

User's Manual

BV7975

**IN-DASH DVD/MP3/CD RECEIVER
WITH 3.6-INCH WIDESCREEN TFT MONITOR
WITH USB AND SD MEMORY CARD PORTS
AND FRONT PANEL AUX INPUT**



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tech support: www.bosssaudio.com/support

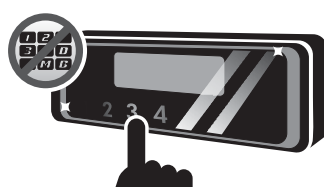
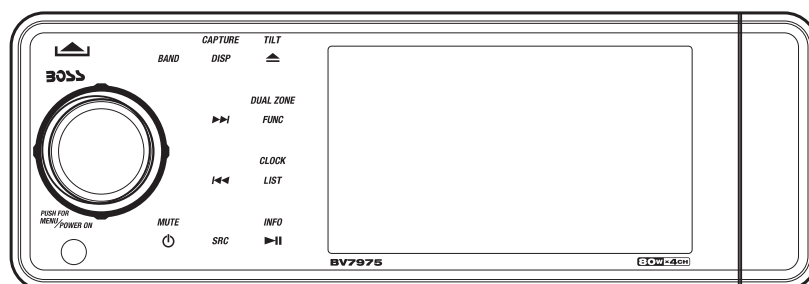


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BUTTON LESS TOUCH PAD PANEL

This radio is equipped with the most advanced "TOUCH SENSE PANEL", so that it is easy and convenient to use while driving.

TIPS

- **Here are some tips to show you how easy it is to use this touch sense panel:**

- Using a very light touch on the radio panel will activate that feature. You will not need to "PRESS" hard on the panel to make this radio change features.
- Some of the buttons that have dual functions, will need to be "TOUCHED" from 2 to 3 seconds to activate the second level function
- The best area to "TOUCH" on the panel to make it activate is the illuminated or lighted area. For example, just touch the illuminated   to play the next track or return to the previous track.

Warnings

► When Driving

Keep the volume level low enough to be aware of the road and traffic conditions.

▲ CAUTION

In some countries, it's unlawful to operate a vehicle while video is displayed in the driver's viewing area. Please always switch the unit's display to "Font Type Display" mode by pressing the DISP button while driving.

For safety reason, the driver should only enjoy / watch the video while the car is in parking mode.

► When Car Washing

Do not expose the product to water or excessive moisture. This could cause electrical shorts, fire or other damage.

▲ CAUTION

In order to avoid any accident, the driver must not watch video while driving. This unit is designed to not allow watching video while driving. Park your car in a safe place and engage the 'PARKING BRAKE WIRE' before watching video.

► When Parked

Parking in direct sunlight can produce very high temperatures inside your vehicle. Give the interior a chance to cool down before starting playback.

► Use the Proper Power Supply

This product is designed to operate with a 12 volt DC, negative ground battery system (the regular system in a North American car).

► Protect the Disc Mechanism

Avoid inserting any foreign objects into the slot of this player. Failure to follow this may cause malfunction or permanent damage due to the precise mechanism of this unit.

▲ CAUTION

THIS MOBILE MultiMedia PLAYER IS A CLASS I LASER PRODUCT. THIS UNIT USES A VISIBLE/INVISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION IF EXPOSED DIRECTLY. BE SURE TO OPERATE THE MOBILE MultiMedia PLAYER CORRECTLY AS INSTRUCTED.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OR PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR BY YOURSELF PLEASE REFER SERVICING TO A QUALIFIED TECHNICIAN.

NOTE:

1. TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.
2. TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.
3. THIS DEVICE IS INTENDED FOR CONTINUOUS OPERATION.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. Patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Installation

⚠ INSTALLATION CAUTION

1. Before finally installing the unit, connect the wiring temporarily and make sure it is all connected properly and the unit works properly.
2. Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause mal functions.
3. Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
4. Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop.
5. If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance.
6. Avoid installing the unit where it would be subject to high temperature, such as from direct sunlight, or from hot air, from heater, or where it would be subject to dust dirt or excessive vibration.
7. Be sure to remove the front panel before installing the unit.

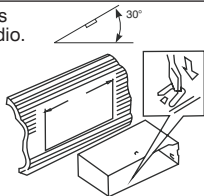
▶ Fitting the outer sleeve

Remove the transit screws from the top of the car radio.

Remove the outer sleeve and place into the dashboard.

Make sure that it is not angled more than 30°.

DON'T FORGET! Bend the metal tabs on the outer sleeve outwards and downwards to stop the sleeve from moving.

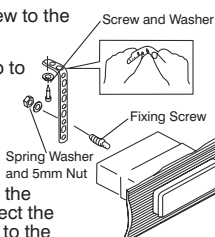


▶ Fitting the support strap

Connect the fixing screw to the rear of the car radio.

Bend the support strap to suit the dashboard aperture and fix to the underside of the dashboard using the screw and washer.

Slide the car radio into the outer sleeve and connect the spring washer and nut to the fixingscrew.

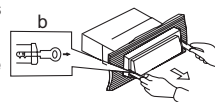


▶ Removing the unit

Insert fingers into the groove in the front of frame and pull out to remove the frame.

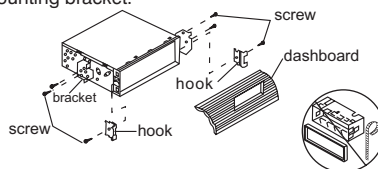


Insert the levers supplied with the unit into the grooves at both sides of the unit as shown in figure until they click. Pulling the levers makes it possible to remove the unit from the dashboard.



▶ Din Rear-mount

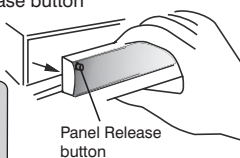
Installation using the screw holes on the sides of the unit. Fastening the unit to the factory radio mounting bracket.



NOTE: The mounting box, outer trim ring and half-sleeve are not used for this method installation.

▶ Removing the detachable front panel

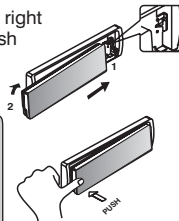
Press the panel release button on the front panel.



DON'T FORGET! Always turn off the car radio before removing the front panel.

▶ Attaching the detachable front panel

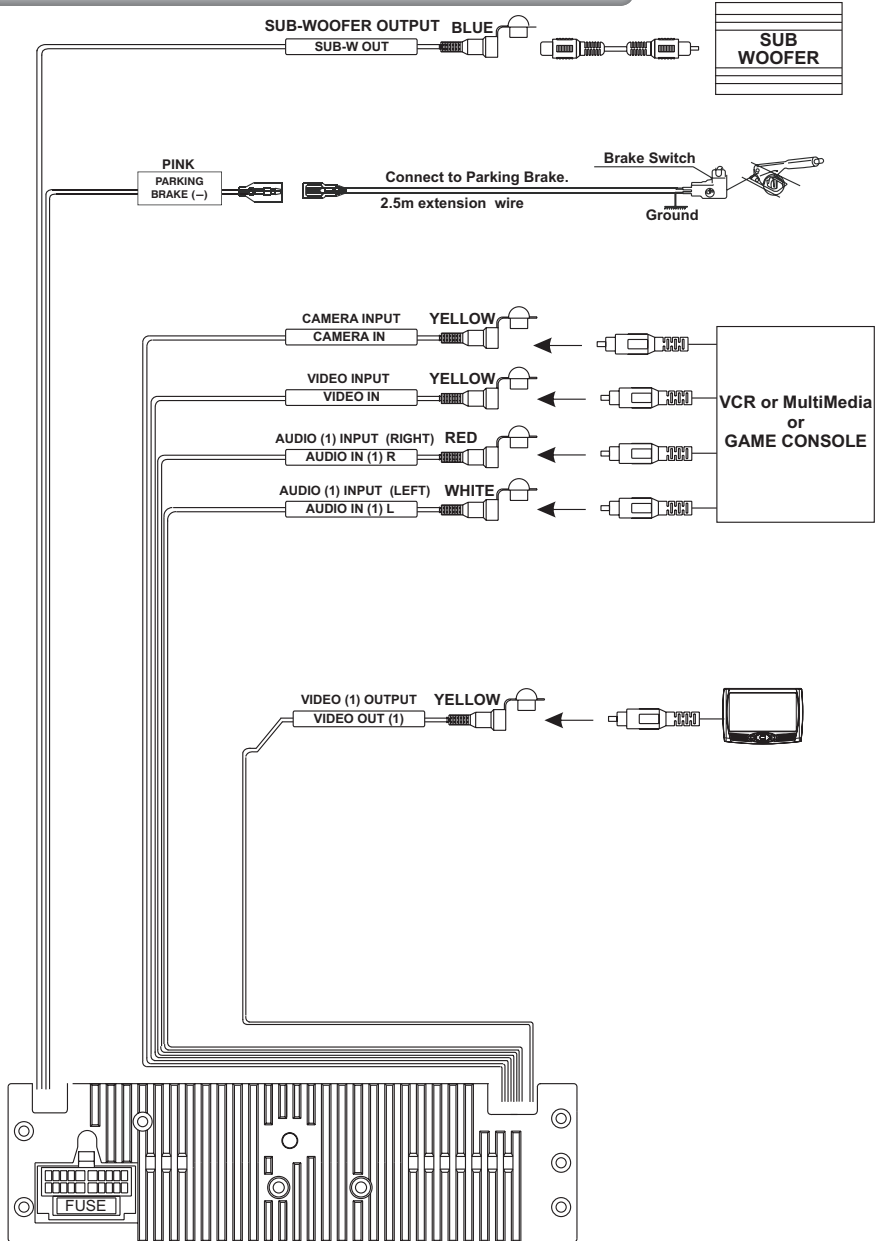
Attach the front panel at the right hand side first, and then push the front panel forwards to lock it securely into place.



NOTE: If the D.C.P is dirty, wipe off the dirt with soft, dry cloth only. And use a cotton swab soaked in isopropyl alcohol to clean the socket on the back of the D.C.P.

Connecting the System

Wiring Diagram-audio/video Connections



Connecting the System

Wiring Diagram - Power / Speakers (ISO)

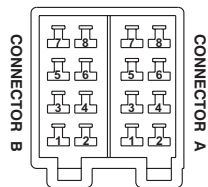
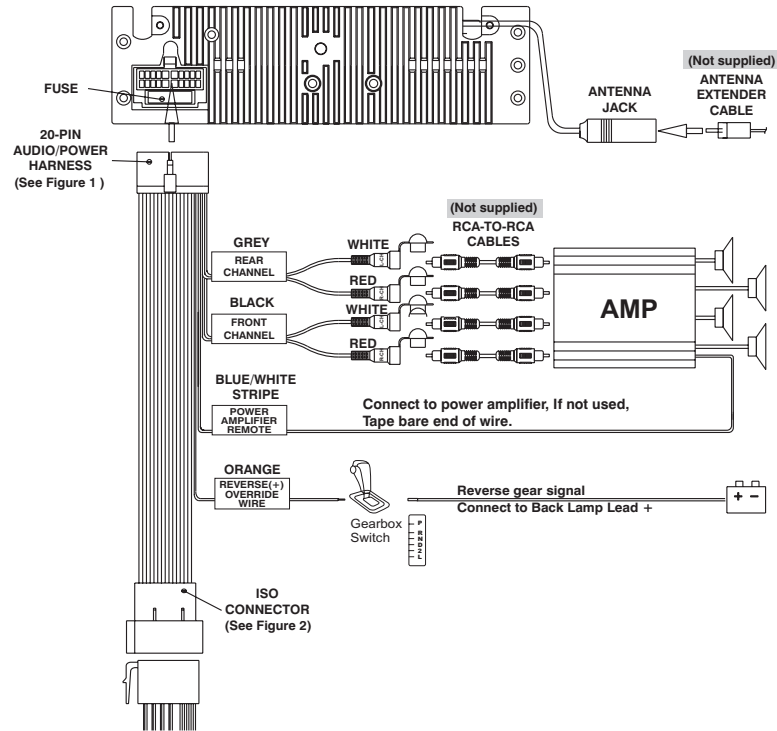
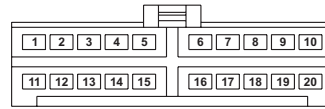


Figure 2

ISO CONNECTOR 4 PIN + 8 PIN FEMALE WITH MALE TERMINAL

ISO CONNECTOR WIRING CHART		
PIN	WIRE COLOR	FUNCTION / LABEL
A4	YELLOW	BATTERY(+)
A5	BLUE	POWER ANTENNA
A7	RED	IGNITION(ACC)
A8	BLACK	GROUND
B1	VIOLET	RIGHT REAR SPEAKER (+)
B2	VIOLET / BLACK	RIGHT REAR SPEAKER (-)
B3	GREY	RIGHT FRONT SPEAKER (+)
B4	GREY / BLACK	RIGHT FRONT SPEAKER (-)
B5	WHITE	LEFT FRONT SPEAKER (+)
B6	WHITE / BLACK	LEFT FRONT SPEAKER (-)
B7	GREEN	LEFT REAR SPEAKER (+)
B8	GREEN / BLACK	LEFT REAR SPEAKER (-)




Pin View Figure 1

20 PIN AUDIO / POWER HARNESS


20 PIN HARNESS PIN CHART		
PIN	WIRE COLOR	FUNCTION / LABEL
1	GREY / BLACK	RIGHT FRONT SPEAKER (-)
2	GREY	RIGHT FRONT SPEAKER (+)
3	VIOLET	RIGHT REAR SPEAKER (+)
4	VIOLET/BLACK	RIGHT REAR SPEAKER (-)
5	ORANGE	REVERSE OVERRIDE WIRE (+)
6	GREEN	LEFT REAR SPEAKER (+)
7	GREEN / BLACK	LEFT REAR SPEAKER (-)
8	RED	IGNITION (ACC)
9	BLACK	REAR PRE-AMPLIFIER LINE OUT COMMON
10	RED	RIGHT REAR PRE-AMPLIFIER LINE OUT
11	WHITE	LEFT FRONT SPEAKER (+)
12	WHITE / BLACK	LEFT FRONT SPEAKER (-)
13	BLUE/WHITE	POWER AMPLIFIER REMOTE (+)
14	BLUE	POWER ANTENNA
15	YELLOW	BATTERY (+)
16	BLACK	CHASSIS GROUND
17	WHITE	LEFT FRONT PRE-AMPLIFIER LINE OUT
18	RED	RIGHT FRONT PRE-AMPLIFIER LINE OUT
19	BLACK	FRONT PRE-AMPLIFIER LINE OUT COMMON
20	WHITE	LEFT REAR PRE-AMPLIFIER LINE OUT

Panel Control Operation

Panel Open/Close Operation

This unit is equipped with the most advanced full logic motorized slide down system. You can enjoy this advance technology with just a single press of the  button. Please read carefully the following operation instruction before operating the unit.

► Open / Close The Panel

Press the  button to slide down (EJECT /TILT) closed panel or to slide up (close) an opened panel.

► Loading a CD



In the slide down position, the disc slot become accessible. Insert a CD through the disc slot, the CD will be automatically loaded and the panel will also close automatically & playback will begin. If no CD is inserted, press Open button again to slide up the panel.

► Ejecting a CD


Press Open to slide down the panel, if a CD is loaded, it will be ejected automatically. No further key press is needed.

If the ejected CD is not being removed, after 10 seconds it will be reloaded automatically. And the panel will automatically slide up after disc has been reloaded.


▲ CAUTION

If the ejected disc remains in the slot, the  button will not function, so closing the panel by using  button is prevented unless the disc is removed or reloaded.

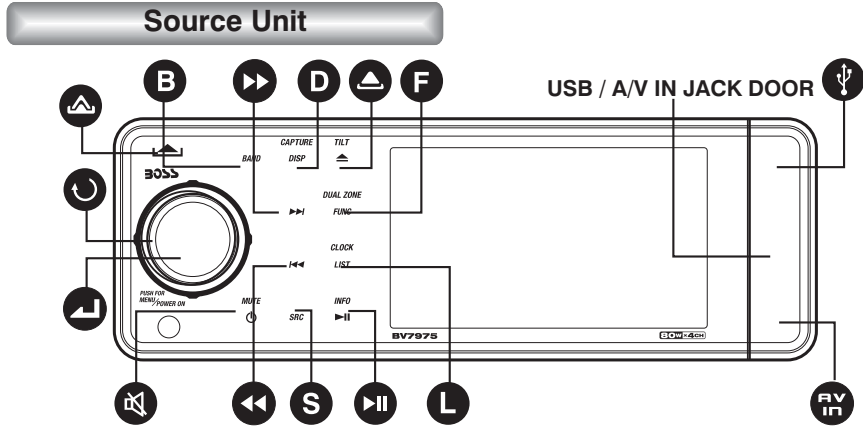
Panel Tilt Adjustment

End user can adjust the panel viewing angle of the display to obtain the optimum viewing angle inside the vehicle. Long press the  button to enter into the Angle options, then rotate the Volume Knob to adjust the level "0" to "8".

WARNING









- Always use the button  to slide up/down the front panel. **Never try to slide up or down the front panel manually,** this will cause serious & permanent damage to the slide down mechanism, and this will void the warranty.
- Do not try to detach / remove the front panel (by pressing the detach button) or attach the front panel when the panel is in the slide down position. This may cause serious & permanent damage to the unit & panel. Only attach or detach the front panel when the panel is in the slide up position.

Name Of Buttons and Theirs Functions



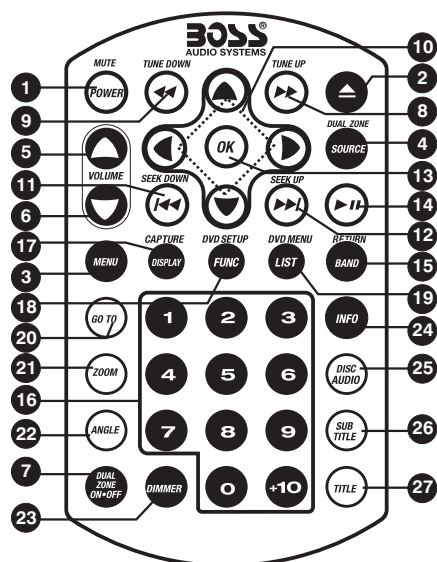
No.	Item	Decriptions
	MUTE	Press this button to turn the mute On / Off.
	POWER OFF	Long press this button to turn Off the unit.
	PLAY / PAUSE	Press this button to Pause / resume Play the music under Media player mode.
	INFO	Long press this button to access the information functions.
	VOLUME KNOB	Rotate the encoder volume knob to increase and decrease the volume. (The maximum volume level is "46".)
	POWER ON	Press this center button to turn On the unit.
	SYSTEM MENU	Long press this button to access into the Menu mode.
	PANEL RELEASE	Press this button to remove the control panel.
	ESC BAND	Press this button to quick return previous menu or mode. Under tuner mode, press this button to access the Band function.
	PRESET LIST	Under tuner mode, press this button to list up stored station.
	MUSIC FILE LIST	Under the Media player mode, press this button to list searching of Tracks or Files on the Media playback mode.
	MultiMedia/ MP4 LIST	Under the MultiMedia/MP4 mode, press this button to list searching of MultiMedia Root Menu or Files on the playback mode.
	DISPLAY CAPTURE	Press this button briefly will be enter the Motion picture display mode and Clock / Date dispal. During video/image playback, press this button can capture images and store them (up to 10 images) to set as wallpaper. You can also capture an image from an auxiliary video device, if connected.

Name Of Buttons and Theirs Functions

	EJECT	Press this button to eject the Disc.
	PANEL TILT	Long press this button to entering adjust the panel viewing angle.
	TUNE UP/DOWN	Under the tuner mode, press and hold momentarily to enter into the Auto Seek / Manual Seek mode..
&	FILE UP/DOWN	Under the Disc mode, press these buttons to skip a chapter / track / scene / image / file.
	FAST FORWARD/BACKWARD	Under the Disc mode, press and hold momentarily to fast forward / backward the video disc.
	SOURCE	Press this button to select different source playback mode, by rotate the encoder knob to select the desire playback mode. Once the desire playback appears, press  Select button as confirm the selection.
	FUNCTION	Press this button to enter into the function mode.
	2-ZONE	Long press this button to access the Dual zone operations.
	USB SLOT (The USB slot behind the USB/AV-IN jack door.)	This unit can support playback MP3/WMA/JPEG/MPEG4/DIVX format which are stored on the USB memory stick.
	AV-IN JACK (The AV-IN slot behind the USB/AV-IN jack door.)	This unit is allowed to connect with external Audio/Video system such like Digital Camera or Game Console. User can connect the external A/V system thru the A/V in jack on front panel.




















Name Of Buttons and Theirs Functions

Remote Control





No.	Button	Item	Decriptions
1		POWER ON / OFF	Press this button to turn the mute On / Off. When the unit is power on, long press this button to turn Off the unit. Once the unit power off, press this button to turn On the unit.
2		EJECT	Press the EJECT button to eject the disc or loading the disc.
3		MENU	Long press the MENU button to enter into the main menu mode. Press the MENU button to enter into the Bluetooth dial operations.
4		SOURCE 2 ZONE MODE	SOURCE Press this button to enter into the SOURCE mode. Long press this button to enter into the Bluetooth transfer mode. 2 ZONE MODE Once the Daul zone turn on, press this button to change Front zone or Rear zone.
5		VOLUME +	Press this button to increase the volume.
6		VOLUME -	Press this button to decrease the volume.
7		2-ZONE	Press this button to access the Dual zone operations.
8			Under the tuner mode, press this button to access the Manual Seek mode. Under the media player mode, press this button fast forward through the music under media player mode.

Name Of Buttons and Theirs Functions

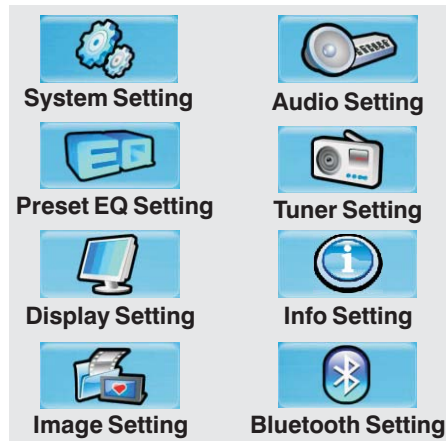
9		FAST BACKWARD	Under the tuner mode, press this button to access the Manual Seek mode. Under the media player mode, press this button fast backward through the music under media player mode.
10		UP/DOWN LEFT/RIGHT	Use these buttons to move cursor up/down/left/right.
11		SKIP BACKWARD	Under the tuner mode, press this button access Auto Seek mode. Under the media player mode, press this button to skip backward of the previous chapter.
12		SKIP FORWARD	Under the tuner mode, press this button access Auto Seek mode. Under the media player mode, press this button to skip forward of the next chapter.
13		ENTER	Use this button to confirm the selection.
14		PLAY/PAUSE	Press this button to Pause / resume Play the music under media player mode.
15		BAND	Press this button to return previous menu. Under the tuner mode, press this button to access the BAND mode.
16		NUMERIC BUTTONS	When playing media, use for track or file number direct access and use when you want to use numeric selection.
17		DISPLAY	Press this button briefly will be enter the screen protect for about 2 seconds, then display the clock mode.
		CAPTURE	During video/image playback, press this button to capture images and store them to set as wallpaper.
18		FUNCTION	Press this button to enter into the function mode.
		MultiMedia SETUP	Long press this button to access the MultiMedia Setup function.
19		LIST	Press this button to viewing the function list.
		PBC	When playback the Video, long press this button to enable / disble PBC function.
		MultiMedia MENU	Under the MultiMedia mode, press this button to invoke the menu screen.
20		GOTO	Under the MultiMedia mode, press this button to pop up the search Menu.
21		ZOOM	When playback the MultiMedia, press this button repeatedly increases the magnification level.
22		ANGLE	Under MultiMedia mode, press this button while playing a scene recorded with multiple angles to change the angle.
23		DIMMER	Press this button adjust the screen brightness.
24		INFO	Press this button to viewing the information.
25		DISC AUDIO	Under MultiMedia mode, press this button during playback to change the audio language.
26		SUBTITLE	Under MultiMedia mode, press this button during playback to turn on/off subtitles and change the subtitles.
27		TITLE	Under MultiMedia mode, press this button to bring up the Title Menu.

System Menu Operations

Main System Menu

Long press the Menu ( center vol button) button to access the System Menu mode, then user can rotate  to select the desired mode.

Menu items for selection:



System Setting

Under the System Setting menu, there are have below options for selection:

Date Set	To adjust the Date/Month/Year.
Clock Set	To adjust the hour and minute.
Time Format	To change the time format between "12H" and "24H".
Date Set	To adjust the Date/Month/Year.
Clock Set	To adjust the hour and minute.



Audio Setting

Under the Audio Setting menu, there are have below options for selection:

iX-Bass	1. Level:adjust the iXBASS level from Low, Middle or High. 2. P.FREQ:adjust the iXBASS peak frequency as 400Hz, 800Hz or 2.4KHz.
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Sub-W	1. Level:Rotate Volume Knob to adjust the Subwoofer lever from 00 to 12. 2. LPF:Rotate Volume Knob button to adjust the Low pass filter (LPF) as Flat, 80Hz, 120Hz or 160Hz.
Bass	1. Level:adjust the Bass level from -06 to +06. 2. C.Freq:adjust the Bass center frequency as 60Hz, 80Hz, 100Hz, or 200Hz. 3. Bass-q:adjust the Bass Quality Factor as 2N, 1N, 1W or 2W.
Treble	1. Level:adjust the Treble level from -06 to +06. 2. C.Freq:adjust the Treble center frequency (C.FREQ) as 10KHz, 12.5KHz, 15KHz, or 17.5KHz
Middle	1. Level:adjust the Middle level from -06 to +06. 2. C.Freq:adjust the Middle Range center frequency as 500Hz, 1KHz, 1.5KHz, or 2.5KHz. 3. Mid.q:adjust the desired Middle Quality Factor to 2N, 1N, 1W or 2W.
Balance	To adjust the Balance between the right and left speakers from R12 to L12. Balance Center for this unit is Balance C00.
Fader	To adjust the Fader between the front and rear speakers from R12 to F12. Fader Center for this unit is Fader C00.
2-Zone	1. If Front Zone 'F-Zone' is selected, rotate the encoder knob to navigate through different modes: Tunner > BT are available for selection of the Front Zone or AV output. 2. If Rear Zone 'R-Zone' is selected, rotate the encoder knob to navigate through different modes: Tunner > MultiMedia > AV-1 > AV-2 > BT are available for selection of the Rront Zone or AV output.

System Menu Operations



Preset EQ Setting

Under the Preset EQ Setting, there are have 9 different types of preset equalizer available for user selection. Once access into the EQ menu, rotate the encoder knob to navigate the following EQ setting:

FLAT	POP	COUNTRY
ROCK	JAZZ	REGGAE
R&B	DANCE	CLASSIC



Tuner Setting

Under the Tuner Setting menu, there have below options for selection:

AF	To change AF On / Off.
TA	To change TA On / Off.
TA Seek	To change TA Seek On / Off.
TA Volume	When TA function is activated, if a TA program is tuned in, the volume level will automatically set to this set up volume, regardless of the volume level of the current mode.....
Region	When Region is On, then during an AF search or PI seek, it will implement to station which have all the PI codes which are the same as the current station. When Region is Off, then during an AF search or PI seek the regional code in the format PI code will be ignored. A regional station is possible to be received.....
Tuner Set	This feature is used to designate the strength of the signals at which the radio will stop during automatic tuning. "Distance" is the default, allowing the radio to stop at a broader range of signals. To set the unit to select only strong local stations during automatic tuning, rotate the volume knob to select "Local" mode.....
Tuner Area	This option allows the selection of the frequency spacing which is most appropriate for the area this unit is used in, USA, Euro



Display Setting

Under the Display Setting menu, there are have below options for selection:

Standby Disp	<p>Under "Ignition On But Power Off" condition, this unit have the following different types of Standby display for selection:</p> <ul style="list-style-type: none"> ● Off: To turn off the unit. ● Clock: To display the Clock on TFT. ● Fish: To display the Virtual Aqua Screen on TFT. ● Demo: To automatically demo this unit's major features cyclic on TFT. ● Gallery: To preview the pre-loaded factory default images which stored into My Gallery. <i>Tips: For details operation of My Gallery, please refer to page of Wallpaper Setting.</i> ● Image: To preview the captured images which stored in My Image. <i>Tips: For details operation of My Gallery, please refer to page of Wallpaper Setting.</i>
Dimmer	To adjust the TFT Backlight level between High / Mid / Low.



Information Setting

This display is showing this unit system software version.




System Menu Operations



Image Setting

In this menu user can select his/her favor image as wallpaper on the playback mode. There are two sources of images for selection:

My Gallery	This unit includes 10 pre-loaded images. User can select these 10 pre-loaded images as wallpaper on the playback mode.
My Image	This unit allows user self-capture from VIDEO or JPEG pictures. User can select these 10 pre-loaded pictures set as Wallpaper. Note: you can press  button to select Erase Current or Erase All.
Default	This option allows users to change the background screen from wallpaper to factory default screen.
Free Memory	This feature allows user to check the remaining memory capacity of images for capture. Tips: This unit max can capture 10 images and pre-store into My Image.

Tuner Operation

▶ [S] SOURCE BUTTON

Press **S** button to select Tuner playback mode then press **↵** button as confirm the selection.

▶ [B] BAND BUTTON

Press the **B** button to change between FM bands and or AM(MW) bands.

▶ [F] FUNCTION BUTTON

Press the **F** button under Tuner mode the following function are allow to operation:

Manual Store	Use this function to saved the current frequency to memory station.
Auto Store	After Auto Store saved full 6 stations, will automatically enter present scan one time.
AF On/Off	To change AF in On or Off mode.
TA On/Off	To change TA in On or Off mode.
PTY Seek	You can get into the PTY list to select the desired PTY mode.

▶ [L] LIST BUTTON

You can get into the Store List to select the desired staion to Recall.

▶ [▶▶][◀◀] TUNING UP/DOWN BUTTON

1. Long press these buttons to access the Manual Seek mode.
2. Press these buttons to access the Auto Seek mode.

▶ INFO BUTTON

Under RDS mode, press INFO button to view the station information.

Media Player Operations (Disc/USB/SD Memroy Card)

This unit can play various video/audio format which stored into disc/USB or SD Memory card on Media Player.

The following chart helps you to check if a disc is supported by this unit, as well as what functions are available for a given disc type.

Disc format
Digital Versatile Discs (MultiMedias)
Video CDs (VCDs)
Digital Versatile Discs Recordable (MultiMedia+/-R)
Digital Versatile Discs Rewritable (MultiMedia+/-RW)
Compact Discs (CDs)
CD Recordable (CD-R)
CD Rewritable (CD-RW)

Audio Format

Playback CD-DA and MP3 or WMA digital music file on CD-ROM or MultiMedia-ROM or USB or Memory Card.

Note of MP3 and WMA:

Support Maximum 2000 files
Maximum 30 characters display
Supported Sampling frequencies; 32kHz, 44.1kHz, 48kHz.

Supported Bit-Rates: 64-256 kbps variable bit rate

Video Format

Playback IMAGE JPEG, MultiMedia Video, MPEG4 . on CD-ROM or MultiMedia-ROM or USB or Memory Card.

Noted of MPEG4

Supported decoding MPEG-4 video defined by ISO 14496-2 Standard:

1. Simple Profile (SP) and
2. Advance Simple Profile (ASP)

Supported file format: MP4 and .M4a (audio only)

Unsupported Discs

8 cm Disc
CDV, CDI, CDG,
LD
MultiMedia RAM

Note on Region Code

MultiMedia players and MultiMedia Video discs have their own Region Code numbers. This unit can play the disc of all region code numbers.



Disc Maintenance

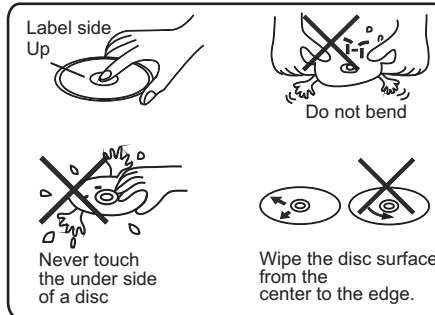
Before playing, wipe the disc using a clean cloth, working from the center hole towards the outside edge.

Never use benzene, thinners, cleaning fluids or anti-static liquids or any other solvent.



NOTE

A disc may become somewhat scratched (although not enough to make it unusable) depending on you handle it and conditions in the usage environment. Note these scratches are not an indication of any problem with the player.



Media Player Operations (Disc/USB/SD Memory Card)

General Operation

▶ [S] SOURCE BUTTON

Press **S** button to select Disc, USB, SD Card, then press SEL button to start playback.

▶ [] PLAY/PAUSE BUTTON

Press **||** button to pause the music. Press the pause button again to resume play.

▶ [L] LIST SETTING

Press **L** button to view the songs list and rotate the encoder knob to select the desired song, then press the ENTER button to play.

▶ [] [] TRACK SELECT

Use these buttons to move to the next track on the Disc mode. The selected track number will appear on the display. Press and hold the button for more than one second to fast forward or fast rewind through the media. CD play when the button is released.

▶ INFO BUTTON

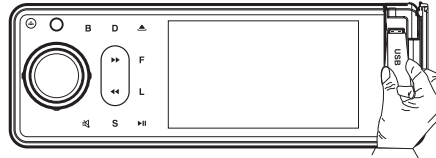
Press INFO button to view the ID3 information.

▶ [F] FUNCTION BUTTON

Under the Function menu, there are have below options for selection:

Repeat	If select "One", Unit will play the current song file repeatedly. Select "Off" to cancel repeat function.
Random	During the disc playback, select random "On" to play all tracks on a CD in random order, select random "Off" will stop the random play.
Default	Setting the Default on will reset all options of Media function setting to factory defaults setting.

Insert the USB Stick



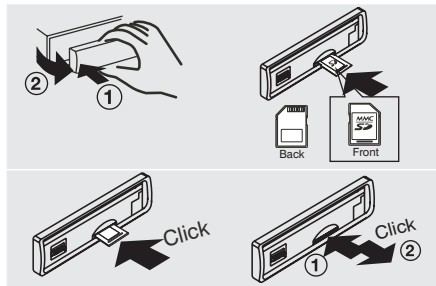
⚠ CAUTION

This unit does not support any portable Hard disk / drive.

WARNING

Before removing the USB stick from the front panel, always remember to switch off the unit's power or switch to other mode then remove the USB Stick. Never try to remove the USB Stick while it is in use. It may damage the USB Stick, may cause permanent damage to the unit and/or cause the unit system to freeze.

Insert the Memory Card



▶ Mode Change to Memory Card

After an SD card is inserted into the main unit card slot. Press **S** button to select card mode. The unit will start playing the files contained on the Memory Card. Once the unit starts reading the Memory Card successfully, the first file on the Memory Card will automatically start playback.

NOTE

If no any Memory Card is inserted into the main unit card slot. Press **S** button will automatically skip card mode.

MultiMedia Operations

Once a MultiMedia disc is inserted into the unit, the unit will automatically start the playback from the beginning of the disc.

▶ [] PLAY/PAUSE BUTTON

1. Press this button to pause playback.
2. Press this button again to resume normal playback.
3. Long press this button is forward to the next picture in the video (MultiMedia and VCD only).

▶ [] [] TRACK SELECT

1. Press these buttons to skip forward to the beginning of the next or previous chapter.
2. Long press these buttons to fast forward or fast rewind through the disc. Press these buttons again to resume normal playback.

▶ [L] LIST BUTTON

Press the **L** button to view the main item and select the desired to playback.


▶ INFO BUTTON

Under MultiMedia mode, press INFO button to view the station information.

▶ [F] FUNCTION BUTTON

Under the Function menu, there are have below options for selection:

Repeat	<ol style="list-style-type: none"> 1. Repeat "CH" to repeat playback the current the chapter. 2. Repeat "Title" to repeat playback the current title. 3. Repeat " Off " to cancel all the Repeat function.
---------------	---

Disc Audio	During playback to change the audio language(MultiMedia/Divx only).
Video Setting	Under the Video Setting mode, user can rotate  to adjust the color level from "01" to "10".
MultiMedia Setup	<p>Under the MultiMedia Setup mode, there are have below options for selection:</p> <ul style="list-style-type: none"> ● Aspect Ratio: Selecting the TV Aspect setting allows the user to select the aspect ratio of the TV (MultiMedia and VCD only). The following options are available: <i>4:3 = Aspect ratio of TV is 4:3.</i> <i>16:9=Aspect ratio of TV is 16:9.</i> <i>Both wide screen and 4:3 contents will fill the entire screen.</i> ● TV Signal: The Video setting allows the user to select the TV standard (MultiMedia and VCD only). The following options are available: <i>NTSC = TV is NTSC. PAL content is played at NTSC resolution and frame rate(factory default).</i> <i>PAL = TV is PAL. NTSC content is played at PAL resolution and rame rate.</i> <i>AUTO = If the content is PAL, the output is PAL. If the content is NTSC, the output is NTSC.</i>
Default	Setting the Default on will reset all options of Media function setting to factory defaults setting.

Dual Zone Operation

This unit is equipped with the most advance "Dual Zone" feature. This function is useful if the user would like to select different modes of the Audio and Video output source for Front and Rear Speakers and TFT Screens. For example, user can select to listen to Tuner music for front speakers and rear speaker for MultiMedia movie.

▶ To Switch On Dual Zone Mode

1. "Off" is the default setting.
2. Long press the **F** button on the control panel or remote control to access into Dual Zone Control mode:



and use **⏪** select 2-Zone to On.

▶ The Available Playback Mode

1. Front Zone: Tuner modes are available select for playback on Front Zone.
2. Rear Zone: Tuner, Media (MultiMedia/USB/SD) AV modes are available select for playback Rear Zone.

NOTE

AV-1 & AV 2 are considered as the same mode /source in the DUAL ZONE function. So if either the Front or Rear Source is set to AV-1 or AV-2 mode, The other ZONE is not allowed to select the AV-2 or AV-1 Mode eg: If F-Zone is selected "AV-1", then R-Zone is not allow to have "AV-2".

▶ To Select Front/Rear Sources

Once "On" is selected, use **⏪** **⏩** to access to Front or Rear mode by rotate **⏪** to select the mode want to playback.

▶ To Operates Function of Front / Rear Soures

1. The Front Panel & Remote control, is defaulted to control the FRONT source's function / operation.
2. When DUALZONE is turned "On", the **S** button is used to change Front source & Rear source. Press the **S** button repeatedly to change between Front and Rear.

3. The TFT screen will display the Rear Source mode for 10 seconds. User has 10 seconds to make the desired operation on the Rear Source's function on the Front Panel or Remote Control.
4. The TFT screen will automatically switch back to the Front Source after 10 seconds. And the Front Panel and Remote now is resumed to operate for Front Source's function again.

▶ The Default Setting When Dual Zone is "On"

1. When DUAL ZONE is turned on, the audio output will be muted for about 1 second.
2. The default source / mode for Front ZONE is Tuner & for Rear ZONE is "MultiMedia".
3. The default Volume level is "12" for both Front & Rear ZONE audio output. (or the Volume Level set as VOL PGM Level set in the Menu).
4. The TFT screen is defaulted to display the Front Mode.
5. When Dual Zone is "On", some of the AUDIO FUNCTION WILL NOT BE FUNCTIONAL, THESE FUNCTION ARE: Bass / Treble / Middle / Balance / Fader / Sub-woofer / iX-bass.

▶ To Switch Off Dual Zone Mode

Long press **F** button to access into Dual Zone and by rotate **⏪** select Off mode.

TIPS

Long press " System Menu" and access into Dual Zone mode is same can be operation the Off mode.

▶ The Default Setting When Dual Zone Is In "off" Mode

The default audio output reverts to what the user selected for the FRONT Zone source when DUAL ZONE IS "OFF". For example: When the DUAL Zone is "ON ", user has selected MultiMedia for Front ZONE & Tuner for Rear ZONE. Once DUAL ZONE is turned "OFF", Audio Output for all 4 speakers becomes "MultiMedia" mode.

AV-In Mode

Select the AV Mode

You can connect up to 2 optional devices, press the **S** button to enter into the AV mode:
AV in - 1 = Front panel AV in
AV in - 2 = RCA back of unit

▶ AV in-1

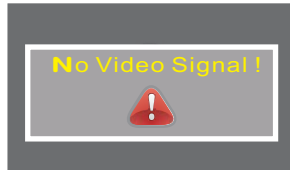
This unit is allowed to connect with external Audio/Video system such like Digital Camera or Game Console. User can connect the external A/V system thru the A/V in jack on front panel.

▶ AV in- 2

Connect the external signal to the RCA line in jack located at the rear of the unit, then press **S** button to select AV in-2.

TIPS

The below " No Video Signal " will be show on the TFT as remind if there is no any external AV System input.



About the Parking Wire

⚠ CAUTION

In order to avoid any accident, the driver must not watch video while driving. This unit is designed to not allow watching video while driving. Park your car in a safe place and engage the parking brake before watching moving video.

NOTE

When the Parking Brake is NOT Engaged, the Video Blocking System will only affect the unit's display. The Video Output thru the rear RCA is not affected.

Tips

Be sure to connect the Parking Brake connection lead. (please see more details on " Wiring Diagram.")

NOTE

When watching a video from Disc or AV IN sources, the video signal will be blocked by the system IF the Parking Brake is not properly connected. The below display will be show on TFT:



About The Reverse Wire For Back Up Camera System

If user connected a back up camera system to this unit, the vehicle is in reverse Gear (Back Up mode), the front in-dash TFT display will automatically switch to Back Up Camera Video signal regardless whatever mode is currently displayed on the front in-dash TFT.

Tips

Be sure to connect Reverse wire properly. (please see more details on " Wiring Diagram.")

Wallpaper Setting

Setting the Background Screen (Wallpaper)

This unit allows user change the background screen on the playback mode. This function is called wallpaper change. User can select the desired image on the below operation to set as wallpaper.

How To Select The Image

Access to the System Menu and press IMAGE Menu, the below TWO location are available for images selection;

► My Gallery

There is total 10 factory default images for user select use as wallpaper.

TIPS

For details operation, please refer to SYSTEM MENU_DISPLAY_MY GALLERY.

► My Image

This is stores all those images capture by user on this unit.

TIPS

For details operation, please refer to SYSTEM MENU_DISPLAY_MY IMAGE.

Capturing Images for Wallpaper

This units allows user during video or images playback, user can capture images and store them (up to 10 images) to set as wallpaper. User also can capture an image from an Auxiliary video device if connected.

How To Capturing Images

1. Start playing the disc, USB stick , SD card or auxiliary video device.
2. Hold press ' **D** ' capture buttons for more than 3 seconds when the desired scene or image appear on the TFT screen.

3. The confirmation display appears as confirmed the image is stored in to MY IMAGE.

TIPS

Those capture images will store in the SYSTEM MENU_DISPLAY_MY IMAGE. For details please refer to SYSTEM MENU_DISPLAY_MY IMAGE.

How To Setting The Captured Images As Wallpaper

The captured images can be set as wallpaper on the playback mode.

TIPS

For details setting of wallpaper, please refer to SYSTEM MENU_MY IMAGE.

NOTE

- Do not turn off the unit while storing the image.
- Stored image may differ from the original aspect ratio due to compression or elongation.

Highlight Features

Motion Pictures Display Mode

The unit has 3 different types of motion pictures that can display on TFT under playback Mode. Pressing the 'D' button repeatedly can switch between the 3 difference modes.

- The 1st press is Virtual Aqua display mode
- The 2nd press is EQ dancing meter display mode
- The 3rd press is DEMO mode

TIPS

DEMO display mode is self-demonstration the major highlight function which Available on this unit.

- The last press is back to the current playback display mode

NOTE

When pressing 'D' button switching thru each three difference Motion Pictures mode. The TFT screen will have around 1-2 seconds 'BLANK' screen (dark screen). This is normal because during these 1-2 seconds BLANK screen is for waiting to re-loading the next motion pictures.

Clock & Date Display Mode

User can choose display the Clock / Date on the screen. Long press the 'L' button for more than 3 seconds to change the Clock / Date display mode. Under Clock /date display mode long press 'L' button again to change back display the playback mode.

TFT Backlight Dimmer Control

User can adjust the TFT backlight on the screen. Long press '▲' button for more than 3 seconds enter into the Display mode to adjust the Dimmer level between High / Mid / Low.

Standby Display Mode

Under "Ignition On But Power Off" condition, user can set up the Standby display mode for below:

- **Off:** To turn off the unit.
- **Clock:** To display the Clock on TFT.
- **Fish:** To display the Virtual Aqua Screen on TFT.
- **Demo:** To automatically demo this unit's major features.
- **Gallery:** To preview the pre-loaded factory default images which stored into My Gallery.

TIPS

For details operation of My Gallery, please refer to page of **Wallpaper Setting**.

- **Image:** To preview the captured images which are stored in My Image.

TIPS

For details operation of My Image, please refer to page of **Wallpaper Setting**.

Panel Tilt Adjustment

End user can adjust the panel viewing angle of the display to obtain the optimum viewing angle inside the vehicle. Long press '▲' the button to enter into the Angle options, then rotate the Volume Knob to adjust the level "00" to "12".

Specifications

TFT Screen Section

Screen Size: 3.6" (Measured Diagonally)
Screen Type: TFT Liquid Crystal Display active matrix
Resolution: 320 x 240

MultiMedia / CD Section

Compatible Disc/Format	See "Disc Note" for more details description
Signal to Noise Ratio	≥ 90 dB
Dynamic Range	≥ 90 dB
Frequency Response	20Hz to 20KHz +/-3dB
Channel Separation	2 Channel (Stereo) >60dB @1khz

Video Section

Color System	NTSC / PAL
Video Output	Composite 1.0 Vp-p (+/- 0.2) 75 - ohm
Video Input	Composite 1.0 Vp-p (+/- 0.2) 75 - ohm

Audio Section

Max Output Power	80W x 4 channels
Load Impedance (speakers)	4 ohms
Digital Output	900mV
Line out level / load	400mV / 10k ohm load
Line out Impedance	200 ohm

Auxiliary Input Section

Frequency response	20Hz to 20KHz -3dB
Input Maximum Voltage	1200 mV
Input Impedance	4.7k ohm

Radio Section

FM

Frequency Range	87.5-108.0 MHz (Europe) 87.5-107.9 MHz (U.S.A)
Usable Sensitivity	≤ 15dB at S/N 30 dB
Stereo Separation	25 dB at 1KHz
S/N Ratio	50 dB

AM or MW(OPTIONAL)

Frequency Range	522-1620 Khz (Europe) 530-1720 (U.S.A)
Usable Sensitivity	≤ 40dB at S/N 20dB
S/N Ratio	40 dB

General

Operating Voltage	DC 11 - 14.4V
Grounding System	Negative Ground
Fuse:	15-Amp Mini ATM Type
Operating Temperature:	0° C to 50° C
Unit Mounting Angle	≤ 30°

Troubleshooting

Before going through the check list, check wiring connection. If any of the problems persist after check list has been made, consult your nearest service dealer.

Symptom	Cause	Solution
No power	The car ignition is not on.	If the power supply is properly connected to the car accessory terminal, switch the ignition key to "ACC"
	The fuse is blown.	Replace the fuse.
Disc cannot be loaded or ejected	Presence of CD disc inside the player.	Remove the disc in the player, then put a new one.
	Inserting the disc in reverse direction.	Insert the compact disc with the label facing upward.
	Compact disc is extremely dirty or defective disc.	Clean the disc or try to play a new one.
	Temperature inside the car is too high.	Cool off or until the ambient temperature returns to normal.
	Condensation.	Leave the player to off for an hour or so, then try again.
No sound	Volume is in minimum.	Adjust volume to a desired level.
	Wiring is not properly connected.	Check wiring connection.
The operation keys do not work	The built-in microcomputer is not operating properly due to noise.	Press the RESET button. Front panel is not properly fixed into its place
Sound skips.	The installation angle is more than 30 degrees.	Adjust the installation angle to less than 30 degrees.
	The disc is extremely dirt or defective disc.	Clean the compact disc. Then try to play a new one.
The radio does not work. The radio station automatic selection does not work.	The antenna cable is not connected.	Insert the antenna cable firmly.
	The signals are too weak.	Select a station manually.
ERROR	Mechanism Error	Press the eject button to correct the problem. If the error code does not disappear, consult your nearest service dealer.
Disc Error	Maybe disc dirty / disc scratched / disc upside down.	Replace the disc.



If at any time in the future you should need to dispose of this product please note that Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.(Waste Electrical and Electronic Equipment Directive)