        //// LTR ////
                 ILR %$$###[¥r]
                            %$$### : LTR Talk Group ID
                                     % : Area code (0, 1)
                                    $ :Home Repeater No. (01-20)
                                   ### : ID (000-254)
             <Example>
                 ILR 001064[\(\perpreserver)\)
        //// EDACS ////
                 ILR &&-##$[¥r]
                         &&-##$ :EDACS Emergency ID
                                   &&: Agency ##:Fleet No. $: SUBFLEET No.
                 ILR i####[¥r]
                                           i##### :EDACS I-CALL ID
             <Example>
                 ILR 01-011[¥r]
                 ILR i01234[¥r]
        >> EDACS BLOCKOUT <<
                 ILR &&-[\frac{2}{4}r] ALL Agency lockout
                                                                 &&: Agency No
                 ILR &&-##[\frac{\pmathbf{F}}{r}] ALL Agency-Fleet lockout
                                                                 ##: Fleet No.
             <Example>
                 ILR 02-[\fr]
                 ILR 02-01[¥r]
3 Delete
        //// MOTOROLA TYPE 1 ////
                 ILD &##-$$[\(\frac{\pma}{r}\)] / ILD &###-\(\frac{\pma}{r}\)]
                          &##-&& / &###-$ :Motorola Type1 ID
                                   & :Block No. ## / ### :Fleet No.
                                   $$ / $ :Subfleet No.
                                           i##### :MOTOROLA TYPE1 I-CALL ID
                 ILD i####[¥r]
             <Example>
                 ILD 001-03[¥r]
```

ILD i01234[\(\frac{1}{4}\rrr{1}\)]

```
//// MOTOROLA TYPE 2 ////
        ILD @@@@@@[\r]
                                  @@@@@ : MOTOROLA TYPE2
                                  7##### :MOTOROLA TYPE2 2 I-CALL ID
         ILD 7#####[¥r]
    <Example>
        ILD 024106[¥r]
        ILD 701234[¥r]
//// LTR ////
        ILD %$$###[¥r]
                   %$$### : LTR Talk Group ID
                           % : Area code (0, 1)
                           $ :Home Repeater No. (01-20)
                          ### : ID (000-254)
    <Example>
        ILD 001064[\(\frac{1}{4}\)r]
//// EDACS ////
         ILD &&-##$[¥r]
                &&-##$ :EDACS Emergency ID
                          &&: Agency ##:Fleet No. $: SUBFLEET No.
        ILD i####[¥r]
                                 i##### :EDACS I-CALL ID
    <Example>
        ILD 01-011[¥r]
         ILD i01234[\(\frac{1}{4}\rrr{1}\)]
>> EDACS BLOCKOUT <<
         ILD &&-[\frac{\pmathbf{F}}{r}] ALL Agency lockout
                                                        &&: Agency No
        ILD &&-##[\frac{4}{r}] ALL Agency-Fleet lockout
                                                       ##: Fleet No.
    <Example>
        ILD 02-[\fr]
        ILD 02-01[\fr]
```

```
Radio \rightarrow Controller
      1) Read
               //// NOT REGISTERED LOCKOUT ID MEMORY ////
                      IL -----[¥r]
               //// MOTOROLA TYPE 1 ////
                        IL &##-$$[\frac{\pmathbf{Y}}{r}] / IL &###-\frac{\pmathbf{Y}}{r}]
                                &##-&& / &###-$ :Motorola Type1 ID
                                         & :Block No. ## / ### :Fleet No.
                                         $$ / $ :Subfleet No.
                        IL i#####[¥r]
                                                 i##### :MOTOROLA TYPE1 I-CALL ID
                   <Example>
                        IL 001-03[¥r]
                        IL i01234[¥r]
               //// MOTOROLA TYPE 2 ////
                        IL @@@@@@[¥r]
                                               @@@@@@ :MOTOROLA TYPE2
                        IL 7####[¥r]
                                               7##### :MOTOROLA TYPE2 2 I-CALL ID
                   <Example>
                       IL 024106[¥r]
                        IL 701234[¥r]
               //// LTR ////
                       IL %$$###[¥r]
                                  %$$### : LTR Talk Group ID
                                           % : Area code (0, 1)
                                          $ :Home Repeater No. (01-20)
                                         ### : ID (000-254)
                   <Example>
                       IL 001064[¥r]
               //// EDACS ////
                        IL &&-##$[¥r]
                               &&-##$ :EDACS Emergency ID
```

&&: Agency ##:Fleet No. \$: SUBFLEET No.

IL i#####[¥r] i##### :EDACS I-CALL ID

<Example>

IL 01-011[¥r]
IL i01234[¥r]

>> EDACS BLOCKOUT <<

IL &&----[¥r] ALL Agency lockout

ILD &&-##-[$\mbox{\em Fleet}$ | ALL Agency-Fleet lockout

&&: Agency ##: Fleet No.

<Example>

IL 02-[¥r]

IL 02-01-[¥r]

② Register

If the ID is registered into L/0 ID memory, the unit sends

OK[\frac{\pmathbf{Y}}{r}] to the controller.

If the ID is already in L/0 ID memory, sends ON[Yr].

If L/0 ID memory is full, sends FULL[Yr].

3 Delete

If the ID is deleted from L/0 ID memory, the unit sends OK[Yr] to the controller. If the ID isn't in L/0 ID memory, sends OFF[Yr].

<COMMAND IR>

Confirm/Set I-call ID Reception function

Controller \rightarrow Radio

① IR @[Yr] : Confirm I-CALL ID Reception function

@:Bank No. (A-J)

(2) IRN @[\frac{\text{Yr}}{\text{ | Set I-CALL ID Reception to ON mode}

IRF @[\forall [Fr] :Set I-CALL ID Reception to OFF mode

IRY @[¥r] :Set I-CALL ID Reception to ONLY mode

@:Bank No. (A-J)

Radio \rightarrow Controller

① IRN @[Yr] :I-CALL ID Reception is ON mode

IRY $@[\mbox{\sc i}]$: I-CALL ID Reception is ONLY mode $@:\mbox{Bank No.}$ (A-J)

20K[¥r]

<COMMAND IS>

Confirm/Select ID scan lists.

Controller \rightarrow Radio

① IS[¥r] :Confirm ID scan list name

② IS @%O···[\ref{r}] :Select ID scan list

@, %, \bigcirc , \cdots : ID scan list No. (A-J)

<Example>

IS ACE[\(\frac{4}{r}\)] Select "LIST A, LIST C, LIST E".

(LIST B, LIST D are not selected)

Radio \rightarrow Controller

(1),(2)

IS $@\%O \cdots [Yr]$ $@, \%, O, \cdots : ID scan list name$

<Example>

IS ACE[\frac{1}{2}r] Selected ID scan lists are "LIST A, C, E".

This command instructs the unit to make designated ID scan lists be selected.

<COMMAND KEY>

Work as if a key were pushed.

Controller \rightarrow Radio

KEYOO[\frac{\text{Yr}}{\text{T}} \qquad \text{OO:KEY Emulate Code (see Following Table)}

* To indicate "Hold Press" of each key, add "H" to each command.

<Example>

KEY06H[¥r]

This command is used instead of hold press of [L/0] key.

KEY02 6[¥r]

This command is used instead of press of [6] key.

So this command is used instead of hold press of [6] key.

Radio \rightarrow Controller

OK[¥r]

- * When use [REMOTE] key, no response from the unit because this key makes the unit be out of REMOTE MODE. These commands instruct the unit to be have as if a key on the scanner's front panel were pushed.
- * Even If the command is invalid, response is always OK.

Key Emulate Code:

 KEY00: [SCAN]
 KEY01: [MANUAL]

 KEY02: [0]-[9]
 KEY03: [.]

 KEY04: [E/REM]
 KEY05: [PRI]

 KEY06: [L/0]
 KEY07: [HOLD/▲]

 KEY08: [LIMIT/▼]
 KEY09: [SEARCH]

 KEY10: [WX]
 KEY11: [MENU]

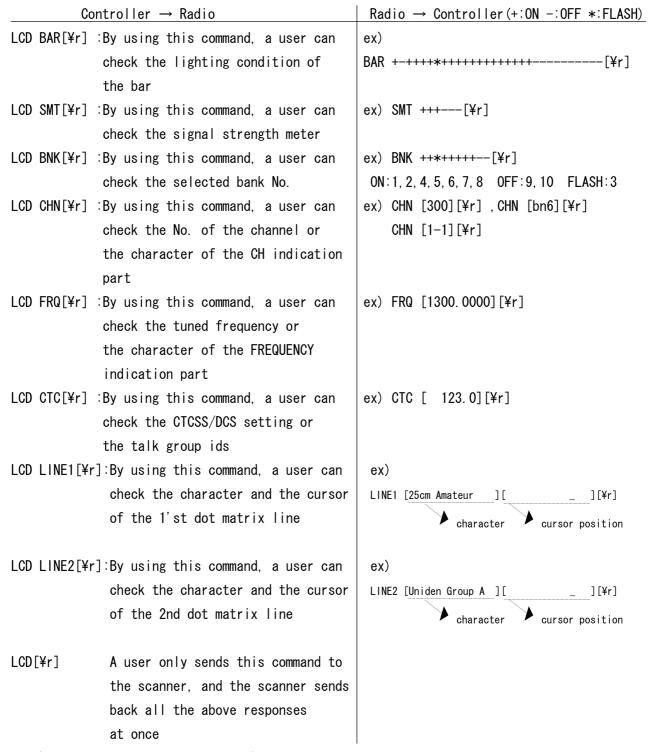
 KEY12: [SELECT]
 KEY13: [TRUNK]

KEY14: [SELECT PUSH]

<COMMAND LCD>

Confirm the icon indicated in LCD, a character, and so on.

Controller → Radio	Radio → Controller(+:ON -:OFF *:FLASH)		
LCD P[\frac{1}{2}r] "P"icon is ON/OFF/FLASH?	P +[¥r]	P -[¥r]	P *[¥r]
LCD E[¥r] "E"icon is ON or OFF(or FLASH)	E +[¥r]	E -[¥r]	E *[¥r]
LCD M[¥r] "M"icon is ON/OFF/FLASH ?	M +[¥r]	M -[¥r]	M *[¥r]
LCD L[¥r] "L"icon is ON/OFF/FLASH ?	L +[¥r]	L -[¥r]	L *[¥r]
LCD BANK[¥r] "BANK"icon is ON/OFF/FLASH ?	BANK +[¥r]	BANK -[¥r]	BANK *[¥r]
LCD LIST[¥r] "LIST"icon is ON/OFF/FLASH?	LIST +[¥r]	LIST -[¥r]	LIST *[¥r]
LCD SCAN[¥r] "SCAN"icon is ON/OFF/FLASH?	SCAN +[¥r]	SCAN -[¥r]	SCAN *[¥r]
LCD TRUNK[¥r] "TRUNK"icon is ON/OFF/FLASH?	TRUNK +[¥r]	TRUNK -[¥r]	TRUNK *[¥r]
LCD FDOT[\(\frac{4}{7}\)] "."of frequency is ON/OFF/FLASH?	FDOT +[¥r]	FDOT -[¥r]	FDOT *[¥r]
LCD N[¥r] "N"icon is ON/OFF/FLASH ?	N +[¥r]	N -[¥r]	N *[¥r]
LCD DCS[¥r] "DCS"icon is ON/OFF/FLASH ?	DCS +[¥r]	DCS -[¥r]	DCS *[¥r]
LCD CTCSS[¥r] "CTCSS"icon is ON/OFF/FLASH ?	CTCSS +[¥r]	CTSCC -[¥r]	CTCSS *[¥r]
LCD AM[¥r] "AM"icon is ON/OFF/FLASH ?	AM +[¥r]	AM -[¥r]	AM *[¥r]
LCD FM[¥r] "FM"icon is ON/OFF/FLASH ?	FM +[¥r]	FM -[¥r]	FM *[¥r]
LCD WFM[\frac{2}{4}r] "WFM" icon is ON/OFF/FLASH?	WFM +[¥r]	WFM -[¥r]	WFM *[¥r]
LCD SRCH[¥r] "SRCH"icon is ON/OFF/FLASH?	SRCH +[¥r]	SRCH -[¥r]	SRCH *[¥r]
LCD HOLD[¥r] HOLD"icon is ON/OFF/FLASH ?	HOLD +[¥r]	HOLD -[¥r]	HOLD *[Yr]
LCD FREQ[¥r] "FREQ"icon is ON/OFF/FLASH?	FREQ +[¥r]	FREQ -[¥r]	FREQ *[¥r]
LCD CHAN[¥r] "CHAN"icon is ON/OFF/FLASH?	CHAN +[¥r]	CHAN -[¥r]	CHAN *[¥r]
LCD PRI[¥r] "PRI"icon is ON/OFF/FLASH ?	PRI +[¥r]	PRI -[¥r]	PRI *[¥r]
LCD DLY[\frac{2}{3}r] "DLY"icon is ON/OFF/FLASH?	DLY +[¥r]	DLY -[¥r]	DLY *[¥r]
LCD LOUT[\(\frac{\pmatrix}{r}\) "L/0"icon is ON/0FF/FLASH?	LOUT +[¥r]	LOUT -[¥r]	LOUT *[¥r]
LCD ALPHA[¥r] "ALPHA"icon is ON/OFF/FLASH ?	ALPHA +[¥r]	ALPHA -[¥r]	ALPHA *[Yr]
LCD RMT[¥r] "RMT"icon is ON/OFF/FLASH ?	RMT +[¥r]	RMT -[¥r]	RMT *[¥r]
LCD AUTO[¥r] "AUTO"icon is ON/OFF/FLASH?	AUTO +[¥r]	AUTO -[¥r]	AUTO *[¥r]
LCD CDOT[¥r] "."of ctcss is ON/OFF/FLASH?	CDOT +[¥r]	CDOT -[¥r]	CDOT *[¥r]
LCD HZ[¥r] "HZ" of ctcss is ON/OFF/FLASH ?	HZ +[¥r]	HZ -[¥r]	HZ *[¥r]
LCD S[$\mbox{\em Yr}$] "S" of s-meter is ON/OFF/FLASH ?	S +[¥r]	S -[¥r]	S *[¥r]
LCD KLOC[\(\frac{4}{r}\)] "KEYLOC" symbol is ON/OFF/FLASH?	KLOC +[¥r]	KLOC -[¥r]	KLOC *[¥r]
LCD ATT[\(\frac{4}{r}\)] "ATT" icon is ON/OFF/FLASH?	ATT +[¥r]	ATT -[¥r]	ATT *[¥r]
LCD LINE[¥r] "LINE"icon is ON/OFF/FLASH?	LINE +[¥r]	LINE -[¥r]	LINE *[¥r]
LCD ALT[¥r] "ALT"icon is ON/OFF/FLASH?	ALT +[¥r]	ALT -[¥r]	ALT *[¥r]
LCD DATA[¥r] "DATA"icon is ON/OFF/FLASH?	DATA +[¥r]	DATA -[¥r]	DATA *[¥r]



NOTE) All the above responses aren't influenced by the screen mask feature.

<COMMAND LL>

Confirm/Set lower edge frequency of CHAIN SEARCH.

Controller \rightarrow Radio

1 LL[\(\frac{4}{7}\)] :Confirm the lower edge frequency of the current search bank

LL #[Yr] : Confirm the lower edge frequency of the selected search bank.

#: Search Bank No. (A, B, J)

② LL@@@@@@@[\formaller] :Set the lower edge frequency of the current search bank LL@@@@@@@@ #[\formaller] :Set the lower edge frequency of the selected search bank

@@@@@@@ :Lower edge frequency

The order of the digits is from 1 GHz digit

to100 Hz digit.

: Search Bank No. (A, B.... J)

<Example>

LL08510125 A[\frac{\pmathbf{Y}}{r}]

Set the lower edge frequency to "851.0125 MHz" for the search Bank "A".

Radio \rightarrow Controller

1) 2) LL@@@@@@@ #[\fr]

The current lower edge frequency is @@@@@@@*100 Hz.

#: Search Bank No (A, B, J)

This command instructs the unit to set the lower edge frequency of chain search to @@@@@@@*100 Hz or confirm frequency.

<COMMAND LM>

Confirm/Set LCD screen mask feature ON/OFF.

Controller \rightarrow Radio

① LM[¥r] :Confirm LCD screen mask ON/OFF

② LMN[¥r] :Set LCD screen mask to ON
LMF[¥r] :Set LCD screen mask to OFF

Radio \rightarrow Controller

① LMN[¥r] :LCD screen mask is ONLMF[¥r] :LCD screen mask is OFF

② OK[¥r] : Command OK

<COMMAND LO>

Confirm/Set LOCKOUT function ON/OFF.

Controller \rightarrow Radio

① LO[\frac{\pmathbf{Y}}{r}] : Confirm LOCKOUT function ON/OFF

2 LON[¥r] :Lockout ON
LOF[¥r] :Lockout OFF

Radio \rightarrow Controller

① LON[¥r] :Lockout ON LOF[¥r] :Lockout OFF

② 0K[¥r]

This command instructs the unit to turn or confirm LOCKOUT function ON/OFF.

<COMMAND LT>

Confirm/Set Back Light HIGH/OFF/MEDIUM.

Controller \rightarrow Radio

① LT[¥r] :Confirm Back Light HIGH/OFF/MEDIUM

② LTN[¥r] :Back Light HIGH
LTF[¥r] :Back Light OFF
LTD[¥r] :Back Light MEDIUM

Radio \rightarrow Controller

① LTN[¥r] :Back Light HIGH
LTF[¥r] :Back Light OFF
LTD[¥r] :Back Light MEDIUM

② 0K[¥r]

This command instructs the unit to turn or confirm Back Light HIGH/OFF/MEDIUM.

<COMMAND LU>

Confirm/Set upper edge frequency of CHAIN SEARCH.

Controller \rightarrow Radio

1 LU[¥r] : Confirm the upper edge frequency of the current search bank
 LU #[¥r] : Confirm the upper edge frequency of the selected search bank
 #: Search Bank No. (A, B, J)

② LU@@@@@@@[\forall Fr] : set the upper edge frequency of the current search bank
LU@@@@@@@@ #[\forall Fr] : set the upper edge frequency of the selected search bank

@@@@@@@@ :Upper edge frequency

The order of the digits is from 1 GHz digit
to 100 Hz digit.

: Search Bank No (A, B. . . . J)

<Example>

LU09560000 A[\frac{1}{2}r]

Set the upper edge frequency to "956.0000MHz" for the search Bank "A".

Radio \rightarrow Controller

1) 2) LU@@@@@@@ #[\r]

The current upper edge frequency is @@@@@@@*100 Hz.

#: Search Bank No. (A, B, J)

This command instructs the unit to set the upper edge frequency to @@@@@@@@*100 Hz or confirm frequency.

<COMMAND MA>

Confirm the channel No. of MANUAL MODE or SCAN STOP MODE. Move to the optional channel No. of MANUAL MODE.

Controller \rightarrow Radio

① Confirm MA[¥r]

2 Move to

<Example>

MAO15[\mbox{Yr}] Move to the channel No. "15".

Radio \rightarrow Controller

(1), (2)

C@@@ F%%%%%%% T# D# L# A# R# N\$\$\$ [\footnote{\text{Yr}}]

@@@ : Channel No. %%%%%%% : Frequency

The order of the frequency digits are from 1 GHz digit

to 100 Hz digit.

:N or F(ON/OFF)

ex)TN/TF:Trunking frequency / conventional frequency

DN/DF :Delay ON/OFF
LN/LF :Lockout ON/OFF
AN/AF :Attenuator ON/OFF

RN/RF : Auto record function ON/OFF

:CTCSS/DCS TONE No. are listed in Table

(following end of this chapter)

<Example>

\$\$\$

CO15 F04060125 TF DN LF AF N000[\(\frac{1}{2}\)r]

The current channel No. is "15",

and its conventional frequency is "406.0125 MHz".

Delay function is ON, Lockout is OFF,

Attenuation is OFF

CTCSS is not programmed.

```
<COMMAND MD>
Confirm the Scanner mode.
Controller \rightarrow Radio
     MD[¥r]
Radio \rightarrow Controller
     MD@@[Yr]
                @@ :Current scanner mode No. (See following Table)
      This command instructs the unit to confirm the current scanner mode .
      >>>> Scanner Mode Number <<<<
           00 : Scan mode
           01 : Manual mode
           02 :Limit Search mode
           03 :Limit Search Hold mode
           04 : Service Search mode
           05 :Service Search Hold mode
           06 : Auto Store mode
           07 : Control Store mode (Not used )
           08 :manual frequency mode
           09 : ID search mode
           10 : ID search hold mode
           11 : ID scan mode
           12 : ID manual mode
           13 : Edacs ID search mode
           14 : Edacs ID search hold mode
           15 : Edacs ID scan mode
           16 : Edacs ID manual mode
           17 :LTR ID search mode
           18 :LTR ID search hold mode
           19 :LTR ID scan mode
```

20 :LTR ID manual mode

<COMMAND MU> Confirm/Set status of speaker muting. Controller \rightarrow Radio ① MU[¥r] :Confirm MUTE control mode. :Confirm MUTE ON/OFF condition. ② MU?[¥r] :Set MUTE ON (by force) mode. 3 MUN[¥r] MUF[¥r] :Set MUTE OFF (by force) mode. MUA[¥r] :Set AUTO MUTE control mode. Radio \rightarrow Controller 1 MUN[¥r] :MUTE ON(by force) mode. MUF[¥r] : MUTE OFF (by force) mode. MUA[¥r] :AUTO MUTE control mode. ② MU ON[¥r] :MUTE ON condition. :MUTE OFF condition. MU OFF[¥r] 3 0K[¥r] this command instructs the unit to set or confirm the status of speaker Muting. <COMMAND PC> Confirm/Set priority channel No. of a bank. Controller \rightarrow Radio ① Confirm PC @[¥r] @ :Bank No. (A - J) <Example> PC A[¥r] Confirm the priority channel of "Bank A". ② Set PC @%%%[\fr] @ :Bank No. (A-J) %%% :Channel No. (001 - 500) <Example>

PC A014[\(\frac{1}{4}\)r] Set the priority channel of "Bank A" to "14".

```
Radio \rightarrow Controller
      (1), (2)
              <Example>
                     PC A014[\frac{1}{4}r] The priority channel of "Bank A" is "14".
 <COMMAND PI>
 Confirm/Set Priority Talk ID Memory Location
Controller \rightarrow Radio
      ① Confirm Priority ID location
         <Example>
                    Confirm priority Location of List "A" in current Trunk Bank
                       PI A[¥r]
       Set Priority ID location
      ②PI @#[\frac{2}{4}r]  @ : ID List No. (A-J)  # : ID location No. (1-9,0)
      <Example>
              PI A1[\frac{1}{4}r] set priority to List "A", Location "1"
Radio \rightarrow Controller
      ① PI @# %%%%%[¥r]
                            @ : ID List No (A-J) # : ID location No. (1-9,0)
                            %%%%% : Talk Group ID
      <Example>
             PI A1 001234[¥r]
                   Priority of List "A" is location "1" ID:001234
      ② 0K[¥r]
```

<COMMAND PM>

Read / Program a channel frequency

Controller \rightarrow Radio

1) Read

<Example>

PM014[¥r] Read the frequency of "14CH".

2 Program

PM@@@ %%%%%%%[\forall or PM@@@T%%%%%%%[\forall r]

@@@ :Channel No. (001-500) T: Trunking ch flag

%%%%%%% :Frequency

The order of the frequency digits are from 1 GHz digit to 100 Hz digit.

PM command initialize delay mode, attenuator and auto record, because DL, AT and AR commands is commanded after commanding PM command.

If trunking ch flag is added, the frequency will be rounded by default step.

<Example 1> program 406.0125MHz to Channel No.14

PM014 04060125[¥r] Set the frequency of "14CH" to "406.0125 MHz".

<Example 2> program 29.0050MHz to Channel No.14

MA014[¥r] Move to channel No. 14

ST 5K[¥r] Change program step

PM014 00290050[\frac{\frac}{\frac{\frac{\frac{\frac}{\frac{\frac{\frac{\frac{\frac{\frac}}}}{\frac}{\frac}}}}}{\firac{\fir\fir\fir\firec{\frac{\frac{\frac{\frac{\frac{\frac}}}}{\frac{\fi

Radio \rightarrow Controller

1,2

C@@@ F%%%%%%% T# D# L# A# R# N\$\$\$ [\footnote{\text{Yr}}]

@@@ : Channel No. (001-500)

%%%%%%% :Frequency

:N or F(0N/0FF)

ex)TN/TF : trunking / conventional frequency

DN/DF : Delay ON/OFF

LN/LF : Lockout ON/OFF

AN/AF : Attenuator ON/OFF

RN/RF: Auto record function ON/OFF

\$\$\$:CTCSS/DCS TONE No. are listed in Table

(following end of this chapter)

<Example>

CO15 F04060125 TF DN LF AF RF N000[\(\frac{1}{2}\)r

CH No : CH15 FREQUENCY: "406.0125 MHz" (conventional)

DELAY : ON LOCKOUT : OFF
ATTENUATOR : OFF CTCSS : OO. O Hz.

<COMMAND PR>

Confirm/Set PRIORITY function ON/OFF .

Controller \rightarrow Radio

① PR[¥r] :Confirm priority function ON/OFF

② PRN[¥r] :Set priority function
PRF[¥r] :Priority function OFF

Radio \rightarrow Controller

① PRN[¥r] :Priority is ON
PRF[¥r] :Priority is OFF

2 0K[¥r]

This command instructs the unit to turn or confirm PRIORITY function ON/OFF.

<COMMAND QU>

ON/OFF function which informs when squelch condition changes.

Controller \rightarrow Radio

①QU[¥r]:Confirm QU command active

 $\textcircled{2} \ \mathsf{QUN} [\mathsf{Yr}] \qquad \qquad : \mathsf{QU} \ \mathsf{command} \ \mathsf{ON}$

QUF[\(\frac{\pmax}{r}\)] : QU command OFF

Radio \rightarrow Controller

① QUN[¥r] :QU command is ON

QUF[Yr] : QU command is OFF

②0K[¥r]

While the function is ON, if the squelch condition becomes

·Close to open, unit sends +[Yr] to the controller.

•Open to close, unit sends -[\frac{1}{2}r] to the controller.

This command instructs the unit to turn the function ON/OFF. While the function is ON, the unit is monitoring the squelch condition and informs when it changes.

<COMMAND RF>

Confirm/Tune the commanded frequency.

Controller \rightarrow Radio

① RF@@@@@@@[\\r] or RF@@@@@@@?[\\r]

RF@@@@@@@ \$\$\$[\r] or RF@@@@@@@? \$\$\$[\r]

@@@@@@@ : Tuned frequency

\$\$(optional) : frequency round step

5K / 7. 5K / 10K / 12. 5K / 25K / 50K / 100K / AUTO

The order of the digits are from 1 GHz digit to 100 Hz digit.

<Example>

RF04060125[Yr] tuned receiver to 406.0125 MHz

RF00290050[\(\frac{\pmathbf{F}}{r}\)] tuned receiver to 29.0100MHz (rounded with default step)

RF00290050 5K[\frac{\frac}}}}}{\frac}}}}}}}{\frac}}{\firac{\frac{\frac{\frac{\fracc}\fir\f{\frac{\frac{\frac{\frac

if you wish to confirm the tuned frequency for this command response,

- a "?" code add after the commanded frequency.
- ② RF[¥r] :confirm tuned frequency

Radio \rightarrow Controller

- 1) OK[\(\frac{4}{r}\)] or RF@@@@@@@@[\(\frac{4}{r}\)]
- 2 RF@@@@@@@@[\r]

@@@@@@@@ : Tuned frequency

This command can be instantly tuned to a commanded frequency.

<COMMAND RG> Confirm /Set EDACS ID Range mode. Controller \rightarrow Radio (1) Confirm ID Range mode RG[¥r] 2 Set ID Range mode @@@ : EDACS id (Agency) RG @@@[¥r] RG @@@@[\forall [\forall RG @@@@ [\forall Fleet] | \text{Q@@@ | EDACS | id (Agency, Fleet)} <Example> RG 01-[\(\frac{4}{7}\)] or RG 01-01[\(\frac{4}{7}\)] 3 Clear ID Range mode RGF [¥r] Radio \rightarrow Controller 1 RGN[¥r] :Range mode ON RGF[¥r] :Range mode OFF ② 0K[¥r] 3 0K[¥r] <COMMAND RI> ON/OFF function which informs when priority receiving condition changes. Controller \rightarrow Radio :Confirm "RI" command active ① RI[¥r] :Activate "RI" command ② RIN[¥r] :Inactivate "RI" command RIF[¥r] Radio \rightarrow Controller "RI" command is ACTIVE ① RIN[¥r] :"RI" command is INACTIVE RIF[¥r] ② 0K[¥r]

While the function is ON.

- •if the unit stops on the priority channel by priority receiving, sends PST[\(\frac{4}{3}\)r to the controller.
- •if the unit returns from the priority channel, sends PRT[\u224r] to the controller.

This command instructs the unit to turn the function ON/OFF. While the function is ON, the unit is monitoring the priority receiving condition and informs when it changes.

<COMMAND RM>

Confirm/Set Receiver modulation .

Controller \rightarrow Radio

① RM[¥r] :Confirm Receiver modulation

2 RM @@@[\fr] :Set Receiver modulation

@@@ : Receiver modulation

ex)RM AM[\(\frac{4}{r}\)] AM RM NFM[\(\frac{4}{r}\)] Narrow band FM

RM WFM[\(\frac{1}{4}\rm \)] Wide band FM RM FM[\(\frac{1}{4}\rm \)] FM

RM AUTO[¥r] Set Default modulation

Radio → Controller

(1)RM @@@[\forall Er] @@@:Current Receiver modulation

ex) RM AM[Yr] AM RM NFM[Yr] Narrow band FM

RM WFM[¥r] Wide band FM RM FM[¥r] FM

RM ---[¥r] Not programmed frequency (OMHz)

② 0K[¥r]

This command instructs the unit to confirm receiver modulation.

<COMMAND SB>

Confirm/Select scan banks.

Controller \rightarrow Radio

①SB[¥r] :Confirm scan banks ②SB @%O···[¥r] :Select scan banks

@, %, O, · · · : bank name

<Example>

SB ACEGI[¥r]

Select "BANK A, C, E, G, I".

```
Radio \rightarrow Controller
                                                    ①、② SB @\%O···[\fmathbf{Y}r] @, \%, \bigcirc, ··· : bank name
                                                     <Example>
                                                                                                         SB ACEGI[\(\frac{4}{4}\rm \)] Selected scan banks are "BANK A, C, E, G, I".
                                                     This command instructs the unit to make designated scan banks be selected.
              <COMMAND SG>
Read the signal strength
             Controller \rightarrow Radio
                                                    1 SG[¥r]
                                                                                                                                                                                                                                                                           :Confirm signal strength
             Radio -> Controller
                                                   ①S$$$ F#######[Yr] $$$:A/D voltage value of Strength meter (0-255)
                                                                                                                                                      #######:tuned frequency
                                                     <Example>
                                                                                                        $147 F08510125[\(\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\fint}{\frac{\frac{\frac{\frac{\frac{\frac}\fint{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\fint{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}{\firac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}}}{\firac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}{\firac{\firac{\frac{\frac{\frac{\frac{\frac}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}{\firighta}}}}{\firac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fi
                                                   Note)
                                                                                           Voltage = (MicomVcc * $$$)/255 ex) Vcc:3.2V $$=147 (3.2 * 147)/255 = 1.84V
              <COMMAND SI>
              Confirm Scanner Information
             Controller \rightarrow Radio
                                                    SI[¥r]
             Radio → Controller
                                                     SI @@@@@@@, %%%%%%%%, &&&[\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{\footnote{
                                                                                                                                                                                   @@@@@@@ :Alphanumeric model Name/No.
                                                                                                                                                                                   %%%%%%%%% : Alphanumeric ESN No.
                                                                                                                                                                                   &&&
                                                                                                                                                                                                                                                           :Remote Command Version.
```

<Example>

SI BC780XLT, 1000000001, 103

This is the information string sent by the scanner to PC

<COMMAND SQ> Confirm squelch condition. Controller \rightarrow Radio SQ[¥r] Radio \rightarrow Controller +[¥r] :Now squelch is OPEN. -[¥r] :Now squelch is CLOSE. This command instructs the unit to send whether the squelch is OPEN or CLOSE. <COMMAND SS> Read a frequency in search skip memory. Register a frequency into search skip memory. Controller \rightarrow Radio (1) Read SS### ### : Search Skip Memory No. (001-200) ② Register SS@@@@@@@@[\r] @@@@@@@ : Frequency The order of the digits are from 1 GHz digit to 100 Hz digit. <Example> SSO4060125[¥r] Register 406.0125 MHz into search skip memory. Radio \rightarrow Controller (1) Read SS@@@@@@@@[¥r] @@@@@@@@ : Frequency <Example> SS04060125[¥r] Frequencies in search skip memory are "406.0125 MHz" 2 Register SS@@@@@@@@[\r] @@@@@@@@ : Frequency

<Example>

SS04060125[¥r] 406.0125 MHz is registered.

% If the frequency is already in search skip memory, the unit sends ON[Yr] to the controller.

This command instructs the unit

1)to send all the frequencies in search skip memory.

2to register a frequency into search skip memory.

<COMMAND ST>

Confirm / set frequency step

Controller \rightarrow Radio

① ST[¥r] :Confirm frequency step

② ST ###[¥r] :Set frequency step

###: 5K / 12.5K / 25K / 50K / 10K / 100K / 7.5K / AUTO

Radio \rightarrow Controller

① ST ###[¥r] :Inform frequency step

###: 5K / 12.5K / 25K / 50K / 10K / 100K / 7.5K

2 0K[¥r]

<COMMAND TA>

Confirm / Program alpha tag name

Controller \rightarrow Radio

① Confirm alpha tag name

TA C ###[¥r] :Confirm channel tag name

: Channel No. (001 - 500)

TA B \$[¥r] : Confirm bank tag name

\$: Bank No. (A - J)

TA L \$ &[\frac{1}{2}r] : Confirm ID LIST tag name

\$: Bank No. (A - J) &: Iist No. (A - J)

TA I \$ &%[\frac{\pmax}{2}r] : Confirm TALK ID tag name

\$: Bank No. (A - J) &: list No. (A - J)

%:Location No. (0 - 9)

TA S \$[\frac{2}{4}r] : Confirm Search Bank tag name

\$: search bank No. (A - J)

2 Program alpha tag name

TA C ### @@@@@@@@@@@@@@@@@@[\fr] :Program channel tag name

: Channel No. (001 - 500)

@@@@@@@@@@@@@@@@ :Alpha tag name (Max. 16igit)

TA B \$ @@@@@@@@@@@@@@@@@[\fr] :Program bank tag name

\$: Bank No. (A - J)

@@@@@@@@@@@@@@@ :Alpha tag name (Max. 16igit)

TA L \$ & @@@@@@@@@@@@@@@[\fr] :Program ID LIST tag name

\$: Bank No. (A - J) &: list No. (A - J)

@@@@@@@@@@@@@@@@ :Alpha tag name (Max. 16igit)

TA | \$ &% @@@@@@@@@@@@@@@[\fr] :Program TALK | ID tag name

\$: Bank No. (A - J) &: List No. (A - J)

%:Location No. (0 - 9)

@@@@@@@@@@@@@@@ :Alpha tag name (Max. 16igit)

TA S \$ @@@@@@@@@@@@@@@@@@[\fr] : Program Search Bank tag name

\$: Search bank No. (A - J)

@@@@@@@@@@@@@@@ :Alpha tag name (Max. 16igit)

3 Clear alpha tag name

TA C ### [¥r] :Clear channel tag name

: Channel No. (001 - 500)

TA B \$ [¥r] : Program bank tag name

\$: Bank No. (A - J)

TA L \$ & [\frac{1}{4}r] :Clear ID LIST tag name

\$: Bank No. (A - J) &: Iist No. (A - J)

TA I \$ &% [¥r] :Clear TALK ID tag name

\$: Bank No. (A - J) &: List No. (A - J)

%:Location No. (0 - 9)

TA S \$ [\frac{1}{4}r] : Clear Search Bank tag name

\$: Search bank No. (A - J)

Radio \rightarrow Controller

1 Informs alpha tag name

TA C ### @@@@@@@@@@@@@@[\fr] :Program channel tag name

: Channel No. (001 - 500)

@@@@@@@@@@@@@@@ :Alpha tag name (Max. 16igit)

```
TA B $ @@@@@@@@@@@@@@@@[\r]
                                               :Program bank tag name
                           $ : Bank No. (A - J)
                           @@@@@@@@@@@@@@@ :Alpha tag name (Max. 16igit)
          TA L $ & @@@@@@@@@@@@@@@[\r]
                                               :Program ID LIST tag name
                           $ : Bank No. (A - J) & : List No. (A - J)
                           @@@@@@@@@@@@@@@ :Alpha tag name (Max. 16igit)
          TA I $ &% @@@@@@@@@@@@@@@[\r]
                                               :Program TALK ID tag name
                           $ : Bank No. (A - J) & : List No. (A - J)
                           %:Location No. (0 - 9)
                           @@@@@@@@@@@@@@@ :Alpha tag name (Max. 16igit)
          TA S $ @@@@@@@@@@@@@@@@[\r]
                                               :Program Search Bank tag name
                           $ :Search bank No. (A - J)
                           @@@@@@@@@@@@@@@ :Alpha tag name (Max. 16igit)
      230K[¥r]
<COMMAND TB>
 Confirm Active Trunking bank
Controller \rightarrow Radio
      TB[¥r]
Radio \rightarrow Controller
      TB # @@@@@[¥r]
                       # : Active/Optional Trunking Bank
                       @@@@@ :Trunking Type
                               E2-800 (Motorola Type2 800MHz)
                               E2-900 (Motorola Type2 900MHz)
                               E2-VHI (Motorola Type2 VHI)
                               E2-UHF (Motorola Type2 UHF)
                               TYPE1 (Motorola Type1)
                               EDCS WIDE (WIDE BAND EDACS)
                               EDCS NARROW (NARROW BAND EDACS)
                               LT (LTR)
```

 $\langle Example \rangle$ TB A E2-800[¥r]

Active Bank: "A" Trunk Type: MOTOROLA TYPE2 800MHz

<COMMAND TC>

Confirm/Set Trunking with "CONTROL CH ONLY MODE" ON/OFF.

Controller \rightarrow Radio

① Confirm "CONTROL CH ONLY MODE" is ON or OFF

TC @[¥r]

@:Bank No.

2 Set "CONTROL CH ONLY MODE" to ON or OFF

TCN @ ##[\fr]

:Set "CONTROL CH ONLY MODE" to ON

@ :Bank No.

: CH assignment plan (optional) P1, P2, P3, P4

P1: Plan1 P2: Plan2 P3: Plan3 P4: Plan4

<Example>

TCN A P1[¥r]

TCF @[\fmathbb{Y}r] : set "CONTROL CH ONLY MODE" to OFF

Radio \rightarrow Controller

① TCN @ ##[¥r]

:CONTROL CH ONLY MODE" is ON

@:Bank No.

:CH assignment plan(optional) P1, P2, P3, P4

P1: Plan1 P2: Plan2 P3: Plan3 P4: Plan4

 $\langle Example \rangle$ TCN A P1[\(\frac{4}{4}\rrrr^2\)] or TCN A[\(\frac{4}{4}\rrrr^2\)]

TCF @[\frac{2}{2}r]CONTROL CH ONLY MODE" is OFF

② 0K[¥r]

<COMMAND TD> Confirm/Set Tone Detection function ON/OFF. Controller \rightarrow Radio 1) TD[¥r] :Confirm Tone Detection function ON/OFF TDN[¥r] :Tone Detection function ON :Tone Detection function OFF TDF[¥r] Radio \rightarrow Controller ① TDN[¥r] :Tone Detection function ON TDF[¥r] :Tone Detection function OFF ② 0K[¥r] This command instructs the unit to turn or confirm Tone Detection function ON/OFF. <COMMAND TG> Program Talk Group ID Controller \rightarrow Radio ① TG ? @%[\fr] :Confirm Programmed Talk Group IDs ? :Bank No. (A-J) @% :ID Memory No. 2 Program Talk Group IDs //// MOTOROLA TYPE1 //// TG ? @% &##-\$\$[\frac{\pmathbf{Y}}{r}] or TG ? @% &###-\$[\frac{\pmathbf{Y}}{r}] ? : Bank No. (A-J) @%: ID Memory No. @:ID Scan List (A-J) %:ID Location (1-9,0)&##-\$\$: Type1 ID & :Block No. (0-9) ## or ### :Fleet No. \$\$:Sub fleet No. <Example> TG A AO 001-05[Yr] ID in ID memory "BANK A-A10" is

"BLOCK=0, FLEET=1, SUBFLEET=5".

```
>> PROGRAM MOTOROLA TYPE1 I-CALL ID <<
        TG ? @% i#####[¥r]
                ? : Bank No. (A-J)
                @% : ID Memory No.
                       @:ID Scan List (A-J) \%:ID Location (1-9,0)
                i##### : I-CALL ID
          <Example>
            TG A AO i01234[\(\frac{1}{4}\)r] \quad ID in ID memory "BANK A-A10" is "i01234".
  >> PROGRAM MOTOROLA TYPE1 ALL I-CALL ID <<
        TG ? @% iO[\fr]
                ? : Bank No. (A-J)
                @%: ID Memory No.
                       @:ID Scan List (A-J) \%:ID Location (1-9,0)
                iO : ALL I-CALL ID Indication
//// MOTOROLA TYPE 2 ////
        TG ? @% ######[¥r]
                ? : Bank No. (A-J)
                @%: ID Memory No.
                      @:ID Scan List (A-J) \%:ID Location (1-9,0)
            ###### : Type2 ID
        <Example>
               TG A AO 001234[¥r] ID in ID memory "BANK A-A10" is "1234".
  >> PROGRAM MOTOROLA TYPE2 I-CALL ID <<
        TG ? @% 7#####[¥r]
                ? : Bank No. (A-J)
                @% :ID Memory No.
                       @:ID Scan List (A-J) \%:ID Location (1-9,0)
            7#### : I-CALL ID
          <Example>
            TG A AO 701234[\(\frac{1}{4}\)r] ID in ID memory "BANK A-A10" is "701234".
```

>> PROGRAM MOTOROLA TYPE2 ALL I-CALL ID <<

```
TG ? @% 700000 or TG ? @% i0[\fr]
                ? : Bank No. (A-J)
                @%: ID Memory No.
                      @:ID Scan List (A-J) \% :ID Location (1-9,0)
        700000 /i0 : ALL I-CALL ID Indication
//// LTR ////
        TG ? @% %$$###[¥r]
                ? : Bank No. (A-J)
                @% : ID Memory No.
                      @:ID Scan List (A-J) \%:ID Location (1-9,0)
            %$$### : LTR Talk Group ID
                   % : Area code (0.1)
                  $$ : Home Repeater No. (01-20)
                 ### : ID (000-254)
        <Example>
               TG A AO 001064[¥r]
          ID in ID memory "BANK A-A10" is "Area code: 0 Home Repeater No.: 01 ID: 64"
//// EDACS ////
        TG ? @% &&-##$[\fr]
                ? : Bank No. (A-J)
                @%: ID Memory No.
                      @:ID Scan List (A-J) \% :ID Location (1-9,0)
                &&-##$: Edacs Talk Group ID
                     && : Agency No.
                                      ## :Fleet No. $ :SUBFLEET No.
          <Example>
            TG A AO 01-025[¥r] AFS format
            TG A AO 000149[¥r] DECIMAL format
                ID in ID memory "BANK A-A10" is "AGENCY=01. FLEET=02. SUBFLEET=5"
  >> PROGRAM EDACS PARTIAL ID <<
        TG ? @% &&-[\pmure TG ? @% &&-##[\pmure r]
                ? : Bank No. (A-J)
                @%: ID Memory No.
                      @:ID Scan List (A-J) \%:ID Location (1-9,0)
                &&-: Edacs Partial Talk Group ID(All Agency)
              &&-##: Edacs Partial Talk Group ID(All Agency-Fleet)
                     && : Agency No. ## : Fleet No.
          <Example>
```

TG A AO 01-[\fr]
TG A AO 01-02[\fr]

>> PROGRAM EDACS I-CALL ID <<

TG ? @% i#####[¥r]

? : Bank No. (A-J)

@%: ID Memory No.

@:ID Scan List (A-J) %:ID Location (1-9,0)

i##### : I-CALL ID

<Example>

TG A AO i01234[\(\frac{1}{4}\rm r\)] ID in ID memory "BANK A-A10" is "i01234".

>> PROGRAM EDACS ALL I-CALL ID <<

TG ? @% iO[\fr]

? : Bank No. (A-J)

@%: ID Memory No.

@:ID Scan List (A-J) % :ID Location (1-9,0)

iO: ALL I-CALL ID Indication

Radio → Controller

(1)

//// MOTOROLA TYPE1 ////

TG ? @% &##-\$\$[\text{\text{Yr}}] or TG ? @% &###-\\$[\text{\text{Yr}}]

? : Bank No. (A-J)

@%: ID Memory No.

@:ID Scan List (A-J) %:ID Location (1-9,0)

&##-\$\$: Type1 ID

& :Block No. (0-9)

or ### :Fleet No.

\$\$:Sub fleet No.

<Example>

TG A AO 001-05[¥r] ID in ID memory "BANK A-A10" is "BLOCK=0, FLEET=1, SUBFLEET=5".

>> MOTOROLA TYPE1 I-CALL ID <<

TG ? @% i#####[¥r]

? : Bank No. (A-J)

@% : ID Memory No.

```
@:ID Scan List (A-J) \%:ID Location (1-9,0)
                i##### : I-CALL ID
          <Example>
            TG A AO i01234[\mbox{\em Fr}] ID in ID memory "BANK A-A10" is "i01234".
  >> MOTOROLA TYPE1 ALL I-CALL ID <<
        TG ? @% i00000[¥r]
                @%: ID Memory No.
                      @:ID Scan List (A-J) \%:ID Location (1-9,0)
            i00000 : ALL I-CALL ID Indication
//// MOTOROLA TYPE 2 ////
        TG ? @% ######[¥r]
                 ? : Bank No. (A-J)
                @%: ID Memory No.
                      @:ID Scan List (A-J) \%:ID Location (1-9,0)
            ###### : Type2 ID
        <Example>
               TG A AO 001234[\(\frac{1}{2}\)r] ID in ID memory "BANK A-A10" is "1234".
  >> MOTOROLA TYPE2 I-CALL ID <<
        TG ? @% 7####[¥r]
                 ?: Bank No. (A-J)
                @% :ID Memory No.
                      @:ID Scan List (A-J) %:ID Location (1-9,0)
            7##### : I-CALL ID
          <Example>
            TG A AO 701234[\frac{1}{2}r] ID in ID memory "BANK A-A10" is "701234".
   >> MOTOROLA TYPE2 ALL I-CALL ID <<
        TG ? @% 700000[¥r]
                 ?: Bank No. (A-J)
                @%: ID Memory No.
                      @:ID Scan List (A-J) \%:ID Location (1-9,0)
            700000 : ALL I-CALL ID Indication
```

```
//// LTR ////
        TG ? @% %$$###[¥r]
                  ? : Bank No. (A-J)
                 @%: ID Memory No.
                        @:ID Scan List (A-J) \%:ID Location (1-9,0)
             %$$### : LTR Talk Group ID
                    % : Area code (0, 1)
                   $$ : Home Repeater No. (01-20)
                  ### : ID (000-254)
        <Example>
                TG A AO 001064[¥r]
           ID in ID memory "BANK A-A10" is "Area code: 0 Home Repeater No.: 01 ID: 64"
//// EDACS ////
        TG ? @% &&-##$[¥r]
                  ? : Bank No. (A-J)
                 @%: ID Memory No.
                        @:ID Scan List (A-J) \% :ID Location (1-9,0)
                 &&-##$: Edacs Talk Group ID
                       && :Agency No. ## :Fleet No. $ :SUBFLEET No.
           <Example>
             TG A AO 01-025[¥r] AFS format
             TG A AO 000149[¥r] DECIMAL format
                  ID in ID memory "BANK A-A10" is "AGENCY=01, FLEET=02, SUBFLEET=5"
   >> EDACS PARTIAL ID <<
        TG ? @% &&----[\(\frac{\pmathbf{Y}}{r}\) or TG ? @% &&-\(\pmathbf{W}\) &&-\(\pmathbf{H}\)-[\(\pmathbf{Y}\)r]
                  ? : Bank No. (A-J)
                 @%: ID Memory No.
                        @:ID Scan List (A-J) \%:ID Location (1-9,0)
              &&---: Edacs Partial Talk Group ID(All Agency)
              &&-##-: Edacs Partial Talk Group ID(All Agency-Fleet)
                       && : Agency No. ## : Fleet No.
           <Example>
             TG A AO 01----[\frac{\text{Yr}}{}]
             TG A AO 01-02-[\frac{\text{Yr}}{}]
   >> EDACS I-CALL ID <<
```

```
TG ? @% i#####[¥r]
                        ?: Bank No. (A-J)
                       @%: ID Memory No.
                             @:ID Scan List (A-J) \%:ID Location (1-9,0)
                   i##### : I-CALL ID
                 <Example>
                   TG A AO i01234[\(\frac{1}{4}\)r] ID in ID memory "BANK A-A10" is "i01234".
         >> EDACS ALL I-CALL ID <<
              TG ? @% i00000[¥r]
                        ? : Bank No. (A-J)
                       @%: ID Memory No.
                             @:ID Scan List (A-J) \%:ID Location (1-9,0)
                   i00000 : ALL I-CALL ID Indication
      ② 0K[¥r]
<COMMAND TR>
 Set Trunking on a bank of channels.
Controller \rightarrow Radio
      TR & # %%%%%%% $$$$ ??? X[\forall r]
                       & : A-J For bank selection.
                       # : 1, 2, 3, 4, 5, 6, 7 Trunking type.
                                1:Type1, 2:Type2-800, 3:Type2-900, 4:Type2-UHF,
                                5:Type2-VHF 6:WIDE BAND EDACS 7:NARROW BAND EDACS 8:LTR
                       %%%%%%%%%
                                Base frequency (Motorola UHF/VHF band only).
                       $$$$
                                Spacing (Motorola UHF/VHF band only)
                               The multiple of 5.0 kHz: 0050*n(1-20)
                               The multiple of 12.5 kHz: 0125*n(1-8)
                               The multiple of 7.5 \text{ kHz} 0075*n(1-13)
                       ??? (option)
                               Offset Channel (Motorola UHF/VHF band only)
                               380~759
                       X (option)
                               Base Configuration No.
```

1 or 2 or 3

Radio \rightarrow Controller OK[Yr]

<COMMAND VR>

Confirm the version of the Product.

Controller \rightarrow Radio

VR[¥r]

Radio \rightarrow Controller

VR@ . @@[Yr] @ . @@ : The version of the Product

<Example>

VR1.01[¥r] The version of the Product is 1.01

Note) This value is not the version No. of the software.

<COMMAND WA>

ON/OFF function which informs when the alert message receives.

Controller \rightarrow Radio

① WA[¥r] :Confirm WA command active

② WAN[¥r] : WA command is ON, and WX alert ON

WAF[\(\frac{\pmax}{r}\)] : WA command OFF, and Wx alert OFF

Radio \rightarrow Controller

① WAN[¥r] :WA command is ON

WAF[Yr] : WA command is OFF

② OK[¥r] : Command OK

While the function is ON, when detect the same or wx alert,

the unit sends the alert message to the controller:

<COMMAND WI>

Read the window voltage.

Controller \rightarrow Radio

WI[¥r]

Radio \rightarrow Controller

W@@@ F%%%%%%%[\forall \(\) @@@ :Window voltage

%%%%%%% : Frequency

Window voltage ranges from a minimum value of "000" to a maximum value of "255". The order of the frequency digits are from 1 GHz digit to 100 Hz digit.

<Example>

W155 F04060125[\(\frac{4}{1}\)] Window voltage is "155", and its frequency is "406.0125 MHz".

This command instructs the unit to send the current window voltage and its frequency.

CTCSS/DCS No. Table

No.

```
000/ CTCSS/DCS not programmed
```

```
No.
                                                            No.
                                        No.
001/ CTCSS: 67.0 011/ CTCSS: 97.4
                                                            031/ CTCSS: 192.8
                                       021/ CTCSS: 136.5
002/ CTCSS: 71.9 012/ CTCSS: 100.0
                                       022/ CTCSS: 141.3
                                                            032/ CTCSS: 203.5
003/ CTCSS: 74.4 013/ CTCSS: 103.5
                                       023/ CTCSS: 146.2
                                                            033/ CTCSS: 210.7
004/ CTCSS: 77.0 014/ CTCSS: 107.2
                                       024/ CTCSS: 151.4
                                                            034/ CTCSS: 218.1
005/ CTCSS: 79.7
                   015/ CTCSS: 110.9
                                       025/ CTCSS: 156.7
                                                            035/ CTCSS: 225.7
                                       026/ CTCSS: 162.2
006/ CTCSS: 82.5
                   016/ CTCSS: 114.8
                                                            036/ CTCSS: 233.6
007/ CTCSS: 85.4
                   017/ CTCSS: 118.8
                                       027/ CTCSS: 167.9
                                                            037/ CTCSS: 241.8
008/ CTCSS: 88.5
                   018/ CTCSS: 123.0
                                       028/ CTCSS: 173.8
                                                            038/ CTCSS: 250.3
009/ CTCSS: 91.5
                   019/ CTCSS: 127.3
                                       029/ CTCSS: 179.9
010/ CTCSS: 94.8 020/ CTCSS: 131.8
                                       030/ CTCSS: 186.2
No.
                    No.
                                        No.
                                                            No.
039/ DCS:
            23
                   049/ DCS:
                                54
                                        059/ DCS:
                                                    125
                                                            069/ DCS:
                                                                         165
040/ DCS:
                   050/ DCS:
                                       060/ DCS:
                                                            070/ DCS:
            25
                                65
                                                    131
                                                                         172
                                                            071/ DCS:
041/ DCS:
                   051/ DCS:
                                       061/ DCS:
                                                                         174
            26
                                71
                                                    132
042/ DCS:
                   052/ DCS:
                                72
                                       062/ DCS:
                                                    134
                                                            072/ DCS:
                                                                         205
            31
043/ DCS:
                   053/ DCS:
                                       063/ DCS:
                                                            073/ DCS:
                                                                         212
            32
                                73
                                                    143
044/ DCS:
                   054/ DCS:
                                       064/ DCS:
                                                            074/ DCS:
                                                                         223
            36
                                74
                                                    145
045/ DCS:
                   055/ DCS:
                                       065/ DCS:
                                                            075/ DCS:
                                                                         225
            43
                                114
                                                    152
046/ DCS:
                   056/ DCS:
                                       066/ DCS:
                                                            076/ DCS:
            47
                                115
                                                    155
                                                                         226
047/ DCS:
                   057/ DCS:
                                       067/ DCS:
                                                            077/ DCS:
                                                                         243
            51
                                116
                                                    156
048/ DCS:
            53
                   058/ DCS:
                                122
                                       068/ DCS:
                                                    162
                                                            078/ DCS:
                                                                         244
No.
                    No.
                                       No.
                                                            No.
079/ DCS:
                                       099/ DCS:
                                                            109/ DCS:
            245
                   089/ DCS:
                                274
                                                    356
                                                                         445
080/ DCS:
                   090/ DCS:
                                        100/ DCS:
                                                            110/ DCS:
                                                                         446
            246
                                306
                                                    364
081/ DCS:
                                        101/ DCS:
                                                            111/ DCS:
            251
                   091/ DCS:
                                311
                                                    365
                                                                         452
082/ DCS:
                   092/ DCS:
                                        102/ DCS:
                                                            112/ DCS:
                                                                         454
            252
                                315
                                                    371
083/ DCS:
            255
                   093/ DCS:
                                325
                                        103/ DCS:
                                                    411
                                                            113/ DCS:
                                                                         455
084/ DCS:
                                        104/ DCS:
                   094/ DCS:
                                                            114/ DCS:
            261
                                331
                                                    412
                                                                         462
085/ DCS:
                   095/ DCS:
                                332
                                        105/ DCS:
                                                            115/ DCS:
                                                                         464
            263
                                                    413
                                        106/ DCS:
086/ DCS:
            265
                   096/ DCS:
                                343
                                                    423
                                                            116/ DCS:
                                                                         465
                                        107/ DCS:
                                                            117/ DCS:
087/ DCS:
            266
                   097/ DCS:
                                346
                                                    431
                                                                         466
088/ DCS:
                   098/ DCS:
                                        108/ DCS:
                                                            118/ DCS:
                                                                         503
            271
                                351
                                                    432
No.
                    No.
                                        No.
                                       139/ DCS:
119/ DCS:
                                                    732
            506
                   129/ DCS:
                                627
120/ DCS:
                   130/ DCS:
                                        140/ DCS:
                                                    734
            516
                                631
121/ DCS:
            523
                   131/ DCS:
                                632
                                       141/ DCS:
                                                    743
122/ DCS:
                   132/ DCS:
                                       142/ DCS:
            526
                                654
                                                    754
123/ DCS:
                   133/ DCS:
            532
                                662
124/ DCS:
            546
                   134/ DCS:
                                664
125/ DCS:
                   135/ DCS:
            565
                                703
126/ DCS:
            606
                   136/ DCS:
                                712
127/ DCS:
            612
                   137/ DCS:
                                723
                   138/ DCS:
128/ DCS:
            624
                                731
```