McIntosh Laboratory, Inc. 2 Chambers Street Binghamton, New York 13903-2699 Phone: 607-723-3512 www.mcintoshlabs.com

MCD350

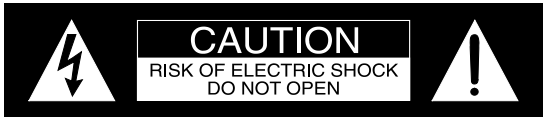
SACD/CD Player

Owner's Manual



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

WARNING - TO REDUCE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.



ATTENTION:
RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR

NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

To prevent the risk of electric shock, do not remove cover or back. No user-serviceable parts inside.

Additional Safety Information is supplied in a separate document “Important Additional Operation Information Guide”

CAUTION: **Invisible Laser Radiation when open. DO NOT stare into the beam or view directly with optical instruments. Use of controls or adjustments or performance of procedures other than those specified in the Owners Manual may result in Hazardous Radiation Exposure.**

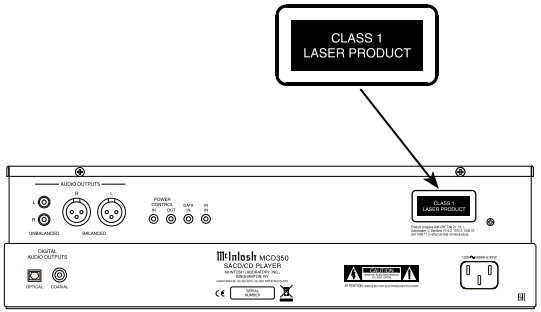
ATTENTION: **Rayonnnement Laser Invisible en cas d’ouverture. Ne pas regarder dans le faisceau ni observer directement à l’aide d’instruments d’optiques. L’utilisation de commandes, de réglages ou d’instructions autres que ceux spécifiés dans le manuel du propriétaire peut entraîner une exposition x à des rayonnements dangereux**

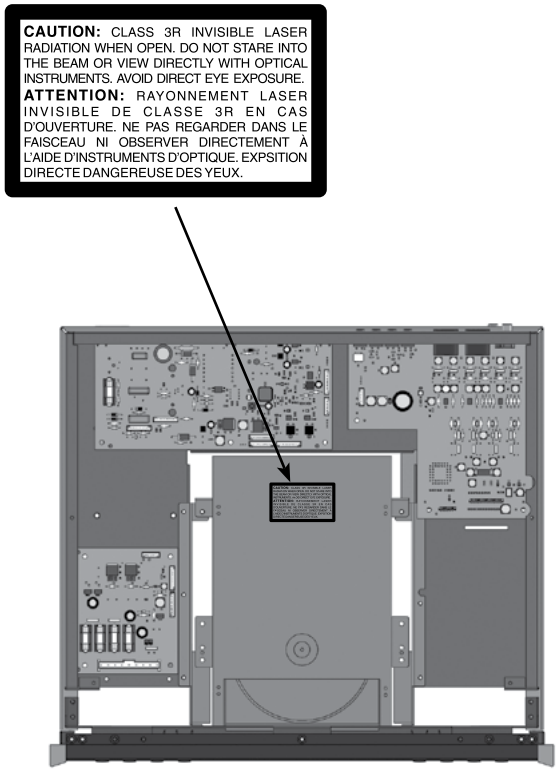
This product incorporates an embedded CLASS 3R Laser (IEC60825-1).

LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

VAROITUS! **Laitteen kayttaminen muulla kuin tassa kayttoohjeessa mainitulla tavalla saattaa altistaa kayttajan turvallisuusluokan 1 ylittavalle nakymattomalle lasersateiylle.**

VARNING! **Om apparaten anvands pa annat satt an i denna bruksanvisning specificerats, kan anvandaren utsattas for osynbg laserstraining, som overskrider gransen for laserklass 1.**





Thank You

Your decision to own this McIntosh MCD350 SACD/CD Player ranks you at the very top among discriminating music listeners. You now have "The Best." The McIntosh dedication to "Quality," is assurance that you will receive many years of visual and musical enjoyment from this unit.

Please take a short time to read the information in this manual. We want you to be as familiar as possible with all the features and functions of your new McIntosh.

Please Take A Moment

The serial number, purchase date and McIntosh Dealer name are important to you for possible insurance claim or future service. The spaces below have been provided for you to record that information:

Serial Number: _____

Purchase Date: _____

Dealer Name: _____

Technical Assistance

If at any time you have questions about your McIntosh product, contact your McIntosh Dealer who is familiar with your McIntosh equipment and any other brands that may be part of your system. If you or your Dealer wish additional help concerning a suspected problem, you can receive technical assistance for all McIntosh products at:

McIntosh Laboratory, Inc.
2 Chambers Street
Binghamton, New York 13903
Phone: 607-723-1545
Fax: 607-724-0549

Customer Service

If it is determined that your McIntosh product is in need of repair, you can return it to your Dealer. You can also return it to the McIntosh Laboratory Service Department. For assistance on factory repair return procedure, contact the McIntosh Service Department at:

McIntosh Laboratory, Inc.
2 Chambers Street
Binghamton, New York 13903
Phone: 607-723-3515
Fax: 607-723-1917

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General Information

1. For additional connection information, refer to the owner's manual(s) for any component(s) connected to the MCD350 SACD/CD Player.
2. The Super Audio Compact Discs Audio Signals are converted internally from Digital to Analog. There is no Digital Audio Signal present at the MCD350 Digital Output Connectors during playback of a SACD Disc.
3. A PCM version of the decoded MP3 and WMA Signals is available at the Digital Audio Outputs.
4. The MCD350 internal Digital to Analog Converter is designed to decode 2 channel PCM (Pulse Code Modulation) signal present at the Digital Audio Inputs into 2 channel analog audio.
5. The IR Input, with a 3.5mm mini phone jack, is configured for non-McIntosh IR sensors such as Xantech Model DL85K Kit. Use a Connection Block such as a Xantech Model ZC21 when two or more IR sensors need to be connected to the MCD350.
5. When discarding the unit, comply with local rules or regulations. Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning battery disposal.



6. For additional information on the MCD350 and other McIntosh Products please visit the McIntosh Web Site at www.mcintoshlabs.com.

Disc Information

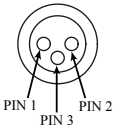
1. The MCD350 is designed to play round Compact Discs; do not try other shapes or possible damage may occur.
2. The MCD350 SACD/CD Player is designed to play all industry standard "Redbook" CD Audio Discs as indicated by the COMPACT disc DIGITAL AUDIO Symbol. It will also play most CD-R, CD-RW and Dual Discs, however some recorded discs may not be able to play due to the condition of the recording or manufacturing.
3. Disc with tracks recorded with MP3 and WMA Formats will playback on the MCD350 when the writing software used to create them conforms to the ISO9660 Level 1 standard.
4. Several of the SACD performance features available on the MCD350 are active only if the SACD Disc includes the supporting encoded information.
5. The Audio from playback of SACD Two Channel Layer and Multichannel Layer Discs is available at the MCD350 Analog Output Jacks and Connectors; the Digital Outputs will be muted.

Connector and Cable Information

XLR Connectors

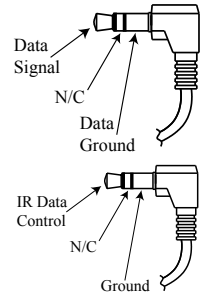
Below is the Pin configuration for the XLR Balanced Output Connectors on the MCD350. Refer to the diagram for connection:

PIN 1: Shield/Ground
PIN 2: + Output
PIN 3: - Output



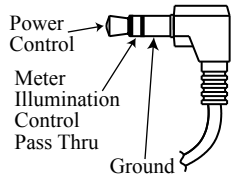
Data and IR Input Port Connectors

The MCD350 Data In Port receives Remote Control Signals. A 1/8 inch stereo mini phone plug is used for connection. The IR Ports also use a 3.5mm stereo mini phone plug and allow the connection of other brand IR Receivers to the MCD350.



Power Control Connector

The Power Control Input Jack receives Power On/Off Signals (+12 volt/0 volt) when connected to other McIntosh Components. The Power Control Output Jack sends Power On/Off Signals (+12 volt/0 volt) when connected to other McIntosh Components. An additional connection is for controlling the illumination of the Power Output Meters on McIntosh Power Amplifiers. A 3.5mm stereo mini phone plug is used for connection to the Power Control Jacks.



Introduction

The McIntosh MCD350 SACD/CD Player offers the latest in audio technology, providing state of the art reproduction of audio program sources. A full complement of performance features allows for the enjoyment of the SACD special audio format available on discs. Audio CDs are also reproduced with flawless realism. The advanced mechanical design of the transport ensures many years of smooth trouble free operation.

Performance Features

• Twin Laser Pickup
The MCD350 incorporates two laser elements, with different wavelengths, that are focused through one lens assembly. This unique design allows reading both the CD and Super Audio Compact Disc (SACD) Discs Formats.

• Advanced Transport
The MCD350 has the latest in advanced digital servo for faster, quieter and accurate operation. The Disc Audio Data is read at twice the normal rate insuring better disc tracking and error correction processing.

• Balanced Digital to Analog Converter
A 32-bit, 192kHz Digital to Analog Converter is used in a Stereo Balanced Mode, assuring the music is reproduced with a wide dynamic range and extremely low distortion.

• Digital Audio and Outputs
The MCD350 has Digital Coaxial and Optical Outputs.

• Balanced Outputs
The MCD350 has Balanced Outputs, permitting long cable lengths without a loss in sound quality.

• Power Control and Full Function Remote Control
The Power Control Input Connection switches the MCD350 On/Off with other McIntosh Components in a system.

• Remote Control
The Remote Control provides control of the MCD350 operating functions. A Data Port Connection to a McIntosh Integrated Amplifier or Preamplifier allows for convenient system operation using one Remote Control. An External IR Sensor Input allows for remote operation when the MCD350 is located behind closed doors.

• Multi-Function Front Panel Display
The MCD350 Front Panel display indicates the current disc playback status.

• Special Power Supply
The Linear Power Supply has both a special R-Core Power Transformer and Multiple Regulators to ensure stable noise free operation even though the power line varies.

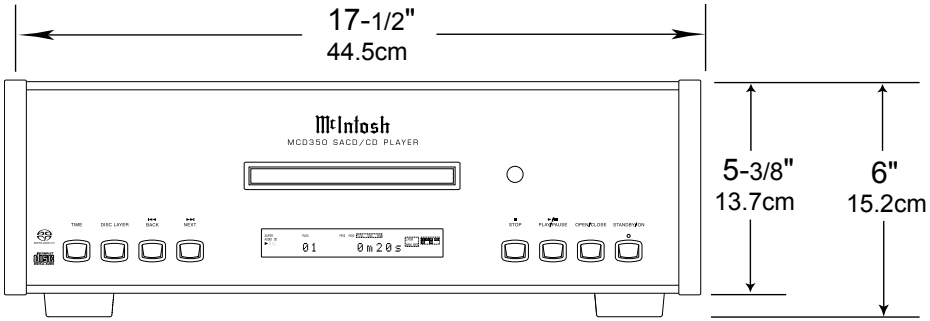
• LED Front Panel Illumination
The even Illumination of the Front Panel is accomplished by multiple extra long life Light Emitting Diodes (LEDs) arranged with a special orientation.

• Glass Front Panel
The MCD350 has the famous McIntosh Illuminated Glass Front Panel ensures the pristine beauty of the MCD350 will be retained for many years.

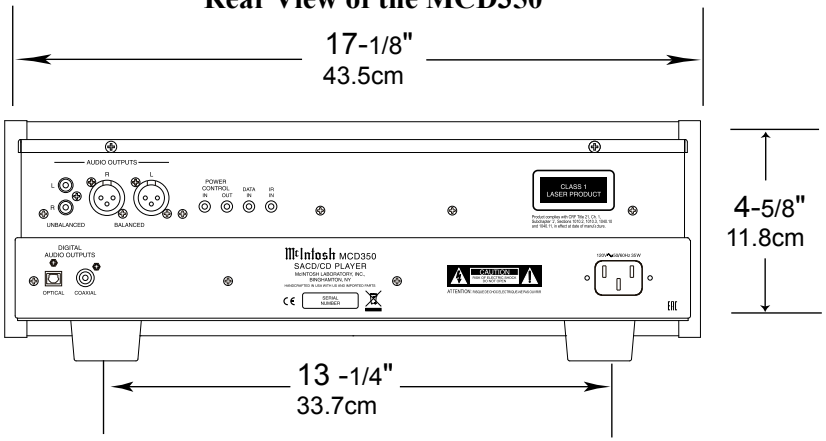
Dimensions

The following dimensions can assist in determining the best location for your MCD350.

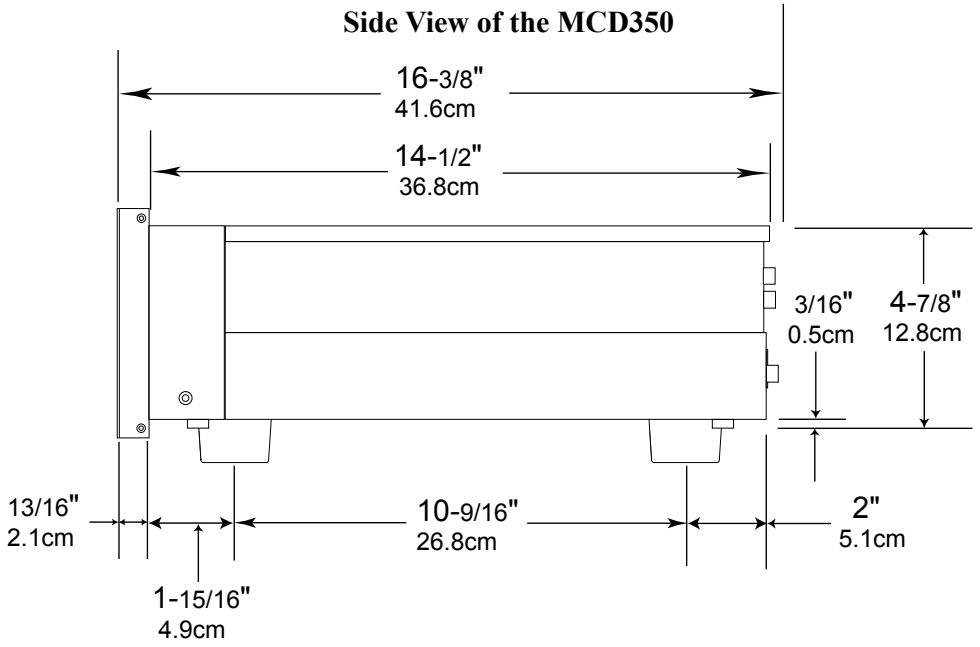
Front View of the MCD350



Rear View of the MCD350



Side View of the MCD350



Installation

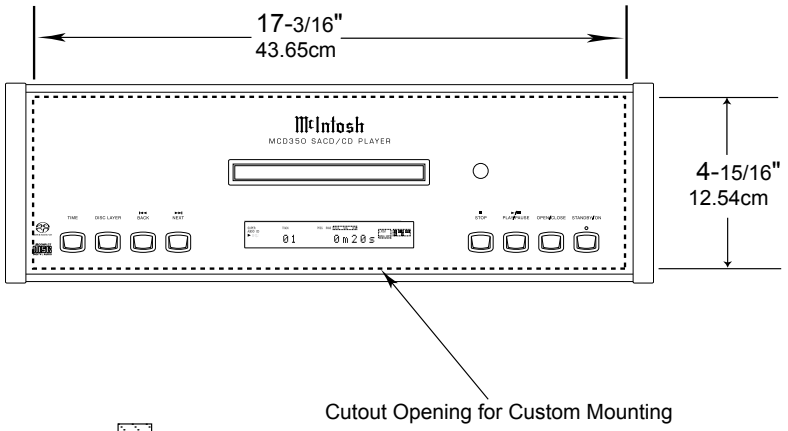
The MCD350 can be placed upright on a table or shelf, standing on its four feet. It also can be custom installed in a piece of furniture or cabinet of your choice. The four feet may be removed from the bottom of the MCD350 when it is custom installed as outlined below. The four feet together with the mounting screws should be retained for possible future use if the MCD350 is removed from the custom installation and used free standing. The required panel cutout, ventilation cutout and unit dimensions are shown.

Always provide adequate ventilation for your MCD350. Cool operation ensures the longest possible operating life for any electronic instrument. Do not install the MCD350 directly above a heat generating component such as a high powered amplifier. If all the components are installed in a single cabinet, a quiet running ventilation fan can be a definite asset in maintaining all the system components at the coolest possible operating temperature.

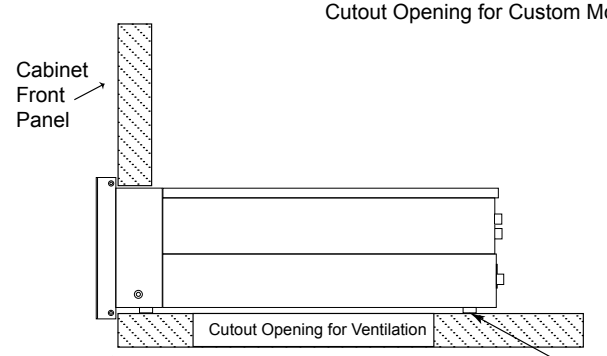
A custom cabinet installation should provide the following minimum spacing dimensions for cool operation.

Allow at least 2 inches (5.1cm) above the top, 2 inches (5.1cm) below the bottom and 1 inch (2.5cm) on each side of the SACD/CD Player, so that airflow is not obstructed. Allow 17 inches (43.2cm) depth behind the front panel. Allow 1-1/8 inch (2.9cm) in front of the mounting panel for knob clearance. Be sure to cut out a ventilation hole in the mounting shelf according to the dimensions in the drawing.

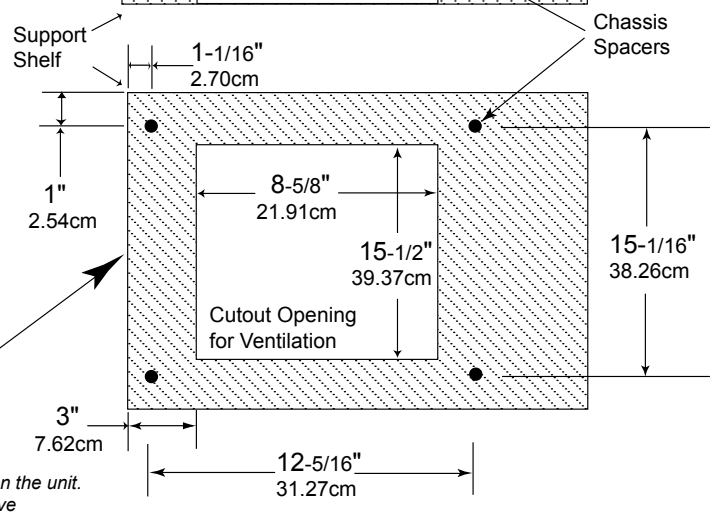
MCD350 Front Panel Custom Cabinet Cutout



MCD350 Side View in Custom Cabinet



MCD350 Bottom View in Custom Cabinet

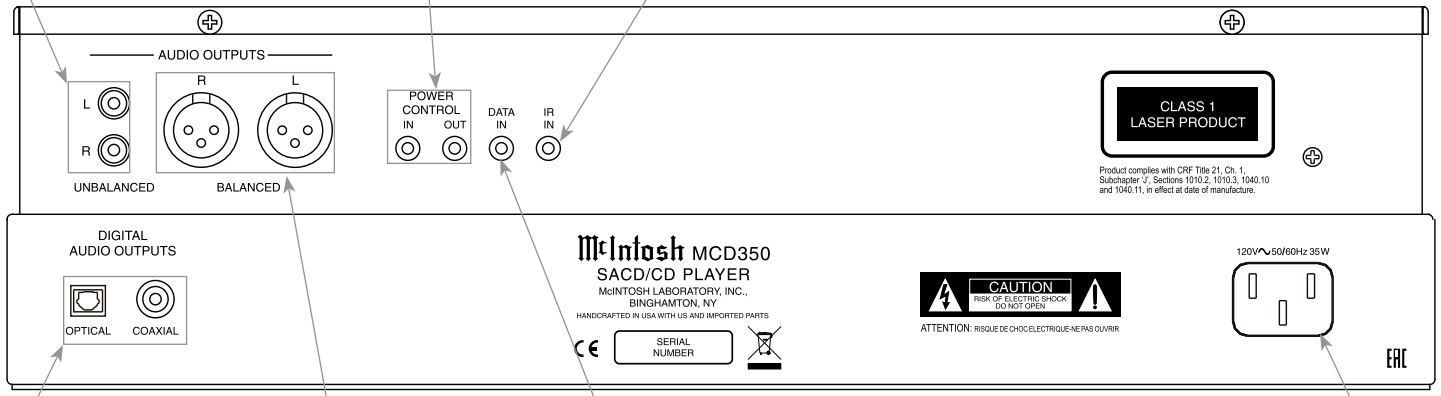


Note: Center the cutout Horizontally on the unit. For purposes of clarity, the above illustration is not drawn to scale.

UNBALANCED AUDIO OUTPUTS supply analog audio signals to Unbalanced Inputs of other components

IR IN for connecting an IR Receiver

POWER CONTROL IN receives turn-on signals from a McIntosh component and POWER CONTROL OUT sends turn-on signals on to another McIntosh Component



AUDIO OUTPUTS BALANCED supply analog audio signals to Balanced Inputs of other components

Connect the MCD350 power cord to a live AC outlet. Refer to information on the back panel of your MCD350 to determine the correct voltage for your unit

DIGITAL AUDIO OUTPUTS OPTICAL and COAXIAL send a Digital Audio Signal to a Preamplifier or an A/V Control Center with a D/A Converter or a decoder

DATA IN receives control data from a McIntosh Control Center

MCD350 Connections

The MCD350 has the ability to be remotely switched On/Off from a McIntosh Integrated Amplifier or Preamplifier via the Power Control connection. The MCD350 Data Port Connection allows for the remote operation of basic functions using the McIntosh Integrated Amplifier or Preamplifier Remote Control. With an external sensor connected to the MCD350, remote control operation is possible from another room and/or when the MCD350 is located in a cabinet with the doors closed.

The connection instructions below, together with the MCD350 Connection Diagram on the opposite page is an example of a typical audio system. Your system may vary from this, however the actual components would be connected in a similar manner. For additional information refer to "Connector and Cable Information" on page 4.

Power Control Connections:

1. Connect a Control Cable from the Integrated Amplifier or Preamplifier Power Control MAIN (or ACC) Jack to the POWER CONTROL IN Jack on the McIntosh MCD350 SACD/CD Player.
2. Optionally, connect a Control Cable from the MCD350 SACD/CD Player POWER CONTROL OUT Jack to another component with a Power Control In Jack.

Data Control Connections:

3. Connect a Control Cable from the Integrated Amplifier or Preamplifier Data Port 3 Jack to the McIntosh MCD350 SACD/CD Player DATA IN Jack.

Sensor Connections:

4. Optionally, connect an IR Sensor to the McIntosh MCD350 SACD/CD Player IR IN Jack.

Analog Audio Connections:

5. Connect Balanced Cables from the McIntosh MCD350 SACD/CD Player AUDIO OUTPUT BALANCED Connectors to the Integrated Amplifier or Preamplifier Balanced Input Jacks.
6. Optionally, connect an Audio Cable from the MCD350 SACD/CD Player AUDIO OUTPUT, UNBALANCED Jacks to the Integrated Amplifier or Preamplifier Unbalanced Input Jacks.

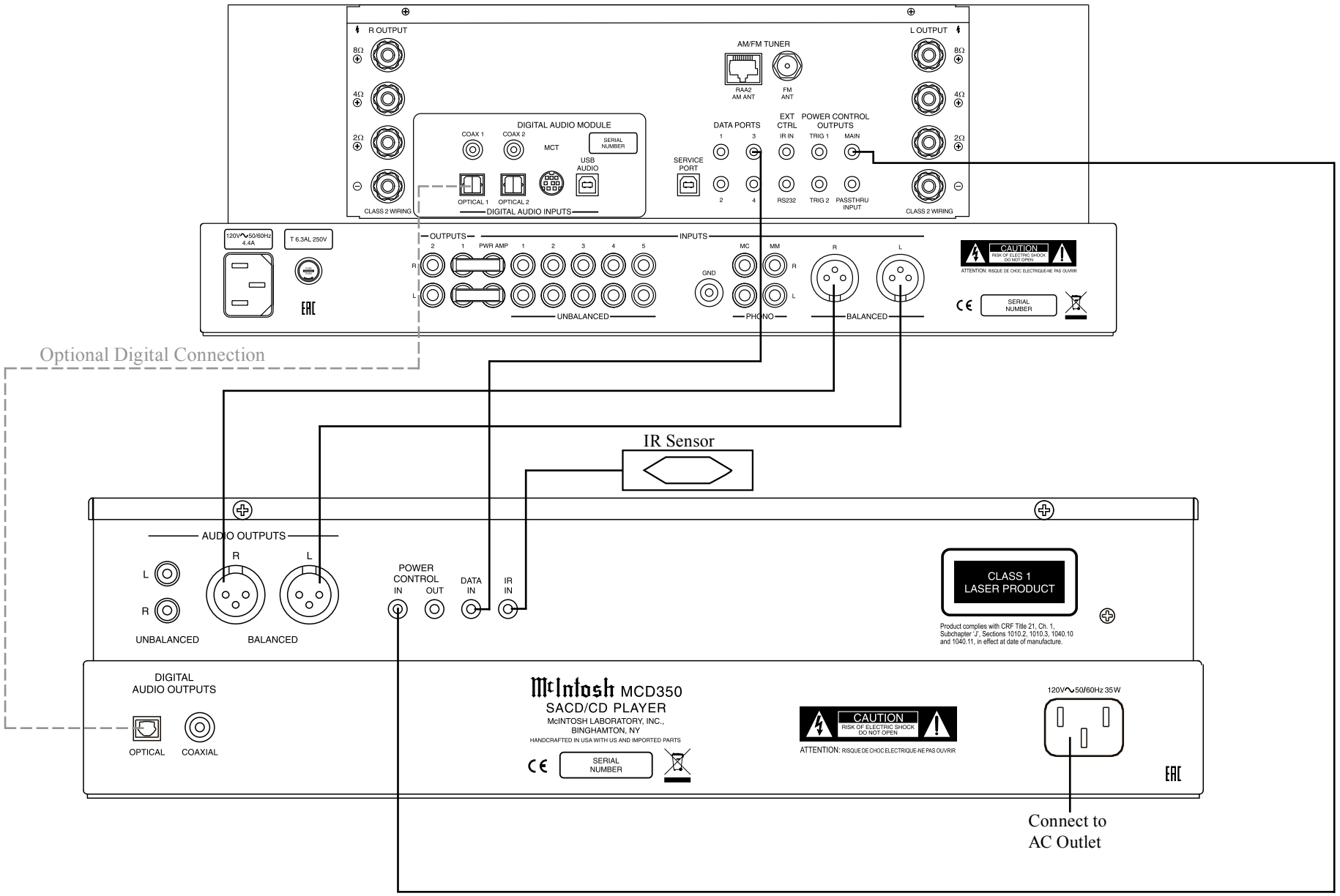
Digital Audio Connections:

7. Optionally, connect a Cable from the McIntosh MCD350 SACD/CD Player DIGITAL AUDIO OUTPUT (COAXIAL or OPTICAL) to the Optical or Coaxial Input on the Integrated Amplifier or Preamplifier.

AC Power Cords Connections:

8. Connect the McIntosh MCD350 SACD/CD Player AC Power Cord to a live AC outlet.

Integrated Amplifier or Preamplifier



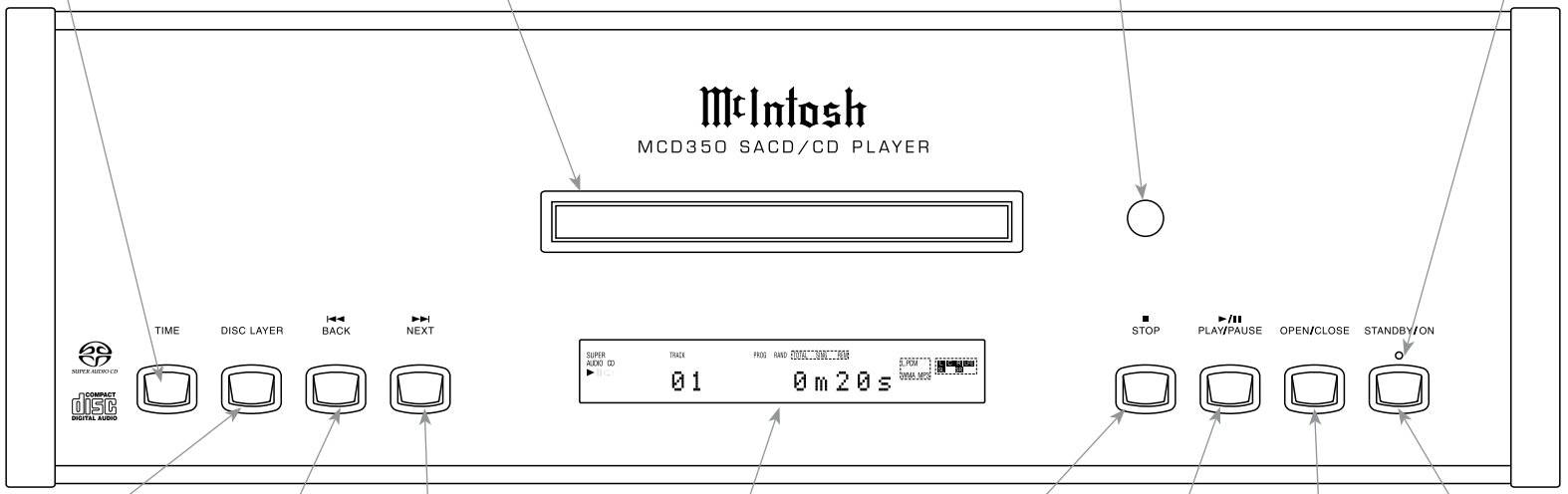
Select between Total Remaining Time, Single Track Remaining Time or Track Time

Disc Tray opens to load and unload a disc

IR Sensor receives commands from a Remote Control

Standby Power On Indicator and the color indicates the status of the Auto Off Feature

Note: For additional information refer to page20.



Selects the SACD Stereo, SACD Multichannel or CD Audio Track from a hybrid disc

Move backward one track at a time

Move forward one track at a time

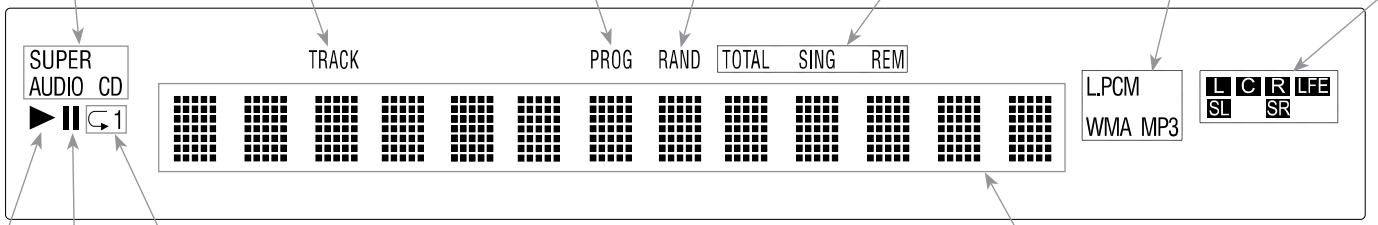
Front Panel Display indicates various operation functions and times

Stops disc playback

Starts disc playback and pauses disc playback

Opens and Closes the disc tray for loading or unloading discs

STANDBY/ON Push-button switches the MCD350 ON or OFF (Standby)



Indicates when the Track Number is being displayed

Indicates the Random Play Mode is active

Indicates when the tracks on the CD disc are MP3 or WMA encoded

Indicates the type of disc loaded, CD or SACD

Indicates the Programming or Program Play Mode is active

Indicates the total disc remaining playback time or the current track remaining playback time

Indicates the sound channels on a CD or SACD Disc. Left and Right Channels for a CD and STEREO SACD Discs. Left, Center, Right, LFE (subwoofer), Surround Left and Surround Right on a Multichannel SACD Disc.

Indicates when the Play Mode is active

Indicates when in the Pause Mode

Indicates the Repeat Mode selected; Repeat All (Tracks) or Repeat 1 (Track)

Indicates the number of tracks on the Disc, Programmed Tracks, the current Track Time, Remaining Track Time, Total Disc Playing Time, Text and various other Information

SHIFT push-button with LED Indicators used to select a push-button function with white or gold color nomenclature

Push-buttons 2, 4, 6 and 8 used for navigating up, down, left, right through tracks/folders

Use to CLEAR the last programmed track

Access the TEXT Display Mode when playing a SACD Disc containing the information

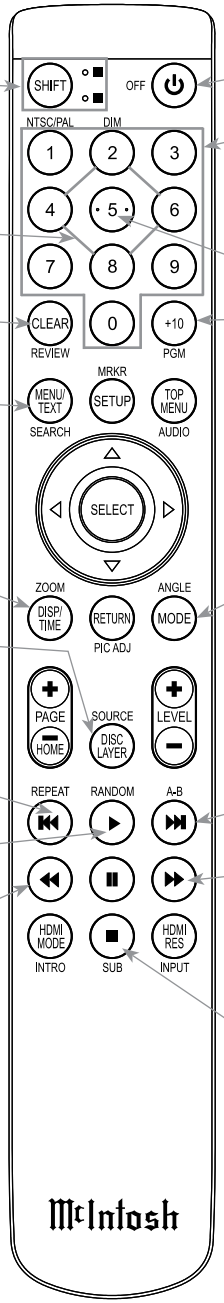
Use to select various disc information, including time, on the Front Panel DISPlay. It is also used to cancel the text display mode on a SACD Disc

Use to select the SACD or CD Tracks from a hybrid disc for playback

Press Back to reverse playback of the Previous Selection. Also used to select one of various repeat modes

Press once to PLAY, a second time to PAUSE and a third time to RESUME playback. Also used to activate random playback of the tracks on a SACD or CD disc

Press to FAST-REVERSE thru the current selection



Momentarily press to Power ON or OFF

Use to select disc tracks or any numbered operation

Push-button 5 used to Enter the track/folder indicated on the McIntosh Front Panel Display

Use to direct access tracks 10 and above

Selects Disc MODE or Folder Mode for navigating and selection of music tracks (MP3 or WMA) on a CD-ROM Disc

Press to play the NEXT Selection

Press to FAST-FORWARD thru the current selection

Press to STOP disc playback

Note: The Remote Control Push-buttons not identified are for use with other McIntosh Products

How to use the Remote Control

The Remote Control is capable of performing most Operating Functions for the MCD350 SACD/CD Player.

Note: Refer to the "How to Operate" Section of this manual for additional information using this Remote Control.

Dual Function Remote Control Push-buttons
If at any time the HR086 Remote Control seems unresponsive to the desired Remote Control Command, it may be necessary to select the color of the Push-button nomenclature for the desired command. This is accomplished by first pressing the SHIFT Push-button to select either white or gold, as indicated by the adjacent LEDs, and then within 3 seconds pressing, or in the case of some functions repeatedly pressing, the desired command push-button.

Play
With a disc loaded, press the PLAY► Push-button to start the disc playing. Press the PLAY► Push-button a second time to temporarily stop disc playback at any time (Pause).

Note: The Play and Pause functions have been combined into the Play Push-button.

Stop
Press the STOP■ Push-button to stop disc playback and return to displaying the table of contents of the disc.

Numbered Push-buttons
Press 1 through 9 to directly access one of the first nine Disc Tracks using the Front Panel Information Display. For track numbers greater than 10, press the +10 Push-button followed by the 0-9 Push-button. For example, to access Disc Track 23, press the +10 Push-button twice and then the 3 Push-button.

Reverse and Fast Foward
Press the ◄◄ (Reverse) or ►► (Fast Forward) Push-button to start moving rapidly through a track on the disc. When the desired location is reached release the ◄◄ (Reverse) or ►► (Fast Forward) Push-button to resume normal playback.

Back and Next
Press the ⏭ (Next) Push-button to move forward one track or the ⏮ (Back) Push-button to move back to the beginning of the current track playing. Also used to review the Programmed Tracks from the disc on the Front Panel Information Display, while in the Program Mode.

Note: If the ⏮ (Back) Push-button *is pressed during playback of the first three seconds of the track, the MCD350 will start playing back the previous track from the beginning. If the Front Panel Information Display is indicating time, the display will momentarily indicate the track number.*

SACD or CD Track Selection
Press the DISC LAYER Push-button to select the SACD or CD Tracks from a hybrid disc for playback.

Display/Time
Press the DISPlay/TIME Push-button to access various disc times. It is also used to return the Front Panel Information Display to indicate time instead of text information on a SACD Disc.

Menu/Text
Press the MENU/TEXT Push-button to select the various text information on a SACD Disc such as Album, Artist and Track Titles (disc dependent).

Repeat Modes
Press the REPEAT Push-button to select either One Track, All Tracks or cancel the Repeat Mode.

Clear
Press the CLEAR Push-button to erase a program track(s).

How to Operate the MCD350

Power On and Off

The LED above the STANDBY/ON Push-button lights to indicate the MCD350 is connected to AC Power. Refer to figure 1. The LED also indicates the status of the Auto Off Feature. When the MCD350 is in the Standby Mode, green illumination indicates the Auto Off Feature is enabled (default setting) and red illumination indicates the Auto Off Feature is disabled. For additional information refer to "Power Mode" on page 20.

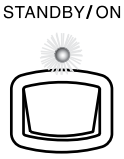


Figure 1

Note: When AC Power is initially applied to the MCD350, the unit will momentarily switch On and then go into the Standby Mode.

To Switch ON the MCD350, momentarily press the STANDBY/ON Push-button on the Front Panel or the ⏻(Power) Push-button on the Remote Control. Refer to figures 2 and 21. The LED above the STANDBY/ON Push-button illuminates green. LEDs above the MUTE and INPUT Push-buttons will illuminate. The Front Panel Display will momentarily indicate "DISC" followed by "READING" and then "NO DISC". Refer to figures 2, 3, 4, 5 and 21. To switch OFF the MCD350, momentarily press the STANDBY/ON Push-button on the Front Panel or the OFF Push-button on the Remote Control.



Figure 3 Figure 4 Figure 5

How to Load and Unload a Disc

1. Press the OPEN/CLOSE Push-button. The disc tray will slide out allowing a CD Disc to be loaded. Refer to figure 6.



Figure 6

2. Press the OPEN/CLOSE Push-button and the disc tray will close. Refer to figure 7. Loading of the CD Disc's Table of Contents (number of tracks and total playing time) will be indicated on the Front Panel Display. Refer to figure 8.



Figure 7

Note: When a Disc is placed in the tray and the PLAY/PAUSE Push-button is pressed, the tray will close and the first track will start playing.

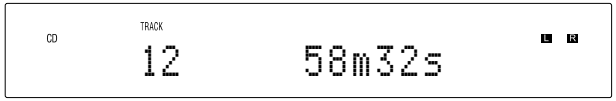


Figure 8

3. Pressing the OPEN/CLOSE Push-button will stop playback of the disc and the disc tray will open.

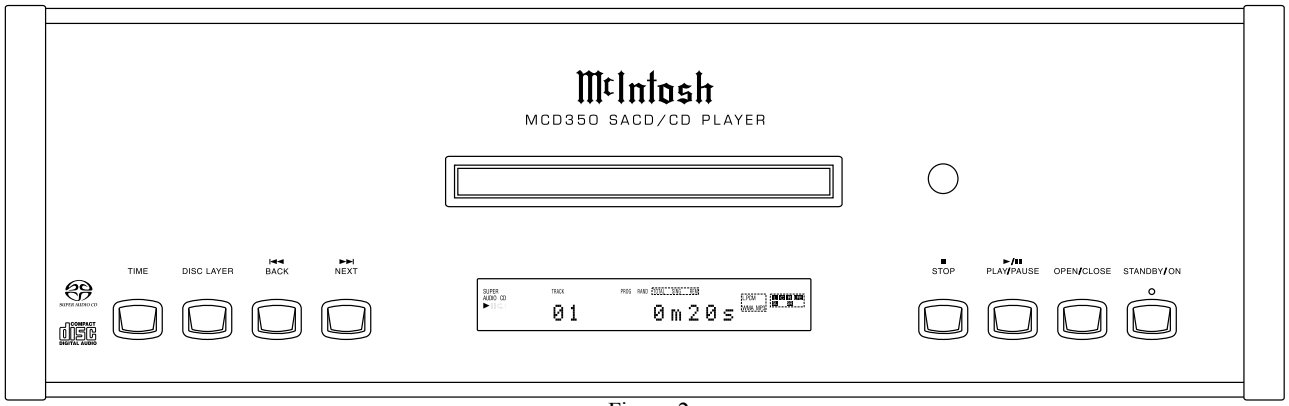


Figure 2

How to Play a SACD Disc

Load a SACD Disc into the MCD350. The Front Panel Display will first scroll the Album Title of the SACD Disc (available on most SACD Discs). Refer to figures 9, 10 and 11.



Figure 9

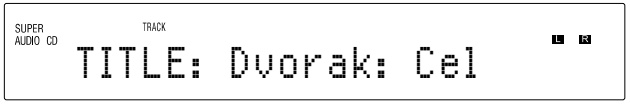


Figure 10



Figure 11

The Album Title is followed by the Table of Contents. Refer to figure 12.

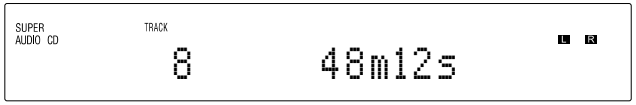


Figure 12

Press the PLAY/PAUSE ▶/ ⏸ Push-button on the Front Panel of the MCD350 or Remote Control. Refer to figures 2 and 21. The Disc will start playing the first track of the SACD Layer.

Note: The default setting for SACD/CD Hybrid Disc is to play the SACD Stereo Layer. The default setting may be changed to play the CD Layer or the SACD Multichannel Layer, when available. With the MCD350 On and no disc loaded, press the DISC LAYER Push-button until the Front Panel Display indicates the desired layer.

Selection of a different Layer (CD, Stereo or Multichannel) can occur during playback of a disc by pressing the DISC LAYER Push-button once to see the current selection and a second or third time to select the desired Layer. Refer to figures 13, 14 and 15. The Player will stop playing the current Layer and then load the desired Layers' Table of Contents (Number of tracks and Total Playing Time). Once the information is indicated on the front panel display, press the PLAY/PAUSE ▶/ ⏸ Push-button. Refer to figure 16.

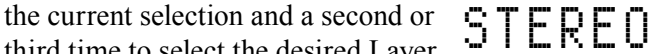


Figure 13

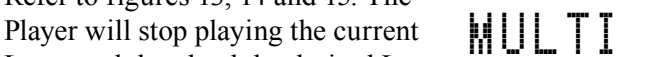


Figure 14

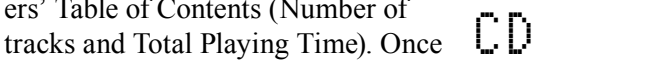


Figure 15



Figure 16

*Note: 1. Most SACD Discs have the ability of displaying the Album Title and Artist. With the disc loaded, SACD Table of Contents read and the **disc stopped**, press the MENU/TEXT Push-button once for scrolling the Title and twice for scrolling the Artist Name. Display of the Artist information is not available during playback of the disc. Refer to figures 17, 18 and 21.*



Figure 17



Figure 18

*2. In a similar manner, some SACD Discs have the ability of scrolling the Track Number and Title by pressing the MENU/TEXT Push-button **after** the Track has started to play. Refer to figures 19 and 21.*



Figure 19

3. The Text Display Mode may be canceled by pressing the DISP/TIME Push-button on the Remote Control. Refer to figure 21.

4. The various Time Modes may be displayed by pressing the DISP/TIME Push-button on the Remote Control. Refer to figure 21. For additional information on the Time Display Modes refer to "Display Modes" on page 20.

5. SACD Discs containing Multichannel sound tracks are down mixed into two channels and available at the Analog Audio Outputs.

How to Play a CD Disc

With a disc already loaded into the MCD350, press the PLAY/PAUSE ▶/ ⏸ Push-button on the Front Panel of the MCD350 or Remote Control. Refer to figures 2, 20 and 21.



Figure 20

How to Pause a Disc

This feature allows for the temporary stopping of disc playback. Refer to figures 2, and 16.

1. When playing a Disc, press the PLAY/PAUSE ▶/ ⏸ Push-button to temporarily stop playback.
2. Press the PLAY/PAUSE ▶/ ⏸ Push-button to resume playing the disc.

Track Back

Return to the beginning of the Track currently playing by momentarily pressing the ⏮ Back Push-button. Press and hold the ⏮ Back Push-button for rapid selection of the desired previous Tracks. Refer to figures 2 and 21.

Track Next

Advance to the next Track by pressing the ⏭ Next Push-button. Press and hold the ⏭ Next Push-button for rapid selection of the next desired Track. Refer to figures 2 and 21.

Fast Forward or Reverse

Using the Remote Control, press the ⏩ (Fast Forward) or ⏪ (Reverse) Push-button to search back and forth rapidly through a Track on a disc. To return to normal playback release the same ⏩ (Fast Forward) or ⏪ (Reverse) Push-button. Refer to figure 21.

Stop Mode

Press the STOP ■ Push-button at any time to stop Playback. To listen to the disc again, press the PLAY/PAUSE ▶/ ⏸ Push-button and playback will start from the beginning of the disc.

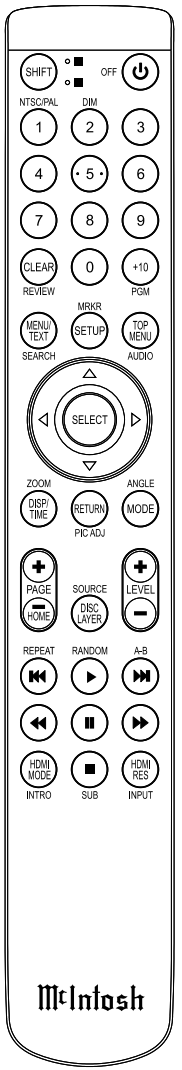


Figure 21

How to Operate the MCD350, con't

Direct Track Selection

The MCD350 Front Panel Display indicates the Disc Track currently playing. Use the Remote Control NUMERIC Push-button(s) to enter the desired Track Number. Refer to pages 14 and 15 for additional information using the Remote Control.

Repeat

This allows repeating a Track, Disc, Program Mode or Random Play Mode on a continuous basis. Refer to figures 2 and 25.

1. With the disc playing (Regular, Program or Random Playback Modes), press the REPEAT Push-button once to activate the Track Repeat (↻1); press the REPEAT Push-button twice to activate the Disc Repeat (↻). Refer to figures 23 and 24.

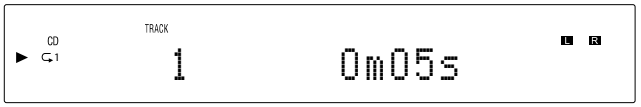


Figure 23

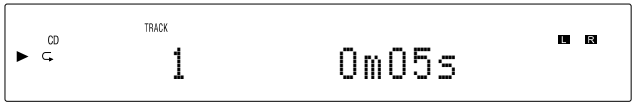


Figure 24

2. To cancel the previously selected Repeat Mode, press the REPEAT Push-button until the character "1" and/or the symbol "↻" in the Front Panel Information Display is extinguished.

Random Playback

This feature allows for listening to Tracks of a Disc in a Random Order. Refer to figure 25.

Note: Before the Random Playback Mode feature on the MCD350 can be activated, the disc must be stopped or the message "Press ■ (stop) first" will momentarily appear on the Front Panel Display. Refer to figure 26.

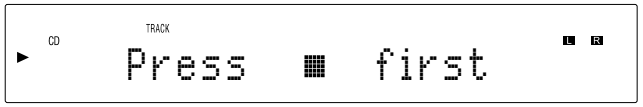


Figure 26

1. With the MCD350 in the STOP■ Mode press the RANDOM Push-button. The word RANDom will be indicated in the Front Panel Display. Refer to figure 27.

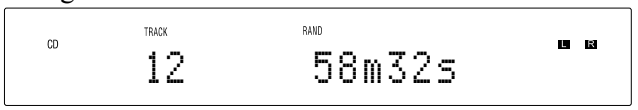


Figure 27

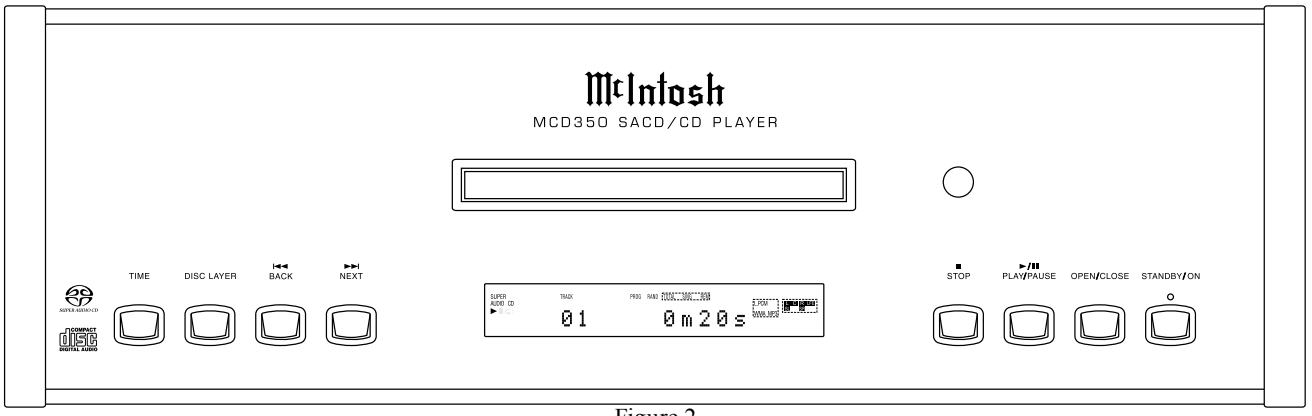


Figure 2

2. Press the PLAY/PAUSE ▶/ ⏸ Push-button to start Random Playback. After all the tracks have been played the MCD350 will stop.

Notes: 1. To provide continuous playback of the disc, press the REPEAT Push-button twice to activate the Disc Repeat (↻) after the Random Playback Mode has started. If Repeat (↻1) is selected, the current track will repeat.

2. The NEXT TRACK ⏭ function will advance to the next random selection and start playing.

3. To cancel the Random Playback Mode, press the STOP■ Push-button, then press the RANDOM Push-button twice.

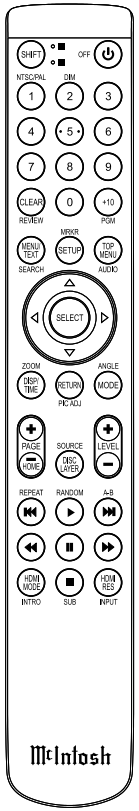


Figure 25

Program Playback

This feature allows for playback of selected Tracks on a Disc in the desired order. In the following example, a Disc is programmed to play Track 6 followed by Track 4 and then Track 2.

Notes: 1. The MCD350 must be in STOP Mode with the Disc TOC (Table of Contents) read before the Program Playback Mode Feature can be activated.

2. When programming Hybrid SACD Discs, first choose the layer (SACD or CD) so the correct TOC can be read, as some discs have different selections for the SACD and CD Tracks.

1. Press the RANDOM Push-button twice to access the Program Mode. Refer to figures 2, 25 and 28.
2. Enter the first desired selection (track 6) using the Numeric Push-buttons. The Front Panel Display



Figure 28

will first indicate track 6 followed by indicating the total number of tracks and total playback time for the current program. Refer to figures 29 and 30.

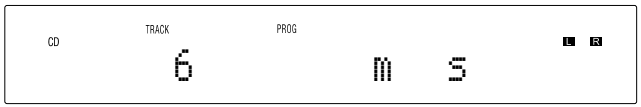


Figure 29

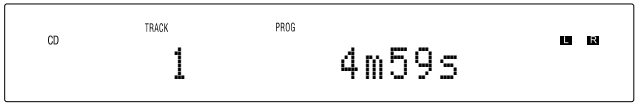


Figure 30

3. In a similar manner, enter the remaining Tracks 4 and 2. Refer to figures 31 thru 34.

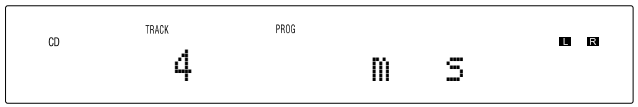


Figure 31

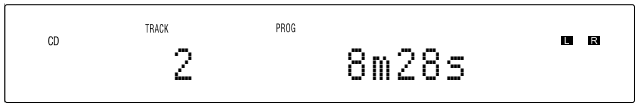


Figure 32

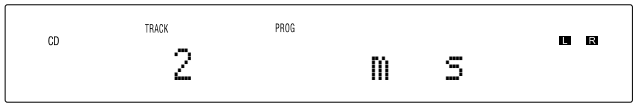


Figure 33

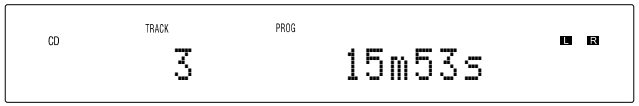


Figure 34

Note: To view and/or delete the selections programmed, use the TRACK NEXT ⏭ *Push-button to step through programmed tracks and the CLEAR Push-button to remove any unwanted selections.*

4. To start playback of the just entered program, press the PLAY/PAUSE►/ ⏸ Push-button. Refer to figure 35.

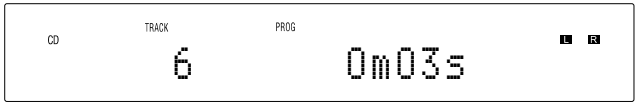


Figure 35

After playback begins, the Repeat Mode can be activated to provide continuous playback of the Programmed Track(s). Refer to figure 25.

Note: To momentarily stop playback, press the PLAY/PAUSE►/ ⏸ Push-button. To resume Program Playback press the PLAY/PAUSE►/ ⏸ Push-button.

5. To cancel the Program Playback Mode, press the STOP■ Push-button followed by pressing the RANDOM Push-button.

Once the Program Playback Mode is active, tracks may be added or deleted by first pressing the STOP■ Push-button followed by entering the additional tracks using the Numeric Push-buttons or delete the last track programed by using the CLEAR Push-button.

MP3/WMA Disc Playback

The MCD350 has the ability of playing back MP3 and WMA encoded discs. MP3 and some version of WMA coding allow more tracks on the Disc by using the technique of lossy compression applied to the original audio information. These Tracks have lower audio quality than the original recording. Load a MP3/WMA disc into the MCD350. Refer to figure 36.



Figure 36

The MCD350 has two MP3/WMA Modes of Operation: Disc Mode and Folder Mode. Refer to figures 37 and 38.

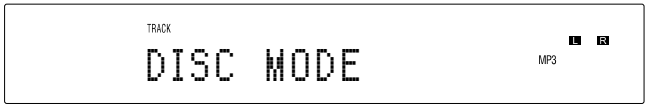


Figure 37



Figure 38

Select the desired mode by pressing the MODE Push-button on the Remote Control.

The Disc Mode will play back all the tracks on the disc starting with tracks not in folders first, followed by the track contained in the folder second. The Folder Mode will playback the tracks contained in the selected folder. Refer to figure 39.



Figure 39

1. Press the PLAY/PAUSE►/ ⏸ Push-button to start Playback. Refer to figure 40.



Figure 40

After all the tracks have been played the MCD350 will stop.

Note: Use the ▲ up and ▼ down directional Push-buttons to select folders on the disc.

How to Operate the MCD350, con't

Display Modes

The MCD350 Front Panel Display indicates both track number and playing time. There are three playing time display indications: track elapse time, track remaining time or disc remaining time. To change from the default setting of track elapse time, press the DSP/TIME Push-button on the Remote Control. Refer to figure 25 on page 18, along with figures 41, 42 and 43.

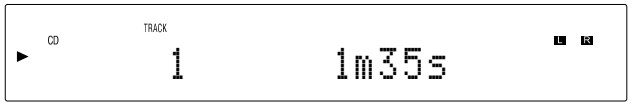


Figure 41



Figure 42



Figure 43

Display Brightness

There are four available settings for the MCD350 Front Panel Information Display Brightness: high (default setting), medium, low or display Off. To change the brightness setting perform the following steps using the Remote Control and refer to figure 2:

1. Press the SHIFT Push-button (the LED to the left of the gold color ■ square will illuminate).
2. Press the 2 (DIM) Push-button momentarily to change the current setting. Repeat this until the desired brightness setting is selected.

Power Mode

The MCD350 incorporates an Auto Off Feature, which can automatically place the SACD/CD Player into the Power Saving Standby/Off Mode (default setting). This occurs approximately 30 minutes after there has been an absence of a Digital Audio Signal coming from Disc Playback. If it is desirable to disable the Auto Off Feature, perform the following steps:

Standby/On Indicator	
Color	**Operation**
Green	MCD350 is Powered On
Red	MCD350 is Powered Off, with Auto Power Mode Off
Green	MCD350 is Powered Off, with Auto Power Mode On

1. Using the MCD350 Remote Control, press and hold in the ⏻ (Power) Push-button for about 5-10 seconds, at which time the Front Panel Display indicates "Auto STBY Off". Refer to figure 44.



Figure 44

2. The MCD350 will switch Off and the LED above the STAND/BY Push-button will illuminate Red in color. Press the ⏻ (Power) Push-button to switch the MCD350 On.
3. To re-active the Auto Off Feature, press and hold in the ⏻ Power Push-button on the Remote Control for about 5-10 seconds, at which time the Front Panel Display indicates "Auto STBY On". Refer to figure 45.

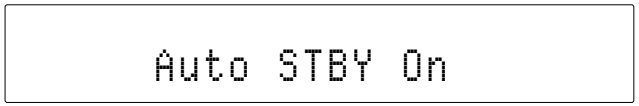


Figure 45

4. The MCD350 will switch Off and the LED above the STAND/BY Push-button will illuminate Green in color. Press the ⏻ (Power) Push-button to switch the MCD350 On.

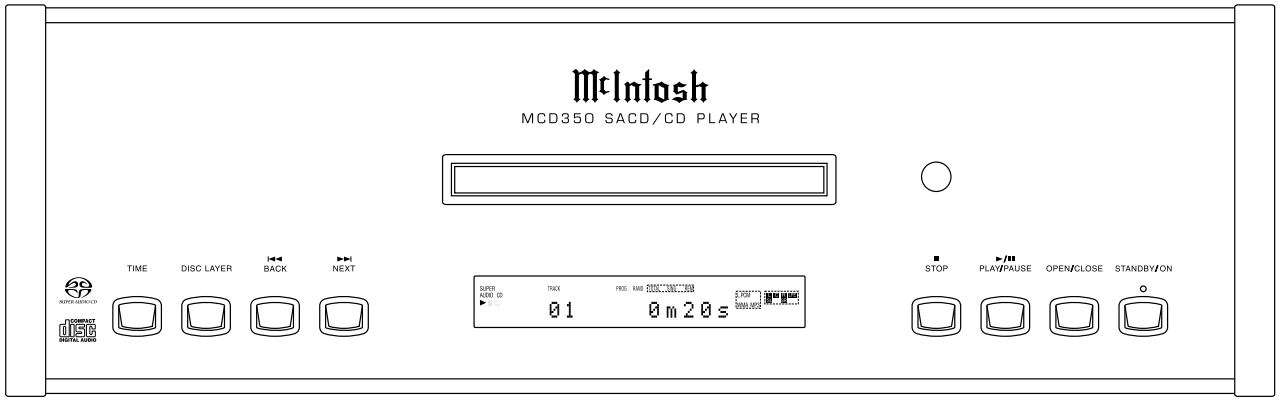


Figure 2

Resetting the MCD350

In the unlikely event the MCD350 stops functioning, first try resetting the Main (System) microprocessor by performing the following:

1. Simultaneously press and hold in the Front Panel TIME and DISC LAYER Push-buttons until the illumination of the LED above the STAND/BY Push-button goes Off. The MCD350 will then switch Off.
2. Press the STAND/BY Push-button to switch the MCD350 back On.

If the MCD350 is still not functioning properly, reset the Secondary (Transport) microprocessor by performing the following:

1. Switch Off A.C. Power going to the MCD350.

   Note: Temporarily, connect the AC Power Cord coming from the MCD350 into an AC Power Strip with an On/Off Switch. Position the AC Power Strip so the On/Off Switch on the strip is in very close proximity to the MCD350 Front Panel STOP Push-button (the MCD350 Remote Control STOP Push-button will not work for resetting the microprocessor).
2. Press and Hold-In simultaneously the NEXT⏭ and STOP■ Push-buttons and then switch On the AC Power Strip.
3. The Front Panel will indicate "RESET" and then go through the process of reading the Disc for playback. At this time release the NEXT Push-button and then the STOP■ Push-button.
4. The MCD350 will resume normal operation.

Audio Specifications

Disc Formats
CD, SACD, MP3 and WMA

Fixed Output level
2.0Vrms Unbalanced
4.0Vrms Balanced

Output Impedance
600 ohms Unbalanced and Balanced

Frequency Response
4Hz to 40,000Hz, +0.5, -2dB (SACD)
4Hz to 20,000Hz, ±0.5dB (CD)

Signal to Noise Ratio
Better than 108dB (A-weighted)

Dynamic Range
Better than 100dB

Harmonic Distortion
0.003% @ 1000Hz (SACD)
0.002% @ 1000Hz (CD)

Channel Separation
Better than 98dB (1,000Hz)

Digital Audio Specifications

Digital Output Format
SPDIF (PCM[1])

Digital Output Sample Rate
Up to 24-Bit/192kHz

Digital Output
Coaxial: 0.5V p-p/75 ohms
Optical: - 15dbm to -21dbm (TOS Link)

[1] PCM (Pulse Code Modulation) Digital Signal type used for CD Discs

General Specifications

Transport
Laser Type: Twin Beam
Laser Beam Wavelength: 650nm (SACD)/790nm (CD)
Laser Power: CLASS IIa/CLASS I

Power Requirements
100 Volts, 50/60Hz at 35 watts
110 Volts, 50/60Hz at 35 watts
120 Volts, 50/60Hz at 35 watts
220 Volts, 50/60Hz at 35 watts
230 Volts, 50/60Hz at 35 watts
240 Volts, 50/60Hz at 35 watts
Standby: Less than 0.5 watt

Note: Refer to the rear panel of the MCD350 for the correct voltage.

Overall Dimensions
Width is 17-1/2 inches (44.4cm)
Height is 6 inches (15.2cm)
Depth is 19 inches (48.3cm) including the Front Panel, Knobs and Cables

Note: When the Disc Tray is opened, the panel clearance required in front of mounting panel is 6-3/4 inches (17.2cm).

Weight
28 pounds (12.7Kg) net, 42.5 pounds (19.2Kg) in shipping carton

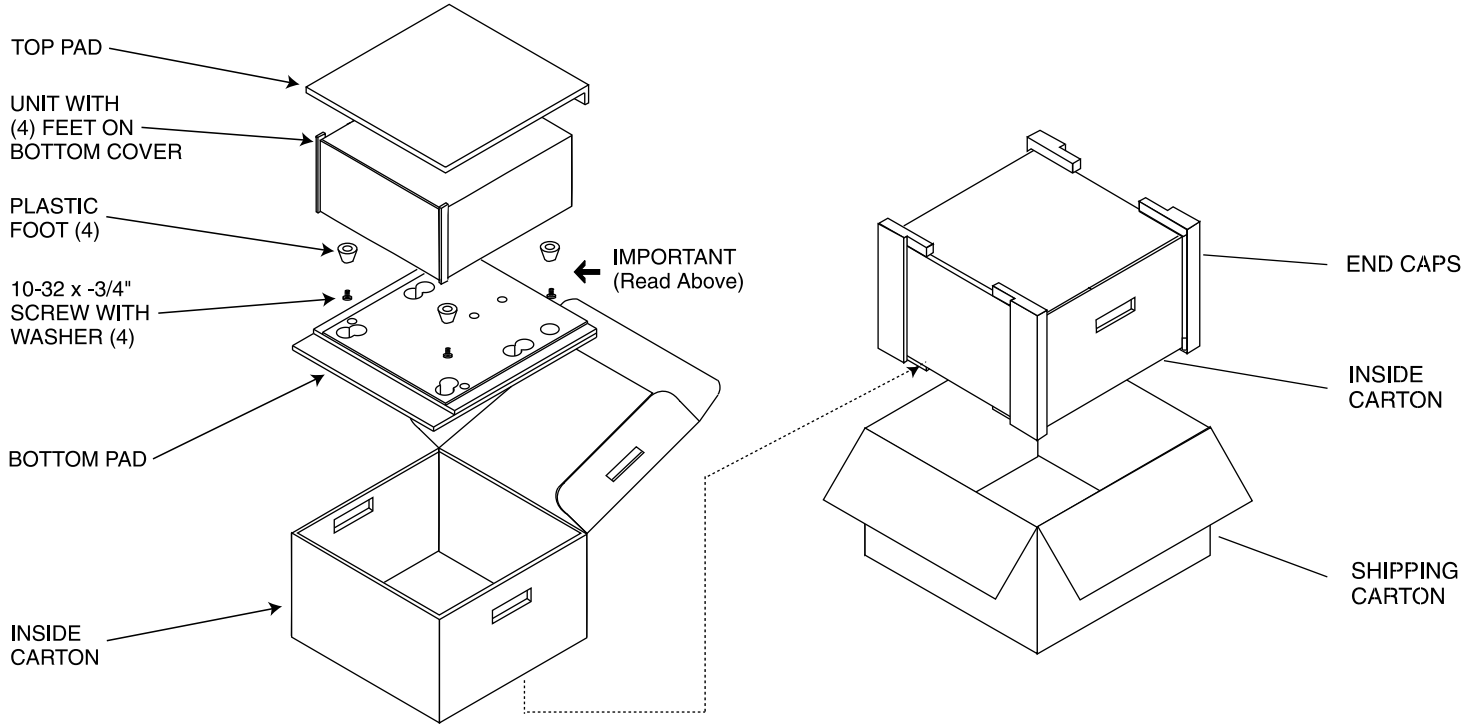
Shipping Carton Dimensions
Width is 26-1/2 inches (67.3cm)
Depth is 24-1/4 inches (62.2cm)
Height is 11-3/4 inches (29.9cm)

Packing Instructions

In the event it is necessary to repack the equipment for shipment, the equipment must be packed exactly as shown below. It is very important that the four plastic feet are attached to the bottom of the equipment. This will ensure the proper equipment location on the bottom pad. Failure to do this will result in shipping damage.

Use the original shipping carton and interior parts only if they are all in good serviceable condition. If a shipping carton or any of the interior part(s) are needed, please call or write Customer Service Department of McIntosh Laboratory. Refer to page 3. Please see the Part List for the correct part numbers.

Quantity	Part Number	Description
1	033838	Shipping carton only
4	033837	End cap
1	033836	Inside carton only
1	033725	Top pad
1	034576	Bottom pad
2	034446	Foam plug
4	017937	Plastic foot
4	400159	#10-32 x 3/4” screw
4	404080	#10 Flat washer





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