

920[®]*i*

Custom Grain Program

Operation Manual



*i*Rite

1.0 Introduction and System Overview

The 920i grain program is a custom application for the 920i using the iRITE language of the 920i indicator to support weighing trucks of grain. This manual provides information on using the grain program for transactions using Rice Lake Weighing System's 920i digital weight indicator. Stored IDs allow you to keep a database of up to 500 accounts, and 200-grain types, their associated divisor, and accumulator stored in the indicator's memory. The 920i can automatically store up to 1000 truck IDs, customers, and tare weights.

You will need to download two files to the 920i for the grain program to work properly. They are:

- Grain.920
- Grain.cod

The database information has to be included with the configuration as the program uses the databases.

While this manual gives basic information about this program, it only addresses those settings that are important to the operation of the grain program. For further information on the installation, configuration, and operation of the 920i, consult the *920i Installation Manual*, PN 67887.

To initialize the grain program, power up the 920i. and the following screen is displayed.



Figure 1-1. Password Screen

Call Rice Lake Weighing Systems' Engineered Products Department to obtain a password for the program. Once you've got a password, enter the password using the navigation keys located on the front of the 920i (Figure 2-1). Once you've entered the password, press the Enter key to save the password. After the password is entered, this screen will not appear again.

The following main menu screen is displayed.



Figure 1-2. Main Menu Screen

There are three softkeys associated with the 920i grain program. They are:

- Weigh
- Manual ticket
- Supervisor mode

Softkeys shown at the bottom of the main screen display are described below:

Weigh	Select this soft key to do the actual weighing
Manual Ticket	Select this soft key to adjust and print tickets
Supervisor Mode	Select this soft key to access database information

Table 1-1. Soft Key Descriptions

2.0 Weigh

The actual weighing operation is done using the Weigh softkey. The following steps explain the actual truck weighing operation.

1. After a truck pulls onto the scale, the operator presses the **Weigh** softkey. The 920i indicator prompts the operator to *Enter Truck ID*.
2. The operator enters the truck ID followed by the Enter key located on the 920i navigation keypad.

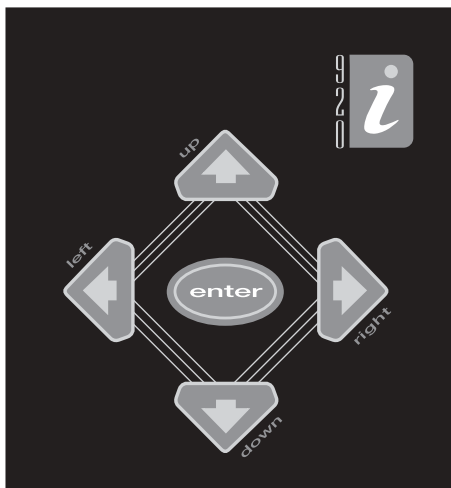


Figure 2-1. 920i Navigation Keys

3. If the ID is new, then the weigh in weight is printed out of port #1.
4. If the ID is located, then the operator is prompted to *Enter Grain No.* on the 920i screen (shown below).

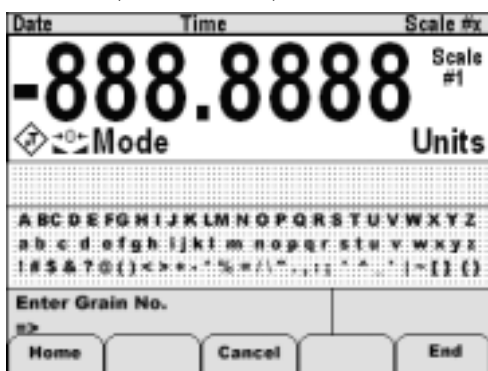


Figure 2-2. Enter Grain Number

Key in the grain number and press the Enter key on the navigation keypad. If the grain is not valid the indicator prompts, *Not Defined, Re-Enter*.

5. If the grain is valid, the operator is prompted to *Enter% Shrink*.



Figure 2-3. Percentage of Shrink

Key in the shrink percentage followed by the Enter key.

6. The operator is prompted to *Enter% Dockage*.

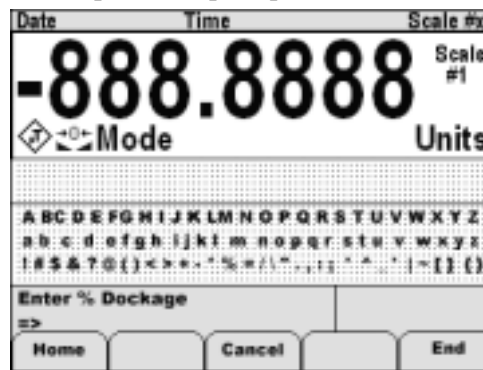


Figure 2-4. Percent Dockage

Key in the dockage percentage followed by the Enter key.

7. The operator is prompted to *Enter% FM*.



Figure 2-5. Percent Foreign Material

Key in the foreign material percentage followed by the Enter key.

8. The operator is prompted to *Enter% Moisture*.

Figure 2-6. Percent Moisture

Key in the moisture percentage followed by the Enter key.

9. The 920i prompts the user with the following message;

Figure 2-7. Contract Message

Use the Yes or No softkeys to enter. If the operator presses the No softkey, the weigh out ticket is printed. If the Yes softkey is pressed then the operator is prompted to *Enter Contract Number*.

Figure 2-8. Enter Contract Number

10. The operator keys in the contract number followed by the Enter key. If the contract number is found, the weigh out ticket is printed with the contract information. If the contract number is not found, then the 920i prompts *On Fly Enter Contract ID*.
11. The operator enters the contract number followed by the Enter key. The indicator prompts, *Enter Amount Required*.
12. The operator enters in the required bushels for the contract followed by the Enter key.
13. The weigh out ticket with the contract information is printed.

Note: If the Enter key is pressed when the operator is prompted for a value, the value is set to 0. Example weigh tickets are shown below.

```
120020 1b 10:00AM SCALE S      1
```

Figure 2-9. Weigh In Ticket

```
120020 1b 10:00AM SCALE S      1
120020 1b 10:00AM RECALLED      1
03/06/2016 10:00AM
Grain 2      CORN
G 120020 1b R    56 LB/BU 1071.43 BU
T 60020 1b      10.0 %MOCK 107.14 BU
H 60000 1b      1.6 %SHRK 17.14 BU
                        947.15 NET BU
% MOISTURE 12.0      % FM 2.000
CONTRACT NO.    REQUIRED    DELIVERED
2               100000     947.15
```

Figure 2-10. Weigh Out Ticket With Contract

```
120000 1b 09:59AM SCALE S      1
120000 1b 09:59AM RECALLED      1
03/06/2016 09:59AM
Grain 1      WHEAT
G 120000 1b R    60 LB/BU 999.67 BU
T 60020 1b      5.0 %MOCK 49.98 BU
H 59980 1b      1.5 %SHRK 15.00 BU
                        934.69 NET BU
% MOISTURE 5.0      % FM 5.000
HAVE A NICE DAY
```

Figure 2-11. Weigh Out Ticket Without Contract

3.0 Manual Tickets

Tickets can be printed manually at any time during a weigh sequence.

1. Press the Manual Ticket softkey on the 920i indicator to access manual ticket mode. The following screen appears.

Figure 3-1. Manual Ticket Gross Weight

2. Key in the gross weight followed by the Enter key. The indicator prompts, *Enter Tare Weight*.
3. Key in the tare weight followed by the Enter key. The indicator prompts, *Enter Truck ID*.
4. Key in the truck ID followed by the Enter key. The indicator prompts, *Enter Grain No*.

Figure 3-2. Enter Grain Number

5. Key in the grain number followed by the Enter key. The indicator prompts, *Enter%*

Shrinkage.

Figure 3-3. Enter Percentage Shrinkage

6. Key in the shrink percentage followed by the Enter key. The indicator prompts, *Enter% Dockage*.

Figure 3-4. Percent Dockage

7. Key in the dockage percentage followed by the Enter key. The indicator prompts, *Enter% FM*.

Figure 3-5. Percent Foreign Material

8. Key in the foreign material percentage followed by the Enter key. The indicator then displays, *Is this a Contract?*

Date	Time	Scale #x
-888.8888		Scale #1
Mode	Units	
Is This a Contract?		
Yes		
		No

Figure 3-6. Contract Question

Press Yes and follow the prompts for the contract ticket, or No to receive the finished ticket. The printed ticket is similar to the automatic ticket but weights will have a K printed next to them indicating the values are keyed.

Note: *Using a manual ticket does not remove truck ID's from the truck database.*

4.0 Supervisor Mode

The supervisor mode allows the operator to add and delete grains and contracts, print the totals for all the grains and contracts, clear the totals for individual or all the grains or contracts.

To enter the supervisor mode, press the Supervisor Mode softkey. The indicator prompts the user to *Enter Password*.

Key in the password, (default password is 2349171), and the following supervisor softkeys are displayed.

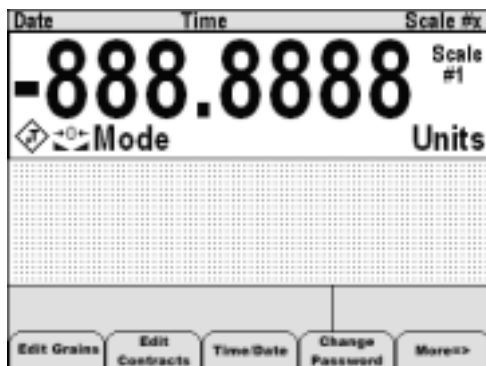


Figure 4-1. Supervisor Softkey Menu

There are eight softkey parameters that can be edited through the supervisors menu. They are:

- Edit Grains
- Edit Contracts
- Time/Date
- Change Password
- Shrink Calculation
- Printer Port
- Remove Trucks
- Message

4.1 Edit Grains

Press the Edit Grains softkey on the 920i to access the editing grains parameters. The following screen is displayed.

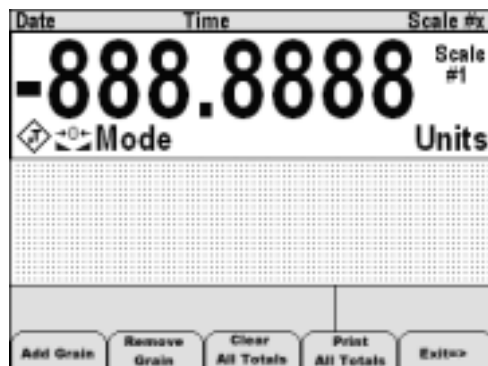


Figure 4-2. Edit Grains Parameter Softkeys

4.1.1 Adding a Grain

1. To add a grain to the database, press the Add Grain softkey. The indicator prompts, *Enter Grain number.*

Figure 4-3. Enter Grain Number

2. Key in the grain number followed by the Enter key. The indicator prompts, *Enter Divisor.*

Figure 4-4. Enter Divisor

3. Key in the divisor and press the Enter key. The grain is now stored in the database.

4.1.2 Removing a Grain

1. To remove a grain from the database, press the Remove Grain softkey on the indicator. The indicator prompts, *Enter Grain ID to Delete.*

Figure 4-5. Grain ID to Delete

2. Key in the grain ID followed by the Enter key. The grain is then removed from the database.

4.1.3 Clear All Totals

1. To clear all the totals from the grain database, the operator presses the Clear All Totals softkey. The indicator prompts, *Clear Grain Totals* with Yes or No softkeys.

Figure 4-6. Clear Grain Totals

2. Press the Yes softkey to confirm that all grain totals have been deleted, or press No softkey to return to the grain softkeys.

4.1.4 Print All Grain Totals

1. Press the Print All Totals softkey shown in Figure 4-1 to print a grain report. The following example grain report is shown below.

GRAIN REPORT			
11:56AM 11/01/2002			
NO.	NAME	DIVISOR	ACCUMULATION
1	BEANS	60	242.39
2	CORN	75	0.00
TOTAL ALL GRAINS			242.39

Figure 4-7. Grain Report

2. To view an individual grain, the operator presses the Add Grain softkey and the indicator prompts, *Enter Grain No.*
3. Key in the known grain number followed by the Enter key. The 920i displays the grain information.
4. If the operator presses the Print key, an individual grain report is printed.
5. If the operator presses the CLR key, the total for that individual grain is cleared.

4.2 Editing Contracts

Press the Edit Contracts softkey on the 920i to access the editing grains parameters. The following edit grains parameters are listed below.

- Add Contract
- Remove Contract
- Clear All Tables
- Print All Tables

4.2.1 Add Contract

1. To add a contract to the database, press the Add Contract softkey. The indicator prompts, *Enter Contract Number*.

Figure 4-8. Enter Contract Number

2. Key in the contract number followed by the Enter key. The indicator prompts, *Enter Contract Req'd Amount*.

Figure 4-9. Contract's Required Amount

3. Key in the amount of bushels required for the contract, press the Enter key and the contract is stored.

4.2.2 Deleting a Contract

1. To delete a contract from the database, press the Delete Contract softkey on the indicator. The indicator prompts, *Enter Contract # to*

Delete.

Figure 4-10. Contract Number to Delete

2. Key in the contract number to delete followed by the Enter key. The contract is then removed from the database.

4.2.3 Clear All Totals

1. To clear all the totals from the contract database, the operator press the Clear All Totals softkey. The indicator prompts, *Clear Contract Totals?* with Yes or No softkeys.

Figure 4-11. Clear Tables

2. Press the Yes softkey to confirm that all contracts have been deleted, or press the No softkey to return to the contract softkeys.

4.2.4 Print All Totals

1. Press the Print All Totals softkey to print a contract report. The following example

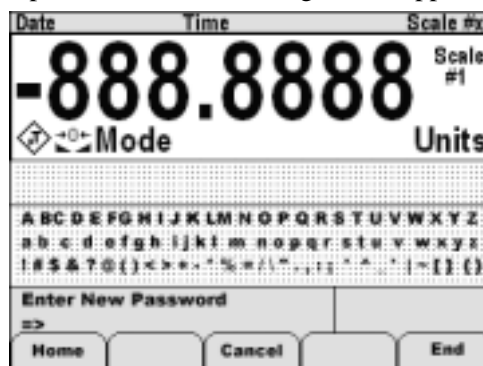
```

CONTRACT REPORT
12:36PM 11/01/2002
*****
NUMBER      REQ'D    DELIVERED    REMAINING
      5          8000          0.00      8000.00
      1          4000          0.00      4000.00
*****
TOTALS      12000          0.00     12000.00

```

2. To view an individual contract, the operator presses the **Add Contract** softkey. The indicator prompts, *Enter Contract Number*.
3. Key in the known contract number followed by the Enter key. The 920i displays the contract information.
4. If the operator presses the Print key, an individual contract report is printed.
5. If the operator presses the CLR key, the total for that individual contract is cleared to 0.

Press the **Change Password** softkey to change the default password. The following screen appears.



1. Key in the new password, followed by the Enter key.
2. The indicator prompts, *Re-Enter to Verify*. The operator re-enters the new password followed by the Enter key.

4.4 Change Time and Date

1. The indicator prompts the current time and waits for the operator to key in the new 24-hour time.



2. Key in the time HHMM followed by the Enter key. The indicator then displays the current date and waits for the operator to key in the new date
3. Key in the new date MMDDYY followed by the Enter key. The new time and date is now set.

4.5 Settings Shrink Calculation

1. Press the More => softkey to access the Shrink Calculation softkey. The operator has the choice of selecting either Off Gross Weight or After Dockage softkeys.

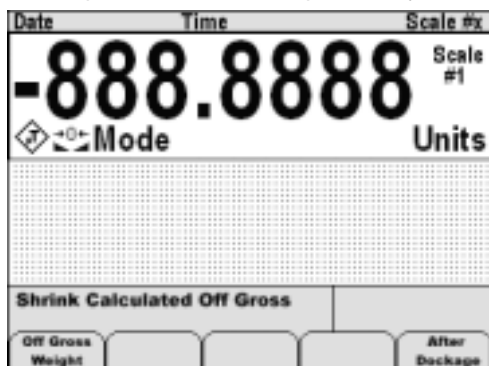


Figure 4-15. Shrink Calculated

2. Select Off Gross Weight to calculate the shrink off gross weight, or select After Dockage to calculate the shrink after the dockage has been removed.

The default value is off gross weight.

4.6 Printer Port

Select the Printer Port softkey to access port information.

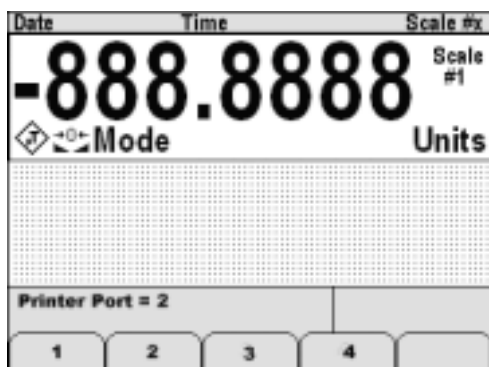


Figure 4-16. Printer Ports

The 920i displays the current printer port and lets the operator press a softkey to change the printer port.

Note: The default port is 2. If a keyboard is used, the printer must be connected to a different serial port.

4.7 Removing Trucks

Trucks can be removed from the database by pressing the Remove Trucks softkey.

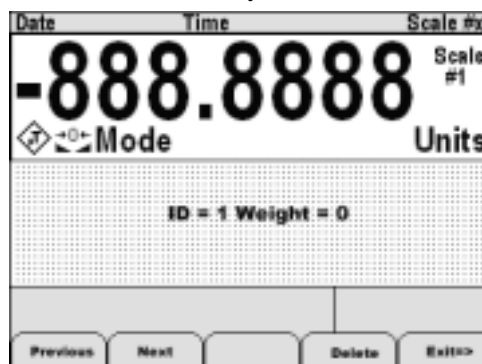


Figure 4-17. Remove Trucks

1. Scroll through the truck database by using the Previous and Next softkeys.
2. To remove a truck from the database, press the Delete softkey and the 920i prompts, *Are you sure you want to delete?*



Figure 4-18. Delete Trucks

3. Press the Yes softkey to remove the truck from the database or No to leave it.
4. To exit this mode, press the Exit => softkey.

4.8 Message Editing

When a weigh out ticket is printed without a contract, a message is printed on the indicator. This message can be edited from the supervisor mode.

1. Press the Message softkey, the indicator prompts *Enter Message* on the upper status line and an end greeting is displayed on the

lower status line.



Figure 4-19. Message Display

2. The operator can clear the message by pressing the CLR key.
3. The operator can then key in a new message followed by the Enter key.

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