

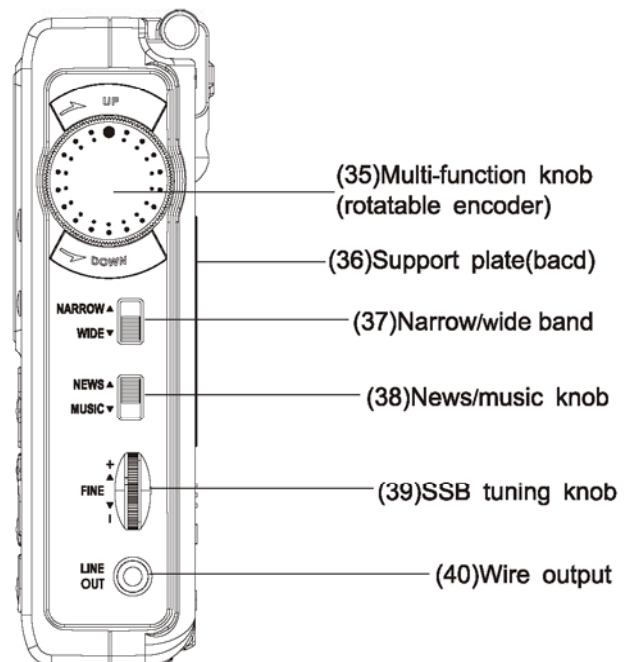
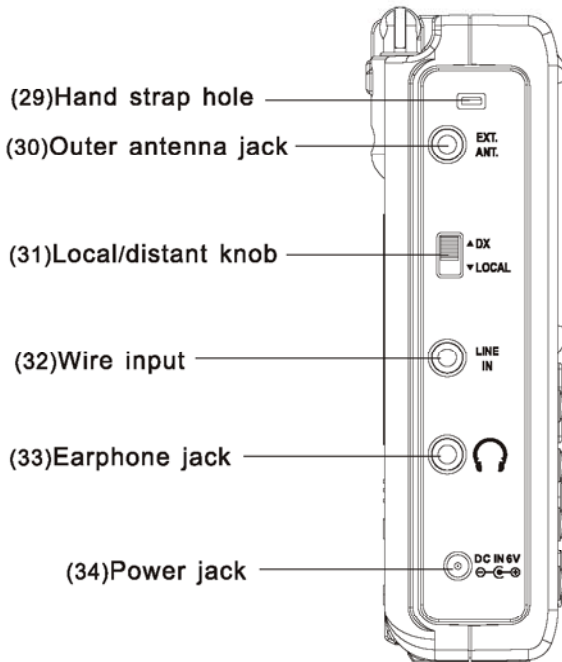
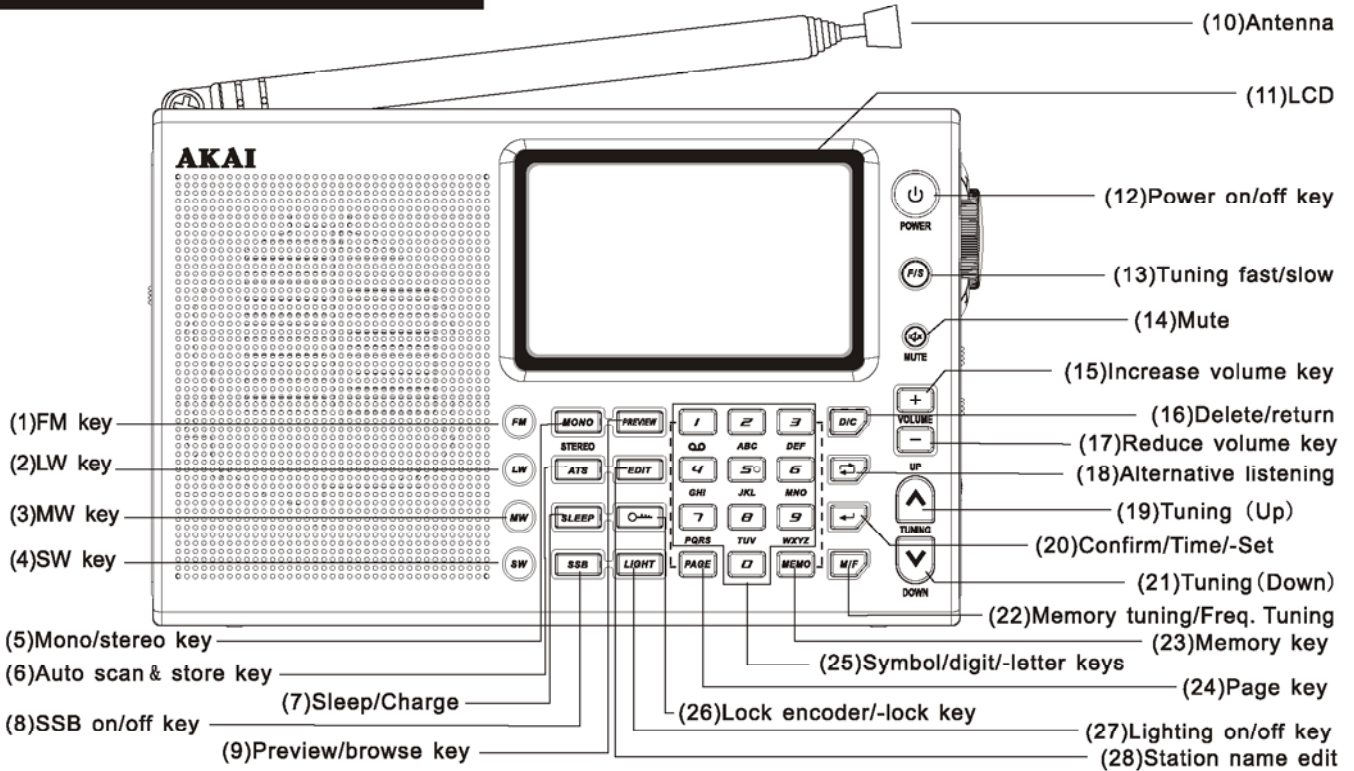
AKAI

Operator's manual

WORLD BAND RECEIVER APW20



Exterior And Functions

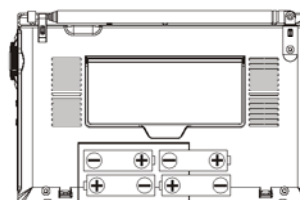


Content

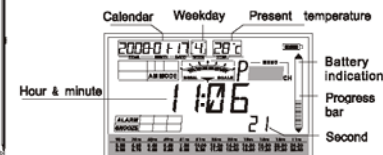
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Turn on/off

Install 4pcs AA battery, LCD (11) display symbols of battery capacity, calendar and time/temp.

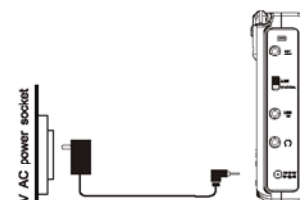


Install battery

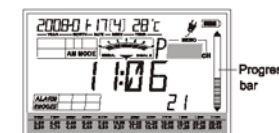


LCD display after installation

Or connect adaptor (not included with radio), LCD display symbols of battery capacity, calendar and time/temp.



Adaptor connection



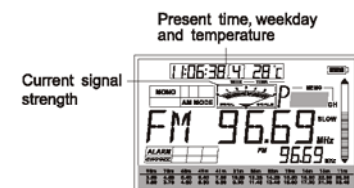
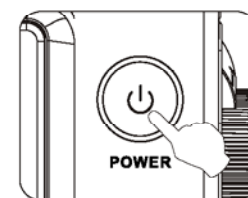
LCD display after connecting adaptor

Tips:

At turn-off mode, install battery or connect adaptor, the progress bar go ahead by space of two bars every 3 seconds. It need 60 seconds to let the progress bar to be full.

Turn on/off

Press shortly power switch(12), the radio is turned on.
Press shortly power switch(12), the radio is turned off.




Shortly press power switch, LCD display as picture show.




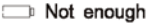
Tip:

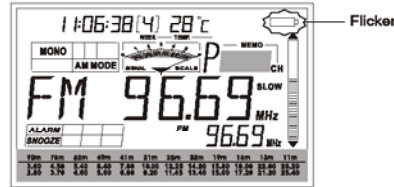
After turn-on, the default broadcast mode is FM band.

Listen to station program


Power indicator

Power capacity is indicated in segments, the power can be judged by “” 4 segments, power indicator at immediate turn-on is accurate.

-  Full power
-  High power
-  Low power
-  Not enough power, auto turn-off after flickering.



Tip:

at small volume or even time display mode, not enough power symbol “” still appear, the battery should be changed at once for prevention of battery leakage. If auto turn-off happen immediately after turn-on, meaning the battery is dead please change battery soon.

After auto turn-off owing to not enough battery power, power indicator increase, the indicator don't represent actual power, please refer to the Indicator at immediate turn-on.

Change battery


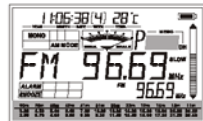

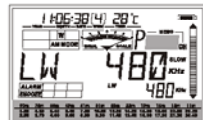

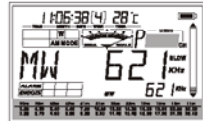

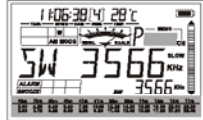
At turn-off mode, change battery at shortest time. Don't change battery at turn-on mode.

Tip:

Don't use old and new battery together.
The radio has intellectual recharge function, don't charge to non-rechargeable battery.
Corrosion, oxidation, battery-leakage and any other gradually acidic defect of this nature will invalidate the guarantee.

Band selection


Listen to station program


	(1) FM:	
	(2) LW:	
	(3) MW:	
	(4) SW:	


Scan station

Manual or auto scan

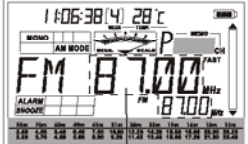
Shortly press tuning up down to change frequency or long press either key, the radio scan stations automatically, one station is broadcasted when it is found and scan is stopped.

(19) 

(21) 



Change frequency

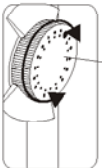


Frequency changing

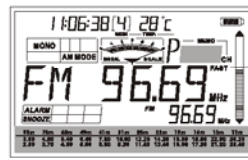
Tip: Auto scan can be stopped by pressing any key

Scan stations by multi-function knob

Turn multi-function knob to change frequency for desired station.
Also by short press tuning (fast/slow) key(13), user can change step speed of station adjustment.



Multi-function knob(35)

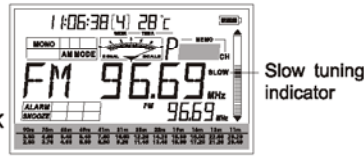


Fast tuning indicator

— 4 —

F/S — Tuning(fast/slow) switching(13)

- Tip: 1. FM:Fast 50K, Slow 10K
 2. MW:Fast 9 or 10K, Slow 1K
 3. SW:Fast 15K, Slow 1K
 4. LW:Fast 9 or 10K

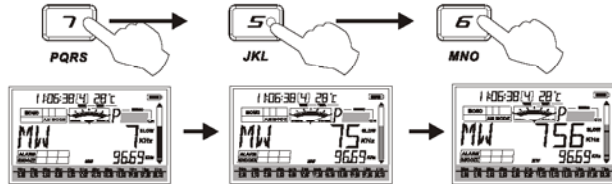


Note:While auto scan and ATS,step is at fast speed progress.

Input station frequency directly

If station frequency is known, firstly select relative band, then input station frequency.

e. g. MW: 756KHz



if input frequency should be deleted, shortly press(Delete/return) key to delete one by one, then input station frequency again, the radio will confirm and store it automatically.

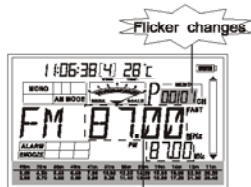
Long press(Delete/return) key to cancel digit input and return to state before first operation.

Tip: if input frequency is beyond frequency range, 'Error' message will be displayed, frequency should be input once again.

Use ATS(auto scan and store) function

ATS — Auto scan and store key(6)

Long press this key and release it until the frequency on LCD start to change, i. e. Auto scan state. The found stations will be stored in memory space at present work page. The radio search for first blank space and start storing station from that position. The station memory database is divided by pages and has 1000 groups, When it's full, the store address display "full" and exit auto scan and store state, otherwise the radio stop at last found frequency and relative address. The user can check ATS result by press tuning (up/down)keys(19) (21) or turn multi-function knob(35).



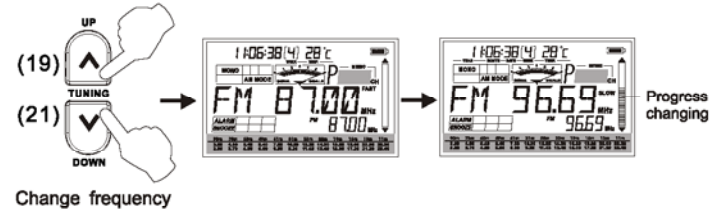
Tip: at ATS operation, the existing address with station already will be skipped.

Shortly press Preview/Browse key(9), the radio scan stations upward. When a strong signal is found, the radio stop scan temporarily and broadcast it for 3 seconds, then continue scan ahead.



Tip:During this process, press any key or scan to the beginning frequency, scan process stop and return to last broadcasted frequency, the radio broadcast it. The step speed is fast.

While searching station, progress bar display simulates current searching progress, user can judge the rough position of tcurrent frequency within the band and facilitate next searching step.

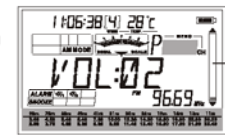


Change frequency

Shortly press any volume key to change volume

- + Increase volume key(15)
- Decrease volume key(17)

Or firstly shortly press any volume key(35), then turn multi-function knob to change volume.



Volume bar
 With one grade volume increase, the volume bar accordingly go upward by on bar

News/music knob(38)
 Adjust high/low tone

Wide/narrow band(37)
 adjusting knob

Mono/stereo switching key(5)
 Adjust sound effect

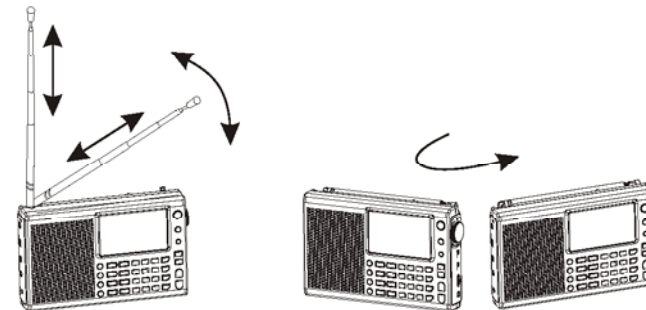


(14) MUTE
 Mute symbol

while listening to radio, shortly press mute key to turn off speaker, sound is stopped. Shortly press mute key again to turn on speaker, sound recover and normal broadcasting.

Tip:the mute is off upon turning on radio.

While listening to FM and SW station, FM SM telescopic antenna(10) should be pull out, through changing direction and length of antenna to obtain best reception.



Listen to FM/SW broadcast

Listen to MW broadcast

Use outer antenna wire

When station signal of FM/SW is weaker, use the outer antenna wire to increase the actual length of antenna for better reception. Pulling the antenna wire out of the antenna wire box and keep it's extended state, insert one end of antenna wire into antenna wire jack, connect another end to windowframe. The SW/FM reception ability of the radio will be improved greatly.



Tip:
under thoudstorm weather, don't use antenna wire.

Note:

TV set, electronic style fluorescent lamp, desktop lamp with silicon control, calculator, motorcar engine, mobile phone charger, motor etc and any signal transmit station strongly disturb MW/SW reception.

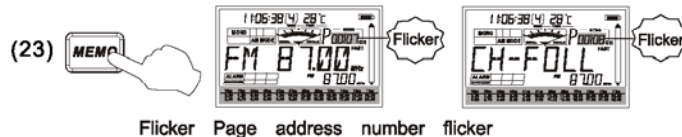
Store and retrieve station

Store and retrieve station

1. Firstly scan the station you want to store.



2. Shortly press MEMO key(23), page address number flicker, then shortly press tuning up/down key(19)(21) or turn 'multi-function' knob(35) to edit and store page address. While editing, if 'CH-FULL' occur on LCD, it means the page address is stored by station, user should select other address to store station.



Flicker Page address number flicker

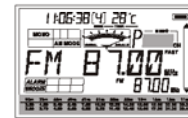
3. Then shortly press MEMO key(23) or Confirm./time-/set key(20) to confirm and exit editing state.



Tip: If don't execute step 3, the radio will return to previous state after 8 seconds.

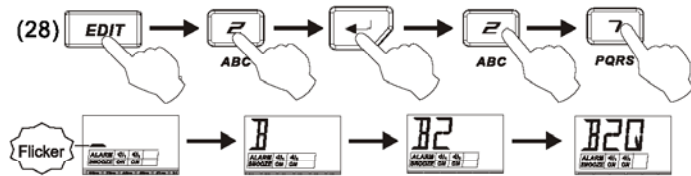
Store and retrieve station name

1. Firstly scan the station you want to store.



2. Shortly press station name edit key(28), then input station name. During input process, the edited number, letter or symbol flickers. If the number, letter or symbol is arranged at second or above position on a key, please shortly press that key continuously until desired number, letter or symbol occur, then go ahead to input next number, letter or symbol. If an input number, letter or symbol should be repeated twice or above, Please shortly press Confirm./time-/set key(20) to confirm after the same number, letter or symbol is input at first time, then input that number, letter or symbol again(Refer to picture).

E. g : Station : B2Q



Tip: If don't execute step 3, the radio will return to previous state after 8 seconds.

Retrieve pre-stored station

1. Shortly press Memory/Freq. Tune key(22), transform between signal channel work state and frequency work state. Memory/Freq.



Frequency state:



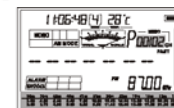
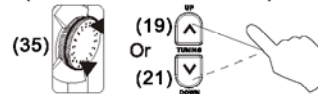
Shortly press this key, page and address appear on midde to top corner at right of LCD. It means radio begin address scanning.

Signal Channel Mode:



Memory address

2. then turn "multi-function" knob(35) or shortly press tuning Up/Down key(19)(21) to change address to retrieve pre-stored station frequency.



Tip: While retrieving station, if symbol "—" occur on LCD, it means no station is saved.

At turn-on state, shortly press Memory/Freq. Tune key(22), then shortly press Pre. /browse key(9), page address will browse pre-stored stations upward automatically, when a page address with station is found, the relative band and frequency unit flicker.



When the desired station is found, please shortly press Pre. /browse key(9) or Confirm. /time-/set key(20) to stop browse process and broadcast it.

While listening to present station, user can change to listen to station previously broadcasted by shortly pressing Alter. Listening key(18), vice versa.

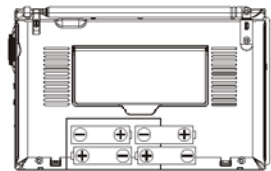


Tip: Each operation time should be less than 2 seconds. Alternative listening only limited to automatic operations, such as alternation between frequencies, station names, pages, memory scan and station browse etc.

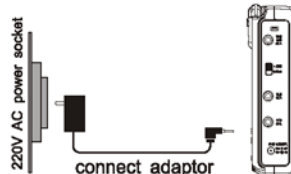
Power charge


1. Install 4 pcs rechargeable nickel-hydrogen batteries.

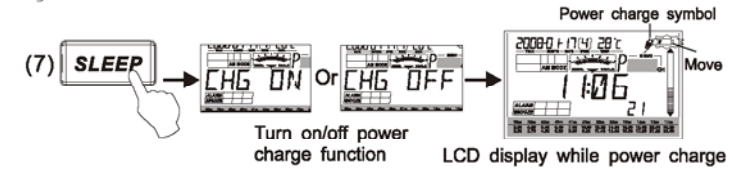
Install batteries correctly:



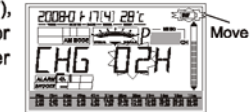
2. Or plug the adaptor(not included with radio)into power jack of radio and connect with 220V AC power source.



At standby state, shortly press Sleep/charge key(7) to turn on/off power charge function. After power charge is turned on, battery power capacity symbol is moving and radio is charged with power charger, LCD display “” symbol, the radio stop power charge after the power is full.



Or after the power charger is connected to radio, user can set time of power charge by long press Sleep/charge key(7), then shortly press tuning Up/Down key(19)(21) or turn multi-function knob(35) to edit time of power charge (meanwhile, the time of power charge flicker on LCD.), The longest time of power charge can beset is 30 hours. Finally shortly press Confirm/time-/set key to confirm and activate the set time of power charge.



Sensitivity choice for local and distant station

Regard to SW and FM band, DXT/Local knob(35) can be adjusted for better reception. Generally, please push this knob at DXT position: If listening to strong signal local stations or reception is disturbed by strong electricity, please push the knob to Local position.

Note: While LXT/Local knob at Local position, the signal attenuation is serious. Though station with strong signal is clear, but many stations with weak signal can't be received.



Set time

Time adjustment and calendar

At standby state, shortly press Confirm/time-/set key(20) to edit time and set calendar. Shortly press tuning Up/Down key(19)(21) or turn multi-function knob(35) to edit and confirm by shortly pressing Confirm/time-/set key(20). During the process, the edited content flicker.

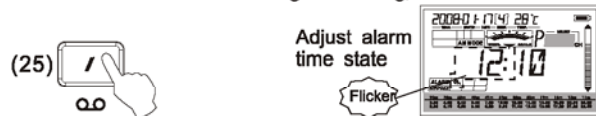


During the edit process, to return to last edited item, please shortly press Delete/return key(16); to give up edit, long press Delete/return key(16), then return to last interface of time and calendar adjustment.

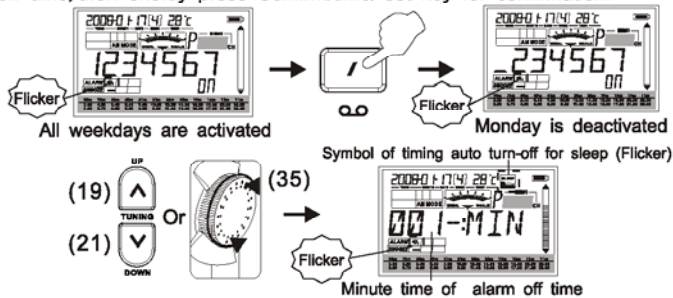


Adjust alarm time

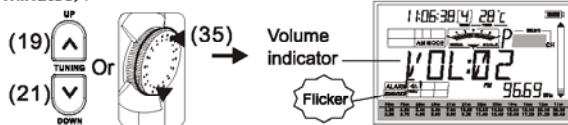
At standby state, long press number 1 key (editing alarm on time 1) until edit item and alarm on time 1 begin flickering, then release it.



To set the weekday of alarm time displayed on LCD, shortly press relative number key to set on/off of the weekday. After finish it, shortly press Confirm/time/-set key to set alarm off time. Shortly press tuning Up/Down keys(19)(21) or turn multi-function knob(35) to adjust minute time of alarm off time, then shortly press Confirm/time/-set key for confirmation.



After set and confirm minute time of alarm off time, LCD display volume indicator, set volume of alarm on by shortly pressing tuning Up/Down key (19)(21) or turning multi-function knob(35). (Alarm time can be set within 1-255 minutes).



Following above steps, user can set snooze function. Shortly press Confirm/time/-set key(20) again to set snooze function.

Shortly press tuning Up/Down key(19)(21) or turn "multi-function" knob(35) to make the relative selection:

- (1) Select ON, shortly press Confirm/time/-set key(20) to confirm and exit.
- (2) Or select OFF, shortly press Confirm/time/-set key(20) to confirm and exit

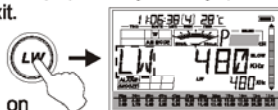


LCD display frequency of station listened currently, user can set the received band after timing turn-on by shortly pressing FM, LW, MW and SW keys(1)(2)(3)(4), then user can set the received frequency after timing turn-on by shortly pressing tuning Up/Down key(19)(21), inputting the station frequency directly or turning multi-function knob(35), finally shortly press Confirm/time/-set key(20) to confirm and exit.

Long press number 2 key(25) to set alarm on time 2, operation method is same as above.

Long press number 3 key(25) to set alarm on time 3, operation method is same as above.

Tip: If stop temporarily during edit process, the radio will return to previous state after 8 seconds.



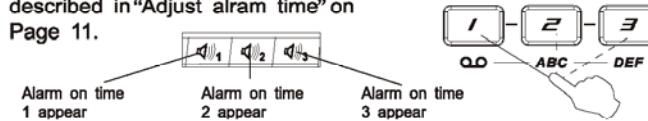
While setting MW mode, if need to return to last edited item, please shortly press Delete/return key(16).

While setting MW mode, if need to give up edit of time and calendar, please long press Delete/return key(16).

Use alarm function

Use alarm function to turn on radio

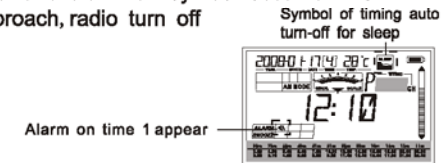
At turn-off state, long press number 1, 2 or 3 key (alarm time clock 1, 2 or 3) to set this function. (Operation method same as what described in "Adjust alarm time" on Page 11.



When alarm time approach, radio turn on automatically and broadcast program from station selected before last turn-off.

Meanwhile, turn-off symbol and alarm on symbol occur on LCD.

When alarm off time approach, radio turn off automatically.



At turn-off state, shortly press number key 1, 2 or 3 to let alarm symbol appear or disappear.

Snooze function

1. Use alarm function to turn on radio



2. Shortly press sleep/charge key(7), the radio will be stopped temporarily. The snooze function will be activated.



The radio turn on again after 10 minutes, if don't let radio turn on again, please shortly press Power on/off key to exit snooze function.



Tip: With shortly press any key (except Power on/off key) each time, the snooze time will be extended by 10 minutes.

Night light usage

Night light with intelligent and manual modes for using in night and dark places
For details, please refer to "Set lighting" on page 19 to set).
Intelligent Mode:

shortly press Light on/off key(27), the light on left of LCD will be on(white color) for 10 seconds. If any key is pressed within this 10 seconds, the lighting time should be extended until 10 seconds after last pressing key.



Manual Mode:

Shortly press Light on/off key(27), the night light will be on for longer time until the light on/off key is pressed again.

Note: To save battery power, don't use night light too long. The night light can't be on at low battery voltage, then the battery should be changed timely.

If the night light is used for long time, the battery will be consumed quickly, when the inside voltage is not enough, the night light will be on until the radio is turned off.

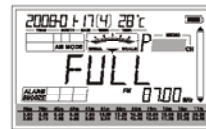


Long backlight indicating return to current picture in 3 seconds

Change storage page

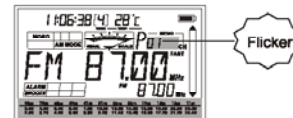
The radio can store up to 1000 station frequencies on 10 separate memory pages(10-9), 100 station frequencies can be stored on each page. (Memory addresses from 00 to 99).

When word "FULL" appear on LCD, it means the memory address on that page are all occupied, please continue store address on other pages.



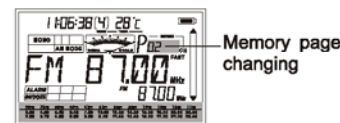
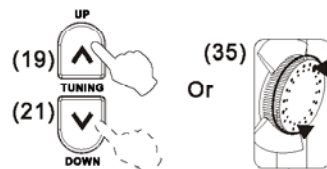
Tip: To change present memory page number, please do as "Set page(No.)" on page 17.

Shortly press Page key(24) to enter page change state.



The present page number begin to flicker.

Shortly press Tuning up/down key(19)(21), or turn "multi-function" knob(35) to select memory page, shortly press Confirm/time/-set key(20) to confirm, then go ahead to select other memory page.



Change page

Delete stored stations

1. To select out the address of station frequency that should be deleted, refer to Retrieve pre-stored station on page 8 .

2. Long press Delete/return key(16), LCD display 'DEL' letters, meanwhile the relative address flickers, the user can change the address by turning 'multi-function' knob(35) or shortly pressing Tuning Up/Down key(19)(21), then shortly press Confirm/time/-set key(20) to delete the frequency stored at present address.

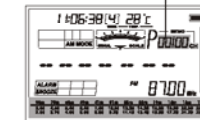
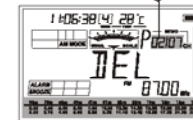


Note: if don't execute delete action within 8 seconds, the radio will exit delete

3. To delete all frequencies stored in one page, long press Delete/return key(16), LCD display 'DEL' letters and present page flickers, shortly press Confirm/time/-set key(20) to start delete the frequencies, the process need about 10 minutes with response from LCD and key operation, backlight is on, LCD display '-----' and page number is zero after 10 seconds, it means delete action is finished.

Flicker

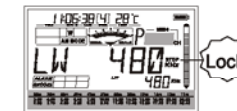
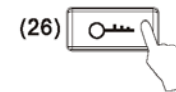
Present page number is zero



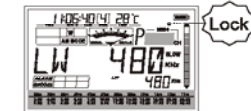
Lock key

Rotatable encoder(35) and lock key
(Can be executed under turn on/off states)

Shortly press Lock encoder/-lock key(26) to lock rotatable encoder (multi-function knob).
Long press Lock encoder/-lock key(26) to lock all keys and rotatable encoder(multi-function knob).



Lock rotatable encoder (multi-function knob)



Lock all keys and rotatable encoder (multi-function knob)

Unlock: When unlock all keys and rotatable encoder(multi-function knob)(35), long press Lock encoder/-lock key(26) until 'LOCK' symbol disappear.

When unlock Rotatable encoder(multi-function knob), shortly press Lock encoder/-lock key(26) until 'STOP' symbol disappear.

Note: When Lock key function is activated, the radio can't be turned on.

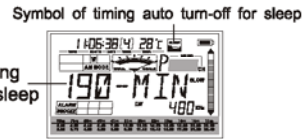
Timing turn-off

Timing turn-off: shortly press Sleep/charge key(7) to activate or deactivate timing turn-off function, when LCD display symbol of timing turn-off, the time of timing turn-off can be changed through turning multi-function knob(35) and tuning up/down key(19)(21) or input of number keys(25), the time range is 1-255 minutes, if time of timing turn-off is changed, after shortly press Sleep/charge key(7) again, the changed time will be kept and radio started to countdown: if time of timing turn-off isn't changed, after shortly press Sleep/charge key again, timing turn-off function is deactivated.

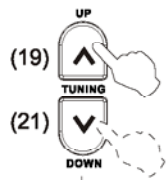
1. At turn-on state, shortly press Sleep/charge key(7), LCD display 'SLEEP' symbol and time of timing turn-off for sleep.



Time of timing turn-off for sleep



2. To change the time of timing turn-off for sleep, shortly press Tuning up/down key(19)(21) or turn multi-function knob(35).



Or



Change time



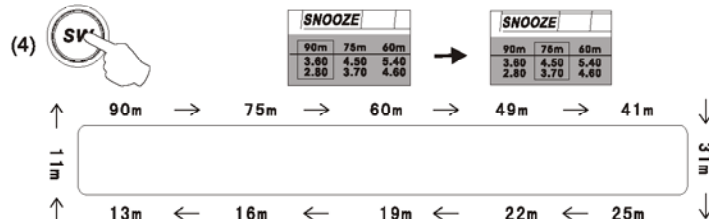
If user stop operation when LCD display '060', radio will turn off automatically 60 minutes after it's turned on.

Next time when timing turn-off for sleep function is activated, the default time of timing turn-off is 60 minutes.

During the listening process after timing turn-off for sleep function is activated, shortly press Sleep/charge key(7) again, LCD display remaining time before timing turn-off; to cancel timing turn-off for sleep function, please shortly press Sleep/charge key(7) continuously until 'SLEEP' symbol disappear.

Meter band indicator and switching

SW stations mainly concentrate within meter band or nearby. To facilitate reception, please use meter band key to change among usual used meter bands within SW band. The radio has 12 meter bands. Please shortly press SW key(4) many times as per following regularity to select desired meter band station.



Wire input and wire output usage

Wire input: select desired band at turn-on state, then connect outer output products (MP3, MP4) with wire input jack(32) of the radio, the user can listen to content coming from output products.

Use SSB

Select desired band at turn-on state, then shortly press SSB on/off key(8) to switch on/off SSB function, finally turn SSB fine tuning knob(39) on the right of radio to adjust sound.



SSB is activated indicator



Special tip: At FM band, SSB function can't be used.

Set system

Set time and calendar

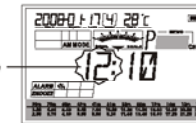
At standby state, shortly press Confirm/time/-set key(20) to enter time and calendar edit state on LCD. The editing item flicker, shortly press Tuning Up/Down keys(19)(21) or turn multi-function knob(35) to edit the item and shortly press Confirm/time/-set key(20) to confirm. After confirmation, LCD display next item for edit. Please repeat before actions. After edit and confirm hour, minute, year, month one by one in order, the system will save them and exit this state.

While editing time and calendar, to return to last edited item, please shortly press Delete/return key(16).

While editing time and calendar, to give up editing, please long press Delete/return key(16) to return to interface before editing.



Item need to be edited flicker

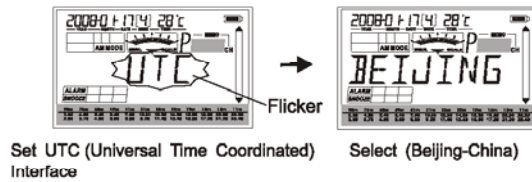


UTC (Universal Time Coordinated) set

At standby state, long press Confirm/time/-set key(20) to enter system set, then long press Confirm/time/-set key(20) to enter UTC set interface.

Through shortly press Tuning Up/Down keys(19)(21) or turn multi-function knob (35) to select present time of country capitals or other places, then shortly press Confirm/time/-set key(20) to confirm and exit the set state. the memoried names of country capitals or other places is in alphabetic order A-Z:

ADELAIDE, AMSTERDAM, ANCHORAGE, ATHENS, AUCKLAND, BANGKOK, BEIJING, BERLIN, BUEOS AIRES CAIRO, CARACAS, CHICAGO, COLMBO, DACCA, DENVER, DUBAI, HONG KONG, HONOLULU, JEDDAH, KARACHI, LONDON, LOS ANGELES MADRID, MEXICO CITY, MOSCOW, NEW DELHI NOUMEA, PARIS, ROME, SAO PAULO SEOUL, SINGAPORE, STOCKLORM, SYDNEY, TAIPEI, TEHRAN, TOKYO, TORONTO, VANCOUVER, VIENNA, ZURICH



Set UTC (Universal Time Coordinated) Interface Select (Beijing-China)

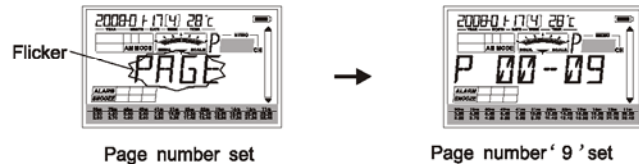
After finish selection of country capital or place, then shortly press Confirm/time/-set key(20)key to confirm and exit set interface, i.e. the present time of LCD will be the present time of the country capital or the place.

While selecting the time of country capital or place, to return to last operation interface, please shortly press Delete/return key(16).
While selecting the name of country capital or place, to give up the set, please long press Delete/return key(16).

Set page (No.)

At standby state long press Confirm/time/-set key(20) to enter system set, meanwhile, LCD display UTC (Universal Time Coordinated) set, then shortly press Tuning down key(21) or turn 'multi-function' knob(35) to select page number, finally press Confirm/time/-set key(20) to confirm.
Shortly press Tuning Up/Down keys(19)(21) or turn multi-function knob(35) to select:

- (1) 9, then shortly press Confirm/time/-set key(20) to confirm and exit this state.
- (2) 24, then shortly press Confirm/time/-set key(20) to confirm and exit this state.
- (3) 49, then shortly press Confirm/time/-set key(20) to confirm and exit this state.



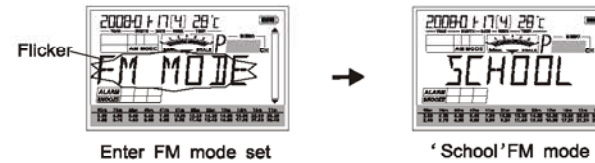
Page number set Page number '9' set

While editing page number, to return to last edited item, please shortly press Delete/return key(16).
While editing page number, to give up edit set, please long press Delete/return key(16) to return to interface before editing.

Set FM mode

At standby state, long press Confirm/time/-set key(20) to enter system set, meanwhile, LCD display UTC (Universal Time Coordinated) set, then shortly press Tuning down key(19) continuously or turn multi-function knob(35) to select FM MODE, finally shortly press Confirm/time/-set key(20) to confirm.
Shortly press Tuning Up/Down keys(19)(21) continuously or turn multi-function knob(35) to select:

- (1) SCHOOL (School FM mode), then shortly press Confirm/time/-set key(20) to confirm and exit, the frequency range is 76-108MHz, fast step is 50K.
- (2) NORMAL (Standard mode), then shortly press Confirm/time/-set key(20) to confirm and exit, the frequency range is 87-108MHz, fast step is 50K.
- (3) JAPAN (Japan mode), then shortly press Confirm/time/-set key(20) to confirm and exit, the frequency range is 76-96MHz, fast step is 50K.
- (4) Euro (Euro mode), then shortly press Confirm/time/-set key(20) to confirm and exit, the frequency range is 87.5-108.5MHz, fast step is 50K.



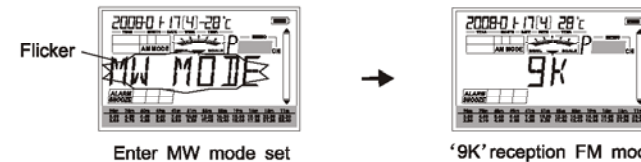
Enter FM mode set 'School' FM mode

While setting FM mode, if need to return to last edited item, please shortly press Delete/return key(16).
While setting FM mode, if need to give up edit set, please long press Delete/return key(16).

Set MW mode

At standby state, long press Confirm/time/-set key(20) to enter system set, meanwhile, LCD display UTC (Universal Time Coordinated) set, then shortly press Tuning down key(19) continuously or turn multi-function knob(35) to select MW MODE, finally shortly press Confirm/time/-set key(20) to confirm.
Shortly press Tuning Up/Down keys(19)(21) continuously or turn multi-function knob(35) to select:

- (1) 9K, then shortly press Confirm/time/-set key(20) to confirm and exit.
- (2) 10K, then shortly press Confirm/time/-set key(20) to confirm and exit.



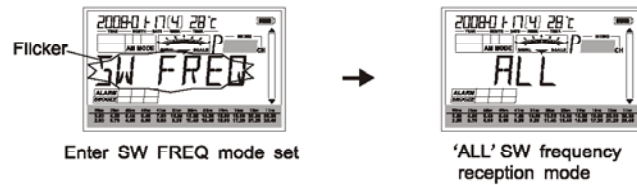
Enter MW mode set '9K' reception FM mode

While setting MW mode, if need to return to last edited item, please shortly press Delete/return key(16).
While setting MW mode, if need to give up edit set, please long press Delete/return key(16).

Set SW FREQ

At standby state, long press Confirm/time/-set key(20) to enter system set, meanwhile, LCD display UTC(Universal Time Coordinated) set, then shortly press Tuning down key(19) continuously or turn multi-function knob(35) to select SW FREQ set mode, finally shortly press Confirm/time/-set key(20) to confirm. Shortly press Tuning Up/Down keys(19)(21) continuously or turn multi-function knob(35) to select:

- (1) All(continuous tuning), then shortly press Confirm/time/-set key(20) to confirm and exit the set mode.
- (2) MT only(Meter band tuning), then shortly press Confirm/time/-set key(20) to confirm and exit the set mode.



While editing SW FREQ set, if need to return to last edited item, please shortly press Delete/return key(16).

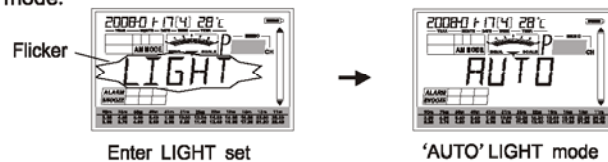
While editing SW FREQ set, if need to give up edit set, please long press Delete/return key(16).

Set lighting

At standby state, long press Confirm/time/-set key(20) to enter system set, meanwhile, LCD display UTC(Universal Time Coordinated) set, then shortly press Tuning down key(19) or turn multi-function knob(35) to select Light set mode, inally shortly press Confirm/time/-set key(20) to confirm.

Shortly press Tuning Up/Down keys(19)(21) or turn multi-function knob(35) to select:

- (1) AUTO, then shortly press Confirm/time/-set key(20) to confirm and exit the set mode.
- (2) MANUAL, then shortly press Confirm/time/-set key(20) to confirm and exit the set mode.



While editing LIGHT set, if need to return to last edited item, please shortly press Delete/return key(16).

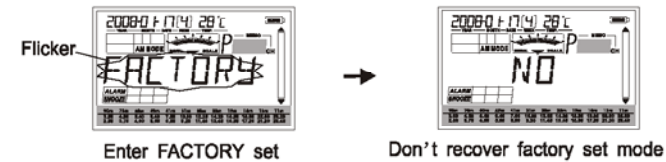
While editing LIGHT set, if need to give up edit set, please long press Delete/return key(16).

Factory setting

At standby state, long press Confirm/time/-set key(20) to enter system set, meanwhile, LCD display UTC(Universal Time Coordinated) set, then shortly press Tuning down key(19) or turn multi-function knob(35) to select FACTORY set mode, finally shortly press Confirm/time/-set key(20) to confirm.

Shortly press Tuning Up/Down keys(19)(21) or turn multi-function knob(35) to select:

- (1) NO, then shortly press Confirm/time/-set key(20) to confirm and exit the set mode.
- (2) YES, then shortly press Confirm/time/-set key(20) to confirm of recovering factory set and exit the set mode

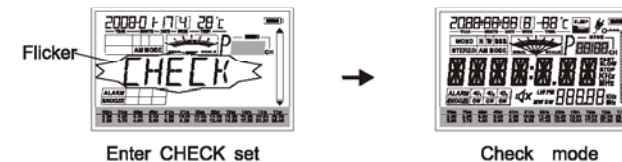


While editing FACTORY set, if need to return to last edited item, please shortly press Delete/return key(16).

While editing FACTORY set, if need to give up edit set, please long press Delete/return key(16).

Check LCD setting

At standby state, long press Confirm/time/-set key(20) to enter system set, meanwhile, LCD display UTC(Universal Time Coordinated) set, then shortly press Tuning down key(19) or turn multi-function knob(35) to select CHECK set mode, finally shortly Press Confirm/time/-set key(20) to confirm.

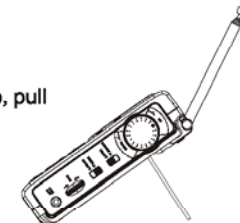


At check mode, to exit this mode, please shortly press Delete/return key(16).

Tip: while doing system set, if the operation is stopped temporarily for 8 seconds, the set done is invalid and LCD exit this state and return to previous one.

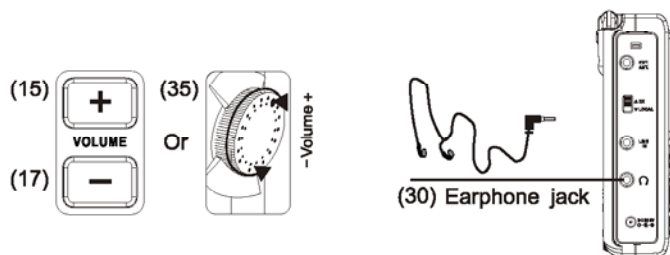
Support frame

Open the support frame(36) at the back of radio, pull out 360 degree rotating telescopic antenna(10) and let it standing vertically, keep suitable space between listener and speaker.



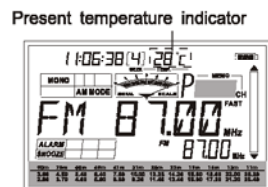
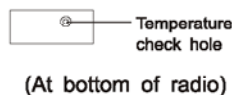
Earphone

The speaker is disconnected automatically while listening to program by earphone. Use built-in speaker for listening, only mono listening effect is available, if stereo effect is desired, please use the earphone comes with radio for free.



Thermometer

User can check present temperature. Temperature check hole is located at the bottom of radio, please don't block it.



Reset key usage

The radio process data by micro chip, if any mistaken operation occur while changing battery or change to use outer power; or the reception is disrupted by strong interference, inside chip change into dead cycle mode and don't receive outer instruction.



1. When no response from short press or long press any key, also no lock symbol 'LOCK', 'STOP' or no any indicator, most possibly the radio is at dead mode, please insert a slim rod into reset hole at bottom to reset.
2. While the listening is normal, other keys are invalid except for power switch(12), night light switch(27), Up/Down scan key(19)(21), possibly the radio is at dead mode, the radio should be reset for normal use.

Tip:

- After use reset key, inside pre-stored memory message won't be deleted, only the radio go into initial mode (FM mode) directly.
- Don't press reset key freely.

Daily maintenance

1. To maintain good function, avoid put or use radio at these places:

- (1) Bathroom or other moisture places
 - (2) Exposure under sun or close to heat equipment
 - (3) Dusty area
2. Avoid dropping or hitting of radio while listening.
3. Any trouble with radio, Please refer to User Manual. Or send it to our company or designated repair centre, don't dismantle it freely.
4. Long time no use of radio, take out battery, avoid battery leakage erode inside components.
5. In winter, LCD screen leakage is possible at -10°Celsius, avoid use it under cold condition.

General know-how

Band M	MHZ
11	25.67-26.10
13	21.45-21.85
16	17.55-17.90
19	15.10-15.60
22	13.60-13.80
25	11.65-12.05
31	9.500-9.900
41	7.100-7.300
49	5.950-6.200
60	4.750-5.060
75	3.900-4.000
90	3.200-3.400
120	2.300-2.490

TV set, fluorescent lamp, desktop lamp with silicon, calculator, motorcar engine, motor etc and any signal transmit station disturb radio reception to certain degree, Please keep some space between them and radio.
Don't use radio under thunderstorm weather

Main tech. Indices

1. Frequency range		
FM :	76.0-108.0	MHZ
LW :	150-522	MHZ
MW :	522-1620	KHZ
SW :	1.711-30.000	MHZ
SW meter band frequency range:		
11m: 25650-26100 khz	22m: 13600-13800 khz	49m: 5950-6200 khz
13m: 21450-21850 khz	25m: 11650-12050 khz	60m: 4750-5060 khz
16m: 17550-17900 khz	31m: 9500-9900 khz	75m: 3900-4000 khz
19m: 15100-15600 khz	40m: 7000-7300 khz	90m: 3200-3400 khz
2. Memorizable station frequency quantity (total 1000pcs)		
3. Limit noise sensitivity		
FM :	more than	10uv
LW :	more than	1.2mv/m
MW :	more than	1mv/m
SW :	more than	20uv
4. Single signal selectivity: ± 5K more than 30 dB		
5. Power DC 6V		
Inside battery:	4 pcs AA battery	
Outer powersource	6 V	
6. Built-in speaker: D 77mm 25Ohm 1Watt		
7. Earphone D3.5mm 32Ohm		
8. Size: around 205(W)x128.7(H)x39.5(T) (mm)		
9. Weight: around 570 G(battery no included)		
10. Standby curren consumption: 500mA		
Operating curren consumption: 150mA		