KENWOOD

DNX9280BT

GPS NAVIGATION SYSTEM
Quick Start Guide
SYSTÈME DE NAVIGATION GPS
Guide de démarrage rapide
GPS-NAVIGATIONSSYSTEM
Kurzanleitung
GPS-NAVIGATIESYSTEEM
Snelstartgids

Kenwood Corporation

DVD V I D E O™

Designed for
Windows
Media™

AAC

DivX®

DOLBY DIGITAL PRO LOGIC II

dts Digital Surround™

SɾS® WOW™

Bluetooth®

Made for
iPod iPhone

B59-2042-00/00 (EW)

Contents

About the Quick Start Guide

This Quick Start Guide explains the basic functions of this unit. For functions not covered in this Guide, refer to the Instruction Manual (PDF file) contained in the included CD-ROM "Instruction Manual".

To refer to the Instruction Manual contained in the CD-ROM, a PC loaded with Microsoft® Windows XP/Vista/7 or Mac OS X® 10.4 or later is required in addition to Adobe® Reader™ 7.1 or Adobe® Acrobat® 7.1 or later.

The Instruction Manual is subject to change for modification of specifications and so forth. You can download the latest version of the Instruction Manual from manual.kenwood.com/edition/im332/.

Precautions

⚠WARNING
To prevent injury or fire, take the following precautions:
- Do not watch or fix your eyes on the unit's display when you are driving for any extended period.
- 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.

Precautions on using this unit
- 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.
- Select a language used to display menus, audio file tags, etc. See <Language Setting> (page 6).
- The Radio Data System feature won't work where the service is not supported by any broadcasting station.

Protecting the monitor
To protect the monitor from damage, do not operate the monitor using a ball point pen or similar tool with the sharp tip.

Lens Fogging
When you turn on the car heater in cold weather, dew or condensation may form on the lens in the disc player of the unit. Called lens fogging, this condensation on the lens may not allow discs 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.

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 a 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 erase screened print.

How to reset your unit
If the unit or the connected unit fails to operate properly, press the Reset button. The unit returns to factory settings when the Reset button is pressed.
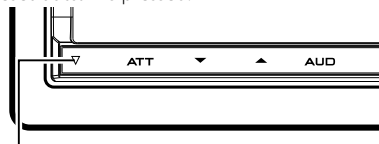
Reset button

- Remove the USB device before pressing the Reset button. Pressing the Reset button with the USB device installed can damage the data contained in the USB device. For how to remove the USB device, see <How To Play Media> (page 11).
- When the unit is turned on after pressing the Reset button, the Initial SETUP screen is displayed. Refer to <Initial Setup> (page 6).

Safety Precautions and Important Information

Read this information carefully before starting to operate the Kenwood Car Navigation System and follow the instructions in this manual. Neither Kenwood nor Garmin shall be liable for problems or accidents resulting from failure to observe the instructions in this manual.

⚠WARNINGS

Failure to avoid the following potentially hazardous situations could result in an accident or collision resulting in death or serious injury.

When navigating, carefully compare information displayed on the navigation system to all available navigation sources, including information from street signs, visual sightings, and maps. For safety, always resolve any discrepancies or questions before continuing navigation.

Always operate the vehicle in a safe manner. Do not become distracted by the navigation system while driving, and always be fully aware of all driving conditions. Minimize the amount of time spent viewing the screen of the navigation system while driving, and use voice prompts when possible.

Do not enter destinations, change settings, or access any functions requiring prolonged use of the navigation system controls while driving. Stop your vehicle in a safe and legal manner before attempting such operations.

Keep the system volume at a low enough level to be able to hear outside noises while driving. If you can no longer hear outside noises, you may be unable to react adequately to the traffic situation. This may cause accidents.

The navigation system will not display the correct current position of the vehicle the first time it is used after purchase, or if the vehicle battery is disconnected. GPS satellite signals will soon be received, however, and the correct position will be displayed.

Be careful of the ambient temperature. Using the navigation system at extreme temperatures can lead to malfunction or damage. Also note that the unit can be damaged by strong vibration, by metal objects, or by water getting inside the unit.

⚠CAUTIONS

Failure to avoid the following potentially hazardous situations may result in injury or property damage.

The navigation system is designed to provide you with route suggestions. It does not reflect road closures or road conditions, weather conditions, or other factors that may affect safety or timing while driving.

Use the navigation system only as a navigational aid. Do not attempt to use the navigation system for any purpose requiring precise measurement of direction, distance, location, or topography.

The Global Positioning System (GPS) is operated by the United States government, which is solely responsible for its accuracy and maintenance. The government system is subject to changes that could affect the accuracy and performance of all GPS equipment, including the navigation system.

Although the navigation system is a precision navigation device, any navigation device can be misused or misinterpreted and, therefore, become unsafe.

IMPORTANT INFORMATION
Vehicle Battery Preservation

This navigation system can be used when the ignition key is turned to ON or ACC. To preserve the battery, however, it should be used with the engine running whenever possible. Using the navigation system for a long time with the engine switched off can cause the battery to run down.

Map Data Information

One of the goals of Garmin is to provide customers with the most complete and accurate cartography that is available to us at a reasonable cost. We use a combination of governmental and private data sources, which we identify in product literature and copyright messages displayed to the consumer.
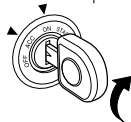
Virtually all data sources contain some inaccurate or incomplete data. In some countries, complete and accurate map information is either not available or is prohibitively expensive.
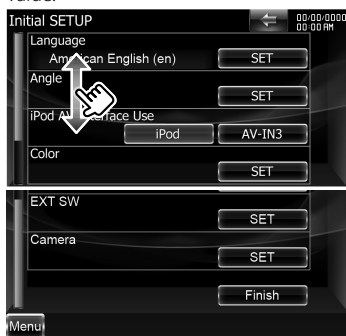
Getting Started

Initial Setup

This setting is only necessary when you use the unit for the first time after purchase, and when you reset the unit.

1 Turns the power On.

2 Touch the corresponding key and set the value.

[Language] Select the language used for the control screen and setting items.

[Angle] You can adjust the position of the monitor.

[iPod AV Interface Use] You can determine the use of iPod/AV-IN3 input terminal. (Preset: "iPod")

"iPod": Select when connecting the iPod using the KCA-iP302 for iPod.

"AV-IN3": Select to play an AV component connected to the iPod/AV-IN3 input terminal.

[Color] Sets the button illumination color.

[EXT SW] Set the controls for the external devices.

[Camera] Set the parameters for the Camera.

3 Touch **[Finish]**.

Language Setting

ASR	Selects whether to use the voice control function. (Preset: "Enabled")
	Touching **[Disabled]** allows you to select languages for respective items.
	"Enabled": Voice control is activated.
	"Disabled": Voice control is deactivated.
Language Select	Selects a language.
Enter	Determines the selected language.
Cancel	Cancels the selected language.

When [ASR] is set to "Disabled"

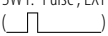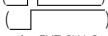| GUI Language Select | Selects the display language used for the control screen and so forth. |
| **Navigation Language Select** | Selects the language used for navigation. |
| **Text Language Select** | Selects the language used for tag text (song information). |

Monitor Angle Control

-1 – 5	Sets the Monitor angle.
Off Position	Stores the current monitor angle as the angle during power off.
Auto Open	When turned on, the front panel is set to open automatically when the ignition is turned off, so that it can be detached for antitheft purpose. (Preset: "OFF")
⤴	Returns to the previous screen.

Panel Color Coordinate

SET	Select a color **[Blue]** . . . **[White]** Sets the selected color. **[Adjust]** Sets and registers favorite color to the preset buttons (**[Preset1]** – **[Preset3]**).
Initialize	Initialization resets the settings made using the Panel Color SET process to the default settings set at the factory.
Panel Color Scan	When set to "ON", the illumination color of the buttons changes one after another.
⬑	Returns to the previous screen.

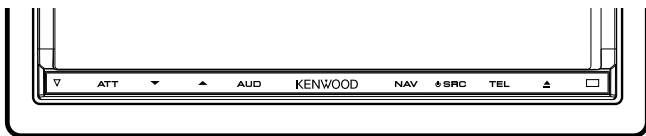• When touching [SET] or [Initialize], make sure [Panel Color Scan] is set to "OFF".

EXT SW Setup

SW1 Name/ SW2 Name	Sets the name of the external device.
Output Pattern	Sets the power signal output mode. (Preset: EXT SW1: "Pulse", EXT SW2: "Level") **"Pulse":** Generates a single power signal pulse. (＿＿冂＿＿＿＿) **"Level":** Continues output of high power signal. (＿＿冂＿＿＿＿) Sets to turn output on/off each time the button on the EXT SW Control screen is touched.
Pulse Set	Sets the Pulse signal output time. Outputs 500ms when "1" is set. Increases by 200ms with each step. Up to 100 steps can be set.
⬑	Returns to the previous screen.

Camera Setup

Rear Camera	Selects the type of rear camera to use. (Preset: "Other") **"CMOS-300":** When the CMOS-300 with ID 1 set is connected. When setting to "CMOS-300", camera adjustment screen appears. For the adjustment method, refer to the manual of CMOS-300. **"Other":** When the other camera is connected.
R-CAM Interruption	Sets a method to switch to the rear view camera video display. (Preset: "OFF") **"ON":** Switches to the rear view camera video display when engaging the shift knob of car to "Reverse". **"OFF":** Switches to the rear view camera video display, press the **[AUD]** button for longer than 1 second. The function of the **[AUD]** button needs to be set to "CAM" in **[AUD Key Longer than 1 Second]** beforehand.
Front Camera	Turn this setting on when the CMOS-300 with ID2 set is connected. When setting to "ON", camera adjustment screen appears. For the adjustment method, refer to the manual of CMOS-300.
⬑	Returns to the previous screen.

Basic Operation

When you press or hold the following button(s)...

Button	General operation
SRC	Turns the power On. Displays the Source Control screen. **1 sec.** Turns the power Off.
▲ / ▼	Volume adjustment. Holding down a key turns up the volume in series up to 25. For more than 25, pressing the key turns up the volume one by one.
ATT	Attenuation of the volume On/Off. **1 sec.** Switches the source that is output at the AV OUTPUT terminal.
AUD	Displays Graphic Equalizer screen. **1 sec.** Turns the display Off.
NAV	Displays the navigation screen. **1 sec.** While watching the navigation screen Picture in Picture function On/Off.
TEL	Displays the Hands Free Control screen. **1 sec.** While watching the Source Control screen Secondary window function On/Off. **1 sec.** While watching the navigation screen Displays the Screen Control screen. **1 sec.** While watching the playback screen of a visual source Displays the Easy Control screen.

Notes

You can adjust the sensitivity of the buttons (touch sensors) on the front panel.
1. Touch [ ] on common menu bar.
2. Touch **[System]** > **[User Interface]**.
3. The **[Panel Switch Sensitivity]** item allows you to set the sensitivity.

How to Display the Source Control Screen

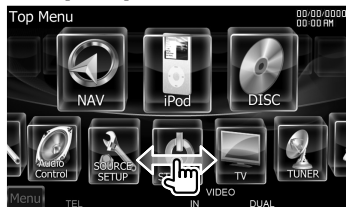Press **[SRC]** to display the Source Control screen.

In case of visual sources, the playback screen is first displayed and changed to the source control screen by pressing the button again.

How to Display Top Menu Screen

Press **[SRC]** to display the Source Control screen. When a video screen is displayed, press **[SRC]**.
Touch **[Menu]** on Source Control screen.

How to Display Common Menu bar

Touch [ ] to open the common menu bar.

| Button	General operation
	Displays the currently selected source screen. The button icon to be displayed varies depending on playing source. The above icon display is an example when the source is DVD.
	Displays Audio Control Menu screen.
	Displays SETUP Menu screen.
	Displays the EXT SW (External Switch) Control screen.
	Closes the common menu bar.

Flick scrolling

You can scroll the list screen by flicking the screen up/down or right/left.
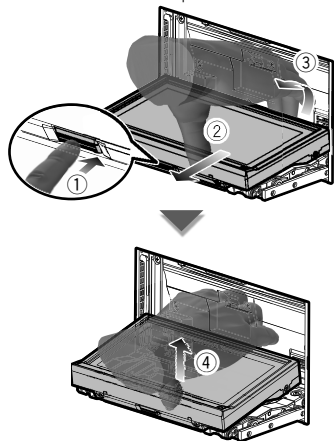
Detaching the monitor panel

1 Open the front panel
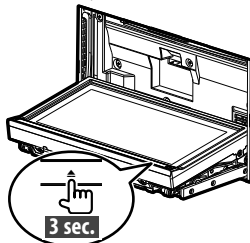
Press **[⏏]** for longer than 3 seconds to open the front panel before turning the ignition off.

2 Detach the monitor panel

Notes

• The attaching plate closes automatically about 10 seconds after the monitor panel is released. Remove the monitor panel before this happens.
• It closes automatically when no operation is done for about a minute.

3 Put the monitor panel in the protective bag
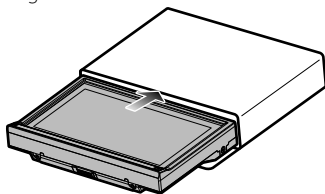
Attaching the monitor panel

Hold the monitor panel securely so as not to drop it accidentally.
Fit the monitor panel onto the attaching plate until it is firmly locked.

How To Play Media

Disc media

Press **[▲]** for 1 second to open/close the front panel.
If a disc is already inserted, it is ejected by press **[▲]** for 1 second.

Notes
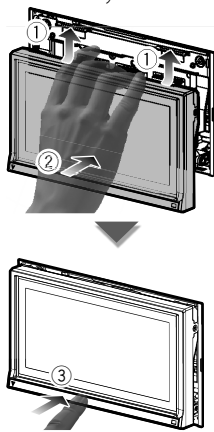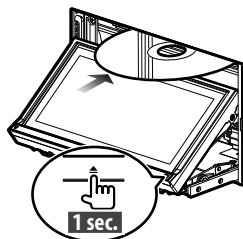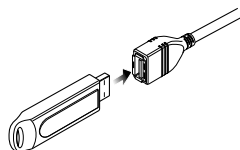
• **Playable discs:** DVD-Video, DVD±R/RW, DVD±DL, CD, CD-ROM/R/RW, Video CD
• **Playable disc file format:** ISO 9660 Level 1/2, Joliet, Romeo, Long file name
• **Playable Audio files:** AAC-LC (.m4a), MP3 (.mp3), WMA (.wma)
• **Acceptable Video files:** MPEG1 (.mpg, .mpeg, .m1v), MPEG2 (.mpg, .mpeg, .m2v), DivX (.divx, .div, .avi)

USB device

To disconnect the USB device, touch **[▲]** on the source control screen, and then disconnect the USB device.

Notes

• **Acceptable media:** mass-storage-class USB device
• **Playable USB device file system:** FAT16, FAT32
• **Playable Audio files:** AAC-LC (.m4a), MP3 (.mp3), WMA (.wma), Linear PCM (WAVE) (.wav)
• **Acceptable Video files:** MPEG1 (.mpg, .mpeg, .m1v), MPEG2 (.mpg, .mpeg, .m2v), H.264/MPEG-4 AVC (.mp4, .m4v), WMV 9 (.wmv, .m2ts)

iPod
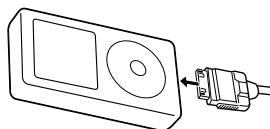
To disconnect the iPod, stop the playback by touching **[▲]** on the source control screen, and then disconnect the iPod.

Notes

• **When Connecting Two iPods:** When iPod1 is disconnected, you cannot listen to the iPod2's music. Connect iPod2 to the iPod1 terminal.

SD card

This SD card slot is used to upgrade the Navigation System.
For how to upgrade the Navigation System, refer to the instruction manual of the navigation system.
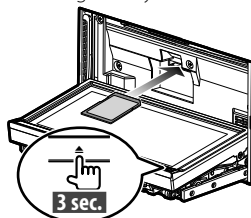
Press **[▲]** for longer than 3 seconds to open the front panel.
Inserting the SD card
Hold the SD card with the label side up and the notched section on the right, and insert it into the slot until it clicks.
Removing the SD card
Push the SD card until it clicks and then remove your finger from the card. The card pops up so that you can pull it out with your fingers.
Press **[▲]** for longer than 1 second to close the front panel.

How To Play Media

Control the music you are listening to on the source control screen.

DVD   *VCD*

CD   *DVD media*

USB device   *iPod*

| Button	General operation
►❚❚	Plays or pauses.
■	Stops playing. When touched twice, the disc is played from its beginning when you play it the next time.
▲	Ejects or disconnects the media.
❘◄◄ / ►►❘	Searchs the previous/next content.
◄◄ / ►►	Fast forwards or Fast backwards.
◄❘ / ❘►	Slow Forwards or Backwards.
▬ / ▬	Selects a folder.
🎬	Switches to the playback screen.
⇐	Opens the multi function bar

Multi Function

#/# ▼	Switches the multi function display.
TREP/ CREP/ REP/ FREP	Switches the Repeat Play operations.
RDM	Starts or stops Random Play.
ARDM	Starts or stops Album Random Play.
TIME	Switches the play time display.
PBC	Turns the PBC On or Off.
INFO	Displays music information.
CTRL/ Slider	Switches control mode to button or slider.

Hand	Allows you to operate iPod with the control of the iPod. (When two iPods are connected, iPod2 cannot be selected.)
Device	Switches between the two iPods connected.
✕	Closes the multi function bar.

Search the file you want to listen to

1 Start List Search

DVD media
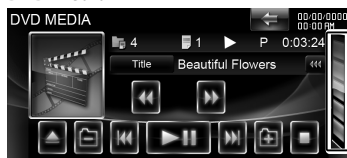
Displays the folder list.

USB device

Touch **[⇐]** to open the multi function bar.

[Music]: Displays the music list.
[Video]: Displays the video list.
[Picture]: Displays the Thumbnail Viewer.
[Folder]: Displays the folder list.

iPod

Touch **[⇐]** to open the multi function bar.

[Music]: Displays the list of music category.
[Video]: Displays the list of video category.
(iWhen two iPods are connected, iPod2 cannot be selected.)

2 Select a file

Folder list

1 : Folder opens when touched, and the files in the folder are played.

2 : Selects the file type to display.

3 : Returns to the Source Control screen.

[◄◄]: When the text is longer, the text display is scrolled by touching it.

[ROOT]: Moves to the top hierarchy level.

[TOP]: Moves to the top folder.

[UP]: Moves up a hierarchy level.

[CUR]: Displays the currently playing folder.

Music or Video list of USB device
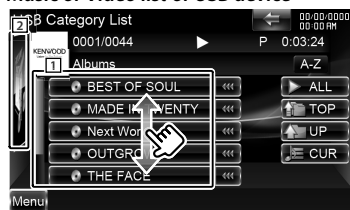
1 : Switches to the lower level of the category.

2 : Returns to the Source Control screen.

[◄◄]: When the text is longer, the text display is scrolled by touching it.

[▷ ALL]: Lists all the music in the selected category.

[TOP]: Moves to the top category.

[UP]: Moves to the upper level of the category.

[CUR]: Displays the currently playing category.

Thumbnail Viewer
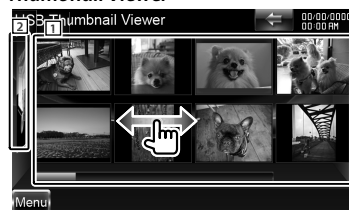
1 : Touching a thumbnail image displays it in full-screen view.

2 : Returns to the Source Control screen.

Music or Video list of iPod
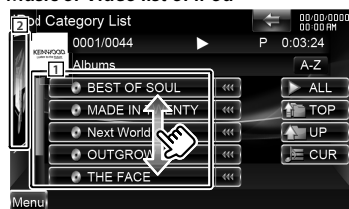
1 : Categories and music are listed. Touch a category name to view its contents. If music title is displayed, the music is played by touching it.

2 : Returns to the Source Control screen.

[◄◄]: When the text is longer, the text display is scrolled by touching it.

[▷ ALL]: Lists all the music in the selected category.

[TOP]: Moves to the top category.

[UP]: Returns to previous category.

[CUR]: Displays the currently playing category.

Scrolls to the position of the specified character

Touch **[A–Z]** to open the character select bar.

◄ | A | B | C | D | E | F | G | H | ►

Scrolls to the selected character.

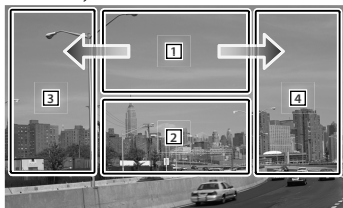# Operation on the Playback Screen of Visual Sources

Playback screen of a visual source

**1** Press **[SRC]** to display the playback screen.

2 Touch any area on the screen.

Area	General operation
1	**DVD:** Displays the Menu Control 1 Screen or Highlight Control (When DVD Menu). **VCD:** Displays the Zoom Control Screen. **DivX:** Displays the Menu Control Screen. **Picture:** Displays the Picture Control Screen. Touching this area during fast forwarding or fast backwarding plays a source.
2	Displays Easy Control Screen. Touching this area during fast forwarding or fast backwarding plays a source.
3	Reverse search.
4	Forward search.
➡	Fast Forwards when flicked from 1 to 4 .
⬅	Fast Backwards when flicked from 1 to 3 .

Easy Control Screen

1 Press **[SRC]** to display the playback screen.

2 Touch the 2 area on playback screen.

3 Touch any button or area on the screen.
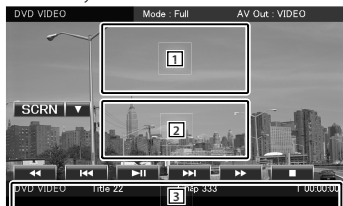
Button/ Area	General operation
1 , 2	Switches to the Playback Screen.
3	Displays the Source Control Screen.
▶❚❚	Plays or pauses.
■	Stops playing. When touched twice, the disc is played from its beginning when you play it the next time.
❙◀◀ / ▶▶❙	Searchs the previous/next content.
◀◀ / ▶▶	Fast forwards or Fast backwards.

Listening to the Radio

Selecting a Radio source

1 Press **[SRC]** to display the Source Control screen. When a video screen is displayed, press **[SRC]**.

2 Touch **[Menu]** on Source Control screen.

Top Menu

NAV   iPod   DISC

Audio Control   SOURCE SETUP   TV   TUNER

Menu   TEL   IN   VIDEO   DUAL

3 Touch **[TUNER]**.

Control the station you are listening to on the source control screen

TUNER

FM1   Preset1   87.9MHz

PS   ABCDIFG HIJKLMN OPQRSTU

TI AM FM

Menu

Button	General operation
FM	Switches to the FM1/2/3 band.
AM	Switches to the AM band.
◄◄ / ►►	Tunes in a station.
TI	Turns the Traffic Information function On or Off.
⬅	Opens the multi function bar

Multi Function

#/# ▼	Switches the multi function display.
P1 – P6	To recall the memorized station.
SEEK	Switches the Seek mode.
AME	Selects the Auto Memory mode.
PTY	Searches station by program type.
MONO	Select the Monaural reception.
4Line/ 2Line	Switches the number of lines displayed in the Information Display.
LO.S	Turns the Local Seek function ON or Off.
INFO	Displays Radio Text screen.
✕	Closes the multi function bar.

Station Preset Memory

1 Touch **[◄◄]**/ **[►►]** to select the station you want to store in memory.

2 Touch **[ ]** to open the multi function bar.

3 Touch **[P1]** – **[P6]** for at least 2 seconds.

Auto Memory

1 Touch **[FM]**/ **[AM]** to select the band.

2 Touch **[ ]** to open the multi function bar.

3 Touch **[AME]**.

4 Touch **[◄◄]**/ **[►►]** to start Auto Memory. Auto Memory terminates when 6 stations are stored or when all stations are tuned in.

Recalling the stations in the memory

1 Touch **[ ]** to open the multi function bar.

2 Touch **[P1]** – **[P6]**.

Hands-free phoning

Registering your cellphone with this unit

1 By operating the cellphone, register the hands-free unit (pairing). Select "DNX9280BT" from the list of found units.

2 Enter the PIN code of this unit from the cellphone.
The PIN code of this unit is "0000" by default.
When registration of your cellphone is complete, the phone book of the cellphone is automatically downloaded to this unit. (If the phone book has not been downloaded to this unit, operate the cellphone to download it.)

Answering a Phone Call
Touch **[📞]**.

Disconnecting a Call
Touch **[📵]**.

Calling a number in the Phone Book
To use the phone book it must have been downloaded from the cell phone in advance.

1 Press **[TEL]** to display the Hands-Free Control screen.

2 Touch **[Phonebook]**.

3 Touch **[1]** – **[Z]** to select initial of name.

4 Touch **[(Name)]** to select phone number.

5 Touch **[(Type: phone number)]**.

6 Touch **[📞]** to dial.

Calling by Entering a Phone Number

1 Press **[TEL]** to display the Hands-Free Control screen.

2 Touch **[Direct Number]**.

3 Enter a phone number with number keys.

4 Touch **[📞]** to dial.

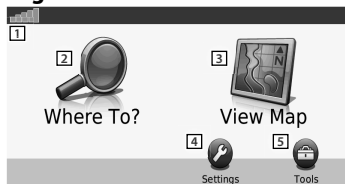## Making a Call Using Call Records

1 Press **[TEL]** to display the Hands-Free Control screen.

2 Touch **[Outgoing Calls]**, **[Incoming Calls]**, or **[Missed Calls]**.

3 Select the phone number from the list.

4 Touch **[📞]** to dial.

Navigation System

Using the Navigation System
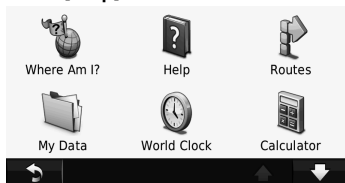
1 Press **[NAV]** to use the navigation system.

Using the Main Menu

1	GPS satellite strength.
2	Touch to find a destination.
3	Touch to view the map.
4	Touch to adjust the settings.
5	Touch to use the tools such as ecoRoute and Help.

Help When You Need It

1 Touch **[Tools]** on Main Menu screen.

2 Touch **[Help]**.

3 Touch **[Search]** to search the Help topics for a keyword.

Finding Points of Interest

1 Touch **[Where To?]** on Main Menu screen.

2 Touch **[Points of Interest]**.

3 Select a category and a subcategory.

4 Select a destination, and touch **[Go!]**.

• To enter letters contained in the name, touch **[Where To?]** > **[Points of Interest]** > **[Spell Name]**.

• To search for a location in a different area, touch **[Where To?]** > **[Near]**.

Following Your Route

Your route is marked with a magenta line. As you travel, your navigation system guides you to your destination with voice prompts, arrows on the map, and directions at the top of the map. If you depart from the original route, your navigation system recalculates the route.

Touch and drag the map to view a different area of the map.

A speed limit icon could appear as you travel on major roadways.

Notes

The speed limit icon feature is for information only and does not replace the driver's responsibility to abide by all posted speed limit signs and to use safe driving judgment at all times. Garmin and Kenwood will not be responsible for any traffic fines or citations that you may receive for failing to follow all applicable traffic laws and signs.
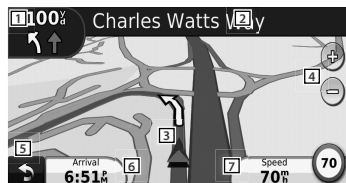
1	Touch to view the Next Turn page or the junction view page, when available.
2	Touch to view the Turn List page.
3	Touch to view the Where Am I? page.
4	Touch [+] and [−] to zoom in and out.
5	Touch to return to the Main menu.
6	Touch to display a different data field.
7	Touch to view the Trip Computer.

Adding a Stop

1 While navigating a route, touch [ ].

2 Touch **[Where To?]**.

3 Search for the extra stop.

4 Touch **[Go!]**.

5 Touch **[Add as Via Point]** to add this stop before your final destination.

Taking a Detour

1 While navigating a route, touch [].

2 Touch [◀▶].

About Traffic

With an FM traffic receiver, the navigation system can receive and use traffic information. When a traffic message is received, you can see the event on the map and change your route to avoid the incident.

The FM TMC subscription activates automatically after your navigation system acquires satellite signals while receiving traffic signals from the service provider. Go to www.garmin.com/fmtraffic for more information.

> **Notes**
> Garmin and Kenwood are not responsible for the accuracy or timeliness of the traffic information.

Manually Avoiding Traffic on Your Route

1 From the map, touch [].

2 Touch **[Traffic On Route]**.

3 If necessary, touch the arrows to view other traffic delays on your route.

4 Touch **[Avoid]**.

Viewing the Traffic Map

The traffic map shows color-coded traffic flow and delays on nearby roads.

1 From the map, touch [].

2 Touch **[Traffic Map]** to view the traffic incidents on a map.

More Information

For more information about your navigation system, select **[Tools]** > **[Help]**.

Download the latest version of the instruction manual from manual.kenwood.com/edition/im332/.

Updating the Software

To update the navigation system software, you must have an SD card, an SD card reader, and an Internet connection.

1 Go to www.garmin.com/Kenwood.

2 Find your model and Select Software Updates > Download.

3 Read and accept the terms of the Software License Agreement.

4 Follow the instructions on the Web site to complete the installation of the update software.

Updating Maps

You can purchase updated map data from Gamin or ask your Kenwood dealer or Kenwood service center for details.

1 Go to www.garmin.com/Kenwood.

2 Select Order Map Updates for your Kenwood unit.

3 Follow the web site instructions to update your map.

Basic Operations of Remote Control

Battery installation

Use two "AAA"/"R03"-size batteries.
Insert the batteries with the + and − poles aligned properly, following the illustration inside the case.
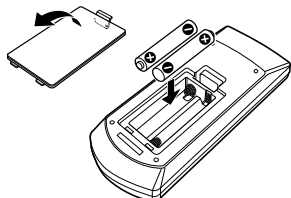

Notes

If the Remote Controller operates only over shorter distances or does not operate at all, it is possible that the batteries are depleted. In such instances, replace the both batteries with new ones.

⚠ CAUTION

- Put the Remote Controller in a place where it will not move during braking or other operations. A dangerous situation could result, if the Remote Controller falls down and gets wedged under the pedals while driving.
- Do not leave the battery near fire or under direct sunlight. A fire, explosion or excessive heat generation may result.
- Do not recharge, short, break up or heat the battery or place it in an open fire. Such actions may cause the battery to leak fluid. If spilled fluid comes in contact with your eyes or on clothing, immediately rinse with water and consult a physician.
- Place the battery out of reach of children. In the unlikely event that a child swallows the battery, immediately consult a physician.
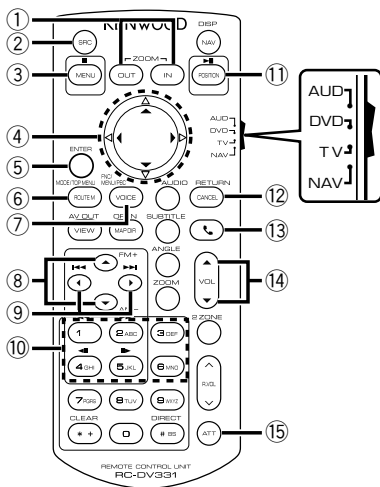
Remote Controller mode switch

- **AUD mode:** Switch to this mode when controlling a selected source or tuner source, etc.
- **DVD mode:** Switch to this mode when playing DVDs or CDs etc. with the player integrated in this unit.
- **TV mode:** Switch to this mode when controlling TV.
- **NAV mode:** Switch to this mode when controlling Navigation unit.

Notes

When controlling a player that is not integrated in the unit, select "AUD" mode.

Common operations (AUD mode)

- Volume control: ⑭ **[VOL ▲ / ▼]**
- Source select: ② **[SRC]**
- Volume reduce: ⑮ **[ATT]**
- When a call comes in, it answers the call: ⑬ **[📞]**

In Radio source (AUD mode)

- Band select: ⑧ **[FM+]**/**[AM−]**
- Station select: ⑨ **[I◄◄]**/**[►►I]**
- Recall preset stations: ⑩ **[1]** — **[6]**

In DVD/VCD source (DVD mode)

- Track search: ⑨ **[I◄◄]**/**[►►I]**
- Pause/Play: ⑪ **[►II/ POSITION]**
- Stop: ③ **[■/ MENU]**
- DVD Top Menu: ⑥ **[ROUTE M]**
- DVD Menu: ⑦ **[VOICE]**

In CD/ DVD media/ USB source (AUD mode)

- Music select: ⑨ **[I◄◄]**/**[►►I]**
- Folder select: ⑧ **[FM+]**/**[AM−]**
- Pause/Play: ⑪ **[►II/ POSITION]**

In iPod source (AUD mode)

- Music select: ⑨ **[I◄◄]**/**[►►I]**
- Pause/Play: ⑪ **[►II/ POSITION]**

In TV source (TV mode)

- Band select: ⑧ **[FM+]**
- Channel select: ⑨ **[I◄◄]**/**[►►I]**
- Recall preset stations: ⑩ **[1]** — **[6]**

In Navigation (NAV mode)

- Scrolls the map, or moves the cursor: ④ **Cursor key** [▲/ ▼/ ◄/ ►]
- Performs the selected function: ⑤ **[ENTER]**
- Zooms in or out the navigation map: ① **[ZOOM OUT/ IN]**
- Displays Main menu: ③ **[■/ MENU]**
- Displays previous screen: ⑫ **[CANCEL]**
- Displays the current position: ⑪ **[►II/ POSITION]**

Accessories

① 1

② 1

③ 1

④ 1

⑤ 2

⑥ 1

⑦ 5 m.........1

⑧ 1

⑨ 3 m.........1

⑩ 3 m.........1

⑪ 1
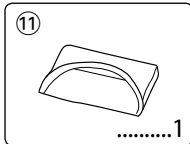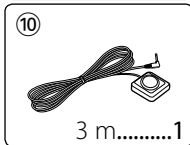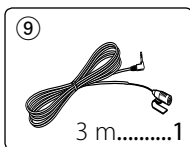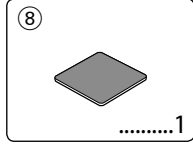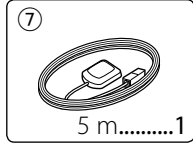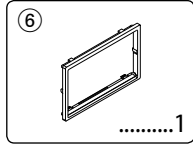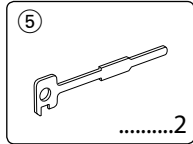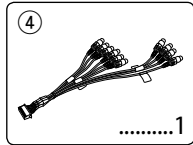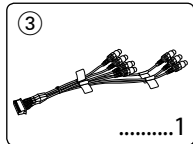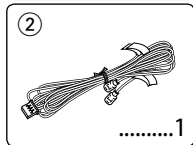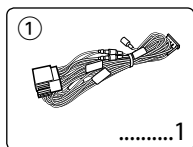
Installation Procedure

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 wire connections for each unit.
3. Connect the wire 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.
10. Perform the Initial Setup. (Refer to the Instruction Manual.)

⚠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.
• Do not cut out the fuse from the ignition wire (red) and the battery wire (yellow). The power supply must be connected to the wires via the fuse.

Acquiring GPS Signals
The first time you turn on DNX9280BT, you must wait while the system acquires satellite signals for the first time. This process could take up to several minutes. Make sure your vehicle is outdoors in an open area away from tall buildings and trees for fastest acquisition. After the system acquires satellites for the first time, it will acquire satellites quickly each time thereafter.

About the Front Panel
When removing the product from the box or installing it, the front panel may be positioned at the angle shown in (Fig. 1). This is due to the characteristics of a mechanism the product is equipped with.

If the program that is activated when the product is first powered on works properly, the front panel will automatically move into the position (initial setting angle) shown in (Fig. 2).

(Fig. 1)   (Fig. 2)

After the Installation

After the installation, perform the Initial Setup (page 6).

⚠

- Mounting and wiring this product requires skills and experience. For safety's sake, leave the mounting and wiring work to professionals.
- 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 use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.
- If the power is not turned ON ("PROTECT" is displayed), the speaker wire may have a short-circuit or touched the chassis 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.
- This unit has the cooling fan (page 25) to decrease the internal temperature. Do not mount the unit in a place where the cooling fan of the unit are blocked. Blocking these openings will inhibit the cooling of the internal temperature and result in malfunction.
- Do not press hard on the panel surface when installing the unit to the vehicle. Otherwise scars, damage, or failure may result.
- Reception may drop if there are metal objects near the Bluetooth antenna.

Bluetooth antenna unit
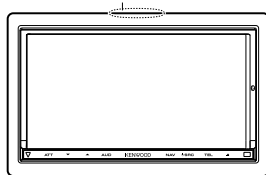
⚠ **CAUTION**

Install this unit in the console of your vehicle.

Do not touch the metal part of this unit during and shortly after the use of the unit. Metal part such as the heat sink and enclosure become hot.

Connection

Connector A

Black (Ground wire)

Yellow (Battery wire)

```
 8  6  4  2
 7  5  3  1

 8  6  4  2
 7  5  3  1
```

Red (Ignition wire)

Connector B

Antenna Cord

FM/AM antenna input (JASO)

Orange/White

Orange/White (Dimmer control wire)

ILLUMI

Connect to the vehicle's parking brake detection switch harness.

Light Green (Parking sensor wire)

PRK SW

For safety reasons, be sure to connect the parking sensor.

Connect to vehicle's reverse lamp harness when using the optional rear view camera.

To steering remote

To use the steering wheel remote control feature, you need an exclusive remote adapter (not supplied) matches your car. When this terminal is not in use, leave its cap on.

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

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.

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

Bluetooth Microphone (Accessory ⑨)
(see page 29)

Voice Control Switch
(Accessory ⑩) (see page 29)

Cooling fan

GPS Antenna (Accessory ⑦)
(see page 29)

FUSE (15A)

Accessory ①

Purple/White (Reverse sensor wire)

REVERSE

Light Blue/Yellow (Steering remote control wire)

REMOTE CONT | STEERING WHEEL REMOTE INPUT

Brown (Mute control wire)

MUTE

Blue/White (Power control/ Antenna control wire)

ANT. CONT | P.CONT

Connecting Wires to Terminals

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-6	Orange/White	Dimmer
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 (−)

Speaker Impedance
: 4 – 8 Ω

⚠WARNING
Connecting the ISO Connector

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.
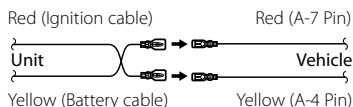
The default connection for the wiring harness is described in $\boxed{1}$ below. If the ISO connector pins are set as described in $\boxed{2}$, make the connection as illustrated.

Please be sure to reconnect the cable as shown $\boxed{2}$ below to install this unit to the **Volkswagen** vehicles etc.

$\boxed{1}$ (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.

Red (Ignition cable)　　　　　Red (A-7 Pin)

Unit　　　　　　　　　　　Vehicle

Yellow (Battery cable)　　　Yellow (A-4 Pin)
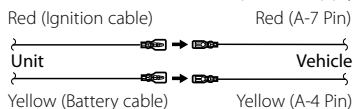
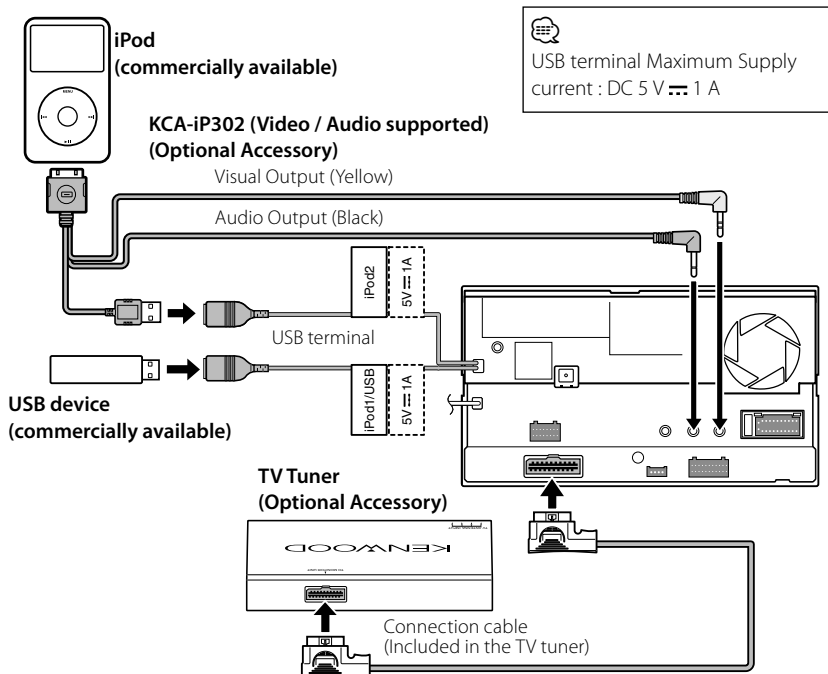$\boxed{2}$ The A-7 pin (red) of the vehicle's ISO connector is connected to the constant power supply, and the A-4 pin (yellow) is linked to the ignition.
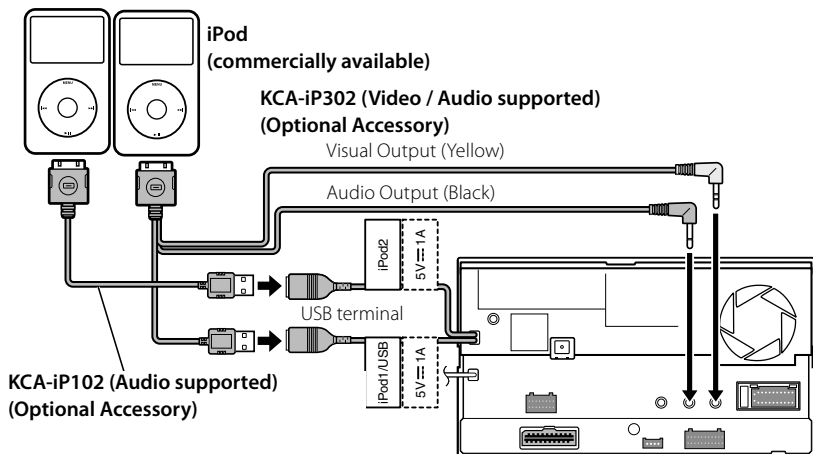
Red (Ignition cable)　　　　　Red (A-7 Pin)

Unit　　　　　　　　　　　Vehicle

Yellow (Battery cable)　　　Yellow (A-4 Pin)

System Connection

iPod2

USB terminal

5V⎓1A

iPod1/USB

5V⎓1A

◄ **iPod (commercially available)**

◄ **iPod/ USB device (commercially available)**

Audio input (iPod/AV Input 3 switchable)
Resistance-free stereo type mini plug (3.5φ)

Visual input (iPod/AV Input 3 switchable)
Resistance-free mini plug (3.5φ)

Accessory ③

Accessory ②

Accessory ④

To Camera control terminal
Green/Red — CAM +

Green/White — CAM –

To Relay Box
RELAY 1 — RELAY 2

Blue/Red

Blue/Red

AV OUT — **Audio/Visual Output**
• Visual output (Yellow)
• Audio left output (White)
• Audio right output (Red)

AV IN1 — **Audio/Visual Input**
• Visual input (Yellow)
• Audio left input (White)
• Audio right input (Red)

AV IN 2 — **Audio/Visual Input**
• Visual input (Yellow)
• Audio left input (White)
• Audio right input (Red)

REAR VIEW CAMERA — **Rear View Camera Input**
• Visual input (Yellow)

FRONT — **Front Preout**
• Audio left output (White)
• Audio right output (Red)

REAR — **Rear Preout**
• Audio left output (White)
• Audio right output (Red)

SUB WOOFER — **Subwoofer Preout**
• Audio left output (White)
• Audio right output (Red)

CENTER — **Center Preout**

Optional Accessory Connection

iPod
(commercially available)

KCA-iP302 (Video / Audio supported)
(Optional Accessory)

Visual Output (Yellow)

Audio Output (Black)

iPod2 5V ⎓ 1A

USB terminal

iPod1/USB 5V ⎓ 1A

USB device
(commercially available)

⊜
USB terminal Maximum Supply current : DC 5 V ⎓ 1 A

TV Tuner
(Optional Accessory)

KENWOOD

Connection cable
(Included in the TV tuner)

When Connecting Two iPods

iPod
(commercially available)

KCA-iP302 (Video / Audio supported)
(Optional Accessory)

Visual Output (Yellow)

Audio Output (Black)

iPod2 5V ⎓ 1A

USB terminal

iPod1/USB 5V ⎓ 1A

KCA-iP102 (Audio supported)
(Optional Accessory)

Installing the GPS Antenna

GPS antenna is installed inside of the car. It should be installed as horizontally as possible to allow easy reception of the GPS satellite signals.

To mount the GPS antenna inside your vehicle:

1. Clean your dashboard or other surface.
2. Peel the backing off of the adhesive on the bottom of the metal plate (accessory ⑧).
3. Press the metal plate (accessory ⑧) down firmly on your dashboard or other mounting surface. You can bend the metal plate (accessory ⑧) to conform to a curved surface, if necessary.
4. Place the GPS antenna (accessory ⑦) on top of the metal plate (accessory ⑧).

Accessory ⑦

Accessory ⑧

⚠
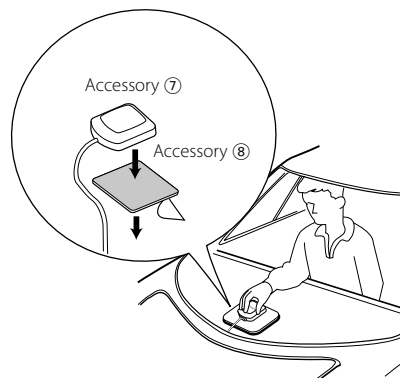
• Depending on the type of car, reception of the GPS satellite signals might not be possible with an inside installation.
• The GPS antenna should be installed at a position that is spaced at least 12 inch (30 cm) from cellular phone or other transmitting antennas. Signals from the GPS satellite may be interfered with by these types of communication.
• Painting the GPS antenna with (metallic) paint may cause a drop in performance.

Installing the Push-To-Talk Switch and the Microphone Unit

1. Check the installation position of the microphone (accessory ⑨) and the Push-To-Talk switch (accessory ⑩).
2. Remove oil and other dirt from the installation surface.
3. Install the microphone.
4. Wire the microphone cable up to the unit with it secured at several positions using tape or the like.

Accessory ⑨

Accessory ⑩
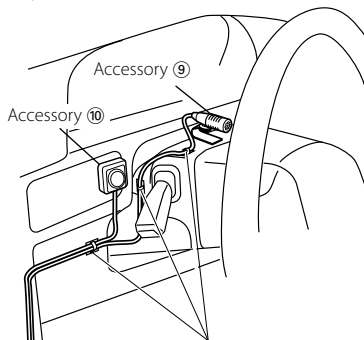
Fix a cable with a commercial item of tape.
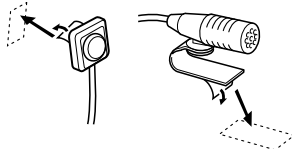
Peel the release coated paper of double-face adhesive tape to fix on the place shown above.

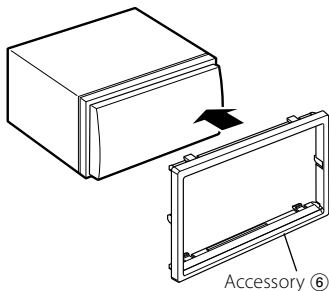Adjust the direction of the microphone to the driver.

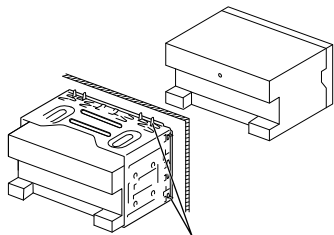Install the microphone as far away as possible from the cell-phone.

Installation for Monitor/Player Unit

Installing the Escutcheon

1. Attach accessory ⑥ to the unit.

Accessory ⑥

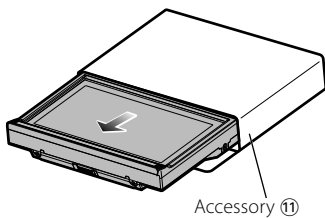## Installing the Monitor/Player Unit

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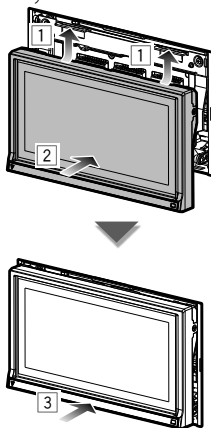
⁂

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

Attaching the monitor panel

Accessory ⑪

Hold the monitor panel securely so as not to drop it accidentally.

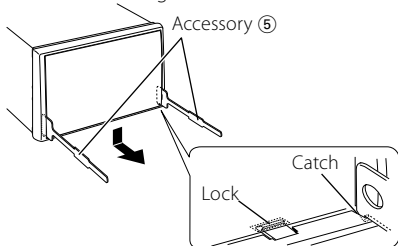Fit the monitor panel onto the attaching plate until it is firmly locked.

Removing Monitor/Player Unit
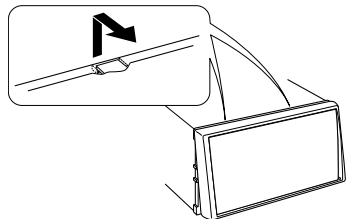
Removing the Hard Rubber Frame (escutcheon)

1. Engage the catch pins on the removal tool ⑤ and remove the two locks on the lower level.
   Lower the frame and pull it forward as shown in the figure.

Accessory ⑤

Catch

Lock

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

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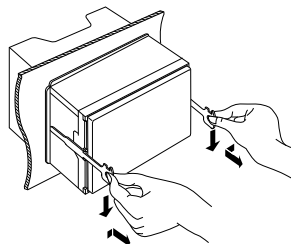
Removing the Unit

1. Remove the hard rubber frame by referring to the removal procedure in the section <Removing the Hard Rubber Frame>.

2. Insert the two removal tools ⑤ deeply into the slots on each side, as shown.
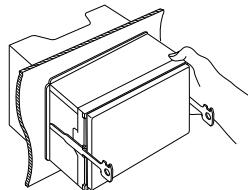
Accessory ⑤
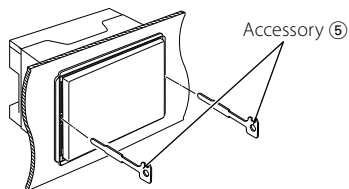
3. Lower the removal tool toward the bottom, and pull out the unit halfway while pressing towards the inside.

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

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

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