

NOW YOU CAN RECORD YOUR OWN AUDIO CD'S. RECORD FROM AN EXTERNAL SOURCE, OR DUB AT LOW OR HI SPEED FROM DECK A TO DECK B. THE CDR200 FUNCTIONS AS A DUAL CD CHANGER FOR CONTINUOUS PLAY OR AS TWO INDIVIDUAL PLAYERS.

CLASSIC

CD Recorder / Player

Owner's Manual

GETTING STARTED



MODEL CDR200

RECORDING MEDIA:

THIS RECORDER WILL RECORD ONTO BOTH CD-AUDIO RECORDABLE AND CD-AUDIO REWRITABLE DISCS, WHICH ARE DESIGNED FOR RECORDING MUSIC. SUITABLE DISCS WILL BEAR ONE OF THE LOGOS SHOWN BELOW, AND CAN BE USED IN THE FOLLOWING MANNER.



CD-AUDIO RECORDABLE (CD-R) DISCS:

THESE ARE WRITE-ONE ONLY AND CANNOT BE ERASED ONCE WRITTEN. WHEN RECORDED AND FINALIZED, THESE DISCS PLAY ON ALL CD PLAYERS AND RECORDERS.



CD-AUDIO REWRITABLE (CD-RW) DISCS:

CAN BE RECORDED, ERASED AND RE-RECORDED HUNDREDS OF TIMES. WHEN FINALIZED, THEY PLAY ON CD-RW COMPATIBLE CD PLAYERS AND RECORDERS ONLY.

SETUP OPTIONS:

STAND-ALONE RECORDER

USE THE CDR-200 AS A STAND-ALONE RECORDER TO DUB FROM PLAYER DECK TO RECORDER DECK. PLAYBACK RECORDED CD-R'S ON ANY STANDARD CD PLAYER OR PLAYBACK RECORDED CD-RW'S ON ANY CD-RW COMPATIBLE CD PLAYER.

RECORDER AND / OR PLAYER COMPONENT

USE THE CDR-200 AS A RECORDER AND / OR PLAYER TO DUB FROM YOUR EXTERNAL RECEIVER TO THE RECORDER DECK.

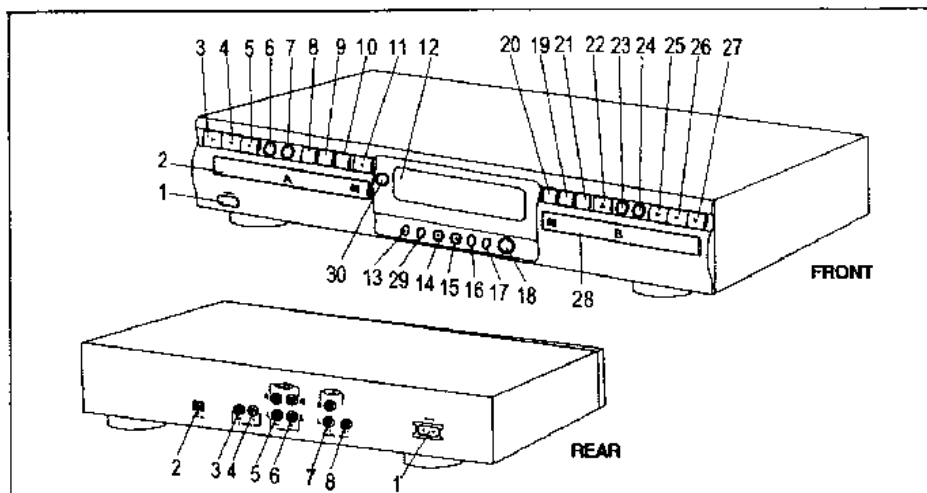
NOTE: THIS REQUIRES AN EXTERNAL RECEIVER

ACCESSORIES INCLUDED:

2 ANALOG AUDIO CABLES (WITH RED & WHITE PLUGS)
1 DIGITAL COAXIAL CABLE (WITH BLACK PLUGS)
POWER CORD
REMOTE CONTROL WITH 2 "AA" BATTERIES

SEE ENCLOSED INSTRUCTIONS FOR CONNECTION OPTIONS & DRAWINGS

CONTROLS AND CONNECTIONS



Front panel controls

CD recorder

1. **Power** switches the unit ON and OFF
2. **Disc tray (A)** recorder deck
3. **Play** starts play or record
4. **Pause** interrupts play (pause play)
5. **Stop** stops play
6. **⏮** previous track / search back
7. **⏭** next track/search forward/new track
8. **Record** record
9. **Display** select display information
10. **Repeat** Repeat all the tracks in the disc or the programmed sequence
11. **Open/Close** Open/Close disc tray
12. **DISPLAY** (information screen)
13. **CD SYNC** synch. recording:
recording starts automatically
14. **Source** select digital or analog input
15. **Erase** erase recording (CD-RW DISCS)
16. **Confirm** confirming your selection to record, erase, finalize, program
17. **Finalize** finalize recording
18. **Rec. Level** adjusts recording level
19. **Dubb** digital dubbing (1x or high 2x speed) from CD player to CD Recorder

CD player

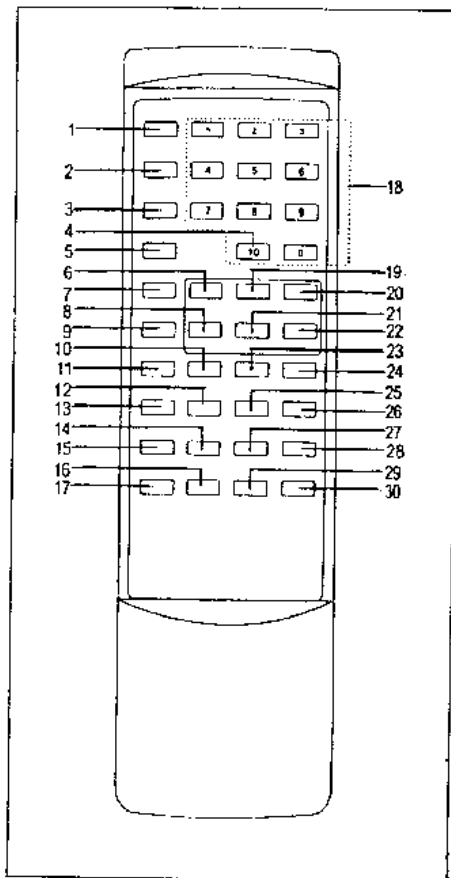
20. **Open/Close** Open/Close disc tray
21. **Display** select display information
22. **Repeat** Repeat all the tracks in the disc or the programmed sequence

23. **⏮** previous track / search back
24. **⏭** next track/search forward/new track
25. **Play** starts play
26. **Pause** interrupts play (pause play)
27. **Stop** stops play
28. **Disc tray (B)** player deck
29. **Dual** plays CD Recorder and CD player separately
30. **Remote Sensor**

Rear panel connections

1. **AC Power Cord Connector**
2. **Optical In** connects from the digital optical output of an external audio source
3. **Digital Out CDR & CD** connects to the digital coaxial input of a receiver or recording device
4. **Digital In** connects from the digital coaxial output of an external audio source
5. **Analog Out CDR & CD** connects to the line input of a receiver (left & right)
6. **Analog In** connects from the line output of a receiver (left & right) or external audio source
7. **Analog Out CD** connection for a receiver from CD deck to input line on a receiver (left and right)
8. **Digital Out CD** connection for digital coaxial output from CD deck to external device, e.g. receiver or recording device

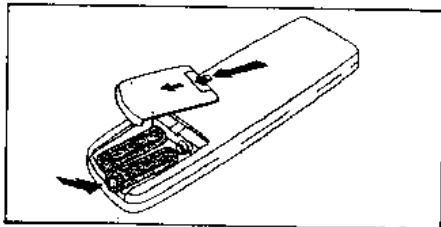
REMOTE CONTROL



Remote Control

1. **Intro**.....plays the first 10 seconds of each track on the disc
2. **Random**.....random play
3. **Repeat**.....repeats track or disc
4. **+10**.....to select track numbers above 9
5. **Resume**.....continues play from where it was last stopped
6. **◀◀**.....previous track / search back
7. **CD-R**.....select CD Recorder
8. **Play**.....starts play
9. **Mute**.....mutes audio Off/On
10. **AUTO/MAN**.....selects automatic or manual track numbers.
11. **Go To**.....go to track time directly.
12. **Increase**.....use for entering track numbers during manual record (MANUAL must be selected.)
13. **Last TRK**.....stops recording after current track
14. **DUBB**.....track and disc digital DUBBing from CD to CD-RW
15. **CD SYNC**.....synchronize with external digital audio source
16. **CNFRM**.....confirming your selection to erase, finalize or program
17. **Finalize**.....finalizes recording
18. **0-9**.....numeric keys
19. **▶▶|**.....next track/search forward/new track
20. **CD**.....select CD Player
21. **Pause**.....interrupts play
22. **Stop**.....stops play
23. **Program**.....enters track program mode
24. **Clear**.....clears the program
25. **Dual**.....plays CD Recorder and CD Player separately
26. **Display**.....scrolls between various display time formats
27. **Speed**.....recording speed selection
28. **Source**.....select digital or analog input
29. **Erase**.....erases recording. Toggles between Track Erase and Disc Erase
30. **Rec**.....starts recording. Puts recorder into Record Standby mode

Inserting batteries



Note: Batteries contain chemical substances. Dispose of them properly.

1. Open the battery compartment cover.
2. Insert 2 x "AA" batteries observing that polarities are properly aligned.
3. Replace the cover.

GENERAL CONNECTIONS

FOR PLAYING BACK ON THE RECORDER DECK A AND / OR PLAYBACK DECK B, THE FOLLOWING OUTPUT CONNECTIONS ARE AVAILABLE:

- DIGITAL COAXIAL OUTPUT (CD & CD-R)
 - ANALOG OUTPUT (CD & CD-R)
- WE RECOMMEND THAT THESE BE CONNECTED TO THE TAPE OR CD INPUT ON YOUR RECEIVER.

WHEN USING AN EXTERNAL SOURCE TO RECORD FROM, THE FOLLOWING INPUT CONNECTIONS ARE AVAILABLE:

- DIGITAL OPTICAL INPUT (CD-R)
- DIGITAL COAXIAL INPUT (CD-R)
- ANALOG INPUT (CD-R)

FOR PLAYBACK ON THE RECORDER DECK A AND PLAYBACK DECK B SEPARATELY (DUAL MODE), THE FOLLOWING OUTPUT CONNECTIONS ARE AVAILABLE:

- DIGITAL COAXIAL OUTPUT (CD & CD-R)
 - ANALOG OUTPUT (CD & CD-R)
- WE RECOMMEND THAT EITHER ONE WOULD BE CONNECTED TO THE CD INPUT ON YOUR RECEIVER. (Fig. 4)

THE CONNECTIONS TO BE MADE DEPEND ON THE POSSIBILITIES YOUR AUDIO EQUIPMENT OFFERS. PLEASE REFER TO THE USER MANUALS FOR YOUR EXTERNAL AUDIO EQUIPMENT FIRST.

DIGITAL RECORDINGS, EITHER OPTICAL OR COAXIAL, WILL GIVE THE BEST PERFORMANCE IN TERMS OF AUDIO AND VERSATILITY (E.G. AUTO-TRACK). THE DIGITAL OPTICAL CONNECTION IS LESS SENSITIVE TO EXTERNAL DISTURBANCES.

IF YOUR EQUIPMENT DOES NOT ALLOW FOR DIGITAL CONNECTIONS, THE CDR200 INTEGRATED ANALOG/DIGITAL CONVERTER WILL ENSURE EXCELLENT AUDIO PERFORMANCE WHEN RECORDINGS ARE MADE FROM AN ANALOG SOURCE.

PLAYBACK VIA THE DIGITAL COAXIAL OUTPUT OF THE CDR200 GIVES THE BEST AUDIO PERFORMANCE. IF YOUR EXTERNAL EQUIPMENT DOES NOT OFFER DIGITAL CONNECTIONS THE CDR200 INTEGRATED ANALOG/DIGITAL CONVERTER ENSURES A HIGH SOUND QUALITY VIA THE ANALOG OUTPUT.

WE RECOMMEND BOTH THE DIGITAL AND ANALOG CONNECTIONS BE MADE SO THAT ANALOG RECORDINGS CAN BE MADE WHEN DIGITAL RECORDING IS NOT POSSIBLE.

THE MOST COMMON WAYS OF CONNECTING THE CDR200 ARE EXPLAINED ON Fig. 4.

ANALOG CONNECTIONS

CDR200 & RECEIVER

1. FOR RECORDING FROM AN EXTERNAL RECEIVER, CONNECT ONE END OF CABLE ① TO THE ANALOG/CDR-IN JACKS ON THE BACK PANEL OF THE CDR200 AND THE OPPOSITE END OF CABLE ① INTO THE LINE-OUT OR TAPE-OUT JACKS ON THE BACK PANEL OF YOUR EXTERNAL RECEIVER.

2. FOR RECORDING FROM AN EXTERNAL CD PLAYER/CHANGER, CONNECT END OF CABLE ① TO THE ANALOG/CDR-IN JACKS ON THE BACK PANEL OF THE CDR200 AND THE OPPOSITE END OF CABLE ① INTO THE LINE-OUT JACKS ON THE BACK PANEL OF YOUR EXTERNAL CD CHANGER (Fig. 5).

3. FOR PLAYBACK ON THE CDR200 CONNECT ONE END OF CABLE ③ TO THE ANALOG-OUT JACKS ON THE BACK PANEL OF THE CDR200 AND THE OPPOSITE END OF CABLE ③ INTO THE INPUT JACKS ON THE BACK PANEL OF YOUR EXTERNAL RECEIVER. (Fig. 4) DUAL FUNCTION MUST BE "OFF".

4. TO PLAYBACK ON PLAYER DECK B OF THE CDR200 SEPARATELY FROM THE RECORDER DECK A, DUAL MODE MUST BE SELECTED. THIS CONNECTION FORMAT ALLOWS YOU TO MONITOR THE OUTPUT OF BOTH DECKS INDEPENDENTLY. CONNECT ONE END OF CABLE ② (NOT SUPPLIED) TO THE ANALOG-OUT JACKS ON THE BACK PANEL OF THE CDR200 AND THE OPPOSITE END OF CABLE ② INTO THE INPUT JACKS ON THE BACK PANEL OF YOUR EXTERNAL RECEIVER, e.g. CD, AUX OR TAPE IN. NOTE: • NEVER USE THE PHONE INPUT JACKS ON RECEIVER.

• THE CDR200 IS EQUIPPED WITH A DIGITAL COAXIAL OUTPUT FOR THE CD PLAYER DECK. THIS OUTPUT CONNECTION CAN BE USED FOR DIGITAL PLAYBACK.

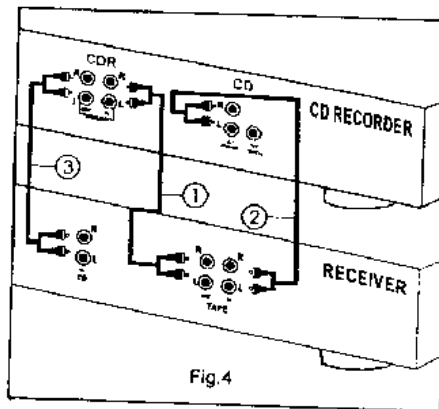
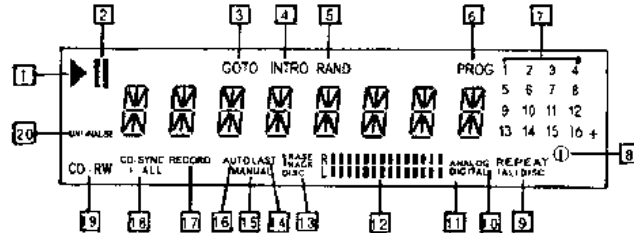


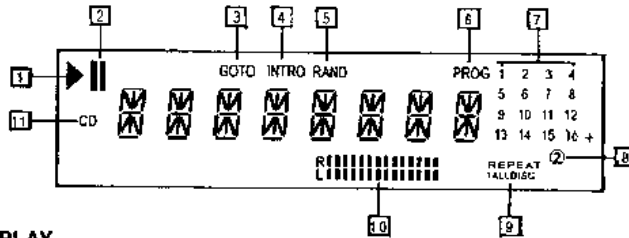
Fig. 4

DISPLAY EXPLANATION



CD RECORDER SECTION DISPLAY

- | | |
|------------------------------|---|
| 1) ▶ | PLAY FUNCTION ACTIVE |
| 2) | PAUSE FUNCTION ACTIVE |
| 3) GOTO | SELECT AND GO TO TRACK TIME DIRECTLY |
| 4) INTRO | 10 SEC. PLAY INTRODUCTION |
| 5) RAND | PLAYS TRACKS IN RANDOM ORDER |
| 6) PROG | PROGRAMMED PLAY |
| 7) 1 - 16 + | DISC TRACKS NUMBER |
| 8) ① | CD RECORDING DECK SECTION |
| 9) REPEAT 1/ALL/DISC | REPEAT 1 TRACK / ALL TRACKS / DISC |
| 10) ANALOG | ANALOG INPUT IS SELECTED |
| 11) DIGITAL | DIGITAL INPUT IS SELECTED |
| 12) [] | L/R RECORD / PLAY LEVEL BAR (ANALOG) |
| 13) ERASE (TRACK/DISC) | LIGHT UP DURING ERASE RECORDING |
| 14) LAST TRACK | PLAYING LAST |
| 15) MANUAL | MANUALLY INCREASE TRACK NUMBERS |
| 16) AUTO | AUTOMATICALLY INCREASE TRACK NUMBERS |
| 17) RECORD | FLASHES DURING RECORDING |
| 18) CD-SYNC (1 / ALL) | SYNCHRONIZED RECORDING IS ACTIVE |
| 19) CD-R / CD-RW | CD-R (AUTO) DISC INSERTED / CD-RW (AUTO) DISC INSERTED |
| 20) FINALIZE / UNFINALIZE | CD-R OR CD-RW FINALIZED / CD-R OR CD-RW UNFINALIZED |



CD SECTION DISPLAY

- | | |
|----------------------|--------------------------------------|
| 1) ▶ | PLAY FUNCTION ACTIVE |
| 2) | PAUSE FUNCTION ACTIVE |
| 3) GOTO | SELECT AND GO TO TRACK TIME DIRECTLY |
| 4) INTRO | 10 SEC. PLAY INTRODUCTION |
| 5) RAND | PLAYS TRACKS IN RANDOM ORDER |
| 6) PROG | PROGRAMMED PLAY |
| 7) 1 - 16 + | DISC TRACKS NUMBER |
| 8) ② | CD DECK SECTION |
| 9) REPEAT 1/ALL/DISC | REPEAT 1 TRACK / ALL TRACKS / DISC |
| 10) [] | L/R RECORD / PLAY LEVEL BAR (ANALOG) |
| 11) CD | CD INSETED (PRE-RECORDED CD DISC) |

DISPLAY MESSAGES

OPEN..... during tray opening
OPE..... optimum power calibration
CLOSE..... during tray closing
READ TOC..... reading table of content
NO DISC..... no disc loaded, or disc unreadable
Cd..... CD player
CdR..... CD Recorder
DUAL ON..... deck and player deck operating separately
DUAL OFF..... both decks are unified to operate together
DUBB 1..... Dub one track only
DUBB ALL..... Dub all tracks
SPEED 1X..... normal speed dubbing
SPEED 2X..... high speed dubbing
P-01..... program play first track programmed
OPTICAL..... digital optical input source selected
COAXIAL..... digital coaxial input source selected
ANALOG..... analog input source selected
FULL..... Program full
CLR PRG..... track program being erased
TRK REL..... current track real time
TRK REM..... current track time remaining
dSC REM..... Disc time remaining
dSC TIME..... Disc real time
CONSUMER..... Cannot record on PC type discs. Load an
AUDIO CD-R or AUDIO CD-RW disc

PLAYING

AS A 2-DISC CHANGER

- 1) LOAD PRE-RECORDED AUDIO CD'S INTO BOTH DECKS.
 - 2) SELECT "DUAL OFF" MODE WITH "DUAL" BUTTON (ON REMOTE OR FRONT PANEL).
 - 3) PRESS PLAY BUTTON ON FRONT PANEL OF EITHER DECK. OR, USE THE REMOTE TO SELECT CD OR CDR, THEN PRESS THE PLAY BUTTON.
 - 4) SELECT "REPEAT DISC" WITH REPEAT BUTTON ON REMOTE.
- "REPEAT OFF" → REPEAT 1 → REPEAT ALL → REPEAT DISC

BOTH DECKS WILL PLAY THE 2 CD'S ENDLESSLY UNTIL ANOTHER SELECTION IS MADE.

PLAYING 2 CD'S ONCE ONLY

- 1) FOLLOW STEPS 1 - 3 AS IN ABOVE.
- 2) PRESS PLAY ON STARTING DECK OF YOUR CHOICE. OR, USE THE REMOTE TO SELECT CD OR CDR, THEN PRESS PLAY.
- 3) MAKE SURE "REPEAT" IS OFF BY PRESSING "REPEAT" UNTIL IT IS NOT DISPLAYED.

BOTH DECKS WILL PLAY THE 2 CD'S ONCE, THEN STOP.

PROGRAMMED PLAY

- 1) SELECT PROGRAM PLAY WITH THE "PROGRAM" BUTTON ON THE REMOTE.
- 2) FOLLOW THE SAME PROCEDURE AS ABOVE.

PLAYBACK TRACKS IN ORDER FROM THE FIRST TRACK (EITHER DECK)

- 1) TURN ON THE POWER TO THE CDR200 & THE EXTERNAL SOURCE.
- 2) PRESS OPEN/CLOSE BUTTON TO EJECT THE DISC TRAY AND LOAD A DISC (LABEL SIDE UP).
- 3) PRESS PLAY BUTTON. THE DISC TRAY AUTOMATICALLY CLOSSES AND THE FIRST TRACK STARTS PLAYING.

TO STOP PLAYBACK

- 1) TO STOP PLAYBACK, PRESS THE STOP BUTTON.
- 2) TO STOP PLAYBACK TEMPORARILY, PRESS THE PAUSE BUTTON.
- 3) TO CONTINUE PLAYBACK, PRESS THE PAUSE OR PLAY BUTTON OR PRESS RESUME.

TO REMOVE DISC FROM THE TRAY

- 1) PRESS STOP BUTTON.
- 2) PRESS OPEN/CLOSE BUTTON TO OPEN THE TRAY. REMOVE THE DISC FROM THE TRAY.

OTHER PLAYBACK FUNCTIONS

FRONT PANEL/REMOTE CONTROL

- ▶▶..... SKIPS TO THE BEGINNING OF THE SUBSEQUENT TRACK
- ◀◀..... SKIPS TO THE BEGINNING OF THE PREVIOUS TRACK

REMOTE CONTROL

- RESUME..... CONTINUES PLAYING FROM WHERE IT WAS LAST STOPPED
- PROGRAM..... PROGRAM UP TO 32 TRACKS TO PLAY IN ANY DESIRED SEQUENCE. TRACKS CAN BE PROGRAMMED MORE THAN ONCE, BUT EACH OCCURRENCE COUNTS AS A TRACK

PROGRAM

- CLEAR..... CLEARS THE PROGRAM
- RANDOM..... PLAYS THE TRACKS IN RANDOM ORDER. TO RETURN TO NORMAL PLAY, PRESS RANDOM AGAIN. RANDOM IS CLEARED WHEN THE DISC TRAY IS OPENED.
- DISPLAY..... SHOWS RELATIVE/ABSOLUTE/ REMAINING TIME. PRESS AGAIN TO SWITCH DISPLAY
- REPEAT..... REPEAT ONE OR ALL THE TRACKS IN THE DISC OR THE PROGRAMMED SEQUENCE
- INTRO..... PLAYS THE FIRST 10 SECONDS OF EACH TRACK OF THE DISC

PROGRAMMING

YOU CAN PROGRAM UP TO 32 TRACKS TO PLAY IN ANY DESIRED SEQUENCE AND THIS CAN BE DONE ON EITHER ONE, OR A COMBINATION OF BOTH, THE CD PLAYER OR THE CD RECORDER DECK. TRACKS CAN BE PROGRAMMED MORE THAN ONCE, BUT EACH OCCURRENCE COUNTS AS A TRACK.

- 1) PRESS PROGRAM TO ENTER PROGRAM MODE
- 2) KEY IN A TRACK NUMBER USING THE NUMERICAL KEYS. FOR 2-DIGIT NUMBERS, PRESS 10+ FOLLOWED BY THE 2ND DIGIT.
- 3) PRESS CONFIRM KEY TO PROGRAM TRACK
- 4) REPEAT STEP 2 AND 3 FOR ALL TRACKS TO BE PROGRAMMED
- 5) WHEN PROGRAMMING IS COMPLETED, PRESS PLAY TO START PLAY PROGRAM.
- 6) PRESS PROGRAM TO EXIT PROGRAM MODE
- 7) PRESS CLEAR AND THEN CONFIRM KEY TO CLEAR THE PROGRAM

RANDOM PLAY

1. PRESS "RANDOM" ON THE REMOTE BEFORE STARTING OR DURING PLAY TO ACTIVATE RANDOM PLAY.
2. PRESS RANDOM AGAIN TO RETURN TO NORMAL CD PLAY.

NOTE: RANDOM IS ALSO CLEARED WHEN YOU OPEN THE DISC TRAY.

REPEAT CD, TRACK OR PROGRAM

- 1) PRESS REPEAT ON THE REMOTE CONTROL ONE OR MORE TIMES DURING CD PLAY.

RECORDING

WHEN "REPEAT" APPEARS ON THE DISPLAY, THE CURRENT TRACK PLAYS REPEATEDLY. WHEN "REPEAT ALL" APPEARS ON THE DISPLAY, ALL TRACKS ON CURRENT CD WILL BE REPEATED INDEFINITELY.

2. TO RETURN TO NORMAL PLAY, PRESS REPEAT ONE OR MORE TIMES UNTIL "REPEAT" DISAPPEARS FROM THE DISPLAY.

NOTE: YOU CAN USE RANDOM IN COMBINATION WITH THE REPEAT CD OR PROGRAMMED PLAY USING AS A 2-DISC CHANGER. REPEAT WILL ALSO BE CLEARED IF YOU OPEN THE DISC TRAY.

DUBBING FEATURES

USE THE DUBBING FEATURE FOR RECORDING FROM THE CDR200 PLAYBACK DECK B TO THE RECORDER DECK A. THE ORIGINAL QUALITY IS MAINTAINED AND DUBBING CAN BE PERFORMED AT 1x OR 2x SPEED. TRACKS WILL BE AUTOMATICALLY INCREMENTED.

THE DUBBING FEATURE ALLOWS DIGITAL DISC-TO-DISC RECORDING. THE DISC IN THE CD PLAYER DECK IS THE SOURCE DISC AND DUBBING CAN BE PROGRAMMED FOR THE ENTIRE DISC (DUBB-ALL) OR SELECTED TRACKS ONLY (DUBB 1).

DUBBING ALL TRACKS

- 1) PRESS THE EJECT KEY ON PLAYBACK DECK B AND LOAD THE SOURCE DISC.
- 2) PRESS EJECT KEY IN RECORDER DECK A AND LOAD A CD-R OR CD-RW DISC.
- 3) CHECK THAT THE DISPLAY INDICATES CD-R OR CD-RW. THE RECORDING PROCEDURE IS THE SAME FOR BOTH DISC TYPES.
- IF THE DISC CONTAINS PREVIOUS RECORDINGS, THE PLAYER SEARCHES FOR AND BEGINS RECORDING A NEW TRACK AFTER THE LAST TRACK ON THE DISC.
- 4) PRESS SPEED TO SELECT "1x" (NORMAL SPEED) OR "2x" (HI-SPEED) RECORDING.
- 5) PRESS DUBB TO SELECT "DUBB-ALL".
- 6) PRESS CONFIRM ON THE REMOTE OR UNIT.
- 7) PRESS STOP AT ANY TIME TO CANCEL.

DUBBING A SINGLE TRACK

- 1) PRESS THE EJECT KEY ON PLAYBACK DECK B AND LOAD THE SOURCE DISC.
- 2) PRESS EJECT KEY ON RECORDER DECK A AND LOAD A CD-R OR CD-RW DISC.
- 3) CHECK THAT THE DISPLAY INDICATES CD-R OR CD-RW. THE RECORDING PROCEDURE IS THE SAME FOR BOTH DISC TYPES.
- IF THE DISC CONTAINS PREVIOUS RECORDINGS, THE PLAYER SEARCHES FOR AND BEGINS RECORDING A NEW TRACK AFTER THE LAST TRACK ON THE DISC.
- 4) PRESS **◀◀** OR **▶▶** TO SELECT THE TRACK TO BE DUBBED.
- 5) PRESS SPEED TO SELECT "1x" (NORMAL SPEED) OR "2x" TO SELECT HIGH SPEED RECORDING.
- 6) PRESS DUBB TO SELECT "DUBB 1".
- 7) PRESS CONFIRM TO START DUBBING.
- 8) PRESS STOP TO CANCEL AT ANY TIME.

SERIAL COPY MANAGEMENT SYSTEM

THIS PRODUCT COMPLIES WITH THE SERIAL COPY MANAGEMENT SYSTEM (SCMS). SCMS ENCODING MAY HAVE BEEN UTILIZED ON COMMERCIAL CD ALBUMS SO AS TO PREVENT MAKING COPIES OF COPIES BY DIGITAL MEANS. THEREFORE, WHILE YOU MAY USE THE CDR200 TO COPY ORIGINAL SOURCE CDS ONTO BLANK CD-R OR CD-RW AUDIO MEDIA (ON WHICH COPYRIGHT ROYALTIES ALREADY HAVE BEEN PAID), YOU WILL NOT BE ABLE TO MAKE A COPY OF A COPY BY MEANS OF DIGITAL CONNECTION IF SCMS ENCODING WAS ON THE SOURCE CD. HOWEVER, SCMS DOES PROVIDE FOR ADDITIONAL GENERATIONS OF COPYING OVER ANALOG INTERFACES (WITH AN ATTENDANT SLIGHT DEGRADATION IN QUALITY). WHERE DIGITAL COPYING BETWEEN DRIVES IS NOT AVAILABLE, THE CDR200 WILL AUTOMATICALLY SWITCH TO SUCH AN ANALOG INTERFACE.

RECORDING FROM AN EXTERNAL SOURCE

- 1) CHECK FOR CORRECT CONNECTIONS FROM THE EXTERNAL SOURCE TO THE CDR200.
- 2) PRESS EJECT KEY ON RECORDER DECK A AND LOAD A CD-R OR CD-RW DISC.
- 3) CHECK THAT THE DISPLAY INDICATES CD-R OR CD-RW. THE RECORDING PROCEDURES ARE THE SAME FOR BOTH DISC TYPES.
- IF THE DISC CONTAINS PREVIOUS RECORDINGS, THE PLAYER SEARCHES FOR AND BEGINS RECORDING A NEW TRACK AFTER THE LAST TRACK ON THE DISC.
- 4) TO SELECT INPUT SOURCE (DIGITAL, ANALOG OR OPTICAL) PRESS THE SOURCE KEY ON FRONT PANEL OR REMOTE CONTROL.
- 5) PRESS CONFIRM TO SAVE THE SELECTION.
- 6) PRESS STOP AT ANY TIME TO CANCEL.

RECORDING FROM AN ANALOG SOURCE

- 1) PRESS SOURCE KEY ON REMOTE CONTROL OR FRONT PANEL UNTIL DISPLAY READS ANALOG.
- 2) SELECT AUTO OR MANUAL TRACK INCREMENT BY PRESSING AUTO/MANUAL.
- IN AUTO MODE, A NEW TRACK NUMBER IS INSERTED EACH TIME THE CD-RECORDER DETECTS A 3-SECOND PAUSE IN THE SOURCE. IN THIS MODE YOU CANNOT INSERT TRACK NUMBERS MANUALLY.
- IN MANUAL MODE YOU CAN INSERT TRACK NUMBERS AT ANY POINT DURING RECORDING BY PRESSING INCREASE.
- 3) START PLAY AT THE ANALOG SOURCE AND ADJUST THE RECORDING LEVEL CONTROL ON THE FRONT PANEL UNTIL THE RECORDING LEVEL METER ON THE DISPLAY SHOWS ALL THE YELLOW SEGMENTS AND NO RED SEGMENTS APPEAR DURING THE PEAK MUSIC LEVEL OUTPUT.
- 4) RESTART PLAY AT THE ANALOG SOURCE, THEN PRESS RECORD TO BEGIN RECORDING.
- 5) DISPLAY WILL SHOW THE CURRENT TRACK NUMBER AND ELAPSED RECORDING TIME. TO SEE THE REMAINING RECORDING TIME PRESS DISPLAY 1x.

RECORDING

- 6) IN AUTO MODE RECORDING, IT STOPS AUTOMATICALLY WHEN THE RECORDER DETECTS A 20-SECOND PAUSE FROM THE INPUT SOURCE.
- 7) TO STOP RECORDING IN AUTO OR MANUAL, PRESS STOP. WHEN RECORDING STOPS, THE CD-RECORDER AUTOMATICALLY UPDATES THE DISC'S TEMPORARY TABLE OF CONTENTS. DURING THIS PROCESS, THE DISPLAY READS UPDATE.

NOTE: WHEN THE DISC IS FULL IT MUST BE FINALIZED BEFORE IT CAN BE PLAYED ON ANOTHER CD PLAYER. SEE FINALIZING A DISC SECTION IN THIS MANUAL. A DISC THAT IS NOT FINALIZED CANNOT BE PLAYED ON ANOTHER CD PLAYER UNLESS THE PLAYER IS A CD RECORDER. NON-FINALIZED CD-R DISC CAN ALWAYS BE PLAYED ON THE CD RECORDER. IT IS ALSO POSSIBLE TO ADD RECORDINGS IF RECORDING SPACE IS AVAILABLE.

RECORDING FROM A DIGITAL SOURCE

- 1) CONNECT THE EXTERNAL SOURCE TO THE CDR200'S DIGITAL OR OPTICAL-IN CONNECTOR. IF NECESSARY PRESS SOURCE REPEATEDLY TO DISPLAY COAXIAL OR OPTICAL (TO MATCH THE INPUT CONNECTION TYPE).
- 2) SELECT AUTO OR MANUAL TRACK INCREMENT BY PRESSING AUTO/MANUAL.
- IN AUTO MODE, A NEW TRACK NUMBER IS INSERTED EACH TIME THE CD-RECORDER DETECTS A 20-SECOND PAUSE IN THE SOURCE. IN THIS MODE YOU CANNOT INSERT TRACK NUMBERS MANUALLY.
- 3) START PLAY AT THE DIGITAL SOURCE AND ADJUST THE RECORDING LEVEL CONTROL ON THE FRONT PANEL UNTIL THE RECORDING LEVEL METER ON THE DISPLAY SHOWS ALL THE YELLOW SEGMENTS AND NO RED SEGMENTS APPEAR DURING THE PEAK MUSIC LEVEL OUTPUT.
- 4) PRESS RECORD TO BEGIN RECORDING FUNCTION.
- 5) TO STOP RECORDING IN AUTO OR MANUAL, PRESS STOP. WHEN RECORDING STOPS THE CD-RECORDER AUTOMATICALLY UPDATES THE DISC'S TEMPORARY TABLE OF CONTENTS. DURING THIS PROCESS, THE DISPLAY READS UPDATE.

NOTE: WHEN THE DISC IS FULL IT MUST BE FINALIZED BEFORE IT CAN BE PLAYED ON ANOTHER CD PLAYER. SEE FINALIZING A DISC SECTION IN THIS MANUAL. A DISC THAT IS NOT FINALIZED CANNOT BE PLAYED ON ANOTHER CD PLAYER UNLESS THE PLAYER IS A CD RECORDER. NON-FINALIZED CD-R DISCS CAN ALWAYS BE PLAYED ON THE CD RECORDER. IT IS ALSO POSSIBLE TO ADD RECORDINGS IF RECORDING SPACE IS AVAILABLE.

AUTOMATIC DIGITAL SOURCE RECORDING CD SYNC

CD SYNC RECORDING AUTOMATICALLY SYNCHRONIZES THE CD AUDIO RECORDER TO THE EXTERNAL DIGITAL SOURCE. THIS SYNC CAN BE COMPLETED ONLY IF (A) THE SOURCE DISC WAS RECORDED IN COMPLIANCE WITH THE AUDIO STANDARD IEC958: CONSUMER PART & (B) THE SOURCE PLAYER CONFORMS TO THE IEC958 DIGITAL OUTPUT FORMAT.

- 1) CONNECT THE EXTERNAL SOURCE TO THE CDR200'S DIGITAL OR OPTICAL-IN CONNECTOR. IF NECESSARY PRESS SOURCE REPEATEDLY TO DISPLAY COAXIAL OR OPTICAL (TO MATCH THE INPUT CONNECTION TYPE)
- 2) BE SURE THE DIGITAL SOURCE IS NOT PLAYING
- 3) FOR SINGLE TRACK RECORDING PRESS CD SYNC. THE DISPLAY WILL SHOW SYNC 1x.
- 4) TO RECORD ALL TRACKS PRESS CD SYNC 2x. THE DISPLAY WILL READ SYNC ALL.
- 5) WAIT FOR THE CDR200 TO ENTER RECORD STAND-BY MODE. THIS OCCURS WHEN THE BLINKING "WAIT" ON THE DISPLAY CHANGES TO "RDY".
- 6) START PLAYING THE EXTERNAL DIGITAL SOURCE. RECORDING WILL START AUTOMATICALLY. IF YOU PRESS PLAY IN THE MIDDLE OF A TRACK, THE CD SYNC FUNCTION WILL ONLY START AT THE NEXT TRACK (REMOVE).
- 7) THE CURRENT TRACK NUMBER & ELAPSED RECORDING TIME WILL BE DISPLAYED. PRESS DISPLAY AGAIN TO SEE THE REMAINING RECORDING TIME.
- IN AUTO MODE, RECORDING STOPS AUTOMATICALLY IF THE RECORDER DETECTS A 20-SECOND PAUSE FROM THE INPUT SOURCE (REMOTE IS ACTIVE FOR THE ANALOG RECORDING ONLY).
WHEN RECORDING STOPS THE CDR200 AUTOMATICALLY UPDATES THE DISC'S TEMPORARY TABLE OF CONTENTS. DURING THIS PROCESS THE DISPLAY READS "UPDATE".

NOTE: WHEN THE DISC IS FULL IT MUST BE FINALIZED BEFORE IT CAN BE PLAYED ON ANOTHER CD PLAYER. SEE FINALIZING A DISC SECTION IN THIS MANUAL. A DISC THAT IS NOT FINALIZED CANNOT BE PLAYED ON ANOTHER CD PLAYER UNLESS THE PLAYER IS A CD RECORDER. NON-FINALIZED CD-R DISCS CAN ALWAYS BE PLAYED ON THE CD RECORDER. IT IS ALSO POSSIBLE TO ADD RECORDINGS IF RECORDING SPACE IS AVAILABLE.

FINALIZING / UNFINALIZING / ERASING

STOP / PAUSE RECORDING

- 1) PRESS STOP BUTTON AT ANY TIME TO STOP RECORD.
- 2) TO AUTOMATICALLY STOP AFTER THE CURRENT TRACK HAS BEEN RECORDED PRESS LAST TRACK.
- 3) TO PAUSE RECORDING PRESS THE PAUSE BUTTON. RECORDING WILL ONLY RESUME AT THE NEXT TRACK WHEN CONTINUED.
- 4) TO CONTINUE RECORDING PRESS RECORD BUTTON.

FINALIZING A DISC

FINALIZING IS THE LAST STEP IN RECORDING A CD, WHICH ENABLES THE DISC TO BE PLAYED ON CONVENTIONAL CD PLAYERS. BEFORE A DISC IS FINALIZED IT CAN ONLY BE PLAYED ON A CD RECORDER.

- 1) LOAD THE DISC TO BE FINALIZED INTO THE RECORD TRAY.
 - 2) WHILE THE DISC IS STOPPED, PRESS FINALIZE, THEN PRESS CONFIRM WITHIN 2 SECONDS.
 - 3) THE TIME NEEDED FOR FINALIZING IS DISPLAYED (APPROX. 2 MINUTES). FINALIZING IS COMPLETED WHEN THE TOTAL NUMBER OF TRACKS AND THE RECORDING TIME ARE DISPLAYED.
- WHEN A CD-R IS FINALIZED NO FURTHER RECORDING IS POSSIBLE ON THE DISC.
 - A FINALIZED CD-RW CAN BE UNFINALIZED TO ENABLE FURTHER RECORDINGS.

UNFINALIZING / ERASING A CD-RW DISC

UNFINALIZING DELETES THE TABLE OF CONTENTS (TOC) ON A DISC TO ENABLE FURTHER RECORDINGS. IT ALSO ENABLES YOU TO ERASE THE WHOLE DISC. UNFINALIZING CAN ONLY BE PERFORMED ON RECORDED CD-RW DISCS.

TO AMEND NEW RECORDINGS ON A FINALIZED CD-RW DISC OR TO ERASE THE RECORDED TRACKS FROM A FINALIZED CD-RW DISC, THE DISC MUST FIRST BE UNFINALIZED. ONCE THE DISC IS UNFINALIZED YOU CAN BEGIN RECORDING.

- 1) LOAD THE CD-RW DISC INTO THE RECORD DECK.
- 2) PRESS THE ERASE BUTTON UNTIL THE UNFINALIZED MESSAGE APPEARS.
- 3) PRESS CONFIRM TO BEGIN THE UNFINALIZING PROCESS. THE DISPLAY WILL SHOW WAIT UNTIL THE PROCESS IS COMPLETED.

ERASING LAST TRACK

- 1) ERASING THE LAST TRACK CAN ONLY BE COMPLETED ON UNFINALIZED CD-RW DISCS
- 2) LOAD THE DISC INTO THE RECORD DECK
- 3) WHEN THE DISC STOPS PRESS ERASE ONCE TO ERASE THE LAST TRACK. THE DISPLAY WILL SHOW "ERASE LAST TRACK"
- 4) PRESS CONFIRM TO START ERASING. THE DISPLAY WILL SHOW "WAIT". THE PROCESS SHOULD TAKE ABOUT 10 SECONDS.

ERASING DISC

- 1) ERASING DISC IS APPLICABLE TO BOTH FINALIZED AND UNFINALIZED CD-RW DISCS
- 2) LOAD THE DISC INTO THE RECORD DECK
- 3) WHEN THE DISC STOPS PRESS ERASE 2x WITHIN 2 SECONDS. THE DISPLAY WILL SHOW "ERASE DISC"
- 4) PRESS CONFIRM TO START ERASING. THE DISPLAY WILL SHOW "WAIT". THE PROCESS SHOULD TAKE ABOUT 1.5 MINUTES.