

## Set Mode

Set mode option No./ setting Item	Description of function	Setting Item (Bold letters: Default)	Reference page
9-6 APRS MSG GROUP	Set group filter for receiving messages.	G1: <b>ALL</b> ***** G2: CQ****** G3: QST***** G4: YAESU**** G5: B1: BLN***** B2: BLN* B3: BLN*	—
9-7 APRS MSG TXT	Enter standard message text 1 to 7ch	1 to 8 ch	—
9-8 APRS MUTE	Turn on/off the B-band AF muting function when APRS is set.	ON / <b>OFF</b>	—
9-9 APRS POPUP	Set such as a beacon type, message type and time for pop-up display.	Mic-E: OFF / ALL2s to ALL60s / ALLCNT / BND2s to BND60s / BNDCNT <b>ALL10s</b> POSITION: OFF / ALL2s to ALL60s / ALLCNT / BND2s to BND60s / BNDCNT <b>ALL10s</b> WEATHER: OFF / ALL2s to ALL60s / ALLCNT / BND2s to BND60s / BNDCNT <b>ALL10s</b> OBJECT: OFF / ALL2s to ALL60s / ALLCNT / BND2s to BND60s / BNDCNT <b>ALL10s</b> ITEM: OFF / ALL2s to ALL60s / ALLCNT / BND2s to BND60s / BNDCNT <b>ALL10s</b> STATUS: OFF / ALL2s to ALL60s / ALLCNT / BND2s to BND60s / BNDCNT <b>ALL10s</b> OTHER: OFF / ALL2s to ALL60s / ALLCNT / BND2s to BND60s / BNDCNT <b>ALL10s</b> MY PACKET: OFF / ALL2s to ALL60s / ALLCNT / BND2s to BND60s / BNDCNT <b>ALL10s</b> MSG: OFF / ALL2s to ALL60s / ALLCNT / BND2s to BND60s / BNDCNT <b>ALL10s</b>	—

**Set Mode**

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9-9 APRS POPUP	Set the beacon type, the message type and the time of the popup display.	GRP: OFF / ALL2s to ALL60s / ALLCNT / BND2s to BND60s / BNDCNT <b>ALL10s</b> BLN: OFF / ALL2s to ALL60s / ALLCNT / BND2s to BND60s / BNDCNT <b>ALL10s</b> MY MSG: OFF / BND2s to BND60s / <b>BND10s</b> DUP.BCN: OFF / BND2s to BND60s / <b>BND10s</b> DUP.MSG: OFF / BND2s to BND60s / <b>BND10s</b> ACK.REJ: OFF / BND2s to BND60s / <b>BND10s</b> OTHER MSG: OFF / BND2s to BND60s / <b>BND10s</b>	-
9-10 APRS RINGER	Turn on/off the bell when a beacon is received.	Mic-E: <b>ON</b> / OFF POSITION: <b>ON</b> / OFF WEATHER: <b>ON</b> / OFF OBJECT: <b>ON</b> / OFF ITEM: <b>ON</b> / OFF STATUS: <b>ON</b> / OFF OTHER: <b>ON</b> / OFF MY PACKET: <b>ON</b> / OFF MSG: <b>ON</b> / OFF GRP: <b>ON</b> / OFF BLN: <b>ON</b> / OFF MY MSG: <b>ON</b> / OFF DUP.BCN: <b>ON</b> / OFF DUP.MSG: <b>ON</b> / OFF ACK.REJ: <b>ON</b> / OFF OTHER MSG: <b>ON</b> / OFF TX BCN: <b>ON</b> / OFF TX MSG: <b>ON</b> / OFF	-
9-11 APRS UNIT	Select the units for APRS display.	Position: <b>MM.MM'</b> / MM'SS' Distance: km / <b>mile</b> Speed: km/h / knot / <b>mph</b> Altitude: m / <b>ft</b> Temp: °C / <b>°F</b> Rain: mm / <b>inch</b> Wind: m/s / <b>mph</b>	-
9-12 APRS TX DELAY	Set the data sending delay time.	100ms / 150ms / 200ms / 250ms / <b>300ms</b> / 400ms / 500ms / 750ms / 1000ms	-

Functions Used As Needed

## Set Mode

Set mode option No./ setting Item	Description of function	Setting Item (Bold letters: Default)	Reference page
9-13 BEACON INFO	Set the transmission beacon information.	AMBIGUITY: <b>OFF</b> / 1 dig to 4dig SPD / CSE: <b>ON</b> / OFF ALTITUDE: <b>ON</b> / OFF	–
9-14 BEACON INTERVAL	Set a beacon automatic sending interval.	30sec / 1min / 2min / 3min / <b>5min</b> / 10min / 15min / 20min / 30min / 60min	–
9-15 BEACON STATS TXT	Input setting for status text.	S.TXT: <b>ON</b> / OFF TX RATE: <b>1/1</b> to 1/8 1 to 5 CH	–
9-16 BEACON TX	Select automatic or manual sending of beacon.	AUTO / <b>MANUAL</b> / SMART	–
9-17 COM PORT SETTING	Set the COM port.	STATUS: <b>ON</b> / OFF SPEED: 4800 / <b>9600</b> / 19200 / 38400 INPUT: <b>OFF</b> / GPS OUTPUT: <b>OFF</b> / GPS / WAY.P WAYPOINT: <b>NMEA9</b> / NMEA6 / NMEA7 / NMEA8 Mic-E: <b>ON</b> / OFF POSIT: <b>ON</b> / OFF WEATHER: <b>ON</b> / OFF OBJECT: <b>ON</b> / OFF ITEM: <b>ON</b> / OFF	–
9-18 DIGI PATH	Select a digital repeater route.	P1 OFF P2 1 WIDE1-1 <b>P3 1 WIDE1-1 / 2 WIDE2-1</b> P4 1 ..... / 2 ..... P5 1 ..... / 2 ..... P6 1 ..... / 2 ..... P7 1 ..... / 2 ..... P8 1 ..... to 8 .....	–
9-19 GPS DATUM	Select a datum used for the GPS function.	<b>WGS-84</b> / Tokyo Mean / Tokyo Japan / Tokyo Korea / Tokyo Okinawa	–
9-20 GPS POWER	Turn on/off the GPS function.	<b>GPS ON</b> / GPS OFF	–
9-21 GPS TIME SET	Turn on/off the GPS time and date automatic acquisition function.	<b>AUTO</b> / MANUAL	–
9-22 GPS UNIT	Select the units for GPS display.	Position: . <b>MMM</b> ' / 'SS" Speed: km/h / Knot / <b>mph</b> Altitude: m / <b>ft</b>	–
9-23 CALLSIGN (APRS)	Specify the callsign of your station.	–	–
9-24 MY POSITION	Set the position for your station.	<b>GPS</b> / Lat N * ** * * * * * / LON * ** * * * * * P1 to P10	–
9-25 MY SYMBOL	Set the symbol for your station.	45 Icon	–






## Set Mode

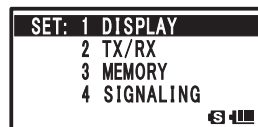
Set mode option No./ setting Item	Description of function	Setting Item (Bold letters: Default)	Reference page
<b>9-26 POSITION COMMENT</b>	Set up the position comment function.	<b>Off Duty</b> / En Route / In Service / Returning / Committed / Special / Priority / Custom 0 to 6 / EMERGENCY!	-
<b>9-27 SmartBeaconing</b>	Set the smart beaconing function.	STATUS: <b>OFF</b> / TYPE1 / TYPE2 / TYPE3 LOW SPD: 2mph to 30mph HIGH SPD: 31mph to 90mph SLOW RATE: 1min to 100min FAST RATE: 10sec to 180sec TURN ANGL: 5° to 90° TURN SLOP: 1 to 255 TURN TIME: 5sec to 180sec	-
<b>9-28 TIME ZONE</b>	Set the time zone.	UTC ±13.0 H / <b>UTC+0:00</b>	-
* For more details of functions, refer to the APRS Section in the instruction manual.			
<b>10 SD CARD</b>			
<b>10-1 BACKUP</b>	Write or read the information about your transceiver into or from the micro SD memory card.	Write to SD / Read from SD	138
<b>10-2 MEMORY CH</b>	Write or read the memory channel information into or from the micro SD memory card.	Write to SD / Read from SD	138
<b>10-3 GROUP ID</b>	Write or read GROUP ID information into or from the micro SD memory card.	Write to SD / Read from SD	139
<b>10-4 FORMAT</b>	Format the micro SD memory card.	Format	24
<b>11 OPTION</b>			
<b>11-1 USB CAMERA</b>	Set the USB CAMERA image size and resolution.	SIZE: <b>160</b> ×120 / 320×240 QUALITY: <b>LOW</b> / NORMAL / HIGH	140
<b>12 CALLSIGN</b>	Set the CALLSIGN.	-	141

## Displaying the GPS screen.

When using the GPS function, you can display the GPS information on the LCD.

### Enter the Set mode:

- 1 Press and hold  for over 1 second.
- 2 Turn  to select [1 DISPLAY].
- 3 Press .
- 4 Turn  to select [1 GPS INFO].
- 5 Press  to display the GPS information on the LCD.










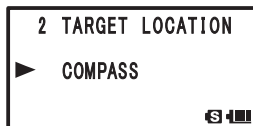
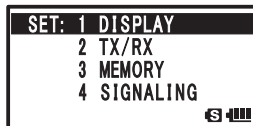
## Set Mode

### Setting the display method of the remote station information

Set the display method of the remote station information when using the GM Function.

#### Enter the Set mode:

- 1 Press and hold  for over 1 second.
- 2 Turn  to select [1 DISPLAY].
- 3 Press .
- 4 Turn  to select [2 TARGET LOCATION].
- 5 Press .
- 6 Turn  to select the display method.  
 COMPASS: Compass appears.  
 NUMERIC: Longitude and latitude appear.
- 7 Press  to set the selected display method, and exit from the Set mode.










#### Caution

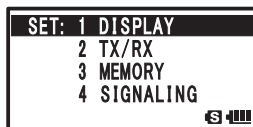
When the NUMERIC is selected, only the location information of the remote station appears on the LCD. The BACKTRACK function is not activated.

### Setting the display method for BACKTRACK

You can set the BACKTRACK screen display method.

#### Enter the Set mode:

- 1 Press and hold  for over 1 second.
- 2 Turn  to select [1 DISPLAY].
- 3 Press .
- 4 Turn  to select [3 COMPASS].
- 5 Press .
- 6 Turn  to select the display method.  
 HEADING UP: Heading direction is indicated upward.  
 NORTH UP: North direction is indicated upward.
- 7 Press  to save the selected display setting and exit the set mode.










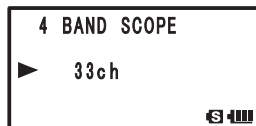
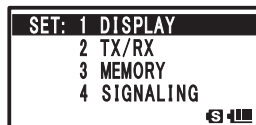
## Set Mode

### Setting the search channels for the BAND SCOPE function

You can set the number of channels to be displayed for the band scope when the BAND SCOPE function is used.

#### Enter the Set mode:







- 1 Press and hold  for over 1 second.
  - 2 Turn  to select [1 DISPLAY].
  - 3 Press .
  - 4 Turn  to select [4 BAND SCOPE].
  - 5 Press .
  - 6 Turn  to select the number of channels to search for.  
11ch / 19ch / 33ch / 49ch / 101ch
- Remark** Default: 33ch
- 7 Press  to set the number of channels to search for, and exit the Set mode.




### Changing the Lighting Condition

You can change the LCD and key lighting condition.

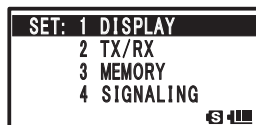
#### Enter the Set mode:

- 1 Press and hold  for over 1 second.
- 2 Turn  to select [1 DISPLAY].
- 3 Press .
- 4 Turn  to select [5 LAMP].
- 5 Press .
- 6 Turn  to select a lighting condition.  
Select a lighting condition with reference to the following table:

Display	Lighting Condition
2 SEC (KEY) to 10 SEC (KEY)	When  dial or a key is pressed, the LCD and keys light up for the set time.
CONTINUOUS	The LCD and keys light up continuously.
OFF	The LCD and keys do not light.

**Remark** Default: Key, 5 seconds

- 7 Press  to save the lighting condition, and exit the Set mode.










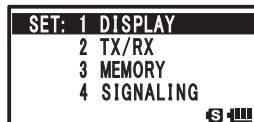
## Set Mode

### Selecting a Display Language

You can select a display language from Japanese and English.

#### Enter the Set mode:








- 1 Press and hold  for over 1 second.
  - 2 Turn  to select [1 DISPLAY].
  - 3 Press .
  - 4 Turn  to select [6 LANGUAGE].
  - 5 Press .
  - 6 Turn  to select a language.  
 Select [JAPANESE] or [ENGLISH].
- Remark** Default: Japanese
- 7 Press  to save the selected display language, and exit the Set mode.

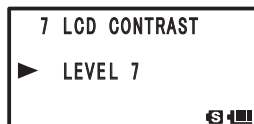
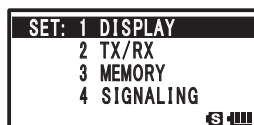


### Adjusting the LCD Contrast Level

You can adjust the LCD contrast level.

#### Enter the Set mode:








- 1 Press and hold  for over 1 second.
  - 2 Turn  to select [1 DISPLAY].
  - 3 Press .
  - 4 Turn  to select [7 LCD CONTRAST].
  - 5 Press .
  - 6 Turn  to select a contrast level.  
 Select from among LEVEL 1 (LIGHT) to LEVEL 15 (DARK).
- Remark** Default: LEVEL 7
- 7 Press  to save the selected contrast, and exit the Set mode.

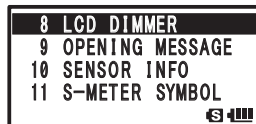
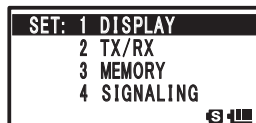


## Adjusting the LCD Backlight and Keypad Key Light Brightness Level

You can adjust the brightness level of the LCD backlight and keypad key light.

### Enter the Set mode:






- 1 Press and hold  for over 1 second.
  - 2 Turn  to select [1 DISPLAY].
  - 3 Press .
  - 4 Turn  to select [8 LCD DIMMER].
  - 5 Press .
  - 6 Turn  to select a brightness level.  
 You can select from LEVEL 1 (DARK) to LEVEL 6 (BRIGHT).
- Remark** Default: LEVEL 6
- 7 Press  to save the selected display brightness level, and exit the Set mode.

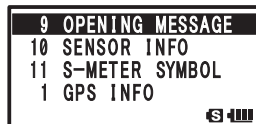
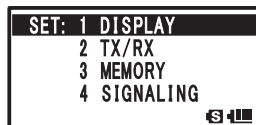


## Changing the Opening Message Displayed Immediately after Power-on

You can select the message displayed under the “YAESU” logo from among four types: “no message”, “power supply voltage”, “message comprising up to 16 characters”, and “callsign”.

### Enter the Set mode:

- 1 Press and hold  for over 1 second.
- 2 Turn  to select [1 DISPLAY].
- 3 Press .
- 4 Turn  to select [9 OPENING MESSAGE].
- 5 Press .






## Set Mode

- 6 Turn  to select the display method.

Select a message type with reference to the following table:

**Remark** Default: CALLSIGN



Display	Display Condition
NORMAL	The YAESU logo appears immediately after power-on.
OFF	Immediately after power-on, the reception frequency, etc. appear without displaying an opening message.
DC	The power supply voltage and time appear immediately after power-on.
MESSAGE	A message comprising up to 16 characters appears immediately after power-on. Pressing  displays the message registration screen. Enter a message to be displayed following the procedure described in "Assigning a Name to a Memory Channel" (See page 47).
CALLSIGN	Your callsign appears immediately after power-on.








- 7 Press  to save the selected display method, and exit from the Set mode.


## Measuring the Battery Voltage and the Transceiver Temperature Power Supply Voltage Measurement Function/Temperature Measurement Function



You can measure the battery voltage and the temperature inside the transceiver. When the optional external power supply adapter with a cigarette plug (SDD-13) is connected, the power supply voltage of this adapter is measured.

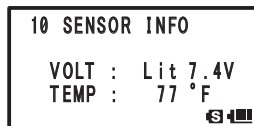
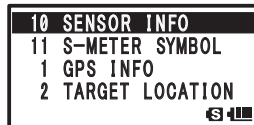
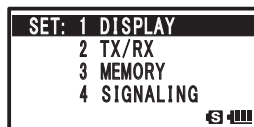
### Enter the Set mode:

- Press and hold  for over 1 second.
- Turn  to select [1 DISPLAY].
- Press .
- Turn  to select [10 SENSOR INFO].
- Press .

The voltage and temperature appear on the LCD.

**Remark** When the temperature appears on the LCD, pressing  toggles the unit of temperature display between °C and °F.

- Press .
- Press  to exit from the Set mode.












## Tips

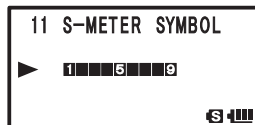
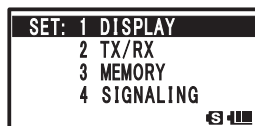
- The display changes as follows depending on the type of the power supply used.  
 Battery pack: "Lit"  
 Battery case: "Dry"  
 External power supply adapter: "Ext"
- During mono band reception, the voltage can be displayed on the LCD constantly (See page 27).
- This function displays the temperature inside the transceiver.
- In a situation where the temperature inside of the transceiver does not rise (e.g., standby reception), you can know the approximate outside temperature from the temperature displayed on the LCD.

## Changing the Display Pattern of the PO Meter

You can select a display pattern of the S/PO meter from among four types.

### Enter the Set mode:

- 1 Press and hold  for over 1 second.
  - 2 Turn  to select [1 DISPLAY].
  - 3 Press .
  - 4 Turn  to select [11 S-METER SYMBOL].
  - 5 Press .
  - 6 Turn  to select a display pattern.  

- Remark** Default: 
- 7 Press  to save the selected display pattern, and exit from the Set mode.






## Switching between AM Antennas

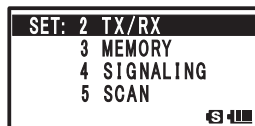
You can switch antennas when listening to AM broadcast stations.  
 For details, see "Switching between AM Antennas" on page 33.

## Reducing receiver sensitivity Attenuator (ATT) Function







If the signal from the remote station is too strong or, a strong signal is present nearby that interferes with reception, use the attenuator (ATT) function.

### Enter the Set mode:

- 1 Press and hold  for over 1 second.
- 2 Turn  to select [2 TX/RX].
- 3 Press .



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- 4 Turn  to select [1 MODE].
  - 5 Press .
  - 6 Turn  to select [2 ANTENNA ATT].
  - 7 Press .
  - 8 Turn  to select [ON].
- Remark** Default: OFF
- 9 Press  to save the attenuator function setting, and exit the Set mode.












### Tip

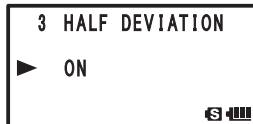
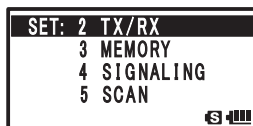
- The amount of attenuation by the attenuator (ATT) is about 10 dB.

## Setting the transmission modulation level

You can set the transmission modulation level to half of its usual level.  
 Set [OFF] for normal amateur operation.

### Enter the Set mode:

- 1 Press and hold  for over 1 second.
  - 2 Turn  to select [2 TX/RX].
  - 3 Press .
  - 4 Turn  to select [1 MODE].
  - 5 Press .
  - 6 Turn  to select [3 HALF DEVIATION].
  - 7 Press .
  - 8 Turn  to select [ON].
- Remark** Default: OFF
- 9 Press  to save the transmission modulation level is set, and exit the Set mode.


















## Changing the mode manually

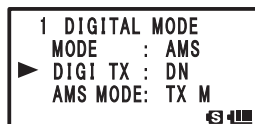
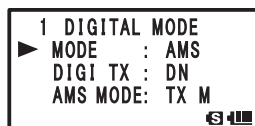
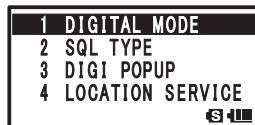
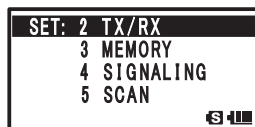
Manually switch to an optimum mode (radio wave type) according to the frequency band. For more details, see “Changing the Mode Manually” on page 38.

## Switching between digital and analog mode

You can set digital and analog mode switching and digital transmission mode.

### Enter the Set mode:











- 1 Press and hold  for over 1 second.
- 2 Turn  to select [2 TX/RX].
- 3 Press .
- 4 Turn  to select [2 DIGITAL].
- 5 Press .
- 6 Turn  to select [1 DIGITAL MODE].
- 7 Press .
- 8 Turn  to select [MODE].
- 9 Press .
- 10 Turn  to select your desired mode.  
 DIGITAL: Transmit and receive in the digital mode.  
 ANALOG: Transmit and receive in the analog mode.  
 AMS (Automatic Mode Select):  
 Tune to the transmission and reception mode of the remote station from which a signal is automatically received.
- 11 Press .
- 12 Turn  to select [DIGI TX].
- 13 Press .
- 14 Turn  to select a reception mode.  
 DN: Usual digital communication mode. Conversation is infrequently interrupted even under low power level.  
 VW: (Voice Wide) Full rate high quality sound mode This is the transmission function to prioritize the sound quality when the communication condition of the remote station is relatively good.
- 15 Press  to save the setting and exit the Set mode.



## Set Mode

### Setting the AMS transmission mode

When operating in the AMS function, the transmit mode may be selected:

- 1 Press and hold  for over 1 second.
- 2 Turn  to select [2 TX/RX].
- 3 Press .
- 4 Turn  to select [2 DIGITAL].
- 5 Press .
- 6 Turn  to select [1 DIGITAL MODE].
- 7 Press .
- 8 Turn  to select [AMS MODE].
- 9 Press .
- 10 Turn  to select the AMS transmit mode.

**TX M:** The operating mode is automatically selected from four communication modes to match the received signal. Pressing the Microphone [PTT] momentarily, toggles between the Digital and Analog communication modes.

**TX FM:** The RX mode is automatically selected from the four communication modes to match the received signal. The TX mode is automatically changed to the "FM" mode.


**TX DN:** The RX mode is automatically selected from the four communication modes to match the received signal. The TX mode is automatically changed to the "DN" mode.

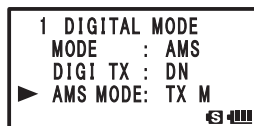
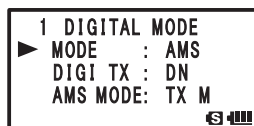
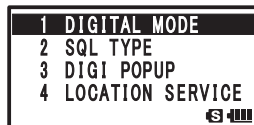
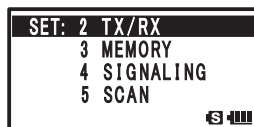
**TX VW:** The RX mode is automatically selected from the four communication modes to match the received signal. The TX mode is automatically changed to the "VW" mode.

**AUTO:** The RX and TX operating mode is automatically selected from the four communication modes to match the received signal.

- Remarks**
- Default: TX M
  - Blink "I" : TX M
  - Blink "IOO" : TX FM / TX DN / TX VW

The OO symbol display differs according to the received signal.















- 11 Press  to save the setting and exit the Set mode.




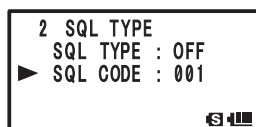
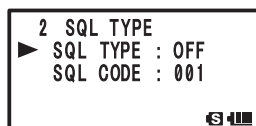
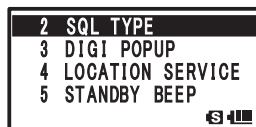
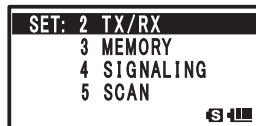
## Setting the squelch type for the digital mode

You can set the squelch type for the digital mode.

### Enter the Set mode:

- 1 Press and hold  for over 1 second.
- 2 Turn  to select [2 TX/RX].
- 3 Press .
- 4 Turn  to select [2 DIGITAL].
- 5 Press .
- 6 Turn  to select [2 SQL TYPE].
- 7 Press .
- 8 Turn  to select [SQL TYPE].
- 9 Press .
- 10 Turn  to select a squelch type.
  - OFF: Voice is always output upon receiving a digital signal from a Yaesu transceiver.
  - CODE: Voice is output only when receiving a signal with a corresponding SQL CODE.
  - BREAK: Voice is output regardless of any squelch code when the remote station transmits with BREAK set.
- 11 Press .
- 12 Turn  to select [SQL CODE].
- 13 Press .
- 14 Turn  to enter a code.
 






You can enter SQL CODE of 126 types from 001 to 126.
- 15 Press  to save the SQL CODE setting and exit the Set mode.

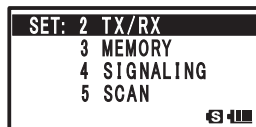


## Setting the pop up time of the remote station information




You can set the time duration to display the remote station information, such as call sign, on the LCD.

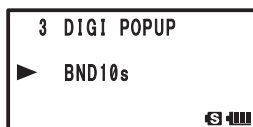
### Enter the Set mode:

- 1 Press and hold  for over 1 second.
- 2 Turn  to select [2 TX/RX].
- 3 Press .
- 4 Turn  to select [2 DIGITAL].
- 5 Press .



## Set Mode

- 6 Turn  to select [3 DIGI POPUP].
- 7 Press .
- 8 Turn  to select the display method.  
 OFF: Does not display the remote station information.  
 BND2s to 60s: Set the time to display the remote station information (2 to 60 seconds).  
 BNDCNT: Always display the remote station information.











**Remark** Default: 10 seconds

- 9 Press  to save the pop up time setting and exit the Set mode.

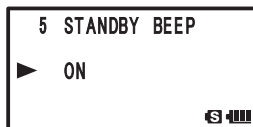
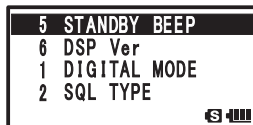
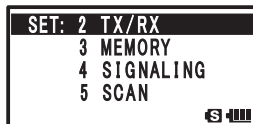
## Setting the Standby Beep

When communicating in a digital mode, a beep is sounded after the end of the other stations transmission.

- 1 Press and hold  for over 1 second.
- 2 Turn  to select [2 TX/RX].
- 3 Press .
- 4 Turn  to select [2 DIGITAL].
- 5 Press .
- 6 Turn  to select [5 STANDBY BEEP].
- 7 Press .
- 8 Turn  to select [OFF]/[ON].  
 OFF: Disable the STANDBY BEEP feature.  
 ON: Enable the STANDBY BEEP feature.

**Remark** Default: ON









- 9 Press  to exit from the Set mode.

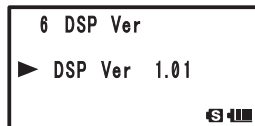
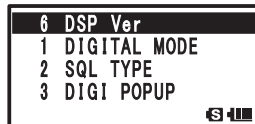
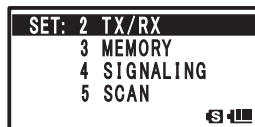


## Displaying the version of the DSP program

You can check the DSP program version of the built in digital unit of the transceiver.

**First enter the digital mode, and then enter the Set mode:**










- 1 Press and hold  for over 1 second.
  - 2 Turn  to select [2 TX/RX].
  - 3 Press .
  - 4 Turn  to select [2 DIGITAL].
  - 5 Press .
  - 6 Turn  to select [6 DSP Ver].
  - 7 Press .
- The version of the DSP program appears on the LCD.
- 8 Press  to exit from the Set mode.

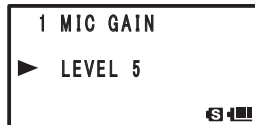
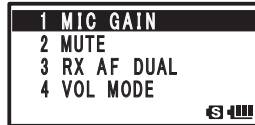
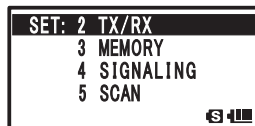


## Adjusting the microphone sensitivity — Microphone Gain

You can adjust the input level of the built-in microphone or an optional external microphone.

**Enter the Set mode:**

- 1 Press and hold  for over 1 second.
  - 2 Turn  to select [2 TX/RX].
  - 3 Press .
  - 4 Turn  to select [3 AUDIO].
  - 5 Press .
  - 6 Turn  to select [1 MIC GAIN].
  - 7 Press .
  - 8 Turn  to select a microphone sensitivity level.  
 Select a microphone gain level from the following:  
 LEVEL 1 (Lowest sensitivity) to LEVEL 9 (Highest sensitivity)
- Remark** Default: LEVEL 5
- 9 Press  twice.  
 The selected microphone gain level is set.





## Set Mode

10 Press  to exit the Set mode.

### Tips

- Increasing the microphone gain excessively can distort the sound or pick up the surrounding noise, impairing intelligibility.
- Be sure to adjust the microphone gain whenever you change microphones.

## Muting Voice

In the dual reception mode, the audio being received on the non-operating band is muted when a signal is heard on the operating band.



For more details, see “Muting Audio” on page 35.

## Simultaneously radio broadcast reception









Set the mute time of the simultaneous broadcast reception.

For more details, see “AF-DUAL Function” for simultaneously monitoring the amateur frequency while listening to the broadcast radio.




## Changing the sound volume setting method


You can set the sound volume adjustment mode to be automatically canceled after about 3 seconds, after pressing  and then adjusting the sound volume with .

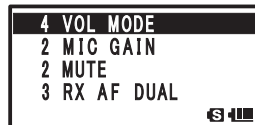
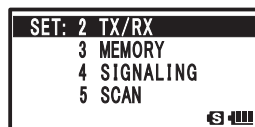
### Enter the Set mode:

- 1 Press and hold  for over 1 second.
- 2 Turn  to select [2 TX/RX].
- 3 Press .
- 4 Turn  to select [3 AUDIO].
- 5 Press .
- 6 Turn  to select [4 VOL MODE].
- 7 Press .
- 8 Turn  to select [AUTO BACK].

**Remark** Default: NORMAL

**Tip** Usually adjust the sound volume by turning  while pressing . If the [AUTO BACK] is selected, the sound volume adjustment mode will be automatically canceled after you have pressed  to enter the sound volume adjustment mode and return to the frequency display screen.








- 9 Press  to exit the Set mode.



## Setting memory bank link

You can link multiple registered memory banks, and also recall a frequently used memory bank immediately


### Enter the Set mode:

- 1 Press and hold  for over 1 second.
- 2 Turn  to select [3 MEMORY].
- 3 Press .
- 4 Turn  to select [1 BANK LINK].
- 5 Press .
- 6 Turn  to select a memory bank to link.
- 7 Press .

The cursor moves to the position (such as BANK1) to set link.

- 8 Turn  to select [ON].

**Remark** Default: OFF

- 9 Press .
- 10 Also set link to other memory banks.

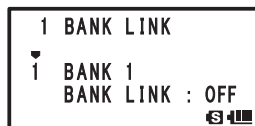
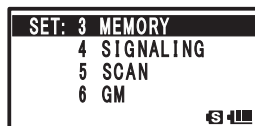
Set link to each memory bank from memory bank 1 through memory bank 24 by repeating step 6 to 9.

- 11 Press .

The memory bank link is set.

- 12 Press .

Exits from the Set mode.



## Assigning a name to a memory bank

A memory bank can be assigned a name with up to 16 characters.  
 For more details, see “Assigning Name to Memory Bank” on page 49.

## Assigning a name to a memory channel







Memory channels and home channels may be assigned a name (memory tag) such as a callsign or broadcast station name.  
 For more details, see “Using Memory Tag” on page 46.

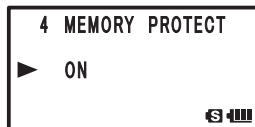
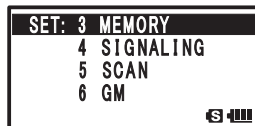
## Set Mode

### Prohibiting registration to memory channel Memory Channel Protect Function

A memory channel may be protected so that a new frequency or memory channel tag name cannot be registered to it.


#### Enter the Set mode:

- 1 Press and hold  for over 1 second.
- 2 Turn  to select [3 MEMORY].
- 3 Press .
- 4 Turn  to select [4 MEMORY PROTECT].
- 5 Press .
- 6 Turn  to select [ON].



Any registration to the memory channel is prohibited.

**Remark** Default: OFF

- 7 Press  to save the memory channel protect, and exit the Set mode.

### Setting memory skip function

Set the scan method for scanning memory channels.







For more details, see “Specifying a Skip/Selected Memory Channel” on page 60.

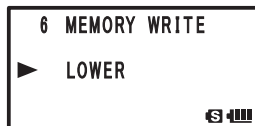
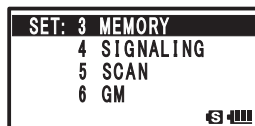
### Registering to a memory channel with the lowest memory channel number

#### Memory Channel Write Function

When registering to a memory channel, you can display an unregistered memory channel with the lowest memory channel number.


#### Enter the Set mode:

- 1 Press and hold  for over 1 second.
- 2 Turn  to select [3 MEMORY].
- 3 Press .
- 4 Turn  to select [6 MEMORY WRITE].
- 5 Press .
- 6 Turn  to select [LOWER].



A memory channel with the lowest memory channel number appears on the LCD.

**Remark** Default: NEXT

- 7 Press  to set the memory channel registration to the lowest unregistered memory channel number, and exit from the Set mode.

## Notifying a call from a remote station by the bell

Notifies you of a call from a remote station by the bell.  
 See “Notification of a Call from a Remote Station by the Bell” on page 89.







## Selecting a DCS code

Select the DCS code from 104 codes from 023 to 754.  
 For more details, see “Setting a DCS Code” on page 86.

## Transmit and receive a DCS Code with an inverted phase DCS INVERSION Function

You can transmit and receive a DCS code with an inverted phase when using the digital code squelch function.

### Enter the Set mode:

- 1 Press and hold  for over 1 second.
- 2 Turn  to select [4 SIGNALING].
- 3 Press .
- 4 Turn  to select [3 DCS INVERSION].
- 5 Press .
- 6 Turn  to select a phase.

When a phase is selected for the reception side, the phase for transmission side is automatically determined.

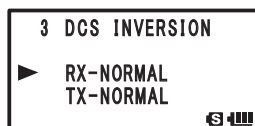
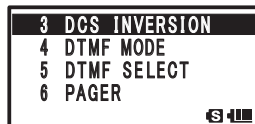
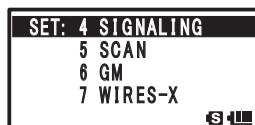
Reception: [Homeomorphic], [Both Phase],  
 [Inverted Phase], [Homeomorphic],  
 [Both Phase], [Inverted Phase]

Transmission: [Homeomorphic], [Inverted Phase],  
 [Inverted Phase], [Inverted Phase],  
 [Homeomorphic], [Homeomorphic]

**Remark** Default: Reception [Homeomorphic], Transmission [Homeomorphic]

- 7 Press .

The phase of DCS code is set, and exits from the Set mode.



## Set Mode

### Setting the transmission method of the DTMF code

Set the transmission method of the registered DTMF code.

For more details, see “Sending the Registered DTMF Code” on page 80.

### Setting DTMF code

The maximum of 16 digit DTMF code can be registered for a telephone number to make a call through the public telephone line from a phone patch.

For more details, see “Using DTMF Function” on page 79.

### Calling only a specific station New Pager Function







When using transceivers with your friends, specifying personal codes allows only a specific station to be called.

For more details, see “Calling Only a Specific Station New Pager Function” on page 90.

### Enabling no-communication squelch function PR FREQUENCY Function


You can set a no-communication squelch frequency in steps of 100 Hz within the range from 300 Hz to 3000 Hz.

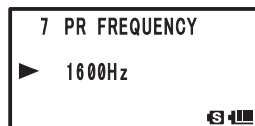
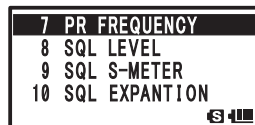
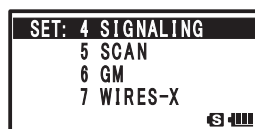
#### Enter the Set mode:

- 1 Press and hold  for over 1 second.
- 2 Turn  to select [4 SIGNALING].
- 3 Press .
- 4 Turn  to select [7 PR FREQUENCY].
- 5 Press .
- 6 Turn  to tune in to a frequency.

Select no-communication squelch frequency in steps of 100 Hz.

**Remark** Default: 1600 Hz








- 7 Press  to set the no-communication squelch function, and exit the Set mode.

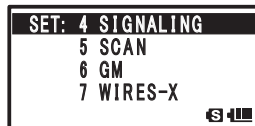


## Adjusting the squelch level — SQL LEVEL Function

You can set squelch level to mute the raspy noise heard.








### Enter the Set mode:

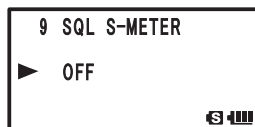
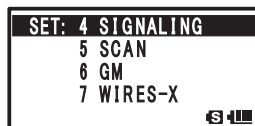
- 1 Press and hold  for over 1 second.
  - 2 Turn  to select [4 SIGNALING].
  - 3 Press .
  - 4 Turn  to select [8 SQL LEVEL].
  - 5 Press .
  - 6 Turn  to select a squelch level.  
 Select from among LEVEL 0 to LEVEL 15.  
 The higher the squelch level, the greater the noise reduction.
- Remark** Default: LEVEL 1
- 7 Press  to save the selected squelch type, and exit the Set mode.



## Setting the signal strength to output sound S Meter Squelch Function

You can set A-Band and B-Band individually to output the sound only when receiving a signal stronger than signal strength level set to the S-Meter Level.

- 1 Select a band as an operating band.
  - 2 Press and hold  for over 1 second to enter the Set mode.
  - 3 Turn  to select [4 SIGNALING].
  - 4 Press .
  - 5 Turn  to select [9 SQL S-METER].
  - 6 Press .
  - 7 Turn  to select a setting value.  
 Select a S-Meter level with reference to the table shown below.
- Remark** Default: OFF
- 8 Press  to save the selected S-Meter level, and exit the Set mode.



## Set Mode

Display	S-Meter Display	Operating Status
OFF	No display	S-Meter squelch function is OFF. (By default, S-Meter squelch function is set to OFF.)
Level 1		Outputs the sound of signal stronger than the S-Meter level 1.
Level 2		Outputs the sound of signal stronger than the S-Meter level 2.
Level 3		Outputs the sound of signal stronger than the S-Meter level 3.
Level 4		Outputs the sound of signal stronger than the S-Meter level 4.
Level 5		Outputs the sound of signal stronger than the S-Meter level 5.
Level 6		Outputs the sound of signal stronger than the S-Meter level 6.
Level 7		Outputs the sound of signal stronger than the S-Meter level 7.
Level 8		Outputs the sound of signal stronger than the S-Meter level 8.
Level 9		Outputs the sound of signal stronger than the S-Meter level 9.

## Setting the squelch type for transmission and reception SQL EXPANTION FUNCTION

Squelch types set beforehand can function separately for transmission and reception.

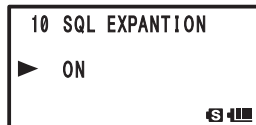
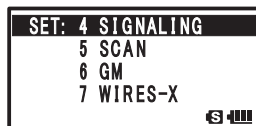
### Enter the Set mode:

- 1 Press and hold for over 1 second.
- 2 Turn to select [4 SIGNALING].
- 3 Press .
- 4 Turn to select [10 SQL EXPANTION].
- 5 Press .
- 6 Turn to select [ON].

ON: Use separate squelch for transmission and reception.  
 OFF: Use the same squelch for transmission and reception.

**Remark** Default: OFF

- 7 Press to save the separate squelch setting, and exit the Set mode.



## Setting the type of tone squelch

Set the tone squelch to open the squelch only when a signal containing the specified frequency tone is received.

For more details, see “Using the Tone Squelch Function” on page 84.

## Selecting a tone frequency












Select the tone frequency from 50 types between 67.0 MHz and 254.1 MHz.

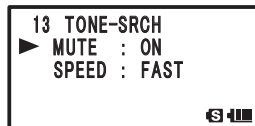
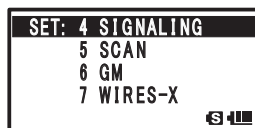
For more details, see “Setting a Tone Frequency” on page 85.

## Setting the sound and speed during tone search Tone Search Function

Sound can be muted during tone search. The operation speed of the tone search can also be changed.

### Enter the Set mode:

- 1 Press and hold  for over 1 second.
  - 2 Turn  to select [4 SIGNALING].
  - 3 Press .
  - 4 Turn  to select [13 TONE-SRCH].
  - 5 Press  twice.
  - 6 Turn  to select MUTE to [ON].
- Remark** Default: ON
- 7 Press .
  - 8 Turn  to select [SPPED].
  - 9 Press .
  - 10 Turn  to select SPEED to [Rapid].
- Remark** Default: FAST
- 11 Press  to save the Tone Search setting and exit the Set mode.











## Set Mode

### ON/OFF for the Weather Alert Feature

Setting the Weather Alert Feature, used for notifying storms and hurricanes, ON or OFF.

#### Enter the Set mode:

- 1 Press and hold  for over 1 second.
- 2 Turn  to select [4 SIGNALING].
- 3 Press .
- 4 Turn  to select [14 WX ALERT].
- 5 Press .
- 6 Turn  to select [ON].

ON: Enables the Weather Alert Feature.

OFF: Disables the Weather Alert Feature.







**Remark** Default: OFF

- 7 Press  to save the Weather Alert ON or OFF setting, and exit the Set mode

### Setting the surveillance interval time for priority channels DW TIME Function


When the dual reception function is active, the interval for monitoring the signal of the priority channel can be set.

#### Enter the Set mode:

- 1 Press and hold  for over 1 second.
- 2 Turn  to select [5 SCAN].
- 3 Press .
- 4 Turn  to select [1 DW TIME].
- 5 Press .
- 6 Turn  to select the monitoring interval.

Interval can be selected from 0.1 SEC to 10 SEC.

**Remark** Default: 5 seconds

- 7 Press  to save the priority memory channel monitoring interval setting and exit the Set mode.

