

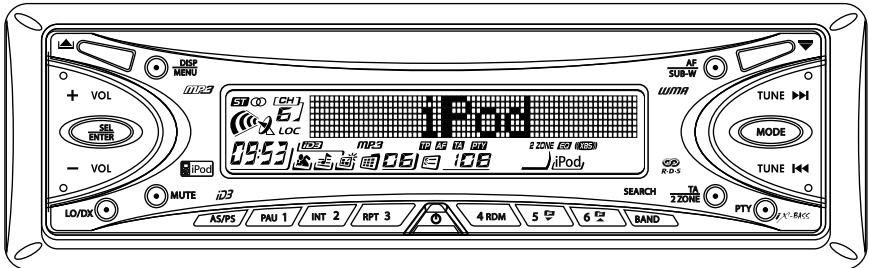
# Goodmans

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## INSTRUCTION MANUAL

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### Model GCE2814IP In Car Radio Compact Disc Player

e13  
022706



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### **NOTE**

**Only Apple I-pod family of products can be connected to this unit.  
Playback of MP3/WMA is by CD only.**

### **IMPORTANT**

**Do not forget to remove the Transit Screws on top of the unit before  
installing into your vehicle.  
Failure to do so will result in the CD not playing.**

## ACCESSORIES

When first unpacking your new in Car Radio CD Player, please check first that the package contains all of the items below. If something is missing, contact the store where you purchased the player.

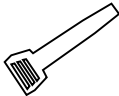
- **Owner's Manual**



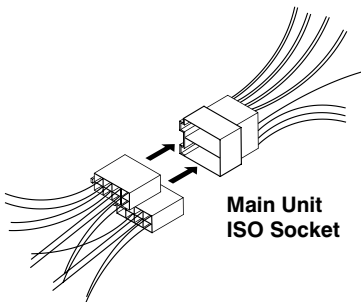
- **Spare Fuse**



- **2 x Release key**



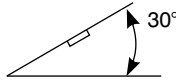
- **For use when ISO plugs are not used on your vehicle**



- **1 X 5mm nut**
- **1 X spring washer**
- **1 12mm self-tapping screw**
- **1 X 5mm screw**
- **1 X support strap**
- **1 X plain washer**

## **INSTALLATION**

- Before finally installing the unit, carry out a sound check. If high distortion or intermittent sound is experienced, it is possible that the wiring to the car's electric is poor, or that the battery needs recharging.
- Use only the parts included with the unit to ensure a safe and secure installation.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications to the vehicle.
- Choose a mounting location carefully so that the unit will not interfere with the normal driving functions of the vehicle.
- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance.

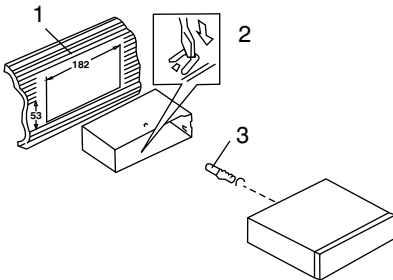


- Avoid installing the unit where it would be subject to high temperature, such as from direct sunlight, or from hot air, from heater, or where it would be subject to dust dirt or excessive vibration.
- Be sure to remove the front panel before installing the unit.

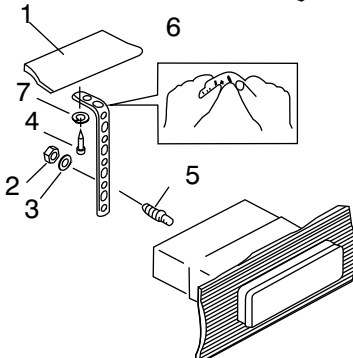
### **DIN FRONT/REAR-MOUNT**

This unit can be installed either from "Front" (conventional DIN Front-mount) or "Rear" (DIN Rear-mount installation, utilizing threaded screw holes at the sides of the unit chassis). For details, refer to the following illustrated installation methods A and B.

#### **- DIN FRONT-MOUNT (Method A)**

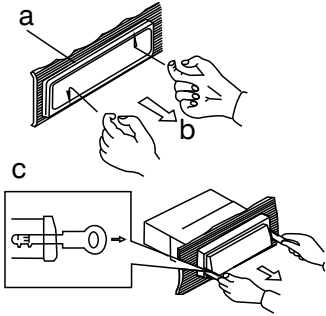


1. Dashboard
2. Mounting sleeve  
After inserting the half sleeve into the dashboard, select the appropriate tab according to the thickness of the dashboard material and bend them inwards to secure the sleeve in place.
3. Screw



1. Dashboard
2. Nut (5mm)
3. Spring washer
4. Screw (4x12mm)
5. Screw
6. Support Strap  
Be sure to use the support strap to secure the back of the unit in place. The strap can be bent by hand to the desired angle.
7. Plain washer

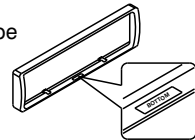
**Removing the unit**



- a. Frame
- b. Insert fingers into the groove in the front of frame and pull out to remove the frame. (When re-attaching the frame, point the side with a groove down wards and attach it.)
- c. 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.

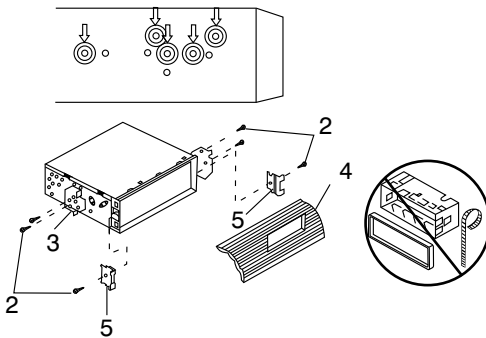
**- Trim Ring Installation:**

Before attaching the trim ring, the side with a "Bottom" Label should be seen on the lower edge of the ring (as shown on diagram). Push the trim plate against the main panel until it clicks into place.



**- DIN REAR-MOUNT (METHOD B)**

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



1. Select a position where the screw holes of the bracket and the screw holes of the main unit become aligned (are fitted) and tighten the screws at 2 places on each side.
2. Screw
3. Factory radio mounting bracket.
4. Dashboard or Console
5. Hook (Remove this part)

Note: the mounting box, outer trim ring, and half-sleeve are not used for method B installation.

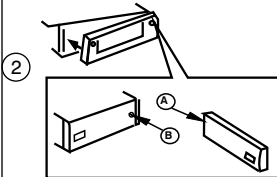
# **USING THE DETACHABLE FRONT PANEL**

## **Removing The Detachable Front Panel**



1. Turn the power off
2. Press the front panel release button
3. Remove the front panel

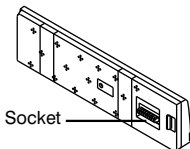
## **Attaching the front panel**



1. Insert the right side of the front panel into the main unit. .
2. Press the left hand side of the front panel until a "click" sound is heard

## **Precautions when handling the Detachable Front Panel**

- Always insert the front panel in the manner described above. Failure to do so may damage both the panel and the main unit.
- Do not drop the front panel. Always place it the the protective case provided when not in use.
- Do not touch the contacts on the front panel or the main unit. It may result in a poor electrical connection.

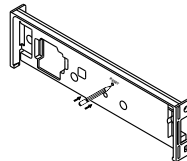


### **Note:**

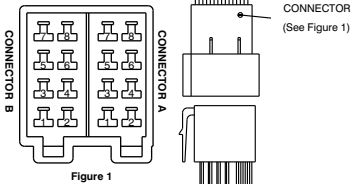
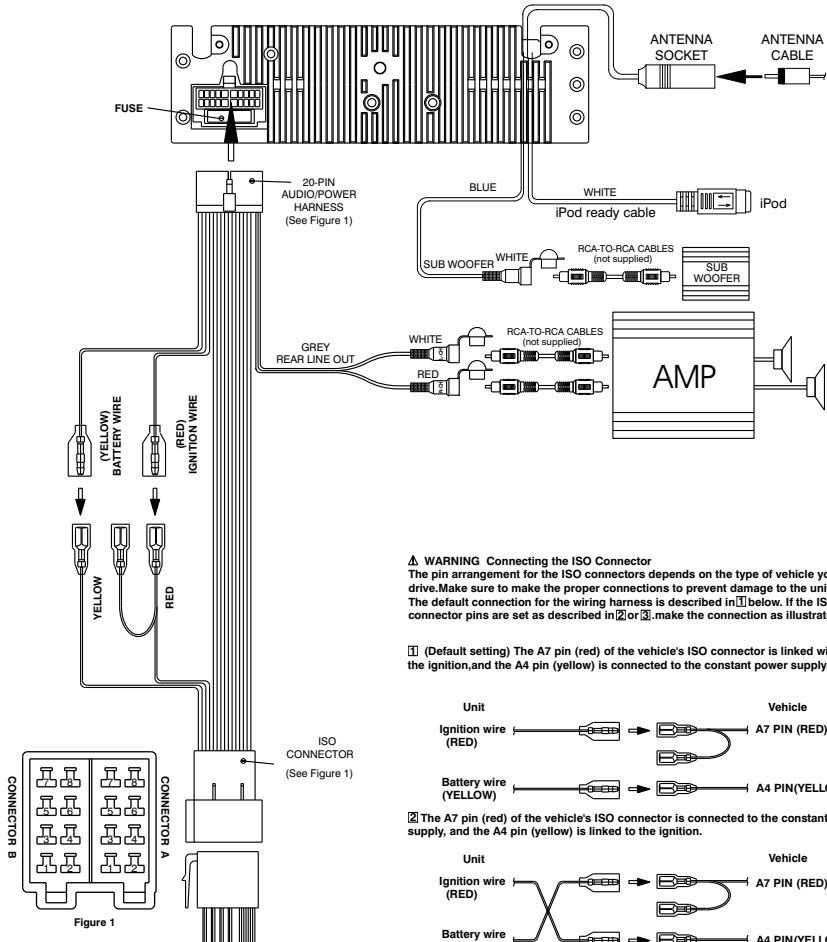
If the front panel is dirty, wipe off the dirt with soft, dry cloth only. To clean the contacts on the front panel, use a cotton swab soaked in isopropyl alcohol.

## **RESETTING THE UNIT:**

- After releasing the front panel, use a pencil or any non-metallic object to press & hold the reset button for five seconds to reset the unit.



# WIRING IDENTIFICATION



ISO CONNECTOR 4PIN + 8PIN FEMALE WITH MALE TERMINAL

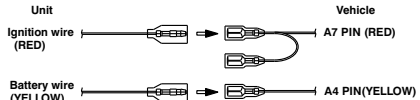
ISO CONNECTOR WIRING CHART

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 (-)

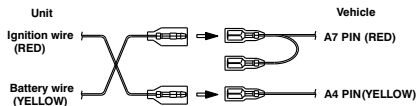
## ⚠ WARNING Connecting the ISO Connector

The pin arrangement for the ISO connectors depends on the type of vehicle you drive. Make sure to make the proper connections to prevent damage to the unit. The default connection for the wiring harness is described in ❶ below. If the ISO connector pins are set as described in ❷ or ❸, make the connection as illustrated.

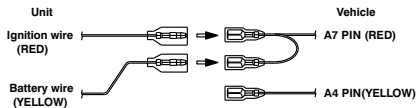
❶ (Default setting) The A7 pin (red) of the vehicle's ISO connector is linked with the ignition, and the A4 pin (yellow) is connected to the constant power supply.



❷ The A7 pin (red) of the vehicle's ISO connector is connected to the constant power supply, and the A4 pin (yellow) is linked to the ignition.



❸ The A4 pin (yellow) of the vehicle's ISO connector is not connected to anything, while the A7 pin (red) is connected to the constant power supply (or both the A7 (red) and A4 (yellow) pins are connected to the constant power supply).



When the connection is made as in ❸ above, the unit's power will not be linked to the ignition key. For that reason, always make sure to turn off the unit's power when the ignition is turned off.

To link the unit's power to the ignition, connect the ignition cable (ACC...red) to a power source that can be turned on and off with the ignition key.

## **PANEL OPEN/CLOSE OPERATION**

### **OPEN / CLOSE THE PANEL:**

Press the Open / Close button and the front panel will automatically slide down to allow access to the CD slot. Press again to return the panel to the closed position.

### **LOADING A CD**

When the panel is in the slide down position, the disc slot becomes 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 loaded, press the Open/Close button to return the panel to the closed position.

### **EJECTING A CD**

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

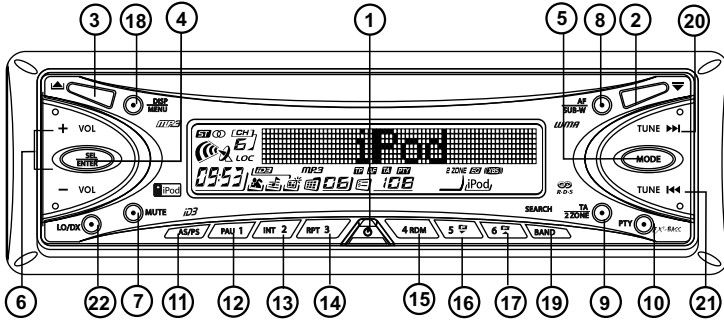
The CD can now be removed from the CD slot. If the CD is left in this position for more than 10 seconds, it will retract back into the CD mechanism and the front panel will return to the closed position.

### **CAUTION:**

- A) Never try to manually slide up/down the fascia panel, as this will damage the mechanism. Always use the Open/Close button.
- B) Please 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 closed position.



# IDENTIFICATION OF CONTROLS AND FUNCTIONS



## OPERATIONS:

KEY	SYSTEM		TUNER		CD/MP3/WMA		iPod	
	Brief Press	Press & hold	Brief Press	Press & hold	Brief Press	Press & hold	Brief Press	Press & hold
1	Power							
2	Panel Open & Close				Eject			
3	Panel Release button							
4	SELECT				Enter		Enter	
5	Mode							
6	Volume Up / Down							
7	Mute							
8		Sub-W	AF					
9		2 ZONE	TA					
10		ix-Bass	PTY					
11			PS	AS	ID3		iPod information	
12			Preset 1	Store Memory 1	Pause/Play		Pause/Play	
13			Preset 2	Store Memory 2	Intro	Folder Intro		
14			Preset 3	Store Memory 3	Repeat	Folder Repeat	Repeat	Album Repeat
15			Preset 4	Store Memory 4	Random	Folder Random	Shuffle	Album Shuffle
16			Preset 5	Store Memory 5	Folder Down			
17			Preset 6	Store Memory 6	Folder UP			
18	Display	Menu						
19			Band		File/ Folder Search		iPod Search	
20			Seek Up	Tune Up	Track /File Up	Fast Forward	File Up	Fast Forward
21			Seek Down	Tune Down	Track /File Down	Fast Backward	File Down	Fast Backward
22			LO/DX					

## **BASIC OPERATIONS**

### **3) PANEL RELEASE BUTTON (REL)**

Press this button to remove the front panel.

### **1) POWER ON/OFF BUTTON ( ⏻ )**

Press POWER button or any other button on the front of the radio (except Open/Eject) to turn the unit on. Press POWER button again to turn the unit off.

### **7) MUTE BUTTON (MUTE)**

Press the mute button momentarily to mute the audio volume. "Mute" will flash in the display. Press the mute button again to restore volume to the previous setting.

### **8) SUB-WOOFER (SUB-W)**

Press & hold the SUB-W button to turn the Sub-woofer function On. "Sub-woofer" will appear on the LCD display for 3 seconds. Press the SUB-W button again to turn off the Sub-woofer function.

**NOTE** The operation of this function is described fully on page 13.

**TIPS** The Subwoofer Level and Low Pass Filter control will only appear in the Audio Menu if the Subwoofer function is currently activated 'On'.

### **10) iX-BASS BUTTON (iX-Bass)**

Press & hold the iX-Bass button to turn on the iX-Bass function. "iX-Bass" will appear in the LCD display for 3 seconds. Press the iX-Bass button again to turn off the iX-Bass function.

**NOTE** The operation of this function is described fully on page 13.

**TIPS** The iX-Bass Boost Level control will only appear in the Audio Menu if the iX-Bass function is currently activated 'On'.

### **5) MODE BUTTON (MODE)**

Press MODE button to select a different mode of operation as indicated on the display panel. Available modes include are: Tuner, CD, I-Pod.

### **6) VOLUME UP/ DOWN BUTTON**

Use these buttons to adjust the volume up or down. When volume is adjusted, the volume level will be shown on the display panel as a number ranging from 0 (lowest) to 46 (highest).

### **18) DISPLAY (DISP)**

Briefly Press the DISPLAY/MENU button repeatedly to select the following different Display options:

Spectrum mode 1 > Spectrum mode 2 > Spectrum mode 3 > Default Display.



Default Display



True Spectrum Analyzer mode 1



True Spectrum Analyzer mode 2



True Spectrum Analyzer mode 3

### **IGNITION OFF CLOCK RECALL**

The user can recall the clock time by pressing the DISPLAY button, even when ignition is off.

# **MENU OPERATION**

## **18) MENU FUNCTION LIST (MENU)**

Press & hold DISPLAY/ MENU to access the menu. **MENU** Will appear in the display momentarily. Navigate the menu by pressing DISPLAY/ MENU button to move forward to the next option. The menu can also be navigated by using the Tuning Up or Tuning Down Button to move to the next or previous option. Once the desired option appears in the display, adjust that option by pressing the volume up / down button within 5 seconds. The following options are adjusted through this menu feature.

### **Contrast**

The contrast level of the display is set at "CONTRAST 05" by default. Press the volume up/down button to adjust the contrast level from 00 to 10.

### **Dimmer**

The dimmer feature of the display is set to "DIMMER High" by default. Press the volume up/down button to turn the dimmer to the low setting.

### **Clock Format**

This option allows selection of a 12 hour or 24 hour clock format. "CLK FORMAT 12H" is the Default setting. Press the volume up/down button to change to the 24 hour clock format.

### **Time Set**

The time on the clock will be set to 12:00 as the default. Program the current time by pressing the volume up button to adjust the minutes and pressing the volume down button to adjust the hours.

### **Local / Distance Select**

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, Press the volume up/down button until "Local" appears in the display.

### **AREA (TUNER FREQUENCY SPACING)**

This option allows the selection of the frequency spacing appropriate for your area. It is set to Europe area by default. **We do not recommend that you change this setting, as the other areas available in this feature use different frequency spacings. Therefore your unit may not tune to radio stations correctly if another area is selected.**

If you require any further advice on this feature, please contact our Customer helpline on 0871 230 1777.

### **Regional On/Off (Region)**

This option will check whether an alternative frequency is a real alternative for the current station. Region Off is displayed by default. This means that the the region identification code in the PI code is ignored.

If Region On is selected (using the volume buttons) the PI codes must be identical. For best performance, it is recommended that the region function is turned off.

**NOTE** The Regional function On/Off Setting can only be used when the "AF" function is "on"

### **Programmable Turn-on Volume (VOL PGM)**

This option allows selection of the volume level the radio will automatically assume when first turned on. "VOL PGM 12 " is the default setting. You can program the unit to turn on at any desired volume level.

To program a specific volume level for the radio to turn on at, press the volume up/down button to select the desired volume level. Within 5 seconds.

### **Beep Tone**

The beep tone feature allows the selection of an audible beep tone to be heard each time a button is pressed. "BEEP TONE On" is the default display. Press the volume up/down button to select the "BEEP TONE Off" option.

## **DUAL ZONE OPERATION**

**This unit is equipped with the advance feature “Dual Zone”. This function is useful if the user wants to select different modes of the audio output source for Front and Rear Speakers. The details of this operation are as follows:**

### **On/Off operation**

- “Off” is the default setting.
- Press & hold the “2-Zone” button on the control panel to switch between Dual Zone On or Off. The “2-Zone” icon will appear in the LCD when Dual Zone is selected

### **TO Select Front / Rear Sources**

- When 2-Zone ON is selected, briefly Press the “SEL” button repeatedly to change between the F-Zone (Front ) and the R-Zone (Rear) sources.
- When Front Zone “F-Zone” is selected, use the volume buttons to navigate through differe  
Tuner> CDP> iPod.
- When Rear Zone “R-Zone” is selected, use the volume buttons to navigate through different modes:  
Tuner> CDP> iPod are available for selection for Rear Speakers Audio Output.
- If no selection is made, the unit will return to the previous mode after 5 seconds.

### **Function of Front / Rear Sources**

- The Front Panel control buttons are defaulted to control the FRONT source's function / operation.
- When DUAL ZONE is turned “ON”, the Mode button is used to change between the Front Source & Rear Source. Press mode button repeatedly to toggle between Front and Rear Mode.
- When Rear source is selected by the Mode button, you can make changes to the volume.
- The LCD will return to displaying the front source after a short time, if no further buttons are pressed.

### **The Default Setting When Dual Zone “ON”**

- When DUAL ZONE is turned on, the audio output will be muted for about 1 second.
- The default Volume level is “12” for both Front & Rear ZONE audio output. (or the Volume Level set as VOL PGM . See page 11 for details on how to set programmable turn on volume.)
- The LCD display is defaulted to display the Front Mode.
- When Dual Zone is “ON”, it is not possible to change the Audio settings other than volume.

### **The Default Setting When Dual Zone “OFF”**

- When DUAL ZONE is turned OFF, the audio source will revert to whatever the front audio source is currently set to.

# **AUDIO OPERATION**

## **Audio Menu**

**Briefly** Press the “SEL” button to access the Audio Menu. Use the SEL button to toggle between the various available menu options and the Volume buttons to change the values of each setting.

The unit will automatically return to the previous mode 5 seconds after the last button is pressed.

### **VOLUME (Volume Level)**

- Use the volume buttons to adjust the volume Up/Down. The LCD will show the current volume level as a number between 00 (lowest) and 46 (highest).

### **SUBWOOFER (Sub-woofer Level)**

- The Subwoofer level can be adjusted from 00 to 12.

**NOTE** The Subwoofer level control is only effective when the unit is connected to an optional subwoofer.

**NOTE** The Sub-woofer level control option will only appear in the Audio Menu if the “Sub-woofer” function is activated by pressing and holding the “Sub-w” button on the control panel.

### **SUB-W LPF (Sub-woofer Low Pass Filter)**

- The Subwoofer Low Pass Filter can be adjusted to 80, 120 or 160 Hz.

### **iX-BASS (iX-Bass Level)**

- The iX Bass boost can be adjusted to Low, Mid or High setting.

**NOTE** The iX-Bass option will only appear in the Audio Menu if the function is activated by pressing and holding the “iX-Bass” button on the control panel.

### **BASS (Bass Level)**

- The Bass level can be adjusted from -6 to +6.

### **BASS -CFQ (Bass Center Frequency)**

- The Bass CFQ (Center Frequency) can be adjusted between 60, 80, 100 and 200Hz.

### **BASS-Q: (Bass Quality Factor)**

- The Bass-Q (Bass Quality Factor) can be adjusted as shown in Fig 1.

**Figure 1** shows the Bass Quality factor (Curve characteristics) of each step.

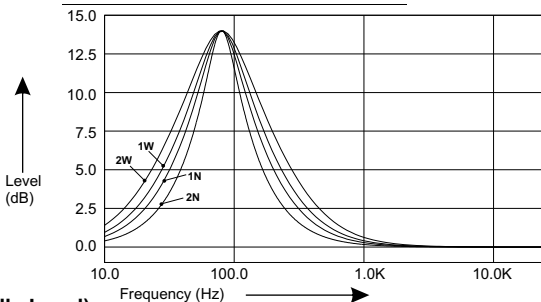


Figure 1

### **MIDDLE (Middle Level)**

- The mid-range setting can be adjusted from -6 to +6.

### **MID-CFQ (Middle Center Frequency)**

- The MID-CFQ (Middle Centre Frequency) can be adjusted between 500Hz, 1KHz, 1.5KHz and 2.5KHz.

### **MIDDLE-Q (Middle Quality Factor)**

- The Middle-Q (Middle Quality Factor) can be adjusted as shown in Fig 2.

Figure 2 shows the middle Quality factor (Curve characteristics) of each step.

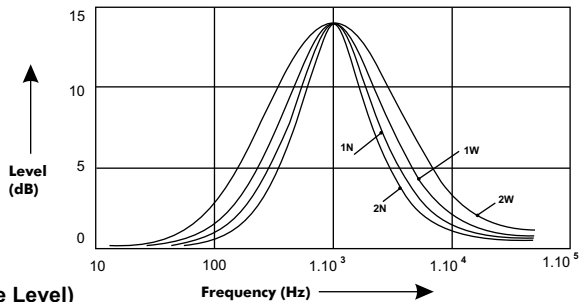


Figure 2

### **TREBLE (Treble Level)**

- The Treble level can be adjusted from -6 to +6.

### **TRE-CFQ (Treble Center Frequency)**

- The TRE-CFQ (Treble Centre Frequency) can be adjusted between 10KHz, 12.5KHz, 15KHz and 17.5KHz.

### **BALANCE**

- The Balance can be adjusted between the right and left channels. R12 is the maximum bias to the right hand speakers and L12 is the maximum bias to the left hand speakers. C00 means that the balance is centralized.

### **FADER**

- The Fader control allows the sound level to be adjusted between the front and rear speakers. The display will show R12 when the sound level is fully adjusted to the rear speakers and F12 when fully adjusted to the front speakers. C00 means that the sound level is equally divided between both front and rear speakers.

## **TUNER OPERATION**

### **19) BAND BUTTON (BAND/SEARCH)**

Press BAND to change between FM band and MW band.

### **20-21) TUNING UP/DOWN BUTTON (◀▶)**

#### Manual Tuning

Press and hold the tuning buttons to enter manual tuning mode. This allows fine tuning of the radio, one frequency spacing at a time.

The unit will automatically return to auto tuning mode after a few seconds.

#### Auto Seek Tuning

Press the Up Tuning or Down Tuning button briefly to move to next station automatically.

### **12-17) PRESET STATIONS BUTTONS**

The six numbered preset buttons store and recall stations for each band.

#### **Store a Station**

Select a band (if needed), then tune to a desired station. Press and hold the preset button that you wish to store the station under. The preset number will appear in the display.

#### **Recall a Station**

Select a band (if needed). Press a preset button to select the corresponding stored station.

### **11) AUTOMATICALLY STORE / PRESET SCAN (AS/PS)**

#### **Automatically Store**

Press and hold the AS/PS button. The unit will scan and store the first 6 strongest radio stations in the preset memory. There are 6 preset memory positions for each band.

#### **Preset Scan**

Scan stations stored in the current band. Select a band (if needed). Press AS/PS button briefly. The unit will pause for ten seconds at each preset station. Press AS/PS button again to stop scanning when the desired station is reached.

#### **STEREO**

The unit will automatically pick up a stereo signal, when available. When in stereo mode, the ST icon appears in the display. When no stereo signal is available, the unit will automatically revert to mono operation, and no icon will be displayed.

### **22) LOCAL / DISTANCE SELECTOR**

Briefly press LO/DX button to select between Local or Distant mode. 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, press this button until the "LOC" icon appears in the display.

# **RDS OPERATION**

## **RDS functions**

The unit is equipped with the following RDS function:

- AF Alternative Frequencies
- CT Clock Time
- EON Enhanced other Network
- PI Program identifications
- PS Program service name
- PTY Program Type
- REG Regional Change
- TA Traffic Announcement
- TP Traffic program

### **1. AF Function**

Briefly press the AF button to toggle between AF ON and AF OFF mode. When AF mode is ON, and the current radio station reception is becoming weak, the unit will automatically switch to a different frequency on the same network with stronger signal.

Note: Factory Default setting is "AF ON"

### **2. TA Function**

Briefly press the TA button to activate Traffic Announcement mode. TA ON will show in the display.

When TA mode is selected, the unit will automatically switch to a station broadcasting a traffic announcement, regardless of the current mode. When a traffic announcement starts, "TRAFFIC INFO" will show on the LCD. The traffic announcement can be cancelled by pressing the TA button at any stage.

In TA mode, if the TP signal is lost for more than 60 seconds, an audible "beep" will be heard and the display will show "Lost TP, TA". The unit will then search for another station with TA. When the TP icon is not lit up for 60 seconds, TA beep Alarm tone is heard and the LCD will show "Lost TP, TA". TA seek will activate and search for another TA station.

### **3. PTY Function**

Briefly press the PTY button to enter PTY select mode. The PTY icon will show in the display. Use the Volume Up/Down buttons to select the desired programme type.

Once the desired programme type is found, press either SEL or Tun Up/Down to search for a station of that particular type. PTY SEEK will be shown in the display.

If no station can be found of the type selected, the display will show No match PTY and return to the previous mode.

6 favourite PTY stations can be stored in memory positions 1-6.

After selecting a PTY station to store, press and hold the desired preset button.

To recall a stored PTY station, enter PTY mode, then briefly press the preset button corresponding to the stored stations.

<b>Music Group</b>	<b>Speech Group</b>
<b>POP , ROCK</b>	<b>NEWS, AFFAIRS, INFO</b>
<b>EASY, LIGHT</b>	<b>SPORT, EDUCATE, DRAMA</b>
<b>CLASSICS, OTHER</b>	<b>CULTURE, SCIENCE, VARIED</b>
<b>JAZZ, COUNTRY</b>	<b>WEATHER, FINANCE, CHILDREN</b>
<b>NATION, OLDIES</b>	<b>SOCIAL, RELIGION, PHONE IN</b>
<b>FOLK</b>	<b>TRAVEL, LEISURE, DOCUMENT</b>

Note: PTY preset memory is defaulted to the following until changed by the user.

M1/News, M2/Information, M3/Pop Music, M4/Sports, M5/Classics, M6/Finance.



## **CD /MP3/WMA OPERATION**

### **INSERT AND EJECT CD**

Open the motorised front panel as described on page 6 of this instruction book. Insert a CD into the CD slot and the disc will begin to play. Press the Eject button to stop CD play and eject the CD. The unit does not have to be turned on to eject the CD.

### **CD-DA OPERATION**

#### **12) PAUSE BUTTON**

Press the pause button to pause disc play. Press the pause button again to resume disc Play.

#### **20-21) TRACK SELECT**

Press the Up Tuning or Down Tuning button ( **⏮ ⏭** ) briefly to advance to the next track on the CD, The selected track number will appear on the display. Press and hold the Up Tuning or Down Tuning button ( **⏮ ⏭** ) for more than one second to fast forward or fast reverse through the disc. CD playback will resume when the button is released.

#### **14) REPEAT BUTTON (RPT)**

Press REPEAT BUTTON (RPT) during disc play to continuously repeat the track. Press REPEAT BUTTON (RPT) to return to normal disc playback.

#### **15) RANDOM BUTTON (RDM)**

Press RANDOM BUTTON (RDM) during disc play to play all tracks on a CD in a random order. Press RANDOM BUTTON (RDM) to resume normal playback.

#### **13) INTRO SCAN BUTTON (INT)**

During disc play, press INTRO SCAN BUTTON (INT) to play the first 10 seconds of each track on the disc. When the desired track is reached, press INTRO SCAN BUTTON (INT) again to end the scan and play the selected track.

### **MP3/WMA OPERATION**

This unit can play MP3/WMA directly from files contained on a CD-R/RW.

#### ***Notes on Disc Play***

Depending on the media type and recording method, some CD-R/RW's may be incompatible with this unit. The disc types supported by this unit are CD-ROM, CD-R and CD-RW. When using CD-RW, use full format rather than quick format to prevent malfunction.

#### ***Notes on MP3/WMA Play***

This unit can play MP3 (MPEG1, 2, 2.5 Audio Layer 3). However, the MP3 recording media and accepted formats are limited. When writing MP3/WMA, pay attention to the following restrictions.

#### **Acceptable Media Formats**

The following formats are acceptable for the media used in this unit. The maximum number of characters used for file name including the delimiter (".") and three-character extension are indicated in (brackets).

- ISO 9660 Level 1 (11 characters)
- ISO 9660 Level 2 (31 characters)
- Joliet (31 characters)
- Romeo (31 characters)

Up to 200 characters can be displayed in the long file name format. For a list of available characters, see the instruction manual of the writing software and the section “Entering File and Folder Names” below. The media reproducible on this unit has the following limitations:

- Maximum number of nested folders: 8
- Maximum number of files per disc: 999
- Maximum number of files per media device: 2000
- Maximum number of folders per disc: 255

MP3/WMA written in formats other than the above may not be successfully played and their file names or folder names may not be properly displayed.

### **MP3/WMA Encoder and CD Writer Settings**

Use the following settings when compressing audio data in MP3 data with the MP3 encoder.

- Transfer bit rate : 32- 320 kbps
- Sampling frequency : 32,44.1,48 kHz(WMA) 16,22.05,24,32,44.1, 48kHz (MP3)

When using a CD writer to record MP3/WMA up to the maximum disc capacity, disable additional writing.

### **ID3 Tag**

This unit supports ID3 tag versions 1.0 and 1.1.

The unit also supports CD-TEXT encoded discs for Album, Track and Artist Title information.

### **File and Folder Names**

Names using the code list characters are the only file names and folder names that can be entered and displayed. Using any other character will cause the file and folder names to be displayed incorrectly. The unit recognizes and plays only files with the MP3/WMA extension.

***Note*** **A file name entered with characters not on the code list may not play correctly.**

When a disc containing MP3/WMA files is loaded, the unit checks all data. If the disc contains many folders or non-MP3/WMA files, Play back will be delayed, it may take time for the unit to move to the next file, and searches may not be performed smoothly. Loading such a disc may produce loud noise and cause damage to the speakers. **Do not attempt to play a disc containing a non-MP3/WMA file with the MP3/WMA extension or a disc containing non MP3/WMA files.**

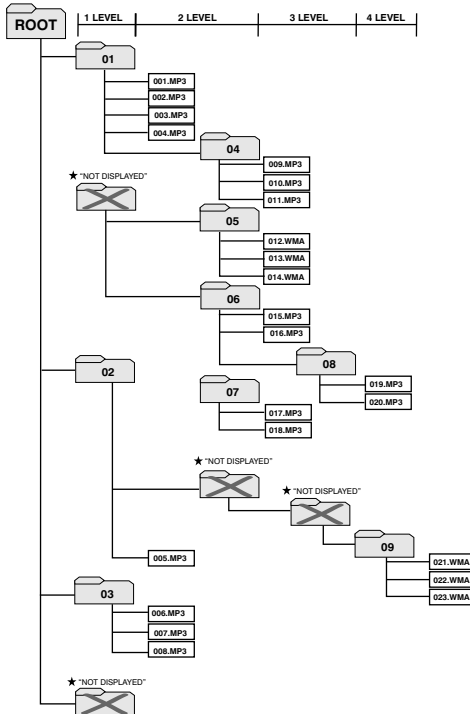
### **Bit Rates**

The unit supports bit rates from 32 - 320 kbps.

## Files Playing Order

When playing MP3/WMA files, searching for folders, files etc., the order in which they play is determined by the order in which they were written to disc by the PC.

- An outline of a disc containing MP3/WMA files is shown below. Subfolders are shown within the current folder.



- The equipment assigns folder numbers. The user can not assign folder numbers.
- ★ It is not possible to check folders that do not include MP3/WMA files. (These folders will be skipped without displaying the folder number and name)

## FILE/FOLDER PLAY

There are three different play methods as following:

### File/Folder Intro play:

- Press and hold INT button to hear the first 10 seconds of all of the files in the current folder. To resume normal playback, press and hold the INT button.
- Briefly press the INT button to hear the first 10 seconds of all files on the currently loaded disc. To resume normal playback, briefly press INT button.

**File/Folder Repeat play :**

- Press and hold the RPT button to repeat all files in the current folder. To resume normal playback, press and hold the RPT button.
- Briefly press the RPT button to repeat the currently playing file. To resume normal playback, briefly press the RPT button.

**File/Folder Random play:**

- Press and hold the RDM button to hear a random selection of files from the current folder. To resume normal playback, press and hold the RDM button.
- Briefly press the RDM button to hear a random selection of files from the entire disc currently being played. To resume normal playback, briefly press the RDM button.

**Folder Up / Down Play**

- Briefly press Folder Down button to access the previous folder.
- Briefly press Folder Up button to advance to the next folder.

**MP3/WMA File or Folder Search****Folder / Files Navigate Searching**

Press the BAND button. The LCD will display "Navigate". Use the Volume Up/Down buttons to navigate through all the folders & sub-folders on the disc. The folder names will be displayed on the LCD.

Briefly press the SEL button to select a folder, then press SEL again to begin playback of the first track in that folder.






Alternatively, press and hold the SEL button on any given folder to begin direct playback.

During navigation search, press the AS/PS button to move back to the last upper level of a folder.

**ID3 INFORMATION DISPLAY**

If a disc containing files with ID3 tagging is being played, information such as album title, artist etc. can be displayed in the LCD and will scroll during playback. Press AS/PS to manually view the different ID3 tag information.

**The following icons are used in the LCD display to show the current ID3 information being viewed:**

ICON	DESCRIPTION
	FOLDER ICON
	FILE ICON
	TRACK ICON
	ARTIST ICON
	ALBUM ICON

# **IPod OPERATION**

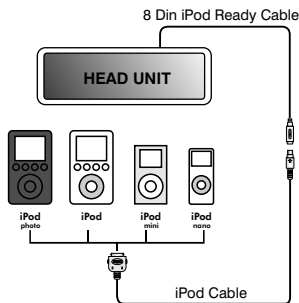
This unit allows for I-pod devices to be connected and controlled by the buttons on the front panel. The I-pod track information can also be viewed on the LCD of this unit.

## **iPod Compatibility Chart**

This unit supports the following I-pod devices:

iPod 1G	Not Supported
iPod 2G	Not Supported
iPod 3G	Firmware Version 2.2
iPod Mini	All versions
iPod 4G	All versions
iPod Photo	All versions
iPod Nano	All versions
iPod 5G(Video)	All versions

## **Connecting an iPod to this unit**



### **NOTE**


This unit is **NOT ABLE** to play video files. Any video files contained in a connected I-pod would be ignored by this unit.

## **Turning iPod Power On and Off**

### **IMPORTANT NOTE**

**Remember to disconnect the I-pod from this unit when not in use. Never leave your I-pod inside the vehicle when unattended.** The iPod power turns on automatically as soon as it is connected to the 30 Pin Connector and as long as the vehicle's ignition is turned ON. The iPod power can be turned OFF by removing the iPod from the 30 Pin Connector or if the vehicle's ignition is turned OFF. Under this condition the iPod will go into pause mode initially and then into sleep mode about 2 minutes later.


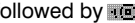
**NOTE** While the iPod is connected, the power cannot be turned on or off from the iPod itself.

**Tips** “  ” to disconnect will be shown in the iPod's display while it is connected to the unit .

## **iPod Battery Charging**

While connected to the unit, the iPod will automatically start re-charging as long as the vehicle's ignition key is turn to ACC or ON.

## **Switch to iPod Mode**

**When the Head unit is powered on and the iPod is connected to the 30 pin connector, press the mode button to change to iPod mode.** The unit will display  for a while followed by . When the files from the I-pod have been read, playback will begin automatically. Use the Mode button to stop playback from the I-pod and switch to CD or Tuner mode.

### **iPod information Display**

This unit can display the Song, Artist, Album name and Elapsed time on the LCD display. This information can be manually displayed by pressing the AS/PS button during music file playback.

### **I-pod search mode**

During iPod playback mode, press the BAND button to enter the iPod Searching Mode. Pressing BAND button repeatedly will allow the following categories to be searched for:

- 1) **Playlist**
- 2) **Artist**
- 3) **Album**
- 4) **Song**
- 5) **Genre**

Press the SEL/ button to select the search category, then use the volume buttons to navigate through the album, artist, song etc.

Press the SEL button to select the desired album or song. The display will show "Searching" whilst the unit is accessing the desired song.

Press AS/PS to cancel the current search.

### **Song Select**

Briefly press the Track UP (>>) or Track DOWN (<<) buttons to skip to the next or previous song. Press and Hold Track UP (>>) or Track DOWN (<<) buttons to fast forward or fast reverse through the current track. Release the buttons to resume normal playback.

### **Song Repeat / Repeat All play :**

Press and hold the RPT button during I-pod playback to repeat all songs in the current album. To resume normal playback from the I-pod, press and hold RPT button.

Briefly press the RPT button to repeat the song currently playing. The song will continue to be repeated until the function is cancelled by pressing the RPT button again.

### **Shuffle Function**

Press and hold the RDM button during I-pod playback to activate Shuffle Album function. This allows random playback of albums contained in the I-pod.  
To resume normal playback, press and hold the RDM button.

Press the RDM button briefly to activate the Shuffle Play function. This allows random playback of all songs contained in the I-pod. To resume normal playback, press the RDM button again.

## NOTE ON DISCS

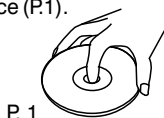
### MOISTURE CONDENSATION

In damp or humid conditions, moisture may condense on the lense inside the unit. Should this occur, the unit will not operate properly. To restore correct operation, please remove the CD and allow 1 hour for any moisture to evaporate.

### NOTES ON CDS

1. A dirty or defective disc may cause sound dropouts while playing. To enjoy optimum sound, handle the disc as follows.

Handle the disc by its edge. To keep the disc clean, do not touch the surface (P.1).



2. Do not stick paper or tape on the disc (P.2).



3. Do not expose the discs to direct sunlight or heat sources such as hot air-ducts, or leave them in a car parked in direct sunlight where there can be a considerable rise in temperature inside the car (P.3).



4. Before playing, clean the discs with an optional cleaning cloth. Wipe each disc from the centre out (P.4).



5. Do not use solvents such as benzene, thinners, commercially available cleaners, or antistatic spray intended for analog discs.

### NOTES ON DISCS

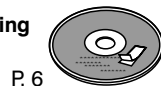
If you use the discs such as those shown below, the sticky residue can cause the CD to stop spinning and may cause malfunction or ruin your discs.

Do not use second-hand or rental CDs that have a sticky residue on the surface (for example, from peeled-off stickers or from ink, or glue leaking from under the stickers).



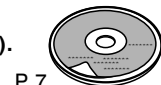
Do not use rental CDs with old labels that are beginning to peel off.

**Stickers that are beginning to peel away, leaving a sticky residue (P.6).**



Do not use your CDs with labels or stickers attached.

**Labels are attached (P.7).**



**Do Not Use Special Shape CDs**

Use of special shape CDs may cause the unit to malfunction.(P.8).



Be sure to use CDs with these markings



Only for this unit.

CD-Rs and CD-RWs which have not undergone finalization process cannot be played. (For more information on finalization processing, refer to the manual for your CD-R/CD-RW writing software or CD-R/CD-RW recorder.) Additionally, depending on the recording status, it may prove impossible to play certain CDs recorded on CD-R or CD-RW.

## **SPECIFICATIONS**

### **CD PLAYER**

System	Compact disc audio system
Usable disc	Compact disc
Sampling frequency	44.1KHz
No of quantization bits	1bit
Frequency	5-20,000Hz
Number of channels	2 stereo
S/N Ratio	70dB

### **RADIO SECTION**

#### **FM**

Frequency Range	87.5-108 Mhz
Intermediate Frequency	10.7 MHz
Usable Sensitivity	Better than 15dB at S/N 30 dB
Stereo Separation	25 dB at 1KHz
S/N Ratio	50 dB

#### **MW**

Frequency Range	522-1620 KHz
Intermediate Frequency	450KHz
Usable Sensitivity	Better than 45dB
S/N Ratio	40 dB

### **GENERAL**

Power Supply	DC 11 -14V, Negative Ground
Speaker impedance	4 ohms
Power Output	4 x 40W
Chassis Dimensions (in mm)	178W X 175D X 50H
Weight	1.8Kg

#### **NOTE:**

**Specifications are subject to change without prior notice.**



## **TROUBLE SHOOTING**

Before going through the check list, first refer to the back to the connection and operating procedures. Most problems that you may encounter with your unit are covered in the list below. Should any problems persist after you have checked this list, please contact our Customer Helpline

<b>Symptom</b>	<b>Cause</b>	<b>Solution</b>
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 try again.
	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 set to 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 operating incorrectly.	Press the RESET button. Front panel is not making good contact with the connections pins on the main unit.
Sound skips.	The installation angle is more than 30 degrees.	Adjust the installation angle to less 30 degrees.
	The disc is extremely dirty or defective.	Clean the compact disc, or 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 1	Mechanism Error	Press the reset button If the error is still evident after pressing the reset button, consult our Customer helpline.
ERROR 2	Servo Error	Press the reset button If the error is still evident after pressing the reset button, consult our Customer helpline.



**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)**