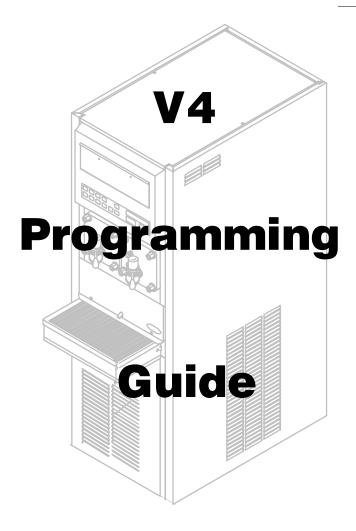


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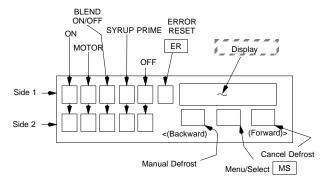
Cornelius Inc.One Cornelius Place Anoka, MN 55303 -6234

Revision Date: May 06, 2014

Revision: B

312030003

# QUICK REFERENCE GUIDE FCB V4 PROGRAMMING



#### CONTROL PANEL SWITCH IDENTIFICATION

### MENU SELECTIONS AND DESCRIPTIONS

Enter the Programming Mode, by pressing and holding the switch "Menu/Select" until "Clock" appears on "MESSAGE DISPLAY".

To advance through the "MENU SELECTIONS" you must repeatedly press and release the "Forward" (Cancel Defrost) switch. The following is a list of menu selections and their brief descriptions.

## MENU SELECTIONS BRIEF DESCRIPTIONS

**CLOCK (SEE NOTE 1)** Time of day and the day of the week. **DEFROST** (AUTOMATIC) Time of day, defrost cycle is to occur. Time of day, the Unit is to go to sleep. **SLEEP (SLEEP TIME)** WAKE UP (WAKE UP TIME) Time of day, Unit is to wake up. Adjust product viscosity setting. **VIS SET** Displays actual viscosity readout. **VIS READ SENSORS** Displays sensors temperatures readout. **VOLTAGE** Displays voltage readout. **DIAGNOSE** Checks Unit components for proper operation. **TOTALS** Displays cycles and hours totals. **MOTORS** Programs beater motors into Unit electronics. **REF TYPE** Programs refrigerant type into Unit electronics.

NOTE 1: The "CLOCK" (time of day) must be programmed into the Unit electronics before the Unit "DEFROST" (AUTOMATIC), SLEEP (SLEEP TIME), and "WAKE UP" (WAKE UP TIME) WILL FUNCTION.

NOTE 2: When DIP6 switch is in "ON" position, the control panel switches will disable (lock-out) after 90 seconds. Pressing any switch on the control panel for 5-seconds will enable (activate) the control panel switches. When in programming menu, control panel security will not re-establish until after exiting the programming menu.

## **OPTIONS: (DIP SWITCHES 1 THROUGH 10)**

Used to program POINT OF SALE display messages into Unit electronics. (POS MESSAGE)

DIP<sub>2</sub> Used to program POINT OF SALE dis-(POS MESSAGE) play messages into Unit electronics.

Switch No. 3 must be in the "OFF"

(EXPANSION VALVES) position for standard Units with pulse expansion valves. Switch No.

3 must be in the "ON" position for older Units with mechanical expan-

sion valves.

**DIP4** (BEATER MOTOR Used to adjust beater motor cur-CURRENT CALIBRATION) rent (either side).

DIP5 Switch in "ON" position prevents beater mo-(DISABLE AUTO tors current from automatically self-calibrating at completion of each defrost cycle. CALIBRATION)

DIP6 Switch in "ON" enables and switch in "OFF" (CONTROL PANEL disables control panel security.

SECURITY) See Note 2.

DIP7 Switch "ON" for celsius or "OFF" for

(CELSIUS fahrenheit readings.

MODE)

DIP8 Switch No. 8 must be in "ON" position to (DAYLIGHT enable daylight (summer) savings or stan-SAVINGS TIME) dard (winter) time to be programmed into

the Unit electronics.

DIP9 Switch "ON" hot-gas defrost or "OFF"

(HOT-GAS electric defrost.

DEFROST)

DIP<sub>10</sub> Service use only.

**CALENDAR** Used to program month, day, and year

into the Unit electronics.

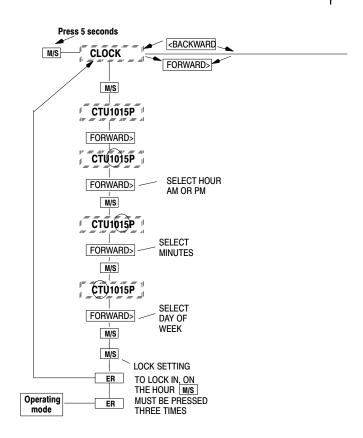
DST+1HR Programming daylight (summer) savings

(see DIP 8) time into Unit electronics.

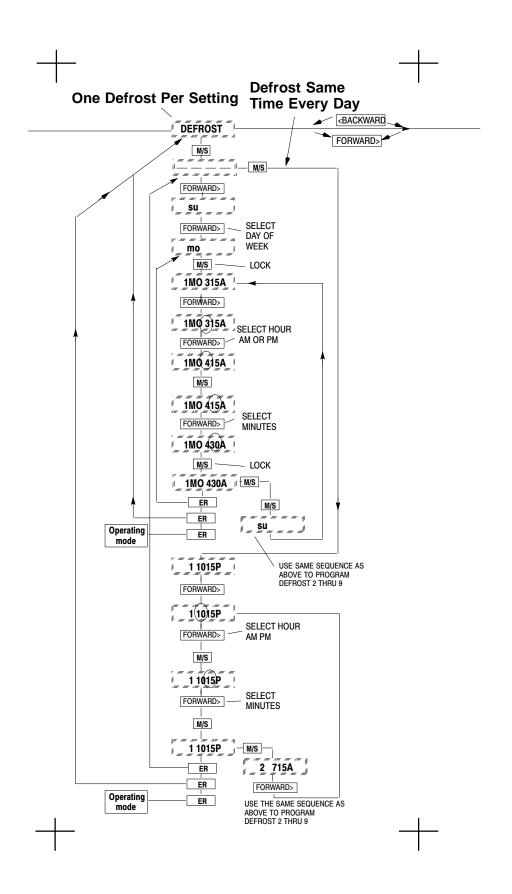
DST-1HR Programming standard (winter) time into

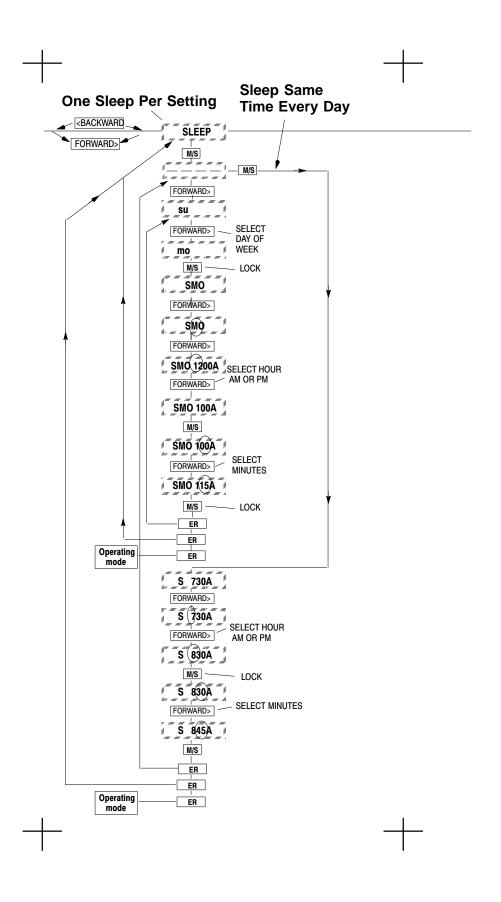
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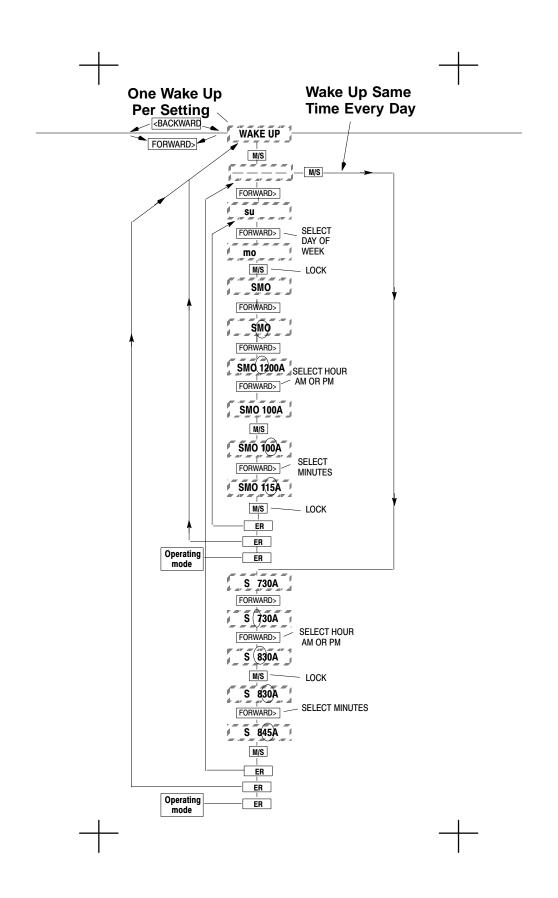
(see DIP 8) Unit electronics.

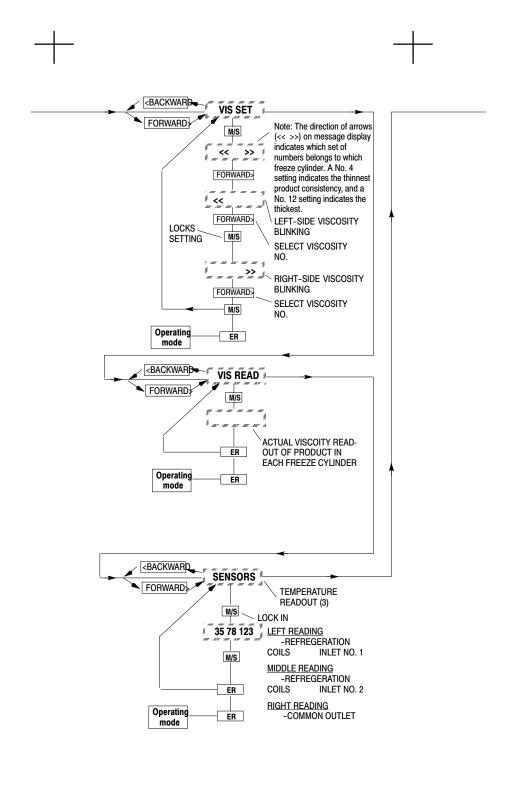


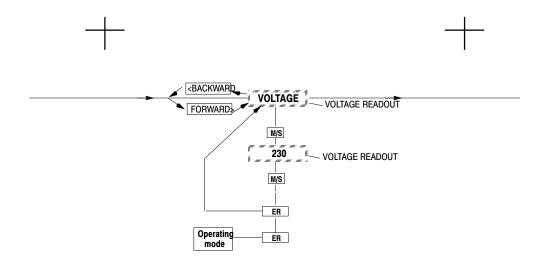
NOTE: The "clock" (TIME OF DAY) must be prgrammed into the Unit before "DEFROST" (AUTOMATIC) "SLEEP" (SLEEP TIME) and "WAKE UP" (WAKE UP TIME) will fuction.

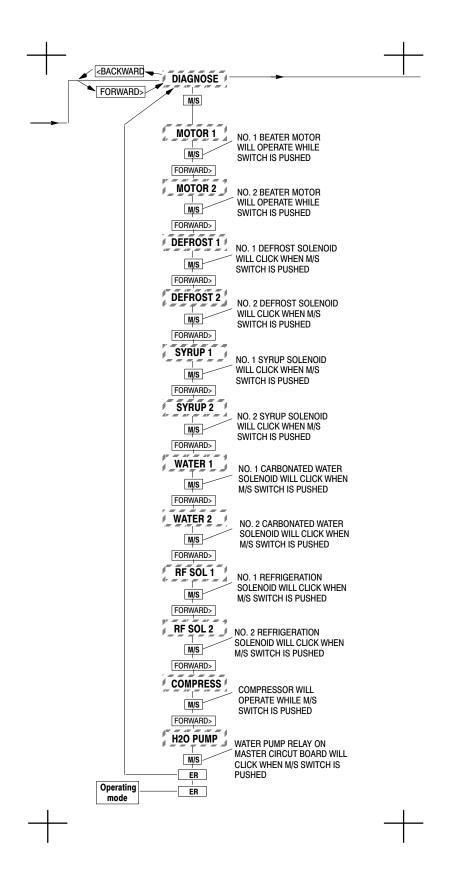






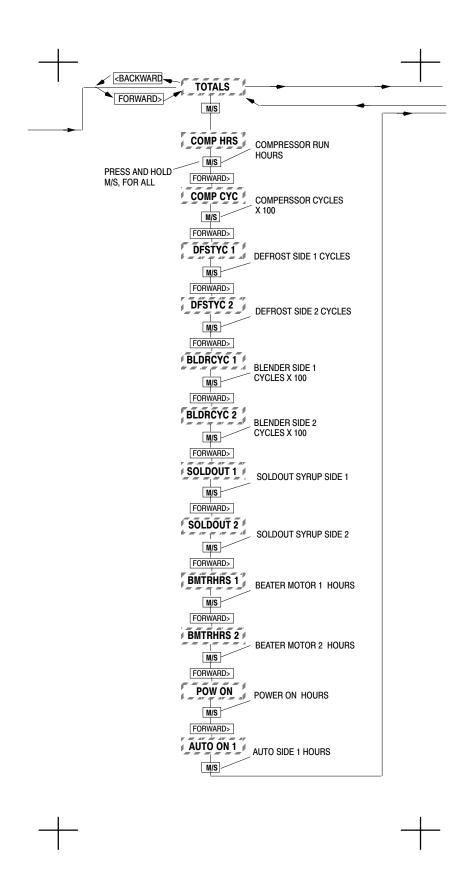


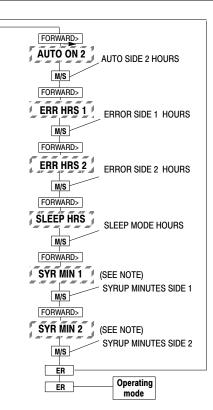












NOTE: DISPLAYING "SYR MIN 1" OR "SYR MIN 2" ON MESSAGE DISPLAY WILL INDICATE TIME IN MINUTES SYRUP ACTUALLY HAS BEEN DISPENSED. REFER TO TABLE AND FORMULA BELOW TO CALCULATE HOW MUCH SYRUP HAS BEEN DISPENSED.

GALLONS= "GALLON" OR "LITER" X SYRUP MINUTES

Note: "GALLON" or "LITER" numbers are based upon 4.4 to 1 water to syrup "ratio".

Using the table below, choose the "GALLON" or "LITER" number that corresponds to your BRIX setting. Multiply the "GALLON" or "LITER" number by the syrup minutes reading to obtain the amount (gallons) of syrup used.

BRIX	"GALLON"	"LITER"
11.1	0.1358	.5140
11.5	0.1420	.5375
12.0	0.1481	.5606
12.5	0.1543	.5840
13.0	0.1605	.6074
13.5	0.1667	.6310
14.0	0.1728	.6540
14.5	0.1790	.6775
15.0	0.1852	.7010
15.5	0.1914	.7244
16.0	0.1975	.7475

