

Quick Reference Installation Guide

NEXEO | HDX™ SP7000 OUTSIDE SPEAKER/IB

The SP7000 is a speaker used to connect the loop and microphone to a NEXEO® Base Station. It is designed for use in Quick Service Restaurant (QSR) menu boards, speaker posts, and enclosures.

Tools/Equipment Required

- General hand tools: screwdrivers, cutters, pliers, etc.
- Cable/wire terminating tools and wire strippers.
- Audio Cable (not included).
- Acoustic Foam (not included) and knife to cut foam.

NOTE: The SP7000 must be mounted vertically inside the speaker post/enclosure (arrows on the rear indicate upright position, see Fig. 2). The power LED illuminates green when it is connected to a powered on base station. The connect LED illuminates green when there is data communication. For optimal performance and maximum volume, the maximum cable length should not exceed 500 ft (152 m).

These instructions are for a typical installation.

NOTE: The cable shield/drain must be terminated on all connections.

1. Strip approximately 1 inch (25.4 mm) of insulation from the end of the audio cable and ¼ inch (6.35 mm) of insulation from each of the cable wires (do not tin the wires). Connect the cable wires to the connector plug.
2. Position the speaker inside the speaker post or menu board, with the gasket centered against the inside of the speaker grill; see Fig. 3. Align the opening in the gasket with the grill opening.
3. Remove both inserts from the molded foam enclosure and place the foam enclosure around the speaker. Trim foam with a serrated knife if necessary. Place removed foam inserts behind speaker to provide pressure to speaker, to ensure a good gasket seal against the speaker grill opening.
4. The 2-pin LOOP connector connects to the ground loop detector. See Fig. 4.
5. The 3-pin BASE connector connects to J4500 on the base station PCBA. See Fig. 4 and Table 2.
6. The 7-pin MIC connector connects to the DM5 microphone. See Fig. 4 and Table 1.

NOTE: MIC2 is not functional on this connector.



Fig. 1

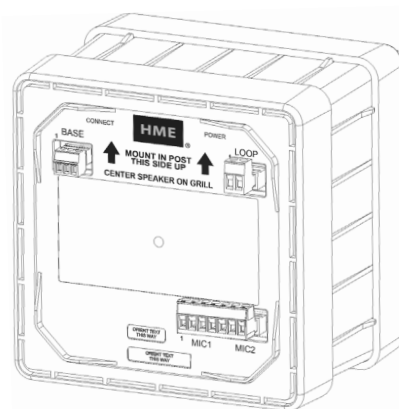


Fig. 2

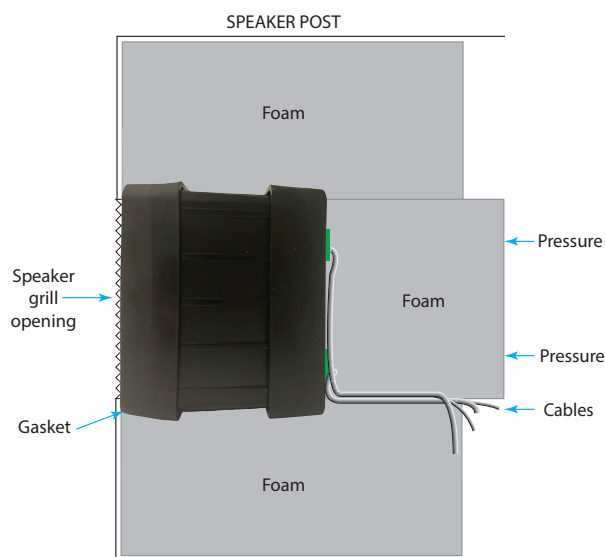


Fig. 3

DM5 Microphone to SP7000 MC1	
Microphone + (red wire)	Pin 1: Mic 1+
Microphone - (black wire)	Pin 2: Mic 1-
Shield	Pin 3: GND

Table 1

NOTE: Only use MIC1, MIC2 pins 4-7 are not used.

SP7000 BASE to Base Station J4500	
Pin 1: PL+ (Red wire)	Pin 1: Spkr/Mic PL +
Pin 2: PL - (Black wire)	Pin 2: Spkr/Mic PL -
Pin 3: GND (Shield)	Pin 3: GND/Shield
	Pin 4: Spkr/Mic PL +
	Pin 5: Spkr/Mic PL -
	Pin 6: GND/Shield

Table 2

NOTE: If connecting a second SP7000, the audio cable will terminate to J4500 pins 4, 5 & 6.

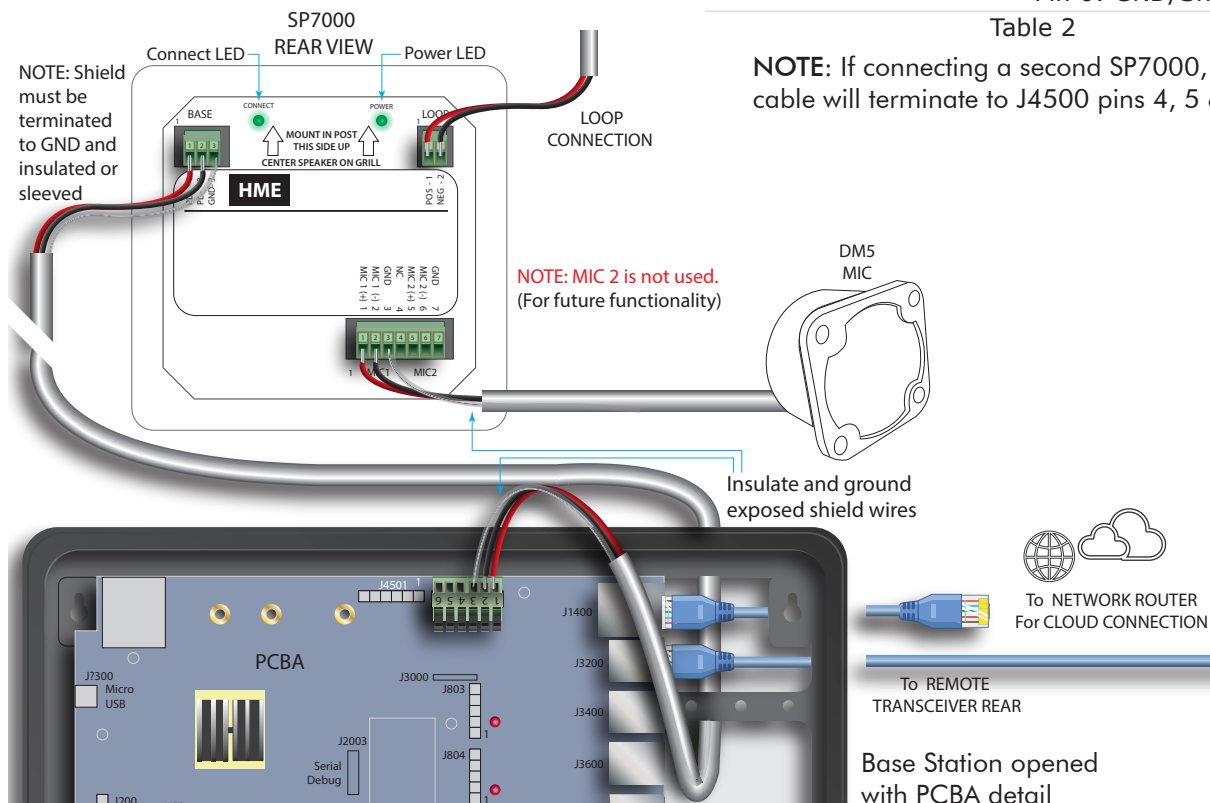
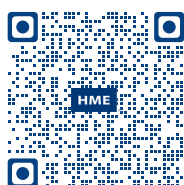


Fig. 4

SP7000 Technical Specifications

Dimensions	5.9" H x 5.9" W x 4.55" D (149.9 x 149.9 x 115.6 mm)
Weight	2.44 lb (1.11 kg)
Power Supply	Voltage: 48 VDC (powered from BS7000). Current: 0.331 A (max start up)
Frequency Range	Audio: 100 Hz to 7.4 kHz. Powerline network over 48 VDC: 2 MHz – 67.5 MHz
Power	Nominal power with no audio: 5.2 W, Maximum power at maximum volume: 27 W
Front Panel	Speaker: 15 watts, 8 ohm
Rear Panel	Phoenix connector type headers (includes analog DM5 microphone input)
Wireless	N/A
Temperature	Operating Temperature range: -25°C (-13°F) to +65°C (+149°F)
Compliance	See NEXEO HDX - Regulatory, Compliance, and Safety Guide online



A copy of this guide and more can be found by scanning this QR code or going to:
<https://www.hme.com/qsr/drive-thru-user-manuals/>

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