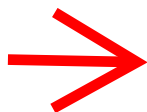


# KENWOOD

## KOS-L702



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### INSTRUCTION MANUAL

MONITEUR ECRAN LARGE TACTILE ▶ page 12-21

### MODE D'EMPLOI

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### MANUAL DE INSTRUÇÕES

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### 使用说明书

Kenwood Corporation

**Take the time to read through this instruction manual.**

**Familiarity with installation and operation procedures will help you obtain the best performance from your new monitor.**

**For your records**

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your Kenwood dealer for information or service on the product.  
Model KOS-L702 Serial number \_\_\_\_\_

**US Residence Only**

**Register Online**

Register your Kenwood product at  
[www.Kenwoodusa.com](http://www.Kenwoodusa.com)



## Safety precautions

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### **▲ 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.
- Do not watch or fix your eyes on the unit's display when you are driving for any extended period.
- Mounting and wiring this product requires skills and experience. For safety's sake, leave the mounting and wiring work to professionals.
- Do not touch the liquid crystal fluid if the LCD is damaged or broken due to shock. The liquid crystal fluid may be dangerous to your health or even fatal.

If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

### **▲ CAUTION**

#### **To prevent damage to the machine, take the following precautions:**

- 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.
- 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 use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.
- You cannot view video pictures whilst the vehicle is moving. To enjoy video pictures, find a safe place to park and engage the parking brake.

### **FCC WARNING**

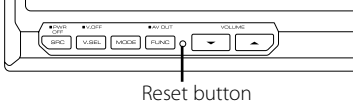
This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

<b>NOTE</b>
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This Class B digital apparatus complies with Canadian ICES-003.

## Notes

- 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 illustrations of the display and the panel appearing in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the display in the illustrations may differ from what appears on the display on the actual equipment, and some of the illustrations on the display may represent something impossible in actual operation.

### Cleaning the 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 erase characters.

### Screen brightness during low temperatures

When the temperature of the unit falls such as during winter, the liquid crystal panel's screen will become darker than usual. Normal brightness will return after using the monitor for a while.

### A/V controller you can control from the KOS-L702 (As of March, 2007):

KOS-V500, KOS-V1000

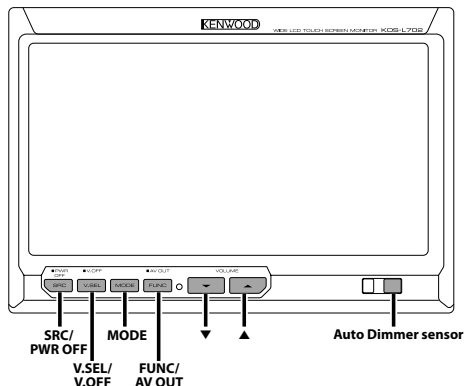
### Information on Disposal of Old Electrical and Electronic Equipment (applicable for EU countries that have adopted separate waste collection systems)



Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste.

Old electrical and electronic equipment should be recycled at a facility capable of handling these items and their waste byproducts. Contact your local authority for details in locating a

recycle facility nearest to you. Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.



Controlling of optional A/V controllers is possible by touching the screen of this unit.

Functions which can be controlled vary depending on the A/V controllers. Refer to the instruction manual of the connected A/V controller for more information.

## Power

### Turning ON the Power

Press the [SRC] button.

### Turning OFF the Power

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

## Volume

### Increasing Volume:

Press the [▲] button.

### Decreasing Volume:

Press the [▼] button.

## Switches the audio source

### Press the [SRC] button.

Each time the button is pressed, the audio source is changed.



- Refer to <Switches the audio source> of <Basic Operations> of the A/V controller's manual.

## Switches the video source

### Press the [V.SEL] button.

Each time the button is pressed, the video source is changed.



- Refer to <Switches the video source> of <Basic Operations> of the A/V controller's manual.

## Switching Screen Mode

Press the [MODE] button.

Each time the button is pressed, the screen mode switches as follows:

Display	Setting
"Full"	Full picture mode
"Zoom"	Zoom picture mode
"Just"	Justify picture mode
"Normal"	Normal picture mode



- Refer to <Monitor Setup> of the A/V controller's manual.
- When you select the Menu, Easy Control screen, or Navigation, the display is shown in the full-size display mode automatically. The screen mode of these displays cannot be changed.

## Switches the function screen

Switches to the control screens such as Source Control Screen.

Press the [FUNC] button.

Each time the button is pressed, the function control screen is changed.

Setting
Picture & Easy Control Panel
Source Control Screen
Picture Panel (OFF)



- Refer to <Switches the function screen> of <Basic Operations> of the A/V controller's manual.

## Switching the Display off mode

You can set the display off mode for the monitor.

Press the [V.SEL] button for at least 1 second.

**Exit the Display off mode**

Press any button.

Press the button other than the [▲] and [▼] buttons.

## Switches AV OUT source

Selects an AV source to be output at the "AV OUTPUT" terminals.

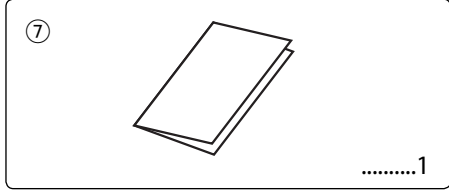
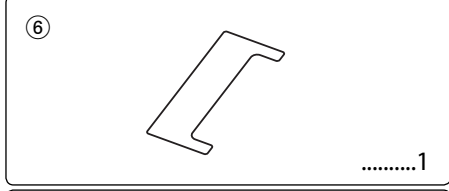
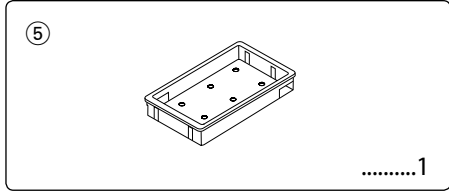
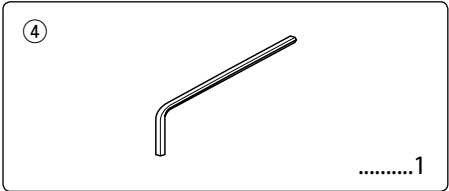
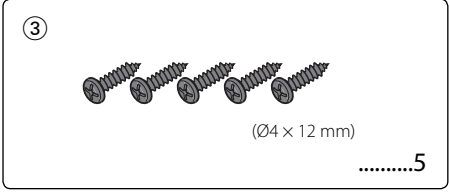
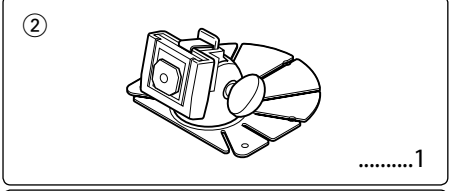
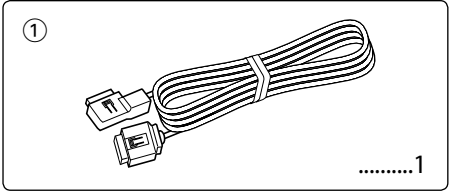
Press the [FUNC] button for at least 1 second.

Each time the button is pressed for at least 1 second, the AV output is changed.



- Refer to <Switches AV OUT source> of <Basic Operations> of the A/V controller's manual.

# Accessories



# Installation Procedure

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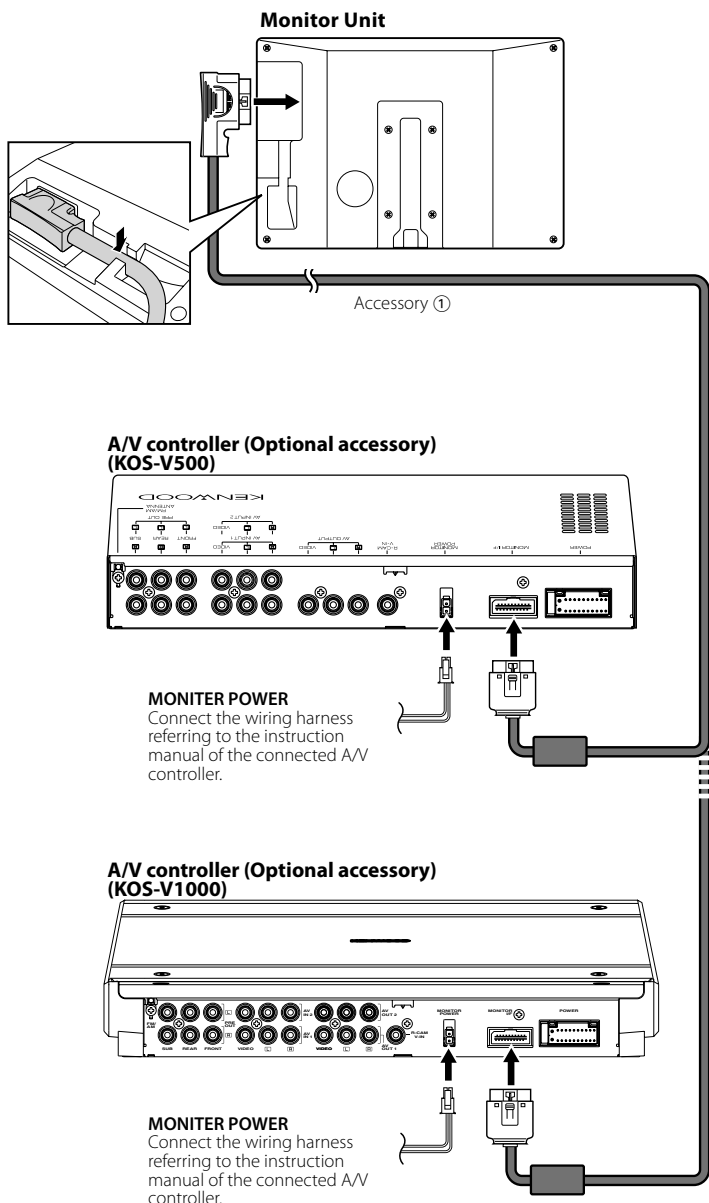
1. To prevent short circuits, remove the key from the ignition and disconnect the ⊖ terminal of the battery.
2. Make the proper input and output cable connections for each unit.
3. Connect the wiring harness connector to the unit.
4. Install the unit in your car.
5. Reconnect the ⊖ terminal of the battery.
6. Press the reset button. (page 3)

## ▲ WARNING

- To prevent shorting, disconnect the battery cable from the negative terminal of the battery during installation.
- Be sure to firmly stabilise this product. Do not install it in a location which is not stable.
- Follow the installation and wiring procedures described in this manual. Improper wiring or modified installation can not only result in malfunction or damage to the unit but may also result in an accident.
- **Do not install the unit in the following locations.**
  - A location which interferes with the operation of the air bag system.
  - A location which is not made of plastic.
    - ➔ Installing on leather, wood or cloth may damage the surface.
  - A location subject to direct sunlight, subject to the air from the air conditioner, or subject to moisture or high temperature.
    - ➔ This may cause deformation of the monitor unit.
- If you are not going to install the unit using the supplied monitor stand, be sure to use a commercially available monitor stand. (Mounting holes for such a stand are located on the bottom of the monitor unit.)



- If the fuse blows, first make sure that the wires have not caused a short circuit, then replace the old fuse with one with the same rating.
- Do not let unconnected wires or terminals touch metal on the car or anything else conducting electricity. To prevent short circuits do not remove the caps from unused terminals or from the ends of the unconnected wires.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Insulate unconnected wires with vinyl tape or other similar material.
- Thoroughly wipe away oil and other dirt from the installation surface.  
Please avoid installation on uneven surfaces.



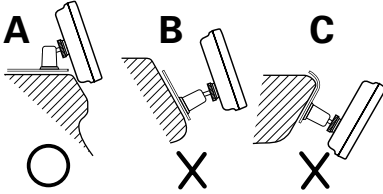
# Installation

## Installation for Monitor Unit

### Installation location and cleaning

Select for installation a location where the stand can be placed completely horizontal or where the front edge of the support (petal-shaped part) can be attached horizontally as shown in Figure A.

Do not install in locations where the entire support is at a diagonal such as in Figure B or where the monitor unit is facing down such as in Figure C.



- Thoroughly wipe away any dust or grease from the installation location using a cloth which has been soaked in a neutral cleaning agent and wrung out. Attach the stand after allowing the installation location to dry.

### Installation for Monitor Unit

**1** Install the shoe on the rear of the TV monitor temporarily using the supplied hexagon wrench (Accessory ④).



- When adjusting the fixing screw of the shoe, use the hexagon wrench (Accessory ④) that came with the product. Using other hexagon wrenches may damage the screw.
- 2** Bend the stand support to conform to the shape of the installation location.
- 3** Adjust the shape of the support so that there is no rattling or gap when the stand is placed on the support.
- 4** Peel off the protective strip from the double-sided tape on the bottom of the stand and securely attach the stand.



- Do not attach the double-sided tape more than once or touch the adhesive with your fingers as this will weaken its adhesive strength.
- If the temperature of the surface of the installation location is low, warm it up using a heater or other means before attaching the stand. Low temperature may weaken the adhesive strength of the tape.
- The supplied stand is specially intended for this product. Do not use it with another monitor.

**5** Secure the stand using the supplied tapping screw (Accessory ③).

**6** After attaching the stand, allow it to sit undisturbed for 24 hours. Take care not to apply any force to the stand during this time.

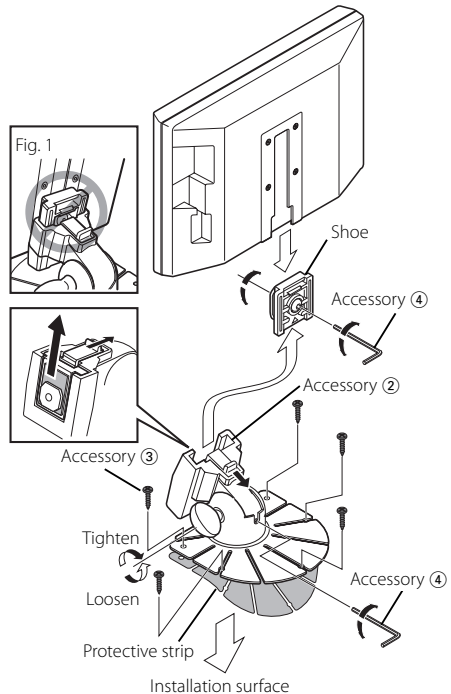
**7** Insert the shoe of the monitor unit into the bracket (Accessory ②).



- Insert the shoe into the bracket (Accessory ②) as far as it goes. (Fig. 1)

**8** Adjust the height, horizontal and vertical angle of the monitor unit, and securely tighten the installation screws using the supplied hexagon wrench (Accessory ④).

You can also adjust the monitor unit's forward position by loosening the angle adjustment knobs and adjusting the angle of the monitor unit's installation stand.



## Installation

### Installation for Monitor Unit (For Headrest)

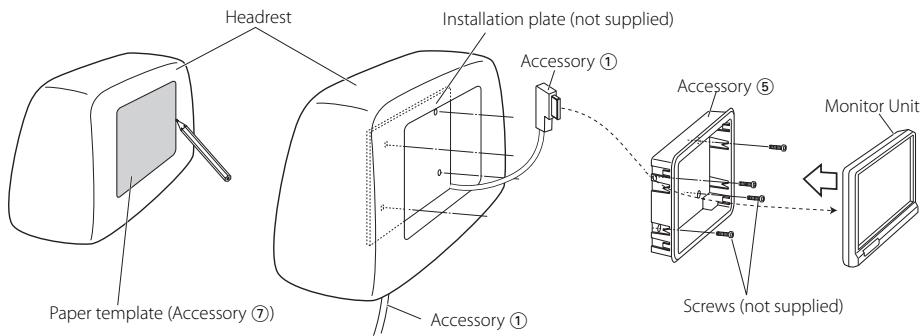
Mounting and wiring this product requires skills and experience. For safety's sake, leave the mounting and wiring work to professionals.

#### Before mounting the monitor to the headrest:

- Perform the required external connections first (Accessory ①).
- Using the supplied paper template (Accessory ⑦), mark the area to be cut out of the headrest, then carefully cut it.

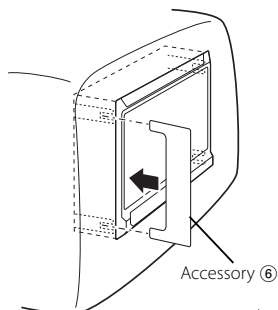
**1** Connect Monitor and system cord (Accessory ①).

**2** Install the monitor unit in the bracket (Accessory ⑤).



### Removing the Monitor Unit (For Headrest)

**1** Insert the removal tool (Accessory ⑥) deeply into the slots on each side, as shown.



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

# Troubleshooting Guide

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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.

**? The power does not turn ON.**

- ✓ The motor is not attached to the bracket securely.  
E3\* Attach the motor to the bracket until it clicks.

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

- ✓ The computer chip in the unit is not functioning normally.  
E3\* Press the reset button on the unit (page 3).



- Refer to the instruction manual of the connected A/C controller for troubleshooting on the operation.

## Specifications

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Specifications subject to change without notice.

### Monitor Section

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- Screen size
  - : 6.95 inches wide
  - : 156.2(W) × 82.4(H) × 176.0(Diagonal) mm
  - : 6-1/8(W) × 3-1/4(H) inches
- Display system
  - : Transparent TN LCD panel
- Drive system
  - : TFT active matrix system
- Number of pixels
  - : 336,960 pixels (480 H × 234 V × RGB)
- Effective pixels
  - : 99.99%
- Pixel arrangement
  - : RGB striped arrangement
- Back lighting
  - : Cold cathode tube
- Colour system
  - : NTSC/ PAL
- Analog RGB input (13P)
  - : 0.7 Vp-p/ 75 Ω

### General

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- Operating voltage
  - : 14.4 V DC (11 - 16 V)
- Current consumption
  - : 1.5 A
- Operational temperature range
  - : -10°C to +60°C
- Storage temperature range
  - : -20°C to +85°C
- Dimensions (W × H × D)
  - : 177 × 122 × 34 mm
  - : 7 × 4-6/8 × 1-5/16 inch
- Weight
  - : 460 g (1.01 lbs)

Although the effective pixels for the liquid crystal panel is given as 99.99% or more, 0.01% of pixels may not light or may light incorrectly.