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Owner's Guide
 Installation Guide



Slot-type DVD Player
 Model M-DVD-P3

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WHEN DRIVING

Keep the volume level low enough to be aware of road and traffic conditions.

WHEN CAR WASHING

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

WHEN PARKED

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

USE THE PROPER POWER SUPPLY

This product is designed to operate with a (+) 12 volt DC, negative ground battery system.

PROTECT THE DISC MECHANISM

Avoid inserting any foreign objects into the disc tray of this player. Failure to observe this may cause malfunction due to the precise mechanism of this unit.

REPAIRS

Do not attempt to disassemble or adjust this precise product. Please consult your authorized dealer for service assistance.

PLACEMENT

Avoid placing the player in areas of:

- Direct sunlight or heater vents.
- Excessive dust.
- Vibration impact.
- Surface tilt - the internal parts may be seriously damaged.

WHEN NOT IN USE

When not in use, set the player to standby mode.

AVOID WATER AND MAGNETS

Keep the player away from cup holders. If liquids are spilled into the player, serious damage could occur. Keep magnetic objects, such as speakers at a distance from the player.

STACKING

Do not place anything heavy on the player. Do not place the player on amplifiers or other equipment which may become hot.

CONDENSATION

Moisture may form on the lens in the following conditions:

- Immediately after a heater has been turned on.
- In a steamy or very humid vehicle.

NOTE: If moisture forms inside this player, it may not operate properly. In this case, turn the power on and wait about one hour for the moisture to evaporate.

SAFETY INSTRUCTIONS

CAUTION: MOBILE DVD PLAYER IS A CLASS I LASER PRODUCT. HOWEVER THIS MOBILE DVD PLAYER USES A VISIBLE/INVISIBLE LASER BEAM THAT COULD CAUSE HAZARDOUS RADIATION IF EXPOSED DIRECTLY. BE SURE TO OPERATE THE MOBILE DVD PLAYER AS INSTRUCTED. USE OF CONTROLS, ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE. TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.

REGION MANAGEMENT INFORMATION

This Mobile DVD Player is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this Mobile DVD Player, the disc will not play.

DISC FORMATS SUPPORTED BY THIS PLAYER

DVD
12Cm disc/ 8Cm disc
(Single-sided disc only)

COMPACT disc
Video CD
12Cm disc/ 8Cm disc
DivX

COMPACT disc
Super-VCD
12Cm disc

COMPACT disc
CD/MP3
12Cm disc/ 8Cm disc

DISC FORMAT NOT SUPPORTED BY THIS PLAYER

- DVD-ROM
- DVD-RAM
- CD-RAM
- CDV
- CD-G

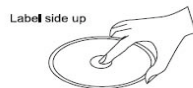
HANDLING AND CLEANING

- Dirt, dust, scratches, and warping discs will cause mis operation.
- Do not place stickers or make scratches on discs.
- Do not warp discs.
- A disc should always kept in its case when not in use to prevent damage.
- Do not place discs in the following places:
 1. Direct sunlight.
 2. Dirty, dusty, and damp areas.
 3. Near car heaters.
 4. On the seats or dashboard.

DISC CLEANING

Use a dry cloth to wipe the surface. If the disc is quite dirty, use a soft cloth slightly moistened with isopropyl (rub bing) alcohol. Never use solvents such as benzine, thinner, or conventional record cleaners as they may mar the surface of the disc.

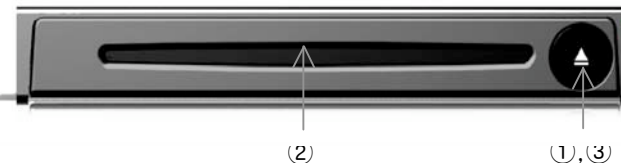
NOTE: A disc may become somewhat scratched (although not enough to make it unusable) depending on how it is handled and conditions in the usage environment. These scratches are not an indication of any problem with the player.



Front Panel Operation

FRONT PANEL FEATURES

- | | |
|-----------------|---------------------------------------|
| 1. Power Button | Turns the unit on and off (Hold 2sec) |
| 2. Disc Slot | Insert disc into the slot |
| 3. Eject Button | Open and closes the disc tray |



FRONT PANEL CONTROLS

- Power ON/OFF - Press POWER(1) to turn the unit on/off (Hold 2sec)
- Loading a Disc - Insert the Disc (Label side up) into the DISC SLOT(2)
- Ejecting a Disc - Press EJECT(1) and the disc will slide out.

Features

FEATURES

- Compatible with DVD-Video, SVCD, VCD, CDDA, MP3 and DivX discs.
- Compatible with PAL DVD and NTSC DVD.
- L,R stereo analog audio output (RCA) for connection to exiting head unit aux inputs or audio amplifiers.
- Audio digital to analog converter.
- Accepts double-layered discs.
- 10 bit video D/A converter reproduces images faithfully.
- Auxiliary inputs for use with optional video game console.

ACCESSORIES INCLUDED

- 1 Remote control
- 2 AAA batteries
- 1 External remote sensor
- 1 Owner's and installation guide
- 2 DC 12V power output cables
- 1 DC 12V power input cable
- 3 input/output RCA cable



Remote Operation



Remote Control Function

REMOTE CONTROL BATTERY

- **Battery Installation**
 - Pull down on the tab located on the back of the remote control and pull the battery cover off.
 - Insert the batteries while observing the correct (+) and (-) polarities.
 - Click the battery cover back into place on the back of the remote control.
- **Service life of batteries** - The batteries normally last for about six months, although this depends on how often the remote control is used.
- If the remote control until fails to work even when it is operated near the player, replace the batteries.
- Use 2 size AAA batteries.
- Do not drop, step on, or otherwise impact the remote control unit.
- Do not mix old and new batteries.
- If the remote control is not going to be used for a long time, remove the batteries.

REMOTE CONTROL OPERATION RANGE

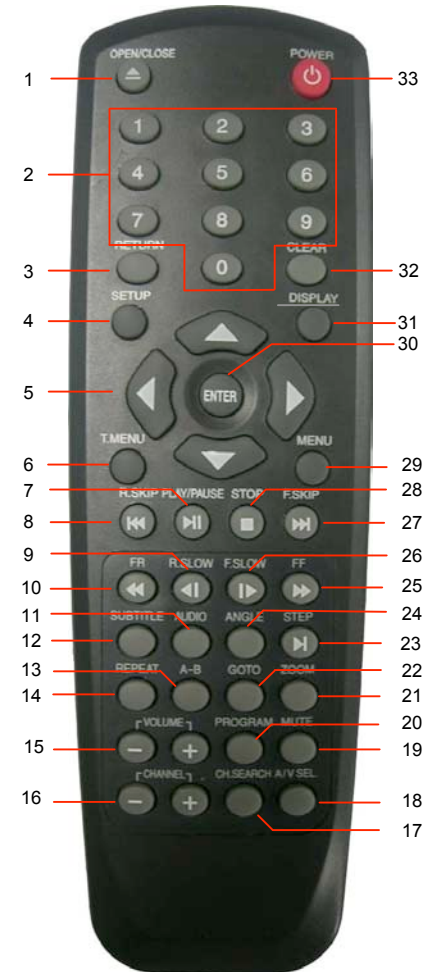
The remote control should not be used from more than about 23 feet(7m) from the remote control sensor. The operating distance may vary according to the brightness of the vehicle interior.

PRIOR TO USE

- During playback, the TV volume may be at a lower level than other source units. If this is the case, adjust the volume to the desired level
- Connect the DVD player according to the instructions in the Installation section of this guide.
- If the DVD player is connected to monitor through a VCR, the picture may not be played back normally. It is strongly recommended not connecting the DVD player through a VCR.
- Check the following before using the DVD player:
 - The monitor and audio equipment are properly connected to the player.
 - The power for the monitor and audio equipment is turned on.
 - The input setting for the monitor and audio equipment is properly selected.

BUTTON FUNCTION

- | | |
|----|----------------|
| 1 | Open/Close |
| 2 | Numerals |
| 3 | Return |
| 4 | Setup |
| 5 | Directional |
| 6 | Title Menu |
| 7 | Play/Pause |
| 8 | Reverse Skip |
| 9 | Rewind Slow |
| 10 | Fast Rewind |
| 11 | Audio |
| 12 | Subtitle |
| 13 | A-B |
| 14 | Repeat |
| 15 | Volume |
| 16 | Channel |
| 17 | Channel Search |
| 18 | A/V Select |
| 19 | Mute |
| 20 | Program |
| 21 | Zoom |
| 22 | Go To |
| 23 | Step |
| 24 | Angle |
| 25 | Fast Forward |
| 26 | Forward Slow |
| 27 | Forward Skip |
| 28 | Stop |
| 29 | Menu |
| 30 | Enter |
| 31 | Display |
| 32 | Clear |
| 33 | Power |





Operation in this section are common for all discs types (DVD,CD, Video CD, Super-VC D)

SWITCHING THE PLAYER ON/OFF

Press POWER(33) on the remote control to turn the player off mode.

PLAY DISC

1. Press Open/Close Button on turn on the player unit.
2. Holding the disc by its edge, slide it into the disc slot with the label side up. The disc begin playback automatically.
3. If the disc doesn't begin playback automatically, press PLAY/PAUSE(7) again

STOP DISC

Press STOP(28) once to stop play. Press PLAY/PAUSE(7) to resume playback.

REMOVE DISC

Press OPEN/CLOSE(1) to eject the disc for removal.

PAUSE/RESUME PLAY

Press PLAY/PAUSE(7) to pause play. Press PLAY/PAUSE(7) to resume play.

VOLUME CONTROL

The audio output volume can be controlled using the volume button. Press either VOLUME(15) button, and a volume bar graphic will appear in the OSD indicating the volume level. Press repeatedly or hold the volume button to raise or lower the volume.

SLOW REWIND/SLOW FORWARD

Slow motion playback can be done by pressing the FR(10) or FF(25) buttons during pause. Press PLAY/PAUSE(7) to resume playback at normal speed.

FAST REWIND/FAST FORWARD

Fast Forward play or fast rewind play through chapters/titles/tracks can be done using the FR(10) or FF(25) button during playback.

1. Press the right FF(25) button repeatedly to fast forward play at 2x, 4x, 8x, 16x and 32x normal speed.
2. Press the left FR(10) button repeatedly to fast rewind play at 2x, 4x, 8x, 16x and 32x normal speed.
3. Press PLAY/PAUSE(7) to resume playback at normal speed.

NOTE: Each time the button is pressed the rate of play will appear in the OSD

SKIP TRACKS/CHAPTERS

Moving forward or back a chapter or track at a time can be done by using the FSKIP(27) or RSKIP(8) buttons.

1. Press FSKIP(27) to advance to the next chapter/track on the disc.
2. Press RSKIP(8) to turn to the previous chapter/track on the disc.



REPEAT PLAY

Chapters and tracks can be repeated during playback. Press REPEAT(14) during playback to toggle through the following repeat functions.

- REPEAT CHAPTER/TITLE - Repeat the DVD Chapter or the audio CD title.
- REPEAT TRACK/ALL - Repeat the audio CD track.

TIMED REPEAT PLAY

Sections of chapters/tracks can be chosen and repeat with the A-B(13) button.

1. Press A-B(13) during playback; A will be displayed on the monitor. This will set the starting point of timed repeat.
2. Press A-B(13) during again; B will be displayed on the monitor. This will set the ending point of timed repeat. The player will then repeat the disc information between points A and B.
3. Press A-B(13) again to turn timed repeat off.

NOTE: Some disc recording software may not allow the timed repeat operation on certain discs.

MUTE AUDIO

Audio can be muted at any time during playback.

1. Press MUTE(19) to must the audio portion of the disc during playback.
2. Press again to resume audio playback.

ZOOM PLAY

Press ZOOM(21) during playback to enlarge the picture to its size. Then use the DIRECTION BUTTON(5) to move the picture. To return the picture to normal size, press ZOOM(21) repeatedly until OSD disappears in the picture.

ON-SCREEN DISPLAY

Press DISPLAY(31) at anytime to display information about the current disc in the player.

AUXILIARY INPUT

With the output of the auxiliary source connected to the auxiliary input, press A/V SELECT(18) to toggle through the available source. When in the auxiliary position, AUX will be displayed on the monitor and the signal from the auxiliary source (if powered on) will be displayed on the monitor. In the auxiliary position, volume will still be controlled with the remote control.



DVD OPERATION

■ TITLE MENU

The title menu has selections for disc playback setup that usually include audio, language, subtitles, playback, and special features. The available selections are determined by the recorded material on the disc.

1. Press T.MENU (6) on the remote and the title menu will be displayed.
2. Press the DIRECTION BUTTON (5) to highlight a title.
3. Press PLAY/PAUSE (7) to return to normal playback.

■ ROOT MENU

The root menu has selections for program playback including chapters and special features.

1. Press MENU (29) anytime to display the root menu.
2. Use the DIRECTION BUTTON (5) to highlight a menu item.
3. Press PLAY/PAUSE (7) to high playback.

■ SLOW MOTION PLAYBACK

A disc may be viewed in slow motion using the F.F (25) and F.R (10) buttons.

1. During still, press F.F (25) or F.R (10): Playback will continue at the rate of speed indicated on the display.
2. Press repeatedly to toggle through the available slow motion playback speeds.
3. Press PLAY/PAUSE (7) to return to normal playback speed.

NOTE: The rate of slow motion playback will be displayed in the On-Screen Display

■ FRAME ADVANCE

The picture can be advanced one frame at a time with the F.SKIP (27) OR R.SKIP (8) button.

1. During still, press R.SKIP (8) still playback.
2. Press .SKIP (27) repeatedly at this time to advance the image one frame at a time.
3. Press PLAY/PAUSE (7) to return to normal playback.

■ SUBTITLE OPERATION

During playback, subtitle can be turned on and off, and the subtitle language can be changed on disc with multiple subtitle language capabilities.

1. Press SUBTITLE (12) during playback: the subtitles indicator will be displayed.
2. Press the DIRECTION BUTTON (5) to scroll through the language selection.
3. Press SUBTITLE (12) clear the screen.

NOTE: If the subtitle are not displayed immediately, follow steps one and two until it is displayed.

If a disc that supports closed captioning is being played, the subtitles may overlap the closed caption on the monitor. Turn the subtitles off to avoid this.

■ VIEWING ANGLE

Many DVDs have scenes that are recorded from multiple angles. These scenes can be viewed from other angles by using the ANGLE (24) button.

1. Press ANGLE (24);
The angle the scene is viewed from will change and the angle mark will appear in on-screen display.
2. Press the DIRECTION BUTTON (5) to change to different viewing angles.
3. Press ANGLE (24) to clear the screen.

CD/VCD OPERATION

■ BASIC CD/VDC OPERATION

Stop Disc, OSD, Mute, Fast Forward/Fast Rewind, Play/pause, Volume, Skip Tracks, Audio Mode, and Repeat Play operate as described in the *Basic Operation SECTION* of this guide.

Load an Audio CD; the begin playback; the disc information will be displayed on-screen.

■ DISC PLAYBACK

Press PLAY/PAUSE (7) to begin playback;

the screen will show the track information. Some VCDs require number input.

MP3 OPERATION

■ BASIC MP3 OPERATION

Stop Disc, OSD, Mute, Play/pause, Volume, Skip Tracks, Audio Mode, and Repeat Play operate as described in the *Basic Operation SECTION* of this guide.

Load a disc with MP3 files into the player. The disc information will appear on screen.

Use the DIRECTION (5) buttons to move to the additional menu pages.

Use the DIRECTION (5) buttons to highlight an FOLDER or ROOT then press PLAY/PAUSE (7).

If an FOLDER is selected, then folder sub-menu will be displayed.

If ROOT is selected, the track titles will be displayed since there are no albums titled.

Use the DIRECTION(5) buttons to select the desired track and press PLAY/PAUSE (7) to begin playback.

During playback information will be displayed on screen.

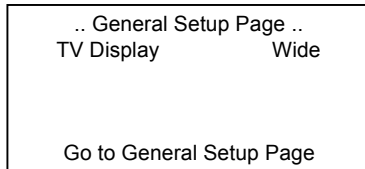


The setup menu contains settings for disc playback and should be used to adjust the DVD player according to the disc being played, personal preferences, to the type of equipment the DVD player is connected to.

NOTE: Make sure there is no disc in the player prior to accessing the Setup Menu.

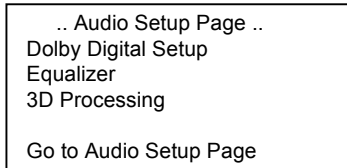
SETUP MENU

1. Press SETUP(4) to enter or exit the Setup Menu.

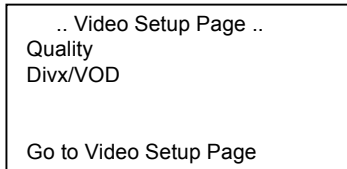


2. Use the DIRECTION BUTTON(5) to cursor a selection from the Setup Menu.
3. Press ENTER(30)button to enter the selections menu page
4. Use the ENTER(30) to highlight a selection in this menu page. As each selection is highlighted, a submenu of possible settings will be displayed to the right. Use the right DIRECTION BUTTON(5) to enter the submenu.
5. Use the DIRECTION BUTTON(5) to highlight a setting in the submenu, and then press the ENTER(30) button to confirm the setting.
6. Use the left RETURN(3) to exit the submenu.
7. To exit the Setup Menu at any time press the SETUP(4) button.

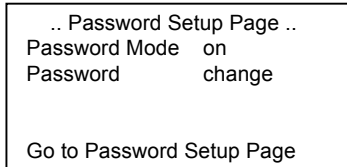
The Audio Menu allows the user to change three menu of audio type.



The Video Menu allows the user to change two menu of Video type or quality.



The Password Menu allows the user to Password on/off or password change.



Press SETUP(4) to exit the Setup Menu.



BASIC CONNECTION

- Do not block ventilation holes of the DVD player and arrange its so air can circulate freely.
- Read these instructions thoroughly before connecting audio and video cables.
- Ensure that you observe the color coding when connecting audio and cables.

REMOTE CONTROL

To install the external remote sensor, simply plug it into the REMOTE IN socket located at the rear of the DVD and route the sensor cable to the front of the vehicle, mount the sensor in a convenient location so that the remote control is in the line of sight of the external remote sensor.

- Before installing the unit, connect the wiring temporarily and test the system for proper operation.
- Use only the parts included with the unit to ensure proper operation. The use of unauthorized parts can cause malfunctions. Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden or emergency stop.

- Avoid installing the unit where it would be subject to high temperature, such as direct sunlight, hot air from the heater, or where it would be subject to dust, dirt, or excessive vibration.

NOTE: Do not mount the unit where it will be stepped on or where items will be placed on top of or spilled into the unit.

MOUNTING THE UNIT

This unit can be mounted by using the brackets supplied in the kit. Attach the mounting brackets mounting position of the player.

Always mount the player to a solid location to avoid possible vibration and shock

NOTE: The DVD can be mounted vertically or horizontally for greater versatility.



Installation

WIRING CONNECTIONS

1. POWER CONNECTOR
The RED fused power wire must be connected to a wire that has (+) 12 volts when the key is in the accessory position. The BLACK ground wire must be connected to a paint-free, clean metal chassis point, preferably scraped sheet metal.
2. EXTERNAL REMOTE CONTROL CONNECTOR
Insert the 1/8" pin plug for the External Remote Sensor eye into this socket.
3. VIDEO SIGNAL
Connect the YELLOW Composite Video RCA cable to this jack.
4. AUDIO SIGNAL
Connect the system L/R stereo Audio RCA cable to these jacks.

Troubleshooting

PROBLEM	SOLUTION
NO SOUND	<ol style="list-style-type: none"> 1. Using the remote control, make sure the volume is not lowered. 2. Check all audio cable connectors in the system for loose or improper connections. 3. Test system components for proper power and operation. 4. Make sure that none of the components is in MUTE mode.
NO PICTURE	<ol style="list-style-type: none"> 1. Check all video cable connectors in the system for loose or improper connections. 2. Test system components for proper power and operation. 3. Make sure the monitor is turned on and set to the proper channel or input zone.
NO REMOTE FUNCTION	<ol style="list-style-type: none"> 1. Remove any object that may be blocking the IR eye. 2. Make sure the remote IR eye is fully plugged into the connector on the rear panel 3. Test and replace any depleted remote control batteries.
PARTIAL OR DISPLAY	<ol style="list-style-type: none"> 1. Inspect the disc for damage or dirt. 2. Check the monitor power and video cables for loose connections. 3. Check the system setting to make sure all components are set for the same system type.
DISC WON'T EJECT	<ol style="list-style-type: none"> 1. Wait 10 seconds before pressing the EJECT button again. 2. If disc won't eject with the EJECT button on the front panel use the EJECT button on the remote control.

<u>Power Requirements:</u>	<u>DC +11V ~ +16V</u>
<u>Power consumption:</u>	<u>15Watts</u>
<u>DVD Load to Play:</u>	<u>12sec typical (Max. 18sec)</u>
<u>DVD Stand By to Play:</u>	<u>6sec typical (Max. 9sec)</u>
<u>Play to Eject:</u>	<u>6sec typical (Max. 8sec)</u>
<u>Composite Video:</u>	<u>1.0Vp-p(75Ωload)</u>
<u>Frequency Response:</u>	<u>48KHz Sampling:4Hz to 22KHz</u> <u>96KHz Sampling:4Hz to 44KHz</u>
<u>S/N Ration:</u>	<u>85 dB</u>
<u>Dynamic Range:</u>	<u>80 dB</u>
<u>Total Harmonic Distortion:</u>	<u>0.05%</u>
<u>Video input:</u>	<u>1.0Vp-p(75Ωload)</u>
<u>Audio input:</u>	<u>Line Input -8.8dBm, 47kΩ minimum</u>