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### Before You Begin

Welcome to the In-Dash DVA-310X Automobile DVD Player Operating Guide. Before you begin, read the following warnings and notes carefully.

#### Warning!

To avoid serious harm or injury to you, others, the vehicle, or the remote control unit, follow the instructions below.

To avoid short-circuiting the electrical system:

- This product uses laser technology. Do not remove the cover. Exposure to hazardous radiation may result from procedures other than those specified in this guide.
- When replacing a blown fuse, disconnect all power supplies and power off the unit. Be sure to use the correct replacement fuse.
- If the unit shows signs of overheating or malfunction, power off the unit and consult your dealer immediately.
   Do not open the unit; there are no serviceable parts inside.

This unit uses high-quality electronic components and is manufactured under a stringent quality-control system. Properly maintain the remote control unit to ensure optimal performance:

- Replace the batteries regularly. To avoid damage to new batteries, do not use new and used batteries at the same time. Battery life is six months.
- Allow adequate air circulation to prevent internal heat buildup. Do not install unit near heat sources such as radiators or air ducts, or in a place subject to direct sunlight or excessive dust. If the internal temperature of the vehicle is extremely high, do allow a short cooling down period before operating the unit.
- Avoid strong magnets such as large loudspeakers

## 1 Before You Begin

- This unit may interfere with TV reception. This is not a malfunction of the unit or the TV. To watch a TV broadcast, turn off this unit.
- This unit was designed to be used with DVD audio discs, DVD-ROMs, CD-ROMs, and Photo CDs.
- Use the correct fasteners and connecting cables during installation to avoid fire hazard.
- See your authorized dealer if unsure how to proceed

Before installing this display system, ensure you are in compliance with local traffic rules and regulations.

Manufactured under license from Dolby Laboratories. "Dolby" and double-D are trademarks of Dolby Laboratories.

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INSTALLATION

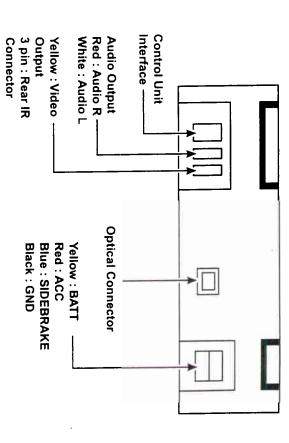
#### Precautions

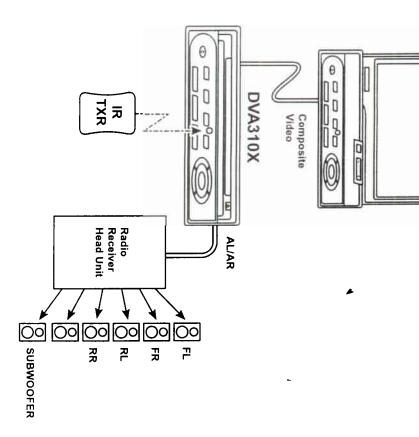
- 1 This unit should be installed by a qualified service technician.
- 2 This product is designed to operate with a 12-Volt, negative ground battery.
- 3 Disconnect the ground wire from the battery terminal before connecting this unit to the electrical system.
- 4 Other products or accessories may have wires that are color-coded similarly to those for this unit. Refer to the electrical diagrams of any other products before installation of the unit to avoid making wrong connections.
- 5 To avoid short-circuiting the electrical system, use proper insulation and fastening materials.
- 6 Do not connect the unit's yellow wire directly to the battery terminal. Connect the unit's red wire to the ACC of the ignition switch. Failure to connect the red and yellow wires properly may drain the vehicle's battery.
- To avoid damaging the unit, use only the accessories supplied with the unit.
- 8 Do not install this product in a position that may cause injury to passenger(s) during an accident.
- 9 Do not install this product in an angle exceeding  $\pm$  30 degrees.

#### 2 Installation

#### **Back Panel**

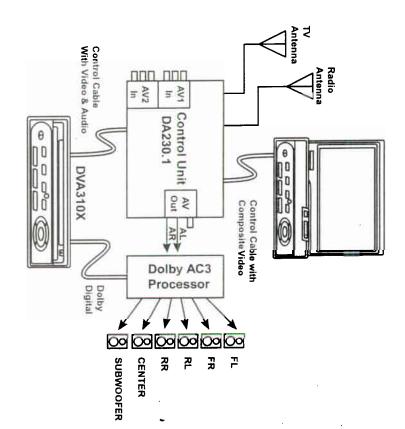
Refer to the figure below for Back Panel functions and wire connections.





#### 2 Installation

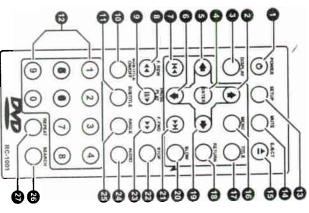
Installation with Control Unit, TFT Monitor and Dolby Digital Processor



#### Parts Overview

# Remote Control Reference

For Standalone Unit



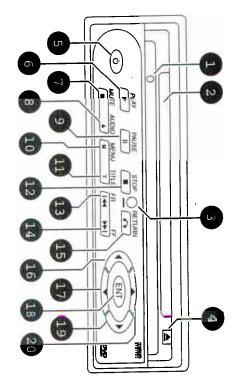
- POWER BUTTON
- SETUP BUTTON
- DISPLAY BUTTON UP CURSOR KEY
- LEFT CURSOR KEY
- **ENTER KEY**
- PREV/REVERSE SKIP BUTTON
- DOWN CURSOR KEY
- REVERSE SCAN BUTTON
- PLAY/PAUSE BUTTON
- 12 11 SUBTITLE ON/OFF BUTTON SUBTITLE SELECTION BUTTON
- $\vec{\omega}$ NUMERIC KEYPAD
- 14 EJECT BUTTON
- MUTE BUTTON
- MENU/PBC BUTTON TITLE BUTTON

- 18 RETURN BUTTON
  19 RIGHT CURSOR KE
  20 SLOW BUTTON
  21 NEXT/FORWARD SH
  22 STOP BUTTON
  23 FORWARD SCAN B
  - RIGHT CURSOR KEY

  - NEXT/FORWARD SKIP BUTTON
- AUDIO SELECTION BUTTON FORWARD SCAN BUTTON
- 24 ANGLE SELECTION BUTTON
- 25 26 27 SEARCH BUTTON
- REPEAT BUTTON

#### 3 Parts Overview

# Front Panel Control Reference



- 6 CURSOR RIGHT KEY 5 CURSOR UP KEY 4 EJECT BUTTON 3 REMOTE SENSOR 2 DISC SLOT 7 ENTER KEY 1 POWER INDICATOR
- 9 CURSOR LEFT KEY 8 CURSOR DOWN KEY 10 RETURN BUTTON
- 11 FORWARD SKIP BUTTON
  12 BACKWARD SKIP BUTTON
  12 STOP BUTTON
  14 TITLE BUTTON
- 15 MENU BUTTON
- 17 AUDIO BUTTON 16 PAUSE BUTTON
- 19 PLAY BUTTON 18 MUTE BUTTON
- 20 POWER ON/OFF BUTTON

### **Basic Functions**

#### DVD Playback (DVD)

- To turn power on, press the **POWER** button on the remote control or on the front panel.
- Insert a disc.
- DVD playback commences unless the disc includes menu selections. If the disc includes on or more titles, a menu screen appears on the monitor.
- Press the up, down, left or right arrow to select the preferred title.
- Press ENTER.
- To return to the menu screen, press MENU or TITLE.
- Press POWER to enter standby mode.

**Note:** The monitor displays INVALID when a corresponding operation is prohibited either by the player or by the disc.

**Note:** The monitor displays INVALID DISC if the DVD disc is incompatible with the unit.

# Audio or Video CD Playback (CD/VCD)

- To turn power on, press the POWER button on the remote control or on the front panel.
- Insert a disc.
- Press PLAY/PAUSE (II/u).

## 4 Basic Functions

# Video CD Playback Using Menus (Playback Control On)

This function works only with Video CD with playback control (Version 2.0).

- A Menu screen appears on the TV monitor after you insert a disc and press **PLAY/PAUSE** (II/u).
- Use the numeric keypad to select the desired track.
- Press the RETURN button to stop the playback and return to the Menu screen.

Use the following functions for Video CDs with Playback Control (PBC):

NEXT TRK uul: Move to the next menu (if available) or next track

PREV TRK ltt: Move to the previous menu (if available) or previous track

RETURN: Return to the previous menu

Note: Menu details vary.

# Video CD Playback Without Using Menus (Playback Control Off)

- Press the MENU/PBC button to turn off Playback Control (PBC). PBC OFF appears in the monitor.
- Press the desired track number button or press PLAY/
   PAUSE (II/u) to commence playback.
- Press the MENU/PBC button to return to playback control. PBC ON appears in the monitor. The menu (if available) appears in the monitor.

## Fast Forward (CD/VCD/DVD)

Press the **F.FWD** (▶) button during playback to toggle the unit between fast forward and regular play.

Audio CD playback has one fast forward speed.

Video CD/DVD playback has five fast forward speeds: 2, 4, 8, 16, and 32. Press the **F.FWD** button to cycle through these options and regular play.

## Fast Reverse (♠) (CD/VCD/DVD)

 Press the F.REV (♠) button during playback to toggle the unit between fast reverse and regular play.

Audio CD playback has one fast reverse speed.

Video CD/DVD playback has five fast reverse speeds: 2, 4, 8, 16, and 32. Press the **F.REV** button to cycle through these options and regular play.

# **Next Track or Previous Track (CD/VCD/DVD)**

 Press unl during playback to skip forward to the next track or to the next title/chapter each time the button is pressed.

SKIP FW appears in the monitor.

 Press Itt during playback to skip backward to the previous track or to the previous title/chapter each time the button is pressed.

SKIP BW appears in the monitor.

# Play / Pause (II/u ) (CD/VCD/DVD):

 Press the PLAY/PAUSE button to cycle from normal play to Pause modes.

#### 4 Basic Functions

## Slow Motion (VCD/DVD)

Press the **SLOW** button to play in Slow Motion Mode. The unit has 5 slow forward speeds: 2, 4, 8, 16, and 32. Press the **SLOW** button to cycle through these options and regular play.

#### Stop (CD/VCD/DVD)

#### Audio CD:

 Press STOP ( ) to stop the CD playback and enter Stop mode.

#### VCD/DVD:

- Press STOP ( ) to enter PRE STOP mode. PRE STOP appears on the monitor. The player records the point where the STOP button is pressed (Resume playback function).
- Press **Play / Pause** (II/u ) to resume normal playback from this point
- Press STOP again. STOP appears in the monitor and the resume playback function is cleared.

**Note:** Resume playback function is not available for Audio CDs.

#### Search (CD/VCD/DVD)

The Search function enables you to specify a time/ track/ chapter or title.

#### Audio CD:

Press SEARCH to cycle through the following options:

Track xx CD Time xx:xx

 Use the numeric keys to enter the desired track number or disc time. Press the ENTER button to play the selected track or time.

You can also use the numeric keys to enter the desired track without entering Search mode.

#### Video CD:

 Press SEARCH to cycle through the following search options:

Track xx
Time xx:xx:xx
[Blank monitor]

Use the numeric keys to enter the desired track number, or disc time. Press the **ENTER** button to play the selected track or time.

You can also use the numeric keys to enter the desired track without entering Search mode.

**Note:** The Search function is not available on Video CDs when PBC ON mode is activated.

#### DVD:

 Press SEARCH to cycle through the following search options:

Title xx
Chapter XXX
Time xx:xx:xx:
[Blank monitor]

Use the numeric keys to enter the desired title, chapter, or chapter time. Press the **ENTER** button to play the selected track or time.

You can also use the numeric keys to enter the desired track without entering Search mode.

## 4 Basic Functions

## Advanced Playback (CD/VCD/DVD)

**Repeat mode:** Press the **REPEAT** button to cycle through the following Repeat modes.

For Audio / Video CDs:

REPEAT ONE = The current track will be repeated.

REPEAT ALL = The current disc will be repeated.

REPEAT OFF = Repeat mode will be switched off.

**Note:** REPEAT is not available during Video CD Playback Control mode ("PBC ON").

For DVDs:

RPT CHAPT = The current chapter will be repeated
RPT TITLE = The current title will be repeated
REPEAT OFF = Repeat mode will be switched off

Camera angle (DVD): Some DVD discs contain scenes with more than one viewing angle. For these discs, the same scene can be viewed from a different angle by using the ANGLE button.

During DVD playback, press the **ANGLE** button. ANGLE x/y appears in the monitor, where x represents the current camera angle and y represents the total available camera angle.

Press the **ANGLE** button again until the preferred angle is selected. The ANGLE selection will cycle through all available camera angles.

**Note:** This function is only available on DVDs that contain multiple viewing angles.

**Audio function (VCD/DVD):** The audio function works only for discs that have multiple audio soundtracks.

During VCD playback, press the **AUDIO** button until the desired audio is selected.

During DVD playback, press the AUDIO button.

current audio stream and y represents the total available audio streams. AUDIO x/y appears in the monitor, where x represents the

selected. AUDIO will cycle through all available audio streams. Press the AUDIO button until the preferred audio is

Subtitle (DVD): During DVD playback, you may change setting to a different language, if available. the subtitle language from the one selected at the initial

SUBTITLE ON and SUBTITLE OFF modes Press the SUBTITLE ON/OFF button to cycle between

available subtitles selected. The SUBTITLE selection will cycle through all Press the **SUBTITLE** button until the preferred subtitle is subtitle and y represents the total available subtitles. appears in the monitor, where x represents the current selected, press the SUBTITLE button. SUBTITLE x/y During DVD playback with SUBTITLE ON mode

subtitle options. Note: SUBTITLE works only for discs that have multiple

Note: In some cases, the subtitle change is not immediate

DVD menu (DVD): Most DVD discs have unique menu structures. DVD menu contents and operation may differ from disc to disc.

menu available on the disc will be displayed During DVD playback, press the MENU button. The DVD

preferred option. Use the up, down, left and right arrows to select the

Press the ENTER button when the desired option is selected.

### 4 Basic Functions

Title menu (DVD): Some DVD discs may include more than one title.

the titles may be displayed f the disc includes title options. During DVD playback, press the TITLE button. A list of

preferred item. Use the up, down, left and right arrows to select the

selected. Press the ENTER button when the desired option is

enables you to view the status, current title number, track Display function (CD/VCD/DVD): The DISPLAY function number and the total playing time of the disc on the

Audio CDs:

information in the monitor: Press the **DISPLAY** key repeatedly to view the following

TTIME = Track time

DTIME TRTIME = Disc time = Track remaining time

DRTIME = Disc remaining time

Video CDs:

following information in the monitor: Press the **DISPLAY** key repeatedly to cycle through the

TTIME = Track time

TRTIME = Track remaining time

DTIME = Disc time

DRTIME Disc remaining time

#### DVDs:

Press the **DISPLAY** key repeatedly to view the following information in the monitor:

CTIME = C

CRTIME

= Chapter time

= Chapter remaining time

TTIME = Title time

TRTIME = Title remaining time

**Setup menu (DVD):** When the player is in Stop mode, press the **SETUP** button to modify some basic settings

Enter STOP mode and press the **SETUP** button. The Setup menu appears in the display.

Setup

(1) Disc Language
(2) Password
(3) Parental
(4) TV Aspect
(5) Digital Output

Use the up or down arrow keys or numeric keys to select the desired setup option, then press **ENTER**.

To exit, press the **SETUP** button. Each Setup option is described below.

Disc language

Use the up or down arrow keys or numeric keys to select the DISC LANGUAGE option from the Setup menu, then press **ENTER**. The following menu appears.

### 4 Basic Functions

Disc Language
(1) Audio
(2) Subtitle
(3) Menu

Use the up or down arrow keys or numeric keys to select an option, then press **ENTER**. When you select **AUDIO**, the following menu appears.

Audio
(1) Default
(2) Chinese
(3) English
(4) Japanese
(5) French
(6) German

Use the up or down arrow keys or numeric keys to select the preferred language, then press **ENTER**.

Press **RETURN** to return to the previous menu or press **SETUP** to exit Setup mode.

Password

While in STOP mode, press **SETUP**. The Setup menu appears.

Use the up or down arrow keys or numeric keys to select the PASSWORD option, then press **ENTER**. The change password menu appears.

Change Password
Parental
Password

Use the numeric keys to enter the original password, then press **ENTER**.

If the original password is entered correctly, you can now enter a new password.

Change Password
New

Password

If an incorrect password is entered, the menu will be shown again.

Use the numeric keys to enter a new password, then press **ENTER**.

The user is required to confirm the new password. Use the numeric keys to enter the same password again, then press **ENTER**.

The SETUP menu appears.

Parental Control

While in STOP mode, press the **SETUP** button. The Setup menu appears.

Use the up or down arrow keys or numeric keys to select the PARENTAL item, then press **ENTER**.

### 4 Basic Functions

Use the numeric keys to enter your password, then press **ENTER**.

If the incorrect password is entered, "INVALID" appears. If the correct password is entered, the Parental control menu appears.

Parental Control
(8) Kids Only
(7)
(6)
(5)
(4) No Adult
(3)
(2)
(1)
(0) View All

Use the up or down arrow keys or numeric keys to select the desired parental control, then press **ENTER**.

The Setup menu appears.

TV Aspect

While in Stop mode, press the **SETUP** button. The Setup menu appears.

Use the up or down arrow keys or numeric key to select TV ASPECT, then press **ENTER**. The TV ASPECT menu appears.

TV Aspect
(1) 4:3 Pan Scan
(2) 4:3 Letterbox
(3) 16:9 Wide

Use the up or down arrow keys or numeric key to select the preferred TV ASPECT option, then press ENTER. The Setup menu appears.

#### Digital Output

While in STOP mode, press the **SETUP** button. The Setup menu appears.

Use the up or down arrow keys or numeric key to select the DIGITAL OUT option, then press **ENTER**. The digital audio output options appear.

Digital Audio Out
(1) LPCM
(2) Dolby Digital
(3) MPEG

Use the up or down arrow keys or numeric key to select the preferred digital audio output, then press **ENTER**. The Setup menu appears.

#### 5 Specifications

## **Product Specification**

Power Connector	Input	Controller Interface Connector	Digital Audio Output	<u>Output</u> Video Output	CONNECTOR	Video S/N	TV Encoder Resolution	Playback Disc	Television System	VIDEO	Crosstalk	S/N ratio	Dynamic range	Distortion	Frequency response	AUDIO	Weight	Dimension (WxHxD)	Operating positions	Current Consumption	Power Supply	GENERAL	
: For external power supply inputs		: For connecting to control unit	<pre>and Audio 1 Vp-p (75 ohms terminated) : 1 optical transmitter</pre>	: 3 RCA connector for Video		: 65 dB	: 10 bit D/A C	: DVD/VCD/CD	: NTSC/PAL		: -75 dB	: 96 dB	: 96 dB	: 0.02% (at 1 kHz)	: 20 Hz to 20 kHz		: 2.0 kg	: 178 x 50 x 190 mm	: Horizontal mount only	: Less than 3.0 A	: 12VDCTypical		