harman/kardon

Power for the Digital Revolution.

FL 8385

COMPACT DISC CHANGER
OWNER'S MANUAL

harman/kardon FL 8385

Typographical Conventions

In order to help you use this manual with the remote control, front-panel controls and rear-panel connections, certain conventions have been used.

EXAMPLE – (bold type) indicates a specific remote control or front-panel button, or rear-panel connection jack

EXAMPLE – (OCR type) indicates a message that is visible on the front-panel information display

1 – (number in a square) indicates a specific front-panel control

1 – (number in an oval) indicates a button or indicator on the remote

1 – (number in a circle) indicates a rear-panel connection

A – (letter in a square) indicates an indicator in the front-panel display

HDCD , HDCD®, High Definition Compatible Digital® and Pacific Microsonics™ are either registered trademarks or trademarks of Pacific Microsonics, Inc., in the United States and/or other countries. HDCD system manufactured under license from Pacific Microsonics, Inc.

Thank you for choosing Harman Kardon.® The FL 8385 CD changer is an exceptionally well-engineered product that offers high performance and ease of use.

We ask that you take a few minutes to read through this owner's manual to familiarize yourself with the unit's controls and functions. This brief investment of time will yield years of listening pleasure.

If you have any questions about this product – on its installation or operation – please contact your dealer, who is your best local source of information.

Description and Features

■ Five-Disc CD Changer With Advanced Programming Features That Create Playlists of Selected Tracks, or Play Discs and Tracks in Random Order, for Hours of Uninterrupted Play

■ Plays CD, CD-R and CD-RW Discs

■ HDCD® Decoding Provides Superior Reproduction of All CDs, Whether HDCD-Encoded or Not. When HDCD-Encoded Discs Are Played, Special Circuitry Reveals Detail and Fidelity Not Possible in Ordinary CDs

■ Coax Output for Direct Connection to Outboard Digital-to-Analog Converters or Digital Receivers

■ Intro Search to Automatically Scan a Brief Portion of Each Track to Quickly Locate Your Favorite Selections

■ Play-Exchange Feature Allows Discs to Be Changed While Another Disc Is Playing

■ Discrete Power On and Off Buttons on the Remote Control Facilitate Compatibility With Custom Home Control Systems

For Canadian model

This class B digital apparatus complies with Canadian ICES-003.
For models having a power cord with a polarized plug:
CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

Modèle pour les Canadien

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.
Sur les modèles dont la fiche est polarisee:
ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: To prevent electric shock, do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

The lightning flash with arrowhead symbol, 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.

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.

Important Safety Information

Verify Line Voltage Before Use

Your FL 8385 has been designed for use with 120-volt AC current. Connection to a line voltage other than that for which it is intended can create a safety and fire hazard, and may damage the unit.

If you have any questions about the voltage requirements for your specific model, or about the line voltage in your area, contact your selling dealer before plugging the unit into a wall outlet.

Do Not Use Extension Cords

We do not recommend that extension cords be used with this product. As with all electrical devices, do not run power cords under rugs or carpets or place heavy objects on them. Damaged power cords should be replaced immediately by an authorized service depot with cords meeting factory specifications.

Handle the AC Power Cord Gently

When disconnecting the power cord from an AC outlet, always pull the plug – never pull the cord. If you do not intend to use the unit for any considerable length of time, disconnect the plug from the AC outlet.

Do Not Open the Cabinet

There are no user-serviceable components inside this product. Opening the cabinet may present a shock hazard, and any modification to the product will void your guarantee. If water or any metal object such as a paper clip, wire or a staple accidentally falls inside the unit, disconnect it from the AC power source immediately, and consult an authorized service station.

CAUTION: The FL 8385 uses a laser system. To prevent direct exposure to the laser beam, do not open the cabinet enclosure or defeat any of the safety mechanisms provided for your protection. DO NOT STARE INTO THE LASER BEAM. To ensure proper use of this product, please read this owner's manual carefully and retain it for future use. Should the unit require maintenance or repair, please contact your local Harman Kardon service station. Refer servicing to qualified personnel only.

Installation Location

■ To ensure proper operation and to avoid the potential for safety hazards, place the unit on a firm and level surface. When placing the unit on a shelf, be certain that the shelf and any mounting hardware can support the weight of the product.

■ Make certain that proper space is provided both above and below the unit for ventilation. If this product will be installed in a cabinet or other enclosed area, make certain that there is sufficient air movement within the cabinet.

■ Do not place the unit directly on a carpeted surface.

■ Avoid installation in extremely hot or cold locations, or in an area that is exposed to direct sunlight or heating equipment.

■ Avoid moist or humid locations.

■ Do not obstruct the ventilation slots on the top of the unit, or place objects directly over them.

Cleaning

When the unit gets dirty, wipe it with a clean, soft dry cloth. If necessary, wipe it with a soft cloth dampened with mild soapy water, then a fresh cloth with clean water. Wipe dry immediately with a dry cloth. NEVER use benzene, aerosol cleaners, thinner, alcohol or any other volatile cleaning agent. Do not use abrasive cleaners, as they may damage the finish of metal parts. Avoid spraying insecticide near the unit.

Moving the Unit

Before moving the unit, be certain to disconnect any interconnection cords with other components, and make certain that you disconnect the unit from the AC outlet.

IMPORTANT NOTE: To avoid damage to the FL 8385 which may not be covered by the warranty, be certain that all discs are removed from the unit before it is moved. Once the FL 8385 is placed/installed, discs may be left in the unit when it is turned off, but the unit should NEVER be moved with discs left in either deck.

Important Information for the User

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. The limits are designed to provide reasonable protection against harmful interference in a residential installation. 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 communication. However, there is no guarantee that harmful interference will not occur in a particular installation. If this equipment does cause harmful interference to 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 radio/TV technician for help.

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

NOTE: Changes or modifications may cause this unit to fail to comply with Part 15 of the FCC Rules and may void the user's authority to operate the equipment.

Unpacking

The carton and shipping materials used to protect your new receiver during shipment were specially designed to cushion it from shock and vibration. We suggest that you save the carton and packing materials for use in shipping if you move, or should the unit ever need repair.

To minimize the size of the carton in storage, you may wish to flatten it. This is done by carefully slitting the tape seams on the bottom and collapsing the carton down to a more two-dimensional appearance. Other cardboard inserts may be stored in the same manner. Packing materials that cannot be collapsed should be saved along with the carton in a plastic bag.

If you do not wish to save the packaging materials, please note that the carton and other sections of the shipping protection are recyclable. Please respect the environment and discard those materials at a local recycling center.

It is important that you remove the protective plastic film from the front-panel lens. Leaving the film in place will affect the performance of your remote control.
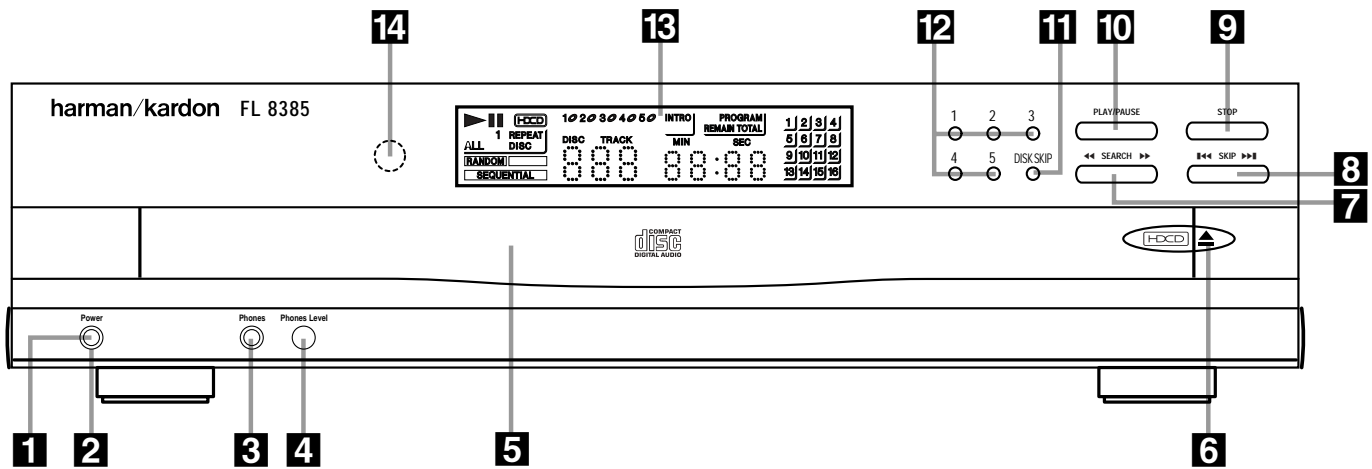
1 Power Switch
2 Status Mode Indicator
3 Headphones Jack
4 Headphones Level Control
5 CD Drawer

6 Open/Close Button
7 Search Button
8 Skip Button
9 Stop Button
10 Play/Pause Button

11 Disc Skip Button
12 Disc Select Buttons
13 Information Display
14 Remote Sensor

NOTE: To make it easier to follow the instructions that refer to this illustration, a larger copy may be downloaded from the Product Support section for this product at www.harmankardon.com.

1 Power Switch: Press this switch to apply power to the FL 8385. When the FL 8385 is first turned on by pressing this switch, the Status Mode Indicator **2** will turn blue, and the Information Display **13** will light. Press the switch again to turn the unit off; the Status Mode Indicator **2** will turn amber, indicating that the unit is in a Standby mode. When the FL 8385 is connected to a switched AC outlet, such as those found on the back of many audio products, it will return to the Standby mode when power is applied to the switched outlet without any further press of the switch.

2 Status Mode Indicator: When the FL 8385 is in the On mode, this indicator will glow blue. When the unit is off, the indicator will glow amber, indicating that the unit is still connected to the AC main supply.

3 Headphones Jack: Connect a set of standard headphones to this jack for private listening.

4 Headphones Level Control: Turn this knob to increase or decrease the volume level for headphones connected to the FL 8385's Headphones Jack **3**. Note that changing this level will not change the sound level for the unit's main output, as that remains constant.

NOTES:
• Always adjust the headphones level to the minimum possible to avoid the possibility of damage to the listener's hearing from unwanted white noise or other transient noises.
• When inserting a disc, wait until the FL 8385 has recognized the disc before using headphones in order to avoid the possibility of hearing potentially damaging white noise.

5 CD Drawer: This drawer holds the discs that will be played. Press the Open/Close Button **6** to open the drawer so that discs may be inserted.

6 Open/Close Button: Press this button to open or close the disc drawer. DO NOT push the drawer to close it or damage to the transport mechanism may result.

7 Search Button: Press one side of this button to search forward ▶▶ or the other side of the button to search backwards ◀◀ through a disc to locate a particular portion of the disc being played.

8 Skip Button: Press one side of this button to move to the next track ▶▶❙ or the other side of the button to move back to the previous track ❙◀◀ on the disc being played.

9 Stop Button: Press this button to stop the disc currently being played.

10 Play/Pause Button: Press this button to start the playback of a CD. If the CD drawer is open, pressing this button will automatically close the drawer. Press this button once during play to momentarily pause a disc. When the button is pressed again, the disc will resume play at the point it was paused.

11 Disc Skip Button: Press this button to change to the next disc. If a disc position is empty, the FL 8385 will automatically search for the next position that contains a disc.

12 Disc Select Buttons: Press one of these buttons to select the disc in a specific position in the CD drawer.

13 Information Display: This display provides details about the operation of the FL 8385.

14 Remote Sensor: The sensor behind this window receives commands from the remote control. Keep this area clear if you wish to use the FL 8385 with a remote control.
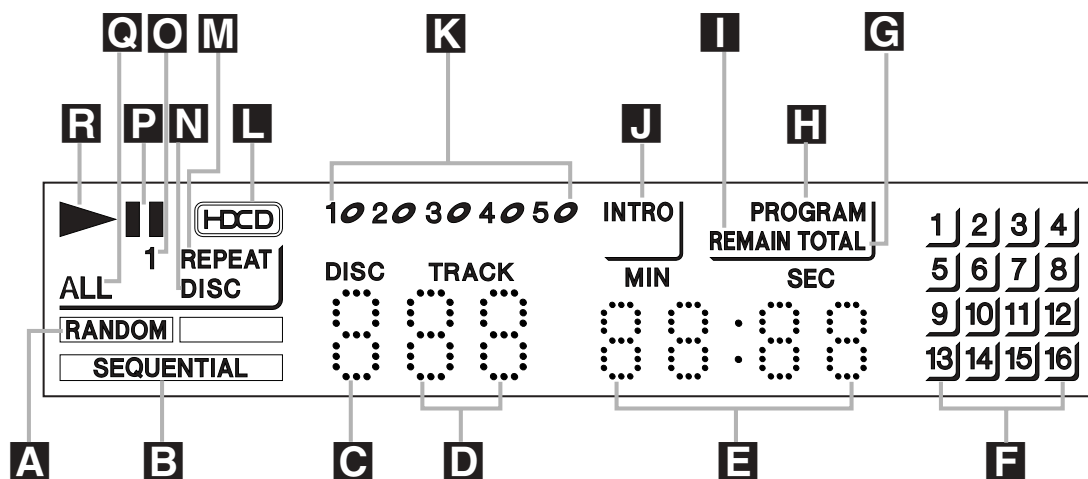
A Random Indicator
B Sequential Indicator
C Disc Number Display
D Track Number Display
E Time Display
F Remaining Tracks Display

G Total Time Indicator
H Program Indicator
I Remaining Time Indicator
J Intro Scan Indicator
K Loaded Disc Indicators
L HDCD Indicator

M Repeat Indicator
N Disc Mode Indicator
O Single Mode Indicator
P Pause Indicator
Q All Mode Indicator
R Play Indicator

NOTE: To make it easier to follow the instructions that refer to this illustration, a larger copy may be downloaded from the Product Support section for this product at www.harmankardon.com.

A Random Indicator: This indicator will light when any of the three Random modes described on page 12 have been selected.

B Sequential Indicator: This indicator will light when the Random, All, Sequential playback mode has been selected. The FL 8385 will play all tracks on the current disc in random order, then advance to the next available disc and play all of its tracks in random order, and so on until all discs have been played once.

C Disc Number Display: The current disc number will be displayed here.

D Track Number Display: The current track number will be displayed here.

E Time Display: This indicator will display either the total running time of the disc currently playing, the total running time of the track currently playing or the time remaining on the currently playing disc. See page 12 for more information on the **Time Display** **E**.

F Remaining Tracks Display: When a disc is first selected, the numbers for each of the tracks on that disc will light, up to 16 tracks. During playback the current track number will flash, and all remaining track numbers will remain lit. The numbers of the preceding tracks will go dark. When playback is stopped, all of the track numbers available on the current disc will light, even if they were previously played. If a disc contains more than 16 tracks, the higher-numbered tracks may be played and their numbers will appear in the **Track Number Display** **D** when selected, but those numbers will not appear in the **Remaining Tracks Display** **F**.

G Total Time Indicator: This indicator will light when the total time on the current disc has been selected for display. See page 12 for more information on the time display function.

H Program Indicator: This indicator will light when the FL 8385 has been placed in programmed-play mode. It will remain lit while a play list is being programmed and during playback of a play list.

I Remaining Time Indicator: This indicator will light when the remaining time on the current disc or in the current track has been selected for display. See page 12 for more information on the time display function.

J Intro Scan Indicator: This indicator will light when the Intro Search mode has been selected as described on page 13. This mode enables you to search for a particular track by previewing the first 10 seconds of each track of each loaded disc, and then selecting the desired track.

K Loaded Disc Indicators: When the unit is turned on, the indicators for all disc positions will light, with the current disc indicated by a flashing red ring. As the FL 8385 circulates through all disc positions, the indicators for positions found to be empty will go out. This display will refresh any time the **CD Drawer** **5** is opened.

L **HDCD Indicator:** This indicator will light when a disc encoded in the HDCD format is played. In order to benefit from the FL 8385's HDCD decoding, the **Analog Audio Outputs ❺** must be connected to corresponding inputs on your receiver or processor, and those inputs must be selected. If you have only connected the **Coaxial Digital Audio Output ❷** to your receiver or processor, you will not hear HDCD playback unless your receiver/processor includes an HDCD decoder. Playback of non-HDCD-encoded discs using the **Analog Audio Outputs ❺** will be enhanced due to the improved filters incorporated in the FL 8385's microprocessor.

M **Repeat Indicator:** This indicator will light when any of the four repeat modes described on pages 13 and 14 has been selected.

N **Disc Mode Indicator:** This indicator will light when either the Random, All Tracks/Discs or Repeat Disc modes has been selected.

O **Single Mode Indicator:** This indicator will light when either the Random 1 disc or Repeat 1 track or disc modes has been selected.

P **Pause Indicator:** This indicator will light when playback has been paused.

Q **All Mode Indicator:** This indicator will light when any of the Random All Sequential, Random All Tracks/Discs or Repeat All Discs modes has been selected.

R **Play Indicator:** This indicator will light during playback.
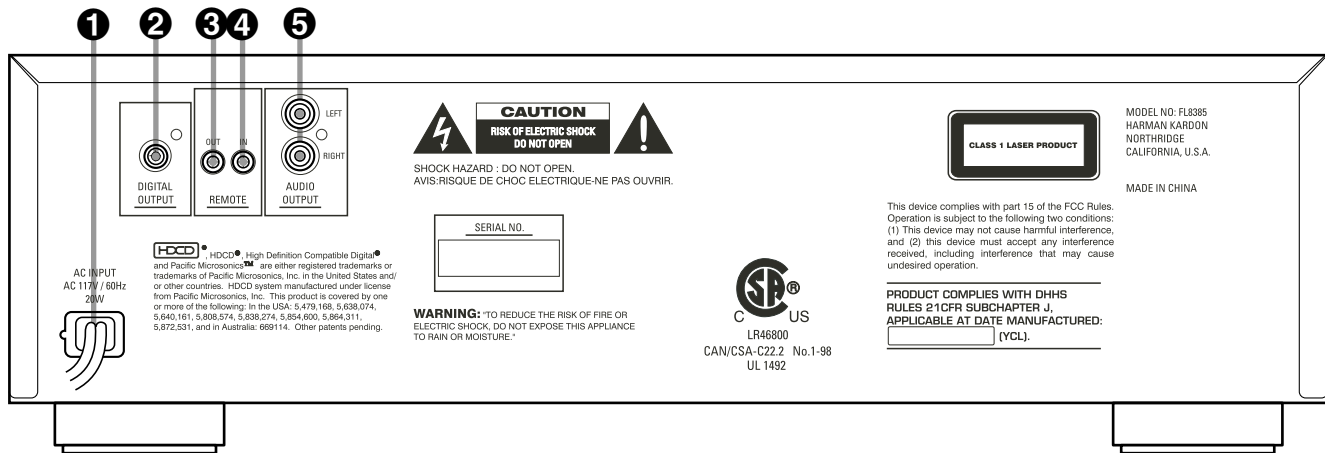
1 AC Power Cord
2 Coaxial Digital Output
3 Remote Control Output

4 Remote Control Input
5 Analog Audio Outputs

NOTE: To make it easier to follow the instructions that refer to this illustration, a larger copy may be downloaded from the Product Support section for this product at www.harmankardon.com.

1 **AC Power Cord:** Connect this plug to an AC outlet. If the outlet is switch-controlled, make certain that the switch is in the ON position.

2 **Coaxial Digital Output:** Connect this jack to the coaxial-digital input of a digital audio/video receiver or an external digital-to-analog converter for direct access to the digital signals of the FL 8385. DO NOT connect this jack to the standard audio inputs of any device.

3 **Remote Control Output:** Connect this jack to the input of another compatible Harman Kardon remote controlled device to have the remote sensor on the FL 8385 provide signals to other products.

4 **Remote Control Input:** Connect the output of a remote infrared sensor or the remote control output of another compatible Harman Kardon product. This will enable the remote control system to operate even when the front panel Remote Sensor **14** is blocked. It will also allow use of the FL 8385 with optional, external control systems.

5 **Analog Audio Outputs:** Connect these jacks to the analog CD audio inputs of your receiver, surround processor or preamplifier.

❶ Disc-Select Buttons

❷ Numeric Buttons

❸ Clear Button

❹ Search Buttons

❺ Skip Buttons

❻ Stop Button

❼ Play Button

❽ Random Button

❾ Pause Button

❿ Program Button

⓫ Time Button

⓬ Intro Button

⓭ Repeat Button

⓮ Disc Skip Buttons

⓯ Power On Button

⓰ Power Off Button

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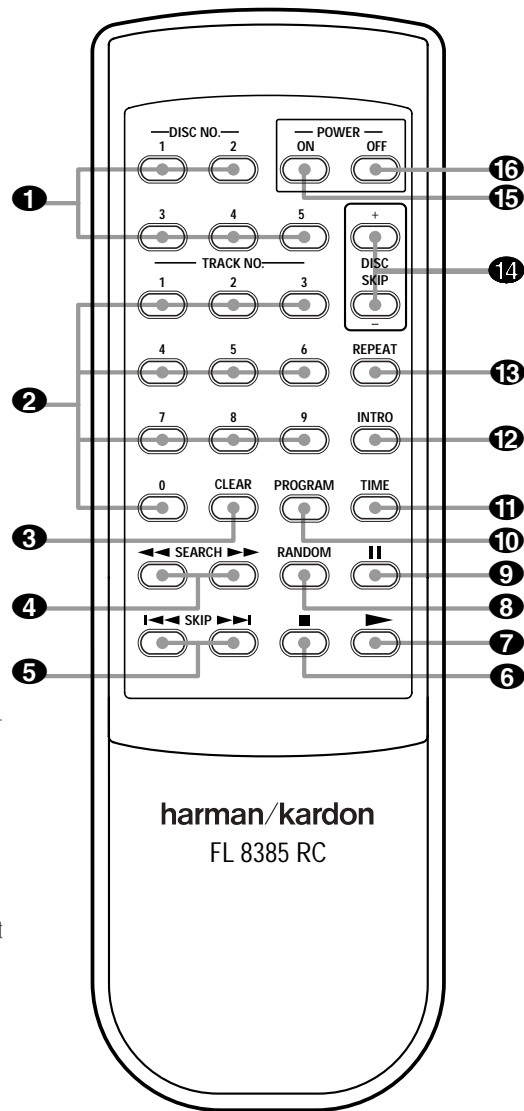
❶ **Disc-Select Buttons:** Press one of these buttons to select the disc in a specific position in the CD drawer.

❷ **Numeric Buttons:** Press these buttons to select a specific track on a disc. The FL 8385 will immediately go to the track and begin to play it. These buttons are also used to enter track numbers into the memory for preprogrammed-play lists. (See page 13 for complete information on programming the FL 8385.)

❸ **Clear Button:** Press this button to remove tracks from a programmed sequence. Each press of the button will remove one track, starting with the last track programmed to play. (See page 13 for complete information on programming the FL 8385.)

❹ **Search Buttons:** Press these buttons to search forward ▶▶ or backwards ◀◀ through a disc to locate a particular portion of the selection being played.

❺ **Skip Buttons:** Press one of these buttons to move to the next track ▶▶▶| or to move back to the previous track |◀◀◀ on the disc being played.

❻ **Stop Button:** Press this button to stop the disc currently being played.

harman/kardon
FL 8385 RC

❼ **Play Button:** Press this button to start the playback of a CD. If the CD drawer is open, pressing this button will automatically close the drawer.

❽ **Random Button:** Press this button to play all of the tracks on a disc in a random order. (See page 12 for more information.)

❾ **Pause Button:** Press this button once to momentarily pause a disc. When the button is pressed again, the disc will resume play from the point at which it was paused.

❿ **Program Button:** This button is used to program the playback of a disc in a particular order. (See page 13 for complete instructions on programming the FL 8385.)

⓫ **Time Button:** In normal operation, the display will show the running time of the track being played. Press the button once to check the time remaining for the track in play. Press the button again to view the total play time remaining for the disc in play. (See page 12 for more information.)

⓬ **Intro Button:** Press this button to put the FL 8385 into the Intro Scan mode. When you press this button, the unit will play the first 10 seconds of each track on the disc, and then move to the next track. Press the button again to defeat the function and continue full play of the current track. (See page 13 for more information.)

⓭ **Repeat Button:** Press this button once to continuously repeat the track currently being played. Press it a second time to repeat the entire disc. (See pages 13 and 14 for more information.)

⓮ **Disc Skip Buttons:** Press these buttons to change to the next disc. If a disc position is empty, the FL 8385 will automatically search for the next position that contains a disc.

⓯ **Power On Button:** When the FL 8385 is plugged into an active AC outlet, press this button to turn the unit on. The **Status Mode Indicator ❷** will turn blue. If the unit is plugged into a switched outlet, power must be applied to the switched outlet in order for the **Power On Button ⓯** to be effective.

⓰ **Power Off Button:** Press this button to turn the unit off; the **Status Mode Indicator ❷** will turn amber, indicating that the unit is in a Standby mode.

INSTALLATION AND CONNECTIONS

To prevent possible damage to your speakers and other components in your audio system, it is important that ALL components, including the FL 8385 and your receiver or preamp and amplifiers, are turned off and unplugged from their AC power source when installing any new component.

Connecting the FL 8385 to your audio system is simple. Using standard RCA-to-RCA interconnect cords, connect the left and right **Audio Output Jacks ❺** on the rear panel to the CD input jacks on your receiver, surround processor or preamplifier.

If your system includes an optional external digital-to-analog converter, or if you are using a receiver or other processor that has the capability to decode PCM digital input signals, connect the **Coaxial Digital Output Jack ❷** to the Coaxial Digital input on the decoder. Make certain to use a coaxial-style interconnect cable, as standard audio cables will not perform as well.

Install the two AA batteries supplied with the FL 8385's remote by turning the remote over so that you are holding the bottom side up. Press lightly on the embossed arrow on the cover and gently slide the cover towards you in the direction of the arrow. Insert the batteries inside the compartment, being careful to follow the + and – polarity indications at the bottom of the compartment. Replace the cover by placing it on the remote and sliding it back towards the top of the remote.
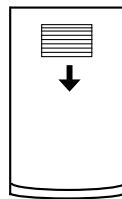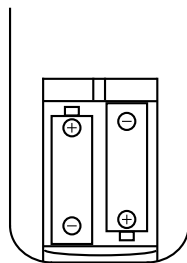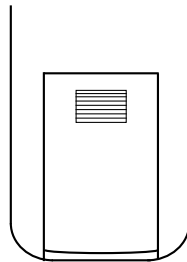
NOTE: When replacing batteries, it is always a good idea to replace both at the same time. When the unit will not be used for an extended period of time, it is also a good idea to remove the batteries so that the potential for corrosion or damage is avoided.

If the FL 8385 is installed behind a cabinet or other obstruction that may block the path between the front panel **Remote Sensor 14** and the location of the remote, an optional external IR sensor may be used. Connect the sensor to the **Remote Control Input Jack ❹** on the rear panel. This jack may also be connected to the IR-Output jack of another compatible Harman Kardon component or a compatible IR-system-remote product.

You may also use the IR Sensor in the FL 8385 to send commands to other compatible remote controlled products. Connect the **Remote Control Output Jack ❸** to the input of the other product or system.

Connect the power to a nonswitched AC wall outlet or to the accessory outlet on the rear of another audio device in your system and you are ready to go!

NOTE: When using the accessory outlet on another product to power the FL 8385, make certain that it has the compatibility to power a device that draws at least 20 watts of current in addition to being able to handle the requirements of the other devices that may be plugged into the accessory outlets. If you use a "switched" outlet, it is important to remember that the host product must be turned on in order for the FL 8385 to operate.

Disc Formats Supported by This Player

The FL 8385 is capable of playing any conventional Audio CD and most recordable (CD-R) or erasable (CD-RW) audio discs bearing the logos shown below. The FL 8385 is also capable of playing data discs, but *only* if they contain music audio files conforming to the CD-DA ("Red Book") standard. When creating these types of discs using your computer, make sure to burn the discs as "music discs", not "data discs", as the data discs will not be able to play on the FL 8385 or most other audio CD players. Consult the documentation for your computer software for further information on how to create audio discs on your computer that will be compatible with audio CD players. CD-DA discs created on your computer as described above do not need to bear the audio disc logos shown below.

The FL 8385 is not capable of playing data discs other than those in the CD-DA format; discs containing WAV files; discs containing MP3, WMA or other compressed audio files; DVD discs of any type; VCD or SVCD discs; DVD-ROM or DVD-RAM data discs; CD-I discs; CD-G discs, or Photo CD™ or JPEG discs.

Compact discs created in the DTS® format may only be played using the Coaxial Digital Output ❷ connected to a receiver or processor with a DTS decoder; If you attempt to play a DTS disc using the Analog Audio Outputs ❺ or the Headphones Jack ❸, you will only hear white noise. Always adjust the Headphones Level Control ❹ to the minimum possible in order to avoid any possibility of damage to your hearing should the white noise be played through the headphones at a high volume.

If you insert a disc into the FL 8385 that is not in a supported format, the message **dISC** will be displayed. Remove the disc, and insert a compatible audio CD, CD-R or CD-RW disc. It is recommended that you wait until the disc has been recognized by the FL 8385 before using the headphones in order to avoid the possibility of hearing potentially damaging white noise.

Loading Discs

To load a disc, first turn the FL 8385 on, using the Power Switch ❶ or the Power On ⓯ button on the remote. Note that the Status Mode Indicator ❷ will turn blue and the Information Display ⓭ will light. The word **dISC** will flash in the Information Display, and the disc tray will automatically turn clock-wise so that the FL 8385 can sense which, if any, of the disc positions already have a disc.

To load a disc, first press the Open/Close Button ❻, taking care that the space in front of the drawer is not obstructed. If the drawer is blocked when you attempt to open it, it will automatically close within five seconds to protect the mechanism.

Load discs in the tray with the printed (label) side facing up toward you. Make certain that the disc is centered in the tray. Either 5" (12cm) or 3" (8cm) discs may be used. When a 3" (8cm) disc is played, it should be carefully centered within the smaller ridges on the tray. Only one CD can be placed in any position at a time. When a 3" (8cm) disc is played, DO NOT place a standard 5" (12cm) disc over the smaller disc.

Labeled surface

Recorded surface
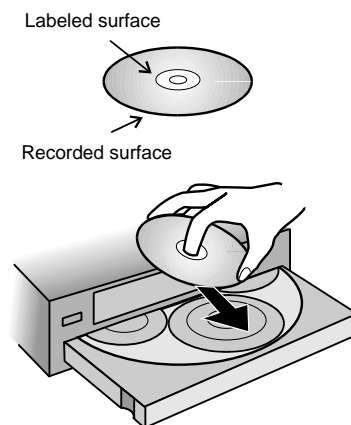
Each disc position has a number embossed in the plastic tray. This corresponds to the position this disc will occupy for playback and programming. To make it easier to identify each disc's position, the disc position number for the holder space that is in the center of the disc tray will also appear in the Information Display ⓭ when the disc drawer is open.

To rotate the disc tray to another position, press the Disc Skip Button ⓫⓮. The tray will revolve to the next slot and the Loaded Disc Indicators Ⓚ and Disc Number Display Ⓒ will indicate the position number for the slot in the middle of the tray.

To close the disc drawer, press the Open/Close Button ❻. When the drawer closes, the disc that was last in the center position on the tray will be readied for play. Its number will appear in the Disc Number Display Ⓒ and a red icon next to its Loaded Disc Indicator Ⓚ will light. The Loaded Disc Indicator Ⓚ for all other tray positions that have a disc will be lit. If the center disc position is empty when the drawer is closed, the unit will search for the next position with a loaded disc and place it in the Ready mode.

The drawer may also be closed and the FL 8385 put into play by pressing the Play/Pause Button ⓾❼. This will put the disc in the center position into the Play mode.

To close the drawer and play a specific disc, press the Disc Select Button ⓬ ❶ corresponding to the tray position number for the disc you wish to play.

When the disc drawer closes, the FL 8385's carousel will spin through each of the disc positions, and each position's number will appear briefly in the Disc Number Display Ⓒ. When the FL 8385 detects a disc in any position, the Loaded Disc Indicator Ⓚ for that position will light. After a few seconds, the FL 8385 will place the last loaded disc in the play position, and will display a red icon to the right of its Loaded Disc Indicator Ⓚ. Its disc number, total number of tracks, and total running time will be displayed in the Disc Number Ⓒ, Track Number Ⓓ and Time Ⓔ Displays, and all of the tracks will be lit in the Remaining Tracks Display Ⓕ.

To remove a disc from the player, press the Open/Close Button ❻. The drawer will open, allowing the disc to be removed. Press the Disc Skip Button ⓫⓮ to rotate the disc carousel tray to reach discs that may be covered. When a disc does not occupy a numbered tray, and the sensor detects no disc present, the disc number will drop from the Loaded Disc Indicator Ⓚ.

Upon placing a disc in the unoccupied tray, the disc number will reappear in the Loaded Disc Indicator Ⓚ when detected by the sensor mechanism.

Disc-Handling Notes
When loading or unloading discs, it is best to hold them by the edges.

While compact discs are very reliable, rough handling may damage them. Avoid scratching the bottom (non-printed) side of discs, and any handling that will leave fingerprints.

To avoid damage to the disc and player, always seat discs so that they are centered in the tray.

Do not lift the player while the disc tray is opening or closing, as this may cause the discs to unseat from the tray and possibly jam.

NOTE: Always remember to remove all discs from the player before moving or repacking it.

Normal Play

The FL 8385 provides a variety of ways to select discs for playback.

To play all of the tracks on each disc in order, starting with the first track on the disc currently in the play position, and proceeding through each disc that has been loaded, press the **Play/Pause Button 10** on the front panel, or the **Play Button 7** on the remote.

To start play on a specific disc, press the **Disc Select Button 12 1** that corresponds to the desired disc's position in the disc tray. If no disc is found in the selected position, the unit will search for the next disc.

When a disc is in play, the **Play Indicator R** will be lit. The track being played will appear in the **Track Number Display D** and its icon in the **Remaining Tracks Display F** will flash. The elapsed time will appear in the **Time Display E**. As the disc plays, the track numbers shown in the **Track Number Display D** will change, and the time shown in the **Time Display E** will reset to $00:00$ at the start of each new track.

To momentarily pause the play of a disc, press the **Play/Pause Button 10** on the front panel, or the **Pause Button 9** on the remote. The **Pause Indication P** will appear in the display to remind you that the disc is paused. Press either the **Play Button** (**Play/Pause** on front panel) **10 7** or the **Pause Button 9** to resume normal play.

You may also select a track on any disc in play by entering the desired track number directly using the **Numeric Buttons 2**. Note that two buttons must always be pressed when entering a track number. Thus, when entering track numbers 1 through 9, press the "0" button first and then the number for the desired track. The two buttons must be entered within three seconds of each other.

To stop the disc, press the **Stop Button 9 6**. When the stop button is pressed, the display will again show the total number of tracks and total running time of the last disc played.

Random Play

The FL 8385 includes three Random Play modes that enable you to let the machine select the tracks to be played in a random order. The Random modes may be started at any time by pressing the **Random Button 8** on the remote when the unit is already in Play mode.

Random: To play all the tracks on a disc in random order, press the **Random Button 8** ONCE so that the **Random Indicator A** lights. The FL 8385 will play the tracks on the disc in an order selected by the unit's microprocessor and stop play when all of the tracks have been played once.

Random, Sequential: When the **Random Button 8** is pressed TWICE, the **Random A** and **Sequential B Indicators** will light. In this mode, all tracks on the current disc will be played in random order, and then the unit will advance to the next disc in order and play all tracks on that disc randomly. When each disc is finished, the next disc will play its tracks in random order until all discs have been played. After the last disc plays, the unit will stop.

Random, All Discs: When the **Random Button 8** is pressed THREE times, the **Random A**, **All Q** and **Disc N Indicators** will light. In this mode, the FL 8385 will select two tracks from the disc in use and play them randomly. After these two tracks play, another disc will be randomly selected and two tracks will play from that disc. This pattern of a randomly selected disc, and the play of two random tracks from each disc, will continue until all tracks on all discs have been played. At that point the unit will stop.

HDCD

HDCD, which stands for High Definition Compatible Digital,® is a sophisticated process that enables the FL 8385 to deliver outstanding digital-to-analog decoding, no matter what type of CD is played.

When a disc with the HDCD logo is played, the FL 8385 is able to take advantage of the special recording process that is used in the creation of HDCD discs. Although HDCD discs are playable on any CD player, when they are used in a unit such as the FL 8385, the special circuitry delivers audio with extraordinary fidelity, stunning resolution and the highest possible overall quality. The HDCD process effectively cancels the additive and subtractive distortions that are present in other recordings.

No special adjustment is required to play an HDCD disc. Simply play the disc as you would any other CD, and the FL 8385 will automatically sense that it is an HDCD recording. The **HDCD Indicator L** will light in the **Information Display 13** on the front panel to remind you that an HDCD disc is playing.

It is important to note that the HDCD process is completely compatible with standard recordings. Its high-quality digital-to-analog circuitry provides enhanced playback from all standard CD audio discs.

Play Exchange

The FL 8385's Play Exchange feature allows you to change discs while the machine is playing. Using this feature, you can enjoy uninterrupted play of an unlimited number of discs, since the drawer may be opened and discs changed while another disc is playing.

To use the Play Exchange function, simply press the **Open/Close Button 6** at any time while the unit is in the Play mode. The disc drawer will open and two discs will be available for change. Replace either disc, or both, as desired. To reach the other two discs, press the **Disc Skip Button 11 14**. You may now remove and change either of these two discs.

When you have finished making any disc changes, press the **Open/Close Button 6**. The drawer will close and play will continue with normal functions.

Time Display

The FL 8385's **Time Display E** is capable of showing a wide range of information about a CD.

In normal operation, the display will show the total running time of the track that is currently being played. Each time the track changes, the **Time Display E** will reset to $00:00$ and begin to increase again as the disc plays.

To view the time remaining on an individual track, press the **Time Button 11** on the remote control ONCE. The **Time Display E** will now show the time left in the track currently playing.

To view the total playing time remaining on a disc, press the **Time Button 11** on the remote control TWICE. In this Time Display mode the **Track Number Indicator D** will show the tracks remaining, differing from the usual display of the track being played.

Headphone Listening

You may listen to the output of the FL 8385 through headphones by plugging any headphones with a ¼" headphone plug or adapter into the front-panel **Headphones Jack 3**. The volume of the headphone output can be adjusted with the **Headphones Level Control 4**. Note that changing the headphone level will not change the volume for the main audio output. This is a fixed output and it is changed using the volume control on your receiver, preamplifier or surround processor.

The FL 8385 is equipped with a variety of functions that make it easy to search for specific tracks or passages on any CD.

Search

If you wish to quickly scan through a disc to locate a particular passage or program, press the **Search Buttons** **7** **4**. The **Forward Search Button** ►► plays the disc forward at high speed, while the **Reverse Search Button** ◄◄ plays the disc backwards at high speed. The front panel features a single **Search Button** **7**; press the right side for forward search ►►, or the left side for reverse search ◄◄. The forward and reverse search functions may also be performed using the separate **Search Buttons** **4** on the remote. When the desired part of the disc is heard, release the **Search Buttons** **7** **4** to resume normal play speed.

Skip

To move from one track on a disc to another, press one of the **Skip Buttons** **8** **5**. Pressing the **Forward Skip Button** ►►▮ will move you forwards through the disc one track at a time, while pressing the **Reverse Skip Button** ▮◄◄ will move you back one track at a time. The front panel features a single **Skip Button** **8**; press the right side for **Forward Skip** ►►▮, or the left side for **Reverse Skip** ▮◄◄. The forward and reverse skip functions can be performed using separate **Skip Buttons** **5** on the remote.

The Skip buttons may be used when the FL 8385 is either playing or stopped. If the unit is stopped, the Skip buttons may be used to locate the first track to be played. The **Play Button** **7** (**Play/Pause** on the front panel **10**) must be pressed to begin play. If the Skip buttons are used while the unit is already playing, the audio output will stop while the new track is located, and play will automatically resume after the Skip button is released.

Intro Search

This feature lets you locate a track by playing the first 10 seconds of each track. When the **Intro Button** **12** on the remote control is pressed, the unit will play only 10 seconds of each track and then automatically move to the next track. When you have reached a track that you wish to listen to in its entirety, press the **Intro Button** **12** again to resume normal operation. When the Intro feature is activated, the **Intro Scan Indicator** **J** will light in the **Information Display** **13** to remind you that Intro Search is in use.

When the **Intro Button** **12** is pressed, the FL 8385 will first play through the disc that is currently in the play position and then move on to each disc position that is loaded.

Programmed Playlists

The FL 8385's advanced programming capability enables you to preset the order in which tracks play, repeat specific discs or tracks, repeat all discs and tracks, and/or repeat any portion of a specific disc. Programmed play allows you to program up to 32 tracks into the FL 8385's memory. To begin programming the FL 8385, press the **Program Button** **10** on the remote control. The `Program Indicator` **H** will light in the **Information Display** **13**.

You may now begin to enter the discs and tracks in the order in which you wish to have them play. Once the `Program Indicator` **H** is lit, `P-01` will appear in the Information Display, replacing the track time. This indicates that you are about to program the first step. `AL` will flash in the **Track Number Display** **D**, and all of the numbers in the **Remaining Tracks Display** **F** will flash.

To have all tracks on the disc play in order as the first program step, press the **Program Button** **10**. To select a single track on the disc, press the **Numeric Buttons** **2** corresponding to the desired track. You may also use the **Skip Buttons** **8** **5** to select a track. You may select a different disc to be programmed at any time by pressing the **Disc Select Button** **12** **1**.

When the disc and track are selected, press the **Program Button** **10**. The program-step indication in the Information Display will change to `P-02`. You may now select another disc and/or track for the next program step, following the instructions shown above. When the program step is selected, press the **Program Button** **10**. Repeat this procedure for each program step until you have completed the desired programming. Press the **Stop Button** **9** **6** to complete a program sequence, or press **Play** **7** (**Play/Pause** **10** on the front panel) to begin immediate play of a program sequence. If the maximum of 32 program steps is reached, the program-step indication will go out, and the disc and track that have been programmed as the first program step will be shown.

Once a program list has been entered, press the **Play Button** **7** (**Play/Pause** **10** on the front panel) to begin listening to the sequence. After the entire program has been played, the FL 8385 will stop. As long as the **Stop Button** **9** **6** has not been pressed and the **Program Indicator** **H** remains lit, you may play the program list again by pressing the **Play Button** **7** (**Play/Pause** **10** on the front panel).

Pressing the **Stop Button** **9** **6** twice, opening the disc drawer by pressing the **Open/Close Button** **6**, or turning the FL 8385 off will erase the program information from the unit's memory.

Checking Program Contents

To check the contents of a program while the unit is stopped, press the **Skip Buttons** **8** **5** and the **Information Display** **13** will step through each of the programmed discs and tracks.

Clearing Programs

To clear a single track from the program list, press the **Program Button** **10** on the remote until the track to be deleted from the program sequence appears in the **Information Display** **13**. When the track number appears, press the **Clear Button** **3** on the remote once. Press the **Program Button** **10** to select other items to be deleted, or the **Stop Button** **9** **6** to end the deletion process.

When the unit is stopped, but the **Program Indicator** **H** is still lit, you may clear the entire contents of a program by pressing the **Clear Button** **3** on the remote.

Repeat Play

The FL 8385's programming system enables you to repeat all of the tracks on all of the discs, a complete single disc, or a single track.

Repeat Track Play
To repeat a single track, press the **Repeat Button** **13** on the remote control while the desired track is playing so that the `Repeat` **M** and 1 **O** Indicators are lit. The desired track may also be selected using the **Disc Select Buttons** **12** **1** and then the **Skip Buttons** **8** **5**. When the track is chosen, press the **Repeat Button** **13** on the remote control and the **Play Button** **7** (**Play/Pause** **10** on the front panel). The track will play until the **Stop Button** **9** **6** is pressed.

Repeat Disc Play
To repeat an entire disc, press the **Repeat Button** **13** twice so that the `Repeat` **M**, 1 **O** and `Disc` **N** Indicators are lit. Press the **Disc Select Buttons** **12** **1** until the desired disc's icon lights and the disc number appears in the **Information Display** **13**. Press the **Play Button** **7** (**Play/Pause** **10** on the front panel) to begin playback. The selected disc will play through to the end and then continue to repeat until the **Stop Button** **9** **6** is pressed.

PROGRAMMED-PLAY OPERATION

Repeat All Discs

To repeat all of the discs that have been loaded into the FL 8385, press the Repeat Button **13** three times so that the Repeat **M**, All **Q** and Disc **N** Indicators are lit. Press the Play Button **7**, (Play/Pause **10** on the front panel) and the unit will play all tracks on all discs, starting with the disc that has been loaded in the play position. When all discs have played through, the sequence will repeat and the discs will continue to play until the Stop Button **9 6** is pressed.

NOTES:

• You may cancel a repeat function any time by pressing the Repeat Button **13** until the REPEAT Indicators **M N O Q** go out. The player will continue with normal play and then stop when the current disc is finished playing.

• It is also possible to combine the Random and Repeat functions. Select the Random mode by pressing the Random Button **8** once, then press the Repeat Button **13** once to select a track on the current disc randomly, and to repeat that track until play is stopped. Press the Repeat Button **13** again to randomly play all of the tracks on the current disc, and then to repeat random play of the disc, but with the tracks selected in a different random order. In order to repeat random play of all discs or all discs sequentially, press the Random Button **8** again until the desired indicators (either Random **A** and Sequential **B**, or Random **A**, All **Q** and Disc **N**) are lit.

TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSE	SOLUTION
No lights on front panel	• No AC power	• Make certain that the AC power cord is plugged into a live outlet
Remote does not appear to operate	• Main Power Switch turned off • Weak batteries • Blocked sensor	• Turn on Main Power Switch • Install fresh batteries, observing polarity indications • Remove obstructions from the front panel sensor, or connect a remote sensor to the Remote Control Input **4** jack 0on the rear panel
Front panel lights but CD does not play	• Disc upside down • Moisture inside unit	• Turn CD over so that label side faces up • Leave the unit turned ON for 30 minutes to allow moisture to evaporate
Play indicator lights but no sound is heard	• Receiver or preamp and amp not turned on • Poor connections • Wrong source selected	• Turn on all necessary equipment • Make certain connections are secure and made to the correct (e.g., CD) input • Select CD source on receiver or preamp
Sound skips or stutters during play	• Disc may be damaged • Surface vibrations	• Try another disc • Isolate the unit from vibration by placing it on a firm surface or move it further away from speakers
Sound is continually distorted	• Incorrect input	• Make certain that the FL 8385 is connected to a line-level audio input, NOT a digital audio or phono input

Signal Format

Sampling Frequency	44.1kHz
HDCD Processing	Burr-Brown™ PCM1732
D/A Conversion	Dual 18-Bit
Oversampling	8 Times

Discrete Analog Output Section

Error Correction	CIRC System
Frequency Response	20Hz – 20kHz +0, –1dB
Total Harmonic Distortion (THD)	<0.02% @1kHz
Dynamic Range	>97dB
Signal-to-Noise Ratio	>97dB
Channel Separation	80dB
Line-Level Output	1.0V RMS

Digital Output

Digital Output	Coax

General

Power Requirement	120V/60Hz	
Power Consumption	20 Watts	
Dimensions	(Product)	(Shipping)
Height	5.1" (130mm)	9.0" (229mm)
Width	17.3" (440mm)	22.6" (575mm)
Depth	15.0" (380mm)	19.5" (495mm)
Weight	(Product)	(Shipping)
	16.5 lb (7.5kg)	19.8 lb (9.0kg)

Depth measurement includes knobs and buttons.

Height measurement includes feet and chassis.

All features and specifications are subject to change without notice.

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