In-Dash Fully Motorized 7' Wide Screen Monitor

TV/FM/AM Receiver/ DVD Player

OWNER'S MANUAL

SAFETY INFORMATION

PLEASE READ COMPLETELY AND BECOME FAMILIAR WITH THE CONTENTS OF THIS MANUAL BEFORE INSTALLATION AND OPERATION OF THIS UNIT, AND KEEP IT CAREFULLY FOR FUTURE REFERENCE.

This unit is a class 1 laser product. The laser beam may cause hazardous radiation if exposure to laser system directly. Do not attempt to disassemble the unit personally.

This unit has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit protect you if you observe the following procedures for installation, use and servicing. This unit doesn't contain any parts that can be repaired by the user. If the unit requires maintenance, contact an authorized service center.

Warnings:

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

⚠️This product is designed to operate with a 12 volt DC, negative ground battery system. Use the proper power supply.

⚠️The monitor is operated automatically. Do not push in or pull out the monitor or try to reverse the monitor manually! Do not attempt to adjust the monitor angle upward or downward manually. It will cause damage to the Monitor Mechanism Structure.

⚠️Do not impact the monitor with a hard object. It may cause permanent damage.

⚠️Do ground all equipments and works in order to avoid causing damage to the unit by electrostatic discharges.

⚠️The user who handles this product takes all necessary precautions to avoid ESD (Electro-Static Discharge) failures.

⚠️Do not attempt to install or service your unit by yourself. Installation or servicing of the unit by persons without training and experience in electronic equipment and automotive accessories may be dangerous and could expose you to the risk of electric shock or other hazards.

SAFETY INFORMATION

Cautions:

(i) To reduce the risk of fire or electric shock, and annoying interference, use only the recommended accessories.

(i) While driving, keep the volume level low enough to be aware of road and traffic conditions.

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

(i) Do not use any chemical solvent, cleaning agent or corrosive detergent to clean away dirt on the surface of the TFT monitor screen. It may cause irreversible damage.

(i) Small black and shiny dots inside the liquid crystal panel are normal for liquid crystal product.

(i) In extremely cold temperatures, the movement of the picture may be slow and the picture may be dark, but this is not a malfunction. The unit will work normally once reach its operating temperature.

(i) Do not use and store the unit in dusty, high temperature and high humidity environments.

(i) Do not use the unit immediately when you bring it from cold to warm place. Fast growing temperature, may cause moisture condensing which influence the unit for certain time.

Notes:
(i) This user's manual only for reference.
(i) Modifying rights are reserved.
(i) Modifications are subject to change without notice.
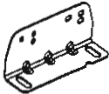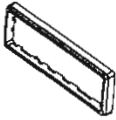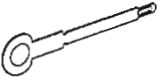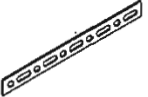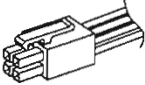
FEATURES
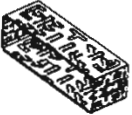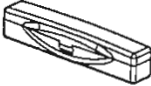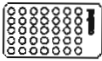
- ISO/DIN
- DVD/VCD/CD/CD-R/CD-RW/MP3 Compatible
- 7" Wide-Screen TFT/LCD Display
- High Brightness: 400 cd/m^2
- Resolution: 1440 x 234
- Color, Contrast, Brightness, Tint controls
- Ignition-Linked Monitor Extension/Retraction
- Fully Motorized Viewing Angle Adjustment
- Last Angle Memory
- Slim Type Car DVD Slot-in Mechanism (Komec)
- Digital & Mechanical Anti-Shock with ESP Memory
- Built-In Dolby Digital Decoder
- Built-In TV Tuner
- Last Position DVD Memory
- OSD (On Screen Display)
- NTSC/PAL Selectable
- Full Function Remote Control
- AM/FM PLL Synthesizer Tuner with Memory Presets
- Auto Store Pre-set Scan
- Preset EQ (POP CLASS ROCK JAZZ USER)
- Bass/Treble/Fader/Balance Controls
- Encoder Volume Control
- Extending Amplifier Control
- Auto Antenna Control
- Telephone Mute Control
- DVD/CD Changer Control
- Brake Reminder System
- Detachable Face
- Front Panel Display
- Hi Power 45W x 4
- 4 RCA Audio Outputs
- 2 RCA Audio Fixed Outputs
- 2 RCA Sub-Woofer Outputs
- 1 RCA Video Output
- 1 Set RCA Audio Video Input
- 1 RCA Rear View Camera Input

TABLE OF CONTENTS

ACCESSORIES

NO.	Item	Diagram	Quantity	NO.	Item	Diagram	Quantity
1	Mounting box		1	10	Box		1
2	Bracket 1		2	11	Remote Control		1
3	Bracket 2		2	12	Frame		1
4	Screws M5 x 5		8	13	Connecter Wire		1
5	Keys		2	14	AV Box Power Wire		1
6	Bolt		1	15	Screw M4 x 5		4
7	Screws M5 x 8		4	16	Product Warranty Registration Card		1
8	Steel Bar		1	17	Power Wire		1
9	Operational Manual		1				

UNIT INSTALLATION

Please read all of the instructions before beginning the installation. Recommend having your unit installed by a professional installation shop.

Tools and Supplies
You will need these tools and supplies to install your unit:
. Torx type, flat-head and Philips screwdrivers
. Wire cutters and strippers
. Tools to remove existing radio (screwdriver, socket wrench set or other tools)
. Electrical tape
. Crimping tool
. Volt meter/test light
. Crimp connections
. 18 gauge wire for power connections
. 16~18 gauge speaker wire

Warnings:

⚠ Choose the mounting location where the unit will not interfere with the safe driving conditions.

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

⚠ 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.

Cautions:

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

ⓘ If installation angle exceeds 30 degrees from horizontal, the unit might not give its optimum performance.

● **Securing the Unit to the Mounting Bracket.**
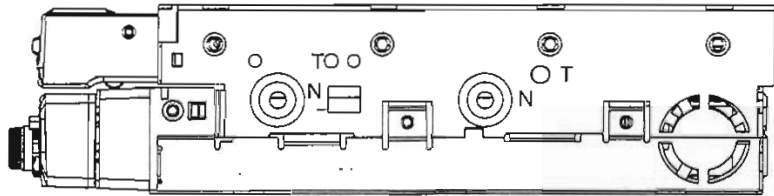
T=TOYATO
N=NISSAN

Installation Method 1
1.Bend the claws outward for tight fit, if necessary.
2.Install the Mounting Box into the dashboard, tighten the unit in place.
3.Install the Frame to the unit.
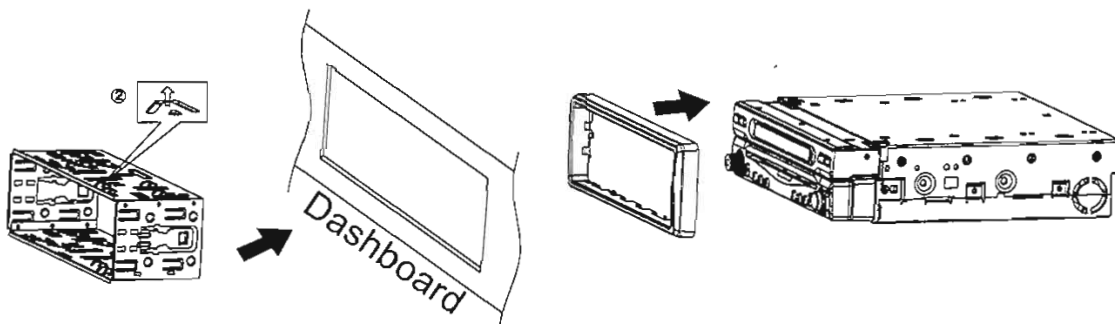
Installation Method 2
Select a position where the screw holes of the Mounting bracket supply with the car and the screw holes of the main unit become aligned, tighten the screws on each side then fasten them to car.
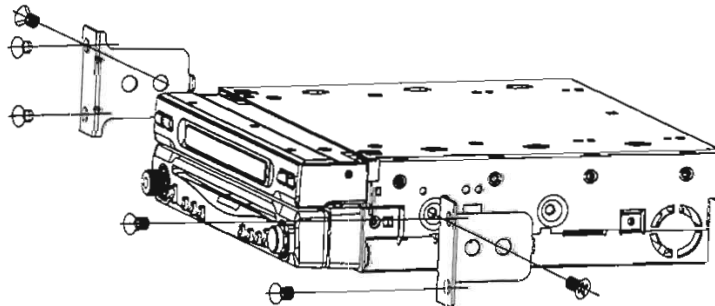
Installation Method 3

Select a position where the screw holes of the Mounting bracket supply with the car and the screw holes of the main unit become aligned, tighten the screws on each side then fasten them to car.
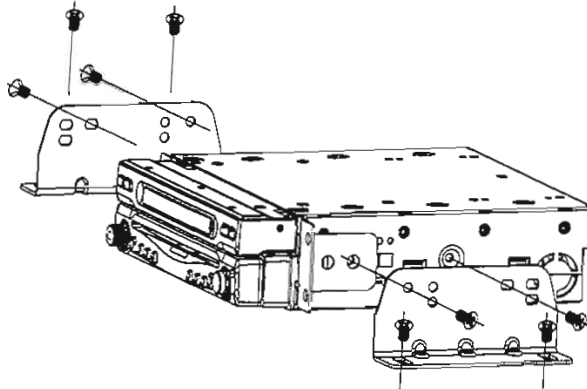
Installation Method 4

Use the Rear Mounting Bolt to support the unit.

Fire wall
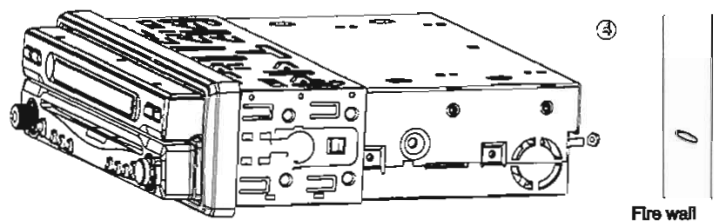
UNIT REMOVAL

- Detach the front panel.
- Insert the keys that supply to the unit at both sides of the unit (shown as illustrated) until pull the keys to make it possible to remove the unit from the dashboard.
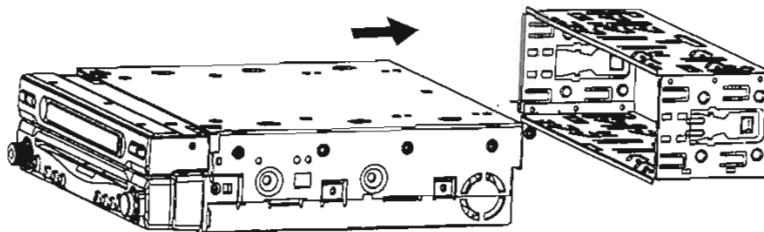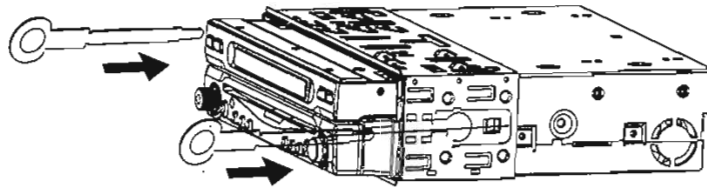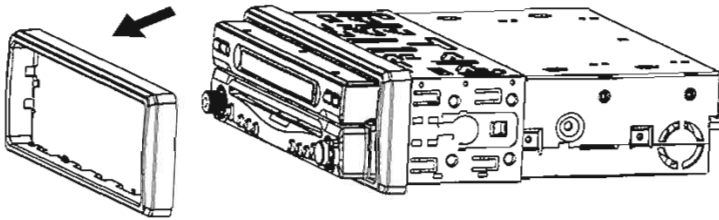
WIRING CONNECTION

Cautions:

ⓘ To prevent short circuits, remove the key from the ignition and disconnect the terminal of the battery.

ⓘ Make the proper input and output cable connections for each unit.

ⓘ Connect the wiring harness cables in the following order : ground wire, battery wire, ignition wire.

ⓘ Reconnect the terminal of the battery.

ⓘ Do not connect the yellow wire of this product directly to the battery terminal.

ⓘ Do remember to connect the red wire of this product to the ACC. of the ignition key switch. Failure to do may result in draining off the battery charge prematurely.

ⓘ If the fuse blows, first make sure that the cables have not caused a short circuit, then replace the old fuse with new one with the same rating.

ⓘ Do not let unconnected cables or terminals touch the metal on the car or Other conductor.

ⓘ To prevent short circuits, do not remove the caps form unused terminals or From the ends of the unconnected cables.

ⓘ After the monitor unit is installed, check whether the brake lamps, blinkers, wiper, etc. on the vehicle are working properly. If not, please make sure they are proper installed.

ⓘ Insulate unconnected wires with vinyl tape or other similar material.

Disconnecting the Battery
To prevent a short circuit, be sure to turn off the ignition and remove the negative(-) battery cable prior to installation.

Reconnecting the Battery
When wiring is complete, reconnect the battery negative terminal.

> **Warning:**
> **Be sure to use the correct type and amperage Fuse to avoid damaging the unit.**
> **Fuse of the Battery wire in Main Unit: 1 amp;**
> **Fuse of the ACC wire in Main Unit: 1 amp;**
> **Fuse of the Battery wire in AV Box: 15 amp;**

WIRING CONNECTION

POWER ADAPTER PIN

YELLOW (BATT)		PINK(BRAKE)
BLACK (GND)		BLUE/WHITE(AMP-CTL)
GREEN (RL+)		PURPLE(RR+)
GREEN/BLACK (RL-)		PURPLE/BLACK(RR-)
WHITE (FL+)		GRAY(FR+)
WHITE/BLACK (FL-)		GRAY/BLACK(FR-)
BLUE (AUTO ANT)		BROWN(TEL MUTE)

Fuse
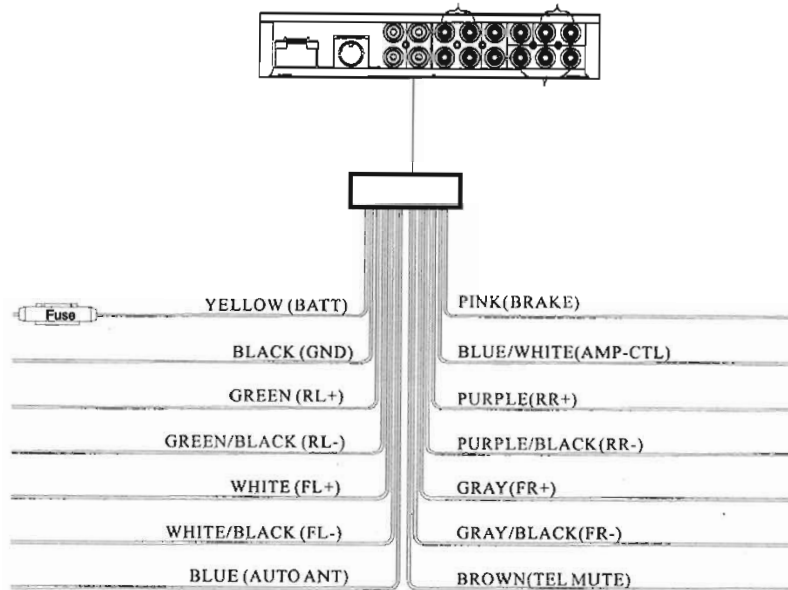
Notes:

(i) If the TV antenna is mounted near a radio antenna, reception quality may be effected during simultaneous reception of TV and Radio broadcasts.

(i) If the hide-away unit is installed under a front seat, make sure it does not obstruct seat movement. Route all leads and cords carefully around the sliding mechanism so they do not get caught or pinched in the mechanism and cause a short circuit.

(i) If the hide-away unit is installed in the passenger compartment, anchor it securely so it does not break free while the car is moving, or cause injury or an accident.

(i) Please separate Battery Units before setting products to prevent from fire and electric shock. Mounting the antenna near to a radio antenna will result in noise. In this case, consult your dealer concerning mounting location.

WIRING CONNECTION

WIRING DIAGRAM

SPEAK OUTPUT

DIGITAL AMPLIFIER

6CH AUDIO OUTPUT

OPTICAL OUTPUT

AUX IN-R/RED
AUX IN-L/WHITE

AV IN-R/RED
AV IN-L/WHITE
AV IN VIDEO/YELLOW

MAIN UNIT

REVERS

REAR VIEW

GND

FUSE

ACC

BATT

CD CHANGER

SD BUS

VIDEO OUT

AMP-CTL

REAR VIEW CAMERAA

AV BOX

TV ANT

RADIO ANT

AUTO ANT

TEL MUTE

TELEPHONE

BATT

BRAKE SWICH

ACC LOCK

FUSE

FUSE

GND

BATT+

ACC

BRAKE

RL+

RL-

RR+

RR-

FR+

FR-

FL+

FL-

SALOON CAR

●12.
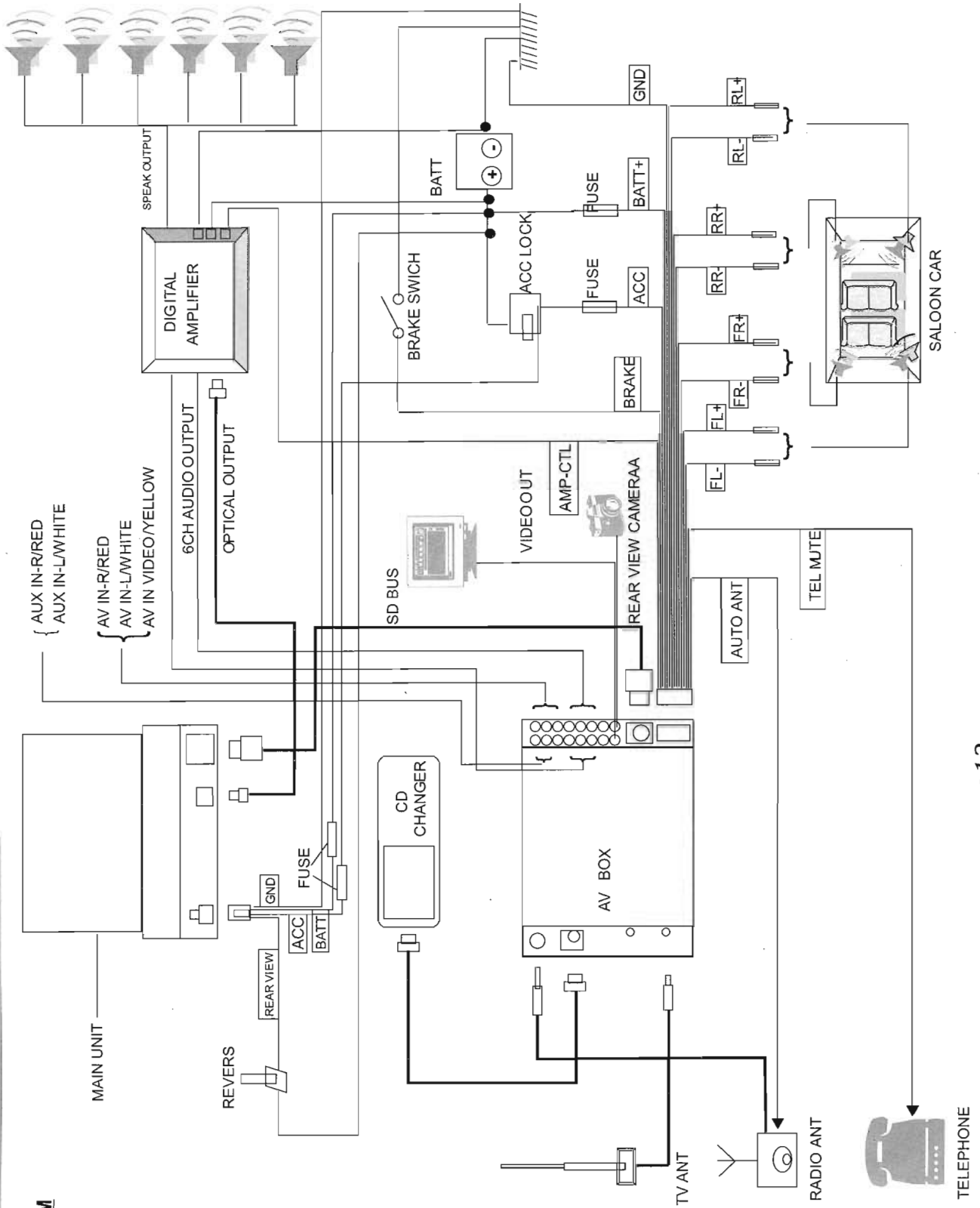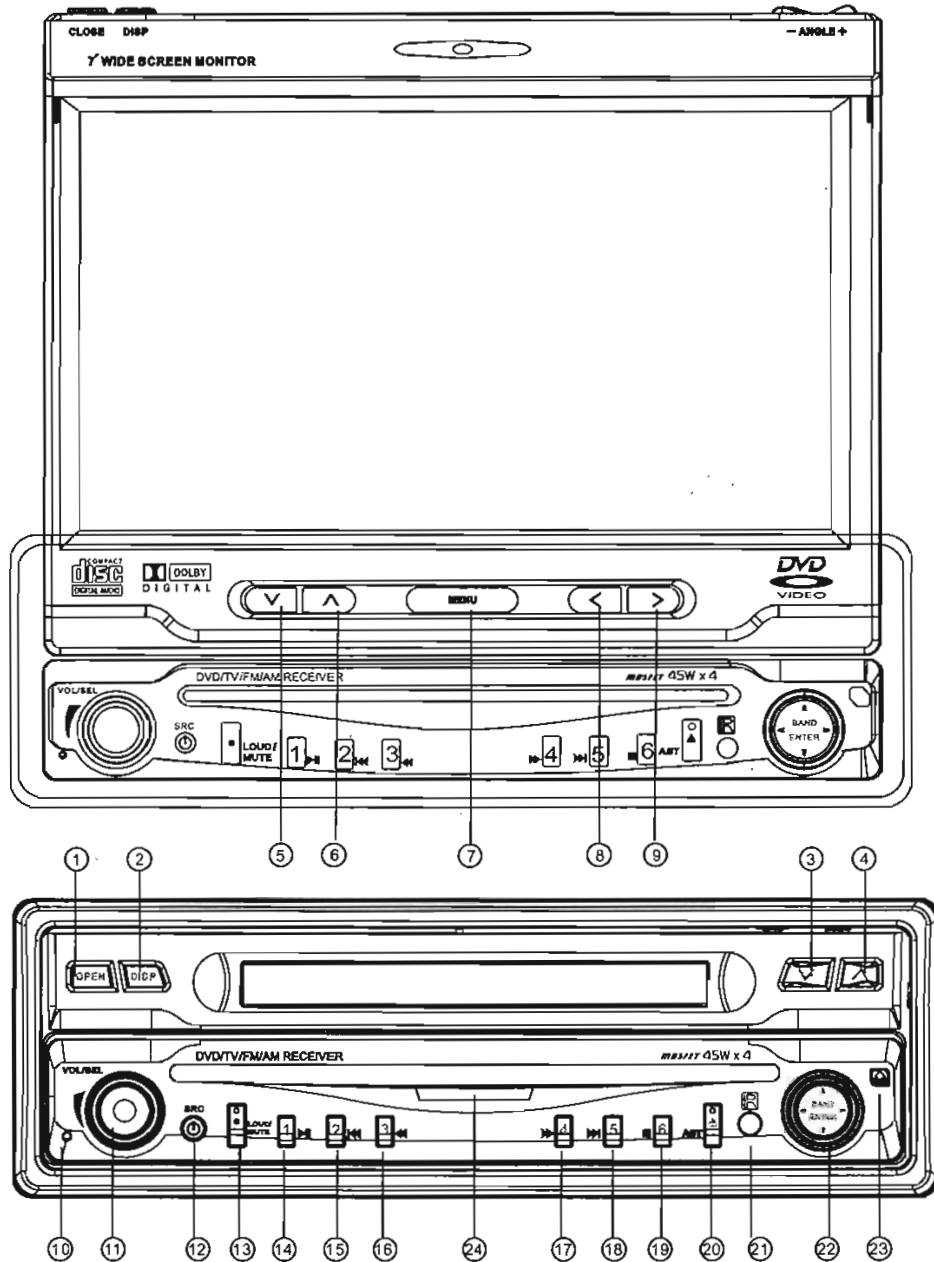
① OPEN/CLOSE	⑬ MUTE/LOUD
② DISP	⑭ PLAY/PAUSE
③ ANGLE-	⑮ PREVIOUS
④ ANGLE+	⑯ F.REW
⑤ DOWN	⑰ F.FWD
⑥ UP	⑱ NEXT
⑦ MENU	⑲ STOP
⑧ LEFT	⑳ AST/EJECT
⑨ RIGHT	㉑ REMOTE
⑩ RESET	㉒ ENTER/BAND
⑪ VOL/SEL	㉓ REL
⑫ POWER/SRC	㉔ DISC INDICATOR LIGHT

1、[OPEN]/ [CLOSE]
Press to open / close the Monitor.

2、[DISP]
Press to switch the screen zoom mode between " FULL " and " NORMAL " .

3、[ANGLE+]
Press to adjust the angle of TFT monitor upward by singly increasing.
Hold on pressing to adjust the angle of TFT monitor upward by continual increasing.

4、[ANGLE -]
Press to adjust the angle of TFT monitor downward by singly decreasing.
Hold on pressing to adjust the angle of TFT monitor downward by continual decreasing.

5、[∨]
Press to move the cursor downward to select item.

6、[∧]
Press to move the cursor upward to select item.

7、[MENU]
Press to enter / exit the Picture Parameter Setup of the TFT monitor.

8、[<]
Press to decrease the parameter value of item.

9、[>]
Press to increase the parameter value of item.

10、[RESET]
Press to reset the unit.

11、[VOL]
Rotate the button clockwise / anticlockwise to increase / decrease the volume.
Press the button vertically to enter the Sound Parameter Setup menu, and press again to exit.

12、[SRC/PWR]
Press to turn the unit on when power off.
Press to switch the modes when power on.
Hold on pressing to turn the unit off.

13、[LOUD/MUTE]
Press to mute the sound, press again to mute off.
Hold on pressing to turn the LOUD function on / off.

14、[1/ ▶ll]
Press to pause playback when playing; press again to continue playing.

15、[2/l◀◀]
Press to skip to play the pervious track.

16、[3/◀◀]
Press to fast reverse.

17、[4/▶▶]
Press to fast forward.

18、[5/▶▶l]
Press to skip to play the next track.

19、[6/■]
Press to stop playback.

Notes:
For Key 14~19:
ⓘUnder the RADIO Mode, hold on pressing to store the current radio station.
ⓘUnder the RADIO & TV Modes, press to recall the stored station.

20、 [AST/⏏]
Press to load / eject a disc.
Hold on pressing to seek radio station automatically.

21、 [REMOTE]
IR REMOTE receiver.

22[▲ ▼ ◄ ►]: Controller
Under the Setup menu:
Press the [▲] / [▼] button to move the cursor upward / downward to select item.
Press the [◄] / [►] button to decrease increase the parameter value of item.
Press vertically to confirm the operation.

RADIO Mode:
Press the [◄] / [►] button to decrease / increase the frequency step by step.
Press the [▲] / [▼] button to select the stored station upward / downward.
Press the button vertically to switch the FM/AM wave band.
Hold on pressing [◄] / [►] button to fast tuning station forward the low / high frequency.

TV Mode:
Press the [◄] / [►] button to fast tuning channel forward the low / high frequency automatically.
Press the [▲] / [▼] button to select the stored channel upward / downward.
Press Enter to switch the SIF (Sound Intermediate Frequency).

23、 [Detachable Key]
Press to take off the front panel for burglarproof.

24、 Disc Indicator LED
The LED turns on when disc in; the LED turns off when no disc.

FRONT PANEL DISPLAY
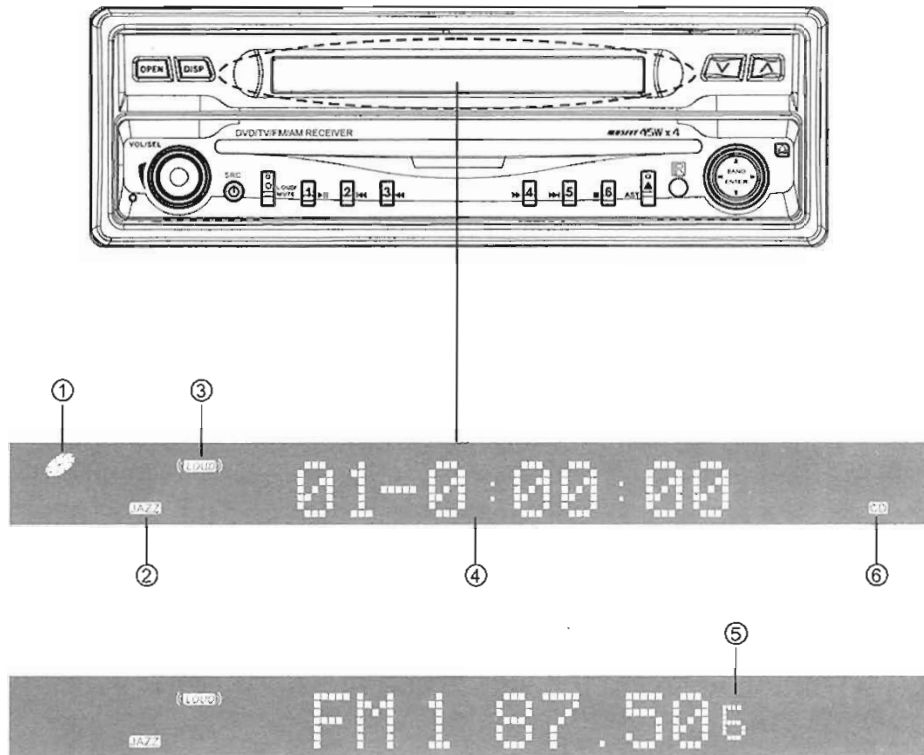
❶ (🖋) Disc Icon:
It rotates when playing disc under the DVD Mode.

❷ The EQ Indicator:
It turns on to indicate the POP、CLASS、JAZZ、ROCK when corresponding setup.
It turns off when custom setup.

❸ (LOUD) LOUD Icon:
It displays when the LOUD function on.
It disappears when the LOUD function off.

❹ Main Display Area:
Display the information such as characters, playback time of disc, radio frequency etc.

❺ Auxiliary Display Area:
Radio Mode: display the preset station number.
DVD Mode: display the DVD chapters.

❻ Disc Type Indicator:
It turns on to indicate DVD, CD, VCD, and MP3 when playing corresponding discs.
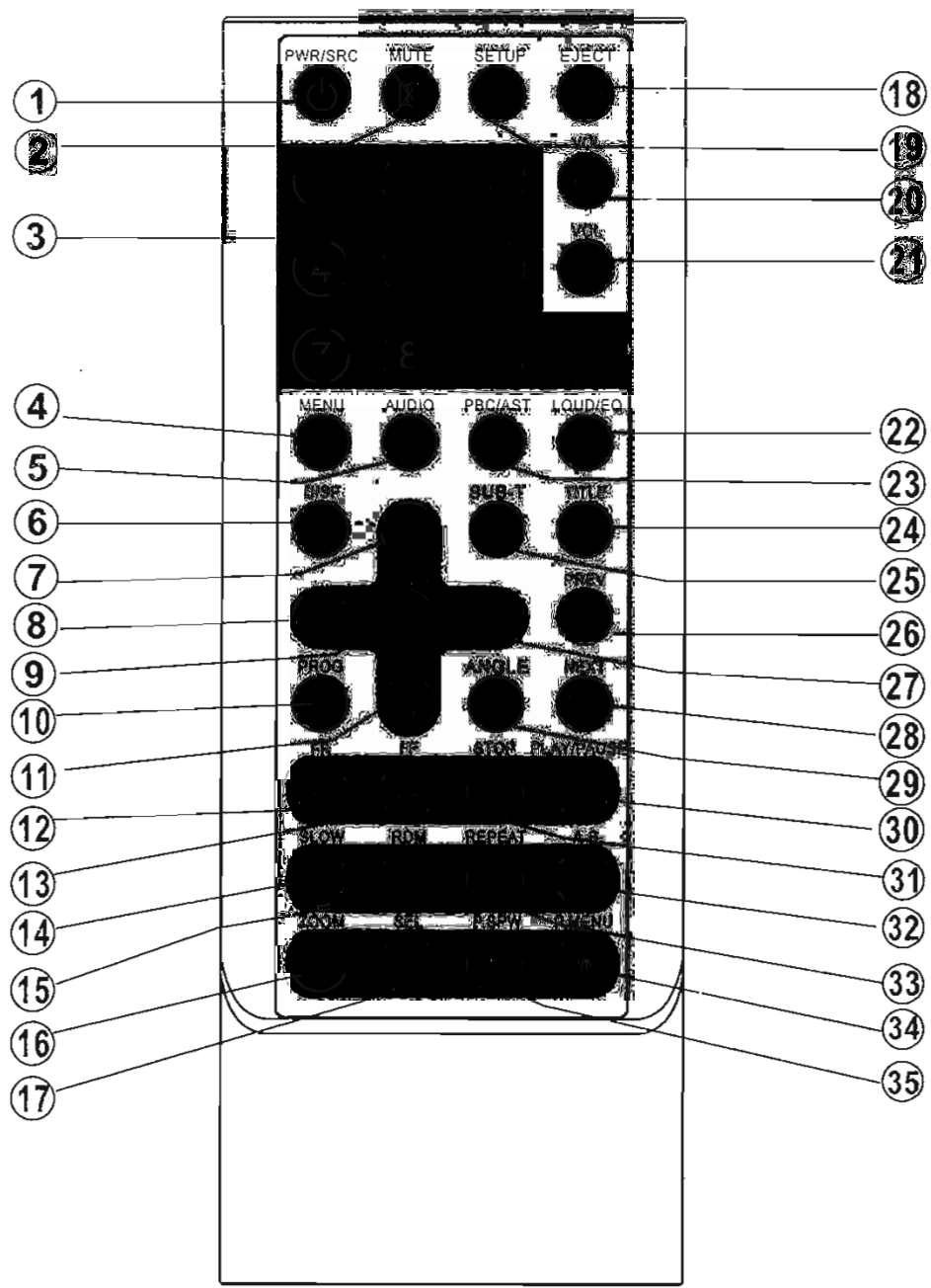
REMOTE CONTROL

①	POWER/SOURCE	⑬	F.FWD	㉕	SUBTITLE
②	MUTE	⑭	SLOW	㉖	PREVIOUS
③	NUMBER BUTTONS	⑮	RANDOM	㉗	RIGHT
④	MENU	⑯	ZOOM	㉘	NEXT
⑤	AUDIO	⑰	SELECT	㉙	ANGLE
⑥	DISPLAY	⑱	EJECT	㉚	PLAY/PAUSE
⑦	UP	⑲	SETUP	㉛	STOP
⑧	LEFT	⑳	VOLUME+	㉜	A-B
⑨	BAND/ENTER	㉑	VOLUME-	㉝	REPEAT
⑩	PROGRAM	㉒	LOUD/EQ	㉞	P.SPW/ST
⑪	DOWN	㉓	PBC/AST	㉟	P.MENU/P/N
⑫	F.REW	㉔	TITLE		

1、[PWR/SRC]
Press to turn the unit on when power off.
Press to switch the modes when power on.
Hold on pressing to turn the unit off.

2、[MUTE]
Press to enter / exit the Picture-Parameter Setup of the TFT monitor.

3、[0~9]
1~6, press these buttons to store the current radio station or recall the stored station under the Radio Mode.
0~9, press these buttons to select the tracks, and input the code.

4、[MENU]
Press to return to the boot menu when playing DVD disc.
Press to select PBC on / off when playing VCD disc.

5、[AUDIO]
Press to select dialogue language when playing DVD disc.
Press to select left audio channel, right audio channel or stereo when playing VCD disc.

6、[DISP]
Press to display current playback information when playing DVD disc.

7[▲]、8[◄]、11[▼]、27[►]Direction Key
Under the Setup menu:
Press the [▲]/[▼] buttons to move the cursor upward / downward to select item.
Press the [◄]/[►] buttons to decrease increase the parameter value of item.

RADIO Mode:
Press the [◄]/[►] buttons to decrease / increase the frequency step by step.
Press the [▲]/[▼] buttons to select the stored station upward / downward.
Hold on pressing the [◄]/[►] buttons to fast tuning station forward the low / high frequency.

TV Mode:
Press the [◄]/[►] buttons to fast tuning channel forward the low / high frequency automatically.
Press the [▲]/[▼] buttons to select the stored channel upward / downward.

9、 [BAND/ENTER]
Press to switch the FM/AM wave band under RADIO Mode.
Press to confirm the operation when playing DVD disc.

10、 [PROG]
Press to enter / exit the PROGRAM Function when playing the VCD, CD, MP3 disc.

12、 [F.REW]
Press to select fast reverse with different speed.

13、 [F.FWD]
Press to select fast forward with different speed.

14、 [SLOW]
Press to activate slow motion playback. (DVD Mode only)

15、 [ROM]
Press to turn RAMDOM function on / off when playing CD/VCD disc (PBC OFF).

16、 [ZOOM]
Press to magnify the picture display when play DVD, VCD disc.

17、 [SEL]
Press to enter / exit the Sound Parameter Setup menu.

18、 [EJECT]
Press to eject the disc.

19、 [SETUP]
Press to enter the DVD Setup menu.

20、 [VOL+]
Press to increase the volume.

21、 [VOL-]
Press to decrease the volume.

22、 [LOUD/EQ]
Press to adjust the EQ.
Hold on pressing to turn the LOUD function on / off.

23、 [PBC/AST]
Press to turn the PBC function on / off when playing VCD disc.
Hold on pressing to seek radio station / TV channel automatically under RADIO / TV Modes.

24、 [TITLE]
Press to enter the title menu when playing DVD disc.

25、 [SUB-T]
Press to select the subtitle language when playing DVD disc.

26、 [PREV]
Press to skip to play the pervious track.

28、 [NEXT]
Press to skip to play the next track.

29、[PLAY/PAUSE]
Press to pause playback when playing; press again to continue playing.

30、[STOP]
Press to stop playback.

31、[A-B]
Press to setup A-B repeat playing.

32、[REPEAT]
Press to select the chapter / title / disc to repeat playing.

33、[P.MENU/P/N]
Press the button to switch the video output (PAL/NTSC) when playing DVD disc.
Hold on pressing to enter / exit the Picture Parameter Setup of the TFT Monitor.

34、[P.SPW/ST]
Press to turn the stereo on / off under Radio Mode.
Hold on pressing to open / close the TFT Monitor.

REPLACING THE BATTERIES

If the remote control has no function or if the operating range reduced, replace
the old battery with new one.

1. Pull out the battery holder. Follow the
arrow 1 slide it to the right toward the]
battery while at the same timepull the
battery holder away from the remote
control.

2. Place the new battery. Place the new
lithium battery with the (+) side up.

3. Push the holder back. Using the finger
to push in the holder back until the
locking sound is heard.
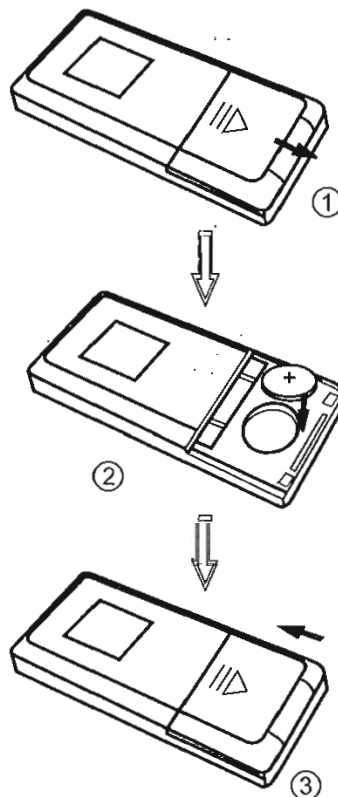
TFT MONITOR OPERATION

❶ Open the TFT Monitor
Press the [OPEN] button or hold on pressing the [P.SPW] button, the monitor will spread out, and turn around to the last angle position.

❷ Close the TFT Monitor
Press the [CLOSE] button or hold on pressing the [P.SPW] button, the monitor will turn downward and completely retract in.

Notes:
ⓘ When car back up, the monitor will extend automatically to display the picture taken by the backup camera if monitor closed.

View Angle Adjustments
Adjust the angle of the monitor to choose the best displaying effect.
❶ Continual angle adjustment
Hold on pressing the [ANGLE+/-] button to adjust the angle upward/downward by continual increasing/decreasing.
❷ Single step angle adjustment
Press the [ANGLE+/-] button to adjust the angle upward/downward by singly increasing/decreasing.

Display Mode
Press the [DISP] button of the monitor, the display proportion will switch between " FULL " and " NORMAL " .
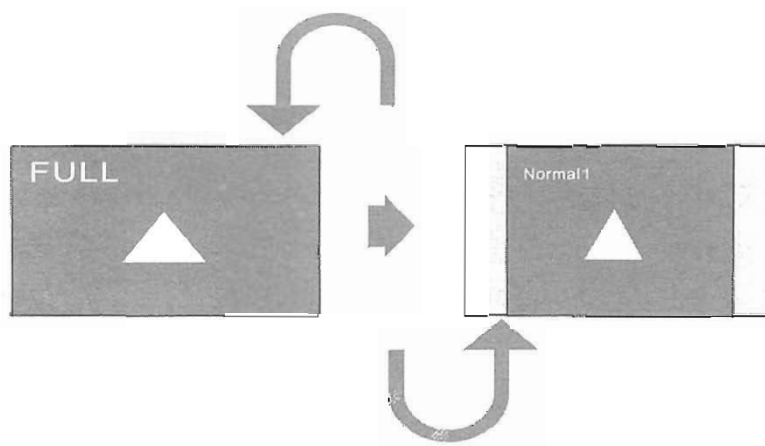
Picture Parameter Setup
The video output of the five playing source as follows:

Playing Source	Video Output
TUNER	CVBS mode
DVD	CVBS mode
DVDC	CVBS mode
AUX IN	CVBS mode
CAMERA	CVBS mode

❶ Press the [MENU] button on the TFT monitor or hold on pressing the [P.MENU] button to enter the Picture Parameter Setup menu. Press the button again to exit.

❷ Press the [▲] / [▼] buttons on the TFT monitor, the controller or the remote control to choose the adjust items.

❸ Press the [<] / [>] buttons on the TFT monitor, controller or the remote control to adjust the parameter value.

```
COLOR        15
CONTRAST     15
BRIGHT       15
TINT         15
RESET
NTSC PAL     AUTO
```

Notes:
ⓘ The default value is 15.
   The TINT can not be adjusted under the PAL system.

Brake Control
It is necessary to connect the Brake Control wire to the Hand-brake switch of the car.
While driving, the TFT monitor will display the alarm picture (see as follows) in order to ensure the safety.
Under the Rear View Mode, the Brake Control function is no effective.

No Brake No Video

Protection of the TFT Monitor
During the movement of the TFT monitor, if it is halted by force, then the unit will begin self-protection to prevent from any damage on the motorized mechanical structure. Press the [OPEN] button or shut down the ACC and then restart, the TFT monitor will act as the follow list to recover; if not, then please consult with an authorized service center.

Halt	Self-protection	Press the [OPEN] button	Shut down the ACC and restart
While extending	Retraction	Extending	Retraction
While reraction	Stop at the halt place and retract after 3 seconds	Extending	Retraction
While turning upward	Turning downward and retraction	Extending	Turning downward and retraction
While turning downward	Stop at the halt place	Turning downward and retraction	Turning downward and retraction

OPERATION

BASIC FUNCTIONS OPERATION

Startup
Press the [PWR/SRC] button on the panel or remote control to startup the power, the TFT monitor will spread out automatically and the system return to the working Mode when last turnoff.

Turnoff
Hold on pressing the [PWR/SRC] button on the panel or remote control to turnoff the power, the TFT monitor will retract automatically.
Notes:
①Close the ACC without turnoff, the unit will turnoff automatically; and the TFT monitor will retract within 10 seconds automatically to protect the TFT monitor. Start the ACC again, the unit will startup and return to the last working Mode automatically, but the monitor does not spread out.

Detachable Front Panel
The front panel is detachable.
Taking out the front panel and the unit will turnoff automatically; and the TFT monitor will retract automatically.
Notes:
①This function is burglarproof for unit security.

Mute Control
❶Press the [LOUD/MUTE] button on the panel or the [MUTE] button on the remote control to mute the sound; press it again to mute off.
❷When mute the sound, adjust the sound volume to mute off.
❸When mute the sound, there is a red MUTE icon on TFT monitor under the RADIO Mode; and there are red Volume icon and MUTE icon under other Modes.

Working Mode
Press the [PWR/SRC] button to switch the working Mode as following:
DVD→TUNER→TV→ AUX→ AV IN→CDC→DVD
Notes:
① It can not switch to CDC Mode if unit no connection with a CD Changer.
①Under AUX Mode, there are Audio Input but no Video Input.

Volume Control
❶ Rotate the [VOL] button clockwise / anticlockwise to increase / decrease the volume. Press the [VOL+] / [VOL-] buttons on the remote control to increase / decrease the volume.
❷.The adjustable range of the volume is 0~40.

Sound Parameter Setup

1. Press the [VOL] button vertically on the panel or the [SEL] button on the remote control to enter the Sound Parameter Setup menu. Press the button again to exit.

```
FADE         CENT
BALANCE      CENT
BASS         +16dB
TREB         +16dB
EQ           ROCK
LOC  AREA    ASIA
TUN  LOC     OFF
```
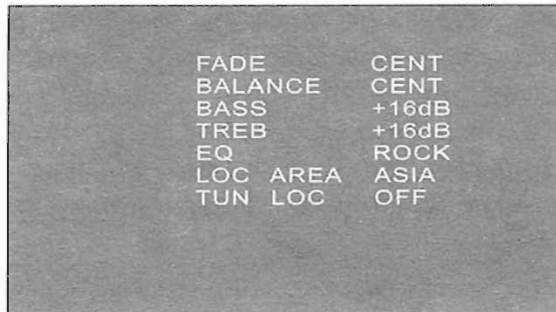
2. Press the [▲] / [▼] buttons on the TFT monitor, or the controller or the remote control to move the cursor on the adjustable items.

3. Press the [<] / [>] buttons on the TFT monitor, or the controller or the remote control to adjust the parameter value.

Adjustment Item	Range
EQ	CUSTOM (Individual)
	POP (Popular)
	CLASS (Classical)
	JAZZ (Jazz)
	ROCK (Rock)
FADE	F14 - R14
BALANCE	L14 - R14
BASS	-20 - +20
TREB	-16 - +16
AREA	EUROPE→ASIA→ USA→EUROPE
LOC	On→ OFF

Notes:

ⓘ F14 represents the loudest sound volume from Front Audio Output, while no sound from the Roud Audio Output.

ⓘ L14 represents the loudest sound volume from Left Audio Output, while no sound from the Right Audio Output.

Loud Control

Hold on pressing the [EQ/LOUD] button to turn the LOUD function on / off.
There is a " LOUD " icon on the TFT monitor display when LOUD function on.

Telephone Mute Control

Connect the telephone mute control wire " TEL_MUTE " (see Wiring Diagram).
If there is a vehicle call comes in, the sound volume will be automatically
reduced to a very small value, and TFT monitor shows: " YOU GET A PHONE " ;
when call finished, the sound volume will recover to former volume, and the
words " YOU GET A PHONE " disappear.

Auto Antenna Control

Connect the auto antenna control wire " AUTO_ANT " (see Wiring Diagram);
the antenna will lift when the unit startup; it will descend when the unit turnoff.

RADIO TUNER (FM/AM) OPERATION

Press the [PWR/SRC] button to switch to RADIO Mode.
Under the DVD Mode, the unit will switch to the RADIO Mode automatically if eject
the disc.

Display of the Radio Interface
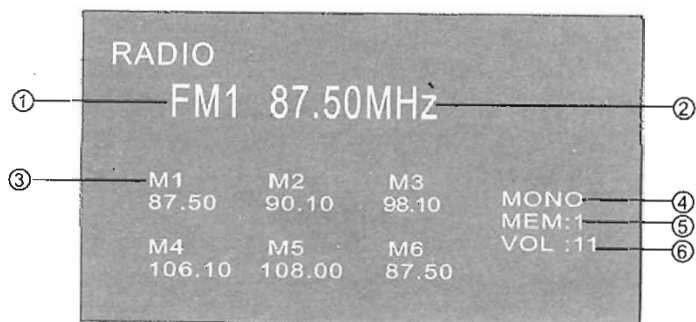
① Wave Band Display: FM1, FM2 , FM3 , AM1 , AM2
② Radio Frequency
③ Stored Radio Station
④ MONO/Stereo Indicator
⑤ Current Radio Station
⑥ Volume Indicator

OPERATION

LCD Display
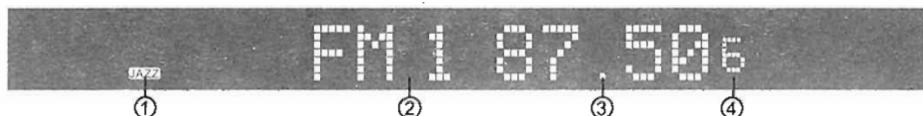
① Display Of the EQ
② Wave Band Display: FM1， FM2 , FM3 , AM1 , AM2
③ Radio Frequency
④ Stored Radio Station

Switch FM/AM Wave Band
Press the [BAND/ENTER] button on the panel or the remote control to switch the wave band as following:
FM1、FM2、FM3、AM1、AM2

Automatic Tuning
Hold on pressing [>] / [<] buttons to seek the next available channel by increasing/decreasing the tuning frequency.
Press any button to stop seeking.
Automatic Tuning will stop automatically when seek an available channel then play this station.
The unit will stop on the beginning frequency if no available sation after seeking one cycle.

Step Frequency Adjustment
Press the [>] / [<] buttons to adjust the frequency upward/downward by step increasing/decreasing.

Preset Stations
Seeking and store the stations with the strongest signal.
❶.Hold on pressing the [AST] button on the panel or the [PBC/AST] button of the remote control, to seek stations from the lowest frequency point in the entire wave band, and store the received effective radio frequency to the six stored channels M1~M6.
❷.There are five wave band of FM1、FM2、FM3、AM1、AM2, each can store 6radio stations, totally 30 radio stations.
Notes:
ⓘ Press any button to stop seeking.
ⓘ The unit will stop on the beginning frequency if no available station after seeking one cycle. After Preset Stations, the former stored stations will be instead.

28. ●

Manual Store Radio Station

Hold on pressing the number buttons on the panel or the remote control, you can store current radio frequency to the stored channel. For example, current frequency is 98.5MHZ, by hold on pressing button 2, you can store the radio station of 98.5MHZ to the channel 2.

Notes:
ⓘ After manual store radio station, the former stored stations will be instead.
ⓘ In each wave band, the number buttons 1 to 6 represent the stored radio stations.

Recall a Preset Station

Press the number buttons [1] ~ [6] to recall the corresponding stored station in M1-M6 channels.
Press the [▲] & [▼] buttons to recall the stored stations forward/downward by step.

Local Searching

When you are using the local searching function of LOCAL, you can only receive the radio station with strong enough signals and fine state.
Press vertically the [VOL] button or the [SEL] button, to enter into the Sound Parameter Setup menu to open or close the LOCAL, for searching local radio station.

Radio Area

Different radio areas lead to different frequency range of FM and AM.
Press vertically the [VOL] button or the [SEL] button, to enter into the Sound Parameter Setup menu to choose the suitable one.

Sound Parameter Setup menu

FADE	CENT
BALANCE	CENT
BASS	+16dB
TREB	+16dB
EQ	ROCK
LOC AREA	ASIA
TUN LOC	OFF
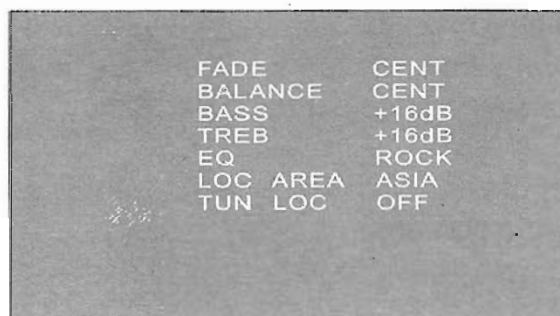
DVD PLAYER OPERATION

❶. Press [PWR/SRC] button to switch to DVD Mode.
❷. When disc loading, the unit switch to DVD Mode automatically

LCD Display
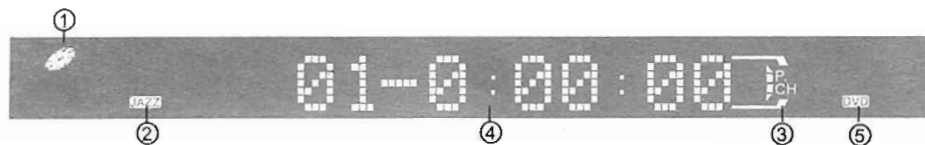
① Disc Logo
② EQ Logo (POP、CLASS、JAZZ、ROCK)
③ the Current Playing Track
④ the Current Playing Time
⑤ the Playing Disc Type (DVD、VCD、CD、MP3)

Insert Disc

❶. When disc loading, the unit will switch to DVD Mode automatically; and lighting the disc logo in LCD.
❷. When power off, the monitor will spread out and the unit switch to DVD Mode automatically if insert a disc.

Notes:

ⓘ No effective under the Rear View Mode.
ⓘ Please ensure no disc inside when inserting a disc. It could have a disc inside if the disc can not be inserted; do not insert disc so hard as to destroy Loader.

Ejecting Disc

1. Press the button to eject the disc.

2. When ejecting the disc in DVD Mode, the unit will still be in DVD Mode.

3. When ejecting the disc at other Modes, the unit will switch to RADIO Mode automatically.

```
RADIO
    FM1  87.50MHz

M1          M2          M3
87.50       90.10       98.10      MONO
                                   MEM:1
M4          M5          M6         VOL :11
106.10      108.00      87.50
```

Loader Reset

The loader will reset automatically when Power On if no disc inside.

Pause

Press the button to make the disc pause when playing the DVD/VCD/CD/MP3 disc under DVD Mode, press the button again to continue the playing.

Stop

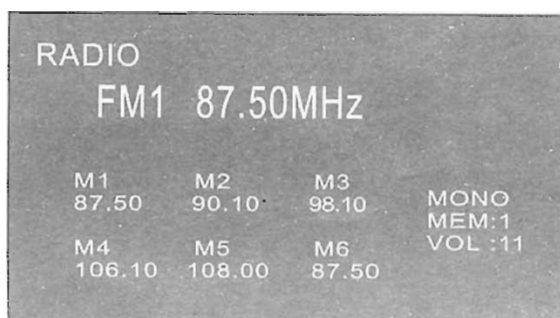**1.** During playing the DVD / VCD / CD / MP3 disc under DVD Mode, press the button one time to stop playing and memorize the location where stopped; press Play / Pause button to resume playing from the memorized position.

2. Press the button to stop playing, press Play / Pause button twice to play disc from the beginning.

Fast Forward/Fast Reverse

1. During playing the VCD / CD / MP3 disc under DVD Mode, press the button to switch Fast Forward/Fast Reverse speed as the following:
x2→x4→x8

2. During playing the DVD disc in DVD Mode, press the button to switch Fast Forward/Fast Reverse speed as the following:
x2→x4→x16→x100

Slow

During playing the DVD disc under DVD Mode, press the button to switch slow speed as the following:
x1/32→x1/16→x1/4→x1/2

Notes:

ⓘNo function during playing VCD / CD / MP3 disc.

Previous/Next
❶. Press the button to select the previous/next chapter or track as the following:

Disc	Search
DVD	Chapters searching
VCD 【PBC On】	———————
VCD 【PBC Off】	Tracks searching
CD	Tracks searching
MP3	File searching

❷. Press the [PREVIOUS] button more than 5 seconds to return to the beginning of the playing track when playing VCD / CD / Mp3 disc; If press less than 5 seconds, it will return to previous track.

Repeat
Press the button to repeat playing as the following:
❶. DVD Disc: Repeat Chapter / Repeat Title / Repeat Turnoff.
❷. VCD / CD / MP3 Disc: Repeat Track / Repeat Table of Contents / Repeat Turnoff.
Notes:
ⓘ No repeating function if PBC on when playing VCD disc.
Repeat function is no effect automatically when Power Off or switch Mode from DVD to other Modes then comes back DVD.

A-B Repeat
Unit can make device A-B repeat playing by remote control.
Press the button one time to select point A, press the button again 2 seconds later to select point B. Unit will repeat playing the content between point A and B. Press the button a third time to return to normal playing.

Repetition	Monitor Display
Repeat from point A	Repeat A-
Repeat to point B	Repeat A-B
Repetition AB cancelled	Turn off the function

Random
Press the button to play all tracks at random when playing DVD/VCD/CD disc.
❶. Random on
Press the button to play all tracks at random when playing DVD/VCD/CD disc.
❷. Random off
Press the button again to make random off, the unit will play all tracks in a regular order.
❸. Press Pervious/Next button to select the previous/next track to play the tracks at random.
Notes:
ⓘNo function when playing DVD / VCD disc when PBC ON.

Programming
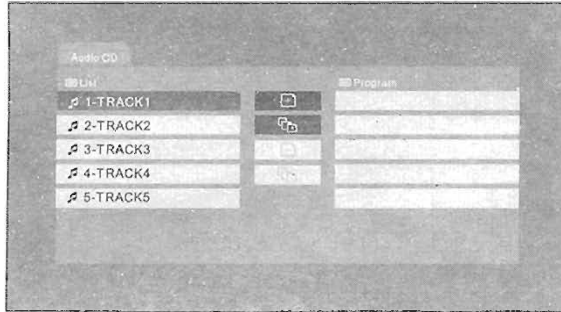
1. Press the [▲] / [▼] buttons to move the cursor to your favorite tracks, press the [PROG] button to select the tracks into the playing list on the right side, or move the cursor to your favorite tracks, press the [<] / [>] buttons to move the cursor to [⊞] logo, press the [ENTER] button to select the tracks into the playing list on the right side.

2. Press the [<] / [>] buttons to move cursor to playing list on the right side, press the button [ENTER] to play selected tracks.

3. Press the [▲] / [▼] buttons to move cursor to selected track, press the [<] / [>] buttons to move cursor to [⊟] logo, press the [ENTER] button to delete the selected track.

4. Move cursor to list on the left side, press the [ENTER] button to return to normal playing, or press the [<] / [>] buttons to move cursor to [⊟] logo, press the [ENTER] button to delete all tracks on the right side, then return to normal playing.

Notes:

ⓘ If move the cursor to [⊞] logo, press the [ENTER] button to select all tracks into PROGRAM playing.

ⓘ If delete the playing track in the list, the unit will play previous or next track in programmed list.

Programming For VCD

1. Firstly press the [PBC] button to be PBC OFF, then press the [■] button, press the [PROG] button to enter program setup menu.

2. Press the [▲] / [▼] buttons to move the cursor to your favorite tracks, press the [PROG] button to select the tracks into the playing list on the right side, or move the cursor to your favorite tracks, press the [<] / [>] buttons to move the cursor to [⊞] logo, press the [ENTER] button to select the tracks into the playing list on the right side.
Press the [<] / [>] buttons to move cursor to playing list on the right side, press the [ENTER] button to play selected tracks.

3. Press the [▲] / [▼] buttons to move cursor to selective track, press the [<] / [>] buttons to move cursor to []logo, press the [ENTER] button to delete the selected track.

4. Press the [PROG] button to return normal playing when program playing, 'NORMAL' on monitor displayed.

5. Press the [PROG] button to enter program playing, and play the 1st track in the program list, but no display in the program list.

Notes:
ⓘ No function when playing DVD disc.
ⓘ In program playing, press the [PREVIOUS] / [NEXT] buttons to play the previous/next track in program list.

Audio
❶. When playing DVD disc
   Press the button to switch audio languages.
❷. When playing VCD disc
   Press the button to switch the as following:
   Stereo→Left→Right→Stereo
Notes:
ⓘ No function when playing CD/MP3 disc

This function takes effect on the available DVD disc, do as the following 3 steps:
❶. Enter Menu
   Press the [MENU] button on remote control to enter the setup menu of language, subtitle device, press the button again to exit.
   Press the [TITLE] button to go to DVD title menu, press it again to exit to play.
❷. Enter Item

   Press the [∧] / [∨] / [<] / [>] buttons to move the cursor to selective item.
   Press the [>||] or [ENTER] button to confirm the selected item.

Zoom
Press the button to zoom the picture, press the button repeatedly to change the magnification levels.

Display	Setup
400%	Level One Magnified
1600%	Level Two Magnified
OFF	Normal

Subtitle
Press the button to switch the subtitle language if DVD disc has many subtitle languages.
Notes:
ⓘ No function when playing VCD/CD/MP3 disc.

Angle
Press the button to switch the view angles if DVD disc has many angles information.
Notes:
ⓘ No function when playing VCD/CD/MP3 disc.

DISPLAY

Press the button to display the current playing information and set device.
A. For the VCD disc, 4 options (track, play time, audio, sound effect) can be set up when PCB OFF, and 3 options (play time, audio, sound effect) can be set up when PCB ON.
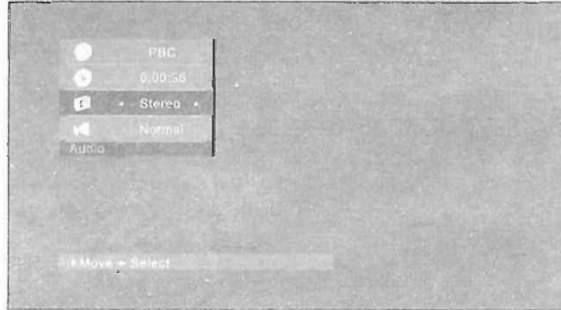
❶ Set up Track
Press the [▲] / [▼] buttons to move the cursor to track, press the [<] / [>]buttons to add or decrease " track " , or press the number buttons directly.
❷ Set up Playing Time
Press the [▲] / [▼] buttons to move the cursor to " time " , input the play time and press the [ENTER] button to play from the input time.
❸ Press the [▲] / [▼] buttons to move the cursor to " track " , press the [<] / [>] buttons to setup the stereo (stereo→left →right).
❹ Press the [▲] / [▼] buttons to move the cursor to "track" , press the [<] / [>] buttons to setup the sound effect (normal→3D).

B. For the DVD disc, it may setup the Title, Chapter, Time, Audio, Subtitle, Angle and Sound Effect.

❶ Setup Title and Chapter
Press the [▲] / [▼] buttons to move the cursor to " track " or " title " , press the [<] / [>] buttons to add or decrease 'track', or press the number buttons directly.
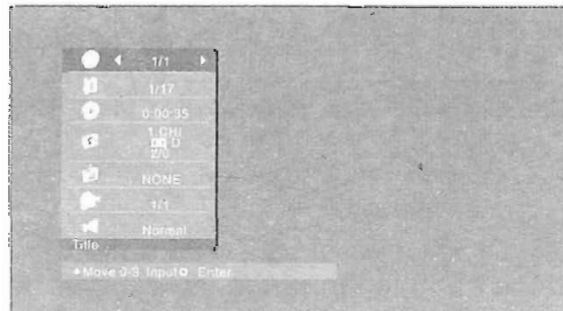**❷** Set up Playing Time
Press the [▲] / [▼] buttons to move the cursor to " time ", input the play time and press the [ENTER] button to play from the input time.
❸ Setup Audio, Subtitle, Angle, Sound Effect
Press the [▲] / [▼] buttons to move the cursor to selective items, press the [<] / [>] buttons to setup selective items.

Notes:
ⓘNo function if play time exceed the time of the disc.

PBC

❶. Press the [MENU] or [PBC] button to open PBC function; press again
   to cancel the function.

❷. Turn off PBC menu, unit starts to play from 1ˢᵗ track when PBC ON.

Notes:

ⓘThe unit takes effect on F.FWD/F.REW/SLOW/PREVIOUS/NEXT functions; It takes
no effect on REPEAT, select tracks by NUMBER Buttons functions when PBC ON.

Playing MP3 Disc

Insert a MP3 Disc, it is according to the following order to play:
Root Dictionary→Folder→ File
In a general way, it starts from the first track in the file.
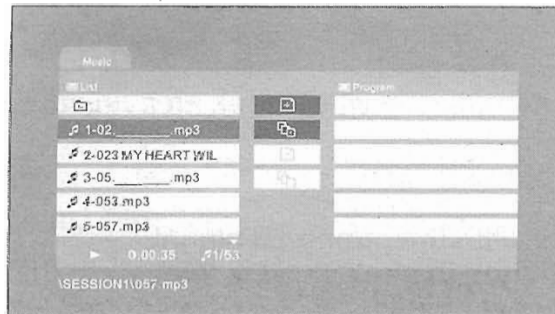
Press the [∧] / [∨] / [<] / [>] buttons to move the cursor to " FOLDER " , press the
[ENTER] button to confirm the " FOLDER " ; press the [∧] / [∨] / [<] / [>] buttons
to move the cursor to " FILE " , press the [ENTER] button to play the " FILE " .

Number Buttons

❶. When playing VCD disc, press the number buttons to play your favorite track
   directly when PBC OFF; press the number buttons to select track in menu
   when PBC ON, no function while playing.

❷. When playing DVD disc, press the number buttons to select track in menu,
   no function while playing.

❸. When playing CD/MP3 disc, press the number buttons to play your favorite track
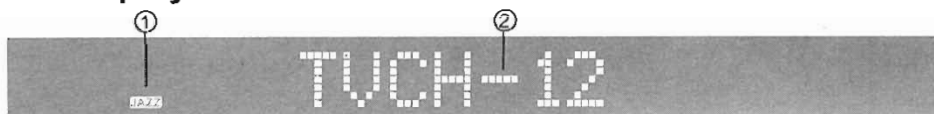   directly.

Notes:

ⓘFor 2-digitals tracks, for example track 12, press the number buttons [1] & [2].

OPERATION

TV OPERATION

Press the [PWR / SRC] button to switch unit to TV Mode.

LCD Display

❶.EQ Display
❷.Station

Automatic Tuning
Press the [>] / [<] buttons to seek the next available channel by increasing/decreasing the tuning frequency.
Press any button to stop seeking.
Automatic Tuning will stop automatically when seek an available channel then play this station.

Preset Stations
Seeking and store the stations with the strongest signal.
Hold on pressing the [AST] button to seek stations from lowest frequency, available stations will be stored in preset stations from 0-X (X recording totally stations in different countries).

Notes:
ⓘPress any button to stop seeking.
ⓘThe unit will stop on the beginning frequency if no available channel after seeking one cycle.

Recall a Preset Station
Press the number buttons [0] ~ [9] to recall the corresponding stored station in 0-9 channels.
Press 2 digital number buttons to recall a 2-digitals station; for example, press the [3] & [5] buttons to recall the station 35.
Press the buttons [▲] & [▼] to recall the stored stations forward/downward by step.

Change Audio Format
1.Search the available channel.
2.Press [BAND] button to switch the audio format as the following:
PAL-BG→PAL-I→PAL-DK→NTSC→PAL-BG

Notes:
ⓘIn different countries, the TV has the corresponding Audio Format; it will cause cacophony if use wrong Audio Format.

OPERATION

AUXILIARY MODE OPERATION

AUX Mode
Press the [PWR/SRC] button to switch to AUX Mode.
Under AUX Mode, there are 2 Audio Inputs but no Video Input.

AV IN Mode
Press the [PWR/SRC] button to switch to AV IN Mode.
Under AV IN Mode, there are 2 Audio Inputs & 1 Video Input.

Rear View Mode
Press the [PWR/SRC] button to switch to Rear View Mode.
When car back up, the monitor will extend automatically to display the picture taken by the backup camera if monitor closed; and the display will switch to the picture taken by the backup camera automatically if monitor opened.
The display will return to former working mode if backup finished.

Notes:
ⓘUnder the Rear View Mode, there are monitor angle adjustment, telephone mute, open/close monitor functions on working ONLY.
Under the Rear View Mode, the Brake Control function is no effective.

CDC OPERATION

Press the [PWR/SRC] button to switch to CDC Mode if unit connects the CD changer.

Notes:

(i) The unit can connect SANYO series CD changer only.
It can not switch to CDC Mode if unit no connection with a CD Changer.

Play/Pause
Press the [▶ll] button to make a pause; press it again to continue the playing.

Previous / Next Track
1. Press the [▶▶l] / [l◀◀] button to play the previous / next track.
Press the [l◀◀] button to restart playing the track if the current track plays more than 2 seconds; and press the button to play the previous track if the current track plays less than 2 seconds.

Previous / Next Disc
Hold on pressing the [▲] / [▲] button to se lect the previous/next disc to play.

Random Play .
Press the [RDM] button to play all tracks by random, and " SHUFFLE " on monitor display; press the button again to return normal playing from first track, and " SHUFFLE OFF " on monitor display.

Notes:

(i) This function is effective when playing CD/MP3 disc.
(i) This function is effective when finish playing current track or press the [l◀◀] / [▶▶l] buttons.

Repeat Playback
Press the [REPEAT] button to repeat playing the current track, and " REPEAT TRACK " on monitor display; press the button again to return normal playing, and " REPEAT OFF " on monitor display.

Stop Playing
Press the [STOP] Button to stop playing on DVD/CD Changer.

DVD SETUP MENU

SETUP MENU OPERATION

※ Press the [SETUP] button to enter the SETUP Menu.
※ Press the [<] [>] buttons to switch the main menus as following:
※ LANGUAGE→DISPLAY→AUDIO→LOCK→OTHERS
※ Press the [∨] button to enter the submenus from main menus.
※ Press the [<] button to exit the submenus to main menus.
※ Press the [∧] [∨]buttons to select the submenus as your need.
※ Press the [>] button to enter the items of submenus.
※ Press the [<] button to exit the items to submenus.
※ Press the [∧] [∨] buttons to select the items you want to change.
※ Press the [ENTER] button to confirm the item you have selected.
※ Press the [SETUP] button to exit the SETUP Menu and save all settings.

Notes:
ⓘ Effective only on DVD mode.

LANGUAGE SETUP

	LANGUAGE
Menu Language	> English
Disc Audio	> Original
Disc Subtitle	> Off
Disc Menu	> Original

‡ Move   ▶ Select

(LANGUAGE SETUP MENU)

LANGUAGE

Menu Language: This item is used to select Menu Language. It includes:

■ English	■ Deutsche	■ Greek	■ Pycckuu
■ French	■ Italian	■ Swedish	■ Chinese
■ Espanole	■ Polska	■ Czech	■ Korean
■ Magyar	■ Portuguese	■ Dutch	■ Japanese

Disc Audio: This item is used to select Disc Audio Language. It includes:

■ Original	■ English	■ Spanish	■ German
■ Italian	■ Portuguese	■ French	■ Russian
■ Chinese	■ Other		

Disc Subtitle: This item is used to select Disc Subtitle On or Off.

Disc Menu: This item is used to select Disc Menu Language. It includes:

■ Original	■ English	■ Spanish	■ German
■ Italian	■ Portuguese	■ French	■ Russian
■ Chinese	■ Other		

DVD SETUP MENU

DISPLAY SETUP

DISPLAY

TV Aspect	▶ 16:9
Display Mode	Widescreen
TV Output	NTSC

‡ Move   ▶ Select

(DISPLAY SETUP MENU)

DISPLAY ≫

TV Aspect: Which picture format appears on your TV depends on what kind of TV you have and the picture mode you TV is set to:

■ 16 : 9   ■ 4 : 3

Display Mode : This item is used to select Display Mode:
■ Windscreen for wide screen TV(Full Mode).
■ Letter box refers to pictures where black bands appear at the top and bottom.

TV Output: This item is used to select a TV Signal system to match your TV set. It includes:

■. AUTO   ■ PAL   ■ NTSC

AUDIO SETUP

	AUDIO
Dolby Digital	> Bitstream
DTS	> Bitstream
DRC	> On
Digital Output	> On

♦ Move   ·▶ Select
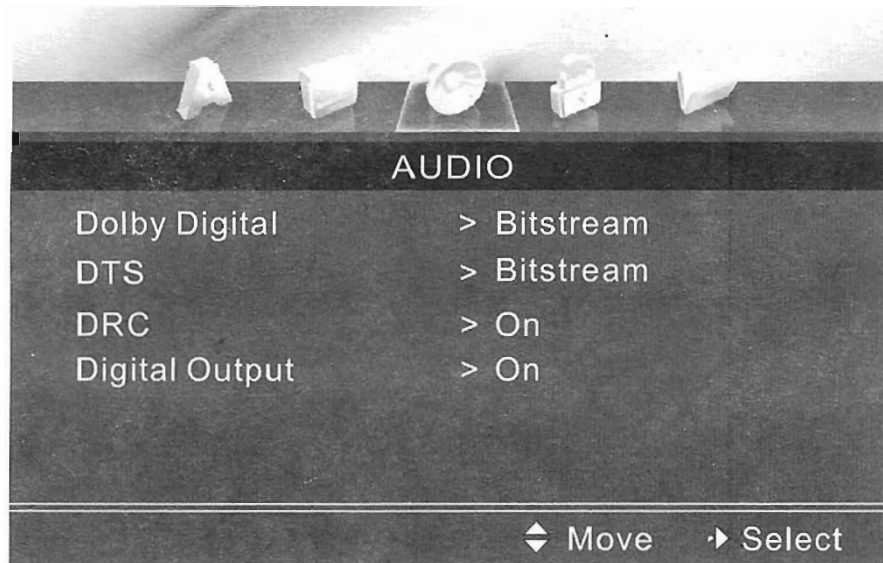
(AUDIO SETUP MENU)

AUDIO

When you begin to play a disc, the player will automatically select its default audio settings. You can also select the settings as you like:

Dolby Digital: You can switch it between Bitstream and PCM.

DTS: You can switch it between Bitstream and PCM.

DRC: You can switch On or Off of this function.

Digital Output: You can switch On or Off of this function.
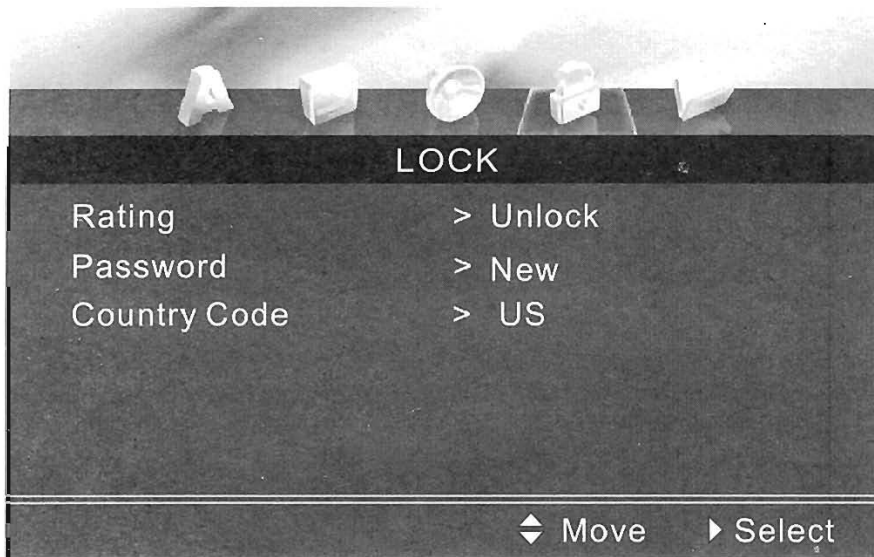
LOCK SETUP

(LOCK SETUP MENU)

LOCK

When you begin to play a disc, the player will automatically select its Default security settings. You can also select the settings as you like:

Rating: You can select the maximum rating of the disc by entering The password (default password is: 0000).

Password: You can change password in this item.

Country Code: You can change country code in this item(default country code is: US).

DVD SETUP MENU

OTHERS SETUP
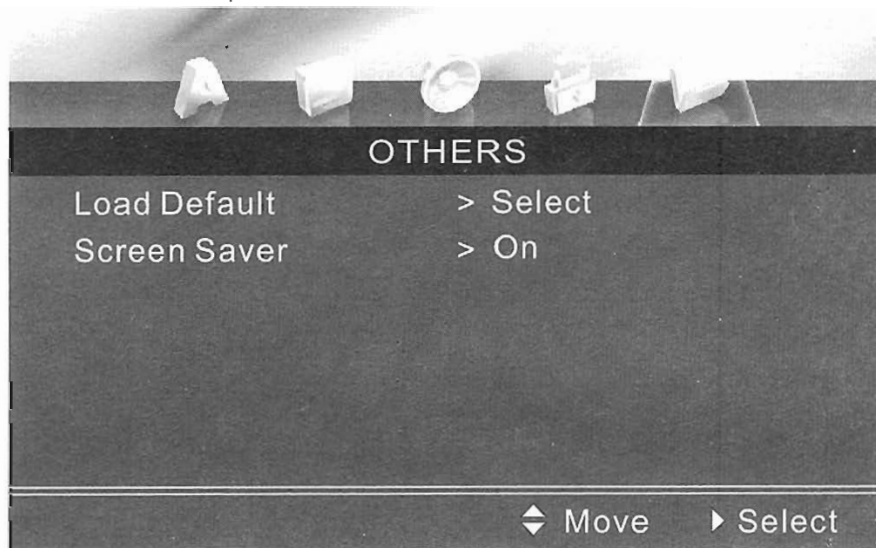
(OTHERS SETUP MENU)

OTHERS

Load Default: you can restore all default settings by selecting this item.

Screen Saver: you can switch On or Off screen saver in this item.

TROUBLE SHOOTING

If any of problem persists after checking the below list. Please consult your nearest service dealer. Never attempt to disassemble the and repair unit personally.

Problem	Cause	Corrective Action
GENERAL		
Unit will not power on	Radio Fuse blown Car battery fuse blown illegal operation	Install new fuse with correct rating Install new fuse with correct rating Press the RESET button located in the bottom right corner of the front panel
Remote control does not	Battery depleted Battery installed incorrectly	Replace battery with new one Remove battery and install correctly
No/low audio output	Improper audio output connection Volume set too low Speakers damaged Heavily biased volume balance Speakers wiring is in contact with metal Part or car	Check wiring and correct Increase volume level Review wiring diagram and check "MUTE" connection Replace speakers Adjust the channel balance to the center position Insulate all speaker wiring connections
Poor sound quality or distortion	Pirate disc is in use Speaker power rating not compatible with unit Speaker is shorted	Use original copy Connect proper speakers Check speaker contact
Tel-Mute malfunction	"MUTE" wire is grounded	Check that "MUTE" connection is not grounded and that it's properly insulated
Unit resets itself when engine is off	Incorrect connection between ACC and Positive battery wire	Check wiring and correct
TFT MONITOR		
Monitor does not open automatically	TFT Auto Open is turned of	Turn TFT Auto open on

TROUBLE SHOOTING

No image	Incorrect connection to parking brake wire PARKING is activated and parking brake is not engaged	Check wiring and correct Stop vehicle in safe place and apply parking brake
Flashing image or interference appears on screen	DVD is not compatible with current TV system settings Image blurred, distorted, or dark	Change setup to accommodate disc
Prolonged image or improper height/width ratio display	Improper video signal connections Improper aspect ratio setup	Check wiring and correct Use correct aspect ratio setting
Monitor stops at incorrect position	Moving path is blocked	Press OPEN key to restart monitor movement
TUNER		
Weak station searching	Auto antenna is not fully extended Auto antenna not properly connected LOCAL function is activated	Connect the auto antenna control cable properly Connect the auto antenna control cable properly Turn LOCAL function off
Cannot insert disc	Disc already inside unit	Eject current disc and insert new one
Disc does not play back	Disc is warped or scratched Disc is dirty or wet Incompatible disc is used Disc rating exceeds Parental Lock rating limit Disc region code is not compatible with unit Disc is inserted upside down	Use disc in good condition Clean disc with soft cloth Use compatible disc Change parental Lock settings to lower restriction Use compatible disc Change Parental Lock settings to lower restriction Use disc with proper region cod Insert disc with label side up
Image blurred, distorted, or dark	Disc is illegally copied	Use original disc
PBC cannot be used during VCD playback	PBC is not available on the disc	
No repeat or searching while playing VCD	PCB is on	Turn PCB off

MP3		
Interruption occurred during playback	Disc is dirty or scratched	Clean disc or replace
	File is damaged/bad recording	Recreate disc with good files
Incorrect playback message displayed	Message is longer than LCD can display	

Error Messages

Message Displayed	Cause	Corrective Action
Loading	Disc is being read	
No disc	Disc is dirty	Clean disc with soft cloth
	Disc is upside down	Insert disc with label side up
	Disc not present in loading compartment	Insert disc
Bad Disc	Disc is dirty	Clean disc with soft cloth
	Disc is upside down	Insert disc with label side up
Unknown disc	Disc format is not compatible with this unit	
Region Error	DVD is not compatible with region code of unit	
Error	illegal mechanism operation	Press EJECT key for 5 seconds to reset loading mechanism

SPECIFICATIONS

GENERAL
Supply Voltage   : 14.4 V DC(10.8-16 V DC Allowable)
Load Impedance   : 4 Ω
Max Power Output   : 45 W x 4
Tone Controls   : ±18 dB
                              Bass 100 Hz
                              Treble 10 KHz
Dimension (approx)   : Main Unit:163 x 178 x 50 mm(d/w/h)
                              AV Box:190 x 211 x 36 mm(d/w/h)
Mounting (approx)   : 315 x 235 x 155 mm(d/w/h)
Weight (approx)   : 4.2 Kg(AV Box Included)

FM Tuner Section
Frequency Range   : 87.5-107.9 MHz(USA)
                              : 87.5-108.0 MHz(Europe/China)
IF   : 10.7 MHz
Usable Sensitivity   : ⩽15 dBV
Stereo Separation   : ⩾27 dB(1KHz)
Frequency Response   : 20-10000 Hz

AM Tuner Section
Frequency Range   : 522-1620 KHz   (Europe)
                              : 531-1602 KHz   (China)
                                530-1710 KHz   (USA)
IF   : 450 KHz
Usable Sensitivity   : ⩽34 dBV

DVD Player Section
Signal System   : PAL/NTSC
Signal-to-noise Radio   : ⩾80 dB(1KHz)
Distortion   : ⩽0.5%

Monitor Section
Resolution   : 1440 (w)x234 (h) (RGB)
Brightness   : 400 cd/m^2
Contrast   : 300 : 1

Notes:
ⓘ Specifications and design are subject to modification without notice due to improvements in technology.

DISC NOTES

■ Disc formats supported by this player

DVD VIDEO   **DVD** VIDEO   **VIDEO CD**   **COMPACT disc DIGITAL VIDEO**   **COMPACT disc DIGITAL AUDIO**   **MP3 CD-RW**

(Only 12cm disc)

Handling and Cleaning »
- Dirty, dusty, scratched or warped discs will cause misoperation.
- Do not place stickers or make scratches on discs.
- Do not warp discs.
- A disc should always be kept in its case when not in use to prevent from damage.
- Do not place discs in the following places:
  1. Direct sunlight.
  2. Dirty, dusty and damp areas.
  3. High temperature places.
 4. On the seats or dashboard.

Disc Cleaning »
Use a dry soft cloth to wipe the surface. If the disc is quite dirty, use a soft cloth slightly moist with isopropyl (rubbing) alcohol. Never use solvent such as benzene, thinner or conventional record cleaners which may mar the surface of the disc.

Notes:
(i) A disc may became somewhat scratched (although not enough to made it unusable) depending on your handing it in the condition of the usage environment. These scratches are not an indication of any problem with the player.

Repairing New Discs with Rough Spots

A new disc may have rough edges on its inside and outside edges. If a disc with rough edges is used, the proper setting will not be performed and the player will not play the disc. Therefore, remove the rough edges in advance by using a ballpoint pen or pencil. To remove the rough edges, press the side of the pen or pencil against the inside and outside edges of the disc.
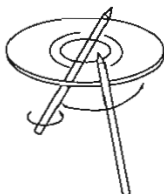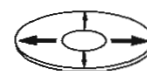

Label side up

Do not touch the underside of the disc

Do not bend

Wipe the disc from the centre toward edge

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