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## REPLACING KLAUBER BEATER DRIVE MOTOR WITH EMERSON BEATER DRIVE MOTOR KIT (P/N 4210) ON FCB POST-MIX DISPENSER WITH V3+ FEATURES

These instructions describe the procedure to replace a Klauber freeze cylinder beater drive motor with an Emerson freeze cylinder beater drive motor. After installation of the Emerson motor, the motor manufacturer's name "Emerson" must be programmed into the FCB Dispenser which will match the new motor to the Dispenser's electronics. In addition to programming the motor manufacturer's name into the Dispenser's electronics, the beater motor current for the new motor must also be programmed into the Dispenser electronics. Retain these instructions as part of your equipment manual.

**IMPORTANT: Only qualified Personnel should install this Kit.**

1. Unpack and inspect this Kit. Make sure all items in the Kit are present and in good condition.

Table 1. Loose-Shipped Parts			
Item No.	Part No.	Name	Qty.
1	3236	Motor Plate, Left-Hand Side	1
2	3237	Motor Plate, Right-Hand Side	1
3	4689	Beater Drive Motor, Emerson	1

### REMOVING OLD KLAUBER BEATER MOTOR

1. Press "OFF" 1 and "OFF 2" control switches on the Unit control panel to stop the refrigeration system and the beater drive motors.



**WARNING: Disconnect electrical power from the Unit to prevent personnel injury before attempting any internal maintenance. Only qualified personnel should service the internal components or electrical wiring.**

2. Disconnect electrical power from the Unit.
3. Remove back and applicable side panels from the Unit for access to the Klauber beater drive motor to be replaced.

4. Disconnect the applicable brown and white or orange and white (depending upon which Klauber beater drive motor will be replaced) electrical wires from the motor's associated start relay, then remove and discard the relay .
5. Remove hex nuts and lock washers securing the beater drive motor to the beater motor bracket.
6. Very carefully, remove the old beater drive motor from the Unit. BE CAREFUL NOT TO LOSE THE LARGE PLASTIC DRIVE SHAFT COUPLER.

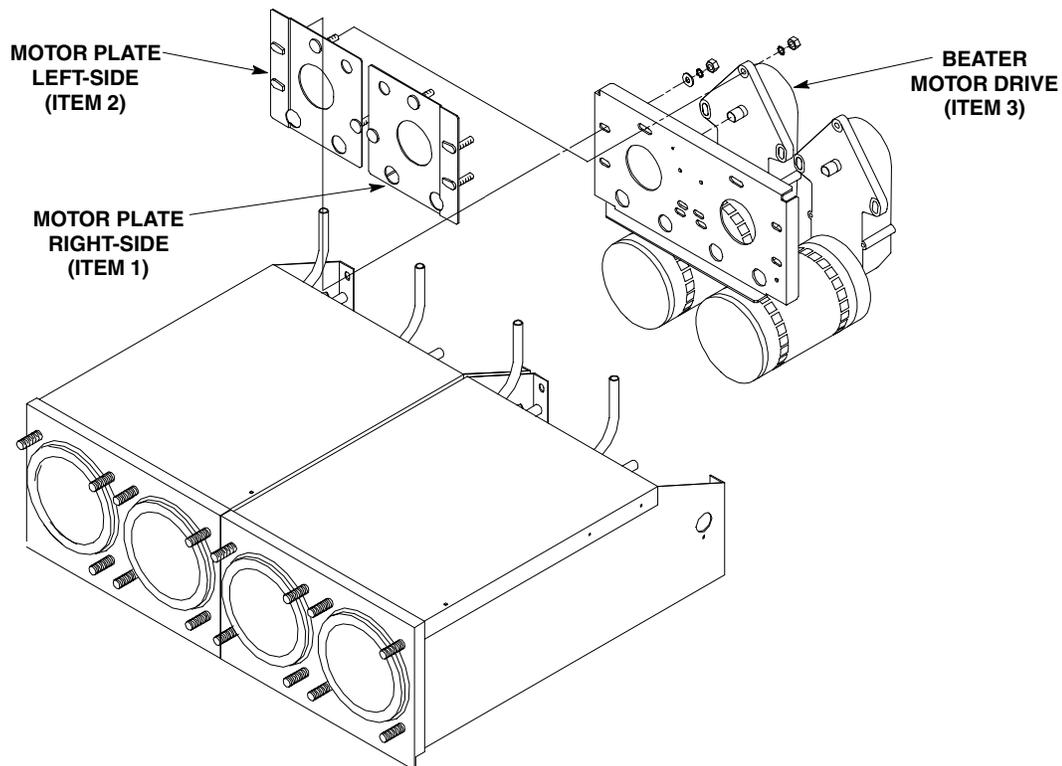
## INSTALLING NEW EMERSON BEATER DRIVE MOTOR (ITEM 3)

1. Remove the motor shaft coupling from the old beater drive motor and install it on the new Emerson BEATER DRIVE MOTOR (item 3) shaft. MAKE SURE THE ALLEN-HEAD SET SCREWS IN THE COUPLING ARE SECURELY TIGHTENED AND ARE PROPERLY SEATED ON THE MOTOR SHAFT FLAT SURFACE.



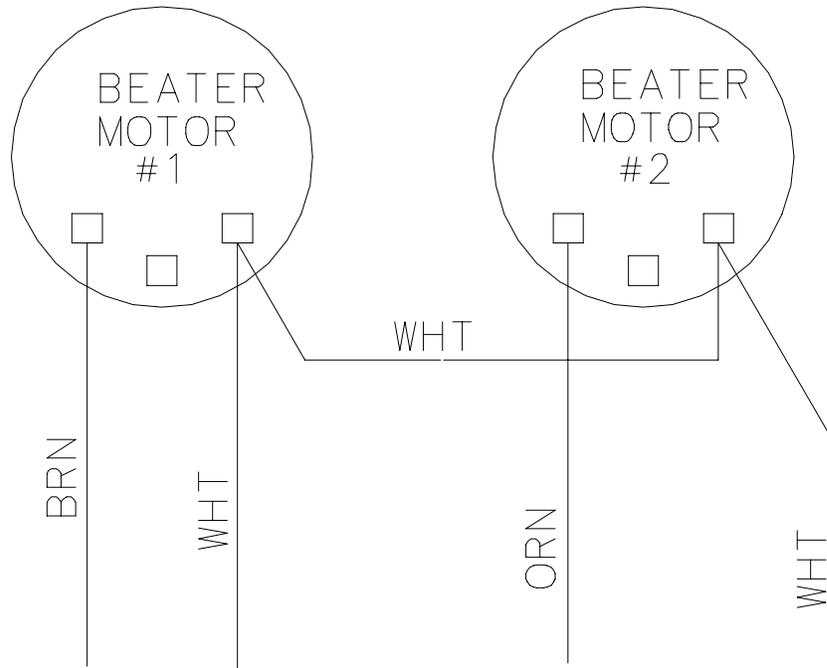
**CAUTION:** The new Emerson beater drive motor has a plug in the vent hole on top of the gear box that *must* be removed before the motor is put into operation.

2. Remove plug from the vent hole on top of the beater drive motor gear box.
3. Remove the old Klauber beater motor plate and install applicable new MOTOR PLATE (item 1) or (item 2) as shown in Figure 1.
4. Very carefully, place the new beater drive motor into position in the Unit with the motor shaft coupling engaged in the large plastic coupler on the beater drive shaft coupling.
5. Secure the beater drive motor to the beater motor bracket with lock washers and hex nuts. DO NOT TIGHTEN HEX NUTS AT THIS TIME.
6. Make sure the beater drive motor shaft is properly aligned with the beater drive shaft, then tighten hex nuts securely to secure the beater drive motor.



**FIGURE 1. BEATER DRIVE MOTOR INSTALLATION**

7. Connect the applicable brown and white or orange and white electrical wires (disconnected from the old Klauber beater driver motor start relay) to the new Emerson beater drive motor as shown in wiring diagram (Figure 2).



**FIGURE 2. MOTOR WIRING DIAGRAM**

## RESTORING UNIT OPERATION

1. Connect electrical power to the Unit.

**IMPORTANT:** The motor manufacturer's name "Emerson" *must* be programmed into the FCB Dispenser which will match the new motor to the Dispenser's electronics. In addition to programming the motor manufacturer's name into the Dispenser's electronics, the beater motor current for the new motor *must* also be programmed into the Dispenser electronics.

2. Refer to the Service Manual that was provided with your FCB Dispenser for instructions (see **PROGRAMMING FREEZE CYLINDERS BEATER "MOTORS" INTO UNIT ELECTRONICS**) to program the new beater motor manufacturer's name ("Emerson") into the Dispenser which will match the beater motor to the Dispenser's electronics.
3. Refer to the Service Manual that was provided with your FCB Dispenser for instructions (see **ADJUSTING BEATER MOTOR CURRENT (EITHER SIDE)**) to program the new beater motor current into the Dispenser's electronics.
4. Press "AUTO 1" and "AUTO 2" control switches on the control panel to start the refrigeration system and the beater drive motors.
5. Check new beater drive motor for proper operation.
6. Install back and side panels on the Unit by reversing removal procedures.