KENWOOD

SEPARATE CUSTOM FIT SPEAKER K-ES01 **INSTRUCTION MANUAL**

KENWOOD CORPORATION B54-1210-20 (FHP)

Thank you for purchasing this product.

- Please read this instruction manual thoroughly before installing speakers, and install speakers correctly.
- Tools required for installation Phillips screwdriver, Flat-head screwdriver, Clip driver, Pliers, Nippers, Wrench Electric hand drill and bits, Cutting knife, Electrical tape, Scissors, Felt-tip pen

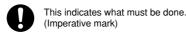
Safety caution

Be sure to observe the warning and caution provided below as they are critical for your safety. The meanings of the symbols are as follows.

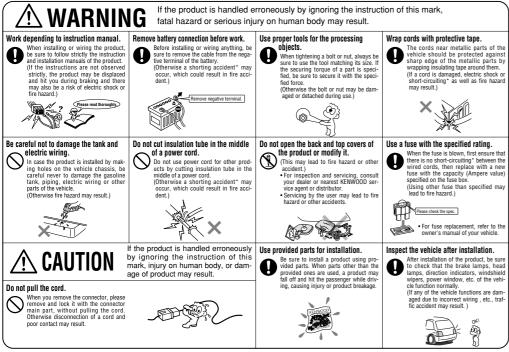




These indicate what must not be done



■ Installation cautions



Short-circuiting and shorting accident

Short-circuiting refers to the direct connection between the positive and negative poles of electricity. This may occur when a stripped cord (electric wiring) comes in contact with another cord or metallic part of vehicle. Short-circuiting may produce spark, which may be caught by surrounding objects and result in fire hazard

Cautions on use



- · Please install depending to this instruction manual. Please keep it carefully after finishing reading this. It is better to keep this manual together with the owner's manual
- For inquiries on installation, please consult your dealer or nearest service agent.
- Refer to guidance on attached sheet for inquiry about the product to our company.

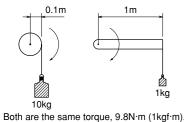
- 1. When installing in some types of a car, it is necessary to remove the seat belt. It is necessary to mount the bolt which fixes a seat belt by the specified force. For inquiries on torque, please consult your dealer or your car shop.
- 2. When installing in some types of a car, you have to install using an installation kit. For inquiries, please consult your dealer.
- 3. Depending on the year or grade of a car, some vehicles may have changed parts. For inquiries, please consult your dealer.

About bolting torque

"The power to twist something" is called "torque."

Two persons grip each end of one bat, and twist in opposite direction, respectively. In this case, the person with the thick bat side is more advantageous.

Thus, even if using the same force, turning something with a large radius will have larger twisting strength, or torque.



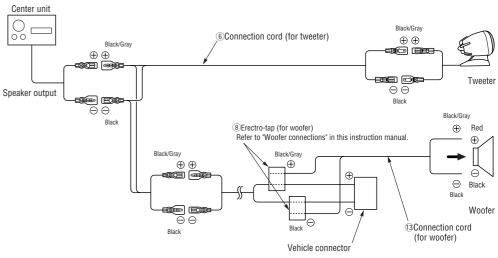
[Bolting torque of a screw]; The power in which an adult tightens a screw normally using an ordinary screwdriver is 1-2N·m (0.1-0.2kgf·m).

[Bolting torque of a bolt]; The torque when tightening a bolt by 25kg power using a wrench is 49N·m (5kgf·m).

System connections

■ Connection example 1

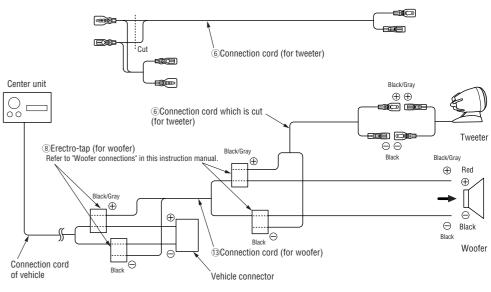
Tweeter connection from center unit. (Tweeter is installed on the dashboard.)



 $\ensuremath{\%}$ The high path filter for a tweeter is built in the main part of a tweeter

■ Connection example 2

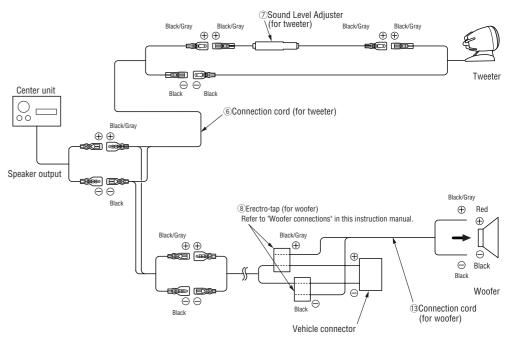
Tweeter connection from woofer. (Tweeter is installed on the door panel.)



* The high path filter for a tweeter is built in the main part of a tweeter.

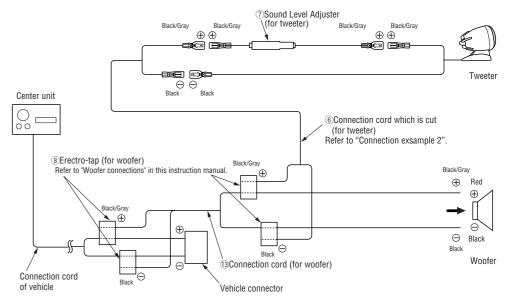
■ Connection example 3 • If the tweeter level is too high.

Tweeter connection from center unit. (Tweeter is installed on the dashboard.)



■ Connection example 4 • If the tweeter level is too high.

Tweeter connection from woofer (Tweeter is installed on the door panel)

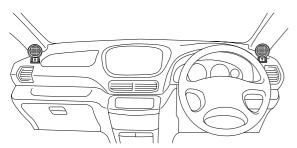


∧Caution

- The terminal which is not used should be protected by electrical tape for shorting accident prevention.
- Be careful of the polarity of plus/minus and connect depending to the connection example.

Mounting location for tweeter

1. On the dashboard



※ Please face the tweeter on the side of the driver's seat towards the direction of the passenger seat, and face the tweeter on the side of the passenger seat towards the driver's seat side

2. On the door panel



It may be unable to mount on the door of some vehicle types

Installation for tweeter

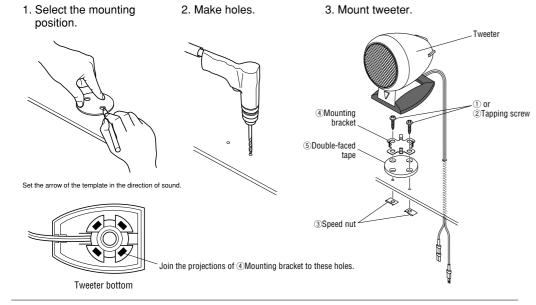
■ Before work

- · Before making holes, check the mounting space with the supplied template (in the inner flap of the carton box). • To prevent noise pick-up, keep the wiring of this unit away from motors, high voltage leads and other possible
- To prevent short-circuiting, keep all wiring away from moving parts, sharp edges, cut metal, etc.
- Do not switch power ON until wiring is completed.

■ Installation procedure

- 1. Select the mounting position, referring to "Mounting location for tweeter".
- 2. Place the supplied template on the selected position and mark the hole positions with a felt-tip pen.
- 3. Cut out a hole for letting the cord pass, and make screw holes in the position of the mark.
- 4. Install (4) Mounting bracket using (1) or (2) Tapping screw, (3) Speed nut and (5) Double-faced tape.
- 5. Join the projections of 4 Mounting bracket to the holes at the bottom of a tweeter.

■ Installation

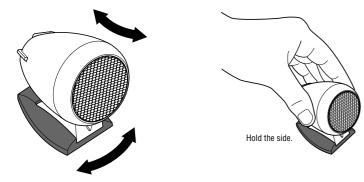


∧Caution

- Install the tweeter so that it will not come in contact with the window class etc.
- · When you check the mounting space, check that there is no contact by opening and closing of a door, or no interference with safeguards, such as an air bag.
- Be careful not to damage the tank and hose, in the case of processing work.
- Do not install the tweeters in locations which may be subject to water or hot air.
- Fix the tweeter in a position which does not hinder the driving operations.
- Do not use any parts other than specified. (Otherwise imperfect installation may cause the tweeter installation to loosen, and cause it to drop.)

Angle adjustment

· After installation, you can adjust direction of this tweeter to an optimum angle for better music reproduction. As shown in figure, hold the side of the tweeter, change direction of the tweeter slowly, and decide the direction with the best balance of L and R.



∧Caution

- Do not adjust to an impossible angle.
- Do not hold front side or cord of the tweeter when adjusting.
- The tweeter adjustment should be operated after having stopped the vehicle at a safe place.
- * Frequent direction adjustment and impossible adjustment may not maintain direction of the tweeter.

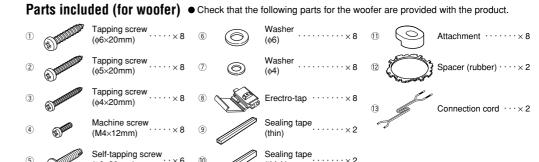
∆Warning

• When a vehicle has been left under direct sunlight, the surface temperature of the tweeter may rise to a considerable level. Keep in mind that there is danger of a burn if it is touched.

* Decrease enough the internal temperature of a vehicle before adjusting.

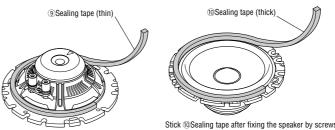
PEAK POWER 160W

Upgrade Speaker



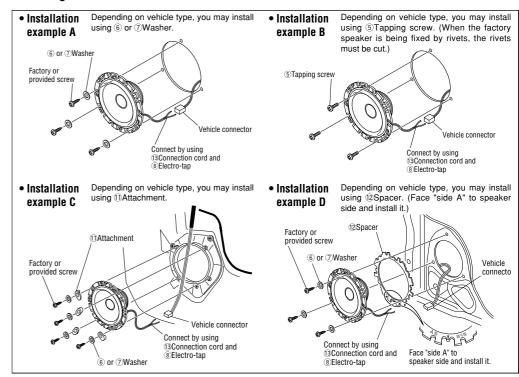
Installation preparation * Stick 9 and @Sealing tape, in order to prevent vibration and leak.

• Stick 9 and 10 Sealing tape



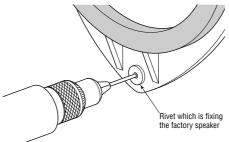
Be sure to install product using provided sealing tape. Installing without using sealing tape may cause water leak into a vehicle

Mounting location for woofer ** Refer to "Woofer connections" for the connection of vehicle connector and @Connection cord.



Removal of rivet

· When the factory speaker is being fixed by rivets.



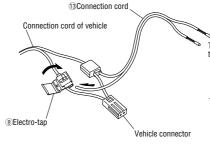
- A rivet is removed by making a hole in the lock portion (the central portion) of it with a drill.
- * Also remove the fragment of the rivet.
- * The removed rivet cannot be re-used.

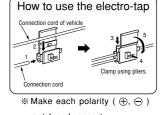
∧Caution

· If the metal part of a door is deformed, the diameter of the screw hole becomes large and it becomes impossible to install the woofer

Woofer connections

• Connection of vehicle connector and (3)Connection cord Connect using ® Electro-tap.





match and connect.

∧Caution

· The terminal which is not used should be protected by electrical tape for shorting accident prevention.

· Connection to woofer terminal

1. Remove insulation cover of cord.



2. Loosen the cap of terminal and pass cord through the hole.



∧Caution

- · Connect so that the tip of the connection cord does not contact metal portions other than terminal.
- · Tighten firmly so that the connection cord does not come off, while driving vehicle.

ullet About polarity (\oplus , \ominus)

Connecting with the wrong speaker polarity will not reproduce with the right sound stage. Be careful of the polarity and connect properly.