

# KENWOOD

**KRC-902**  
**KRC-802**

CASSETTE RECEIVER  
**INSTRUCTION MANUAL**

KENWOOD CORPORATION

**Take the time to read through this instruction manual.**

**Familiarity with installation and operation procedures will help you obtain the best performance from your new cassette-receiver.**

**For your records**

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your KENWOOD dealer for information or service on the product.

Model KRC-902/802 Serial number \_\_\_\_\_

© B64-0745-00 (KW) (MC)

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## **⚠ Warning**

### **FCC WARNING**

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

## ***Before use***

## ***Basic operations***

## ***Basic operations of remote***

## ***Tuner features***

## ***Cassette player features***

## ***Disc changer control features***

## ***Other features***

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

*English 3*

## Safety precautions

### **▲WARNING**

*To prevent injury or fire, take the following precautions:*

- Insert the unit all the way in until it is fully locked in place. Otherwise it may fall out of place when jolted.
- When extending the ignition, battery, or ground wires, make sure to use automotive-grade wires or other wires with a diameter of 0.75mm or more to prevent wire deterioration and damage to the wire coating.
- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- If the unit starts to emit smoke or strange smells, turn off the power immediately and consult your Kenwood dealer.
- Do not place your fingers between the cover and the guide frame.
- Be careful not to drop the unit or subject it to strong shock.  
The unit may break or crack because it contains glass parts.
- Do not touch the liquid crystal fluid if the LCD is damaged or broken due to shock. The liquid crystal fluid may be dangerous to your health or even fatal. If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

### **▲CAUTION**

*To prevent damage to the machine, take the following precautions:*

- Make sure to ground the unit to a negative 12V DC power supply.
- Do not open the top or bottom covers of the unit.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
- To prevent a short circuit when replacing a fuse, first disconnect the wiring harness.
- Do not stick anything between the cover and the guide frame.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.

### **IMPORTANT INFORMATION**

*You cannot connect the unit directly to the following CD automatic changers. If you want to use older changers with the unit, follow the directions below according to the type of changer you own:*

#### • KDC-C200 / KDC-C300 / KDC-C400

Use the extension cable and the control box attached to the CD changer, and the optional CA-DS100 converter cord.

#### • KDC-C301 / KDC-C600 / KDC-C800 / KDC-C601 / KDC-C401

Use the extension cable attached to the CD changer, and the optional CA-DS100 converter cord.

#### • C705i

Use the extension cable attached to the CD changer, and the optional CA-K300 converter cord.

#### • KDC-C100 / KDC-C302 / C205 / C705 / non-Kenwood CD changers

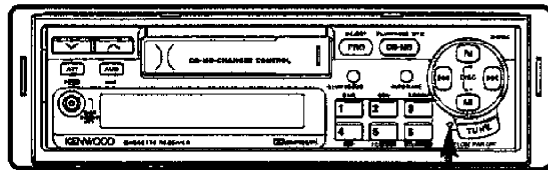
Cannot be used with this model.

### **▲CAUTION**

You can damage both your unit and the CD changer if you connect them incorrectly.

### NOTE

- If you experience problems during installation, consult your Kenwood dealer.
- If the unit doesn't seem to be working right, try pressing the reset button first. If the cover is closed, open it by pressing the lower left of the guide frame. When you press the reset button, both the guide frame and the cover will begin to move, and the unit will return to its initialized (factory) defaults. If that does not fix the problem, consult your Kenwood dealer.



Reset button

### Cleaning the Unit

If the front panel gets dirty, turn off the power and wipe the panel with a dry silicon cloth or soft cloth.

### CAUTION

Do not wipe the panel with a hard cloth or a cloth dampened by volatile solvents such as paint thinner and alcohol. They can scratch the surface of the panel and/or cause the indicator letters to peel off.

### Cleaning the Tape Head

After you have listened to many cassettes over a long period of time, magnetic powder from the tapes and dust accumulates on the tape head, causing noise and a deterioration in sound quality. Clean the tape head using a cleaning tape or cleaning kit designed for use in car audio systems.

### Handling Cassette Tapes

- Do not play a cassette whose tape has gone slack. In such a case, wind it tight using a pencil or the like in one of the spools. Playing slack cassette tapes can result in the tape tangling around the capstan and/or pinch rollers, causing trouble.
- Do not play a deformed cassette or one whose label is starting to come off, as it can cause the unit to malfunction.
- Do not leave tapes in hot places, such as on dashboards and other spots exposed to direct sunlight, or near heater outlets. They can deform the cassette.
- Avoid using extremely long cassette tapes, such as 120-minute-long tapes. Such tapes are very thin, and can tangle easily around the pinch rollers or other parts inside the unit, causing unit failure.
- Remove a cassette tape from the unit when not listening to it for a while. If you leave a tape in the unit too long, it may stick to the tape head and cause unit malfunction.

# Features

## ■ Tuner

- **Auto seek tuning (p. 16)**  
Conducts automatic seeks of receivable stations. Useful when you do not know the frequencies of particular stations.
- **Station preset memory (p. 17)**  
Stores the frequency of the station currently being listened to. You can then recall that station with a single touch of a button. Useful for stations that you listen to often.
- **Auto memory entry (p. 17)**  
Automatically stores all the receivable stations in the band currently being listened to. You can then recall those stations with a single touch of a button. Useful when you do not know the stations in the area in which you are traveling. Up to six stations can be stored with this function.
- **Direct access tuning (p. 19)**  
**(Function of Remote)**  
When you know the frequency of the station that you want to listen to, you can input it directly for quick access.
- **Clean Reception System Circuit (CRSC) (p. 18)**  
When poor stereo reception occurs while you are listening to the FM station, this function temporarily switches from stereo to mono reception to reduce the level of noise.

## 6 English

### ■ **Tape player**

- **Tape type selection (p. 21)**

Select the type of tape being played, such as normal and metal (for example, CrO2).

- **Direct Program Search System (DPSS)(p. 22)**

Allows you to skip to other tracks during playback, up to nine tracks in either direction.

- **DPSS using number buttons (p. 23) (Function of Remote)**

Specifies the exact number of tracks to be skipped using DPSS (see above). Only available with the number buttons on the remote.

- **Index scan (p. 25)**

Plays the first few seconds of each track on the tape, helping you find the one that you want to listen to.

- **Music repeat (p. 25)**

Repeatedly plays the track currently being listened to.

- **Blank skip (p. 24)**

When long blank spaces (10 seconds or more) are detected, automatically fast forward the tape to the beginning of the next track, continuing tape playback.

- **Tuner call (p. 24)**

Switches automatically to the tuner while you are rewinding or fast forwarding the tape, allowing you to listen to the radio.

## Features

### ■ **Disc changer control (changer optional)**

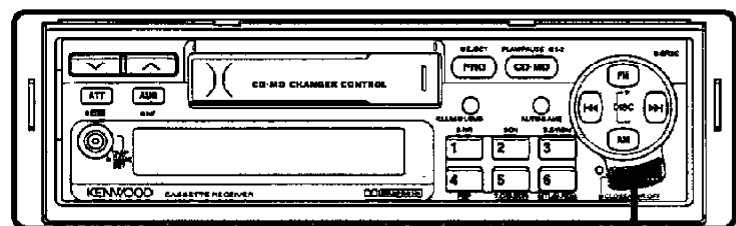
- **Disc changer control (p. 26)**  
Allows control of the disc changer (when attached) from the unit.
- **Disc changer switching unit control function (p. 26)**  
If the disc changer switching unit KCA-S200 which is sold separately is connected for the control function, two disc changers can be controlled by the main unit.
- **Track / Disc search (p. 28,29)**  
Moves (forward or reverse) one track/disc each time the button is pressed, and plays that track/disc from the beginning.
- **Direct track/disc search (p. 30,31) (Function of Remote)**  
Using the number buttons on the remote, you can directly select the track number (or disc number) that you want to listen to.
- **Track repeat function (p. 29)**  
Repeats the track currently being listened to.
- **Disc repeat function (p. 29)**  
Repeats the entire disc currently being listened to.
- **Track scan function (p. 32)**  
Successively plays the beginning of each track on the disc, allowing you to find the track that you want to listen to.
- **Disc scan function (p. 33)**  
Successively plays the beginning of each track of each disc, allowing you to find the track that you want to listen to.
- **Random play function (p. 33)**  
Plays all the tracks on the disc in random order.
- **Magazine random play function (p. 34)**  
Plays tracks from all the discs in random order.
- **Presetting disc name (p. 35)**  
You can give names to your discs. The name of the disc being played appears in the display automatically.



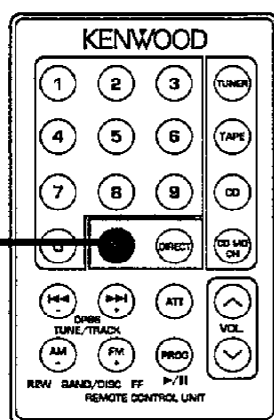
## ■ Other

- **Stealth Retraction Mechanism (SRM) (p. 10)**  
 Opens or shuts the faceplate cover as you turn your car's ignition on or off. The cover will retract to show the unit as the ignition is turned on, and will close to hide the unit as the ignition is turned off.
- **Remote (p. 14)**  
*(Included with KRC-902, optional for KRC-802)*  
 Allows wireless remote control of the unit. Some functions are only available when you have a remote.
- **Steering wheel remote (option)**  
 Allows remote control of the unit while your hands are on the steering wheel.
- **Attenuator (p. 12)**  
 Turns down the volume quickly.
- **Loudness control (p. 13)**  
 Amplifies low and high tones when the volume is turned down, for fuller sound quality.
- **Audio control setting (p. 36)**  
 Allows for adjustment of bass, treble, balance, fader, and non-fading preout levels.
- **Selectable illumination (p. 37)**  
 Switches the color of the display between green and amber.
- **Selectable display type (p. 37)**  
 Switches the display among three choices: positive, negative, and one dependent on your car's light switch.
- **Clock display (p. 38)**  
 Displays the time.
- **Valet (p. 39)**  
 When you activate the valet function, the unit cannot be turned on. Thus, when you leave the keys to your car with a parking lot valet or someone else, they cannot tamper with your car audio system.
- **Switching preout (p. 38)**  
 The front preout can be switched to non-fading, which lets you decrease the volume for the front and rear (including the rear preout) channels while keeping the same volume for the non-fading preout, thus emphasizing the non-fading sound. When you select non-fading, the high-pass filter is automatically applied to the front and rear output, making this function convenient when using a sub-woofer connected to the system.

## Basic operations



**TUNE / CLOSE/PWR OFF**



**OPEN/CLOSE**

### Power ON (Stealth Retraction Mechanism)

As a theft-preventive measure, the faceplate cover shuts to hide the unit.

#### Exposing the Unit by Turning Ignition On:

When you turn on the car's ignition, the unit will also be turned on, and the cover will retract to expose the panel.

#### NOTE

- The very first time you use the unit, or after you have pressed the reset button, you must press the lower left side of the guide frame to open the cover. After that the cover will open automatically each time you turn the ignition on.
- If the cover hits anything as it is opening, an alarm will sound and the cover will close. In such a situation, remove the object, press the lower left side of the guide frame, and the cover will open again, turning on the power to the unit.

#### CAUTION

- If your car's console has a lid, you must keep it open while the cover is opening and closing.
- Do not press down on the cover or the guide frame. The cover mechanism in the unit may not work otherwise.

#### Hiding the Unit by Turning Ignition Off:

Turn off your car's ignition, and the cover will close to hide the panel.

#### NOTE

If the cover hits anything as it is closing, an alarm will sound and the cover will open again. In such a situation, remove the object, turn your car's ignition on then off again, and the cover will close.

### ***Hiding the Unit While the Ignition Is On (Forced Cover Closing):***

Press the CLOSE/PWR OFF button for at least one second, or press the OPEN/CLOSE button on the remote. A beep sounds for three seconds, after which the cover will close. By pressing either the TUNE or OPEN/CLOSE buttons during this period, you can cancel the closing.

#### **NOTE**

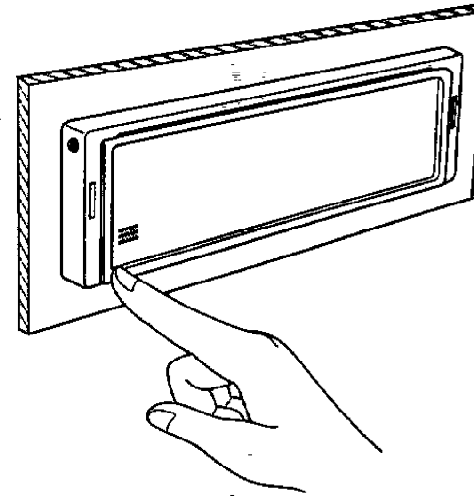
If the cover hits anything as it is closing, an alarm will sound and the cover will open again. In such a situation, remove the object, press the TUNE button again to turn on the unit's power, and then the CLOSE/PWR OFF button again for at least one second (or the OPEN/CLOSE button on the remote) to close the cover again.

### ***Exposing the Unit After Forced Cover Closing:***

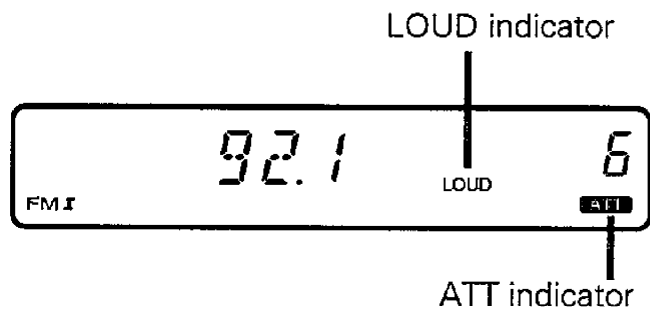
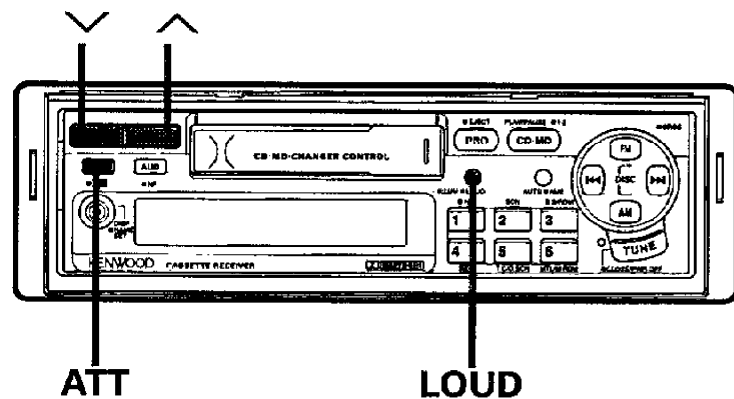
Press the lower left side of the guide frame, or press the OPEN/CLOSE button on the remote.

#### **NOTE**

When you cancel the forced cover closing using the OPEN/CLOSE button, make sure to aim the remote at the lower left side of the guide frame (where the optical beam receptor is located.)



## Basic operations



### Volume

#### **Increasing Volume:**

Press the ^ button to turn up the volume.

#### **Decreasing Volume:**

Press the v button to turn down the volume.

### Attenuator

**This function allows you to turn down the volume quickly.**

#### **Turning Attenuator On/Off:**

Press the ATT button to switch the attenuator on and off. When the attenuator is on, the ATT indicator blinks. When the attenuator is off, the volume returns to the original level.

#### **NOTE**

Turning the volume all the way down deactivates the attenuator function.

### Loudness

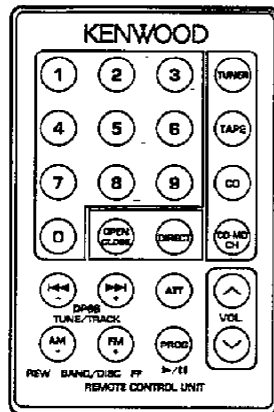
**This function amplifies low and high tones when the volume is turned down.**

***Turning Loudness On/Off:***

Press the LOUD button for at least one second to switch the loudness on and off.  
The LOUD indicator lights up when the loudness function is on.

## Basic operations of remote

### Optional for KRC-802



#### Replacing the Lithium Battery:

Use one lithium battery (CR2025). Insert the battery with the + and - poles aligned properly, following the illustration inside the case.

#### **WARNING**

Store unused lithium batteries out of the reach of children. Contact a doctor immediately if the battery is accidentally swallowed.

#### **CAUTION**

Do not set the remote on hot places such as above the dashboard.

#### **NOTE**

Remove the film from the battery case the first time you use the remote.

### All Modes

- **OPEN/CLOSE button**  
Opens or closes the faceplate cover each time it is pressed.
  - **ATT button**  
Turns down the volume quickly. To return the volume to its original level, press the button again. Turning the volume all the way down also cancels attenuation.
  - **VOL. buttons**  
Press the ^ button to turn the volume up.  
Press the v button to turn the volume down.
  - **CD•MD CH button**  
Selects the disc changer mode. When two disc changers are connected to the unit, the disc changer mode will be split into disc changer mode 1 and disc changer mode 2, and each press of this button switches between them.
- NOTE**
- The KCA-S200, which is sold separately, must be used when two disc changer units are connected.
- **TAPE button**  
Selects the tape mode.
  - **TUNER button**  
Selects the tuner mode. Pressing this button again selects the standby mode.

### Tuner Mode

- **Number buttons**  
Press buttons #1-6 to recall preset stations.  
During direct access tuning, use these buttons to input the frequency of the station.
- **TUNE buttons**  
Press the ◀◀ button to decrease the frequency.  
Press the ▶▶ button to increase the frequency.
- **AM button**  
Selects the AM band.
- **FM button**  
Selects and switches between FM1, FM2, and FM3 (which are used for groups of preset stations).
- **DIRECT button**  
Selects the direct access tuning mode, used to input frequencies directly. Press this button again to cancel the mode while it is operating.

### Tape Mode

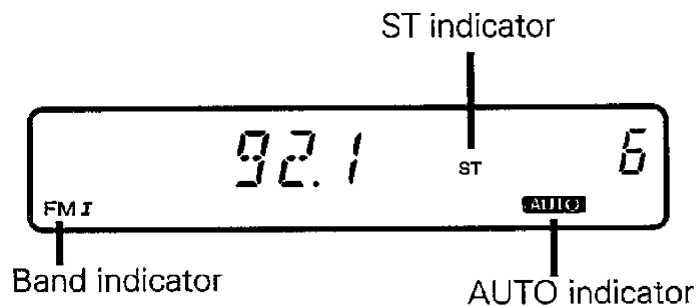
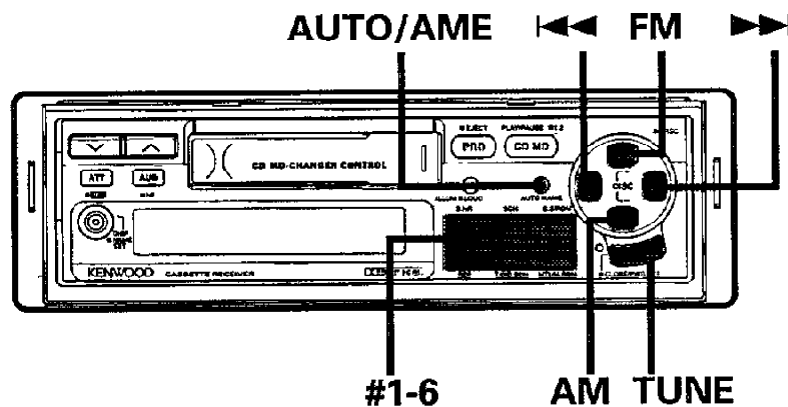
- **Number buttons**  
Used to input the number of tracks to be skipped using DPSS.
- **DPSS buttons**  
Press the ◀◀ button to skip backward by the specified number of tracks.  
Press the ▶▶ button to skip forward by the specified number of tracks.
- **REW button**  
Rewinds the tape.

- **FF button**  
Fast forwards the tape.
- **PROG button**  
Plays the reverse side of the tape. When pressed during fast forward and rewind, this button stops the tape and starts playing it.

### Disc Changer Mode

- **Number buttons**  
Used to specify the track (disc) number used in direct track (disc) searches.
- **TRACK buttons**  
Press the ◀◀ button to search through the tracks backward.  
Press the ▶▶ button to search through the tracks forward.
- **DISC buttons**  
Press the - button to search through the discs backward.  
Press the + button to search through the discs forward.
- **▶|| button**  
Plays the disc. When a disc is playing, this button pauses the play.

# Tuner features



## Tuning

- 1** Press the TUNE button to turn the radio on.
- 2** Press either the FM or AM button to select the band. Each time you press the FM button, the band switches between FM1, FM2, and FM3 (which are used for groups of preset stations). Press the AM button to select the AM band.
- 3** Press the AUTO button to switch between auto seek tuning and manual tuning. The AUTO indicator lights up only when auto seek tuning is selected.
- 4**
  - **Auto Seek Tuning**  
Press the ►► button to seek higher frequencies. Press the ◀◀ button to seek lower frequencies.
  - **Manual Tuning**  
Press the ►► button to increase the frequency by one step. Press the ◀◀ button to decrease the frequency by one step.

### NOTE

The ST indicator lights up when stereo broadcasts are being received.



## Station Preset Memory

Store the frequency of a station.

- 1 Select the band/frequency of the station that you want to have stored.
- 2 Press the button (#1-6) that you want to use for the station, for at least two seconds. The button number blinks once in the display to indicate that the data has been stored.

### **Recalling a Preset Station:**

Press the preset station button (#1-6) for the desired station. The number of the recalled station is displayed.

#### **NOTE**

You can store six stations in each of the FM1, FM2, FM3, and AM bands.

## Auto Memory Entry

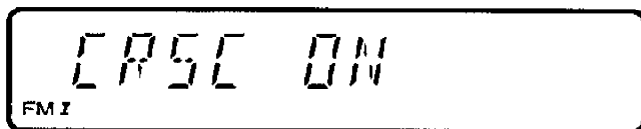
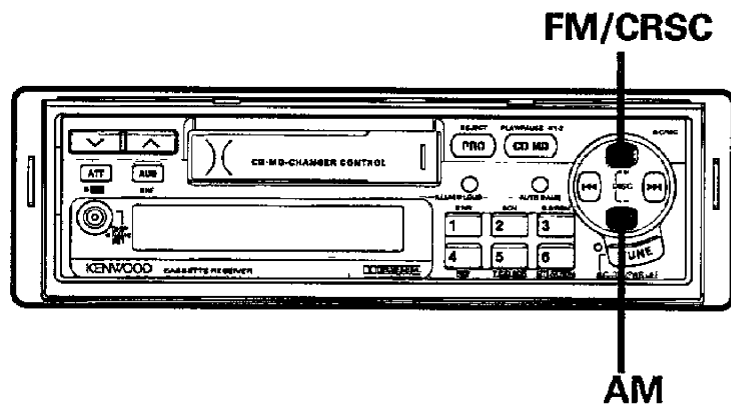
Automatically store the receivable stations in the area.

- 1 Select the band for which you want to store stations.
- 2 Press the AME button for at least two seconds to start auto memory entry. The numbers of the preset station buttons are shown in order. When all the stations in a certain band are stored in the preset memory, the auto memory entry stops. The tuner then plays the last station received.

### **Recalling a Preset Station:**

Press the preset station button (#1-6) for the desired station. The number of the recalled station is displayed.

## Tuner features



### Clean Reception System Circuit (CRSC)

Temporarily have reception switched from stereo to mono to reduce multi-path noise when listening to the FM station.

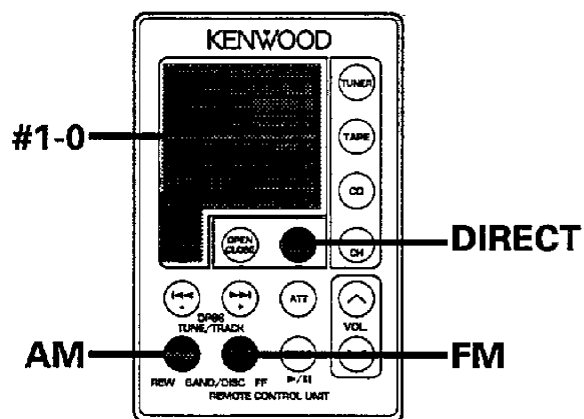
#### Turning CRSC On/Off:

Press the CRSC button for at least one second to turn the function on/off. "CRSC ON" is displayed when CRSC is on. The factory default for this function is ON.

#### NOTE

Strong electrical fields (such as from power lines) may cause unstable sound quality when CRSC is turned on. In such a situation, turn it off.

### Direct Access Tuning



#### Use the remote to select frequencies directly.

- 1** Select the band by pressing the FM or AM button.
- 2** Press the DIRECT button.  
In the display, "—" blinks for 10 seconds.  
If you make no input in the 10-second period, direct access tuning is automatically canceled.
- 3** Enter the frequency of the desired station while the display is blinking.  
If you want to listen to an FM station at 92.1 MHz, for example, press 9, 2, and 1.  
If you want to listen to an AM station at 810 kHz, for example, press 8, 1, and 0.

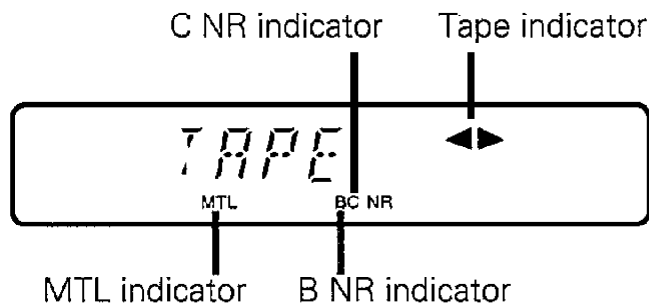
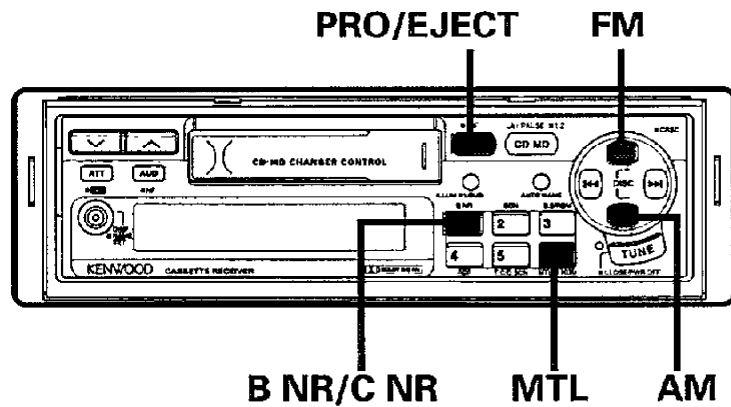
#### NOTE

- You cannot enter frequencies above or below what a band can receive.
- FM frequencies can only be input in 0.1 MHz steps, and not 0.01 steps.

#### Canceling Direct Access Tuning:

Press the DIRECT button again.

# Cassette player features



## Playing Cassette Tapes

### **Loading and Playing Cassettes:**

Load a cassette with the tape exposed on the right.

The tape starts playing automatically.

With side A facing up, the ► indicator lights up when side A is playing, and ◀ when side B is playing.

The ◀ ► indicator lights up while play is paused.

### **Playing Cassettes Already Loaded:**

Press the PRO button to start play.

### **Listening to the other side:**

Press the PRO button.

Tape play switches to the other side.

### **Stopping and Ejecting Cassettes:**

Press the EJECT button for at least one second.

The tape stops playing and the cassette ejects.

#### **NOTE**

Remove a cassette from the unit when not listening to it for a while. If you leave it in the unit too long, the tape may stick to the tape head and cause unit malfunction.

## Fast Forwarding and Rewinding Cassette Tapes

### Fast Forwarding Tapes:

Press the FM button.  
The tape indicator blinks in the direction of the tape as it is being fast forwarded.

With side A facing up, you see:

▶▶▶ (side A fast forwarding) ◀◀◀ (side B fast forwarding)

### Rewinding Tapes:

Press the AM button.  
The tape indicator blinks in the direction of the tape as it is being rewound.

With side A facing up, you see:

◀◀◀ (side A rewinding) ▶▶▶ (side B rewinding)

### Canceling:

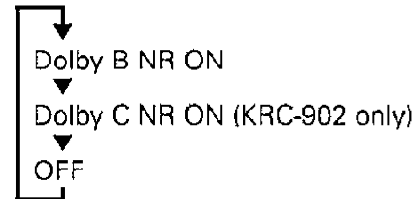
Press the PRO button.  
Normal tape play will begin.

## Using Dolby B/C Noise Reduction

Listen to tapes recorded using Dolby B or C.

### Turning Dolby Noise Reduction On/Off:

Press the B NR/C NR button to switch the Dolby NR selection as follows:



The Dolby B NR indicator lights up when Dolby B NR is turned on, and the Dolby C NR indicator when Dolby C NR is turned on.

## Switching Tape Types

Select type of tape being played.

### Switching Tape Types:

Press the MTL (Metal) button to switch the metal tape indicator on and off and to select the tape type.

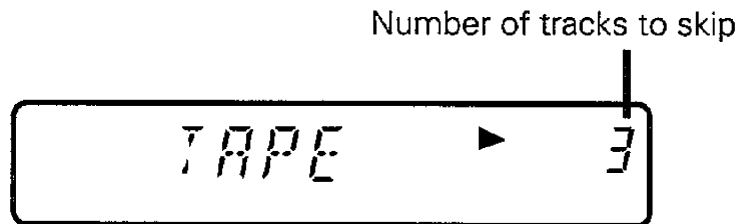
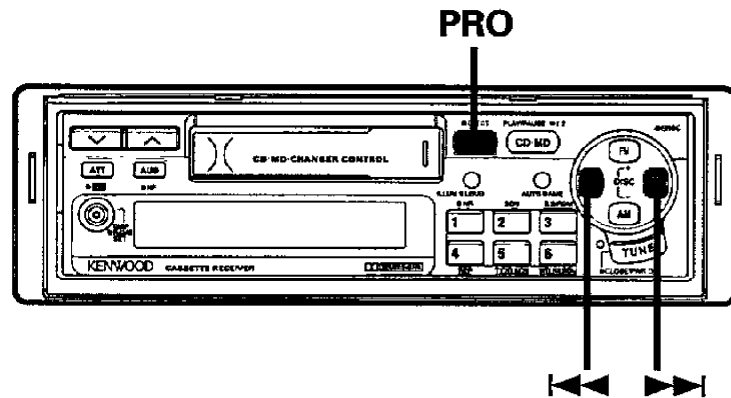
Turn the MTL indicator off for normal tape (Type I) playback.

Turn the MTL indicator on for the following tape types:

CrO<sub>2</sub> (Type II) FeCr (Type III) Metal (Type IV)

Selecting the wrong tape type may cause sound quality to suffer.

## Cassette player features



### Using Direct Program Search System (DPSS)

**Skip forward or backward to other tracks during playback.**

#### ***Skipping to Beginning of Current Track or to Previous Tracks (Rewind DPSS):***

Press the **◀◀** button.

Press once to rewind to the beginning of the current track, twice to rewind to the beginning of the previous track, and so forth.

You can skip up to nine tracks.

Playback is continued after the tape is rewound by the indicated number of tracks.

#### ***Skipping to Later Tracks (Fast Forward DPSS):***

Press the **▶▶** button.

Press once to fast forward to the next track, twice to fast forward to the track after that, and so forth.

You can skip up to nine tracks.

Playback is continued after the tape is fast forwarded by the indicated number of tracks.

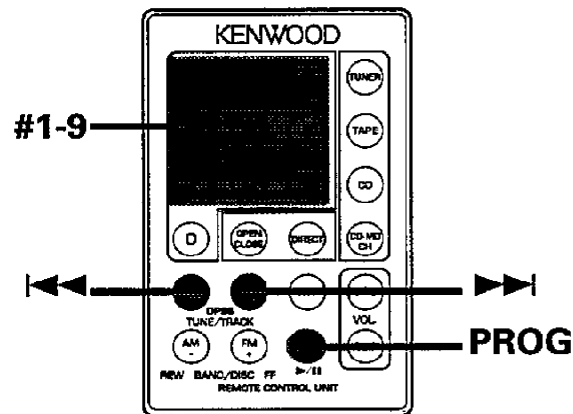
#### **NOTE**

- During the first three seconds of each track, the previous track is considered the "current" track. If you press the **◀◀** button during that period, the tape rewinds to the beginning of the previous track and not the one you are listening to.
- The DPSS function "knows" where a track begins by detecting the blank space preceding it (the space between tracks). However, when the blank space lasts for less than four seconds or contains noise, DPSS may not operate correctly. Furthermore, quiet intervals within a song are detected as "blank spaces" if they last for four seconds or more.

#### ***Canceling DPSS While It Is Operating:***

Press the PRO button.

### Using DPSS with the Remote



**Directly input the number of tracks to skip during playback.**

- 1** Enter the number of tracks you want to skip using the number buttons on the remote. Up to nine tracks can be skipped.
- 2** Press either the **⏮** or **⏭** button while the number is blinking, depending on whether you want to skip backward or forward. Playback starts after the tape rewinds or fast forwards by the specified number of tracks.

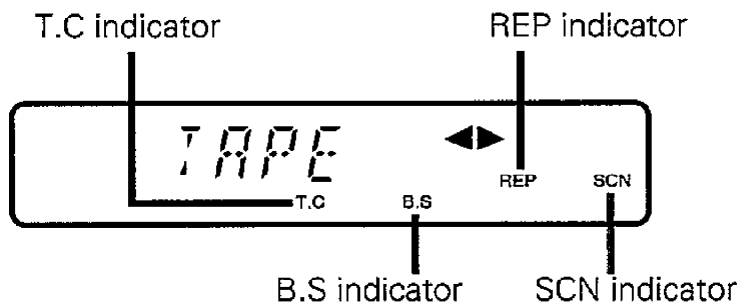
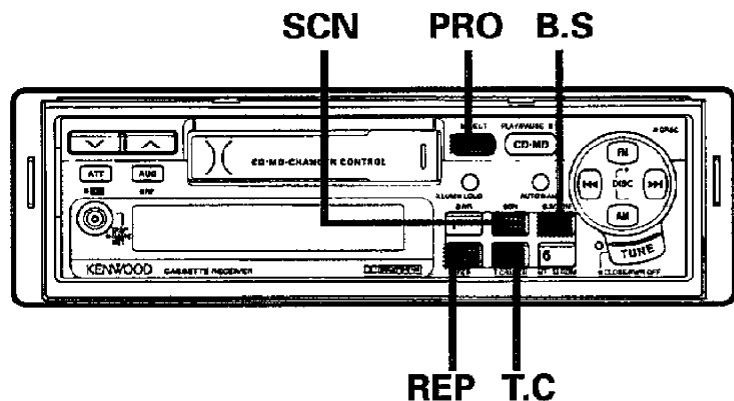
#### NOTE

- During the first three seconds of each track, the previous track is considered the "current" track. If you press the **⏮** button during that period, the tape rewinds to the beginning of the previous track and not the one you are listening to.
- The DPSS function "knows" where a track begins by detecting the blank space preceding it (the space between tracks). However, when the blank space lasts for less than four seconds or contains noise, this function may not operate correctly. Furthermore, sections that are recorded at low levels may trigger the function if they last for four seconds or more.

#### **Canceling DPSS While It Is Operating:**

Press the PROG button.

# Cassette player features



## Blank Skip

Automatically fast forward to the beginning of the next track when long blank spaces (10 seconds or more) are detected, continuing tape playback.

### Turning Blank Skip On/Off:

Press the B.S button to switch blank skip on and off. The B.S indicator lights up when blank skip is turned on.

#### NOTE

- If the blank space contains a lot of noise, blank skip may not work right.
- Sections that are recorded at low levels may trigger blank skip if they last for 10 seconds or more.

## Tuner Call

Switch automatically to the tuner while you are rewinding or fast forwarding the tape.

### Turning Tuner Call On/Off:

Press the T.C button to switch tuner call on and off. The T.C indicator lights up when tuner call is turned on.



### Index Scan

**Successively plays the first few seconds of each track on the tape.**

***Turning Index Scan On/Off:***

Press the SCN button to switch index scan on/off.  
The SCN indicator lights up when index scan is turned on.

***Stopping to Listen to the Track Being Scanned:***

Press either the SCN or PRO button.  
Playback begins as usual.

**NOTE**

- Index scan is canceled when the tape stops.
- Index scan "knows" where a track begins by detecting the blank space preceding it (the space between tracks). However, when the blank space lasts for less than four seconds or contains noise, this function may not operate correctly. Furthermore, sections that are recorded at low levels may trigger the function if they last for four seconds or more.

### Music Repeat

**Repeatedly plays the track currently being listened to.**

***Turning Music Repeat On/Off:***

Press the REP button to switch music repeat on/off.  
The REP indicator lights up when music repeat is turned on.

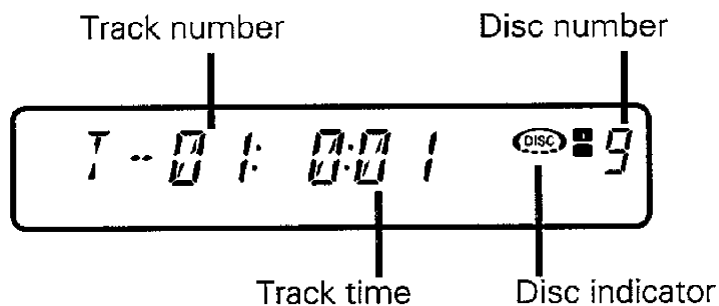
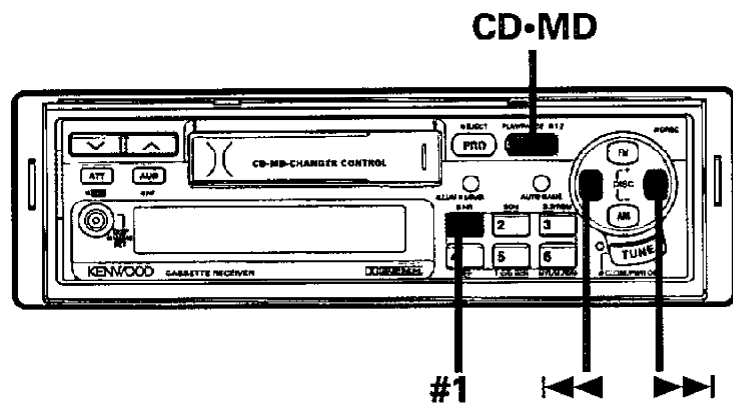
***Canceling Music Repeat:***

Press either the REP or PRO button.

**NOTE**

Music repeat "knows" where a track begins by detecting the blank space preceding it (the space between tracks). However, when the blank space lasts for less than four seconds or contains noise, this function may not operate correctly. Furthermore, sections that are recorded at low levels may trigger the function if they last for four seconds or more.

## Disc changer control features



### Playing Discs Using a Disc Changer

#### Playing Discs:

Press the CD•MD button.

The disc indicator lights up during disc changer mode.

When one disc has finished playing its last track, the next disc in the changer will start playing. When the last disc in the changer has finished, the player will return to the first disc and start playing it.

Disc #10 is displayed as "0".

#### Switching Between Disc Changers:

When two disc changers are connected to the unit, press the CD•MD button for at least one second to switch from one to the other.

#### NOTE

The KCA-S200, which is sold separately, must be installed when two disc changers are connected.

#### Pausing and Restarting Disc Play:

Press the CD•MD button to make the disc pause.

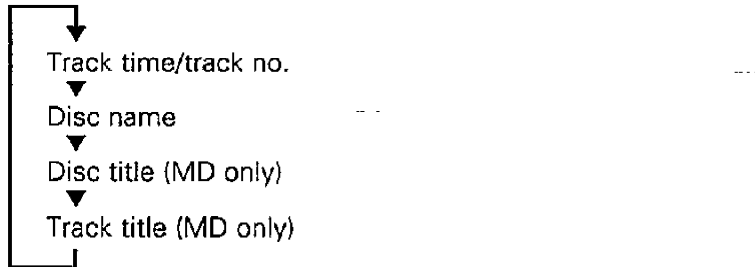
Press the same button again to start play again.

### Switching Display for Discs

Switch the display that appears while discs are playing.

#### **Switching Display for Discs:**

Each time you press button #1, the display during disc play switches as follows:



#### **NOTE**

- You can give names to discs through the presetting disc name function (see p. 35).
- If you try to display the name of a disc that doesn't have one, "NO NAME" is displayed instead.

### Fast Forwarding and Reversing Disc Play

#### **Fast Forwarding Disc Play:**

Hold down on the ►► button.  
Release your finger to play the disc at that point.

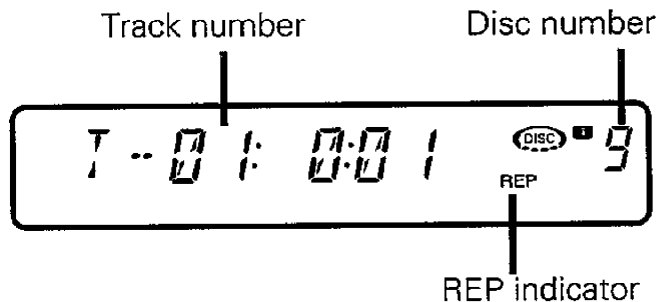
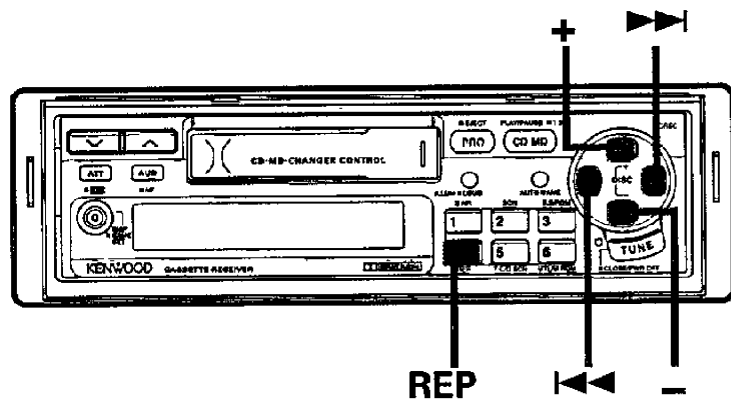
#### **Reversing Disc Play:**

Hold down on the ◀◀ button.  
Release your finger to play the disc at the point.

#### **NOTE**

You cannot use reverse play between tracks when listening to an MD on the MD changer. Instead, the reverse play function is canceled when it reaches the beginning of a track, at which point normal play will automatically resume.

## Disc changer control features



### Track Search

Search forward or backward through the tracks on the disc until you reach the one that you want to listen to.

#### **Making a Reverse Track Search:**

Press the ◀◀ button to display the desired track number. Press once to search back to the beginning of the current track, twice to search back to the beginning of the previous track, and so forth. Play starts at the beginning of the displayed track number.

#### **NOTE**

Pressing the ◀◀ button while listening to track 1 will only search back to the beginning of that track. The reverse search is not "recycled" to the last track on the disc.

#### **Making a Forward Track Search:**

Press the ▶▶ button to display the desired track number. Press once to fast forward to the next track, twice to fast forward to the track after that, and so forth. Play starts at the beginning of the displayed track number.

#### **NOTE**

You cannot make a forward track search when listening to the last track on a disc.

### Disc Search

Search forward or backward through the discs in a disc changer.

#### **Making a Reverse Disc Search:**

Press the **←** button to display the desired disc number. Each time the button is pressed, the displayed disc number decreases by one. Play starts at the beginning of the displayed disc.

#### **Making a Forward Disc Search:**

Press the **+** button to display the desired disc number. Each time the button is pressed, the displayed disc number increases by one. Play starts at the beginning of the displayed disc.

#### **NOTE**

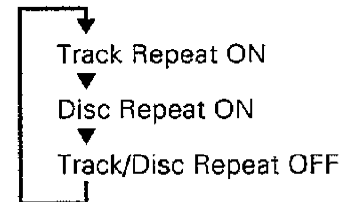
"LOAD" is displayed when discs are being exchanged on the disc changer.

### Track / Disc Repeat

Repeat playing the track or the disc currently being listened to.

#### **Turning Repeat Play On/Off:**

Press the REP button to switch repeat track/disc play on and off as follows:

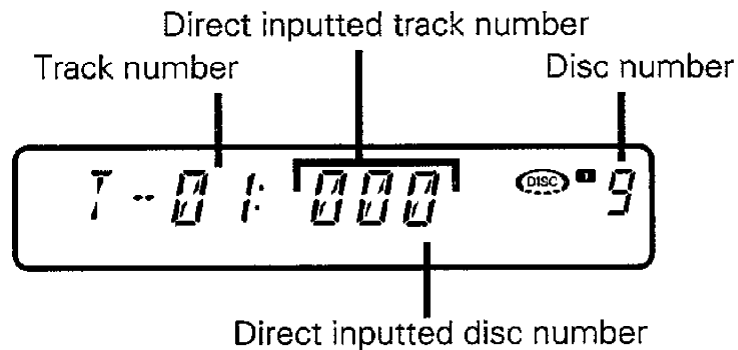
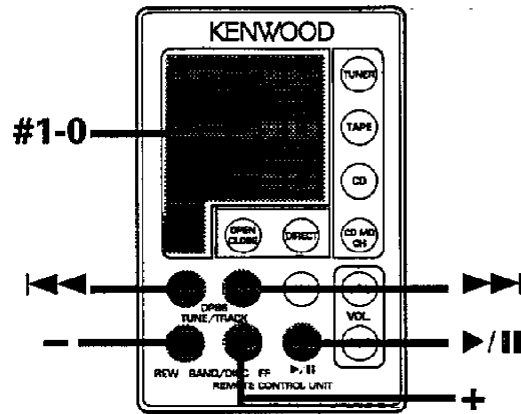


The REP indicator lights up when repeat play is turned on. The track number blinks in the display when track repeat is on. The disc number blinks in the display when disc repeat is on.

#### **NOTE**

Repeat play is canceled when you stop playing the disc.

## Disc changer control features



## Function of Remote

### Direct Track Search

Using the remote, directly input the track number that you want to listen to.

- 1 Using the number buttons on the remote, input the number of the track that you want to listen to. The selected track number will blink in the display for 10 seconds. If you make no further input in the 10-second period, the number entry mode will automatically be canceled.
- 2 Press either the ◀◀ or ▶▶ button while the track number is blinking. The track starts playing.

### Canceling Direct Track Search While It Is Operating:

Press the ▶/II button.

#### NOTE

You cannot use the direct track search function while doing track or disc scans or using random or magazine-random play.

### *Function of Remote*

#### **Direct Disc Search**

**Using the remote, directly input the disc number that you want to listen to.**

- 1** Using the number buttons on the remote, input the number of the disc that you want to listen to.  
The selected disc number will blink in the display for 10 seconds.  
If you make no further input in the 10-second period, the number entry mode will automatically be canceled.

#### **NOTE**

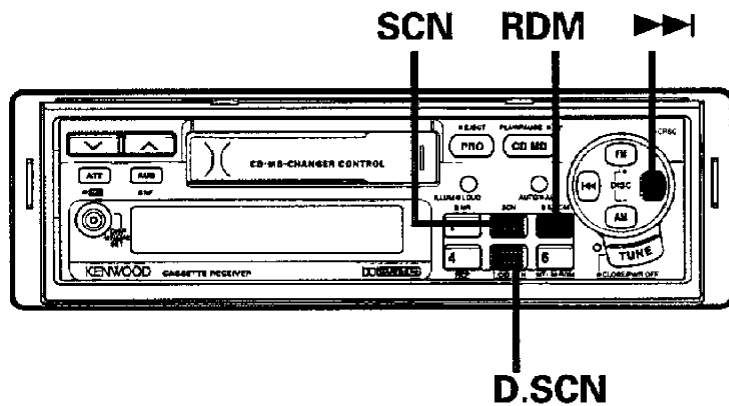
- Input "0" to select disc #10.
- If you input more than two numbers all at once, a search will be made only of the last number input.

- 2** Press either the + or - button while the number inputted is blinking.  
The disc starts playing.

#### **Canceling Direct Disc Search While It Is Operating:**

Press the ►/II button.

## Disc changer control features



### Track Scan

Successively play the beginning of each track on a disc until you find the track that you want to listen to.

#### Turning Track Scan On/Off:

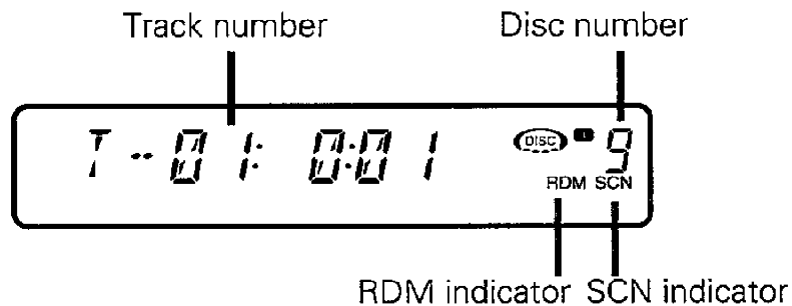
Press the SCN button to switch track scan on and off. The SCN indicator lights up when track scan is turned on. The first 10 seconds of each track will be played, in order. The track number currently being heard blinks in the display.

#### Stopping to Listen to the Track Being Scanned:

Press the SCN button again to stop the scan and keep on listening to a track normally.

#### NOTE

- Track scan is canceled when you stop playing a disc.
- Track scan only scans each track on a disc once.





### Disc Scan

**Successively play the beginning of each disc on a changer until you find the one that you want to listen to.**

#### **Turning Disc Scan On/Off:**

Press the D.SCN button to switch disc scan on and off. The SCN indicator lights up when disc scan is turned on. The first 10 seconds of each disc will be played, in the order they are loaded on the changer. The disc number currently being heard blinks in the display.

#### **Stopping to Listen to the Disc Being Scanned:**

Press the D.SCN button again to stop the scan and keep on listening to the disc normally.

#### **NOTE**

- Disc scan is canceled when you stop playing a disc.
- Disc scan only scans each disc on the changer once.
- "LOAD" is displayed when discs are being exchanged on the disc changer.

### Random Play

**Play all the tracks on the current disc in random order.**

- 1** Press the RDM button to switch random play on and off. The RDM indicator lights up when random play is turned on. The track number will change over and over in the display as the next track is being selected. When the track has been selected, play will begin. The selected track number blinks in the display as it is being played.

#### **NOTE**

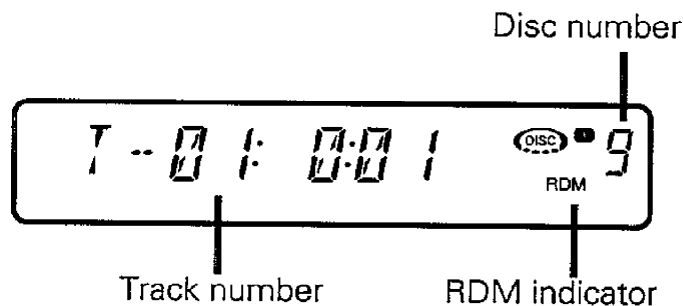
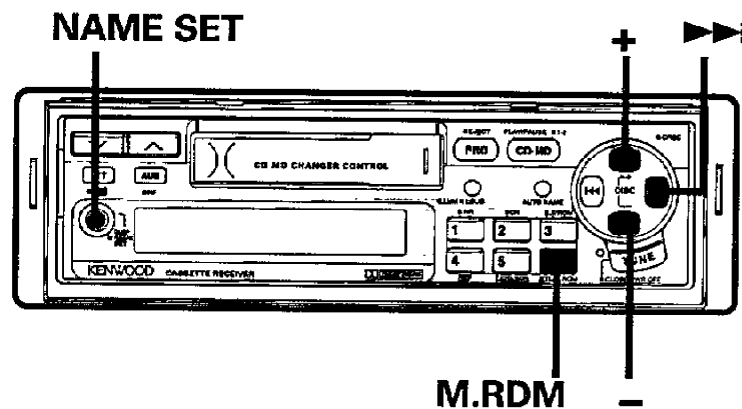
When all the tracks on a certain disc have been played using random play, the next disc on the changer will start playing using the same function.

- 2** To change the track being heard, press the ►►I button. Another track will be selected and played.

#### **NOTE**

Random play is canceled when you stop playing a disc.

## Disc changer control features



### Magazine Random Play

Play the tracks on all the discs in the disc changer in random order.

- 1 Press the M.RDM button to switch magazine random play on and off. The RDM indicator lights up when magazine random play is turned on. The disc and track numbers will change over and over in the display as the next track is being selected. When the disc/track has been selected, play will begin. The selected disc/track number blinks in the display as it is being played.

#### NOTE

This function is not available with the following models:  
KDC-C200/C300/C400/C301/C401

- 2 To change the track being heard, press the ►► button. Another disc/track will be selected and played.

#### NOTE

- Magazine random play is canceled when you stop playing a disc.
- The time needed for random selection depends on the number of discs loaded in the disc magazine.

### Presetting Disc Names

#### Store the names of discs to be displayed when played.

- 1 Play the disc whose name you want to preset.

#### NOTE

- This function is available when one of the following disc changers is connected to your unit:  
C705i, KDC-C803, KMD-C80, KDC-C604
- This procedure is not to be used to store the disc and track titles for MDs that you record.

- 2 Press the NAME SET button for at least two seconds. "NAME SET" is displayed and the disc name preset mode is entered.  
The cursor blinks in the position where character input can be made.

- 3 If the cursor is in the correct position, go to step 4. If not, press either the ◀◀ or ▶▶ button to move the cursor to the desired character input position.  
The ◀◀ button moves the cursor to the left and the ▶▶ button moves it to the right.

- 4 Press the + or - button to display the desired character.

- 5 Continue steps 3 and 4 until all the characters are chosen for the name.

#### NOTE

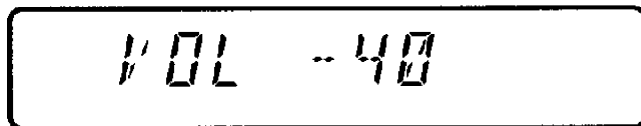
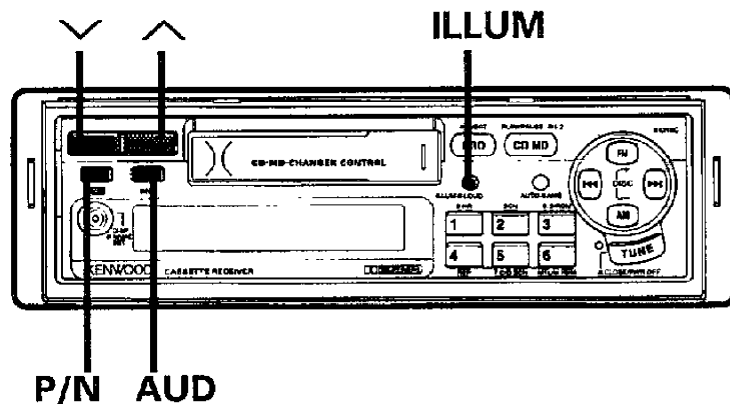
- You can enter up to eight characters for each name.
- Besides the alphabet (capital letters only) and numbers, you can choose the following characters: [, ], /, +, -, \*, =, <, and >.

- 6 Press the NAME SET button again to finish name entry and leave name preset mode.  
The disc name is stored and the disc name preset mode is canceled.  
If you make no entry in a 10-second period, the name will be stored with the characters input so far.

#### NOTE

- With the CD changer, you can only store names for up to 100 CDs (30 for KDC-C604), and with the MD changer, you can only store names for up to 30 MDs. If you store the name for a 101th CD or 31st MD, the first name stored for the type of disc will be erased automatically.
- Discs are identified by their total length and number of tracks. If another disc happens to have the same specifications as one that you have already stored a name for, the name will be displayed for it, too.
- If you want to change the name of a disc, repeat steps 1 and 2 to display the name, and then repeat steps 3 and 4 to input the changes.
- Pressing the reset button does not erase the disc names stored in a disc changer.

## Other features



## Audio Control Setting

Adjust various parameters of sound quality.

- 1 Press the AUD button to enter the control mode. Each time the AUD button is pressed, the adjustment mode display changes as follows:  
▶ Bass ▶ Treble ▶ Balance ▶ Fader  
Volume ◀ N-F Level (only when being switched) ◀  
If you do not move to step 2 in five seconds, the unit will switch back to the volume adjustment mode (that is the normal mode).

**NOTE** Source tone memory

Each source has its own memory in which to store the bass and treble tone settings. The settings made for a particular source are recalled automatically whenever you use that source (for example, tape mode uses the tone settings made for tape, FM for FM, etc.).

- 2 Press the  $\nabla/\blacktriangle$  buttons to adjust the mode shown in the display. Adjust each mode according to the table on p. 37.

Adjustment mode (Display)	Operation of Audio control button	
	∨ button	∧ button
Bass ("BAS")	Bass decreased	Bass increased
Treble ("TRE")	Treble decreased	Treble increased
Balance ("BAL")	Left channel emphasized	Right channel emphasized
Fader ("FAD")	Rear channel increased	Front channel increased
Non-Fading Preout Level ("NF")	Front and rear channels (including pre-out) emphasized	Non-fading sound emphasized

**NOTE**

The balance of the non-fading sound cannot be adjusted.

## Selectable Illumination

Select the colors used to illuminate the display.

**Switching the illumination:**

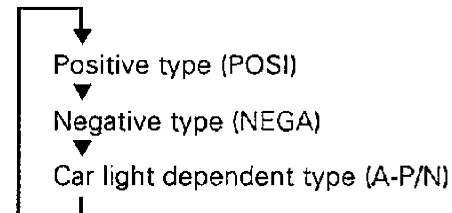
Press the ILLUM button to switch between amber and green.

## Display Type

Switch the display between negative and positive.

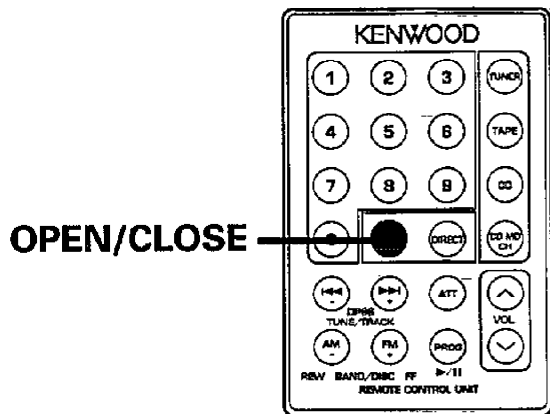
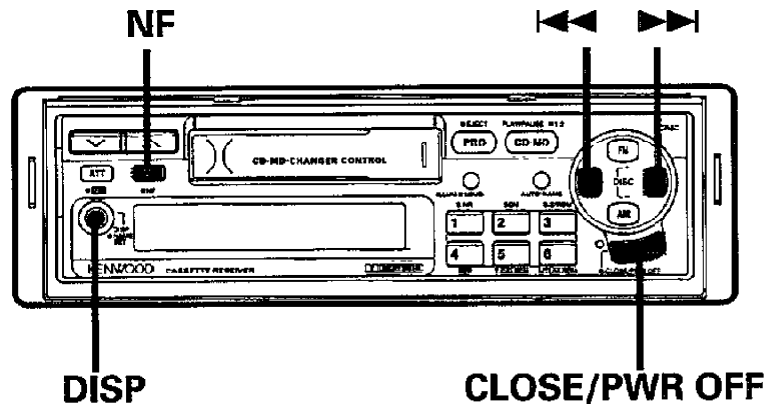
**Switching Display:**

Press the P/N button for at least one second to switch the illumination setting as follows:



When you select the car light dependent type, negative will be chosen when the car lights are turned on, and positive when the lights are turned off. The factory default is car light dependent.

## Other features



### Switching Preout

Switch the front preout to non-fading.

#### Switching front preout:

Press the NF button for at least three seconds to switch front preout to non-fading.

"NF ON" is displayed when non-fading is selected.

When non-fading is selected, the high-path filter is automatically applied to the output of the front and rear channels (including preout).

#### NOTE

- When the front preout is switched to "non-fading", the level difference between this preout and the rear preout and front and rear channels can be adjusted. The "non-fading" preout level remains the same while the rear preout and front and rear channel levels decrease by the value set for the "non-fading" feature (see p. 36).
- When the front preout is switched back again, the volume level and fader control settings are returned to the factory set values.

### Clock Display

Displays the time.

#### Switching to Time Display:

Press the DISP button to display the time.

## Adjusting Time

### Adjust the time.

- 1 When the time is not displayed, first press the DISP button to display the time.
- 2 While holding down the DISP button, press the ◀◀ or ▶▶ buttons to adjust the time. The ◀◀ button adjusts the hour and the ▶▶ button adjusts the minutes.

## Valet Mode

**Disable the Stealth Faceplate Cover when you leave your car with another person (such as the valet at a parking lot), preventing him or her from using your audio system.**

### **Connecting the Valet Wire:**

Connect the pink valet wire from the unit to one side of an ON/OFF switch, then connect the other side of the switch to ground (the car's chassis).

### **Activating Valet Mode:**

- 1 Turn the Valet ON/OFF switch to ON.
- 2 Turn the power off by performing one of the following operations.  
Turn off your car's ignition, or press the CLOSE/PWR OFF button for at least one second, or press the OPEN/CLOSE button on the remote.  
The Valet mode is activated, and the faceplate cover closes to hide the unit. As long as the Valet mode is ON, the unit cannot be used.

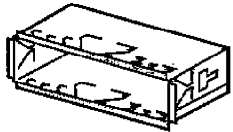

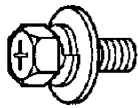
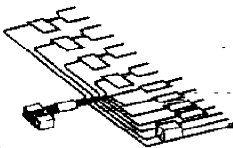




#### **NOTE**

You can reverse the order of steps 1 and 2 and still activate the valet mode.

### **Canceling Valet Mode:**

Turn the Valet ON/OFF switch to OFF.  
When you turn on the car and the audio system, the faceplate cover opens.

# Accessories

External view	Part name	Number of items	External view	Part name	Number of items	External view	Part name	Number of items
	Mounting sleeves	1		Removal tool	2		Hex head machine screw with washer (M4x8)	1
	Wiring harness	1		Cap (Panel spacer)	2		Phillips truss head machine screw (M5x6)	2
	Metal mounting strap	1		Phillips flush head machine screw (M5x6)	2			

**CAUTION**

Do not use any accessories other than those provided with your unit. If you use other accessories, you may damage the unit.



## Installation Procedure

1. To prevent a short circuit, remove the key from the ignition and disconnect the  $\ominus$  battery.
2. Make the proper input and output wire connections for each unit.
3. Connect the speaker wires of the wiring harness.
4. Connect the wiring harness wires in the following order: ground, battery, ignition.
5. Connect the wiring harness connector to the unit.
6. Install the unit in your car.
7. Reconnect the  $\ominus$  battery.
8. Press the bottom left part of the guide frame to expose the front panel, then press the reset button.

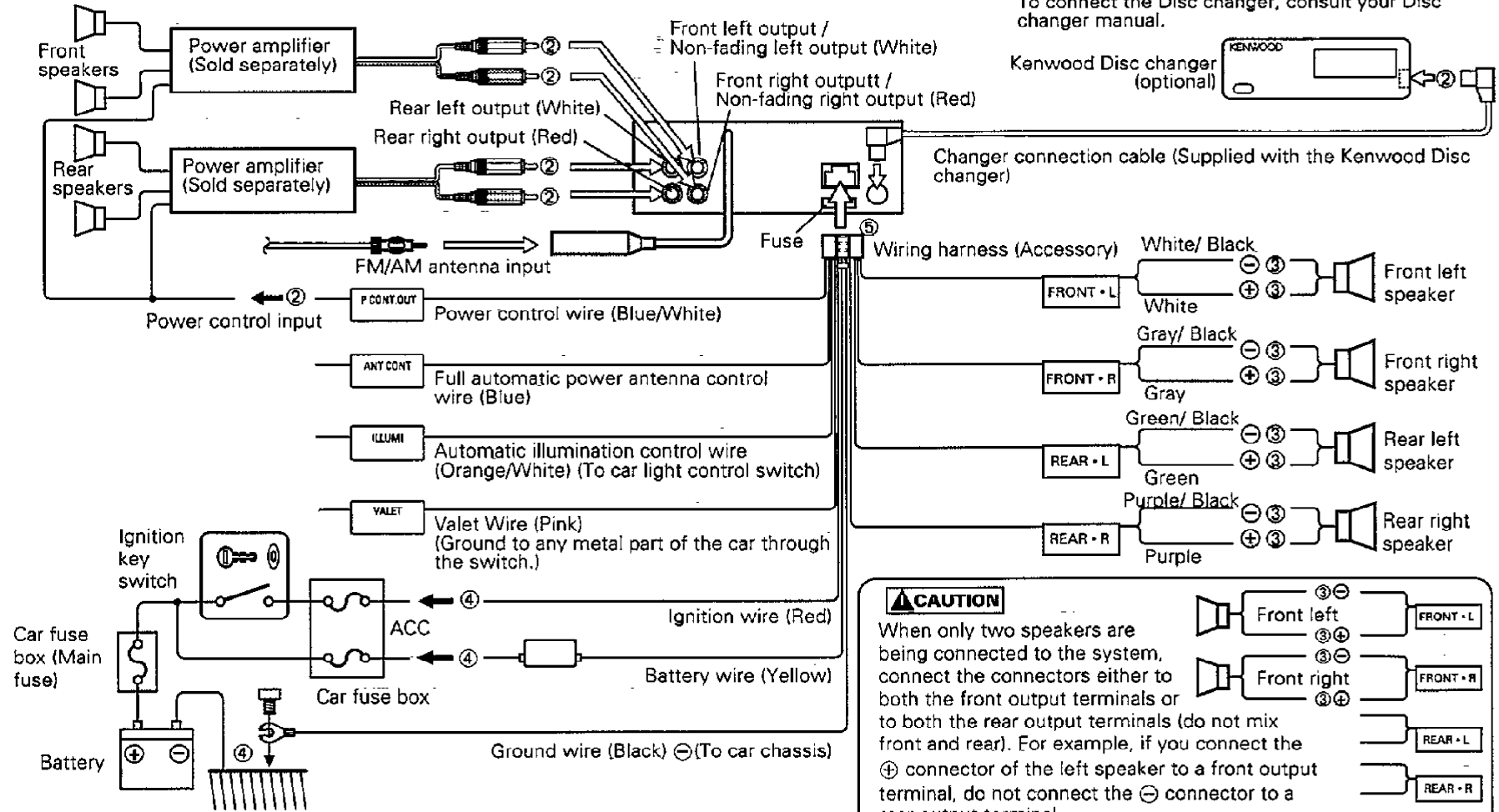
### **CAUTION**

- If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, as with battery wires, the battery may die.
- If the console has a lid, make sure to install the unit so that the cover will not hit the lid when closing and opening.
- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.
- Do not let unconnected wires or terminals touch metal on the car or anything else conducting electricity. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may receive damage or fail to work if you share the  $\ominus$  wires or ground them to any metal part in the car.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Some disc changers need conversion cords for connection. See the section on "Safety Precautions" for details.
- Insulate unconnected wires with vinyl tape or other similar material.
- Do not press on the cover during installation, as that could deform the cover and lead to unit damage. When installing the unit onto the mounting sleeve, press the guide frame.

# Connecting Wires to Terminals

**NOTE** Circled numbers indicate the steps described in the installation procedure.

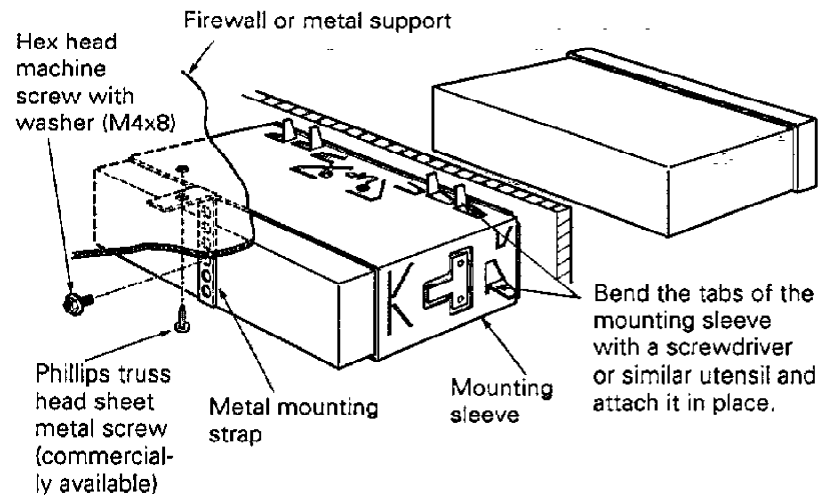
**NOTE** To connect the Disc changer, consult your Disc changer manual.



**WARNING** If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.

# Installation

## ■ Installation



### ⚠ CAUTION

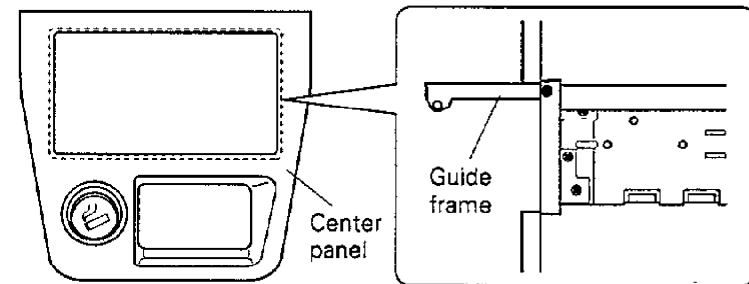
Attach the mounting sleeve with the letters "UP" facing up. If you attach it upside-down, the unit cannot be removed using the removal tool.

### NOTE

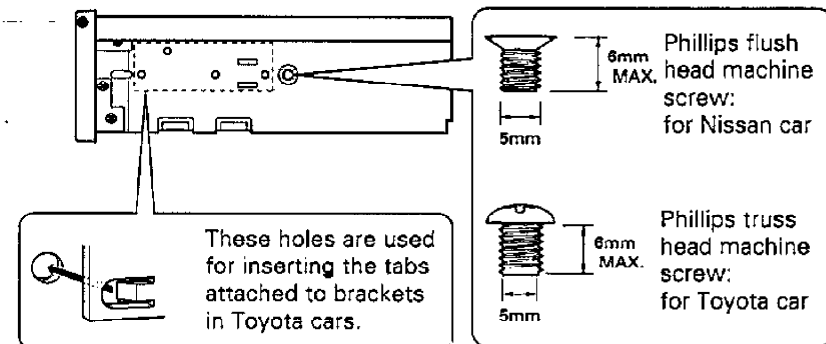
Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (for example, the sound may skip).

## ■ Installing in Japanese-Made Cars

- 1 If the guide frame hits the center panel (as shown), the cover will have problems opening and shutting. To prevent this, cut the center panel around the unit.



- 2 Fix the unit securely to the brackets in the car using the machine screws (M5x6) provided.



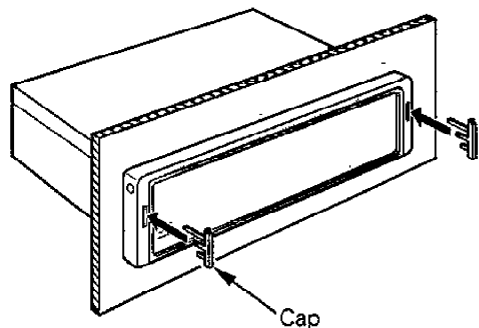
### ⚠ CAUTION

Do not use any screws other than those provided, as they may damage the unit.

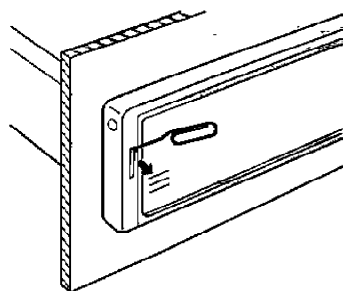
# Installation

## ■ Inserting Caps in and Removing Caps from Removal Tool Slots

- 1 Insert the two caps in the slots on the sides of the unit, as shown.

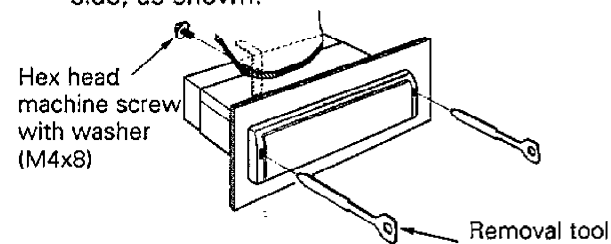


- 2 To remove the caps from the removal tool slots, insert a pointed object in the small indentations (as shown) and pull them out.

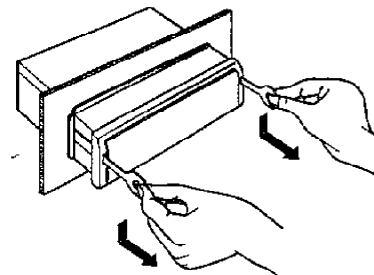


## ■ Removing the Unit

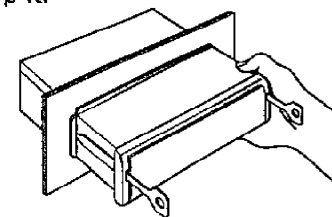
- 1 Remove the hex head machine screw with washer on the back panel.
- 2 Insert the two removal tools deeply into the slots on each side, as shown.



- 3 Push down on the tools and pull them towards you until the unit is halfway out.



- 4 Pull the unit all the way out with your hands, being careful not to drop it.



# Troubleshooting Guide

What might seem to be a malfunction in your unit may just be the result of slight misoperation or miswiring. Before calling service, first check the following table for possible problems.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The power does not turn on.	The fuse has blown.	After checking for short circuits in the wires, replace the fuse with one with the same rating.
No sound can be heard, or the volume is low.	The volume has been turned all the way down.	Turn up the volume.
	Attenuator is turned on.	Turn off the Attenuator.
	The fader or balance settings are set all the way to one side.	Reset the fader or balance settings.
	The input/output wires or wiring harness are connected incorrectly.	Reconnect the input/output wires or the wiring harness correctly. See the section on "Connecting Wires to Terminals".
	The cassette tape is bad.	Try playing another cassette tape. If works fine, the first tape was bad.
Nothing happens when the buttons are pressed.	The computer chip in the unit is not functioning normally.	Press the reset button on the unit (see p. 5).
The sound quality is poor or distorted.	The volume is too high.	Turn down the volume.
	The tape head is dirty.	Clean the tape head, referring to the section on "Cleaning the tape head" (see p.5).
	One of the speaker wires is being pinched by a screw in the car.	Check the speaker wiring.
	A speaker wire is being shared by two speakers.	Reconnect the speaker wires so that each output terminal is connected to a different speaker.
A cassette cannot be loaded.	The cassette is deformed.	
	The cassette has been inserted backward.	Load the cassette with the tape exposed on the right.
Radio reception is poor.	The car antenna is not extended.	Pull the antenna out all the way.
	The antenna control wire is not connected.	Connect the wire correctly, referring to the section on "Connecting Wires to Terminals".

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## Troubleshooting Guide


<b>PROBLEM</b>	<b>POSSIBLE CAUSE</b>	<b>SOLUTION</b>
Tape mode cannot be selected.	No cassette has been inserted.	Load a cassette into the unit.
The memory is erased when the ignition is turned off.	The battery wire has not been connected to the proper terminal.	Connect the wire correctly, referring to the section on "Connecting Wires to Terminals".
The cover doesn't open.	The ambient temperature is too low.	Warm up your car.
	The valet mode is ON.	Turn off the valet mode.

## Disc Changer

PROBLEM	POSSIBLE CAUSE	SOLUTION
The disc changer mode cannot be selected.	No cable has been connected to the disc changer input terminal on the unit.	Connect the cable to the disc changer input terminal on the unit.
The disc does not play.	The power has not been turned on.	Turn the power on and select the disc changer mode.
The specified disc does not play, but another one plays instead.	The specified CD is quite dirty.	Clean the CD.
	The CD is upside-down.	Load the CD with the labeled side up.
	Two CDs are loaded in the same slot.	Eject the disc magazine and insert the CDs in two different slots.
	The disc is loaded in a different slot from that specified.	Eject the disc magazine and check the number for the specified disc.
	The disc is severely scratched.	Try another disc instead.
The sound skips.	Something is touching the disc changer.	Remove whatever is touching it.
	The CD is scratched or dirty.	If skipping happens at the same place when the car is stopped, something with the CD is wrong. Clean the CD.
The sound quality of the disc is poor.	The disc recording is poor.	Try another disc for comparison. If it is alright, the first disc was bad.
	The CD is scratched or dirty.	Clean the CD.
The display shows that the changer is being played, but no sound can be heard.	The volume has been turned all the way down.	Turn up the volume.
	The computer chip in the unit is not functioning normally.	Press the reset button on the unit (see p. 5).
	The system has not been connected properly.	Connect the wires correctly, referring to the section on "Connecting Wires to Terminals".
The specified track will not play.	Random play or magazine random play has been selected.	Turn off random play or magazine random play.

## Troubleshooting Guide

The following messages are displayed when certain problems are occurring in your system. Take the recommended actions.

- EJECT** No disc magazine has been loaded in the changer. The disc magazine is not completely loaded.  
⇒ Load the disc magazine properly.
- NO DISC** No disc has been loaded in the disc magazine.  
⇒ Load a disc into the disc magazine.
- E-04** The CD is quite dirty. The CD is upside-down. The CD is scratched a lot.  
⇒ Clean the CD and load it correctly.
- BLANK** Nothing has been recorded on the MD.  
⇒ The next MD will automatically be played.
- NO TRACK** No tracks are recorded on the MD, although it has a title.  
⇒ The next MD will automatically be played.
- E-99** The unit is malfunctioning for some reason.  
⇒ Press the reset button on the unit. If the "E- 99" code does not disappear, consult your nearest service center.
- HOLD** The protective circuit in the unit activates when the temperature inside the automatic disc changer exceeds 60°C (140°F), stopping all operation.  
⇒ Cool down the unit by opening the windows or turning on the air conditioner. As the temperature falls below 60°C (140°F), the disc will start playing again.
-  If this indicator continues blinking, it is possible that the tape has become jammed or tangled.  
Contact the Kenwood dealer if the tape cassette cannot be ejected.



# Specifications

Specifications subject to change without notice.

## FM tuner section

Frequency range (200 kHz Space)	87.9 MHz – 107.9 MHz
Usable sensitivity (S/N = 30dB)	9.3dBf (0.8 $\mu$ V/75 ohms)
Quieting Sensitivity (S/N = 50dB)	15.2dBf (1.6 $\mu$ V/75 ohms)
Frequency response ( $\pm$ 3.0 dB)	30 Hz – 15 kHz
Signal to Noise ratio (MONO)	75 dB
Selectivity ( $\pm$ 400 kHz)	$\geq$ 80 dB
Image Response Ratio	70 dB
IF Response Ratio	120 dB
Stereo separation (1 kHz)	40 dB

## AM tuner section

Frequency range (10 kHz space)	530 kHz – 1700 kHz
Usable sensitivity	28 dB (25 $\mu$ V)

## Cassette player section

Tape speed	4.76 cm/sec.
Wow & Flutter (WRMS)	0.08 %
Frequency response (70 $\mu$ s)	30 Hz – 20 kHz ( $\pm$ 3 dB)
Separation (1 kHz)	43 dB
Signal to Noise ratio (Dolby B/C NR OFF)	57 dB
(Dolby B NR ON)	65 dB
(Dolby C NR ON)	73 dB

## Audio section

Maximum output power	35 W $\times$ 4
Full bandwidth power (at less than 1% THD)	20 W $\times$ 4
Tone action	
Bass:	100 Hz $\pm$ 10 dB
Treble:	10 kHz $\pm$ 10 dB
Preout level / Load	1800 mV / 10 k ohms
Preout Impedance	$\leq$ 600 ohms

## General

Operating voltage	14.4 V (11 – 16 V allowable)
Current consumption	10 A at Rated power
Installation size (W $\times$ H $\times$ D)	182 $\times$ 53 $\times$ 163 mm
	7-3/16 $\times$ 2-1/16 $\times$ 6-7/16 in.
Weight	2.0 kg
	4.4LBS

KENWOOD