Owner's Manual

This device complies with section 15 of FCC Regulations. Operation is subject to the following two conditions: (1) This device may not cause harmful interference (2) this device is subject to interference, including interference that may cause undesired operation.

Note : Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the authority to operate the equipment.

Note : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to section 15 of FCC Regulations. These limits are designed to provide reasonable protection against harmful interference in a residential area. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference with radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit, different from that to which the receiver is connected.
-Consult the dealer or an experienced technician for help.

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUCT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARA

FCC

WARNING

To reduce the risk of fire or shock hazard, do not expose this DVD player to rain or moisture.

NOTE

This product utilizes a laser. Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure. Do not open cover and do not personally attempt repair. Refer servicing to qualified personnel.

Contents

■ Do not remove the cover

To reduce the risk of electric shock and maintain quality of product, please do not remove the cover. Please follow the instructions on the wiring diagram of the Installation Guide.

■ Keep small articles out of the reach of children

Store small articles (screws etc.) in places not accessible to children. If swallowed, consult physician immediately.

■ Stop using immediately if a problem occurs

When problems occur, stop using the system immediately and contact the dealer from whom you purchased the equipment. Some problems which may warrant immediate attention include a lack of sound, noxious smoke being emitted from the unit, or foreign objects dropped inside the unit.

■ Do not operate the equipment while driving

Do not change settings while driving. If operation requiring a prolonged view of the display is required, stop the vehicle in a safe location before attempting operation.

■ Do not use this equipment outside vehicle.

Do not use this equipment for purposes other than those listed for a vehicle. Failure to do so may result in an electric shock or an injury.

■ Keep foreign objects out of the monitor compartment

Keep foreign objects out of the monitor compartment. Also, avoid placing your hands in the area where it might interfere with the monitor's operation.

■ Stop the vehicle before carrying out any operation that could interfere with your driving

If the operation of the unit (such as opening or closing of the monitor, etc.) interferes with your driving, stop the vehicle in a safe location before attempting operation.

■ Maintenance

If you have problems, do not attempt to repair the unit yourself. Return it to your purchasing dealer.

■ Turning On or Off

1. Pushing the OPEN switch forward will release the TFT-LCD monitor and it will drop down slightly.
   Pull the monitor downward until a comfortable viewing angle is reached.
   The internal friction will hold the screen in position while the system is in use.

2. Pressing the POWER button on the unit or the remote control will turn the system on or off alternately.
   When in use the internal backlighting will illuminate the controls.

3. After the unit has been turned on and is displaying a picture, adjust the viewing angle by pivoting the screen to optimize the picture quality.

4. Remember to turn the unit off and pivot the LCD to the locked position when not in use.

■ Connect Additional AV Input

1. AUX Video Input
   The unit will accept an audio/video input through the RCA jacks located on the side of the unit.
   The audio/video device could be a video game system, Video Cassette Recorder(VCR), or other input device.

■ Region Code

1. Both the DVD player and disc are coded by region.
2. These Region Code number must match in order for the disc to play.
3. This unit's code number is region number 1. Other Region Codes cannot be played in this unit.
   If the disc is not Region 1, the unit will display "Invalid Region."
4. Types of Discs your DVD will play :

   DVD disc - DVD disc which contain video.

   Audio disc - Audio CD contain musical or sound content only.

   MP3 disc - A disc that contain audio files (for example, a CD-R with MP3 files).

   VCD disc - VCD disc which contain video.

■ FM Transmitter Mode

1. If this unit has FM Transmitter function, please adjust the FM frequency to hear.

Before Operating the Unit

Disc

Use discs with one of the following labels.
Check disc label or the mark on the jacket.

■ DVD Video

- Single - or double - sided disc
- Single - or double - layer disc
- Dolby Digital, MPEG or Linear PCM Digital Audio
- MPEG-2 Digital Audio

■ **DVD-R, DVD-RW, DVD+R, DVD+RW**

- Can play DVD-R/RW, +R/RW discs that contain DVD video format. However, discs created on a certain brand or type of DVD recorder may not be recognized.

■ Audio CD, CD-R, CD-RW

- 12cm or 8cm disc
- Linear PCM Digital Audio
- Can play CD-Audio and MP3 audio files recorded on CD-R and CD-RW. However, discs created on a certain brand or type of CD recorder may not be recognized.

■ Picture CD

- 12cm disc Kodak Picture CD

■ MP3 disc

- Can only play CD-R/RW discs that contain MP3 files with ISO9660 or JOLIET format.
- Can only play files compatible with MPEG-1 Layer 3 Audio of 32, 44.1 or 48㎑ sampling frequency, mono or stereo.
- Can play Variable Bit Rate (VBR) files. (e.g., 32 to 320Kbps)
- Can play multi-session discs.
- Can play audio files encoded at 48Kbps to 320Kbps. For CD quality sound, use files encoded at minimum 128Kbps.

■ Region Code

- Every DVD disc bears on its case a Region Code, which indicates where in the world the disc can be played. All DVD systems also carry the Region Code on the back. DVD discs can only be played on a system with a matching Region Code. Discs with the "ALL" mark can be played on any DVD player.

■ Disc Handling

- Keep disc free of fingerprints, grease or dust.
- Protect disc from scratches.
- Do not touch the surface of the disc when inserting or removing it.
- Do not bend or deform disc.
- Keep away from heat.
- Do not deform the inner ring (doughnut hole).
- Do not write on surface of disc with pen or pencil.
- Do not store disc in a humid or dusty place.
- When cleaning disc, use non-abrasive soft cloth. Start from the center moving outward.
- Do not use paint thinner, benzene, industrial strength detergent, or chemical spray.

■ Note during play
- Do not insert another disc. This may cause damage to the disc or the player.
- While the disc is playing, it spins at high speed. Do not use the disc if it is cracked, bent or otherwise damaged. It could cause the player to malfunction.
- Do not use a disc with a sticker or label glued on it. They may come off inside the player and cause damage to the disc or cause the player to malfunction.

■ Remote Control Battery Installation
  Install battery before operating the player.
- Open the battery lid.
- Insert batteries. (AAA type)
  Make sure the (+) and (−) signs on the batteries match those of the remote control.
- Close the battery lid.

■ Using the Remote Control
  For proper operation, make sure the remote control is within 5m from the remote control IR (Infrared) sensor and within 30° to the left and right of the sensor.
- Make sure there are no obstructions between the remote control and the player.
- Do not apply excessive force to the remote control.
- Do not keep the remote control in extreme heat or in damp places.
- Do not drop water on the remote control or leave wet objects on it.
- Do not disassemble the remote control.
- When not in use, leave it still.

Note
- Only use the remote control as specified in this manual.
- Do not install batteries the wrong way.
- Do not keep dead batteries in the remote control.

Main Unit

① DISC INSERT SLOT
② POWER Button
③ PLAY Button

④ Auxiliary A Input
⑤ EJECT Button
⑥ STOP Button
⑦ IR (Infrared) Remote Sensor Eye
    - Allows the remote control to operate and control other accessories in the system
⑧ IR (Infrared) Transmitter
    - Used to transmit audio to wireless headphones
⑨ Three position FM Modulator Switch
    - On: Turn on the FM Modulator. Make sure the FM radio is set to the desired frequency.
    - Off: Turns the FM Modulator off. FM radio will operate normally.
⑩ Open Switch
    - Moves in the direction of the arrow to release the flip-down screen.
⑪ Flip-down LCD Panel

Remote Control and Buttons

□ Open/Close button (OPEN/CLOSE)

Loads and unloads the disc.

□ Setup button (SETUP)

Sets up all functions of the system.

□ Power button (POWER)

Turns the player on or puts it in stand-by mode.

□ Numeric keypad

Moves to desired track or chapter.

□ Title button (TITLE)

Displays the top level menu of the disc.

□ Menu button (MENU)

Displays the disc menu.

□ Return button (RETURN)

Returns to the previous menu.

□ Mute button (MUTE)

Mutes sound.

□ Navigation buttons

Used to navigate through menu options.

□ Clear button (CL)

Cancels selected function.

□ Enter button (ENTER)

Sets up or select functions.

□ Stop button (■)

Stops play.

□ Pause button (►II)

Pauses and resumes play.

□ Frame Advance button ( )

While in Pause mode, advances a frame forwards or backwards.

□ Skip button ( )

Skips one page or to next song.

□ Fast Forward button ( )

Fast search forwards and backwards. Each time pressed, speed increases.

□ Slow Motion Play button ( )

While in PAUSE mode, plays in slow motion forwards and backwards.

□ GOTO button (GOTO)

Looks up desired content directly.

□ Subtitle button (SUB-T)

Selects the subtitle language during play.

□ Audio button (AUDIO)

Selects the language of the audio during play.

□ Camera Angle Selection button (ANGLE)

Selects the camera angle on screen.

□ Display button (DISPLAY)

Displays play information on screen.

□ Section Repeat button (A-B)

Sets specified sections of the disc to repeat.

□ Memory Play button (PROGRAM)

Plays specified sections repeatedly.

□ Zoom button (ZOOM)

Enlarges the screen.

□ Monitor Menu button (MONITOR)

Displays monitor menu.

□ Play Mode Selection button (PLAY MODE)

Repeats disc (chapter, title, track, or entire disc).

□ 3D (3D)

Simulates 3D audio on a pair of speakers.

□ AUX (AUX)

Selects external A/V input mode.

□ AUDIO ONLY (AUDIO ONLY)

Sound only.

□ Brightness Control button (DIMMER)

Controls the brightness of the display.

□ Volume buttons (VOL- VOL+)

Increases or decreases volume.

Playing DVD Disc

■ Before playing DVD
  Make sure the DVD Region Codes on the disc and on the
  player match. The disc will not play unless they match.

■ Playing disc
- Press POWER button (⬭)

- Gently insert disc with recorded side facing down.

- When disc is inserted, it will begin to play automatically.
  When the disc menu appears, use the Navigation arrows
  and Select button, or the Numeric Keypad to select the
  menu options. The selected menu option will play.

■ Basic Play Controls

Play/Pause (▶�㎜ㅁ) : Starts playing or to pauses a playing disc.

Stop (■) : Stops playing disc.

Backward Search (◀◀) : Searches backwards at high speed.

Forward Search (▶▶) : Searches forwards at high speed.

Jump Backward (�K)

: Skips to the beginning of the current track or chapter.

Jump Forwad (▶▶|) : Skips to the next track or chapter.

■ Basic Disc Menu Control

DVD discs include a menu. When playing a disc, menu options appear automatically. For some discs you may need to press Menu or Title button to get the menu options.

Title button (⊂⊃)

: Displays the disc's top-level menu. Menu content depends on the disc.

Menu button (⊂⊃)

: Displays the DVD disc's main menu. Depending on the disc, this may be the same as the top-level menu.

Return button (⊂⊃) : Returns to the previous menu.

Navigation Arrows : Move the cursor to different menu options.

Enter button (ENTER) : Selects the current menu option.

Numeric Keypad

: Choose menu options by the number (only for certain discs).

Note

- If you press a button and see "⊘" on the screen, it means that the function is not available on the disc playing.

- Depending on DVD disc type, certain functions may work differently, or may not work.

★ When using DVD R/RW, the DVD player may or may not work depending on the disc condition or the recording program used.

Playing MP3 Disc

■ Playing MP3 files
- Gently insert disc with recorded side facing down.
- When the disc plays, the screen will automatically display the disc's MP3 files organized in folders.

- Using "up" and "down" arrows, select the desired folder.
- Press Enter button and the MP3 files will appear on the screen.

- Using "up" and "down" arrows, select the desired MP3 file.
- Press Enter button and the MP3 file of choice will start to play.

Note
- Filenames can only be displayed in English.
- Only supports MPEG-1 Audio Layer 3 (MP3) standards.
  Does not support MPEG-2 Audio Layer 3, MPEG-2.5 Audio Layer, MP1, or MP2 standards.
- If a CD-R/RW disc contains CD audio files, MP3 files or picture files, the CD may not play.
- MP3 disc does not support programmed play.
- When saving MP3 files on a CD-R/RW disc, you must use ISO9660 Level I format before recording.

★ When using CDR/RW, the DVD player may or may not work depending on the disc condition or the recording program used.

Playing Kodak Picture CD and Other Photo Files

When you insert a Kodak CD into the player, the slideshow will start automatically. When you load picture files, the table of contents will appear on the screen. It offers 16 different slideshow modes. Use program button to change from slideshow mode to manual operation.

■ Choosing a Photo
- Using "up" and "down" arrows, choose the photo you want to see. The thumbnail picture of the selected photo will display on the file menu on the right-hand side.

■ Rotating a Photo
There are 4 ways to rotate a photograph.
- Up (▲) arrow : Flips the image upside down.
- Down (▼) arrow : Flips the image upside down.
- Left (◀) arrow : Rotates to the left
- Right (▶) arrow : Rotates to the right.

■ Zoom In / Zoom Out
Each time a zoom button is pressed, the image will zoom to 125% ⇒ 150% ⇒ 200% ⇒ 50% ⇒ 75% ⇒ original size.

- Up (▲) arrow : Zoomed image will move up.
- Down (▼) arrow : Zoomed image will move down.
- Left (◀) arrow : Zoomed image will move to the left.
- Right (▶) arrow : Zoomed image will move to the right.

Note
- Depending on the file size, the zoom function may not work.

★ When using CD R/RW, the DVD player may or may not work depending on the disc condition or the recording program used.

Viewing Slow Motion Video

This function views the disc content in slow motion. While in slow motion, the audio does not play.

- During play, press Resume/Pause (▶❚❚) button.
- Press Slow (◀◀ ▶▶) button. Each time you press the button, the speed will change as follows :

<div align="center">

◀◀ 1/2 ⇒ 1/4 ⇒ 1/8 ⇒ 1/16

▶▶ 1/2 ⇒ 1/4 ⇒ 1/8 ⇒ 1/16

</div>

- Press Resume/Pause (▶❚❚) button, and the disc will play at normal speed.

Frame Advance

- During play, press Resume/Pause (▶❚❚) button.
- Press (❙◀) button repeatedly. Each time you press the button, the previous frame will display.
- During play, press Resume/Pause (▶❚❚) button.
- Press (▶❙) button repeatedly. Each time you press the button, the next frame will display.
- Press Resume/Pause (▶❚❚) button, and the disc will play at normal speed.

On-Screen Information Display

During play, it displays disc type, title, chapter number, elapsed time.

- If you press ($\overset{\text{DISPLAY}}{\boxed{}}$) button during play, chapter, title, song or time information will appear on screen depending on the disc type.

- Press the ($\overset{\text{DISPLAY}}{\boxed{}}$) button again, and the on-screen information display will disappear.

Changing Audio Languages

While playing DVD disc with two or more languages, you can change the audio language at any time.

- Press ($\overset{\text{AUDIO}}{\boxed{}}$) button during play. Each time you press the button, the audio language will change.

Audio 1/2:Dolby Digital 5.1CH : English :

↓

Audio 2/2:Dolby Digital 5.1CH : Korean :

Changing Subtitle Languages

Most DVD discs have subtitles in one or more languages.
During play, you can change the language.

- Press the ( ) button during play. Information about the
  subtitles will appear on the bottom of the screen. Initially, it
  will be set to "Subtitle Off." If the disc does not contain any
  subtitles, then (⊘) will appear.

Subtitle 1/2 : English

↓ ↑

Subtitle 2/2 : Korean

↓ ↑
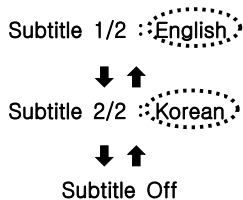
Subtitle Off

- Continue pressing ( ) button until the subtitle in desired
  language appears.

- To turn the subtitles off, continue pressing ( ) until
  "Subtitle Off" appears on the screen.

Note

- Your subtitle choices are limited to the languages contained
  on the disc. Depending on the disc, the subtitle selection
  function may not work.

Repeat Play - Title, Chapter (DVD), Track (CD-DA)

Allows you to play the title, chapter or track repeatedly.

- Press (PLAY MODE) button during play. Each time (PLAY MODE) is pressed, the repeat mode will change as follows :

    DVD   : Chapter → Title → All → Repeat Off

    CD-DA : Track → All → Random → Repeat Off

    MP3   : Single → All → Random → Repeat off

- To cancel repeat play, press (PLAY MODE) until "Repeat Off" appears on the screen.
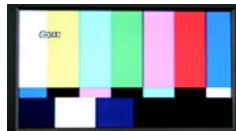
Note

- Depending on the disc, the repeat play function may not work.

Section Repeat Play

- Press (A-B) at the beginning of the desired section.

- Press (A-B) at the end of the desired section. The specified section will play repeatedly.

- To return to normal play, press (A-B) until "AB" disappears from the screen

Play in Desired Order

This function allows the user to arrange and play a disc's title, chapter or track in desired order.

- During play or pause, press (PROGRAM) and the program menu will appear on the screen.
- Select the desired title, chapter (DVD), track (CD-DA) using the numeric keypad.

- To add another title, chapter, or track, repeat the previous step.

- When finished, use the navigation arrows to select "Start" on the screen. The disc will play in the programmed order.


- To stop program play, press (PROGRAM) button one more time. Use navigation arrows to select "Exit" on the screen.

Zoom Screen

- During play, press (ZOOM) button.

- Each time you press (ZOOM), the screen will zoom as follows
  and display current zoom level.

2 → 3 → 4 → 1/2 → 1/3 → 1/4 → NORMAL

- Using the navigation arrows, you can move to the area you
  desire to zoom in.

- To cancel zoom, press (ZOOM) until "Zoom" disappears from
  the screen.

Changing Camera Angle

If the disc contains different camera angles, you can view
from the different camera angles.

- During play, press (ANGLE) button. Available camera angles
  will appear on the screen. If there are no alternate camera
  angles, then (⊘) will appear on the screen.

- If there is more than one angle, the camera icon with the
  angle number will appear on the screen.

- Press (ANGLE) button again, and it will move to the next
  camera angle available.

Note

- The number of available camera angles depends on the
  disc.

Go To the Desired Scene

This function allows the user to go to a specific track, chapter or song.

■ DVD

– Press (GOTO) button during play.

– Select "Chapter" and press DOWN

(▼) button.

– Using the numeric keypad, enter the desired title number.

■ CD-DA

– Press (GOTO) button during play.

– Select "Track" and press DOWN

(▼) button.

– Using the numeric keypad, enter the desired title number.

■ MP3

– Press (GOTO) button during play.

– Select "Song" and press DOWN

(▼) button.

– Using the numeric keypad, enter the desired title number.

While the disc is stopped, pressing the Setup button will bring up the basic setup, audio setup, video setup, disc setup, and password setup menu. Initial setting will be preserved even when the player is powered off.

Basic Operation

While the disc is stopped, press ( ) button. Using the navigation arrows and (ENTER) button, find and select the menu of your choice. The current setup menu will be highlighted in blue.

- If the disc is playing, press Stop ( ) button.

- When you press ( ) button, Setup Menu will appear on the screen.
- Use ( ) buttons to select the menu of your choice.
- If you press ( ) button again, Setup Menu will disappear.

Note

- Depending on the disc, certain setup menu options may not be active.

Common Setup

■ TV Display

- Pan Scan: Applies to media formatted for pan-scan. (You can only see the middle section of a screen formatted in 16:9 aspect ratio.)
- Letter box: If not formatted in pan-scan, screen will appear in letter box with black bands on the top and bottom of the screen.
- Widescreen: To view in widescreen mode, black bands will appear on the top and bottom of the screen.

■ Angle Mark

While the disc is playing the user can set up the multi-angle mark displayed on the screen. Multi-angle screen only works if the disc supports the multi-angle format.

On: During play, multi-angle mark is displayed on the screen.
Off: During play, multi-angle mark is not displayed on the screen.

■ OSD Language

You can choose the language displayed on the screen.
When you select a language, the screen will display in the
language of your choice.

■ Last Played Memory

Enables or disables disc's last played memory function.
If you eject the disc or power off the player, it will automatically
resume play from the previous spot when you play the same disc
again. The player will only remember the most recent disc played.

■ Captions

During play, this option enables or disables captions.

On: Caption is on.
Off: Caption is off.

Audio Setup

■ Dolby Digital Setup

Sets up digital audio effects.
(Stereo, L-Mono, R-Mono,
Mix-Mono, Dynamic)

■ Equalizer

- EQ TYPE

You can choose desired equalizer
mode. (Rock, Pop, Live, Dance,
Techno, Classic, Soft)

- Bass Boost

Without affecting other frequencies,
you can boost the low frequency
section only.

- Super Bass

This amplifies the low frequencies
even further.

- Treble Boost

Without affecting other frequencies,
you can boost the high frequency
section only.

■ 3D Processing

- Reverb Mode
Simulates realistic sound effects in various settings. (Concert, Living Room, Hall, Bathroom, Cave, Arena, Church)

■ HDCD

- Recreates the sound most closely to the original when playing discs recorded in HDCD (High Definition Compatible Digital) format.

Note

- This should only be used with HDCD discs. If you try to use normal discs, it may produce unacceptable sound quality.

Video Setup

■ Quality

- Sharpness
Controls the screen sharpness.

- Brightness
Controls the screen brightness.

Use navigation arrows to adjust screen brightness.

- Contrast
Adjusts the screen contrast.

Use navigation arrows to adjust screen contrast.

Preference Page

■ TV Type

- This sets the TV signal type (PAL, Multi, NTSC) of the DVD, monitor, and external A/V.

■ PBC (Play Back Control)

- When playing a video CD with playback control (version 2.0), you can view a special scene or menu. If the video CD has a PBC function, depending on the condition of the play control, a menu or additional information will appear.

■ Audio

- You can select the audio language that comes out of the speakers.

■ Subtitle

- You can select the subtitle language that appears on the screen.

■ DISC Menu

- Selects the language of your
  disc's DVD menu.

■ Default

- Resets all menu options to the factory setting. (However,
  parental control level, region code, and password will not
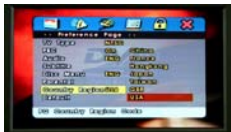 be reset.)

■ Parental

- Limits children's access to
  certain discs. Choose from 8
  different levels.

■ Country Region

- Selects the applicable region
  when setting the parental control
  level.

Password Setup Page

■ Password Mode

- Sets password mode on/off.

■ Password Change

- Changes password.

- Enter previous password and

  enter the new 4-digit password.

- Under Confirm PWD, enter new password and select OK

  button on the screen.

Note

- Do not forget your password.
- You cannot set new password without your old password.

Product Standards

Item	Features
Power Consumption	MAX 30Watts
LCD Dimension(mm)	154.08(W)×86.58(H)
Resolution(dot)	1,440(W)×234(H)
Screen Size(inch)	7.0(Diagonal)
Dot Pitch(mm)	0.107(W)×0.370(H)
Viewing Angle	90°(H),60°(V)
Signal Mode	NTSC
Power Source	DC 9~16V

Warranty

This warranty covers repairs needed to correct defects in materials or workmanship of the unit. The warranty coverage is for 36 months or 36,000 miles, whichever comes first. To obtain warranty service, contact the Mopar dealer that installed the unit.

This warranty does not cover damages or failures resulting directly or indirectly from the following:

- Fire, accidents or theft
- Abuse or negligence
- Misuse
- Improper Repairs
- Alteration or Tampering, including installation of non-Genuine Mopar Accessories
- Airborne chemicals, floods, lightning and other environmental conditions