

Operating Instructions

Bedienungsanleitung
Istruzioni per l'uso

FM-LW-MW-SW All Band Receiver

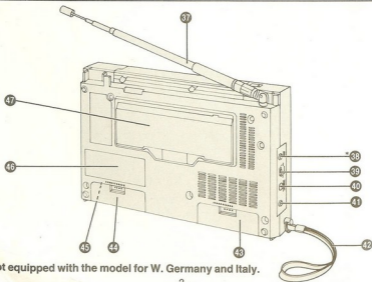
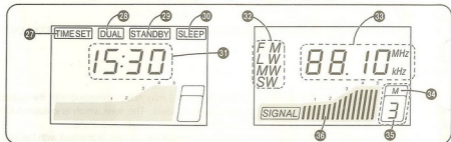
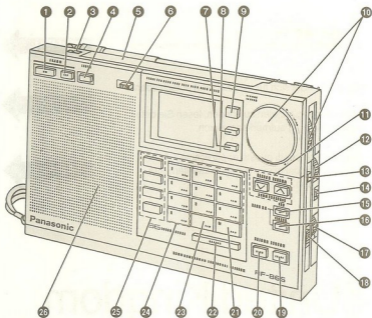
MODEL NO. **RF-B65D/B65DA**



Panasonic

Read these instructions completely before operating this unit.

E EG GL



*³³ is not equipped with the model for W. Germany and Italy.

LOCATION AND FUNCTION OF CONTROLS (Refer to page 3.)

- 1 Operation On Key (ON)**
- 2 Operation Off Key (OFF)**
- 3 Station Reminder Open Switch**

Use the switch to open the Station Reminder cover.
- 4 Sleep Key (SLEEP)**

Press the key to turn the radio off automatically in 60 minutes.
- 5 Station Reminder (STATION REMINDER)**

Attach the included Memory Channel Sheets to the Station Reminder. It is useful for Memory Tuning.
- 6 AM Mode Selector (AM MODE)**

When receiving the SSB (Single Side Band), set to "SSB". For others, set to "NORMAL".
- 7 Time Set Key (TIME SET)**

Press the key when setting a clock time.
- 8 Dual Time Set Key (DUAL TIME)**

This unit enables the dual clock time besides the normal clock time to be set. Press the key when setting the dual clock time, or selecting the display of the normal or dual clock time.
- 9 Display Select Key (CLOCK/FREQ)**

Press the key to select the frequency display or the clock display.
- 10 Rotary Tuning Control (ROTARY TUNING)**
- 11 Up and Down Keys (v • ^)**

Press the Up Key (^) or Down Key (v) to make the frequency change up or down during Manual Tuning and Auto Scan Tuning. Or press to stop Auto Scan Tuning.
- 12 Fine Tuning Control (FINE TUNE)**

When receiving the SSB, use this control for more precise tuning.
- 13 Rotary Tuning Step Selector**

For Rotary Tuning, set the selector to "FAST" or "SLOW" to make the frequency change at your desired tuning steps. In "LOCK" position, Rotary Tuning cannot operate. So, the frequency being received will be locked, and cannot be drifted accidentally.
- 14 Tone Selector (TONE)**
- 15 Standby Time Set Key (SET)**

Press the key to set the time you want to turn the radio on automatically.
- 16 Standby Time Cancel Key (CANCEL)**

Press the key to cancel the standby time.
- 17 Volume Control (VOLUME)**
- 18 Hold Switch (HOLD)**

Usually set the switch to the opposite direction of the arrow.
When it is set to the direction of the arrow, the operation of all the keys and the Rotary Tuning Control will be locked.
It is effective during both the radio-on and off.
- 19 Meter Band Direct Access Key (METER)**

Press the key before calling the lowest frequency of the SW meter band including your desired station.
- 20 Frequency Direct Access Key (FREQ)**

When you know the frequency of your desired station, press the key before entering the frequency number.
- 21 Memory/Meter Band Key**

Use the key first when you preset the desired stations into each of the memory channels. This key also functions as the Meter Band Key, which can call the lowest frequency of a SW meter band.
- 22 Enter Key (ENTER)**

After entering the frequency number of your desired station or the number of a clock time, press the key to begin receiving the broadcast of the station or to complete the time setting.
- 23 Decimal Point/Meter Band Key**

For Frequency Direct Access Tuning, use the key to enter the decimal point of the frequency.
This key also functions as the Meter Band Key.

24 Number/Memory Channel/Meter Band Keys

Press the keys in the following ways.

- In Frequency Direct Access Tuning, to enter the frequency number of your desired stations.
- In Memory Tuning, to preset and call the stations.
- In Meter Band Direct Access Tuning, to call the lowest frequency of a SW meter band.

(The model for Italy doesn't have the 120 m and 90 m indications on the keys.)

25 Band Select Keys

26 Speaker

LCD Multi-Information Display

Clock Display:

27 Time Set Indicator

flashes while the clock time is being set.

28 Dual Time Indicator

appears while the dual time is being set or displayed.

29 Standby Indicator

appears while the Standby function is operating, or flashes while the standby time is being set.

30 Sleep Indicator

appears while the sleep timer is operating. Or flashes during radio-on by standby function.

31 Clock Time Display

Frequency Display:

32 Band Indicators

received band appears.

33 Frequency Display

34 Memory Indicator

appears when memory tuning is done, or flashes when you memorize a frequency.

35 Memory Channel Indicator

indicates the memory channel when the frequency is received by memory tuning.

36 Signal Indication

appears when a signal is received. The bar displays indicate the receiving condition.

37 Telescopic Antenna

*** 38 External Antenna Jack (EXT ANT)**

39 Sensitivity Selector (SENS)

40 DC Input Jack (DC IN 6V ⊖ ⊕)

41 Earphone Jack (Ⓢ)

Connect the included earphone to the jack.
• Adjust the volume to lower level so as not to injure your ear.

42 Carrying Strap

43 Radio Battery Compartment (RADIO BATTERY)

44 Memory Back-up Battery Compartment (BACK-UP BATTERY)

45 MW Frequency Step Selector (In the Memory Back-up Battery Compartment)

Before use, check that the selector is set to the frequency step corresponding to your area.

If not, set the selector to the correct position.

46 World Time Table

47 Stand/Short Wave Frequency Allocation

PRECAUTIONS

If the lightning occurs when you are using the External Antenna and the AC adaptor is connected, disconnect the AC adaptor from the AC power outlet. Never touch the External Antenna and the Telescopic Antenna during lightning.



HELPFUL HINTS

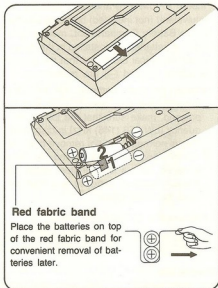
- If the set is not used for a long period of time, remove all the radio batteries to prevent potential damage due to possible battery leakage.
- Do not subject the set to a temperature of over 60°C (140°F), because characteristics of the internal parts may be adversely affected by heat. Especially, never leave the set in a car exposed to direct sunlight for a long period of time with all the doors and windows closed. The cabinet may become deformed, and deterioration of the performance may result.
- If this unit is moved from a cold area (say 0°C) to a warm place it may not operate normally. This is the result of moisture in certain areas. In approximately 60 minutes, the unit will be operating correctly.
- This unit contains liquid crystal. If it is used at extreme high or low temperature, the display may be abnormal or the display speed may become slightly slow (the correct display will be restored at usual temperature).
- Since a strong magnet is used for the speaker, keep magnetized commuter passes, tickets or personal credit cards, recorded tapes, watches, etc. away from the radio. The speaker magnet in the radio may damage them.
- Do not place the set near strong magnets such as those used in radios, television sets, speaker boxes, etc. as this may cause the frequency to drift.
- Do not drop or give the set a strong impact since the set is composed of precise parts.
- When listening in a train, car, or building, use the radio near a window to obtain the best possible reception. Reception may be difficult in a tunnel or subway. Also note that operating the radio on a metal object may adversely affect reception.
- Do not use benzine, thinner, or the like, or any abrasive powder to clean the cabinet. Wipe it with a soft cloth moistened with a mild soap and water solution.
- Avoid spray-type insecticides. Some insecticides contain chemicals that could cause cabinet deformation.

POWER SOURCE

- Before use, make sure that the memory back-up batteries are installed.
- The memory back-up batteries are used for the memory of clock times and radio stations.

■ Memory back-up batteries

1. Open the Memory Back-up Battery Compartment cover as shown in the figure.
2. Insert 2 UM-3 (Panasonic R6/LR6 or equivalent) (not included) batteries into the Memory Back-up Battery Compartment, making sure that the batteries are installed in the designated numerical order and that the proper polarities (\oplus and \ominus) are maintained.
 - When you have installed the batteries, make sure that "000" begins flashing. This is normal. If not so, remove the batteries and after a few minutes, install them again.
3. Replace the compartment cover.



● Battery life

These batteries can operate for a year with the radio batteries installed.

Notes:

- When replacing the memory back-up batteries, be sure to install the radio batteries or connect the AC adaptor. The radio batteries or an AC power source can hold the memory for clock times and radio stations.
- If the batteries remain installed for more than a year, it causes damage due to battery leakage. Be sure to replace the batteries once a year.

To Prevent Possible Damage to this Unit

- Load new batteries with their polarities (\oplus and \ominus) aligned correctly.
- Do not apply heat to batteries, or internal short-circuit may occur.
- Remove spent batteries immediately.
- Do not use old and new batteries together. Also never use an alkaline battery with a manganese battery.

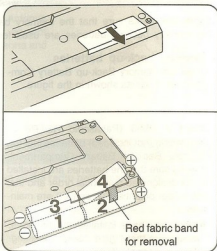
■ Radio Battery Operation

1. Open the Radio Battery Compartment cover as shown in the figure.

2. Insert 4 UM-3 (Panasonic R6/LR6 or equivalent) (not included) batteries into the Radio Battery Compartment, making sure that the batteries are installed in the designated numerical order and that the proper polarities (\oplus and \ominus) are maintained.

●When the radio batteries are installed correctly and the Operation On Key is pressed, make sure that the lowest frequency [LW 153 (146) kHz] is displayed. This is normal. If not so, remove both the memory back-up batteries and the radio batteries. After a few minutes, install the memory back-up batteries and then the radio batteries again.

3. Replace the compartment cover.



●Battery life

If the radio batteries become weakened during radio reception, the error indication will begin flashing. After about 10 seconds the radio will be automatically turned off, and a clock time will be displayed.

If the radio is suddenly turned off during radio reception, press the Operation On Key. If the radio is turned off again in a few minutes, replace all the radio batteries with new ones.

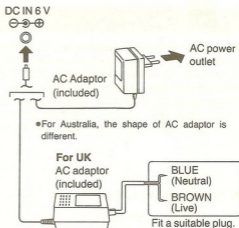


Notes:

- The error indication can operate only during radio reception.
- While setting the clock time or the stand-by time, the error indication cannot operate even if during radio reception.
- While the error indication is flashing, all the keys except for the Operation Off Key cannot operate.
- When replacing the radio batteries, be sure to disconnect the AC adaptor.

■ AC Power Operation

1. Insert the plug at the end of the AC adaptor cord into the DC Input Jack.
2. Plug the AC adaptor unit into your household AC power outlet.



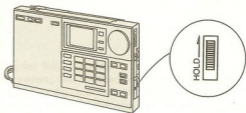
Note:

To operate on radio battery power, unplug the AC adaptor unit from the household AC power outlet and the DC Input Jack on the unit.

HOLD FUNCTION

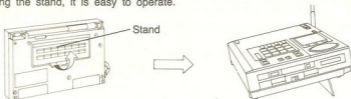
The Hold Function enables all the keys in the front panel and the Rotary Tuning Control not to operate. So, the frequency being received and the clock times being set are locked and cannot be changed accidentally. And even if the Operation Off Key is pressed by mistake, the radio cannot be turned off. It is useful when you carry the unit, listening to the radio. This function operates also during radio-off. Even if the Operation On Key is pressed by mistake, the radio cannot be turned on. It prevents the batteries from being wasted.

- To operate the Hold Function, set the Hold Switch to the direction of the arrow. Then the Hold Indicator (**HOLD**) will appear.



STAND

By using the stand, it is easy to operate.



CLOCK OPERATION

This unit can set the dual clock time besides the normal clock time. The dual clock time is useful, when you listen to the broadcast in a foreign country, to set the standard time adapted in that country. It can be found out by referring to the World Time Table on the back of the unit.

- The clock time is displayed in 24-hour display.
- If you are listening to the radio (the frequency is being displayed), press the Display Select Key or the Operation Off Key to change to the clock display. (When the Display Select Key is pressed, you can continue to listen.) After that, begin the time setting.

■ To set the normal clock time

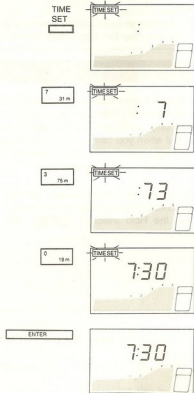
1. Press the Time Set Key.
 - The Time Set Indicator will begin flashing.
2. Press the Number Keys to enter the number of the clock time.
3. Press the Enter Key.

- If you want to change the number to be entered before pressing the Enter Key, press the Time Set Key.

(A return is made to the display of the clock time shown last.)

When the Time Set Key is pressed again, re-setting would be possible.

Example: To set at 7:30



Time setting at 7:30 is completed.

■ To set the dual clock time

1. Press the Dual Time Set Key.

- The Dual Time Indicator will be displayed and the clock time display (00:00) will begin flashing. (If you set the dual time before, it will be displayed.)

2. Press the Time Set Key.

- The Time Set Indicator will begin flashing.

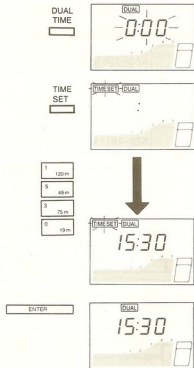
3. Press the Number Keys to enter the number of the dual clock time.

4. Press the Enter Key.

●To return the display of the normal clock time:
Press the Dual Time Set Key.

●To make sure the dual clock time when the normal clock time is being displayed:
Press the Dual Time Set Key.

Example: To set at 15:30



Time setting at 15:30 is completed.

■ Notes for Time Setting

- The seconds will begin counting when the Enter Key is pressed.
- After pressing the Time Set Key, or between pressing one Number Key and the next, if more than about 10 seconds is allowed to elapse, the display of the clock time indicated last will be returned.
- When the impossible time (ex. 25:00) is entered, the error indication will appear. After a few seconds, a return is made to the previous display. Then press the Time Set Key again and enter the correct number.
- The Time Set Key is designed not to be pressed easily, so as to prevent the clock time display from changing accidentally. If you cannot press the key with your finger, insert the tip of a ball-point pen into the depression of the key.

RADIO OPERATION

■ Reception Frequency Table

Band	Frequency Range
FM	87.5–108 MHz
LW	153–519 kHz
	146–288 kHz (only for Italy)
MW	522–1611 kHz (at 9 kHz step)
	520–1610 kHz (at 10 kHz step)
SW	1.615–29.999 MHz
	1.615–26.100 MHz (only for RF-B65D, W. Germany)
	3.800–26.100 MHz (only for Italy)

SW Meter Band	Frequency Range
120 m*	2.300–2.495 MHz
90 m*	3.200–3.400 MHz
75 m	3.900–4.000 MHz
60 m	4.750–5.060 MHz
49 m	5.950–6.200 MHz
41 m	7.100–7.300 MHz
31 m	9.500–9.900 MHz
25 m	11.650–12.050 MHz
21 m	13.600–13.800 MHz
19 m	15.100–15.600 MHz
16 m	17.550–17.900 MHz
13 m	21.450–21.850 MHz
11 m	25.670–26.100 MHz

*Reception is impossible by the model for Italy.

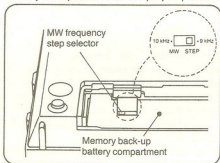
Note:

As there is no Meter Band Key corresponding to the 11 meter band (SW), use the Frequency Direct Access Tuning or the Rotary Tuning or the Up and Down Tuning mode to tune to any station on that band.

■ To set the proper MW Frequency Step

The MW frequency step in this unit is set corresponding to the area where you purchased this unit. If you use the unit in the area where the frequency step of the broadcasts is different, set the MW Frequency Step Selector inside the Memory Back-up Battery Compartment to the proper position.

1. Remove both all the memory back-up batteries and all the radio batteries.
When an AC power source has been used, disconnect the AC adaptor.
2. Set the MW Frequency Step Selector to the proper position.
3. After about one minute, install the memory back-up batteries and the radio batteries and close the compartment covers.



Notes:

- When changing the frequency step, be sure to remove the radio batteries or disconnect the AC adaptor. If not, the received frequency step cannot be changed to the selected frequency step.
- When re-installing the memory back-up and radio batteries or re-connect the AC adaptor, be sure to do after more than about one minute.
- When the memory back-up batteries and the radio batteries are removed, the memories of the radio stations and the clock times may be lost. Be sure to reset the memories and the clock times.

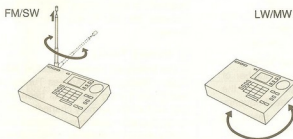
■ Antennas

FM/SW:

Pull out the Telescopic Antenna and adjust its length and angle for optimum reception.

LW/MW:

The sensitive ferrite core antenna inside the set will provide excellent LW/MW reception in most areas. For optimum reception, turn the set in the direction which gives the best results since the ferrite core antenna is directional.



Caution when adjusting the Telescopic Antenna

- If you wish to adjust the Telescopic Antenna, pull the base of the antenna and then pull the remaining sections to extend it fully. If this unit is positioned horizontally or the stand is used, you will not be able to adjust the antenna unless the base has been pulled free of the set.
- When folding up the antenna, first push the base back into the set and then push the antenna elements back together starting with the thicker ones.

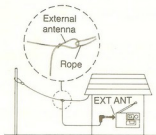


● External Antenna

(not equipped for W. Germany and Italy)

If SW reception is poor when using the Telescopic Antenna, or if you want to get more clear reception, connect the included External Antenna Cord to the External Antenna Jack.

- It is also useful for FM, LW and MW reception especially when weak stations aren't received in a ferro-concrete building.



■ Tuning Mode

This unit has the following tuning modes:

1 Rotary Tuning

Turning the Rotary Tuning Control makes the frequency change up or down. And setting the Rotary Tuning Step Selector to slow and turning the control enable you to get more precise tuning.

This tuning mode is useful when you do not know the frequency of your desired station and when you want to tune precisely.

2 Frequency Direct Access Tuning

When you know the frequency number of your desired station, you can tune in the station directly by entering the frequency number. It is not necessary to select the band with the Band Select Key.

3 Meter Band Direct Access Tuning

For SW reception, when you know the meter band including your desired station, you can call the lowest frequency of the meter band. To tune in your desired station more precisely, use the Rotary Tuning or Up and Down Tuning mode.

4 Up and Down Tuning (Manual Tuning/Auto Scan Tuning)

Pressing the Up Key (∧) or Down Key (∨) makes the frequency change up or down. Use this tuning when you do not know the frequency of your desired station. This mode includes Manual Tuning and Auto Scan Tuning.

5 Memory Tuning

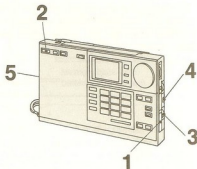
If the broadcast stations selected with the Rotary Tuning, Direct-Access Tuning or Up and Down Tuning mode has been entered into each of the memory channels (channels 1~9), you can recall those selected stations easily, merely by pressing the corresponding Memory Channel Key.

●Memory Tuning can be memorized the four bands (FM•LW•MW•SW) into each of nine channels. So, in total, 36 stations memories are preset.

■ Before Operation

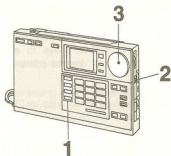
Be sure to check the following points before operating this unit.

1. The Hold Switch is set to the opposite direction of the arrow. If not, all the Operation Keys cannot operate.
2. The Operation On Key is pressed.
3. The volume is adjusted by the Volume Control.
4. The tone is selected to "HIGH" or "LOW" by the Tone Selector.
5. The Sensitivity Selector is set to the proper position.
Normally set to "DX". When the reception is impaired or interfered by powerfull station, set to "LOCAL". It doesn't work for FM reception.



1 Rotary Tuning

1. Select the desired radio band by pressing one of the Band Select Keys.
2. Set the Rotary Tuning Step Selector to the desired position, "FAST" or "SLOW".
When the Rotary Tuning Control is turned, the frequency changes at the following steps, which are different between the bands.

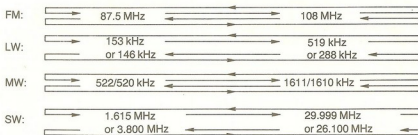


Tuning Step \ Band	FM	LW	MW		SW
	FAST	100 kHz	9 kHz	9 kHz	10 kHz
SLOW	50 kHz	1 kHz	1 kHz	1 kHz	1 kHz

● In MW band, "FAST" step (9 kHz or 10 kHz) is corresponding to each position of MW Frequency Step Selector.

3. Turn the Rotary Tuning Control to tune in your favorite station.
When turning to the direction of "STEP UP", the frequency will be up. When turning to "STEP DOWN", it will be down.

● If the receiving frequency reaches the upper or lower limits of each band, it will automatically switch respectively to the lower or upper ends of the frequency scale.



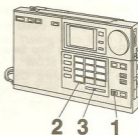
● When the Rotary Tuning Step Selector is set to "LOCK", the frequency being received will be locked, and cannot be drifted accidentally by the Rotary Tuning Control.

Note:

During Rotary Tuning, the keys except for the Operation Off Key cannot operate.

2 Frequency Direct Access Tuning

1. Press the Frequency Direct Access Tuning Key.
2. Press the Number Keys to enter the frequency number of your desired station.
3. Press the Enter Key.
 - The received band, "kHz" or "MHz", and the signal indication will be displayed.



•Before pressing the Enter key, if the displayed frequency is found to differ from the desired tuning frequency, upon pressing the Frequency Direct Access Key, the original frequency display will be resumed. However, when the latter Key is pressed again, re-setting of the display would be possible.

•When the digits following the decimal point or the last digit in the fraction are to be "0"s, the entry process can be abbreviated by pressing Enter Key.

Example:

	Press the Enter Key
5.	→SW 5.000 MHz
88.1	→FM 88.10 MHz

•In case of FM, the last digit is either 0 or 5. During Direct Access Tuning, when other digits are entered, upon pressing the Enter Key, digits 0-4 will be rounded to 0 and 5-9 will be rounded to 5.

•In case of SW, the frequency number can be entered in kHz and MHz. However, the frequency is always displayed in MHz. If you enter in kHz and press the Enter Key, the frequency will be displayed in MHz automatically.

Example:

	Press the Enter Key
11.955	→SW 11.955 MHz
11955	→SW 11.955 MHz

Example: FM: 88.10 MHz

FREQ

8

88

88.1

ENTER

FM 88.10 MHz

SIGNAL

Notes:

● During Frequency Direct Access Tuning mode, the error indication will appear when the reception frequency is set outside of the broadcasting band. After a few seconds, a return is made to the display of the frequency shown before pressing the Frequency Direct Access Key.



In this case, press the Frequency Direct Access Key again, enter the correct frequency number.

● After pressing the Frequency Direct Access Key, or between pressing one Number Key and the next, if more than about 10 seconds is allowed to elapse, a return is made to the display of the frequency shown before pressing the Frequency Direct Access Key.

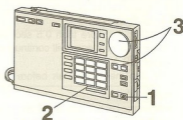
3 Meter Band Direct Access Tuning

The Number Keys, Decimal Point Key and Memory Key can function as the Meter Band Keys.

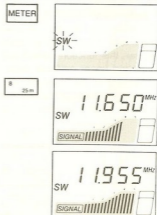
(Refer to "Reception Frequency Table" on page 12.)

1. Press the Meter Band Direct Access Key.
 - The Band Indicator (SW) will begin flashing.
2. Press the desired Meter Band Key.
 - The lowest frequency of the meter band can be called.
3. To tune in your desired station more precisely, use the Rotary Tuning or Up and Down Tuning mode.

● When you want to return to the previous display after pressing the Meter Band Direct Access Key, press the key again.



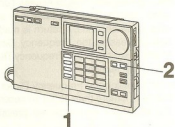
Example: To receive 11.955 MHz (in 25 meter band)

**Note:**

After pressing the Meter Band Direct Access Key, if more than about 10 seconds is allowed to elapse, a return is made to the display of the frequency shown before pressing the Meter Band Direct Access Key.

4 Up and Down Tuning

1. Select the desired radio band by pressing one of the Band Select Keys.
2. Tune in your desired station by using the Up Key (\wedge) and/or Down Key (\vee).



Manual Tuning

Pressing one by one makes the frequency change at the following steps.

FM	LW	MW		SW
100 kHz	9 kHz	9 kHz	10 kHz	5 kHz

Auto Scan Tuning

Pressing for more than 0.5 seconds makes the frequency change rapidly. If you release your finger, the frequency will continue to change and automatically stop when broadcasting station is received.

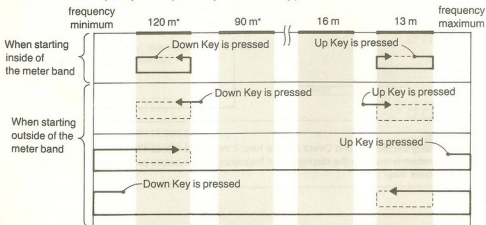
To stop the Auto Scan before automatic stop, press the Up or Down Key.

Notes:

- While the Up or Down Key is being pressed, the Up or Down tuning operation will not stop even if there is a station on the way.
- If a powerful station is received, the Auto Scan will automatically stop. But the receiving frequency may be a little apart from the correct frequency. In this case, set the Rotary Tuning Step Selector to "SLOW" and tune by Rotary Tuning.

SW Auto Scan Tuning:

- If the receiving frequency reaches the upper or lower limits of each meter band, it will switch respectively to the lower or upper ends of the frequency scale of the meter band. However, this function cannot operate in case of 11 meter band. So, the receiving frequency will exceed the upper or lower ends of the 11 meter band.
- If the Auto Scan starts outside of a meter band or starts in 11 meter band, the frequency will change and enter the next meter band. And the frequency will change between the upper and lower ends of the meter band. (*Reception is impossible by the model for Italy.)



5 Memory Tuning

■ To memorize the station

1. Tune in the desired station by using the desired tuning mode.

2. Press the Memory Key.

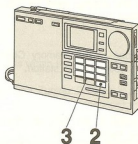
•The Memory Indicator will begin flashing.

3. Press one of the Memory Channel Keys into which you wish to memorize the selected station.

•The selected channel number will be displayed, and the Memory Indicator will stop flashing.

4. Repeat the steps 1~3 to memorize a station in each of the remained Memory Channel Keys.

•When a new frequency is memorized, the frequency previously memorized in the channel will be cancelled.



Example: To memorize MW 1008 kHz into memory channel 3



M
13 m



3
75 m



Notes:

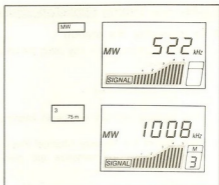
- The frequency cannot be memorized in 0 Key. Be sure to memorize it in one of the Memory Channel Keys (1~9).
- Pressing the Memory Key twice makes the Memory Indicator disappear.

■ Memory Tuning

1. Select the desired band by pressing one of the Band Select Keys.
2. Press one of the Memory Channel Keys to receive your desired station.

Note:

When tuning to the SSB, add the adjusting by the Fine Tuning Control.



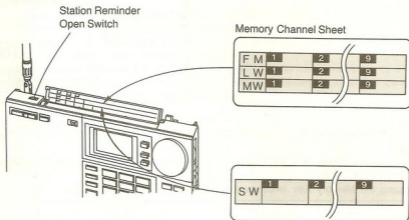
■ Last One Memory

This memory is used during radio-off. When the radio is switched on, the frequency received before it was switched off is tuned in again.

STATION REMINDER

The Station Reminder is useful for your memory. Write in the frequency number of the broadcasting station which has been stored in the memory on the included Memory Channel Sheets and adhere it to the inside of the Station Reminder.

- To open the Station Reminder cover, set the Station Reminder Open Switch to the direction of "OPEN".
- To close the cover completely, press the side indicated as "CLOSE".



SSB

SSB reception is an additional function to the normal SW reception.

Add the following procedures.

- Set the AM Mode Selector to "SSB".
- Use the Fine Tuning Control for more precise tuning.

Note:

The possible reception range by using the Fine Tuning Control is within the 2 kHz more or less than the displayed frequency.

The displayed frequency will not change even if using the Fine Tuning Control.

SLEEP FUNCTION

You can set the radio to play for 60 minutes, and then shut off automatically.

1. Tune in the desired broadcast by using any of the tuning modes.
2. Press the Sleep Key.
 - The Sleep Indicator will be displayed.
 - The unit will be automatically turned off after 60 minutes, and the display of the clock time will be returned.

Example: SW 9.670 MHz

SLEEP



●To turn the unit off during sleep operation:

Press the Operation Off Key.

●To cancel the sleep timer during sleep operation and continue listening:

Press the Operation On Key.

- If you press the Sleep Key during sleep operation, the sleep timer will start again at that time.

Note:

Even if the Hold Switch is set on during sleep operation, the radio will be turned off automatically in 60 minutes.

However the Hold Function operates both during radio-on and after automatic radio-off.

STANDBY FUNCTION

The radio can be activated automatically at your desired time, and shut off automatically after 90 minutes since the radio has turned on.

When you have set the standby time and it coincides with the clock time being displayed, the radio will be turned on automatically. This is effective also when the dual clock time is being displayed, and so it is useful when you want to listen to the desired broadcast at a certain time in a foreign country.

1. Tune in the station you want to listen to at the standby time.
2. Press the Operation Off Key.
 - The clock time display will appear.
3. Press the Standby Set Key.
 - The Standby Indicator will begin flashing and the clock time will be displayed.
(If you set the standby time before, it will be displayed.)
4. Press the Number Keys to enter the number of the standby time.
5. Press the Enter Key.
 - The clock time display will be returned and the standby indicator will stop flashing.
 - Setting the standby time is completed.

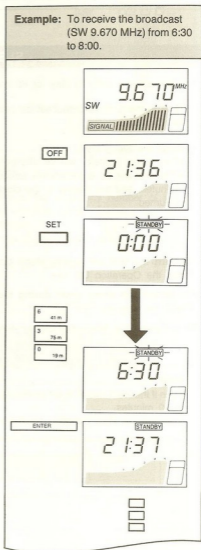
•In step 2, the clock time display will also appear by pressing the Display Select Key. Then, you can continue to listen with setting the standby time. But when you set the standby timer, be sure to press the Operation Off Key.

•If you want to change the number to be entered before pressing the Enter Key, press the Standby Set Key. (A return is made to the display of the clock time shown last.) Pressing the Standby Set Key again makes the resetting possible.

•To cancel the standby timer:
Press the Standby Cancel Key.

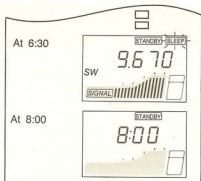
•To make sure the standby time:
Press the Standby Set Key.
To return to the previous display, press the Enter Key.

Example: To receive the broadcast (SW 9.670 MHz) from 6:30 to 8:00.



- When the standby time coincides with the clock time (normal or dual) being displayed, the radio will be turned on. Then, the Sleep Indicator will begin flashing.
- After 90 minutes from the standby time, the radio will be turned off. The Sleep Indicator will disappear.

- To turn off the radio before automatic radio-off: Press the Operation Off Key.
- To cancel the automatic radio-off and continue to listen: Press the Operation On Key.



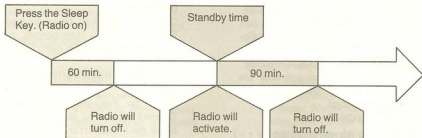
Notes:

- After pressing the Standby Set Key, or between pressing one Number Key and the next, if more than about 10 seconds is allowed to elapse, a return is made to the display of the clock time shown before pressing the Standby Set Key.
 - Even if the Hold Switch is set on when the standby time has come and the radio is turned on, the radio will be turned off in 90 minutes. And even if the Hold Switch is set on before the standby time comes, the radio will be turned on at the standby time and turned off in 90 minutes automatically.
- However the Hold Function operates both during radio-on and after automatic radio-off.

OPERATION IN COMBINATION SLEEP AND STANDBY FUNCTION

You can set the radio to play for 60 minutes and shut off automatically, and then activate the radio automatically at the desired standby time, and shut off automatically after 90 minutes.

1. Follow the procedure 1-5 described in "STANDBY FUNCTION".
2. Press the Sleep Key.



Notes:

- If the standby time has come during sleep operation, the sleep timer is effective. In this case, the Standby Function cannot operate.
- If you press the Sleep Key during standby operation, the standby operation is cancelled and the sleep operation starts from then.

SPECIFICATIONS

Radio Frequency Range:	FM; 87.5–108 MHz LW; 153–519 kHz Only for Italy 146–288 kHz MW; 522–1611 kHz (at 9 kHz step) 520–1610 kHz (at 10 kHz step) SW; 1.615–29.999 MHz Only RF-B65D for W. Germany 1.615–26.1 MHz Only for Italy 3.8–26.1 MHz
Power Source:	Battery; 6 V (four UM-3, "R6/LR6" batteries) 3 V (two UM-3, "R6/LR6" batteries for memory back-up) AC; 220 V, 50 Hz with included AC adaptor (For UK and Australia, 240 V, 50 Hz with included AC adaptor) Power consumption; 5 W
Speaker:	8 cm, 8 Ω
Power Output:	550 mW (RMS Max.)
Jacks:	Earphone; \varnothing 3.5 mm, 8 Ω EXT. ANT. (not equipped for W. Germany and Italy) DC IN; 6 V
Dimensions: (W×H×D)	198×118×33.5 mm
Weight:	625 g without batteries

Design and Specifications are subject to change without notice.

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