

INSTRUCTION SHEET #IS-ES4T-ES62T Recessed Ceiling Speaker Systems

ES-4T SPECIFICATIONS

Driver Type: 4" Dual Cone (with whizzer HF) Power Rating: 25 watts (EIA Standard 426B)

Frequency Response: 126Hz - 20kHz + 6dB Sensitivity: 85.7dB SPL (8Ω, 1W@1M)

Dispersion: 135° conical (-6dB @ 2kHz octave)

Available Transformer Taps: 100V (16W, 8W, 4W, 2W taps), 70V (16W, 8W, 4W, 2W, 1W taps), 25V (2W, 1W,

.5W, .25W, .13W taps)

ES-62T SPECIFICATIONS

Driver Type: 6-1/2" Coaxial

Power Rating: 50 watts (EIA Standard 426B) Frequency Response: 64Hz - 20kHz + 6dB

Sensitivity: 88.6 dB SPL (8Ω. 1W@1M)

Dispersion: 120° conical (-6dB @ 2kHz octave) Available Transformer Taps: 100V (32W, 16W, 8W, 4.2W taps), 70V (32W, 16W, 8W, 4W, 2W taps), 25V

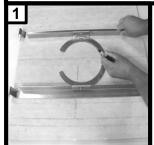
(4.4W, 2.2W, 1.1W, .55W, .28W taps)

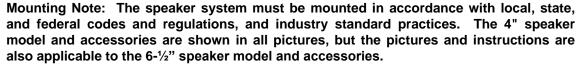




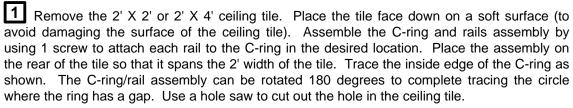
UL1480 5th EDITION GENERAL SIGNALING CSA C22.2 NO. 205-M1983, UL2043 SUITABLE FOR USE IN PLENUM SPACES

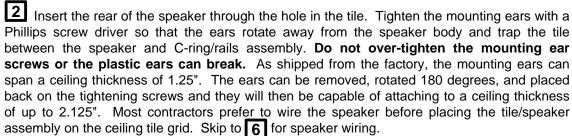








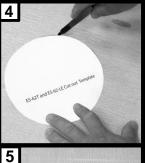






New Drywall (Sheetrock) Ceiling

On a new construction project, it is best to install a rough-in bridge before the drywall ceiling is installed. The ES-4-RIB rough-in bridge (sold separately for use with the ES-4T) and the ES-6-RIB rough-in bridge (sold separately for use with the ES-62T) are available for this purpose. Holes are provided on the bridge on twenty-four (24) inch centers and sixteen (16) inch centers for mounting to the bottom of the joists, rafters, trusses, metal rails or other ceiling support structure. Screw types required to mount the bridge vary widely depending on the construction of the ceiling structure so mounting screws are not included and will be supplied by the installer. Mount the bridge with the lip facing downward toward the floor. When the ceiling contractor installs the drywall, the lip will be used as a router guide to cut the hole in the ceiling that is required to install the speaker. Skip to 6 for speaker wiring.



Existing Drywall (Sheetrock) Ceiling

When installing the ES-4T or ES-62T in an existing drywall ceiling, it is important before cutting the hole, to confirm that there are no obstructions above the drywall ceiling that would prevent the speaker from being installed at your chosen location. Once the location has been chosen and it has been determined that no obstructions exist, use the cardboard template provided to trace the cut-out circle on the ceiling.



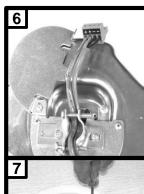
Use a saw to cut the hole. For a drywall ceiling, the support rails provided need not be used, but it is recommended that the "C ring" be used to support the cut-out edge of the drywall. The gap in the C-ring allows the ring to be maneuvered into position as shown.

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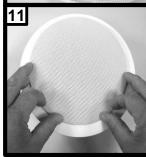




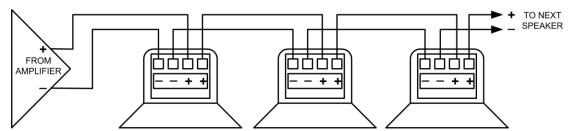








Using a Phillips screwdriver, open the screw on the wiring cover on the rear of the speaker, slide open the cover, and remove the plug-in connector. Two (2) parallel "-" terminals and two (2) parallel "+" terminals are available for input wiring to the speaker and for output wiring to the next speaker in the string. The wiring schematic for a typical 25V, 70V, or 100V speaker system is shown in the diagram below:



For use in a speaker system without using the internal matching transformer, one cable should run from the output of an 8 ohm maximum 25 watt amplifier to one ES-4T speaker only, or from the output a 4 ohm maximum 50 watt amplifier to one ES-62T speaker only. Wiring the speaker system in a series/parallel configuration may be acceptable depending upon the amplifier used, but that wiring method is not covered in this installation manual.

Run the cable through the metal clamp strain relief and make the wiring terminations on the plug-in connector. Plug the connector back in on the rear of the speaker, tighten the metal strain relief clamp, and close the wiring cover.

NOTE: Lowell Manufacturing recommends that a suitable safety cable be attached from the ring that is supplied on the rear of the speaker enclosure to the building structure. In some areas of the country, building codes require this type of "safety cable" or "earthquake cable". Refer to applicable building codes for safety cable requirements.

For a tile ceiling installation the speaker is mounted to the tile and C-ring/rail assembly before the wiring is terminated (as was already described in step 2). At this point, place the speaker/tile/C-ring assembly on the ceiling grid.

7 For a drywall ceiling installation, push the rear of the speaker through the hole in the ceiling making sure that the mounting ears line up with the C-ring (and not with the gap in the C-ring). Tighten the mounting ear screws with a Phillips screw driver so the ears rotate away from the speaker body and clamp the speaker to the ceiling and the C-ring. WARNING: Do not over-tighten the mounting ear screws or the plastic ears can break. As shipped from the factory, the mounting ears can span a ceiling thickness of 1.25". The ears can be removed, rotated 180 degrees, and placed back on the tightening screws and they will then be capable of attaching to a ceiling thickness up to 2.125".

8 Using a flat blade screwdriver, set the transformer tap select switch on the desired position (see the tap chart on the face of the speaker). Note: Do not use an 8Ω or 4Ω switch position when using the speaker level output from a 25V, 70V, or 100V amplifier.

Note: If custom paint is not required, skip to step 11.

Use the plastic shipping cover as a paint shield and spray paint the front trim ring.

Carefully peel off the white scrim material before painting the grille. Spray paint the grille with a few light coats being very careful not to clog the holes in the grille with paint. After the paint on the grille is dry, replace the scrim using a light coat of all-purpose spray adhesive.

11 Press on the front grille until it is flush with the trim ring and the installation is complete.