



CARDINAL®

825 DFC/Batcher
825 Software Addendum

June 8, 2009
Revision 1.0

SCREENS

All application specific setup can be done from the **MENU** button located on the main screen. You can access the setup menu by pressing the button or by pressing the 'M' hotkey on the keypad.

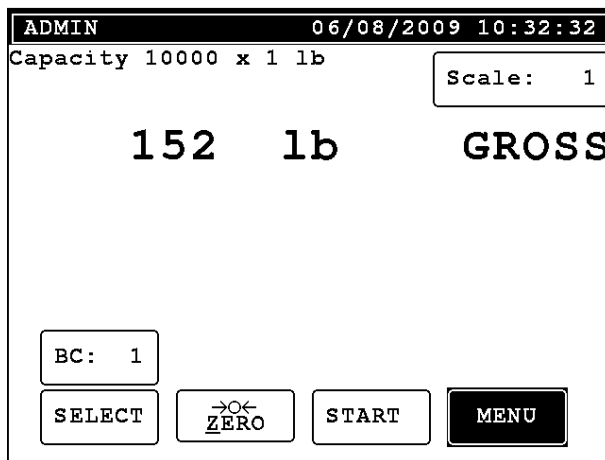


Figure 1 - Main Screen

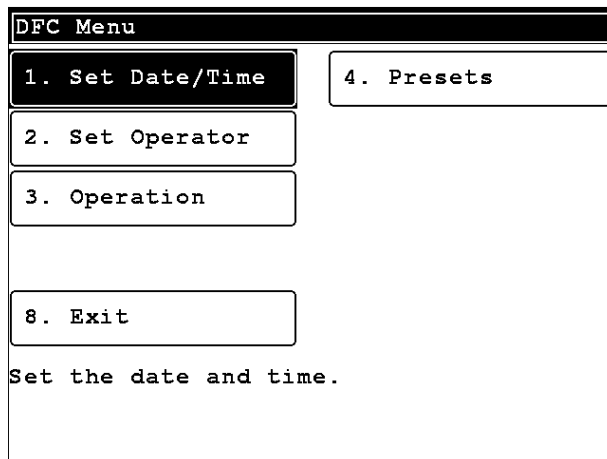


Figure 3 - Setup Menu (DFC)

1. Set Date/Time
 - a. Allows the operator to change the date/time. Requires **date/time** permissions.
2. Set Operator
 - a. Change the current operator.
3. Operation
 - a. Allows the operator to change various operation parameters of the application. Requires **calibration** permissions.
4. Presets
 - a. Allows the operator to change the preset values.

5. Exit
 - a. Returns the indicator to the main screen.

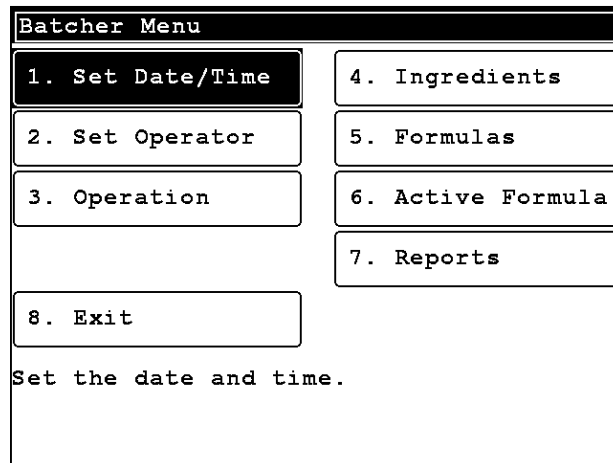


Figure 2 – Setup Menu (Batcher)

1. Set Date/Time
 - a. Allows the operator to change the date/time. Requires **date/time** permissions.
2. Set Operator
 - a. Change the current operator.
3. Operation
 - a. Allows the operator to change various operation parameters of the application. Requires **calibration** permissions.
4. Ingredients
 - a. Allows the operator to setup the ingredients used in the batching system.
5. Formulas (batcher only)
 - a. Allows the operator to setup formulas for the batching system.
6. Active Formula (batcher only)
 - a. Allows the operator to select the currently active formula.
7. Reports (batcher only)
 - a. Prints reports of ingredients and formulas.
8. Exit
 - a. Returns the indicator to the main screen.

OPERATION MENU

```
DFC Setup - Page 1/2
Batch Mode: No
    Speed: 1-Speed
    Auto Trim: No
    Auto Print: Yes
    Multi-drop: No
    Dump Gate: No

Decumulate: No
Enable batch mode operation.
```

Figure 3 - Operation page 1

- Batch Mode** – Enables or disable batching mode.
- Speed** – Press [SPACE] to toggle one speed, A->B, AB->A, or chatter operation.
- Auto Trim** – Enable or disable dynamic trim.
- Auto Print** – Will print a ticket while filling or batching.
- Multi-drop** – Enable or disable multi-drop mode.
- Dump Gate** – Enable or disable the dump gate at the end of a batch or fill.
- Auto Dump** – Enable or disable auto dumping if dump gate is enabled.
- Decumulate** – Enable or disable decumulative operation.

```
DFC Setup - Page 2/2
Printer Port: COM1
Report Port: COM1
    Zero Tol: 10
    Auto Tare: No

Select a port for printing.
```

Figure 4 - Operation page 2

- Printer Port – Choose the port for printing tickets.
- Report Port – Choose the port for printing reports.
- Zero Tol – Enter the zero tolerance.
- Auto Tare – Enable or disable auto tare mode.
- Dump Gate Time – Delay before turning off the dump gate relay.

PRESETS SCREEN

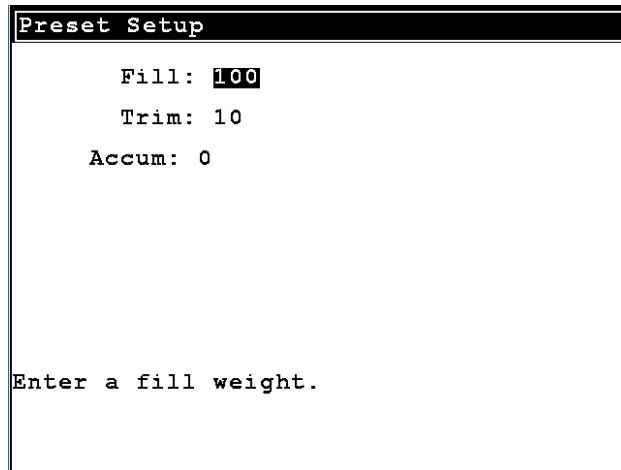


Figure 5 - Presets Screen

Fill – Enter the fill target.

Fast (two speed only) – Enter the fast fill target.

Slow (two speed only) – Enter the slow fill target.

Chatter On (chatter only) – Enter the chatter on time.

Chatter Off (chatter only) – Enter the chatter off time.

Trim – Enter the amount of free falling material.

Accum – Edit or set the accumulator value.

INGREDIENTS SCREEN

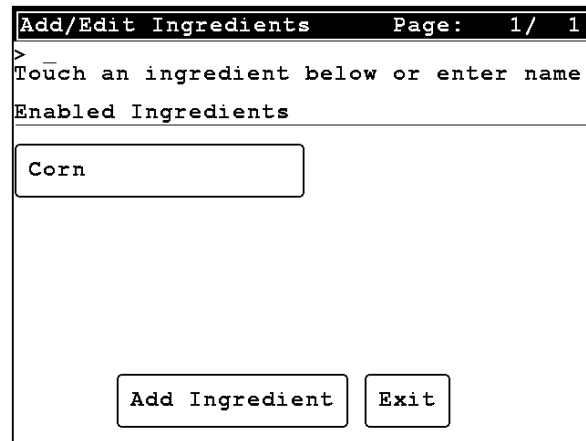


Figure 6 - Ingredients screen

Add Ingredient

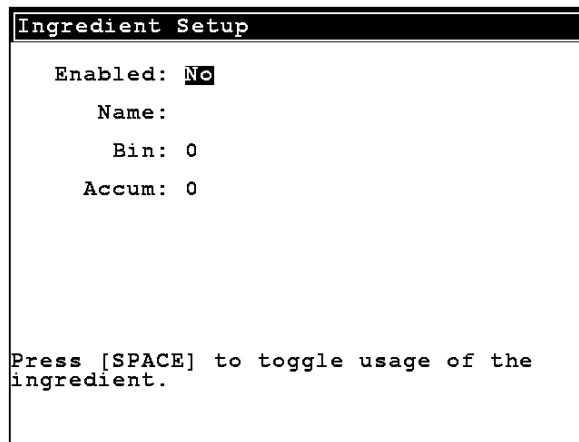


Figure 7 - Add Ingredient screen

1. Press the "Add Ingredient" button.
2. Press SPACE to toggle enabled to Yes.
3. Press DOWN and enter a name.
4. Press DOWN and enter a bin. The available bins will be indicated in the help section at the bottom of the screen. Bin numbers follow the nomenclature of the hardware drawing sent with this application.
5. Press DOWN to enter the preloaded accumulator value or press ENTER to save the ingredient.

Remove Ingredient

1. Press the ingredient from the ingredients screen.
2. Press SPACE to toggle enabled to No.
3. Press ENTER to save the settings.
4. The ingredient is now removed.

Edit Ingredient

1. Press the ingredient from the ingredients screen.
2. Make the required changes using the QWERTY keypad.
3. Press ENTER to save the changes.

FORMULAS SCREEN

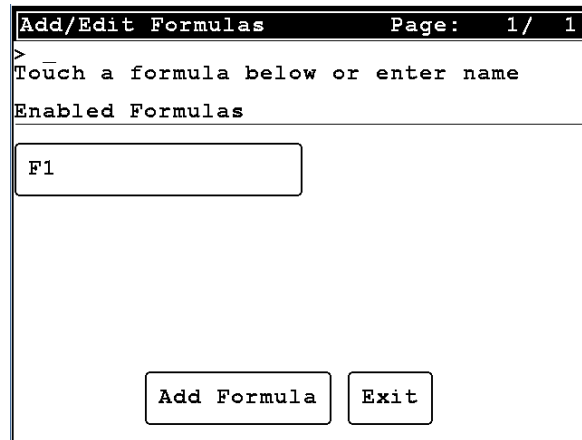


Figure 8 - Formulas screen

Add Formula

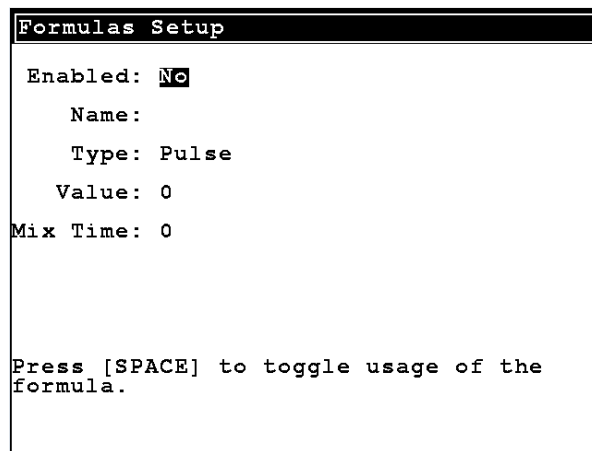


Figure 9 - Add Formula screen

1. Press the "Add Formula" button.
2. Press SPACE to toggle enabled to Yes.
3. Press DOWN and enter a name.
4. Press ENTER to proceed to the ingredient selection screen.

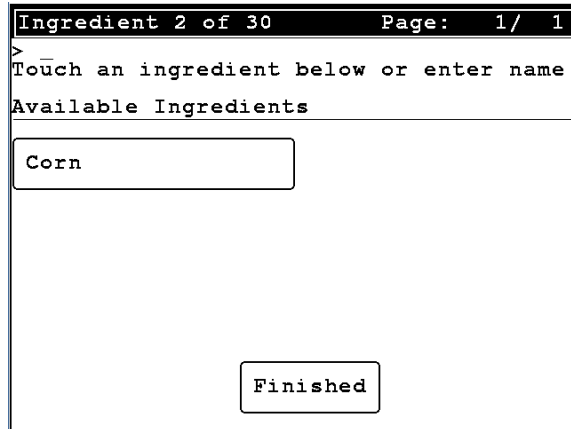


Figure 10 - Add ingredients to formula

5. Choose an ingredient from the list.
6. Enter a fast/fill target weight.
7. Press the DOWN button and enter the slow target weight (two speed only).
8. Press DOWN and enter the accumulator value or leave it empty.
9. Press ENTER to save the ingredient.
10. Repeat steps 8-13 until you have entered all required ingredients.
11. Press the "Finished" button when you have added all ingredients.

Review/Edit Formulas

1. Press the formula name on the formula screen.

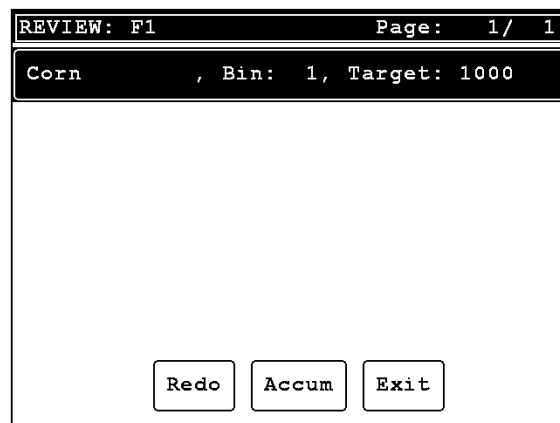


Figure 11 - Formula review

2. To edit single ingredients press the ingredient name and follow steps 9-13 from the "Add Formula" section.
3. To restart a formula press the "Redo" button and follow steps 2-15 from the "Add Formula" section.
4. When you are finished press the "Exit" button to return to the formula screen.

ACTIVE FORMULA SCREEN

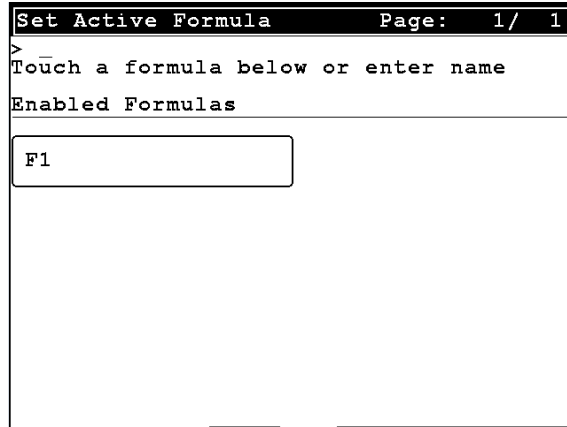


Figure 12 - Active formula screen

1. To select an active formula press the formula name or enter the formula name and press ENTER.

REPORTS SCREEN

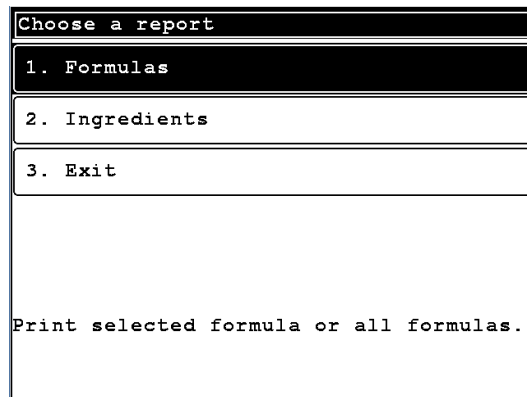


Figure 13 - Reports screen

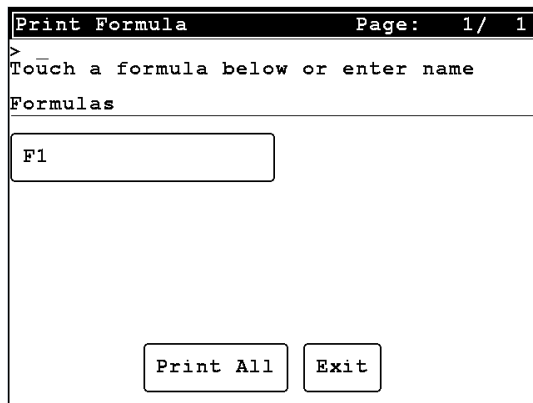


Figure 14 - Print formula report

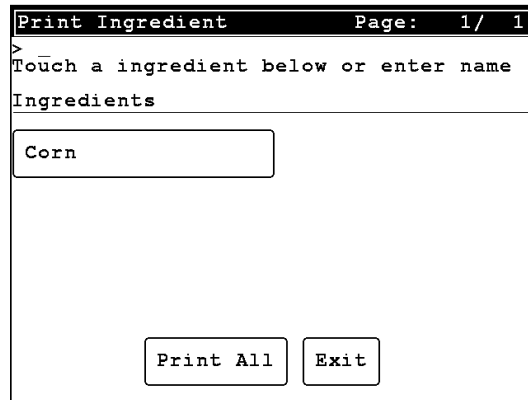


Figure 15 - Print ingredients screen

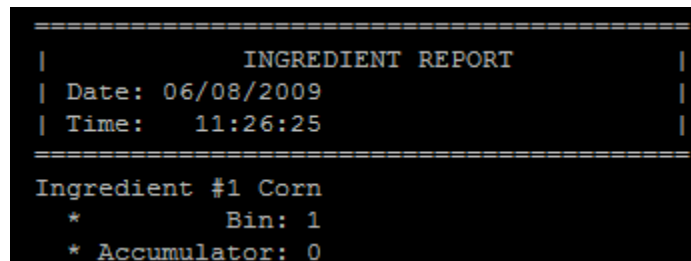
Printing a Formula Report

1. Press "1. Formulas"
 - a. To print individual formula press the formula name.
 - b. To print all formulas press the "Print All" button.



Printing an Ingredient Report

1. Press "1. Ingredient"
 - a. To print individual ingredient press the ingredient name.
 - b. To print all ingredients press the "Print All" button.



OPERATION

Digital Fill Control

1. Enter the preset values using the information above.
2. Press the START key to begin the DFC process.
3. Confirm the start by pressing YES.

Batching

1. Choose the formula by pressing "Select" on the main screen and then touching the formula you wish to run.
2. Press the BC button to select the batch count.
3. Press the START key to begin the batch.
4. Confirm the batch by pressing YES.

CONFIGURING INPUTS/OUTPUTS

Outputs are assigned based on the number of available pins (4 on mainboard + 8 per DIO card).

Dump Gate - Last available DIO card, pin #8.

For example, with two dio cards available and single speed operation with a dump gate (pump) enabled.

Bin 5 - DIO card #1, pin #1.

Bin 10 - DIO card #2, pin #6.

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