Instruction Manual

Dear customers:

Thanks for purchasing this product. To guarantee optimal performance and safety in using this product, please read this instruction manual carefully before connecting, operating or adjusting it. Be sure to keep this instruction manual in a safe place for future reference.

Content

Precautions

1. The power supply of this machine shall produce a voltage within the range of DC 12 – DC 15, out of which any voltage may cause damage to the machine.

2. Please do not expose this machine to rain or moisture as it is not waterproof.

3. As there is high voltage inside this machine, laymen are advised not to dismantle it under any circumstances. Should any failure occur, please entrust professional personnel or a service point of our company with the troubleshooting.

4. As this machine's display unit adopts a TFT color LCD screen, which belongs to the category of fragile glass articles, it is necessary to handle with care when transporting or installing the machine.

5. Please do not clean this machine with any corrosive chemical detergent. Use a soft cloth to wipe it clean if dirt is present.

6. For your safety, retract the display screen and stop watching any program when you are driving. Watching any program during driving is expressly prohibited according to law in most countries.
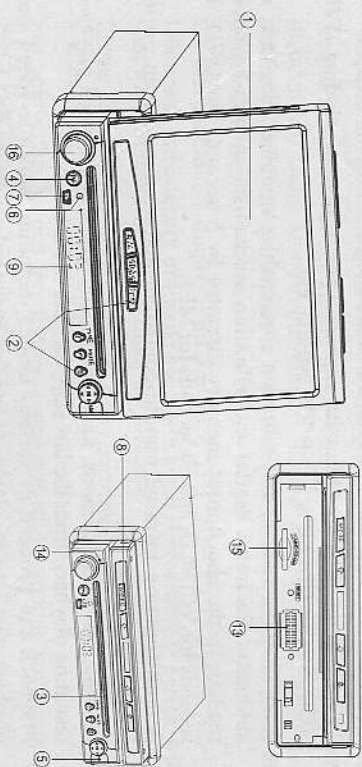
1

Main functions and characteristics

This machine features a new-generation DVD servo system and hence strong error correction capability, MPEG-2 decoding, and quality clear-cut images. It also adopts a built-in 7-inch 16:9 color TFT LCD display screen, which gives an excellent visual effect and vivid colors, and a built-in reception system for broadcasts in all TV systems and FM audio broadcasts.

★ This machine is compatible with various types of discs, including DVD, VCD, SVCD, CD, MP3, CD-R/RW, MPEG, etc.;

★ A superior mechanical anti-vibration core enables smoother playback; an automatic electronic digital anti-vibration mechanism enables advanced reading to the shockproof memory circuitry by 5 seconds for DVD, 15 seconds for VCD/CD, and 60 seconds for MP3;

★ A multifunction infrared remote controller and a menu-driven setting interface are available;

★ Multiple playback functions, including repetitive playback, timed playback, resuming playback from the last stop, etc., are available;

★ Playback can proceed in various modes including multiple-speed slow playback, fast forward playback, and fast backward playback;

★ This machine features stereo audio output upon 45W×4-channel amplification.

★ It also features video and audio input/output functions and when working in combination with a pickup camera, can be used as a rearview mirror for backing the car. It can also be used in homes, in which case a TV set and audio boxes can be connected to it to realize the effect of a home theater.

★ Broadcast reception in all TV systems (PAL/NTSC/SECAM: D/K, I, B/G, M);

★ FM radio broadcast reception (76MHz – 108MHz);

★ When used in combination with a wireless digital TV set-top box manufactured by our company, this machine can receive digital TV programs of high image quality (only applicable to regions with DVB-T program sources);

★ Large-capacity MPEG4-formated discs can be played;

★ A dual control panel display screen (LCD+TFT) makes operations more intuitive and convenient.

★ MP3/MP4 files playback form USB card direct.

★ **Touchscreen function**: all functions can be realized by Touch interface.

★ **Bluetooth handfree function**: Free of taking out your mobile phone any longer, thus improve the safety of driving when you drive and answer or call a telephone, to facilitate your work and life.
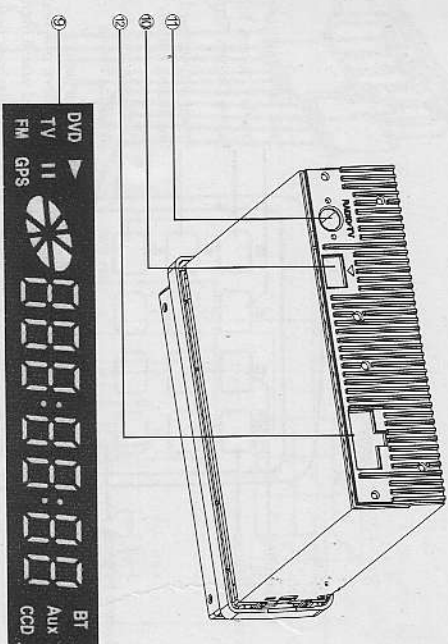
2

❖ Principal machine

(1) 7" Touch TFT color LCD display screen

(2) (8) Function buttons, which together enable the following combinations:

▶ Play/Pause button (▶II)

▶ Stop button (■)

▶ Buttons for playing the previous item/next item and changing the radio reception frequency (◄ ►)

RADIO: CH-, CH+

TV: CH-, CH+

DVD: I◄◄ ►►I

▶ Buttons for fine-tuning the upward/downward angle of the display screen (↑, ↓)

▶ Telescopic display screen IN/out button (⏏)

▶ Button for EQ, sound and system switching (R/L)

RADIO: EQ TV: YSY DVD: R/L

▶ Button for searching TV channels and switching between different radio stations (AUTO/RPT) TV:AUTO DVD:RPT

▶ Mode switching button (MODE)

▶ Clock display button (TIME)

▶ System resetting button (REST)*

▶ Fastback ward/fast forward, frequency fine-tuning buttonsc(◄ ▼)

RADIO: CH-, CH+ TV: CH-, CH+

DVD: ◄◄ ►►

▶ SD/USB mode switching (SD/USB)

3

❖ Principal machine
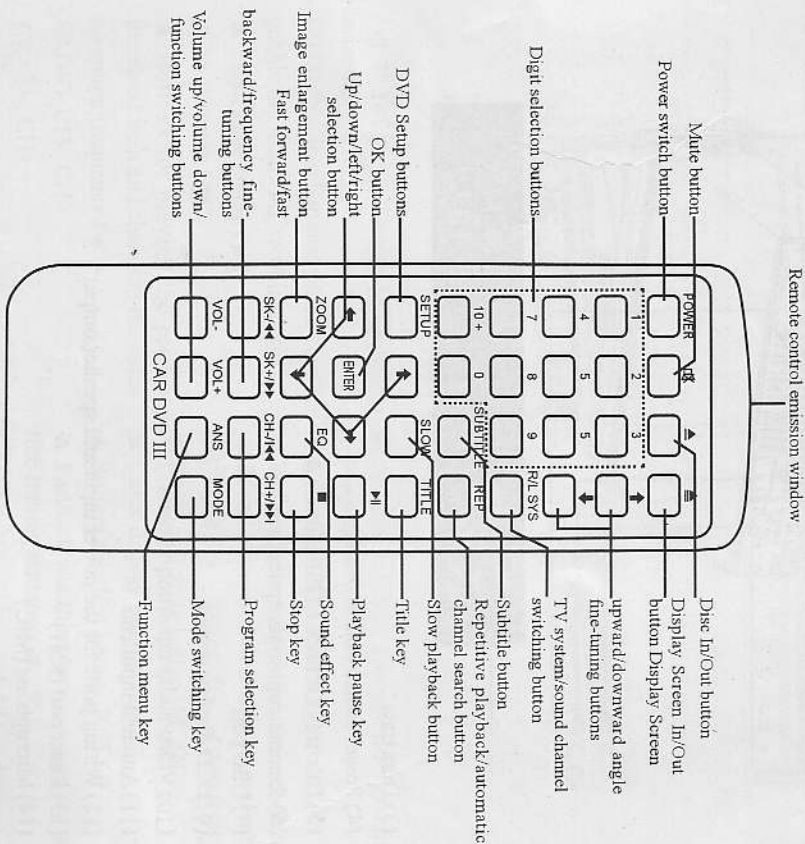

(3) Disc tray

(4) Power switch button (PWR)

(5) Disc tray OPEN/CLOSE button (⏏)

(6) Remote control reception window

(7) USB port

(9) LCD display screen

(10) Video/audio input/output ports

(11) Antenna input end

(12) Wiring ports for the power input and speaker output

(13) Reset port (RST)

(14) Microphone (MIC)

(15) SD card port

(16) Fold down detachable front panel

* Note: If this machine halts because of influence from the outside, thereby becoming uncontrollable, please use a small article for its insertion into the REST hole to press the button contained therein to reset the machine by restarting it.
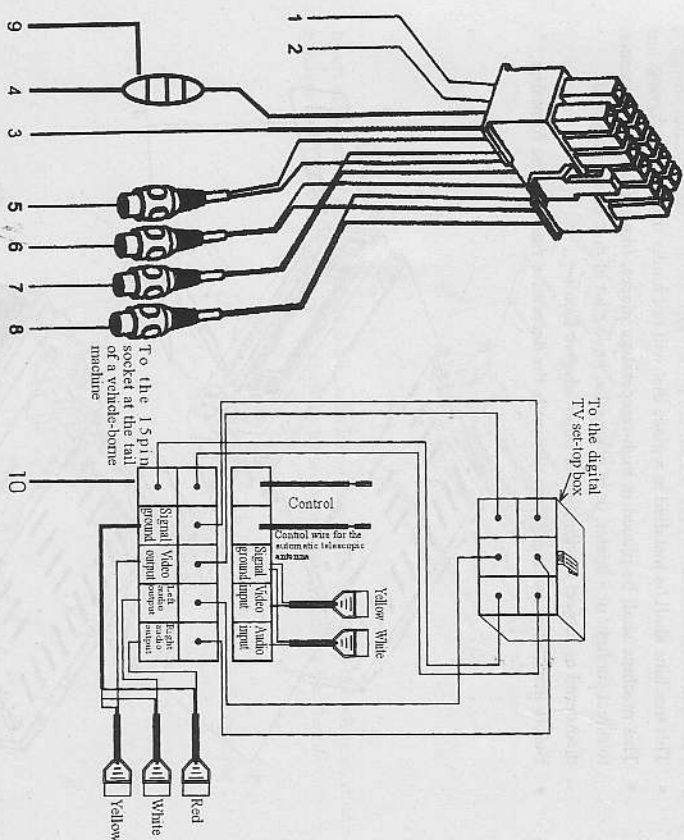
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Components' names and functions

❖ Remote controller

Remote control emission window

CAR DVD III

Components labels:
- Power switch button
- Mute button
- Digit selection buttons
- DVD Setup buttons
- Up/down/left/right selection button
- Image enlargement button
- Fast forward/fast backward/frequency fine-tuning buttons
- Volume up/volume down/function switching buttons

Right side labels:
- Disc In/Out button
- Display Screen In/Out button Display Screen
- upward/downward angle fine-tuning buttons
- TV system/sound channel switching button
- Subtitle button
- Repetitive playback/automatic channel search button
- Slow playback button
- Title key
- Stop key
- Sound effect key
- Playback pause key
- Program selection key
- Mode switching key
- Function menu key

OK button
ENTER
ZOOM
SK-/◄◄   SK+/►►
VOL-   VOL+
EQ
CH-/◄◄   CH+/►►
ANS   MODE
SETUP
SLOW   TITLE
SUBTITLE   REP
R/L SYS
POWER

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Components' names and functions

❖ Connecting wires

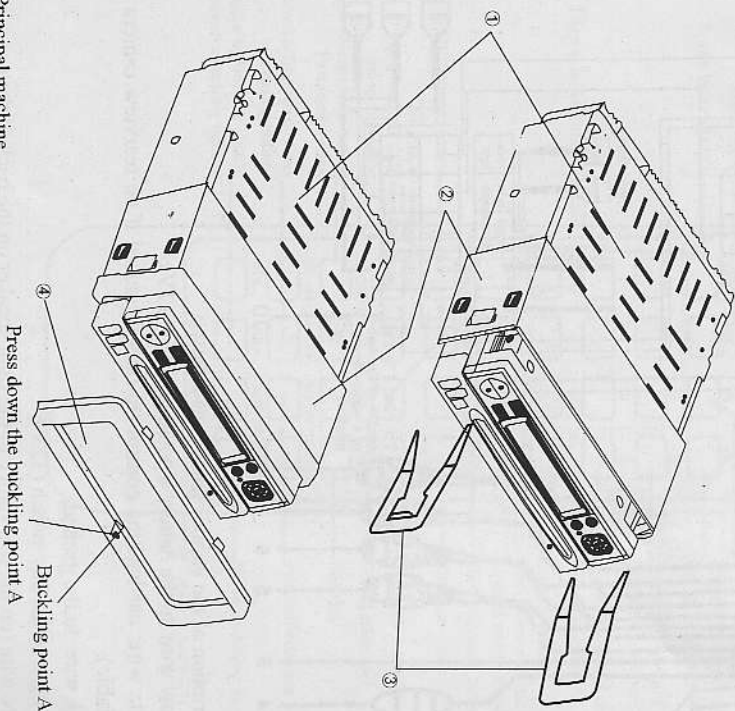A description of the various leads is as follows:

1. Yellow wire: to the battery's positive pole (+12V);
2. White wire: car-backing control (to be left unused if no rearview camera is available);
3. Black wire: to the ground;
4. Red wire: to the key switch (12V);
5. White wire (on the rear right): to the right speaker on the back of the car
6. Red wire (on the rear left): to the left speaker on the back of the car
7. Red wire (on the front left): to the left speaker on the front of the car
8. White wire (on the front right): to the right speaker on the front of the car
9. Black plastic box: fuse
10. 10P+5P plug cord

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Installation and wiring

❖ Installation

Installation

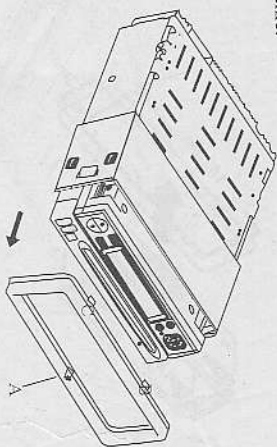Precautions before installation and use:

- This machine shall be installed in a place that will not hinder the driver's driving;
- This machine shall be placed in high-temperature places, like places with exposure to direct sunlight or a heater, or in places that have a lot of dust or are dirty and disordered or subject to vibration or other adverse factors;
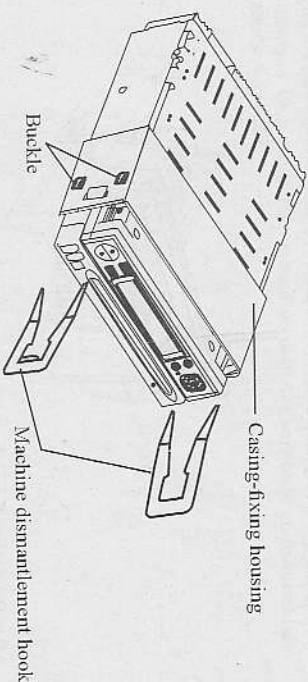- Before installation begins, please dismante the decorative frame on the front first.

Press down the buckling point A

Buckling point A

(1) Principal machine
(2) Casing-fixing housing
(3) Machine dismantlement hook
(4) External decorative frame of the complete machine
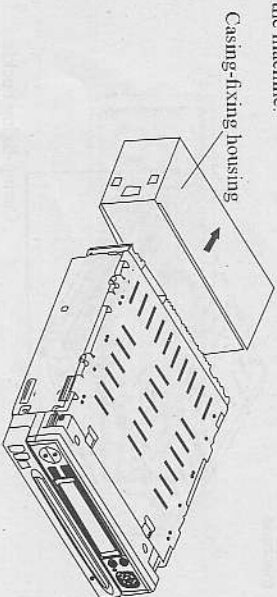
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Installation and wiring

1. Unpacking the packing case: Open the packing case to take out the machine. The first thing to do is to remove the external decorative frame by slightly pulling the buckling point A downwards to make it break away from the buckle B and then disconnecting the points B and C from the buckle.

Insert the Machine dismantlement hook, which comes with the machine, in both sides of the machine to let the buckle snap open. Then push the casing-fixing housing backward.
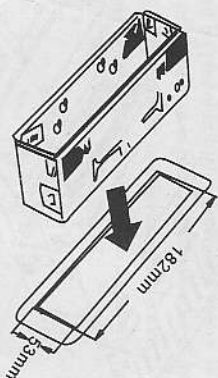
Buckle

Casing-fixing housing

Machine dismantlement hook

Finally complete the unpacking operation by pushing the casing-fixing housing backward to take out the machine.
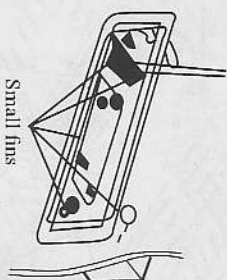
Casing-fixing housing

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Installation and wiring

2. Installing the machine: First determine the installation position in the car and select an installation frame, which shall have the standard dimensions of 182mm×53mm. Place the casing-fixing housing inside the frame.
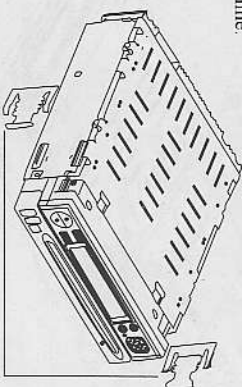
182mm

53mm

Use the screws to have the casing-fixing housing fixed and if necessary, bend the small fins to increase the housing's compactness with the car body (special attention: The casing-fixing housing must be firmly installed).
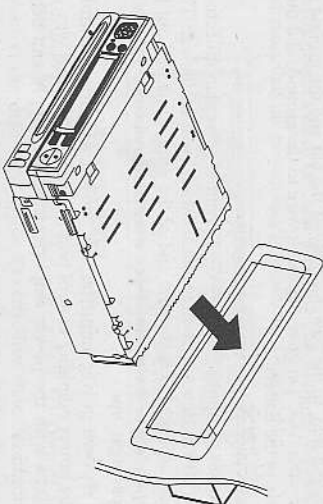
Small fins

After the casing-fixing housing is installed in place securely, check if the casing-fixing buckles on the two sides of the principal machine have come off before placing the machine in the housing. Be sure to mount the casing-fixing buckles on the buckling positions on the two sides of the machine.
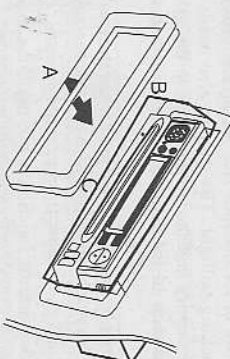
Casing-fixing buckle

Installation and wiring

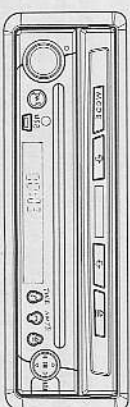Finally, push the principal machine slowly through the casing-fixing housing. The principal machine is buckled in place firmly when a snap is heard.

Note: Before pushing the principal machine in place, be sure to first connect the power cord, speaker lines, antenna, etc. Then mount the external decorative frame back on the machine and buckle up the points A, B and C.

A

B

Installation completed

Installation and wiring

◆ Wiring

(1) Connecting to the power supply:

Connect the red, yellow and black wires, leading out from the input end of the fuse box with a 12pin output line, to the power supply of the car and the ground respectively, the red wire to the car's ACC On gear, the black wire to the ground, and the yellow wire to the positive pole of the battery.

(2) Speakers and associated power amplification lines:

The machine comes equipped with a 45W×4-channel power amplification output, which can split out to power four speakers in the front and rear of the car. The only thing to do is to connect a speaker to the output end of the output line, led out from the correct position corresponding to that of the speaker, which may be the 'front left', 'front right', 'rear left' or 'rear right' one.

If the car has its own power amplifier, the 'power amplifier control wire' shall be connected to the power amplifier control port of the car. Only this way can the machine stay synchronized with the power amplifier's power supply and hence guarantee a reduced level of noise.

(3) Wiring for a car-backing rearview mirror(nonselective image switching under all circumstances)

The machine can be connected with a 12V color/black-and-white CCD or COMS camera for use as a rearview mirror in car backing. The wiring method is to connect the white connecting wire of the machine (for wiring for a backing lamp) to the power supply of the car's backing taillight. The camera also needs to be connected to the power supply and the ground wire to the ground. Then connect the aforementioned power supply and the ground wire to the video and audio input ports of the machine respectively.

Note: The white wire shall be used in wiring only when the car-backing rearview mirror function is expected of the machine. It shall be left unused in any other situations.

(4) Function of using video and audio input from external devices

If its car-backing rearview mirror function is not used, the machine can receive video input from external devices to realize its monitoring function.

The method goes as follows: Connect the video and audio inputs from the external device (VIDEO and AUDIO) to the 'Video Input' and 'Audio Input' ports at the 15pin socket on the machine (10pin+5pin; make sure that the white ' ▲ ' mark faces upwards) respectively; Then press the 'MODE' button on the front panel or the remote controller to switch the frame to 'AV2'.

(5) Wiring the antenna

The only thing to do is to connect the antenna or any other antenna (for example, for closed-circuit TV signal reception) to the 'Antenna Input' end on the machine.

(6) Wiring for a wireless digital TV set-top box (optional)

Insert the 6pin end of the 15pin-6pin connecting wire that comes with the machine to the digital TV set-top box and the 15pin end to the 15pin socket on the tail of the machine (making sure that the white ' ▲ ' mark faces upwards), and then press the 'MODE' key on the front panel or remote controller to switch the frame to 'AV1'.

Basic operations

◆ Startup

(1) Before starting up the machine, make sure that the various wires are connected properly to it and check if the power supply of the car is switched on.
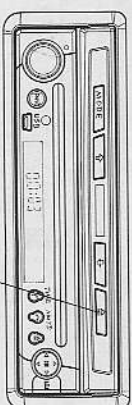
(2) Press down the power switch key and when the blue lamp on the machine's panel lights up, this indicates that the power supply is already switched on.
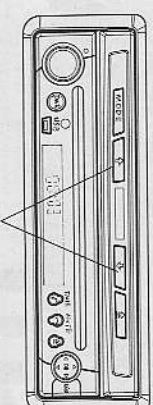

Power switch key

(3) Press the 'MODE' key to switch the operating mode to DVD mode and then place a disc on the disc tray. When the machine detects the presence of a disc, it automatically takes in the disc and begins to read it. If the disc is a CD, VCD or MP3 disc, the machine automatically starts playback from the first item. However, playback begins only after the OK or Play key is pressed upon a selection.

◆ Using the display scree

(1) To watch a video program, press the display screen in/out key and the machine automatically pushes out the display screen and turns it over to display images
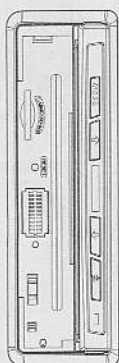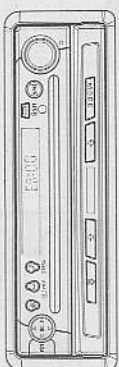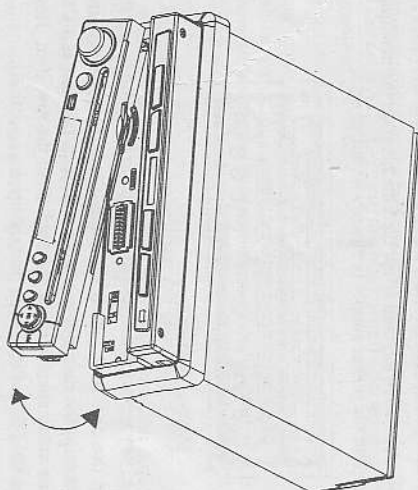

Display screen in/out key

(2) To change the vertical angle at which to watch a program, press the display screen upward/downward angle fine-tuning keys on the display screen.

Display screen upward/downward angle fine-tuning keys

Basic operations

(3) Fold down detachable front panel.

❖ A description of the function of each key

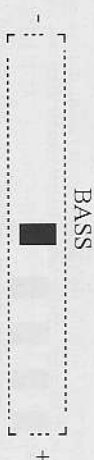(1) Function menu keys (A/ANS, V-, V+) Note: The 'A' and 'ANS' keys are identical in function.

① Volume adjustment: Press the "ASN" key first or Pressing the 'V-' or 'V+' key directly decreases or increases the volume. The display screen displays as follows:

```
■ ■ ■ ■
```
VOLUME   15

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Basic operations

② Bass adjustment: Press the 'ANS' key twice and when the screen display switches to the 'BASS' adjustment interface, press the 'V-' and 'V+' keys to decrease or increase the low-frequency component of the audio signals.

```
BASS
-                    +
```

③ Treble adjustment: Press the 'ANS' key thrice and when the screen display switches to the 'TREBLE' adjustment interface, press the 'V-' and 'V+' keys to decrease or increase the high-frequency component of the audio signals.

```
TREBLE
-                    +
```

④ Left/right sound channel adjustment: Press the 'ANS' key four times and when the screen display switches to the 'BALANCE' adjustment interface, press the 'V-' and 'V+' keys to move the cursor to the left or right to adjust the volumes of the left and right speakers. This helps to attain the optimal stereo acoustic effect.

```
BALANCE
L                    R
```

⑤ Fore-and-aft sound channel adjustment: Press the 'ANS' key five times and when the screen display switches to the 'FADER' adjustment interface, press the 'V-' and 'V+' keys to move the cursor to the left or right to adjust the volumes of the front and rear speakers. This help to attain the optimal stereo acoustic effect.optimal stereo acoustic effect.

```
FADER
F                    R
```

⑥ Contrast adjustment: Press the 'ANS' key six times and when the screen display switches to the 'CONTRAST' adjustment interface, press the 'V-' and 'V+' keys to decrease or increase the contrast of the display screen.

```
■ ■
CONTRAST          09
```

⑦ Brightness adjustment: Press the 'ANS' key seven times and when the screen display switches to the 'BRIGHT' adjustment interface, press the 'V-' and 'V+' keys to decrease or increase the brightness of the display screen.
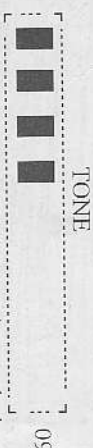
```
■ ■ ■ ■
BRIGHT            09
```

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⑧ Chroma adjustment: Press the 'ANS' key eight times and when the screen display switches to the 'COLOR' adjustment interface, press the 'V-' and 'V+' keys to decrease or increase the chroma of the display screen.

⑨ Tone adjustment: (Note: This item is available only in the NTSC system) Press the 'ANS' key nine times and when the screen display switches to the 'TONE' adjustment interface, press the 'V-' and 'V+' keys to decrease or increase the tone range of the display screen.

COLOR .... : 09

TONE .... : 09

⑩ Screen language selection: Press the 'ANS' key ten times and when the screen display switches to the 'LANG ENG' adjustment interface, press the 'V-' and 'V+' keys to change the language of the subtitle in use.

LANG ENG: English   LANG RUS: Russian

2) Play/Pause button (▶Ⅱ)
When the machine is operating in stopped, paused, slow playback, fast forward playback, fast backward playback or any other possible mode, pressing this key leads to the return to playback mode When the machine is in playback mode, pressing this key leads to a suspension of the ongoing playback. When the machine is being set or a selection is being made on the machine, this key serves to bring a selected option into force

(3) Previous Item/Next Item (CH-/I◀◀ CH+/▶▶I)
Pressing the '◀◀' key causes the machine to skip back to the playback of the previous chapter (item) while pressing the '▶▶' key leads to the playback of the next chapter (item) (Whether this function can be realized depends on how the disc was fabricated). When in TV/RADIO mode, the keys serve to select a desired channel.

(4) Stop/Return key (■/↑)
When any disc other than a DVD disc is being played and the machine is in the PBC ON state, pressing the '■/↑' key returns the system to the menu. When the machine is in the PBC OFF state or a DVD disc is being played, pressing the key once causes the machine to stop some time later and a second press of the key immediately following the first press leads to a complete stop.

(5) Repetitive Playback key and Automatic Search key (RPT/AUTO)
When playing a DVD disc, pressing this key causes the current chapter to be repeated, a second press of the key immediately following the previous press causes the content under the current title to be repeated, and a third press of the key cancels the ongoing repetitive playback. When any disc other than a DVD disc is being played, one press, two presses and three presses lead to the repetition of a single item, that of the entire disc, and the cancellation of the repetition respectively. The key serves to initiate an automatic channel search when the machine is in TV mode.

(6) Mute key (MUTE)
Pressing the 'MUTE' key causes the '✕' icon to show, and the sound to be muted. Pressing the key once again cancels the muted state.

(7) Sound channel switching key (R/L, EQ, SYS)
The key serves to switch the system among left channel playback, right channel playback and stereo playback modes when a disc is being played. It serves to switch the system between different TV systems when the system is in TV mode. The 'R/L' key functions as an EQ function key when the system is in radio reception mode.

(8) Mode key (MODE)
The key serves to switch the system among five modes in sequence,
|Including radio reception→TV→DVD→Video 1→Video 2|

(9) Fast backward/fast forward keys, frequency fine-tuning key (SK-/◀◀,SK+/▶▶)
Pressing this key causes the system to operate in fast backward or fast forward playback mode silently, with four speeds available for either mode. If the system is pressed again, the system returns to normal. The key serves to fine-tune the frequency when the machine is in TV or RADIO reception mode.

(10) Up/down/left/right function keys (▲, ▼, ◀, ▶)
When a disc menu or the system settings menu is being displayed on the screen and the system is in standby mode, a desired program or item can be selected by moving the selection mark with these keys.

(11) OK key (ENTER)
It is used to confirm the content selected or confirm the activation of any changes to menu functions.

(12) Setup key (SETUP)
It is used to set some normally constant parameters (for detailed information, please refer to the chapter of 'Setting up the DVD system').

(13) Title key (TITLE)
When a DVD disc is being played, pressing this key leads to a return to the DVD title menu. When a VCD disc is being played, the key is not valid.

(14) Digit keys (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10+)
These digit keys are used to select a karaoke item, a DVD chapter, time parameters, etc.; when the number of a item or chapter to be entered is greater than 9, the '10+' key needs to be pressed, followed by a press of the corresponding digit key. That is to say, this key is used to input the digit at the ten's place and each press of it causes the digit to increase by one.

(15) Slow playback key (SLOW)
Pressing this key causes the system to play the disc in slow playback mode silently. Each press followed the first press causes the system to play at a different speed. Pressing the '▶Ⅱ' key causes the system to operate in playback mode.

(16) DVD subtitle (SUBTITLE)
Each press of the subtitle language selection key causes the system to display the subtitle in a different language. The number of available languages depends on how the DVD disc was fabricated. This function is unavailable when a VCD disc is being played.

(17) Sound effect key (EQ)
Flat (standard), Pop (popular), CLASS (classic), JAZZ (jazz)

(18) Image enlargement key (ZOOM)

When the machine is in DVD mode, pressing the 'ZOOM' key leads to the image currently on display being magnified by 1.5, 2.0 or 3.0 times.

(19) Disc In/Out key (▲)

When a disc needs to be replaced, press this key and the machine ejects the disc out. Pressing this key again leads to the closing of the disc tray.
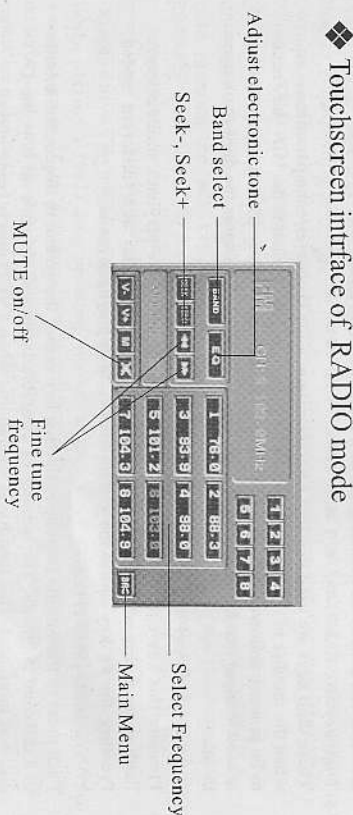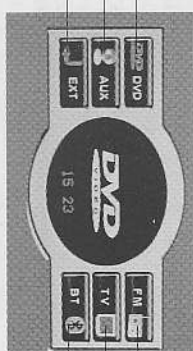
(20) Display screen In/Out key (▲)

It is used to eject or retract the display screen.

(21) Time display key (TIME)

When the machine is in any mode, pressing the 'TIME' key once causes the clock to show and this helps you know the current time. Pressing the 'TIME' key once again returns the system to the previous mode.(Auto come back to original status after 5'S)

❖ Touchscreen intrface of main menu

DVD mode

Exterior AV input mode

Eixt

Radio mode

TV mode

Bluetooth mode

❖ Touchscreen intrface of RADIO mode

Adjust electronic tone

Band select

Seek-, Seek+

MUTE on/off

Fine tune frequency

Select Frequency

Main Menu

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❖ Basic operations for analog TV reception

Automatic search

Mute on/off

Up&Down select stations

TV system select

Adjust electronic tone

Mode selet

1. Make sure that the antenna cable is already connected to the 'Antenna Input' end.

2. Turn on the power supply and press the 'MODE' key to switch the machine to TV mode.

3. To select a channel, press the (CH-, CH+) to select your favorite TV program.

4. To start a fully automatic search, press the 'AUTO' and the screen displays as follows:

VHF - L

Starting from channel 0, the machine searches channels and stores any channels searched in thefollowing sequence of wave bands: VHF-L → VHF-H → UHF. After the search is completed, the system returns to the first of the list of channels stored, which can contain as many as 80 channels. Before initiating an automatic search, the user is advised to verify the TV system of his/her locality and then to use the 'SYS' key to switch an ongoing automatic search. Pressing the 'AUTO' key once again can cancel the system to the correct TV system. Then press the 'AUTO' key tostart an automatic search. If the TV system is wrongly selected, sound and color will be missing forany channels searched.

5. Manual fine-tuning search (◄◄, ►►)

Press ◄◄ to start search backward or press ►► to start search forward, and the screen displays as follows:

VHF - L

Press ◄◄ or ►► continuously to start a backward or forward search so as to adjust the effect of TV reception to the optimal state.

6. Digit selection keys (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10+)

The digit keys on the remote controller are the keys for making a TV program selection directly. For any program numbered 10 or above, use the '10-+' key to switch the ten's digit to that of the desired channel before entering the channel number

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Basic operations

7. TV system switching (SYS)

The TV systems commonly adopted in different regions include: PAL-D/K, PAL-B/G, PAL-I, SECAM-D/K, SECAM-B/G, SECAM-L and NTSC-M/N. For example, the Chinese mainland adopts the PAL-D/K system, while Hong Kong, Russia and the United States use the PAL-I, SECAM-D/K and NTSC-M/N systems respectively. For more information on the national TV systems adopted in different countries, please refer to Attached Table 1. If the TV system is wrongly selected, there will be no sound or color.

❖ Basic operations for digital TV reception (attached)

For detailed instructions on using a wireless digital TV set-top box, please refer to the instruction manual for the optional accessory purchased for use with the set-top box.
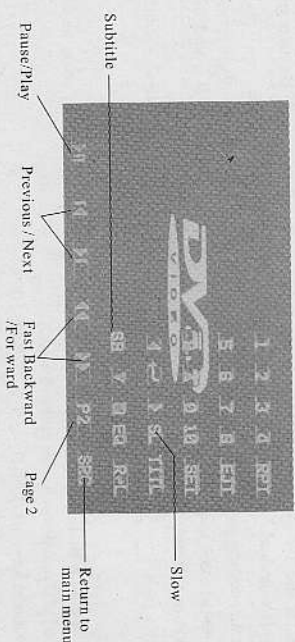
❖ Precautions in playing large-capacity MPEG4 discs

1. A MPEG4 disc can store dozens of TV installments or multiple movies and it takes a rather long time to read from such a disc for subsequent machine decoding. Please wait patiently.

2. The function of any remote control/control key may differ for a disc depending on the compression format adopted for the disc. For example, 'Fast Forward' is available for some discs when the '⏩' key is pressed whereas the function is unavailable for some other discs.

3. If a disc cannot be read by the machine a long time after it is inserted in the machine or the content in its 'folders' cannot be viewed or played, it is possible that there is no problem with the machine and maybe a PC is required to play the disc.

❖ Setting the clock

Press the 'TIME' key for about 2 seconds and when the small LCD display screen shows the time while blinking the display, press the 'V+' and 'V-' keys to modify the 'Hour' and 'Minute' values respectively. After the modification, press the 'TIME' key again to have the time set.
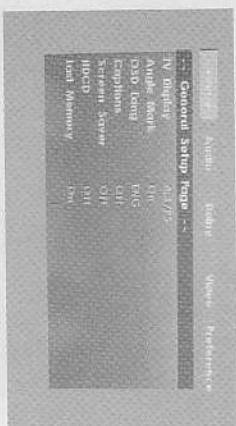
❖ Touchscreen interface of DVD mode

Subtitle

Previous / Next

Pause/Play

Fast Backward /For ward

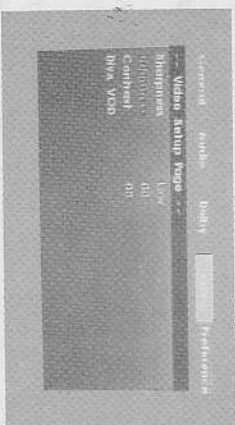Page 2

Slow

Return to main menu

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Basic operations

❖ Setting the DVD system

a) Press the 'SETUP' key continuously and the machine pauses playback to display the function setting menu:
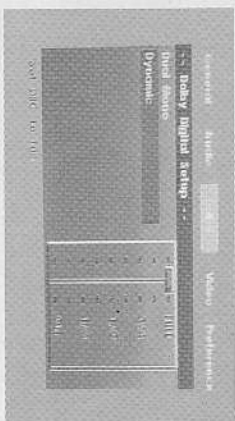
Use the 'Up' and 'Down' direction keys to make a selection and press 'ENTER' to confirm the selection. When the main menu displayed, the system will auto pause.

b) Press the ⬆ and ⬇ arrow buttons to highlight the icon of the desired page, then press the ⬅ or ➡ arrow button to activate that page; For example, if you want to setup the video page, press ➡ to highlight the video icon, the video page will be displayed on the screen.

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c) Press the ↓ arrow button to highlight the desired option. Press ENTER or press ➡ to select, the choices of that option appear on the right;

For example, press the ↓ arrow button to highlight the BRIGHTNESS option, then press ENTER to select, the brightness choices appear on the right.

d) Press the Arrow buttons to highlight the Exit Setup option, then press ENTER or MENU again to exit Setup Menu.
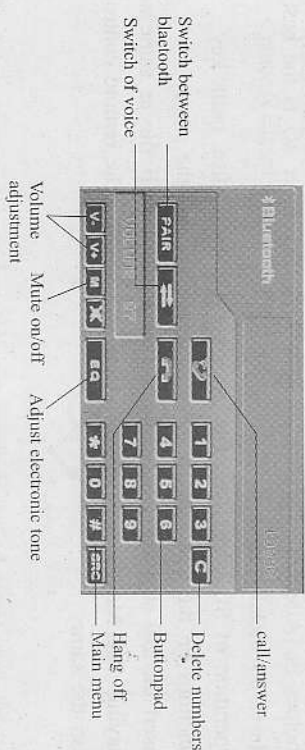
Notes:
- When setup, the pressing of the following buttons will turn off the setup menu, while the choices that have been changed will be saved: P / N, Subtitle, F.F, F.R, Vol +/-, PBC, Title, Play, Stop, Next, Prev, S.F, S.R, Zoom, Goto, Repeat, OSD, Mute, etc

You can select the contents according to the need using ⬅, ⬆, ⬅, ➡ key. Then press ENTER key to confirm.

① Set for the system: Including TV system selection, auto play ON/OFF, video output selection, screen image ratio, password Add/Free, (original password 136900), film play rating, etc

② Set for the language: Including the screen displayed language selection (6 inds), voice language selection (8 kinds), title language selection (8 kinds), the menu language (8 kinds), etc.

③ Set for the audio: Including digital output selection and tone adjustment.

④ Set for the video: Including brightness adjustment, contrast adjustment, tone adjustment, color saturation adjustment, degree adjustment, etc.

⑤ Function OFF not selectable.

⑥ Such as Dobbly digital setting: Including output mode selection, and dynamic range adjustment. Left + right track selection, etc.

❖ Touchscreen interface of bluetooth

Switch between bluetooth

Switch of voice

Volume adjustment   Mute on/off   Adjust electronic tone
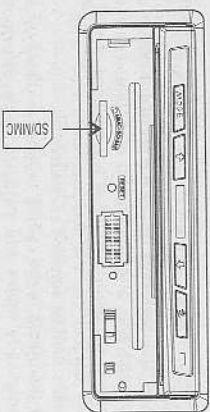
call/answer

Delete numbers

Buttonpad

Hang off

Main menu

1. Press MODE button on the panel or the remote controller, or "Bluetooth" in main menu of the touchscreen, and switch the system to the Bluetooth state and switch the mobile phone with the Bluetooth system to the Bluetooth state. Enter the password "8888" and press OK, and the system automatically will match pair, after the success of matching pair (after the success of the first matching pair, as long as the mobile phone is not replaced, it will not match pair in the future), dial a telephone number on the touchscreen. Faced with the sender, you can communicate and the volume shall be adjusted as needed.

2. When there is a caller (and there is the calling number to display), under the current work mode, the machine automatically mutes and switches to the Bluetooth interface; click the answer button, and you can call normally. (Not take out of your mobile phone; and see Introduction of Touchscreen for the functions of the buttons)
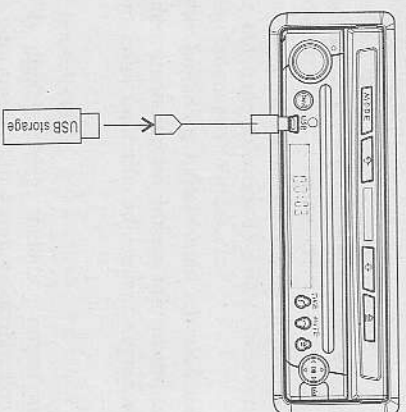
Operation of USB & SD/MMC card

① Press the MODE button to DVD mode, And press the SD/USB button to CARD MODE or USB MODE.

② Insert the SD/MMC card which you have copy the files, musics or photoes in. (Attention: The size of SD/MMC card under 4G is the best. The card's metal side must on downside).

③ Operation of SD/MMC card file as same as playing disc. main key functions on the unit and on the remote control also the same.

④ Insert the 2.0 standard USB storage. Operation of USB file as same as playing disk. Main key functions on the unit and on the remote control also the same.
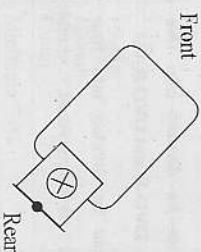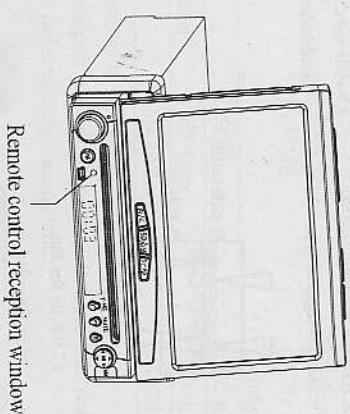
(a) CARD MODE

(b) USB MODE

USB storage

Basic operations

❖ Using the remote controller

(1) When loading or replacing a battery cell, make sure that the poles of the battery cell are properly aligned with the terminals inside the remote controller.

Front

Rear

(2) When operating the machine with the remote controller, please point the remote controller to the remote control reception window on the principal machine. There shall be no obstacles between the principal machine and the remote controller.

(3) If the remote controller is to be left unused for a long time, please remove the battery cell from the remote controller.

(4) If the remote controller can operate the principal machine only with difficulty even when they are very close to each other, please replace the battery cell.

Remote control reception window
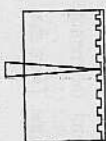
General information on DVD

(1) Literal meaning of DVD

DVD stands for Digital Versatile Disc in English. It is also believed by some people that the word of DVD stands for Digital Video Disc.
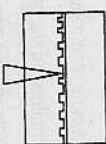
(2) Available DVD types

By purpose, DVD discs can be divided into five types, including DVD-ROM, DVD-AUDIO, DVD-VIDEO, DVD-R and DVD-RAM.
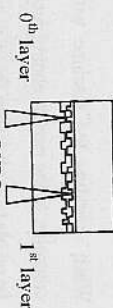
By volume, DVD discs can be divided into four types, including single-sided single-layered, single-sided double-layered, double-sided single-layered, and double-sided double-layered.
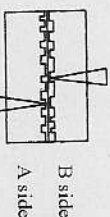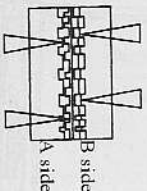
CD-ROM 650MB

DVD5
4.7GB for the single-sided single-layered type

DVD9
8.54GB for the single-sided double-layered type
0th layer 1st layer

DVD10
9.4GB for the double-sided single-layered type
B side
A side

DVD17
17.08GB for the double-sided double-layered type
B side
A side

General information on DVD

(3) Specifications of the DVD-VIDEO disc

The following table compares the physical characteristics and performance of a VCD disc against those of a normal DVD disc (12cm single-layered DVD).

Item	Parameters of VCD	Parameters of DVD
Thickness	1.2mm	1.2mm
Base plate's thickness	1.2mm	0.6mm
Mass	14-33g	13-20g
Diameter	120mm	120mm
Principal shaft hole's bore	15mm	15mm
Reflectivity	Minimum 70%	45-48%
Readout wavelength	780nm	650/635nm
Polarization	Circular polarization	Circular polarization
Numerical aperture	0.38-0.45	0.6 (object lens)
Direction of rotation	Counterclockwise (facing the readout surface)	Counterclockwise (facing the readout surface)
Linear speed	1.2-1.4m/s	3.4m/s
Capacity	650MB	4.7G (single-sided single-layered)
Playback time	74 minutes	135 minutes
Horizontal definition	240 lines	500 lines
Sound quality	44.1 KHz/16bit	48 KHz, 96KHz/16, 20, 24bit

(4) Functions supported by DVD discs

DVD discs support multiple functions. However, the functionality supported by a specific DVD varies with the manufacturer.

Regional code — Digital theater system — Dolby digital surround sound — Number of sound's languages — Number of sound's subtitles

Mode of frame scale variation — Password lockout — Viewing angle — CLOSE CAPTION recessive subtitle

(5) DVD's regional code

1st zone: Canada, U.S.A., Puerto Rico, Bermuda, Virgin Islands, and other Pacific Ocean islands

2nd zone: Japan, Western Europe (including Poland, Romania, Bulgaria, and Balkan countries), South Africa, Turkey and the Middle East (including Iran and Egypt)

3rd zone: Southeast Asia (including Indonesia and South Korea)

4th zone: Australia, New Zealand, South America, most countries in Central America, Papua New Guinea, and most South Pacific countries

5th zone: most of African countries, Russia (including the former Russian state), Mongolia, Afghanistan, India, Bangladesh, Nepal, Bhutan and North Korea

6th zone: Chinese mainland

(16) Functional characteristics of a DVD player

Because of its huge capacity and the adoption of advanced encoding technology, DVD adds a lot of unique functions on the basis of VCD.

1. Large capacity. Because a single-sided single-layered DVD has a capacity of 4.7G (1GB=1024MB), it enables over 2 hours' playback of quality movie. A double-sided double-layered DVD can accommodate about 8 hours' movie content.

2. Multiple languages. On a DVD disc, up to 8 languages (or sound tracks) can be offered at most. The specific number of available languages on a DVD disc depends on how the disc was fabricated.

3. Multiple subtitles. On a DVD disc, up to 32 subtitles can be stored for users' selection. The specific number of available subtitles on a DVD disc depends on how the disc was fabricated.

4. Multiple viewing angles. On a DVD disc, up to 9 different angles can be offered for the same picture frame. The specific number of available angles on a DVD disc depends on how the disc was fabricated.

5. Multiple sound channels. In each sound track of a DVD disc, up to 5.1 audio channels can be included. In most DVD discs, the DOLBY DIGITAL audio encoding method is adopted, while some discs even have DTS audio additionally.

6. Widescreen. TV images can be shown in two aspect ratios, 4:3 and 16:9. This configuration allows frame output to adjust to two different types of TV screen.

6. Parental control. With DVD, up to 8 grades can be defined according to movie content (some grades are not defined for the time being) for viewing restriction purposes. Any content that exceeds a grade set for the DVD player will not be played. The following is a checklist of the MPAA-defined video disc grades against their international equivalents.

MPAA grades	Parental control
Adult	8
NC-17 (under 17)	7
R (reserved)	6
PG-R	5
PG-13 (under 13)	4
PG (under 10)	3
G	2
G (child grade)	1

7. Copyright protection. DVD adopts technologies, such as regional codes, content scrambling (CSS encryption), video copying prevention, etc., for copyright protection.

Attached Table 1 – The color TV systems adopted by some countries in the world

System / Item	NTSC.M	PAL.N	PAL.B/G	PAL.H	PAL.I	PAL.D	SECAM.B/G	SECAM.D/K	SECAM.K1	SECAM.L.E
Number of scanned lines	525	625	625	625	625	625	625	625	625	625
Vertical frequency (Hz)	59.94	50	50	50	50	50	50	50	50	50
Horizontal frequency (Hz)	15734.264	15625	15625	15625	15625	15625	15625	15625	15625	15625
Image bandwidth (MHz)	4.2	4.2	5	5	5.5	6	5	6	6	6
Each channel's bandwidth (MHz)	6	6	B: 7 G: 8	8	8	8	B: 7 G: 8	8	8	8
Audio and image interval (MHz)	4.5	4.5	5.5	5.5	5.5	6.5	5.5	6.5	6.5	6.5
Color subcarrier (MHz)	3.58	3.58	4.43	4.3	4.43	4.43	foR=4.41 foB=4.25	Same as the one to its left	Same as the one to its left	Same as the one to its left
Vestigial sideband's bandwidth (MHz)	0.75	0.75	0.75	1.25	1.25	0.75	0.75	0.75	1.25	1.25
Mode of image modulation	AM negative polarity	Same as the one to its left	Same as the one to its left	Same as the one to its left	Same as the one to its left	Same as the one to its left	Same as the one to its left	Same as the one to its left	Same as the one to its left	AM positive polarity
Mode of sound modulation	FM	FM	FM	FM	FM	FM	FM	FM	FM	AM
Country or region	U.S.A., Venezuela, Taiwan of Chile, China, Columbia, Canada, Ecuador, Arab, Mexico, Guatemala, Japan, Dominica, Panama, South Korea, Philippines, Cuba, Salvador, Peru, Brazil	Argentina, India.	West Germany, India, United, Netherlands, Arab, Jordan, Emirates, Australia, Bahrain, Spain, Algeria, Italy, Sweden, Norway, Denmark, Switzerland, Portugal, Finland, Israel, Indonesia, Thailand, Malaysia, Pakistan, New Zealand, Libya, Yugoslavia, Sri Lanka, Bangladesh	Belgium (B)	United Kingdom (A), Ireland (A), Hong Kong, South Africa, Uganda	China	Egypt, Lebanon, Iran, East Germany, Saudi Arabia, Tunis, Albania, Mauritius, Libya	Iraq, USSR, Czech, Hungary, Bulgaria, Poland, Romania	Zaire, Niger, Madagascar, Senegal, Togo, Jierti, Gabon, R1unxion	France, Morocco

Simple failures and parameters

Problem encountered	Troubleshooting and precautions
The machine does not respond	Check if the power supply is switched on and if the power supply of the car is turned on.
No sound	The volume of the principal machine is set to the minimum position or the machine is muted.
No image on the display screen	Check the operating mode of the machine and press the 'MODE' key to conduct a mode switch if necessary.
Images or sound halt	The laser disc is poor in quality or very dirty. Please use quality discs.
The remote controller does not work	Check if there is any obstacle between the remote controller and the principal machine. If the battery cell is weak, please replace it with a new battery cell.
The display screen does not project out.	Switch off the car's power supply and try again.
The display screen does not retract	The display screen is deflected to the left or right. Turn the display screen to the midmost position.

△ TV audio part

Symptom	Causes
No image	Check if the channel is correctly selected. Start an automatic channel search again. Channels need to be reset when the machine is moved to a new locale.
No sound	Check if the audio system is corrected set. Check if the volume is correctly adjusted. The signal is so weak that the silencing function works.
Poor reception	Check if the car antenna is correctly erected. Check if the channel in question is correctly adjusted.
Dark images	If the brightness and contrast are correctly adjusted.
Unclear or unstable images	Check if the antenna is correctly erected. It is possible that the problem occurs because the signal in the locale is too weak.
Double images	Check if the antenna is correctly erected. It is possible that the problem occurs because the machine receives signals reflected by nearby high buildings or walls.
Snow	The machine may be disturbed by electromagnetic wave generated by the engines of automobiles or trains passing by, high-voltage lines, neon lights, etc.
No color	Check if the chroma is properly adjusted. The signal is so weak that the decolorizing function works.

Technical specifications and parameters

Product name:	7" TOUCH TFT LCD+BLUETOOTH+DVD/TV/FM Player/Receiver DA865-II
Power consumption:	18W as the average power consumption
Frequency response:	CD 20 – 20 KHz, DVD 20 – 44 KHz
Signal-noise ratio:	≥80dB
Audio output peak power:	60W×4
Video system:	PAL/NTSC/SECAM
Usable power supply:	12 – 15V
Display unit:	7-inch color LCD
Usable laser discs:	12cm or 8cm DVD, CD, VCD, CD-R, DVCD, MP3, SVCD, CDG, JPEG, MP4, etc.
External dimensions:	(length) 200mm × (width) 182mm × (height) 53mm Principal machine's weight: 2kg

Schedule of fittings

Fitting name	Quantity
Principal machine	1 set
Remote controller	1 piece
Connecting wires	2 sets
Instruction manual	1 piece
Camera	Optional
Machine dismantlement hook	2 pieces
Wireless digital TV set-top box	Optional