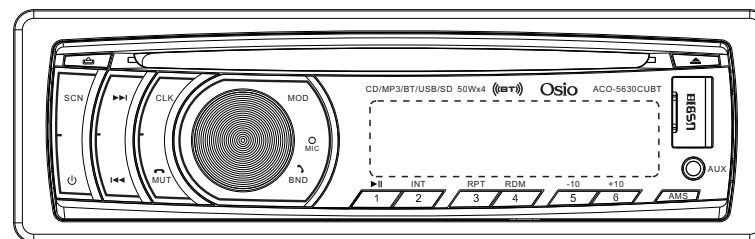


Osio

ACO-5630CUBT

INSTRUCTION MANUAL



CAR CD/MP3 PLAYER / RECEIVER
USB / SD / MMC / SLOT

1. DOS (Dynamic Open Screen)

The Dynamic Open Screen (Motion effect) when unit power on. Press any key to stop and return to the current mode.

DEMO ON:

Long press SEL key (change to SEL mode), then short press SEL to select Demo ON/OFF, rotate Volume knob to set Demo ON, Then press SEL to confirm. The Dynamic OpenScreen display will repeatedly. DEMO ON mode used to demonstration. All buttons are not workable except "SEL" button.

DEMO OFF:

Press SEL key, rotate Volume knob to set Demo OFF, press SEL to confirm, then back to default status.

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INSTALLATION

PRECAUTIONS

Choose the mounting location where the unit will not interfere with the normal driving function of the driver.

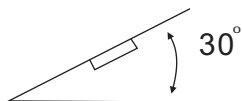
Before finally installing the unit, connect the wiring temporarily and make sure it is all connected up properly and the unit and the system work properly.

Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.

Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.

Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop. Like an emergency stop.

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 the heater, or where it would be subject to dust, dirt or excessive vibration. Do not expose this equipment to rain or moisture.

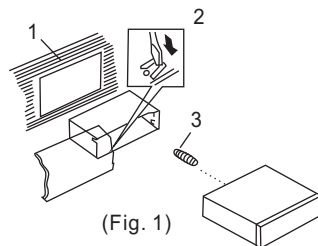
DIN FRONT-MOUNT (Method A)

Installing the unit

1. Dashboard

2. Holder

After inserting the holder into the dashboard, select the appropriate tab according to the thickness of the dashboard material and bend them inwards to secure the holder in (Fig. 1) place.



3. Screw

TROUBLE SHOOTING

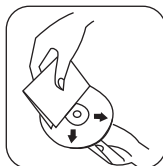
Before going through the check list, check wiring connection. If any of the problems persist after checklist has been made, consult your nearest service dealer

Symptom	Causes	Solution
No Power	The car ignition key not been switched on	If the power supply is properly connected to the car accessory terminal, switch the ignition key to ACC
	The fuse is blown	Replace a new fuse
CD Cannot Be Loaded or Ejected	A CD is already inside the player slot	Remove the CD from the player and insert the new one
	Inserting the CD in reverse direction	Insert the CD with the label facing up
	The CD is extremely dirty or defected	Clean the CD or try to play a new one
	Temperature inside the car is too high	Cool off until the ambient temperature return to normal
	Condensation	Leave the player off for an hour or so and try again
No Sound	Volume is at minimum	Adjust volume to desired level
	Wiring is not properly connected	Check wiring connection
Sound Skipping	The installation angle is more than 30°	Adjust the installation angle to less than 30°
	CD is extremely dirty or Defected	Clean the CD or try to play a new one
The Operation Keys Do Not Work	The built-in microcomputer is not operating properly due to Interference	Press the RESET button or reinstall the front panel properly
The Radio or Automatic Selection Does Not Work	The antenna cable is not connected correctly	Connect the antenna cable correctly
	The signals are too weak	Select the station manually

BEFORE PLAYING DISCS

Cleaning the CD

Before playing a CD, wipe it off with a clean, dust-free cleaning cloth. Wipe the disc in the direction of the arrow.

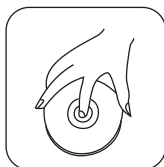


Always insert the CD with the label side facing upwards. If the CD is inserted with the printed side facing downwards, the device may be damaged.



Note: If there is already a CD in the CD slot, do not try to insert a second CD. This may damage the device.

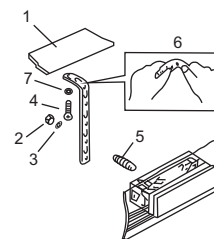
Always hold CDs by the edge. In order to keep the CD clean do not touch the surface. Pull out the CD as follows.



Do not attach any sticker or adhesive tape on the CD.
Do not expose the CD to direct sunlight or sources of heating.
Do not leave CDs in a car if it parked in direct sunlight as that will lead to a considerable rise in the temperature inside the car.

Note: Do not use any solvents such as petrol or thinning agents. Commercially available cleaning substances of antistatic spray will damage the device.

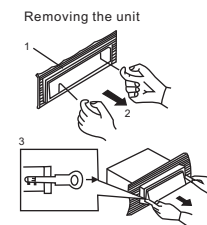
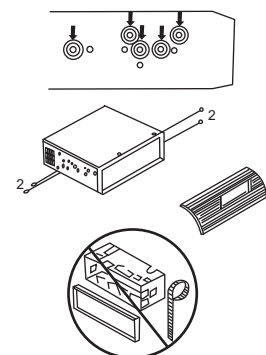
INSTALLATION



(Fig. 2)

1. Dashboard
2. Nut (5mm)
3. Spring Washer
4. Screw (5 x 25mm)
5. Screw
6. Strap
7. Plain Washer

Be sure to use the strap to secure the back of the unit in place. The strap can be bent by hand to the desired angle.



(Fig. 3)

1. Frame
2. Insert fingers into the groove in the front of frame and pull out to remove the frame. (When reattaching the frame, point the side with a groove downwards and attach it.)
3. Lever
Insert the levers supplied with the unit into the grooves at both sides of the unit and shown in figure until they click. Pulling the levers makes possible to remove the unit from the dashboard.

Fastening the unit to the factory radio mounting bracket:

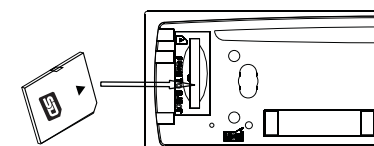
1. Select a position where the screw holes of the bracket and the screw holes of the main unit become aligned (are fitted), and tighten the screws at 2 places on each side. Use either truss screws (5 x 5mm) or flush surface screws (4 x 5mm)
2. Screw
3. Dashboard or Console

DIN REAR-MOUNT (Method B)

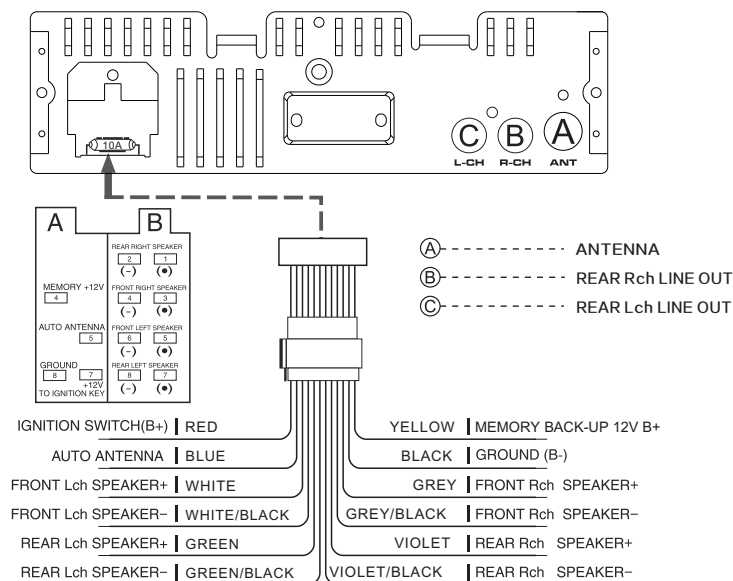
Installation using the screw holes on the sides of the unit

INPUT THE SD CARD

The SD oblique angle keeps rightward exposure, put into the SD slot and press it again to eject.



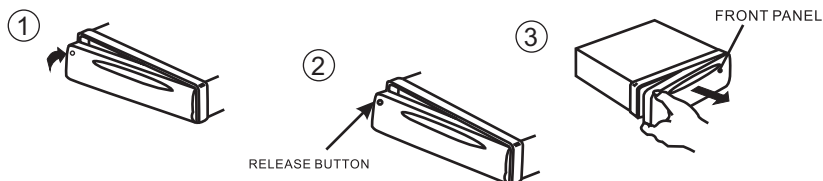
ADDITIONAL INFORMATION



HOW TO INSTALL AND REMOVE THE FRONT PANEL

INSTALLING THE FRONT PANEL

To install the front panel, insert the panel into the housing and make sure the panel is properly installed, otherwise, abnormalities occurs on the display or some keys will not function properly



SPECIFICATION

General

Power Supply Requirements:	DC 14.4V "—", Negative Ground
Load Impedance:	4 ohms
Maximum Output Power:	50W x 4 (CH)

Chassis Dimensions:	178 x 163 x 50mm (W x D x H)
Current Drain:	10A

Tone Controls

Bass (at 100Hz):	+10dB / -10dB
Treble (at 10K):	+10dB / -10dB

CD Player

Signal to Noise Ratio:	More than 60dB
Channel Separation:	More than 60dB
Frequency Response:	20Hz - 20KHz

FM Radio

Frequency Coverage (MHz):	87.5 - 108MHz
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IF :	10.7MHz
Sensitivity (S/N-30dB):	12dBu
Stereo Separation:	>30dB

MP3/WMA overview

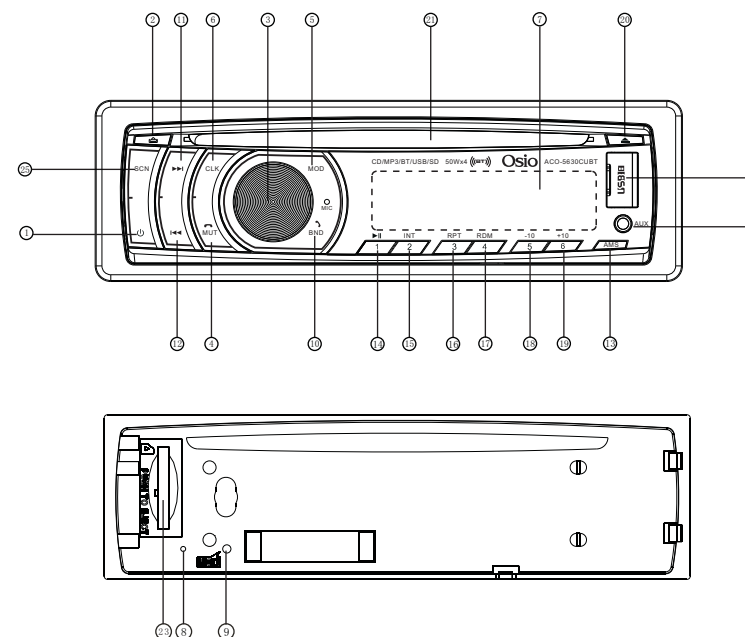
- MP3 is short for MPEG Audio Layer 3 and refers to an audio compression technology standard.
- This product allows playback of MP3 files on CD-ROM, CD-R or CD-RW discs.
- The unit can read MP3 files written in the format compliant with ISO 9660. However it does not support the MP3 data written by the method of packet write.
- The unit can not read an MP3 file that has a file extension other than “.mp3”
- If you play a non- MP3 file that has the “.mp3” extension, you may hear some noise.
- In this manual, we refer to what are called “MP3 file” and “ folder” in PC terminology as “ track ” and “ album ”, respectively.
- Maximum number of directory level is 8, including the root directory. Maximum number of files and folders per disc is 256.
- The unit may not play tracks in the order of Track numbers.
- The unit plays only the audio tracks if a disc contains both audio tracks and MP3 files.
- When playing a disc of 8 kbps or “VBR”, the elapsed playing time in the display window will not be correct and also the intro play may not function properly.
“ VBR ”:Variable Bit Rate.
- The unit supports the playback of WMA files. The playback of ID3 tags for WMA format is not guaranteed, it depends on versions and availability of Cyrillic alphabet.
- WMA (Windows Media Audio) -music data compression format, created by Microsoft Corporation. This format uses coding algorithm for compression of initial audio-record, greatly decreasing the file size, but, saving the good sound quality even when the bit rate is low (for example, 64 Kbit/s).
- Remember that the unit may not play the tracks in order they are written on disc.



Notes on creating your own CD-R or CD-RW containing MP3 files:

- To enjoy high quality sound, we recommend converting to MP3 files with a sampling frequency of 44.1 kHz and a fixed bit rate of 128 kbps.
- DO NOT store more than 256 MP3 files per disc.
- For ISO 9660 - compliant format, the maximum allowable depth of nested folders is 8, including the root directory (folder).
- When CD-R disc is used, playback is possible only for discs, which have been finalized.
- Make sure that when MP3 CD-R or CD-RW is burned that it is formatted as a data disc and NOT as an audio disc.
- You should not write non-MP3 files or unneeded folders along with MP3 files on the disc otherwise it takes a long time until the unit starts to play MP3 files.
- With some CD-R or CD-RW media, data may not be properly written depending on its manufacturing quality. In this case, data may not be reproduced correctly. High quality CD-R or CD-RW disc is recommended.
- Up to 16 characters are displayed for the name of an Album or a Track. ID3TAG version 1.x is required.
- Note that the unit may not play Tracks in the order that you wrote them to the disc.

GENERAL OPERATIONS

FRONT PANEL LAYOUT



- | | |
|---|------------------------------------|
| 1. Power Button | 14. Play / Pause & Preset Button 1 |
| 2. Release Button | 15. Intro & Preset Button 2 |
| 3. Volume/ Sel Button | 16. Repeat & Preset Button 3 |
| 4. Mute /  Button | 17. Random & Preset Button 4 |
| 5. Mode switch | 18. Preset Button 5 |
| 6. Display Button | 19. Preset Button 6 |
| 7. LCD Display | 20. Eject knob |
| 8. Flashing LED | 21. CD Slot |
| 9. Reset Button | 22. USB connector |
| 10. Band/  switch/ID3 select | 23. SD/MMC Slot |
| 11. Tune Seek&Track forward Button | 24. AUX IN JACK |
| 12. Tune Seek&Track reverse Button | 25. SCN Button |
| 13. Automatically memory storing | |

GENERAL OPERATIONS

Power ON/OFF

Press any button to turn the unit on. Press and hold POWER button to turn off the unit.

Note: After the unit is off, the volume level and radio current settings will be memorized, and when you turn the unit on it will resume the stored status, which you set.

FRONT PANEL RELEASE

Press REL button (2) to detach the removable front panel

SOUND ADJUSTMENT

Turn on (3) can adjust the desired volume quality.

A). Press SEL button (3) will change in the following order.
Option:



Volume control/select

Rotating this knob, you can adjust VOL/BASS/TREB/BAL/FAD . To select the functions, press the VOL knob shortly until the desired functions are shown on the display.

Increase or decrease the volume by turn the VOL knob right or left. These buttons can be used to adjust the BASS, TREBLE, BALANCE and FADER.

BASS

Press VOL/SEL button(3) one time. Adjust bass level by using VOL/SEL(3)Knob.

TREBLE

Press VOL/SEL button(3) two times. Adjust treble level by using VOL/SEL(3) Knob

BALANCE

Press VOL/SEL button(3) three times. Adjust sound balance between left and right speakers by using VOL/SEL(3)Knob.

FADER

Press SEL button(3) four times. Adjust sound balance between front and rear speakers by using VOL/SEL(3)Knob.

RDS(Radio Data System)operation

AF : Alternative Frequencies

- Setting RDS Mode Long press SEL key, select AF and TA ON, AF flashing on display
TA appears on display.

AF / REG

AF

- AF / REG key directs the activation of AF SEARCH.
- AF indicator is displayed when AF is ON, AF search is activated when reception is bad.
- During FM MODE, when AF is ON, SEEK, SCAN, AUTO, MEMORY function can only receive and save RDS program. However, when Italy option is in use, regardless of RDS, programs that satisfy SD LEVEL Can be received and saved.

INDICATOR	CONDITIONS
AF ON	AF ON MODE, RDS information is received.
AF OFF	AF OFF MODE
AF FLASHING	AF ON MODE, RDS information is not received.

REGION

- AF MODE is converted to REGION ON / OFF MODE when SEL is pressed for longer 3sec.
- ON : PI CODE is checked when AF CHECK in progress
- OFF : PI CODE and COVERAGE AREA is not checked when AF CHECK in progress.

PTY

RADIO MODE

- Press SEL key, PTY flashing on display when select PTY. If there are no keys entered for 2seconds, previously selected PTY is searched. During 1LOOP, if desired PTY is not found, NO PTY is displayed.
- 2 program types are SPEECH and MUSIC.
By pressing PTY once, MUSIC is entered. When PTY is pressed the second time, SPEECH is entered.
M1~M6 keys can be used to select the desired program type.

TA

TA button is operated as follows:

- Press SEL enter TA, TA is turned ON / OFF and TA indicator is displayed.
When traffic announcement is transmitted, regardless of the mode, traffic announcement is received.

If VOLUME LEVEL is below 20, VOLUME LEVEL is raised to 20, and returns to its previous mode and volume level when the traffic announcement is over.

If volume is adjusted during traffic announcement, only the previous volume is valid.

- When TA is on, SEEK, SCAN, AUTO MEMORY function can be received or saved only when traffic program identification code has been received.
- When TA is ON, traffic program identification code is not received during specified time.

TAALARM : NO TA / TP is displayed and alarm is set off.

TA SEEK : TA SEEK is activated.

Attention : If AF / PTY / TA buttons on front panel, press related button to select "RDS" function.

BLUETOOTH

1. Pairing connect.

Turn on car unit, put your mobile near the unit, activate your mobile bluetooth function. Soon the phone will find the new bluetooth device "CAR AUDIO". Input the pairing password "8888" and click OK. The phone will prompt the matching successful. When the pairing connect is successful, on the LCD, it shows BT ON, and the bluetooth logo "♻" will stop blinking. Then you may perform the bluetooth operation.

REMARK: depend on bluetooth mobile, the bluetooth system support "HSP" "HFP" "A2DP" and AVRCP bluetooth profile.

2. Handsfree phone service

If your mobile phone have matched with the unit, you can dial calls out through your mobile phone. It will turn to unit automatically when calling come in and the calling phone number will indicate on the LCD screen.

- Press the "BAND" button shortly to accept the call. Then you can talk with the other party through the mic on the panel.
- Press "MUTE" button shortly to reject the call when calling come in.
- Press "MUTE" button shortly to hang up after you finish the talk.

3. Advance Audio distributing profile(A2DP) playing.

Through mobile and unit A2DP connected, press "MODE" and turn to A2DP mode at the same time, the music playing in mobile can turn to the unit audio system play. "A2DP" will display on LCD.

- Press button "◀▶" and "▶▶" in the panel can select the music track.
- Press "⏸" button shortly to pause the music playing.
- Press "BAND" (mode) longly to temporarily disconnect the bluetooth.
- Press "BAND" (mode) button longly again to reconnect the bluetooth.

4. Phone number book.

This bluetooth system can automatically store incoming call numbers, up to 10 phone numbers.

- Press "MUTE" (mode) button longly to enter the phone number book and press VOL button to look up the phone number.
- Press "BAND" button once can call out you desired phone number.

5. Interrupt bluetooth connection/reconnection.

Pressing the "BAND" button shortly to interrupt the bluetooth connection when you are talking a call and the voice can turn to mobile speaker.

Press "BAND" button again to reconnection.

NOTE: Different mobile phone have different responses. We do not guarantee all the operation of connectable devices.

6. How to delete stored phone number?

The unit can store ten number of missed, rejected and ANS separately, and the first number will auto deleted when the 11th number calling

7. How to use "RECEIVED" "MISSED" "REJECTED" "MANU ANS/AUTO ANS" Functions.

Press "MUTE" for 3 seconds to enter into "RECEIVED" "MISSED" "REJECTED" "MANU ANS/AUTO ANS". Turn VOL button for choosing the telephone number.

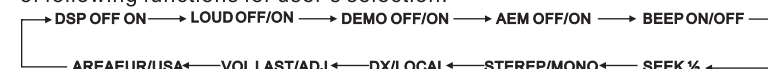
GENERAL OPERATIONS

MUTE

Press MUTE button (4) to mute down the sound. Press it again to release this mode and recover previous volume level.

OTHERS ADJUSTMENT

Press VOL/SEL button (3) for several seconds, it is activated as cyclical mode of following functions for user's selection.



Press and hold this button will go to different modes:

Press and hold will go to DSP mode automatically:

by turning this function button to choose Flat, CLASSIC, Pop and Rock. by press the function button to select your favorite DSP mode.

When in the DSP mode, press the function button once will to ESP mode:

by turning the function button to choose 12 seconds or 45 seconds ESP.

by press the function button to select your desire ESP seconds.

When in the DSP mode, press the function button twice will go to BEEP mode

(the key pad tone) by turning the function button to choose on or off by press the function button to select on or off.

VOL LAST/ADJUST

This function allows to set the volume level of the unit after it was turned off and then turned on again. Choose VOL LAST if you want the volume level to be the same as it was before turning off.

VOL ADJUST allows to choose volume level.

SEEK MODE

SEEK 1: When SEEK 1 mode is activated, AUTO SEEK SCAN is stopped when station is detected even user still push SEEK button.

SEEK 2: Auto SEEK SCAN is not stopped even if station is detected if user pushes SEEK button. When releases SEEK button, then stop when station is detected.

GENERAL OPERATIONS

SELECT MODE

By pressing this button(5) to go to different function mode:

- Tuner (radio)
- CD (MP3 CD)
 - to go to this mode must be have a CD in.
- Memory Card
 - to go to this mode must be have a Memory Card in.
- USB
 - to go to this mode USB device must be connected.
- AUX in put

DISPLAY

Press DISP button (6) to operate as the conversion of each display mode as follow:

- Time is displayed for 5sec when DISP key is pressed, and it returns to its previous display (Folder, File name...) unless DISP key is pressed again.
- 3) From the clock mode, when DISP Key is pressed for longer than 1sec, clock mode switches to clock Adjusting mode and the clock display begins flashing. At this time clock can be changed by pressing (+/-) , or the ENCODER VOLUME.

LIQUID CRYSTAL DISPLAY

Exhibit current frequency and activated functions on the display (7).

FLASHING LED

When ACC off ,take out the front panel from main unit that the LED (8) will be flashing.

CD/SD/MMC/USB OPERATIONS

2. Searching Track:

- Press AMS twice, then searching track is activated.
- Turn VOL knob to right or left, select the track you want.
- Press VOL knob, the song you selected will start.

3. Searching File Name:

- Press AMS 3 times, then file search is activated.
- Press VOL knob, then the first directory is displayed.
- Turn VOL knob to right or left, you can select the directory you want.
- Press VOL knob again, then the directory is fixed and the first file name is displayed.
- Turn VOL knob to right or left, you can select the file you want.
- Press VOL knob, then the song you selected will start.

4. Searching Character:

- Press AMS 4 times, then character search mode is activated.
- Press VOL knob, then * character is displayed.
- Turn VOL knob to right or left, you can select the letter you want.
- Press VOL knob longer than 2 sec.
- The song which has same character you selected is displayed.
- Turn VOL knob to right or left, you can select the song you want.
- Press VOL knob, then the song you selected will start.

CD/SD/MMC/USB OPERATIONS

Id3 Tag information

This unit supports ID3 tag ver2.0. If an MP3/WMA file has ID3 Tag information, it will be displayed on the LCD. If there is no ID3 Tag information, nothing will be shown on LCD. The ID3 Tag information may include File, Folder, Music, Album or Artist data.

NEXT/PREVIOUS

Press NEXT/PREVIOUS buttons to choose next or previous track. Press longer than 1 sec., to choose forward playback or backward playback.

PLAY/PAUSE

Press PAUSE button to pause the playback, press one more time to resume the normal playback.

INTRO (Preview all Tracks)

When this button is pressed, "INT ON" indication is displayed and the first several seconds of each track of the disc is played. Press again to stop intro and listen to track.

REPEAT

When RPT button is pressed, "PT ON" indication is displayed and playback of the selected track will be continually repeated until the track repeat mode is cancelled by pressing RPT button again.

RANDOM

When RDM button is pressed, "RDM ON" indication is displayed and each track of the disc is played in random instead of normal order. To cancel RANDOM mode, press RDM button again.

TRACK DOWN/UP SELECT (In case of MP3/WMA files)

-10/5 button: 10 Track down
+10/6 button: 10 Track up

Selection of MP3/WMA files

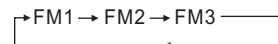
1. Searching Time:

- Press AMS one time, then searching time is activated.
- Turn VOL knob to right or left, select the time you want.
- Press VOL knob, then the select time of the song will play

RADIO OPERATIONS

BAND SELECTION

At tuner mode, press BAND button (10) to select the desired band. The reception band will change in the following order:



STATION SELECTION

Press TUNE/SEEK/TRACK FORWARD button (11) or TUNE/SEEK/TRACK REVERSE button (12) shortly for manual tuning function.

Press for several seconds the automatic tuning mode (SEEK mode) is selected.

AUTOMATICALLY MEMORY STORING & PROGRAM SCANNING

- Automatically Memory Storing

Press AMS(MP3) button (13) for several seconds, the radio searches from the current frequency and checks the signal strength until one cycle search is finished.

And then 6 strongest stations are stored into the corresponding preset number button.

- Program Scanning

Press AMS(MP3) button (13) shortly to scan preset station. When the field strength level is more than the threshold level of stop level, the radio is holding at that preset number for several seconds with releasing mute, then searches again.

STATION STORING

Press preset button (14~19)

1) RADIO MODE.

M1 ~ M6

- PRESET MEMORY is loaded when key is pressed for less than 1 second.

- PRESET MEMORY is saved when key is pressed for longer than 1 sec.

2) CD/MP3 / FLASH MP3

PLAY / PAUSE

Press preset button (14) is activated. During a PAUSE, DISC INDICATOR flashes.

TOP - First song will play when Top key is pressed for longer than 0.5sec during play.

INT

Press preset button (15): During INTRO ON, INT indicator comes on and begins playing the first 10sec of each song, until the last song is played. It begins playing the entire track from where INT started

RADIO OPERATIONS

LOCAL RADIO STATION SEARCH

Press SEL button repeatedly to choose LOCAL(DX). Rotate VOL regulator or press VOL +/- buttons on the RC to switch between LOCAL and DX. When the LOCAL function is on the local stations (stations with weak radio)

LOUDNESS

Press SEL button repeatedly until LOUD ON is displayed. Rotate VOL regulator on the front panel or press VOL +/- buttons on the RC to select loudness ON or OFF.

MONO/Stereo control (in FM radio mode)

Press SEL button repeatedly until the display shows STEREO (MONO). Rotate VOL regulator or press VOL +/- buttons on the RC to switch between STEREO reception and MONO reception. Improvement of reception of distant stations can be done by selecting mono mode, which may cut down some reception noise.

SCAN

Press scan button (26) to search radio station. When a station signal strength level more than the level to stop. The radio will playing the station for 5 seconds and the frequency blinking on the LCD at the same time. Press and hold scan button (26) more than 3 seconds to select the station which you desired. The radio will start play the station.

AREA USA/EUR SETUP

In Radio mode. Press SEL button for several seconds. LCD will be show from DSP OFF/ON → AREA USA/EUR. At AREA USA/EUR. You can use VOL +/- to select the AREA frequency.

CD/SD/MMC/USB OPERATIONS

Discs for playback:

This unit can play disc types: CD/CD -R/-RW.
Compatible with formats: CDDA/MP3/WMA.

Loading and ejecting a disc

1. Turn the power on.
2. Insert the disc with the printed side facing upward into the slot.
3. Press EJECT button to eject the disc.

Multi-media card MMC/SD card slot

Support MP3/WMA ID3 format music only. Detach the front panel. Carefully insert the SD/MMC card into the card slot on the inner panel. Attach the panel. Unit starts playback automatically.

USB jack

Carefully connect the USB driver to the USB adapter cable and then insert it into the USB jack on the front panel. Unit starts playback automatically.

USB/SD/MMC notes:

USB functions (flash memory type) MP3 music play.

1. SD/ MMC card support.
2. FAT 12/ FAT 16/ FAT 32 is possible
 - FAT 12/16 (dir: 200 support, file:500 support),
 - FAT 32 (dir: 200 support, file:500 support).
3. Filename: 32 byte/ Dir name: 32byte.
4. Tag (id3tag ver2.0)
 - Title/ Artist/ Album: 32 byte support.
5. Multi card reader not support.
6. USB 2.0 support.

Note:

USB format supports 2.0.

Capacity: up to 4 GB.

SD cards brands: Cannon, Fuji film, Palm, Motorola, Microsoft, IBM, HP, Compaq, Sharp, Samsung, etc.

Capacity: up to 4 GB.

MMC cards brands: Ericsson, Nokia, Motorola, HP, Palm, Sanyo, Microsystems, etc.

Capacity: up to 4 GB.

Note: Because of the great variety of products with SD and MMC card slots and their sometimes quite manufacturer-specific functions the producer can neither guarantee that all devices will be recognized nor that all operating options that are possible in theory will actually work.