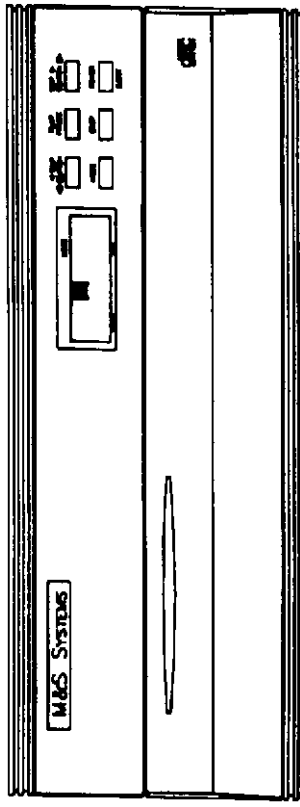


M&S Systems

MODEL MCD

STEREO COMPACT DISC UNIT

Owner's Guide



Lit. No. CDG
115264

Printed in U.S.A.

M&S SYSTEMS, INC.
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Dallas, Texas 75220

This booklet contains the information you need to get the most from your compact disc player, and it includes applicable statements of warranty. Retain this booklet for future reference.

Note: M&S Systems, Inc., wire, cable and wall housings are uniquely designed and manufactured for use with M&S Systems, Inc., Master Units and Speakers. The use of non-M&S brand wire, cable and wall housings adversely affects the audio quality and voids all product warranties.

M&S Systems, Inc. Limited 2-Year No-Fault Warranty

M&S SYSTEMS, Inc., warrants for 2 years from date of manufacture all products to be free of factory caused defects of material and workmanship. M&S SYSTEMS, Inc., will repair or replace at its option, parts and materials at no charge, regardless of the problem. This warranty extends to the original purchaser of the product and to each subsequent owner of the product during the term of this warranty.

This NO FAULT Warranty covers only the liability described above and does not include liability for incidental or consequential damages.

NOTE: Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

M&S SYSTEMS, Inc., will not be responsible for any service call charges from the installation or repair company to the homeowner. Defective product must be returned to the installing dealer or distributor by the homeowner. Transportation/freight charges on products submitted for replacement or repair are the customer's responsibility. M&S SYSTEMS will pay return freight charges.

Warranty Exclusions

This warranty applies only to products installed in a private residence.

This warranty does not apply 1) to any product which has been installed or used in violation of any applicable electrical code, or 2) Vacuum Power Units, Musical Intercom Master Units, Concert House, 8-ohm Speakers or Controls installed with non-M&S SYSTEMS brand wire/cable or wall housings. M&S SYSTEMS's wire, cable and wall housings are uniquely designed and manufactured for use with M&S SYSTEMS Master Units and Speakers. The use of non-M&S SYSTEMS brand wire, cable or wall housings adversely affects the audio quality and voids all product warranties.

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Note: Product specifications are subject to change without notice.

About Your Model MCD Compact Disc Player

Thank you for purchasing this Compact Disc player by M&S Systems, Inc. With the various features offered, you will have many hours of pleasurable service. Now, let us introduce you to a new concept in built-in CD players.

The Model MCD Compact Disc player has a microprocessor controlled mechanism which provides a smooth operating system. The MCD automatically plays standard 5 inch or "mini" 3 inch compact discs. This system offers a variety of choices of operation and other features which are discussed in the following instructions.

The Model MCD has many features, so it is important that you read this Owner's Guide thoroughly before operating the system. After you have finished reading the instructions, put them in a handy place for future reference. It is the user's responsibility to read and operate this system as outlined in this Owner's Guide.

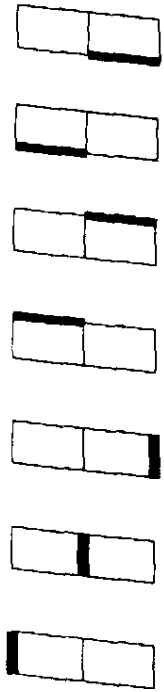
MAINTENANCE

CLEANING PROCEDURE

The CD player should be dusted off periodically with a clean and lint-free, soft, dry cloth. A clean, soft, damp cloth may be used to gently wipe off any dirt or fingerprints on the front panel of the Model MCD player. Do not use any solvent or abrasive cleaners as they may damage the finish.

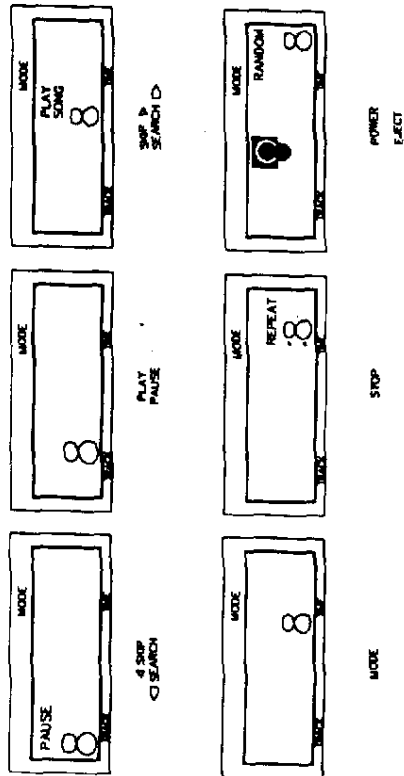
COMPACT DISC HANDLING

Care should be taken when storing and handling the CD to protect the flat surfaces of the CD from dirt, fingerprints, dust, scratches, or any other contamination. The CD should always be held by the edges and replaced in its case directly after playing. If the CD does become soiled by fingerprints, dust, or dirt, it can be wiped (always in a straight line, from center to edge) with a clean and lint-free, soft, dry cloth. No solvent or abrasive cleaner should ever be used on the CD.

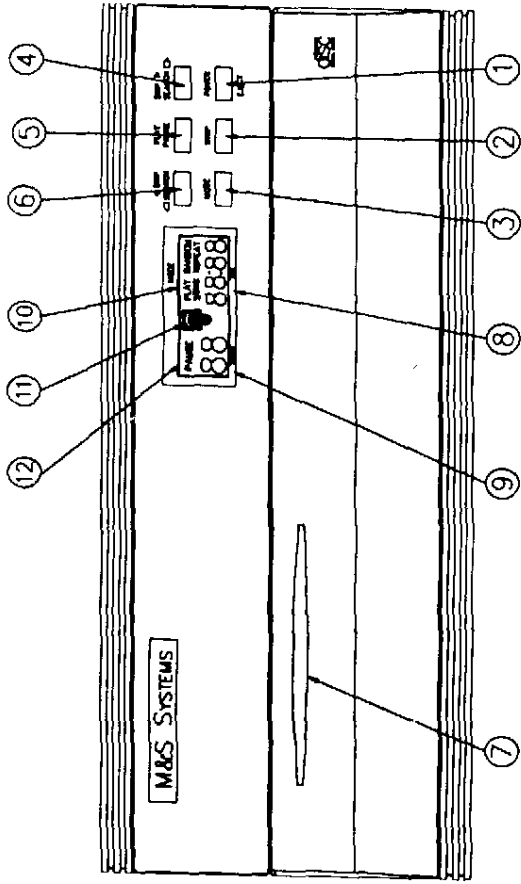


The indicators on the display will also turn on during this test and some of them will remain on throughout this portion of the test.

- The display backlight will turn on for approximately five (5) seconds and then turn off.
- The next test lasts for approximately 30 seconds and requires the operator to depress each function key, one at a time. As each key is depressed, a corresponding section of the display will turn on. The following table lists each key and which section of the display it turns on.



- The final test ejects the CD from the player (if a CD is in the player), resets the player, and turns the power off.



Control Panel Controls and Indicators

(Refer to the illustration above)

- POWER/EJECT** Depress this button to turn the **POWER** on or off if a CD is not in the player. Press to **EJECT** the CD from the player.
- STOP** Press **STOP** to reset the player to the beginning of the CD. The CD will remain in the player.

3 MODE

Depress the **MODE** button to change the four modes of the CD player:

PLAY - CD is played through once and the player stops.

RANDOM - CD tracks are played continuously in random order.

SONG REPEAT - Current CD track is

continuously played over and over.

REPEAT - Entire CD is continuously played over and over from beginning to end.

4 SKIP/ SEARCH > (Forward)

Depress and quickly release to **SKIP FORWARD** to the beginning of the next track.

The **SKIP FORWARD** function can be executed a number of times in succession to move forward a number of tracks. The **TRACK** display indicates the next track destination.

Depress and hold the button to **SEARCH FORWARD** on a CD to find a particular spot in the music. The CD plays forward at a high rate of speed as long as the key is held down. If the CD player is in **PAUSE**, **SEARCH FORWARD** operates the same except the audio is muted (turned off).

5 PLAY/ PAUSE or PAUSE the CD being played.

6 < SKIP/ SEARCH (Backward)

Depress and quickly release to **SKIP BACK** to the beginning of the current track. If the player is already at the beginning of the current track, **SKIP BACK** causes the CD player to move back to the beginning of the previous track. The **SKIP BACK** function can be executed a number of times in succession to move backward a number of tracks. The **TRACK** display indicates track destination.

RESETTING THE CD PLAYER

Should the CD player ever lock-up or operate in any way other than designated in these operating instructions, a **RESET** capability has been provided. **RESET** is activated by depressing the **SKIP/SEARCH >** (Forward) **AND** the **< SKIP/SEARCH** (Backward) simultaneously. This will eject the CD (if a CD is in the player), reset the player, and turn the power off.

COMPACT DISC ERROR

If the player has a problem playing the CD it will try again. If the CD is good, the player will continue operating. If the CD will not play, the player will eject the CD and the display will indicate "**CD Err**" (CD ERROR). The CD should be removed and wiped off (always in a straight line, from the center to the edge) with a clean, lint-free, soft, dry cloth. This will usually correct the problem and the CD can be inserted and will play fine. In some instances the CD may be marred or scratched beyond repair but the player will still try to play the CD, and may skip or eject when bad areas are encountered.

If the CD player has a problem ejecting a CD, it will display "**CD Err**" and remain in that condition until a **RESET** is performed (all other function keys will have no effect). This is a built-in feature which protects the CD player from damage. If **RESET** does not solve the problem, please call the M&S Systems Technical Service Department.

TESTING THE CD PLAYER

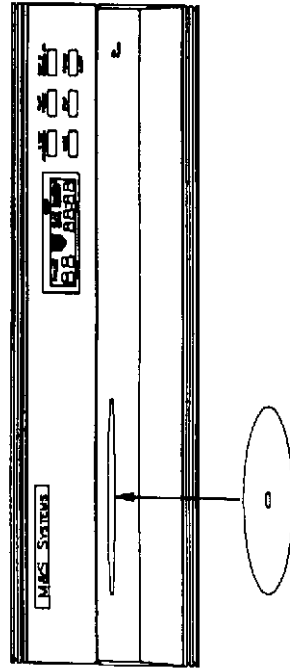
The CD player has a built-in test routine that can be used to see if the player is operating properly and to troubleshoot any problems. This built-in test routine can be executed by depressing the **SKIP/SEARCH >** (Forward), the **< SKIP/SEARCH** (Backward), **AND** the **STOP** keys simultaneously, and then releasing one of the **SKIP/SEARCH** keys before releasing the **STOP** key. The test consists of four (4) troubleshooting steps:

1. Each segment of the display is turned on, one at a time. Starting from the left digit, each segment of each digit will be turned on in the order shown in the following figure.

OPERATION AND FEATURES

INSERTING COMPACT DISC

A CD is loaded by inserting the CD (printed side UP) into the slot as shown below. The CD is placed into the slot about 1", then the player will automatically pull the CD into the player. The **CD IN** indicator will show that the CD is in the player. The player will start playing the CD in the selected mode (player is not in **PAUSE**) or display the total track and total time information and remain paused (player in **PAUSE**).



A deluxe feature of the Model MCD Compact Disc player is when the **POWER** is off, a CD can be inserted and the player automatically turns the power on, loads the CD, and starts playing in the **PLAY** mode.

EJECTING COMPACT DISC

The CD may be ejected at any time, from any mode, without depressing the **STOP** button first. Depressing the **EJECT** button will stop the CD, eject and hold the CD out of the slot, and the **CD IN** indicator will show that the CD is not in the player. The CD can be reloaded by simply applying a gentle push to slide the CD back in the player, or the CD can be removed from the player by pulling the CD straight out of the **CD SLOT**.

Depress and hold the button to **SEARCH BACK** on a CD to find a particular spot in the music. The CD plays backward at a high rate of speed as long as the key is held down. If the CD player is in **PAUSE**, **SEARCH BACK** operates the same except the audio is muted (turned off).

7 CD SLOT

Slot where CD is inserted into the CD player. The CD player will also eject the CD through this slot.

8 TIME

Displays the elapsed **TIME** the current track of the CD has played.

Displays the total **TIME** on the CD when a CD is first inserted into the player, and the player is in **PAUSE**.

9 TRACK

Displays the current **TRACK** when the CD is playing.

Displays the total number of **TRACKS** on the CD when a CD is first inserted into the player, and the player is in **PAUSE**.

Displays the **TRACK** number that will be played when executing the **SKIP** function.

Displays two dashes (- -) when the CD player is looking for the correct track when in **RAMDON** Mode.

Displays zero (0) when the **STOP** function has been executed. This shows that all the CD player motors have stopped, but the CD is still in the player.

10 MODE

Displays the **PLAY** indicator when the CD player is in the **PLAY** mode. (CD is played

through once and then player stops.)

Displays the **RANDOM** indicator when the CD player is in the Random mode (CD player continuously plays tracks randomly).

Displays the **SONG REPEAT** indicator when the CD player is in the Song Repeat mode (CD player continuously plays the same track over and over).

Displays the **REPEAT** indicator when the CD player is in the Repeat mode (CD is played continuously from beginning to end, again and again).

11 CD IN

The **CD IN** indicator looks like the figure below to indicate that a CD is in the player.



The **CD IN** indicator looks like the figure below to indicate that a CD is not in the player.



12 PAUSE

The **PAUSE** indicator blinks on and off to indicate that the CD player is in **PAUSE** (not playing). When a CD is inserted into the CD player with the **PAUSE** indicator blinking, the player will read the CD and display the total number of tracks on the **TRACK** display and the total time of the CD on the **TIME** display and remain in **PAUSE**.

The **PAUSE** indicator will remain off when the CD player is not in **PAUSE**. When a CD is inserted into the CD player with the **PAUSE** indicator off, the player will start playing automatically.