

CEILING MOUNT SPEAKER

PC-580S AM

Thank you for purchasing TOA's Ceiling Mount Speaker.

Please carefully follow the instructions in this manual to ensure long, trouble-free use of your equipment.

1. SAFETY PRECAUTIONS

- Before installation or use, be sure to carefully read all the instructions in this section for correct and safe operation.
- Be sure to follow all the precautionary instructions in this section, which contain important warnings and/or cautions regarding safety.
- After reading, keep this manual handy for future reference.

WARNING

Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.

- Install the unit in a indoor location that can structurally support the weight of the unit and the mounting bracket. Doing otherwise may result in the unit falling down and causing personal injury and/or property damage.
- Do not use other methods than specified to mount the bracket. If extreme force is applied to the unit, it could fall off and possibly resulting in personal injuries.

CAUTION

Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.

- Avoid touching the unit's sharp metal edge to prevent injury.
- To avoid electric shocks, be sure to switch off the amplifier's power when connecting speakers.
- Do not operate the unit for an extended period of time with the sound distorting. This is an indication of a malfunction, which in turn can cause heat to generate and result in a fire.

2. GENERAL DESCRIPTION

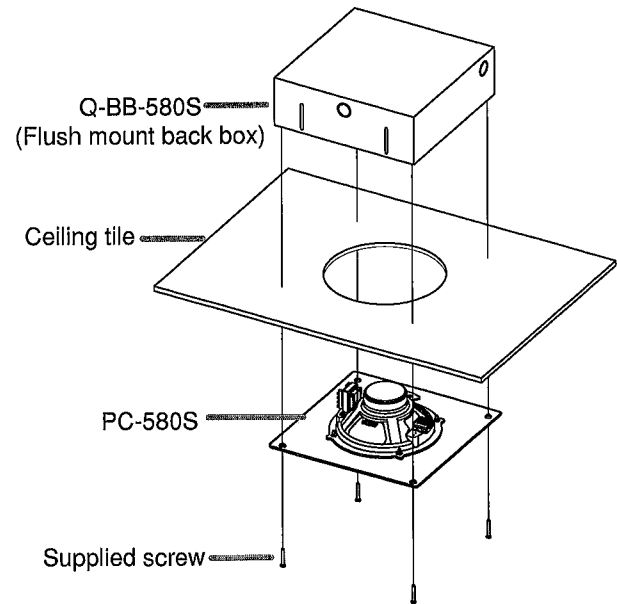
The PC-580S Square Ceiling Mount Speaker is of all heavy-duty metallic construction with an 8-inch speaker and 5W transformer to be used in 25V/70V audio distribution systems. It delivers highly intelligible voice announcements and clear music sounds in General Paging and Background Music Distribution applications. The optional back boxes are available for flush or surface mount installations on the wall. The input impedance can be easily changed by transformer tap position

3. SPECIFICATION

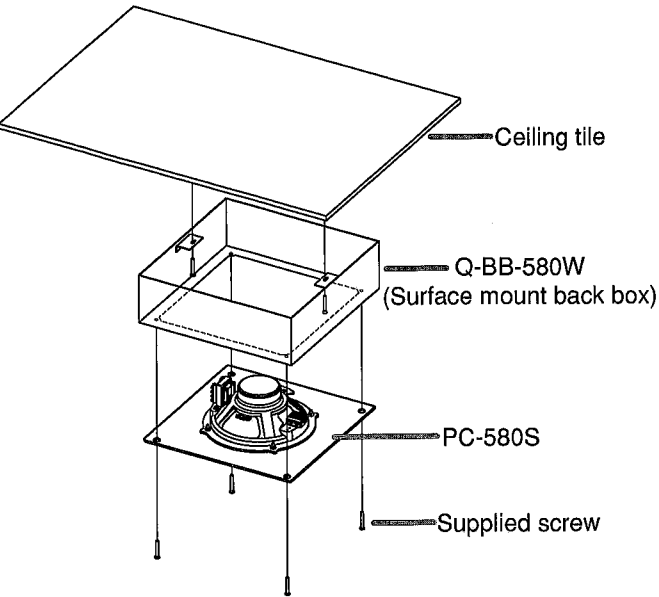
Model No.		PC-580S
Rated Input		5 W (70.7 V line and 25 V line)
Rated Impedance	70.7 V line	1 kΩ (5 W), 2 kΩ (2.5 W), 5 kΩ (1 W), 8.3 kΩ (0.6 W), 16.6 kΩ (0.3 W)
	25 V line	125 Ω (5 W), 250 Ω (2.5 W), 625 Ω (1 W), 1 kΩ (0.6 W), 2 kΩ (0.3 W)
Sensitivity		97 dB (1W, 1m)
Frequency Response		50 Hz - 16.5 kHz
Speaker Component		200 mm (8") Dual cone type
Magnet Size		ø80 x ø32 x 15 mm (ø3.15" x ø1.26" x 0.59")
Magnet Weight		315 g (11.11 oz)
Flux Density		11,300 gauss
Operating Temperature		-10 to +50 °C (14 to 122 °F)
Dimension of Fixing Hole		Mounting hole: ø228.6 ± 3mm (ø9" ± 0.12")
Applicable Cable		Solid wire: ø0.8 – ø1.6 mm (AWG 20 - 12)
Connection		Push wire connection (Bridging terminal-2 branch type)
Finish		Panel: Steel plate, white, paint
Dimensions		318 x 318 x 87 mm (12.52" x 12.52" x 3.43")
Weight		1.90 kg (4.19 lbs)
Accessory		Mounting screw M5 x 38 4, Paper pattern 1
Option		Flush mount back box: Q-BB-580S
		Surface mount back box: Q-BB-580W

4. INSTALLATION

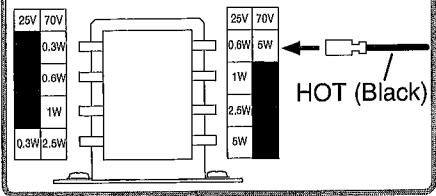
[Flush mount]



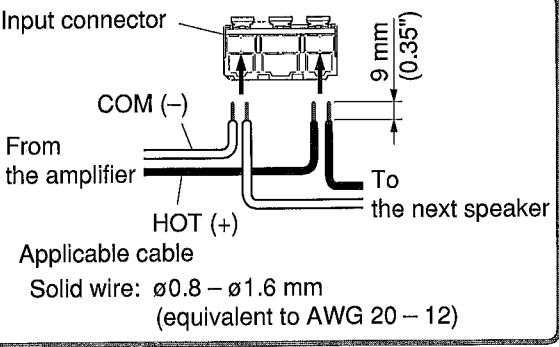
[Surface mount]



Matching transformer



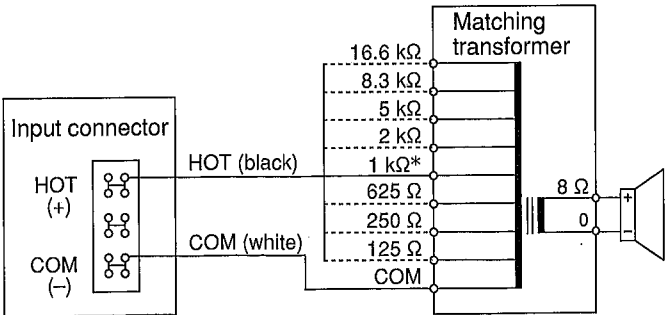
PC-580S



5. WIRING DIAGRAMS

The speaker's input is factory preset to 5W at 70 V line. Make sure to connect an appropriate black wire to tap wattage on matching transformer and reinsert it into the desired input tap.

Impedance	125 Ω	250 Ω	625 Ω	1 k Ω	2 k Ω	5 k Ω	8.3 k Ω	16.6 k Ω
70.7 V line	-	-	-	5W	2.5W	1W	0.6W	0.3W
25 V line	5W	2.5W	1W	0.6W	0.3W	-	-	-



* Factory-preset 5W (1k Ω) at 70 V line.