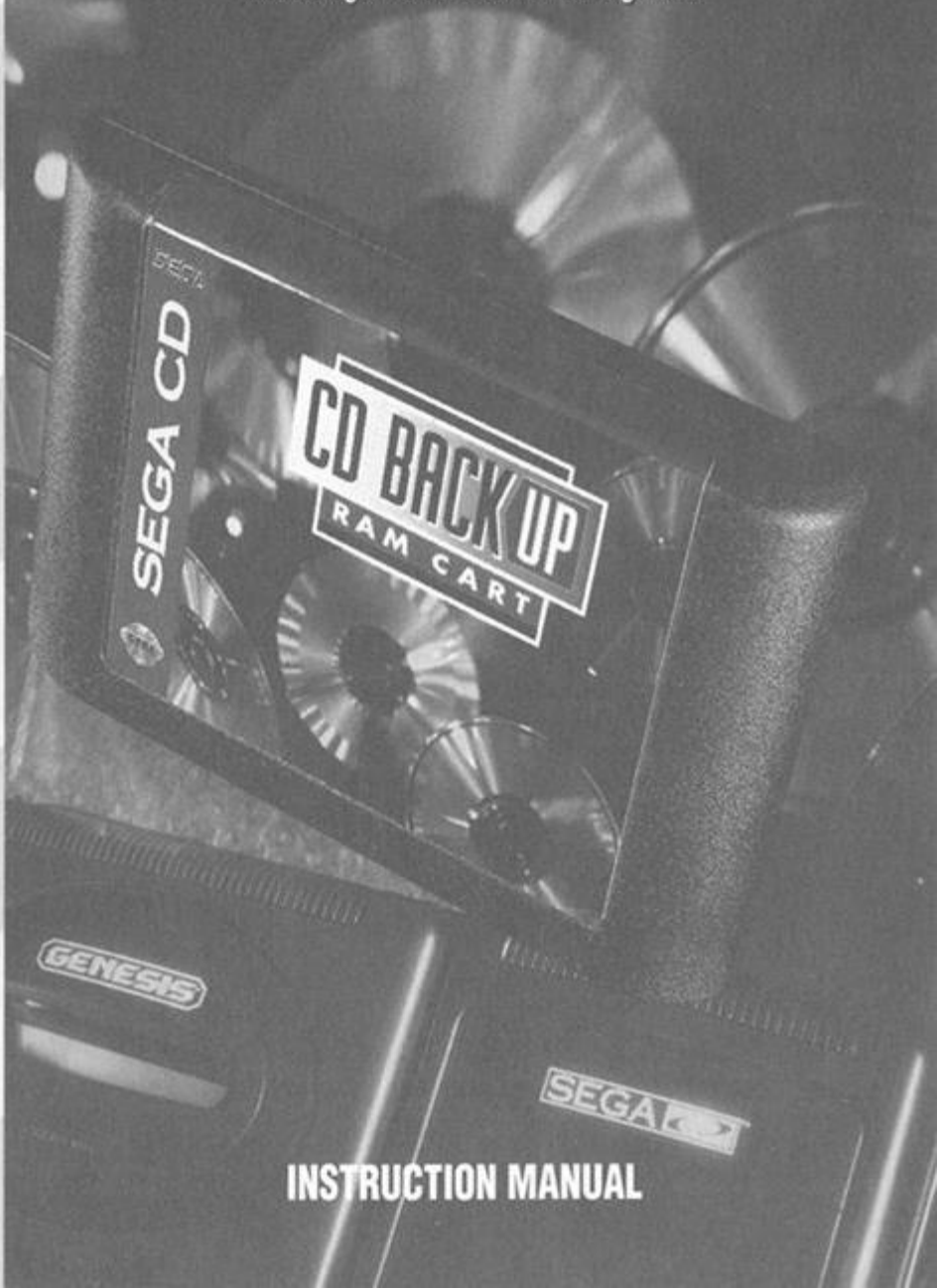# CD BACKUP

RAM CART

The CD Backup RAM Cart is not a game.
It is designed exclusively for use
with Sega™ Genesis™ and Sega CD™

SEGA CD™

INSTRUCTION MANUAL

Before you use this product, read this instruction manual for proper use.

This product is not a game.

Please be sure to format the Backup RAM cartridge before first-time use.

This product is an external backup RAM designed for exclusive use with the Sega CD system. It provides 16 times the backup RAM capacity (1Mbit) of the Sega CD internal memory.

To use: Insert in Genesis Cartridge slot and access the CD Backup RAM Cart through the **OPTION** or **MEMORY** Menu on the Sega Control Panel.

For Use When:
- the built-in back-up RAM is full
- you are playing a game that requires backup data which cannot be saved into the built-in backup RAM because the amount of data is too large

Content

About the Backup Function in the Sega CD

To backup means to save game data. In the Sega CD, RAM is used for backup.

There are two types of backup RAM for the Sega CD:
1. the built-in backup RAM, which is built into the Sega CD hardware

2. the CD Backup RAM Cart which is inserted into the Genesis cartridge slot to supply additional (external) RAM

Note: Not all CD games allow you to save! Please refer to each game's instruction manual.

Connecting the CD Backup RAM Cart

1. Make sure the Genesis, Sega CD and television are properly connected. Make sure each AC Adaptor for the Genesis and Sega CD is plugged in.

2. With the Genesis power switch in the **off** position, insert the CD Backup RAM Cart into the cartridge slot of the Genesis.

Note: Make sure power to the Genesis unit is off before inserting the CD Backup RAM Cart.

3. Turn the Genesis power switch **on** and hold and press the A, B or C button on the control pad until the Control Panel appears.

Getting Started - Formatting

Formatting (initializing) is required to prepare the CD Backup RAM Cart for use.

Be sure to Format the CD Backup RAM Cart when it is used for the first time. If you see a Format Screen that displays an amount of data in the CD Backup RAM Cart, you can use this cartridge as is.

Note: If you try to Format a CD Backup RAM Cart with data stored on it, any data previously saved will be erased!

1. Connect the CD Backup RAM Cart as described on page 2. Select **OPTION** or **MEMORY** in the Control Panel and press the A, B or C button. *(Some Sega CD's will display OPTION, others, including the Genesis CDX, will display MEMORY on the Control Panel.)*

2. If the cartridge shows the following message, **Please Format the Backup RAM Cartridge**, press the A, B or C button to proceed to the menu screen.

3. Select **Format the Backup RAM Cart** and press the A, B or C button to access the Format Screen.

4. Select **Yes** and press the A, B or C button to perform the initialization, then return to the Menu Screen. *(If No is selected, the screen will return to the Menu Screen without initializing the RAM Cart.)*

Erasing and Copying

Erasing allows you to delete data stored in backup RAM. Copying allows you to duplicate and save data to separate backup RAM.

Note: ERASE and COPY cannot be selected unless data has already been saved. Saved data cannot be copied over other identically named data with the Copy function.

To erase or copy data, follow the procedure described below:

1. Select **OPTION** or **MEMORY** in the Control Panel and press the A, B or C button. You will now see the Data Storage Information Screen.

2. Press the A, B or C button to access the Menu Screen. *(The functions of the CD Backup RAM Cart are listed in the menu screen as shown below.)*

    Menu Screen
    (1) Formats the built-in backup RAM
    (2) Formats the CD Backup RAM Cart
    (3) Erases data in the built-in backup RAM
    (4) Erases data in the Backup RAM Cart
    (5) Copies data in the built-in backup RAM
        to the CD Backup RAM Cart
    (6) Copies data in the CD Backup RAM Cart
        to the built-in backup RAM
    (7) Returns you to the Control Menu

3. Choose the desired Erase or Copy function by using the D-pad, then press the A, B or C button and proceed to the corresponding screen.

4. Saved data will be displayed. Select the data to be erased or copied and press the A, B or C button. The Erase or Copy Screen will appear.

5. Select **Yes** and press the A, B or C button to either erase or copy data. Then press any button to return to the Menu Screen.

6. Selecting **No** and pressing the A, B or C button will neither erase nor copy but will return to the menu screen.

Filed data can be easily viewed, just access the Copy Screen to see a list of all saved games. Use the D-pad to scroll up and down through the list of saved games.

Starting the Game

1. After you have connected the CD Backup RAM Cart, turned the power switch **on** and formatted the cart (for first time use only), use the Control Panel to open the disc tray and start the game by inserting a Sega CD and selecting **CD ROM**.

Note: For further details, please refer to the Sega CD instruction manual along with the game's instruction manual.

Saving a Game

1. Once inside the game, you will need to follow the individual game instructions for saving game data. Usually when you save a game, it will be saved to the Sega CD Internal memory. Some games allow saves to be made directly to the CD Backup RAM Cart.

2. Use the Copy and Erase functions to move saved game data between the internal memory and the CD Backup RAM Cart.

Accessing a Saved Game

1. To access games saved, go to the Options or Memory Menu, select **Copy from RAM to Internal RAM** and copy the desired data.

2. Start the CD game as you normally would and load the saved game according to the instructions found in the game instruction manual.

Removing the CD Backup RAM Cart

1. Turn the power switch on the Genesis to the **off** position.
2. Remove the cartridge.

Note: The cartridge should never be removed unless the Genesis power switch is off.

Troubleshooting

Problem	Solution
A message appears which says, **You have no Backup RAM Cart**, even when a cartridge is inserted. ▲	First, turn the power switch off and remove the cartridge, then re-connect the cart following the instructions on page 2. *(Note: If the same message appears on the screen, please contact our Customer Service Center for assistance by calling 1-800-SEGA-USA)*
One of the following messages appears: **You cannot initialize this cartridge** or **You cannot copy data.** ▲	The cartridge may be defective. Please contact our customer service department for assistance.
A message appears which says, **There is not enough free memory to copy item.** ▲	Erase data in the copy destination until you have enough space available to save the desired data. *(If you are trying to copy the file to the internal cartridge, you may want to save the copy to the external CD Backup RAM Cart instead)*

Important notes

Always make sure the Genesis Power switch is in the **off** position before inserting or removing the CD Backup RAM Cart. Inserting the cartridge while the power switch is on may damage the cartridge.

Do not touch the connector area or expose the cart to liquid.

Do not hit or step on the cartridge.

Do not disassemble the cartridge.

Avoid storing the cartridge in an area that is subject to extreme heat or cold. Also, avoid exposure to direct sunlight and high humidity.

Limited Warranty

Sega of America, Inc., warrants to the original consumer purchaser that the Sega CD Backup Ram Cart shall be free from defects in material and workmanship for a period of 90 days from the date of purchase. If a defect covered by this limited warranty occurs during this 90-day warranty period, Sega will repair or replace the defective cartridge or component part, at its option, free of charge. This limited warranty does not apply if the defects have been caused by negligence, accident, unreasonable use, modification, tampering or any other causes not related to defective materials or workmanship. To receive warranty service, call the Sega Consumer Service Department at: 1-800-USA-SEGA.

To receive Canadian warranty service, call the Sega Canadian Consumer Service Department at: 1-800-872-7342.

DO NOT RETURN YOUR SEGA CD BACKUP RAM CART TO YOUR RETAIL SELLER. Return the cartridge to Sega Consumer Service. Please call first for further information. If the Sega technician is unable to solve the problem by phone, he or she will provide you with instructions on returning your defective cartridge to us. The cost of returning the cartridge to Sega's Service Center shall be paid by the purchaser.

Repairs after Expiration of Warranty

If your Sega CD Backup RAM Cart requires repairs after termination of the 90-day limited warranty period, you may contact the Sega Consumer Service Department at the number listed above. If the technician is unable to solve the problem by phone, he or she will advise you of the estimated cost of repair. If you elect to have the repair done, you will need to return the defective merchandise, freight prepaid and insured against loss or damage, to Sega's Service Center with an enclosed check or money order payable to Sega of America, Inc., for the amount of the cost estimate provided to you by the technician. If, after inspection, it is determined that your cartridge cannot be repaired, it will be returned to you and your payment will be refunded.

Limitations on Warranty

Any applicable implied warranties, including warranties of merchantability and fitness for a particular purpose, are hereby limited to 90 days from the date of purchase and are subject to the conditions set forth herein. In no event shall Sega of America, Inc., be liable for consequential or incidental damages resulting from the breach of any express or implied warranties. The provisions of this limited warranty are vaild in the United States only. Some states do not allow limitations on how long an implied warranty lasts, or exclusion of consequential or incidental damages, so the above limitation or exclusion may not apply to you. This warranty provides you with specific legal rights. You may have other rights which vary from state to state.