

KENWOOD

CASSETTE RECEIVER

KRC-980 KRC-880

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-980/880 Serial number

Contents

Before use

Safety precautions	3
Care and Maintenance.....	4
Features	5

Basic operations

Power/Volume/Attenuator.....	8
Loudness.....	9
Auto seek tuning	10
Manual tuning	11
Local seek	12
Cassette tape play	13
Dolby B/C NR	14
Dolby B NR	15
Tape type selection	16
Basic operations of remote control	17

Tuner features

Station preset memory.....	20
Auto memory entry.....	21
Priority radio preset	22
CRSC	23
Direct access tuning	24
Tuner timer	25
Channel space selection	26

Cassette player features

DPSS	27
DPSS using numeric keys	28
Index scan.....	29
Music repeat	30
Blank skip.....	31
Tuner call	32

CD auto-changer control features

CD play with CD auto-changer.....	33
Track/Disc search	34
Direct track/disc search.....	35
Track/Disc repeat.....	36
Track scan	37
Disc scan	38
Random play	39
Magazine random play	40

Other features

Selectable illumination/Display type.....	41
Audio controls	42
Clock display/setting	44
Front preout control.....	45
Theft deterrent faceplate	46
Disabled system indicator	47

Installation

Accessories.....	48
Installation procedure.....	49
Connections.....	50
Installation	52

Troubleshooting guide

Specifications

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Safety precautions

▲WARNING

Take the following precautions to prevent fire and avoid personal injury :

- Press in the faceplate until it is firmly locked to the main unit to prevent it from being detached in an accident.
- When extending the power supply cable, memory backup cable, or ground cable, use 0.75mm² (AWG18) or larger automotive grade cable to avoid cable deterioration or damage to the covering.
- Check that no metal objects (coins, tools, etc.) are left inside the unit to avoid short circuits.
- If you smell or see smoke, turn the power off immediately and consult your Kenwood dealer.

▲CAUTION

Take the following precautions to keep the unit in proper working order.

- Be sure the unit is connected to a 12V DC power supply with a negative ground connection.
- Do not open the top or bottom cover.
- Do not install the unit in places it is exposed to direct sunlight, high heat or humidity, water may splash over it, or dust exists.
- Do not store the detached faceplate or faceplate storage case in places it is exposed to direct sunlight or high heat.
- Do not splash water on the faceplate.
- The faceplate is a precision piece of equipment that contains sensitive parts. Do not subject it to excessive shock.
- Do not touch the terminals of the faceplate or the unit.
- If you need to replace the fuse, make sure the new fuse is of the same type and rating. Using a fuse of a different type of rating may damage your unit. The fuse rating is normally shown on the fuse and fuse box.

NOTE

- If you have difficulty in installing this unit in your vehicle, contact your Kenwood dealer.
- If it doesn't seem to be working properly, first press the Reset button. If the malfunction persists, consult your Kenwood dealer.

IMPORTANT INFORMATION

This unit is NOT designed to be connected directly to a CD changer that was manufactured and sold before 1994. If you plan to use such units, please read the following information carefully.

- **To control KDC-C200 / KDC-C300 / KDC-C400**
A CA-DS100 (sold separately as an optional accessory), along with the control box and extension cord supplied with the CD changer, are required.
- **To control KDC-C301 / KDC-C600 / KDC-C800 / KDC-C601 / KDC-C401**
A CA-DS100 (sold separately as an optional accessory), along with the extension cord supplied with the CD changer, are required.
- **KDC-C100 / KDC-C302 / C205 / C705 and CD changer Manufactured by Other Companies are not compatible with this Kenwood model.**

FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN DAMAGE TO THIS UNIT AND/OR THE CD CHANGER

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.

Care and Maintenance

Before use

Cleaning the unit

- If the front panel is dirty, wipe it clean with a silicon cloth or soft dry cloth with the power off.

CAUTION

Do not use hard cloths or paint thinner, alcohol, or other volatile solvents. These may damage external surfaces or remove indicator characters.

Cleaning the faceplate terminal

- If the faceplate terminal or mount faceplate terminal becomes dirty, wipe it clean with a soft dry cloth.

Cleaning the tape head

- As you play tapes for a long time, magnetic dust and other grime accumulates around the heads and eventually causes noise that lowers sound quality. To clean the heads, use a cleaning tape or cleaning kit. Make sure you purchase a cleaning tape or cleaning kit suited to car audio use.

Be careful with your tapes.

- Before loading a cassette, take up any slack tape, by turning one of the spools with a pencil. Loading a slack tape can cause tape to tangle around the capstan and pinch roller and other problems.
- Do not use any deformed cassettes or cassettes with labels coming off, or the unit may fail.
- Do not leave cassettes exposed to high heat (for example, on the dashboard where it is exposed to direct sunlight, or near heater outlets). This can deform the cassette shell.
- Avoid long cassettes, such as 120-minute tapes. The tape is thin and easily tangled around the pinch roller or other parts.

Features

■ Tuner section

- **Auto seek tuning (Page 10)**
Automatically searches for stations you can receive.
- **Local seek (Page 12)**
When this feature is turned on, the tuner scans only the stations offering good reception during Auto seek tuning and Auto memory entry.
- **Station preset memory (Page 20)**
Stores the frequencies of your favourite stations in memory. The frequencies stored in memory can be recalled by a single touch of a button.
- **Auto memory entry (Page 21)**
Automatically stores the stations in the band you are listening to in memory. You can tune to the stations stored in memory by a single touch of a button in the same way as for the Stations preset memory function. If you use this function when you drive a long way and do not know what stations are available there, you can check the programmes broadcast by local stations by recalling them by a single touch of a button.
- **Priority radio preset (Page 22)**
This function enables you to tune to the preset station by a single touch of a button while you are listening to a cassette or disc. Since you can listen to a station without switching to the tuner mode, it is useful to listen your favourite station (such as news, traffic information).
- **CRSC (Clear Reception System Circuit) (Page 23)**
When this feature is turned on, the tuner switches reception to mono to reduce multi-path noise if it occurs in the broadcast you are listening to.
- **Direct access tuning (Page 24)**
This feature allows you to listen to the station of your choice immediately by inputting its frequency. (Remote control function)
- **Tuner timer (Page 25)**
When this feature is turned on, the tuner automatically tunes to the station you have specified at the time you have set provided the unit power is on.
- **Channel space selection (Page 26)**
This feature allows you to change the frequency step between 200 kHz in FM/10 kHz in AM and 50 kHz in FM/9 kHz in AM.

Features

Before use

■ Cassette player section

• **Tape type selection (Page 16)**

The Tape type selection function allows you to play normal tapes and metal (chrome) tapes.

• **DPSS (Direct Program Search System) (Page 27)**

This function lets you select tracks up to nine positions before or after the one you are playing.

• **DPSS using numeric keys (Page 28)**

This feature allows you to skip ahead or back a specified number of tracks by pressing the appropriate numeric keys. (Remote control function)

• **Index scan (Page 29)**

When this function is turned on, the first part of each track on the tape is played in succession. This function is useful to search for the track you want to listen to.

• **Music repeat (Page 30)**

When this function is turned on, the player plays the track you are listening to repeatedly.

• **Blank skip (Page 31)**

When this feature is turned on, the player automatically fast forwards to the next track if it detects a long blank section.

• **Tuner call (Page 32)**

When this function is turned on, you can listen to the radio while rewinding or fast forwarding a cassette.

■ CD changer control section

• **CD auto-changer control (Page 33)**

This unit has a CD auto-changer control function.

• **Track / Disc search (Page 34)**

You can search for the track / disc you want by specifying the track / disc number.

• **Direct track/disc search (Page 35)**

This feature allows you to enter the number of the track or disc you wish to hear by pressing the appropriate numeric keys. (Remote control function)

• **Track repeat (Page 36)**

When this function is turned on, the track you are listening to is played repeatedly.

• **Disc repeat (Page 36)**

When this function is turned on, the disc you are listening to is played repeatedly.

• **Track scan (Page 37)**

When this function is turned on, the first part of each track on the disc you are listening to is played automatically to help you find the one you want.

• **Disc scan (Page 38)**

When this function is turned on, the first part of each disc in the CD auto-changer is played automatically to help you find the one you want from the magazine loaded in the CD auto-changer.

• **Random play (Page 39)**

When this function is turned on, the tracks on the disc you are listening to are played in random order.

• **Magazine random play (Page 40)**

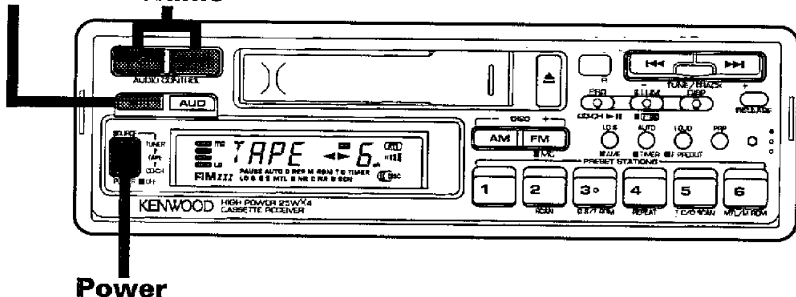
When this function is turned on, the tracks on the discs in your CD auto-changer are played in random order.

■ General section

- **Remote control (Page 17)**
This unit can be operated with the wireless remote control.
There are also convenient features available only with the remote control. (KRC-980; accessory, KRC-880; optional)
- **Attenuator (Page 8)**
This function allows you to lower the volume quickly. The fade-in function is provided to restore the original volume gradually.
- **Loudness control (Page 9)**
When this function is turned on when the volume level is low, sound is made clear by emphasizing bass and treble.
- **Audio controls (Page 42)**
Adjust the bass, treble, balance, and fader.
- **Selectable illumination (Page 41)**
Allows illumination colour to be switched between green and orange.
- **Selectable display type (Function of KRC-980) (Page 41)**
Allows the display type to change between negative and positive.
- **Clock display (Page 44)**
The time can be displayed.
- **Front preout control (Function of KRC-980) (Page 45)**
The front preout can be set as a Non-fading preout, which is not affected by fader adjustment.
- **Theft deterrent faceplate (Page 46)**
The faceplate is detachable. When you leave the vehicle, you can take the faceplate with you to help prevent theft.
- **Disabled system indicator (Page 47)**
When the faceplate is detached from the unit, the LED blinks.
- **Automatic illumination control**
When the illumination cable is connected, the display panel lights up when the vehicle's lights are on even if the power is off. You can turn the power on easily in darkness. If the disabled system indicator function is on and the faceplate is removed, the Disabled System indicator LED lights to remind you to reattach the faceplate.
- **Automatic dimmer control**
When the dimmer cable is connected, automatically dims the display when the car's light control is turned on.

Power/Volume/Attenuator

Attenuator Volume



To turn the power on

Press the Source button.

NOTE

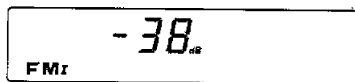
Perform the following operations with the power on.

To turn the power off

Press the Source button for more than a second.

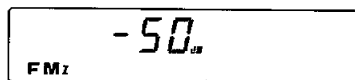
To increase the volume

Press the Audio up button.



To decrease the volume

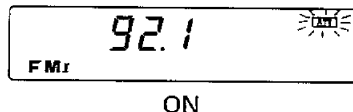
Press the Audio down button.



To use the Attenuator function

Press the Attenuator button.

The Attenuator indicator will appear on the display and Attenuator function will turn on.

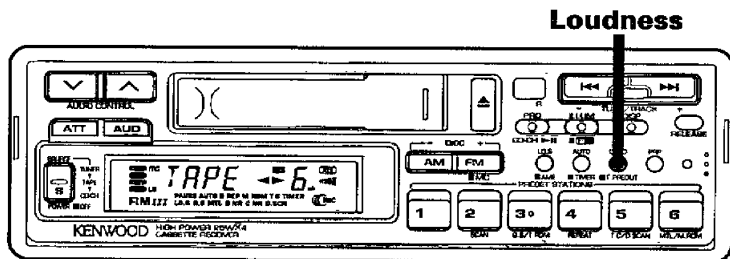


To cancel the Attenuator function

Press the Attenuator button or set the volume to minimum.

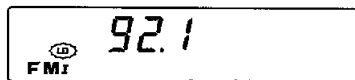
The Attenuator indicator disappears and the Attenuator function is cancelled.

Loudness



To use loudness control

Briefly press the Loudness button. Loudness is turned on and the Loudness indicator appears on the display.

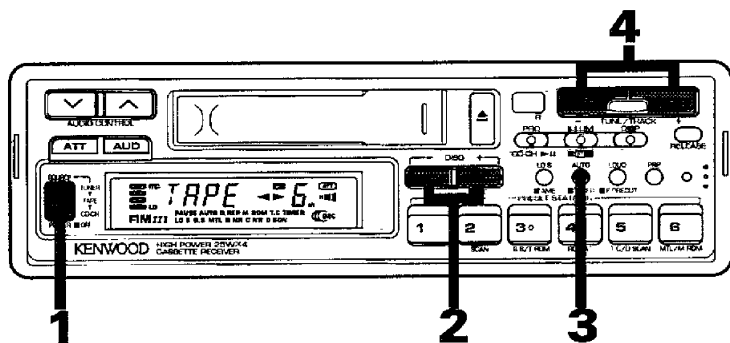


ON

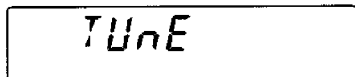
To cancel loudness control

Briefly press the Loudness button. Loudness is turned off and the Loudness indicator disappears.

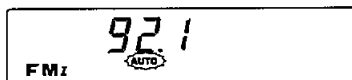
Auto seek tuning



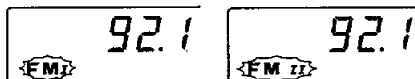
- 1** Listen to the radio
Press the Source button to select Tuner mode.
When "TUnE" is displayed, you are in Tuner mode.



- 3** To select Auto seek tuning mode
Briefly press the Auto button.
The Auto indicator will appear on the display and Auto seek tuning will turn on. This function is factory-set to ON.

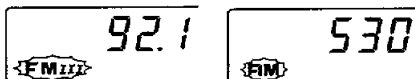


- 2** To select a band
Press the FM/AM button.
Each time you press the FM button briefly, the band changes between FM1, FM2, and FM3.
Press the AM button to choose AM band.



FM1

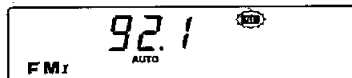
FM2



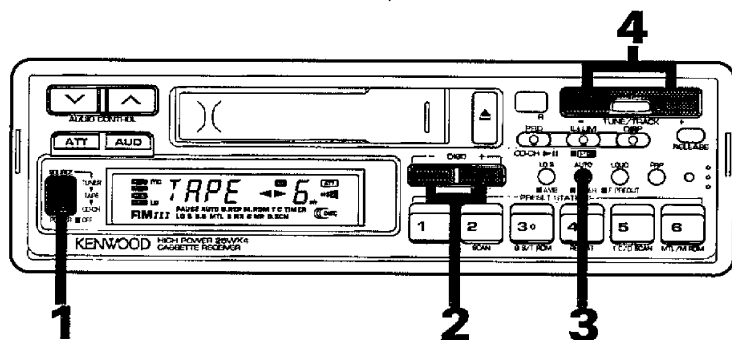
FM3

AM

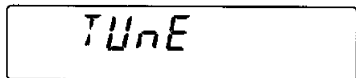
- 4** To tune
Press the Tuning up/down button.
When the Tuning up button is pressed, up seeking is performed.
When the Tuning down button is pressed, down seeking is performed.
The Stereo indicator appears on the display when stereo broadcasts are received.



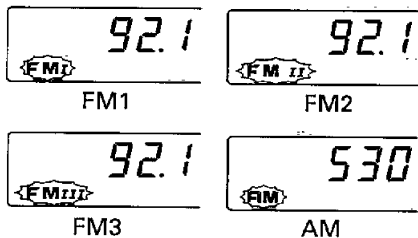
Manual tuning



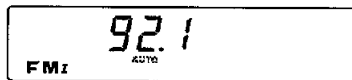
- 1** Listen to the radio
 Press the Source button to select Tuner mode.
 When "TUnE" is displayed, you are in Tuner mode.



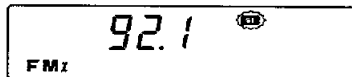
- 2** To select a band
 Press the FM/AM button.
 Each time you press the FM button briefly, the band changes between FM1, FM2, and FM3.
 Press the AM button to choose AM band.



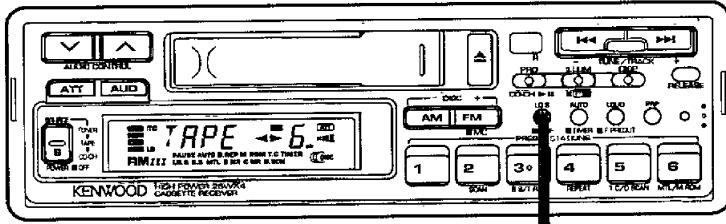
- 3** To select Manual tuning mode
 Briefly press the Auto button.
 The Auto indicator disappears and the Auto seek tuning is cancelled.



- 4** To tune
 Press the Tuning up/down button.
 When you press the button once, the received frequency changes by one step. The frequency will continue to change as long as you hold the button down.
 The Stereo indicator appears on the display when stereo broadcasts are received.



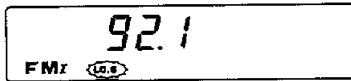
Local seek



Local seek

To use Local seek

Briefly press the Local seek button. The Local seek indicator will appear on the display, and local seek will turn on.

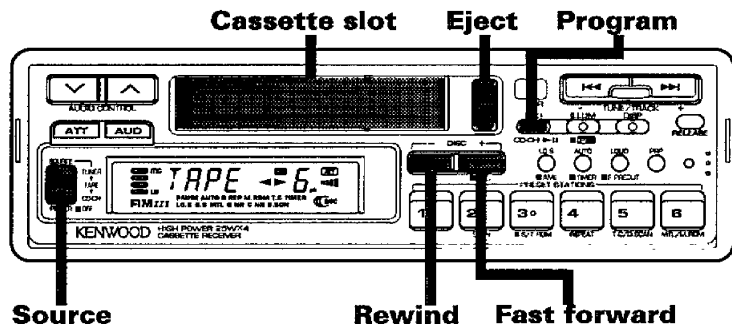


ON

To cancel Local seek

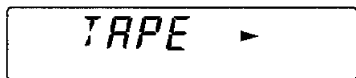
Briefly press the Local seek button. The Local seek indicator disappears, and local seek turns off.

Cassette tape play



To play a cassette

Insert a cassette with the tape aperture on the right. If there is a tape in the unit, press the Source button to select Tape mode. The word "TAPE" will be displayed, and playback will start.



NOTE

When you insert the cassette with side A up, one of the following indicators appears or blinks on the display to indicate the tape operation.

Indicator	Tape side playing/status
▶	Side A
◀	Side B
◀▶	The tape is stopped. The player is in another mode.
▶▶▶▶	Fast forwarding
◀◀◀◀	Rewinding

To stop and eject

Press the Eject button. The tape playing stops and the player ejects the cassette.

To fast forward/rewind

Press the + or - button. When you press the + button, the tape is fast forwarded. When you press the - button, the tape is rewound. The Operation indicator blinks.

To cancel fast forward/rewind

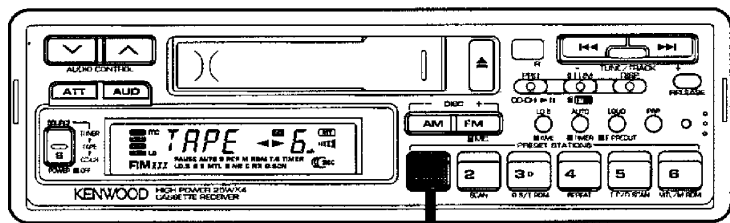
Press the Program button. The fast forward/rewind is cancelled and the tape playing begins.

To switch sides

Press the Program button. The player will play the reverse side.

Dolby B/C NR

Function of the KRC-980



Dolby B/C NR

To use Dolby B NR

Press the Dolby NR button once.
To use Dolby C NR, press the Dolby NR button twice.
The Dolby B NR indicator will appear on the display and Dolby B NR will turn on.



Dolby B NR ON

To use Dolby C NR

Press the Dolby NR button twice.
To use Dolby B NR, press the Dolby NR button once.
The Dolby C NR indicator will appear on the display and Dolby C NR will turn on.



Dolby C NR ON

To cancel Dolby B NR

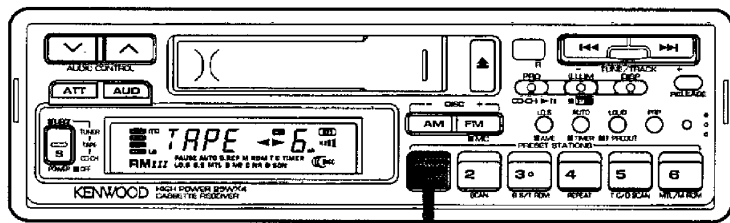
Press the Dolby NR button twice.
The Dolby B NR indicator will disappear and Dolby B NR will turn off.

To cancel Dolby C NR

Press the Dolby NR button once.
The Dolby C NR indicator will disappear and Dolby C NR will turn off.

Dolby B NR

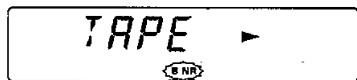
Function of the KRC-880



Dolby B NR

To use Dolby B NR

Press the Dolby NR button.
The Dolby B NR indicator will appear
on the display and Dolby B NR will
turn on.

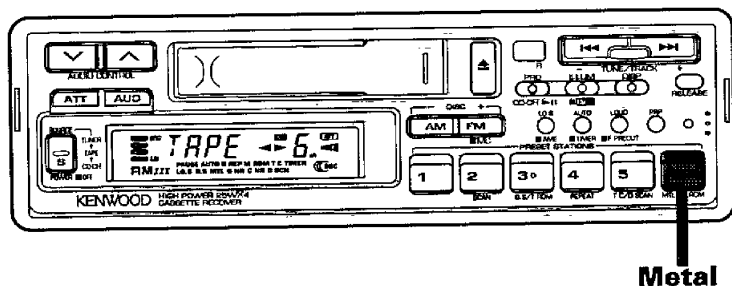


ON

To cancel Dolby B NR

Press the Dolby NR button.
The Dolby B NR indicator will
disappear and Dolby B NR will
turn off.

Tape type selection



To listen to metal/chrome tapes

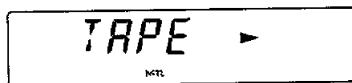
Press the Metal button.
The Metal indicator will appear on the display and the unit will be set to the metal/chrome tape position.



Metal/chrome tape position

To listen to normal tapes

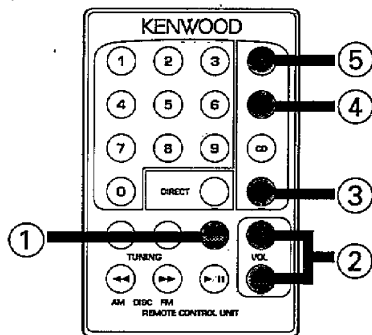
Press the Metal button.
The Metal indicator will disappear and the unit will be set to the normal tape position. The unit is factory-set to the normal tape position.



Normal tape position

Basic operations of remote control

All modes



① Attenuator button

Lowers volume immediately.
To restore previous level, press this button again or set the volume to minimum.

② Volume button

The \wedge button increases the volume.
The \vee button decreases the volume.

③ CD changer button

Selects CD changer mode.

④ Tape button

Selects Tape mode.

⑤ Tuner button

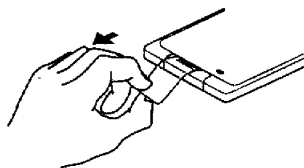
Each press of this button switches between the tuner mode and the standby mode.

Replacing the battery

- Use one lithium battery (CR2025).
- Insert the battery according to the illustration inside the battery case, taking care not to reverse the + and - polarity.
- This battery life is about 6 months, depending on operating conditions. When it expires, replace it.

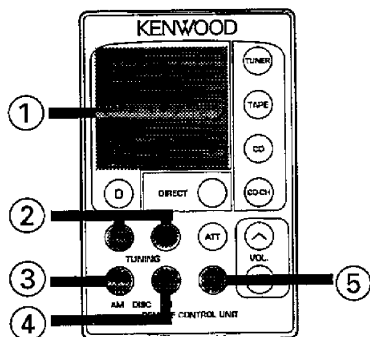
NOTE

- Before using the remote controller for the first time, pull out the film from the battery case.



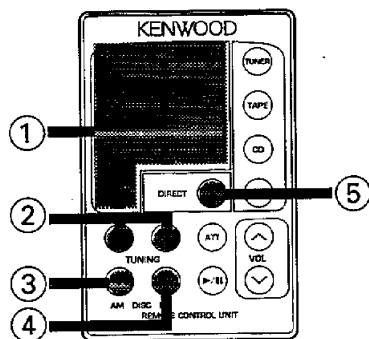
Basic operations of remote control

Tape mode



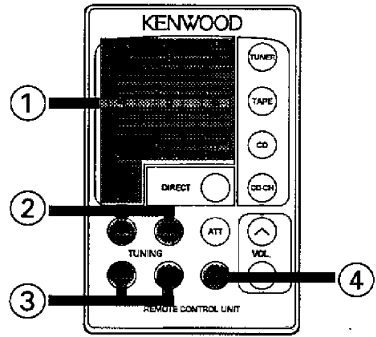
- ① **Numeric keys**
Enter the number of tracks to be skipped for DPSS using the numeric keys. (Page 28)
- ② **DPSS button**
The ◀◀ button skips back a specified number of tracks.
The ▶▶ button skips ahead a specified number of tracks.
- ③ **Rewind button**
Rewinds the tape.
- ④ **Fast forward button**
Fast forwards the tape.
- ⑤ **▶/|| button**
Plays the reverse side of tape.
When you press this button during fast forwarding or rewinding, it stops and tape play starts.

Tuner mode



- ① **Numeric keys**
Numeric keys 1 to 6 are used to recall preset stations.
Enter the frequency of the station during Direct access tuning. (Page 24)
- ② **Tuning button**
The ◀◀ button decreases the frequency.
The ▶▶ button increases the frequency.
- ③ **AM button**
Press the AM button to choose AM mode.
- ④ **FM button**
Each time you briefly press the FM button, the band changes between FM1, FM2, and FM3.
- ⑤ **Direct button**
Press the Direct button to select Direct access tuning mode.

CD changer mode



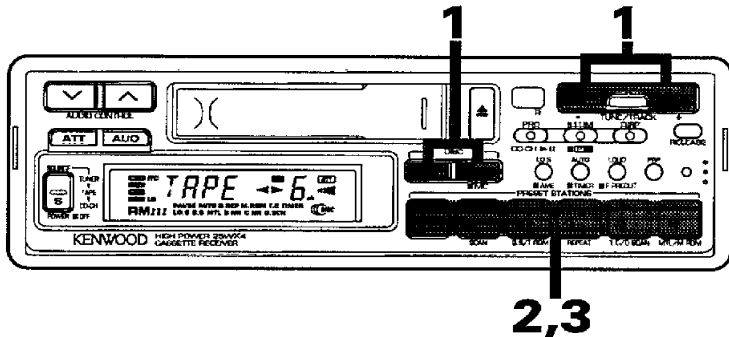
- ① **Numeric keys**
Use numeric keys to specify the track or disc number during direct track or disc search. (Page 35)

- ② **Track search button**
Press the **◀◀** button to find a previous track.
Press the **▶▶** button to find a subsequent track.

- ③ **Disc search button**
Press the **◀◀** button to find a previous CD.
Press the **▶▶** button to find a subsequent CD.

- ④ **▶/|| button**
Plays/pauses CD play.

Station preset memory



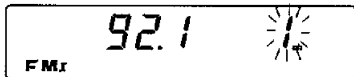
Tuner features

1

Select the band and station (frequency) you want to preset.

2

To preset
Press the Preset station button (1 to 6) you want to use for more than two seconds.
When the station is entered in memory, the number of the button to which you've assigned it will be displayed.



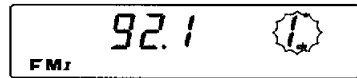
You can preset each button for one station each from the FM1, FM2, FM3, and AM bands.

NOTE

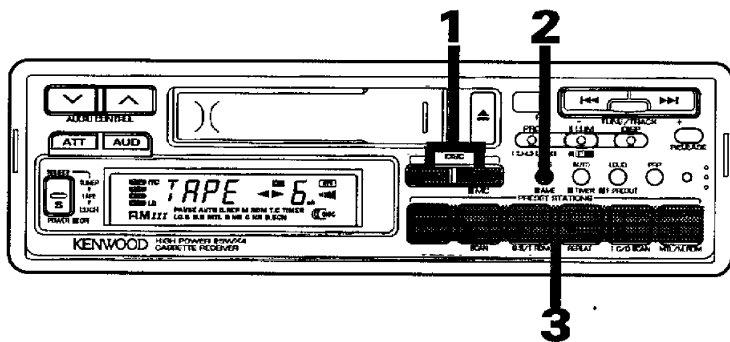
To change preset frequencies
Tune in a station you want to preset and press the Preset station button you want to change for more than two seconds.

3

To recall a preset station
Briefly press the Preset station button (1 to 6) you want.
The number of the button that you pressed will be displayed, and the preset station will be recalled.

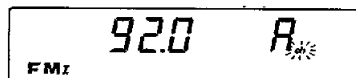


Auto memory entry



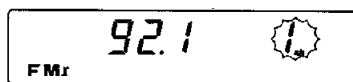
1 Select the band for Auto memory entry.

2 **Auto memory entry**
Press the Auto memory button for more than two seconds. Auto memory entry starts and preset station button numbers are displayed in order.

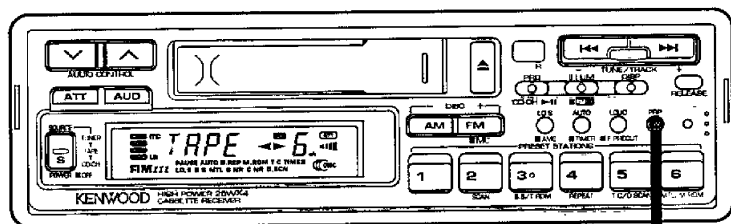


When stations are preset in all Preset stations buttons, Auto memory entry ends. The last preset station is received.

3 To recall stations stored in memory by Auto memory entry Briefly press a Preset station button (1 to 6). The number of the pressed button is displayed, and the station is recalled.



Priority radio preset

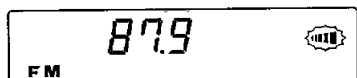


Priority radio preset

Tuner features

To recall preset stations

Press the Priority radio preset button.
The Priority radio preset indicator appears on the display and the preset station is recalled.



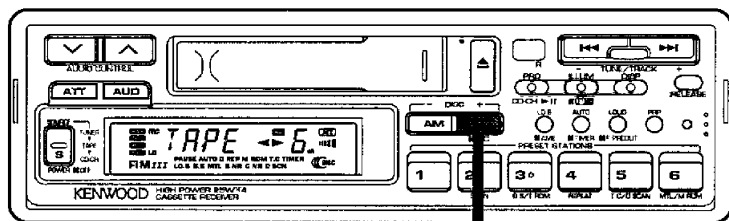
ON

To return to the original mode

Press the Priority radio preset button.
The Priority radio preset indicator disappears and the original mode returns.

To change the station to be recalled

Tune to the station you want in the Priority radio preset mode.
Only Auto seek tuning and Manual tuning can be performed in the Priority radio preset mode. Tune to the desired station by Auto seek tuning or Manual tuning.
The station you are tuned to is automatically preset, and will be recalled subsequently.



CRSC

To turn CRSC on

Press the MC button for more than a second.

The mc indicator disappears on the display and the CRSC function will turn on. This function is factory-set to ON.

NOTE

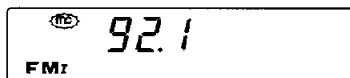
If FM sound is unstable:

With CRSC function on, strong electrical field (from power lines, for instance) may make the sound level fluctuate. If this happens, try turning CRSC off.

To cancel the CRSC

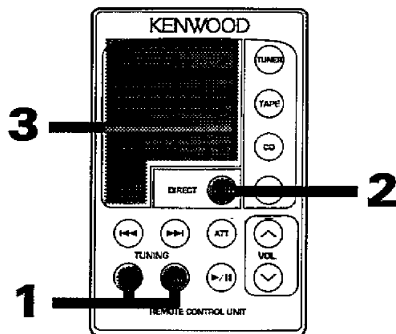
Press the MC button for more than a second.

The mc indicator will appear on the display and the CRSC function is cancelled.



OFF

Direct access tuning

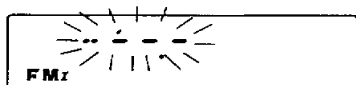


1

Select the band you want.

2

Press the Direct button.
The frequency display blinks for 10 seconds.



3

Enter the frequency you want while the frequency display is blinking.

For example:

- To tune to 92.1 MHz FM;
Press 9, 2, and 1.
- To tune to 530 kHz AM;
Press 5, 3, and 0.

NOTE

The tuner receives the frequency you entered.

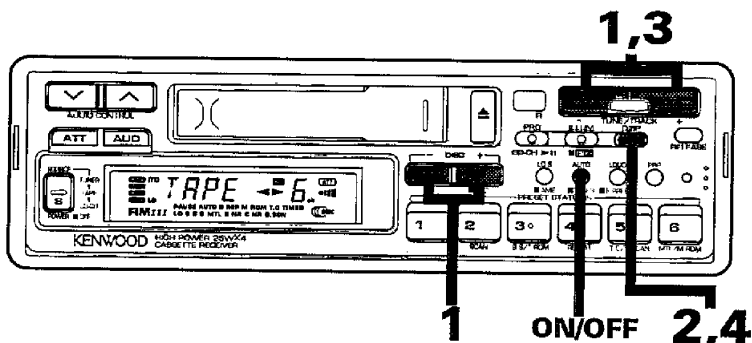
You cannot enter frequencies your tuner cannot receive in each band.

To cancel

To cancel in the middle, press the Direct button.

The Direct access tuning function is cancelled and the frequency display stops blinking.

Tuner timer



1 To set a station
Tune in the station you want to receive with the Tuner timer function.

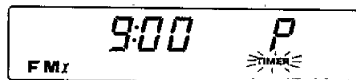
2 To enter the set timer mode
Press the Set timer (DISP) button for more than two seconds. The time is displayed and blinks and the unit enters the set timer mode.



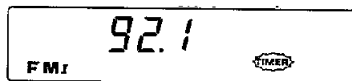
NOTE

To cancel the set timer mode in the middle, briefly press the Set timer button.

3 To set the time
Press the Hour and Minute button.
Press the Hour (H<<<) button to set the hours.
Press the Minute (>>>) button to set the minutes.



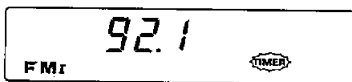
4 To start Tuner timer
Press the Set timer (DISP) button for more than two seconds. The Timer indicator will appear on the display and the Tuner timer function will turn on.



If the power to the unit is on, the tuner tunes to the specified station automatically at the set time.

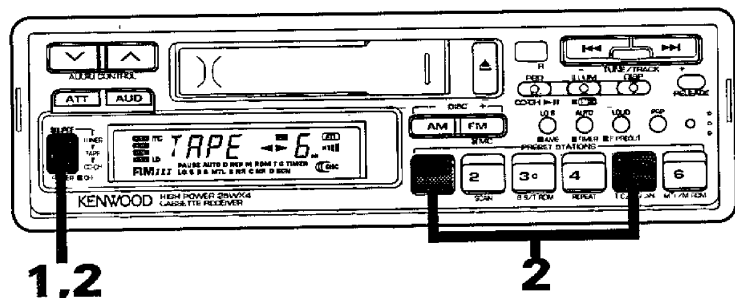
Tuner timer ON/OFF

Press the Timer button for more than a second.
Each time you press this button, the Tuner timer function turns on and off. When the function turns on, the Timer indicator appears on the display.



ON

Channel space selection



Tuner features

1

Turn the power off.

2

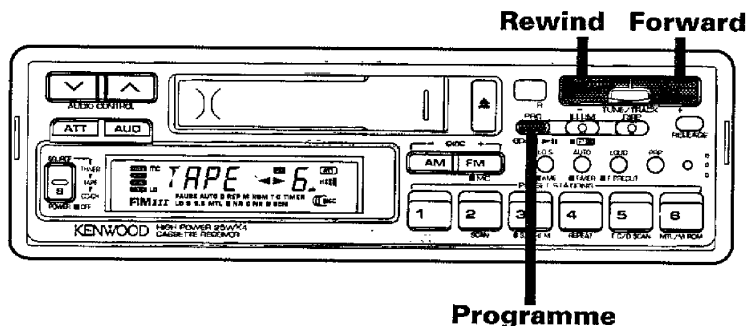
Hold down preset station buttons "1" and "5" and turn the power on. The frequency step is 50 kHz in FM and 9 kHz in AM.

NOTE

- When the frequency step is changed, all the contents of memory become the initial values.
- This function is not available in the United States and Canada.

To return to the original frequency step

Perform steps 1 and 2 again. The frequency step returns to its original value.



Rewind DPSS

Briefly press the Rewind button. Each time you press this button, the number of tracks to be skipped increases. The number of tracks you skip will be displayed. You can skip up to nine tracks. The tape is rewound to the specified track and playback starts.

For example:

- To skip three tracks back; Press the button four times.



NOTE

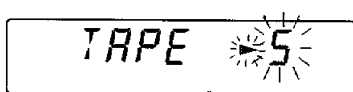
- If you press the Rewind button within three seconds after a track starts playing, the previous track will be counted as the current track (0 track).
- This function detects the beginning of a track by detecting the blank space between tracks. If the blank space between tracks is less than four seconds, or the volume is low for more than four seconds, the function will not operate correctly.

Forward DPSS

Briefly press the Forward button. Each time you press this button, the number of tracks to be skipped increases. The number of tracks you skip will be displayed. You can skip up to nine tracks. The tape is fast-forwarded to the specified track and playback starts.

For example:

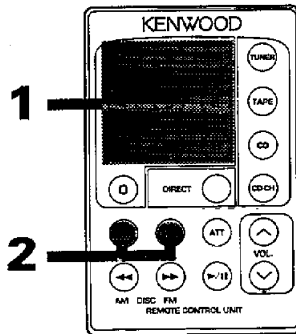
- To skip five tracks ahead; Press the button five times.



To cancel

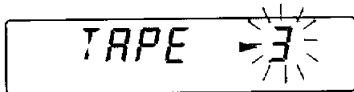
To cancel DPSS in the middle, press the Programme button. The DPSS is cancelled and playback starts.

DPSS using numeric keys



1

Enter the number of tracks you want to skip. Press the numeric key corresponding to the number of tracks you want to skip. You can skip up to nine tracks. The number blinks for 10 seconds and stays lit.



2

Rewind DPSS

Press the Rewind button while the number is blinking. The tape is rewound and when the number of tracks specified in step 1 are skipped, playback starts.

Forward DPSS

Press the Forward button while the number is blinking. The tape is fast-forwarded and when the number of tracks specified in step 1 are skipped, playback starts.

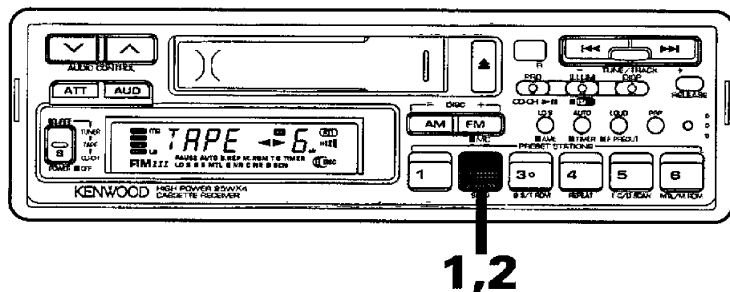
NOTE

- If you press the Rewind button within three seconds after a track starts playing, the previous track will be counted as the current track (0 track).
- This function detects the beginning of a track by detecting the blank space between tracks. If the blank space between tracks is less than four seconds, or the volume is low for more than four seconds, the function will not operate correctly.

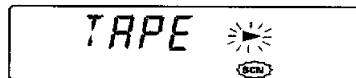
To cancel

To cancel DPSS in the middle, press the ►/II button. The DPSS is cancelled and playback starts.

Index scan



- 1** To start Index scan
Press the Scan button.
The Scan indicator will appear on the display and the player plays the first part of each track recorded on the tape.

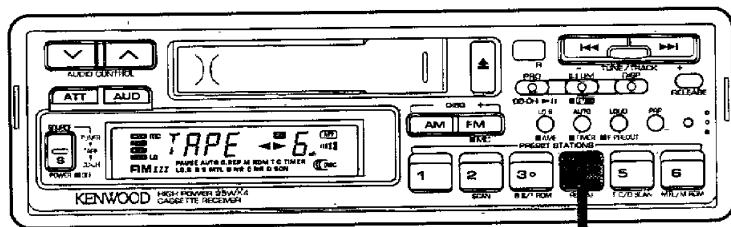


- 2** When you hear the track you want
Press the Scan button or Programme button.
Index scan is cancelled, and normal playback starts.

NOTE

Index scan is cancelled when the
--- tape stops.

Music repeat



Repeat

Cassette player features

To turn the Music repeat function on

Press the Repeat button to repeat the track you are listening to. The Repeat indicator will appear on the display and the Music repeat function will turn on.



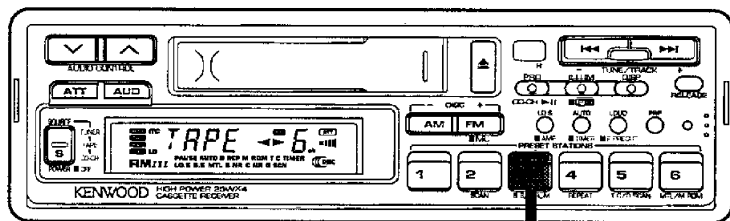
ON

When the player reaches the end of the track, it will automatically rewind the tape and play the track again.

To cancel

Press the Repeat button or Programme button. The Repeat indicator disappears and the Music repeat function is cancelled.

Blank skip



Blank skip

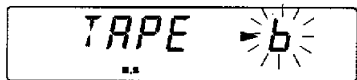
To turn the Blank skip function on

Press the Blank skip button. The Blank skip indicator will appear on the display and the Blank skip function will turn on. This function is factory-set to ON.



ON

If the player encounters more than 10 seconds without sound, it will automatically fast forward to the start of the next track.



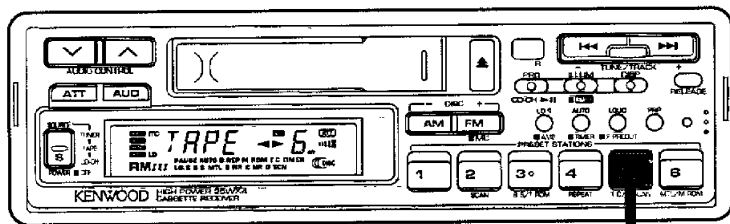
NOTE

If the recording level is very low for a long time, the player may regard it as a blank and fast forward. In this case, turn the Blank skip function off.

To cancel

Press the Blank skip button. The Blank skip indicator disappears and the Blank skip function is cancelled.

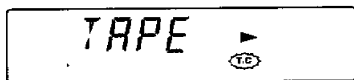
Tuner call



Tuner call

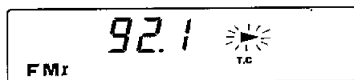
To turn the Tuner call function on

Press the Tuner call button. The Tuner call indicator will appear on the display and the Tuner call function will turn on.



ON

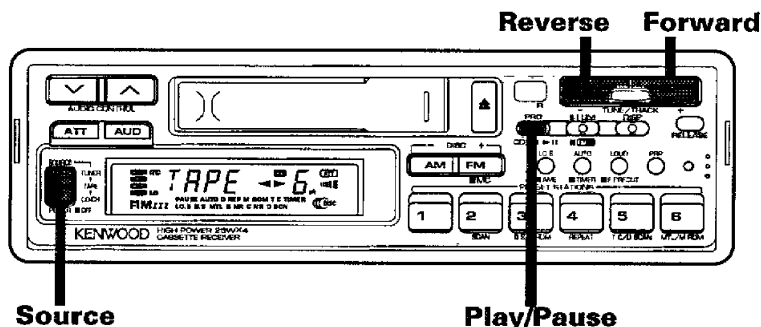
The radio turns on automatically during fast forwarding or rewinding.



To cancel

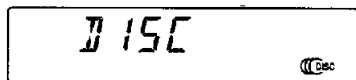
Press the Tuner call button. The Tuner call indicator disappears and the Tuner call function is cancelled.

CD play with CD auto-changer

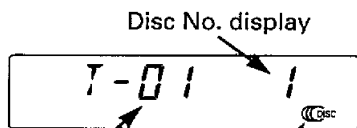


To play compact discs

Press the Source button to select CD changer mode. If you see "DISC" display, you are in CD changer mode.



The Disc indicator will appear on the display and disc play will begin.



Track No. display Disc indicator

When the player reaches the end of the last track on the disc you are playing, it will shift automatically to the first track on the next disc. When the player plays the last disc, it will return to the first disc.

When you change the discs in the auto changer, "LOAD" is displayed. Disc No. 10 is displayed as "0".

To fast forward

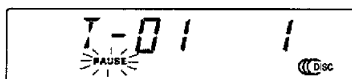
Hold down the Forward button.

To reverse

Hold down the Reverse button.

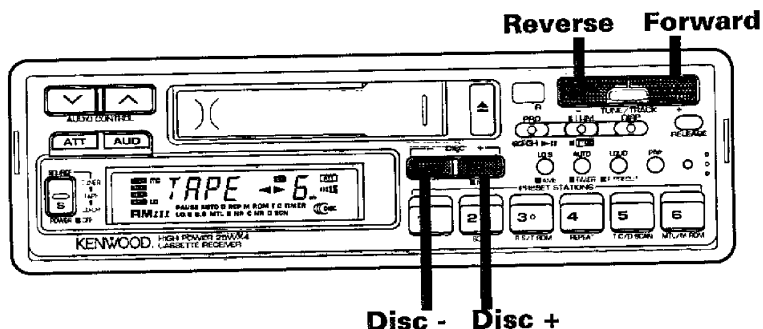
To pause

Press the Play/Pause button. The Pause indicator will appear on the display and disc play stops.



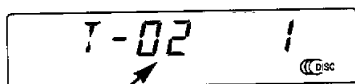
When you press the Play/Pause button again, play restarts.

Track/Disc search



Reverse track search

Briefly press the Reverse button. When you press this button once, the player returns to the start of the track you are listening to. Each time you press the button, the track number on the display decreases. The player plays the track with the track number shown on the display.



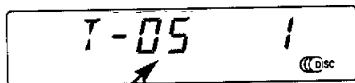
Track No.

NOTE

If you try reverse track search while playing track 1, the player will resume play at the start of track 1; it does not search for the last track.

Forward track search

Briefly press the Forward button. Each time you press this button, the track number on the display increases. The player plays the track with the track number shown on the display.



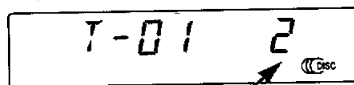
Track No.

NOTE

If you try forward track search while playing the last track on a disc, the Forward track search function does not work.

Reverse disc search

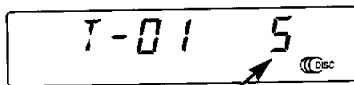
Press the Disc - button. Each time you press this button, the disc number on the display decreases. The player plays the disc with the disc number shown on the display.



Disc No.

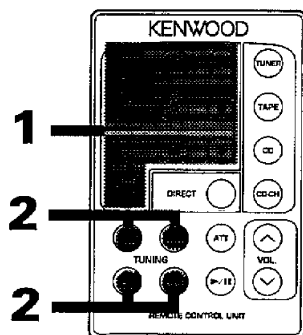
Forward disc search

Press the Disc + button. Each time you press this button, the disc number on the display increases. The player plays the disc with the disc number shown on the display.



Disc No.

Direct track/disc search



1

Enter the number of track or disc you want to listen to. The input number blinks for 10 seconds and stays lit.



NOTE

To search for disc 10 directly, enter "0".

2

Direct track search

Press the ◀◀ or ▶▶ button while the number is blinking. The player starts playing the track specified in step 1.

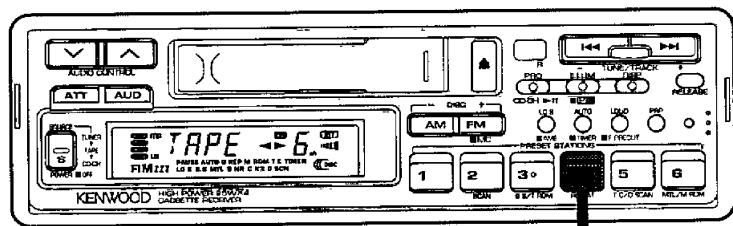
Direct disc search

Press the ◀◀ or ▶▶ button while the number is blinking. The player starts playing the disc specified in step 1.

To cancel

To cancel search in the middle, press the ▶/|| button. The Direct track/disc search is cancelled and the normal display returns.

Track/Disc repeat



Repeat

To start Track repeat

Press the Repeat button once.
When Disc repeat is on, press the button twice.
The Repeat indicator will appear on the display and the Track repeat function will turn on.
The same track is played repeatedly.



ON

To start Disc repeat

Press the Repeat button twice.
When Track repeat is on, press the button once.
The Disc repeat indicator will appear on the display and the Disc repeat function will turn on.
The same disc is played repeatedly.



ON

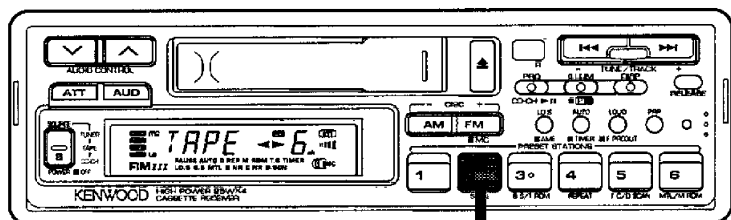
To cancel Track repeat

Press the Repeat button twice.
The Repeat indicator disappears and the Track repeat function is cancelled.

To cancel Disc repeat

Press the Repeat button once.
The Disc repeat indicator disappears and the Disc repeat function is cancelled.

Track scan



1,2

1

Press the Track scan button. The Track scan indicator will appear on the display and the player will play the first 10 seconds of each track in succession.



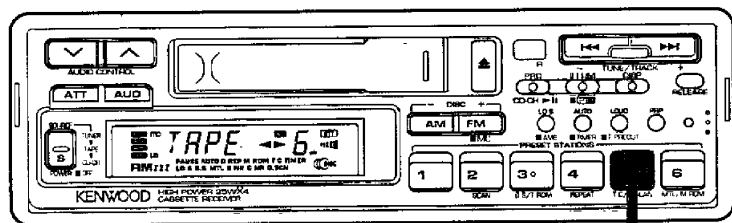
2

To select a track Press the Track scan button. The Track scan indicator disappears and the Track scan is cancelled. Normal playback starts.

NOTE

- When CD play stops, Track scan is cancelled.
- When all tracks on the disc you are listening to are scanned, Track scan is cancelled.

Disc scan

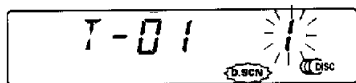


1,2

1

Press the Disc scan button.

The Disc scan indicator will appear on the display and the player will play the first 10 seconds from each disc in succession.



2

To select a disc

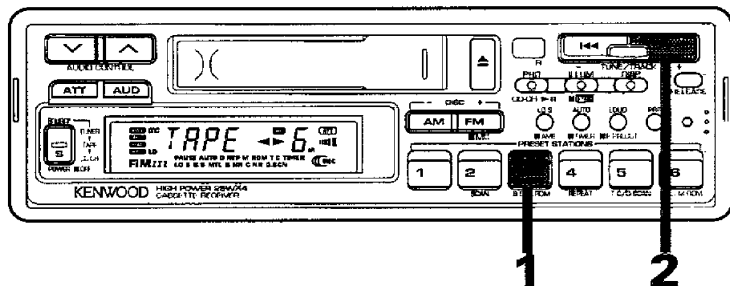
Press the Disc scan button.

The Disc scan indicator disappears and the Disc scan is cancelled. Normal playback starts.

NOTE

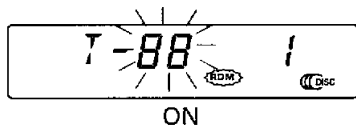
- When CD play stops, Disc scan is cancelled.
- When all discs in the magazine you are listening to are scanned, Disc scan is cancelled.

Random play



1

Press the Random button. The Random indicator will appear on the display and the player will randomly select another track from the disc you are playing. The track numbers on the display will change continuously during track selection. When a track is selected, playback will begin automatically.



NOTE

When all the tracks on a disc have been played, the player will randomly select the next disc.

2

To select another track
Press the ►► button.
The player will randomly choose another track.

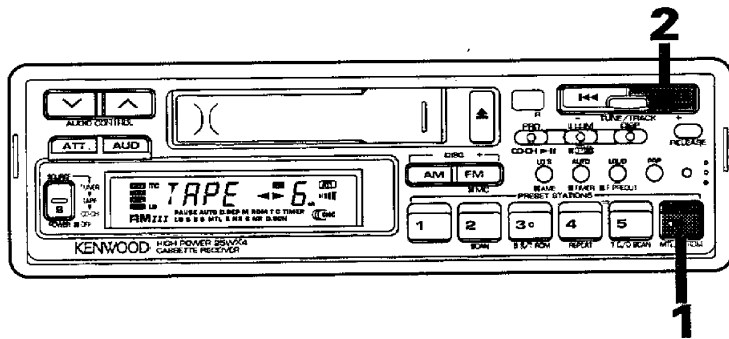
To cancel

Press the Random button. The Random indicator disappears and Random play is cancelled. Normal CD play starts.

NOTE

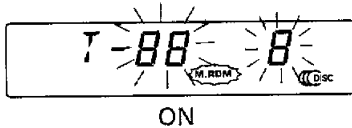
When the CD play stops, the Random play function is cancelled.

Magazine random play



1

Press the Magazine random button. The Magazine random play indicator will appear on the display and the player will randomly select another track from the disc you are playing. The track/disc numbers on the display will change continuously during track selection. When a track is selected, playback will begin automatically.



NOTE

The Magazine random play is not available if you use the KDC-C200/C300/C400/C301/C401.

2

To select another track
Press the ►| button.

The player will randomly choose another track.

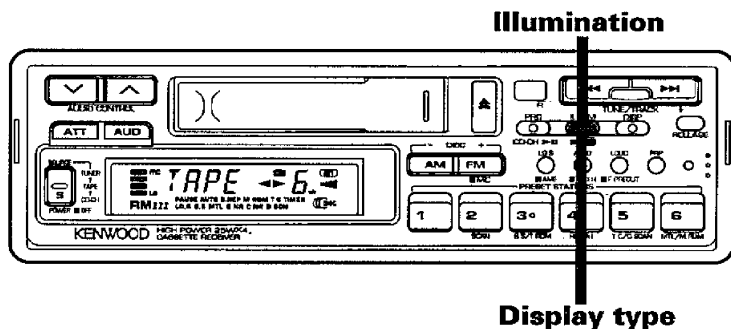
To cancel

Press the Magazine random button. The Magazine random indicator disappears and Magazine random play is cancelled. Normal CD play starts.

NOTE

- When CD play stops, the Magazine random play function is cancelled.
- The Magazine random selection time changes according to the number of discs in the magazine.

Selectable illumination/Display type



To change illumination colour

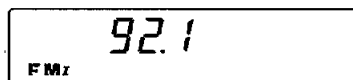
Briefly press the Illumination button.
Each time you press this button, the illumination will change from green to orange or vice versa.

Function of the KRC-980 To change the display type

Press the P/N button for more than one second.
Each time you press this button, the display type will change from negative to positive or vice versa.



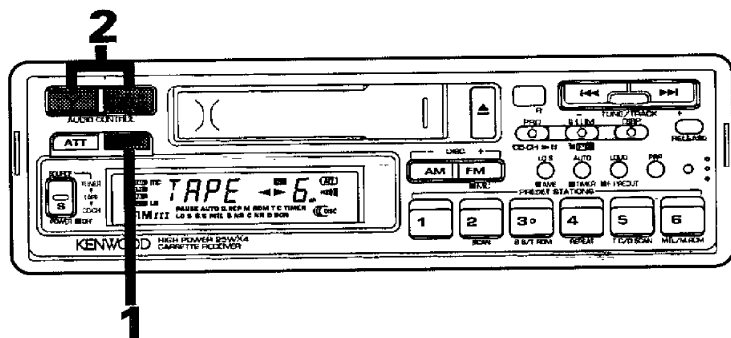
Negative type



Positive type

Other features

Audio controls



- 1** To select the control mode
Press the Audio button.
Each time you press this button, the adjustment mode changes as follows: Bass -> Treble -> Balance -> Fader -> Volume. If you do not perform the next operation within five seconds, the Volume adjustment mode (normal mode) will return.

NOTE

Source tone memory

This unit allows the Tone (Bass, and Treble) control to be set independently for each source mode (Tape, FM, AM, and CD). The tone set in Tape mode is recalled automatically when you select Tape, and the tone set in Tuner mode is recalled automatically when you select Tuner.

- 2** To adjust each mode
Press the Audio control button.
Adjust each mode according to the table.

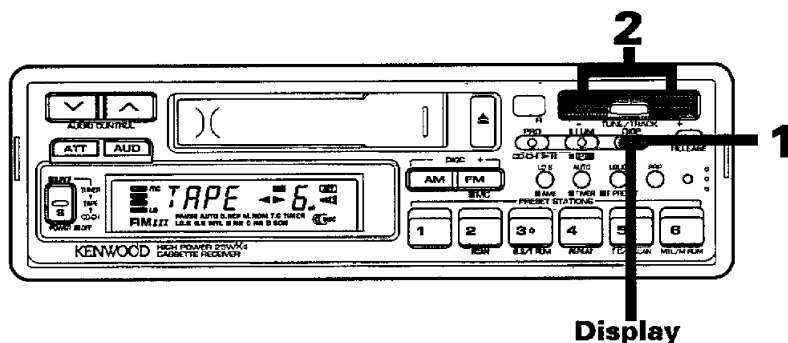
To cancel

Press the Audio button for more than one second.
The Volume adjustment mode will return.

Display	Operation of Audio control button	
	Audio down button	Audio up button
<p>Bass adjustment</p>	Bass decreases.	Bass increases.
<p>Treble adjustment</p>	Treble decreases.	Treble increases.
<p>Balance adjustment</p>	Left channel emphasizes.	Right channel emphasizes.
<p>Fader adjustment</p>	Rear sound emphasizes.	Front sound emphasizes.

Other features

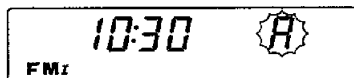
Clock display/setting



To recall clock display

Press the Display button.
The display changes as listed in the table.

Mode	Displays
Tuner	Frequency ↔ Time
Tape	"TAPE" ↔ Time
CD changer	Track/Disc number → Play time → Time →
All standby	"OFF" ↔ Time



"A" appears in AM and "P" appears in PM.

To set the clock

1

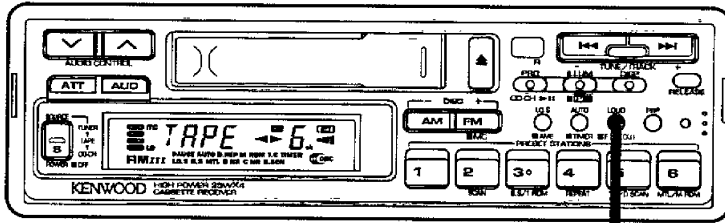
If the time is not displayed, press the Display button.
The time is displayed.

2

Hold down the Display button, and press the Tuning button.
Press the Tuning down button to adjust the hours and the Tuning up button to adjust the minutes.

Front preout control

Function of the KRC-980



Front preout

Set front preout as a Non-fading preout.

Press the Front preout button for more than one second. The Fader indicator blinks for 5 seconds, "nF" is displayed, and the front preout cannot be adjusted with the fader.



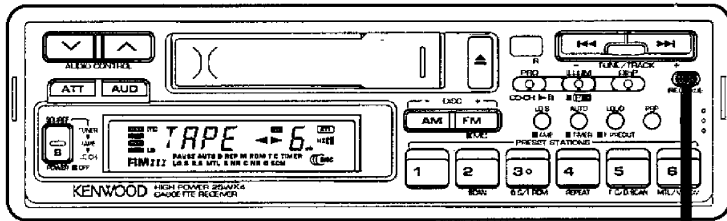
To cancel

Press the Front preout button for more than one second. The Fader indicator blinks for 5 seconds, "F" is displayed, and the front preout can be adjusted with the fader.



Other features

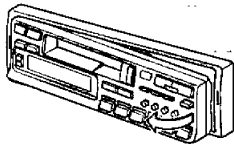
Theft deterrent faceplate



Release

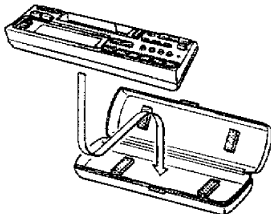
To remove the faceplate

Press the Release button.
The faceplate is unlocked and can be detached.



CAUTION

- Place the faceplate in the storage case to prevent shocks. Since it is a precision piece of equipment, if it is subject to shock, it may fail.

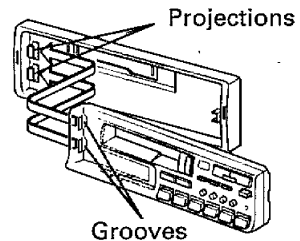


- Do not expose the faceplate or its storage case to direct sunlight or high heat, otherwise it may be deformed or fail.

To install the faceplate

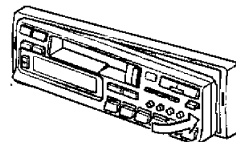
1

Align the projections on the faceplate with the grooves on the faceplate.

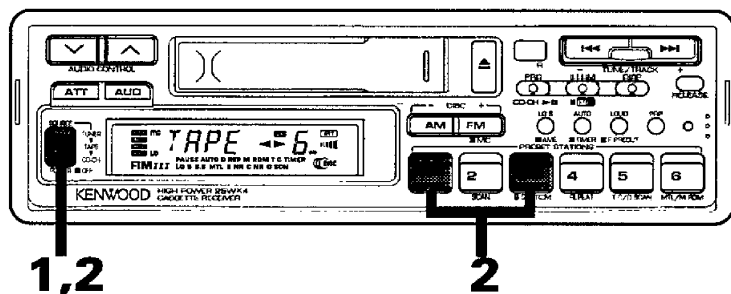


2

Press the faceplate until it clicks.
The faceplate is locked in place and the unit becomes operable.



Disabled system indicator

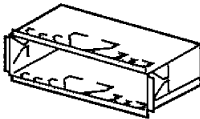
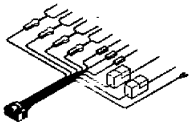
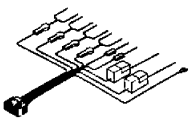
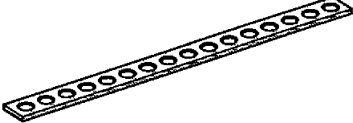
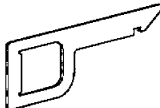
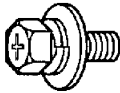



- 1** Turn the power off.
 - 2** Hold down preset station buttons "1" and "3" and turn the power on. The Disabled system indicator function turns off, and the LED does not blink when the faceplate is detached.
- To turn the Disabled system indicator on**
Perform steps 1 and 2 again. The LED blinks when the faceplate is detached.

Other features

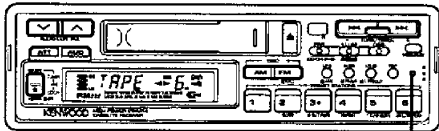
Accessories

Installation

Part name	External view	Number of items
Mounting sleeve		1
Wiring harness (KRC-980)		1
Wiring harness (KRC-880)		1
Metal mounting strap		1
Removal tool		2
Screw with washer (M4 × 8)		1
Machine screw (M5 × 6)		4

Installation procedure

1. Remove the ignition key and disconnect the negative (-) terminal of the battery to prevent short circuits.
2. Connect the input and output cables of the units.
3. Connect the speaker cables of the wiring harness.
4. Connect the ground cable, memory backup cable, and power supply cable of the wiring harness in the order listed.
5. Connect the wiring harness connectors to the unit.
6. Install the unit in the car.
7. Connect the negative (-) terminal of the battery.
8. Press the Reset button.



Reset button

CAUTION

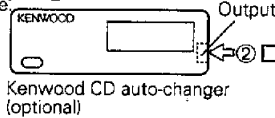
- If the fuse blows, check cables for shorts, then replace the fuse with one of the same rating.
- Check that no unconnected cables or connectors are touching the car body. Do not remove caps from unconnected cables or connectors to prevent short circuits.
- Connect the speaker cables to appropriate speaker connectors separately. Sharing the negative cable of the speaker or grounding speaker cables to the metal body of the car can cause this unit to fail.
- After installation, check that the brake lamps, wipers, and wipers work properly.
- Some CD auto-changers require a conversion cord for connection. See the "Safety precautions" for details.
- Insulate unconnected ends of cords with vinyl tape or similar.

Connections(KRC-980)

* Circled numbers indicate the procedures described in the Installation Procedure:

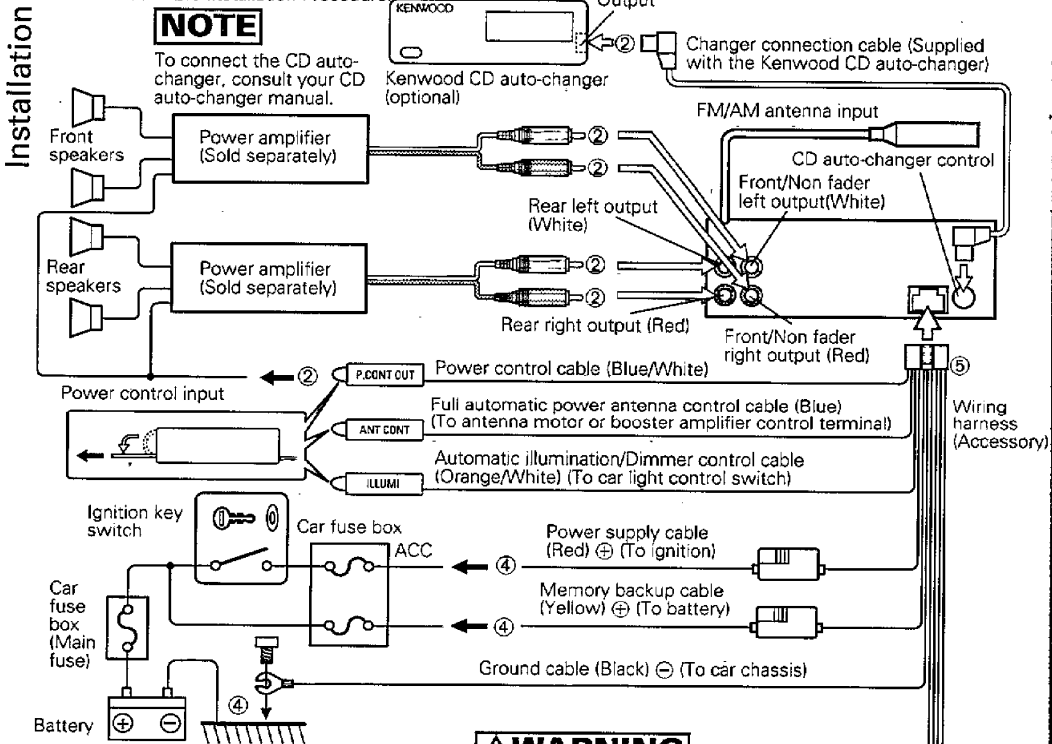
NOTE

To connect the CD auto-changer, consult your CD auto-changer manual.



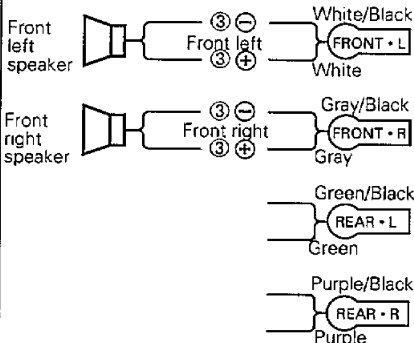
Kenwood CD auto-changer (optional)

Changer connection cable (Supplied with the Kenwood CD auto-changer)



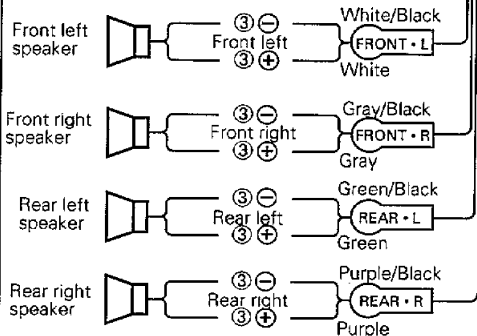
CAUTION

When two speakers are connected to the system, be sure to connect both of them to the front output or rear output. In other words, do not connect the positive connector of the left speaker to the front output and the negative connector to the rear output.



WARNING

To prevent fire when the power supply cable (Red) or memory backup cable (Yellow) is short-circuited by coming into contact with the vehicle chassis (ground), only connect the power supply after making the fuse box connections.

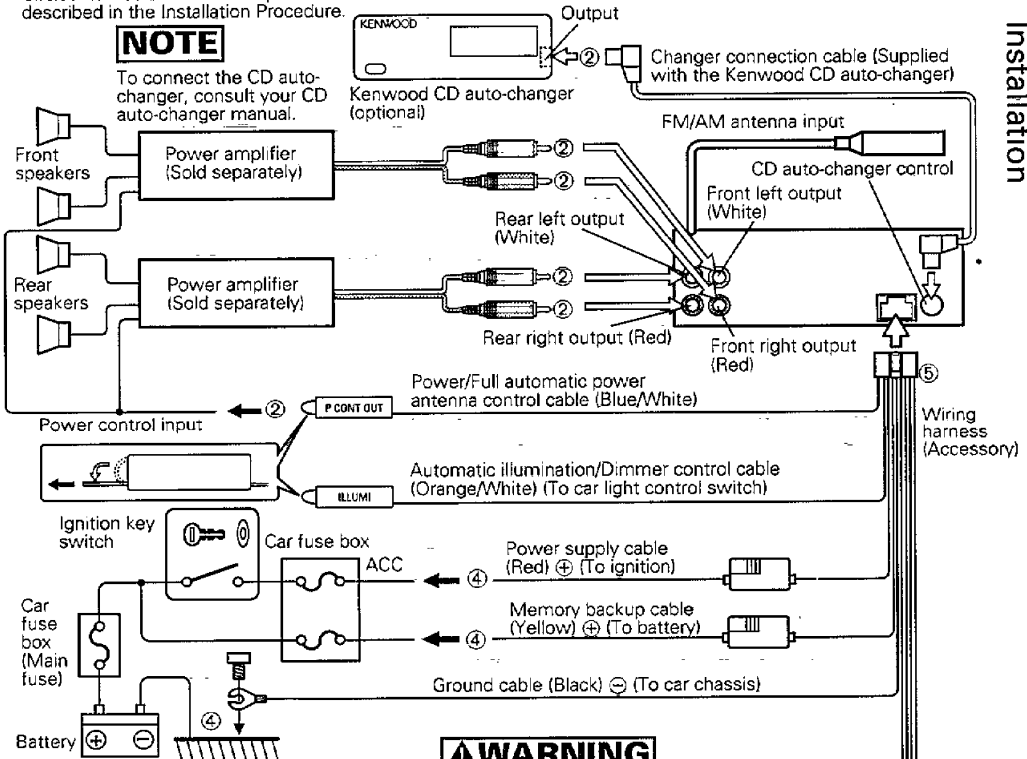


Connections(KRC-880)

* Circled numbers indicate the procedures described in the Installation Procedure.

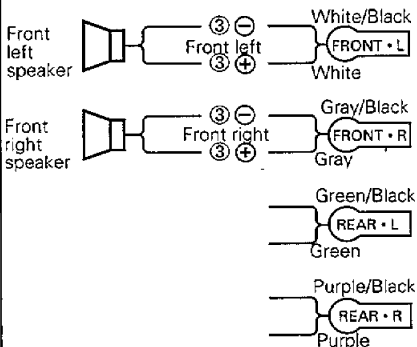
NOTE

To connect the CD auto-changer, consult your CD auto-changer manual.



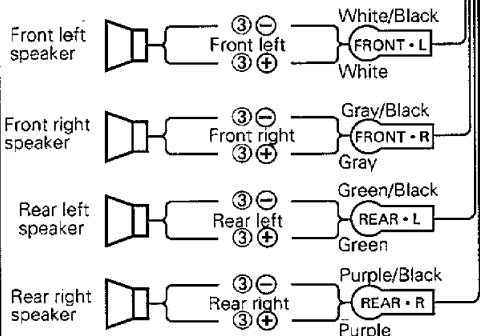
CAUTION

When two speakers are connected to the system, be sure to connect both of them to the front output or rear output. In other words, do not connect the positive connector of the left speaker to the front output and the negative connector to the rear output.



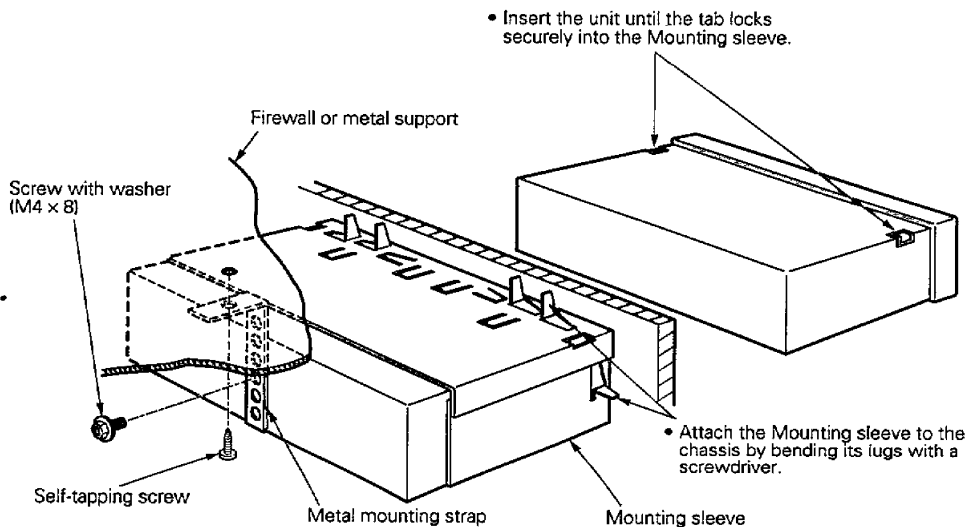
WARNING

To prevent fire when the power supply cable (Red) or memory backup cable (Yellow) is short-circuited by coming into contact with the vehicle chassis (ground), only connect the power supply after making the fuse box connections.



Installation

Installation

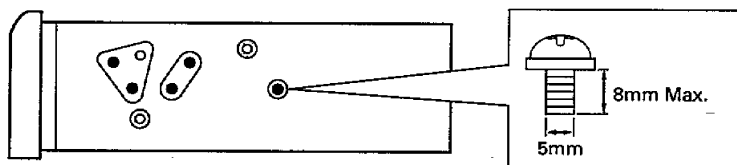


NOTE

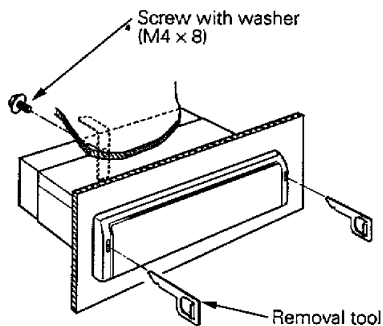
Install the unit securely. If the unit is unstable, it may malfunction, causing sound skipping.

To install in the Japanese car

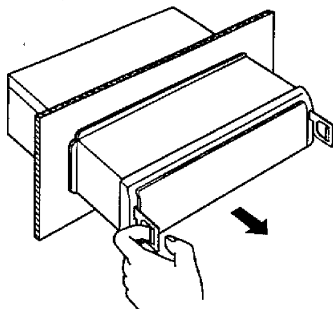
When installing in some cars made in Japan, drive Machine screws (M5 x 6) (accessories) into the two holes corresponding to the car bracket.



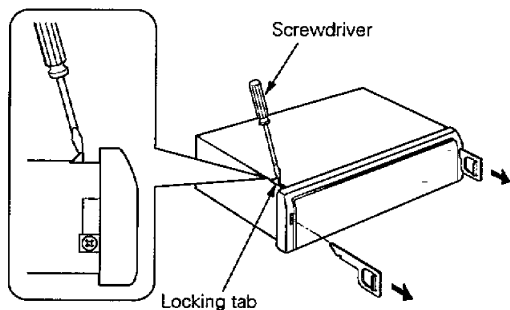
To remove the unit.



1. Remove the Screws with washer (M4 x 8) holding on the back panel.



2. Insert the Removal tool into the slot in the unit and pull out the unit. The lock is released and the unit is detached.



3. Pull out the Removal tool by pressing down the locking tabs on the top using a screwdriver.

Troubleshooting guide

Often, what appears to be a malfunction is due to user error. Before calling for service please consult the following table.

Symptom	Cause	Remedy
The power is not turned on.	The wiring harness fuse blows.	Check cables for shorts, then replace the fuse with one of with the same rating (shown on the case).
No sound or sound is low.	The volume level is minimum.	Raise the volume level.
	The fader or balance is set to one side.	Adjust the fader and balance.
	The input/output cable or wiring harness is connected incorrectly.	Connect the input/output cable or wiring harness correctly. See "Connections" (Page 50,51).
	The cassette tape is faulty.	Use another cassette.
The unit does not work properly when a button is pressed.	The microcomputer malfunctions.	Press the Reset button on the front panel.
Sound quality is poor: (Sound distortion)	The volume level is too high.	Use the appropriate volume level.
	The tape head is dirty.	Clean the head. See "Head cleaning (Page 4)".
	A speaker cable is pressed by a screw in the car.	Check the speaker cabling.
	A speaker cable is shared.	Connect the speaker output connectors to the separate speaker connectors.
A cassette cannot be inserted.	The cassette is deformed.	Use another cassette.
	The cassette has been inserted incorrectly.	Insert the cassette with the tape aperture on the right.
The cassette is not ejected.	The cassette is deformed.	Use another cassette.
	The cassette label is coming off.	Remove the label or reattach it properly.
Poor radio reception.	The car antenna is not extended.	Extend the antenna.
	The antenna control cable is not connected.	Connect the cable correctly. See "Connections (Page 50,51)".
Tape mode is not selected.	No cassette is inserted.	Insert a cassette into the unit.
When the ignition key switch is set to OFF, the memory contents disappear.	The Memory backup cable is not connected correctly.	Connect the cable correctly. See "Connections (Page 50,51)".

CD auto-changer section

Symptom	Cause	Remedy
CD auto-changer mode cannot be selected.	CD auto-changer input is not connected to the unit.	Connect the CD auto-changer input to the unit.
CD play does not start.	Power button is not turned ON.	Turn the power button ON, press the SOURCE button, and select the CD auto-changer mode.
The specified disc is not played; a different disc is played instead.	The specified disc is very dirty.	Check and, if possible, clean the disc.
	The disc is loaded upside down.	Eject the disc magazine and insert the disc correctly.
	Two discs are inserted in a slot.	Eject the disc magazine and insert the discs correctly.
	The number of the slot into which the disc is inserted is different from the number of the specified disc.	Eject the disc magazine and check the number of the specified disc.
Sound skips due to vibration.	The disc is severely damaged.	Use another disc.
	Something is touching the CD auto-changer.	Keep it away from the CD auto-changer.
Sound quality is poor.	The disc is dirty or damaged.	If sound skips at the same part, the disc is faulty. Check and, if possible, clean the disc.
	The recording of the disc is poor.	Try playing another disc. If the sound is good, the fault was with the original disc.
No sound is heard even though the information concerning the CD auto-changer is displayed.	The disc is dirty or damaged.	Check and, if possible, clean the disc.
	Volume is set to minimum level.	Raise the volume level.
	The microcomputer does not function correctly.	Press the Reset button on this unit.
The specified track is not played.	The system is not connected properly.	Connect the system properly. See "Connections" (Page 50,51).
	The player is set to RANDOM PLAY/MAGAZINE RANDOM PLAY.	Turn off RANDOM PLAY/MAGAZINE RANDOM PLAY.

In some cases, you may see one of the following error messages on your unit's display

- E-01:** No disc magazine in changer. Disc magazine is not inserted properly.
⇒ Insert the disc magazine properly.
- E-02:** No disc in disc magazine
⇒ Load a disc in the disc magazine.
- E-04:** Disc is too dirty. The disc is upside down. The disc is damaged.
⇒ Clean the disc and insert it correctly.
- E-99:** The unit malfunctions due to a defective CD mechanism.
Press the Reset button. If the "E-99" message does not disappear, contact your Kenwood dealer.
- HOLD:** When the temperature exceeds 60°C, a protection circuit will stop all operations. This message will then be displayed.
⇒ Let the place where the changer is located cool down. As soon as it has cooled, the changer starts playing.

Specifications

Specifications subject to change without notice.

Specifications

FM tuner section

Frequency range (200kHz space)	87.9 MHz – 107.9 MHz
(50kHz space)	87.5 MHz – 108.0 MHz
Usable sensitivity (S/N:30dB)	9.3 dBf (0.8 μ V/75 ohms)
50 dB Quieting sensitivity	15.2 dBf (1.6 μ V/75 ohms)
Frequency response (\pm 3 dB)	30 Hz – 15 kHz
Signal to Noise ratio	73 dB
Selectivity	100 dB
Capture ratio	1.5dB
Image response ratio	70dB
IF response ratio	120dB
Stereo separation (1 kHz)	40 dB

AM tuner section

Frequency range (10 kHz space)	530 kHz – 1700 kHz
(9 kHz space)	531 kHz – 1611 kHz
Usable sensitivity	28dB (30 μ V)

Cassette deck section

Tape speed	4.76 cm/sec.
Wow & Flutter (WRMS)	0.08 % WRMS
Fast winding time (C-60)	100 sec.
Frequency response (120 μ s)	30 Hz – 20 kHz (\pm 3 dB)
(70 μ s)	30 Hz – 21 kHz (\pm 3 dB)
Stereo separation (1 kHz)	43 dB
Signal to Noise ratio (Dolby B/C NR OFF)	58 dB
(Dolby B NR ON)	67 dB
(Dolby C NR ON/KRC-980 only)	73 dB

Audio section

Maximum output power	25 W \times 4
Output power (10% THD, 1 KHz, 4 ohms)	20 W \times 4
(1% THD, 30 Hz – 20 KHz, 4 ohms)	15 W \times 4
Tone action	Bass: 100 Hz \pm 10 dB Treble: 10 kHz \pm 10 dB
Preout level / load	1500 mV (Max.) / 10 k ohms

General

Operating voltage	14.4 V (11 – 16 V allowable)
Current consumption	7.5 A at Rated power
Installation size (W \times H \times D)	182 \times 53 \times 154 mm (7-3/16 \times 2-1/16 \times 6-1/16 in.)
Weight	1.8 kg (4.0 lbs)