

The SPP2 is a full-duplex speaker post, primarily for use in quick-service operations. The SPP2 accommodates the following HME speakers: SP7000, SS7000, or SP10, and the DM5 microphone.

These instructions are for standard installation of the SPP2 at drive-thru sites. The SPP2 is easy to assemble and mount according to the following instructions. For unusual mounting situations, special mounting kits can be ordered. SPP2 installations should take approximately one hour maximum.

CAUTION: All electrical connections must be made by a licensed electrical contractor.

When installation of the SPP2 Speaker Post and the drive-thru audio system have been completed, a functional check of the SPP2 should be done according to the audio system installation instructions. If any problem occurs that can not be corrected according to the troubleshooting guide in the audio system installation instructions, call HME Customer Support at 1-800-848-4468.

INSTALLATION REQUIREMENTS

Tools Required:

- Phillips (crosspoint) #2 screwdriver
- Standard (slotted) screwdriver
- Hexagonal ball driver, 1/8 inch (3.18 mm)
- Nut drivers; 5/16, 3/8 and 7/16 inch (7.94, 9.52 and 19.05 mm)
- Socket wrenches; 3/8, 3/4 and 7/16 inch (9.52, 11.11 and 19.05 mm)
- Wire nuts or soldering iron with solder and electrical tape
- A high-speed drill with a 1/2 inch (12.7 mm) masonry bit may be required
- Knife to cut foam

Materials Required:

Audio Cable (not included)
Acoustic Foam (not included)

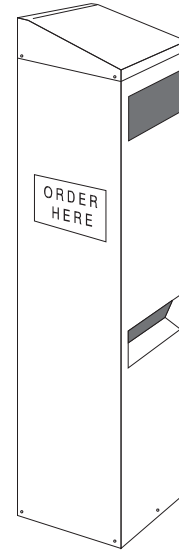


Figure 1.
SPP2 Speaker Post

Preparation Required:

A concrete slab must already be in place. At new installation sites it should have been installed by a contractor, specifically for the SPP2 Speaker Post (see Concrete Foundation IG 400G262). At some older installation sites, the SPP2 may be installed where another speaker post previously existed.

At new installation sites, there should be four threaded metal studs embedded in the concrete, in a 6-inch (152.4 mm) square pattern. At least two conduits should have been installed in the center of the slab, between the four studs. An additional conduit with electrical wires may also have been installed for light connections.

At older installation sites, configuration of the concrete slab may vary. For some SPP2 installations, an adapter plate may be required. For other installations, it may be necessary to saw off existing studs and replace them with new ones in the appropriate configuration. These procedures are discussed in the non-standard installation section of step 7.

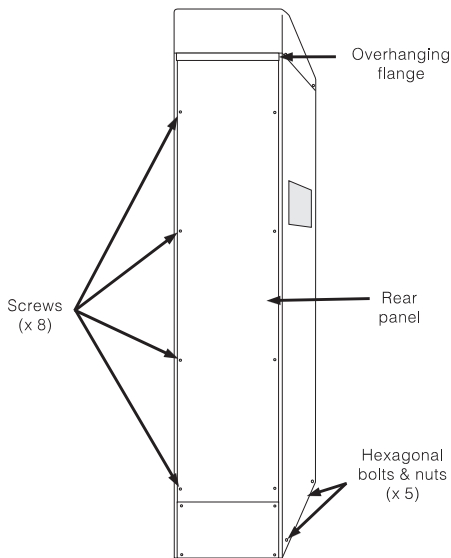


Figure 2.
SPP2 Rear View

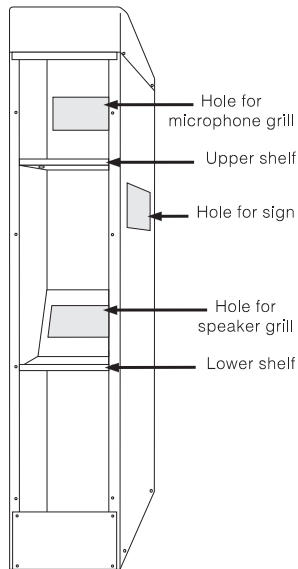


Figure 3.
SPP2 rear view with rear panel removed

INSTALLATION PROCEDURE

For ease of assembly, locate a clean area where the speaker post can be laid down to be worked on without scratching its finish. Its shipping carton can be flattened on the ground and used as a work surface.

Open the Speaker Post:

1. Remove the eight Phillips (crosspoint) screws from the rear panel of the speaker post as shown in Figure 2. Pull the rear panel away

from the speaker post and slide it downward, out of the overhanging flange to remove it. Set the screws and the rear panel aside. With the rear panel removed, the inside of the speaker post should appear like Figure 3.

Install the Speaker and Microphone Grills:

2. Follow these instructions to install the speaker and microphone grills (K18593) as shown in Figure 4, and in step 6 to install the ORDER HERE sign as shown in Figure 9.

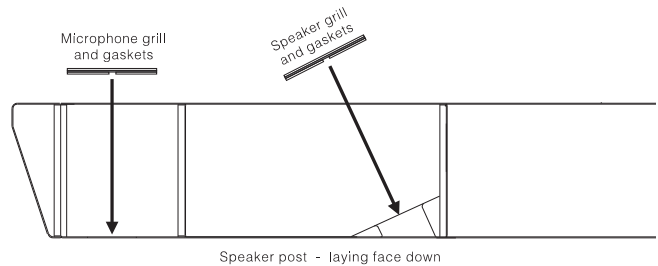


Figure 4.

Install the two grills in the speaker post

The speaker grill is the flat, metal grill sandwiched between two gaskets, and marked "SPKR." The microphone grill has a rectangular area that is raised on one surface. It is sandwiched between two gaskets, and marked "MIC." Install the two grills in the speaker post as follows:

Install the Microphone Grill

- i. Peel the paper off the two "T" shaped gaskets on one side of the grill to expose their self-adhesive surfaces.
- ii. Position the grill over the opening near the inside, top of the speaker post as shown in Figure 5A, so the adhesive side of the gasket is toward the outside, front of the speaker post. The gasket with the round hole should be facing you as you look into the back of the speaker post, with the opening in the circle pointing down. Align the two rubber grommets in the sides of the grill with the two threaded studs on each side of the grill opening, and press firmly on the rubber grommets until they are all the way down over the studs. Be careful not to push the grommets out of their mounting holes. Rub the surface of

the gasket so the adhesive on the front gasket will stick evenly to the metal on the speaker post.

- iii. Place two of the enclosed flat washers over the studs, and fasten them in place with two of the enclosed hexagonal nuts. Do not over tighten the nuts, or you may damage the grommets.

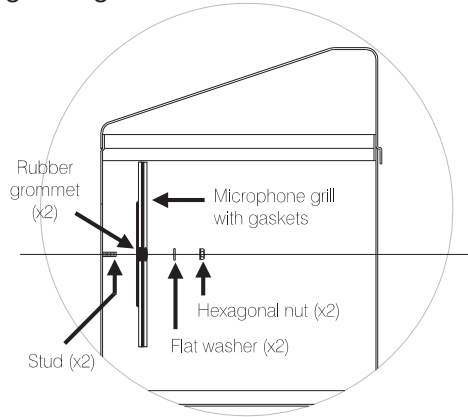


Figure 5A.

Install the Speaker Grill

Repeat steps i - iii and see Figure 5B.

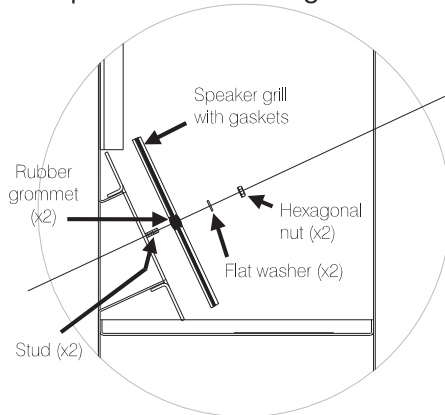


Figure 5B.

Install the Microphone Unit

3. Install the microphone above the upper shelf of the Speaker Post in the position shown in Figure 6 as follows:
 - i. Remove the small portion of the provided foam microphone enclosure, resulting in the two pieces of foam.
 - ii. Insert the DM5 Microphone cable through the hole in the foam enclosure, and place the microphone into the hole.
 - iii. Insert the removed piece of foam back into the hole in the foam enclosure to fit snugly

against the back of the microphone.

- iv. Using a serrated knife, trim the foam enclosure so it is $\frac{1}{4}$ to $\frac{1}{2}$ inch larger than the upper speaker post compartment, vertically and horizontally, for a compressed fit. Retain the foam pieces to add to acoustic foam to fill the speaker post compartment, if needed.
- v. Place the foam windscreen in front of the microphone, positioning it so it will cover the inside of the speaker grill.
- vi. Place the microphone, in its foam enclosure, into the upper compartment of the speaker post, so the front of the foam windscreen is flush against the metal, centered on the grill.

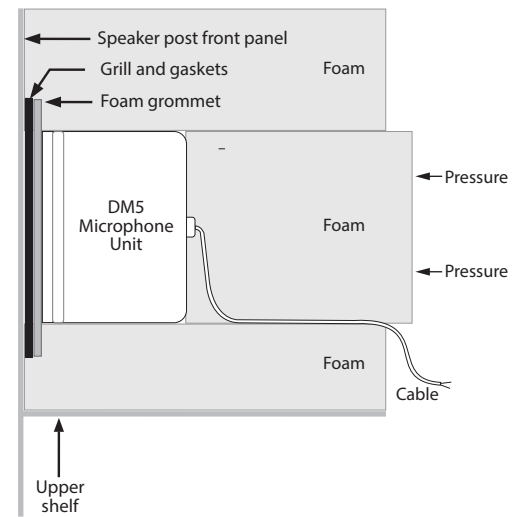


Figure 6.

Microphone unit installation in the SPP2

Install the Speaker Unit

4. Install the speaker above the lower shelf of the Speaker Post in the position shown in Figure 6 as follows:
 - i. Position the unit inside the speaker post with the gasket centered against the inside of the grill. Align the gasket opening with the grill opening.
 - ii. Remove both inserts from the molded foam enclosure and place the foam enclosure around the unit. Trim foam with a serrated knife if necessary. Place removed foam inserts behind speaker to provide pressure to the unit, to ensure a good gasket seal against the grill opening.

- iii. Verify that all gaps around and behind the unit are now packed with foam so as to hold the unit firmly in place and prevent any movement.

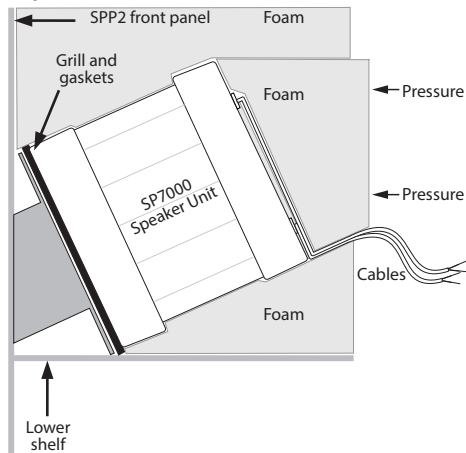


Figure 7.
Speaker unit installation in the SPP2

Pack Foam Around the Microphone Unit

5. Use the enclosed foam pieces as acoustic treatment around the microphone unit as shown in Figure 8. Pack the foam around the top, sides and back of the microphone unit, filling the upper compartment before closing the speaker post.

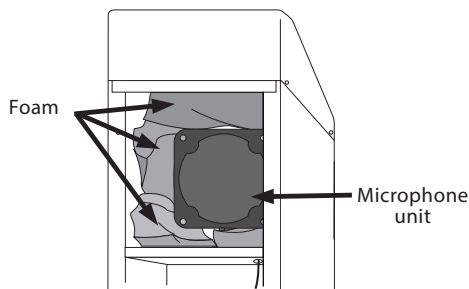


Figure 8.
Foam packed around top and sides of microphone unit in upper compartment of speaker post

Install the Sign

6. Install the ORDER HERE sign inside the speaker post, over the hole below the upper shelf as follows:
 - i. Position the sign on the inside of the speaker post, over the rectangular sign hole, so it will be read correctly from outside the speaker post when the post is standing upright, as shown in Figures 1

and 9. Be certain the four threaded studs near the corners of the hole go through the four holes in the sign.

- ii. Place one of the enclosed flat washers over each of the four studs, and fasten each washer in place with one of the enclosed hexagonal nuts.

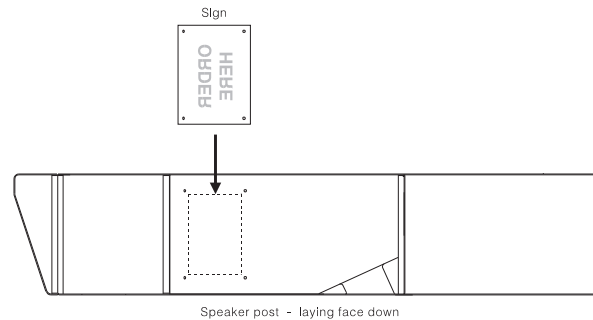


Figure 9.
Install the sign in the speaker post

Install the Mounting Plate (K18403)

(Standard Installation on Concrete Slab with Four Mounting Studs in 6" (152.4 mm) Square Pattern).

7. If the concrete slab has four threaded metal studs in a 6 inch (152.4 mm) square pattern, the standard mounting plate included with the speaker post will be installed as described below. Refer to Figure 10.
 - i. Put one of the enclosed leveling nuts and a washer on each of the four threaded, metal studs on the concrete slab.
 - ii. Position the mounting plate on the concrete slab as shown in Figure 10, with its front end toward the drive-thru lane and the four studs going through the four largest holes in the plate. Use a level to adjust the positions of the leveling nuts until the plate is level.
 - iii. Put a second washer on each of the studs, over the mounting plate.
 - iv. Screw one of the four enclosed 1/2 inch (12.7 mm) hexagonal nuts onto each of the studs, and tighten them in place with a socket wrench.
 - v. Spray or coat the studs and nuts with an anti-rust compound such as WD-40.

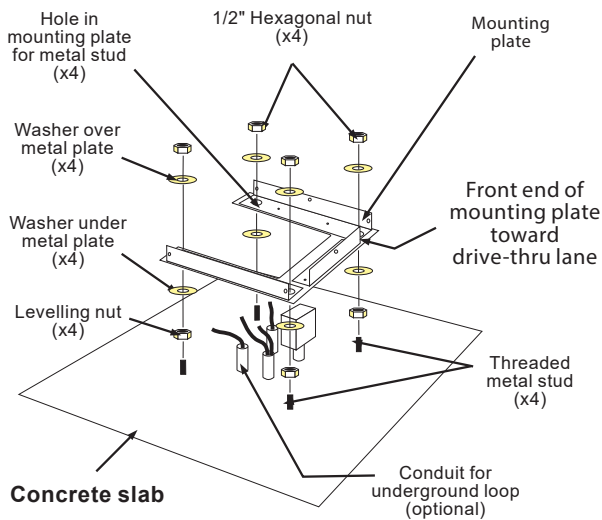


Figure 10.

Placement of mounting plate on concrete slab

Non-standard Installation on Concrete Slab with No Mounting Studs, or Studs in Irregular Pattern That Will Not Fit Mounting Plate or Adapter.

If there are no studs in the concrete slab, or if there are studs in the concrete slab, but they are not arranged in a pattern that will fit the mounting plate, use HME mounting kit (K18650) with self-expanding anchor studs. This kit is not included and must be ordered separately. Call HME at the number listed on page 1.

- i. If studs exist but they are not arranged in a pattern that fits the mounting plate, cut the studs off flush with the concrete surface.
- ii. Drill four holes in the slab with a 1/2 inch (12.7 mm) masonry drill bit in a high-speed drill, in a 6-inch (152.4 mm) square pattern.
- iii. Install the four self-expanding anchor studs in the holes in the concrete slab.
- iv. Install the standard mounting plate that comes with the speaker post according to first section of step 7 (before Figure 10).

Install the Speaker Post on the Mounting Plate

8. Position the speaker post over the mounting plate as shown in Figure 11. Angle the inside-front of the post against the front of the mounting plate, then straighten the post over the plate. Reinstall the five hexagonal bolts and nuts that were removed from the holes at the bottom-front and sides of the speaker post, and tighten them in place with a socket wrench.

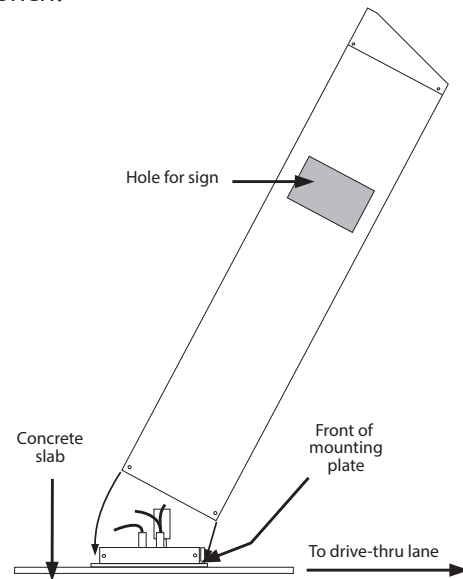


Figure 11.

Positioning of speaker post on mounting plate

Connect the Cables/wires in the Speaker Post

9. Splice the cable wires from the microphone and speaker inside the speaker post to the microphone and speaker wires from the two audio cables coming through the conduit into the the speaker post, according to color codes. Be certain to connect the microphone and speaker to separate audio cables to prevent feedback. All splices must be soldered and covered with electrical tape.

If any AC electrical wiring is required in the speaker post, be certain it is done by a licensed contractor.

Electrical wire color codes are as follows:
green = ground, black = hot, white = common.

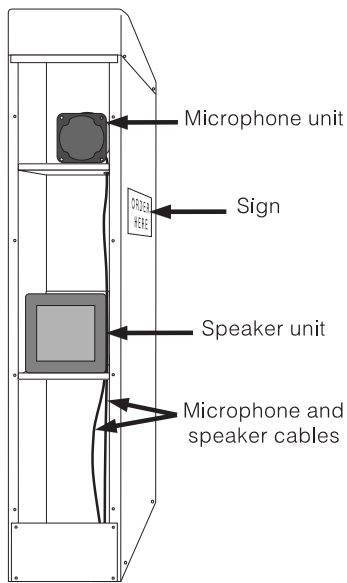


Figure 12.

SPP2 Speaker Post with all standard and optional components installed

Close the Speaker Post

10. Refer to Figure 2. Replace the rear panel of the speaker post by sliding it upward, under the overhanging flange near the top-rear of the speaker post. Fasten the panel in place and install the eight enclosed security screws through the holes in the panel into the speaker post.

CLEANING AND MAINTENANCE

To clean the SPP2 speaker post, use a damp cloth or sponge with cleaning solution on it.

IMPORTANT: Do not spray water or cleaning solution directly on the speaker or microphone grill.

Do not use a hose to clean the speaker post.

Refer to the drive-thru audio system operating/installation instructions for speaker and microphone maintenance and/or troubleshooting instructions.

SPECIFICATIONS

Speaker Post

Dimensions: 43"H x 8"W x 9"D (109.2 cm x 20.3 cm x 22.9 cm)

Material: Steel with zinc based paint

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