Installation Sheet
1x2 LT-Pro Series Speakers
LT-8A-Vb, LT-8A-T870-Vb

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c UL us LISTED 4M24

FIGURE 1

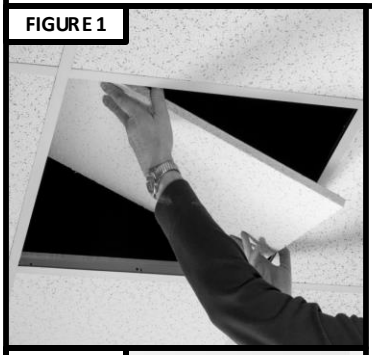


FIGURE 2

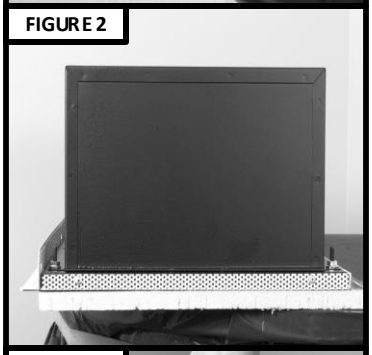


FIGURE 3

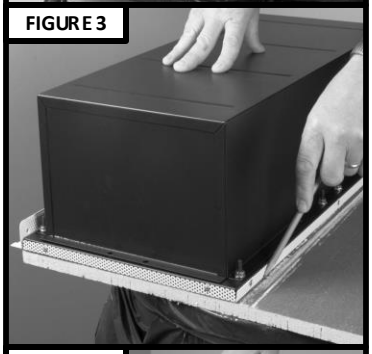


FIGURE 4

LT-Pro Series Speakers:

The Lowell LT-Pro Series 1' x 2' speakers feature an integral T-bar that allows the speaker to quickly replace ½ of a non-tegular 2' x 2' lay-in ceiling tile, or ¼ of a non-tegular 2' x 4' lay-in ceiling tile. Note: A tegular ceiling tile protrudes slightly below the lay-in ceiling grid. Cutting a tegular tile results in an unfinished edge that can be seen from the office below. For a ceiling with 2' x 2' tegular ceiling tiles, a better choice would be to use the Lowell LT-Pro Series 2' x 2' speakers which don't require the tegular tile to be cut. The LT-8A-Vb and LT-8A-T870-Vb speaker systems are UL Listed in the USA for UL1480 5th Edition General Signaling for indoor dry use, UL2043 suitable for use in a return air plenum space, and CSA C22.2 No. 205-12 for use in Canada. Note that all instructions and pictures in this installation sheet refer to 2' x 2' non-tegular tiles. The same procedure may be followed for a 2' x 4' non-tegular ceiling tile.

LT-Pro Series 1' x 2' Speaker Installation:

Installation Note:

The LT2-Pro speaker systems must be installed and wired in accordance will all local, state, and federal building codes and regulations, and the installation must conform with industry standard practices.

STEP 1

Remove a 2' x 2' non-tegular ceiling tile as shown in **FIGURE 1**.

STEP 2

Lay the ceiling tile face-down on a soft surface that won't damage the front of the tile. Place the LT-Pro 1' x 2' speaker face-down on the rear of the ceiling tile with the protruding T-bar piece lined up with the edge of the tile as shown in **FIGURE 2** . Mark the ceiling tile at the speaker edge with a pencil as shown in **FIGURE 3**.

STEP 3

Cut the ceiling tile with a saw or other cutting tool as shown in **Figure 4**. Discard the portion of the ceiling tile that was under the speaker when the line was drawn and keep the other portion to be reinstalled.

STEP 4

For the 8-ohm LT-8A-Vb model, use wire nuts or crimp connectors (furnished by the installer) to connect the white wire to the incoming "+" positive conductor and the black wire to the incoming "-" negative conductor. Normally this can be done without removing the wiring cavity termination plate and the completed splice can simply be shoved through the Romex hole before the Romex clamp is tightened. For the LT-8A-T870-Vb that includes a 70V transformer where more wires are involved, it may be easier to remove the termination cover before making the splice. The 70V transformer tap color code is given on the side of the enclosure. Use wire nuts or crimp connectors (furnished by the installer) to connect the chosen colored transformer 70V primary tap wire to the incoming "+" positive conductor and the black (common) wire to the incoming "-" negative conductor. Always cut the tinned portion of the unused tap wires off and insulate the leads (with electrical tape or other insulators) to keep them from shorting out to each other or to any other metal surfaces.

STEP 5

Lowell Manufacturing recommends that a safety cable (furnished by others) always be used when speakers are installed over-head. In certain areas of the country, the building inspector (AHJ - Authority Having Jurisdiction) may require that one (1) or two (2) earthquake restraint cables be attached between the speaker and the building structure. One (1) restraint cable tab is supplied that can be bent up with a screwdriver as shown in **FIGURE 5**. Three additional holes for restraint cables are available on the integral T-bar rail.

STEP 6

Place the speaker in the open 2'X2' hole in the ceiling with the integral T-bar in the center of the hole as shown in **FIGURE 6**.

STEP 7

Place the cut half tile (from **STEP 3**) in the half open hole as shown in **FIGURE 7**. It may be necessary to remove the adjacent tile so you can push the half tile in place.

STEP 8

If earthquake restraint cables are required, use an adjacent tile opening to get above the ceiling to attach the cables to structure. Most AHJs require restraint cables attached to opposing corners as shown in **FIGURE 8**.

FIGURE 5

FIGURE 6

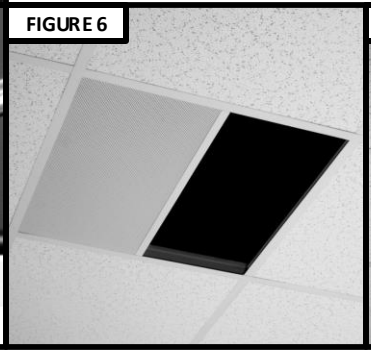


FIGURE 7

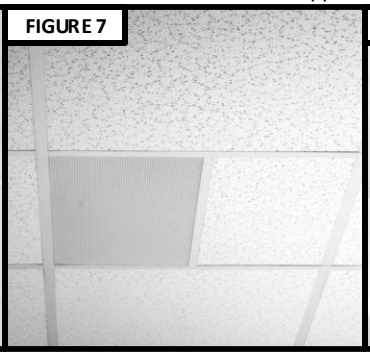
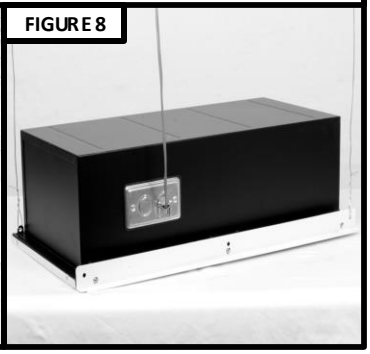


FIGURE 8



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