

### CLOCK and TIMER OPERATIONS

The system has an Electronic Digital Clock/Timer that can automatically turn the system on or off at any desired time. It also has a Sleep-To Music function that operates the system for up to 90 minutes and then turns off the power.

#### Setting the Correct Time

When the AC cord is plugged in for the first time the display shows:

CLOCK AM 12:00
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Set the display to the correct time as follows:

Example - Set clock to 3:45 p.m.

CLOCK AM 12:00
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- 1, Press MEMO/CLOCK once CLOCK begins to flash.
2. Press and hold H (TUNING DOWN) until the correct hour is displayed. Be sure the PM indicator is on for times after noon.
3. Press and hold M (TUNING UP) until the correct minute is displayed.
4. After a few seconds CLOCK stops flashing and the clock runs normally.

NOTE: The time can only be adjusted when CLOCK is flashing. CLOCK stops flashing after about 8 seconds if no time adjustment is made. If CLOCK stops flashing before you finish setting the time, push MEMO/CLOCK again and continue to set the time while the CLOCK is flashing.

#### SETTING THE TIMER

1. Press DISPLAY if the system is not displaying the time.
2. Press ON TIME once. TIMER and ON flash.
3. While the indicators are flashing, press H and M to set the desired on time, for example 7:30 a.m.
4. Press OFF TIME once. TIMER and OFF flash.
5. While the indicators are flashing, press H and M to set the desired off time, for example 9:00 a.m.
6. After about 8 seconds the indicators stop flashing. The timer on and off times are now set.

NOTE: If the clock time or radio station frequency does not appear on the

display after an interruption of AC power, set FUNCTION to TUNER and press POWER.

Once you set the on and off times they remain in memory indefinitely as long as the AC power supply is not interrupted. You do not need to reset the times every day. To see the on or off times, press DISPLAY to show the correct time (if necessary) and then press ON TIME or OFF TIME once. This display shows the on or off time for about 8 seconds and then switches back to the correct time.

#### DISPLAY

The display shows the correct time while the power switch is off. It also shows the correct time while the power switch is on and the function selector is set to TAPE or CD/AUX. The display shows the AM or FM frequency when you are listening to the radio.

To see the time during radio operation, press DISPLAY once. The display changes from frequency to time. Press DISPLAY again to go back to the radio frequency

#### SLEEP TIMER OPERATION

1. Set POWER to off.
2. To set the system to turn on for 90 minutes then automatically turn off, press SLEEP. Or, to set the system to turn off sooner, press and hold SLEEP. The display counts down from 90 minutes in 10 minute increments. Release SLEEP when the system displays the desired sleep time.
3. To turn off the system before the sleep time elapses, press SLEEP.

#### GRAPHIC EQUALIZER CONTROLS

The graphic equalizer controls allow you greater control over the tone quality than normal bass and treble controls. This model has separate 3 band equalizer controls for the left and right channels.

Increase or decrease the bass response with the 150 Hz controls.

Increase or decrease the mid-range response with the 1 kHz controls.

Increase or decrease the treble response with the 8 kHz controls.

You can experiment with these controls until you find the most pleasing settings for the type of music you are listening to and for the acoustics of your listening area.

#### LISTENING to the RADIO

1. Set FUNCTION to TUNER.
2. Press POWER to turn on the system. The MAIN POWER indicator and the display light turn on, and the display changes from time to radio frequency.

3. Press BAND to select either the AM or FM band. The AM or FM indicator appears in the display to confirm the band you have selected.
4. Press TUNING UP or DOWN to tune to the desired station. Release the button when the desired frequency appears on the display, if necessary, fine tune to the exact frequency by tapping TUNING UP or DOWN until the exact frequency appears on the display. The FM STEREO indicator lights if the FM station is received in stereo.
5. Adjust the volume by pressing the upper or lower portion of VOLUME.
6. Adjust the graphic equalizer controls for the most pleasing sound.
7. Adjust BALANCE to provide equal volume at your normal listening position from both the left and right speakers.
8. Press POWER to turn off the system. The MAIN POWER indicator and the display turn off and the display changes from radio frequency to time.

#### LAST STATION MEMORY

The tuner always remembers the last station selected before the power was turned off. When the power is turned on again that same station is automatically selected.

#### PRESET MEMORY OPERATION

The tuner has 20 memories that can store up to 10 AM and 10 FM stations for instant recall. To memorize your favorite stations, follow Steps 1 through 4 "Listening to the Radio" and then:

1. Press MEMO/CLOCK once. MEMORY appears.
2. Press preset memory button #1/6 to enter the selected station into Memory #1. MEMORY turns off and the 1 indicator appears to confirm that the station is entered in Memory #1.

NOTE: You must press one of the preset memory buttons while MEMORY appears on the display (about 4 seconds) or the station is not memorized. If MEMORY turns off, press MEMO/CLOCK again and then press one of the preset memory buttons.

3. Tune up or down to the next station you want to memorize. Press MEMO/CLOCK and then one of the preset memory buttons to enter that station in the memory.
4. Repeat Step 3 until you have entered stations in preset Memories #1 thru #5.
5. To enter stations in preset Memories #6 thru #10, tune to the station, press SHIFT, then MEMO/CLOCK followed by one of the preset memory buttons.
6. After you preset up to 10 memories in one band, press BAND to change to the other band. Then follow the same procedure to preset up to 10 memories in that band, if desired.

## RECALLING PRESET STATIONS

To recall one of the preset stations in memory position 1 thru 5, simply press the corresponding preset memory button. To recall one of the stations in memory positions 6 thru 10 press SHIFT first and then the corresponding preset memory button.

## CHANGING A PRESET STATION

To change any one of the preset station memories simply enter a new station into that memory. The new station replaces the old station.

## SCANNING THE PRESET STATIONS

Press SCAN once. The tuner scans up to the next preset station and stops on that station for about 5 seconds before moving to the next preset station, and so on, until all 10 preset stations have been heard. To stop the scanning at any time, press MEMO/CLOCK once.

## PLAYING COMPACT DISCS

IMPORTANT! Before operating the CD changer, you must remove the CD drawer transit lock and CD turntable transit locks. Refer to the instructions under "Preparation for Use". Failure to remove the transit locks could result in damage to the CD changer mechanism.

NOTE: On initial operation of the CD player, the system might display EE. This is caused by shifting of the CD laser pickup during shipment. If this happens, simply press PLAY a second time to reset the laser to the play position.

1. Set FUNCTION to CD/AUX.
2. Press POWER to turn on the system.
3. The disc tray holds up to three compact discs, accommodating either 5-inch or 3-inch sizes. To insert discs:
  - a. Press OPEN/CLOSE. The disc tray slides open.
  - b. Place discs on the tray label side up. If necessary, press NEXT DISC to rotate the tray to provide access to all disc compartments. Discs play in numerical sequence (1, 2, 3). If you want to play the discs in a particular sequence, insert them in the desired order.

NOTE: When the CD function is selected and you turn on power, the disc in the back compartment (beneath the laser arm) is recognized as Disc 1. If the back compartment is empty, the changer recognizes the first disc it accesses as Disc 1.

4. Press OPEN/CLOSE to close the disc tray.
5. Press PLAY. The first available disc starts to play. Play starts with the first track of the selected disc and continues sequentially through the last track on the last CD. The changer then stops.

NOTE: Pressing NEXT DISC moves the disc tray ahead to the next compartment that contains a disc. If no discs are present, the tray stops at compartment 3. If you press NEXT DISC while a disc is playing, the next available disc begins to play.

During play, the display shows the disc number, the current track number, and the elapsed time since the start of play of that track. For example, the display would look like this if track 1 is playing and 12 minutes and 5 seconds have elapsed since it started.

```
1
2 3 > | 12:05
```

Press TIME MODE to show time remaining on the current track.

```
1
2 3 > | -8:00
```

Press TIME MODE again to show the time remaining on the entire disc.

```
1
2 3 > | -39:28
```

Press TIME MODE again to return to the original display of elapsed time since the start of the current track.

```
1
2 3    10 49:03
```

6. To pause a disc, press PLAY/PAUSE. Press PLAY/PAUSE a second time to resume.
7. Press OPEN/CLOSE. The disc tray slides out, allowing you to remove the discs.
9. Press NEXT DISC to rotate the tray and provide access to the disc in the back compartment.
10. Press OPEN/CLOSE to close the disc tray.

#### PLAYING A SPECIFIC TRACK

You can move forward or backward quickly within the selected disc by using the SKIP buttons.

1. Press SKIP|>> to skip forward to the start of the next track.
2. Press SKIP|<< to skip backward to the start of the current track or to the previous track if the player is at the start of a track.

If you select a new track while the disc is playing, the selected track begins to play. To play the selected track starting from the stop or

pause mode, press PLAY/PAUSE.

#### SEARCH FORWARD/BACKWARD

You can move forward or backward quickly within the selected track by using the SEARCH buttons. The disc can be playing or the changer can be in the pause mode.

1. Press and hold SEARCH >> to move rapidly forward. Release the button to stop at the desired point.
2. Press and hold SEARCH << to move rapidly backward. Release the button to stop at the desired point.

#### PROGRAMMING the ORDER of TRACKS

You can program the compact disc changer to play discs in any desired order, and repeat tracks as often as you like. Follow the steps below to enter and play a program.

#### Preparing to Program Tracks

1. Set FUNCTION to CD/AUX.
2. Press PROGRAM to enter the program mode. The system display PROGRAM and indicates the program step number as "OP-01." The display flashes Disc 1 and shows its position in the front left of the disc tray.
3. Place a disc in the front left compartment of the disc tray. This is Disc 1.

NOTE: When you enter the program mode, the disc in the front left compartment of the disc tray is recognized as Disc 1. This feature allows you to insert the first disc, then press NEXT DISC to rotate the tray and conveniently insert two more discs.

4. Press NEXT Disc and insert two more discs, if desired.

#### Entering a Program

NOTE: For CDs with more than 20 tracks. You can only Program tracks numbered 1 - 20 into memory.

1. Press NEXT DISC to select the disc that contains the first track you want to program. The selected disc number flashes to confirm your selection.
2. Press SKIP >>| or SKIP| << to select the track you want to play from the selected disc. The track number is displayed before the P.
3. Press PROGRAM to store the selected track.
4. Repeat Steps 1, 2 and 3 to store additional tracks, up to a maximum of 32.

NOTE: To help keep track of which disc is placed in which compartment, you can leave the disc tray open while you enter the program.

5. When you program all the tracks you want to play, press STOP to store the program.

#### Playing the Program

1. To play the program, press PROGRAM, then press PLAY/PAUSE. The system displays PROGRAM while the program is playing.
2. To move forward within a programmed sequence of tracks, press SKIP >> |.
3. Play continues to the end of the last programmed track. The CD changer then stops.
4. To play the program again, press PROGRAM to reactivate the program, then press PLAY/PAUSE.
5. Press STOP to stop play. The program is deactivated (but still stored in memory for your use) and the CD changer plays tracks in normal sequence.

#### CANCELLING A PROGRAM

The program can be cancelled in three ways:

Turn off power.

When the CD changer is stopped, press and hold PROGRAM and press STOP.

Set FUNCTION to TUNER or TAPE.

#### REPEATING DISCS AND TRACKS

The repeat function allows you to repeat play of a selected track, of an entire disc, of a programmed set of tracks, or of all discs in the disc tray. Pressing REPEAT moves the system through the following set of options: Repeat 1 (track), Repeat Disc, Repeat All Discs. Repeat function off.

1. To repeat the current track, press REPEAT to select Repeat 1.
2. To repeat an entire disc continuously, press REPEAT to select REPEAT DISC.
3. To repeat a programmed set of tracks, press PROGRAM then REPEAT to select REPEAT ALL.
4. To repeat all discs, press REPEAT to select REPEAT ALL DISC.
5. To cancel the repeat function, press REPEAT until no repeat message appears on the display.

#### PLAYING TRACKS IN RANDOM ORDER (SHUFFLE)

The random function lets you play tracks in random order.

1. Press RANDOM. The system displays RANDOM.  
When activated, the random function applies to all discs in the disc tray.
2. Press RANDOM again to cancel random operation and resume normal playback. RANDOM disappears from the display.

#### COMPACT DISC EDIT FUNCTION

The EDIT button on the CD changer automatically calculates the number of tracks on a selected disc that will fit on a cassette of a designated length. This function prevents running out of room on a tape during recording. Follow the steps below to use the edit function.

1. Insert the cassette you will record onto in Deck A. Refer to ("Playing Cassette Tapes.")
2. Set FUNCTION to CD/AUX.
3. Insert the disc you want to record from and select it using NEXT DISC.
4. Press STOP to stop playing the disc, if necessary.
5. Press EDIT. The display flashes 46:00 as the preliminary setting for total playing time of the cassette. (Total playing time includes both sides.)
6. To change the cassette's total playing time, press SKIP >>| or |<<. The options available are 46, 54, 60, and 90 minutes - the standard recording times for blank cassettes.
7. To adjust a selected standard recording time in one-minute increments, press SEARCH >> or <<.
8. Press EDIT. The CD changer displays the total playing time of tracks that can fit onto Side A of the cassette.
9. Press RECORD to start recording.

NOTE: The cassette in Deck A advances to 8 seconds (to prevent recording onto the tape's leader. After 8 seconds, the disc begins playing and is recorded onto the cassette.

When the selected tracks have been played, the CD changer pauses and displays B to indicate that it is ready to play the tracks that fit on side B of the cassette. The tape deck stops automatically at the end of Side A.

10. Press STOP/EJECT and turn over the tape so Side B faces you.
11. Press RECORD to start recording.

NOTE: The cassette advances for 8 seconds, then the disc begins playing and is recorded onto the cassette. The CD changer automatically stops when it has played the tracks that will fit on Side B of the cassette.



## CD MUSIC SCAN

Push MUSIC SCAN once to begin music scan. The CD player plays the first 10 seconds of each track on the disc. If only one disc is in the changer, music scan stops at the end of the disc. If two or three discs are in the changer, music scan continues until all tracks on all discs have been scanned. During music scan the track number being played flashes on the display.

To stop music scan on a particular track, push MUSIC SCAN again. Scanning stops and normal playback begins on that track.

## PLAYING CASSETTE TAPES

You can play prerecorded cassette tapes in either Deck A or Deck B.

For normal single cassette playback on either Deck A or Deck B:

1. Set FUNCTION to TAPE.
2. Press POWER to turn on the system.
3. Press STOP/EJECT to open the cassette door.
4. Insert a prerecorded cassette into the slots on the door with the exposed tape facing down and the full reel on the left side. Close the cassette door.
5. Press PLAY to begin playback.
6. Adjust VOLUME, BALANCE, and the graphic equalizer controls as desired.
7. If excess tape hiss is heard, set NOISE REDUCTION to ON.
8. Press F. FWD or REWIND to advance or rewind the tape rapidly if necessary. Press STOP/EJECT to cancel fast forward or rewind.
9. Press PAUSE to stop the tape temporarily. Press again to release PAUSE and resume playback.
10. Press STOP/EJECT to stop tape playback. Press again to open the cassette door and remove the cassette.
11. To play the other side, turn the cassette over, reinsert it into the door with the exposed tape facing down, close the door and press PLAY again.

## AUTOMATIC END OF TAPE SHUTOFF

When the end of the tape is reached in play, record, fast forward, or rewind modes PLAY is released and the tape motor turns off. This extends the motor life and prevents excess wear on the mechanism and on the cassette tapes.

## CONSECUTIVE PLAYBACK OF TWO CASSETTES

Consecutive playback operates only from deck B to Deck A, so place the

cassette you want to hear first in Deck B.

1. Set FUNCTION to TAPE.
2. Press POWER to turn on the system.
3. Press STOP/EJECT on both decks and insert prerecorded cassettes in both doors, exposed tape down, full reels on the left. Close both doors.
4. Press Deck B PLAY and then the PAUSE and PLAY of Deck A.
5. Playback begins on Deck B. When the tape in Deck B ends, the tape in Deck A automatically begins.
6. When the tape in Deck A ends, Deck A PLAY releases and the tape motor turns off automatically.
7. To play the other sides, repeat Steps 3 and 4 above.

#### LISTENING to an AUXILIARY SOURCE

1. Connect the auxiliary source such as an optional phono, CD player or another tape deck to the AUX/PH jacks on the system's back panel.
2. Press POWER to turn on the system.
3. Set FUNCTION to CD/AUX.
4. Operate your auxiliary device according to its instructions.
5. Adjust the VOLUME, BALANCE, and graphic equalizer controls on the system as desired.
6. When you finish listening, turn off the system, and the auxiliary source.

NOTE: You can leave the auxiliary source connected to the system indefinitely.

#### RECORDING CASSETTE TAPES - AUTO LEVEL CONTROL (ALC)

This system has a special ALC circuit which automatically controls the recording volume to give you distortion-free recordings. The VOLUME, BALANCE, and graphic equalizer controls have no effect on the recorded sound. Adjusting these controls before or during recording only affects the sound heard through the speakers or headphones.

#### BLANK TAPES FOR RECORDING

For the best results, use only well known brands of good quality blank tape. Use normal bias tape only. Do not use chrome (CrO<sub>2</sub>) or metal tape formulations. Also, the use of 120 blanks is not recommended. These thinner tapes are more likely to stretch and may become tangled in the mechanism.

#### RECORDING FROM THE RADIO

NOTE: To record from the radio make sure an external microphone is not connected or MIC MIXING volume is set to minimum.

1. Tune to the radio station you wish to record. Refer to "Listening to the Radio" if necessary.
2. Set HI-SPEED DUBBING to NORM.
3. Press STOP/EJECT on Deck A to open the cassette door.
4. Insert a blank cassette or one you want to record over into the slots on the Deck A door with the exposed tape down and full reel on the left. Close the cassette door.

NOTE: Some blank cassettes have an unrecordable leader section at the beginning of the tape. If your cassette has this clear leader portion, you should advance the tape until you pass the clear portions so you can begin recording immediately. If you do not bypass the clear leader portion, you might miss the first 8 to 10 seconds of the material you are trying to record.

5. Press RECORD to begin recording. The RECORDING indicator lights, the tape begins to move, and the radio program you selected is recorded directly onto the tape.
6. Adjust the VOLUME, BALANCE, and graphic equalizer controls as desired to control the sound coming from the speakers. These adjustments do not affect the sound recorded on the tape.
7. Press PAUSE, if desired, to temporarily stop the tape and avoid recording unwanted material such as commercials. Press again to release PAUSE and continue recording.
8. When you finish recording, press STOP/EJECT once to stop the tape. Press it again to open the cassette door and remove the tape. If the tape ends before you press STOP/EJECT, the tape automatically stops.
9. To record onto the other side of the tape, turn the cassette over so the full reel is again on the left, reinsert it in Deck A, close the door, and press RECORD again. If you want to protect the material you recorded from accidental erasing, refer to "Protecting Cassettes from Accidental Erasing."

#### RECORDING FROM THE CD CHANGER

NOTE: To record from a CD make sure an external microphone is not connected or MIC MIXING volume is set to minimum.

To record from a CD, see "Compact Disc EDIT Function."

#### RECORDING FROM CASSETTE TO CASSETTE (DUBBING)

NOTE: To copy a tape make sure an external microphone is not connected or MIC MIXING volume is set to minimum.

You can copy tapes directly from Deck B to Deck A at normal speed,

or if you are in a hurry, you can select high speed dubbing to reduce the recording time.

IMPORTANT: When recording from a prerecorded cassette to a blank cassette, be sure to use a blank that has sufficient recording time on each side to accommodate the material on the prerecorded tape.

1. Set FUNCTION to TAPE.
2. Set HI-SPEED DUBBING to NORM.
3. Press POWER.
4. Press STOP/EJECT on both decks to the open cassette doors.
5. Insert the blank cassette into Deck A, exposed tape down, full reel on the left. Close Deck A's door.
6. Press Deck A's PAUSE key first and then Deck A's RECORD key.
7. Insert a prerecorded cassette into Deck B, exposed tape down, full reel on the left. Close Deck B's door.
8. Press Deck B's PLAY key. Deck A's PAUSE key automatically releases and both tapes begin to move. The material on the prerecorded cassette Deck B is copied directly onto the cassette in Deck A.

You can adjust the VOLUME, BALANCE and graphic equalizer controls as desired during the recording process. They do not affect the sound being recorded.

You can use Deck A's PAUSE key to temporarily stop the blank tape and avoid recording unwanted passages, if desired.

NOTE: The deck with the shorter tape stops first. The other deck continues to run until the tape ends or until you press STOP/EJECT.

#### HIGH-SPEED DUBBING

High-speed dubbing works the same as normal speed dubbing except that HI-SPEED DUBBING is set to HIGH. The high-speed dubbing indicator lights and both tapes run at high speed to reduce the dubbing time. Since the sound from the speakers is distorted during High-speed dubbing (similar to playing a phonograph record at the wrong speed), the sound coming from the speakers is automatically reduced during high-speed dubbing.

NOTE: If you do not wish to listen to the tape you are copying, you can set FUNCTION to TUNER and listen to the radio after dubbing begins.

#### Recording from an External Microphone

NOTE: The external microphone is not included. Use a microphone that has a 1/8-inch plug.

1. Set FUNCTION to TAPE.

2. Set HI-SPEED DUBBING to NORM.
3. Press POWER.
4. Insert a blank cassette in Deck A.
5. Connect the external microphone (not included) to the MIX MIC jack on the front panel.
6. When you are ready to begin recording press RECORD on Deck A. All the sounds picked by the microphone are recorded onto your tape.

NOTE: If the external microphone is too close to the speakers, you hear a howling or screeching sound, called feedback. If feedback occurs, move the external microphone away from the speakers.

7. Disconnect the external microphone from the MIX MIC jack when you finish recording.

#### RECORDING FROM AN EXTERNAL SOURCE

The external source such as a turntable, another tape deck, or a CD player must be connected to the AUX/PH jacks on the back panel of the system.

1. Set FUNCTION to CD/AUX.
2. Press POWER.
3. Insert a blank cassette in Deck A.
4. Operate your external source according to its own instructions.
5. When you are ready to begin recording, press RECORD on Deck A. The material from the external source is recorded directly onto the blank tape in Deck A. Use PAUSE to avoid recording unwanted material, if desired.
6. Press STOP/EJECT when you finish recording.

#### MIC MIXING RECORDING

This unique feature allows you to record your own voice on a blank tape together with the radio or with material from a prerecorded cassette, CD or an external source.

NOTE: To perform mic mixing recording, you must have an external microphone (not included).

1. Connect the external microphone (not included) to the MIX MIC jack on the front panel.
2.
  - a. To record your voice and the radio, follow Steps 1 through 5 under "Recording From the Radio".
  - b. To record your voice and another prerecorded cassette, follow Steps 1 through 8 under "Recording from Cassette (Dubbing)".

- c. To record your voice and the music from a compact disc, follow Steps 1 through 9 under "Compact Disc EDIT FUNCTION".
3. Use the MIC MIXING volume control to adjust the level of the microphone relative to the other material being recorded.  
  
Increasing the MIC MIXING volume increases the volume from the microphone and decreases the volume of the other material being recorded. Decreasing the MIC MIXING volume decreases the volume from the microphone and increases the volume of the other material being recorded.
4. Disconnect the external microphone from the MIX MIC jack when recording is completed.

#### KARAOKE SING-ALONG OPERATION

You can sing-along with the radio or with your favorite cassettes or CDs without making a recording.

1. Connect the external microphone (not included) to the MIX MIC jack on the front panel.
  - a. To sing along with the radio, follow Steps 1 through 7 under "Listening to the Radio."
  - b. To sing along with a prerecorded cassette, follow Steps 1 through 6 under "Playing Cassettes Tapes."
  - c. To sing along with a CD, follow Steps 1 through 5 under "Playing Compact Discs."
  - d. To sing along with another source, set FUNCTION to CD/AUX and operate the external source according to its instructions.
3. Use the MIC MIXING volume control to increase or decrease the volume of your voice relative to the other material.
4. Disconnect the external microphone from the MIX MIC jack after karaoke operation is completed.

#### PROTECTING CASSETTES FROM ACCIDENTAL ERASING

When you make a new recording, any program material previously recorded is automatically erased and only the new recording remains. To safe guard valuable recordings from being accidentally erased, the cassette and the deck are equipped with special devices.

On the back of the cassette there is an erase prevention tab on each side. To prevent accidental erasing, break out these tabs with a screwdriver. If only one side of the tape is to be protected, break out the tab on the left side with the side desired facing you.

To record on a tape in which the tab has been broken, place a piece of adhesive tape over that area.

NOTE: When a tab is broken out, the record button cannot be pressed.

#### AUDIO TIMER OPERATION

The built-in audio timer can be used to turn the radio on and off at any time you select.

You can also program the system to make a tape recording from the radio automatically even if you are not in the room.

1. Press POWER to turn on the system.
2. Set the desired on time and off time. Refer to "Setting the Timer".
3. Set FUNCTION to TUNER.
4. Tune to the radio station you want to hear or record when the system turns on. Adjust the VOLUME and graphic equalizer settings as desired.
5. Press POWER to turn off the system.
6. Set TIMER to ON. The TIMER , ON, OFF, and the clock appear on the display.

At the on time you selected, the system turns on to the radio station selected and plays until the off time. The system then automatically turns off. If you want to make a tape recording by timer, follow Steps 1 through 6 above and then:

7. Insert a blank cassette in Deck A.
8. Press Deck A's RECORD key.

At the selected on time the system turns on and recording begins. It continues until the off time is reached or the tape ends, whichever comes first.

IMPORTANT: If the TIMER selector remains set to ON, the auto on/auto off sequence repeats every 24 hours indefinitely. To resume normal manual operation set the TIMER to OFF.

NOTE: To turn off the system before the selected off time, press SLEEP twice or set TIMER to OFF.

#### WAKE TO TAPE

1. Set the desired on time and off time.
2. Turn off power.
3. Set FUNCTION to TAPE.
4. Insert prerecorded cassette in Deck B (or Deck A) and press PLAY.
5. Set TIMER to on.

## SLEEP TO TAPE

1. Turn off power.
2. Set FUNCTION to TAPE.
3. Insert a prerecorded cassette into Deck B (or Deck A). Press PLAY.
4. Press SLEEP. Adjust the sleep timer if necessary.
5. Adjust the VOLUME and graphic equalizer controls as desired.  
Playback continues until the tape ends or the sleep timer counts down to zero.

**IMPORTANT:** If you sleep to tape, FUNCTION is in the TAPE position. In this case the system can not turn on to the radio the following morning. If the tape ended after you fell asleep and FUNCTION is still set to TAPE, the power turns on at the selected on time, but no sound is heard.

## REMOTE CONTROL OPERATION

The remote control supplied with this system can perform the following operations.

Power Button	Press once to turn on the system. Press again to turn off the system.
E Bass Button	Press once to turn on E Bass and provide extra bass response. Press again to turn off E Bass. The E BASS indicator on the front panel turns on when E Bass is on.
Sleep Button	Press to activate the sleep to radio function and to adjust the amount of sleep time before automatic turn off.
M. Scan / (Next Disc) Button	In the tuner mode, press once to tune up the band to the next preset station. The tuner stops on that station until the button is pressed again. If the button is held down, the tuner plays each preset station for 5 seconds until you release the button. If in the CD mode, press to select the desired CD. The selected CD flashes on the CD display.
Band / >>  (SKIP FWD) Button	In the tuner mode, push once to change the band from FM to AM, or AM to FM. In the CD/AUX mode, press to skip to the next higher track.
Tuning Up/ >   (Play/Pause) Button	In the tuner mode, press to tune the radio up the band to the desired station. In the CD mode, press to start CD playback. Press during play mode to stop playing a disc (Pause). Press during pause mode to resume playing the disc again.
Tuning Down/ Stop Button	In the tuner mode, press to tune the radio down the band to the desired station. In the CD mode,



press to stop CD playback.

Volume Buttons                    Press to increase or decrease the volume.

To operate the remote, point it at REMOTE SENSOR ion the system's front panel and push the appropriate button on the remote handset.

NOTES: Batteries must be properly installed in the handset for the remote to function. Refer to "Remote Control Preparation".

The remote works best within a range of 15 feet from the system on an angle of 30 degrees or less.

The remote works best in normal room light conditions or in darker rooms. If too much sunlight is present, the remote might not work properly.

If the remote's operation becomes intermittent, change the batteries before seeking service.

(CJD/all-06/24/94)