Nakamichi®

NA2800/NA2820
AV Media Receiver
User Manual

Enjoy the Lifestyle of In-Car Entertainment

Contents

Thank you for purchasing a Nakamichi products.

Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

1

Package contains the following accessories for installation and operation of the unit.

(1) Washer, Spring Washer, M5 Nut	1 each		(5) Rubber cushion	1	
(2) Mounting Strap	1		(6) Screw	4	
(3) Bolt	1		(7) key	2	
(4) Screw	1		(8) sleeve	1	
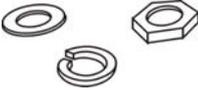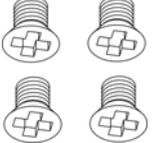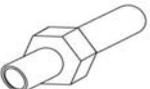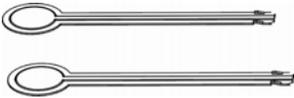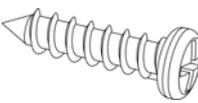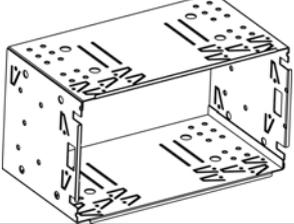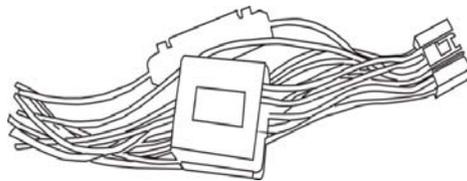
Power Cable
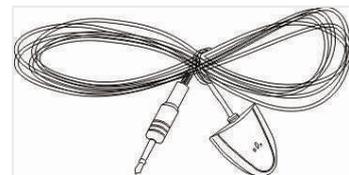
External Microphone Cable

Remote Control

Trim Ring

User Manual

Note:
Product image may vary from the actual delivery.

Installation

Note

Before starting installation of the unit, make sure the wiring is connected properly.

Use only the parts provided with the unit to ensure proper installation.

The use of unauthorized parts may cause malfunction.

Install the unit where it does not get in the driver's way and will not injure the passenger in case there is a sudden stop, like an emergency stop.

◆ **INSTALLATION** （**Figure 1**）
◆ Insert the unit into dash-board hole and fix it
◆ If necessary, place the mount strap at the rear of the unit and fix it with provided washer as figure 2.
◆ Place Trim Ring over the unit and installation is completed as figure 1.
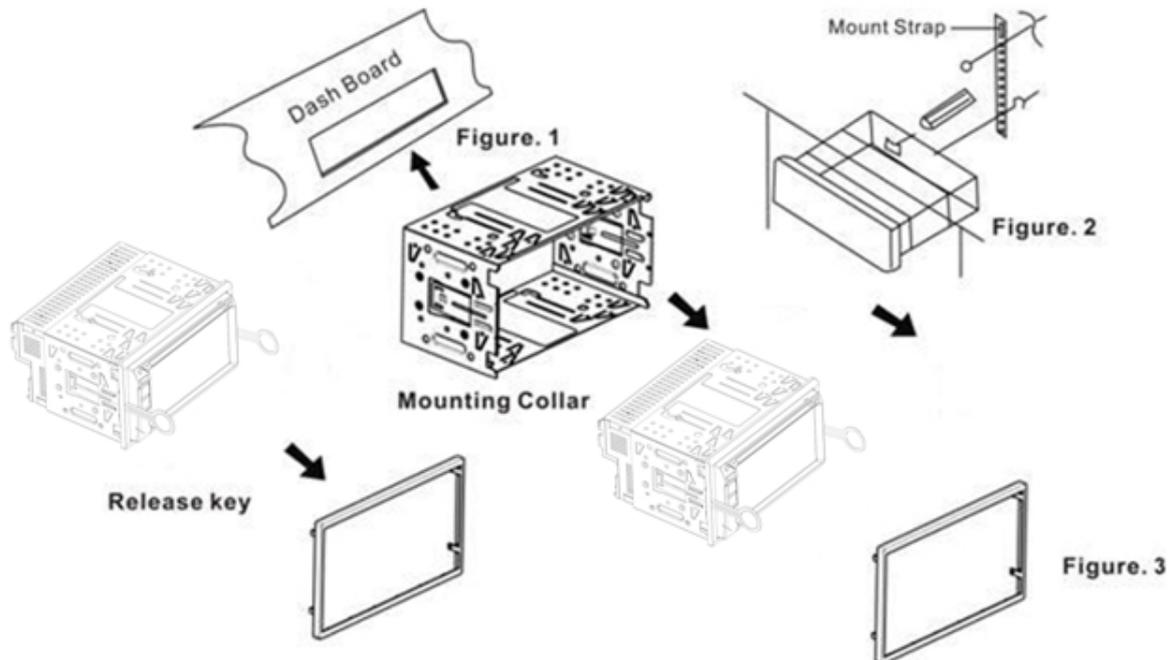
◆ **UN-INSTALLATION**

Insert the supplied extraction keys into the unit and pull the unit out with keeping the extraction keys. (as Figure. 4)

Figure 4

3

Wiring Connections

DVD/CD,USB/SD,MP3/MP4, AM/FM STEREO

Frequency range: FM: 87.5-108MHz AM: 522-1620KHz

Nakamichi®

Red — Line Out (RR)
White — Line Out (RL)
Red — Dual Zone Out (R)
White — Dual Zone Out (L)
Radio Antenna
GND (Black)
SWC2 (Red)   SWC
SWC1 (White)
External MIC
Yellow — Back-up Camera Input
Yellow — Video Output
Blue — Subwoofer Out 2
Blue — Subwoofer Out 1
White — Line Out (FL)
White — Line Out (RL)
Red — Line Out (FR)
Red — Line Out (RR)

POWER CONNECTOR

1: RL+(Green)
2: RL-(Green/Black)
3: RR+(Purple)
4: RR-(Purple/Black)
5: FL-(White/Black)
6: FL+(White)
7: FR-(Grey/Black)
8: FR+(Grey)
9: Reverse(Pink)
10: Dimmer(Orange)
11: No Function
12: Antenna/AMP +12V(Blue)
13: Parking(Brown)
14: Ground(Black)
15: Battery 12V+(Yellow)
16: ACC +12V(Red)

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

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NOTE: Never connect cable to the system while it is connected to the battery power. Whenever the unit is disconnected from the battery, the preset memory will be erased and the unit will go back to its factory defaults.

Note: 1. To watch video the parking wire should be connected to break signal. 2 cables is connected to a Hands-Free device (not included).

2. The GND of parking wire is connected with brake signal, while the GND of SWC wire is connected with steering wheel.

3. The restriction of use SWC is the voltage between the adjacent buttons are above 0.2 V that can be identified.

Parking wire

Note: The parking wire is connected with brake signal; for safety, the programs can be seen on the monitor after braking the car.

Parking Brake wire from car DVD player (Pink/Black)
Parking brake indicator Light
Parking Brake
Parking Brake switch (Activated by parking brake)
Car Battery
To metal body part or chassis ground of your car
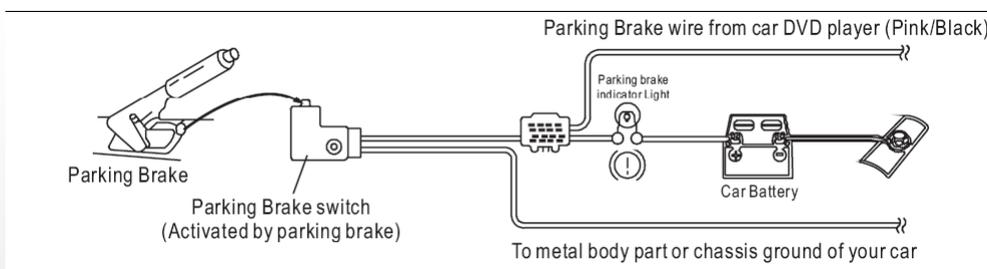
Connecting the reversing line to taillight on the car

To reversing line
Taillight line
To taillight
To Car Battery
Taillight
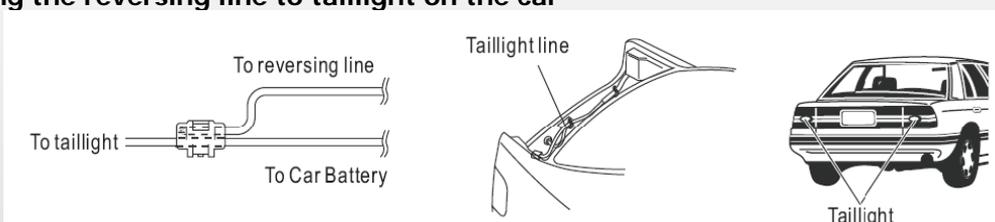
Wiring Connections

After connecting, when you start up the reverse gear, the unit will receive the picture from car rear view camera.

Note:
- Only use groundless loudspeakers.
- Use only loudspeakers of minimal 40Watt, using fewer watts may result in damaging your loudspeakers at higher volumes.
- Use 4~8 Ω (Ohm impedance) loudspeakers only; using higher or lesser impedance may damage the unit.
- Do not use 3-cable loudspeakers and do not connect the loudspeakers minus to the car body (GND). The unit is using a BTL circuit and each loudspeaker must be connected with insulated cables according the diagram.
- Loudspeaker cables and/or optional external power amplifiers must always be about 30cm away from the antenna and/or antenna extension parts.

Connect the speakers according the following diagram, incorrect connections will damage the unit or your loudspeakers

Correct connection

Left front - Right front | Left rear - Right rear
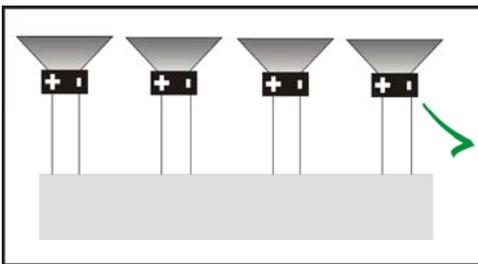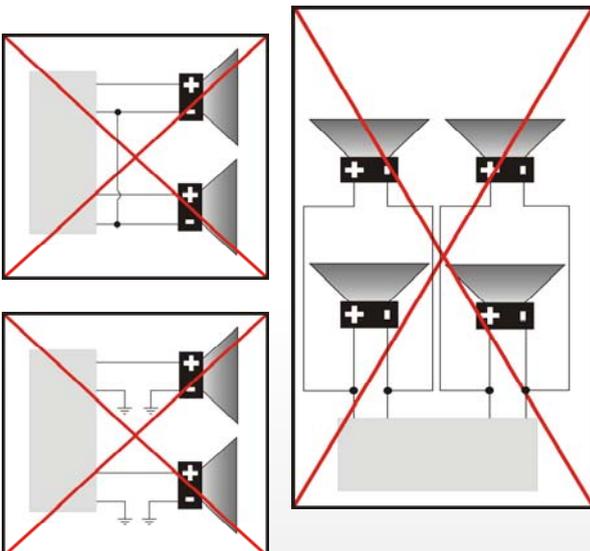
Incorrect connections

Front Panel
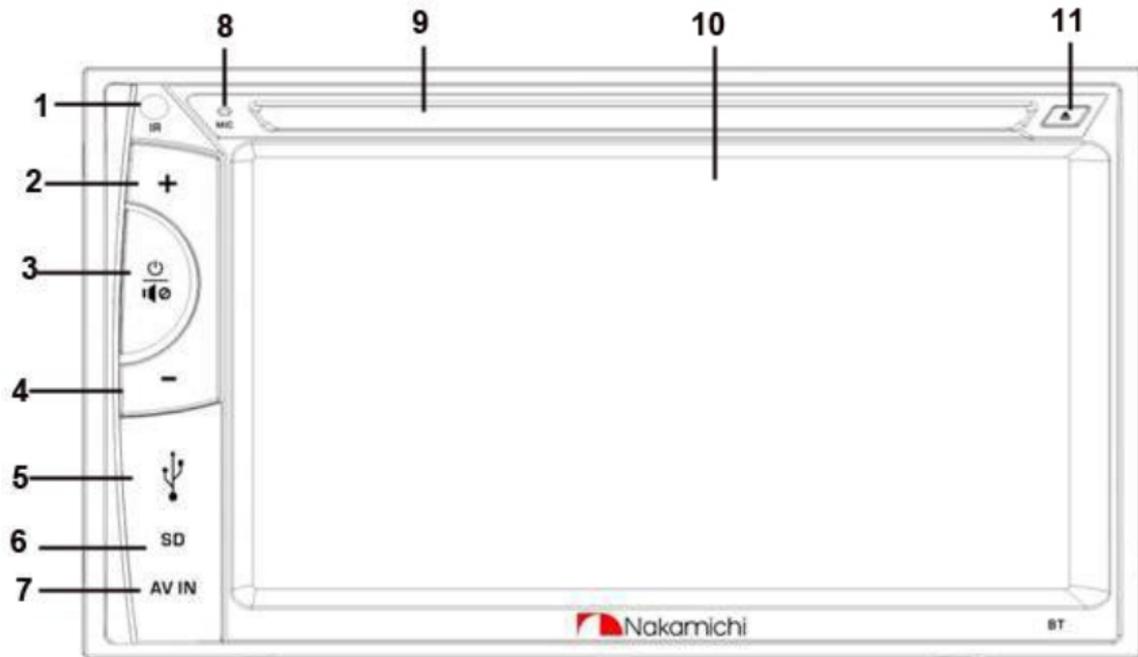
1. **IR Sensor**

IR Remote control signal receiving window. Max distance is 6-8 meters, 45 angels.

2. VOL Increase Button

Press VOL increase button to increase the volume.

3. POWER/MUTE Button

Press it to turn on the unit. Press and hold for 2 seconds to turn the unit off .Press the button briefly to Mute .Please note that the volume will be muted on all audio output connector.

4. VOL Decrease Button

Press VOL decrease button to decrease the volume.

5. USB slot

USB slot, for Multimedia playback files only. Insert a USB into this slot and the unit will automatically start reading and playback the card. * Supported Music File Format: MP3, WMA Files.

6. SD/MMC CARD slot

SD/MMC card slot, for Multimedia playback files only. Insert a SD/MMC CARD into this slot and the unit will automatically start reading and playback the card. * Supported Music File Format: MP3, WMA Files.

7. AV-in Jack

Put the AV plug into the AV-IN jack which was marked on front panel.

8. MIC

9. DISC slot

10. Info Display

Information Display LCD when operation the unit.

11. EJECT Button

Press to eject a disc. If the disc is not removed for about 10 seconds after eject, the disc is reinserted automatically.

Remote Control
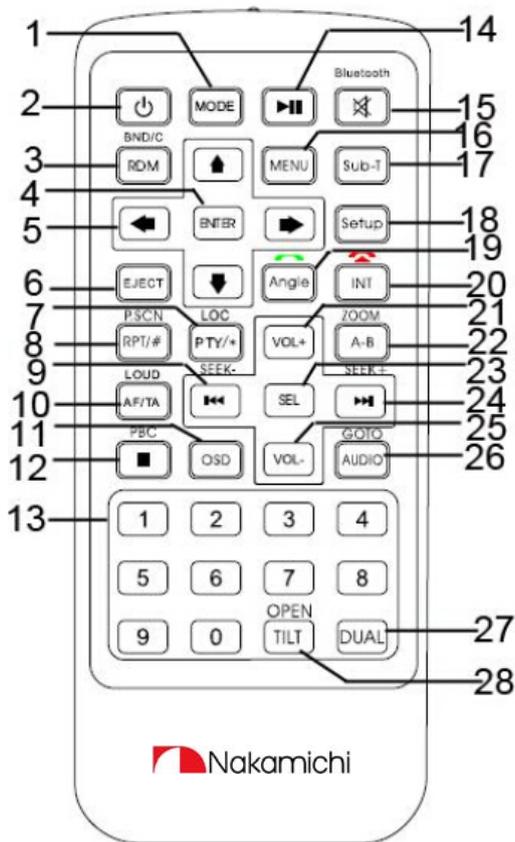
1: MODE
2: POWER
3: BAND/RANDOM/CLEAR
4: ENTER
5: UP/DOWN/LEFT/RIGHT
6: EJECT
7: PTY/*/LOC
8: P.SCN/RPT/#
9: BACKWARD/SEEK-/FAST BACKWARD
10: AF/TA/LOUD
    (Only with AF/TA function for NA2800/NA2820)
11:OSD
12:PBC/STOP
13:DIGIT NUMBERS
14:PLAY/PAUSE
15: MUTE/BLUETOOTH
16:MENU
17:SUBTITLE
18:SETUP
19:ANGLE/ACCEPT
20: INT/REJECT
21: VOLUME PLUS
22: A-B/ZOOM
23: SEL
24: FORWARD/SEEK+/ FAST FORWARD
25: VOLUME MINUS
26: AUDIO/GOTO
27: DUAL
28: TITLE/OPEN(No function for NA2800/NA2820)

1. MODE button

Press it to select the mode: Radio, DISC (if there is a disc in unit), USB (if there is a USB device in the unit), SD (if there is a SD/MMC card in the unit), Bluetooth TV (only for NA2820) and AV IN.

2. POWER

Power on or off.

3. BAND/ RDM/C

In Radio mode, press to change radio band in sequence of FM1 → FM2 → FM3 → MW1 → MW2; In DVD mode, press to play randomly; In Bluetooth mode, short press it to clear the single phone number; long press it to clear all the phone number.

4. ENTER button

Press it to confirm selection or setting.

5: Cursor ▲/▼/ ◄/► buttons

Use the ▲/▼/ ◄/► buttons to select the menu item: the title, track or to show next frame.

6. EJECT button

Press it to eject the disc.

7. PTY/*/LOC

Press to select PTY type and input a digital key on the RC to confirm search. (Only if the unit with RDS function and only for FM band)
In BLUETOOTH mode, press it to make a * symbol.
In radio mode you can also press LOC button on the RC to set LOCAL or DX stations. (Only if the unit with LOC function)

8. P.SCN/ RPT /#

In SD CARD/ USB/DVD mode, press to repeat REP 1 => REP DIR => REP ALL

In Radio mode: PS (Preset Scan): Press to scan all preset stations in the memory of the current band and stay on each memory stations for about 5 seconds.

AS (Auto Save): Long press to save the stations with good reception automatically.

In BLUETOOTH mode, press it to make a # symbol.

9. ◄◄ / SEEK- button

In DVD mode, Press ◄◄ button to skip to the previous track. Press and hold ◄◄ button for two seconds to activate fast reverse (REW) search in a track.

In RADIO mode, press ◄◄ button to start searching automatic, press and hold for two seconds to start manual searching. ◄◄ button Frequency down.

10. AF/TA/LOUD

Press to set TA on or off; press and hold AF/TA button for two seconds to set AF on or off. (Only if the unit with RDS function and only for FM band)

Press to select loud on or off. (Only if the unit with LOUD function)

11. OSD button

In DVD mode press to show disc playing information; press and hold for 2 seconds to set video setup. (RED / GREEN/BLUE / COLOR RESET / BRIGHT / CONTRAST / SHARP / BACK)

12. STOP/PBC button

Press to stop playback from the current position, press again to final stop to the very beginning. Press PLAY/PAUSE button to play.

Press and hold for two seconds to set PBC on/ off in VCD mode.

13. Digit numbers

In radio mode, select 1-6 the desired band; In DVD mode, select track.

In BLUETOOTH mode, press to input phone number，long press 0 number to make a + symbol.

14. PLAY/PAUSE button

In DVD mode, press it to break playback, press again to resume playback.

15. Mute button/Bluetooth button

🔇 : Short press to mute the volume output, press again to resume volume.

Long press this button to enter into Bluetooth mode.

16. MENU button

Press it to show main menu, in DVD mode, long press it to enter TITLE MENU (Enable only if the DVD disc with title menu).

17. SUBTITLE button

Press it to select the subtitle language (Available only if the disc with subtitle function).

18. SETUP button

In DVD mode press it to enter the setup menu, press again to resume playback.

19. ANGLE Button/Accept Button

In DVD mode, press it repeatedly to change the viewing angle (Available only with a recorded DVD file or DVD disc that has this function).

In BLUETOOTH mode, press to make a call after inputted a phone number or accept an incoming call.

20. INT Button /Reject Button

Press it to activate the intro function. You can play the beginning of every track for 10 seconds in sequence.

In BLUETOOTH mode, press to reject a coming call or hang up while calling

21. VOL+ button

Press to increase volume level.

22. A-B/ZOOM button
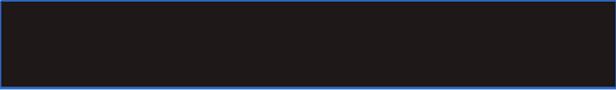
Remote Control

During playback, press it at the starting point of section you want to repeat (A), press this button again at the ending point of the section you want to repeat (B), section A-B repeating starts. Press it again to cancel the A-B repeat function.

Press it and hold for two seconds in DVD mode to zoom the image in or out in the sequence of ZOOM 2-> ZOOM 3-> ZOOM 4-> ZOOM 1/2-> ZOOM 1/3-> ZOOM 1/4-> ZOOM off.

23. SEL button

Press it to enter the SOUND SETTING menu, and press Cursor UP/DN buttons to choose an item and press cursor left/right buttons to set the item. Press SEL button again to exit the menu.

24. ▸▸ı / SEEK + buttons

In DVD mode, Press ▸▸ı button to skip to the next track. Press and hold ▸▸ı button for two seconds to activate fast forward (FF) search in a track.

In RADIO mode, press ▸▸ı button to start searching automatic, press and hold for two seconds to start manual searching. ▸▸ı button Frequency up.

25. VOL- button

Press to decrease volume level.

26. AUDIO/GOTO button

In DVD mode press it to select the audio language.

In VCD mode, press it to select the sound track in the sequence of MONO L =>MONO R =>STEREO.

Go to: in DVD mode，press and hold for 2 seconds to show TIME SEARCH menu, select number and confirm to go to certain position directly. When press ⬆ button to enter TITLE/CHAPTER selection mode, select number and confirm to go to certain TITLE or CHAPTER position directly.

27. DUAL button

DUAL KEY setting: Press briefly it to switch C-DUAL and DUAL OFF.

During C-DUAL mode, long press it switch C-DUAL and D-DUAL. Again press it briefly it to close Dual operation.

Activating Dual Zone Mode
- Access GENERAL setup in the SETTINGS menu and press the icon for DUAL mode and select ON.
- Insert a DVD or begin playing a movie from SD card or USB.

Controlling the Front Zone (C-DUAL)
- Press the front panel Volume knob until C-DUAL appears on the screen.
- Press the ARROW icon in the top right corner of the screen to return to the main menu. Select the mode you wish to use in the front zone.
- The units screen will change to the selected mode. The DVD or SD/USB movie will continue to play only on the AV outputs, while the selected mode audio is played through the front and rear LINE outputs. All front panel and remote controls will affect only the selected mode activated for the front zone.

Controlling the Rear Zone (D-DUAL)
- During C-DUAL mode, press and hold the front panel Volume knob until D-DUAL appears on the screen.

All front panel and remote control functions for DVD, USB, or SD, including volume, will control only the media playing for the rear zone.

28. OPEN/TILT button:

Short press it open or closed the monitor; long press it to adjust the tilt angle of monitor. (Only if the unit with open/title functions).

Remove Battery

Note:
- The distance may vary according to the brightness of ambient light.
- If the remote is not used for an extended period of time, remove the battery to prevent possible damage from battery leakage and corrosion.
- Do not place any objects between the remote control unit and the sensor on the unit.
- Do not drop the remote control onto the floor; it will damage it beyond repair.
- Do not use the remote control unit, while simultaneously operating the remote control unit of any other equipment; they may interfere resulting in improper operation.
- The battery normally last for about one year although depending how often the remote control is used. If the remote control unit isn't working even when it is operated near the unit, replace the battery with a new battery of the same make and use only a lithium cell battery type: CR2025 (3V).
- Dispose empty batteries in accordance with your local governmental regulations.
- Do not short-circuit, disassemble, heat or dispose of fire or flames the battery.
- Keep the battery out of reach of children, should the battery be swallowed, immediately consult a doctor.
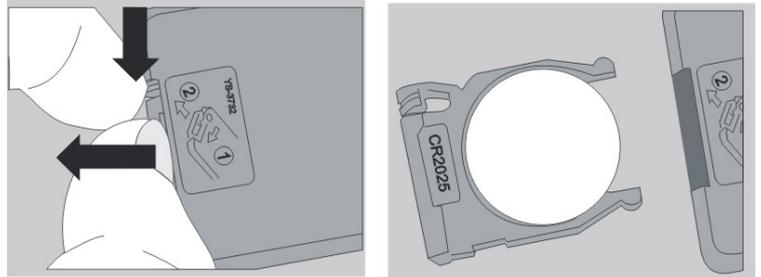
Main Menu

The best way to discover the program is to explore each screen in detail, and to find out how to move from one to another. Read this chapter for a guided tour.

Unit starts by displaying the Main menu.

This is the root of the screen hierarchy, and you can simply access all features by tapping on the touch screen buttons.

Tap the icons to enter a desired mode.

Model：NA2800

Model：NA2820

◆ **RADIO PLAYER**

To start Radio, tap RADIO button on main menu screen.

Button	Description
AF	Touch this button to switch an alternative frequency on or off.
TA	Touch this button to switch radio traffic service on or off.
PTY	Touch this button to select program type.
(headphone icon)	Touch this button to select stereo or mono sound reception.
((•))	Touch this button to select reception of local station or DX for distance station.
(mute icon)	Mute the sound.
(signal icon)	Touch this button can choose FM1, FM2, FM3, MW1, MW2.
Q	Touch this button can scan the stations from 1-6, Long Touch it to save the stations with good reception automatically and scan each station for about 5 seconds.
◄◄	Touch this button to search stations.
◄◄	Touch this button to open manual select station backward.
►►	Touch this button to open manual select station forward.
►►|	Touch this button to search stations.

◆ **DVD PLAYER**

To start DVD Player, tap on DVD button from main menu screen.

TOUCH SCREEN MENU
You will not see any buttons while DVD is played. Buttons will appear when you tap on TFT screen. Tap the screen again to hide the buttons.

Insert DVD disc	Insert VCD disc

NOTE

1.   DVD Player will automatically start playing when you insert any DVD disc.

2.   Warning displays if the vehicle is moving for driver's safety.

3.   DVD Player will not only play video, but also picture and music files as well.

PLAY/PAUSE button: In DVD mode, press it to pause, press again to start.

STOP button: press it to stop playback.

Press this button to fast reverse (REW) search in a track, FR×2×4×8×20-play will be display.

Press this button to fast forward (FF) search in a track. FF×2×4×8×20-play will be display.

 In DVD mode, touch it choose Repeat chapter =>repeat title =>repeat off.
 In VCD mode, touch it can choose REP 1 => REP DIR => REP ALL

Touch it to select the subtitle language (Available only if the disc with subtitle function)

in DVD mode touch it to select the audio language (Available only if the disc with subtitle function); In VCD mode touch it can choose MONO L---MONO R---STEREO.

 In VCD mode touch it can choose PBC ON or OFF.

/   Touch it to select previous or next track.
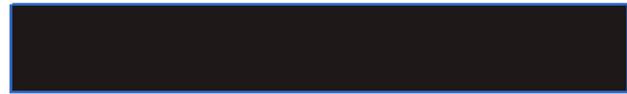
Disc/USB/SD/MMC Interface

When a file disc, USB or a memory card is played, the screen will show following interface:

Press it to activate the intro function. You can play the beginning of every track for 10 seconds in sequence.

Press it to repeat REP 1 => REP DIR => REP ALL.

Press it to play track randomly.

Press it to enter previous page.

Press it to enter next page.

Press it to open folder and select desired folder by touch.

Mute the sound.

Play/pause button. Press it to break the track, press again to resume playback.

Stop button. Press it to Stop playback from the current position; press Play/pause button to resume playback.

Press it to skip to the previous track.

Press it button to start fast rewind playback. FR×2×4×8×20-play will be display.

Press it button to start fast forward playback. FF×2×4×8×20-play will be display.

Press it to skip to the next track.

◆AV-IN MODE

To start AV-IN Mode, tap AV-IN icon from main menu screen. Connect the external audio/video signal source to this unit. Select AV-IN mode in the main menu or by pressing repeatedly Mode button on the front pane

Note: If there is no external video input, the TFT displays "NO SIGNAL".

Press the ⟵ icon to be back to main menu.
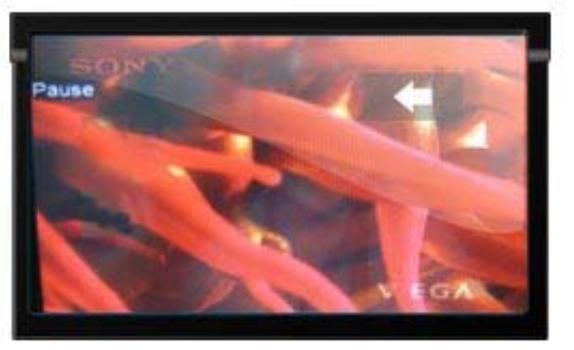
◆**SETTING CONTROL**

Your device has default system settings. You can customize the settings to suit your personal needs. Once you change settings, your new settings will remain until you change it again. To start SETTING, tap it on main menu.

Tap SOUND button to show SOUND1 menu.

EQ	Select EQ mode
BASS	Bass up/down
TREBLE	Treble up/down
BALANCE	Left/Right Balance Control
FADER	Front/Back Fader Control

Tap [∨] button to show SOUND 2 menu.

BEEP	Keypad sound setting on or off
LOUDNESS	Set LOUD ON/OFF
SUBWOOFER	Set SUBWOOFER ON or OFF

DISPLAY CONTROL

Tap DISPLAY button from setting menu screen.

BACKLIGHT	Backlight setting LOW, MID, HIGH
BACKLIGHT TIME	Backlight time setting ON,OFF AFTER 10S,OFF AFTER 20S,OFF AFTER 30S

GENERAL CONTROL

Tap GENERAL Button to show GENERAL1 menu.

OSD LANGUAGE	Set ENGLISH or CHINESE
DUAL	Set DUAL function ON or OFF
KEY	Key control CURRENT or DVD
DUAL VOL	Adjust the DUAL volume
CLOCK DISPLAY	Set CLOCK display time ON or OFF

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Setting Control

Tap [∨] button to show GENERAL 2 menu.

CLOCK HOUR	Set 24Hour format or 12Hour format
CLOCK SETTING	Adjust clock display
AUTO CONNECT	Set AUTO CONNECT ON or OFF

RADIO CONTROL

Tap RADIO button to show RADIO menu;

AREA	Select Europe, USA, South America or Russia
STEREO	Select ON (stereo reception mode) or OFF (mono reception). When the stereo signal is weak, it will automatically turn to mono mode to increase signal. The function is available only in FM bands.
LOCAL	Select ON (receive local stations) or OFF (receive local and distance stations).

DVD SETUP MENU

During the DVD playback, press the SETUP button to enter into the system settings main menu; press the up or down arrow buttons to move to the highlighted menu item and select one of the Setup Pages:

[1].**Subtitle Lang setting**:

With this option you can select the preferred language for the subtitles. When the selected language is recorded on the disc then this language will automatically be shown. If not, the first language recorded on the disc is displayed.

[2].**Audio Lang setting**:

With this option you can select the preferred language for the audio output. When the selected language is recorded on the disc (not all discs have multiple languages recorded) then this language will automatically be played. If not, the first language recorded on the disc is played.

[3]. **DVD Menu Lang setting**:

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With this option you can select the preferred language for the disc menu. When the selected language is recorded on the disc then this language will automatically be selected. If not, the first language recorded on the disc is displayed.

[4] **Password:**

The password for this unit is initially set to factory default 0000. If you want to change your password, you need to enter the old password first and confirm it, and enter a new password and confirm. _**WARNING**_: if you forget your password, there is no possibility to reset the password again. Do not forget your password and write it down or store the password in a safe place.

[5] **Rating / PARENTAL SETUP**.

The Rating control level is for parents to control playing content and protect your children form violence and erotic. The disc, the level of which is higher than the setting level can not be played.

Code	Description
1.NONE	Kid safe
2.G	General Audiences – ALL ages admitted
3.PG	PARENTAL GUIDANCE SUGGESTED-Some material may not be suitable for children
4.PG-13	PARENTS STRONGLY CAUTIONED-Some material may be inappropriate for children under 13
5.PG-R	Restricted, under 17 requires accompanying parent or adult guardian.
6.R	RESTRICTED-Under 17 requires accompanying parent or adult guardian
7.NC-17	NO ONE 17 AND UNDER ADMITTED
8. Adult	Above 17 Admitted

[6] **TV TYPE:**

Set TFT screen mode to the correct ratio:
Three screen ratio modes are available, Normal/PS (4:3 Pan Scan), Normal/LB (4:3 Letterbox) and Wide (16:9). Different disc formats will display different images depending this setting and the screen size used.

[7] **NTSC/ PAL:**

Select this menu item to set up your preferred video output format. PAL is commonly used in Europe, NTSC is commonly used in the USA and Japan. Auto is commonly used.

[8] **DEFAULT:**

Factory reset. Set all values to Factory default values including memory and preset stations.

SYSTEM INFORMATION

Press SYSTEM button to show the information of the system. You can view detail system information including serial number of the software.

SWC

Tap SWC icon to set SWC function.
Remark: Some cars may not suitable because of compatible problems.

CALIBRATION

The calibration of the screen is useful when some malfunction occur with the touch screen and it needs adjustment.
CALIBRATION procedure of the touch screen is described as below: When the target moves to another position, tap and hold at the center of the new target. Repeat each time to complete the calibration process. When the calibration has been completed, the device switches back to the previous operating mode and retain the previous setting. If you press Reset button, the setting will return to factory setting.
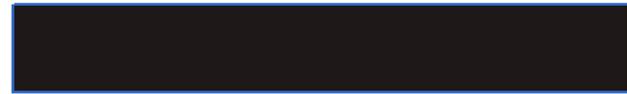
Other Functions

Subwoofer

Connect the subwoofer to the unit using sub output (see electrical diagram). Tap MENU on screen enter into main menu setting choose setting menu. Choose SOUND and set subwoofer ON to enable subwoofer.

Parking

When the car is stopped and the parking brake is working, the screen can display the video image, otherwise the screen can't display the video image

Back View Camera

This unit is equipped with back view camera output. The camera is used to observe the situation behind the vehicle when you are backing the car.
Please connect your back view camera with the back car video input. And connect the reverse wire for back a car with the rear gear light. Rear view camera picture will be enabled when you are backing the car.

Bluetooth Section

Warning: Driving and having a Telephone conversation at the same time is dangerous, please park your car before having a telephone conversation. The supplier waves any and all liability when this warning is not followed. **Before using the Bluetooth function, please connect the external microphone to the MIC PHONE JACK on the back of the device as the rating label shows.** To enter Bluetooth mode, you can tap Bluetooth icon on Main menu or long press the mute/Bluetooth button on the Remote Control or press mode button on remote or on front panel.

BT Main Menu
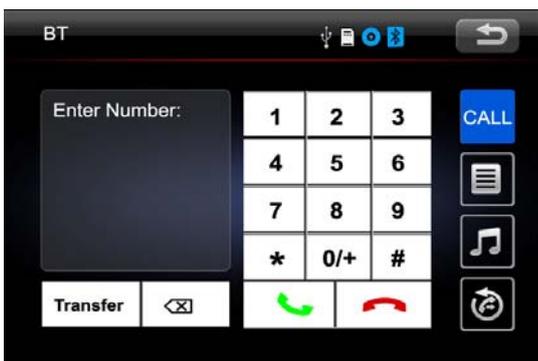
Bluetooth connect mode	**Bluetooth disconnect mode**

A user can make own choice by tap the buttons.

Tap CALLING button to use phone functions.
Tap MUSIC button to start BLUETOOTH music player.
Tap HISTORY button to check dialed, received, missed calls.

Tap PHONEBOOK button to use phone book functions.
Pairing Mode

At the 1st time when using BLUETOOTH, you need to pair the mobile phone first.
When a phone has not been paired with the unit, the BT icon and Pairing mark will blink continually on the panel.
When the unit have connect with phone, the BT icon will turn on and the Mobile phone name (if available) will be display on the panel.
According to mobile pairing device manual, after searching new device, select it, input password "0000" and confirm ok, device paring is finished.
The text 'Enter Number' will shows on the panel after the pairing is completed. It means device is connected and ready for BLUETOOTH communication.
Auto-connect - Disconnect
When power on the unit, the last paired phone will be connected to the device via Bluetooth automatically, after searching about one minute, if the device cannot find the paired phone, it will stop searching. When in standby mode (unconnected), long press Bluetooth button on remote control to active auto-connect function and the device will search the last paired phone.
If you want to disconnect the Bluetooth connection, turn off the mobile phone Bluetooth function.

1. CALLING BUTTON

Tap on CALLING button to enter call mode.

In Call mode, the unit can be used as your phone. Making and receiving calls are possible with BLUETOOTH.
Simply tap phone number and tap 📞 button to make a call, and tap 📞 button to hang up.
1) Tap CLEAR button shortly to delete a wrong digit, tap the CLEAR button or press RDM/C button on remote for 3-4 seconds to delete all the numbers at once.
2) Tap the 📞 button for 3-4 seconds, the device automatically makes a call to the latest call in its call log.
3) The volume will be operated separately while calling.

Bluetooth Section

Voice Transfer

During a call, you can change a call from Bluetooth mode to phone by tapping Transfer button. To have a call in Bluetooth mode again, tap Transfer button.
NOTE: the phonebook only supports Western Characters. Any difference in character will be shown such as "+, * or #".

2.BT PHONE BOOK

The unit can download the data from phone automatically when the pairing between a phone and the unit is completed.
The unit displays the data which have been downloading from a phone.
Select a number and tap Send button to make a calling. Press the PB-DOWN button, phonebook will be updated and downloaded with new phonebook.
Note: Bluetooth phonebook downloading must be at BT mode. If it is not, there may be failure. As A2DP function, it does not matter to at BT mode or not.

3.Call history mode

Tap HISTORY button to see history mode.
The unit can download automatically all the date from the mobile Phone.
Dialed /Received /Missed calls are saved In History mode .Tap Up/Down arrow load previous /next history record.
The calls in each category are orderly saved from the latest one to the final one.
Select a number and tap Send button to enter calling mode.
Note: The max value of history record is 20.

4. (A2DP) Music Mode

Tap MUSIC button to listen music in Bluetooth mode.
Tap the button for 'music' in Bluetooth main menu.
You can select the function with the key for previous, play / pause, stop, and next.
A2DP (Advanced Audio Distribution Profile) Music Player
A2DP is a function which can receive the audio frequency signal from the mobile phone, amplified by the car audio and played out by the car speakers.
Notice: your mobile phone need to support A2DP.
Tap the buttons on the screen as shown, or press corresponding buttons (PAUSE/PLAY, STOP, PREVIOUS/NEXT) on remote control to play, pause, play previous, or next music file.
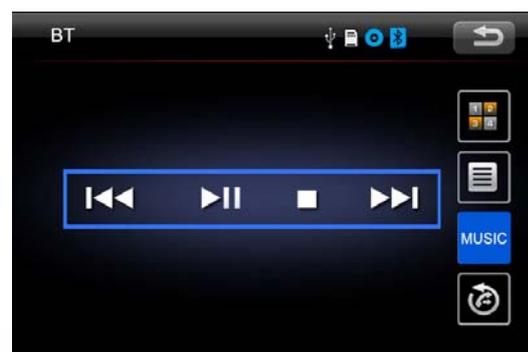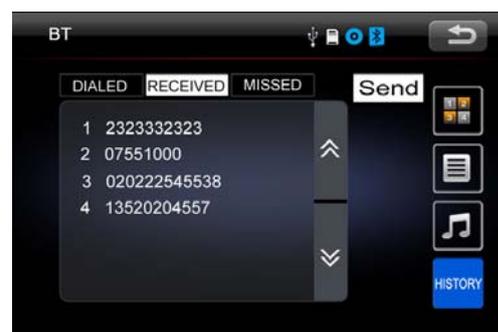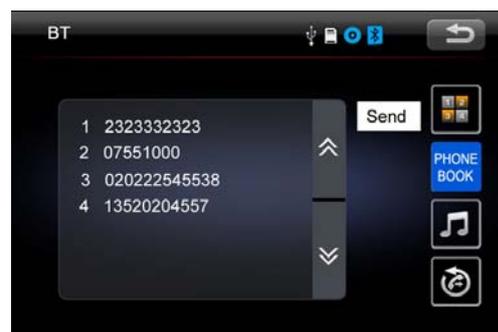
TV Operation (Only for NA2820)

To start TV mode, tap on TV button from main menu screen.
Connect a TV antenna to the TV antenna jack of the unit. Select TV mode; press on the center of the touch screen, and following interface will be display:
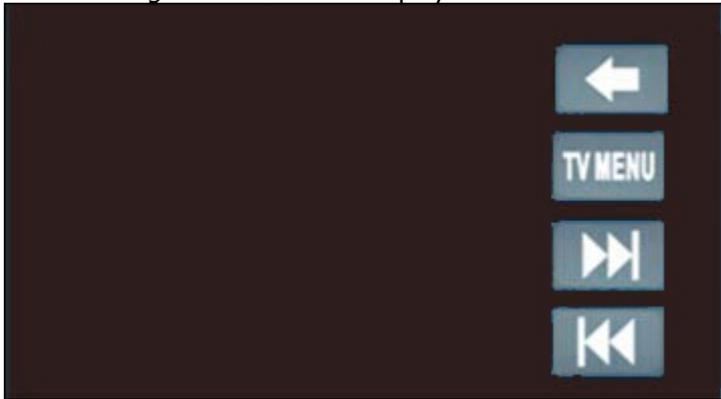
1. In TV mode, press the play/ pause button on the RC to enter TV menu setting, or press touch-screen to choose TV MENU icon to enter TV MENU.

2. Press the ▲/▼on remote or tap the screen to select one of the setup pages: Auto program => Manual program.

3. Press the ENTER button on remote or tap "Auto program or Manual program" on screen to enter the one of the pages.

4. Press the ➡/⬅ on remote buttons or tap relevant option to select the setting.

5. Press ENTER on the remote again to confirm, tap BACK button to return to the setup page.

6. Press the ⬅ icon to be back to main menu.

7. Press the **TV MENU** on to be back to TV main menu.

Note: This function is available when TV tuner is connected.

TV MENU

Auto program (Auto seek mode)

● **System**
Select this menu item is to set TV system: NTSC=>PAL=>SECAM, press ENTER button on remote or tap the screen to select.

● **Audio**
Select this menu item is to set the TV sound system:
When system setting PAL, TV sound system can set B/G=>L=>D/K=>/M/N, press ENTER on remote or tap the screen button to select.
When system setting SECAM, TV sound system can set B/G=>L=>D/K, press ENTER on remote or tap the screen button to select.
When system setting NTSC, press ▼ button to automatic skip search term.

● **Search**

Select this menu item is to start searching and storing stations automatically.

Manual program (manual seek mode)

● **Storage**

Select this menu item is to set the storage number.
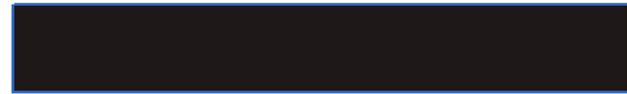
TV Operation (Only for NA2820)

- **System**

Select this menu item is to set TV system: SECAM => NTSC =>PAL, press ENTER button on the remote or tap the screen to select.

- **Audio**

Select this menu item is to set the TV sound system:

When system setting PAL, press ENTER on remote or tap the screen button to select TV sound system:

D/K=>M/N=> B/G=> L.

When system setting SECAM, TV sound system B/G=>L=>D/K.

When system setting NTSC, press ⬇ button to automatic skip TV channel term.

- **Channel**

Select this menu item is to set your desired searching channel, press ➡/⬅ button on remote to select one, or press the ⏮ / ⏭ icon to select channel.

- **Fine**

Select this menu item is to fine TV tuning and sound until it achieves the best quality, press➡/⬅ button on remote or tap relevant option to adjust.

- **Memory**

Select memory on or off is to set whether memory the searched station or not, press

ENTER on remote or tap the screen button to select.

SWC Mode

To start SWC function, tap on SWC icon from setting menu screen.
1) First check whether the car has steering wheel button.
2) The steering wheel and the unit must be connected on the line connecting the SWC. Wiring diagram below.
3) Open the unit SWC interface, you can in the above operation, the interface is as follows.

1) While holding down the button on the steering wheel and the corresponding button on the SWC interface it will display complete setting. When all the buttons on the steering wheel and the corresponding button on the SWC interface complete setting, you can use the steering wheel button to operation the unit. Such as in radio mode, press ◁◁ button or ▷▷ button to search station backward or forward; In DVD mode, press ◁◁ button or ▷▷ button to select the previous or next track and activate fast reverse (REW) search or fast forward in a track. Press VOL+ button or VOL - button to adjust the volume.

Note: The "Enter" button and the "reset" button are not included in steering wheel, press the "enter" button to confirm the select, press the "reset" button to clear the former select.

Notes on Disc

◇ Only use groundless loudspeakers.
◇ Use only loudspeakers of minimal 40Watt, using fewer watts may result in damaging your loud speakers at higher volumes.
◇ Use 4~8 Ω (Ohm impedance) loudspeakers only; using higher or lesser impedance may damage the unit.
◇ Do not use 3-cable loudspeakers and do not connect the loudspeakers minus to the car body.
◇ (GND). using a BTL circuit and each loudspeaker must be connected with insulated cables according the diagram.
◇ Loudspeaker cables and/or optional external power amplifiers must always be about 30cm. away from the antenna and/or antenna extension parts.
◇ If want to display for 6.2" TFT, parking wire must be connected to ground.

Handing discs

Handing

When holding With both hands
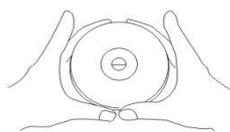
When holding with one hand

● Do not use damaged (cracked or warped) discs.
● Do not scratch the signal surface or let it get dirty.
● Do not attach paper or seals to discs.
The player may be damaged if there is any exposed glue, etc., On discs.
For rental discs in particular,extra labels are often attached to the discs.
Check carefully for any exposed glue before using such discs.
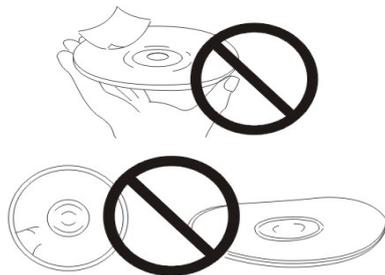
Storing discs

● Always place discs in their case and store them vertically.
Avoid storing discs in hot or humid places, places exposed to direct sunlight and places in which the temperature is extremely low.
● Read any cautions included with the discs carefully.

Cleaning discs

● Fingerprints or dust on discs may reduce sound or picture quality. Remove them by gently wiping the disc from the center toward the edges using a soft cloth.
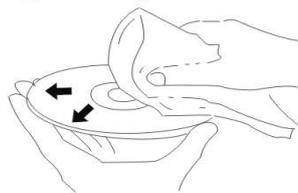
● Do not use benzene, thinner or other volatile chemicals.
Do not use record spray or antistatic spray either.
● We recommend using the separately sold cleaning set to clean discs.
● For tough dirt, apply some water to a soft cloth, wring out thoroughly,wipe off the dirt, then wipe the disc with a dry cloth.

Irregular shaped discs
Irregular shaped discs(heart-shaped discs, hexagonal discs, etc.)Cannot be played on this player.Doing so could damage the player. Never use such discs.

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Trouble Shooting

	Symptom	Cause	Remedy
General	Power does not turn on. (No sound is produced.)	Fuse is blown	Replace with fuse of the same amperage. If the fuse blows again, consult your store of purchase
		In correct wiring	Consult your local retailer.
	No sound output when operating the unit with amplifiers or power antenna attached.	Power antennal lead is shorted to ground excessive current is required or remote on the amplifiers or power antenna.	1. Turn off the unit. 2. Remove all wires attached to the power antenna lead. Check each wire for a possible short to ground using an ohm meter. 3. Turn on the unit. 4. Reconnect each amplifier remote wire to the power antenna lead one by one. If the amplifiers turn off before all wires are attached, use an external replay to provide remote-on voltage (excessive current required).
	Nothing happens when buttons are pressed. Display is not Accurate	The microprocessor has malfunctioned due to noise, etc.	Turn off the power, Then press the [no open] button and remove the DCP. Press the reset button for about 2 seconds with a thin rod.
		Panel or main unit Connectors are dirty	Wipe the dirt off with a soft cloth moistened with cleaning alcohol.
CD	Sound is bad directly after power is turned on.	Compact disc is dirty	Clean the compact disc without scratches
		Compact disc is heavily scratched or warped	Replace with a compact disc without scratches.
	Sound is bad directly after power is turned on.	Water droplets may form on the internal lens when the car is parked in a humid place	Let it dry for about 1 hour with the power on.

Trouble Shooting

SYMPTOM	CAUSE	SOLUTION
NO POWER	THE CAR IGNITION IS NOT ON.	IF THE POWER SUPPLY IS PROPERLY CONNECTED TO THE CAR ACCESSORY SWITCH THE IGNITION KEY TO "ACC".
	THE FUSE IS BLOWN.	REPLACE THE FUSE.
DISC CANNOT BE LOADED.	PRESENCE OF DISC INSIDE THE PLAYER	REMOVE THE DISC IN THE PLAYER THEN PUT A NEW UPWARD.
DISC CANNOT BE READ.	INSERTING THE DISC IN UPSIDE DOWN.	INSERT THE COMPACT DISC WITH THE LABEL FACING UPWARD.
	COMPACT DISC IS EXTREMELY DIRTY OR DEFECTIVE.	CLEAN THE DISC OR TRY TO PLAY A NEW ONE.
	TEMPERATURE INSIDE THE CAR IS TOO HIGH.	COOL OFF UNTIL THE AMBIENT TEMPERATURE RETURNS TO NORMAL.
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 POWER BUTTON FOR ABOUT 10 SECONDS TO RESET THE UNIT.
	FRONT PANEL IS NOT PROPERLY FIX 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 DIRTY OR DEFECTIVE.	CLEAN THE COMPACT DISC/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 THE SIGNALS ARE TOO WEAK.	INSERT THE ANTENNA CABLE FIRMLY SELECT A STATION MANUALLY.

Technical Specifications

General

Power supply	:11~16V DC
Current consumption	:max. 10 A
Maximum power output	:50W x 4 channels (max)
Compatible formats	:DVD/SVCD/VCD/HDCD/MP3/MP4/VIDEO/CDDA/PICTURE CDCD-R/-RW/DVD±R/±RW PLAYBACK
Dimensions (W x D x H) / weight	:165*178*100 mm/2 kg
Working temperature range	:-20℃ - +60℃
ESP function	:10 sec. for Audio CD, 120 sec. for MP3

TFT display

Screen size	:6.2 inch
Resolution	:800*480 pixel
Aspect ratio	:4:3/16:9
Brightness	:460 cd/㎡
Contrast ratio	:500:1

FM Stereo Radio

Frequency range(EUROPE AREA)	:87.5 – 108MHz(Step 50KHz)
Frequency range(SOUTH AMERICA AREA)	:87.5 – 108MHz(Step 100KHz)
Frequency range(RUSSIA AREA)	:87.5 – 108MHz(Step 50KHz) /65-74MHz(Step 10KHz)
Frequency range(U.S.A AREA)	:87.5 – 107.9MHz(Step 200KHz)
Preset memory stations	:18

AM/MW Radio

Frequency range(EUROPE AREA)	:522kHz - 1620 KHz(Step 9KHz)
Frequency range(SOUTH AMERICA AREA)	:520kHz - 1710 KHz(Step 10KHz)
Frequency range(RUSSIA AREA)	:522kHz - 1620 KHz(Step 9KHz)
Frequency range(U.S.A AREA)	:530kHz - 1710 KHz(Step 10KHz)
Preset memory stations	:12

Audio specification

Frequency response	:20 Hz-20 KHz
TV Color System	:Color system NTSC/ PAL

TV specification

Max input signal level	100dbuV
Finite noise sensitivity	42dbuV - 52dbuV
Video S/N	45db-50db
Audio S/N	46db-58db

Specifications are subject to change without notice. Mass and dimension are approximate.

Nakamichi

Design and specifications are subject to change
without notice