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CARVERaudio.com

CARVER

Powerful • Musical • Accurate

SD/A-360
5-Disc Carousel CD Player
with Linear Single-Bit D/A Converter

Owner's Manual

CARVER

1. Safety Instructions

1. Read Instructions — All the safety and operation instructions should be read before the Carver Component is operated.

2. Retain Instructions — The safety and operating instructions should be kept for future reference.

3. Heed Warnings — All warnings on the Component and in these operating instructions should be followed.

4. Follow Instructions — All operating and other instructions should be followed.

5. Water and Moisture — The Component should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

6. Ventilation — The Component should be situated so that its location or position does not interfere with its proper ventilation. For example, the Component should not be situated on a bed, sofa, rug, or similar surface that may block any ventilation openings; or placed in a built-in installation such as a bookcase or cabinet that may impede the flow of air through ventilation openings.

7. Heat — The Component should be situated away from heat sources such as radiators, or other devices which produce heat.

8. Power Sources — The Component should be connected to a power supply only of the type described in these operation instructions or as marked on the Component.

9. Power Cord Protection — Power-supply cords should be routed so that they are not likely to be walked upon or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit the Component.

10. Cleaning — The Component should be cleaned only as recommended in this manual.


11. Non-use Periods— The power cord of the Component should be unplugged from the outlet when unused for a long period of time.

12. Object and Liquid Entry — Care should be taken so that objects do not fall into and liquids are not spilled into the inside of the Component.

13. Damage Requiring Service — The Component should be serviced only by qualified service personnel when:


- A. The power-supply cord or the plug has been damaged; or
- B. Objects have fallen, or liquid has spilled into the Component; or
- C. The Component has been exposed to rain; or
- D. The Component does not appear to operate normally or exhibits a marked change in performance; or
- E. The Component has been dropped, or its cabinet damaged.

14. Servicing — The user should not attempt to service the Component beyond those means described in this operating manual. All other servicing should be referred to qualified service personnel.




CAUTION


**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL**




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 of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

PORTABLE CART WARNING



Carts and stands - The Component should be used only with a cart or stand that is recommended by the manufacturer. A Component and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the Component and cart combination to overturn.

2

Please report any sales of this manual to our forum @ www.CARVERaudio.com

15. 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.

Pour prévenir les chocs électriques ne pas utiliser cette fiche polarisée avec un prolongateur, un prise de courant ou une autre sortie de courant, sauf si les lames peuvent être insérées à fond sans laisser aucune partie à découvert.

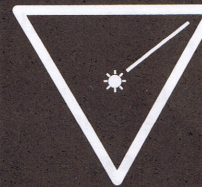
16. Grounding or Polarization — Precautions should be taken so that the grounding or polarization means of the Component is not defeated.

17. Internal/External Voltage Selectors — Internal or external line voltage selector switches, if any, should only be reset and re-equipped with a proper plug for alternate voltage by a qualified service technician. See an Authorized Carver Dealer for more information.

18. Attachment Plugs for Alternate Line Voltage (Dual voltage models only) — See your Authorized Carver Dealer for information on the attachment plug for alternate voltage use. This pertains to dual-voltage units only.

This apparatus does not exceed the Class A/Class B (whichever is applicable) limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

ATTENTION — Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de class A/de class B (selon le cas) prescrites dans le règlement sur le brouillage radioélectrique édicté par les ministere des communications du Canada.



CAUTION - HAZARDOUS LASER AND ELECTROMAGNETIC RADIATION WHEN OPEN AND INTERLOCK DEFEATED.

ATTENTION - RAYONNEMENT LASER ET ELECTROMAGNETIQUE DANGEREUX SI OUVERT AVEC L'ENCLICHEMENT DE SECURITE ANNULE.

DANGER - Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM.

WARNING - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

This Carousel Compact Disc Player is made and tested to meet exacting safety standards. It meets UL and FCC requirements and complies with safety performance standards of the U.S. Department of Health and Human Services.

CAUTION - USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

THE CAROUSEL COMPACT DISC PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.

FCC INFORMATION

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 any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These 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 communications. However, there is no guarantee that 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:

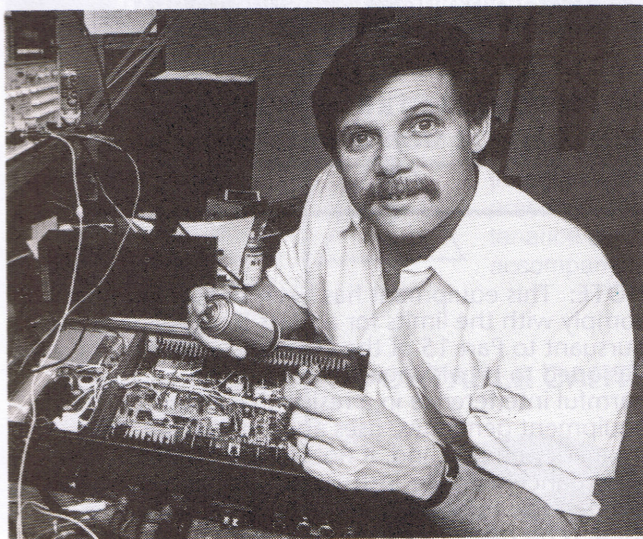
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

SD/A-360

Contents

1. Safety Instructions	2	Rear Panel Connections	8
2. A Message From Bob Carver	4	Connections - Conventional Hook-up	8
3. Features and Specifications	5	Connections - Digital Hook-up	9
4. Unpacking and Paperwork	6	System Configurations	9
5. Installation	6	6. Operation	10
Placement and General		Front Panel Features	10
Considerations	6	Remote Control	14
Handling Compact Discs	7	RC-5 Remote Control Bus	19
Getting Started	7	7. In Case of Difficulty	20
Connection Tips	7	8. Care and Service Assistance	21

2. A Message from Bob Carver



Congratulations on your purchase of a new Carver SD/A-360 Multi Compact Disc Player. We expect that its sophisticated engineering and meticulous craftsmanship will provide you with many years of listening enjoyment.

The SD/A-360 is a 5 disc carousel CD player with Linear Single Bit D/A Conversion for increased sonic definition, detail and accuracy. You have chosen a "quality-first" CD player with triple-beam laser scanning, full remote control including intro scan, shuffle and repeat play.

In addition, the SD/A-360 features edit play, which allows you to easily record from CD to tape. The SD/A-360 will calculate how many tracks will fit on a side and pause just before the end of the tape to allow you time to turn the tape over and begin recording the remaining tracks on the other side.

For added convenience and versatility, remote control jacks are included to connect with systems using the increasingly popular RC-5 bus format. And to top things off, the SD/A-360 provides an optical digital output which can be used to pass the digital signal to an outboard digital-to-analog converter using a fiber optic cable. This will transmit the signal in the cleanest possible way.

Your SD/A-360 compact disc player was designed by people with a lifetime commitment to providing the world's finest components for music reproduction and home entertainment. Thanks for placing your confidence in Carver, and we hope your new CD player will provide many years of listening enjoyment.

Very truly yours,

Bob Carver
Chairman

3. Features and Specifications

SD/A-360 Special Features

- Linear single-bit D/A converters
- 8 times oversampling with noise shaping high precision digital filters
- 3 beam laser pick up
- Full function remote control
- Remote control jacks for connecting to other RC-5 compatible components
- 5-disc carousel
- Allows you to change up to 2 discs without interrupting play
- Accepts 3" and 5" discs
- Multi-disc programming plays up to 32 tracks from any of the 5 discs.
- 3 repeat modes
- 2 shuffle play modes
- Edit mode for easy recording to tape
- Intro Scan allows you to quickly audition the contents of a disc
- Optical digital output allows use of outboard D/A converter

Specifications

Frequency Response:

20Hz to 20kHz (± 0.5 dB)

Signal-to-Noise Ratio:

More than 100 dB

Total Harmonic Distortion:

0.004% at 1kHz

Channel Separation:

>80 dB at 1kHz

Wow and Flutter:

Unmeasurable

D/A Conversion:

Bitstream (1 bit)

Dynamic Range:

90 dB

Line Output Level at 0dB:

2.0V rms (± 0.5 dB), into 100 kilohms

Output Impedance:

1 kilohm

Laser:

3-beam, 790 nm

Power Consumption:

20W

Power Requirements:

120VAC/60Hz (USA and Canada)
Other voltages as required for export

Size (H x W x D):

4.0" x 19.0" x 16.75" (including handles)
102mm x 483mm x 425mm

Net Weight:

14.6 lbs. (6.6 kgs)

Shipping Weight:

18.1 lbs. (8.2 kgs)

Accessories:

RH-60 Handheld Remote Control, Two AA batteries, One pair connecting cords.

Features and specifications are subject to change without notice.

SD/A-360

4. Unpacking and Paperwork

Carefully unpack your SD/A-360 and keep the original carton and packing materials for future moving, shipment or long-term storage.

After opening the box, please check for any visible signs of damage that were not apparent from the outside of the box. If you do encounter what appears to be concealed damage, please consult your Carver Dealer before proceeding to further unpack or install the unit.

Important Paperwork

Make sure to save your sales receipt. Your receipt is extremely important to establish the duration of your Limited Warranty, and for insurance purposes. Next, make a note of the serial number which is located on the back of the SD/A-360. Record it in the space provided below for convenient reference.

Model: **SD/A-360**

Serial Number: _____

Purchased at: _____

Date: _____

Finally, take a moment to fill out and return the Warranty Card packed with the SD/A-360 and return it to Carver. This provides us with important information about you, our valued customer.

5. Installation

Placement and General Precautions

Observe the following precautions when choosing a location for the SD/A-360:

- Do not expose the unit to rain or moisture. If a fluid or foreign object should enter the unit, disconnect the power plug and contact an authorized dealer or service center. Do not pull out the plug by pulling on the cord; grasp the plug firmly.
- Protect from prolonged exposure to direct sunlight.
- Avoid excessive exposure to extreme cold or dust. If the SD/A-360 is cold and brought into a warm room, condensation may form on the laser mechanism and prevent normal operation. Wait at least 30 minutes to allow the unit to warm to room temperature before playing.
- Avoid exposure to electrostatic discharge.
- Do not place heavy objects on the unit.
- Protect from heat and allow adequate ventilation. Place away from direct sources of heat, such as heating vents and radiators. Avoid placing on top of a power amplifier.
- Don't place the SD/A-360 directly next to, or on top of a receiver or FM/AM tuner. Instead, to prevent possible interference when listening to AM or FM while the SD/A-360 is turned on, we suggest that your new CD player be positioned at least one component away from a tuner or receiver when stacking or placing your equipment in a row or on a shelf (see FCC Information on page 3).
- Avoid placing the SD/A-360 next to or on top of a television set, cable converter box or video cassette recorder.
- Avoid placing the SD/A-360 where it will receive heavy vibration, such as on top of a large speaker or subwoofer. While the SD/A-360 is acoustically isolated against most physical shocks, it WILL skip if jarred too violently.

Handling Compact Discs

The SD/A-360 has been designed to play compact discs bearing the identification logo shown below. No other discs can be played.



The SD/A-360 uses sophisticated tracking and error correction circuits to read through defects on discs. While playback is not impaired by small dust particles or light scratches, larger imperfections can prevent the player from tracking the disc.

To ensure long life for your discs, follow these guidelines:

1. **Removing.** To remove a disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.
2. **Handling.** Grasp the disc by its edges only. Or, put a finger in the center hole and use your thumb to hold the disc steady.
3. **Storing.** Return compact discs to their cases with the label side up after each use. This will prevent damage which can occur from stacking them, sliding them on rough surfaces or leaving them out in direct sunlight.
4. **Cleaning.** Fingerprints and dust should be carefully wiped off the disc's signal surface (shiny side). Wipe the surface of the disc with a soft cloth, either dry or moistened with water. Do not use conventional record cleaning products, antistatic sprays or alcohol. These chemicals will damage the plastic surface of the disc. Wipe using straight motions from center to outside, as if you were tracing the spokes of a wheel.

Getting Started

No special tools are required to make connections to the SD/A-360. Simply use the supplied interconnect cable between the ANALOG OUT jacks on the back of the SD/A-360 and the CD input jacks on your preamplifier or receiver. See *Connection Tips* next for information on connecting the OPTICAL OUT jack.

If installing in a cabinet, provide sufficient cable slack to allow turning the CD player around 90 degrees to make all connections. If this is not possible, a small lamp and hand mirror may be helpful in making the connections.

Connection Tips

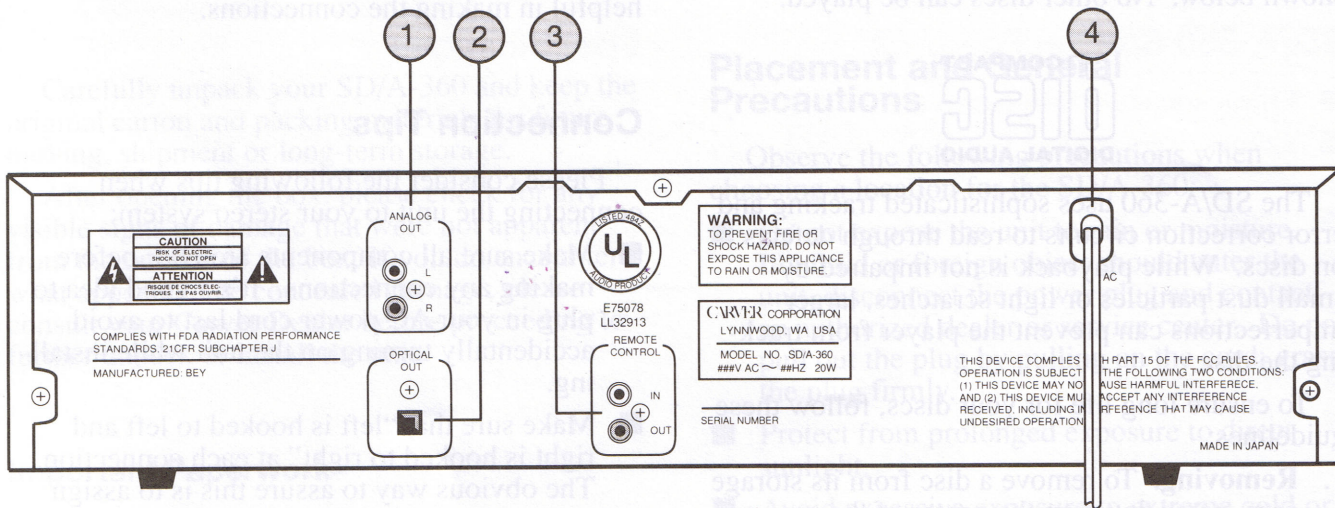
Please consider the following tips when connecting the unit to your stereo system:

- Make sure all components are OFF before making any connections. It's a good idea to plug in your AC power cord last to avoid accidentally turning on the unit while installing.
- Make sure that "left is hooked to left and right is hooked to right" at each connection. The obvious way to assure this is to assign one hook-up cord plug color to left and the other to right. Generally RED is used to signify RIGHT. White, grey or black then represents left.
- Whenever possible, keep power cords away from signal cables (inputs from CD player, tape deck, etc.) to prevent hum. While hum is less of a problem today than it was in the past, noise can still find its way into your system if a component's power cord becomes too intimately involved with a hook-up cable. Carver components' power cords and convenience outlets are all on the right side of the chassis (when viewed from the back). This allows you to bundle all the component power cords and keep them separated from signal connections.
- Type of hook-up cables. Also called interconnects, patch cords or RCA cables. There are lots of different grades of hook-up cables. You can pay more than \$50 per foot for some of them! Whether or not you hear an improvement in sound quality with "audiophile" interconnects is up to your own ears. However, really CHEAP or old connection cables can sometimes DIS-connect themselves inside, causing hum or a loss of sound in one or both channels. Before you send a component in for service, swap hook-up cables to see if they're the culprit.

Warning: Never plug the SD/A-360 into a receiver or preamplifier's PHONO inputs, either moving coil (MC) or moving magnet (MM).

SD/A-360

Rear Panel Connections



1. ANALOG OUT jacks

Connect to the CD input jacks on your preamplifier or receiver.

2. OPTICAL OUT jack

Connect to the Optical Digital Input jack on your outboard D/A converter or preamplifier/receiver with its own internal D/A converter. This connector is a TOSLINK optical jack. See your Carver Dealer to purchase a TOSLINK optical cable.

Leave the protective plug in the jack when not in use. When using the TOSLINK connector, push in the plug until you hear a mechanical click to insure a reliable connection.

3. REMOTE CONTROL INput/OUTput jacks

Connect the IN jack to the Remote Out jack of another component with RC-5 remote connections, and connect the OUT jack to the Remote In jack of another component. (For more details on RC-5 remote control, see *RC-5 Remote Control Bus* on page 19.)

4. AC LINECORD

Connect to an outlet properly configured for the line voltage specified for your model. If using an extension cord, we recommend 16 gauge or heavier.

Connections – Conventional Hook-up

Follow these steps to connect your SD/A-360 to the rest of your system.

1. Make sure that the SD/A-360 and the rest of your stereo system are turned off or disconnected.
2. Locate the ANALOG OUT jacks on the SD/A-360's rear panel.
3. Connect one end of a RED connection cable (patch cord) plug to the SD/A-360's RIGHT (R) output jack.
4. Connect the corresponding WHITE connection cable plug to the SD/A-360's LEFT (L) output jack.
5. You're now ready to attach the other end of the connection cable to something. Depending on what kind of receiver or preamplifier you have, there may be several options.

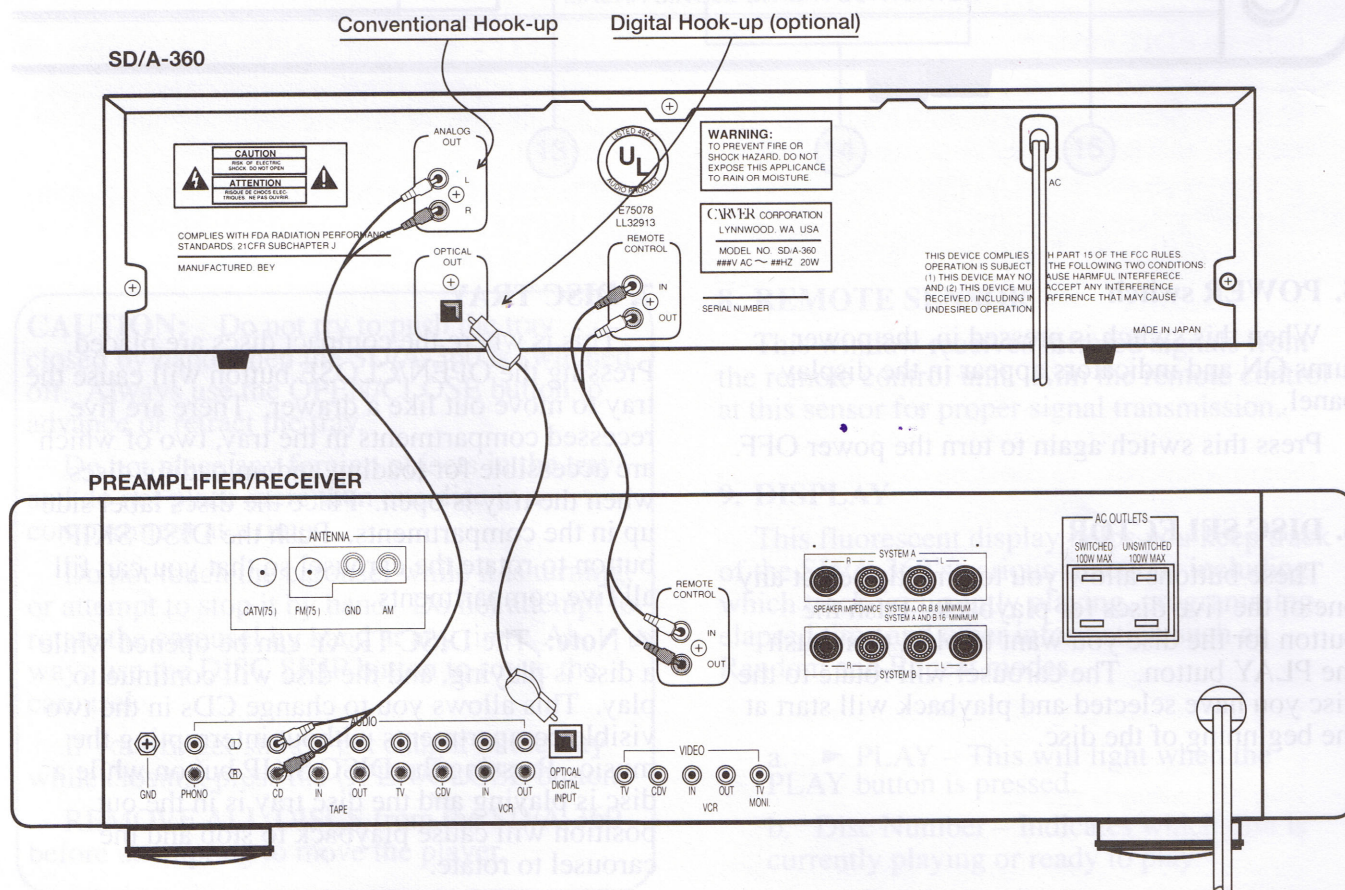
- A) Use the CD INPUTS that are provided on newer preamplifiers and receivers.
 - B) Hook the SD/A-360 to the preamp/receiver's AUX inputs.
 - C) If options A or B are unavailable, use one of the preamp/receiver's TAPE INPUTS.
6. When you have made your choice, plug the free end of the RED connection cable into the preamp/receiver's RIGHT INPUT jack and plug the free end of the WHITE connection cable into the LEFT INPUT jack.
 7. Connect the SD/A-360's power cord to an AC outlet. This can be a wall socket, an extension cord or a switched/unswitched outlet on the back of a preamplifier or receiver.

Connections – Digital Hook-up

If you have a separate D/A converter or a preamplifier or receiver which has its own Optical Digital Input Jack and internal D/A converter, you can bypass the SD/A-360's own digital-to-analog and analog output circuitry entirely.

1. Make sure that the SD/A-360 and the rest of your stereo system are turned off or disconnected.
2. Locate the single OPTICAL OUT jack on the SD/A-360's rear panel.
3. Connect one end of an optical connection cable plug to the OPTICAL OUT jack on the SD/A-360.
4. Connect the other end to the Optical Digital Input jack on your outboard D/A converter or preamplifier with built-in D/A converter.
5. Connect the SD/A-360's power cord to an AC outlet. This can be a wall socket, an extension cord or a switched/unswitched outlet on the back of a receiver or preamplifier.

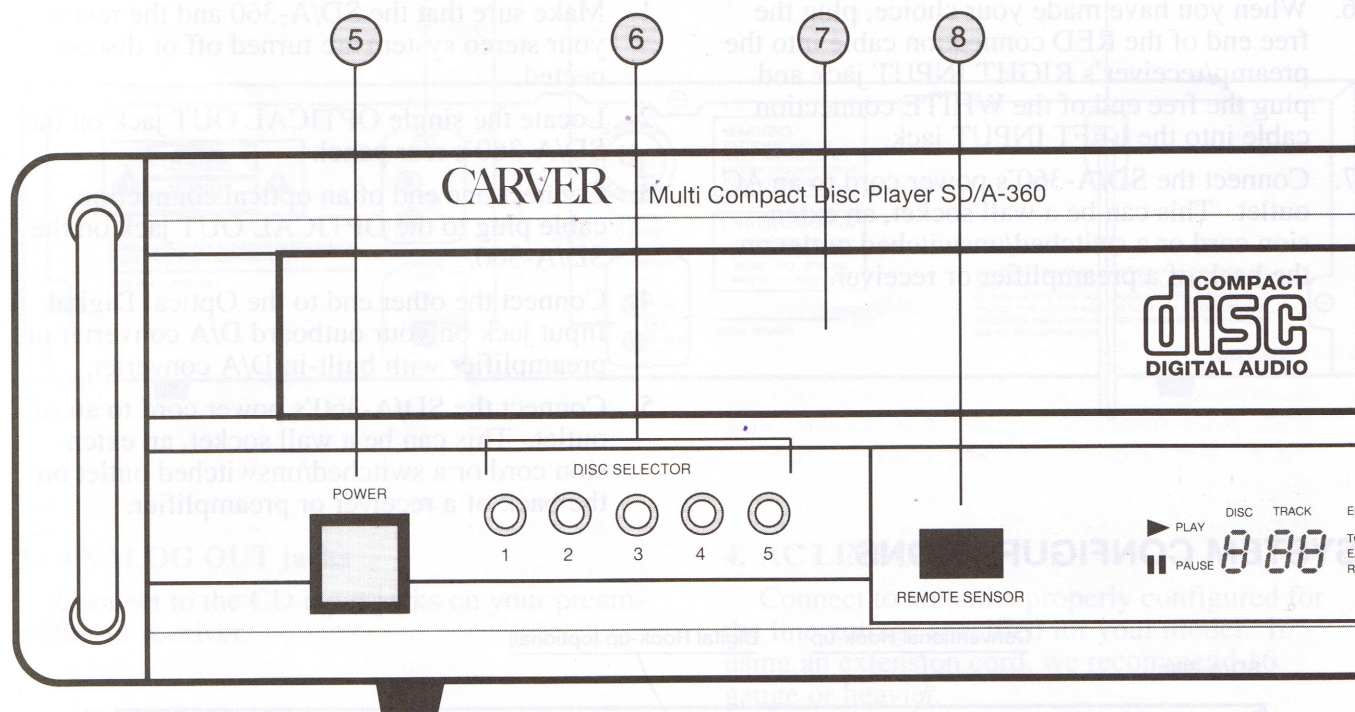
SYSTEM CONFIGURATIONS



SD/A-360

6. Operation

Front Panel Features



5. POWER switch

When this switch is pressed in, the power turns ON and indicators appear in the display panel.

Press this switch again to turn the power OFF.

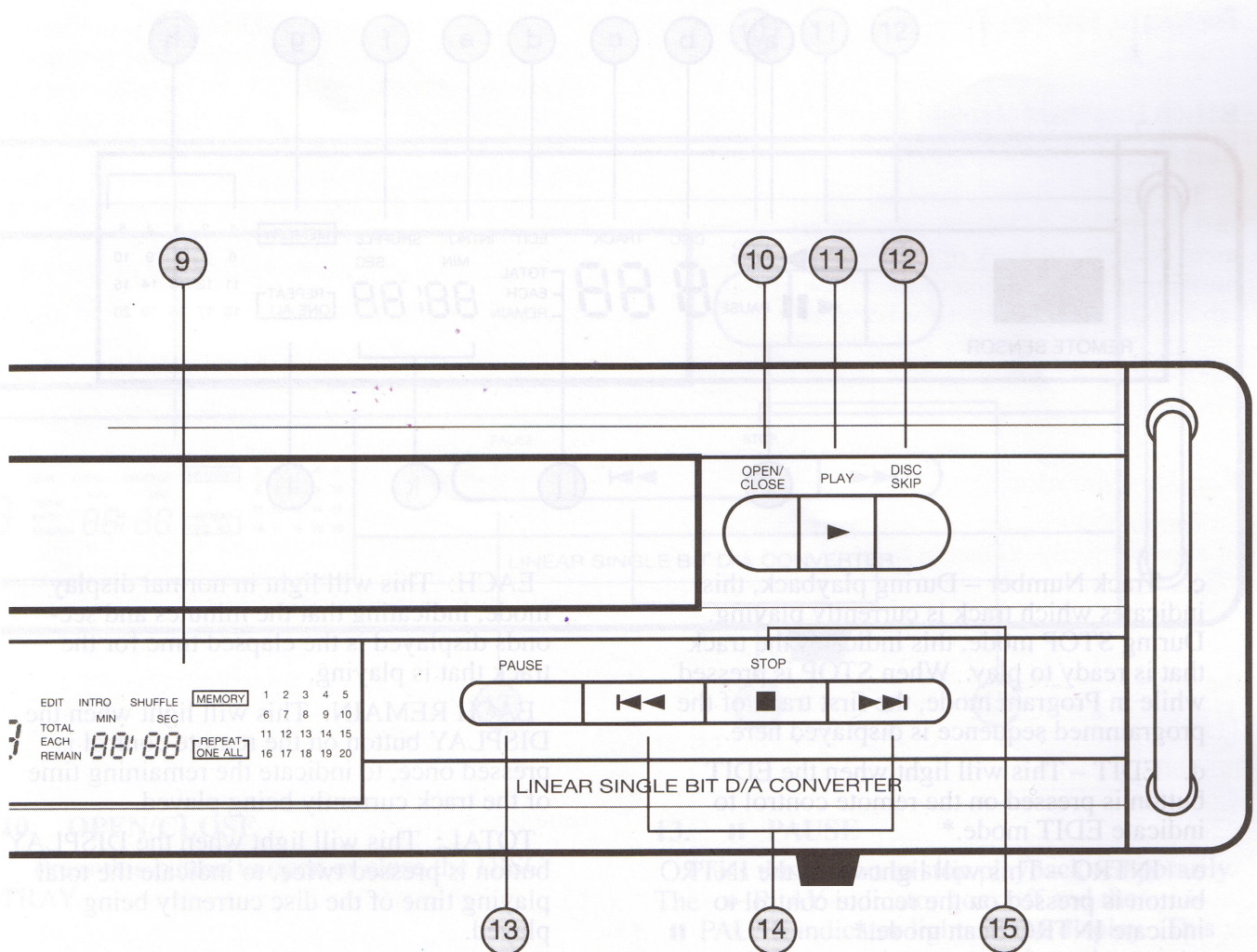
6. DISC SELECTOR

These buttons allow you to directly select any one of the five discs for playback. Push the button for the disc you want to play, then push the PLAY button. The carousel will rotate to the disc you have selected and playback will start at the beginning of the disc.

7. DISC TRAY

This is where the compact discs are placed. Pressing the OPEN/CLOSE button will cause the tray to move out like a drawer. There are five recessed compartments in the tray, two of which are accessible for loading and unloading discs when the tray is open. Place the discs label side up in the compartments. Push the DISC SKIP button to rotate the carousel so that you can fill all five compartments.

Note: The DISC TRAY can be opened while a disc is playing, and the disc will continue to play. This allows you to change CDs in the two visible compartments without interrupting the music. Pressing the DISC SKIP button while a disc is playing and the disc tray is in the out position will cause playback to stop and the carousel to rotate.



CAUTION: Do not try to push the tray closed by hand when the SD/A-360 is switched off. Always use the OPEN/CLOSE button to advance or retract the tray.

Do not place any foreign objects in the tray, and do not place more than one disc in a compartment at a time.

Do not touch the carousel while it is turning, or attempt to stop it by hand. Do not attempt to rotate the carousel by hand at any time. Always use the DISC SKIP button to rotate the carousel.

If your finger should get caught in the tray while closing, press the OPEN/CLOSE button.

REMOVE ALL DISCS from the SD/A-360 before attempting to move the player.

8. REMOTE SENSOR

This window receives infrared signals from the remote control unit. Aim the remote control at this sensor for proper signal transmission.

9. DISPLAY

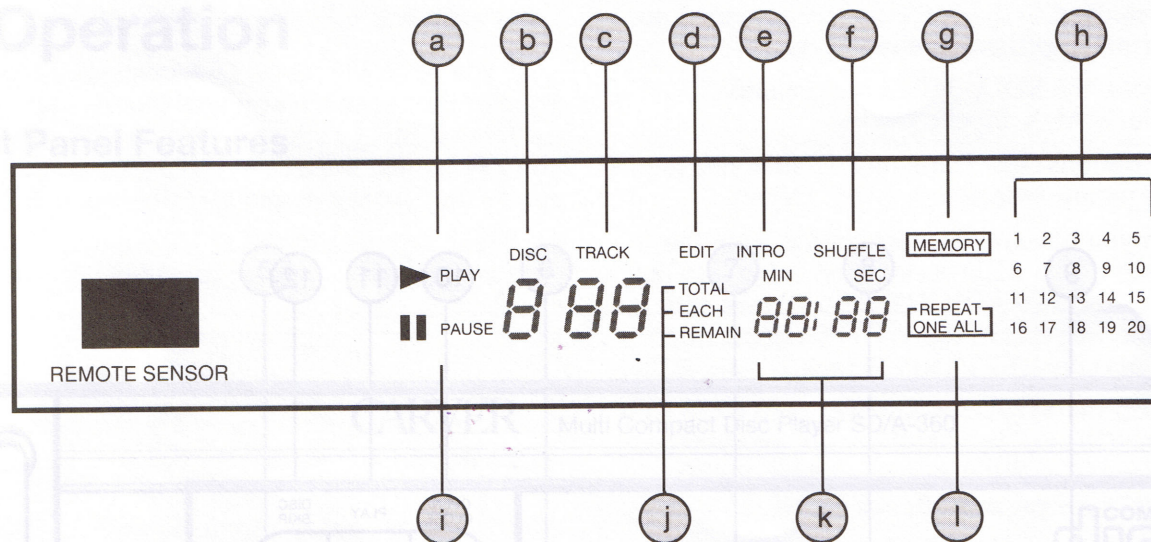
This fluorescent display helps you keep track of the SD/A-360's various functions including which track is currently playing, programming, elapsed time and other information such as Random and Repeat modes.

- ▶ PLAY** – This will light when the PLAY button is pressed.
- Disc Number** – Indicates which disc is currently playing or ready to play.

SD/A-360

6. Operation

Front Panel Features



c. Track Number – During playback, this indicates which track is currently playing. During STOP mode, this indicates the track that is ready to play. When STOP is pressed while in Program mode, the first track of the programmed sequence is displayed here.

d. EDIT – This will light when the EDIT button is pressed on the remote control to indicate EDIT mode.*

e. INTRO – This will light when the INTRO button is pressed on the remote control to indicate INTRO Scan mode.*

f. SHUFFLE – This will light when the SHUFFLE button is pressed on the remote control to indicate SHUFFLE Play mode.*

g. MEMORY – This will light when the MEMORY button is pressed on the remote control, to indicate Program Play mode.*

* See *Remote Control* on page 14 for an explanation of EDIT, INTRO, SHUFFLE and Program Play.

h. Track Number Matrix – This will light when a disc is played, illuminating the number of tracks on the disc, up to 20 tracks. The number of the track currently playing will blink. After the track is finished playing the number for that track will disappear to provide a visual display of tracks remaining.

i. PAUSE – This will light when the PAUSE button is pressed.

j. TOTAL, EACH, REMAIN – These will light in various combinations, depending on the display mode being used.

EACH: This will light in normal display mode, indicating that the minutes and seconds displayed is the elapsed time for the track that is playing.

EACH REMAIN: This will light when the DISPLAY button on the remote control is pressed once, to indicate the remaining time of the track currently being played.

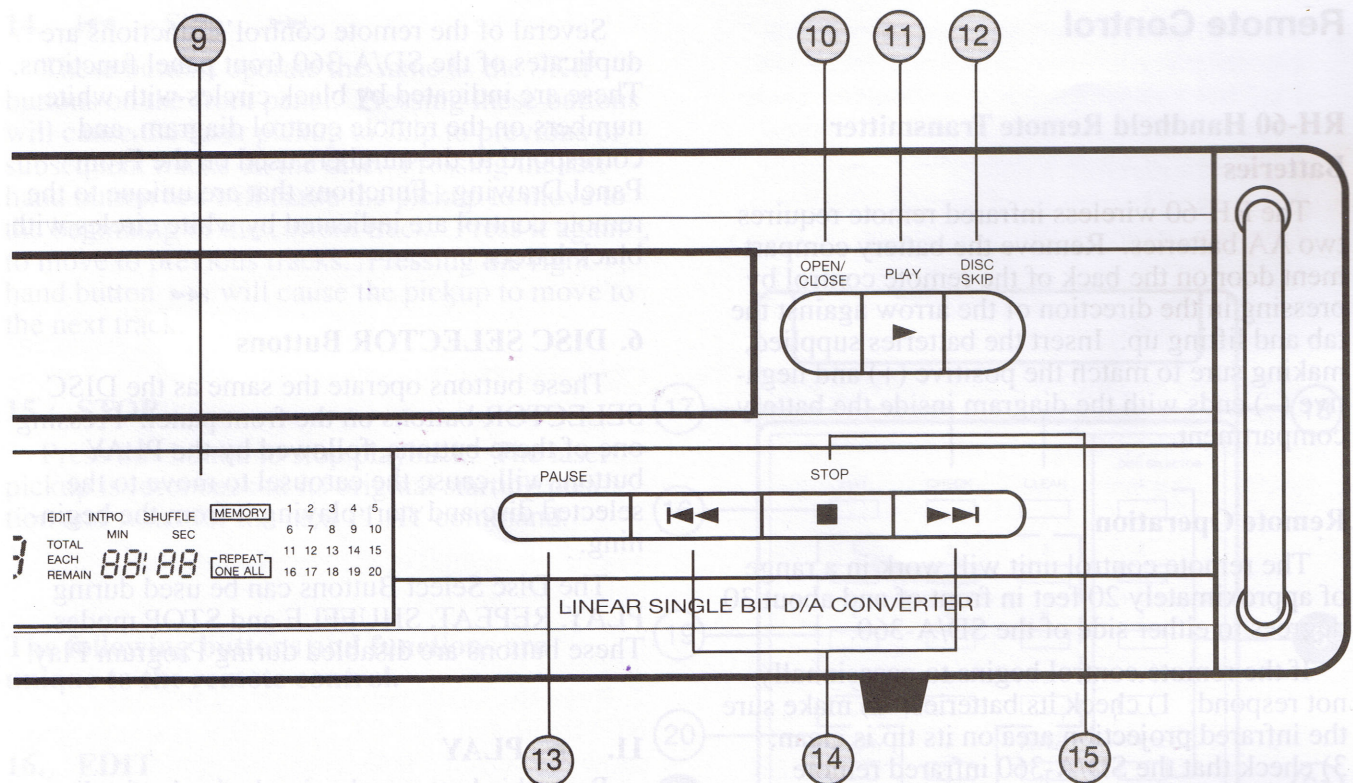
TOTAL: This will light when the DISPLAY button is pressed twice, to indicate the total playing time of the disc currently being played.

TOTAL REMAIN: This will light when the DISPLAY button is pressed three times to indicate the total remaining time of the disc currently being played.

See *Remote Control* on page 14 for more information about Display modes.

k. MINutes and SECONDS – During playback, this indicates the number of minutes and seconds elapsed or remaining. During STOP mode, 0:00 is displayed.

l. REPEAT – REPEAT ALL will light when the REPEAT button is pressed on the remote control, indicating that all the discs in the carousel (or all programmed tracks) will repeat in order. REPEAT ONE will light when the REPEAT button is pressed twice, indicating that the currently playing track will repeat.



10. OPEN/CLOSE

Press this button to open or close the DISC TRAY.

11. ► PLAY

Press this button to begin playback of a disc. The ► PLAY indicator lights up in the display. The disc number, track number and the elapsed time for the current track are also displayed.

Play will continue sequentially through all the discs that are loaded. The ► PLAY indicator goes off at the end of disc 5 (or the last available disc), or when the STOP or PAUSE buttons are pushed.

12. DISC SKIP

Each time this button is pressed, the carousel in the tray will rotate clockwise one position. When the tray is open, this can be used to load or replace discs. When the tray is closed, it can be used to select the next disc for play.

13. || PAUSE

Press this button to stop playback temporarily. The ► PLAY indicator goes off and the || PAUSE indicator lights in the display. This causes the laser pickup to remain at the point where the PAUSE command was executed, ready to resume playback at that point. To resume playback, press the PAUSE button again or press the PLAY button.

14. ◀◀ Skip ▶▶

Pressing these buttons will cause the laser pickup to skip to previous or subsequent tracks on the disc. Press and release the left hand button to cause the pickup to move to the beginning of the current track. Press and hold it to move to previous tracks.

Press and release the right hand button to cause the pickup to move to the next track. Press and hold it to move to subsequent tracks.

15. STOP

Press this button to stop playback. The laser pickup is reset back to its original starting position and waits for the next PLAY command.

SD/A-360

Remote Control

RH-60 Handheld Remote Transmitter

Batteries

The RH-60 wireless infrared remote requires two AA batteries. Remove the battery compartment door on the back of the remote control by pressing in the direction of the arrow against the tab and lifting up. Insert the batteries supplied, making sure to match the positive (+) and negative (-) ends with the diagram inside the battery compartment.

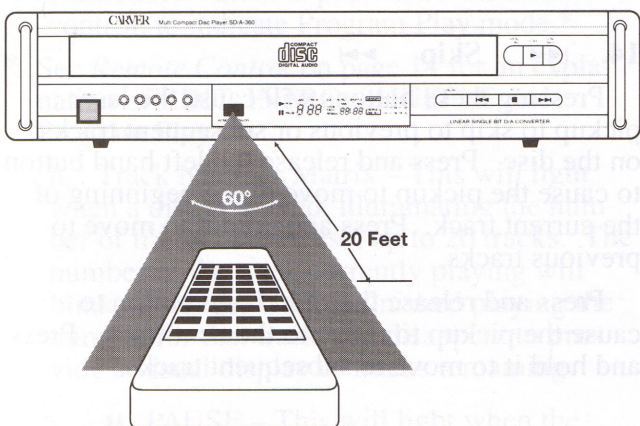
Remote Operation

The remote control unit will work in a range of approximately 20 feet in front of and about 30 degrees to either side of the SD/A-360.

If the remote control begins to occasionally not respond, 1) check its batteries; 2) make sure the infrared projection area on its tip is clean; 3) check that the SD/A-360 infrared remote sensor window is not dirty or blocked from direct line-of-sight with the remote.

Note: Intense sunlight contains some infrared light which can interfere with the transmission of the infrared signals from the remote control. Avoid placing the SD/A-360 in a position where it will be exposed to bright or direct sunlight.

If you choose not to use the SD/A-360's remote, be sure to remove the batteries to prevent corrosion damage from leaking batteries.



Several of the remote control's functions are duplicates of the SD/A-360 front panel functions. These are indicated by black circles with white numbers on the remote control diagram, and correspond to the numbers used on the Front Panel Drawing. Functions that are unique to the remote control are indicated by white circles with black letters.

6. DISC SELECTOR Buttons

These buttons operate the same as the DISC SELECTOR buttons on the front panel. Pressing one of these buttons, followed by the PLAY button, will cause the carousel to move to the selected disc and start playing it from the beginning.

The Disc Select Buttons can be used during PLAY, REPEAT, SHUFFLE and STOP modes. These buttons are disabled during Program Play.

11. ► PLAY

Press this button to begin playback of a disc. The ► PLAY indicator lights up in the display. The disc number, track number and the elapsed time for the current track are also displayed.

12. DISC SKIP

This button operates the same as the DISC SKIP button on the front panel, causing the carousel to move clockwise to the next loaded disc position.

13. || PAUSE

Press this button to stop playback temporarily. The ► PLAY indicator goes off and the || PAUSE indicator lights in the display. This causes the laser pickup to remain at the point where the PAUSE command was executed, ready to resume playback at that point. To resume playback, press the PAUSE button again or press the PLAY button.

14. ⏮ Skip ⏭

These buttons operate the same as the SKIP buttons on the front panel. Pressing these buttons will cause the laser pickup to skip to previous or subsequent tracks on the disc. Pressing the left hand button ⏮ will cause the pickup to move to the beginning of the current track. Press it again to move to previous tracks. Pressing the right hand button ⏭ will cause the pickup to move to the next track.

15. STOP

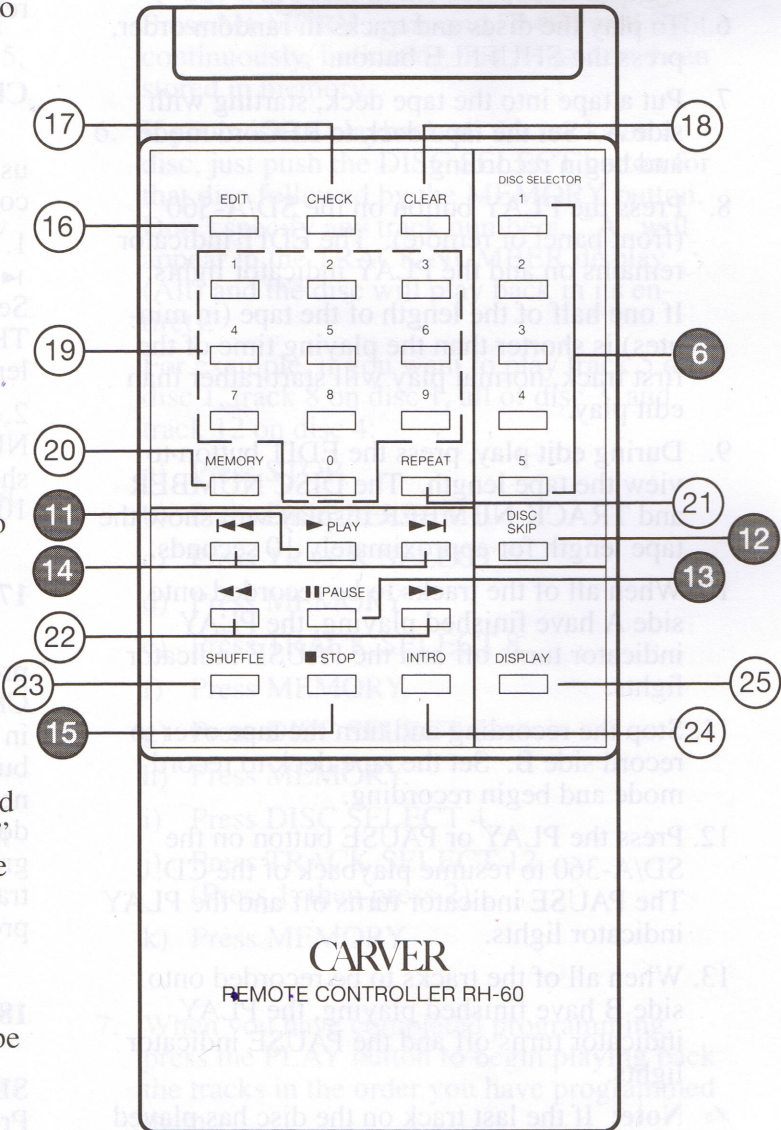
Press this button to stop playback. The laser pickup is reset back to its original starting position and waits for the next PLAY command.

The following buttons and functions are unique to the remote control.

16. EDIT

The EDIT mode allows you to record CD's to tape that won't fit on one side of the tape. The SD/A-360 automatically selects and plays the correct number of tracks to fill one side of the tape, and then pauses while you turn the tape over to resume recording on the other side.

1. Press the STOP button.
2. Press the EDIT button once. The EDIT indicator lights, and the DISC NUMBER and TRACK NUMBER display will show "C90" (the length of the tape in minutes that will be used for recording) for approximately 10 seconds.
If a C-60 or C-46 cassette will be used for recording, press the EDIT button one or two more times, to select the "C60" or "C46" tape length.
⚠ **Note:** Other tape lengths can be selected. See *Changing The Tape Length* on page 16.
To end edit play, press the EDIT button a fourth time or press the STOP button. The EDIT indicator turns off.
3. Press the DISC SELECTOR button which corresponds to the number of the disc to be played.



SD/A-360 Remote Control

SD/A-360

4. Press the ◀◀ or ▶▶ button or the remote control's Track Select button(s) to start Edit Play from a specific track. If you don't select a specific track, playback will start at the beginning of the selected disc.
5. If you wish to play programmed selections, enter a program as described in 20. MEMORY on the next page.
6. To play the discs and tracks in random order, press the SHUFFLE button.
7. Put a tape into the tape deck, starting with side A. Set the tape deck to RECORe mode and begin recording.
8. Press the PLAY button on the SD/A-360 (front panel or remote). The EDIT indicator remains on and the PLAY indicator lights. If one half of the length of the tape (in minutes) is shorter than the playing time of the first track, normal play will start rather than edit play.
9. During edit play, press the EDIT button to view the tape length. The DISC NUMBER and TRACK NUMBER display will show the tape length for approximately 10 seconds.
10. When all of the tracks to be recorded onto side A have finished playing, the PLAY indicator turns off and the PAUSE indicator lights.
11. Stop the recording and turn the tape over to record side B. Set the tape deck to record mode and begin recording.
12. Press the PLAY or PAUSE button on the SD/A-360 to resume playback of the CD. The PAUSE indicator turns off and the PLAY indicator lights.
13. When all of the tracks to be recorded onto side B have finished playing, the PLAY indicator turns off and the PAUSE indicator lights.
- ⚠ **Note:** If the last track on the disc has played before the end of the tape, the SD/A-360 will begin playback of the next available disc.
14. To record another tape, repeat steps 3-13.
15. Press the STOP button to end edit play. The PLAY and EDIT indicators turn off. The TIME display will show 0:00 and the TRACK NUMBER will show 1.

⚠ **Note:** The INTRO Scan feature cannot be operated during edit play.

The duration of blank space recorded between disc selections during programmed edit play can be reduced. When the current disc and track have finished playing, set the tape deck to the pause mode as the carousel rotates to the next disc. When the rotation of the carousel stops, release the pause mode and continue recording.

Changing The Tape Length

Tape lengths of C-1 to C-99 can be selected using the ◀◀ or ▶▶ buttons or the remote control's Track Select buttons.

1. After pressing the EDIT button, press the ◀◀ or ▶▶ button or the remote control's Track Select button(s) to select the tape length. The TRACK NUMBER display will show the tape length.

2. Press the EDIT button again. The DISC NUMBER and TRACK NUMBER displays will show the selected tape length for approximately 10 seconds.

17. CHECK

This button is used to check the tracks in a programmed sequence. In STOP mode, press the CHECK button once to see the first track stored in the program memory. Each time the CHECK button is pressed the display will increment to the next track stored in the program memory (or hold down the button to scroll through the programmed sequence). After the last programmed track is displayed, it will start over with the first programmed track.

18. CLEAR

This button is used to clear a program from the SD/A-360 memory. If CLEAR is pressed during Program Play, the programmed play will end and normal play will continue from that point.

19. Track Select Buttons

These buttons allow you to enter directly a specific track number for playback. Pressing one of these buttons will cause that number to appear in the TRACK NUMBER display. Press PLAY and the SD/A-360 will begin playback at the beginning of that track.

For track numbers above 9, push a 1-9 button for the tens column followed by a 0-9 button for the ones column. For example, to select track 15, press the 1 button followed by the 5 button. To select track number 20, push the 2 button followed by the 0 button.

The Track Select Buttons can be used during PLAY, REPEAT ALL or STOP modes. If a new track is selected with the Track Select Buttons during REPEAT ONE mode, the new track will be repeated. If they are used during SHUFFLE play, Shuffle Play mode will be canceled and playback will continue from the selected track. These buttons are disabled during Program Play.

🔊 **Note:** If a track number is selected that exceeds the number of tracks on the disc, the last track on the disc will be played.

20. MEMORY

This button is used to program sequences of tracks into the SD/A-360 memory. Up to 32 tracks from any of the five discs can be programmed for playback.

To program tracks:

1. Press the STOP button. The SD/A-360 must be in STOP mode to enter Program mode.
2. Press the disc number in the DISC SELECT buttons to choose the disc. The number you select will appear in the DISC display.
3. Press the track number in the TRACK SELECT buttons to choose the specific track you want to program. The number you select will appear in the TRACK display.
4. Press the MEMORY button. **MEMORY** will appear in the display and "P-01" will appear in the MIN/SEC display. The SD/A-360 has now stored that disc and track number in its memory.

5. If the next track you wish to program is on the same disc as the previous track, simply select the new track number. It is not necessary to press the DISC SELECT button again.

If the next track is on a different disc, press the DISC SELECT button for the new disc and then select the track number.

"P-02" will blink in the MIN/SEC display. Press MEMORY again and "P-02" will light continuously, indicating that it has now been stored in memory.

6. If you wish to playback all the tracks on a disc, just push the DISC SELECT button for that disc followed by the MEMORY button. Don't specify any track numbers. "A" will appear in the TRACK NUMBER display (All) and the disc will play back in its entirety.

For example, if you want to play track 5 on disc 1, track 8 on disc 1, all of disc 3, and track 12 on disc 4:

- a) Press STOP.
- b) Press DISC SELECT 1.
- c) Press TRACK SELECT 5.
- d) Press MEMORY.
- e) Press TRACK SELECT 8.
- f) Press MEMORY.
- g) Press DISC SELECT 3.
- h) Press MEMORY.
- i) Press DISC SELECT 4.
- j) Press TRACK SELECT 12 (Press 1, then press 2).
- k) Press MEMORY.

7. When you have completed programming, press the PLAY button to begin playing back the tracks in the order you have programmed them.

🔊 **Note:** You can add more tracks to the Program at any time by repeating steps 1 - 4.

During programmed play, you can use the SKIP or SCAN buttons. The SD/A-360 will skip or scan through the programmed tracks in the sequence you have programmed them (you can't scan beyond the beginning or ending of the track being played). The DISC SKIP button is disabled during programmed play.

SD/A-360

7. In Case of Difficulty

If you're having trouble or suspect a problem with the SD/A-360, try some simple troubleshooting before contacting your Carver dealer or an Authorized Carver Service Center. Most likely, the problem lies elsewhere in the system or with a button or control inadvertently left in the wrong position.

No Sound, No Power.

1. SD/A-360 power is off.
2. SD/A-360 is plugged into a switched convenience outlet. Verify that component is turned on and the outlet is live.
3. Linecord is disconnected.
4. Poor fit between the plug and wall receptacle.
5. Power off at wall receptacle (check with tester or lamp).

Power On, Playback will not begin.

1. The disc is upside down. Reload the disc with the label side up.
2. The disc is dirty or damaged.
3. If the SD/A-360 has been brought into a warm room from a cold area, condensation can occur on the laser pickup. Allow the player to warm up to room temperature.

No sound from one or both channels.

1. Loose or defective hook-up cables. Check the output cables for proper connection. If necessary, substitute a known good set to find a bad one.
2. Preamplifier or receiver not set correctly.
 - Is the correct source selected?
 - Are the volume and balance controls set right?
 - Is the muting function activated?
 - Is the tape monitor button pushed in?
 - Is there a Speaker A/B Select switch? Are the correct pair of speaker outputs selected?
 - Is the power amplifier turned on?

3. Incorrect connection. Are BOTH of the connectors from the SD/A-360 connected to the correct inputs on the preamplifier or receiver?

Playback is mixed with hum.

1. Check or replace the connecting cables.
2. Make sure that each cable plug is securely pushed into its socket.
3. Signal cables may have been routed too closely to AC cables, power transformers, motors or TV sets.
4. Try relocating the SD/A-360, allowing more space between it and your receiver, integrated amp or power amplifier.
5. Listen to other preamplifier sources. If the hum persists, it's not the CD player's fault.

Sound skips or stutters.

1. The SD/A-360 is receiving excess vibrations or physical shock. Read the recommendations on page 6 about correct placement.
2. Bad disc. Check the disc for dirt or scratches.

A disc is in the carousel, but it is skipped during play.

1. Bad disc. The compact disc is not providing lead-in information. Check the disc for damage or try another disc that you know works. Replace the disc if necessary.
2. Disc is inserted label side down. Be sure the label side is up.

Remote Control Won't Work

1. Batteries are dead or missing.
2. Remote is too far from or at too much of an angle from the remote sensor window on the SD/A-360.
3. Remote transmitter or the remote sensor window on the SD/A-360 is dirty.

8. Care and Service Assistance

Care

You'll want to wipe off the SD/A-360's front panel and chassis from time-to-time with a soft, dry cloth. If you have something stubborn to remove, use a mild dish soap or detergent sparingly applied to a soft cloth. Don't use alcohol, ammonia, or other strong solvents.

If you should have questions or comments, please write to the Factory address given below. Please include the model and serial number of your Carver product, your complete address and a daytime phone number.

Service Assistance

We suggest that you read the LIMITED WARRANTY completely to fully understand your warranty/service coverage. Please promptly complete and return the WARRANTY REGISTRATION CARD. Also be sure to save the sales receipt in a safe place. It will be necessary for warranty service.

If your CARVER product should require service, we suggest you contact the Dealer from whom you purchased your unit. Should the Dealer be unable to take care of your needs, you may contact the CARVER Technical Service Department by phoning (206) 775-6245 or by writing to us at the Factory address shown at the right. We will then direct you to the nearest in our national network of Authorized Warranty Service Centers or give you detailed instructions on how to return the product to us for prompt action.

Factory Address

Carver Corporation Service Department
P.O. Box 1237
Lynnwood, WA 98046-1237
(206) 775-6245

Carver Corporation reserves the right to improve its products at any time. Therefore, specifications are subject to change without notice.

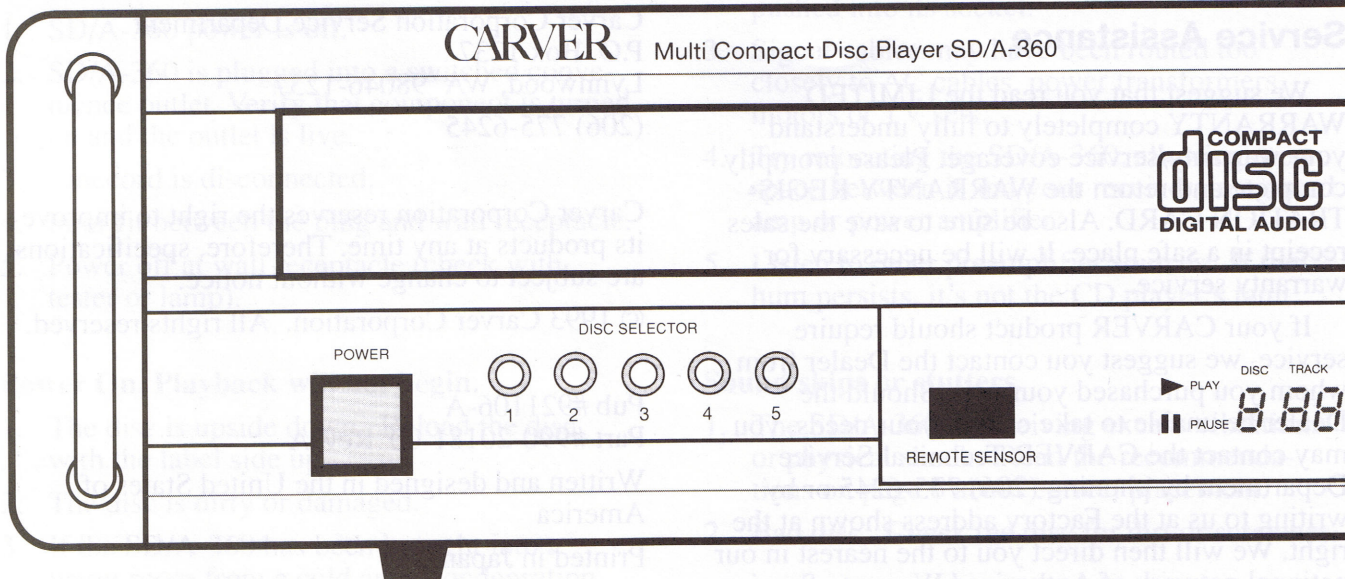
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Part #990-20181-00 Rev. A

Written and designed in the United States of America

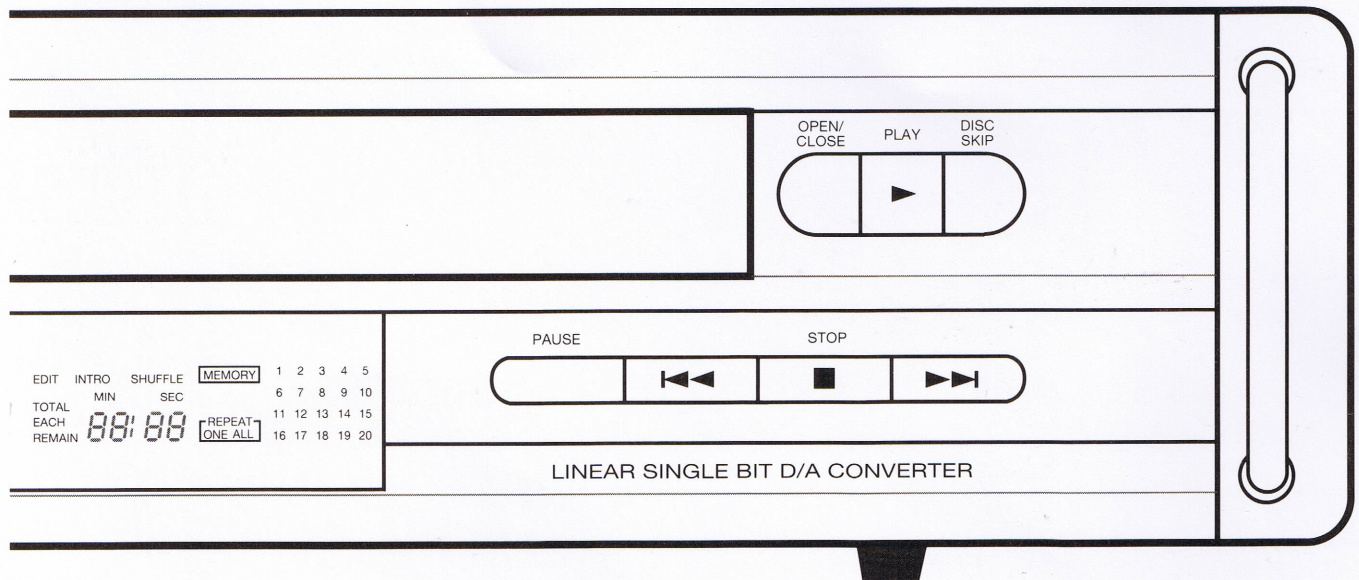
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SD/A-360



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Product

Warranty Period

Amplifiers, Pre-Amplifiers, Sonic Hologram Generator, Speaker Control Boxes	3 years
Receivers, Tuners, Integrated Amplifiers, Pre-amp/Tuners, Selector Boxes	2 years
Video and Compact Disc Players and Changers, Cassette Tape Decks, Remote Controls, In Wall Remote Sensors and Transmitters and Other Accessories	1 year

YOU MUST RETAIN AND PROVIDE YOUR SALES RECEIPT TO OBTAIN COVERAGE UNDER THIS LIMITED WARRANTY. The Warranty Period begins from the date of first consumer purchase from an Authorized Carver Dealer.

WHAT IS COVERED: THIS WARRANTY COVERS DEFECTS IN MATERIAL AND WORKMANSHIP ONLY. This Limited Warranty DOES NOT extend to: (1) Damage caused by shipment; (2) damage caused by accident, misuse, abuse, failure to perform owner maintenance, or operation contrary to the instructions in the Carver Corporation owner's manual; (3) units on which the serial number has been defaced, modified or removed; (4) damage resulting from modification or attempted repair by any person other than authorized by Carver Corporation; and (5) use for industrial, commercial, and/or professional applications.

WHAT WE WILL PAY FOR: Carver will pay all labor and material expenses for items covered under this Limited Warranty. See the next section concerning shipping charges.

WHAT YOU MUST DO TO OBTAIN WARRANTY SERVICE: In the event your Carver product requires service, write to Carver Corporation (Attention: Customer Service Department), P. O. Box 1237, Lynnwood, Washington 98046-1237 or call the Customer Service Department directly at (206) 775-6245. You will be directed to an Authorized Carver Service Station or receive instructions to ship the unit to the factory. Please save the original shipping carton and packing materials in case shipping is required. Please DO NOT ship Parcel Post. Include a complete description of the problem, the associated components and connections, and a copy of the purchase receipt. Initial shipping costs are not paid by Carver Corporation; return shipping costs will be pre-paid if repairs were covered by the scope of this warranty.

Shipping Address
CARVER CORPORATION
20121 - 48th Avenue West
Lynnwood, WA 98036

LIMITATIONS OF IMPLIED WARRANTIES: ALL IMPLIED WARRANTIES FOR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE WARRANTY PERIOD FOR YOUR PRODUCT, UNLESS OTHERWISE PROVIDED BY STATE LAW.

EXCLUSION OF CERTAIN DAMAGES: IN NO EVENT SHALL CARVER CORPORATION BE LIABLE FOR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES WHICH MAY RESULT FROM THE FAILURE OF THIS PRODUCT. IF YOUR CARVER PRODUCT PROVES DEFECTIVE IN MATERIAL OR WORKMANSHIP, THE LIABILITY OF CARVER CORPORATION SHALL BE LIMITED TO THE REPAIR OR REPLACEMENT, AT THE OPTION OF CARVER CORPORATION, OF ANY DEFECTIVE PART.

STATE LAWS MAY DIFFER: SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

OTHER IMPORTANT PROVISIONS: Carver Corporation reserves the right to make changes in design and improvements to its products without the responsibility of installing such changes or improvements on products previously sold by Carver.

We suggest that you attach your purchase receipt to this Warranty and keep both documents in a safe place. Thank you for your choice of a Carver Corporation product.

NOTE: The preceding warranty is exclusive to the United States and its possessions and territories. Please see your Carver dealer or distributor for the correct warranty information in your area or locale.

April, 1993

990-00029-00 Rev. C