KENWOOD

CD-RECEIVER

KDC-MP533V

INSTRUCTION MANUAL

Kenwood Corporation

COMPACT
disc
DIGITAL AUDIO

COMPACT
disc
DIGITAL VIDEO

Designed for
Windows
Media™

Contents

Safety precautions

⚠WARNING

To prevent injury or fire, take the following precautions:
- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- Mounting and wiring this product requires skills and experience. For safety's sake, leave the mounting and wiring work to professionals.

Attach the panel while you are on the vehicle
The panel lock arm appears when the panel is removed. Therefore, the panel must be attached while the electrical system of the car is operating.

⚠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 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 place the faceplate (and 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 fuse with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
- Do not apply excessive force to the open faceplate or place objects on it. Doing so will cause damage or breakdown.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.

Do Not Load 8 cm (3 in.) CDs in the CD slot
If you try to load a 8 cm (3 in.) CD with its adapter into the unit, the adapter might separate from the CD and damage the unit.

Lens Fogging
When you turn on the car heater in cold weather, dew or condensation may form on the lens in the CD player of the unit. Called lens fogging, this condensation on the lens may not allow CDs to play. In such a situation, remove the disc and wait for the condensation to evaporate. If the unit still does not operate normally after a while, consult your Kenwood dealer.

- If you experience problems during installation, consult your Kenwood dealer.
- When you purchase optional accessories, check with your Kenwood dealer to make sure that they work with your model and in your area.
- If the unit fails to operate properly, press the Reset button. The unit returns to factory settings when the Reset button is pressed.
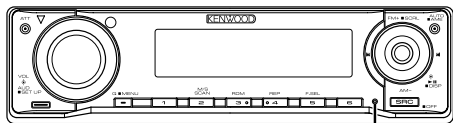
Reset button

- The characters which can be displayed by this unit are A-Z 0-9 @ " ' ` % & * + – = , . / \ < > [ ] ( ) : ; ^ - { } | ~ .
- Video CD images are displayed on the monitor unit (an optional accessory) connected to the system.
  No Video CD image is displayed if the parking brake is released.
  Before watching the Video CD images, park your car in a safety place and apply the parking brake.
- 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 be inapplicable.

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 it again with a clean soft dry cloth.

⚠

- 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.

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

**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. This means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

About CDs

Handling CDs
- Do not touch the recording surface of the CD.
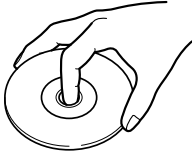
- CD-R and CD-RW are easier to damage than a normal music CD. Use a CD-R or a CD-RW after reading the caution items on the package etc.
- Do not stick tape etc. on the CD, or use a CD with tape stuck on it.

When using a new CD
If the CD center hole or outside rim has burrs, use the CD only after removing the burrs with a ballpoint pen, etc.

Burrs

Burrs
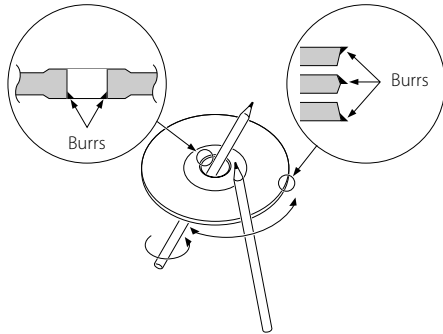
CD accessories
Do not use disc type accessories.

CD cleaning
Clean from the center of the disc and move outward.
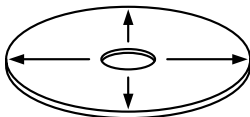
Removing CDs
When removing CDs from this unit, pull them out horizontally.

CDs that cannot be used
- CDs that are not round cannot be used.
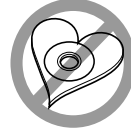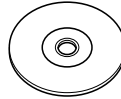
- CDs with coloring on the recording surface or CDs that are dirty cannot be used.
- This unit can only play the CDs with

This unit may not correctly play discs which do not have the mark.
- You cannot play a CD-R or CD-RW that has not been finalized. (For the finalization process refer to your CD-R/CD-RW writing software, and your CD-R/CD-RW recorder instruction manual.)

CD storage
- Do not place CDs in direct sunlight (On the seat or dashboard etc.) or where the temperature is high.
- Store CDs in their cases.

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About MP3 and WMA

The playable MP3/WMA file (hereafter called Audio file) and the media format has the following limitation. The Audio file, which is not conforming to the specification, may not play normally, or the file and folder names may not display correctly.

Playable Audio file
• MP3, WMA

⚠️

• Attach the correct extension for the Audio file (MP3: ".MP3", WMA: ".WMA")
• Do not attach the extensions to files other than the Audio file. If the extension is attached, the file, which is not the Audio file, will play and outputs a loud noise, causing damage to the speaker.
• The files with copy protection cannot be played.
• The settings of your encoding software and the environment in which it is used may now allow you to play or view specific Audio files.
• The unit may not be compatible with upgrade of compression format standard and additional specifications.

Playable MP3 file
• MPEG 1/2 Audio Layer 3 file
• Transfer bit rate: 8-320 kbps
• Sampling frequency
  : 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48 kHz

Playable WMA file
• The file in accordance with Windows Media Audio (Except for the file for Windows Media Player 9 or after which applies the new functions)
• Transfer bit rate: 48-192 kbps
• Sampling frequency: 32, 44.1, 48 kHz

Playable media
• CD-ROM, CD-R, CD-RW

💬

• CD-RW discs which are quick formatted by the writing software cannot be used.
• When recording to the maximum media capacity at once, the writing software is set to "Disc at once".

Playable disc format
• ISO 9660 Level 1/2
• Joliet
• Romeo
• Long file name.

The maximum number of characters for display
File/Folder name: 64 (Joliet: 32) characters
MP3 ID3 Tag/ WMA Contents property
: 30 characters

💬

• File/Folder name is the number of the characters including the extensions.
• MP3 ID3 Tag can only display the tag of Ver1.0/ 1.1.

Limitation of structure for the file and the folder
• Maximum number of directory levels: 8
• Maximum number of folders: 50
• Maximum number of files per folder: 255
• Maximum number of files and folders: 512

Playing order of the Audio file
The Audio file plays in the order which is written by writing software. You may be able to set the playing order by writing the play sequence numbers such as "01" to "99" at the beginning of the file name.

Example
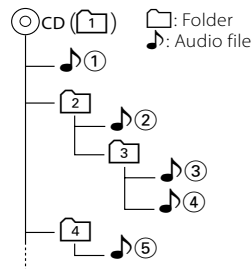
• **Playing order**
  Playing order after ♪① play.
  ➡ ♪②, ♪③, ♪④, ♪⑤...
• **File search**
  Forward file search during ♪③ play.
  Push the Control knob towards [▶▶|] ➡ ♪④
• **Folder search**
  Forward folder search during ♪② play.
  Push the Control knob towards [FM] ➡ [3], [4]...
• **Folder select**
  When the selection is set to directory [4], and you want to skip to the folder [2] at the same level.
  Push the Control knob towards [|◀◀] ➡ [2]
  When the selection is set to directory [3], moves the level up by folder select.
  Push the Control knob towards [AM] ➡ [2]

ATT

VOL

Release button

Q

Control knob

SRC

Clock display

LOUD indicator

ATT indicator
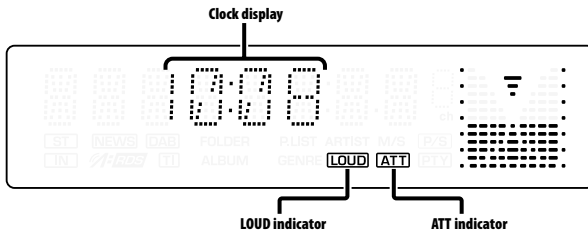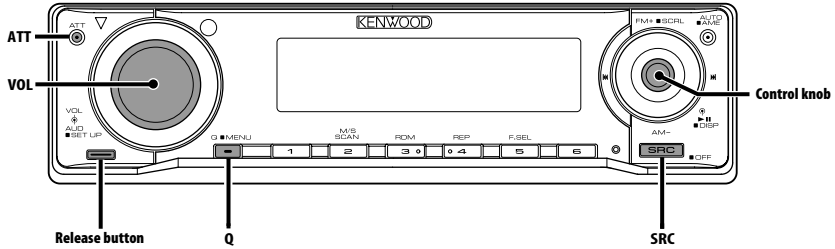
Power

Turning ON the Power
Press the [SRC] button.

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

Selecting the Source

Press the [SRC] button.

Source required	Display
Tuner	"TUNER"
CD/VCD	"CD"
Auxiliary input*	"AUX"
Standby (Illumination only mode)	"STANDBY"

⁂

- * You can select this source when <Built-in Auxiliary Input Setting> (page 18) is set to "ON".
- A disc containing Video CD files can also be played back. The Video CD is called the VCD in this manual.

Volume

Increasing Volume
Turn the [VOL] knob clockwise.

Decreasing Volume
Turn the [VOL] knob counterclockwise.

Attenuator

Turning the volume down quickly.

Press the [ATT] button.
Each time you press the button, the Attenuator turns ON and OFF.
When the Attenuator is ON, the "ATT" indicator blinks.

English | **7**

General features

System Q

Selecting the best sound setting preset for different types of music.

1 Select the source to set
Press the [SRC] button.

2 Select the Sound type
Press the [Q] button.
When you press the button once, the current sound setting is displayed.
Each time you press the button, the sound setting alternates.

Sound setting	Display
Natural	"NATURAL"
Rock	"ROCK"
Pops	"POPS"
Easy	"EASY"
Top 40	"TOP40"
Jazz	"JAZZ"

{⫯⫯}
- Change each setting value with the <Speaker Setting> (page 9).
  First, select the speaker type with the Speaker setting.
- When the value is set up by <Audio Control> (page 8), "USER" is displayed.

Audio Control

1 Select the source to adjust
Press the [SRC] button.

2 Enter Audio Control mode
Press the [VOL] knob.

3 Select the Audio item to adjust
Press the [VOL] knob.
Each time you press the knob, the item to be adjusted alternates between the items shown in the table below.

4 Adjust the Audio item
Turn the [VOL] knob.

Adjustment Item	Display	Range
Bass level	"BAS L"	−8 — +8
Middle level	"MID L"	−8 — +8
Treble level	"TRE L"	−8 — +8
Balance	"BAL"	Left 15 — Right 15

Fader	"FAD"	Rear 15 — Front 15
Exit Audio Control mode (Volume control mode)		

5 Exit Audio Control mode
Press any button.
Press a button other than the [VOL] knob and [ATT] button.

Audio Setup

Setting the Sound system, such as Volume offset and Loudness.

1 Select the source to adjust
Press the [SRC] button.

2 Enter Audio Setup mode
Press the [VOL] knob for at least 1 second.

3 Select the Audio Setup item to adjust
Press the [VOL] knob.
Each time you press the knob, the item to be adjusted alternates between the items shown in the table below.

4 Adjust the Audio setup item
Turn the [VOL] knob.

Adjustment Item	Display	Range
Volume offset	"V-OFF"	−8 — ±0
Loudness	"LOUD"	ON/OFF

{⫯⫯}
- Volume offset: Sets each source's volume as a difference from the basic volume.
- Loudness: Compensates for low and high tones during low volume.
  When Loudness is ON, "LOUD" indicator is ON.

5 Exit Audio Setup mode
Press the [VOL] knob for at least 1 second.

Speaker Setting

Fine-tuning so that the System Q value is optimal when setting the speaker type.

1 Enter Standby
Press the [SRC] button.
Select the "STANDBY" display.

2 Enter Speaker Setting mode
Press the [VOL] knob.

3 Select the Speaker type
Turn the [VOL] knob.
Each time you turn the knob, the setting alternates between the settings shown in the table below.

Speaker type	Display
OFF	"SP OFF"
For 5 & 4 in. speaker	"SP 5/4"
For 6 & 6x9 in. speaker	"SP 6*9/6"
For the OEM speaker	"SP OEM"

4 Exit Speaker Setting mode
Press the [VOL] knob.

Switching Display

Changing the information displayed.

1 Enter Switching Display mode
Press the Control knob for at least 1 second.
"DISP SEL" is displayed.

2 Select the Display item
Push the Control knob towards [I◄◄] or [►►I].

In Tuner source

Information	Display
Frequency	"FREQ"
Clock	"CLOCK"

In CD source

Information	Display
Disc title	"D-TITLE"*
Track title	"T-TITLE"*
Track number & Play time	"P-TIME"
Clock	"CLOCK"

In Audio file source

Information	Display
Song title & Artist name	"TITLE"*
Album name & Artist name	"ALBUM"*
Folder name	"FOLDER"
File name	"FILE"
Track number & Play time	"P-TIME"
Clock	"CLOCK"

In VCD source

Information	Display
Track number & Play time	"P-TIME"
Clock	"CLOCK"

In Standby/ Auxiliary input source

Information	Display
Source name	"SRC NAME"
Clock	"CLOCK"

3 Exit Switching Display mode
Press the Control knob.

⌡⌠

- * If the contents of the information cannot be displayed, Play time is displayed.
- When you select the clock display, the display setting of each source will be changed to the clock display.
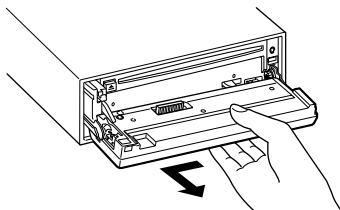- Album name cannot be displayed in WMA file.

Theft Deterrent Faceplate

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

Removing the Faceplate

1 Press the Release button.
Drop open the faceplate.

2 Drawing the faceplate to left side, pull it and detach from the unit.

⚠

• The faceplate is a precision piece of equipment and can be damaged by shocks or jolts.
• Keep the faceplate in its faceplate case while detached.
• Do not expose the faceplate (and the faceplate case) to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
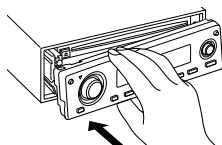
Reattaching the Faceplate

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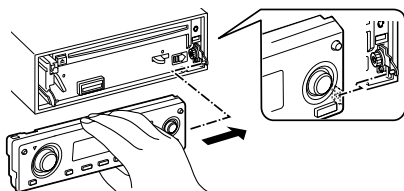
2 Push the faceplate in until it clicks.
The faceplate is locked in place, allowing you to use the unit.

TEL Mute

The audio system automatically mutes when a call comes in.

When a call comes in
"CALL" is displayed.
The audio system pauses.

Listening to the audio during a call
Press the [SRC] button.
The "CALL" display disappears and the audio system comes back ON.
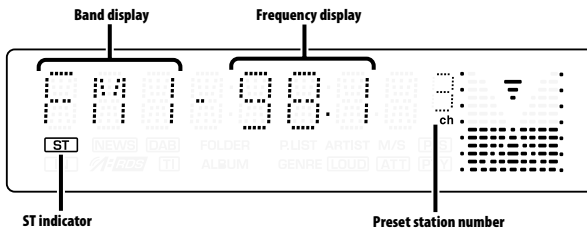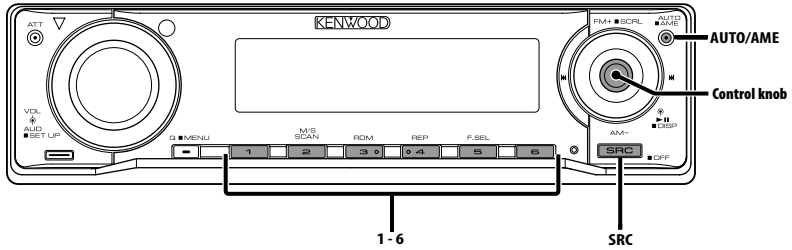
When the call ends
Hang up the phone.
The "CALL" display disappears and the audio system comes back ON.

⚛

• To use the TEL Mute feature, you need to hook up the MUTE wire to your telephone using a commercial telephone accessory. Refer to <Connecting Wires to Terminals> (page 22).

Tuner features

ATT
VOL AUD SET UP
Q MENU
M/S SCAN
RDM
REP
F.SEL

FM+ SCRL
AUTO/AME
Control knob
AM–
DISP
SRC
OFF

1 - 6

SRC

Band display   **Frequency display**

FM1 98.1 3

ST   NEWS DAB FOLDER P.LIST ARTIST M/S
ALBUM GENRE LOUD ATT

ST indicator   **Preset station number**

Tuning

Selecting the station.

1 **Select tuner source**
Press the [SRC] button.
Select the "TUNER" display.

2 **Select the band**
Push the Control knob towards [FM] or [AM].
Each time you push the knob toward [FM], it
switches between the FM1, FM2, and FM3 bands.

3 **Tune up or down band**
**Push the Control knob towards [I◄◄] or
[►►I].**

{✎}

- During reception of stereo stations the "ST" indicator
  is ON.

Tuning Mode

Choose the tuning mode.

Press the [AUTO] button.
Each time you press the button, the Tuning
mode alternates between the modes shown in
the table below.

Tuning mode	Display	Operation
Auto seek	"AUTO 1"	Automatic search for a station.
Preset station seek	"AUTO 2"	Search in order of the stations in the Preset memory.
Manual	"MANUAL"	Normal manual tuning control.

Tuner features

Station Preset Memory

Putting a station in the memory.

1 Select the band
Push the Control knob towards [FM] or [AM].

2 Select the frequency to put in the memory
Push the Control knob towards [I◄◄] or
[►►I].

3 Put the frequency in the memory
Press the desired [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
Push the Control knob towards [FM] or [AM].

2 Open Auto Memory Entry
Press the [AME] button for at least 2 seconds.
"A-MEMORY" is displayed.
When 6 stations that can be received are put in
the memory Auto Memory Entry closes.

Preset Tuning

Recalling the stations in the memory.

1 Select the band
Push the Control knob towards [FM] or [AM].

2 Recall the station
Press the desired [1] — [6] button.

Frequency Step Setting

Changing the tuning frequency step.
The original setting is 50 kHz for FM band, and 9
kHz for AM band.

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] buttons, press
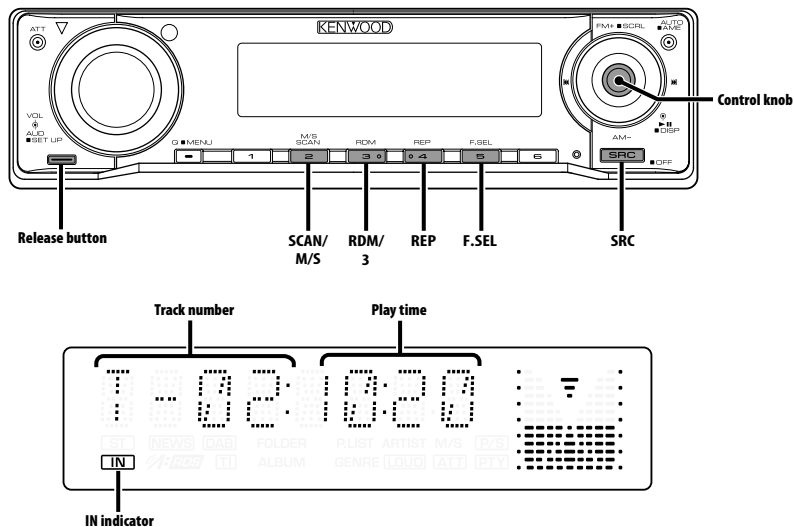**the [SRC] button.**
Release the [SRC] button first, after the display
appears, release your fingers from the [1] and [5]
buttons.
The frequency step changes to 200 kHz for FM
band, and 10 kHz for AM band.

⌣

• When the same operation is repeated, the frequency
step returns to the original setting.
• When the frequency step is changed, the frequencies
in the memory are deleted.

Release button

SCAN/
M/S

RDM/
3

REP

F.SEL

SRC

Control knob

Track number   Play time

IN indicator

Playing CD, Audio file & VCD

When there is no disc inserted

1 **Drop open the faceplate**
   Press the Release button.

2 **Insert a disc.**

3 **Push the faceplate on the left side, and return it to its former position.**

⚠

• When the faceplate has been dropped open, it might interfere with the shift lever or other vehicle function. If this happens, pay attention to safety and move the shift lever or take an appropriate action to remove the obstacle, then operate the unit.

• Do not use the unit with the faceplate in the open condition. If it's used in the open position dust can enter the inside part and cause damage.

{⫿}

• When a disc is inserted, the "IN" indicator is ON.

• Data is not displayed and not played back if it is recorded in the VCD title menu area for Playback Control.

• You cannot use the PBC (Playback Control) function even if the media having the PBC function is played back by this system.

When a disc is inserted
   Press the [SRC] button.
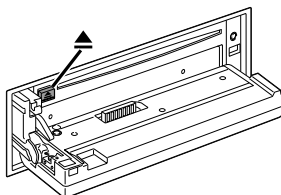   Select the "CD" display.

Pause and play
   Press the Control knob.
   Each time you press the knob, the audio pauses or plays.

Eject the disc

1 **Drop open the faceplate**
   Press the Release button.

2 **Eject the disc**
   Press the [⏏] button.

3 **Press the faceplate on the left side, and return it to its former position.**

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CD/Audio file/VCD control features

Fast Forwarding and Reversing

Fast Forwarding
Hold down the Control knob toward [►►I].
Release to resume the playback.

Reversing
Hold down the Control knob toward [I◄◄].
Release to resume the playback.

⟨꙰⟩
• The sound is not output while the Audio file and video track of Video CD is being searched.

Track/File Search

Searching for a song on the disc or in the Audio file folder.

Push the Control knob towards [I◄◄] or [►►I].

Function of Audio file
Folder Search

Selecting the folder recorded on the Audio file media.

Push the Control knob towards [FM] or [AM].

Function of remote control
Direct Track/File Search

Doing Track/File Search by entering the track/file number.

1 Enter the track/file number
Press the number buttons on the remote control.

2 Do Track/File Search
Press the [I◄◄] or [►►I] button.

Cancelling Direct Track/File Search
Press the [►II] button.

Track/File/Folder Repeat

Replaying the song or Audio file folder you are listening to.

Press the [REP] button.
Each time you press the button, the Repeat Play alternates between the modes shown in the tables below.

In CD,VCD source

Repeat play	Display
Track Repeat	"TRAC REP"
OFF	"REP OFF"

In Audio file source

Repeat play	Display
File Repeat	"FILE REP"
Folder Repeat	"FOLD REP"
OFF	"REP OFF"

Scan Play

Playing the first part of each song on the disc or Audio file folder you are listening to and searching for the song you want to hear.

1 Start Scan Play
Press the [SCAN] button.
"TRAC SCN"/"FILE SCN" is displayed.

2 Release it when the song you want to listen to is played
Press the [SCAN] button.

⟨꙰⟩
• You cannot use the Scan Play mode for a disc containing Video CD files.

Random Play

Play all the songs on the disc or Audio file folder in random order.

Press the [RDM] button.
Each time you press the button, Random Play turns ON or OFF.
When the Random mode is ON, "DISC RDM"/"FOLD RDM" is displayed.

 • When you push the Control knob toward [▶▶I], the
   next random song starts.

Function of Audio file
Folder Select

Quickly selecting the folder you want to hear.
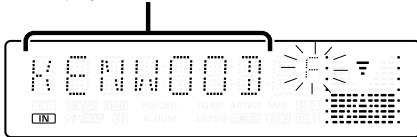
1 Enter Folder Select mode
Press the [F.SEL] button.
"FOLD SEL" is displayed.
During Select mode the folder information is
displayed as shown below.
Folder name display
Displays the current folder name.

2 Select the folder level
Push the Control knob towards [FM] or [AM].
With the [FM] of the Control knob, you move
1 level down and with the [AM] of the Control
knob, 1 level up.

Selecting a folder in the same level
**Push the Control knob towards [I◀◀] or
[▶▶I].**
With the [I◀◀] of the Control knob, you move
to the previous folder, and with the [▶▶I] of the
Control knob, to the next folder.

Returning to the top level
Press the [3] button.

Scrolling the folder name display
**Push the Control knob toward [FM] for at
least 2 seconds.**

3 Decide the folder to play
Press the Control knob.
The Folder Select mode releases, and the Audio
file in the folder being displayed plays.

Cancelling the Folder Select mode
Press the [F.SEL] button.

Function of VCD
Audio output select

You can change the audio output to Left or Right
STEREO.

Press the [M/S] button.

| Display	Operation
"ST"	The stereo sound is output.
"LL"	Outputs the Left channel sound to the right and left speakers.
"RR"	Outputs the Right channel sound to the right and left speakers.

 • If you play a disc containing the mixed Video CD and
   CD-DA signals, the Audio output select function is
   cancelled when the CD-DA part plays.

Text/Title Scroll

Scrolling the displayed CD text or Audio file text.

**Push the Control knob toward [FM] for at
least 2 seconds.**

Control knob

MENU　　　　　　**SRC**

Menu display
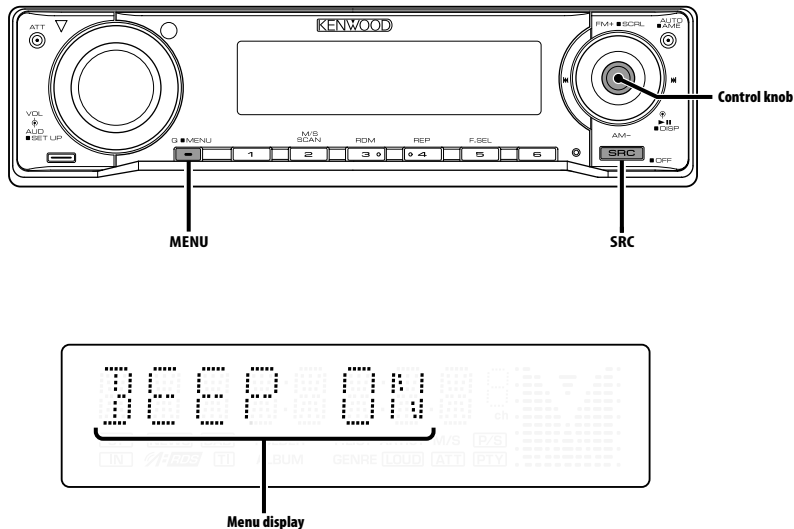
Menu System

Setting beep sound during operation, etc. functions.
The Menu system basic operation method is explained here. The reference for the Menu items and their setting content is after this operation explanation.

1 Enter Menu mode
   Press the [MENU] button for at least 1 second.
   "MENU" is displayed.

2 Select the menu item
   Push the Control knob towards [FM] or [AM].
   Example: When you want to set the beep sound select the "BEEP" display.

3 Set the menu item
   Push the Control knob towards [I◀◀] or [▶▶I].
   Example: When you select "BEEP", each time you push the knob it alternates between "BEEP ON" or "BEEP OFF". Select 1 of them as the setting.

You can continue by returning to step 2 and setting other items.

4 Exit Menu mode
   Press the [MENU] button.

⊞

• When other items those applicable to the basic operation method above are displayed, their setting content chart is entered. (Normally the setting listed at the top of the chart is the original setting.)
  Also, the explanation for items that are not applicable (<Manual Clock Adjustment> etc.) are entered step by step.

16 │ English

Touch Sensor Tone

Setting the operation check sound (beep sound) ON/OFF.

Display	Setting
"BEEP ON"	Beep is heard.
"BEEP OFF"	Beep canceled.

In Standby mode
Manual Clock Adjustment

1 Select Clock Adjustment mode
Push the Control knob towards [FM] or [AM].
Select the "CLK ADJ" display.

2 Enter Clock Adjust mode
Press the Control knob for at least 1 second.
The clock display blinks.

3 Adjust the hours
Push the Control knob towards [FM] or [AM].

Adjust the minutes
Push the Control knob towards [I◄◄] or [►►I].

4 Exit Clock adjustment mode
Press the [MENU] button.

In Standby mode
DSI (Disabled System Indicator)

A red indicator will blink on the unit after the faceplate is removed, warning potential thieves.

Display	Setting
"DSI ON"	LED flashes.
"DSI OFF"	LED OFF.

In Standby mode
Dimmer

Dimming this unit's display automatically when the vehicle light switch is turned ON.

Display	Setting
"DIM ON"	The display dims.
"DIM OFF"	The display doesn't dim.

In FM reception
CRSC (Clean Reception System Circuit)

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

Display	Setting
"CRSC ON"	The CRSC is ON.
"CRSC OFF"	The CRSC is OFF.

⟨⟩

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

Menu system

Auxiliary Input Display Setting

Selecting the display when changing to Auxiliary input source.

1 Select Auxiliary input source
Press the [SRC] button.
Select the "AUX" display.

2 Enter Menu mode
Press the [MENU] button for at least 1 second.
"MENU" is displayed.

3 Select Auxiliary input display setting mode
Push the Control knob towards [FM] or [AM].
Select the "NAME SET" display.

4 Enter Auxiliary input display setting mode
Press the Control knob for at least 1 second.
The presently selected Auxiliary input display is displayed.

5 Select the Auxiliary input display
Push the Control knob towards [|◀◀] or [▶▶|].
Each time you push the knob, the display alternates as listed below.
 • "AUX"
 • "DVD"
 • "PORTABLE"
 • "GAME"
 • "VIDEO"
 • "TV"

6 Exit Auxiliary input display setting mode
Press the [MENU] button.

⊜

 • When operation stops for 10 seconds, the name at that time is registered, and the Auxiliary input display setting mode closes.

Text Scroll

Setting the displayed text scroll.

Display	Setting
"SCL AUTO"	Repeats scroll.
"SCL MANU"	Scrolls when the display changes.

⊜

 • The text scrolled is listed below.
  - CD text
  - Folder name/ File name/ Song title/ Artist name/ Album name

In Standby mode
Built-in Auxiliary Input Setting

Set the Built-in Auxiliary Input function.

Display	Setting
"AUX OFF"	When selecting the source there's no Auxiliary Input.
"AUX ON"	When selecting the source there's Auxiliary Input.

In Standby mode
CD Read Setting

When there is a problem with playing a CD with special format, this setting plays the CD by force.

Display	Setting
"CD READ1"	Play CD and Audio file.
"CD READ2"	Play CD by force.

⊜

 • Setting "CD READ2" cannot play Audio file. Some music CDs may not play even in the "CD READ2" mode.

*In Standby mode*
Switches the NTSC/PAL setting

Alternates to the NTSC broadcast mode or PAL broadcast mode setting.

| Display	Setting
"P/N PAL"	Set this in the PAL broadcast mode area.
"P/N NTSC"	Set this in the NTSC broadcast mode area.

⊜

 • The PAL or NTSC setup must match the setup of the connected monitor unit. If they do not match, no image can be played.

Basic Operations of remote control

VOL —

SRC

ATT

AUD

►❚❚

FM/AM/＋/−

|◄◄/►►|

Not Used

Not Used

[0] — [9]
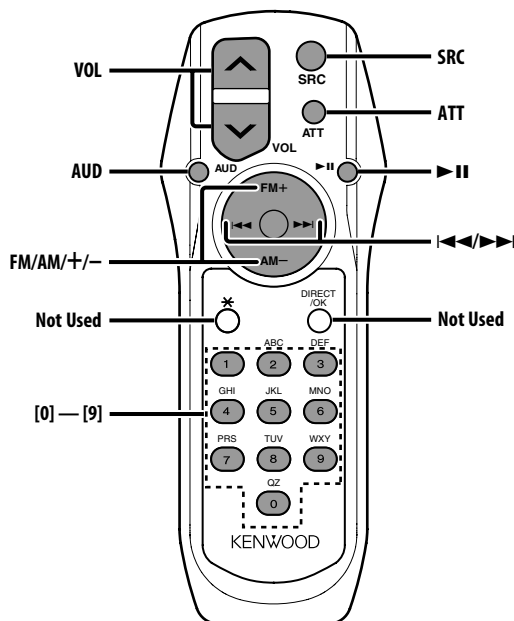
Loading and Replacing the battery

Use two "AA"/ "R6"-size batteries.
Slide the cover while pressing downwards to remove it as illustrated.
Insert the batteries with the + and − poles aligned properly, following the illustration inside the case.
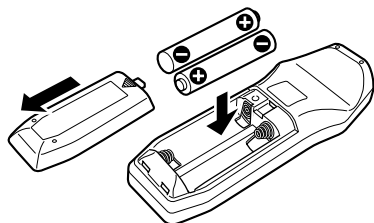
Basic operations

[VOL] buttons
   Adjusts the volume.

[SRC] button
   Each time you press the button, the source alternates.
   For the source alternating order refer to <Selecting the Source> (page 7).

[ATT] button
   Turns the volume down quickly.
   When the button is pressed again, the volume returns to the previous level.

Basic Operations of remote control

Audio Control

[AUD] button

Selects the Audio item to be adjusted.

[VOL] buttons

Adjusts the Audio item.

⟨📖⟩

• Refer to <Audio Control> (page 8) for the operation method, such as the procedures for Audio control and others operations.

In Tuner source

[FM]/ [AM] buttons

Selects the band.
Each time you press the [FM] button, the band alternates between the FM1, FM2, and FM3 bands.

[|◄◄]/ [►►|] buttons

Tune up or down band.

[0] — [9] buttons

Press buttons [1] — [6] to recall preset stations.

In Disc source

[|◄◄]/ [►►|] buttons

Going forwards and backwards between track/ files.

[+]/ [−] buttons

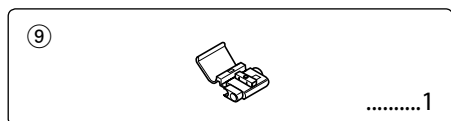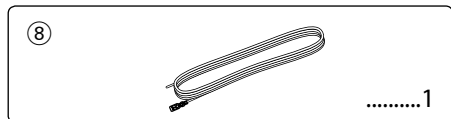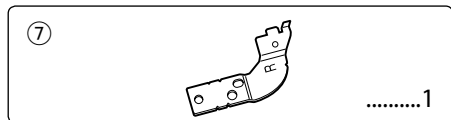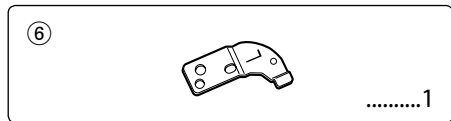Going forwards and backwards between folders.

[►II] button

Each time you press the button, the song pauses or plays.

[0] — [9] buttons

When in <Direct Track/File Search> (page 14), enters the track/file number.

Accessories/ Installation Procedure

Accessories

① 1

② 2

③ 4

④ 4

⑤ 2

⑥ 1
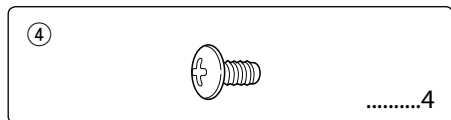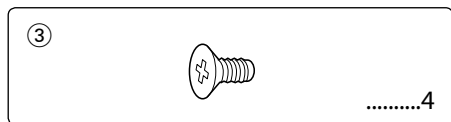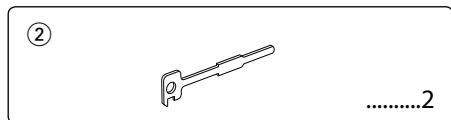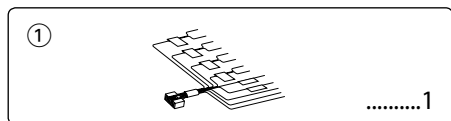
⑦ 1

⑧ 1

⑨ 1
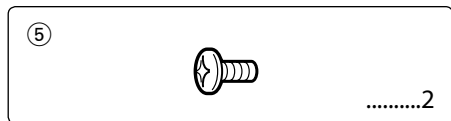
Installation Procedure

1. To prevent a short circuit, remove the key from the ignition and disconnect the ⊖ battery.
2. Make the proper input and output wire connections for each unit.
3. Connect the speaker wires of the wiring harness.
4. Connect the wiring harness wires in the following order: ground, battery, ignition.
5. Connect the wiring harness connector to the unit.
6. Install the unit in your car.
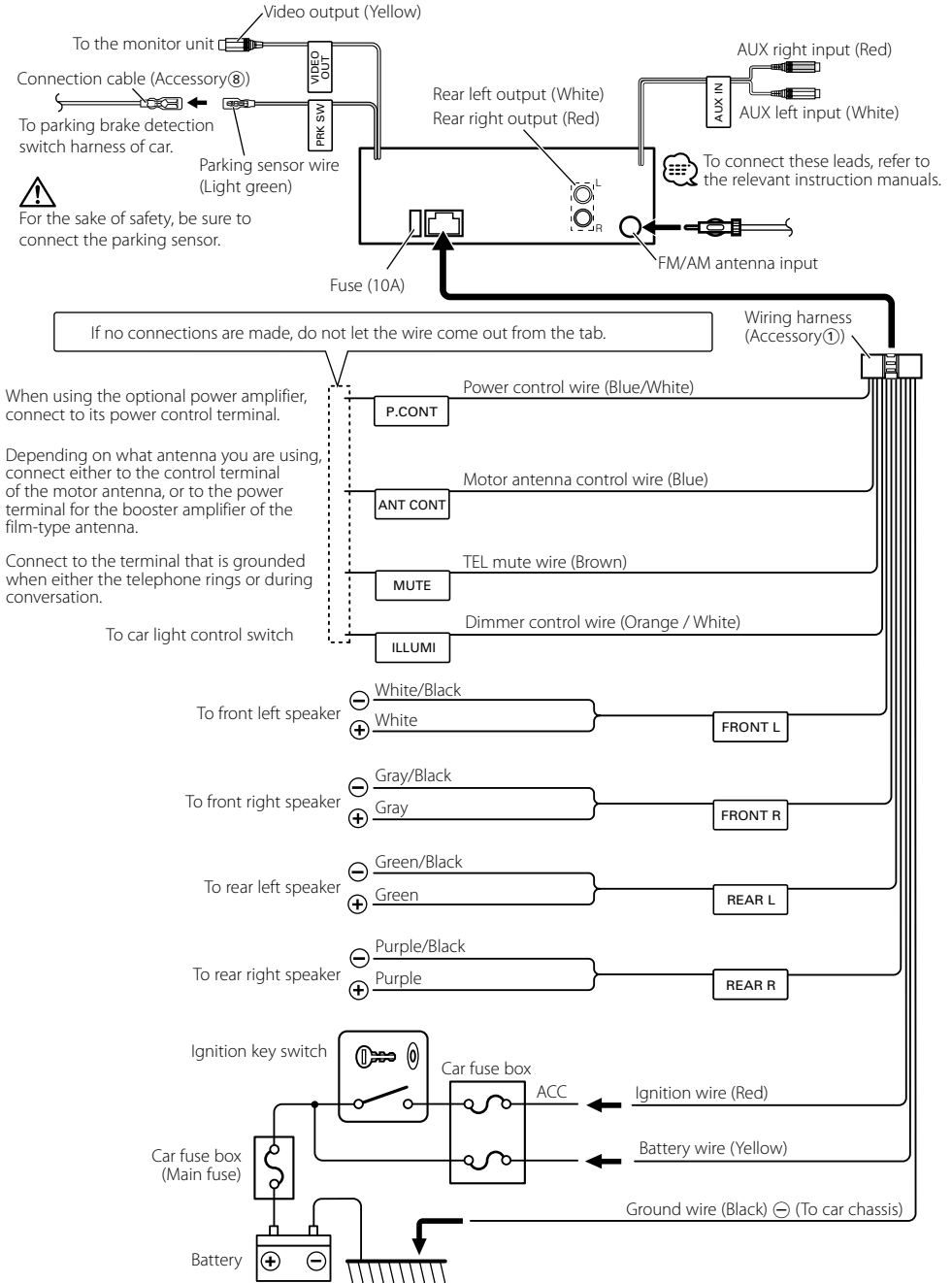7. Reconnect the ⊖ battery.
8. Press the reset button.

⚠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.

⚠
- If the power is not turned ON (or it is ON, but will be OFF immediately), the speaker wire may have a short-circuit or touched the chasis of the vehicle and the protection function may have been activated. Therefore, the speaker wire should be checked.
- 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 ⊖ 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 ⊕ connector of the left speaker to a front output terminal, do not connect the ⊖ 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.
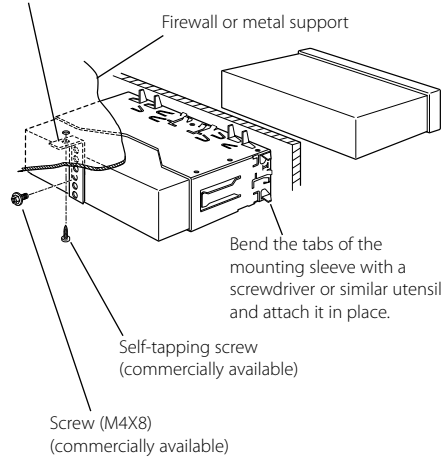- Mount the unit so that the mounting angle is 30° or less.

English | **21**

Connecting Wires to Terminals

Video output (Yellow)

To the monitor unit

VIDEO OUT

Connection cable (Accessory⑧)

To parking brake detection switch harness of car.

PRK SW

Parking sensor wire (Light green)

⚠ For the sake of safety, be sure to connect the parking sensor.

Rear left output (White)
Rear right output (Red)

L
R

AUX right input (Red)

AUX IN

AUX left input (White)

📧 To connect these leads, refer to the relevant instruction manuals.

FM/AM antenna input

Fuse (10A)

Wiring harness (Accessory①)

If no connections are made, do not let the wire come out from the tab.

When using the optional power amplifier, connect to its power control terminal.

Power control wire (Blue/White)

P.CONT

Depending on what antenna you are using, connect either to the control terminal of the motor antenna, or to the power terminal for the booster amplifier of the film-type antenna.

Motor antenna control wire (Blue)

ANT CONT

Connect to the terminal that is grounded when either the telephone rings or during conversation.

TEL mute wire (Brown)

MUTE

To car light control switch

Dimmer control wire (Orange / White)

ILLUMI

To front left speaker
⊖ White/Black
⊕ White

FRONT L

To front right speaker
⊖ Gray/Black
⊕ Gray

FRONT R

To rear left speaker
⊖ Green/Black
⊕ Green

REAR L

To rear right speaker
⊖ Purple/Black
⊕ Purple

REAR R

Ignition key switch

Car fuse box

ACC

Ignition wire (Red)

Car fuse box (Main fuse)

Battery wire (Yellow)

Ground wire (Black) ⊖ (To car chassis)

Battery ⊕ ⊖

Installation

non-Japanese cars

Metal mounting strap
(commercially available)

Firewall or metal support

Bend the tabs of the
mounting sleeve with a
screwdriver or similar utensil
and attach it in place.

Self-tapping screw
(commercially available)

Screw (M4X8)
(commercially available)

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

Japanese cars

1 Refer to the section <Removing the hard rubber frame> (page 25) and then remove the hard rubber frame.

2 Align the holes in the unit (two locations on each side) with the vehicle mounting bracket and secure the unit with the accessory screws.

T: Toyota cars
N: Nissan cars

8 mm MAX.
③
ø5mm

8mm MAX.
④
ø5mm
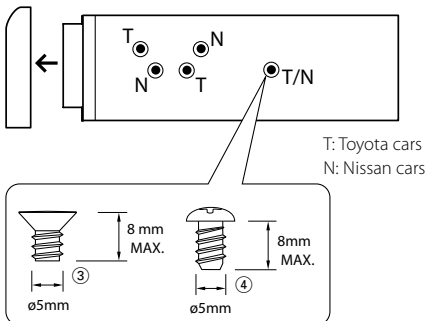
Accessory③...for Nissan car
Accessory④...for Toyota car

---

⚠️

- 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.
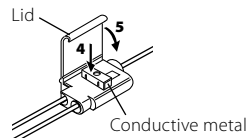
Using the Relay Connector

1 Plug the vehicle's harness into the relay connector.
2 Plug the parking brake detection wire into the relay connector.

Vehicle harness

Relay connector
Accessory⑨

Detection wire
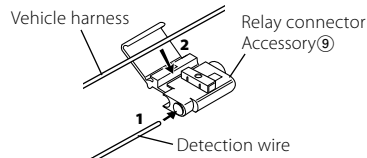
3 Lock the cable clamp.

Cable clamp
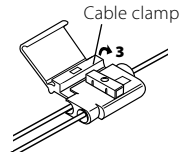
4 Press down using pliers until the conductive metal is even with the plastic surface.
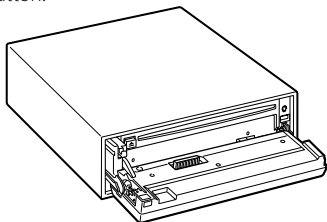**5** Lock the lid.

Lid

Conductive metal

Installation

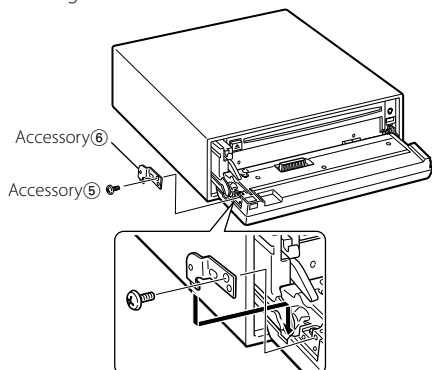## Screwing the Faceplate on the Unit

If you want to fasten the faceplate to the main unit so that it does not fall off.

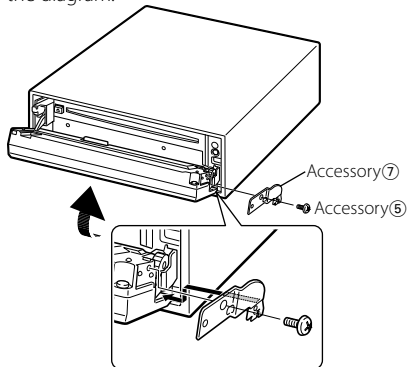**1** Refer to the section <Removing the hard rubber frame> (page 25) and then remove the hard rubber frame.

2 Drop open the faceplate by pressing the Release button.

3 Tighten the screw (ø2 × 5 mm) (Accessory⑤) and bracket (Accessory⑥) in the hole shown on the diagram.

4 Tighten the screw (ø2 × 5 mm) (Accessory⑤) and bracket (Accessory⑦) in the hole shown on the diagram.


⚠
• Never insert the screws in any other screw hole than the one specified. If you screw them in another hole, it will contact and may cause damage to the mechanical parts inside the unit.
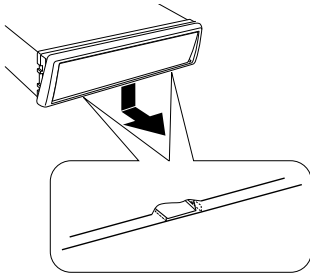
Removing the hard rubber frame

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

Lock

Catch

Accessory②
Removal tool
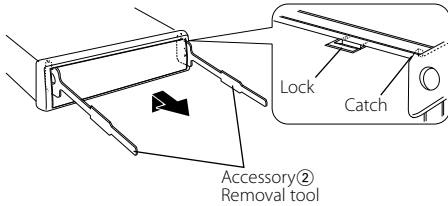
2 When the upper level is removed, remove the lower two locations.
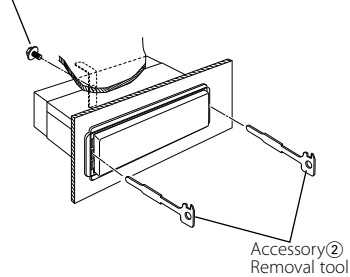
⟨☰⟩

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

## Removing the Unit

1 Refer to the section <Removing the hard rubber frame> (page 25) 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.

Screw (M4X8)
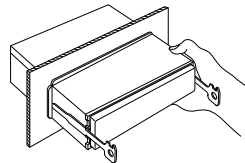(commercially available)

Accessory②
Removal tool

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

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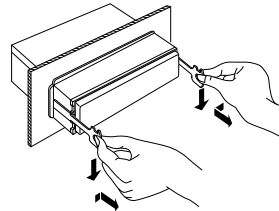
• Be careful to avoid injury from the catch pins on the removal tool.

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

English | **25**

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.

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

? The memory is erased when the ignition is turned OFF.
- ✔ The ignition and battery wire are incorrectly connected.
  - ☞ Connect the wire correctly, referring to the section on <Connecting Wires to Terminals> (page 22).

? The TEL mute function does not work.
- ✔ The TEL mute wire is not connected properly.
  - ☞ Connect the wire correctly, referring to the section on <Connecting Wires to Terminals> (page 22).

? The TEL mute function turns ON even though the TEL mute wire is not connected.
- ✔ The TEL mute wire is touching a metal part of the car.
  - ☞ Pull the TEL mute wire away from the metal part of the car.

? 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> (page 22).
- ✔ The values of Volume offset are low.
  - ☞ Turn up the Volume offset, referring to the section on <Audio Setup> (page 8).

? The sound quality is poor or distorted.
- ✔ One of the speaker wires is being pinched by a screw in the car.
  - ☞ Check the speaker wiring.
- ✔ The speakers are not wired correctly.
  - ☞ Reconnect the speaker wires so that each output terminal is connected to a different speaker.

? 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.

? The Dimmer function doesn't work.
- ✔ The Dimmer wire isn't connected correctly.
  - ☞ Check the Dimmer wire connection.
- ✔ The <Dimmer> (page 17) is OFF.
  - ☞ Turn it ON.

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> (page 22).

Disc source

? **The specified disc does not play, but another one plays instead.**
  ✔ The specified CD is quite dirty.
    ☞ Clean the CD.
  ✔ The disc is severely scratched.
    ☞ Try another disc instead.

? **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.

? **The disc won't insert.**
  ✔ There's already another disc inserted.
    ☞ Press the [⏏] button and remove the disc.

? **Direct Search can't be done.**
  ✔ Another function is ON.
    ☞ Turn Random Play or other functions OFF.

Audio file source

? **Cannot play an Audio file.**
  ✔ The media is scratched or dirty.
    ☞ Clean the media, referring to the CD cleaning of the section on <About CDs> (page 5).

? **The sound skips when an Audio file is being played.**
  ✔ The media is scratched or dirty.
    ☞ Clean the media, referring to the CD cleaning of the section on <About CDs> (page 5).
  ✔ The recording condition is bad.
    ☞ Record the media again or use another media.

? **The Audio file track time isn't displayed correctly.**
  ✔ ---
    ☞ There are times when it isn't displayed correctly according to the Audio file recording conditions.

The messages shown below display your systems condition.

TOC ERR: The CD is quite dirty. The CD is upside-down. The CD is scratched a lot.
    ⇨ Clean the CD and load it correctly.

E-05:   The CD is upside-down.
    ⇨ Load the CD correctly.

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.

READING: The unit is reading the data on the disc.

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

PROTECT: The speaker wire has a short-circuit or touches the chassis of the vehicle, and then the protection function is activated.
    ⇨ Wire or insulate the speaker cable properly and press the reset button.

NA FILE: An Audio file is played with a format that this unit can't support.
    ⇨ ----

COPY PRO: A copy-protected file is played.
    ⇨ ----

PRK OFF: No parking brake is applied during playback of the Video CD.

Specifications

Specifications subject to change without notice.

FM tuner section

Frequency range (50 kHz space)
 : 87.5 MHz – 108.0 MHz
Frequency range (200 kHz space)
 : 87.9 MHz – 107.9 MHz
Usable sensitivity (S/N = 30dB)
 : 9.3dBf (0.8 μV /75 Ω)
Quieting Sensitivity (S/N = 50dB)
 : 15.2dBf (1.6 μV /75 Ω)
Frequency response (±3.0 dB)
 : 30 Hz – 15 kHz
Signal to Noise ratio (MONO)
 : 70 dB
Selectivity (±400 kHz)
 : ≥ 80 dB
Stereo separation (1 kHz)
 : 40 dB

AM tuner section

Frequency range (9 kHz space)
 : 531 kHz – 1611 kHz
Frequency range (10 kHz space)
 : 530 kHz – 1700 kHz
Usable sensitivity (S/N = 20dB)
 : 28 dBμ (25 μV)

Audio section

Maximum output power
 : 50 W x 4
Full Bandwidth Power (at less than 1% THD)
 : 22 W x 4
Speaker impedance
 : 4 - 8 Ω
Tone action
 Bass : 100 Hz ±8 dB
 Middle : 1 kHz ±8 dB
 Treble : 10 kHz ±8 dB
Preout level / Load (during disc play)
 : 2000 mV/10 kΩ
Preout impedance
 : ≤ 600 Ω

Auxiliary input

Frequency response (±1 dB)
 : 20 Hz – 20 kHz
Input Maximum Voltage
 : 1200 mV
Input Impedance
 : 100 kΩ

CD player section

Laser diode
 : GaAlAs
Digital filter (D/A)
 : 8 Times Over Sampling
D/A Converter
 : 1 Bit
Spindle speed
 : 500 – 200 rpm (CLV)
Wow & Flutter
 : Below Measurable Limit
Frequency response (±1 dB)
 : 10 Hz – 20 kHz
Total harmonic distortion (1 kHz)
 : 0.01 %
Signal to Noise ratio (1 kHz)
 : 93 dB
Dynamic range
 : 93 dB
MP3 decode
 : Compliant with MPEG-1/2 Audio Layer-3
WMA decode
 : Compliant with Windows Media Audio
Video CD format
 : Version 1.1
Color system
 : NTSC/PAL
Video output level
 : 1Vp-p/75 Ω

General

Operating voltage (11 – 16V allowable)
 : 14.4 V
Current consumption
 : 10 A
Installation Size (W x H x D)
 : 182 x 53 x 155 mm
Weight
 : 1.40 kg