

TE-FW12

CAR SUBWOOFER SPEAKERS



SPECIFICATIONS:

Nominal Diameter:	12 in (310mm)
Mounting Depth:	6.0 in (152mm)
Rated Power (RMS):	900 watts
MAX. Music Power:	3000 watts
Nominal Impedance:	4+4 ohms
Frequency Response:	40-500 Hz
Sensitivity (SPL/1W/1m):	86 dB
Free Air Resonance (Fs):	40 Hz
Suspension Compliance (Cms):	84.275 mkm/N
Moving Mass (Mms):	181.503 g
Mechanical Resistance (Rms):	174.473 kg/s
Mechanical "Q" (Qms):	3.512
Electrical "Q" (Qes):	0.840
Total Speaker "Q" (Qts):	0.678
Equivalent Volume (Vas):	1.19 ft ³ (33.7 liters)
DC Resistance (Re):	3.4+3.4 ohms
Force Factor (BL):	9.691 Txm
Reference Efficiency (No):	0.261%
Voice Coil (V.C.):	Φ75.5mm, BASV
Magnet Mass:	118.5 oz (3359 g)
Subwoofer Mass:	Approx. 8.6 kg

★ Design and specifications are subject to change without notice.

Thank you for purchasing the subwoofer speaker. For the secure installation and perfect operation of your speaker, please read and understand all instructions before you use the apparatus.

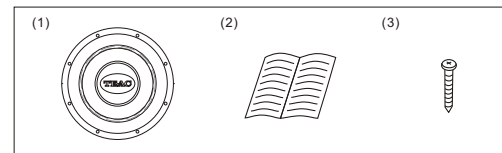
Important

- ◆ The subwoofer is heavy. Attach it firmly to a solid thick baffle-board.
- ◆ Do not continuously use the speaker system beyond the peak power handling capacity.
- ◆ Keep credit cards, watches, recorded tapes etc. with magnetic coding away from the speaker system to prevent damage caused by the magnets in the speakers.
- ◆ Clean the apparatus with soft, damp cloth. Never use substances such as alcohol, chemicals or household cleaners on the apparatus.

What's in the box

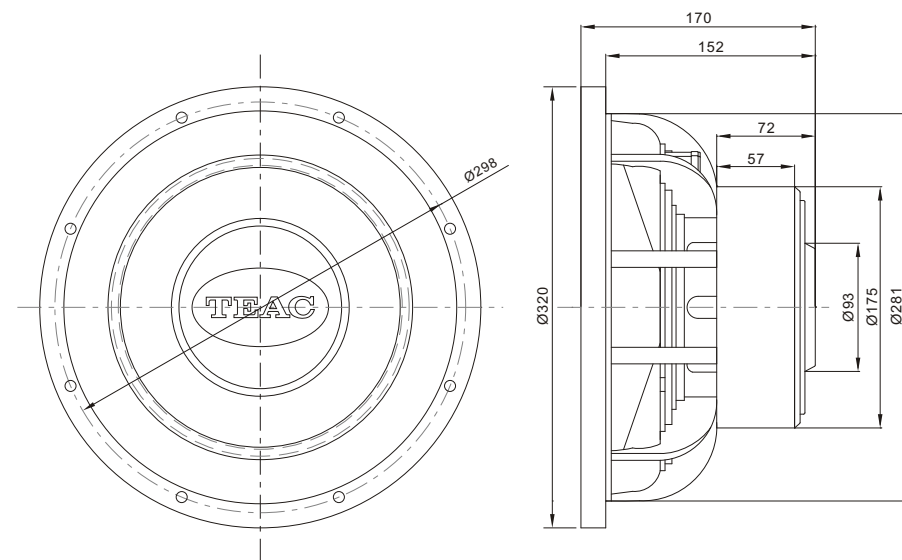
Check and identify the contents of your package:

- (1) Subwoofer × 1
- (2) Installation manual × 1
- (3) Screw (Ø5×30) × 8



★ Accessories are subject to change without notice.

Dimensions (Unit: mm)



Installation

Option 1: Mount on rear tray

You can mount the subwoofer on the rear tray. (Fig.1)

★ Set the wiring firmly on the floor of the vehicle, taking the utmost care not to break wires while installing.

1. Turn off the car ignition key.
 - ★ If the power is on, the click noise generated by the connection may damage the subwoofer.
2. Cut out the mounting template from the packing box and paste it onto the location selected for mounting the subwoofer.
3. Mark the cut-off hole and the 8 bolt holes. (Fig.2)
4. Cut out the marked area and drill the bolt holes. (Fig.3)

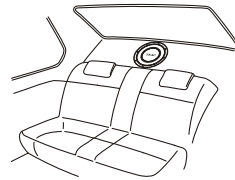


Fig.1

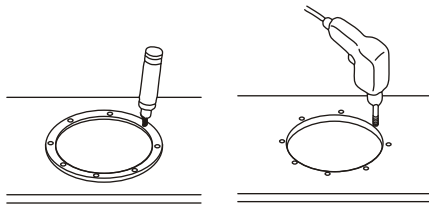


Fig.2

Fig.3

5. Connect the subwoofer to the amplifier. (Fig.4-Fig.8)

★ The subwoofer has a nominal impedance of dual 4 ohm. Make sure that the output impedance of the amplifier's speaker terminal is relevant with connection. (Refer to application diagrams below.)

★ Be sure to connect corresponding terminals, i.e. "+" to "+" and "-" to "-". Connection with reversed polarity will degrade the quality of reproduction.

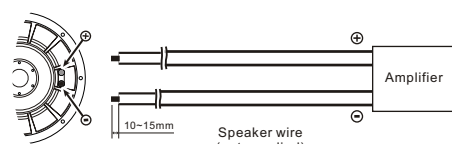


Fig.4

6. Mount the subwoofer into the rear tray with the supplied screws. (Fig.9)

Option 2: Install in a sealed enclosure

If the subwoofer cannot be mounted on the car, place it in a sealed enclosure. (Fig.10-Fig.11)

All recommended enclosures have been designed and thoroughly tested.

Connect the subwoofer to the amplifier. (See step 5 of "Option 1: Mount on rear tray" section).

Install the subwoofer into the sealed enclosure with the supplied screws.

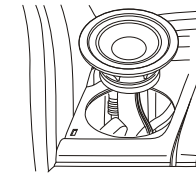


Fig.9

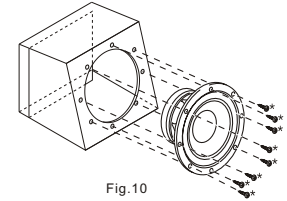


Fig.10

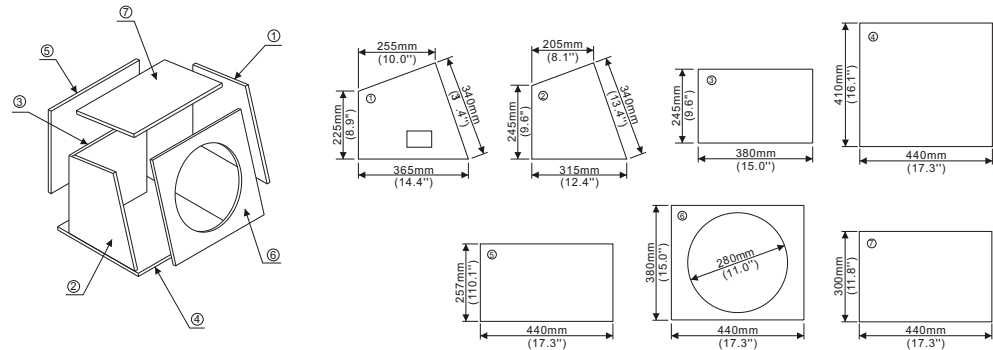


Fig.11

All boards thickness : 18mm

◆ One Amplifier and One Subwoofer

1 ch Output

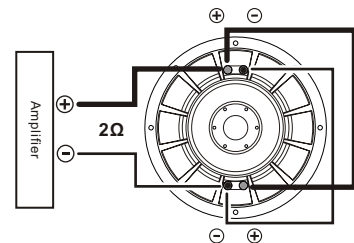


Fig.5

◆ One Amplifier and Two Subwoofers

1 ch Output

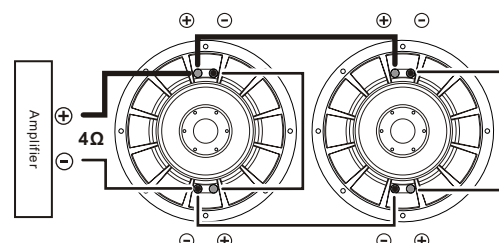


Fig.7

2 ch Output

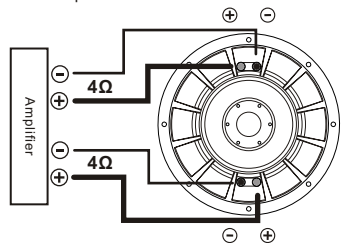


Fig.6

2 ch Output

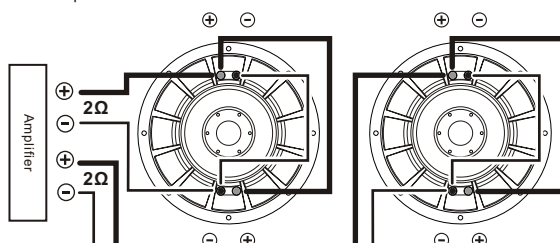


Fig.8

Troubleshooting

Symptom	Probable cause	Remedy
No output	Source or amplifier not turned on	Check source or amplifier and repair as needed
	Audio input not connected or no output from source	Check RCA connections and signal integrity, repair or replace as needed
	Speaker wires not connected	Check speaker wires and repair or replace as needed
Audio cycle on and off no output	Speaker damaged	Check speaker impedance load, if below 1 ohm rewire the speakers to achieve a higher impedance
	Loose or poor audio input	Check speaker wire connections and repair or replace as needed
Distorted output	Preamp volume set too high, exceeding maximum input capability of amplifier	Check volume of preamp and adjust appropriately, Check speaker impedance load, if below 1 ohm Rewire the speakers to achieve a higher impedance
	Impedance load to amplifier too low	Check speaker wire connections and repair or replace as needed
	Shorted speaker wires	Check system with known working speaker and repair or replace as needed
	Speaker damaged	
Poor bass response	Speakers wired with wrong polarity causing cancellation at low frequencies	Check speaker polarity and repair as needed