

Car AV Installation Set **TBXE-T005**

Installation Manual

This set is designed for models with driver's seat on the right side (Japan models).

Thank you very much for purchasing this Kanatechs Car AV equipment Installation Set.
Please carefully read and follow the instructions in this manual before installation.
Car owner should retain this manual for future reference.

Compatible car make and models

※ This manual is written based on information as of January 2006. Please verify the compatibility of this set for minor or major design changes on models after January 2006.

Model	Model Year	Compatibility	Note
MAZDA 3 4-Door / 5-Door	Nov 2005 -up	All Models	Note 1-6

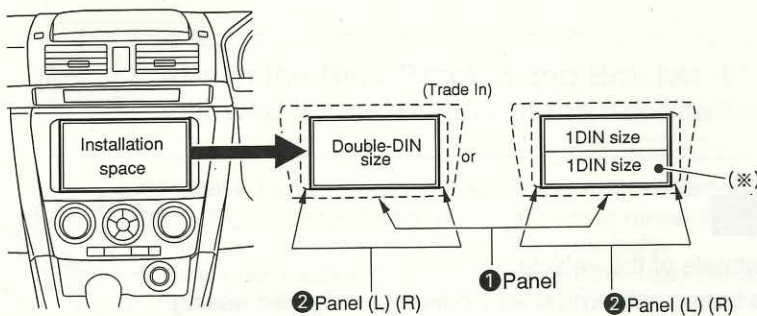
Note 1. This set is compatible with models (Oct 2004 to Nov 2005) with manual air conditioning controls.

However, the information-center-display function become disabled.

- This set is compatible with the Factory DVD car navigation system but the Factory TV function is disabled as the power supply from the Factory radio is no longer available. Some features such as the operation sounds of the Factory car navigation system may become disabled.
- Car models with the BOSE sound system use a separate amplifier. Optional sound system translator for MAZDA Models **TBXE-X001** is required for proper operation.
- The information-center-display including the clock and audio become disabled.
- Automatic Level Control (ALC) becomes disabled.
- For cars with remote audio control switches on the steering wheel, installation of optional **FPCE-T001** enables the operation of audio remote control switch on the steering wheel.

Designed Installation Size

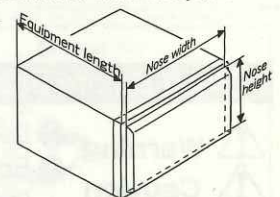
◆ For 1DIN + 1DIN size and Double-DIN size



(※) Please separately obtain a pocket available in market if installing a pocket.

※ Car AV equipments with front panel size over 172 mm width and 100 mm height cannot be installed.

※ The Car AV equipment with maximum length of 172 mm may be installed. However, some equipment may not fit with this set due to the center position of wire connecting units, the shape of the connector units or space required for wires.



Necessary tools

● ⊕ Phillips driver (#2)



● Liner Remover



Parts List

※Please use enclosed parts according to instructions. Installing or using outside parts may result in damage to the vehicle or car AV equipment.

Part No.	Part name	Quantity	Part No.	Part name	Quantity
1	Panel	1	6	Clamp (Yellow)	2
2	Panel (L) (R)	1 each	7	Clamp (White)	2
3	Bracket (L) (R)	1 each	8	Connector for Power Supply/Front and Rear Speakers (24P)	1
4	Rear Bracket	1	9	Antenna Power Supply Conversion Cord	1
5	Rubber Bushing	1	10	M5×8 screw (Note 1)	8
			11	φ 5×10 tapping screw (Note 1)	8
			12	M4 x 5 screw (Note 1, 2)	2
			13	Speed pulse Signal Cord (For models without the Factory car navigation system.)	1

Note 1. ...Used to tighten of 3 Bracket (L) (R) and 2 Panel (L) (R) together.

Note 2. ..."M4×5 screw" is used with in-dash sliding front panel type AV equipment (including Double-DIN size models) where "M4×3 screws" are enclosed in the car AV equipment. Even though the car AV equipment manual may indicate to use the shorter screws, please use 12 M4×5 screw enclosed in this package to properly attach the equipment with sufficient screw length.

Read Before Starting the Wiring Work

- Warning** ⚠ Be sure to choke at least two wheels of the vehicle.
- Caution** ⚠ Be sure that parking brake has been securely set and locked by fully depressing pedal or by pulling the parking brake hand lever.

※ Disconnect the ground terminal of the car battery before installation to prevent electrocution or any damage to equipment during the wiring work.

※ The professional skills and experience are necessary for detaching, installation, and wiring work. Improper installation may cause serious damage to the vehicle and car AV equipment. For safety, please refer installation to dealers and specialized installation shops.

※ Do not install car AV equipment at places disturbing the forward view, interfering with driving operation (steering wheel, transmission lever, and brake pedal, etc.) or causing possible danger to passengers.

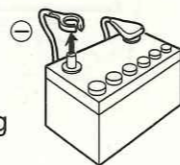
※ Watch for burrs on vehicle frames etc. to avoid injury.

※ Use care during removal and installation to prevent damage to vehicle side panels or car AV panels. etc.

(Example: affix vinyl tapes or masking tapes to protect delicate parts for removal and installation.)

※ Use a magnetized screw driver when working in narrow spaces. Screw drivers can be magnetized by attaching the driver to a speaker magnet for about 60 seconds.

Screws and clamps removed during the detachment may be needed for installation. Use care not to damage or misplace these parts.



1 Remove the information-center-display from the Factory car radio.

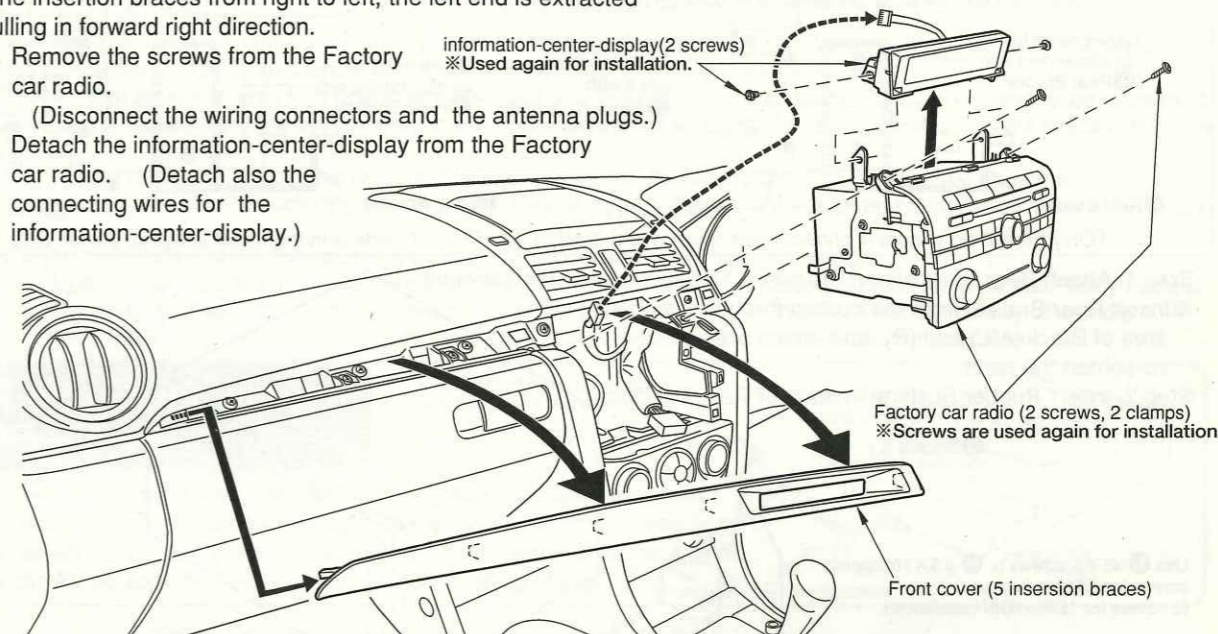
Step 1. Detach the front cover by pulling forward.

※ Detach insertion braces from right to left, the left end is extracted by pulling in forward right direction.

Step 2. Remove the screws from the Factory car radio.

(Disconnect the wiring connectors and the antenna plugs.)

Step 3. Detach the information-center-display from the Factory car radio. (Detach also the connecting wires for the information-center-display.)

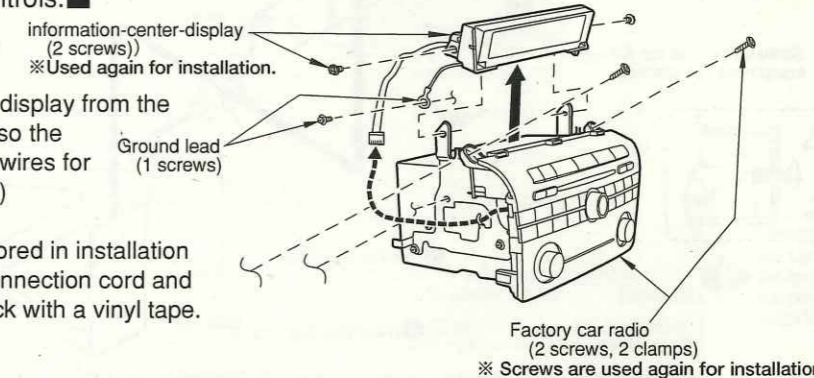


■ Detachment of the information-center-display on models (Oct 2004 to Nov 2005) with manual air conditioning controls. ■

Step 1. Detach the front cover and the Factory car radio as above.

Step 2. Detach the information-center-display from the Factory car radio. (Detach also the ground lead of the connecting wires for the information-center-display.)

※ The information-center-display is restored in installation but the display is disabled and the connection cord and the ground lead are affixed to the back with a vinyl tape.



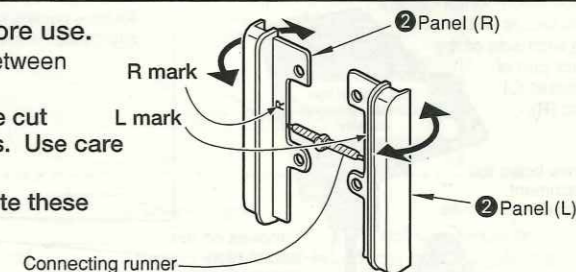
2 Attach the Rear Bracket and Bracket (L) (R) to the new car AV equipment followed by installation of the information-center-display, Panel (L) and Panel (R).

※ Panel (L) and Panel (R) need to be cut out before use.

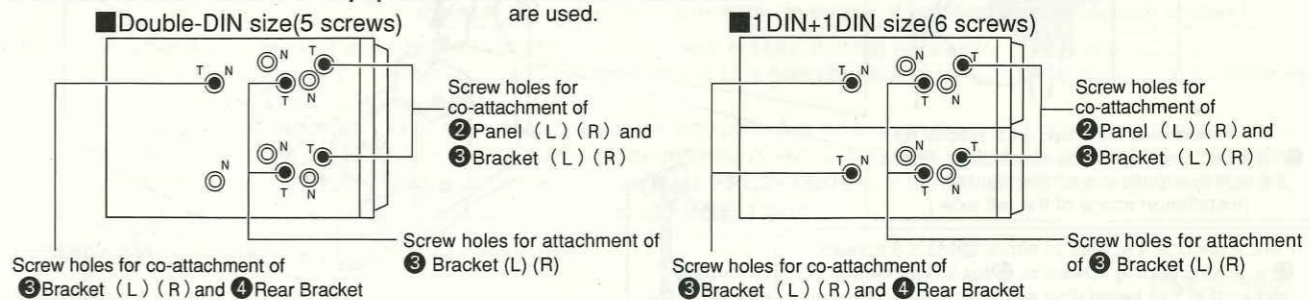
● Bending at the cut marks on the connecting runner between Panel (L) and Panel (R) should detach the parts.

※ Please use caution not to bend areas other than the cut marks or not to damage surfaces of any other parts. Use care to avoid injury.

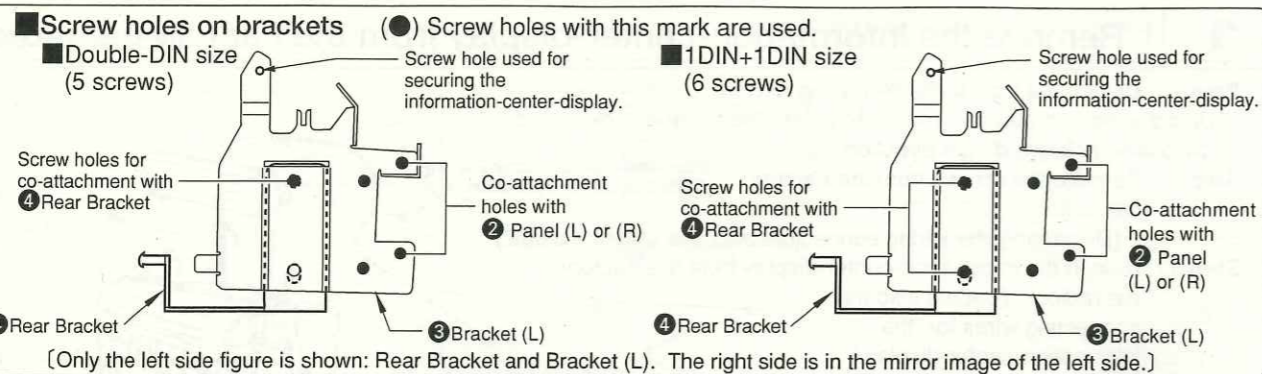
※ Each Panel is clearly marked with L or R. Please note these marks when attaching to the equipment.



■ Screw holes on car AV equipment. (●) Screw holes with this mark are used. (Also refer to the installation manual of the car AV equipment.)



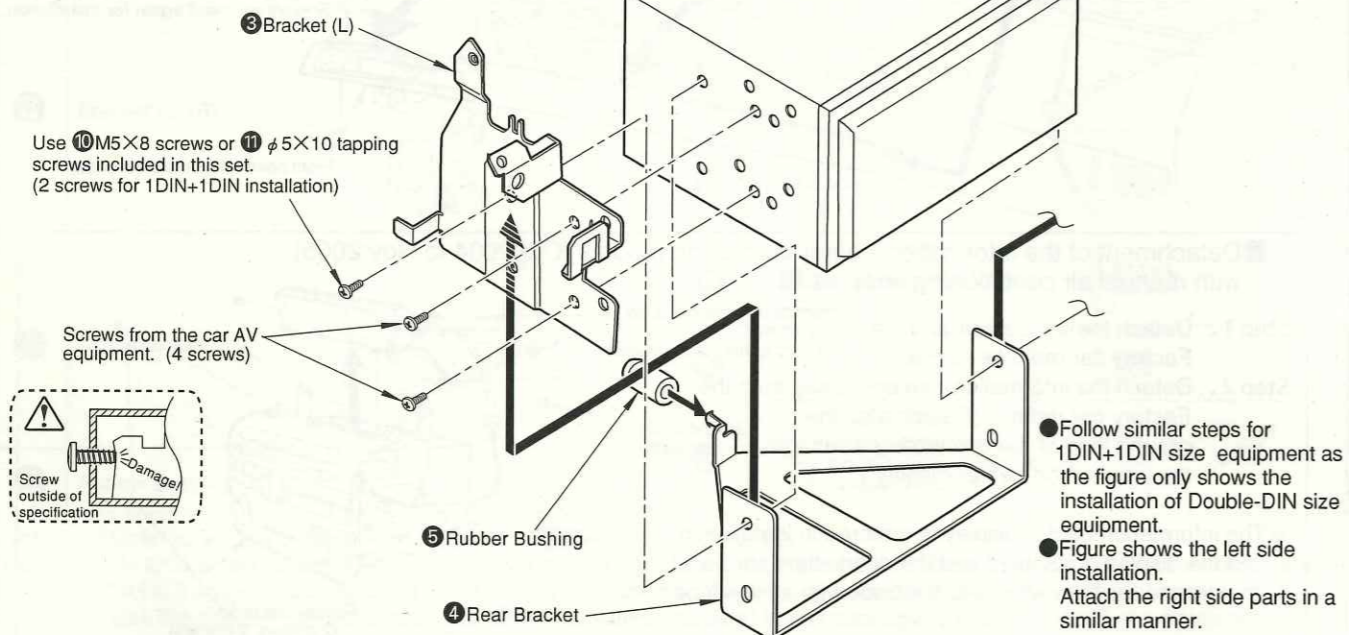
T sign ... Toyota model screw holes and N sign ... Nissan model screw holes
[Only the left side view is shown. The right side is in the mirror image.]



Step 1. Attach Rear Bracket and Bracket (L) (R) to the car AV equipment.

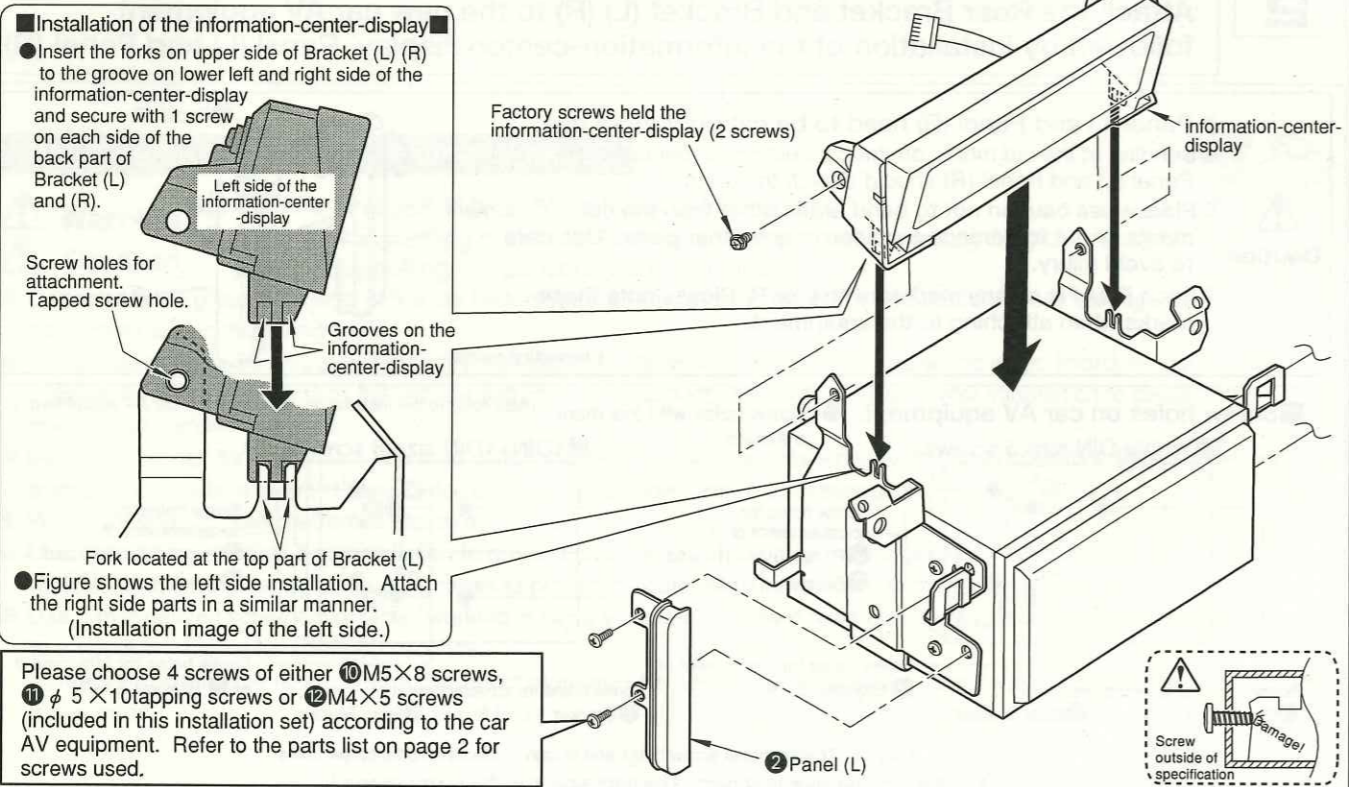
※ Insert Rear Bracket from the bottom through the convex area of Bracket (L) and (R), and attach screws to co-tighten the parts.

Step 2. Insert Rubber Bushing in back of Rear Bracket.



Step 3. The information-center-display is inserted to the upper part of Bracket (L) (R). (See left figure below)

Step 4. Co-attach Panel (L) (R) and bracket (L) (R) to the front part of the car AV equipment.



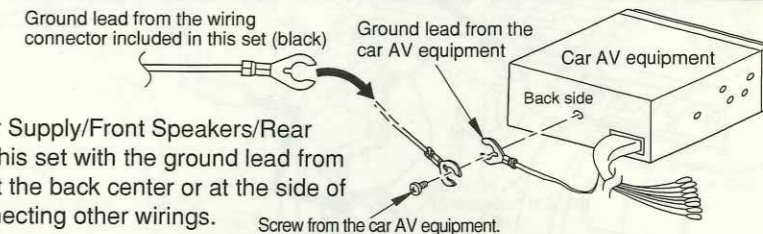
3 Connect the electrical wirings.

⚠ Cautions ◇ Check the following before starting the wiring work. ◇

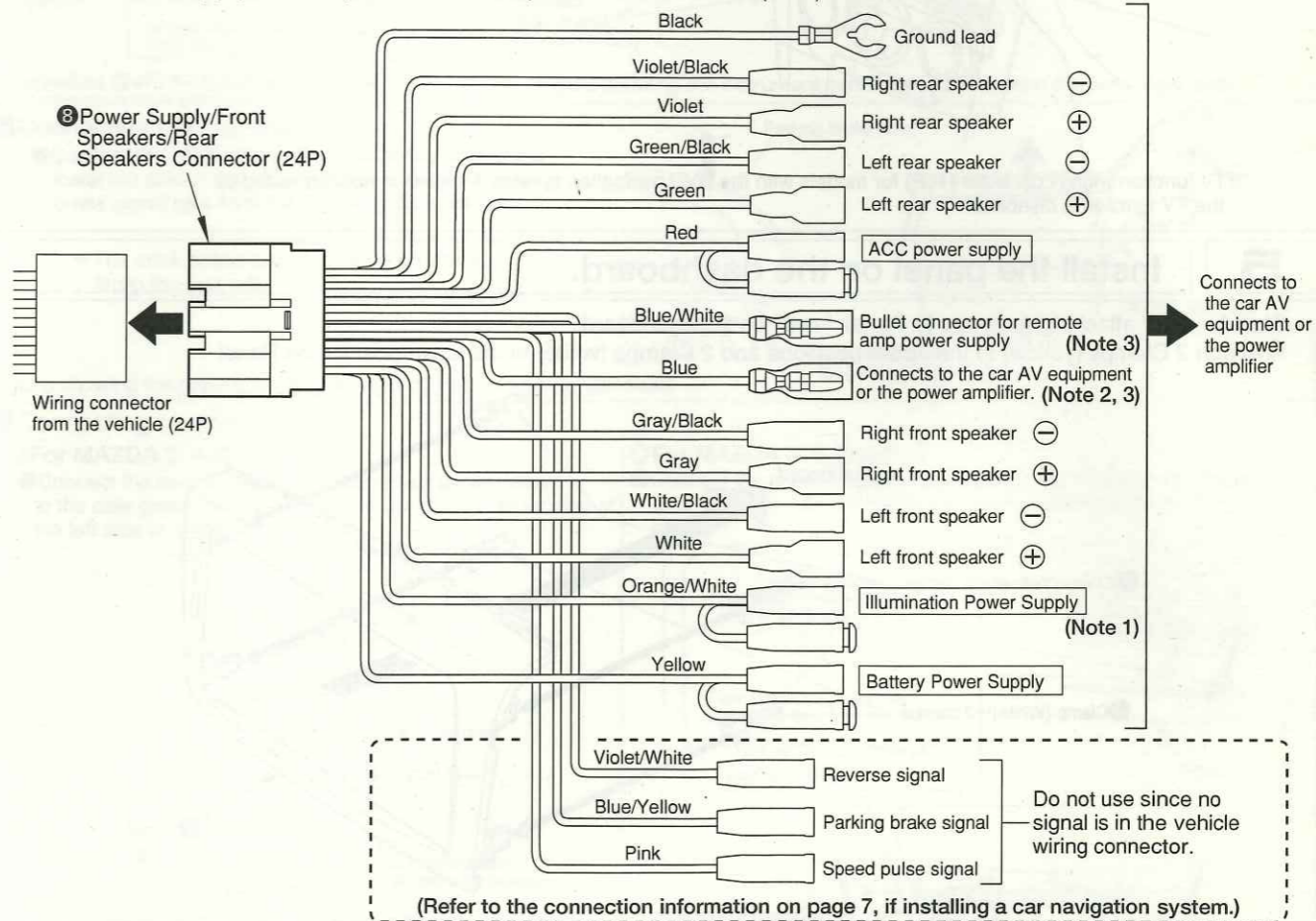
- Make sure that the maximum total current load (refer to the specification in the car AV equipment manual) connected to the wiring connector is 10A or less which is the current capacity of the vehicle's radio circuit.
- If the main AV unit does not include a power amplifier unit or if the vehicle's radio current capacity needs to be exceeded, use power supply cables from the car AV equipment manufacturer (a wiring kit for taking electric current directly from the battery).
- While the coloring code and shapes for wires in this set follows the JEITA specification, the car AV equipment manufacturer may use an other coloring specification. Please refer to the car AV equipment installation manual for proper wiring.
- Please fully insert electric quick connectors including the blade and bullet type connectors.
- When placing wires for installation, make sure that the wires are not caught in narrow spaces such as near body frames, screw holes or near moving parts such as sheet rails. Bundle and securely affix the wires out of the way of vehicle operation (keep away from the steering wheel, the transmission lever and the brake pedal motion path).

⚠ Connect the ground lead first!

※ Connect the ground lead from ② Power Supply/Front Speakers/Rear Speakers Connector (24P) included in this set with the ground lead from the car AV equipment by co-screwing at the back center or at the side of the car AV equipment, before start connecting other wirings.

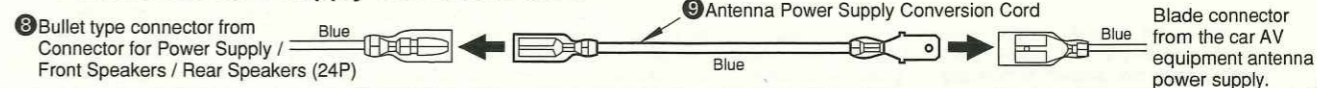


■ Power Supply/Front Speakers/Rear Speakers Connector (24P)



- Note 1. If the car AV equipment does not use the illumination power supply, it is not necessary to connect.
- Note 2. If the car is equipped with a fully automated power antenna or a glass printed antenna, connect to the auto antenna lead (Blue) from the car AV equipment.
- Note 3. If the antenna power supply connector from the car AV equipment is other than the bullet connector specified by JEITA (such as the blade type connector), insert the antenna power supply conversion cord included in this set.
- ※ This connector replace to **FPCE-T001** connector when optional **FPCE-T001** is installed for the steering wheel car audio remote control switch. Please refer to the wiring diagram of **FPCE-T001**.

■ Antenna Power Supply Conversion Cord

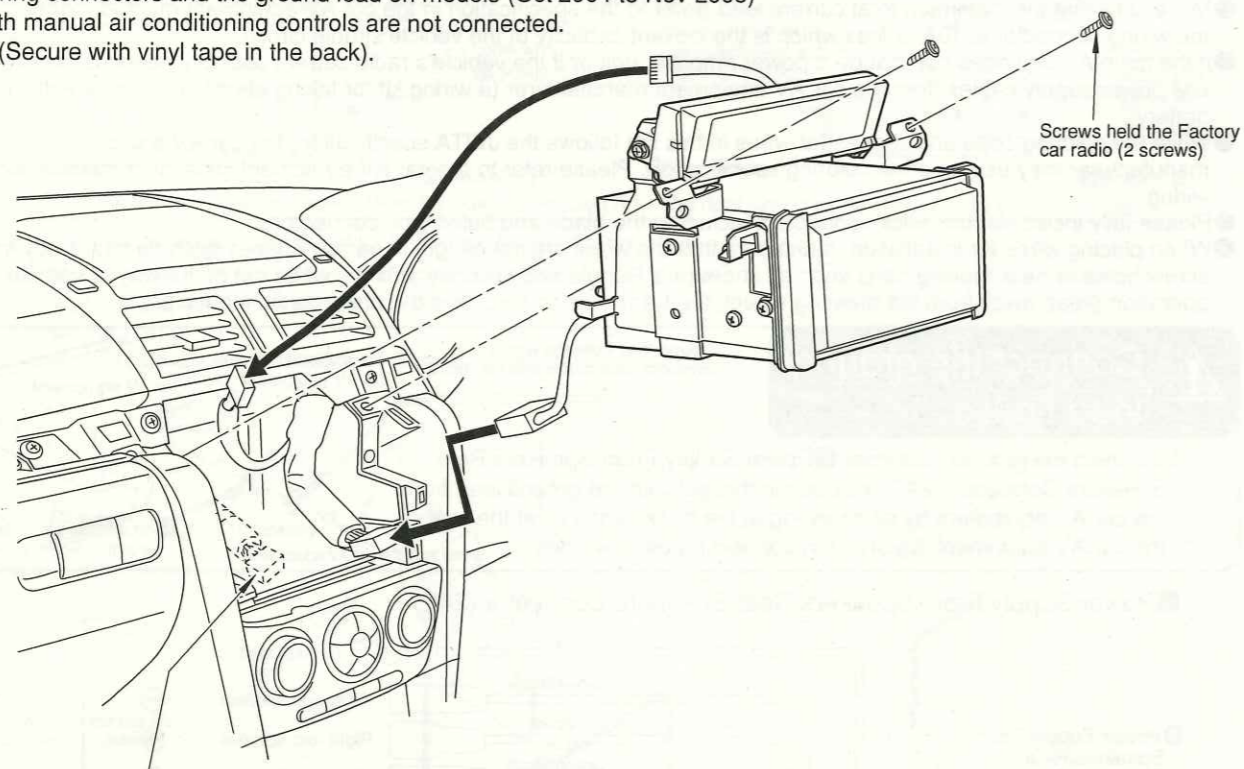


4 Install the car AV equipment on the dashboard, and confirm its operation.

Step 1. Install the car AV equipment

(Push back the car AV equipment with care not to catch wirings between parts.)

- ※ Wiring connectors and the ground lead on models (Oct 2004 to Nov 2005) with manual air conditioning controls are not connected. (Secure with vinyl tape in the back).

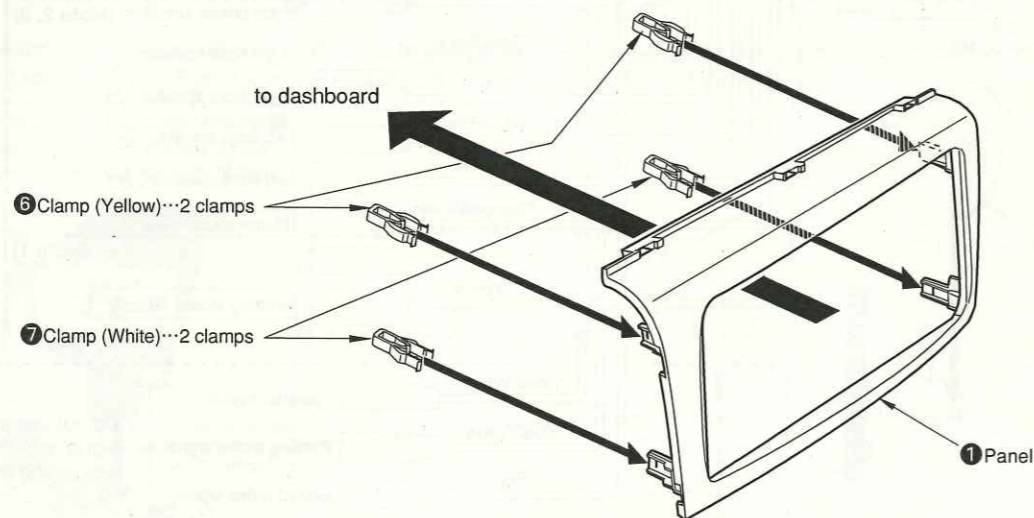


※ TV function wiring connector (16P) for models with the DVD navigation system. TV tuner is not connected as the TV function is disabled.

5 Install the panel on the dashboard.

Step 1. After attaching 4 clamps to Panel, insert on the dashboard.

- ※ Attach 2 Clamps (yellow) to the upper positions and 2 Clamps (white) to the lower position on Panel



6 Reinstall detached parts and front cover.

- Once restored, test operation of the air conditioning etc.

TBXE-T005

Connecting information for car navigation system

※ It is possible that detail may be modified by the car manufacturer. Please verify compatibility at car dealers.

Connecting Speed pulse signal

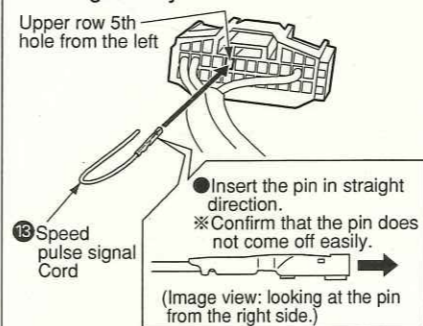
○ For Models with the Factory car navigation system.

- Connect the Speed pulse signal from the car navigation system to the white/red lead on the 24P connector socket located at the back of the instrument panel.
- ※ Remove the step plate and the kick board on the driver's side followed by the steering wheel undercover (only the upper part), instrument cover and the instrument panel.

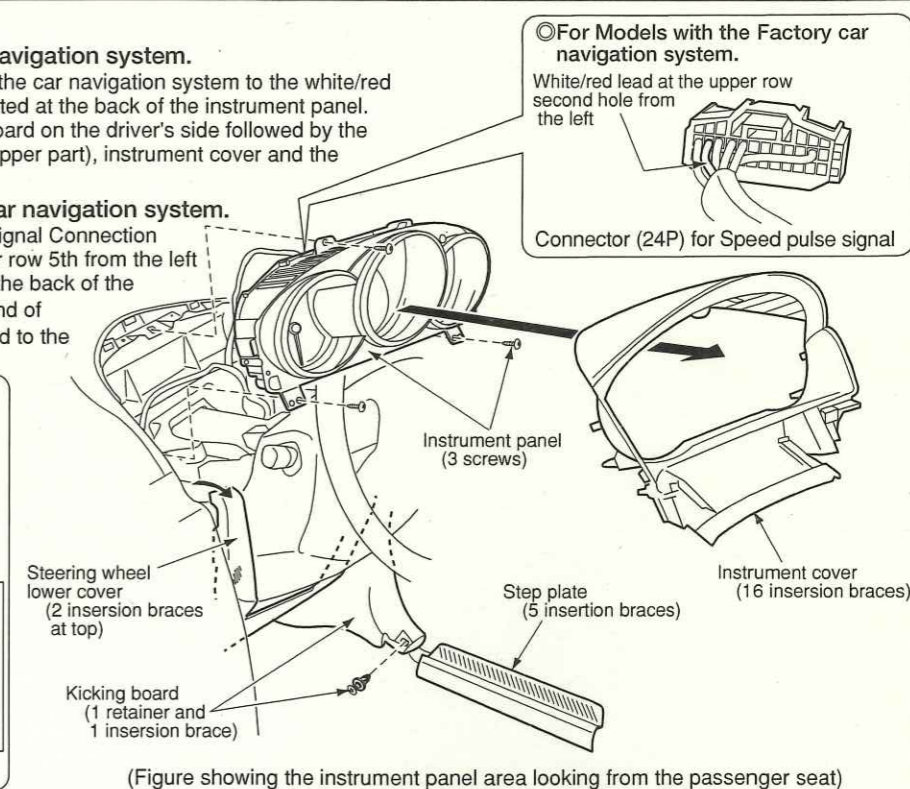
○ For Models without the Factory car navigation system.

- Insert the pin end of 13 Speed pulse signal Connection Cord (included in this set) to the upper row 5th from the left hole on the 24P connector located at the back of the instrument panel. Connect the wire end of 13 Speed pulse signal Connection Cord to the car navigation system.

○ For Models without the Factory car navigation system.



Connector (24P) for Speed pulse signal

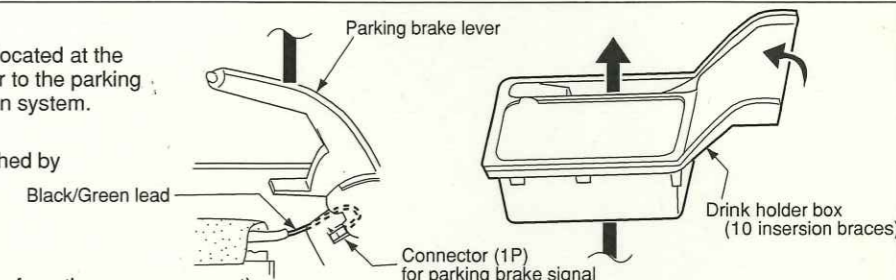


(Figure showing the instrument panel area looking from the passenger seat)

Connecting parking brake signal

- Connect the black/green 1P connector located at the lower left side of the parking brake lever to the parking brake signal wire from the car navigation system.

- ※ The drink holder box may be detached by lifting the rear side.

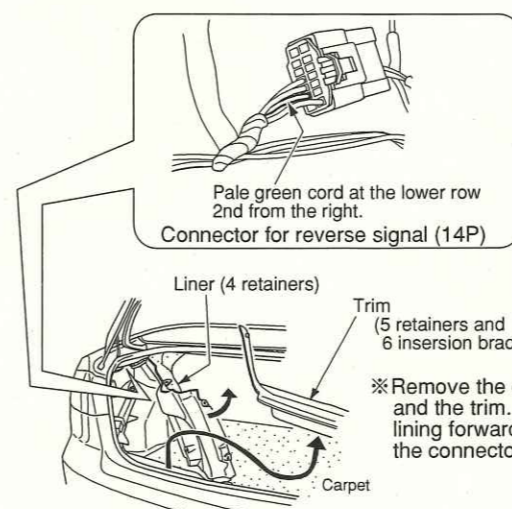


(Figure showing the parking brake lever looking from the passenger seat)

Connecting reverse signal

○ For MAZDA 3 4-Door

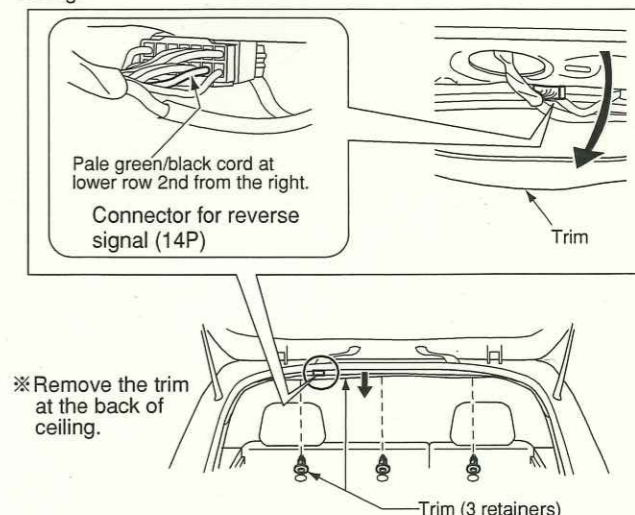
- Connect the reverse signal cord from the car navigation to the pale green cord on 14P connector for reverse located at the left side in the trunk.



(Figure showing the left side of rear gate)

○ For MAZDA 3 5-Door

- Connect the reverse signal cord from the car navigation to the pale green cord on 14P connector for reverse located at far back of the ceiling.



(Figure showing back seat area from rear door)

- ⚠ **Caution** ● Do not start the engine (nor turn to START position).
- The battery may drain if the ignition key is turned on for a long time.

※ How to verify the reverse signal connection

Securely set the parking brakes, turn the ignition switch to the ON position, and shift the transmission lever to the reverse position. Measure the voltage between the vehicle chassis (bare iron on body) and the reverse signal 14P connector (the pale green cord for MAZDA 3 4-Door, and the pale green/black cord for MAZDA 3 5-Door). The connector side should read about positive 12V. The voltage should read 0V by shifting the gear from R (reverse) into other positions.

MEMO

