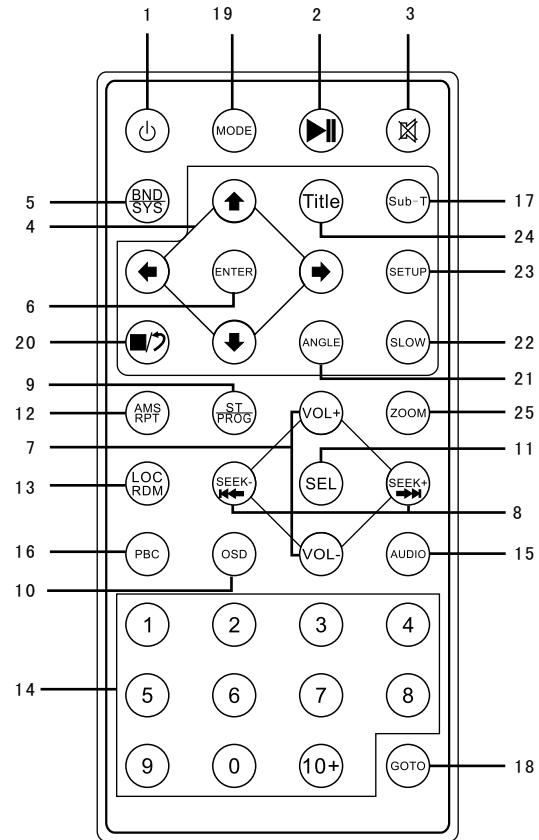


Location of the Remote Control



- 1 Power Switch
- 2 Pause/Play Button
- 3 Mute Button
- 4 Selecting Menu Button
- 5 Band/System Switch
- 6 Enter Button
- 7 Volume Control
- 8 Tuning>Selecting Tracks/F.F/REW
- 9 Program Playing
- 10 On-screen Display
- 11 Setting the sound characteristics
- 12 Repeat Playing

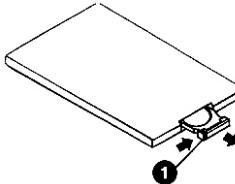
- 13 Random Playing
- 14 Number Button
- 15 Audio-Setting
- 16 PBC Menu
- 17 Subtitle-Setting
- 18 Playing Time-Setting
- 19 Mode Switch
- 20 Stop/Reverse Button
- 21 Angle-Setting
- 22 Slow-motion Play
- 23 Setup Menu
- 24 Menu-Display
- 25 Zoom-Setting

Remote Control Operation

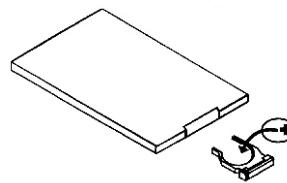
Replacing the Battery

★ When the range of the operation of the card remote control becomes short or no function while operating. Replace the battery with a new button cell. Make sure the battery polarity before replace.

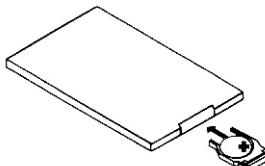
1. Pull out the Battery Holder while pressing the Stopper①.



2. Put the button-type battery (+) mark upward into the Battery Holder.



3. Insert the Battery Holder into the Remote Control.



★ Note: some models are not equipped with remote control. You should ignore the contents about remote control.

★ Power Button

---Press 1 (①) button to turn ON/OFF the power.

★ Pause/Play Button

---Press 2 (②) button to suspend the playback of CD, MP3, VCD, DVD. Press it again to return to normal playback mode.

★ Mute Button

---Press 3 (③) button to cut down the sound output, press it once more to resume the previous sound level.

★ Menu selector

---Press 4 (→/←/↑/↓) to select your desired menu, then press 6 (ENTER) or press the play button 2 (②) to confirm.

★ Note: This function works in main menu mode only. refer to page 13.

★ Band/System Switch

---During radio mode, press 5 (BAND / SYS) to switch receiving band.

---During the player mode, press 5 (BAND/SYS) button to switch to AUTO, PAL, or NTSC system.

Remote Control Operation

★ Volume Increasing/Decreasing

---Press **7** (VOL+ or VOL-) button to increase or decrease the volume level respectively.

★ Tuning /Selecting Tracks

/Fast Rewind/Forward

---During radio mode, continuously press **8** (-◀ or ▶+) button to manual search a station downward or upward respectively. If press and hold **8** (-◀ or ▶+) button for more than 3 seconds, the radio will automatically search a station downward or upward respectively until it finds a station.

---During the playing mode, press and hold **8** (-◀ or ▶+) button to fast rewind or fast forward for you to reach your desired track quickly. When discontinuously press **8** (-◀ or ▶+) button, you can select your desired portion downward or upward respectively.

★ Program Playing

---During CD, VCD mode, you can set the program order to play, you can follow the steps as below: Firstly press **16** (PBC) button, and then press **9** (PGM) button, and the television displays programming **P00:00**. You can set the program order to play them by using **14** (0~10+) button, and then press **2** (▶||) to play.

Note: program doesn't function in playing Mp3.

★ On-Screen Display

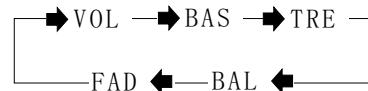
---During CD, VCD, DVD mode, press **10** (OSD) button. The display shows single track elapsed time, single track left time or entire disc left time, and the track being played and the amount of the whole disc.

Note: During MP3 mode, only single track elapsed time is displayed in OSD mode.

★ VOL/BAS/TRE/BAL/FAD

selector

---Repeatedly press **11** (SEL) button to select the desired mode in the following order:



Note: After selecting your desired mode, you can adjust the current mode being displayed by using (VOL+ or VOL-) buttons. When P-EQ mode is activated. Press SEL button to select the modes. And Bass/Treble mode are invalid. (Shown as below)



★ Repeat Playing/AMS

---During DVD mode, firstly press **12** (Ams/RPT) to repeat the current track being played. Press it again to repeat playing all the tracks, the third press it to cancel the repeating functional. (LCD will display different designs)

Remote Control Operation

★ Left /Right/Stereo Selector

---During the playing mode, continuously press **15** (Audio) can change the sound to left/right speaker or stereo mode.

Note: There are 5 grades surrounding effect in surround mode. During **VCD** mode, you can see the different pictures indicating different effects on the television.

★ Playing PBC (menu)

---During VCD mode only, when pressing **16** (PBC) button at the first time, **PBC** playback starts and the **menu of entire disc** appears on the television. And then you can select your favorite track by using number button **14** (0~10+). When a track is playing, you can press **20** (STOP/RETURN) button to return to the menu if you want to stop to select other tracks. To cancel PBC playing, press **6** (PBC) button again.

★ Subtitle Selector

---During DVD mode, press **17** (SUB-T) button to switch the menu to Chinese or English.

Note: when button 10+ is first pressed, it works as 10+, it works as 20+ when pressed at the second time, the third time...30+,...and the like. In PBC playback mode, Number Button is not functional.

Remote Control Operation

★ Setting CDs Playback time

---In VCD, CD mode, press **18 (GOTO)** key and set the time when you begin to play the track, and the television will display the time--:--. Enter your desired time by pressing number button **14 (0~10+)**. For example, enter: **25:00** it will automatically start playing the track from point of the twenty-fifth minutes in the disc.

---In DVD playing mode, press **18 (GOTO)** key once and input a desired track number, then press **2 (▶||)**key to play the DVD from the position corresponding to the track number selected.

---In DVD playing mode, press **18 (GOTO)** key twice and input a desired time to play the DVD from the position corresponding to the time selected. For example, press **18 (GOTO)** key twice and the television will display the time --:--:-- Enter your desired time by pressing number button **14 (0~10+)**. Then press **2 (▶||)**button, it will automatically start playing the track from point of your desired time in the disc.

Note: No time play functional for Mp3.

★ Mode Switch

---Press **19 (MODE)** button to switch to radio mode or playback mode.

★ Stop the Playback

---In DVD mode, press **20 (■/▽)**button to suspend the playback and “ptss play to continue” show on TV, press it again to stop the playback.

Note: In VCD, MP3 and CD, press this key once to stop.

★ MULT-ANGLE KEY

---In DVD playing mode, press **21 (ANGLE)** key, you can watch the DVD content from different angle.

Note: In VCD, MP3 and CD, it is not the function.

★ SLOW REVERSE/SLOW ADVANCE KEY

---In DVD playing mode, press **22 (SLOW)** key once for 2x slow advance, twice for 4x slow advance, third for 8x slow advance, fourthly for 2x slow reverse, fifthly for 4x slow reverse, sixth for 8x slow reverse, seventh for normal player.

---In VCD playing mode, press **22 (SLOW)** key once for 1x slow advance, twice for 2x slow advance. Third for 3x slow advance, press **2 (▶||)** key to cancel slow reverse /Slow advance function.

Note: In MP3 and CD, it is not the function.

SYSTEM SETTING

★ TITLE KEY

---In DVD, VCD playing mode, press **24 (TITLE)**key to show all tracks' title on TV screen. Then press **14 (0~10+)** key or press **4 (→/←/↑/↓)**key to choose your desired track number and press **6 (ENTER)** key or **2 (▶||)**key to start.

Note:1. No title display in MP3, CD mode

2. For choose a desired language to press title key.

★ ZOOM KEY

---In DVD, VCD playing mode, press **25 (ZOOM)**key once for 1.5x Mode, twice for 2x Mode, third time for 3x Mode, fourthly time for cancel Mode.

Note: NO ZOOM function CD/MP3 playing mode.

★ SYSTEM SETTING

General Steps of Setup Menu

a)Press the Setup button. The main setup menu appears.

▪When the main menu displayed, the DVD system will automatically pause.



b)Press the Left and Right arrow buttons to highlight the icon of the desired page, then press the Down or Right arrow button to activate that page. For example, if you want to setup the video page, press Right to highlight the video icon. The video page will be displayed on the screen.



c)Press the Down arrow button to highlight the desired option. Press Enter or press Right to select. The choices of that option appear on the right. For example, press the Down arrow button to highlight the BRIGHTNESS option, then press Enter to select. The Brightness choices appear on the right.



d)Press the Arrow buttons to highlight the Exit Setup option, then press Enter or Setup again to exit Setup Menu.

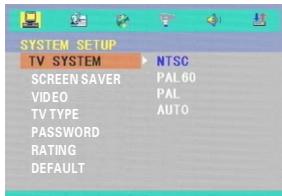
Notes:
• When setup, the pressing of the following buttons will turn off the setup menu, and the choices that have been changed will be saved: P, P+, Subtitle, P, P+, Vol, P, P+, PBC, Title, Return, Play, Stop, Repeat, Pause, Step, Next, Prev, S, T, S, R, Zoom, Preview, Goto, Program, Repeat, A-B, Angle, language, Soundtrack, 3D, Record, Display, Mute, Setup.

SYSTEM SETTING

★ TV SYSTEM

According to the Color System of the TV, you can choose the TV System.

- AUTO: Choose this setting if your DVD player is connected to a multi-system TV.
- NTSC: Choose this setting if your DVD player is connected to a NTSC TV.
- PAL: Choose this setting if your DVD player is connected to a PAL TV.
- PAL60: Choose this setting if your DVD player is connected to a PAL60 TV. The default setting is NTSC.



★ TV PICTURES ASPECT RATIO

16 : 9 (Wide Screen): Choose this setting if your DVD player is connected to a wide screen TV. If you choose this setting and you don't have a wide screen TV, the images on the screen may appear distorted due to vertical compression.

4 : 3 LB (Letter Box): Choosing this setting if your DVD player is connected to a normal ratio TV. You'll see the movies in their original aspect ratio (height-to-width ratio). You'll see the entire frame of the movie, but it will take up a smaller portion of the screen vertically. The movie might appear with black bars at the top and bottom of the screen.

4 : 3 PS (Pan & Scan): Choosing this setting if your DVD player is connected to a normal ratio TV. You can fill the movie to the entire screen of your TV. This might mean that parts of the picture (the left and right edges) won't be seen.

Notes:

The image display ratio is related to the recorded disc format. Some disc can not display images in the aspect ratio you choose.

If you play a disc recorded in 4:3 format on a wide screen TV, black bars will appear on the left and right side of the screen. You must adjust the screen setting depending on the type of the television you have.



SYSTEM SETTING

★ PASSWORD

The Password function works with the Rating setting also found in the System Settings. In order to change the Rating setting, you must first "unlock" the system using a password.

When the Password item is highlighted, you enter the password. The factory default setting for the Password is 0000. Once you have entered this, and pressed ENTER to confirm, you can change it to a different four-digit password number. Please note that in some installations, the password is a SIX digit number. In that case, the password is 000000.



★ RATING

The Rating feature is a rating limit system, like movie ratings. It works with DVD discs that have been assigned a rating. This helps you control the types of DVDs that your family watches.

- There are 8 rating options: KID SAFE, G, PG, PG13, PG-R, R, NC-17, ADULT.

If you want to change the rating. Please input correct password first.

- The default setting is ADULT.

Notes:

If the password option is locked, you cannot set the ratings limit; the rating limit does not work when the password option unlocked.



★ DEFAULT

Choose this option to resume all the setup options to default settings.



★ LAST POSITION MEMORY FEATURE

This unit is able to remember at what point in a program you were watching when the player was turned off. When you next turn the player on and insert the same disc, the player will start playback at that point, when you press the RESUME button on the remote control.

★ LAST SETUP

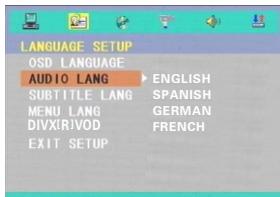
The language setup options are illustrated below:

Highlight the OSD LANGUAGE option, and press the Arrow buttons to choose the OSD language you prefer. Press Enter to confirm, and it will display OSD in that language; There are 8 optional OSD languages: Chinese, English, Japan, French, Spanish, Portuguese, German and Latin.

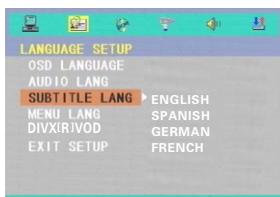


SYSTEM SETTING

Highlight the AUDIO LANG option, and press the Arrow buttons to choose the audio language you prefer. Press Enter to confirm. If the disc you are playing has that language available, it will provide the sound track in that language; There are 8 optional audio languages: Chinese, English, Japan, French, Spanish, Portuguese, German and Latin.



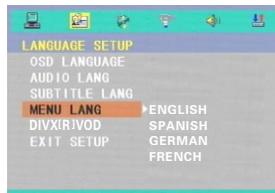
Highlight the SUBTITLE LANG option, and press the Arrow buttons to choose the subtitle language you prefer. Press Enter to confirm. If the disc you are playing has that language available, it will displays subtitles in that language; There are 8 optional subtitle languages: Chinese, English, Japan, French, Spanish, Portuguese, German, and Off.



Highlight the MENU LANG option, and press the Arrow buttons to choose the menu language you prefer. Press Enter to confirm. If the disc you are playing has that language available, it will displays menu in that language; There are 8 optional menu languages: Chinese, English, Japan, French, Spanish, Portuguese, German, and Off.

Notes:
If your preferred language isn't available, the disc's default language will be used.

The default language of your DVD player is Chinese.



★ AUDIO SETUP

AUDIO SETUP



★ VIDEO SETUP

The video setup options are illustrated below:



BRIGHTNESS

Use the Up and Down arrow button to move the scroll and adjust the Brightness.



CONTRAST

Use the Up and Down arrow button to move the scroll and adjust the Contrast.



SYSTEM SETTING

HUE

Use the Up and Down arrow button to move the scroll and adjust the Hue.



SATURATION

Use the Up and Down arrow button to move the scroll and adjust the Saturation.



★ DIGITAL SETUP

The video setup options are illustrated below:



OP MODE

LINE OUT: Choose this setting to line out the input signal. It will be more suitable for playing in the night time, for the output volume is low.
RF REMOD: It will be more suitable to choose this setting for playing in the day time, for the output volume is high.



DYNAMIC RANGE: When "LINE OUT" is selected, choose this setting to adjust the line out ratio and get different effect. If set to FULL, the audio signal peak value will be the minimum. If set to OFF, signal peak value will be the maximum.

NOTE:
This option will be validated when the DOLBYNMX OFF.



DUAL MONO (LEFT + RIGHT)

Choose this option to setup the L and R mono output mode; There are four modes in this option: STEREO, MONO L, MONO R, and MIX MONO.

REFERENCE:

- To protect your DVD player, the time between two consecutive Power button operations must be more than 30 seconds.
- If you are not planning to use the player for an extended period of time, please unplay it from the power source.
- The player may not be compatible with some encrypted discs.
- If the player stops playback by accident, please power it on again.



TV AND BLUETOOTH

NOTE: DVD WITH TV TUNER MODEL

1. Push [MODE] again, the unit will turn to "TV" state, then push [SETUP], and choose AUTO SEARCH, push [RIGHT] of direction key, and choose ON by direction key. then push [RIGHT] This time, the unit will search and remember TV program automatically.
2. You can choose TV program by [UP] and [DOWN] of direction key.
3. You can choose TV program by number key. For example, if you want to choose 18CH, please push [10] then push [8].
4. You can tune finely by [LEFT] and [RIGHT] of direction key.

The Operation manual spec without DATA protocol.

Status	Operation	Function	LCD Display	LED Status
Standby	1. NO Operation 2. short press KEY	Connecting mobile		Flash every 5s Flash every 1s
Connected (Handsfree)	1. double click	Last Number redial		Light on
Calling	1. short press	Hangup		Light on
Ring	1. short press 2. double click	Accept Reject	Number	Light on
Active Call	1. short Press 2. Hold 2s	Hangup Voice transfer		Light on
Active Call (Third party conversion)	NO action within 8s 1. short press 2. double click 3. Hold 2s	Hangup accept Reject Hold line	Number	Light on

Remark

- A. Please be sure that the distance between mobile and car audio is less 2 meters;
- B. Active the mobile bluetooth function and operate it according Mobile Manual;
- C. Mobile will search device "XXXXX", and choice "XXXXX";
- D. Please input pairing code "8888" and confirm. The pairing procedure will be completed.
- E. Please note: some kind mobile will disconnect when voice transfer to mobile
- F. The third Party conversion need network support.
- G. The Max Mobile can be stored is 4.

TV AND BLUETOOTH

Product Description

The unit provides a fully compliant Bluetooth system for data and Voice communications, UART and support full data rate up to 723.2K/57.6Kbps. Voice Interface supported PCM protocol

The Unit and device firmware is fully compliant with the Bluetooth specification v2.0 Perfect Echo cancellation and noise suppression
This Unit is mainly used in CAR AUDIO system.

Specifications

Operating frequency band is 2.4 GHZ-2.48GHZ unlicensed ISM band

Bluetooth specification is V1.1&V1.2&V2.0

Output power class is 2

Host interface is I2C or UART

Low power mode support has park, snirr, hold and deep sleep.

Voice interface is PCM.

Remark: specifications are subject to change without prior notice.

Electrical characteristics

Absolute maximum rating	min	max
Storage temperature	-40°C	+80°C
Recommended operating conditions	min	max
Operating temperature range	-25°C	+75°C
Supply voltage (VDD)	-2.7V	+5V

RF Characteristics

Receiver	Units	Min	Typ	Max	Bluetooth Spec
Sensitivity at 0.1%BER	dBm	-	-80		-70
Maximum Receiver Signal	dBm	-	-		-20
C/I Co-Channel	dB	-	-		11
Adjacent Channel Selectivity C/I 1MHz	dB	-	-		0
2ndAdjacent Channel Selectivity C/I 12MHz	dB	-	-		-30
3rdAdjacent Channel Selectivity C/I 3MHz	dB	-	-		-40
Image Rejection C/I	dB	-	-		-9

VDD=5V; f=2.45GHz; T=20C

Transmitter	Units	Min	Typ	Max	Bluetooth Spec
RF Output Power	dBm	-	3	-	-6 to +4
RF Power Control Range	dBm	-	NA	-	>16
RF Power Range Control Resolution	dB	-	-	-	-
20db Bandwidth for Modulated Carrier	KHz	-	850	-	<1000
2ndAdjacent Channel Power (+/- C/2MHz)	dBc	-	-	-	-20
3rdAdjacent Channel Power (+/- C/2MHz)	dBc	-	-	-	-40

VDD=5V; f=2.45GHz; T=20C

TV AND BLUETOOTH

The operation:

Press PHONE key and receive the phone, double click Phone key and reject the phone.

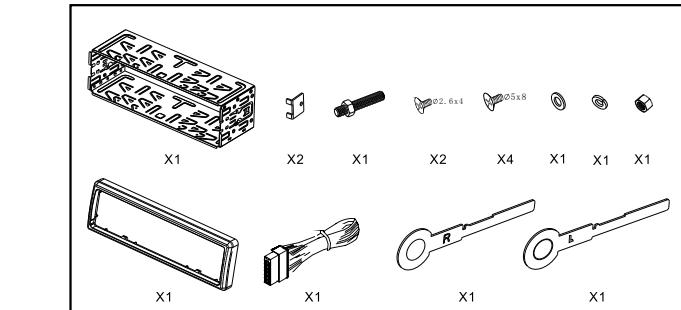
Remark:

- a. please be sure that the distance between mobile and car audio is less 2 meters
- b. active the mobile Bluetooth function and operate it according mobile manual
- c. mobile input search device xxxx and choice xxxx
- d. please input pairing code and confirm. the pairing procedure will be completed
- e. please note: some kind mobile, don't support voice dialing function
- f. please note: some kind mobile will disconnect when voice transfer to mobile
- g. the third party conversion need network support
- h. the MAX mobile can be stored is 4

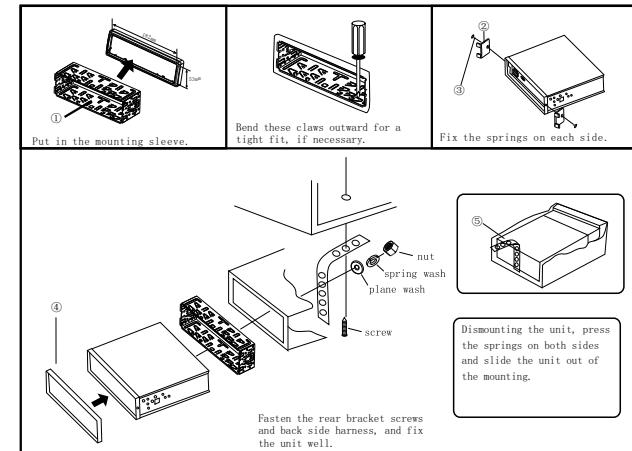
if want be more function and display, please use thd data communication mode.

Installation

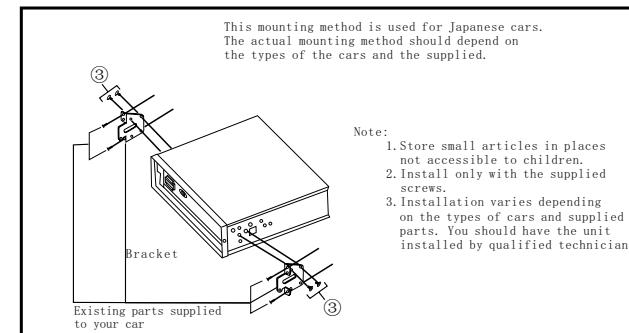
Parts list



Mounting Example 1



Mounting Example 2



Specifications

General

Power Requirements.....	14.4V DC
Load Impedance.....	4 Ω
Max. Power Output.....	45Wx4
Tone Controls.....	±8dB (Bass 100Hz, Treble 10KHz)
Dimensions.....	Approx. 192x178x50mm (d x w x h)
Mounting Dimensions.....	Approx. 169x182x53mm (d x w x h)
Weight.....	Approx. 1.75kg

DVD Deck Section

Discs Played.....	DVD, VCD 1.0/1.1/2.0/3.0, MP3, CD, CD-R, CD-RW, PICTURE-CD
Video System.....	AUTO/PAL/NTSC
Mounting Angle.....	0 to +/−30°

Video Section

Video System.....	4:3 Letter Box and 4:3 Pan Scan
Video Output level.....	1.0Vp-p 75 ohms
Horizontal Resolution.....	500

Audio Section

Maximum Output level.....	2Vrms (+/-3dB)
Frequency Response.....	20 to 20 KHz
Signal-to-noise Ratio.....	85 dB
Separation.....	80 dB

AM Tuner Section

Frequency Range.....	522-1620 (Europe/China), 530-1710 (U. S. A)
IF Range.....	450kHz
Usable Sensitivity (-20dB)....	25dB

FM Tuner Section

Tuning Range.....	87.5-108 (Europe/China), 87.5-107.9 (U. S. A)
IF Range.....	10.7MHz
Usable Sensitivity (-30dB)....	15dB
Signal-to- noise Ratio.....	60dB
Stereo Separation.....	30dB(1KHz)
Frequency Response.....	30-15000Hz

Simple Troubleshooting Guide

Problem	Cause/Solution
No power	★ Check and make sure whether the fuse is blown, replace with the proper value if necessary.
Some errors occur in the LCD or no function when pressing the button.	★ Press the RESET button.
Unable to receive stations.	★ Check and make sure whether the antenna is inserted or the antenna is properly connected. if so, insert the antenna or connect it properly.
Poor effect on receiving a station.	★ Antenna may not be the proper length. Make sure the antenna is fully extended or broken: if broken. Replace the antenna with a new one. ★ The broadcasting signal is too weak. ★ The antenna is poorly grounded, check and make sure the antenna is properly grounded at its mounting location.
ACDs cannot be loaded.	★ A CDs is loaded in the mechanism.
The stereo indicator “  ” is flashing.	★ Tune in the frequency accurately, ★ The broadcasting signal is too weak. (Set to the MONO mode)
The picture noise appears.	★ Improper setting of the color system. Set the color system to “PAL” or “NTSC”, according to the connected television. ★ The CDs is dirty or damaged.

★ Note: If any of the problem persist after check list had been made, consult your nearest service dealer.
Never attempt to disassemble your unit by yourself.

★ Note: Due to continuous product improvement, specifications and design are subject to change without notice.