

YUPITERU AIRBAND RECEIVER
VT-125II

INSTRUCTION MANUAL

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MAIN FEATURES

- Various microcomputerized receive functions.
- 30-CHANNEL MEMORY
- HIGH-SPEED SCAN/SEARCH
20 channels/20 steps per sec.
- PRIORITY FUNCTION
- CHANNEL-MEMORY PASS FUNCTION
- SIGNAL STRENGTH METER
- INDIVIDUAL POWER/VOLUME CONTROL SWITCH
and SQUELCH CONTROL
- KEY-LOCK SWITCH
- KEY SOUND ON/OFF FUNCTION
- DISPLAY BACK-LIGHT FUNCTION
- 3-WAY POWER SUPPLY

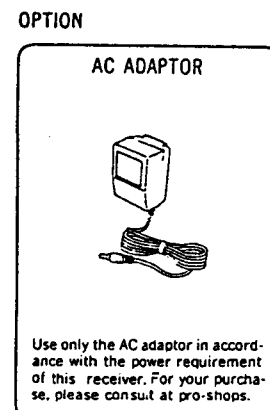
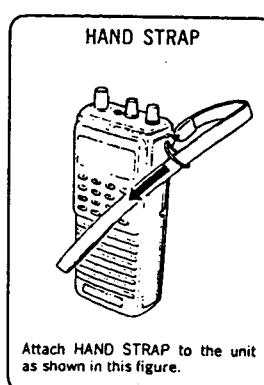
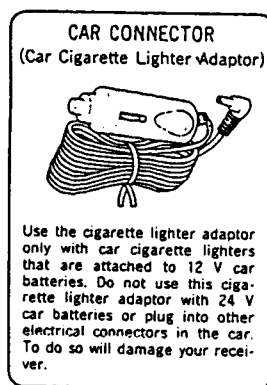
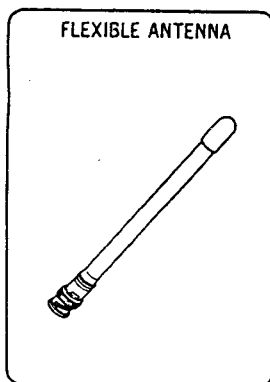
The power can be supplied by:
Ni-Cd BATTERY(For portable use)
AC ADAPTOR(For home use)
12V CAR BATTERY(For car use)

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ACCESSORIES

- FLEXIBLE ANTENNA(1)
- CAR CONNECTOR(1)
- Ni-Cd BATTERIES (BUILT-IN)(3)
- HAND STRAP(1)
- EARPHONE(1)
- INSTRUCTION MANUAL(1)

OPTION
AC ADAPTOR



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OPERATING ENVIRONMENT

- Do not place this unit on heating equipment or expose it to direct sunlight.
- Do not use this unit in humid locations such as in the bathroom.
- Use this unit away from TVs and radios to avoid electrical interference.

BATTERIES

- This unit is equipped with three Ni-Cd penlight batteries (UM3 size). These batteries can be charged by the AC adaptor (output 12 VDC). These batteries can also be charged through the car cigarette lighter using the provided adaptor. Use the cigarette lighter adaptor only with 12 volt car batteries. When charging, set the POWER SWITCH/VOLUME CONTROL to "OFF" and charge for approximately 15 hours. This recharge will provide approximately 10 hours of continuous use.

WARNING:

Do not charge the Ni-Cd batteries with the POWER SWITCH/VOLUME CONTROL "ON." Since fully discharged Ni-Cd batteries are more difficult to charge, it is recommended to charge the batteries before they are completely discharged. Do not over-charge the batteries for this will shorten the service life. Do not throw away Ni-Cd batteries into an open fire or incinerator.

- Alkaline and manganese batteries can be used with this unit. However, such batteries are not rechargeable. Charging such batteries will damage the unit.
- Replace the batteries with the POWER SWITCH/VOLUME CONTROL "OFF." If you replace the batteries with the POWER SWITCH/VOLUME CONTROL "ON," all data stored in the memory will be erased.
- Charge the Ni-Cd batteries before using the unit for the first time. At other times, if "BATT" is displayed on the liquid crystal display (LCD) when using the unit, immediately charge the batteries.

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PRECAUTIONS

ANTENNA

In addition to the FLEXIBLE ANTENNA attached, other antennas can be used with the VT-125 II. But such antennas should be suitable for frequencies received by the VT-125 II. An inter-modulation may happen when an external antenna is used and strong signals are near the VT-125 II.

- *Due to the above reasons, external antennas with boosters are not recommended.

RESET SWITCH

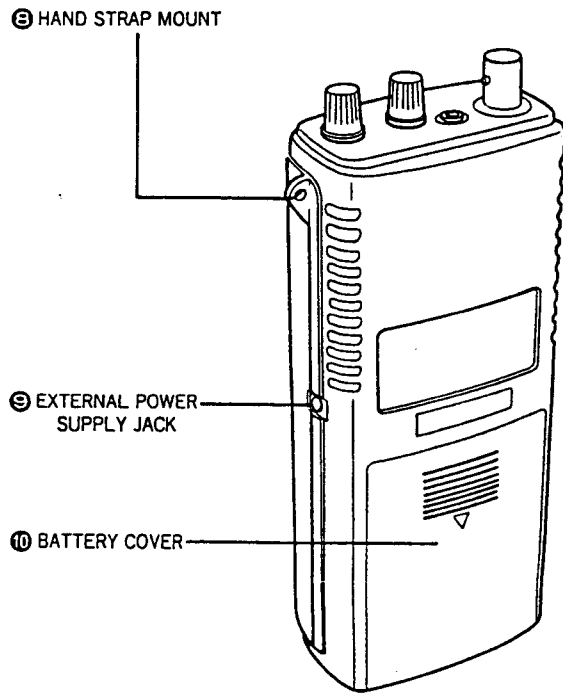
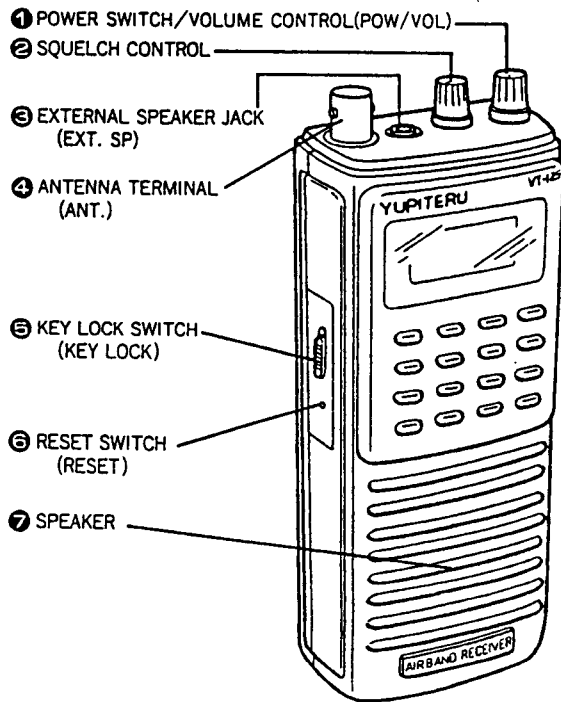
Press the RESET SWITCH on the side of the VT-125 II with by a sharp object (such as a ballpoint pen) to initialize the VT-125 II. Press the RESET SWITCH in case of the following:

1. The batteries are dead.
2. You want to erase all the data in the memory.
3. Erroneous information is displayed.

MAINTENANCE

Use a dry soft cloth to clean the VT-125 II. Never use such materials as polyester because they generate static electricity. Also, never use chemical dusters or cleansers.

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PARTS NAMES & FUNCTIONS

① POWER SWITCH/VOLUME CONTROL (POW/VOL)

Rotate this knob clockwise to turn on the unit and to increase the volume.

② SQUELCH CONTROL (SQUELCH)

Rotate this knob to reduce the "white" noise and to improve the condition of the receiving signals.

③ EXTERNAL SPEAKER (EXT. SP)

Connect an external speaker or earplug to this jack. When this jack is used, the internal speaker does not work.

④ ANTENNA TERMINAL (ANT.)

Connect an external antenna to this terminal.

⑤ KEY LOCK SWITCH (KEY LOCK)

Set this switch to "ON" in order to "lock" the keypad. This feature is particularly useful because the locked keypad prevents erroneous input when carrying the unit.

⑥ RESET BUTTON (RESET)

Press this button (with a sharp object) to initialize the microcomputer.

⑦ SPEAKER

⑧ HAND STRAP MOUNT

⑨ EXTERNAL POWER SUPPLY JACK

Connect the AC adaptor or the cigarette lighter adaptor to this jack when you want to run the unit from an external power source (AC outlet or car battery) or to charge the Ni-Cd batteries.

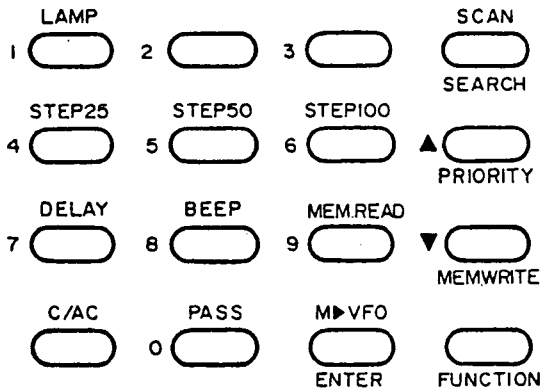
⑩ BATTERY COVER

Remove this cover to replace the batteries.

DIRECT INPUT KEYS

(KEYPAD)

Use the keys to input data and perform other functions.



NUMBER KEYS (0~9)

Use these keys to input the frequencies and MEMORY CHANNELS.

CLEAR/ALL CLEAR KEY (C/AC)

Use this key to correct the wrong input of the frequencies or MEMORY CHANNELS. Press this key once to input the correct frequencies or MEMORY CHANNELS. Press this key twice to clear all the data that was input.

ENTER KEY (ENTER)

Use this key to enter the frequencies that were input in the microcomputer's memory.

UP KEY (▲)

- When setting the frequencies or the MEMORY CHANNELS, use this key after pressing the CLEAR/ALL CLEAR key once to specify the correct frequencies or MEMORY CHANNELS.

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PARTS NAME & FUNCTION

- In the Manual Receive mode, pressing this key each time increases the frequency by one "step" as indicated on the liquid crystal display. (One "step" can be set in units of 25 kHz, 50 kHz or 100 kHz.) Holding down this key for more than one second "walks" through the frequencies in steps.
- In the Memory Recall mode, pressing this key each time increases the frequency by one channel. Holding down this key for more than one second "walks" through the stored channels.
- In the MEMORY SCAN mode, pressing this key halts the scan and forces the frequency up one channel. Also, during this mode, pressing this key determines the SCAN direction, i.e. in the "up" direction.
- In the SEARCH mode, pressing this key halts the search and forces the frequency up one step. Also, during this mode, pressing this key determines the SEARCH direction, i.e. in the "up" direction.

DOWN KEY (▼)

The DOWN key works in the same way as the UP key except in the opposite direction, i.e. in decreasing order.

SCAN KEY (SCAN)

Press this key once to scan the stored channels in the memory. Press this key again to cancel the scan of stored MEMORY CHANNELS.

FUNCTION KEY (FUNCTION)

Use this key to execute the extended functions.

EXTENDED FUNCTIONS

LAMP KEY (LAMP)

Press this key to back-light the display. After pressing the key, the display is lit for five seconds.

25 kHz STEP KEY (STEP 25)

Press this key to search frequencies or to input frequencies in units (steps) of 25 kHz.

50 kHz STEP KEY (STEP 50)

Press this key to search frequencies or to input frequencies in units (steps) of 50 kHz.

100 kHz STEP KEY (STEP 100)

Press this key to search frequencies or to input frequencies in units (steps) of 100 kHz.

DELAY KEY (DELAY)

Press this key to delay the SEARCH and MEMORY SCAN speed. Normally, it takes two seconds to search or scan for frequencies. But with this key you can delay it to four seconds.

BEEP KEY (BEEP)

Press this key to turn off or on the key Beep mode. (Keys beep whenever they are pressed.)

MEMORY READ KEY (MEM. READ)

Press this key to recall channels stored in the memory.

PASS KEY (PASS)

Press this key to pass a channel stored in the memory during scanning.

MEMORY VFO KEY (M▶VFO)

Press this key to shift a selected frequency stored in the memory to manual mode.

SEARCH KEY (SEARCH)

Press this key to search for desired frequencies within the frequency coverage of this unit.

PRIORITY KEY (PRIORITY)

Press this key store priority channels in the memory or to use the priority function.

MEMORY WRITE KEY (MEM. WRITE)

Press this key to store selected frequencies as channels. You can also use this key to erase previously stored channels.

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PARTS NAME & FUNCTION

(DISPLAY)

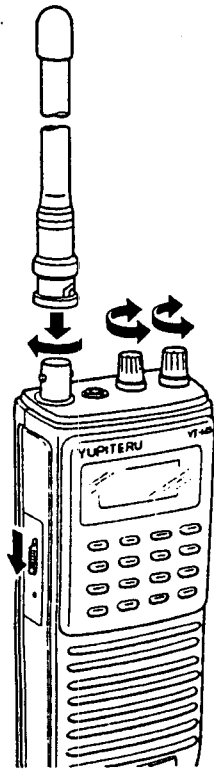
DISPLAY (Liquid Crystal Display)

Various data and information are displayed here.



- 88888.8** : Displays the frequencies and stored channels in the memory. An "Error" message will appear when invalid data is input.
 - Flashes during data input and comes on after completion of data input.
 - In data input mode, after pressing the CLEAR/ALL CLEAR key the selected digit will flash quickly until the correct value is entered.

- 88^{CH}** : Displays the stored channel numbers and will come on when a channel is recalled. The "CH" indicator will flash when "PASS MEMORY" channels are recalled.
- SCAN** : Lights during the Scan mode.
- SEARCH** : Lights during the Search mode.
- FUNC** : Lights when the FUNCTION key is pressed.
- S** : This is the signal strength meter. It lights according to the strength of the received signal.
- BUSY** : Lights when the SQUELCH control is on.
- PRI** : Lights when the DELAY function is on.
- BATT** : Lights when the batteries need to be replaced or in the case of Ni-Cd batteries, need to be charged.
- BEEP** : Lights when Key Beep mode is enabled.
- 25 50 100** : Either one lights according to the frequency "step" selected.
- P^{CH}** : Lights when receiving the priority channel or when recalling it.



- 1 Insert the attached antenna into the antenna jack and turn it clockwise to lock it.

CAUTION:

Hold the antenna firmly at connector base when mounting.

- 2 Set the KEY LOCK switch to "OFF."

- 3 Rotate the SQUELCH CONTROL knob counter-clockwise until it stops.

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BEFORE KEY OPERATION

- 4 Turn the POWER/VOLUME knob clockwise to turn on the unit. When the unit is on, the display lights.

IMPORTANT!

After turning on the unit, check the display for information. If "BATT" is lit, the batteries need to be replaced or in the case of Ni-Cd batteries, they need to be recharged.

- 5 Continue to turn the POWER/VOLUME knob clockwise until the desired volume level is reached.

* When initialized data are called, such as when the RESET SWITCH is depressed, the frequency displayed is 108.000.0

- 6 If you hear radio interference over the SPEAKER, turn the SQUELCH CONTROL knob clockwise to suppress it. When you hear a voice over the speaker turn the SQUELCH CONTROL knob to about the center.

* If the "BUSY" indication is not lit and you hear no voice, it means that the SQUELCH CONTROL knob is turned to suppress radio interference.

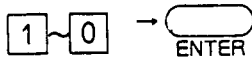
IMPORTANT!

A weak signal cannot be received if the SQUELCH CONTROL knob is fully rotated clockwise and more radio interference will be received if the knob is fully rotated counter-clockwise. Set the knob according to the strength of the received signal.

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HOW TO INPUT FREQUENCIES

Use the following keys to input the frequencies:



1 You can only input the frequencies when the unit is in the Manual mode. No "SEARCH" or "SCAN" indication should be displayed.*

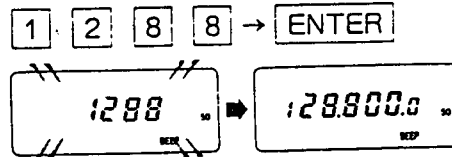
* To get out of the "SEARCH" mode, press the "FUNCTION" key and then the "SEARCH" key.
To get out of the "SCAN" mode, press the "SCAN" key.

2 Input the frequency with the number keys starting from the 100 MHz position.

3 After inputting the frequency, press the "ENTER" key. The receiving frequency will appear on the display.

◀EXAMPLE▶

Input 128.8 MHz as the frequency to receive.



The display will flash during input and will light after the "ENTER" key has been pressed.

* An "ERROR" indication will appear for two seconds and the display will return to the previous input frequency if you attempt to enter a frequency outside the range of the unit.

If you attempt to enter a frequency not within the "step" frequency range, the frequency nearest to the "step" frequency will be entered instead.

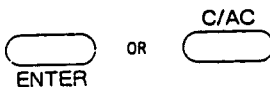
If you do not enter a frequency within 10 seconds after pressing the "ENTER" or the number keys, the display will return to the previously entered frequency.

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MANUAL RECEIVING

HOW TO CORRECT INPUT FREQUENCIES

Use the following keys to correct the input frequencies:



When an incorrect frequency has been input, press the "ENTER" key and input again from the beginning or press the "CLEAR/ALL CLEAR" key once and input the correct digit.

* After pressing the "CLEAR/ALL CLEAR" key once, you can select the number to be corrected with the "UP" and "DOWN" keys.

IMPORTANT!

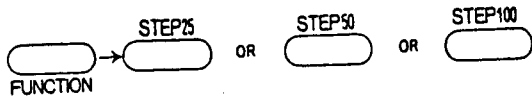
After pressing the "ENTER" key or pressing the "CLEAR/ALL CLEAR" key, you cannot just correct only one digit. Either you input the correct frequency from the beginning in case of pressing the "ENTER" key or in case of pressing the "CLEAR/ALL CLEAR" key, adjust the frequency to the desired one by pressing the "UP" and "DOWN" key.

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MANUAL RECEIVING

THE FREQUENCY STEP SELECTING

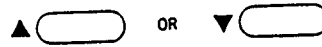
Use the following keys.



In the Manual or Search modes, Select a frequency step by pressing either 25kHz, 50kHz or 100kHz STEP key after pressing the "FUNCTION" key. When inputting frequencies, a desired step should be selected before hand.

1 STEP FREQUENCY AND QUICK STEP FREQUENCY

Use the following keys.

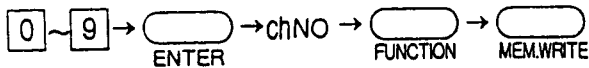


In the Manual mode, to move a frequency one step up or down, press either the "UP" or "DOWN" key. Holding down the "UP" or "DOWN" keys for more than one second will "walk" the Frequency through the "STEPS".

CHANNEL MEMORY

HOW TO SET THE CHANNEL MEMORY

Use the following Keys:

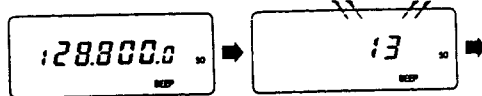
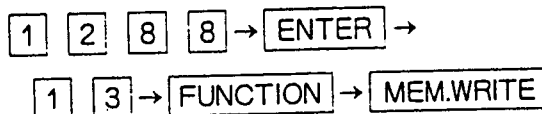


You can store up to 30 frequencies in the channel memory.

- 1** In the Manual mode or Memory Recall mode, input the desired frequency. (See "How to Input Frequencies," page 16.)
- 2** Select the desired memory channel by (channels 1-30) by pressing the number keys. While selecting the memory channel, the indicated channel number will flash.
- 3** Press the "FUNCTION" key.
- 4** Press the "MEMORY WRITE" key. The unit will beep after storing the frequency to the particular memory channel.

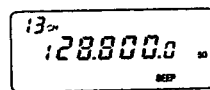
◀EXAMPLE▶

Store the frequency 128.8 MHz as channel 13.



Input a frequency.

Select a memory channel.



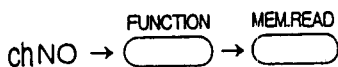
Storing of a channel in the memory is completed.

The channel number indication disappears one second later and the display returns to the Manual mode.

* An "ERROR" indication is displayed if you attempt to enter number outside the range of channels available. If you select a channel that is already stored in the memory, that data will be erased and replaced with new data.

HOW TO RECALL CHANNELS FROM MEMORY

Use the following keys:

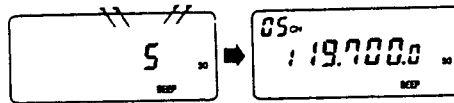


- 1** Set the unit to the Manual mode or Memory Recall mode.
- 2** Specify the desired channel number using the "NUMBER" keys. The specified channel number will flash on the display.
- 3** Press the "FUNCTION" key.
- 4** Press the "MEMORY READ" key.

* The last channel (a previously called channel) is called out when the "FUNCTION" key and then the "MEMORY READ" key are pressed without specifying any ch No.

◀EXAMPLE▶

Recall channel number 5 which is the frequency 119.7 MHz.



Input the desired channel number.

Recall of the channel from the memory is complete.

* You can recall channels from memory without any frequencies. In that case, the frequency is displayed as "000.000.0"
 "PRIORITY" channel is recalled if channel "0" or "00" is specified. (See "Priority Function," page 27.)
 If you continue to press the "FUNCTION" and "MEMORY READ" keys during the Memory Recall mode, the previous frequency of the Manual mode will appear.

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CHANNEL MEMORY

HOW TO RETURN TO THE MANUAL MODE

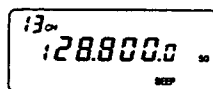
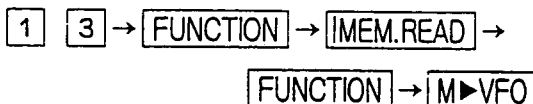
Use the following keys.



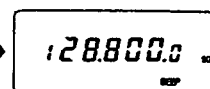
- 1** Recall a desired channel from the memory. (See "How to Recall Channels From the Memory," page 20.)
- 2** Press the "FUNCTION" key.
- 3** Press the "MEMORY VFO" key. The unit is now in the Manual mode.

◀EXAMPLE▶

Recall channel 13 from the memory (frequency 128.8MHz) and change to the Manual mode.



Recalling a channel from the memory.



Changing to the Manual mode

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ERASING CHANNELS FROM THE MEMORY

Use the following keys.



1 Recall the channel that is to be erased from the memory. (See "How to Recall Channels From the Memory," page 20.)

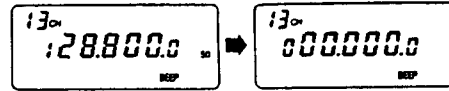
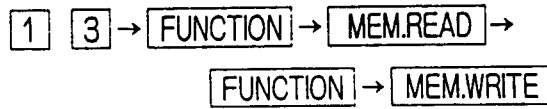
2 Press the "FUNCTION" key.

3 Press the "MEMORY WRITE" key. The channel that was selected is now erased.

* If you erase a channel from the memory while the unit is receiving a signal, the "000.000.0" display will appear and the unit will continue to receive the signal until the next operation with the keypad.

▶ EXAMPLE ◀

Erase channel 13 from the memory.



Recall the channel from the memory.

The channel is erased from the memory.

MEMORY CHANNEL

MOVING UP AND DOWN THE CHANNELS

After recalling the channels from the memory, you can "walk" through the channels in ascending or descending order by pressing the "UP" or "DOWN" keys respectively.

MEMORY SCAN

This feature monitors the contents of the channels in memory.

Use the following keys.



1 Set the "SQUELCH CONTROL" knob to suppress radio interference.

2 Press the "SCAN" key.

* Press the "SCAN" key again to disable the Scan mode.

The scanning stops at the channel receiving a broadcast. When the broadcast is finished, scanning starts again until it catches the next channel receiving a broadcast.

IMPORTANT!

You can only scan those channels which have been stored in memory with frequencies. In case there are no stored channels, the Scan Memory mode is not available. Also, if all the channels stored in memory are in the Pass mode, memory scan is not available. (See "Pass Memory," page 24.)

SCAN PAUSE AND SCAN DIRECTION

• PAUSE

If you press the "UP" key or "DOWN" key during the Scan mode, the scan will halt and wait at the channel indicated in the display. If no broadcast is received within two seconds (four seconds in the Delay mode) the scan will continue.

• DIRECTION

If you press the "UP" key or "DOWN" key while the scanning is stopped, you will move up or down one channel and change the direction of the scan.

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PASS MEMORY

Use the following keys.



If you set the "PASS MEMORY" mode after recalling the channels from memory or during the Scan mode, any scanning afterwards skips the channels stored in the memory.

- 1** Recall the channel from memory that you want to skip.

IMPORTANT!

Any broadcast received during the Scan mode will be treated as a channel recalled from the memory.

- 2** Press the "FUNCTION" key.

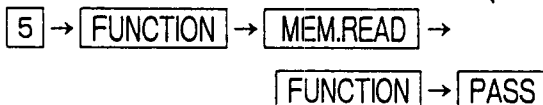
- 3** Press the "PASS" key.

MEMORY CHANNEL

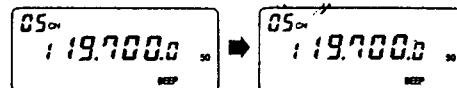
* After recalling the channel from memory, to cancel the "PASS" mode, press again the "FUNCTION" and "PASS" keys again. You cannot use the "PASS" function with channels that have no frequencies.

◀EXAMPLE▶

"PASS" channel 5 during scanning.



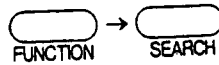
After entering the channel to pass in the memory while scanning has stopped, scanning will resume starting with the next channel. Channels that have been selected to pass, their "CH" indication will flash when such channels are recalled.



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SEARCH

Use the following keys.



This mode searches for broadcasts within the range of the frequencies set for this unit.

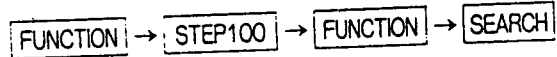
- 1** Set the "SQUELCH CONTROL" knob to suppress the radio interference.
- 2** Set the "FREQUENCY STEP" either at 25kHz, 50kHz or 100kHz. (See "How to Select Frequency Steps," page 18.)
- 3** Press the "FUNCTION" key.
- 4** Press the "SEARCH" key to start the search.

* Press the "FUNCTION" and "SEARCH" keys again to cancel this mode.

IMPORTANT!

To store any of the frequencies found during the search, cancel the "SEARCH" mode and save them according to the "CHANNEL MEMORY" procedure.

◀EXAMPLE▶ Search for frequencies in 100kHz steps.



Press the "FUNCTION" key and then the "SEARCH" key to start the search for the frequency shown on the display in the "steps" selected. The search stops at the frequency receiving a broadcast and starts again when that broadcast starts.

PAUSE AND DIRECTION

• PAUSE

If you press the "UP" key or "DOWN" key during the Search mode, the search will halt and wait at the channel indicated in the display. If no broadcast is received within two seconds (four seconds in the Delay mode) the search will continue.

• DIRECTION

If you press the "UP" key or "DOWN" key while the scanning is stopped, you will move up or down one channel and change the direction of the search.

PRIORITY FUNCTION

SAVING PRIORITY CHANNELS

This mode saves certain frequencies as priority channels. These channels are monitored every five seconds during any of the modes (Scan, Search, Memory Recalling and Manual). The display will show a "PCH" indicator during any of the modes.

Use the following keys.



- 1** Input the desired frequency in the Manual mode. (See "How to Input Frequencies," page 16.)
- 2** Press the "FUNCTION" key.
- 3** Press the "PRIORITY" key.
- 4** Press the "ENTER" key. When the frequency is stored, the beep sound will come on.

◀EXAMPLE▶

Store the desired frequency as a priority channel.



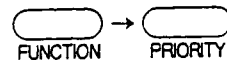
IMPORTANT!

Save priority channels when the unit is not in a priority mode. ("PRI" indication is not displayed.)

* The priority frequency at the initial setting is 108.000.0MHz. To verify if the Priority Channel has been saved, recall channel 0 or 00.

SETTING AND CANCELLING THE PRIORITY FUNCTION

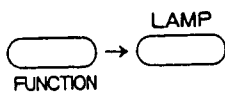
Use the following keys.



- 1** Press the "FUNCTION" key.
- 2** Press the "PRIORITY" key. That particular frequency is now saved as the "PRIORITY" channel. (The "PRI" indication is shown on the display.) To cancel the "PRIORITY" mode, press the "FUNCTION" key and then the "PRIORITY" key.

BACKLIGHT FUNCTION

Use the following keys.



1 Press the "FUNCTION" key.

2 Press the "LAMP" key. The Backlight function is now enabled. The backlight will stay on as long as the key input is continuous. However, if more than five seconds have passed since the last input, the backlight will go out.

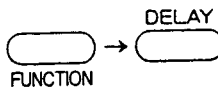
IMPORTANT!

The Backlight function is disabled during numerical input (flashing).

DELAY FUNCTION

It takes two seconds to move up or down from one channel to another during scanning or searching of effective signals. This timing can be delayed to four seconds using this function.

Use the following keys.



1 Press the "FUNCTION" key.

2 Press the "DELAY" key. The "DELAY" function is now enabled.

* To cancel the "DELAY" function press the "FUNCTION" and "DELAY" keys again.

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OTHER FUNCTION

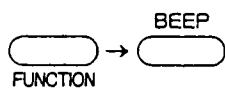
IMPORTANT!

You cannot switch to the "DELAY" mode when using the number keys (flashing).

* When the "DELAY" mode is enabled, "DELAY" is shown on the display.

CANCELLING THE KEY SOUND

Use the following keys.



1 Press the "FUNCTION" key.

2 Press the "BEEP" key. Now the "KEY SOUND" mode is cancelled.

* Press the "FUNCTION" and "BEEP" key again to enable the "KEY SOUND" mode.

IMPORTANT!

You cannot cancel the "KEY SOUND" mode during the Scan or Search mode.

* "BEEP" is indicated on the display when "KEY SOUND" mode is enabled.

* The "KEY SOUND" mode indicates whether you are doing the correct key operations. The following beeps indicate three different operations:

- Numerical key input or other individual keys "Pi"
- Completion of memory operations (storing and erasing) "Pi, Pi"
- Error "Pi, Po, Po"

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GENERAL SPECIFICATION

RECEIVING FREQUENCY RANGE

108.00~142.00MHz

FREQUENCY STEP

25/50/100kHz

MODULATION

Amplitude Modulation

RECEIVING SENSITIVITY

Less than 0.5 μ v(10dB S/N)

CHANNEL MEMORY

30 Channels

SCAN/SEARCH SPEED

20 Channels/20 Steps Per Second

ANTENNA IMPEDANCE

50 Ω

POWER SUPPLY

3.6 VDC(UM3 Ni-Cd BATTERY \times 3)

12 VDC(External Power Sources and For Recharging)

SPEAKER

60 mW(8 Ω)

CURRENT CONSUMPTION

95 mA AT(Maximum Output)

45 mA AT(Stand-by Mode)

GUARANTEED OPERATION TEMPERATURE RANGE

0 $^{\circ}$ C ~50 $^{\circ}$ C

OUTER DIMENSIONS

57.2(W) \times 127.5(H) \times 35.5(D)mm(Excluding extruding Parts)

WEIGHT

207g (Excluding Antenna)

ACCESSORIES

FLEXIBLE ANTENNA (1)

CAR CONNECTOR (1)

Ni-Cd BATTERY (BUILT-IN) (3)

HAND STRAP (1)

EARPHONE (1)

INSTRUCTION MANUAL (1)