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# INSTALLATION INSTRUCTIONS

**LIGHTED SIGN KIT (P/N 325999-024 DOMESTIC)**

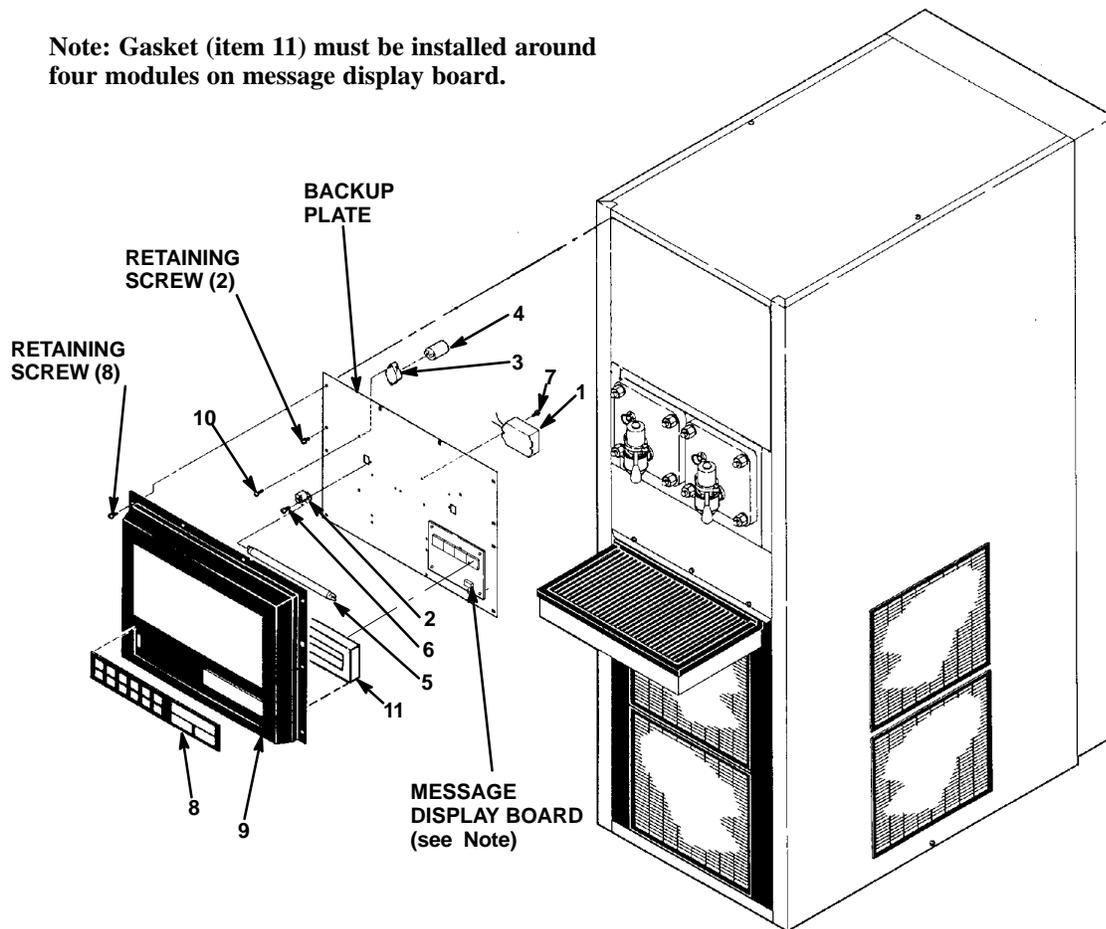
**OR**

**(P/N 325999-000 EXPORT)**

**ON**

**FCB (SOLID-STATE) TWO FLAVOR POST-MIX DISPENSER  
WITH HOT-GAS DEFROST**

**Note:** Gasket (item 11) must be installed around four modules on message display board.



**FIGURE 1. PARTS IDENTIFICATION**

# INSTALLATION INSTRUCTIONS

Read and understand these instructions thoroughly before installing this kit. Retain these instructions as part of your equipment manual.

These instructions outline installation of the Lighted-Sign Kit P/N 325999-024 (D=DOMESTIC) or P/N 325999-000 (E=EXPORT) on the FCB (Solid-Sate) Two-Flavor Post-Mix Dispenser with Hot-Gas Defrost (Model No. 416120-068 and 416120-073).

**IMPORTANT: Only qualified personnel should install this kit.**

Loose-shipped parts are shown in Figure 1,

Table 1. Loose-Shipped Parts			
Item No.	Part No.	Name	Qty. D E
1	325970	Ballast, 230VAC, 60Hz 8-Watt	1 -
2	187189	Lamp Holder	2 -
3	151279	Starter Socket	1 -
4	150029	Starter, 6-8 Watts	1 -
5	151055	Fluorescent Tube, F6T5/D	1 1
6	320289	Thread Forming Screw, Phil Pan Hd, No. 6-32 by 1/4-in. lg	4 -
7	319941	Thread Rolling Screw SI Hex Washer Hd, No. 8-32 by 3/8-in. lg	2 -
8	325962-040	Touch Switch Ass'y	1 1
9	325740	Display Housing, Lighted Sign	1 1
10	320106	Thread Rolling Screw, Phil Pan Hd, No. 6-32 by 1-in.	1 -
11	324193	Gasket	1 1
12	326142-001	Kit Instructions	1 -

## UNPACKING KIT

Unpack and inspect kit. Make sure items are present and in good condition.

## INSTALLING LIGHTED SIGN KIT

1. Press "OFF 1" and "OFF 2" switches on Dispenser control panel to stop refrigeration system and freeze cylinders beaters.

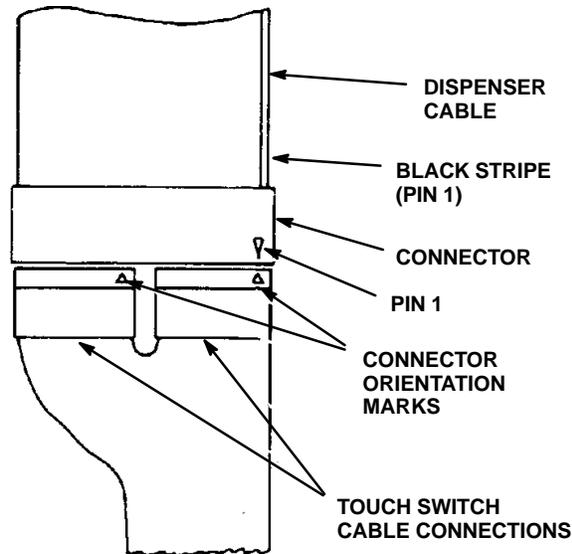


**WARNING: To prevent personal injury from possible electrical shock, disconnect electrical power source from Dispenser before proceeding to install Lighted-Sign Kit.**

2. DISCONNECT ELECTRICAL POWER SOURCE from Dispenser.
3. Remove both side panels by removing screws securing bottoms of panels, then lift panels straight up to remove from Dispenser.
4. Remove two screws securing top panel, then lift panel up off Dispenser.

5. Remove eight screws securing display housing assembly on Dispenser. Very carefully, lower display housing assembly for access to touch switch assemblies cables connectors.

**IMPORTANT: Before disconnecting touch switch assembly electrical cable connectors from Dispenser electrical cable connector, note and mark for identification how they are connected together. THESE CABLES CONNECTORS CAN BE CONNECTED BACKWARDS WHICH WILL CAUSE DISPENSER NOT TO OPERATE PROPERLY (see Figure 2).**



**FIGURE 2. CABLE CONNECTIONS**

6. Disconnect touch switch assembly electrical cable connectors from Dispenser electrical cable connector, then remove display housing assembly from Dispenser. Discard display housing assembly.
7. Remove two screws securing back-up plate to Dispenser, then pull plate out far enough for access to back of plate.
8. Install BALLAST, 230VAC (item 1) on back of back-up plate as indicated in Figure 1 and secure with THREAD ROLLING SCREWS (item 7).
9. Install STARTER SOCKET (item 3) on back of back-up plate as indicated in Figure 1 and secure with THREAD FORMING SCREWS (item 10).
10. Install STARTER (item 4) in starter socket.
11. Insert one of the LAMP HOLDERS (item 2) from back side through hole in back-up plate as indicated in Figure 1. Secure lamp holder to front of back-up plate with THREAD FORMING SCREW (item 6).
12. Install other LAMP HOLDER (item 2) on back-up plate by repeating step 11 preceding.
13. Disconnect black electrical wires connector from No. 1 transformer (left-side transformer facing front of Dispenser) "LINE" (input) terminal (see Figure 3).
14. Connect ballast black electrical wire, with piggy-back terminal on its end, to transformer "LINE" (input) terminal.
15. Reconnect black electrical wires connector, disconnected from transformer in step 13 preceding, to ballast black wire piggy-back terminals connected to transformer.
16. Disconnect white electrical wires connector from other "LINE" (input) terminal on No. 1 transformer.
17. Connect lamp holder white electrical wire, with piggy-back terminal on its end, to transformer "LINE" (input) terminal.

18. Reconnect white electrical wires connector, disconnected from transformer in step 16 preceding, to lamp holder white wire piggy-back terminal connected to transformer.
19. Place back-up plate in position on Dispenser and secure with two screws.
20. Install and secure FLUORESCENT TUBE (item 5) in lamp holders.
21. Install GASKET (item 11) around four modules on the message display board as shown in Figure 1.
22. *Very carefully* route TOUCH SWITCH ASS'Y (item 8) electrical cable through slotted hole in DISPLAY HOUSING, LIGHTED SIGN (item 9).
23. Remove backing paper from sticky-back side of touch switch assembly, then position switch assembly in recessed area of lighted sign display housing and press into place.
24. Remove paper backing from message display decal (not provided). *Very carefully*, position and install decal on inside surface of clear lens in lighted sign display housing.
25. Hold lighted sign display housing up in position on front of Dispenser in preparation to connect touch switch assembly electrical cables connectors to Dispenser electrical cable connector.
26. Connect touch switch assembly electrical cable connectors to Dispenser electrical cable connector. Dot touch switch cable end connector must be opposite dot on dispenser electrical connector. **MAKE SURE CONNECTORS ARE NOT CONNECTED TOGETHER BACKWARDS** (see Figure 2).
27. Raise lighted sign display housing up into position on front of Dispenser and secure with eight screws.
28. Install Dispenser top panel and secure with two screws.
29. Install both side panels and secure with screws.

## RESTORING DISPENSER TO OPERATION

1. Connect electrical power to Dispenser.
2. Restore Dispenser to operation.
3. Check lighted sign.

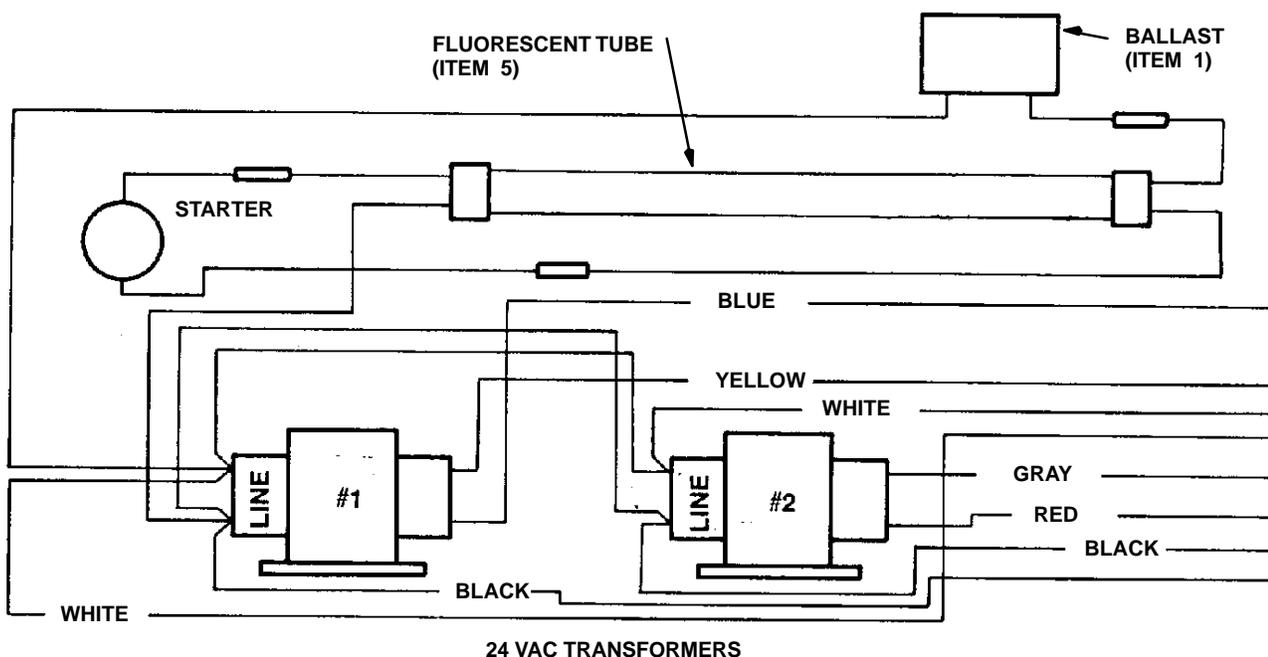


FIGURE 3. WIRING DIAGRAM