

SONY

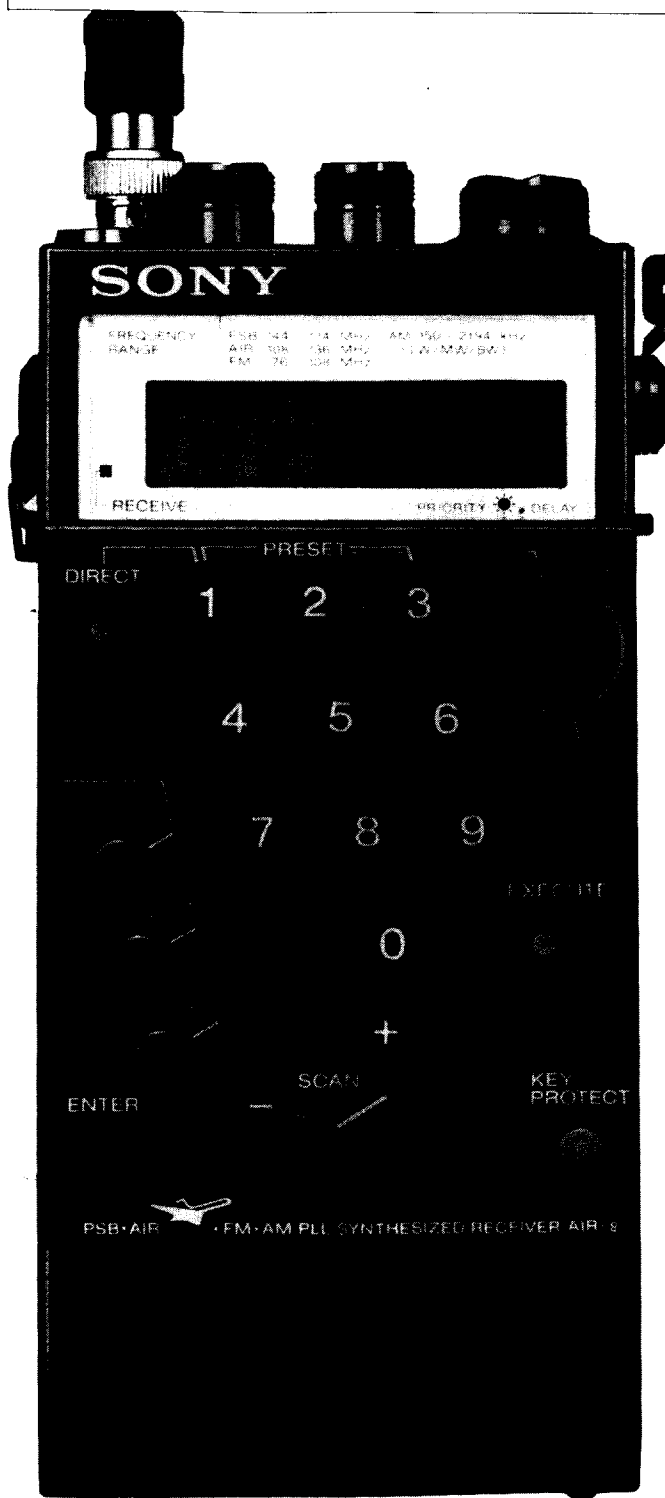
PSB/AIR/FM/AM PLL SYNTHESIZED RECEIVER

AIR-8

OPERATING INSTRUCTIONS

Before operating this high quality electronic unit, please read this operating manual thoroughly so that you can obtain the maximum of enjoyment from it.

This manual should be retained for future reference and used to answer your operational questions as they arise.



OWNER'S RECORD

The model and serial numbers are located on the bottom.

Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. AIR-8

Serial No. _____

INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna

- Relocate the equipment with respect to the receiver

- Move the equipment away from the receiver

- Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems".

This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

TABLE OF CONTENTS

Features	3
Precautions	4
Location and function of controls	5
Power sources	8
Batteries	8
Rechargeable battery pack	9
House current	9
Car battery	9
Battery case	9
How to change the MW tuning interval	10
Installation of the helical antenna	10

FM/AM/AIR/PSB reception

Direct tuning	11
Scan tuning	13
How to use the SQL control	14
Manual tuning	15
Memory tuning	16
How to memorize a station	16
How to receive a memorized station	17

AIR/PSB reception

Memory scan tuning	18
Program function	19
Priority function	21
Delay function	22
External antenna connection	23
Recording a broadcast	24
How to use the shoulder strap	24
Specifications	25
Troubleshooting guide	26

FEATURES

- The AIR-8 portable receiver receives the air traffic control frequencies, 108–136 MHz, as well as standard FM and AM broadcasts. PSB*, 144–174 MHz, can also be received.
- The quartz controlled PLL (Phase Locked Loop) synthesizer system uses a microcomputer to make pinpoint tuning easy. The tuned frequency is displayed digitally.
- Choice of direct, scan, manual or memory tuning.
- Up to 40 stations can be memorized so that they can be tuned in at the press of a key.
- Air band and PSB can be received more easily with the memory scanning, program function, priority function and delay function.
- Squelch control to suppress noise while tuning and during intervals between communications.
- The key protect function operates at the press of a key to lock the keys on the front face so they cannot be operated by accident.
- Helical antenna for high sensitivity and selectivity has BNC connector for attachment to the receiver.
- Four different power sources: batteries, house current, rechargeable battery pack or car battery.

* PSB (Public Service Band)

On the PSB, you can monitor police, fire, forestry conservation, VHF weather, marine, highway maintenance, land mobile, and other public safety radio services. The general frequency allocation is shown on the dial scale.

PRECAUTIONS

- Operate the receiver only on 6V dc with four size AA batteries (IEC designation R6).

For ac operation, use the ac power adaptor recommended for this set. Do not use any other ac power adaptor.

For car battery operation, use the car battery cord recommended for this set. Do not use any other car battery cord.

- Use the set within a temperature range of 0°C to 40°C (32°F to 104°F). If it is used in temperatures outside this range, numbers may appear on the display which have nothing to do with the frequency being received. If it is used in temperatures lower than this range, the numbers displayed may change very slowly. These irregularities will disappear and there will be no damage to the set when the set is used in its recommended temperature range.

- Do not leave the set near heat sources, such as radiators or air-ducts, or in a place subject to direct sunlight, excessive dust, moisture, rain, mechanical vibration, or shock.

- Should any solid object or liquid fall into the set, remove the batteries, and have the set checked by qualified personnel before operating it any further.

- When the case becomes soiled, clean it with a soft cloth dampened with a mild detergent solution. Never use abrasive cleansers or chemical solvents, as they may mar the case.

- In vehicles or in buildings, radio reception may be difficult or noisy. Try listening near a window.

- When there is lightning and you are using an external antenna, immediately disconnect the ac power adaptor (if connected) from the wall outlet. Never touch the antenna wire when there is lightning storm.

- Reception of 109.875 MHz, 166.17 MHz, 167.08 MHz and 455 kHz may be difficult due to internal spurious signals generated by the built-in oscillators.

If you have any question or problem concerning your set that is not covered in this manual, please consult your nearest Sony dealer.

LOCATION AND FUNCTION OF CONTROLS



① POWER switch

Depress to turn on the receiver (■ ON).
To turn the receiver off, press it again (■ OFF).

② VOL (volume) control

Turn clockwise for more volume. It can be depressed (■) to allow the SQL (squench) control to be adjusted more easily.

③ Helical antenna (supplied)

Used for air band, PSB and FM reception.

④ ANT (antenna) connector

Connect the supplied helical antenna or the BNC connector of an optional external antenna for air band, PSB and FM reception.

⑤ SQL (squench) control

Used for cutting background noise while tuning and during intervals between communications. Normally, depress the control (■ AUTO). Press it again to set to ■ MANUAL, and adjust the squelch level manually.

⑥ (earphone) jack

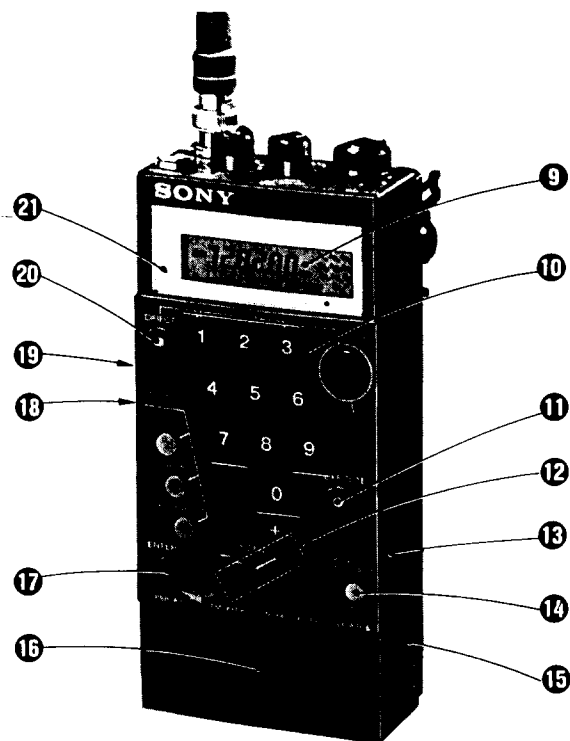
Connect the supplied earphone for private listening.
This jack is also used for connecting an external speaker or recording broadcast on a tape recorder.

⑦ AM EXT (external) ANTENNA jack

Connect an optional external antenna for AM reception.

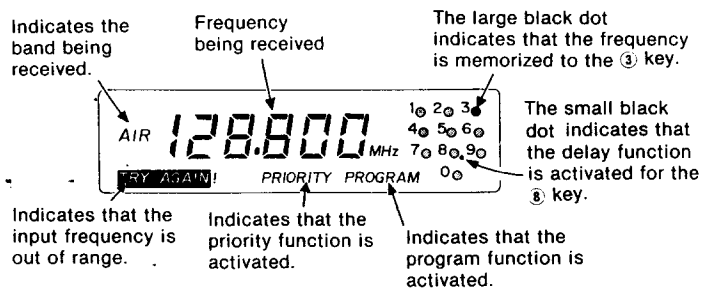
⑧ Band selector

Select the desired band: PSB, AIR, FM or AM



9 Display (LCD)

Displayed as follows:



10 Counter keys

Used to input a frequency for direct tuning, to memorize a station and to receive a memorized station.

11 EXECUTE key

Used for direct tuning.

After pressing the DIRECT key and inputting the desired frequency with the counter keys, press this key to tune in the frequency.

12 SCAN keys

Used for scan tuning and manual tuning.

When you press the ⊕ (plus) or ⊖ (minus) key, the frequency is increased or decreased by the intervals shown on page 12.

If you keep the key pressed, the frequency changes continuously.

13 LIGHT switch

The display is illuminated when this switch is pressed.

14 KEY PROTECT key

When this key is pressed once, the keys on the front face are locked and no longer function.

To release this key, press it again.

15 DC IN 6 V (external power input) jack
For operation from an external power source.

16 Speaker

17 ENTER key

Used to memorize a frequency.

After inputting the desired frequency, while pressing this key, press the counter keys at which the frequency is to be memorized.

18 Battery compartment (rear)

19 9 kHz/10 kHz selector (inside battery compartment)
Used to change the MW tuning interval.

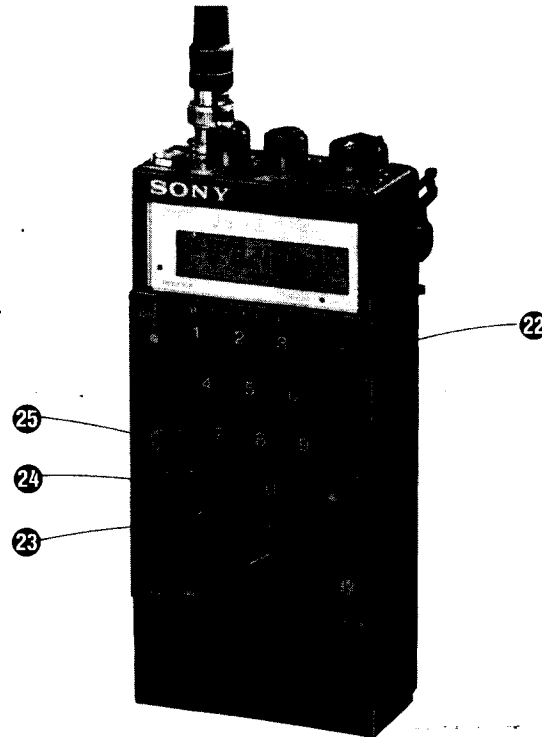
20 DIRECT key

Used for direct tuning.

21 RECEIVE indicator (LED)

When a signal or a noise is received, this indicator lights in red.

KEYS FOR AIR BAND AND PSB RECEPTION
(indicated in green)



22 MEMORY SCAN key

Used for memory scan tuning.

25 PROGRAM key

Used to initiate the program function. See page 19.

24 DELAY key

Used to initiate the delay function. See page 22.

23 PRIORITY key

Used to initiate the priority function. See page 21.

POWER SOURCES

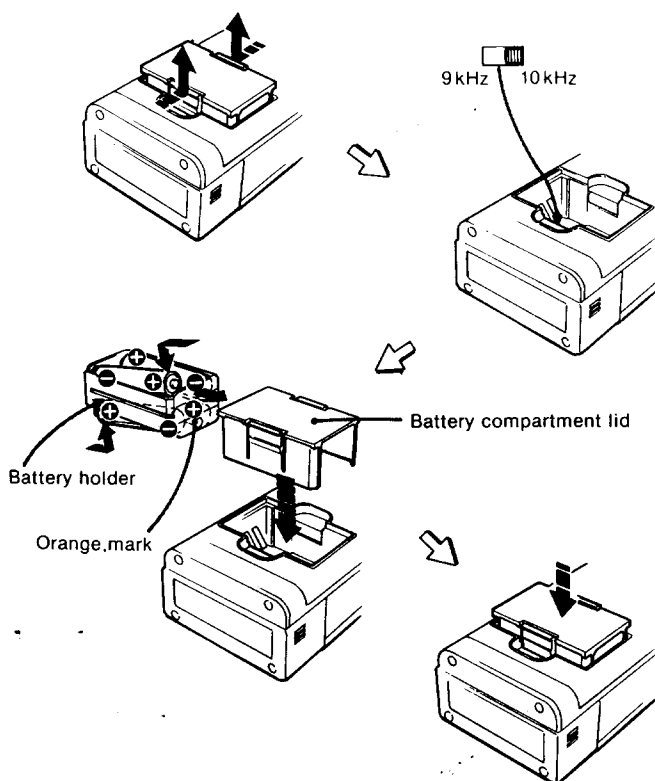
The internal batteries are also used to back up the built-in micro-computer. Be sure to keep the batteries installed even when the receiver is operated on other power sources.

BATTERIES

Battery installation

Insert four size AA batteries (IEC designation R6) with correct polarity.

Before installing, be sure to check that the 9 kHz/10 kHz selector is set to 10 kHz.



Battery life

You can expect Eveready No. 1015 batteries to last for approx. 9 hours for air band, PSB and AM reception and approx. 10 hours for FM reception. This assumes listening for four hours a day at normal volume. When the sound becomes weak or distorted and the display becomes faint, replace all batteries with new ones.

Note on replacement of the batteries

When replacing the batteries, be sure to install new batteries **within 3 minutes**. If the batteries are not installed within 3 minutes, all memory contents will be erased.

Note

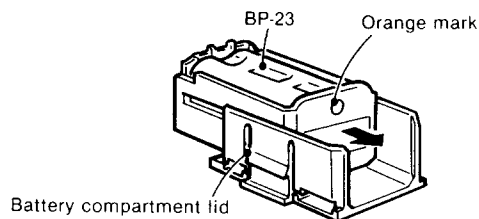
When the atmosphere is especially dry, static electricity may cause the following:

- The display may disappear.
- Random figures may appear in the display.
- The indication preset at the factory—AIR 108 MHz, PSB 144 MHz, FM 76.00 MHz or AM 530 kHz—may appear in the display.
- The frequencies cannot be tuned in.

If any of these things occur, remove and re-install the batteries.

RECHARGEABLE BATTERY PACK

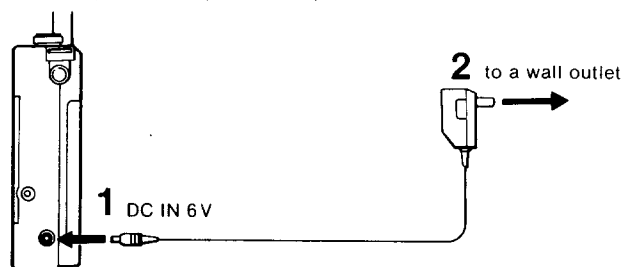
Install the Sony BP-23 rechargeable battery pack (optional) into the battery compartment in place of the batteries.



To charge the battery pack, connect the receiver to a wall outlet using the optional ac power adaptor AC-12. Charging time is about 4.5 hours. Approx. 5 hours of air band and PSB reception is possible.

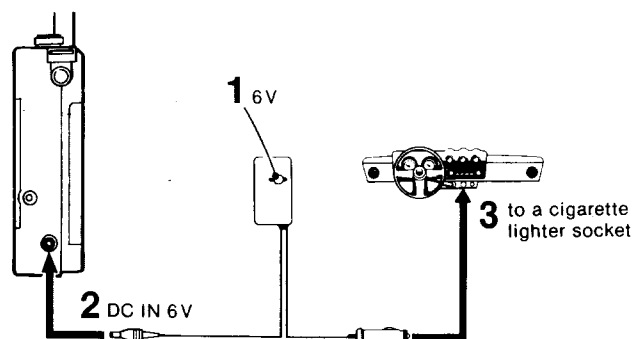
HOUSE CURRENT

Connect the optional ac power adaptor AC-12 as illustrated.



CAR BATTERY

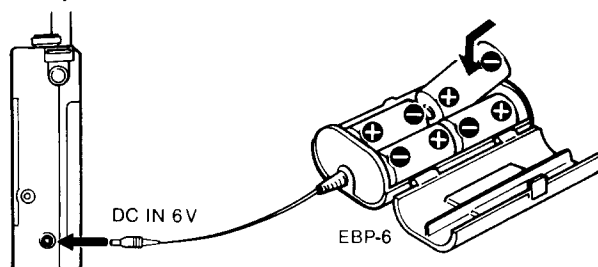
Connect the optional Sony car battery cord DCC-127A or DCC-120 (for 12 V car battery), or DCC-240 (for 24 V car battery) as illustrated.



- Before connecting, be sure to read the instruction manual for the car battery cord.
- Reception may be affected by ignition noise while the engine is running.

BATTERY CASE

Insert four size C (IEC designation R14) batteries with the correct polarity into the Sony EBP-6 battery case (optional), and connect the battery case as illustrated.

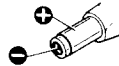


Approx. 20 hours for air band, PSB and AM reception using the Eveready No. 1035 batteries when listening for four hours a day at normal volume is possible.

Caution: When using the battery case EBP-6, be sure to remove the rechargeable battery pack BP-23 and install the batteries in the battery compartment for memory back up. If you leave the BP-23 in the set, the batteries in the battery case will be drained.

Notes

- When an ac power adaptor, car battery cord or battery case is connected to the receiver DC IN 6V jack, the internal batteries are automatically disconnected.
- Use only an ac power adaptor or car battery cord manufactured by Sony. Polarity of the plugs of other manufacturers may be different.



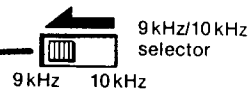
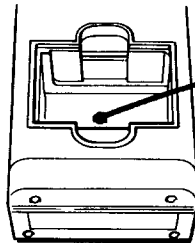
Polarity of the plug of the Sony ac power adaptor or car battery cord

HOW TO CHANGE THE MW TUNING INTERVAL

The MW tuning interval is factory preset to 10 kHz to match the frequency allocation system.

If you use the receiver in an area where the frequency allocation system is based on the other interval, change the position of the 9 kHz/10 kHz selector in the battery compartment as follows.

rear



- 1 Remove the batteries.
- 2 Switch the selector.
- 3 Wait at least 10 minutes, then put back the batteries in the compartment and close the lid.

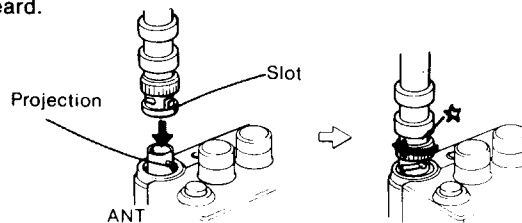
Notes

- If you replace the batteries within approx. 10 minutes after the batteries are removed, the tuning interval will not be changed although the selector has been switched. Be sure to wait for at least 10 minutes.
- After changing the MW tuning interval, memorize the stations and functions again, as the previous memory may have been erased.

INSTALLATION OF THE HELICAL ANTENNA

For air band, PSB or FM reception, use the supplied helical antenna.

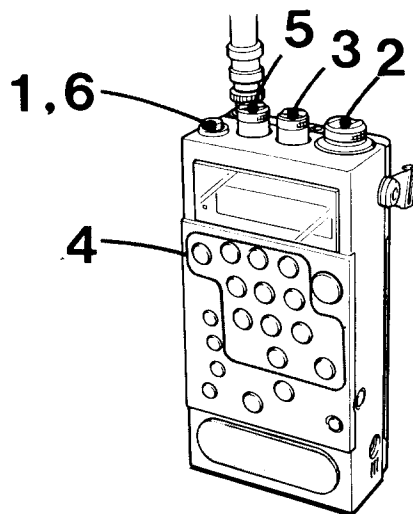
Insert the projection of the set's ANT connector into the slot of the connector on the antenna, and turn the antenna clockwise until a click is heard.



DIRECT TUNING

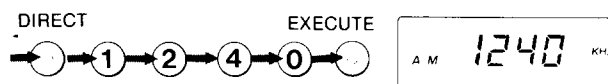
If you know the frequency of a station to be received, you can tune in the station easily by direct tuning.

The numbers in the illustration refer to the sequence of operation.



- 1 Depress the POWER switch (■ ON).
- 2 Set the band selector to the desired band.
- 3 Set the SQL control to MIN.
- 4 Press the DIRECT key, input the frequency of the station to be received using the counter keys, then press the EXECUTE key. The station will be tuned in.

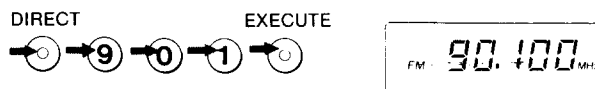
Example: AM 1240 kHz



AM 2000 kHz

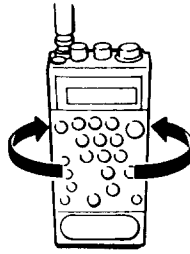


FM 90.10 MHz



- 5 Adjust the volume with the VOL control.
- 6 After listening, press the POWER switch again to turn the receiver off (■ OFF).

For AM reception, the built-in ferrite bar antenna functions. Since this antenna is directional, rotate the set horizontally for optimum reception, if necessary.



Note: After pressing the DIRECT key or a counter key, press the next key within 5 seconds. If you do not, the previous station will return.

The frequency received by this receiver is displayed in steps of the following intervals, depending on the bands.

AIR: 0.025 MHz
PSB: 0.005 MHz
FM: 0.050 MHz
LW: 1 kHz
MW: 10 kHz*
SW: 1 kHz

This is because the frequencies are allocated at these intervals. Therefore, if you input a frequency between the interval, the frequency at the interval just below will be tuned in and displayed. For example, if you input AM 1242 kHz with the tuning interval set to 10 kHz, AM 1240 kHz will be tuned in and displayed.

* This tuning interval can be also set to 9 kHz by switching the 9 kHz/10 kHz selector in the battery compartment. See page 10.

If you input a wrong frequency

Press the DIRECT key again and input the correct frequency.

The TRY AGAIN! indication

If you input a frequency outside the frequency range (AIR 108–136 MHz, PSB 144–174 MHz, FM 76.0–108.0 MHz, AM 150–2194 kHz), the indication TRY AGAIN! will blink in the display. When you input a proper frequency, TRY AGAIN! indication will disappear. If you leave TRY AGAIN! indication blinking, it will disappear after about 5 seconds, and the tuned station's frequency will reappear.

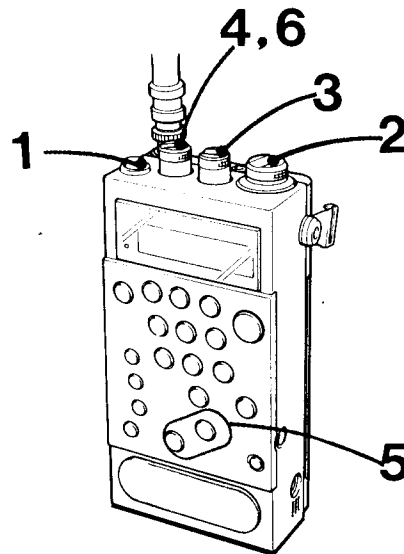
Notes on antenna

- If reception is unsatisfactory with the helical antenna or the built-in ferrite bar antenna, connect an external antenna. To connect an external antenna, see page 23.
- In vehicles or in buildings, reception may be difficult or noisy. Try listening near a window.

SCAN TUNING

Use scan tuning to automatically scan the stations in the frequency range of the band being received. Scanning stops automatically at each station.

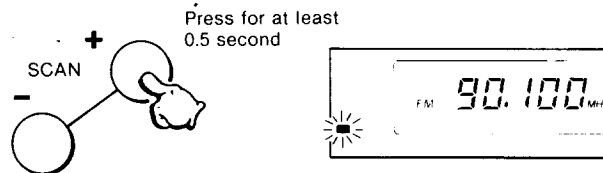
The numbers in the illustration refer to the sequence of operations.



- 1 Depress the POWER switch (■ ON).
- 2 Set the band selector to the desired band.
- 3 Depress the SQL control (■ AUTO).
- 4 Turn the VOL control slightly clockwise.
- 5 Press the SCAN ⊕ or ⊖ key for at least 0.5 second to start scanning, then release the key. The display changes continuously and stops automatically when a station is received.

Pressing the ⊕ key, the tuned frequency is increased.

Pressing the ⊖ key, the frequency is decreased.



Repeat step 5 until the desired station is received.

- 6 Adjust the volume with the VOL control.

- For AM reception, if necessary rotate the set horizontally for optimum reception.
- To stop scanning, press the ⊕ or ⊖ key momentarily.

After listening, set the POWER switch to ■ OFF.

If stations cannot be tuned in by scan tuning with the SQL control set to ■ AUTO, press the SQL control again (■ MANUAL) and adjust the control. (See "How to use the SQL control" on page 14.)

If scanning stops a little before a station, tune in the frequency more precisely by manual tuning. (See page 15.)

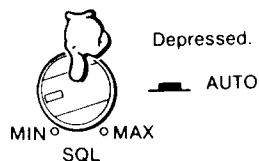
Note on scanning

Scanning is performed in the range of the band being received, at the intervals shown on page 12. When the upper limit of the frequency of that band is reached, the dial is scanned back to the lower limit, and vice versa.

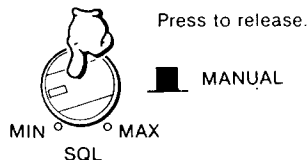
HOW TO USE THE SQL CONTROL

Normally, depress the SQL control (■ AUTO).

Signals and noise below the factory-set level will be suppressed.



Press this control again to release it (■ MANUAL), and adjust the squelch level.

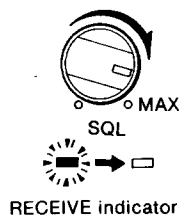


Turn the control counterclockwise (towards MIN) to receive weaker signals.

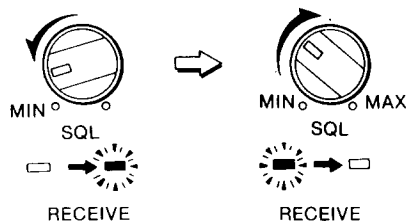


When stations cannot be tuned in with the SQL control set to ■ AUTO during scan tuning and memory scan tuning, adjust the control as follows.

- If **scanning does not begin**, set the control to ■ MANUAL and turn the control slowly clockwise (towards MAX). At the level at which the RECEIVE indicator goes out, scanning will begin. Be careful not to turn the control too far clockwise or weak signals will not be received.



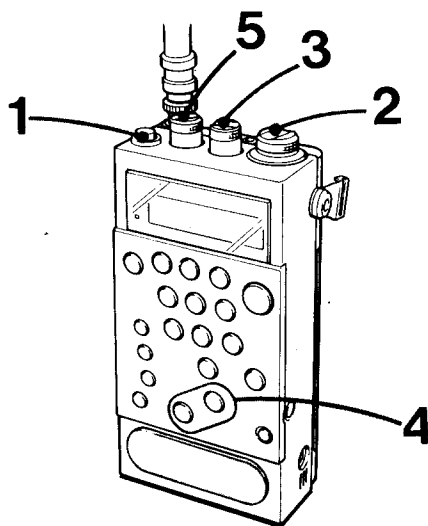
- If **scanning does not stop**, set the control to ■ MANUAL and turn the control slowly counterclockwise (towards MIN). When the RECEIVE indicator lights up, turn the control clockwise again until the indicator goes out.



MANUAL TUNING

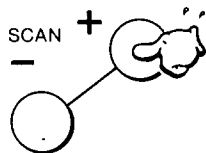
Use manual tuning when you do not know the frequency of the station you want to tune in, or when you want to tune in a station more precisely after scan tuning.

The numbers in the illustration refer to the sequence of operations.

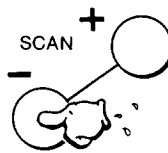


- 1 Depress the POWER switch (ON).
- 2 Set the band selector to the desired band.
- 3 Set the SQL control to MIN.
- 4 ① Keep the SCAN or key pressed until the desired station is received.

For higher frequencies



For lower frequencies



- ② Press the SCAN key momentarily to tune the station precisely. Each time the key is pressed, the frequency is increased or decreased by the intervals shown on page 12.
- 5 Adjust the volume with the VOL control.

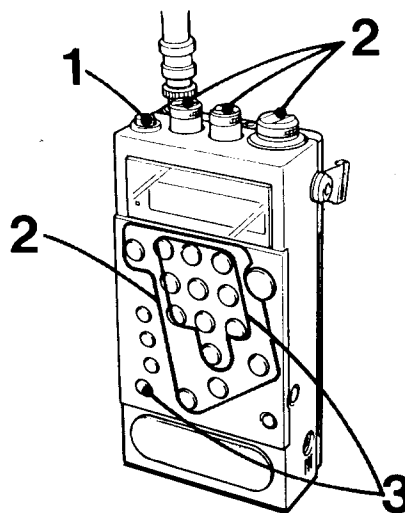
After listening, set the POWER switch to OFF.

MEMORY TUNING

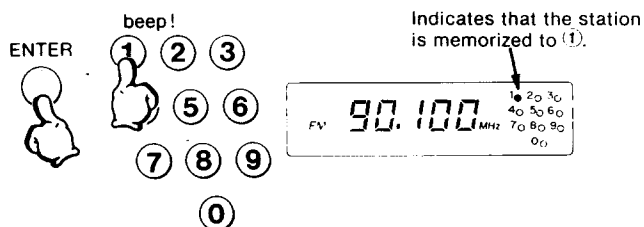
Once the frequencies of the stations you want to tune in are memorized, all you have to do is to push a key. One FM, one AM, one AIR and one PSB station can be memorized to a key, or a total of 40 stations to all the counter keys.

HOW TO MEMORIZE A STATION

The numbers in the illustration refer to the sequence of operations.



- 1 Depress the POWER switch (ON).
- 2 Tune in the desired station using any tuning method—direct tuning (page 11), scan tuning (page 13) or manual tuning (page 15).
- 3 While pressing the ENTER key, press one of the counter keys. A beep sounds and the corresponding dot appears.



Notes

- The frequencies memorized to all the counter keys at the factory are as follows:

AIR: 108 MHz

PSB: 144 MHz

FM: 76 MHz

AM: 530 kHz

- If you memorize another station of the same band to a key on which you have already memorized a station, the previous station will be erased.

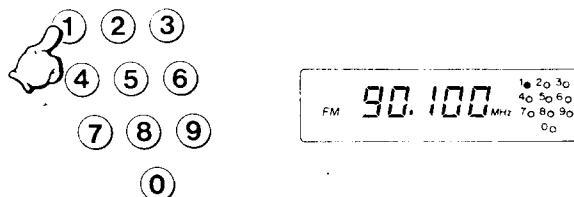
You cannot erase a station without memorizing another station.

To check your memory

After memorizing the stations, press each counter key in turn to check that the desired stations have been memorized correctly. You can recall a station anytime by pressing its counter key.

HOW TO RECEIVE A MEMORIZED STATION

Turn the power on, select the band and press the appropriate counter key. The memorized station will be received.



Note: If no batteries are installed for more than 3 minutes, all memorized stations will be erased.

AIR/PSB reception

You can monitor aviation communications between aircraft and airport towers, such as a pilot's request for instructions, report of his position, and filling of his flight plans.

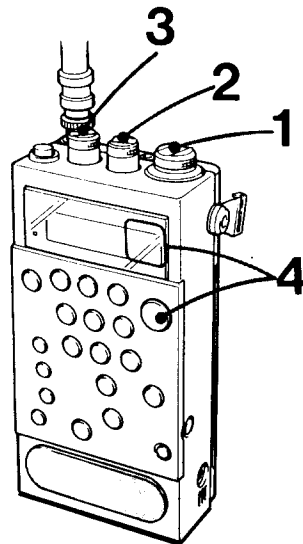
You can also monitor police, fire, forestry conservation, VHF weather, traffic and other public safety radio services, as well as the air band.

Direct tuning, scan tuning, manual tuning and memory tuning

Tuning procedure is the same as for FM or AM reception. See pages 11 to 17.

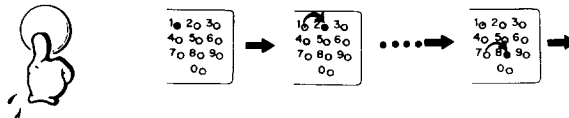
If necessary, set the SQL control to ■ MANUAL and adjust it. (See page 14.)

Follow the numbered sequence.



-
- Depressed.
- AUTO
- MIN ○ ○ MAX
- SQL

- MEMORY SCAN



18

PROGRAM FUNCTION

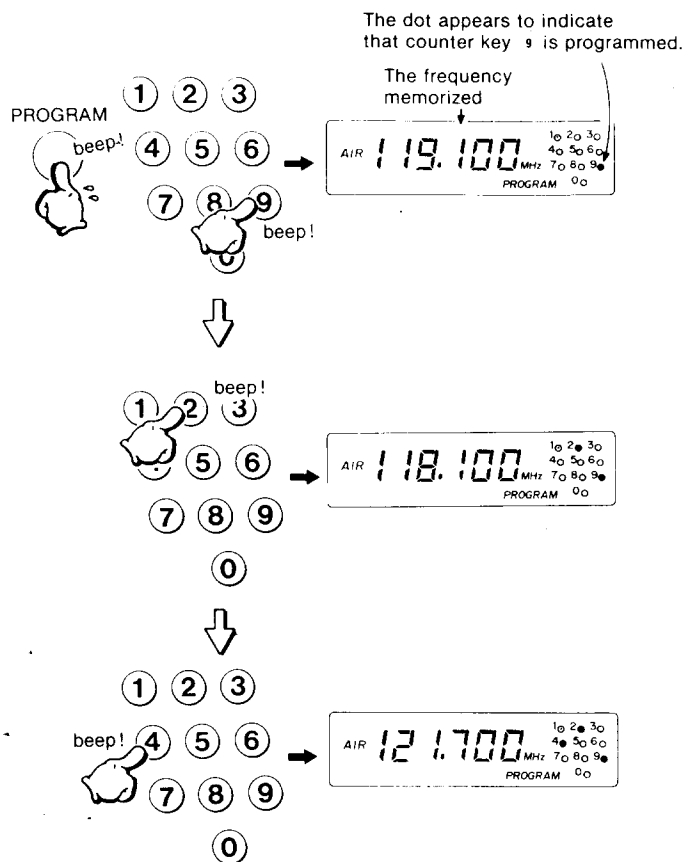
The program function is used to change the sequence of memory scanning and scan only certain keys.

How to activate the program function

Memorize frequencies to all counter keys.

Follow the numbered sequence.

- 1 While pressing the PROGRAM key, press the counter keys in the desired sequence.

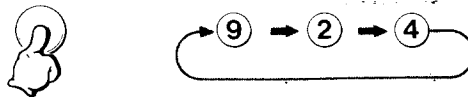


- During programming, the previous station is received.
- You can program the counter keys in any desired sequence of up to 10 scanning points, including programming the same counter key more than once.

- 2 Press the MEMORY SCAN key to start memory scanning.

To scan stations 9, 2 and 4

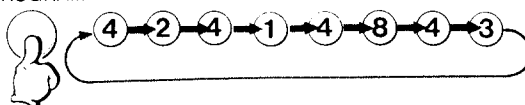
MEMORY SCAN



Example of programming

To tune in a certain station memorized to the 4 key

PROGRAM



PRIORITY FUNCTION

If you are particularly interested in listening to a certain station, designate it as the priority station.

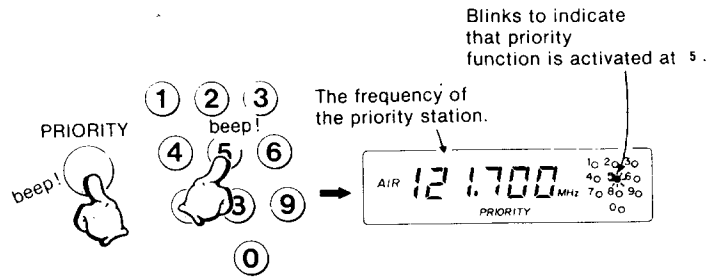
The set automatically tunes to the station every 3 seconds to check whether there is a signal or not, even while another station is being received.

To designate the priority station

Memorize frequencies to all counter keys.

While pressing the PRIORITY key, press the counter key to which the desired frequency is memorized.

If more than two counter keys are pressed, the last key pressed designates the priority station.



- The PRIORITY indication appears in the display. A beep sounds and the corresponding dot blinks.
- When the priority station is tuned in every 3 seconds, the station being received will be interrupted for a fraction of a second.

To cancel the priority station

Press the PRIORITY key again. The PRIORITY indication and the dot in the display disappear.

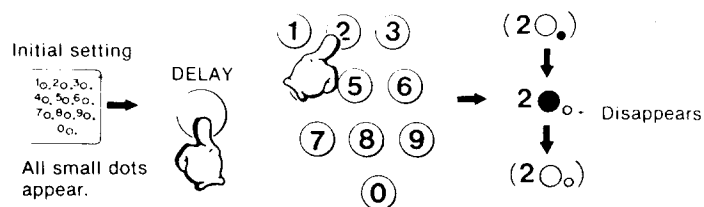
- The priority function can be activated and cancelled while another station is being received.

DELAY FUNCTION

Using the delay function, the station being received will be kept tuned in during memory scanning after the signal stops for approx. 2 seconds, i.e. during the interval between communications. The delay function is activated on all counter keys at the factory.

To cancel the delay function

While pressing the DELAY key, press the counter key on which the delay function is to be cancelled.



The corresponding small dot in the display disappears.

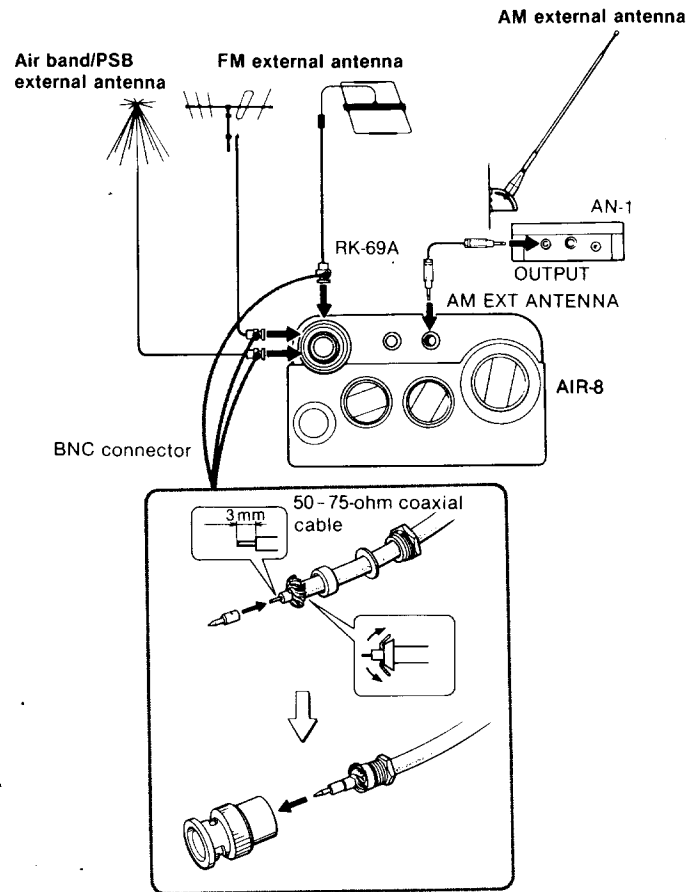
To activate the delay function again

While pressing the DELAY key, press the counter key on which you want the delay function to activate. The small dot in the display appears.

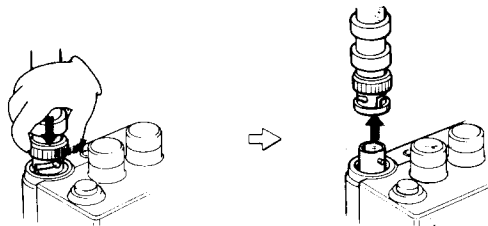
- The delay function can be activated and cancelled while another station is being received.
- Using the delay and priority functions simultaneously, you can receive a station continuously.

EXTERNAL ANTENNA CONNECTION

In a steel-frame building, mountainous areas or at a long distance from the transmitter, reception may be unsatisfactory with the helical antenna or the built-in ferrite bar antenna. In this case, connect a commercially available external antenna to the ANT connector or the AM EXT ANTENNA jack.



To detach the helical antenna, while pressing down the connector on the antenna, turn the antenna counterclockwise, then pull it out.

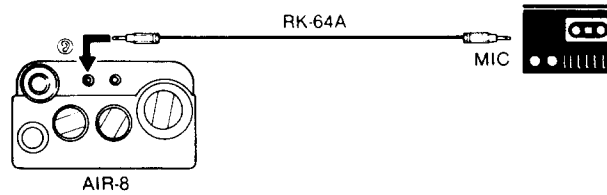


Notes

- The use of a suitable lightning arrestor is recommended if the antenna extends out-of-doors.
- Locate an outdoor antenna as far away from the street as possible.

For further details, see the instruction manual for the antenna.

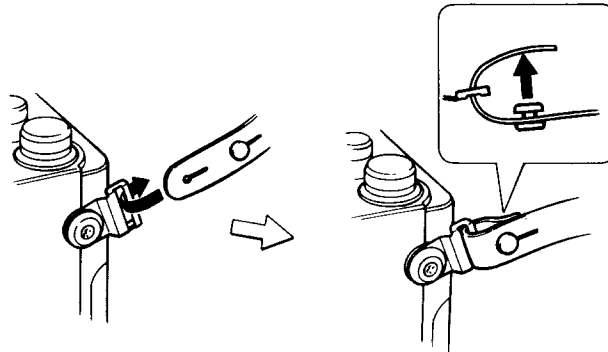
RECORDING A BROADCAST



- 1 Tune in the desired station and adjust the volume to normal listening level.
- 2 Connect the ② jack on the receiver to the microphone input jack on a recorder using the optional RK-64A connecting cord.
- 3 Set the recorder in recording mode.

The sound to be recorded cannot be heard from the speaker. Monitor the sound through the speaker of the tape recorder.

HOW TO USE THE SHOULDER STRAP



SPECIFICATIONS

Circuit system	AIR/PSB/AM: Dual conversion superheterodyne FM: Super heterodyne
Frequency range	AIR: 108–136 MHz PSB: 144–174 MHz FM: 76–108 MHz AM: 150–2,194 kHz LW: 150–529 kHz (150–530 kHz *) MW: 530–1600 kHz (531–1602 kHz *) SW: 1601–2194 kHz (1602–2194 kHz *) * MW tuning interval: 9 kHz
Antennas	AIR/PSB/FM: Helical antenna MW/LW/SW: Built-in ferrite bar antenna External antenna jack AIR/PSB/FM: BNC connector AM (LW/MW/SW): minijack
Speaker	Approx. 7 × 3.5 cm (2 ⁷ / ₈ × 1 ⁷ / ₁₆ inches)
Power output	400 mW (at 10% harmonic distortion)
Output	Earphone jack (minijack)
Power requirements	6 V dc Four size AA batteries (IEC designation R6) (for radio/computer back-up) BP-23 rechargeable battery pack (optional) DC IN 6 V jack accepts: AC-12 ac power adaptor (optional) for use on 120 V ac, 60 Hz DCC-127A or DCC-120 car battery cord (optional) for use with 12 V car battery DCC-240 car battery cord (optional) for use with 24 V car battery EBP-6 battery case (optional) using four size C batteries (IEC designation R14)
Battery life	Approx. 9 hours for air band, PSB and AM reception Approx. 10 hours for FM reception When listening for four hours a day at normal volume, using Eveready No. 1015 batteries
Dimensions	Approx. 90 × 179 × 50 mm (w/h/d) (3 ⁵ / ₈ × 7 ¹ / ₈ × 2 inches) including projecting parts and controls, not including the helical antenna
Weight	Approx. 600 g (1 lb 5 oz) including batteries, shoulder strap and the helical antenna
Accessories supplied	Helical antenna (1) Battery holder (1) Earphone (1) Shoulder strap (1)

Design and specifications subject to change without notice.

Optional accessories

AC power adaptor	AC-12
Rechargeable battery pack	BP-23
Car battery cord	DCC-127A, DCC-120, DCC-240
Connecting cord	RK-69A, RK-64A
LW/MW/SW wide range antenna	AN-1
Battery case	EBP-6
VHF antenna	AN-3

TROUBLESHOOTING GUIDE

Should any problem occur with the set, make the following simple tests to determine whether or not servicing is required. If the problem persists after you have made these tests, consult the nearest Sony dealer for further information.

No sound is heard.

- The VOL control is turned down completely.
- The SQL control is turned too far clockwise (towards MAX).
- The earphone is plugged in.
- Incorrect polarity of batteries. See page 8.

Memory scanning does not begin, although the MEMORY SCAN key is pressed.

- The SQL control is turned too far counterclockwise.
➡ Turn the SQL control slowly clockwise. See page 14.
- The program function is activated and only one station is programmed. ➡ Press the PROGRAM key to cancel the program function, or program two or more stations. See page 19.

Memory scanning does not stop.

- Signals are weak or the SQL control is set to MAX.
➡ Turn the SQL control slowly counterclockwise (towards MIN). See page 14.

The power is not turned on even if you depress the POWER switch (ON).

- Weak batteries.
- Incorrect polarity of batteries. See page 8.

Display is dim.

- Weak batteries. ➡ Replace all the batteries with new ones.
- The set is being used in extremely high temperatures or in a place with excessive moisture.

Very weak or interrupted sound, or unsatisfactory reception.

- Weak batteries.
- Tuning or antenna adjustment is not correct. ➡ Tune in correctly. For antenna adjustment, see page 12.
- Weak signal. ➡ In a vehicle or in a building, listen near a window.

A frequency cannot be input in direct tuning.

- After the DIRECT key or the counter key was pressed, the next key was not pressed within 5 seconds.

A frequency cannot be memorized.

- The memorizing procedure is incorrect. ➡ To input a frequency, while pressing the ENTER key, press one of the counter keys.

A memorized station cannot be received with memory tuning.

- The incorrect counter key is pressed.
- The memorized station was erased because no batteries were installed for more than 3 minutes. ➡ Memorize the station again.