

KENWOOD

KMD-71

MD-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 MD-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 KMD-71 Serial number

© PRINTED IN JAPAN B64-1310-00 (K) (MC)
00/4 3 2 1 99/12 11 10 9 8 7 6 5 4 3



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Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion — and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level **BEFORE** your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.



We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Decible Level Example

30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.

THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.



▲ Warning**▲ CAUTION**

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

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD CORPORATION
2967-3, ISHIKAWA-CHO,
HACHIOJI SHI
TOKYO, JAPAN

KENWOOD CORP. CERTIFIES THIS EQUIPMENT
CONFORMS TO DHHS REGULATIONS NO.21 CFR
1040.10, CHAPTER I, SUBCHAPTER J.

Location : Bottom Panel

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.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE

This Class B digital apparatus complies with Canadian ICES-003.

US and foreign patents licensed from Dolby Laboratories Licensing Corporation.

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 0.75mm (AWG18) 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.
- Make sure not to get your fingers caught between the faceplate and the unit.
- 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.
- Do not set the removed faceplate or the faceplate case in areas exposed to direct sunlight, excessive heat, or humidity. Also avoid places with too much dust or the possibility of water splashing.
- To prevent deterioration, do not touch the terminals of the unit or faceplate with your fingers.
- Do not subject the faceplate to excessive shock, as it is a piece of precision equipment.
- 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 place any object between the faceplate and the unit.
- 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.

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

Cannot be used with this model.

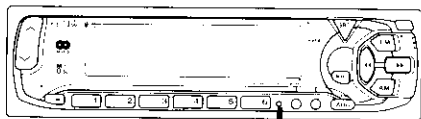
▲CAUTION

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

Safety precautions

NOTE

- If you experience problems during installation, consult your Kenwood dealer.
- If the unit does not seem to be working right, try pressing the reset button first. If that does not solve the problem, consult your Kenwood dealer.



Reset button

- Characters in the LCD may become difficult to read in temperatures below 41°F (5°C).

Cleaning the Faceplate Terminals

If the terminals on the unit or faceplate get dirty, wipe them with a dry, soft cloth.

Cleaning the Unit

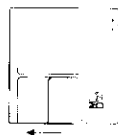
If the front panel gets dirty, turn off the power and wipe the panel with a dry silicon cloth or soft cloth.

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.

Handling Mini discs

- The MD shutter is designed so that it cannot be opened. If forced open, the cartridge will be damaged and use of the MD will no longer be possible. If the shutter has been opened due to some cause, be careful not to touch the recording portion with a finger. Doing so will cause the sound to skip.

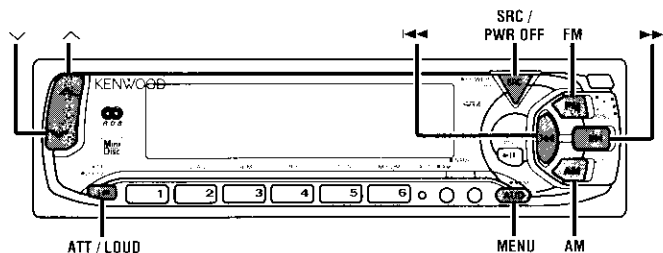


- Do not use an MD that has a peeling label. Use of an MD that has a loose or peeling label may cause problems, such as the label coming off inside the player and the resultant inability to eject the MD.
- Wipe away dirt or dust from the cartridge surface with a dry cloth before use. Using an oil-soiled cartridge in particular may result in the disc not loading or being unable to eject it. (At time of cleaning, be careful not to open the shutter.)
- Do not leave the MD in the unit for a prolonged period. The ejected MD should be placed in an MD case for storage.
- Do not leave the MD in a place exposed to direct sunlight (such as on a dashboard) or in other places that attain high temperatures. The MD cartridge will become misshapen and will no longer be usable.
- MDs designed for use with data cannot be used. Please use MDs designed for music.
- Do not use lens cleaners. Doing so will lead to breakdown.

Lens Fogging

In cold climates, there may be a period after you turn on your vehicle's heater when the lens that guides the laser beam used in your MD player fogs up. If this happens, you cannot play mini discs. Take out discs and the fogging will disappear. If it does not return to normal after several hours, contact your Kenwood dealer.

Basic operations



LOUD indicator



ATT indicator

Power

Turning on the power:

Press the SRC (source) button.

NOTE

Turn the power on before carrying out the following procedures.

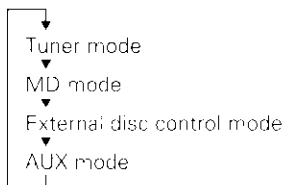
Turning off the power:

Press the PWR OFF button for at least one second.

Switching Modes

Switching Modes:

Each time you press the SRC (source) button, the mode switches as follows:



NOTE

- The mode switches to the next mode from any mode which cannot be used.
- The external disc control mode will differ depending on the unit that is connected.
- The AUX mode is available only when the changer / AUX switching adapter (KCA-S210A or CA-C1AX) or CD changer (KDC CPS82 or KDC CX82) is connected to this unit. During the AUX mode, "AUX" will show in the display. When the CA-C1AX is being used, the AUX Mode will replace the External Disc Control Mode.

Basic operations

Volume

Increasing Volume:

Press the \wedge button to turn up the volume.

Decreasing Volume:

Press the \vee 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.
The LOUD indicator lights up when the loudness function is on.

Turning Loudness On/Off:

Press the LOUD button for at least one second to switch the loudness on and off.

Menu System

To accommodate a greater number of functions, a menu system has been employed for making settings. Press the MENU button to enter the menu mode and then display the function to make the setting. Details on each setting are explained separately in the corresponding function page.

- 1 Press the MENU button for at least one second.
'MENU' is displayed when the menu mode is entered.
The function that you can adjust is indicated with the current settings displayed.
- 2 **Selecting function to set**
Press the \blacktriangleright button to search through the functions until you see the one you want to adjust in the display.
Press the \blacktriangleleft button to search through the functions backward.
Example: If you want to the setting of the touch sensor tone function from on to off, first search through the functions until you see "Beep ON" in the display.

Beep ON

- 3 **Changing setting for currently displayed function**

Press either the AM or FM button.

The setting will change for each function.

Example: The setting of the touch sensor tone will switch from on to off, and 'Beep OFF' is displayed.

Beep ON \rightarrow Beep OFF

- 4 **Ending the menu mode**

Press the MENU button.

The selection includes:

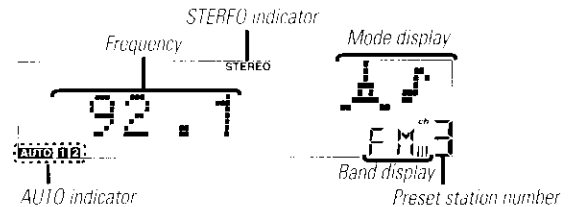
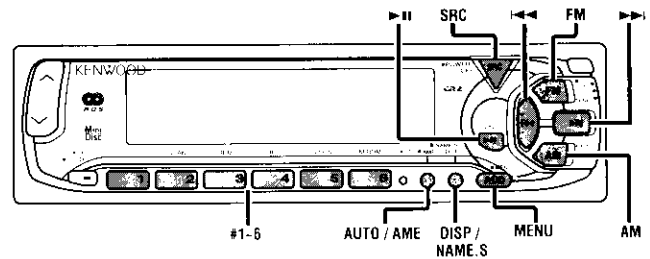
Touch Sensor Tone (Beep ON / OFF) \leftrightarrow Time Adjustment*
<Manual> (CLK ADJ*) \leftrightarrow Automatic Time Adjustment** (SYNC OFF / ON) \leftrightarrow Disabled System Indicator (DSI ON / OFF) \leftrightarrow Selectable Illumination (COL GRN / AMB) \leftrightarrow Contrast Adjustment (CONT ##) \leftrightarrow Dimmer (DIM ON / OFF) \leftrightarrow Switching Graphic Display (GRAP ON / OFF) \leftrightarrow Traffic

Tuner features

Information Function (TI OFF / ON) • • Clean Reception System Circuit* (CRSC ON / OFF) • • Text Scroll** (SCL Auto / Manu)
• • Touch Sensor Tone
* When Automatic Time Adjustment is off
• Time adjustment mode entered
• In FM reception of Tuner mode
** In FM, MD, or External disc control mode

NOTE

- Make sure to end the menu mode when finished. If you fail to end the menu mode, several functions may not operate properly, including the Traffic Information function and the Alarm function.
- The "##" display indicates the setting value.



Tuner features

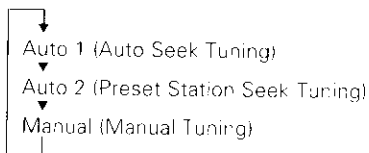
Tuning

You can choose from three tuning modes: auto seek, preset station seek, and manual. The "AUTO 1" indicator lights up when auto seek tuning is selected, and the "AUTO 2" indicator lights when preset station seek tuning is selected.

Selecting Tuning Mode:

Press the AUTO button.

Each time you press the AUTO button, the mode switches as follows.



Tuning:

- 1 Press the SRC (source) button repeatedly to select the tuner mode. 'TUNER' is displayed when the tuner mode has been selected.
- 2 Press either the FM or AM button to select the band. Each time you press the FM button, the band switches between the FM1, FM2 and FM3 (which are used for groups of preset stations). Press the AM button to select the AM band.
- 3
 - Auto Seek Tuning
Press the ►| button to seek higher frequencies.
Press the |◀ button to seek lower frequencies.
 - Preset station seek tuning
Press the ►| button to move to the next preset station (i.e., the one with the next highest number), and the |◀ button to move to the last preset station (i.e., the one with the next lowest number).
 - Manual Tuning
Press the ►| button to increase the frequency by one step.
Press the |◀ button to decrease the frequency by one step.

NOTE

The STEREO indicator lights up when stereo broadcasts are being

received.

Station Preset Memory

Store the frequency of a station. You can then recall that station with a single touch of a button.

- 1 Select the band/ 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

You can automatically store all the receivable frequencies in the band currently being listened to, and then recall them with the touch of a button later. This function is especially useful when you are travelling and do not know what stations are available. Up to six frequencies can be stored this way.

- 1 Select the band for auto memory entry.
- 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.

Clean Reception System Circuit (CRSC)

Temporarily have reception switched from stereo to mono to reduce multi-path noise when listening to the FM station.
The factory default for this function is ON.

Turning CRSC On/Off:

- 1 Press the MENU button for at least one second.
"MENU" is displayed and the menu mode is turned on.
- 2 Keep pressing the ►► button until the Clean Reception System Circuit function appears in the display.
Press the ◄◄ button to search in the other direction.
The function setting is indicated by "CRSC ON" or "CRSC OFF" in the display, indicating that the CRSC is on or off, respectively.
- 3 **Switching settings**
Press either the AM or FM button.
The display and setting will change.
- 4 Press the MENU button to end the menu mode.

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.

Switching Display for Tuner

You can change the display used when listening to the radio.

Changing the Display:

Each time you press the DISP button, the display changes as follows:

Station frequency

SNPS name (only when being preset) /

Program Service name (during RBDS station reception)

Radio text (only during RBDS station reception)

NOTE

When receiving an RBDS station to which a name has been preset with Station Name Preset, switching to the program service name/SNPS name display will result in the program service name being displayed with priority.

reverse direction.

2 Once the name is displayed for the station you want to listen to

Press the OK button.

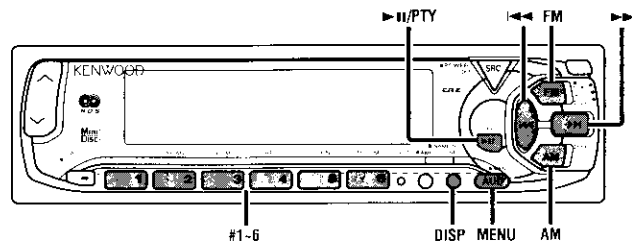
Reception starts of the displayed station, and the station name preset play mode ends.

Canceling mode during input:

Press the DNPP button.

The station name preset play mode is canceled.

RBDS features



RBDS features

RBDS (Radio Broadcast Data System)

RBDS is a service used by radio stations to transmit data outside normal radio broadcast signals.

When an RBDS station is received, you can immediately find out what kind of data is being transmitted by looking at the program service name, which appears in the display after the frequency.

The **TI-ON** indicator turns on when an RBDS station is being received.

Alarm

When an emergency transmission (announcing disasters, etc.) is made, the current function will be interrupted to allow the warning to be received under the following conditions: during tuner reception, or when the Traffic Information function is turned on.

Traffic Information Function

You can listen to traffic information. If you are listening to tapes or discs, they will continue playing until a traffic bulletin is broadcast.

Turning TI function On/Off:

- 1 Press the MENU button for at least one second. "MENU" is displayed and the menu mode is turned on.
- 2 Keep pressing the **▶▶** button until the Traffic Information function appears in the display.
Press the **◀◀** button to search in the other direction.
The function setting is indicated by "TI ON" or "TI OFF" in the display, indicating that the TI function is on or off, respectively.

3 Switching settings

Press either the AM or FM button.

The display and setting will change.

When the function is on, the TI indicator is turned on. When

none is being received, the TI indicator will blink on and off. When a traffic information station is being received, the TI indicator will turn on.

When a traffic bulletin begins to be broadcast, "TRAFFIC" will be displayed.

If you are listening to a tape or disc when a traffic bulletin begins, they will automatically be turned off. When the bulletin ends or poor reception is experienced, the tape or disc will begin playing again.

- 4 Press the MENU button to end the menu mode.

Switching to a Different Traffic Information Station:

Use the **◀◀** / **▶▶** buttons to make an auto seek of the TI stations in a certain band.

NOTE

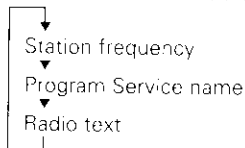
- When you are listening to a tape or disc, you cannot change to another TI station.
- When you turn on the TI function, the motorized antenna will extend automatically.

Radio Text

You can display textual information being transmitted by RBDS stations.

Turning on Radio Text Display Mode:

Pressing the DISP button switches the display as follows. Select the Radio Text Display mode.



NOTE

If the RBDS station currently tuned to is transmitting no text while the Radio Text Display mode is turned on, "NO TEXT" will

appear in the display. While awaiting reception, "WAITING" will be displayed.

▲WARNING

To prevent accidents, drivers should not look at the display while on the road.

NOTE

The setting of the text scroll function is in common with Text Scroll for disc control.

Radio Text Scroll

This function permits the text to be scrolled and the entire text to be displayed. Switching between manual scrolling and automatic scrolling is permitted. The factory default is automatic scrolling.

To scroll automatically:

Press the DISP button for at least one second to display the Radio Text. The display of the text will be scrolled repeatedly.

Manual/Automatic scroll switching:

- 1 Press the MENU button for at least one second.
"MENU" is displayed and the menu mode is turned on.
- 2 Keep pressing the ►► button until the Text scroll function appears in the display.
Pressing the ◄◄ button results in the function's being switched in the reverse order.
The text scroll function is displayed with "SCL Manu" or "SCL Auto".
"SCL Manu" (Manual scrolling)
"SCL Auto" (Automatic scrolling)

3 Switching settings

Press either the AM or FM button.
The display and setting will change.

- 4 Press the MENU button to end the menu mode.

To scroll manually:

- 1 Press the DISP button for at least one second to display the Radio Text.
- 2 Pressing the DISP button for at least one second results in one scrolling display of the text.

RBDS features

Programme Type (PTY) Function

Conduct auto seek tuning only on those stations with selected kinds of programmes.

- 1 Press the ►|||PTY) button.
"PTY" is displayed once the programme type selection mode is entered.

NOTE

You cannot use this function whilst the traffic information function is turned on.

2 Select the type of programme to be received

- Press either the FM or AM buttons repeatedly until the type of programme you want to listen to.

The selection includes:

- Speech(SPEECH) ↔ 1. News(NEWS) ↔
- 2. Information(INFORM) ↔ 3. Sports(SPORTS) ↔
- 4. Talk(TALK) ↔ 5. Rock(ROCK) ↔ 6. Classic Rock(CLS ROCK)
- ↔ 7. Adult Hits(ADLT HIT) ↔ 8. Soft Rock(SOFT ROCK) ↔
- 9. Top 40(TOP 40) ↔ 10. Country(COUNTRY) ↔
- 11. Oldies(OLDIES) ↔ 12. Soft(SOFT) ↔
- 13. Nostalgia(NOSTALGIA) ↔ 4. Jazz(JAZZ) ↔
- 15. Classical(CLASSICAL) ↔ 16. R&B(R & B) ↔ 17. Soft R&B(SOFT R&B) ↔ 18. Language(LANGUAGL) ↔
- 19. Religious Music(REL MUSC) ↔ 20. Religious Talk(RFL TALK) ↔ 21. Personalty(PERSNTY) ↔ 22. Public(PUBLIC) ↔
- Music(MUSIC) ↔ Speech(SPEECH) ↔
- (Speech.....1-4, 18, 20-22, Music.....5-17, 19)

- You can select the type of programme directly by pressing a preset button. The buttons are factory set to the following type of programmes:

- | | | |
|-----------|--------------|---------|
| 1. Music | 2. Speech | 3. News |
| 4. Sports | 5. Classical | 6. Jazz |

NOTE

Changing the Preset Button Settings for Programme Type
After selecting the type of programme to be stored in a certain preset button, hold a down that button for two seconds or more. The previously stored data for that button are erased and the new programme type is stored.

3 Seeking the Selected Programme Type

Press the ◀◀ or ▶▶ button to make a seek of frequencies

with your selected type of programme.

The display blinks and the seek starts.

If your selected type of programme is found, the name or the frequency of the station is displayed and the station is tuned into.

"PTY" blinks in the display for about 30 seconds.

If you make no key input in 30 seconds, the PTY selection mode will turn off automatically.

NOTE

If no programme can be found, "NO PTY" is displayed.

If you want to select another type of programme, repeat steps 2 and 3 above.

Switching to Other Stations with the Same Type of Programme:

When "PTY" is blinking in the display, perform auto seek tuning.

The tuner scans for another station with the same type of programme.

Cancelling Programme Type Function During Its Operation:

Press the ►|| (PTY) button.

Confirming Programme Type:

Press the DISP button.

The programme type of the station currently tuned to will be displayed for five seconds. During that time, "E" will blink in the display.

NOTE

If you tune to frequencies for which no programme type has been stored, "NO ENTRY" will be displayed.

To register a non-RBDS station as a programme type:

- 1 Tune your radio to the non-RBDS station that you want to register as the programme type.
- 2 Press the ►|||PTY) button to enter the programme type selection mode.
- 3 Press the FM/AM button to select the programme type you want to register. Follow the instructions in 2 to enter the programme type selection mode.
- 4 Hold down the DISP button for two seconds or more. The station will be registered as a programme type, allowing it

MD/External disc control features

to be the target of frequency seeks just as RBDS stations are.

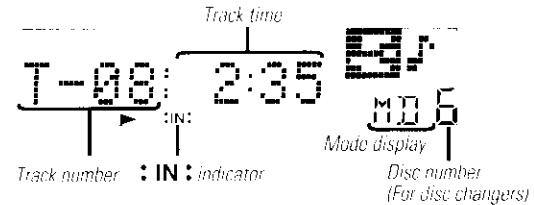
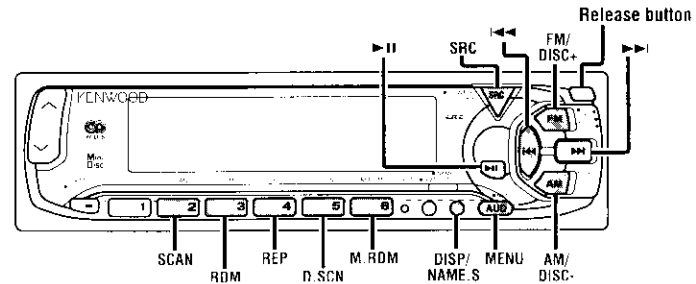
NOTE

You can store up to 48 stations.

If you try to store a 49th station, the frequency and programme type will appear alternately in the display.

In that case, press the FM/AM button to change the display to a station that you want to erase, and then hold down the DISP button again for two seconds or more. The newly entered station will thus be stored.

- 5 Press the **▶||**(PIY) button to end the programme type selection mode.



MD/External disc control features

- When a unit equipped with an O-N switch is to be connected, please also see the instruction manual of this unit. Set the O-N switch to "N". "N"-operation will be set.
- When a unit that is not equipped with an O-N switch, or the changer switching unit "KCA-S200" is connected, "O"-operation will be set.

"N"-operation:

- The disc title and track title of the CD text can be displayed.
- The disc name will be displayed when the name has been registered to any connected unit with the Presetting Disc Names function, or when the playing unit contains a disc to which the disc title has been recorded.

"O"-operation:

- CD text cannot be displayed.
- Regardless of the control unit, the characters that can be registered with the Presetting Disc Names function are 'A-Z 0-9 /, +, -, *, =, <, >, |, |'.
- The disc name will be displayed when the name has been registered to the playing unit with the Presetting Disc Names function.

NOTE

The CD text, Presetting Disc Names, and Disc Name Preset Play functions may not be operational depending on the unit.

Playing MDs

Playing MDs:

A press of the release button causes the faceplate to drop to the front, thereby exposing the MD slot. Insert the MD in the proper orientation. The MD will start playing. Push back on the right side of the faceplate with your hand until it locks. The **IN** indicator will light when an MD has been inserted.

CAUTION

When inserting an MD, make sure the MD has been completely drawn in before pushing back the faceplate. Failing to do so might

deform the MD.

Playing MDs Already Inserted:

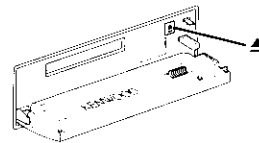
Press the SRC (source) button repeatedly to select the MD mode. "MD" is displayed when the MD mode has been selected. The MD will start playing.

Pausing and Restarting MD Play:

Press the **▶||** button to make the disc pause. Press the same button again to start play again.

Eject:

Press the release button and drop open the faceplate. Press the **▲** button located near the MD slot. The MD stops playing and ejects from the slot. Push back on the right side of the faceplate with your hand until it locks.



CAUTION

- When the faceplate has been dropped open, it might interfere with the shift lever or something else. If this happens, pay attention to safety and move the shift lever or take an appropriate action, then operate the unit.
- Do not apply excessive force to the open faceplate or place objects on it. Doing so will cause damage or breakdown.
- Do not use the unit with the faceplate in the open condition. Doing so will cause breakdown.

Playing Other Disc mode

This function permits the connection of optional players and the playing of discs other than the loaded MD (in the current unit).

Playing Discs:

Press the SRC (source) button repeatedly to select the external disc control mode.

The disc will start playing.

NOTE

The external disc control mode will differ, depending on the unit that is connected.

Mode Display Examples

- "CD"...when a CD player is connected
- "DISC"...when a disc changer is connected
- "DISC-1", "DISC-2"...when two disc changers are connected

Pausing and Restarting Disc Play:

Press the ►|| button to make the disc pause.

Press the same button again to start play again.

NOTE

- 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".

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 depending on the model being connected. Instead, the reverse play function is canceled when it reaches the beginning of a track, at which point normal play will automatically resume.

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 (For disc changers)

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 (For disc changers)

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

MD/External disc control features

Disc Search

(Function of disc changers)

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

Making a Reverse Disc Search:

Press the DISC- 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 DISC+ 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

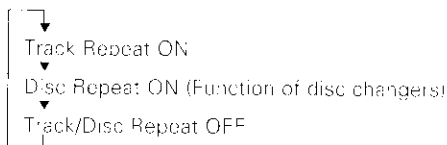
"LOAD" is displayed when discs are being exchanged on the disc changer.

Track / Disc Repeat

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

Turning Repeat Play On/Off:

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



"TRREP ON/REP ON" is displayed and the track number blinks in the display when track repeat is on.

"DREP ON" is displayed and the disc number blinks in the display when disc repeat is on.

NOTE

Repeat play is canceled when you stop playing the disc.

Track Scan

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

Starting the Track Scan :

Press the SCAN button. "TSCN ON/SCN ON" is displayed and 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 ►|| or SCAN button again to stop the scan and keep on listening to a track normally.

NOTE

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

Disc Scan

(Function of disc changers)

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

Starting the disc scan:

Press the D.SCN button. "DSCN ON" is displayed and 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 ►|| or D.SCN button again to stop the scan and keep on listening to the disc normally.

NOTE

- The disc scan function is cancelled when you stop playing a disc.
- The disc scan function only scans each disc on the changer.

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

- Only units with a CD text feature permit title display.

Text / Title Scroll

This function permits the text to be scrolled and the entire text to be displayed. Switching between manual scrolling and automatic scrolling is permitted. The factory default is automatic scrolling.

To scroll automatically:

Press the DISP button to display the disc title or the track title. The display of the text will be scrolled repeatedly.

Manual/Automatic scroll switching:

- 1 Press the MENU button for at least one second. "MENU" is displayed and the menu mode is turned on.
- 2 Keep pressing the ►► button until the Text/title scroll function appears in the display. Pressing the ◀◀ button results in the functions being switched in the reverse order. The text/title scroll function is displayed with "SCL Auto" or "SCL Manu".
"SCL Auto" (Automatic scrolling)
"SCL Manu" (Manual scrolling)
- 3 **Switching settings**
Press either the AM or FM button. The display and setting will change.
- 4 Press the MENU button to end the menu mode.

To scroll manually:

- 1 Press the DISP button to display the disc title or the track title.
- 2 Pressing the DISP button for at least one second results in one scrolling display of the titles.

NOTE

- The setting of the text/title scroll function is in common with Radio Text Scroll of the RBDS mode.

MD/External disc control features

Presetting Disc Names

(Function of disc changers)

Store the names of discs to be displayed when played.

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

NOTE

- This function is not available for disc changers that do not feature the Disc Name Preset function.
 - This procedure is not to be used to store the disc and track titles for MDs that you record.
- 2 Hold down the NAME.S button for two seconds or more. "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 Press either the ◀◀ or ▶▶ button to move the cursor to the desired position. The ◀◀ button moves the cursor to the left, and the ▶▶ button to the right. You can also move the cursor left or right by pressing the TRACK+ or TRACK- buttons, respectively, on the remote control.
 - 4 Each time the ▶|| button is pressed, the characters to be entered change as listed below. Press the DISC+ or DISC- button to display the desired character. Characters that can be displayed are as follows.

Alphabet (upper case): A ~ Z

Alphabet (lower case): a ~ z

Numerals and symbols: 1~9 0 @ " ' ' % & * + = , . / \ < > []

Special characters: á à â é ê ì í ò ó ü Ñ Ç Ò Ñ Ç Ò Ñ Ç Ò Ñ Ç
ë ì í ò ó ü Ñ Ç Ò Ñ Ç Ò Ñ Ç

NOTE

The operation and characters that can be entered may change

as listed below, depending on the unit that is connected. A press of the ▶|| button exits the disc name preset mode. Operations can be followed again from Step 2 at a time such as this, and the characters to be input are selected using the procedure described below. Press the DISC+ or DISC- button to display the desired character. Besides the alphabet (capital letters only) and numbers, you can choose the following characters: /, +, -, *, =, <, >, [and].

- 5 Continue steps 3 and 4 until all the characters are chosen for the name.
- 6 Press either the NAME.S button on the main unit or the OK button on the remote control. The disc name is stored and the disc name preset mode is cancelled. If you make no entry in a 10-second period, the name will be stored with the characters input so far.

NOTE

- The number of characters and discs whose names can be stored will differ depending on the disc changer that is connected. Please see your disc changer manual for details.
- 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.

Disc Name Preset Play (DNPP)

Function of remote with DNPP button

If you have preset the name of a disc that you want to listen to in the disc changer, you can look for it by name and start

playing it.

- 1 Press the DNPP button on the remote. "DNPP" will appear in the display, and the disc name preset play mode is entered. The names of all the discs in the disc changer will appear successively in the display for five seconds each. Discs whose names have not been preset will appear as "NO NAME" in the display.

NOTE

- This function can only be used in disc changers that were manufactured or sold as of 1997. Also note that some units cannot provide a display unless the disc name preset has been made by the unit that is playing.
- Discs in the disc changer that have never been played before will appear as "NO ACCESS" when the disc names are displayed. When you cannot identify a disc because of the "NO ACCESS" display after inserting a disc magazine, try playing it using the disc scan or a similar function to display the disc name. Also note that "NO DISC" will be displayed when a disc has not been loaded.

Rapid display (forward / reverse):

Press the DISC+ or DISC- button.

Pressing the DISC+ button will rapidly display the preset names/disc titles in order.

Pressing the DISC- button will rapidly display the preset names/disc titles in reverse order.

2 When the name appears for the disc you want to play

Press the OK button.

The disc whose name is displayed will be recalled, and the disc name preset play (DNPP) mode will end.

To cancel DNPP mode:

Press the DNPP button.

The disc name preset play (DNPP) mode will be canceled.

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. "RDM ON" is displayed 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 (For disc changers)

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 ►► button. Another track will be selected and played.

NOTE

Random play is canceled when you stop playing a disc.

MD/External disc control features

Magazine Random Play (Function of disc changers)

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.
"MRDM ON" is displayed 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.

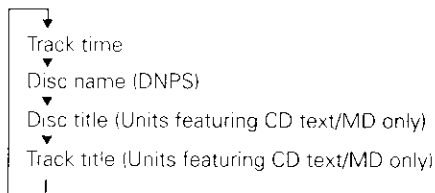
NOTE

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.



NOTE

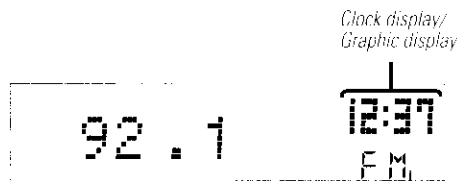
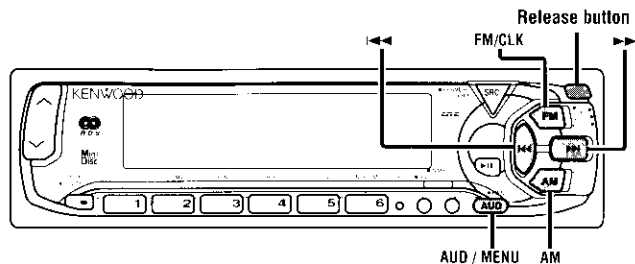
- You can give names to discs through the presetting disc name function (see p. 22).
Note that depending on the unit, display may not be possible.
- If you try to display the name of a disc that doesn't have one, "NO NAME" is displayed instead.
- When an attempt is made to display the title of a disc for which a disc title/track title has not been recorded, the CD will display "NO TEXT", the MD player built into this unit will display "NO TITLE", and an MD changer will display "NO NAME/NO TITLE".
- Depending on the type of characters of the CD Text, some characters may not be displayable.

Switching Display for Discs

Switch the display that appears while discs are playing.

Switching Display for Discs:

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



Switching Graphic Display

This function permits the graphic display to be switched to one that is linked with the volume level value or to display various modes. The initial setting is ON (displaying various modes).

Turning the Graphic Display On/Off:

- 1 Press the MENU button for at least one second.
'MFNU' is displayed and the menu mode is turned on.
- 2 Keep pressing the ►►► button until the Switching Graphic Display function appears in the display.
Press the ◀◀◀ button to search in the other direction.
The function setting is indicated by 'GRAP ON' or 'GRAP OFF' in the display, indicating that the Graphic display is on or off, respectively.
'GRAP ON' (The graphic display works.)
'GRAP OFF' (The graphic display does not work.)
- 3 **Switching settings**
Press either the AM or FM button.
The display and setting will change.
- 4 Press the MFNU button to end the menu mode

Other features

Audio Control Setting

Adjust various parameters of sound quality.

- 1 Press the AUD button to enter the control mode.
- 2 Press either the FM or AM button.
Each time the button is pressed, the adjustment mode will change as follows:
Pressing the FM button advances the display, and pressing the AM button reverses it.



NOTE Source tone memory

Each source (MD, FM, AM and disc changer) 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, FM mode uses the tone settings made for FM, AM for AM, etc.).

- 3 Press the ◀▶ button.
Look at the table to adjust the mode being displayed.

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.

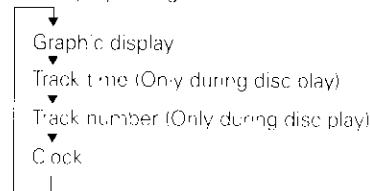
- 4 Press the AUD button to end the control mode.

Switching Display

You can change the display in each mode.

Changing the Display:

Each time you press the CLK button for at least one second, the display changes as follows:



Dimmer

You can dim the display.

NOTE

The dimmer function is not available for units if the dimmer wire is not connected.

Turning Dimmer On/Off:

- 1 Press the MENU button for at least one second.
"MENU" is displayed and the menu mode is turned on.
- 2 Keep pressing the ▶▶ button until the Dimmer function appears in the display.
Press the ◀◀ button to search in the other direction.
The function setting is indicated by "DIM ON" or "DIM OFF" in the display, indicating that the current dimmer setting is on or off.
- 3 **Switching settings**
Press either the AM button or FM button.
The display and setting will change.
- 4 Press the MENU button to end the menu mode.

Automatic Dimmer Function

The display dims when the car's lights are turned on.

NOTE

The dimmer function is not available for units if the dimmer wire is not connected.

Selectable Illumination

You can switch the color of the button illumination between green and amber.

- 1 Press the MENU button for at least one second. "MENU" is displayed and the menu mode is turned on.
- 2 Keep pressing the ►► button until the Selectable Illumination function appears in the display. Press the ◀◀ button to search in the other direction. The function setting is indicated by "COL GRN" or "COL AMB" in the display, indicating that the current color is green or amber, respectively.
- 3 **Switching settings**
Press either the AM button or FM button.
The display and setting will change.
- 4 Press the MENU button to end the menu mode.

Touch Sensor Tone

This function produces a beep sound that accompanies button operation. It can be switched on or off.

Switching the Beep On/Off:

- 1 Press the MENU button for at least one second. "MENU" is displayed and the menu mode is turned on.
- 2 Keep pressing the ►► button until the Touch Sensor Tone function appears in the display.

Press the ◀◀ button to search in the other direction. The function setting is indicated by "Beep ON" or "Beep OFF" in the display, indicating that the current beep setting is on or off, respectively.

3 Switching settings

Press either the AM or FM button.
The display and setting will change.

4 Press the MENU button to end the menu mode.

NOTE

The beep sound is not output from the preout jacks.

Disabled System Indicator (DSI)

A red indicator will blink on the unit after the faceplate is removed, warning potential thieves. The factory default for this function is ON.

Turning Disabled System Indicator On/Off:

- 1 Press the MENU button for at least one second. "MENU" is displayed and the menu mode is turned on.
- 2 Keep pressing the ►► button until the Disabled System Indicator function appears in the display. Press the ◀◀ button to search in the other direction. The function setting is indicated by "DSI ON" or "DSI OFF" in the display, indicating that the disabled system indicator is on or off, respectively.
- 3 **Switching settings**
Press either the AM or FM button.
The display and setting will change.
- 4 Press the MENU button to end the menu mode.

Other features

Contrast Adjustment

This adjustment permits easy viewing of the display.

To adjust the contrast:

- 1 Press the MENU button for at least one second. "MENU" is displayed and the menu mode is turned on.
- 2 Keep pressing the ►► button until the Contrast Adjustment function appears in the display. Press the ◄◄ button to search in the other direction. The function setting is indicated by "CONT ##" in the display, indicating that the Contrast Adjustment mode is on.
- 3 **Switching settings**
Press either the AM button or FM button. Press the FM button to change the setting values higher, and press the AM button to change them lower. Settings may be made from 0 to 10.
- 4 Press the MENU button to end the menu mode.

NOTE

The "##" display in the contrast adjustment mode will differ depending on the setting. The initial setting value is "5".

Adjusting Time

You can adjust the time manually. Also, with the automatic time adjustment function set at ON, you can set the clock time automatically according to time data sent from RBDS stations (after receiving RBDS signals for several minutes). The factory default is manual time adjustment.

Adjusting Time Manually:

- 1 Press the MENU button for at least one second. "MENU" is displayed and the menu mode is turned on.
- 2 Keep pressing the ►► button until the "CLK ADJ" appears in the display. Press the ◄◄ button to search in the other direction.
- 3 Press either the AM or FM button for at least two seconds to

enter the Time Adjustment mode. The time display will blink.

- 4
 - Adjusting the hours
Press the FM button to advance the hours, or press the AM button to make the hours go back.
 - Adjusting the minutes
Press the ►► button to advance the minutes, or press the ◄◄ button to make the minutes go back.
- 5 Press the MENU button to end the menu mode.

NOTE

Manual adjustment is effective only when the automatic adjustment is off.

Turning Automatic Time Adjustment On/Off:

- 1 Press the MENU button for at least one second. "MENU" is displayed and the menu mode is turned on.
- 2 Keep pressing the ►► button until the Automatic Time Adjustment function appears in the display. Press the ◄◄ button to search in the other direction. The function setting is indicated by "SYNC ON" or "SYNC OFF" in the display, indicating that the Automatic Time Adjustment is on or off, respectively. "SYNC ON" (Automatic time adjustment) "SYNC OFF" (Manual time adjustment)
- 3 **Switching settings**
Press either the AM or FM button. The display and setting will change.
- 4 Press the MENU button to end the menu mode.

Adjusting Time Automatically:

Tune to a RBDS station and receive the signal for several minutes. The clock will adjust automatically to the local time.

NOTE

The clock will not adjust automatically if the RBDS station tuned to is not transmitting time data. In such a case, try another RBDS station.

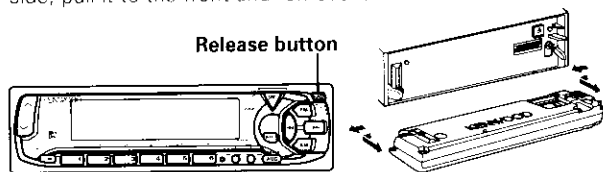
Theft Deterrent Faceplate

The faceplate of the unit can be detached and taken with you, helping to deter theft.

Removing Faceplate:

Press the release button and drop open the faceplate.

In its dropped condition, while drawing the faceplate to one side, pull it to the front and remove it.

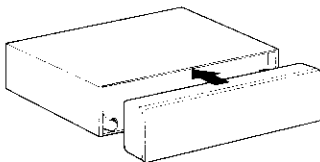


NOTE

- The faceplate is a precision piece of equipment and can be damaged by shocks or jolts. For that reason, keep the faceplate in its special storage case while detached.
- Do not expose the faceplate or its storage case to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.

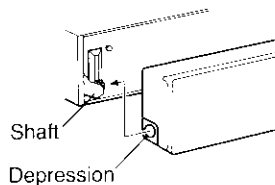
Reattaching Faceplate:

Hold the faceplate so that the operation face faces the front toward you and press until it locks. The faceplate will be set and the unit will be operational.










NOTE

When there is difficulty in setting the faceplate, align the depression on the left side of the faceplate with the shaft of the unit, then lock.





Accessories

	External view	Number of items
①	1
②	1
③	2
④	1
⑤	4
⑥	4
⑦	2


▲CAUTION

The use of any accessories except for those provided might result in damage to the unit. Make sure only to use the accessories shipped with the unit, as shown above.

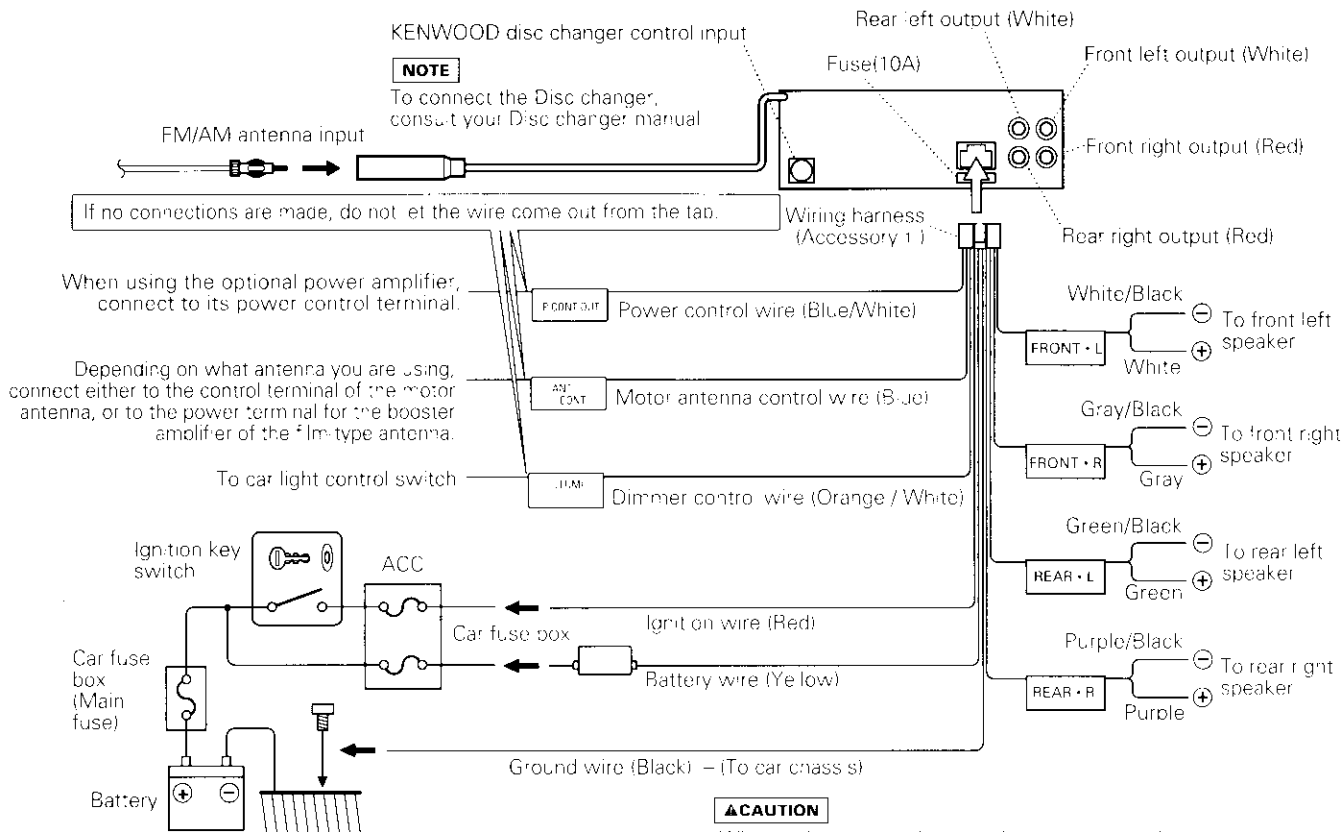
Installation Procedure

1. To prevent a short circuit, remove the key from the ignition and disconnect the  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  battery.
8. 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 faceplate 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 be damaged or fail to work if you share the  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.
- Insulate unconnected wires with vinyl tape or other similar material.
- Some disc changers need conversion cords for connection. See the section on "Safety Precautions" for details.
- Mount the unit so that the mounting angle is 30° or less.

Connecting Wires to Terminals



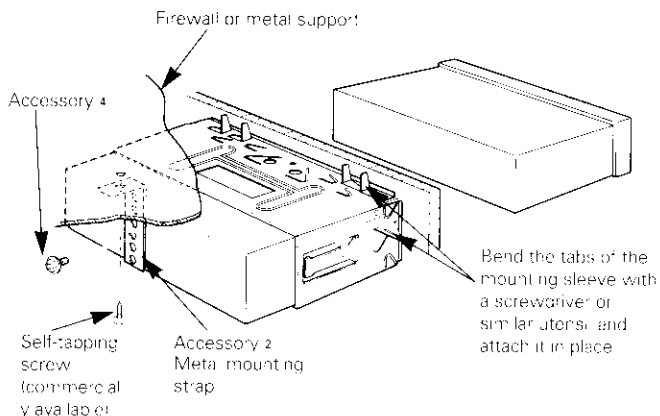
⚠ WARNING

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.

⚠ CAUTION

When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear). For example, if you connect the + connector of the left speaker to a front output terminal, do not connect the - connector to a rear output terminal.

■ Installation

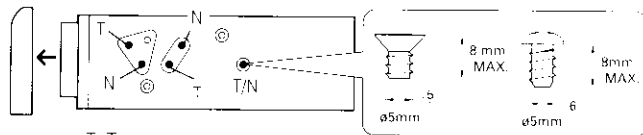


NOTE

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 Refer to the section "Removing the hard rubber frame (P. 33)" and then remove the hard rubber frame.
- 2 Align the holes in the unit (two locations on each side) with the vehicle mounting bracket and secure the unit with the accessory screws.



T: Toyota cars
N: Nissan cars

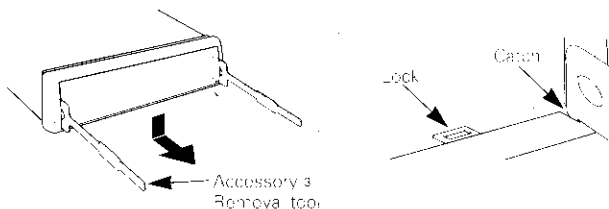
Accessory 5...for Nissan car
Accessory 6...for Toyota car

CAUTION

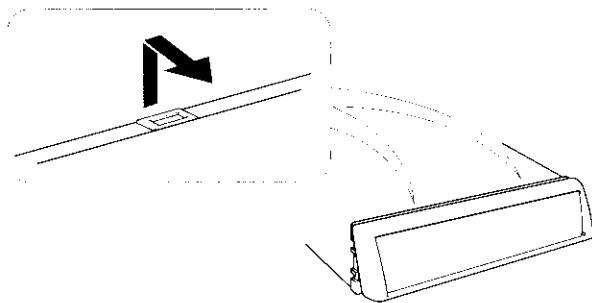
- During installation, do not use any screws except for those provided. The use of different screws might result in damage to the main unit.
- Damage may occur if a screwdriver or similar tool is used with excessive force during the installations.

■ Removing the hard rubber frame

- 1 Engage the catch pins on the removal tool and remove the two locks on the lower level.
Lower the frame and pull it forward as shown in the figure.



- 2 When the lower level is removed, remove the upper two locations.

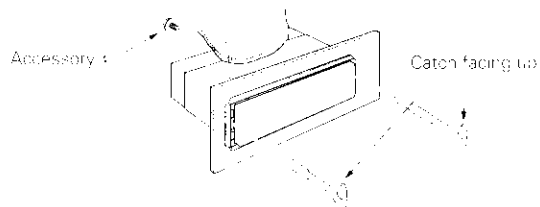


NOTE

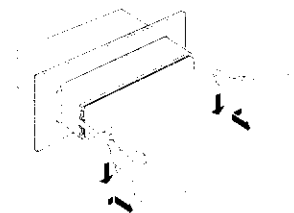
The frame can be removed from the top side in the same manner.

■ Removing the Unit

- 1 Refer to the section "Removing the hard rubber frame (P. 33)" and then remove the hard rubber frame.
- 2 Remove the Hex-head screw with integral washer (M4x8) on the back panel.
- 3 Insert the two removal tools deeply into the slots on each side, as shown.



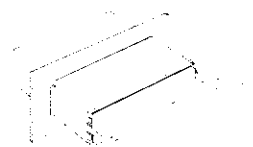
- 4 Lower the removal tool toward the bottom, and pull out the unit halfway while pressing towards the inside.



CAUTION

Be careful to avoid injury from the catch pins on the removal tool.

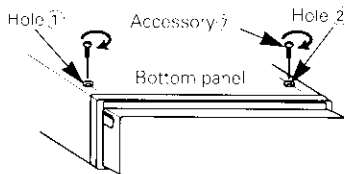
- 5 Pull the unit all the way out with your hands, being careful not to drop it.



■ Screwing the Faceplate on the Unit

If you want to fasten the faceplate to the main unit so that it does not fall off, insert the provided screws ($\phi 2.6 \times 12\text{mm}$) in the holes as follows.

- 1 Insert one of the provided screws into hole ① so that the screw is perpendicular to the bottom panel of the unit.
- 2 Similarly, insert another provided screw into hole ②.



Ensure that the faceplate is fixed firmly before operating this unit.

CAUTION

Never insert the tapite screws ($\phi 2.6 \times 12\text{mm}$) in any other screw holes than the one specified. If you insert it in another hole, it will contract and may cause damage to the mechanical parts inside the unit.

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.	Attenuator is turned on	Turn off 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".
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. 6).
The sound quality is poor or distorted.	One of the speaker wires is being pinched by a screw in the car.	Check the speaker wiring.
	The speakers are not wired correctly.	Reconnect the speaker wires so that each output terminal is connected to a different speaker.
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".
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 ignition and battery wire are incorrectly connected.	Connect the wire correctly, referring to the section on "Connecting Wires to Terminals".
MD mode cannot be set.	The faceplate was closed while the MD was being ejected.	Press the eject (▲) button and reinsert the MD.
The MD cannot be inserted.	There is already an MD loaded.	Eject the currently loaded MD and then load the new one.
The MD does not load.	The insertion orientation of the MD is incorrect or the MD is upside down.	Insert the MD in the proper orientation.
The MD loads but soon comes out again.	Nothing is recorded on the MD.	Switch the MD for one that is recorded.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The sound skips	The mounting angle exceeds 30°. The mounting is unstable.	Adjust to an angle of less than 30°. Anchor the unit securely. When the sound skips at the same position even when the car is stopped, the problem lies with the MD.
There is no sound during playback	The MD is soiled with dust or dirt.	If another MD is played back and there is no problem, then the problem is due to the sound quality of the MD itself.
A track will not play	Random play has been selected.	Turn off random play.


External disc control mode

PROBLEM	POSSIBLE CAUSE	SOLUTION
The disc control 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 specified disc does not play, but another one plays instead.	The specified CD is quite dirty. The CD is upside-down. The disc is loaded in a different slot from that specified. The disc is severely scratched.	Clear the CD. Load the CD with the labeled side up. Eject the disc magazine and check the number for the specified disc. Try another disc instead.
The sound skips	Something is touching the disc changer. The CD is scratched or dirty.	Remove whatever is touching it. If skipping happens at the same place when the car is stopped, something with the CD is wrong. Clean the CD.
The display shows that the changer is being played, but no sound can be heard.	The computer chip in the unit is not functioning normally.	Press the reset button on the unit (see p. 6).
The specified track will not play.	Random play or magazine random play has been selected.	Turn off random play or magazine random play.

If the following situations, consult your nearest service center:

- Even though the disc changer is connected, the Disc Changer Mode is not on, with "AUX" showing in the display during the Changer Mode.
- Even though no device (KCA-S210A, CA-C1AX, KDC-CPS82 or KDC-CX82) is connected, the AUX Mode is entered when switching modes.

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 CD in the unit.
⇒ Insert the CD.
- NO DISC No disc has been loaded in the disc magazine.
⇒ Load a disc into the disc magazine.
- E-04 No disc has been loaded in the disc magazine.
⇒ Load a disc into the disc magazine.
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.
- NO PANFL The faceplate of the slave unit being connected to this unit has been removed.
⇒ Replace it.
- E-77 The unit is malfunctioning for some reason.
⇒ Press the reset button on the unit. If the "E- 77" code does not disappear, consult your nearest service center.
- E 99 Something is wrong with the disc magazine. Or the unit is malfunctioning for some reason.
⇒ Check the disc magazine. And then press the reset button on the unit. If the "E 99" code does not disappear, consult your nearest service center.
- i:OLD 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.
-  Nothing has been recorded to the MD you are trying to play.
⇒ Switch this MD for one that has been recorded.
The MD player section is not operating properly.
⇒ Reinsert the MD. If the MD cannot be ejected or the display continues to flash even when the MD has been properly reinserted, please switch off the power and consult your nearest service center.

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 μ V/75 Ω)
Quieting Sensitivity (S/N = 50dB)	15.2dBf (1.6 μ V/75 Ω)
Frequency response (\pm 3.0 dB)	30 Hz – 15 kHz
Signal to Noise ratio (MONO)	70 dB
Selectivity (\pm 400 kHz)	> 80 dB
Stereo separation (1 kHz)	40 dB

AM tuner section

Frequency range (10 kHz space)	530 kHz - 1700 kHz
Usable sensitivity (S/N = 20dB)	28 dB μ (25 μ V)

MD player section

Laser diode	GaAlAs (λ =760 – 800 nm)
Digital filter (D/A)	8 Times Over Sampling
D/A Converter	1 Bit
Frequency response (\pm 2 dB)	20 Hz – 20 kHz
Total harmonic distortion (1 kHz)	0.5 %
Signal to Noise ratio	90 dB (1 kHz)
Dynamic range	90 dB
Channel separation	85 dB
Spindle speed	400 – 800 rpm
Wow & Flutter	Below Measurable Limit

Audio section

Maximum output power	44 W x 4
Full bandwidth power (at less than 1% THD)	22 W x 4
Tone action	
Bass:	100 Hz \pm 10 dB
Treble:	10 kHz \pm 10 dB
Preout level / Load	1800mV/10k Ω
Preout impedance	\leq 600 Ω

General

Operating voltage	14.4 V (11 – 16 V allowable)
Current consumption	10 A
Installation size (W x H x D)	182 x 53 x 160 mm
	7-3/16 x 2-1/16 x 6-5/16 in.
Weight	4.0 Lbs (1.8 kg)