

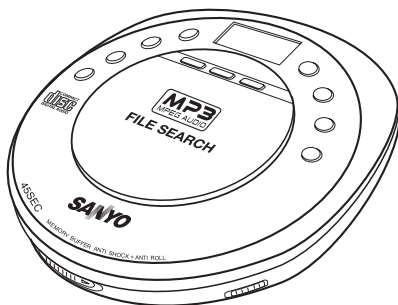
# SANYO

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## INSTRUCTION MANUAL

## CDP-MT500

### Compact Disc Player with MP3 Decoder

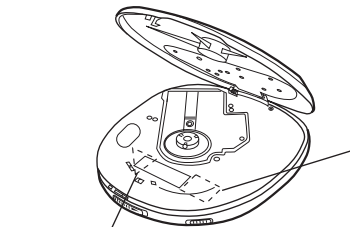


# PRECAUTIONS

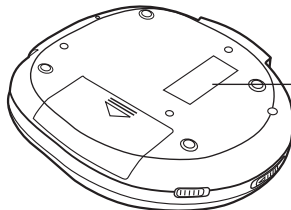
## CAUTION

USE OF CONTROLS OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

THIS PRODUCT SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT QUALIFIED SERVICE PERSONNEL.



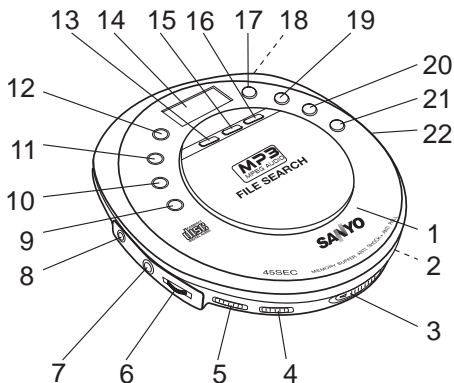
CAUTION - INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL - USYNLIG LASER STRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION, UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARNING - OSYNLIG LASER STRÅLNING NÅR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.
VORSICHT - UNSICHTBARE LASERSTRAHLUNG TRITT AUS, WENN DECKEL GEÖFFNET UND WENN SICHERHEITVERRIEGELUNG ÜBERBRÜCKT IST. NICHT, DEM STRAHL AUSSETZEN.
VARO - AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.



CLASS 1 LASER PRODUCT  
LUOKAN 1 LASERLAITE  
KLASS 1 LASERAPPARAT

- High volume levels can create potentially dangerous situations by drowning out surrounding sounds. Use caution when driving while operating the unit, and obey all applicable laws. Do not play your headset at a high volume level. Hearing experts advise against continuous extended play. If you experience a ringing in your ears, reduce the volume or discontinue use.
- Do not use while bicycling, running or operating a motorized vehicle.
- The rating label is located on the bottom of the unit.
- The apparatus shall not be exposed to dripping or splashing.
- Do not use where there are extremes of temperature (below 5°C or exceeding 35°C).
- Sudden changes in the ambient temperature may cause condensation to form on the optical lens inside the unit. If this happens, take out the disc, leave the unit for about 1 hour, and then proceed to operate.
- Do not insert pins, etc., inside the unit. This unit is equipped with a safety device which automatically turns the laser beam off when the disc compartment is opened. If a pin or other metal object should get inside the unit, however, this safety device may be deactivated.

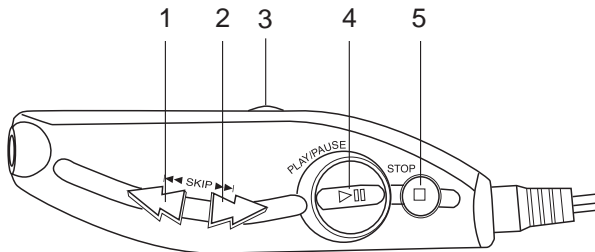
## CONTROLS



1. Disc compartment
2. Function switch (FUNCTION)
3. Open switch (OPEN)
4. Hold switch (HOLD)
5. Bass expander switch (DBBS)
6. Volume control (VOLUME)
7. Headphones socket (PHONES)
8. Line output socket (LINE OUT)
9. Mode/◀ button (MODE/◀)
10. Resume/▶ button (RESUME/▶)
11. Enter/Clear button (ENTER/CLEAR)
12. Programme/Memory button (PROG/MEMORY)
13. Preset tuning down/▼ button (PRESET DOWN/▼)
14. Display
15. Anti roiling shock/Band select/Menu button (ASR/BAND/MENU)
16. Preset tuning up/▲ button (PRESET UP/▲)
17. Search/Skip/Tuning down button (SKIP/TUN -/I◀◀)
18. External DC socket (DC IN 4.5V)
19. Search/Skip/Tuning up button (SKIP/TUN +/▶▶)
20. Power off function/Stop button (POWER OFF/■)
21. Power on function/Play/Pause button (POWER ON/▶/||)
22. Battery compartment lid (back panel)

The buttons on the remote control function in the same way as the corresponding buttons on the unit.

1. Search/Skip/Tuning down button (◀◀)
2. Search/Skip/Tuning up button (▶▶)
3. Volume control (VOLUME)
4. Play/Pause button (PLAY/PAUSE ▶||)
5. Stop button (STOP ■)



## POWER SUPPLY

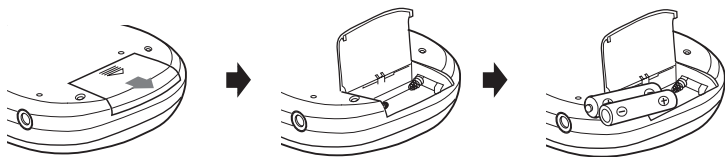
### AC adaptor

Plug one end of the AC adaptor into the DC IN 4.5V socket, then plug the other end into an AC outlet.

- Use only the supplied AC adaptor
- If the AC adaptor is connected. The power supply automatically switches to the AC power source and the installed batteries are disconnected.

### Alkaline batteries

Install two “AA” batteries (not supplied) as shown below. Observe proper polarity.



### Battery replacement

If the rechargeable battery or alkaline batteries are weak and discharged, “Low Battery” appears on the display, then the power automatically turns off. If this occurs, replace the alkaline batteries.

- Dispose of all used batteries safely and in accordance with all applicable laws.

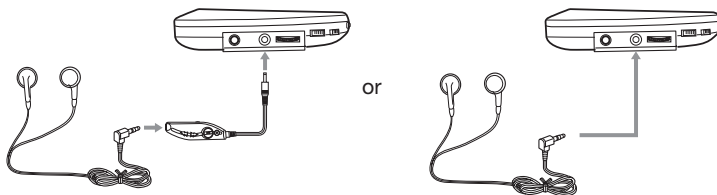
### Note:

When you are not going to use the unit for one month or more, take the batteries out of the battery compartment.

## REMOTE CONTROL AND HANDPHONES CONNECTIONS

- Be sure to reduce the volume before connecting or disconnecting the headphones.

Connect the remote control/headphones or headphones to the PHONES socket.



## INFORMATION

This unit can play back the CD-R/RW that has recorded music data or MP3 files. Before playing back Music CD or MP3 CD, please read the following.

- MP3 CD is the disc that standardized by ISO9660, its file name must include 3-digits extension letters, "mp3".
- The directory and file names of the MP3 CD must be corresponded to the ISO standardized files.
- Single-session disc can be played back.
- Some multi-session discs and mixed discs cannot be played back depending on the recording condition.
- This unit can recognize up to 99 folders or 300 files per disc.  
The CD with 99 folders or 300 files and over is not available to this unit.  
And if CD has a long file name, this unit can't recognize up to 300 files.
- This unit can recognize up to 8 directory trees per disc.
- MP3 CD may not be played in the recorded order.
- Music section in "CD Extra" can be played back, not Data section.
- Music files recorded by "Packet Writing" cannot be played back.

### Notes on disc writing method

When you make MP3 CD by using your PC, set 44.1 kHz of sampling frequency.

There are three basic methods for writing to a CD: "Track-at-Once", "Disc-at-Once", and "Packet Writing".

Music files recorded by "Track-at-Once" or "Disc-at-Once" can be played back on this unit.

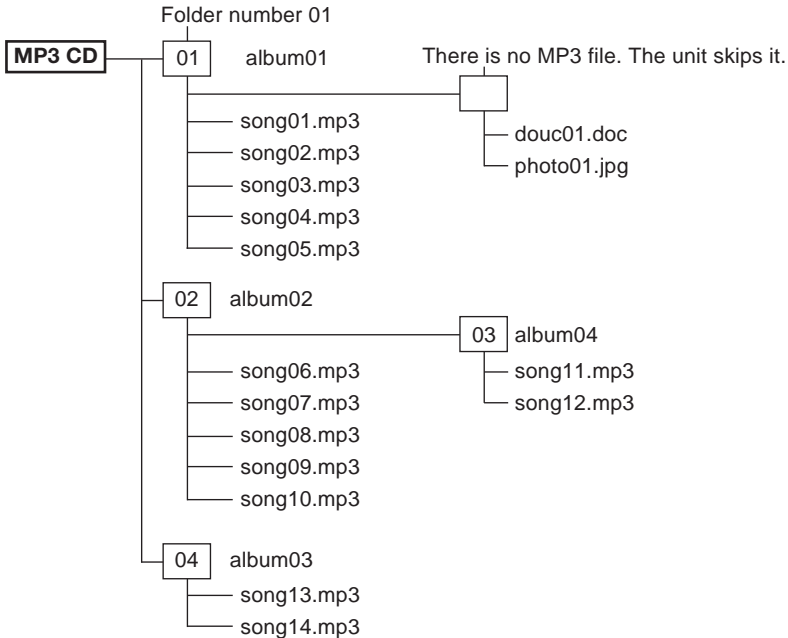
(Note: The unit cannot play back the music files added with "Track-at-Once".)

Music files recorded by "Packet Writing" cannot be played back.



## MP3 CD directory sample:

Playback order: song01 ⇒ song02 ⇒ ... song14



## CAUTION:

- Some MP3 CDs can not be played back depending on the recording conditions.
- The CD-R/RW that has no music data or non-MP3 files can not be played back.
- Do not make an empty folder. It may not work correctly.

## BEFORE OPERATION

### Anti rolling shock function

In the previous anti-shock function, when skips occurred while available memory runs out, then the sound would suffer some interruption.

The new anti rolling shock function is designed to prevent skipping to the greatest extent possible instead of supplementing the skipped portion of the sound.

This is achieved by expanding the memory capacity, and in addition full attention has been given also to increasing the unit's signal reading capability.

Moreover, consideration has been given to eliminating the basic causes of skipping, both from the standpoint of horizontal shock and vertical shock.

Use this function when listening during walk or playing in a car.

When the POWER ON/▶/⏸ button is pressed first time, the anti rolling shock function turns on automatically. "AS" blinks on the display. Then "AS" stop blinks when the buffer memory is full of next 45 seconds music data.



#### Note:

- Press the MENU/ASR button to turn the anti rolling shock function off. "AS" disappears. Press the button again to turn it on.
- Sound may skip or mute for a few seconds when you press the ASR button during play.
- Playing may stop when the unit gets strong shock even when the anti rolling shock function is on.
- When playing back MP3 CD, this function always works even if "AS" doesn't appear. (The function is not cancelled by pressing the ASR button.)

### Dynamic bass boost system (DBBS)

Set the DBBS switch to ON to enhance the bass sound.

### Auto power on function

The power turns on automatically when POWER ON/▶/|| button is pressed.

### Auto power off function

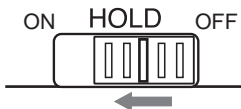
The power turns off automatically after about 60 seconds when all tracks on a disc have been played or when the POWER OFF/■ button is pressed once to stop play.

### Hold function

The HOLD switch disables the buttons from operating to prevent play from starting or stopping due to accidental operation. For normal use, leave the switch in the off position.

To prevent battery drain:

Set the HOLD switch to the on position when carrying the unit in a bag. The POWER ON/▶/|| button will not function even if the button is pressed accidentally. "HOLD" appears briefly on the display.



To prevent play from being interrupted:

Set the HOLD switch to the on position after starting play. "HOLD" appears briefly.

#### **If the operating buttons do not function when pressed ...**

1. Check whether the HOLD switch is on or not.
2. Remove the batteries and/or disconnect the AC adaptor from the unit. Wait a few seconds, then reinstall the batteries or reconnect the AC adaptor.
3. If the buttons still do not function, insert new batteries.

## HANDLING COMPACT DISCS

Use compact discs bearing the symbol shown below. In addition to conventional 12 cm CDs, this unit can be used to play 8 cm CDs without an adaptor.



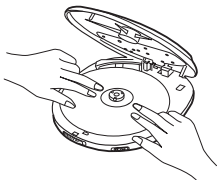
- Do not expose the disc to direct sunlight, high humidity or high temperatures for extended periods of time.
- Discs should be returned to their cases after use.
- Do not apply paper or write anything on the disc surface.
- Handle the disc by its edge. Do not touch the playing surface (glossy side).
- Fingerprints and dust should be carefully wiped off the playing surface of the disc with a soft cloth.  
Wipe in a straight motion from the center to the outside of the disc.
- Never use chemicals such as record cleaning sprays, antistatic sprays or fluids, benzene or thinner to clean compact discs.

The unit will not play a disc that has been inserted upside down, or discs which do not conform to the Compact Disc standard.

## PLAYING A DISC

### BASIC OPERATION (MUSIC CD) (MP3 CD)

- Be sure to reduce the volume before connecting or disconnecting the headphones.
1. Connect the remote control and headphones, then plug the cord from the remote control into the PHONES socket.
  2. Set the Function switch to CD.
  3. Slide the OPEN switch right to open the disc compartment lid.
  4. Hold the disc with the labeled side up and press it onto the pivot until it “clicks” into place.



#### WARNING!

Do not insert your fingers into the opened panel. You may damage the unit or cause personal injury.

Do not allow young children to operate the unit unattended.

To remove the disc

Remove the disc while pressing the pivot.

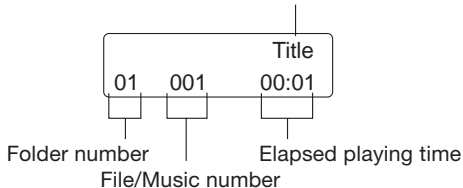
4. Close the disc compartment lid.
5. Press the POWER ON/ ▶/|| button to begin play.

## For Music CD



## For MP3 CD

The music information ("Title", "Artist" and "Album") scrolls.



The track number and elapsed playing time for the current track are displayed.

- Adjust the VOLUME control as desired.
  - To stop play temporarily, press the POWER ON/ ▶/⏸ button, "PAUSE" appears and the elapsed playing time blinks. Press the ▶/⏸ button again to resume.
  - To stop play, press the ■ button once. The total number of tracks and total playing time appear.
- To turn the power off, press the POWER OFF/ ■ button once again.

## Skip play

To skip to track 6 while track 3 is playing, press the SKIP/TUN +/▶▶| button repeatedly until "06" (music CD) or "006" (MP3 CD) appears on the track number section.

To skip back to track 3 while track 6 is playing, press the SKIP/TUN -/◀◀| button repeatedly until "03" (music CD) or "003" (MP3 CD) appears on the track number section.

## Search (forward/reverse)

If the ▶▶| or ◀◀| button is pressed during play, the player will search at high speed in the forward or reverse direction while the button is being pressed. When the button is released, normal play will continue.

## Resume play

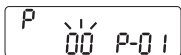
Press the Resume/ ▶ button to return to the beginning of last played track.

## PROGRAMMED PLAY

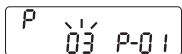
Up to 24 tracks on a disc can be programmed for play in any order.

### Programmed playback (MUSIC CD)

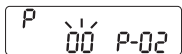
1. Press the PROG/MEMORY button during stop or pause mode.



2. Press the ◀◀ or ▶▶ button to select a track.



3. Press the PROG/MEMORY button.



4. Repeat steps 2 and 3 to programme tracks.
5. To check the programme contents after all tracks have been programmed, press the PROG/MEMORY button repeatedly. The programmed track numbers sequentially appear on the display.
6. Press the ▶/|| button to start programmed play.
  - To cancel programmed play.

## Programmed Playback (MP3 CD)

1. Press the PROG/MEMORY button during stop.

P		MP3
00	000	P-01

2. Press the skip button to select a folder number.

P		MP3
02	000	P-01

3. Press the PROG/MEMORY button. The folder number remains.

P		MP3
02	000	P-01

4. Press the skip buttons to select a track.

P		MP3
02	003	P-01

5. Press the PROG/MEMORY button. It is programmed.

P		MP3
02	003	P-02

6. Repeat steps 2 to 5 to programme track.
7. Follow the same procedure as steps 5 to 6 in the “programmed playback (MUSIC CD)”.



## Changing a programme

### **To add a new track to a programme:**

1. In the stop or pause mode, press the PROG/MEMORY button repeatedly until “00” (MUSIC CD) or “000” (MP3 CD) blinks on the track number section.
2. Select a track as explained above.
3. Press the PROG/MEMORY button.

### **To change a track:**

1. In the stop mode, press the PROG/MEMORY button repeatedly until the track number to be replaced is displayed.
2. Select a track as explained above.
3. Press the PROG/MEMORY button.

### Note:

- Programmed details cannot be partially deleted or inserted.
- The programmes will be lost after turn off the power or the disc compartment is opened.

## ADVANCE OPERATION (MP3 CD)

### FILES Search playback (MP3 CD)

1. Press the ASR/BAND/MENU button during stop, the alphabet will appear in the display.



2. Using the ►, ◀, ▲, ▼ buttons to select the first letter of a folder you would like to listen.
3. Press the ENTER/CLEAR button and a list of folders starting with the selected letter will appear.
4. Using the ►, ◀, ▲, ▼ buttons to select the first letter of a file you would like to listen.
  - Press the PRESET DOWN/ ◀ button to access the lower letters.
5. Press the ENTER/CLEAR button and a list of files starting with the selected letter will appear.
6. Press the RESUME/ ► or MODE/ ◀ button to scroll through the list. When the desired files appears, press the ENTER/CLEAR button and the file will automatically start playing.

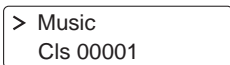
#### Note:

If you select a letter that does not contain any files, "No File" will appear in the display.

### FOLDER SEARCH AND MP3 DIRECTORIES PLAYBACK

1. Press the ASR/BAND/MENU button twice during stop. the first folder will appear in the display as well as its contents.

Example:



2. Press the PRESET DOWN/ ▼ or the PRESET UP/ ▲ button to change folder.
3. Press the RESUME/ ► or MODE/ ◀ button to select a file from the folder, then press the ENTER/CLEAR button and the file will automatically start playback.

## VARIOUS PLAYING MODE

Press the MODE/◀ button repeatedly during stop to select a various play mode available. Each time the button is pressed, the mode changes as shown below:

Repeat one (REP 1) → Repeat all (REP A) → Repeat D (REP D) → Introscan (INTRO) → Random play (RANDOM) → Released

- During programmed play mode, "RANDOM" (random play) can not be selected.
- Repeat D only for MP3 CD play.

Once the desired play mode is displayed, press the ▶/|| button to begin play in that mode.

### REPEAT PLAY

You can play tracks repeatedly in normal or programmed play modes.

#### Single track repeat

Press the MODE/◀ button once during play. "REP 1" appears on the display.

#### All tracks repeat

Press the MODE/◀ button twice during play. "REP A" appears.

- To cancel repeat play, press the MODE/◀ button repeatedly until "REP 1" or "REP A" is disappeared.

### Repeat D

Repeat all tracks in selected folder (MP3 CD only).

Press the MODE/◀ button three times during play. "REP D" appears.

### INTROSCAN

1. Press the MODE/◀ button three times during stop. "INTRO" blinks.
2. Press the ▶/|| button. The first 10 seconds of each track on a disc are played from the first track.
3. When the desired track is playing, press the MODE/◀ button twice. Normal play continues.

### RANDOM PLAY

1. Press the MODE/◀ button four times during stop. "RANDOM" blinks.
  2. Press the ▶/|| button. All tracks on the disc are played in random order.
- To cancel random play, press the MODE/◀ button once.

## USING THE LINE OUT SOCKET

### **To record from the CD player**

Connect the patch cable (not supplied) from the LINE OUT socket on the unit to the LINE INPUT sockets on a cassette recorder.

### **To hear through a pair of speakers**

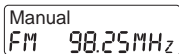
Connect the patch cable (not supplied) from the LINE OUT socket on the unit to the AUX or CD INPUT sockets on a stereo system.

## LISTENING TO THE RADIO

### Automatic/Manual tuning

1. Set the function switch to RADIO.
2. Press the POWER ON/▶/■ button to turn on the radio.
3. Press the ASR/BAND/MENU button to select AM or FM.
4. **Automatic tuning**

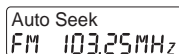
Press the ◀◀ or ▶▶ button for at least 1 second to tune in a station. The unit will scan up or down the band and receive the next receivable station. Press the button again to continue.



Manual  
FM 98.25MHz

### Manual tuning

Press the ◀◀ or ▶▶ button briefly until the desired frequency is displayed.



Auto Seek  
FM 103.25MHz

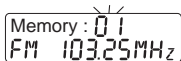
5. To turn off the radio, press the POWER OFF/■ button.

### To preset stations

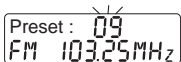
Up to 10 stations for FM band, 10 stations for AM band can be preset.

1. Tune in the station to be preset as described in “Automatic/Manual tuning”.

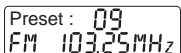
2. Press the PROG button.



3. Press the PRESET DOWN or PRESET UP button on the front panel to select the channel number to be preset.



4. Press the PROG button.  
In this example, "103.25 MHz" FM station is preset on FM channel 9.



### Listening to preset stations

1. Press the ASR/BAND/MENU button to select AM or FM.
2. Press the PRESET DOWN/▼ or PRESET UP/▲ button on the front panel to select the desired channel number.  
The selected channel number appears.

### To receive FM stereo broadcasts

- (S) appears when an FM stereo broadcast is received in the stereo mode.
- If the signal from an FM stereo station is weak and reception is poor, press the MODE/◀ button to change to the mono mode. The reception may be improved, but the sound will be monaural.

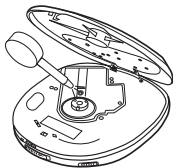
### Antennas

- AM** - This unit has a built-in ferrite bar antenna, which provides adequate reception in most areas. If reception is weak, turn the unit to improve reception.
- FM** - The headphones act as an antenna for FM. Extend the headphone wire for best FM reception.

## CLEANING

### Cleaning the pickup lens

Dust on the pickup lens can lead to erratic operation and interruption of the sound during play.



- To clean the pickup lens, open the disc compartment lid. Blow the dust off of the lens using a camera lens blower (available at most camera stores).
- Do not touch the surface of the lens.

### Cleaning the cabinet

Use a soft cloth moistened with plain lukewarm water and wrung dry. Never use benzol, benzene or other strong chemical cleaners.

## SPECIFICATIONS

### CD player

Channels:	2 channels
S/N ratio:	60 dB
Wow and flutter:	undetectable
Sampling frequency:	44.1 kHz
Pickup light source:	Semiconductor laser
Pickup wave length:	790 nm
Laser output:	0.5 mW (continuous wave max.)

### Tuner

Reception frequency:	FM: 87.5 ~ 108 MHz AM: 522 ~ 1620 KHz
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### General

Terminal impedance:	PHONES: 16 - 32 ohms
Power source:	AC adaptor: AC 230V ~ 240V DC IN: 4.5V (AC adaptor) DC: 3V (R6/AA x 2)
Dimensions:	130 x 29 x 138 mm (W x H x D)
Weight:	Approx. 240g without batteries

Specifications subject to change without notice.





(AU)1AD6P1P2037--A

**SANYO**

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**SANYO Electric Co., Ltd.**  
Printed in China