



# PXA-H900

## Multimedia Manager™

**Guide for Installation and Connections**

**English**

**Hinweise über die Installation und Anschlüsse**

**Deutsch**

**Guide d'installation et de connexions**

**Français**

**Guía de instalación y conexiones**

**Español**

**Guida all'installazione ed ai collegamenti**

**Italiano**

**Vägledning för montering och anslutningar**

**Svenska**



# PRECAUTIONS

## GUIDE FOR INSTALLATION AND CONNECTIONS

- Please read this GUIDE FOR INSTALLATION AND CONNECTIONS and the OWNER'S MANUAL thoroughly to familiarize yourself with each control and function. We at ALPINE hope that your new PXA-H900 will give you many years of listening enjoyment. In case of problems when installing your unit, please contact your authorized ALPINE dealer.

### Points to Observe for Safe Usage

- Read this manual carefully before starting operation and use this system safely. We cannot be responsible for problems resulting from failure to observe the instructions in this manual.
- This manual uses various pictorial displays to show how to use this product safely and to avoid harm to yourself and others and damage to your property. Here is what these pictorial displays mean. Understanding them is important for reading this manual.
- **Meaning of displays**

 <b>Warning</b>	This symbol means important instructions. Failure to heed them can result in serious injury or death.
 <b>Caution</b>	This symbol means important instructions. Failure to heed them can result in injury or property damage.

### **Warning**

**DO NOT DISASSEMBLE OR ALTER.** Doing so may result in an accident, fire or electric shock.

**USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES.** Failure to do so may result in fire or electric shock.

**MAKE THE CORRECT CONNECTIONS.** Failure to make the proper connections may result in fire or product damage.

**USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.** (Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

**BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL.** Failure to do so may result in electric shock or injury due to electrical shorts.

**DO NOT SPLICE INTO ELECTRICAL CABLES.** Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and result in fire or electric shock.

**DO NOT DAMAGE PIPE OR WIRING WHEN DRILLING HOLES.** When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, fuel lines, tanks or electrical wiring. Failure to take such precautions may result in fire.

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**DO NOT USE BOLTS OR NUTS IN THE BRAKE OR STEERING SYSTEMS TO MAKE GROUND CONNECTIONS.** Bolts or nuts used for the brake or steering systems (or any other safety-related system), or tanks should NEVER be used for installations or ground connections. Using such parts could disable control of the vehicle and cause fire etc.

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**DO NOT INSTALL THE MONITOR NEAR THE PASSENGER SEAT AIR BAG.** If the unit is not installed correctly the air bag may not function correctly and when triggered the air bag may cause the monitor to spring upwards causing an accident and injuries.

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**DO NOT BLOCK VENTS OR RADIATOR PANELS.** Doing so may cause heat to build up inside and may result in fire.

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**KEEP SMALL OBJECTS SUCH AS BATTERIES OUT OF THE REACH OF CHILDREN.** Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

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**DO NOT INSTALL IN LOCATIONS WHICH MIGHT HINDER VEHICLE OPERATION, SUCH AS THE STEERING WHEEL OR SHIFT LEVER.** Doing so may obstruct forward vision or hamper movement etc. and results in serious accident.

## **Caution**

**HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS.** The wiring and installation of this unit requires special technical skill and experience. To ensure safety, always contact the dealer where you purchased this product to have the work done.

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**USE SPECIFIED ACCESSORY PARTS AND INSTALL THEM SECURELY.** Be sure to use only the specified accessory parts. Use of other than designated parts may damage this unit internally or may not securely install the unit in place. This may cause parts to become loose resulting in hazards or product failure.

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**ARRANGE THE WIRING SO IT IS NOT CRIMPED OR PINCHED BY A SHARP METAL EDGE.** Route the cables and wiring away from moving parts (like the seat rails) or sharp or pointed edges. This will prevent crimping and damage to the wiring. If wiring passes through a hole in metal, use a rubber grommet to prevent the wire's insulation from being cut by the metal edge of the hole.

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**DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST.** Avoid installing the unit in locations with high incidence of moisture or dust. Moisture or dust that penetrates into this unit may result in product failure.

## Precautions

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- Be sure to disconnect the cable from the (–) battery post before installing your PXA-H900. This will reduce any chance of damage to the unit in case of a short-circuit.
- Be sure to connect the color coded leads according to the diagram. Incorrect connections may cause the unit to malfunction or damage to the vehicle's electrical system.
- When making connections to the vehicle's electrical system, be aware of the factory installed components (e.g. on-board computer). Do not tap into these leads to provide power for this unit. When connecting the PXA-H900 to the fuse box, make sure the fuse for the intended circuit of the PXA-H900 has the appropriate amperage. Failure to do so may result in damage to the unit and/or the vehicle. When in doubt, consult your ALPINE dealer.
- The PXA-H900 uses female RCA-type jacks for connection to other units (e.g. amplifier) having RCA connectors. You may need an adaptor to connect other units. If so, please contact your authorized ALPINE dealer for assistance.

### Wiring Connections

Improper wiring connections could cause serious damage to your audio system. Be sure you:

1. DO NOT connect (–) wires from left and right speakers together.
2. DO NOT ground any speaker wires.
3. DO NOT run wires where they may be pinched or cut.
4. DO NOT leave bare speaker terminals exposed. They may contact the vehicle chassis and cause a short.

### Fuse

When replacing the fuse(s), the replacement fuse must be of the same amperage as shown on the fuse holder. If the fuse(s) blows more than once, carefully check all electrical connections for shorted circuitry. Also have your vehicle's voltage regulator checked. Do not attempt to repair the unit yourself; return it to your Alpine dealer or nearest Alpine Service Station for servicing.

### Temperature

In order to ensure proper performance, be sure the temperature in your vehicle is above 14 F (–10 C) and below 140 F (60 C) before turning your unit on. Good air circulation is essential to prevent internal heat build-up in the unit.

## Contents

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## IMPORTANT

Please record the serial number of your unit in the space provided below and keep it as a permanent record. The serial number plate is located on the bottom of the unit.

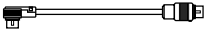
SERIAL NUMBER: \_\_\_\_\_  
INSTALLATION DATE: \_\_\_\_\_  
INSTALLATION TECHNICIAN: \_\_\_\_\_  
PLACE OF PURCHASE: \_\_\_\_\_

### **To prevent external noise from entering the audio system.**

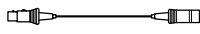
- Locate the unit and route the leads at least 10cm away from the car harness.
- Keep the battery power leads as far away from other leads as possible.
- Connect the ground lead securely to a bare metal spot (remove any paint, dirt or grease if necessary) of the car chassis.
- If you add an optional noise suppressor, connect it as far away from the unit as possible. Your Alpine dealer carries various noise suppressors. Contact them for further information.
- Your Alpine dealer knows best about noise prevention measures so consult your dealer for further information.

# Accessories

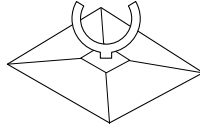
Ai-NET cable  
(6m)



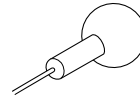
Display cable  
(6m)



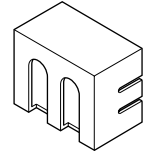
Stand



Microphone



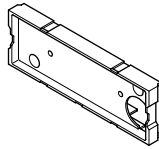
Terminal board  
cover



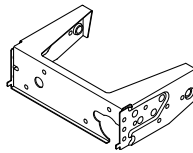
Connection  
Cable



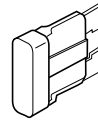
Spacer



Bracket



Spare fuse  
(15A)



Hexagonal  
wrench (M2.6)



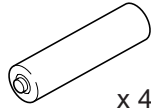
Velcro tape for  
mounting  
remote control  
unit holder



Velcro tape for  
mounting stand



Battery (AAA)



x 4

Flanged self-  
tapping screw  
(M4 x 14)



x 4

Hexagon screw  
(M4 x 10)



x 2

Pan head screw  
(M3 x 5)



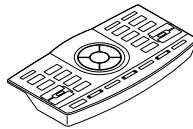
x 4

Flat head screw  
(M5 x 8)

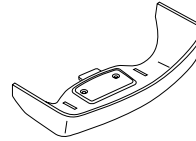


x 4

Remote control



Remote control  
unit holder

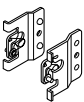


Screw for  
mounting  
remote control  
unit holder  
(M2.9 x 20)



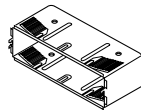
x 2

Side bracket

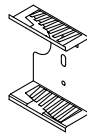


One on each side

Inner case



Flush mount



x 2

Pan head screw  
(M2.6 x 6)



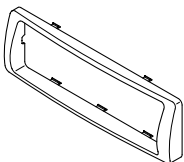
x 2

Self-tapping  
screw  
(M2.6 x 8)



x 4

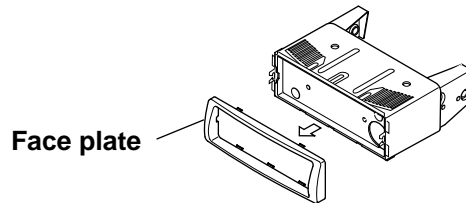
Face plate



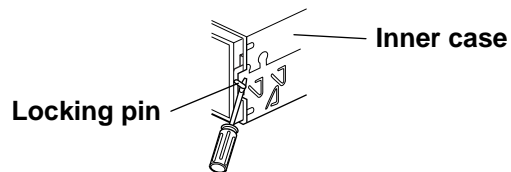
# Installation

## • Mounting the display

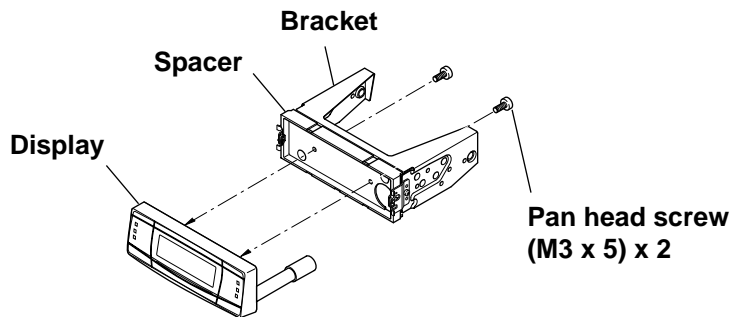
1. Remove the face plate.



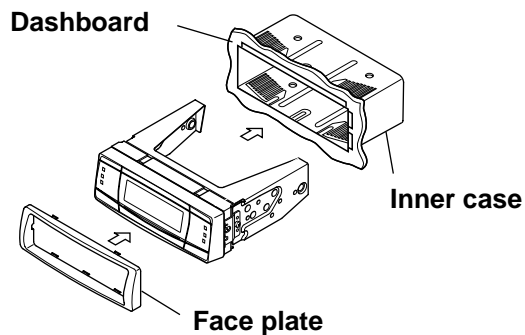
2. Use a screwdriver, etc., to slide the locking pin, then take out the inner case.



3. Mount the display using the included screws.

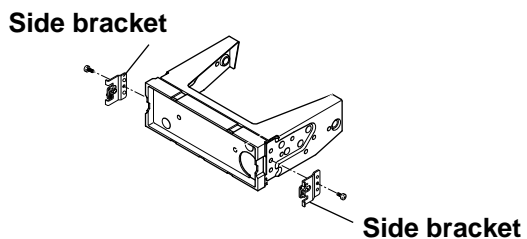


4. Mount the previously removed inner case into the dashboard. Slide the display unit into the case.

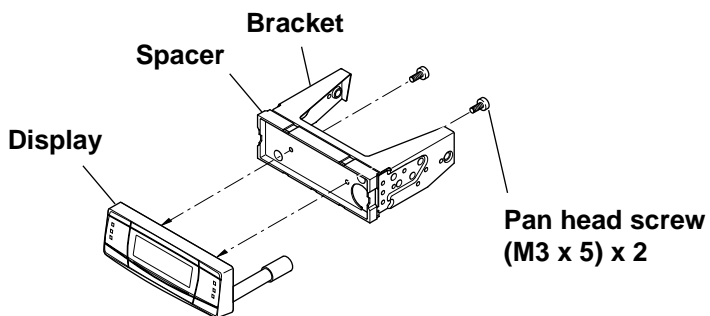


< JAPANESE CAR >

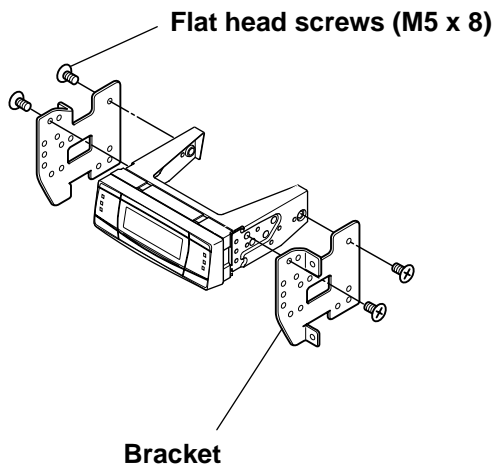
1. After step 2 on page 7, remove the included side bracket.



2. Mount the display using the included screws.



3. Mount the spacer and bracket to the display. Next, securely mount the factory brackets removed from the factory radio, to the display assembly.



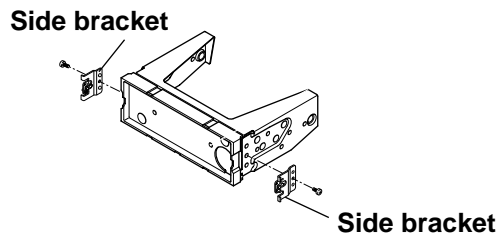


## • Flush Mounting the display

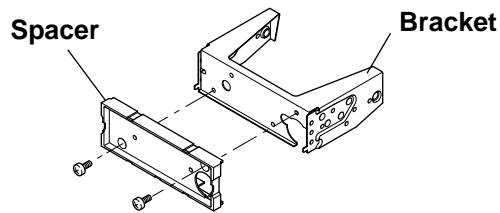
1. Make a cut-out approximately 178 (width) by 50 (height) mm (7 inches by 2 inches) in size at your desired mounting location.

**WARNING:** When making cut-outs, be careful not to damage pipes, tanks, electric wires, etc. Doing so could lead to accidents or fire.

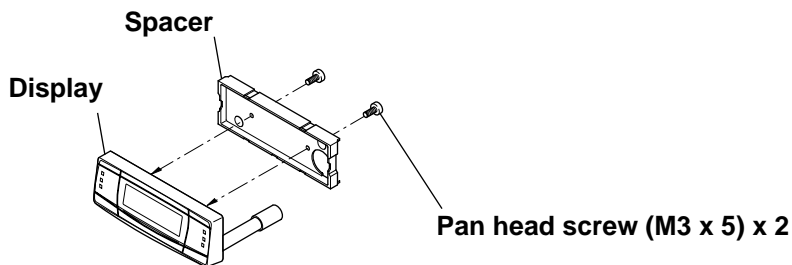
2. After step 2 on page 7, remove the included side bracket.



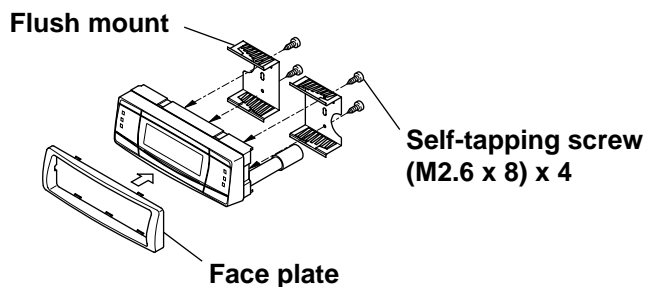
3. Remove the spacer from the bracket.



4. Mount the spacer on the display using the included screws.



5. Attach the flush mount brackets to the display using the included screws. Mount this assembly into the prepared cut-out.

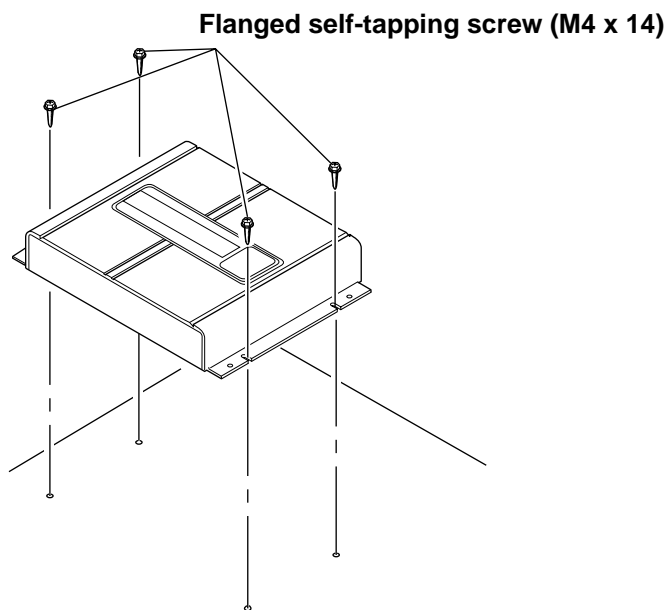


## • Mounting the base unit

1. Decide on the installation location.
  - The trunk, etc., is the best place.
2. Mark the positions of the mounting screws at the chosen location.
3. Drill 3mm (1/8") holes or smaller.

**WARNING:** When making holes, be careful not to damage pipes, tanks, electric wires, etc. Doing so could lead to accidents or fire.

4. Securely mount the unit using the four included flanged self-tapping screws (M4 x 14).



## • Mounting Microphone

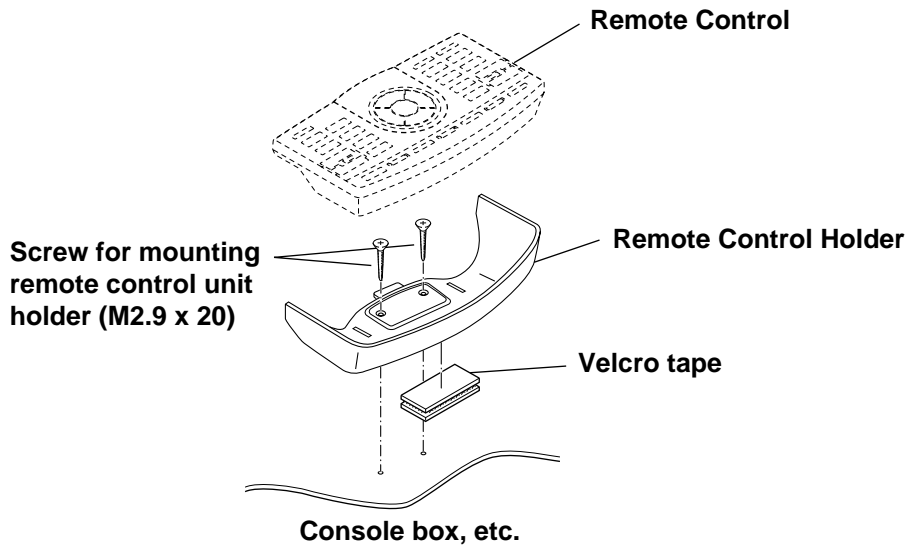
### Mounting Location

Mount the microphone on the rear-view mirror, headrest, sun visor, or other appropriate location.

1. Peel off the protective papers from the adhesive side of the Velcro fasteners. Attach 2 pieces of the Velcro fasteners on to the microphone holder base and the other side of the Velcro fastener on the spot where the microphone holder base is located.
2. Insert the microphone into the Y-shaped holder on the holder base.

## • Mounting the remote control unit holder

- If the remote control unit is exposed to direct sunlight, remove it from the holder and store it in the glove compartment.
- If the holder cannot be securely fastened in place with the Velcro, install it using screws.

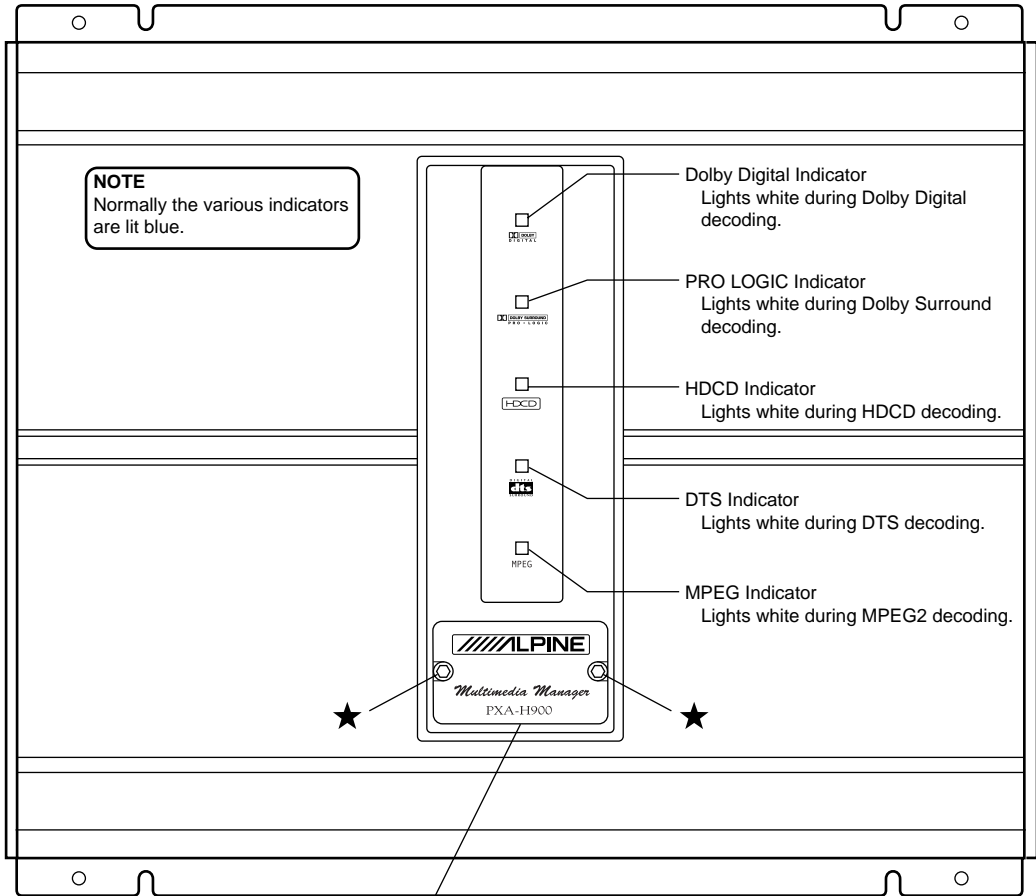


**WARNING:** Do not install the product near the passenger seat's airbag. Doing so could hamper airbag operation, leading to accidents or injury.

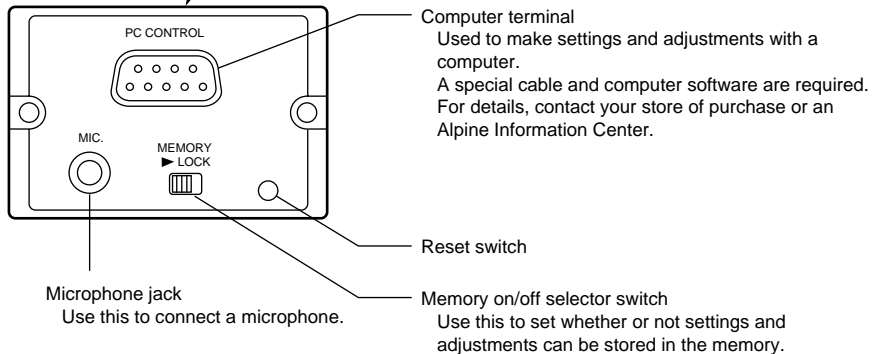
# Connections

## • Basic Connections Diagram

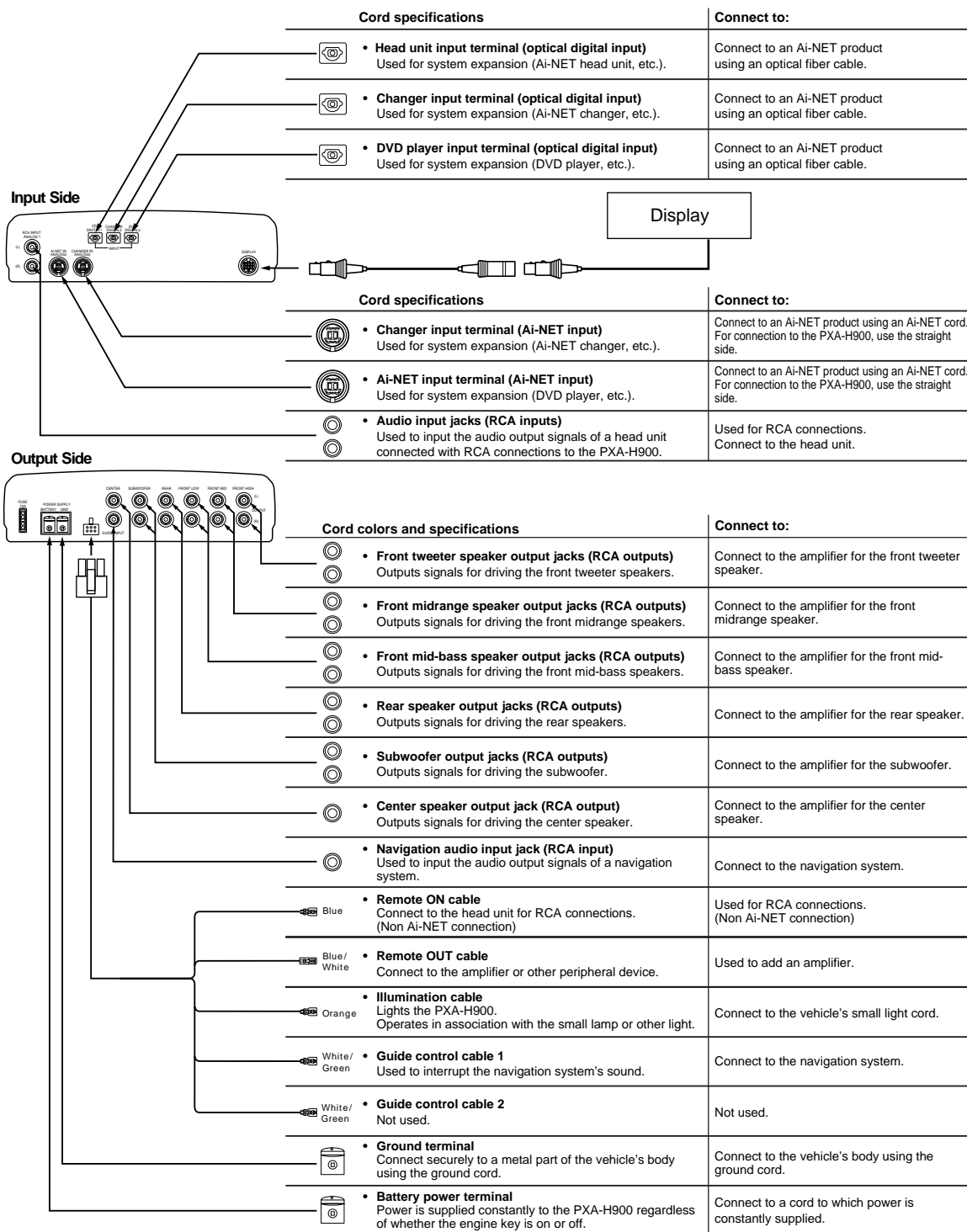
< Ceiling >



**Note:** Remove the 2 screws marked ★ using the included hexagonal wrench (M2.6).

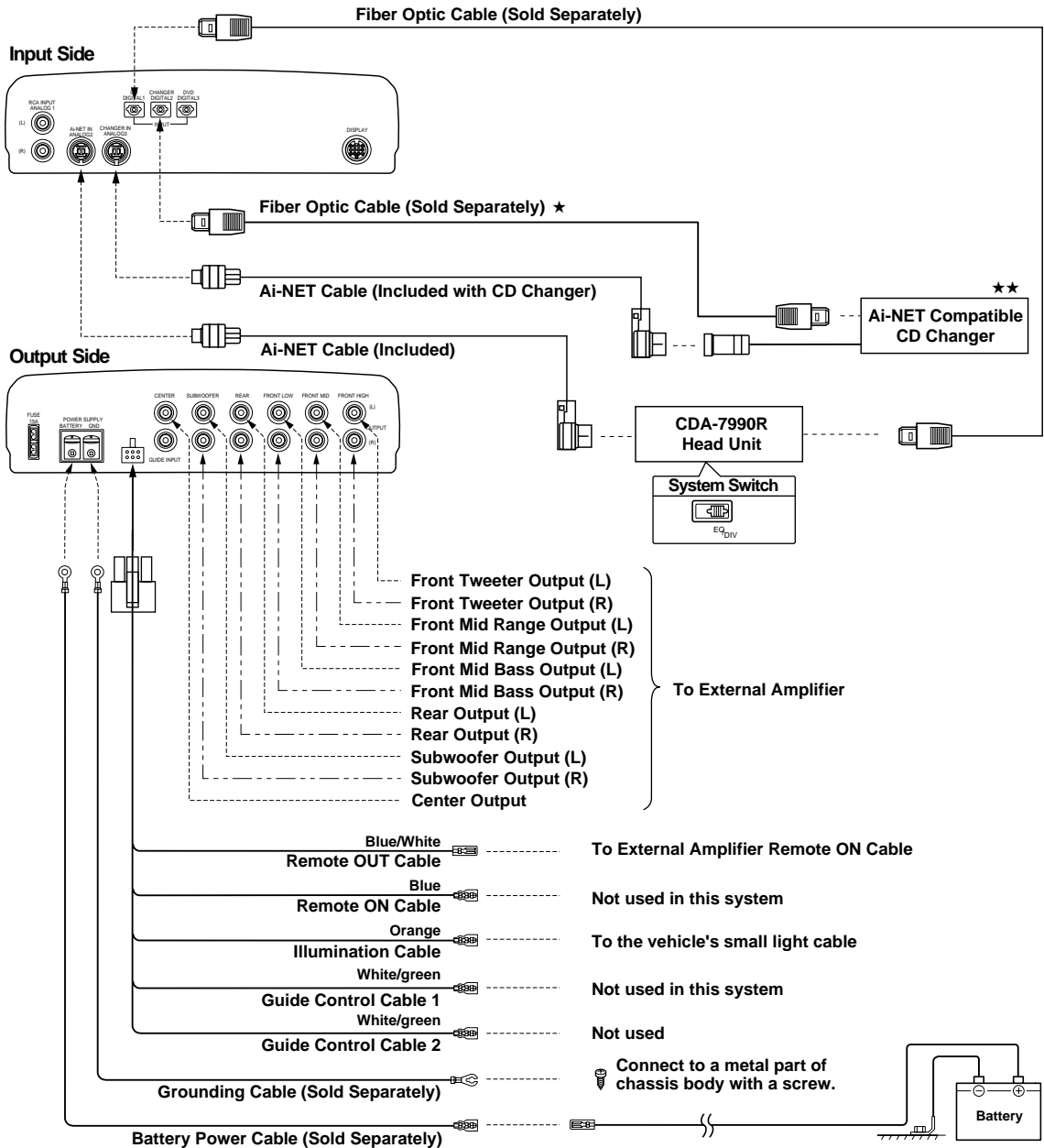


< Side Panel >



# Examples of system expansion

## • PXA-H900 + CDA-7990R Head Unit + CD Changer + External Amplifier



### NOTES

- For the ground cord (sold separately) and battery power cord (sold separately), pass the wires through the included terminal board cover before connecting them to the PXA-H900. After this, mount the terminal board cover on the PXA-H900.
- If the ground cord (sold separately) and battery power cord (sold separately) are only wires (if they do not have terminals), refer to "Installing with wires only (no terminals)" (page 18) to install.

### Please observe the following when using Fiber Optic Cable.

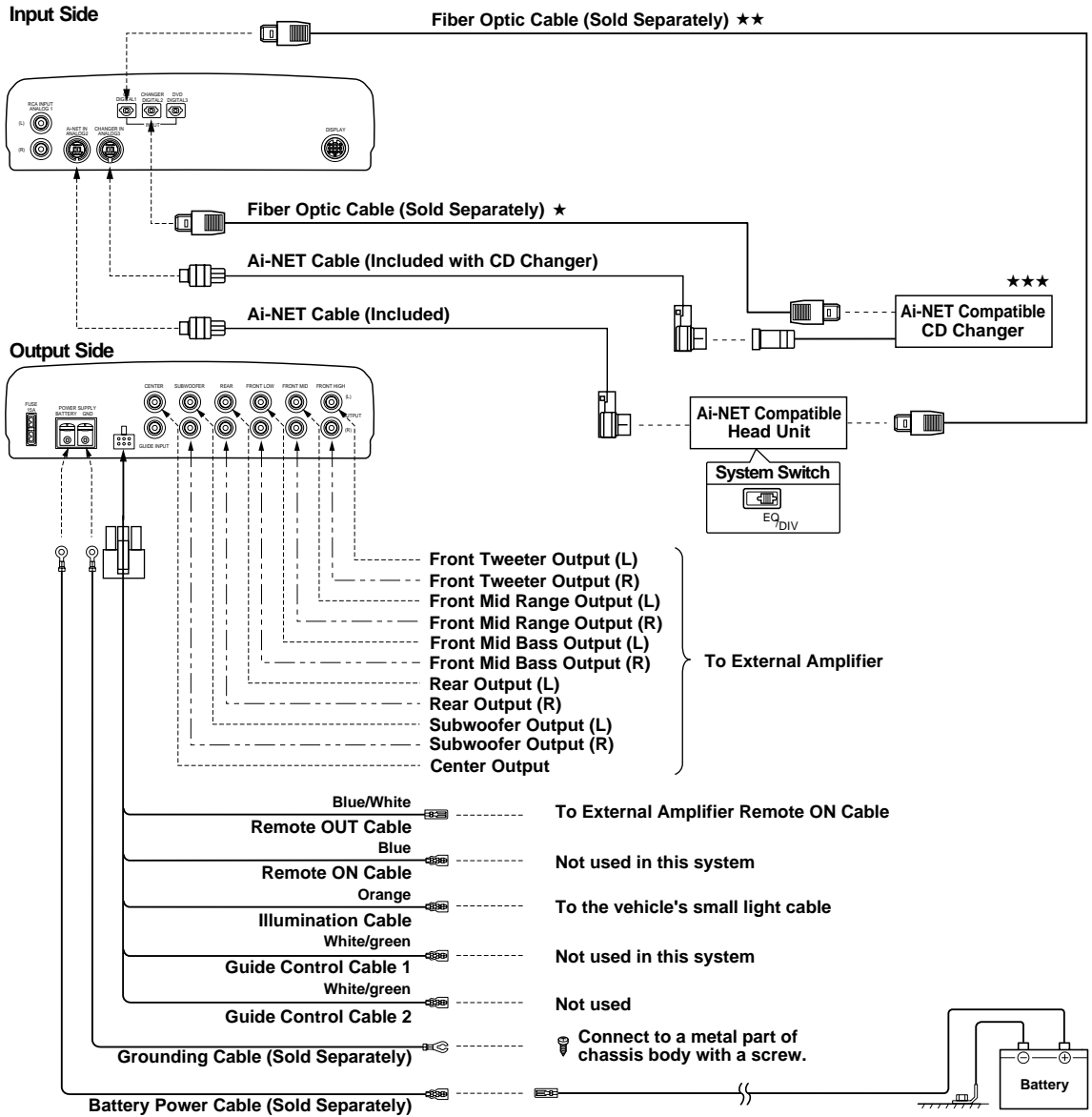
- Do not coil the Fiber Optic Cable smaller than a 30mm radius.
- Do not place anything on top of the Fiber Optic Cable.

### NOTES

- ★ When connecting a Optical Digital CD Changer
- ★★ When connecting a Optical Digital CD Changer, change the Digital/Analog switch of the CD Changer to "2" (Digital Output)



# • PXA-H900 + Ai-NET Compatible Head Unit + CD Changer + External Amplifier



## NOTES

- For the ground cord (sold separately) and battery power cord (sold separately), pass the wires through the included terminal board cover before connecting them to the PXA-H900. After this, mount the terminal board cover on the PXA-H900.
- If the ground cord (sold separately) and battery power cord (sold separately) are only wires (if they do not have terminals), refer to "Installing with wires only (no terminals)" (page 18) to install.

### Please observe the following when using Fiber Optic Cable.

- Do not coil the Fiber Optic Cable smaller than a 30mm radius.
- Do not place anything on top of the Fiber Optic Cable.

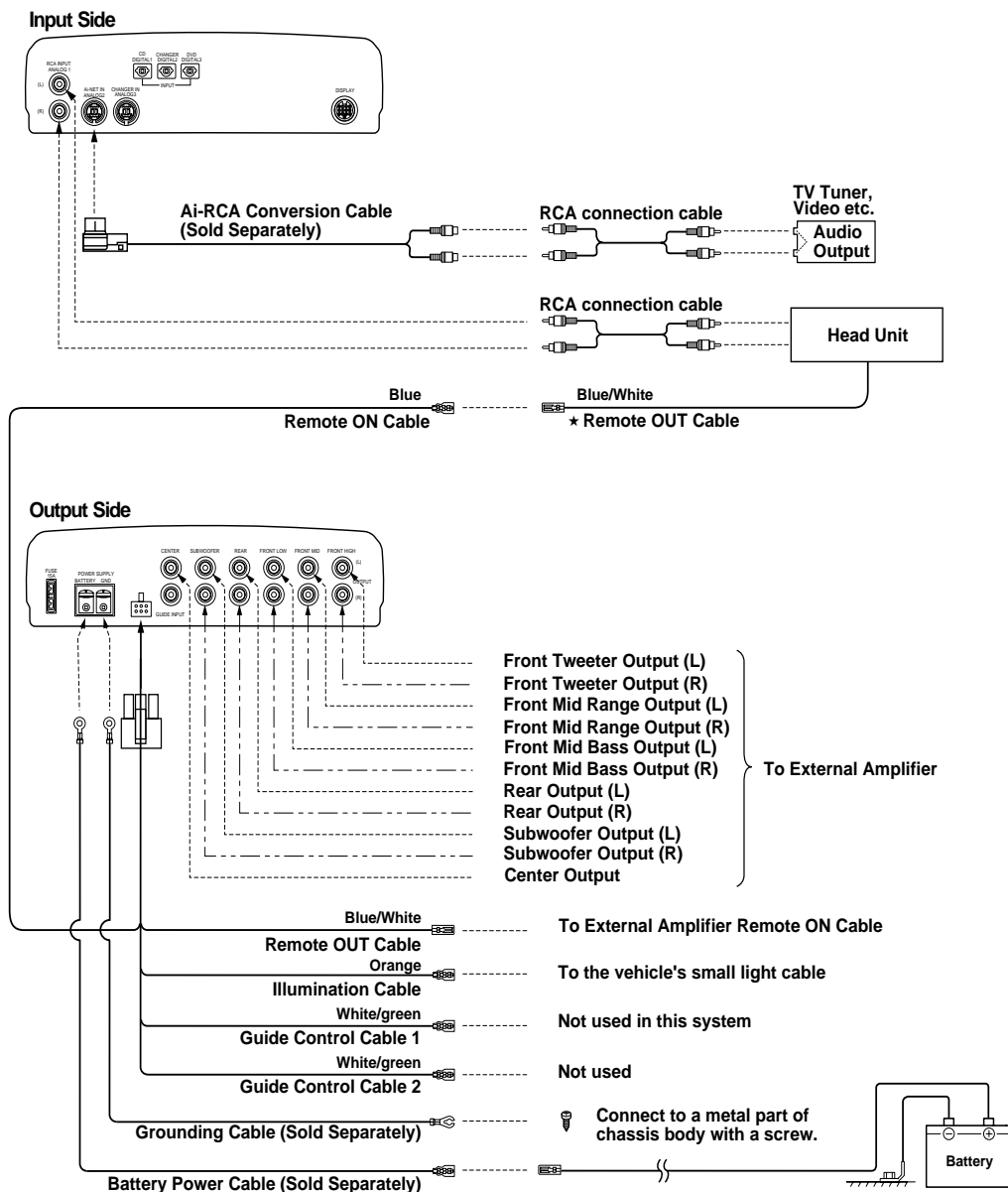
## NOTES

- ★ When connecting a Optical Digital CD Changer
- ★★ Used for connection to an optical digital compatible head unit.
- ★★★ When connecting a Optical Digital CD Changer, change the Digital/Analog switch of the CD Changer to "2" (Digital Output)



• **PXA-H900 + Head Unit + Video Deck etc. + External Amplifier**

- For connecting a head unit with which Ai-NET connections are not possible.

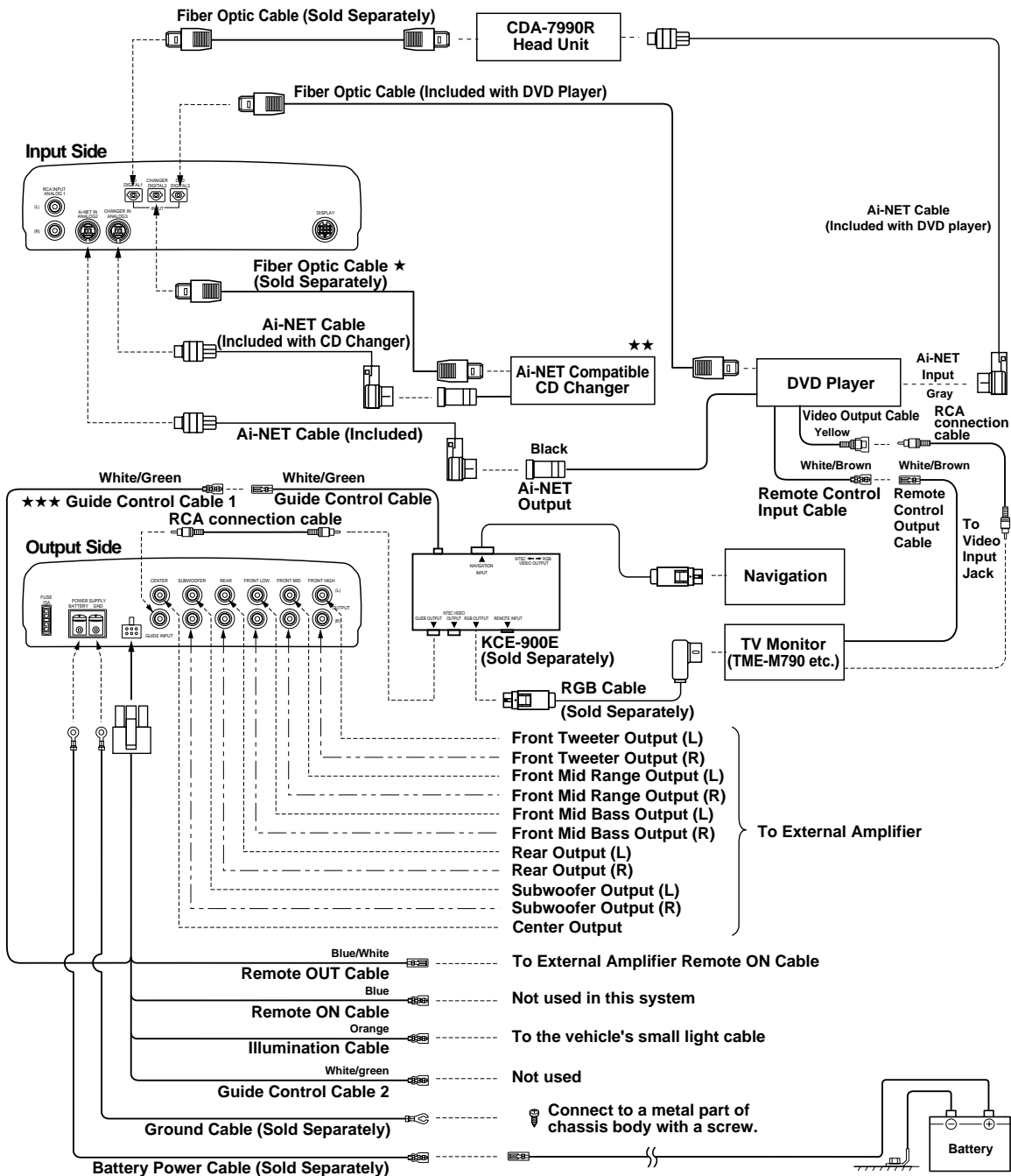


**NOTES**

- When using the PXA-H900 with a non-Ai-NET head unit, +12V is required on this line ★ to turn on the equalizer. If your head unit does not have a remote-on or power-antenna turn-on wire, an SPST switch must be connected between an ignition source and this terminal. The PXA-H900 can then be turned on using this switch. The PXA-H900 can be used with any head unit. However, only an Alpine Ai-NET compatible head unit will be able to take full advantage of all the features and functions of this processor.
- For the ground cord (sold separately) and battery power cord (sold separately), pass the wires through the included terminal board cover before connecting them to the PXA-H900. After this, mount the terminal board cover on the PXA-H900.
- If the ground cord (sold separately) and battery power cord (sold separately) are only wires (if they do not have terminals), refer to "Installing with wires only (no terminals)" (page 18) to install.



# • PXA-H900 + CDA-7990R Head Unit + DVD Player + CD Changer + Navigation System + TV Monitor + External Amplifier



## NOTES

- For the ground cord (sold separately) and battery power cord (sold separately), pass the wires through the included terminal board cover before connecting them to the PXA-H900. After this, mount the terminal board cover on the PXA-H900.
- If the ground cord (sold separately) and battery power cord (sold separately) are only wires (if they do not have terminals), refer to "Installing with wires only (no terminals)" (page 18) to install.

### Please observe the following when using Fiber Optic Cable.

- Do not coil the Fiber Optic Cable smaller than a 30mm radius.
- Do not place anything on top of the Fiber Optic Cable.

## NOTES

- ★ When connecting a Optical Digital CD Changer
- ★★ When connecting a Optical Digital CD Changer, change the Digital/Analog switch of the CD Changer to "2" (Digital Output)
- ★★★ For the guide control cable, use guide control cable 1. Do not use guide control cable 2.



## Installing with wires only (no terminals)

The hexagonal screw must be used when installing with wires only (without terminals). We strongly recommend having connections made by your store of purchase.

If you wish to make connections yourself, read the instructions below carefully and be sure to connect properly.

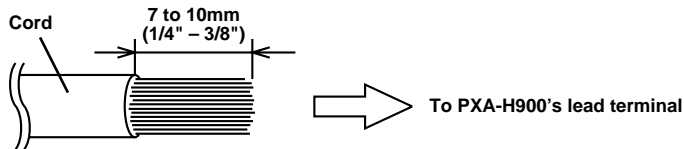
- When making connections, be sure to use the included hexagonal screw and hexagonal wrench.
- For safety, leave the power cord unplugged until all connections have been completed.
- Do not carry the PXA-H900 by its cord. The cord may be damaged and the PXA-H900 may fall.

1. Check the thickness of the wires.

### NOTES

- Use wires larger than the PXA-H900's fuse capacity.
- Wire sizes usable with the PXA-H900 are AWG8 to AWG10.
- If you do not know the thickness of the wires, contact your store of purchase, a service shop or/and Alpine service center.

2. Strip 7 to 10mm (1/4" – 3/8") of the wire's insulation.

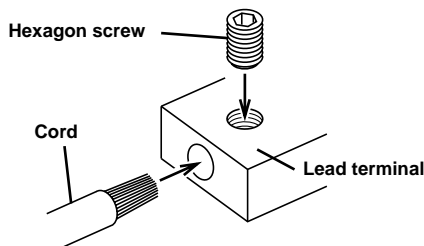


### NOTES

- If the exposed section is too short, the current will not flow properly, resulting in the PXA-H900 not operating or breaks in the sound.
- Making the exposed section too long may lead to short-circuit.

3. Pass the wire through the terminal board cover.

4. Remove the screw mounted on the PXA-H900. Insert the bare wire into the lead terminal and fasten it with the hexagonal screw. Tighten the screw using the hexagonal wrench.



### NOTE

Be sure that the cord is fully inside the lead terminal and that not a single wire of its core is sticking out. If even a single wire is sticking out, this may lead to short-circuit with the vehicle's body or the PXA-H900, resulting in fire or malfunction.

5. Mount the terminal board cover on the PXA-H900.



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