



CD-700II

Mobile Tuner / CD Player

Owner's Manual
Mode d'emploi
Bedienungsanleitung
Manual del propietario

Nakamichi Mobile Sound System

Nakamichi Mobile Sound System

Before installing or using the unit, please read this manual carefully, to ensure correct operation.

Keep the manual at hand for future reference.

English

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION

- Prolonged exposure to sound at excessive levels has been proven to cause temporary and, in some instances, permanent hearing loss. In order to protect your hearing and your future enjoyment of music, it is strongly recommended that you avoid exposure to excessive listening levels.
- For reasons of traffic safety, you should keep the listening volume to a level which will not mask outside noises while driving.

DANGER - Invisible laser radiation when opened and interlock failed or defeated. Avoid direct exposure to beam.

CAUTION - Use of the controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

LASER DIODE PROPERTIES

MAXIMUM RADIANT POWER: 0.5 mW
 WAVE LENGTH: 780 nm - 815 nm
 EMISSION DURATION: CONTINUOUS

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 Rules. 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.

WARNING - The Federal Communications Commission does not allow any modifications or changes to the unit EXCEPT as that specified by Nakamichi in this manual. Failure to comply with this government regulation could void your authority to operate the equipment.

Complies with FDA radiation performance standards, 21 CFR Subchapter J.

Please record the Serial Number in the space provided below and retain this number.

The Serial Number is located on the top panel of the unit.

Model Number: CD-700II

Serial Number: _____

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Precautions

Important Notice

We thank you for your purchase of this Nakamichi product and trust it will provide you with many years of trouble-free performance.

Should you be using your Nakamichi product in a country other than the one in which it was originally purchased, we ask you note the following:

- 1) The appointed Nakamichi distributor for any given country is responsible for warranty servicing only on units distributed by or through it in that country in accordance with its applicable warranty.
- 2) Should a Nakamichi product require servicing in a country other than the one in which it was originally purchased, the end user may seek to have repairs performed by the nearest Nakamichi distributor, subject to that distributor's local servicing policies, but all costs of repair (parts, labor, transportation) must be born by the owner of the Nakamichi product.

Thank you again for your purchase.

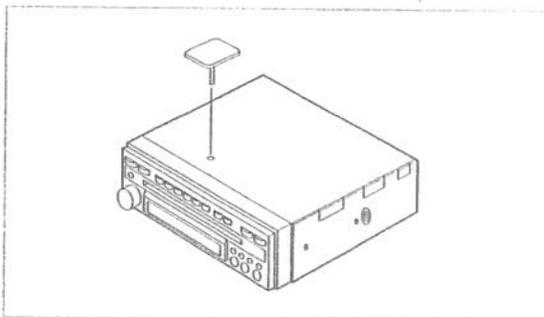
Nakamichi Corporation
Tokyo, Japan

- This unit is designed for use in cars with 12 V negative ground systems only.
- Do not use the unit while the car's engine is not running, to prevent draining the car battery.
- If a fuse has blown, check whether all connections are correct, and replace the fuse only with a fuse of identical type and rating.
- When a closed car is parked in the sun, the temperature inside the car can reach very high levels. If a car is parked outdoors in winter, it may cool down considerably. In such cases, use the unit only after the interior temperature of the car has returned to normal.
- Do not attempt to open the unit or make any internal alterations, since this involves the risk of damage and will void the warranty. Also pay attention that no foreign objects enter the unit.
- Clean the unit only by wiping it with a soft, dry cloth. Avoid using solvents or alcohol-based cleaners.

- Do not leave the remote control unit in a location that may be exposed to direct sunlight, rain, or splashes of water. Otherwise deformation or damage may occur.

Transport lock plate

Before installing the unit, remove the transport lock plate on the top must be removed. Otherwise the mechanism of the unit will not operate. Store the removed lock plate carefully. When the unit is to be transported again, remove a CD and attach the lock plate in the original position, to protect the mechanism from damage.



On CDs

- Never use any CD player accessories such as disc adapters, disc stabilizers, disc protectors, etc.
- Use only discs with a  mark or similar, which indicates compliance with official Compact Disc standards.
- Do not use discs which are not round, such as novelty discs with octagonal or heart shape, because this may lead to damage.
- Some CDs may have a certain amount of flash (flaky plastic deposit resulting from the grinding process) near the center hole or the outer circumference. Remove any such remnants before using the disc, otherwise it may not be possible to eject the CD properly, or skipping may occur.
- CDs bearing labels or stickers with excess glue around the edges or CDs with glue residue from removed adhesive tape, stickers or similar may give problems during eject or cause other damage.
- Recordable CDs (CD-R) recorded on certain recorders cannot be played back with this unit.

Installation

Installation should be performed by an authorized professional installer.

Please consult your dealer regarding details.

Avoid locations which may be exposed to:

- direct sunlight
- hot air from heater outlets
- rain or moisture
- high levels of dust
- high levels of vibration

Verify that the supplied accessories are complete:

- Mounting sleeve (1)
- Metal stay (1)
- M5 hex screw (4)
- M5 flat cross-recess screw (4)
- M5 spring washer (5)
- M5 washer (5)
- M5 nut (1)
- Quick bolt (for rear fastening) (1)
- Masking tape
(for sealing off clearances in the installation location) .. (4)
- Trim panel rim (1)
- Rubber bushing (1)
- 10-pin connector (1)
- 8A spare fuse (for battery) (1)

Precaution concerning side fastening holes

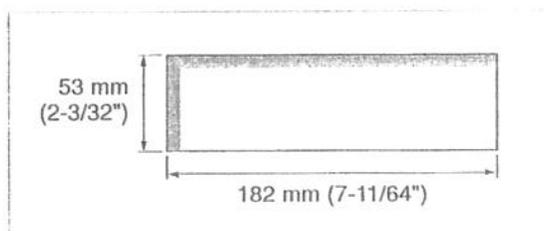
When installing the unit using the side or rear fastening holes, make sure that the fastening screws are not longer than M5x8 (mm). Never use longer screws, because this can cause internal damage to the unit!

Installation angle

Keep the installation angle of the unit within the following range: horizontal (0 degrees) to slight upwards inclination (+30 degrees). If the unit is mounted at a different angle, sound quality may be impaired or damage may occur.

Dashboard installation

The dimensions of this unit correspond to the DIN standard. If the dashboard of the car provides a DIN-sized mounting slot, installation can be accomplished very easily, using the supplied mounting sleeve. If the mounting cutout is smaller than the standard DIN size, it must be enlarged to the following dimensions: Height 53 mm (2-3/32") x Width 182 mm (7-11/64")



1. Insert the supplied mounting sleeve into the mounting slot.
2. Bend the flanges of the mounting sleeve with a screwdriver to fasten it. **(Fig. A)**
3. Fasten the sleeve lock plates to both sides of the unit. If the mounting has sufficient depth, use the long sleeve lock plates, otherwise use the short sleeve lock plates.
4. Make sure that the mounting sleeve is securely fixed, then install the main unit.
5. Use the supplied quick bolt and metal stay to fasten the rear section of the main unit to the car. If a suitable support is provided inside the mounting slot, the rubber bushing can be used instead of the metal stay. **(Fig. B)**
6. After the unit is securely fixed, attach the supplied trim panel rim. **(Fig. C)**
7. To remove the unit, remove the trim panel rim and the metal stay (if it was used for rear support of the unit). Then insert the two screwdrivers(-) into the grooves on the left and right of the unit and pull it out **(Fig. D)**, taking care not to damage the wiring on the rear.

Fig. A

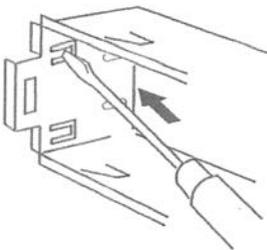
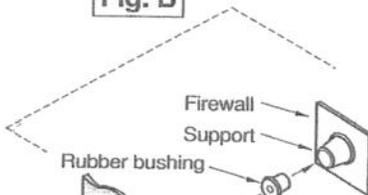
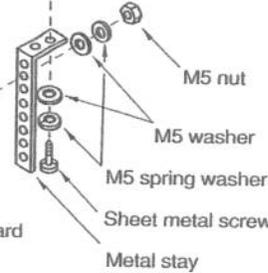


Fig. B

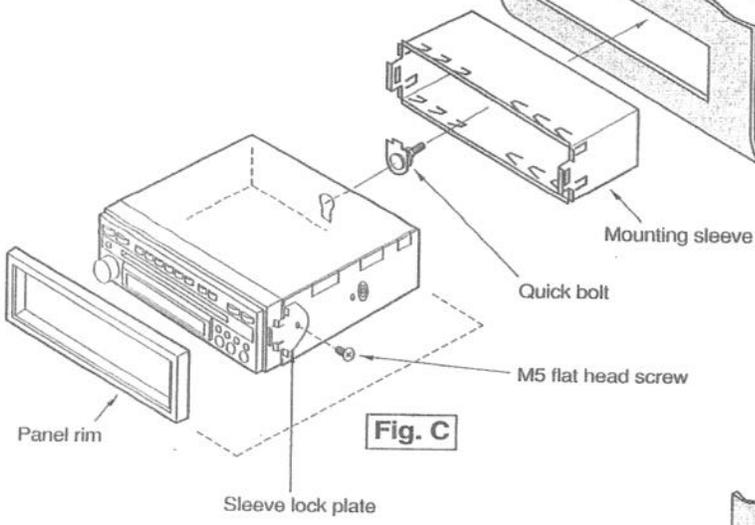


Firewall
Support
Rubber bushing



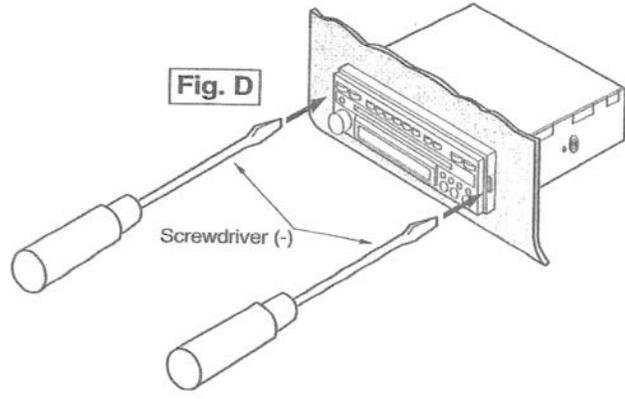
M5 nut
M5 washer
M5 spring washer
Sheet metal screw
Metal stay

Fig. C



Dashboard
Mounting sleeve
Quick bolt
M5 flat head screw
Panel rim
Sleeve lock plate

Fig. D

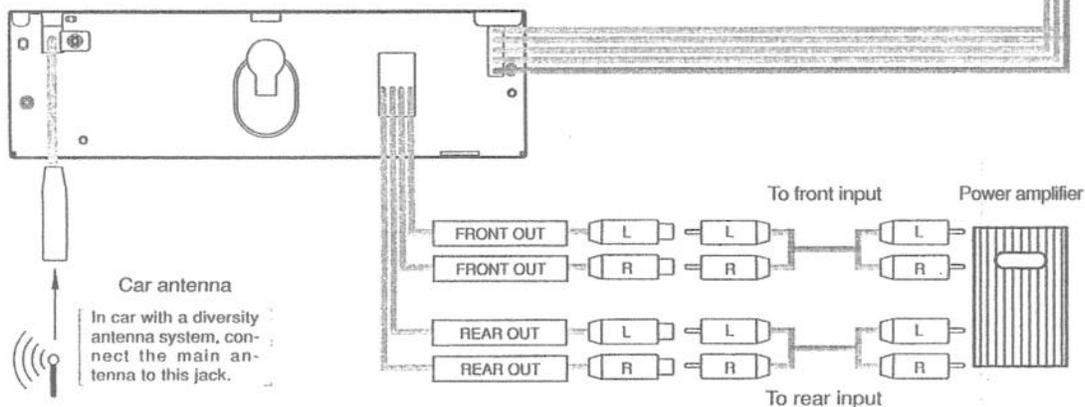
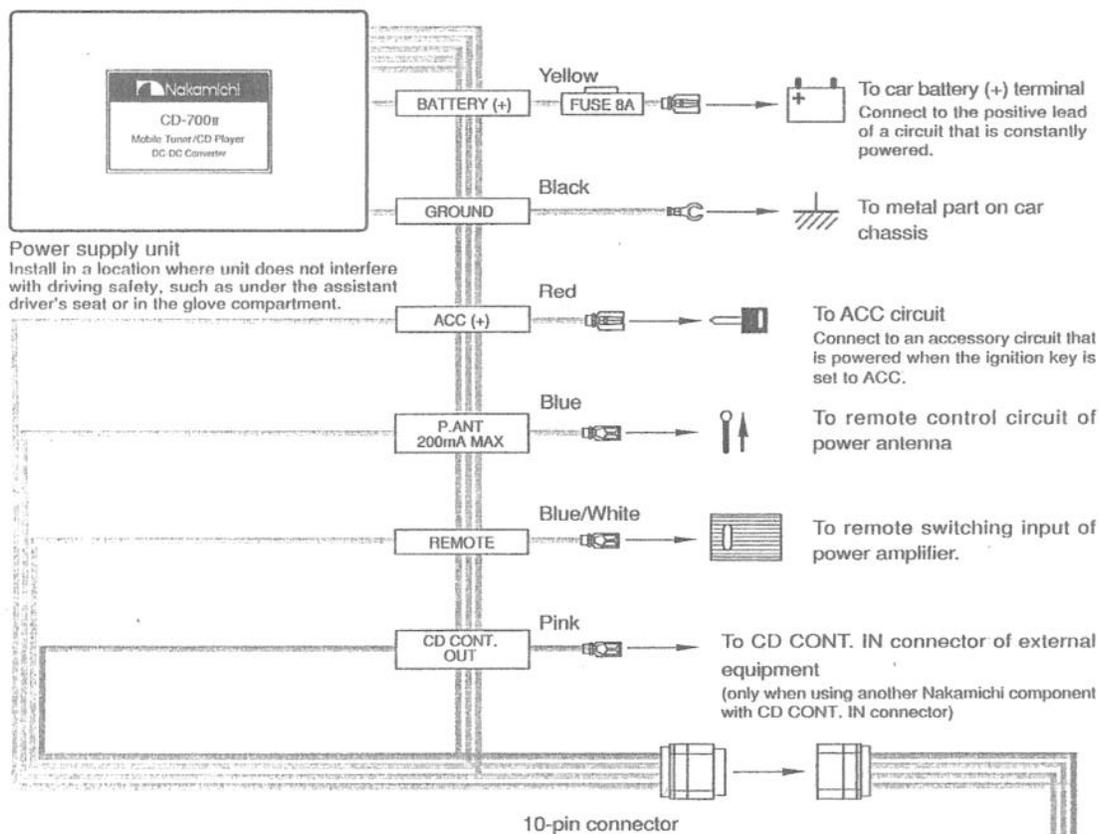


Screwdriver (-)

Connections

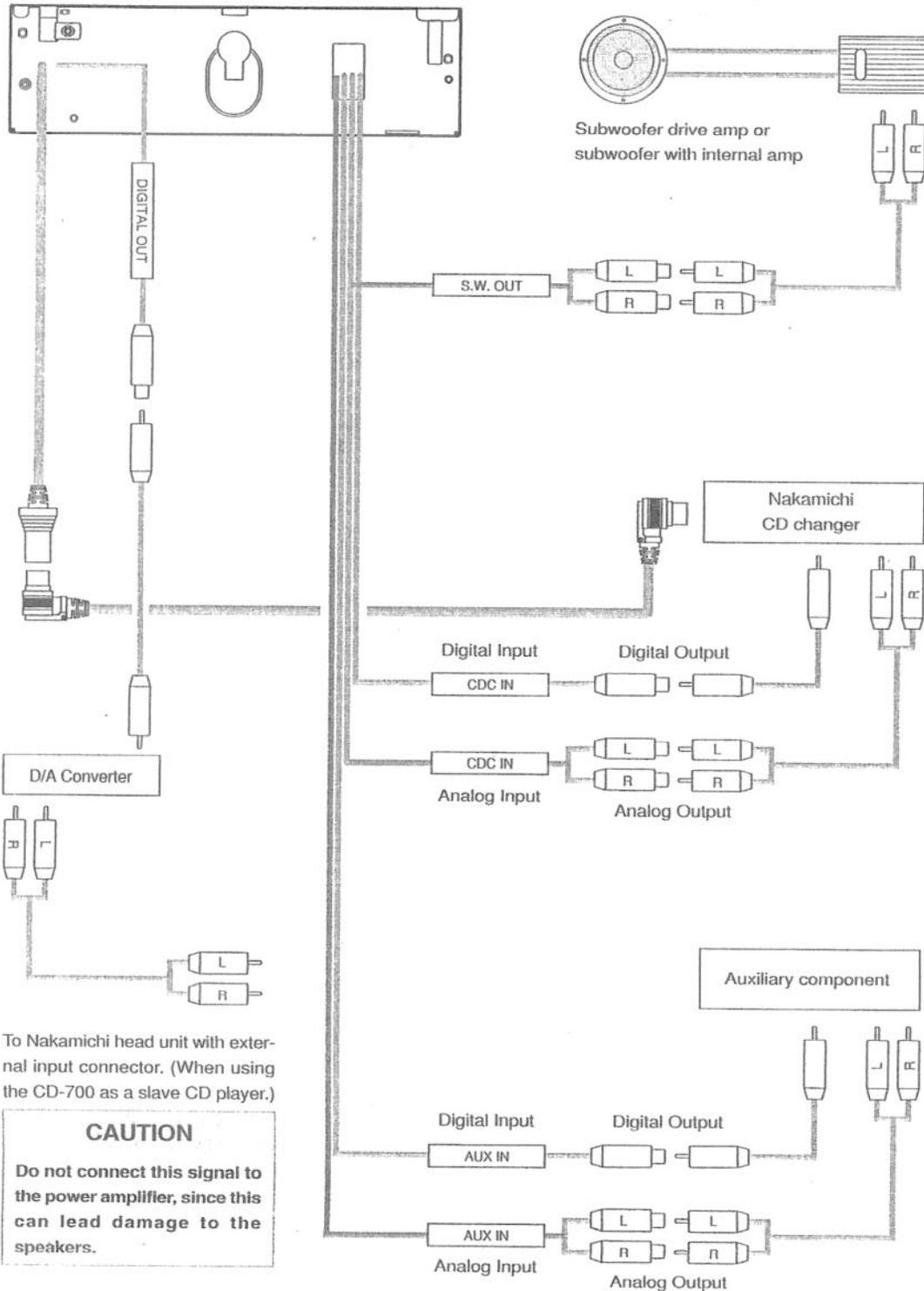
English

WARNING This unit is designed for use in cars with 12 V negative ground systems only. Be sure to remove the negative (-) terminal from your car battery before making any connections, to prevent damage due to short-circuiting.



External Equipment Connections

English



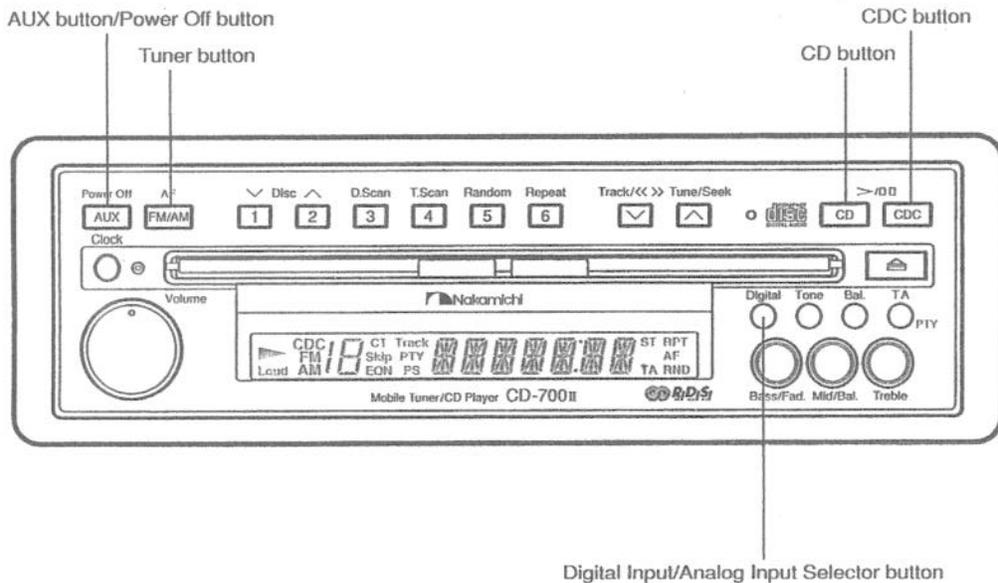
To Nakamichi head unit with external input connector. (When using the CD-700 as a slave CD player.)

CAUTION

Do not connect this signal to the power amplifier, since this can lead damage to the speakers.

Basic Operation Steps

English



Power on/off

1. Pressing the CD button, CDC button, Tuner button, or AUX button turns the unit on and selects the respective source.
2. To turn the unit off, press and hold the Power Off button for at least two seconds.

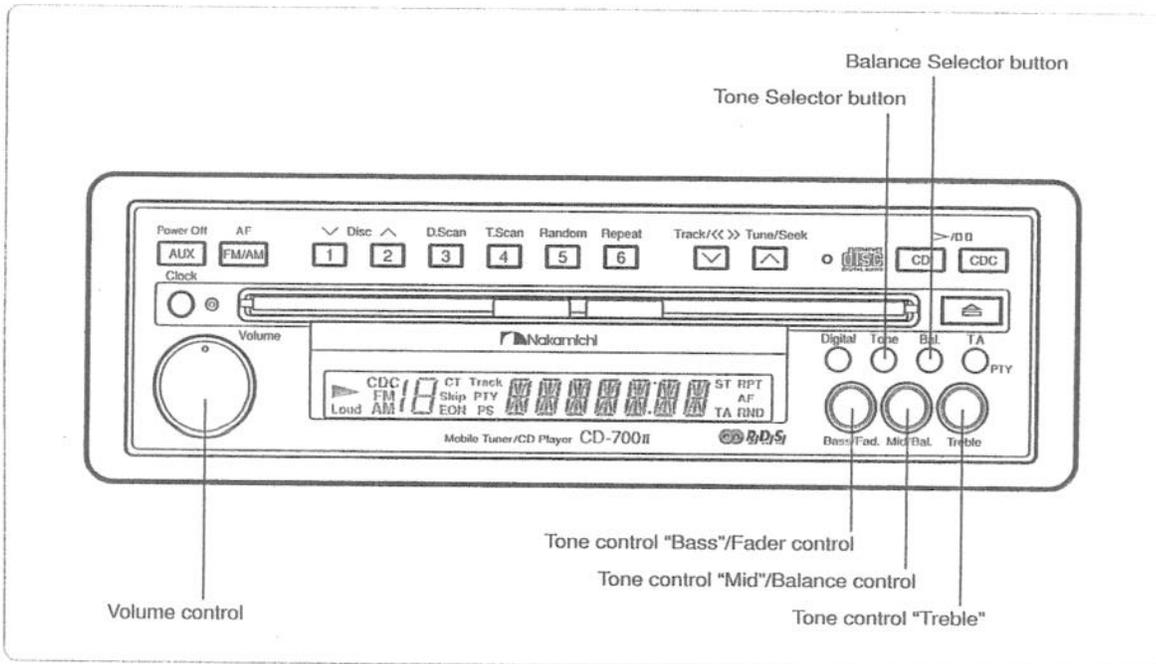
Program source selection

- Use the CD button, CDC button, Tuner button, or AUX button to select the program source.
- To play the sound of a connected component, turn the component on and press the AUX button on the CD-700. To stop playing the sound of a connected component, turn the component off.

Digital input/analog input selection

In CDC mode or AUX mode, keeping the Digital Input/Analog Input Selector button depressed for at least one second toggles the input type. Select digital input or analog input according to the type of output signal provided by the external source. When the digital input has been selected, the indication "DIGITAL" appears on the display. When the analog input has been selected, the indication "ANALOG" appears on the display. The default setting selected at the factory is "ANALOG".

- To check the input type setting, briefly tap the Digital Input/Analog Input Selector button. The current setting is shown on the display.



Volume adjustment

Turn the Volume control knob to clockwise to increase the volume and counter clockwise to decrease it.

Tone adjustment

1. Keep the Tone Selector button depressed for at least one second. The indication "TON ON" appears on the display.
2. Give the desired tone control knob a slight push, so that it pops out.
3. To adjust the low frequencies, use the "Bass" control. The "Mid" control adjusts the center frequency range, and the "Treble" control adjusts the high frequency range.

* When "TON OFF" is shown on the display, the tone controls have no effect. In this setting, the tone control circuitry is entirely bypassed, which may result in further improved sonic purity.

* To check the tone control setting, briefly tap the Tone Selector button. The current setting ("TON ON" or "TON OFF") is shown on the display. The default setting selected at the factory is "TON OFF".

Balance adjustment

1. Keep the Balance Selector button depressed for at least one second. The indication "BAL ON" appears on the display.
2. Give the Mid/Bal control knob a slight push, so that it pops out.
3. Turning the control clockwise emphasizes the right channel and turning it counterclockwise emphasizes the left channel.

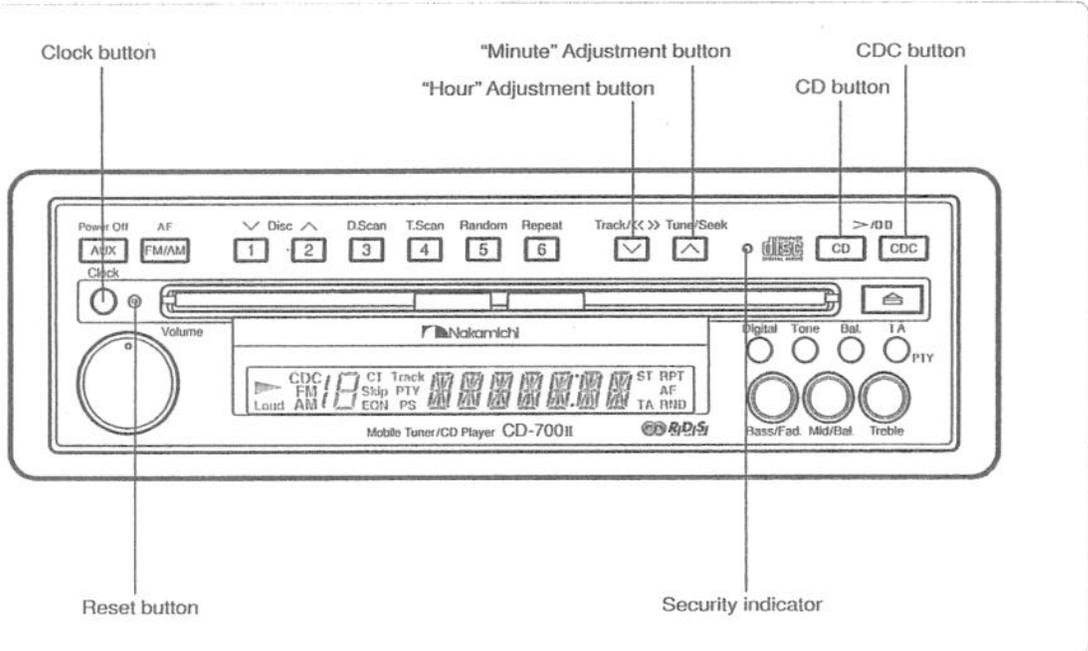
* When "BAL OFF" is shown on the display, the balance control has no effect. In this setting, the balance control circuitry is entirely bypassed, which may result in further improved sonic purity.

* To check the balance control setting, briefly tap the Balance Selector button. The current setting ("BAL ON" or "BAL OFF") is shown on the display. The default setting selected at the factory is "BAL OFF".

Fader adjustment

1. Give the Bass/Fad control knob a slight push, so that it pops out. Then pull out the knob even further.
2. Turning the control clockwise emphasizes the front channels and turning it counterclockwise emphasizes the rear channels.

English



Time indication

When you keep the Clock button depressed for about 1 second or more, the current time is shown on the display. To cancel the clock display, press the Clock button again for about 1 second or more.

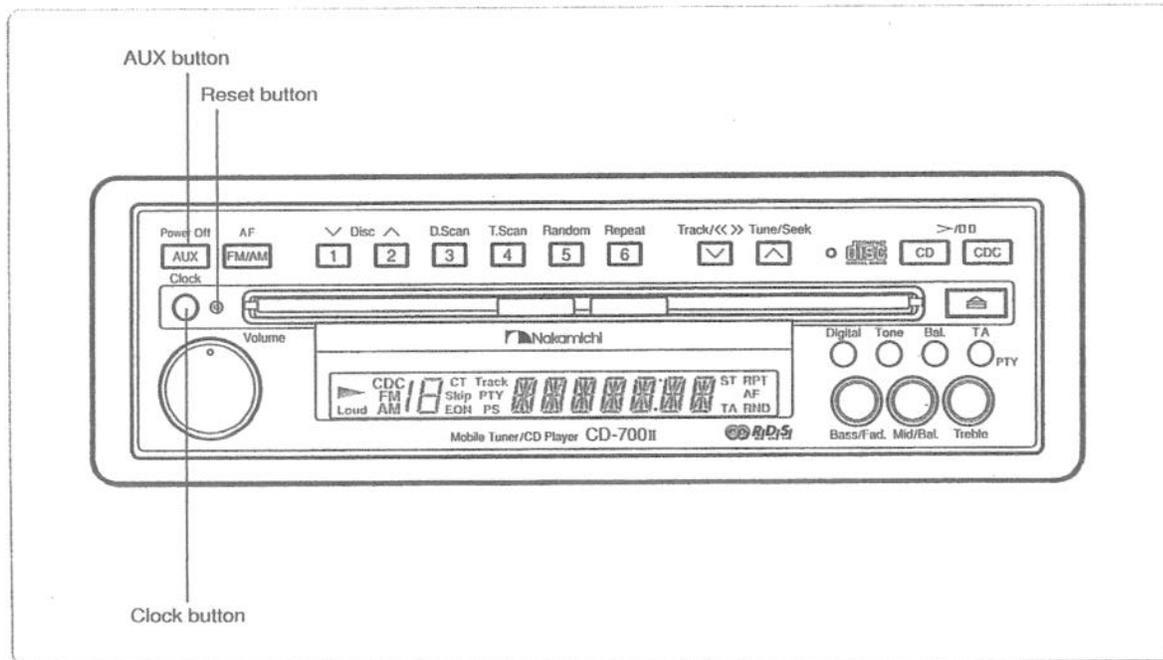
Adjusting the clock

1. While the unit is turned off, keep the Clock button depressed and press the "Hour" Adjustment button to set the hours.
 2. While the unit is turned off, keep the Clock button depressed and press the "Minute" Adjustment button to set the minutes.
- * The clock may be somewhat fast or slow. This is caused by temperature changes inside the car and is not a defect. Simply adjust the clock again.
 - * Normally, the time will be shown on the display also while the unit is turned off. When wishing to disable this feature, keep the Clock button depressed while pressing the Reset button. This will also disable the illumination of the unit while it is turned off. To re-enable clock display and illumination, press only the Reset button.

Security feature

When the security feature has been enabled, the Security indicator starts to flash when the ignition key is turned from ACC to OFF. This serves as a warning.

1. To enable the security feature, first turn the ignition key to OFF. Then hold down the CD button and CDC button and turn the ignition key from OFF to ACC. The security feature is now enabled. The next time the ignition key is turned from ACC to OFF, the Security indicator will start to flash.
2. To disable the security feature, repeat the procedure described in step 1. The next time the ignition key is turned from ACC to OFF, the Security indicator will not flash.



Beep sound

Normally, when a button on the unit is pressed, a short beep is heard which serves as a confirmation that the command was received. To disable this feature, proceed as follows. While the unit is turned off, keep the Clock button depressed and press the AUX button to turn the unit on. Repeat this procedure when you wish to re-enable the beep sound.

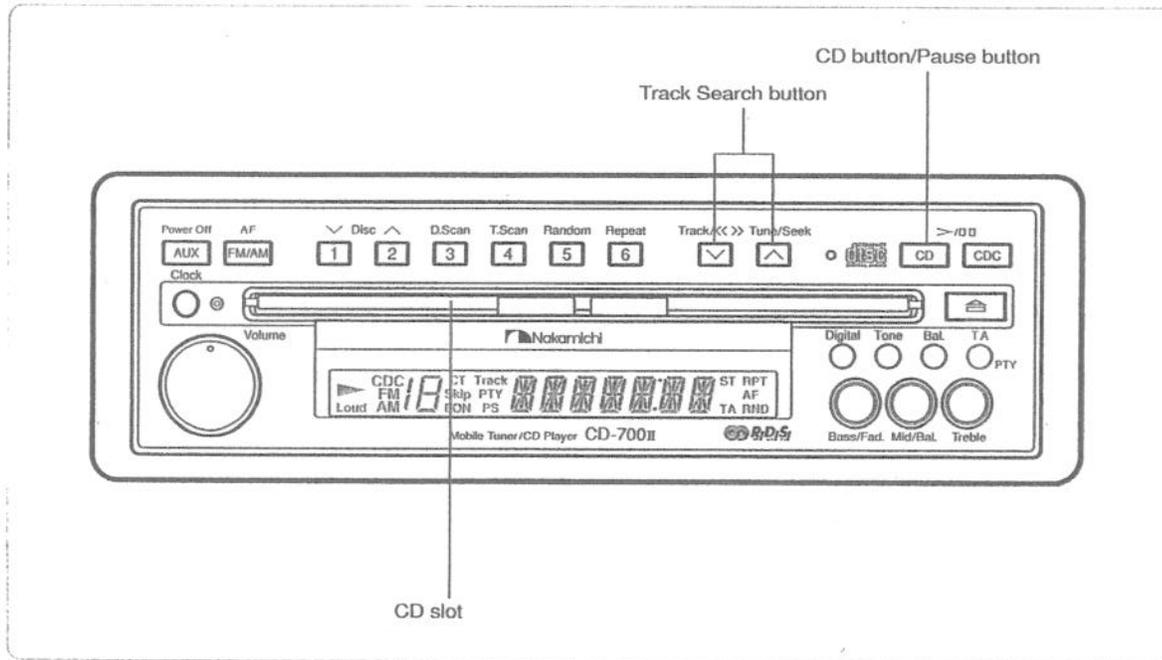
* The beep sound is output from the front speakers. If only rear speakers are connected, no beep will be heard.

Reset button

In normal operation, this button is not needed. Only if the controls of the unit for any reason do not seem to operate correctly, press this button.

CD Playback

English



CD playback

When the CD is inserted in the CD slot, the indication "CD" appears on the display for about 2 seconds, and CD playback starts. If a CD is already inserted in the unit and the mode is changed from another mode to the CD mode with the CD button, the indication "CD" appears on the display for about 2 seconds, and CD playback starts.

CD playback pause

When the Pause button is pressed, the indication "PAUSE" appears on the display and CD playback is paused. Pressing the Pause button again resumes playback.

Track search

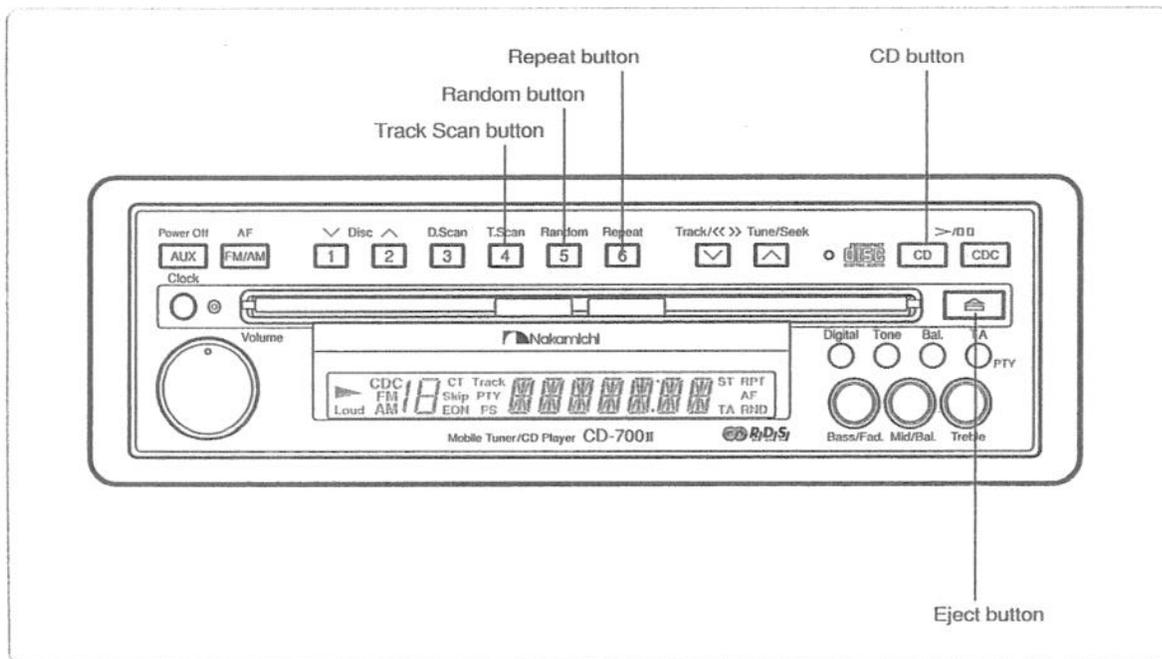
- Tap the Track Search button (∧) to locate the start of the next track. Tap the button repeatedly to locate later tracks.
- Tap the Track Search button (∨) to locate the start of the current track. Tap the button repeatedly to locate earlier tracks.

Forward search/reverse search

- Keep the Track Search button (∧) depressed (for one second or more) to quickly move through the disc in the forward direction. Release the button to resume playback.
- Keep the Track Search button (∨) depressed (for one second or more) to quickly move through the disc in the reverse direction. Release the button to resume playback.

Track scan

1. Pressing the Track Scan button causes the first 8 seconds of every track on every disc to be played back.
 2. When you want to continue to listen to a track, press the Track Scan button again. Regular playback then continues with this track.
- * If the elapsed playing time of the current track is less than 8 seconds, track scan is carried out from the current track. If it is 8 seconds or more, track scan is carried out from the next track.



Track repeat

1. When the Repeat button is pressed, the indication "RPT" appears on the display, and the current track is repeated.
2. Pressing the Repeat button once more cancels repeat playback. The indication "RPT" goes out, and regular playback resumes.

Random play

1. When the Random button is pressed during CD playback, the indication "RND" appears on the display, and all tracks on the current CD are played back in random order.
2. Pressing the Track Search button (^) locates the start of the next track in the random sequence.
3. Pressing the Random button once more cancels random playback. The indication "RND" goes out, and regular playback resumes from the current track.

* This unit chooses tracks so that the currently playing track and the next track are not the same. Therefore it is possible that the same track is played more than once during random play.

Ejecting the CD

When the Eject button is pressed, CD playback terminates and the CD is ejected.

- Pressing the CD button while the ejected CD is still in the loading slot causes the disc to be loaded again for playback.
- If the CD is not removed from the loading slot within 20 seconds, it will automatically be loaded again, to prevent the possibility of damage to the disc.

Double-action eject

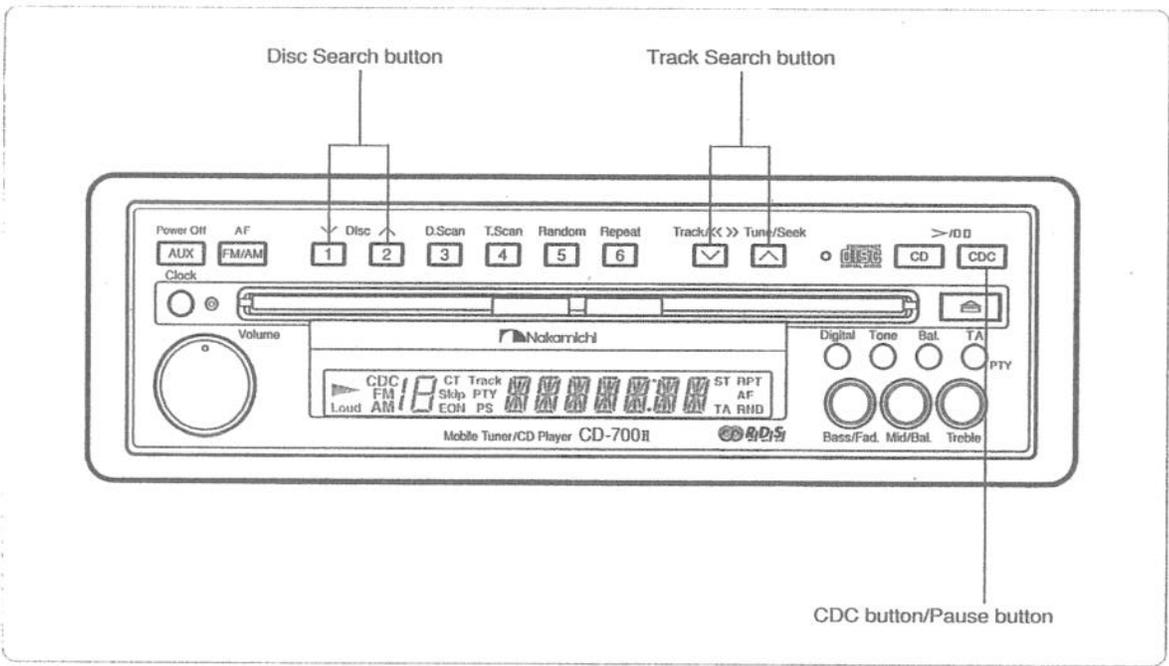
During eject, lightly pressing a CD sitting in the loading slot will cause the CD to protrude further, so that it can be easily removed. This feature is especially useful for 8-cm (3-inch) discs.

* When double-action eject was used, the CD will not be retracted automatically after 20 seconds or when the CD button is pressed. To load the disc again, first remove it completely and then insert it again.

CD Changer Control

When a Nakamichi CD changer is connected to the unit.

English



CD playback

When the CD changer mode is selected with the CDC button, the indication "CDC" appears on the display for about 2 seconds, and CD playback is carried out. When changing back to CD changer mode from another mode, CD playback continues from the point where playback stopped previously.

CD playback pause

When the Pause button is pressed, the indication "PAUSE" appears on the display and CD playback is paused. Pressing the Pause button again resumes playback.

Track search

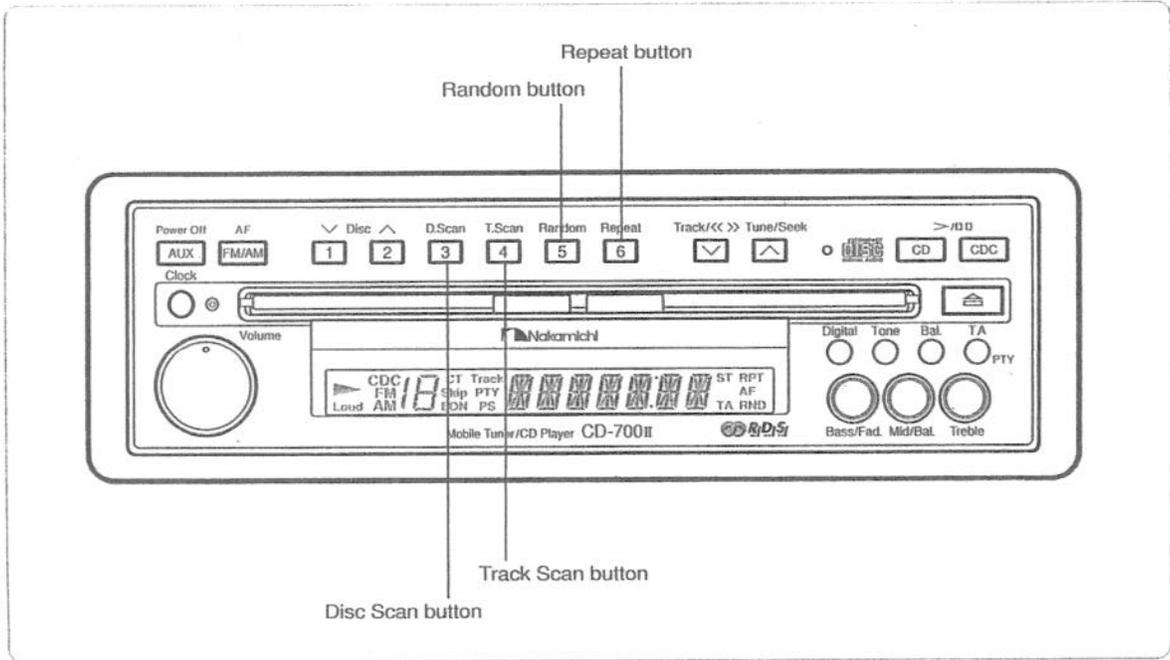
- Tap the Track Search button (^) to locate the start of the next track. Tap the button repeatedly to locate later tracks.
- Tap the Track Search button (v) to locate the start of the current track. Tap the button repeatedly to locate earlier tracks.

Forward search/reverse search

- Keep the Track Search button (^) depressed (for about 1 second or more) to quickly move through the disc in the forward direction. Release the button to resume playback.
- Keep the Track Search button (v) depressed (for about 1 second or more) to quickly move through the disc in the reverse direction. Release the button to resume playback.

Disc search

- Press the Disc Search button (^) to move to the next disc. During disc search, the indication "CHANGE" appears on the display. Keep the button depressed (for about 1 second or more) to jump to later discs.
- Press the Disc search button (v) to move to the previous disc. During disc search, the indication "CHANGE" appears on the display. Keep the button depressed (for about 1 second or more) to jump to earlier discs.



Disc scan

1. When the Disc Scan button is pressed, the first 8 seconds of the first track on each disc are played back.
2. When you want to continue to listen to a disc, press the Disc Scan button again. Regular playback then continues with this disc.

Track scan

1. Pressing the Track Scan button causes the first 8 seconds of every track on every disc to be played back.
2. When you want to continue to listen to a track, press the Track Scan button again. Regular playback then continues with this track.

* If the elapsed playing time of the current track is less than 8 seconds, track scan is carried out from the current track. If it is 8 seconds or more, track scan is carried out from the next track.

Track repeat

1. When the Repeat button is pressed, the indication "RPT" appears on the display, and the current track is repeated.
2. Pressing the Repeat button once more cancels repeat playback. The indication "RPT" goes out, and regular playback resumes.

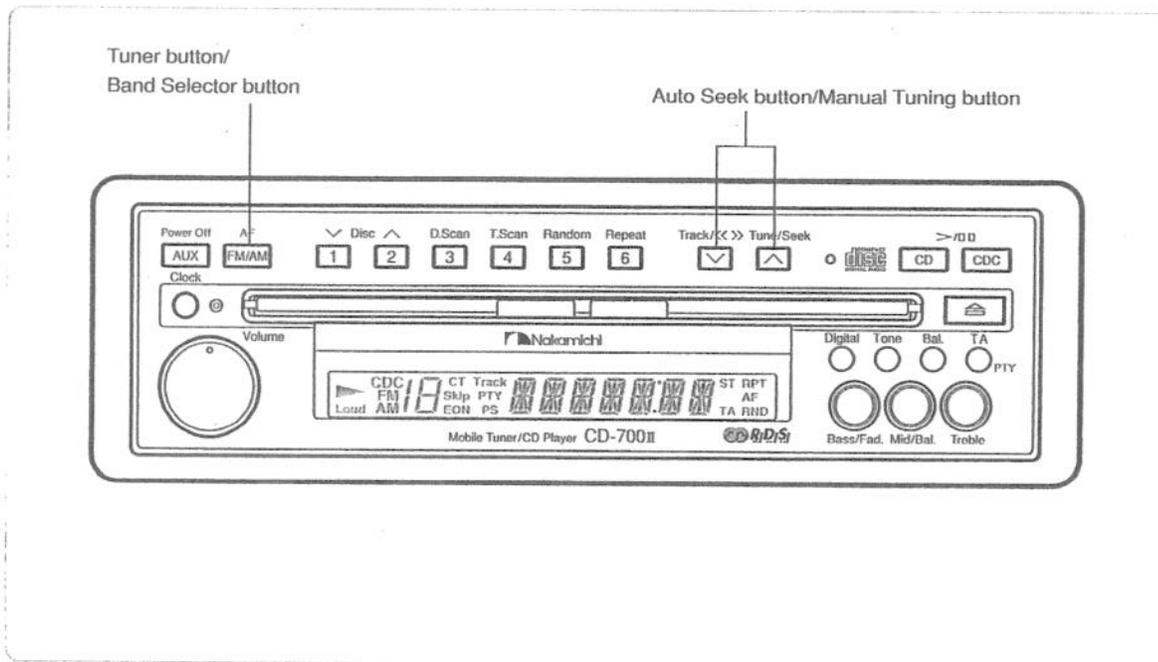
Random play

1. When the Random button is pressed during CD playback, the indication "RND" appears on the display, and all tracks on all discs in the CD changer are played back in random order.
2. Pressing the Track Search button (^) locates the start of the next track in the random sequence.
3. Pressing the Random button once more cancels random playback. The indication "RND" goes out, and regular playback resumes from the current track.

* This unit remembers only the last 5 tracks that were already played and controls random play so that these tracks are not selected. This means that it is possible for the same track to be played more than once during random play.

FM/AM Reception

English



FM/AM reception

When the tuner mode is selected with the Tuner button, the band indication (FM1, FM2, FM3, AM1, AM2) appears on the display for about 2 seconds, and FM/AM broadcast reception is carried out. When changing back to tuner mode from another mode, broadcast reception continues with the same station that was tuned in previously.

Band selection

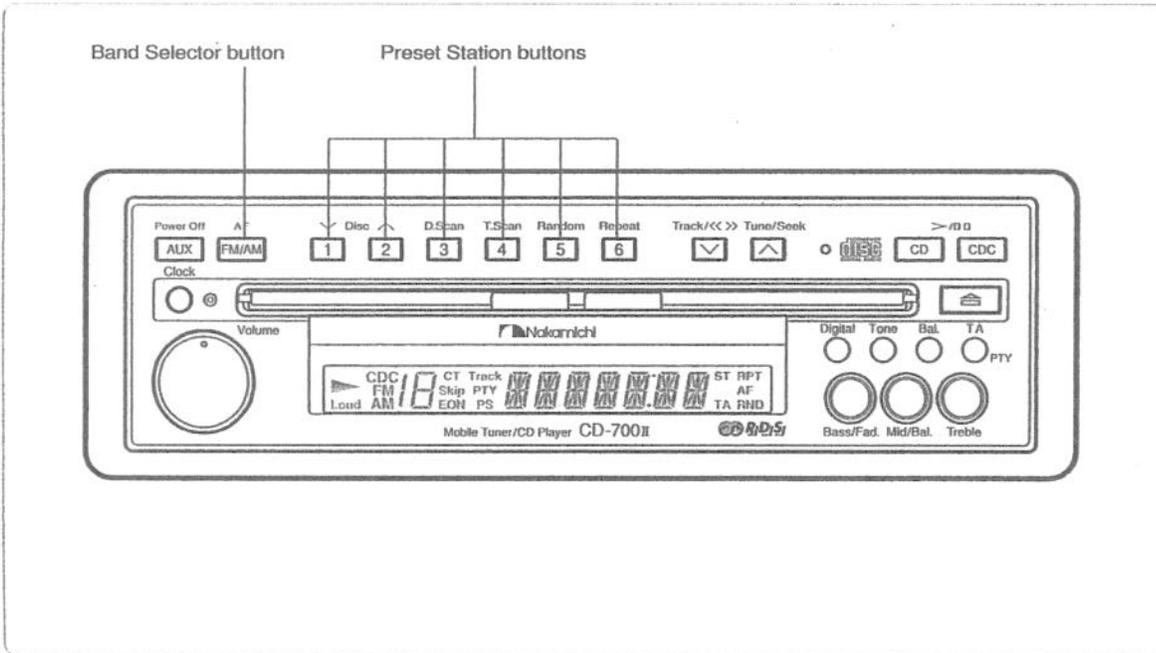
With each push of the Band Selector button, the tuner band cycles through the settings FM1, FM2, FM3, AM1, AM2.

Auto seek

When the Auto seek button is depressed for about 1 second or more, the unit automatically searches for the next strong station that can be received.

Manual tuning

Press the Manual Tuning button to activate manual tuning. This makes it possible to receive also weak stations where the automatic seek tuning function does not stop.



Manual memory

1. Select the frequency band (FM1, FM2, FM3, AM1, AM2) with the Band Selector button and adjust the tuner to receive the desired broadcast station.
2. Keep the desired Preset Station button (1-6) depressed for about 2 seconds or more. When the preset number on the display stops flashing and stays constantly lit, the station is stored in memory.

Memory tuning

1. Select the frequency band (FM1, FM2, FM3, AM1, AM2) with the Band Selector button.
2. Press the desired Preset Station button (1-6). The station stored in that button is received.

Troubleshooting

English

In case of an apparent malfunction, please check the following points.

If the problem persists, contact your dealer or an authorized service station.

Condition	Countermeasure
Unit cannot be turned on.	Check the fuses.
CD cannot be inserted.	Eject any CD already inside the unit.
CD is ejected immediately.	Insert CD with the label facing up.
Cannot playback.	Check all connections.
Dropouts, mistracking or skipping occurs even with slight vibrations.	Clean the CD.
No radio reception possible.	Check antenna connection. If a window antenna is used, make sure that the antenna booster is operating.
Ignition noise is heard during broadcast reception.	Connect ground cable securely. Choose a different ground point.
Controls cannot be operated. Malfunction occurs.	Check whether the car battery is exhausted. Push the reset button.

CD changer/CD player error messages

When a problem is detected in a connected CD changer or the internal CD player, an error message as shown below is displayed. Try the indicated countermeasures.

If the problem persists, contact an authorized service station.

Error message	Meaning	Countermeasure
<i>NO DISC</i>	No CD is inserted. (MB-70, MB-600, MF-51, MF-31 etc.) Disc tray is in the extended position, or no CD is inserted. (MB-9, MB-7, 100mb etc.) No magazine is inserted, or no CD is inserted. (CDC-111, 100cdc etc.)	Load one or more CDs. Close the disc tray or load CDs. Insert the disc magazine or load CDs.
<i>E-DISC</i>	CD is inserted upside down. CD is very dirty. CD is scratched or otherwise damaged.	Insert CD correctly. Clean the CD. Use a different CD.
<i>E-MECHA</i>	Unit has become non-functional for some reason.	Switch the program source, press the eject button, or turn the unit off. If this does not remove the problem, press the reset button.

Specifications

Preamplifier section

Frequency Response 15 - 30,000 Hz \pm 1 dB
 (AUX to Pre Out)
 Total Harmonic Distortion 0.001% (1 kHz)
 AUX Input Level/Impedance 1 V/10 kohms
 CDC Input Level/Impedance 1 V/10 kohms
 Output Level 5 V
 Tone Controls
 Bass 20 Hz \pm 12 dB
 Mid 1 kHz \pm 9 dB
 Treble 20 kHz \pm 6 dB

FM tuner section

Frequency Range
 U.S.A. 87.5 - 107.9 MHz in 100-kHz steps
 Other Area .. 87.5 - 108.0 MHz in 50-kHz steps
 Sensitivity 15 dBf (IHF)
 Signal-to-Noise Ratio 60 dB (Mono)
 Stereo Separation 35 dB
 Antenna Input 75 ohms (Unbalanced)

AM tuner section

Frequency Range
 U.S.A. 530 - 1,710 kHz in 10-kHz steps
 Other Area 531 - 1,602 kHz in 9-kHz steps
 Sensitivity 32 dB μ
 Signal-to-Noise Ratio 45 dB

CD player section

System Compact Disc digital audio
 Error Correction CIRC Principle
 Sampling Frequency 44.1 kHz
 D/A Converter Type 24-bit D/A converter with
 8-times oversampling digital filter
 Frequency Response 20 - 20,000 Hz \pm 1 dB
 Signal-to-Noise Ratio Better than 105 dB
 Dynamic Range Better than 100 dB
 Total Harmonic Distortion 0.003% (1 kHz)

General

Power Source 14.4 V DC, negative ground
 (10.8 - 15.6 V allowable)
 Current Consumption 2.5 A
 Installation dimensions (W x H x D)
 Main unit 178 x 50 x 159.5 mm
 7 x 1-15/16 x 6-1/4 inches
 Outer dimensions (W x H x D)
 Main unit 178 x 46* x 177.8 mm
 7 x 1-15/16* x 7 inches
 Power supply unit 137 x 31.2 x 85 mm
 5-3/8 x 1-1/4 x 3-3/8 inches
 Mass
 Main unit Approx. 1.6 kg / 3 lbs. 8 oz.
 Power supply unit Approx. 0.5 kg / 1 lbs. 2 oz.

* Dimensions do not include protruding parts. Height is the panel height.
 • Specifications and design are subject to change for further improvement without notice.

Nakamichi Mobile Sound System

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Important Notice to Installers

(Be sure to read this before installing the unit)

The chassis of this unit forms part of the high-precision mechanism assembly. **If the chassis is subject to excessive pressure or stress, the unit will not operate properly.** Closely observe the following points when installing the unit.

1. **Before starting the installation, verify that there is sufficient clearance around the installation location.** Make sure that there are no protruding parts, wire harnesses or other parts that could exert pressure on the unit when installed.
2. **Make sure that the cables exiting at the rear of unit do not exert pressure on the unit when the unit is inserted in the installation location.** Especially if the amp block has been removed, the amp block extension cable and the pre-out leads with RCA-type phono plugs can cause a problem if not dressed properly.
3. When using the mounting sleeve for cars having DIN-sized installation cutouts, insert the unit with care into the mounting sleeve. **If the unit does not slide in smoothly, do not try to push it in forcibly.** Check for jammed wiring at the rear and remove any obstacles.

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