

KENWOOD

KMD-673R

MD-RECEIVER

INSTRUCTION MANUAL

KENWOOD CORPORATION

B64-1757-00 (EN)



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Safety precautions

▲WARNING

To prevent injury and/or fire, take the following precautions:

- Insert the unit all the way until it is fully locked in place. Otherwise it may fly out of place during collisions and other jolts.
- When extending the ignition, battery or ground cables, make sure to use automotive-grade cables or other cables with an area of 0.75mm² (AWG18) or more to prevent cable deterioration and damage to the cable coating.
- To prevent short circuits, never put or leave any metallic objects (e.g., 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 short circuits when replacing a fuse, first disconnect the wiring harness.
- Do not place any object between the faceplate and the unit.
- During installation, do not use any screws except for the ones provided. The use of improper screws might result in damage to the main unit.

IMPORTANT INFORMATION

About the disc changer to be connected:

To connect a disc changer having the "O-N" switch to this unit, set the "O-N" switch to "N".

To connect a disc changer having no "O-N" switch to this unit, the converter cord CA-DS100 and/or switching adapter KCA-S210A are required as options.

If a model with no "O-N" switch is connected, some unavailable functions and information that cannot be displayed are generated, such as the DNPS, DNPP, Magazine random play, and CD Text display. Note that none of the KDC-C100, KDC-C302, C205, C705, and non-Kenwood CD changers can be connected.

▲CAUTION

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

The marking of products using lasers (Except for some areas)

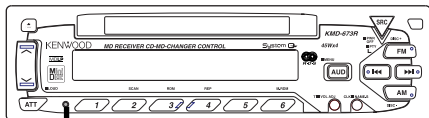
**CLASS 1
LASER PRODUCT**

The label is attached to the chassis/case and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

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).
- The illustrations of the display and the panel appearing in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the display in the illustrations may differ from what appears on the display on the actual equipment, and some of the illustrations on the display may represent something impossible in actual operation.
- The functions that can be used and the information that can be displayed will differ depending on the external disc players being connected.

Cleaning the Faceplate Terminals

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

Cleaning the Unit

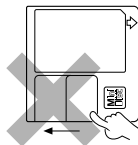
If the faceplate of this unit is stained, wipe it with a dry soft cloth such as a silicon cloth. If the faceplate is stained badly, wipe the stain off with a cloth moistened with neutral cleaner, then wipe neutral detergent off.

CAUTION

Applying spray cleaner directly to the unit may affect its mechanical parts. Wiping the faceplate with a hard cloth or using a volatile liquid such as thinner or alcohol may scratch the surface or erases characters.

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 instrument panel) or in other places that reach 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

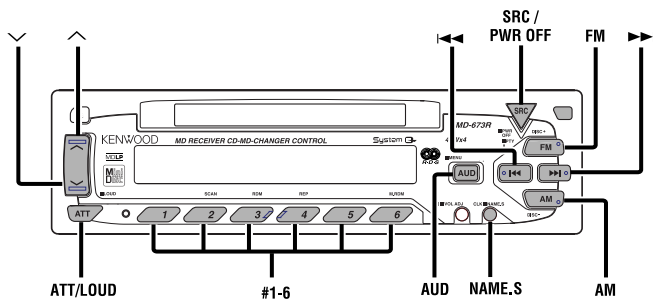
In cold climates, there may be a period after you turn on your vehicle's heater when the lens that guides the laser beam used in your MD player fogs up. If this happens, you cannot play mini discs. Take out discs and the fogging will disappear. If it does not return to normal after several hours, contact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

About the play time of MD long play performance time display

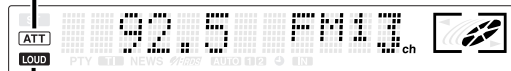
If the MD performance time goes over 100 minutes only the last 2 digits of performance time are shown.

US and foreign patents licensed from Dolby Laboratories Licensing Corporation.

General features



ATT indicator



LOUD indicator

Power

Turning on the power:

Press the SRC button.

NOTE

Turn the power on before carrying out the following procedures.

Turning off the power:

Hold down the PWR OFF button for one second or more.

Volume

Increasing Volume:

Press the ^ button to turn up the volume.

Decreasing Volume:

Press the v button to turn down the volume.

Attenuator

This function allows you to turn down the volume quickly.

Turning Attenuator On/Off:

Press the ATT button to switch the attenuator on and off.

When the attenuator is on, the ATT indicator blinks.

When the attenuator is off, the volume returns to the original level.

NOTE

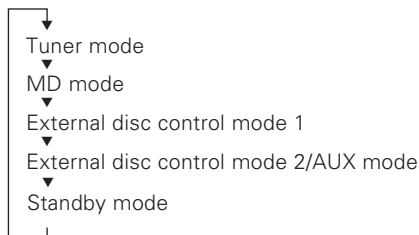
Turning the volume up, or turning it all the way down deactivates the attenuator function.

General features

Switching Modes

Switching Modes:

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



Selecting the standby mode:

Press the SRC button repeatedly to select to "ALL OFF". When "ALL OFF" is displayed, the standby mode is turned on. The standby mode turns all functions off although leaving the unit's power on. Use this mode when you want to have the display illuminated but do not want to listen to anything.

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.
- To enable the selection of External disc control mode 2/AUX mode, you should connect optional switching adapter KCA-S210A (which allows you to select both External disc control mode 2 and AUX mode) or CD changer (KDC-CPS87, KDC-CX87, KDC-CPS85, KDC-CX85, KDC-CPS82 or KDC-CX82) or switching adapter CA-C1AX (which allows you to select AUX mode only).
During the AUX mode, "AUX" (or AUX-name display) will show in the display. When the CA-C1AX is being used, the AUX Mode will replace the External Disc Control Mode.
- If you have selected Standby mode, the timer function that turns the power off automatically will be activated.
To find out how to set the time on the timer, and how to cancel

the timer function, refer to the section on the Power OFF Timer function under Menu settings (page 26).

NOTE Presetting AUX-name (Except the CA-C1AX)

In the AUX mode, press the NAME.S button for two seconds or more. "NAME SET" is display and AUX-name mode is entered. Input the characters, referring to the section on "Presetting Disc Names (DNPS)" (page 20).

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:

Hold down the LOUD button for one second or more to switch the loudness on and off.

Audio Control Setting

Adjust various parameters of sound quality.

- 1 Press the AUD button to enter the control mode.
- 2 **Selecting mode**
Press either the FM or AM button.
Each time the button is pressed, the adjustment mode will change.
Please refer to the following for the contents of the adjustment modes.

NOTE Source tone memory

Each source (CD, MD, FM, AM and disc changer) has its own memory in which to store the bass, middle, and treble tone settings.

The settings made for a particular source are then recalled automatically whenever you use that source (e.g., FM mode uses the tone settings made for FM, AM for AM, etc.).

- 3 **Adjust each mode**

Press the ◀◀/▶▶ button.

Please refer to the following for the adjusting values.

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

"Bass" : Adjust the bass level.

Setting values: - 8 – + 8

"Mid" : Adjust the middle level.

Setting values: - 8 – + 8

"Treble" : Adjust the treble level.

Setting values: - 8 – + 8

"Balance" : Adjust the balance level.

Setting values: Left 15 – Right 15

"Fader" : Adjust the fader level.

Setting values: Rear 15 – Front 15

"V OFFSET" : Set the sound level of the each source selected by adjusting the level difference between the basic sound level and the required level.

Setting values: - 8 – ± 0

"SYS-Q" : < System Q > Recalling the kenwood preset sound setting

Press the preset buttons (#1-6).

Settings: #1;Flat ('SYS-Q Flat"), #2;Rock ('SYS-Q Rock"), #3;Top40 ('SYS-Q Top40"), #4;Pops ('SYS-Q Pops"), #5;Jazz ('SYS-Q Jazz"), #6;Easy ('SYS-Q Easy")

NOTE

The System Q function changes the values of the following sound quality parameters:

Bass centre frequency, bass level, bass quality factor, bass extend, middle centre frequency, middle level, middle quality factor, treble centre frequency, and treble level.

Their setting values are different depending on the setting of the speaker setting mode.

Speaker Setting

This function allows you to adjust the setting that is recalled with the System Q, according to types of speakers.

- 1 Press the SRC button repeatedly to select the standby mode. "ALL OFF" is displayed when the standby mode is selected.
- 2 Press the AUD button to enter the speaker setting mode.
- 3 Press either the ◀◀ or ▶▶ button to select the type of speaker. The setting switches as follows.
Off ("SP OFF") / For the OEM speaker ("SP OEM") / For 6/6x9 in. speaker ("SP 6/6x9inch") / For 5/4 in. speaker ("SP 5/4inch")
- 4 Press the AUD button to end the speaker setting mode.

NOTE

Speaker setting function allows for tuning of bass, middle and treble

General features

TEL Mute

Shut down the audio system temporarily whenever an incoming call is received.

NOTE

The function will not work if a cable is not connected to the car phone.

When the telephone rings:

When a call is received, "CALL" is displayed and all the unit functions are temporarily interrupted.

Restoring Original Unit Source During Phone Call:

Press the SRC button.

"CALL" disappears from the display, and the volume of the original source is restored gradually.

Turning TEL Mute Function Off After Phone Call:

Hang the phone up.

"CALL" disappears from the display.

The original source (i.e., the one used before the phone call) is returned to automatically, and the volume restored gradually.

damaged by shocks or jolts. For that reason, keep the faceplate in its special storage case whilst detached.



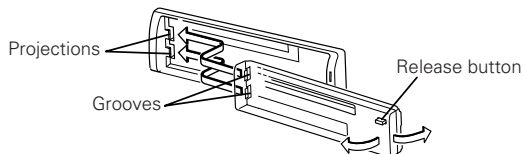
- Do not expose the faceplate or its storage case to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.

Reattaching Faceplate:

- 1 Align the projections on the unit with the grooves on the faceplate.
- 2 Push the faceplate in until it clicks.
The faceplate is locked in place, allowing you to use the unit.

Theft Deterrent Faceplate

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



Removing Faceplate:

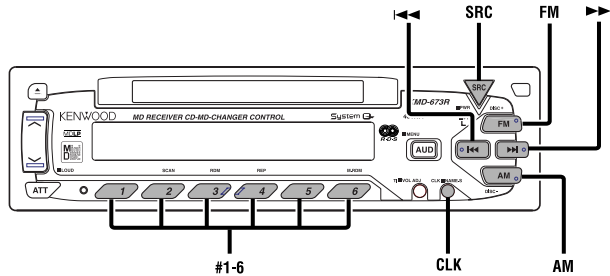
Press the release button.

The faceplate is unlocked, allowing you to detach it.

NOTE

- The faceplate is a precision piece of equipment and can be

Tuner features



Tuning

- 1 Press the SRC button repeatedly until the tuner mode is obtained. "TUNER" is displayed only when the tuner mode is 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. Press the AM button to select the MW and LW bands.
- 3
 - Auto Seek Tuning
Press the ►►► button to seek increasing frequencies.
Press the ◀◀◀ button to seek decreasing 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).

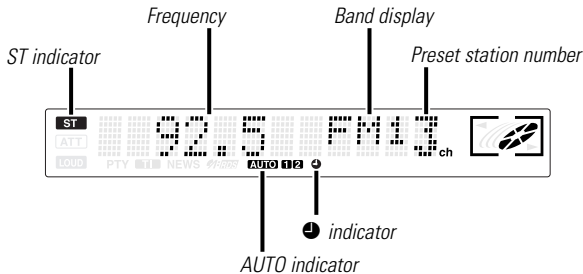
NOTE

If the frequencies stored at the preset numbers receive stations which were not originally memorized when traveling long distances, the preset number is not displayed. In such cases, pressing the ◀◀◀/►►► button to use preset station seek will receive channel 1.

- Manual Tuning
Press the ►►► button to increase the frequency by one step.
Press the ◀◀◀ button to decrease the frequency by one step.

NOTE

- The ST indicator lights up when stereo broadcasts are being received.
- Please see the menu settings about selecting tuning mode. (page 25)



Tuner features

Station Preset Memory

Store the frequency of the station currently being listened to. 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 Hold down the button (#1-6) that you want to use for the station, for two seconds or more.
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 6 stations in each of the FM1, FM2, FM3, and AM (MW and LW) bands.

- If the RDS station currently tuned to is transmitting no text whilst the Radio Text Display mode is turned on, "NO TEXT" will appear in the display. Whilst awaiting reception, "WAITING" will be displayed.
- The  indicator lights whilst the clock is displayed.

⚠WARNING

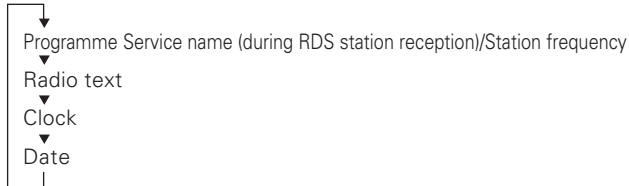
To prevent accidents, drivers should not look at the display whilst on the road.

Switching Display for Tuner

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

Switching the Display:

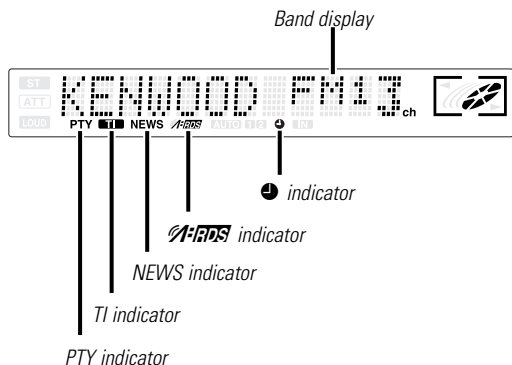
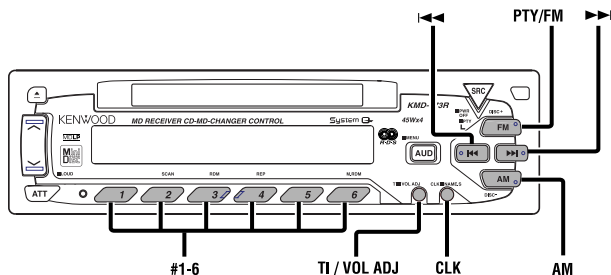
Pressing the CLK button switches the display as follows. Select the Radio Text Display mode.



Displaying Frequencies:

Hold down the CLK button for one second or more. The frequency for the RDS station will be displayed for five seconds instead of the station name.

NOTE



RDS (Radio Data System)

RDS is a digital information system that lets you receive signals besides those of regular radio programmes, such as network information being transmitted from radio stations. When listening to an RDS station (ie, a station with RDS capability), the programme service name of the station is displayed along with the frequency, advising you quickly which station is being received.

RDS (Radio Data System) stations also transmit frequency data for the same station. When you are making long trips, this function automatically switches to the particular frequency with the best reception for the particular network of stations that you want to listen to. The data is automatically stored, allowing you to switch quickly to another RDS stations, broadcasting the same programme, that has better reception. These include stations stored in the station preset memory that you often listen to.

Enhanced Other Network

Stations that offer <Enhanced Other Network> also transmit information about other RDS stations that have traffic information. When you are tuned to a station that is not transmitting traffic information, but another RDS station starts transmitting a traffic bulletin, the tuner automatically switches to the other station for the duration of the bulletin.

Alarm

When an emergency transmission (announcing disasters, etc.) is sent, all current functions are interrupted to allow the warning to be received.

RDS features

Programme Type (PTY) Function

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

- Hold down the PTY button for one second or more. "PTY" is displayed, and the Programme Type Selection (PTY) Mode entered. If you make no key input in 30 seconds, the mode will automatically turn off.

NOTE

You cannot use this function whilst the traffic bulletin is received.

NOTE Changing the Display Language to French, German, or Swedish

In the PTY mode, press the CLK button to display the name of the language currently used.

If you want to change the language, press the preset button for the desired language and then the CLK button.

English is #1, French is #2, German is #3, and Swedish is #4

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:

	<i>Speech</i>	(<i>Speech</i>)
	<i>Music</i>	(<i>Music</i>)
1.	News	(News)
2.	Current Affairs	(Affairs)
3.	Information	(Info)
4.	Sports	(Sport)
5.	Education	(Educate)
6.	Drama	(Drama)
7.	Culture	(Culture)
8.	Science	(Science)
9.	Varied	(Varied)
10.	Pop Music	(Pop M)
11.	Rock Music	(Rock M)
12.	Easy Listening Music	(Easy M)
13.	Light Classical	(Light M)
14.	Serious Classical	(Classics)
15.	Other Music	(Other M)
16.	Weather	(Weather)
17.	Finance	(Finance)

18.	Children's programmes	(Children)
19.	Social Affairs	(Social)
20.	Religion	(Religion)
21.	Phone In	(Phone In)
22.	Travel	(Travel)
23.	Leisure	(Leisure)
24.	Jazz Music	(Jazz)
25.	Country Music	(Country)
26.	National Music	(Nation M)
27.	Oldies Music	(Oldies)
28.	Folk Music	(Folk M)
29.	Documentary	(Document)

(*Speech*.....1~9,16~23, 29, *Music*.....10~15, 24~28)

- 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. <i>Music</i>	2. <i>Speech</i>	3. News
4. Other Music	5. Serious Classical	6. Varied

NOTE Changing the Preset Button Settings for Programme Type

After selecting the type of programme to be stored in a certain preset button, hold 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.

"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.

Canceling Programme Type Function During Its Operation:

Press the PTY button for one second or more.

- Holding the TI button down for one second or more when the TI function is on in the disc control mode results in a change to the frequency display of the traffic information station for five seconds.

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:

Press the TI button to turn the function on and off.

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, and reception will begin at the preset volume.

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.

NOTE

Pressing the TI button whilst in the MW/LW band automatically switches reception to the FM band. However, the MW/LW band is not returned to when the TI button is pressed again.

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 the auto TP seek function is turned on and reception starts to weaken, the tuner automatically seeks traffic information stations with better reception.
- If you are tuned to a station that is not a traffic information station itself but which provides <Enhanced Other Network> services, you can still have traffic information received.

Presetting Volume for Traffic Information/News

Preset the volume level to be used for traffic information and news broadcasts.

- 1 Tune into the station for which you want to set the volume.
- 2 Adjust the volume to the desired level.
- 3 Hold down the VOL ADJ button for two seconds or more. The volume level blinks once in the display to indicate that the data has been stored. Future traffic information/news broadcasts are heard at the preset level.

NOTE

- The volume cannot be lowered by this function during tuner reception. The volume is only set when it is louder than the listening volume of the tuner.
- You can arrange only to listen to traffic information or news bulletins with at preset volume with the volume set at minimum.

RDS features

Radio Text Scroll

This function permits the text to be scrolled and the entire text to be displayed. The scrolling method differs depending on the setting of scrolling in the menu.

To scroll manually:

- 1 Press the CLK button to display the Radio Text.
- 2 Holding down the CLK button for one second or more results in one scrolling display of the text.

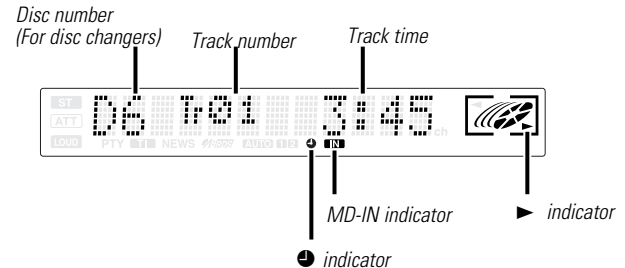
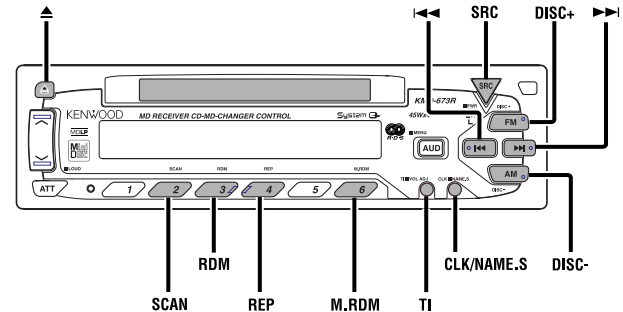
To scroll automatically:

- 1 Press the CLK button to display the Radio Text.
The text will be displayed in one scrolling display.
- 2 Holding down the CLK button for one second or more results in one scrolling display of the text.

NOTE

Please see the menu settings (page 26) about switching between manual scrolling and automatic scrolling.

MD/External disc control features



Playing MDs

Playing MDs:

If no MDs are inserted, insert one in the slot with the label facing up.

If an MD is already inserted, press the SRC button repeatedly until the MD mode.

"MD" is displayed when the MD mode has been selected.

The MD will start playing.

The MD-IN indicator lights up when an MD has been inserted.

The ► indicator lights up when an MD is being played.

Stopping and Ejecting MDs:

Press the ▲ button.

The MD stops playing and ejects from the slot.

▲CAUTION

Do not attempt to insert an MD into the slot if another one is already there.

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 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
- "DISC1", "DISC2" ...when two disc changers are connected

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.

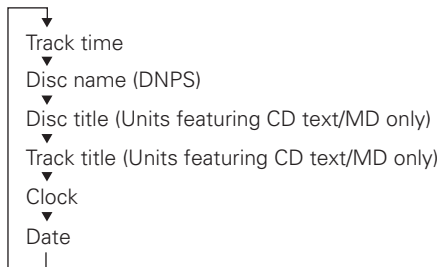
MD/External disc control features

Switching Display for Discs

Switch the display that appears whilst discs are playing.

Switching Display for Discs:

Each time you press the CLK button, the display during disc play switches as follows.



NOTE

- DNPS: Function of disc changers
- You can give names to discs through the presetting disc name function (see p.20).
Note that depending on the unit, display may not be possible.
- If you try to display the name of a disc that does not have one, "NO NAME" is displayed instead.
- When there is an attempt to display the title of a disc for which the disc title/track title has not been recorded, "NO TEXT" is displayed for CD and "NO TITLE/NO NAME" is displayed for MD.
- Depending on the type of characters of the CD Text, some characters may not be displayable.
- The ● indicator lights whilst the clock is displayed.

Fast Forwarding and Reversing Disc Play

Fast Forwarding Disc Play:

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

Reversing Disc Play:

Hold down on the I◄◄ 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 cancelled when it reaches the beginning of a track, at which point normal play automatically resumes.

Track Search

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

Making a Reverse Track Search:

Press the I◄◄ 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 I◄◄ button whilst listening to track 1 only searches 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 ►►I 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.

Disc Search

(Function of disc changers)

Search forwards or backwards through the discs in a disc changer until you reach the one that you want to listen to.

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 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. "Scan/T-Scan ON" is displayed and the first 10 seconds of each track are played, and the tracks are played in order.

The track number currently being heard blinks in the display.

Stopping to Listen to the Track Being Scanned:

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

NOTE

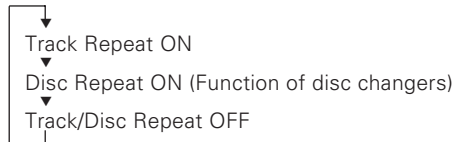
- The track scan function is cancelled when you eject the disc.
- The track scan function only scans each track on a disc once.

Track / Disc Repeat

Repeat playing the current track or disc.

Turning Repeat Play Function On/Off:

Press the REP button to switch the repeat play function on and off as follows :



"Repeat/T-Repeat ON" is displayed and the track number blinks in the display when track repeat is on.

"D-Repeat ON" is displayed and the disc number blinks in the display when disc repeat is on.

NOTE

Repeat play is cancelled when you eject the disc.

MD/External disc control features

Random Play

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

- 1 Press the RDM button to switch the random play function on and off.
"Random ON" is displayed when random play is turned on.
The display of the track number changes continuously as the next track is being selected.
When the track has been selected, play starts.
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 the random play function, the next disc on the changer starts playing (with the random play function still turned on).

- 2 To change the track being heard, press the ►► button.
Another track is selected and played.

NOTE

Random play is cancelled when you eject the disc.

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 the magazine random play function on and off.
"M-Random ON" is displayed when magazine random play is turned on.
The display of the disc and track numbers change continuously as the next track is being selected.
When the disc/track has been selected, play starts.
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 is selected and played.

NOTE

- Magazine random play is cancelled when you eject the disc.
- The time needed for random selection depends on the number of discs loaded in the disc magazine.

Text / Title Scroll

This function permits the text to be scrolled and the entire text to be displayed. The scrolling method differs depending on the setting of scrolling in the menu.

To scroll manually:

- 1 Press the CLK button to display the disc title or the track title.
- 2 Holding down the CLK button for one second or more results in one scrolling display of the titles.

To scroll automatically:

- 1 Press the CLK button to display the disc title or the track title.
The titles will be displayed in one scrolling display.

NOTE

When the disc or track to be played changes, the title is displayed in one scrolling display.

- 2 Holding down the CLK button for one second or more results in one scrolling display of the titles.

NOTE

- Please see the menu settings (page 26) about switching between manual scrolling and automatic scrolling.
- You cannot use the text scroll function during magazine random play.

MD/External disc control features

Presetting Disc Names(DNPS) *(Function of disc changers)*

Store the names of discs to be displayed when played.

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

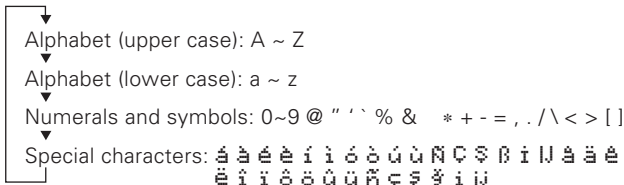
NOTE

- 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.
- The disc name preset function cannot be used when a disc title name or track title is displayed.

- 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.

- 4 Each time the TI 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.



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

NOTE

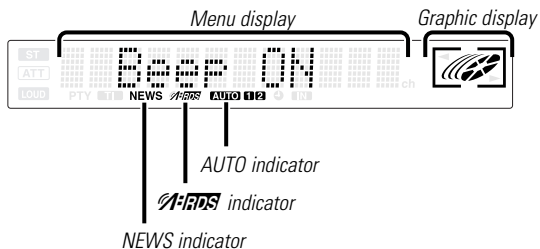
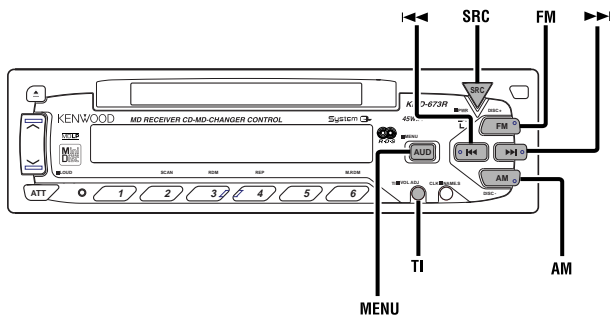
You can enter up to eight characters for each name.

- 6 Press the NAME.S button. 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.

Menu settings



Menu System

You can set the defaults for additional functions in the menu mode.

Make a setting for each function, referring to the following operations.

1 Enter the menu mode

Hold down the MENU button for one second or more. "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 FM button to search through the functions until you see the one you want to adjust in the display.

Press the AM button to search through the functions backward.

Example: If you want to switch the tuning mode from auto1 to manual, first search through the functions until you see "Auto 1" in the display.

Auto 1

3 Changing setting for currently displayed function

Press either the ◀◀ or ▶▶ button.

The setting will change for each function.

Example: The tuning mode will switch from auto 1 to auto 2.

Pressing the button again switches the setting to manual, and "Manual" is displayed.

Auto 2 → Manual

4 Ending the menu mode

Press the MENU button.

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, the News Bulletin function with PTY news timeout setting, and the Alarm function.

Menu settings

Touch Sensor Tone

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

Display and setting:

"Beep ON" : Beep setting is on.

"Beep OFF" : Beep setting is off.

NOTE

The beep sound is not output from the preout jacks.

Manual Time Adjustment

Adjust the time manually.

NOTE

This adjustment is available only when the automatic time adjustment is set to off. (page 23)

Display and setting:

- 1 Select the display "Clock Adjust" during the selecting function in the menu system.
- 2 Hold down either the **◀◀** or **▶▶** button for two seconds or more to enter the Manual time adjustment mode. The time display will blink.
- 3
 - 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.
- 4 Press the MENU button to end the menu mode.

Calendar Adjustment

Adjust the date for the unit so that you can use the calendar function.

Display and setting:

- 1 Select the display "Date Adjust" during the selecting function in the menu system.
- 2 Hold down either the **◀◀** or **▶▶** button for two seconds or more to enter the Calendar adjustment mode. The date display will blink.
- 3 **Selecting the item (day, month, or year) to adjust**
Press the **◀◀** or **▶▶** button. The item blinking in the display can be adjusted.
- 4 **Adjusting the date**
Press the FM or AM button. The item of the date blinking in the display will change.
- 5 Press the MENU button to end the menu mode.

Calendar Mode

You can set the date formats of the calendar function.

Display and setting:

- 1 Select the display "Date Mode" during the selecting function in the menu system.
- 2 Press the **◀◀** and **▶▶** button to select the date format you want to show in the display. The sample of the date format for today is displayed.

Memo Mode

You can input the text to be displayed and set the date when that text will appear in the display with the calendar function.

Display and setting:

- 1 Select the display "Memo Mode" during the selecting function in the menu mode.

Menu settings

Disabled System Indicator (DSI)

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

Display and setting:

"DSI ON" : The disabled system indicator is on.
 "DSI OFF" : The disabled system indicator is off.

Selectable Illumination

You can switch the colour of the button illumination between green and red.

Display and setting:

"Color Green" : The colour of the illumination is green.
 "Color Red" : The colour of the illumination is red.

Contrast Adjustment

This adjustment permits easy viewing of the display.

Display and setting:

"Contrast 0" – "Contrast 10"

NOTE

The initial setting value is "5".

Switching Graphic Display

You can turn the graphic display on and off.
 The initial setting is ON.

Display and setting:

"Graphic ON" : The graphic display is on
 "Graphic OFF" : The graphic display is off.

News Bulletin Function with PTY News Timeout Setting

You can arrange to have news bulletins interrupt your current listening source, including other radio stations. When the News Bulletin function is on, the PTY News Timeout setting allows you to set the interval during which further news interruption cannot take place. You can adjust the PTY news interruption period from 10 to 90 minutes for each journey.

Display and setting:

"NEWS OFF/ 00min/ 10min/ 20min/ 30min/ 40min/ 50min/
 60min/ 70min/ 80min/ 90min" (min= minutes)

: When you select the news interruption timeout interval, the News function turns on and the NEWS indicator lights up.
 When a news bulletin is received, "NEWS" will be displayed and reception will begin at the preset volume.

NOTE

- If you choose the "20min" setting, further news bulletins will not be received for 20 minutes once the first news bulletin is received.
- This function is only available if the desired station sends PTY-code for news bulletin or belongs to <Enhanced Other Network>-Network sending PTY-code for news bulletin.
- If you turn on the news bulletin function in the MW/LW band, the band is switched automatically to the FM band. However, the MW/LW band is not returned to when you turn off the function.

Local Seek Function

With the local seek function turned on, auto seek tuning skips stations with relatively poor reception.

Display and setting:

"Local.S ON" : The local seek function is on.

"Local.S OFF" : The local seek function is off.

Selecting Tuning Mode

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.

Display and setting:

"Auto 1" : Auto seek tuning mode

"Auto 2" : Preset station seek tuning mode

"Manual" : Manual tuning mode

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 6 frequencies can be stored this way.

Display and setting:

- 1 Select the display "Auto-Memory" during the selecting function in the menu system.
- 2 Hold down either the ◀◀ or ▶▶ button for two seconds or more to start auto memory function.
The numbers of the preset station buttons showed 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.

NOTE

- When the AF function is turned on whilst auto memory entry takes place, only RDS stations (i.e., stations with RDS capability) are stored. RDS stations that have been preset for FM1 cannot also be preset in FM2 or FM3.
- When the local seek function is turned whilst auto memory entry takes place, stations with poor reception are not stored.
- When the Traffic Information function is on, only the local traffic information station frequency will be stored.

Cancelling Auto Memory Entry During Its Operation:

Press the MENU button whilst auto memory entry is taking place to stop the process.

Recalling a Preset Station:

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

AF (Alternative Frequency) Function

When poor reception is experienced, automatically switch to another frequency broadcasting the same programme in the same RDS network with better reception. The ~~AF~~ indicator lights up when the AF function is turned on.

Display and setting:

"AF ON" : The AF function is on.

"AF OFF" : The AF function is off.

NOTE

- When no other stations with stronger reception are available for the same programme in the RDS network, you may hear the incoming broadcast in bits and snatches. Turn off the AF function in such a case.
- The AF function can be turned on or off even when the standby mode has been turned on. If the power is on, the AF function tunes in to stations that offer good reception.

Menu settings

Restricting RDS Region (Region Restrict Function)

You can choose whether or not to restrict the RDS channels, received with the AF function for a particular network, to a specific region. When the Region Restrict Function is on, the region is restricted.

Display and setting:

"Regional ON" : The Region Restrict Function is on.

"Regional OFF" : The Region Restrict Function is off.

NOTE

Sometimes stations in the same network broadcast different programmes or use different programme service names.

Auto TP Seek Function

When the TI function is on and poor reception conditions are experienced when listening to a traffic information station, another traffic information station with better reception will be searched for automatically. This function is on, when unit is first powered on.

Display and setting:

"ATPS ON" : The Auto TP Seek Function is on.

If the traffic information station you are tuned to experiences poor reception, this function automatically seeks another TP station.

"ATPS OFF" : The Auto TP Seek Function is off.

Monaural Reception

When poor stereo reception is experienced, this function will reduce noise and improve listening conditions.

Display and setting:

"MONO ON" : The monaural reception is on.

"MONO OFF" : The monaural reception is off.

Text Scroll

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

Display and setting:

"Scroll Auto" : Automatic scrolling

"Scroll Manu" : Manual scrolling

Power OFF Timer

Set the time for the OFF Timer function activated when you selected Standby mode.

If the predefined time elapses, this unit's power is automatically turned off.

Display and setting:

"OFF ----" : Power OFF Timer function is cancelled.

"OFF 20min" : Unit's power goes OFF after 20 minutes.
(Default setting)

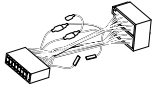
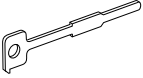

"OFF 40min" : Unit's power goes OFF after 40 minutes.

"OFF 60min" : Unit's power goes OFF after 60 minutes.

Accessories

External view

Number of items

①	1
②	2
③	1

▲CAUTION

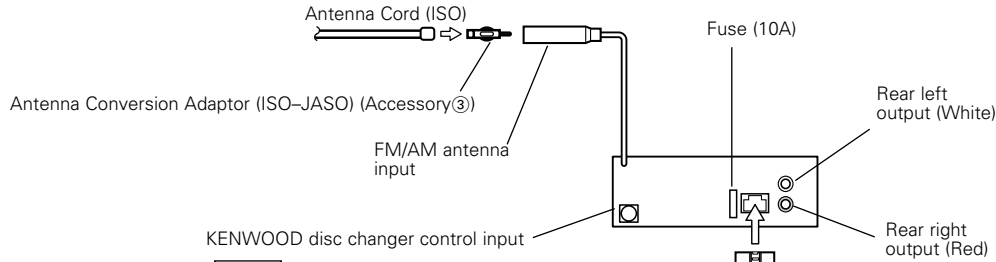
The use of any accessories except for those provided might result in damage to the unit. Make sure only to use the accessories shipped with the unit, as shown above.

Installation Procedure

1. To prevent short circuits, remove the key from the ignition and disconnect the ⊖ terminal of the battery.
2. Make the proper input and output cable connections for each unit.
3. Connect the cable on the wiring harness.
4. Take Connector B on the wiring harness and connect it to the speaker connector in your vehicle.
5. Take Connector A on the wiring harness and connect it to the external power connector on your vehicle.
6. Connect the wiring harness connector to the unit.
7. Install the unit in your car.
8. Reconnect the ⊖ terminal of the battery.
9. Press the reset button.

▲CAUTION

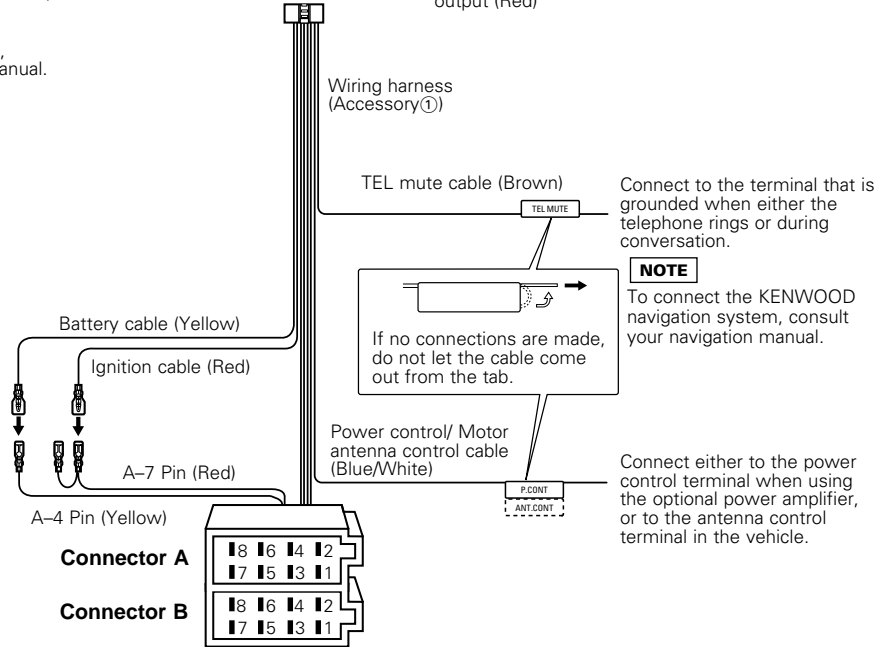
- If your car is not prepared for this special connection-system, consult your Kenwood dealer.
- Only use antenna conversion adapters (ISO-JASO) when the antenna cord has an ISO plug.
- Make sure that all cable connections are securely made by inserting jacks until they lock completely.
- If your vehicle's ignition does not have an ACC position, or if the ignition cable is connected to a power source with constant voltage such as a battery cable, the power will not be linked with the ignition (i.e., it will not turn on and off along with the ignition). If you want to link the unit's power with the ignition, connect the ignition cable to a power source that can be turned on and off with the ignition key.
- If the fuse blows, first make sure that the cables have not caused a short circuit, then replace the old fuse with one with the same rating.
- Do not let unconnected cables or terminals touch metal on the car or anything else conducting electricity. To prevent short circuits, also do not remove the caps on the ends of the unconnected cables or the terminals.
- Connect the speaker cables correctly to the terminals to which they correspond. The unit may receive damage or fail to work if you share the ⊖ cables and/or ground them to any metal part in the car.
- After the unit is installed, check whether the brake lamps, indicators, wipers, etc. on the car are working properly.
- Insulate unconnected cables with vinyl tape or other similar material.
- Some disc changers need conversion cables for connection. See the section on "Safety Precautions" for details.
- If the console has a lid, make sure to install the unit so that the faceplate does not hit the lid when closing and opening.
- Mount the unit so that the mounting angle is 30° or less.



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

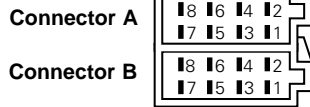
Connector Function Guide

Pin Numbers for ISO Connectors	Cable Colour	Functions
External Power Connector		
A-4	Yellow	Battery
A-5	Blue/White	Power Control
A-7	Red	Ignition (ACC)
A-8	Black	Earth (Ground) Connection
Speaker Connector		
B-1	Purple	Rear Right (+)
B-2	Purple/Black	Rear Right (-)
B-3	Gray	Front Right (+)
B-4	Gray/Black	Front Right (-)
B-5	White	Front Left (+)
B-6	White/Black	Front Left (-)
B-7	Green	Rear Left (+)
B-8	Green/Black	Rear Left (-)



NOTE
To connect the KENWOOD navigation system, consult your navigation manual.

Connect either to the power control terminal when using the optional power amplifier, or to the antenna control terminal in the vehicle.



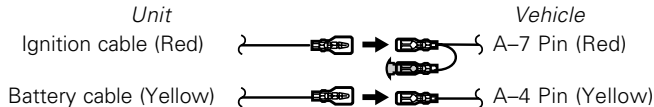
Connecting Cables to Terminals

⚠ WARNING Connecting the ISO Connector (see p.28)

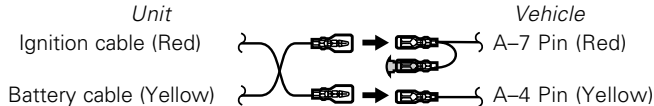
The pin arrangement for the ISO connectors depends on the type of vehicle you drive. Make sure to make the proper connections to prevent damage to the unit.

The default connection for the wiring harness is described in **1** below. If the ISO connector pins are set as described in **2** or **3**, make the connection as illustrated.

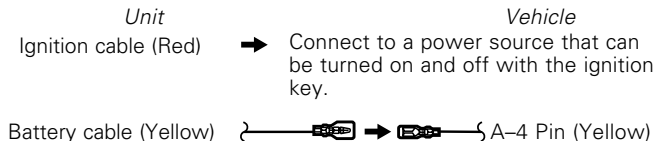
- 1** (Default setting) The A-7 pin (red) of the vehicle's ISO connector is linked with the ignition, and the A-4 pin (yellow) is connected to the constant power supply.



- 2** The A-7 pin (red) of the vehicle's ISO connector is connected to the constant power supply, and the A-4 pin (yellow) is linked to the ignition.

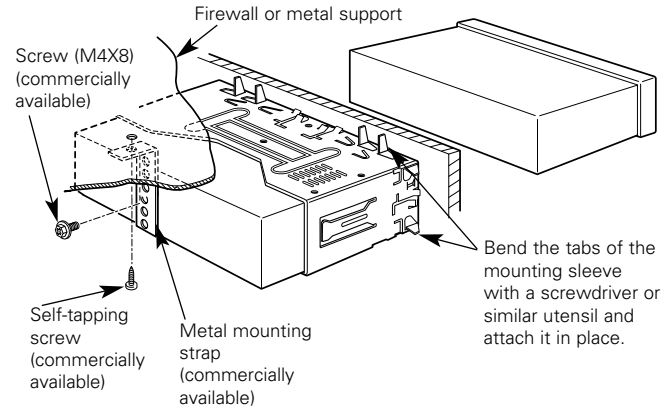


- 3** The A-7 pin (red) of the vehicle's ISO connector is not connected to anything, whilst the A-4 pin (yellow) is connected to the constant power supply (or both the A-7 (red) and A-4 (yellow) pins are connected to the constant power supply).



Installation

■ Installation



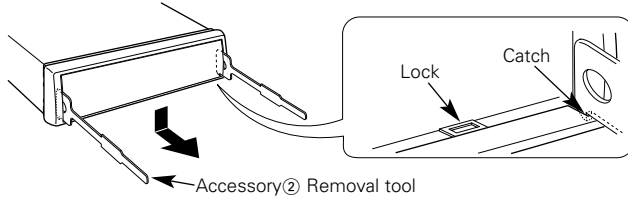
NOTE

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

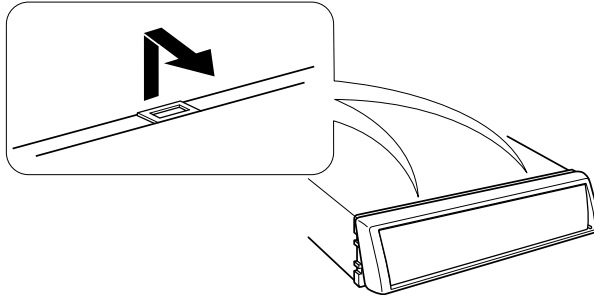
Installation

■ 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.

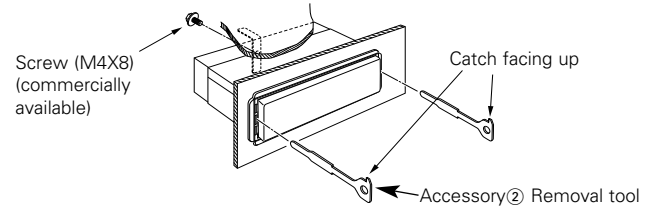


NOTE

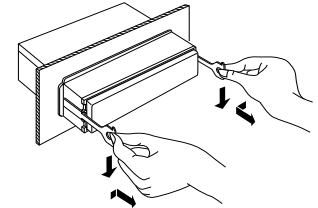
The frame can be removed from the top side in the same manner.

■ Removing the Unit

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



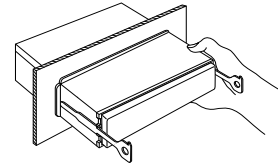
- 4 Lower the removal tool toward the bottom, and pull out the unit halfway whilst pressing towards the inside.



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.



Troubleshooting Guide

What might appear 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 cables, replace the fuse with one having the same rating.
	No ACC position on vehicle ignition.	Connect the same cable to the ignition as the battery cable.
No sound can be heard, or the volume is low.	The Attenuator function is turned on.	Turn off the Attenuator function.
	The fader and/or balance settings are set all the way to one side.	Reset the fader and/or balance settings.
	The input/output cables or wiring harness are connected incorrectly.	Reconnect the input/output cables and/or the wiring harness correctly. See the section on "Connecting Cables to Terminals".
	The value of "V OFFSET" is low.	Increase the value of "V OFFSET".
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 page 4).
The sound quality is poor or distorted.	A speaker cable may be pinched by a screw in the car.	Check the speaker wiring.
	The speakers are not wired correctly.	Reconnect the speaker cables so that each output terminal is connected to a different speaker.
Radio reception is poor.	The car antenna is not extended.	Pull out the antenna all the way.
	The antenna control cable is not connected.	Connect the cable correctly, referring to the section on "Connecting Cables to Terminals".
The memory is erased when the ignition is turned off.	The battery cable has not been connected to the proper terminal.	Connect the cable correctly, referring to the section on "Connecting Cables to Terminals".
	The ignition and battery cable are incorrectly connected.	Connect the cable correctly, referring to the section on "Connecting Cables to Terminals".
The TEL mute function does not work.	The TEL mute cable is not connected properly.	Connect the cable correctly, referring to the section on "Connecting Cables to Terminals".
The TEL mute function turns on even though the TEL mute cable is not connected.	The TEL mute cable is touching a metal part of the car.	Pull the TEL mute cable away from the metal part of the car.

MD/External disc control mode


PROBLEM	POSSIBLE CAUSE	SOLUTION
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.	Replace the MD with one that is recorded.
The sound skips.	The mounting angle exceeds 30°.	Adjust to an angle of less than 30°.
	The mounting is unstable.	Fix the unit securely. When the sound skips at the same portion even when the car is stopped, the problem lies with the MD.
There is noise 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.
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 very dirty.	Clean the CD.
	The CD is upside-down.	Load the CD with the labelled side up.
	The disc is loaded in a different slot from that specified.	Eject the disc magazine and check the number for the specified disc.
	The disc is severely scratched.	Try another disc instead.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The sound skips.	Something is touching the disc changer.	Remove whatever is touching it.
	The CD is scratched or dirty.	If skipping happens at the same place when the car is stopped, something is wrong with the CD. 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 page 4).
The specified track does not play.	Random play or magazine random play has been selected.	Turn off the random play or magazine random play function.
Track repeat, disc repeat, track scan, random play, and magazine random play start by themselves.	The setting is not canceled.	The settings for these functions remain on until the setting to off or the disc ejected, even if the power is turned off or the source changed.
Cannot play CD-R or CD-RW	Finalization processing is not being conducted for CD-R/CD-RW.	Conduct finalization processing with CD recorder.
	A non-compatible CD changer is being used to play the CD-R/CD-RW.	Use a CD changer compatible with CD-R/CD-RW to play.
Can't remove disc.	The cause is that more than 10 minutes has elapsed since the vehicle ACC switch was turned OFF.	The disc can only be removed within 10 minutes of the ACC switch being turned OFF. If more than 10 minutes has elapsed, turn the ACC switch ON again and press the Eject button.
"AUX" is displayed without achieving External disc control mode.	O-N switch is set to "O" side.	Set the switch to "N" side.
	Unsupported disc changer is connected.	Connect the supported disc changer. (see page 3)

If the following situations, consult your nearest service centre:

- 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-CPS87, KDC-CX87, KDC-CPS85, KDC-CX85, 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 very 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.
- NO TRACK No tracks are recorded on the MD, although it has a title.
- NO PANEL 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 centre.
- 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.
- HOLD The protective circuit in the unit activates when the temperature inside the automatic disc changer exceeds 60°C (140°F), stopping all operation.
⇒ Cool down the unit by opening the windows or turning on the air conditioner. As the temperature falls below 60°C (140°F), the disc starts playing again.
-  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 centre.

Specifications

Specifications subject to change without notice.

FM tuner section

Frequency range (50 kHz Space)	87.5 MHz – 108.0 MHz
Usable sensitivity (S/N = 26dB)	0.7 μ V/75 Ω
Quieting Sensitivity (S/N = 46dB)	1.6 μ V/75 Ω
Frequency response (\pm 3.0 dB)	30 Hz – 15 kHz
Signal to Noise ratio (MONO)	65 dB
Selectivity (DIN) (\pm 400 kHz)	\geq 80 dB
Stereo separation (1 kHz)	35 dB

MW tuner section

Frequency range (9 kHz Space)	531 kHz – 1611 kHz
Usable sensitivity (S/N = 20dB)	25 μ V

LW tuner section

Frequency range	153 kHz – 281 kHz
Usable sensitivity (S/N = 20dB)	45 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)	0.03 %
Signal to Noise ratio	90 dB (1 kHz)
Dynamic range	90 dB
Channel separation	85 dB
Spindle speed	400 – 900 rpm
Wow & Flutter	Below Measurable Limit

Audio section

Maximum output power	45 W \times 4
Output power (DIN 45324, +B=14.4 V)	28 W \times 4
Tone action	
Bass:	100 Hz \pm 10 dB
Middle:	1 Hz \pm 10 dB
Treble:	12.5 kHz \pm 10 dB
Preout level / load	1800 mV / 10 k Ω (MD/CD)
Preout Impedance	\leq 600 Ω

General

Operating voltage	14.4 V (11 – 16 V allowable)
Current consumption	10 A
Installation size (W \times H \times D)	182 \times 53 \times 160 mm
Weight	1300 g

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