

# KENWOOD

**KRC-269**

**KRC-269S**

CASSETTE RECEIVER

## **INSTRUCTION MANUAL**

KENWOOD CORPORATION

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## Safety precautions

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### **▲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<sup>2</sup> (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**

**About CD players/disc changers connected to this unit:**

KENWOOD disc changers/ CD players released in 1998 or later can be connected to this unit.

Refer to the catalog for connectable models of disc changers/ CD players.

Note that any KENWOOD disc changers/ CD players released in 1997 or earlier and disc changers made by other makers cannot be connected to this unit.

Unsupported connection may result in break or failure.

Setting the "O-N Switch" to the "N" position for the applicable KENWOOD disc changers/ CD players.

The functions that can be used and the information that can be displayed will differ depending on the models being connected.

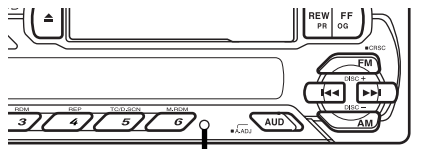


You can damage both your unit and the CD changer if you connect them incorrectly.

## 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.
- Press the reset button if the Disc auto changer fails to operate correctly. Normal operation should be resolved.



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.

### 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.



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 erase characters.

## About Cassette tape

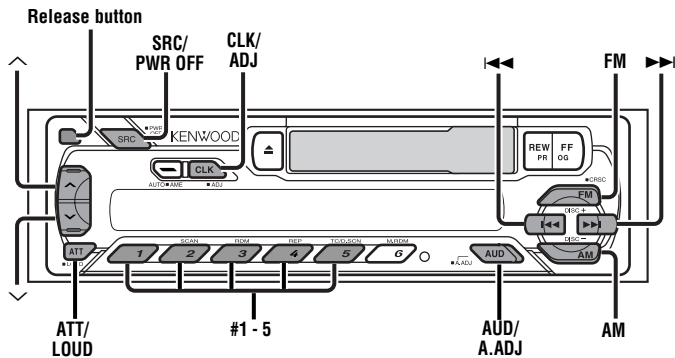
### Cleaning the tape head

When there's noise or the sound quality is bad during tape play the tape head maybe dirty, clean the tape head.

### About Cassette tape

- If the tape is slack tighten it.
- If the cassette tape label is peeling off glue it on again.
- Don't use deformed cassette tape.
- Don't place cassette tape on the dashboard etc. where the temperature is high.
- Don't use cassette tape that's 100 minutes long or longer.

## General features



### Power

#### Turning ON the Power

Press the [SRC] button.

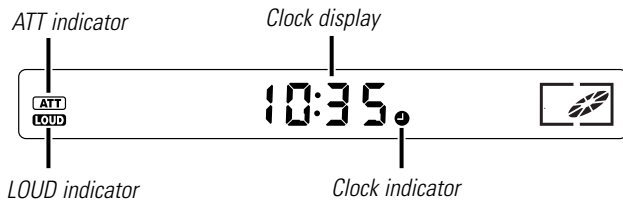
#### Turning OFF the Power

Press the [PWR OFF] button for at least 1 second.

### Selecting the Source

Press the [SRC] button.

Source required	Display
Tuner	"TUnE"
Tape	"TAPE"
External disc	"DISC"
Standby (Illumination only mode)	"OFF"



## General features

### Volume

#### Increasing Volume

Press the [ $\wedge$ ] button.

#### Decreasing Volume

Press the [ $\vee$ ] button.

### Attenuator

Turning the volume down quickly.

Press the [ATT] button.

Each time the button is pressed the Attenuator turns ON or OFF. When it's ON, the "ATT" indicator blinks.

### Loudness

Compensating for low and high tones during low volume.

Press the [LOUD] button for at least 1 second.

Each time the button is pressed for at least 1 second the Loudness turns ON or OFF.

When it's ON, "LOUD" indicator is ON.

### dB (Sound Coordinate)

You can recall the best sound setting preset for different types of the music.

#### 1 Select the source to set

Press the [SRC] button.

#### 2 Enter Control mode

Press the [AUD] button.

#### 3 Select the Sound type

Press the [#1] — [#5] button.

Press button	Sound setting	Display
[#1]	Flat	"DB-1"
[#2]	Rock	"DB-2"
[#3]	Pops/ Top40	"DB-3"
[#4]	Jazz	"DB-4"
[#5]	Easy	"DB-5"



When the dB(Sound Coordinate) setting is changed, the Bass and Treble set in audio control replace the dB(Sound Coordinate) values.

#### 4 Exit Control mode

Press the [AUD] button.

### Audio Control

#### 1 Select the source for adjustment

Press the [SRC] button.

#### 2 Enter Audio Control mode

Press the [A.ADJ] button for at least 1 second.

#### 3 Select the Audio item for adjustment

Press the [FM] or [AM] button.

Each time the button is pressed the items that can be adjusted switch as shown below.

#### 4 Adjust the Audio item

Press the [◀◀] or [▶▶] button.

Adjustment Item	Display	Range
Bass level	"BAS"	-4 — 4
Treble level	"TRE"	-4 — 4
Balance	"BL"	L15 — R15
Fader	"FD"	R15 — F15

## 5 Exit Audio Control mode

Press the [A.ADJ] button.

## Switching Clock Display

Switching the displayed information.

Press the [CLK] button.

Each time the button is pressed it switches between clock display and current display source.

During clock display the clock indicator is ON.

## Adjusting Clock

### 1 Select the clock display

Press the [CLK] button.

### 2 Enter clock adjustment mode

Press the [CLK] button for at least 2 seconds.

The clock display blinks.

### 3 Adjust the hours

Press the [FM] or [AM] button.

#### Adjust the minutes

Press the [◀◀] or [▶▶] button.

### 4 Exit clock adjustment mode

Press the [CLK] button.

## Theft Deterrent Faceplate

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

### Removing the Faceplate

Press the Release button.

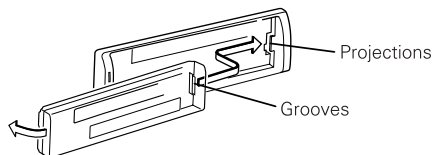
The faceplate is unlocked, allowing you to detach it.



- 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 the Faceplate

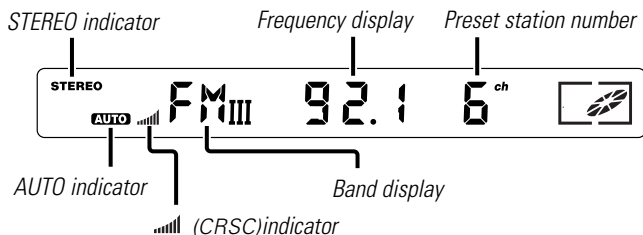
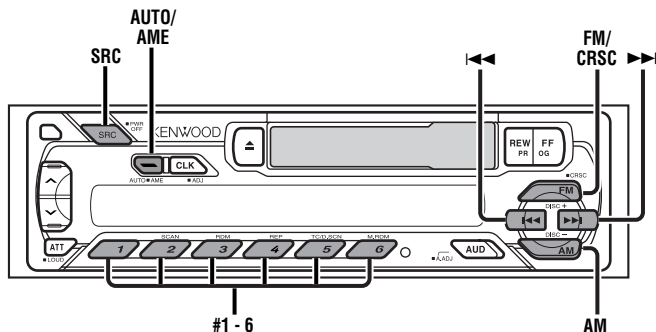
- 1 Align the projections on the unit with the grooves on the faceplate.



- 2 Push the faceplate in until it clicks.

The faceplate is locked in place, allowing you to use the unit.

## Tuner features



### Tuning Mode

Choose the tuning mode.

Press the [AUTO] button.

Each time the button is pressed the Tuning mode switches as shown below.

Tuning mode	Display	Operation
Auto seek	"AUTO" indicator	Automatic search for a station.
Manual	—	Normal manual tuning control.

### Tuning

Selecting the station.

#### 1 Select tuner source

Press the [SRC] button.  
Select the "TUnE" display.

#### 2 Select the band

Press the [FM] or [AM] button.  
Each time the [FM] button is pressed it switches between the FM1, FM2, and FM3 bands.

#### 3 Tune up or down the band

Press the [◀◀] or [▶▶] button.



During reception of stereo stations the "STEREO" indicator is ON.

## Station Preset Memory

Putting the station in the memory.

### 1 Select the band

Press the [FM] or [AM] button.

### 2 Select the frequency to put in the memory

Press the [◀◀] or [▶▶] button.

### 3 Put the frequency in the memory

Press the [#1] — [#6] button for at least 2 seconds.

The preset number display blinks 1 time.

On each band, 1 station can be put in the memory on each [#1] — [#6] button.

## Auto Memory Entry

Putting stations with good reception in the memory automatically.

### 1 Select the band for Auto Memory Entry

Press the [FM] or [AM] button.

### 2 Open Auto Memory Entry

Press the [AME] button for at least 2 seconds.

When 6 stations that can be received are put in the memory Auto Memory Entry closes.

## Preset Tuning

Calling up the stations in the memory.

### 1 Select the band

Press the [FM] or [AM] button.

### 2 Call up the station

Press the [#1] — [#6] button.

## CRSC (Clean Reception System Circuit)

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

Press the [CRSC] button for at least 1 second.

Each time the button is pressed CRSC turns ON or OFF.

When it's ON, the "  "(CRSC) indicator is ON.

## Frequency Step Setting

Changing the tuning frequency step.

The original setting is FM band 50 kHz, and AM band 9 kHz.

### 1 Turn the power OFF

Press the [SRC] button for at least 1 second.

### 2 Switch the frequency step

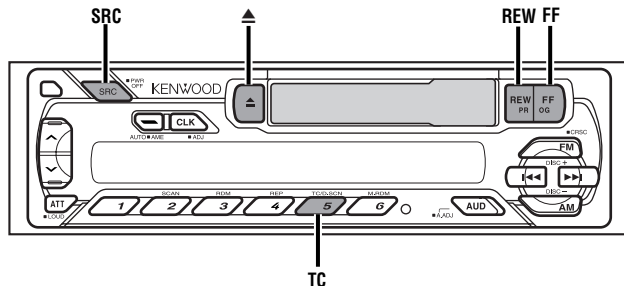
While pressing the [#1] and [#5] button, press the [SRC] button.

The frequency step changes to FM band 200 kHz, and AM band 10 kHz.



- When the same operation is repeated, it returns to the original setting.
- When the frequency step is switched, the frequencies in the memory are deleted.

## Cassette player features



### Playing Cassette Tapes

#### **When the Cassette Tape is inserted**

Press the [SRC] button.  
Select the "TAPE" display.

#### **When you want to listen to the reverse side**

Press the [REW] and [FF] button at the same time.

#### **Eject the Cassette Tape**

Press the [▲] button.

### Fast Forwarding and Rewinding

#### **Fast Forwarding**

Press the [FF] button.  
If it's stopped press [REW] button.


#### **Rewinding**

Press the [REW] button.  
If it's stopped press the [FF] button.

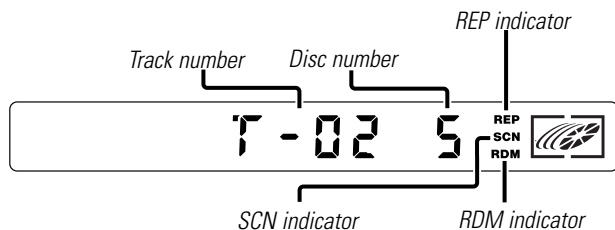
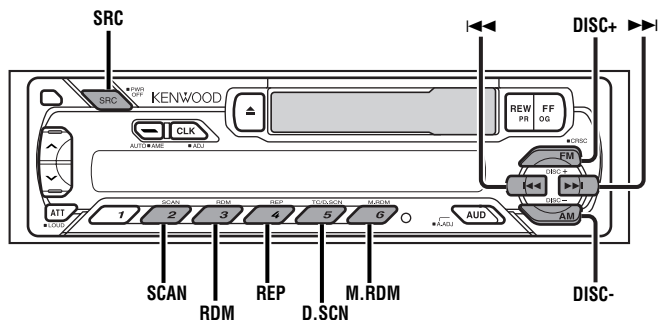
### Tuner Call

Switching to the radio automatically during Fast Forwarding and Rewinding.

Press the [TC] button.  
Each time the button is pressed the Tuner Call turns ON or OFF.  
When it's ON, the "T.CALL" indicator is ON.

 When you turn ON the Tuner Call function, the motorized antenna will extend automatically.

## External disc control features



### Playing External Disc

Playing discs set in the optional accessory disc player connected to this unit.

Press the [SRC] button.

Select the display for the disc player you want.

Display examples:

Display	Disc player
"DISC"	CD player
	CD changer/ MD changer

- Disc #10 is displayed as "0".
- The functions that can be used and the information that can be displayed will differ depending on the external disc players being connected.

### Fast Forwarding and Reversing

#### Fast Forwarding

Hold down on the [▶▶] button.

Release your finger to play the disc at that point.

#### Reversing

Hold down on the [◀◀] button.

Release your finger to play the disc at that point.

## External disc control features

### Track Search

Selecting the song you want to hear.

Press the [◀◀] or [▶▶] button.

### Album Search (Function of disc changer)

Selecting the disc you want to hear.

Press the [DISC-] or [DISC+] button.

### Track/Album Repeat

Replaying the song/disc you're listening to.

Press the [REP] button.

Each time the button is pressed the Repeat Play switches as shown below.

Repeat play	Display
Track Repeat	"REP" indicator is ON & Track No. blinks.
Album Repeat	"REP" indicator is ON & Disc No. blinks. (Function of disc changer)
Repeat OFF	—

### Track Scan

Playing the first part of each song on the disc you are listening to and searching for the song you want to listen to.

#### 1 Start Track Scan

Press the [SCAN] button.

"SCN" indicator is ON.

#### 2 Release it when the song you want to listen to is played

Press the [SCAN] button.

### Disc Scan (Function of disc changer)

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

#### 1 Start Disc Scan

Press the [D.SCN] button.

The disc number blinks.

#### 2 Release it when the disc you want to listen to is played

Press the [D.SCN] button.

### Random Play

Playing all the songs on the disc in random order.

Press the [RDM] button.

Each time the button is pressed Random Play turns ON or OFF. When it's ON, the "RDM" indicator is ON and the track number blinks.



When the [▶▶] button is pressed, the next song select starts.

## Magazine Random Play (Function of disc changer)

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

Press the [M.RDM] button.

Each time the button is pressed the Magazine Random Play turns ON or OFF.

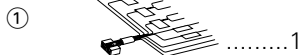
When it's ON, the "RDM" indicator is ON and the track and disc number blink.

 When the  button is pressed, the next song select starts.

## Accessories

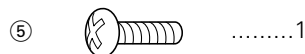
### External view


..... Number of items



### External view

..... Number of items



 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  $\ominus$  battery.
2. Make the proper input and output wire connections for each unit.
3. Connect the speaker wires of the wiring harness.
4. Connect the wiring harness wires in the following order: ground, battery, ignition.
5. Connect the wiring harness connector to the unit.
6. Install the unit in your car.
7. Reconnect the  $\ominus$  battery.
8. Press the reset button.

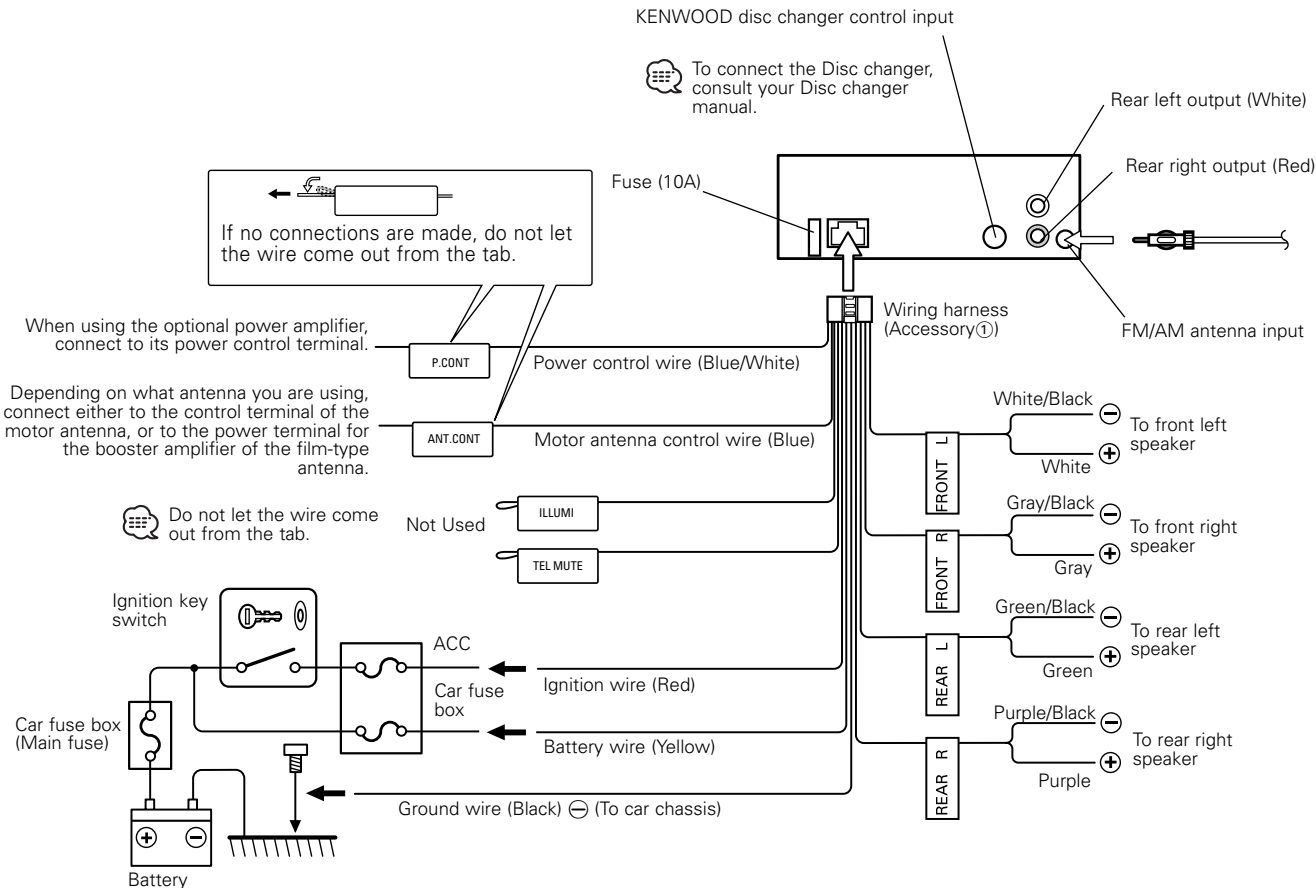
### ▲WARNING

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

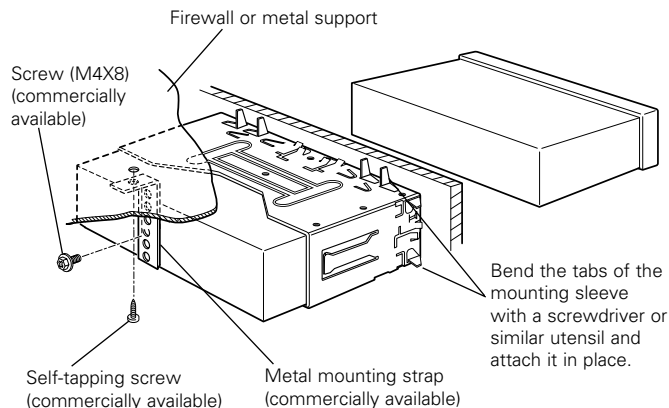
- If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, as with battery wires, the battery may die.
- If the console has 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.
- Insulate unconnected wires with vinyl tape or other similar material. 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  $\ominus$  wires or ground them to any metal part in the car.
- 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  $\oplus$  connector of the left speaker to a front output terminal, do not connect the  $\ominus$  connector to a rear output terminal.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.


# Connecting Wires to Terminals



## Installation

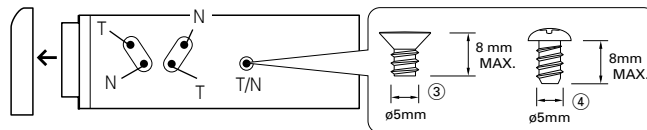
### ■ Installation




 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

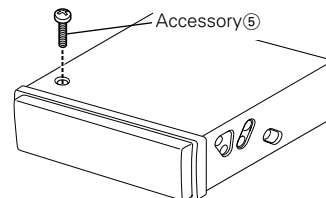
- 1 Refer to the section "Removing the hard rubber frame" (page 17) and then remove the hard rubber frame.
- 2 Align the holes in the unit (two locations on each side) with the vehicle mounting bracket and secure the unit with the accessory screws.




-  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.

### ■ Screwing the Faceplate on the Unit

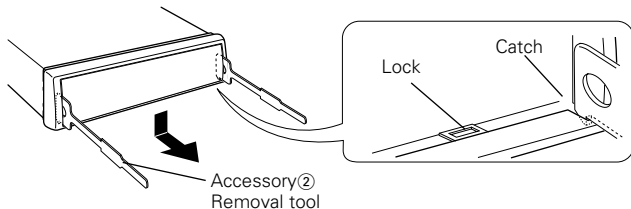
If you want to fasten the faceplate to the main unit so that it does not fall off, screw in the provided screw (ø4 X 16 mm) in the hole shown below.



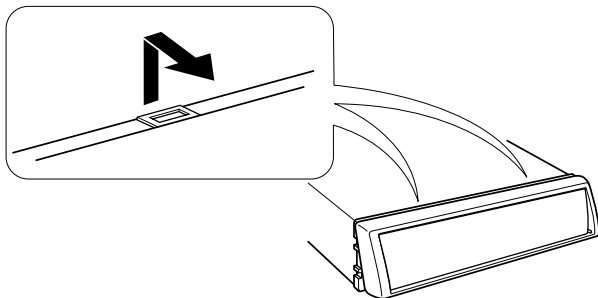
-  Never insert the tapite screw (ø4 × 16 mm) in any other screw hole than the one specified. If you screw it in another hole, it will contact and may cause damage to the mechanical parts inside the unit.

## ■ 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.



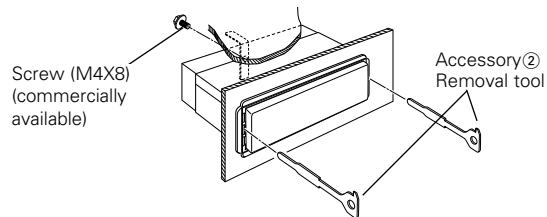
- 2 When the lower level is removed, remove the upper two locations.




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

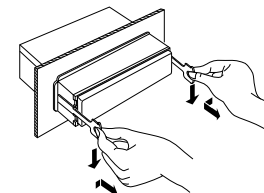
## ■ Removing the Unit

- 1 Refer to the section “Removing the hard rubber frame” and then remove the hard rubber frame.
- 2 Remove the screw (M4 × 8) on the back panel.
- 3 Insert the two removal tools deeply into the slots on each side, as shown.

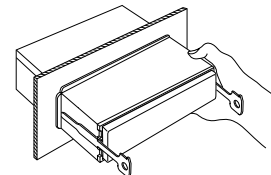


- 4 Lower the removal tool toward the bottom, and pull out the unit halfway while pressing towards the inside.

 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 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.

### General

#### ? 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 ACC position on vehicle ignition.
  - ☞ Connect the same cable to the ignition as the battery cable.

#### ? Nothing happens when the buttons are pressed.

- ✓ The computer chip in the unit is not functioning normally.
  - ☞ Press the reset button on the unit (page 4).

#### ? There's a source you can't switch.

- ✓ There's no tape inserted.
  - ☞ Set the media you want to listen to. If there's no media in this unit, you can't switch to each source.

#### ? There's a source you can't switch.

- ✓ The Disc changer isn't connected.
  - ☞ Connect the Disc changer. If the Disc changer isn't connected to its input terminal, You can't switch to an external disc source.

#### ? The faceplate does not open or close.

- ✓ The faceplate is incorrectly attached.
  - ☞ Reattach the faceplate correctly, See the section on <Removing the Faceplate>(page 7).

#### ? 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>.

#### ? Even if Loudness is turned ON, high-pitched tone isn't compensated for.

- ✓ Tuner source is selected.
  - ☞ High-pitched tone isn't compensated for when in Tuner source.

#### ? No sound can be heard, or the volume is low.

- ✓ The fader or balance settings are set all the way to one side.
  - ☞ Center the fader and balance settings.
- ✓ The input/output wires or wiring harness are connected incorrectly.
  - ☞ Reconnect the input/output wires or the wiring harness correctly. See the section on "Connecting Wires to Terminals".
- ✓ The cassette tape is bad.
  - ☞ Try playing another cassette tape. If works fine, the first tape was bad.

#### ? 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 tape head is dirty.
  - ☞ Clean the tape head.
- ✓ The speakers are not wired correctly.
  - ☞ Reconnect the speaker wires so that each output terminal is connected to a different speaker.

#### ? The Touch Sensor Tone doesn't sound.

- ✓ The preout jack is being used.
  - ☞ The Touch Sensor Tone can't be output from the preout jack.

## Tuner source

### ? 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>.
- 

## Disc source

### ? "AVin" 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. (page 3)
- 

### ? The specified disc does not play, but another one plays instead.

- ✓ The specified CD is quite dirty.
    - ☞ Clean the CD.
  - ✓ The CD is upside-down.
    - ☞ Load the CD with the labeled side up.
  - ✓ The disc is loaded in a different slot from that specified.
    - ☞ Eject the disc magazine and check the number for the specified disc.
  - ✓ The disc is severely scratched.
    - ☞ Try another disc instead.
- 

### ? The specified track will not play.

- ✓ Random play or magazine random play has been selected.
    - ☞ Turn off random play or magazine random play.
- 

### ? 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.
- 

### ? Track Search can't be done.

- ✓ For the albums first or last song.
    - ☞ For each album, Track Search can't be done in the backward direction for the first song or in the forward direction for the last song.
- 

## If the following situations, consult your nearest service center:

- Even though the disc changer is connected, the Disc Changer source is not ON, with "AVin" showing in the display during the Changer Mode.
- Even though no device (CA-C1AX) is connected, the Auxiliary input is entered when switching modes.

## Troubleshooting Guide

### The messages shown below display your systems condition.

E-01: No disc magazine has been loaded in the changer.  
The disc magazine is not completely loaded.  
⇨ Load the disc magazine properly.

E-02: 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.

E-10: Nothing has been recorded on the MD.

E-11: No tracks are recorded on the MD, although it has a title.

E-30: 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: The unit is malfunctioning for some reason.  
⇨ Press the reset button on the unit. If the "E-99" code does not disappear, consult your nearest service center.

E-0d: 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.

LOAD: Discs are being exchanged in the Disc changer.

◀ ▶ (Blink): The tape player section is not operating properly.  
⇨ Reinsert the Tape. If the tape cannot be ejected or the display continues to flash even when the tape has been properly reinserted, please switch off the power and consult your nearest service center.

## ***Specifications***

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### **Specifications subject to change without notice.**

#### ***FM tuner section***

Frequency range (50 kHz space) .....	87.5 MHz – 108.0 MHz
(200 kHz space) .....	87.9 MHz – 107.9 MHz
Usable sensitivity (S/N = 30dB) .....	9.3 dBf (0.8 $\mu$ V/75 $\Omega$ )
Quieting Sensitivity (S/N = 50dB) .....	15.2 dBf (1.6 $\mu$ V/75 $\Omega$ )
Frequency response ( $\pm$ 3.0 dB) .....	30 Hz – 15 kHz
Signal to Noise ratio (MONO) .....	70 dB
Selectivity ( $\pm$ 400 kHz) .....	$\geq$ 80 dB
Stereo separation (1 kHz) .....	40 dB

#### ***AM tuner section***

Frequency range (9 kHz space) .....	531 kHz – 1611 kHz
(10 kHz space) .....	530 kHz – 1700 kHz
Usable sensitivity (S/N = 20dB) .....	28 dB $\mu$ (25 $\mu$ V)

#### ***Cassette player section***

Tape Speed .....	4.76 cm/sec.
Wow & Flutter (WRMS) .....	0.12 %
Frequency response ( $\pm$ 3.0 dB) (120 $\mu$ s) .....	30 Hz – 14 kHz
Separation (1 kHz) .....	40 dB
Signal to Noise ratio .....	52 dB

#### ***Audio section***

Maximum output power .....	45 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 .....	2000 mV / 10 k $\Omega$
Preout impedance .....	$\leq$ 600 $\Omega$

#### ***General***

Operating voltage (11 – 16V allowable) .....	14.4 V
Current consumption .....	10 A
Installation Size (W x H x D) .....	182 x 53 x 158 mm
Weight .....	1.3 kg

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