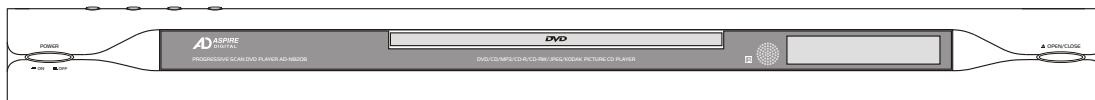




OWNER'S MANUAL

MODEL:AD-N820B



N Please read all warnings and instructions carefully before operating this unit.

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



The symbol for CLASS II (Double Insulation).

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE, DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET, REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

CAUTION: When replace the direct plug in power supply or a separable, cord-connected power supply, the replacement must be exact duplicate, or one recommended by the manufacturer.

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

This Digital Video Disc player employs a laser System.

Use of controls, adjustments or the performance of procedures other than those specified may result herein hazardous radiation exposure. To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open and interlocks defeated.

DO NOT STARE INTO BEAM.

FCC NOTICE:

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 Rule. 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.



This product incorporates copyright protection technology that is protected by method claims of certain U. S. Patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture.

In case of 525 or 625 progressive scan picture problems, it is recommended that he used switch the connection to the "standard definition" output. If there are questions regarding our TV set compatibility with this model 525p and 625p DVD player, please contact our customer service centre.



Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. Copyright 1992-1997 Dolby Laboratories. All rights reserved.

NOTE:

There are a clear film on the front panel in order to prevent panel from scratch and dirt. If no need, just tear it out from the corner.

CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS GIVEN IN THIS MANUAL AND THOSE MARKED ON THE UNIT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing. This unit is fully transistorized and does not contain any parts that can be repaired by the user.

DO NOT REMOVE THE CABINET COVER OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

1. Read these manuals

After unpacking this product, read the manual carefully. Follow all the operating and other instructions.

2. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure operation of the product. These protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product a Bed, sofa, rug or other.

3. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

4. Water and Moisture

Do not use this product near water for example, near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement or near a swimming pool.

5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a dry cloth for cleaning.

6. Power-cord protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

7. Lightning

For added protection for this product during storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power-line surges.

8. Object and Liquid entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

9. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

10. Accessories

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with

the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

**11. Disc tray**

Keep your fingers well clear of the disc tray as it is closing. Neglecting to may cause serious personal injury and damage to the product.

12. Burden

Do not place a heavy object on or step on the product. The object may fall causing serious personal injury and serious damage to the product.

13. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a) When the power-supply cord or plug is damaged.
- b) If liquid has been spilled, or objects have fallen into the product.
- c) If the product has been exposed to rain or water.
- d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- e) If the product has been dropped or damaged in any way.
- f) When the product exhibits a distinct change in performance - this indicates a need for service.

14. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

15. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

16. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

NOTES ON HANDLING

- The top and rear panels of the unit may become warm after a long period of use. This is not a malfunction.
- When the unit is not use, be sure to remove the disc and turn off the power.
- If you do not use the unit for a long period, the unit may not function properly in the future. Turn on and use the unit occasionally.
- Do not place foreign objects on the tray.

LOCATION

- Do not locate the unit in places such as:
- Near heating devices or in enclosed car.
 - High temperature (40° C or higher) or high humidity (90% or higher).
 - Dirty places.
 - Avoid direct exposure to sunshine

DISTURBANCE

When you place this unit near a TV, radio or VCR, the playback picture may become poor and the sound may be distorted. In this case, place the unit away from the TV, radio or VCR.

NOTES ON MOISTURE CONDENSATION

The pickup may be condensed with water under the following situation.

- When you bring the unit directly from a cold place to a warm place.
- When you use the unit in a room where you just turned on the heater, or a place where the cold air from the air conditioner directly hits the unit.
- During the summer, when you use the unit in a hot and humid place just after you move the unit from an air conditioned room.
- The room is vaporous or damp.

If condensation exists, the unit will not operate properly. Remove the disc, connect the power cord of the unit to the wall outlet, turn on the unit, and leave it for two or three hours. After two or three hours, the unit will have warmed up and evaporated any moisture. Keep the unit connected to the wall outlet and moisture condensation will seldom occur.



ON HANDLING DISCS

- Do not touch the playback side of the disc.
- Do not attach paper or tape to disc.



ON CLEANING DISCS

- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the centre outwards with a soft cloth. Always keep the disc clean.



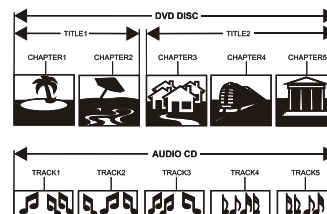
- If you can not wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
- Do not use any type of solvent such as thinner, benzine, commercially available cleaners or antistatic spray for vinyl Lps. It may damage the disc.

ON STORING DISCS

- Do not store discs in a place subject to direct sunlight or near heat source.
- Do not store discs in place subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing object on discs outside or their case may cause warping.









STRUCTURE OF DISC CONTENTS

Normally, DVD discs are divided into titles, and the titles are sub-divided into chapters. Audio CD are divided into tracks.



Each title, chapter, or track is assigned a number, which is called title number, chapter number or track number respectively. There may be discs that do not have these number.

The following discs can be played:

DISCS	LABEL	CONTENTS	DISCS	LABEL	CONTENTS
DVD VIDEO		Audio +Video (moving picture)	WMA		Audio
AUDIO CD		Audio	CD-R		Audio or Video
JPEG		Video(picture)	CD-RW		Audio or Video
MP3	MP3	Audio	CD+G	CD+G	Audio
KODAK CD		Video(picture)	HDCD		Audio

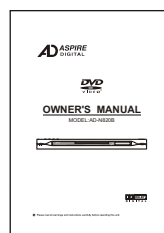
- Discs than those listed above can not be played.
- Non-standardized discs, even if they may be labeled as above can not be played.
- The performance of recorded disc is depend on the method and quality of disc-burning. In some cases, the disc may not be played.

ACCESSORIES

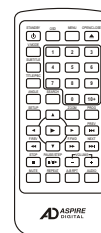
- Audio/Video cable 1
- Remote control 1
- Owner's manual 1



Audio/Video cable

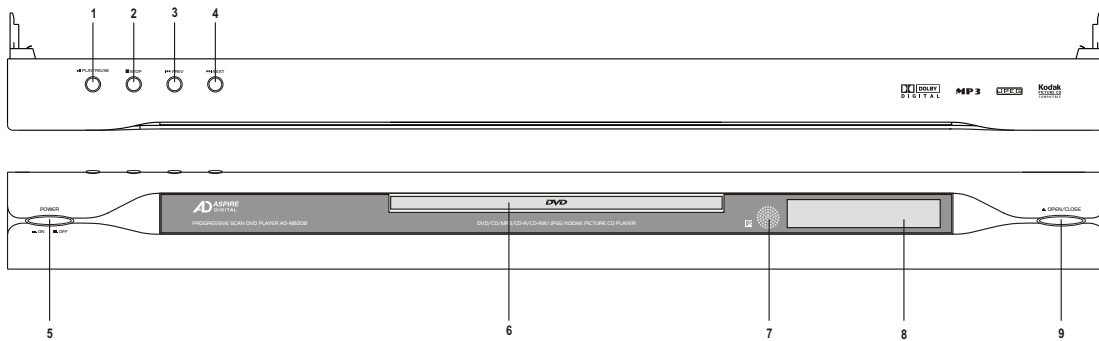


Owner's manual



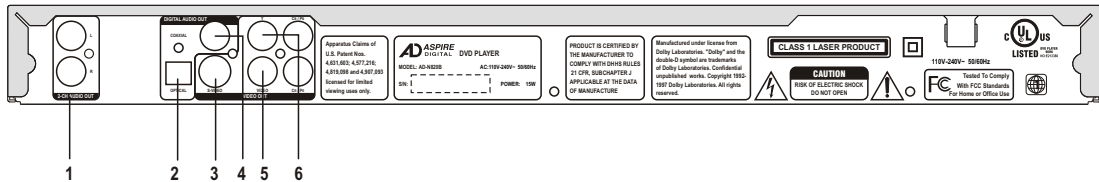
Remote control

FRONT PANEL



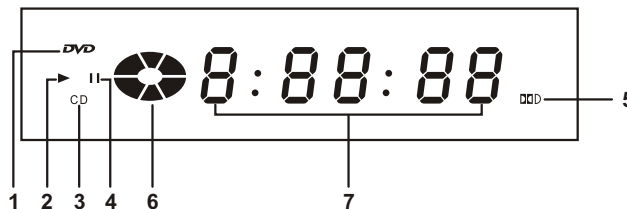
- | | |
|-----------------|--------------------------|
| 1. PLAY/PAUSE | 6. TRAY |
| 2. STOP | 7. REMOTE CONTROL SENSOR |
| 3. PREVIOUS | 8. LED SCREEN |
| 4. NEXT | 9. OPEN/CLOSE |
| 5. POWER SWITCH | |

REAR PANEL OUTPUT



- | | |
|-------------------------|---------------------------|
| 1. 2 CHANNELS OUTPUT | 4. COAXIAL OUTPUT |
| 2. OPTICAL FIBRE OUTPUT | 5. VIDEO OUTPUT |
| 3. S-VIDEO OUTPUT | 6. Y, CB/PB, CR/PR OUTPUT |

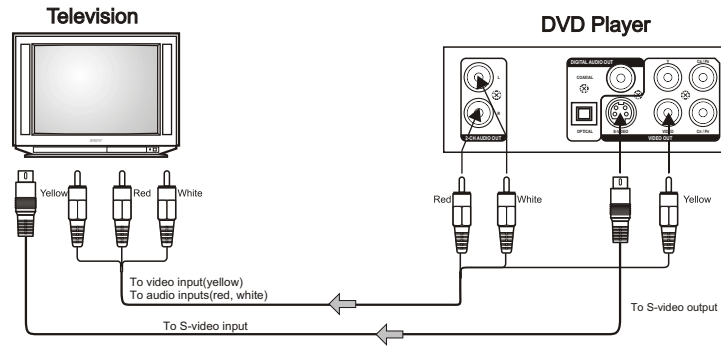
LED DISPLAY of DVD



- | | |
|-----------------------|------------------------------|
| 1. DVD disc indicator | 6. Rotate playback indicator |
| 2. Play discplay | 7. Multi-funcional indicator |
| 3. CD in display | (indicates operating status |
| 4. Pause display | or messages, etc.) |
| 5. Dolby flag | |

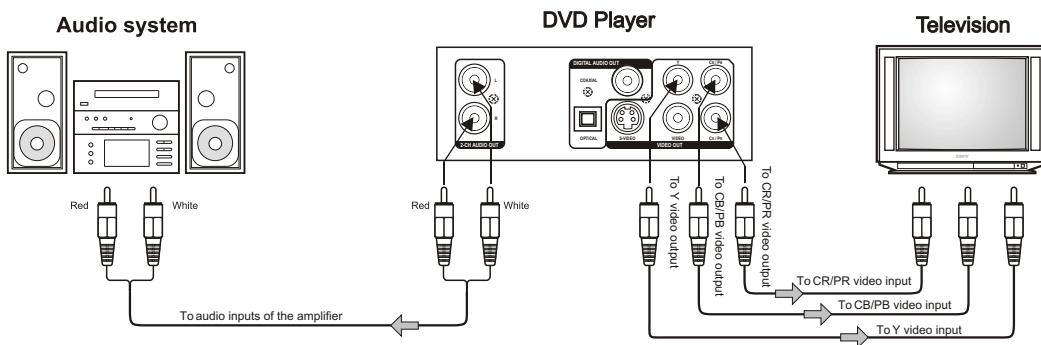
BASIC CONNECTION

● **Connecting to a TV with Audio/Video cable**

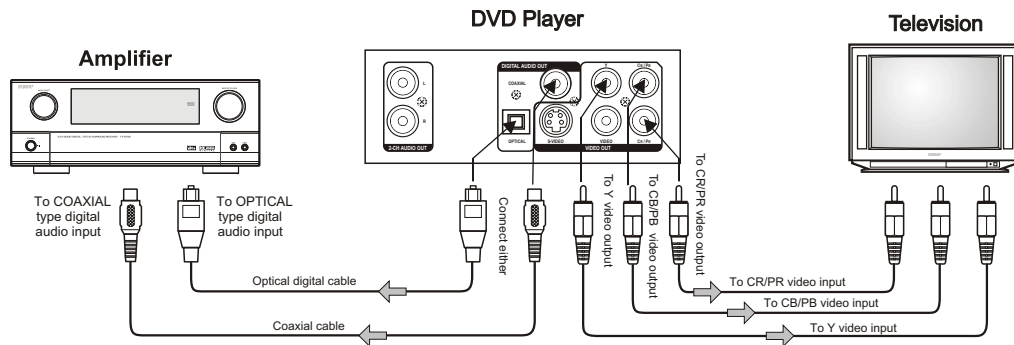


If the TV has an S-video input, connect the DVD player with an S-video cable.
When using an S-video cable, do not connect the yellow video cable.

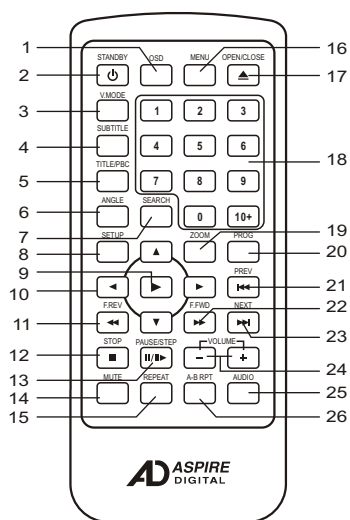
● **Connecting to a audio system and TV equipped with YUV video input**



● **Connecting to an amplifier equipped with a digital audio input and TV**



REMOTE CONTROL



Function	Function
1. OSD(On Screen Display)	14. MUTE
2. STANDBY	15. REPEAT
3. V.MODE	16. MENU
4. SUBTITLE	17. OPEN/CLOSE
5. TITLE/PBC	18. DIGITS AND 10+ BUTTONS
6. ANGLE	19. ZOOM
7. SEARCH	20. PROGRAM
8. SETUP	21. PREVIOUS
9. ENTER/PLAY	22. FAST FORWARD
10. CURSOR → LEFT ↕ RIGHT	23. NEXT
11. FAST REVERSE	24. VOLUME+/(Volume control)
12. STOP	25. AUDIO
13. PAUSE/STEP	26. A-B REPEAT

Loading Batteries

1. Open the cover.
2. Insert batteries.
Make sure to match the + and - on the batteries to the marks inside the battery compartment.
3. Close the cover.



Notes on batteries

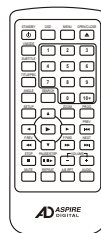
- Do not insert batteries into the remote control in the wrong direction.
- Do not charge, heat, open, or short-circuit the batteries. Do not throw batteries into a fire.
- If the remote control does not function correctly or if the operating range becomes reduced, replace all batteries with new ones.

Operating With The Remote Control



With about 7m (23 feet)

Distance: About 7m (23 feet) from the front of the remote sensor.
Angle: About 30° in each direction of the front of the remote sensor.



Do not expose the remote sensor of the DVD player to a strong light source such as direct sunlight or other illumination. If you do so, you may not be able to operate the DVD player via the remote control.

Notes on the remote control

- Direct the remote control at the remote sensor of the DVD player.
- Do not drop or give the remote control a shock.
- Do not leave the remote control near an extremely hot or humid place.
- Do not spill water or put anything wet on the remote control.
- Do not open the remote control.

Preparations

- When you want to view a disc, turn on the TV and select the video input connected to the DVD player.

Basic playback

1. Press POWER switch on the front panel to ON, the DVD player turns on, the TV screen will display the start logo and DVD indicator light. If a disc is already in the tray, it will begin to play once the power is on.
2. Press OPEN/CLOSE ▲ to open the disc tray, place a disc on the disc tray.
 - There are two different disc sizes. Place the disc in the correct guide on the disc tray. If the disc is out of the guide, it may damage the disc and cause the DVD player to malfunction.
 - Do not place a disc which is unplayable in this DVD player.
3. Press OPEN/CLOSE to close the disc tray, the playback will automatically start.
 - Some discs may not playback automatically, you can press ENTER/PLAY button to start playback.
4. Some discs may start playback with a menu, use the cursor button on the remote control to select menu options and press ENTER/PLAY to start, or press digits to select a menu options directly.

Stop playback

1. Press STOP ■ button to go to stop mode, the TV screen will show the start logo. As some disc the player can recall the location where stopped, such as DVD.
2. Press ENTER/PLAY to playback to resume playback from the location where playback is stopped or from the beginning of the disc.
3. Press STOP twice to stop completely.

Previous and Next

During playing, press PREV ◀◀ key can back to start of this chapter, then each press this key will skip a chapter still the start of the disc. Each press of NEXT ▶▶ key during playing will skip the current chapter and play the next one.

Fast forward and Fast reverse

1. Press F.FWD ▶▶ to fast forward through the disc. Each time the F.FWD ▶▶ button is pressed, the fast forward motion speed changes.
2. Press ENTER/PLAY to resume normal playback.
3. Press F.REV ◀◀ to fast reverse through the disc. Each time the F.REV ◀◀ button is pressed, the fast reverse motion speed changes.
4. Press ENTER/PLAY to resume normal playback.

Pause/Step playback

1. Press PAUSE/STEP II/III first time to pause playback (still mode). The sound will be muted during still mode.
2. Press PAUSE/STEP II/III continuous to single step forward to the next frame in the video.
3. Press ENTER/PLAY resume normal playback.

NOTES:

1. "⊘" may appear on the TV screen during operation. A "⊘" means that the operation is not permitted by the unit or the disc.
2. This unit controlled by CPU, under setting mode, there may be screen save, press any key to activate the unit.

IMPORTANT NOTE:

ALL DESCRIBING FUNCTION IS FOR DVD DISCS. IF YOU PLAY OTHER FORMAT DISC, THE OPERATION AND DISPLAY ON SCREEN WILL BE DIFFERENT.

OSD

Press this button and the screen will display some information about disc, such as : " Title Elapsed " , " Title Remain " , " Chapter Elapsed " , " Chapter Remain " and " Display Off " .

V.MODE

This button can set VIDEO output among "CVBS", "YUV" or "P-Scan".

Note: The screen disappear when press this button, press this button continuously until the screen turn normal.

SUBTITLE

Press this button and the screen will display "SUBTITLE 01/XX XXXXX", "01" indicates the ordinal number of this language; "XX" indicates total number of language; "XXXXXX" indicates the language of country. (the number of language depends on disc).

TITLE

According to some DVD discs, press this button will display "Title Menu", the unit will play from the disc head or you can use digits to select tracks preferred. (Depending on DVD)

ANGLE

For discs with this feature, pressing this key to view action from different angles.(Depending on the DVD)

ZOOM

Each time pressed, the picture enlarges. In this mode, you can move the picture with CURSOR button.

SEARCH

Follow this operation :

first	Title 02/10 Time ■: :
twice	Title 02/10 Chapter ■/32
third	Chapter 01/32 Time ■: :

According to operation, you could choose point that you want to play.

VOLUME and MUTE

Press "+" at the right of VOLUME to increase volume, "-" to decrease to volume. The first press of MUTE will display MUTE (no voice), the second press will return to normal playback.

REPEAT

Follow this operation :

first	↺ Chapter
twice	↺ Title
third	↺ All

the fourth pressed will cancel repeat.

MENU

Press this button and the screen will display " Root Menu ", select item according to your preference. (This key is valid to DVD disc possessing multi-layer menu.)

PROGRAM

Press this button and the screen will display info window, press digits button to input the program number what you want, when finished, move the cursor to select the " Start " logo, at this time the unit will start program playback and the screen will display "Program" logo.

If you want to cancel this function, press " STOP " and then press "ENTER/PLAY" .

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