# 920i Based Truck In/Out System

# Operator's Manual

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# Contents

*Technical training seminars are available through Rice Lake Weighing Systems. Course descriptions and dates can be viewed at **www.ricelake.com/training** or obtained by calling 715-234-9171 and asking for the training department.*

# 1.0 Introduction and System Overview

This manual provides information on using a truck in/out weighing program (PN 77297) for manual truck transactions using Rice Lake Weighing System's *920i* digital weight indicator. Stored IDs let you keep a database of truck IDs, customer product and project information, and weigh-in weights in the indicator's memory and are accessed by simply scrolling through the *Supervisor* main menu using the down arrow on the *920i*. The *920i* can automatically store up to 100 truck ID's and tare weights, 950 customers, 1000 products, and 1000 projects.

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

To install the truck in/out program onto your *920i* programmable indicator, it must be in configuration mode before the *.cod* file can be sent. You can send the *.cod* file directly from *iRev* by using the *Download Configuration...* selection on the *Communications* menu and specifying that you want to send the *.cod* file.

The following main menu screen is shown.

```
10/22/07           08:05AM              SCALE #1

  (T)                              Mode        Scale
 -888.8888                        Units         #1

   Truck       [      ]  [                    ]
   Customer    [      ]  [                    ]
   Product     [      ]  [                    ]
   Project     [      ]  [                    ]
              Gross          Tare          Net
           [        ]    [        ]    [        ]

  Select
  =>

  | Weigh | Weigh In | Weigh Out | Scale  | Supervisor |
  |       |          |           | Select |   Mode     |
```

*Figure 1-1. Main Screen*

The main screen consists of general information that will be added as information is accessed from the database.

| Softkey | Description |
|---------|-------------|
| Weigh | Select this softkey to do a single weighment |
| Weigh In | Allows truck ID entry; generates weigh-in ticket |
| Weigh Out | Allows truck ID entry; generates weigh-out ticket |
| Scale Select | For multi-scale applications, provides a prompt to enter the scale number to be displayed |
| Supervisor Mode | Allows information to be added to the database |

*Table 1-1. Softkey Descriptions*

All of the softkeys access additional function parameters and are explained in further detail in the following sections.

# 2.0 Supervisor Mode

Within the supervisors screen you are able to enter/edit customers, products, trucks, projects, and access report functions.

1. Press the **Supervisor Mode** softkey from the main menu screen to access the supervisor menu main screen, shown in Figure 2-1.



| 10/22/07 | | 08:05AM | SCALE #1 |
|---|---|---|---|
| 1 | Edit | Customer | |
| 2 | Edit | Product | |
| 3 | Edit | Truck | |
| 4 | Edit | Project | |
| 5 | Go to | Report Name | |
| 6 | Clear | Transactions | |
| 7 | Change | Password | |
| 8 | Edit | System | |

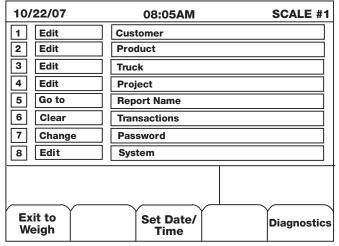| Exit to Weigh | | Set Date/ Time | | Diagnostics |

*Figure 2-1. Supervisor Menu Main Screen*

2. Using the numeric keypad on the *920i* or the front panel keypad, select the desired field.



*Figure 2-2. 920i Numeric Keypad*

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## 2.1    Customer

1. Select *1 - Customer,* to access the customer entry screen, shown in Figure 2-3.
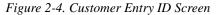


*Figure 2-3. Customer Entry Screen*

2. Enter the field number to be edited using the numeric keypad. The following table lists the amount of characters allowed for each field.

| Field | Characters Allowed |
|---|---|
| ID | 16 character alphanumeric |
| Name | 20 character alphanumeric |
| Address 1 | 20 character alphanumeric |
| Address 2 | 20 character alphanumeric |
| Address 3 | 20 character alphanumeric |
| Phone | 20 character alphanumeric |
| Accum | Can't edit, view only |

*Table 2-1. Customer Entry Character Parameters*

3. Enter customer information using the **up/down, right/left** navigation keys, to scroll through the alpha-numeric menu.

4. Move the cursor back down to the **Enter** line and press **enter** to save.



*Figure 2-4. Customer Entry ID Screen*

**Note**    *When entering the customer ID, if it is not currently found in the program, the on-screen prompt tells you that it's not found, but adding that entered customer ID number. Press the* Save *softkey to save the new customer ID.*

5. Enter other customer parameters, using the same steps.

6. When complete, press the **Exit to Weigh** softkey to access the weigh screen or the **Menu/Cancel** softkey to go to the Supervisor main menu.

## 2.2 Product

1. Select **2** - *Product*, from the Supervisor's main menu to access the product parameter screens.

```
10/22/07              08:05AM              SCALE #1

  1   ID       [                                    ]
  2   Name     [                                    ]
  3   Rate     [                                    ]
  4   Accum    [                                    ]
  5   Total    [                                    ]
  6            [                                    ]
  7            [                                    ]

             Enter Selection Number

  Products

  Exit to                                   Menu/
  Weigh                                     Cancel
```

*Figure 2-5. Product Entry Screen*

2. Enter the field number to be edited on the numeric keypad. The following table lists the amount of characters allowed for each field.

| Field | Characters Allowed |
|-------|-------------------|
| ID | 16 character alphanumeric |
| Name | 20 character alphanumeric |
| Rate | Numeric |
| Accum | Can't edit/view only |
| Total | Can't edit/view only |

*Table 2-2. Product Entry Character Parameters*

3. Use the **up/down** navigation keys, to scroll through the alpha-numeric menu to edit or enter the product information.

4. Press **enter** to save the values. Additional entries can be made by using the navigation keys to add additional products.

5. When complete, use the **Menu/Cancel** softkey to go to the Supervisor Main Menu screen.

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## 2.3 Truck

1. Select 3 - *Truck*, from the Supervisor's main menu to access the truck parameter screen.



*Figure 2-6. Truck Entry Screen*

2. Enter the field number to be edited on the numeric keypad. The following table lists the amount of characters allowed for each field.

| Field | Characters Allowed |
|---|---|
| ID | 16 character alphanumeric |
| Tare | Numeric (keyed or from scale) |
| Descrip | 20 character alphanumeric |
| Accum | Can't edit/view only |

*Table 2-3. Truck Entry Character Parameters*

3. Using the **up/down** navigation keys, to scroll through the alpha-numeric to edit or enter the truck information.

4. Press **Save** softkey to save the values. Additional entries can be made by using the navigation keys to add additional truck numbers.

5. To store a tare value taken from the scale, press the **2** key after selecting an ID and press **enter** with nothing entered. This stores the the current weight on the scale as the tare.

6. When complete, use the **Menu/Cancel** softkey to go to the Supervisor Main Menu screen.

## 2.4 Project

1. Select 4 - *Project* from the Supervisor's main menu to access the project parameters screen.
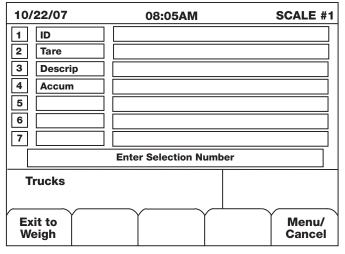


*Figure 2-7. Project Entry Screen*

2. Enter the field number to be edited on the numeric keypad. The following table lists the amount of characters allowed for each field.

| Field | Characters Allowed |
|-------|-------------------|
| ID | 20 character alphanumeric |
| Name | 20 character alphanumeric |
| Descrip 1 | 20 character alphanumeric |
| Descrip 2 | 20 character alphanumeric |
| Accum | Can't edit/view only |

*Table 2-4. Project Entry Character Parameters*

3. Use the **Up/down** navigation keys to scroll through the alphanumeric keys to edit or enter the project information.

4. Press **Save** softkey to save.

5. When complete, use the **Menu/Cancel** softkey to go to the Supervisor Main Menu screen.

## 2.5    Report Menu

1. Select **5** - *Report Menu* from the Supervisor's main menu to access the reporting parameter screens.



*Figure 2-8. Report Entry Screen*



*Figure 2-9. Report Entry Screen (more)*

2. There are several types of reports that can be generated through this screen which include customer reports, product reports, transaction reports, truck reports, and project reports. To access a particular report, select the number using the numeric keypad on the 920i. The report will be printed on the attached printer.

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### 2.5.1 Print Sample

1. Select the Print Sample softkey to access the print selections.



*Figure 2-10. Print Sample Selections Screen*

### 2.5.2 Set EOL Delay

Enter the delay between printed lines if the printer buffer is getting overloaded.

The default setting is 2 and time is entered in milliseconds.

### 2.5.3 Report Printer Port

Enter the port that the reports (including customer, product, project, truck, transaction, and ticket format reports) will print.

The default setting is port 3, although ports 1-4 can be used.

### 2.5.4 Printer Ticket Formats

This prints the contents of the weigh ticket, weigh in ticket, and the weigh out ticket for ticket formatting to see what has been currently entered and it will be printed on the report printer.

### 2.5.5 View Data Fields

Select the View Data Fields softkey to view a list of available ticket fields. Table 2-5 lists the available ticket fields.

| Item | Data Field | | Item | Data Field | | Item | Data Field |
|------|------------|---|------|------------|---|------|------------|
| 1 | Truck ID | | 12 | Customer Name | | 23 | Product Total |
| 2 | Product ID | | 13 | Header 1 | | 24 | Truck Accum |
| 3 | Customer ID | | 14 | Header 2 | | 25 | Net in Tons |
| 4 | Time and Date | | 15 | Header 3 | | 26 | Project ID |
| 5 | Gross | | 16 | Customer Address 1 | | 27 | Project Name |
| 6 | Tare | | 17 | Customer Address 2 | | 28 | Project Description 1 |
| 7 | Net | | 18 | Customer Address 3 | | 29 | Project Description 2 |
| 8 | Value | | 19 | Customer Phone | | 30 | Project Accum |
| 9 | Transaction # | | 20 | Customer Accum | | / | Transmit Text |
| 10 | Truck Description | | 21 | Product Rate | | C | Transmit Character - decimal value |
| 11 | Product Name | | 22 | Product Accum | | | |

*Table 2-5. Available Ticket Fields*

## 2.5.6 Format Ticket

1. Format a ticket by selecting the **Format Ticket** softkey screen as shown in Figure 2-8 and select the print format to be edited. The following screen is displayed.

```
10/22/07              08:05AM              SCALE #1

  1 │ Format    │ Weigh Ticket                      │
  2 │ Format    │ Weigh In Ticket                   │
  3 │ Format    │ Weigh Out Ticket                  │
  4 │           │                                   │
  5 │           │                                   │
  6 │           │                                   │
  7 │           │                                   │
      │         Enter Selection Number            │

  Choose Type to Format

  ┌─────────┐                           ┌─────────┐
  │ Exit to │                           │  Menu/  │
  │  Weigh  │                           │ Cancel  │
  └─────────┘                           └─────────┘
```

*Figure 2-11. Format Ticket Select*

2. Choose the type of ticket format type by using the numeric keypad to select **1**, **2**, or **3**. Figure 2-12 illustrates an example of the weigh ticket format screen.

```
10/22/07              08:05AM              SCALE #1



         ┌──────────────────────────┐
         │  Press Cancel to End     │
         └──────────────────────────┘



  Weigh Ticket Format
  Enter Row

  ┌─────────┐        ┌─────────┐        ┌─────────┐
  │  Home   │        │ Cancel  │        │   End   │
  └─────────┘        └─────────┘        └─────────┘
```

*Figure 2-12. Format Ticket Screen*

3. Enter information and press **enter** to save your entry.

📝**Note** *This can also be done through the Database Editor. To view the database rows/columns for the sample ticket shown below, see Appendix 7.2.*

*Table 1-1. Data Fields Parameters*

*Figure 2-13. Weigh Ticket Example*

### 2.5.7 Clear Format

1. Select the **Clear Format** (Figure 2-8) softkey to clear the ticket format.

## 2.6 Transactions

1. Select **6** - *Transactions* from the Supervisor's main menu to delete all stored transactions. The following screen is displayed.
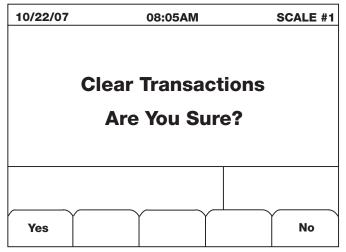


*Figure 2-14. Transaction Menu Screen.*

2. If you wish to clear all transactions from the database, press the **Yes** softkey. After pressing *Yes* or *No* to clear the transaction database, it will prompt asking if the user wants to clear all of the accumulated totals.

```
10/22/07              08:05AM              SCALE #1




           Clear All  Accum Totals?

              Are You Sure?




    Yes                                        No
```
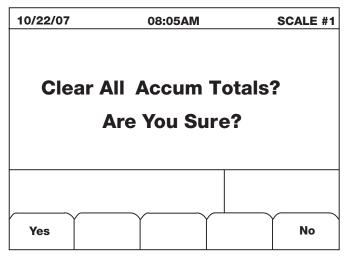
*Figure 2-15. Clear Accumulated Totals Screen*

3. Press Yes to clear all of the customer, truck, product, and project accumulations.

## 2.7 Password

1. Select **7** - *Password* from the Supervisor's main menu to access the password parameter screen.
2. Follow the on-screen prompt to either keep the password or change the password.
3. Press **enter** to save the entry.

## 2.8 System

1. Select **8** - *System* from the Supervisor's main menu to access the system parameters. The following screen is displayed.



```
10/22/07              08:05AM              SCALE #1
  1 |   Store Transaction Records   |      Yes
  2 |   Allow Transient Customers   |      Yes
  3 |        Print on Weigh In      |      Yes
  4 |      Transaction Number       |       0
  5 |        Use Stored Tare        |      Yes
  6 |         Weigh Out By          |    Truck ID
  7 | Tare Key Enabled to Modify Truck Tares |  Yes
  8 | Customer Auto Prompt in Weighs |     Yes
  9 | Product Auto Prompt in Weighs  |     Yes
  0 | Project Auto Prompt in Weighs  |     Yes


 Exit to              Edit
 Weigh                Labels               Menu
```
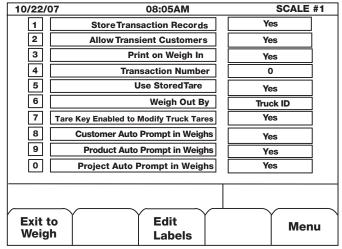
*Figure 2-16. System Parameters*

2. Select the parameter to access using the numeric keypad. The following describes the system parameters.

### Store Transaction Records

**Yes** – transaction database is updated after every transaction.

**No** – nothing is updated.

### Allow Transient Customers

**Yes** – updates the database when a new customer is added on the fly.

**No** – does not save this data and the only way to add to the database is through the Supervisor softkey.

### Print on Weigh In

Selects whether or not a ticket will be printed after a truck is weighed in.

### Transaction Number

Displays the current transaction number and also allows the number to be reset. The next transaction number will be 1 higher than the value shown.

### Use Stored Tare

**Yes** – uses the stored tare in the vehicle database.

### Weigh Out By

When you press the Weigh Out button, the *Weigh Out By* prompt looks up the first weight reading that was taken depending on if it was set up for a truck ID or a tran ID. This parameter toggles between Truck ID and Tran ID, the default is Truck ID.

### Tare Key Enabled

**Yes** – allows the tare key to be pressed in between transactions and will prompt for a truck ID, either new or currently stored. After entering an ID, the *920i* will take the weight on the scale and store it as the tare for that truck ID, as a quick way to edit tares.

**No** – function is disabled.

### Customer Auto Prompt on Weighs

**Yes** – at weigh or weigh in after prompting for a truck ID the system will prompt for a Customer ID, Product ID, and Project ID.

**No** – system will prompt for Truck ID only and other ID can be selected separately.

### Product Auto Prompt on Weighs

**Yes** – at weigh or weigh in after prompting for a truck ID, the system will prompt for a product ID.

**No** – system will prompt for Truck ID only and you can select other IDs separately.

### Project Auto Prompt on Weighs

**Yes** – at weigh or weigh in after prompting for a truck ID, the system will prompt for a project ID.

**No** – system will prompt for Truck ID only and you can select other IDs separately.

### Edit Labels Softkey

Press this key and follow the prompts to change the labels for the actual words, *Customer, Project, Produc*t, and *Truck* in the screens and displayed messages throughout the system.

The defaults are Customer, Project, Product, and Truck.

3. When complete, use the Menu softkey to exit out of the system menu screen.

## 2.9   Set Date Time

1. Press the Set Date Time softkey to access the time and date.
2. Use the on-screen prompts to enter the month, day, year, and time.

## 2.10 Diagnostics

Figure 2-17 shows an example of a *920i* display of iQube diagnostic information. Information shown includes the following:

- Cell name
- Cell deadload value (mV)
- Current individual cell and total values (mV)
- Number of weighments
- Cell status for highlighted cell. Use the indicator navigation keys to select cells.

**Note** *Displayed deadload and current values are raw millivolt values. All diagnostic measurements use corrected mV values:*

corrected_value = current_value – deadload_value

```
10/22/07              08:05AM              SCALE #1
Diagnostics
            NAME              DEADLOAD   CURRENT
A2-Load Cell 2                  0.1871    0.2159
A3-Load Cell 3                  1.1509    0.0547
A4-Load Cell 4                  0.7567    0.7301
A5-Load Cell 5                  0.3791    0.3583
A6-Load Cell 6                  0.0931    0.1565
A7-Load Cell 7                  0.7079    0.6655

System 1                                 17.24608
44 weighments over 1000 grads
                                 Cell OK

  Previous            Done       Cell      Next
                               Emulation
```

*Figure 2-17. 920i Diagnostic Display*

The *920i* diagnostic display can be shown by pressing the **Diagnostic** softkey (if configured).

In setup mode, diagnostic information can be shown by going to the VERS menu, pressing the **Contact** softkey, then the **Next** softkey.

Access through the VERS menu also displays softkeys for **Clear Diagnostics** and, if cell emulation is enabled, **Cell Emulation**. If cell emulation is set to AUTO2 or MANUAL2, a **Snapshot** softkey is also shown.

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# 3.0    Scale Select

If more than one scale is connected to the *920i*, the Scale Select softkey allows the user to select which scale to use.



| 10/22/07 | 08:05AM | SCALE #1 |
|---|---|---|
| -888.8888 | Mode Units | Scale #1 |

Truck

Customer

Product

**Scale Select
Scale Number**

| Home | | Cancel | | End |

*Figure 3-1. Scale Selection Screen*

1. Use the numeric keypad to select the scale number.
2. Press the enter key to save the scale number.
3. To end out of the scale selection screen, press the Cancel softkey.

# 4.0 Weighing

## 4.1 Weigh In

The general weigh-in procedure is as follows:

1. The truck moves onto the scale for weigh-in.
2. Press the Weigh In softkey. The following screen is displayed.



*Figure 4-1. Weigh In Screen*

3. Enter the truck ID by using the numeric keys on the 920i. Press enter to save the ID number.

> **Note** *If the truck ID has already been entered and a weigh in has already been complete, the following error message appears on the user screen:*
>
> *"Error, Truck is Weighed In."*

4. Enter the Customer ID, Product ID, and Project ID as the series of prompts come up.

> **Note** *Press enter without keying in an ID for any of the above as it is not necessary to enter those. If Auto-prompt is set to No in the Supervisor System menu this will not prompt through all IDs and the user will have to press individual softkeys to select customer, project, product IDs separately.*

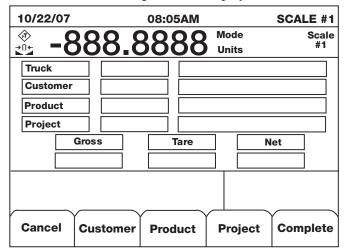5. After valid truck IDs are entered the following screen is displayed.



*Figure 4-2. Truck ID Data*

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### 4.1.1  Customer Selection - Optional

1. Enter the customer selection by using the **up/down, right/left** navigation keys, to scroll through the numeric menu.
2. Press **enter** to save the customer selection or press **enter** without typing anything into the *Enter Customer* field.
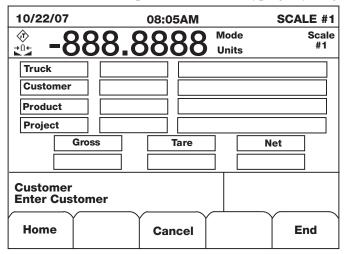


*Figure 4-3. Customer Selection Screen*

### 4.1.2  Product Selection - Optional

1. Enter the product selection by using the up/down, right/left navigation keys, to scroll through the alpha-numeric menu.
2. Press **enter** to save the product selection or press **enter** without typing anything into the *Enter Prod ID* field.



*Figure 4-4. Product Selection Screen*

### 4.1.3 Project Selection

1. Enter the project selection by using the up/down, right/left navigation keys, to scroll through the alpha-numeric menu.

2. Press **enter** to save the project selection or press **enter** without typing anything into the *Enter Project* field.



| 10/22/07 | 08:05AM | SCALE #1 |
|---|---|---|

-888.8888  Mode  Units  Scale #1

Truck
Customer
Product
Project

Gross   Tare   Net

Product
Enter Prod ID

Home   Cancel   End

*Figure 4-5. Project Selection Screen*

3. Once the customer and product and project are entered and saved, press the **Complete** softkey to complete the weigh in. The following screen is shown and the indicator generates a weigh-in ticket.



| 10/22/07 | 08:05AM | SCALE #1 |
|---|---|---|

-888.8888  Mode  Units  Scale #1

Truck
Customer
Product
Project

Gross   Tare   Net

Complete

Weigh   Weigh In   Weigh Out   Scale Select   Supervisor Mode

*Figure 4-6. Weigh In Complete Screen*

### 4.1.4 Weigh In Canceled

If you want to quit the weigh in, use the **Cancel** softkey (shown in Figure 4-5) to cancel the weigh in process.

## 4.2    Weigh Out

The general weigh-out procedure is as follows:

### 4.2.1    Truck Number or Transaction Lookup

1.  Enter the truck number or the transaction lookup number (depending on what you have set up in the Supervisor menu system parameter) by using the **up/down, right/left** navigation keys, to scroll through the alpha-numeric menu.



*Figure 4-7. Weigh Out Truck Number*

2.  Press **enter** to save the truck number.



*Figure 4-8. Truck Info Screen*

3.  Once the customer and product are entered and saved, press the **Complete** softkey to complete the weigh in. The truck ID (temporarily stored), is then deleted from the truck database.

## 4.3    Weigh

1.  To perform a single weighment, select the Weigh softkey. The truck ID entry screen is displayed.



*Figure 4-9. Truck ID Entry Screen*

2.  Use the up/down, right/left navigation keys, to scroll through the alpha-numeric menu to enter the truck ID (shown in Figure 4-9).
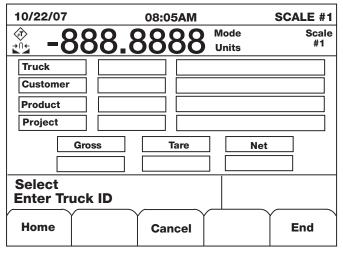
3.  Move the cursor back down to the Truck ID entry and press enter to save the truck ID. If no tare has been entered, it will prompt for a tare (Figure 6-7).

4.  Enter the Customer ID, Product ID, and Project ID as the series of prompts come up.

**Note**    *Press* enter *without keying in an ID for any of the above as it is not necessary to enter those. If Auto-prompt is set to No in the Supervisor System menu this will not prompt through all IDs and the user will have to press individual softkeys to select customer, project, product IDs separately.*

5.  The following screen is now displayed.You can select customer or product from the menu softkeys if they have not been entered.



*Figure 4-10. Customer Selection*

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### 4.3.1    Customer Selection - Optional

1. Enter the customer selection by using the **up/down right/left** navigation keys to scroll through the numeric menu.
2. Press **enter** to save the customer selection.



*Figure 4-11. Customer Selection Screen*

### 4.3.2    Product Selection - Optional

1. Enter the product selection by using the **up/down, right/left** navigation keys, to scroll through the alpha-numeric menu.
2. Press **enter** to save the product selection.



*Figure 4-12. Product Selection Screen*

### 4.3.3   Project Selection - Optional

1.  Enter the product selection by using the up/down, right/left navigation keys, to scroll through the alpha-numeric menu.
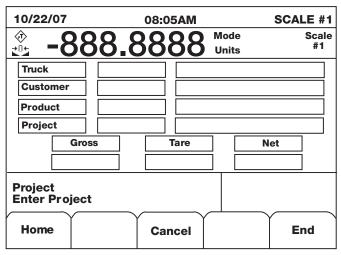
2.  Press the Complete softkey, to finish the weighment.



*Figure 4-13. Project Selection Screen*

3.  Once the truck is weighed the following screen is displayed. Now the truck can exit the scale.



*Figure 4-14. Weigh Selection Complete*

# 5.0    Appendix

| Control | ASCII | Dec. | Hex | ASCII | Dec. | Hex | ASCII | Dec. | Hex | ASCII | Dec | Hex |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ctrl-@ | NUL | 00 | 00 | space | 32 | 20 | @ | 64 | 40 | ` | 96 | 60 |
| Ctrl-A | SOH | 01 | 01 | ! | 33 | 21 | A | 65 | 41 | a | 97 | 61 |
| Ctrl-B | STX | 02 | 02 | " | 34 | 22 | B | 66 | 42 | b | 98 | 62 |
| Ctrl-C | ETX | 03 | 03 | # | 35 | 23 | C | 67 | 43 | c | 99 | 63 |
| Ctrl-D | EOT | 04 | 04 | $ | 36 | 24 | D | 68 | 44 | d | 100 | 64 |
| Ctrl-E | ENQ | 05 | 05 | % | 37 | 25 | E | 69 | 45 | e | 101 | 65 |
| Ctrl-F | ACK | 06 | 06 | & | 38 | 26 | F | 70 | 46 | f | 102 | 66 |
| Ctrl-G | BEL | 07 | 07 | ' | 39 | 27 | G | 71 | 47 | g | 103 | 67 |
| Ctrl-H | BS | 08 | 08 | ( | 40 | 28 | H | 72 | 48 | h | 104 | 68 |
| Ctrl-I | HT | 09 | 09 | ) | 41 | 29 | I | 73 | 49 | i | 105 | 69 |
| Ctrl-J | LF | 10 | 0A | * | 42 | 2A | J | 74 | 4A | j | 106 | 6A |
| Ctrl-K | VT | 11 | 0B | + | 43 | 2B | K | 75 | 4B | k | 107 | 6B |
| Ctrl-L | FF | 12 | 0C | , | 44 | 2C | L | 76 | 4C | l | 108 | 6C |
| Ctrl-M | CR | 13 | 0D | - | 45 | 2D | M | 77 | 4D | m | 109 | 6D |
| Ctrl-N | SO | 14 | 0E | . | 46 | 2E | N | 78 | 4E | n | 110 | 6E |
| Ctrl-O | SI | 15 | 0F | / | 47 | 2F | O | 79 | 4F | o | 111 | 6F |
| Ctrl-P | DLE | 16 | 10 | 0 | 48 | 30 | P | 80 | 50 | p | 112 | 70 |
| Ctrl-Q | DC1 | 17 | 11 | 1 | 49 | 31 | Q | 81 | 51 | q | 113 | 71 |
| Ctrl-R | DC2 | 18 | 12 | 2 | 50 | 32 | R | 82 | 52 | r | 114 | 72 |
| Ctrl-S | DC3 | 19 | 13 | 3 | 51 | 33 | S | 83 | 53 | s | 115 | 73 |
| Ctrl-T | DC4 | 20 | 14 | 4 | 52 | 34 | T | 84 | 54 | t | 116 | 74 |
| Ctrl-U | NAK | 21 | 15 | 5 | 53 | 35 | U | 85 | 55 | u | 117 | 75 |
| Ctrl-V | SYN | 22 | 16 | 6 | 54 | 36 | V | 86 | 56 | v | 118 | 76 |
| Ctrl-W | ETB | 23 | 17 | 7 | 55 | 37 | W | 87 | 57 | w | 119 | 77 |
| Ctrl-X | CAN | 24 | 18 | 8 | 56 | 38 | X | 88 | 58 | x | 120 | 78 |
| Ctrl-Y | EM | 25 | 19 | 9 | 57 | 39 | Y | 89 | 59 | y | 121 | 79 |
| Ctrl-Z | SUB | 26 | 1A | : | 58 | 3A | Z | 90 | 5A | z | 122 | 7A |
| Ctrl-[ | ESC | 27 | 1B | ; | 59 | 3B | [ | 91 | 5B | { | 123 | 7B |
| Ctrl-\ | FS | 28 | 1C | < | 60 | 3C | \ | 92 | 5C | \| | 124 | 7C |
| Ctrl-] | GS | 29 | 1D | = | 61 | 3D | ] | 93 | 5D | } | 125 | 7D |
| Ctrl-^ | RS | 30 | 1E | > | 62 | 3E | ^ | 94 | 5E | ~ | 126 | 7E |
| Ctrl-_ | US | 31 | 1F | ? | 63 | 3F | _ | 95 | 5F | DEL | 127 | 7F |

*Figure 5-1. ASCII Character Chart (Part 1)*

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| ASCII | Dec | Hex | ASCII | Dec | Hex | ASCII | Dec | Hex | ASCII | Dec | Hex |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ç | 128 | 80 | á | 160 | A0 |  | 192 | C0 | a | 224 | E0 |
| ü | 129 | 81 | í | 161 | A1 |  | 193 | C1 | b | 225 | E1 |
| é | 130 | 82 | ó | 162 | A2 |  | 194 | C2 | G | 226 | E2 |
| â | 131 | 83 | ú | 163 | A3 |  | 195 | C3 | p | 227 | E3 |
| ä | 132 | 84 | ñ | 164 | A4 |  | 196 | C4 | S | 228 | E4 |
| à | 133 | 85 | Ñ | 165 | A5 |  | 197 | C5 | s | 229 | E5 |
| å | 134 | 86 | ª | 166 | A6 |  | 198 | C6 | m | 230 | E6 |
| ç | 135 | 87 | º | 167 | A7 |  | 199 | C7 | t | 231 | E7 |
| ê | 136 | 88 | ¿ | 168 | A8 |  | 200 | C8 | F | 232 | E8 |
| ë | 137 | 89 |  | 169 | A9 |  | 201 | C9 | Q | 233 | E9 |
| è | 138 | 8A | ¬ | 170 | AA |  | 202 | CA | W | 234 | EA |
| ï | 139 | 8B | 1/2 | 171 | AB |  | 203 | CB | d | 235 | EB |
| î | 140 | 8C | 1/4 | 172 | AC |  | 204 | CC | • | 236 | EC |
| ì | 141 | 8D | ¡ | 173 | AD |  | 205 | CD | f | 237 | ED |
| Ä | 142 | 8E | « | 174 | AE |  | 206 | CE | Œ | 238 | EE |
| Å | 143 | 8F | » | 175 | AF |  | 207 | CF | « | 239 | EF |
| É | 144 | 90 |  | 176 | B0 |  | 208 | D0 | ½ | 240 | F0 |
| æ | 145 | 91 |  | 177 | B1 |  | 209 | D1 | ± | 241 | F1 |
| Æ | 146 | 92 |  | 178 | B2 |  | 210 | D2 | Š | 242 | F2 |
| ô | 147 | 93 |  | 179 | B3 |  | 211 | D3 | £ | 243 | F3 |
| ö | 148 | 94 |  | 180 | B4 |  | 212 | D4 | Û | 244 | F4 |
| ò | 149 | 95 |  | 181 | B5 |  | 213 | D5 | € | 245 | F5 |
| û | 150 | 96 |  | 182 | B6 |  | 214 | D6 | [3] | 246 | F6 |
| ù | 151 | 97 |  | 183 | B7 |  | 215 | D7 | [a] | 247 | F7 |
| ÿ | 152 | 98 |  | 184 | B8 |  | 216 | D8 | × | 248 | F8 |
| Ö | 153 | 99 |  | 185 | B9 |  | 217 | D9 | [2] | 249 | F9 |
| Ü | 154 | 9A |  | 186 | BA |  | 218 | DA |  | 250 | FA |
| ¢ | 155 | 9B |  | 187 | BB |  | 219 | DB |  | 251 | FB |
| £ | 156 | 9C |  | 188 | BC |  | 220 | DC |  | 252 | FC |
| ¥ | 157 | 9D |  | 189 | BD |  | 221 | DD | [2] | 253 | FD |
| Pts | 158 | 9E |  | 190 | BE |  | 222 | DE |  | 254 | FE |
| ƒ | 159 | 9F |  | 191 | BF |  | 223 | DF |  | 255 | FF |

*Figure 5-2. ASCII Character Chart (Part 2)*

# 5.1 Serial Port Usage

The following table lists the serial ports for the 920i and their uses with the truck in/out program.

| 920i Serial Port | Description |
|---|---|
| 1 | Unused by program |
| 2 | Unused by program |
| 3 | Printer output |
| 4 | Unused by program |

*Table 5-1. Serial Port Descriptions*

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### 5.1.1 Required 920i Hardware

| Slot # | Description |
|---|---|
| Slot 1 | Single channel A/D card |
| Slot 2 | 1 MB memory card |

*Table 5-2. Required Hardware*

## 5.2 Default Ticket Format

An example of the default ticket format shown on page 10 is shown below using the formatted database rows/columns.

| Row | Column | Text |
|---|---|---|
| 1 | 1 | 13 |
| 2 | 1 | 14 |
| 3 | 1 | 15 |
| 5 | 1 | /Transaction Number |
| 5 | 20 | 9 |
| 6 | 1 | 4 |
| 7 | 1 | /Truck |
| 7 | 10 | 1 |
| 7 | 12 | 10 |
| 8 | 1 | /Customer |
| 8 | 10 | 3 |
| 8 | 12 | 12 |
| 9 | 1 | /Product |
| 9 | 10 | 2 |
| 9 | 12 | 11 |
| 10 | 1 | /Product Rate: $ |
| 10 | 18 | 21 |
| 11 | 18 | /Gross: |
| 11 | 24 | 5 |
| 12 | 18 | /Tare: |
| 12 | 24 | 6 |
| 13 | 18 | /Net: |
| 13 | 24 | 7 |
| 14 | 18 | /Price: $ |
| 14 | 24 | 8 |

*Table 5-3. Default Ticket Format*

To put an ASCII character into the Ticket Format you would put the decimal value of the character preceded by the letter C. So to put 3 line feeds and 1 carriage return character at the end of this ticket, you would add the row in the database below. You could sepeate this out into four different database rows or put it all together like the example shown below.

| Row | Column | Text |
|---|---|---|
| 15 | 1 | C10C10C10C13 |

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