



Chick-fil-A Speaker Post Retrofit

INSTALLATION INSTRUCTIONS

These instructions are for the speaker post retrofit on a Uni-Structure housing for use with the HME EOS|HD Drive-Thru Audio System at existing Chick-fil-A stores.

1. RETROFIT OVERVIEW

The retrofit procedure described in this manual is performed on drive-thru lanes with existing microphone and speaker enclosures located on a mounting post (see **Figure 1**).

The retrofit requires that you disconnect the current speaker from the bottom enclosure, and then route that speaker's wire connection to the upper enclosure. The removed speaker will be relocated to the upper enclosure within a new acoustic foam casing.

The existing microphone in the upper enclosure will be removed and then encased in foam within the newly attached casing above the upper enclosure (see **Figure 2**). The lower enclosure will no longer be used.



Figure 1. Before Retrofit



Figure 2. After Retrofit

2. PREPARATION FOR INSTALLATION

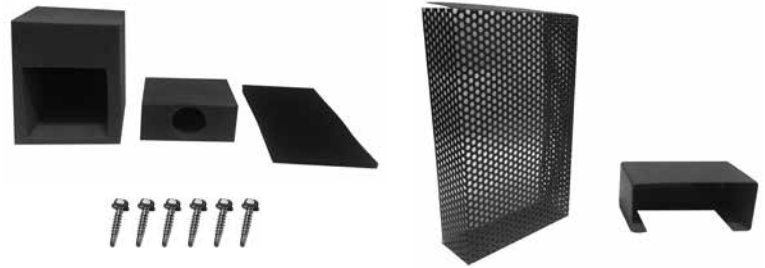
Before you begin, review the Tools and hardware needed to complete the job.

2.1 Tools and Accessories Required

- Phillips screwdriver or battery powered driver with Phillips bit (recommended)
- Socket set (for powered driver recommended)
- 100 foot Extension cord (if using tools that require AC power)
- Wire cutter/stripper
- Soldering iron and rosin-core solder
- Small, twist-on or crimp wire connectors (3)
- Sanitary wipes or a cleaning solution and paper towels



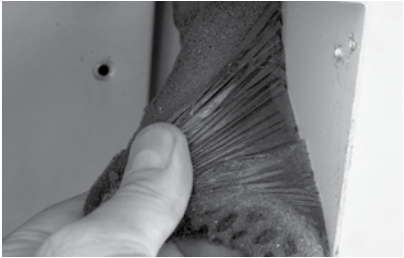

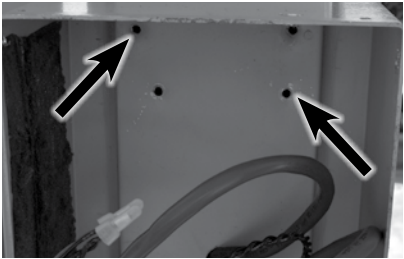


2.2 Equipment Needed

- Speaker Foam, Microphone Foam, and Windscreen for Grill
- Speaker Grill (Upper)
- Aluminum Microphone Enclosure
- 6X #10 x .5" TEK Screws



2.3 Removing Old Hardware







<p>1. Before you begin, you'll need to disconnect the microphone and speaker connection within the EOS HD Base Station located in the store. Confirm the base station location with the store manager or crew.</p> <p>Open the base station by pressing down the two latches on the top. Disconnect the 8 pin connector for ONLY the lane you will retrofit (J6 = Lane 1, and J14 = Lane 2).</p>	
<p>2. Unscrew the screws and/or hexagonal bolts holding the grill on the lower speaker enclosure, and then remove the grill and set it aside.</p>	
<p>3. Remove the speaker from the foam housing, and then disconnect the speaker wire connector.</p> <p>Re-attach the lower grill with the existing foam still inside.</p>	
<p>4. Unscrew the screws or hexagonal bolts holding the grill on the upper enclosure. Remove the grill, and set it aside.</p>	

<p>5. Remove the existing microphone from foam casing in the upper enclosure.</p>	
<p>6. If the microphone connection has been disconnected from the Base Station (as mentioned in Step 1), cut the microphone wire to a suitable length for splicing with the existing microphone connection.</p>	
<p>7. Remove all foam from the upper enclosure. The inside of the enclosure must be cleared well enough to allow the new acoustic foam to slide in properly.</p> <p>Note: Some foam may be adhesive, requiring extra effort to remove. If the adhesive does not peel off cleanly (as displayed), clear away as much as possible to allow the new foam to slide into the enclosure.</p>	
<p>8. Locate and remove the hardware that holds the speaker post assembly onto the drive-thru post. You will need access to the back of the post assembly, in order to route the speaker wire to the upper enclosure.</p> <p>Other locations for the hardware attaching the post may be found inside both upper and lower enclosures.</p> <p>Note: You may need to remove signage or other like panels before gaining access to the back of the post assembly.</p>	 
<p>9. Feed the speaker wire from the lower speaker enclosure through the access hole in the upper enclosure. Both the speaker and microphone wires should now be available in the upper enclosure.</p>	
<p>10. Secure the speaker post assembly back onto the post.</p>	

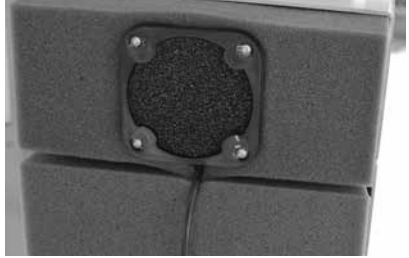





3. MICROPHONE AND SPEAKER INSTALLATION

At this time, the upper enclosure should be empty and ready to begin installation of the microphone and speaker.

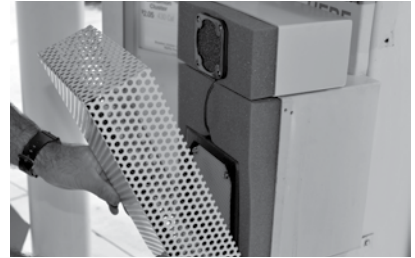
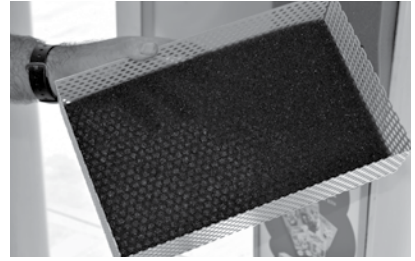
3.1 Insert Foam and Position Enclosures

<p>1. Feed both the speaker and microphone connectors through the hole in the back of the acoustic speaker foam.</p>	
<p>2. Insert the foam into the upper enclosure with both wires available for connection.</p>	
<p>3. Wipe clean the top of the speaker enclosure to ensure that the microphone enclosure's double-stick tape will adhere to the surface.</p>	
<p>4. Insert the microphone foam into the microphone enclosure.</p> <p>For positioning purposes, place the microphone enclosure on top of the speaker enclosure, and line it up so both pieces of foam are flush with one another.</p> <p>If necessary, mark the position with a pen or marker.</p>	
<p>5. Remove the double-stick tape liner, and then mount the microphone enclosure on top of the speaker enclosure. The foam inserts for the speaker and the microphone should now be flush.</p>	 

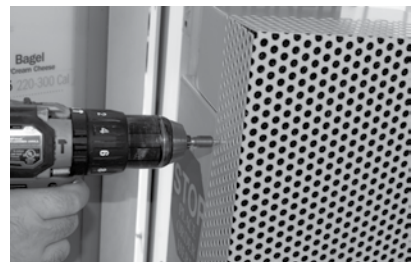
3.2 Connect and Install the SP10 Speaker and Microphone

<p>1. Insert the microphone into the acoustic foam with the cable routed in front of the speaker enclosure.</p>	 A close-up photograph showing a microphone with a black mesh grille mounted inside a grey acoustic foam enclosure. The microphone is secured with four screws. A cable is visible extending from the bottom of the enclosure.
<p>2. Prepare the wire by cutting back the outer jacket about three inches, then cut back the wire insulation to expose about 1/2" of wire.</p> <p>Prepare the existing microphone cable in the same manner.</p> <p>The green and white wires on the existing connection will not be used, so cut both wires flush with the outer jacket.</p>	 A close-up photograph of a person's hands using wire cutters to strip the outer jacket of a black cable. The cutters are positioned to cut the jacket about three inches back.
<p>3. Twist together and solder the matching wires (black to black, red to red, shield to shield).</p> <p>Use three twist-on or crimp wire connectors to isolate and protect each soldered connection.</p> <p>If necessary, use zip ties to secure the wires.</p>	  Two photographs showing the wiring process. The top photo shows a person using a soldering iron to connect the stripped wires. The bottom photo shows a person using a crimp wire connector to secure the connection.
<p>4. Connect the existing green connector plug into the speaker, then insert the speaker into the foam, so the front of the speaker is flush with the front of the foam.</p> <p>The microphone and speaker should be flush in their foam casings, and the microphone wire should be tightly routed behind the speaker.</p>	  Two photographs showing the final assembly. The top photo shows a person inserting a green connector plug into the back of the speaker. The bottom photo shows the completed assembly with the speaker and microphone flush in their foam casings, and the microphone wire routed behind the speaker.

5. Insert the windscreen into the new grill, then place the new grill over the speaker and microphone enclosure.



6. Using the existing holes in the upper speaker enclosure, secure it in place with the self-tapping screws provided (two screws per side).

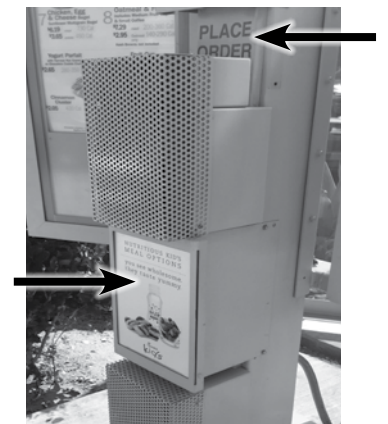
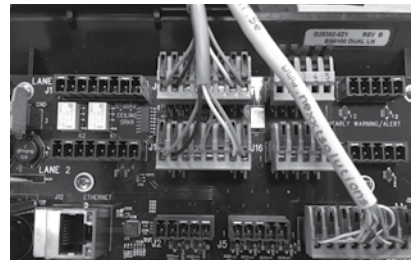


7. Using a power driver, secure the new grill to the microphone enclosure with the self-tapping screws (one per side).



8. FINAL STEPS:

- If possible, make more visible the “Place Order Here” sign. It may now be obstructed by the new microphone enclosure.
- Reinstall any signage removed earlier.
- Return to the store to reconnect the microphone and speaker 8-pin connector on the base station.
- Work with the store crew to test the system.
- Repeat the process for the second Drive-Thru lane (if applicable).



If you experience difficulties, call HME Technical Support at 1-800-848-4468.

Waste Electrical and Electronic Equipment (WEEE)

The European Union (EU) WEEE Directive (2002/96/EC) places an obligation on producers (manufacturers, distributors and/or retailers) to take-back electronic products at the end of their useful life. The WEEE Directive covers most HME products being sold into the EU as of August 13, 2005. Manufacturers, distributors and retailers are obliged to finance the costs of recovery from municipal collection points, reuse, and recycling of specified percentages per the WEEE requirements.

Instructions for Disposal of WEEE by Users in the European Union

The symbol shown below is on the product or on its packaging which indicates that this product was put on the market after August 13, 2005 and must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of the user's waste equipment by handing it over to a designated collection point for the recycling of WEEE. The separate collection and recycling of waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local authority, your household waste disposal service or the seller from whom you purchased the product.



Acoustic Foam

**Do Not
Discard**

Reverse side contains Installation Instructions