



Operator Manual

AxleMatic Application

For the FB25XX, FB2558 and FB2560 Series Instruments



**FB25XX Series Instrument
Axlematic Application
Operations Manual
Document 51348**

Manufactured by **Fairbanks Scales Inc.**
821 Locust
Kansas City, Missouri 64106

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SECTION 1: GENERAL INFORMATION

1.1. Axlematic Application Overview

The **FB25XX Axlematic Application** operates by capturing axle weights one at a time as they are placed on the platform.

- This application is designed for both short and full-length platform axle scales.
- It is for customers with limited space.

1.1.1. Short Platform Axlematic

- Designed specifically for axle weighing applications on small platforms where only one axle will be on the scale platform at a time.
- Up to **ten (10) axles** can be captured.
- Gross weight is calculated after the last axles is processed.
 - CALCULATED GROSS WEIGHT *is not* Legal-for-Trade.
- Short Platform Axlematic has two (2) Axle Weighing Operating modes.
 - **Basic Axle Weighing**
 - **Axle In / Axle Out**



The screenshot displays the Axlematic application interface. On the left, a photograph shows a truck's rear axle on a scale platform. The main interface includes a data table, control buttons, and a status bar.

6480	lb	Steering
15920	lb	Drive
30160	lb	Tandem
48180	lb	Tandem2
100740	lb	Total

Operating Mode: **Basic Axle Weighing**

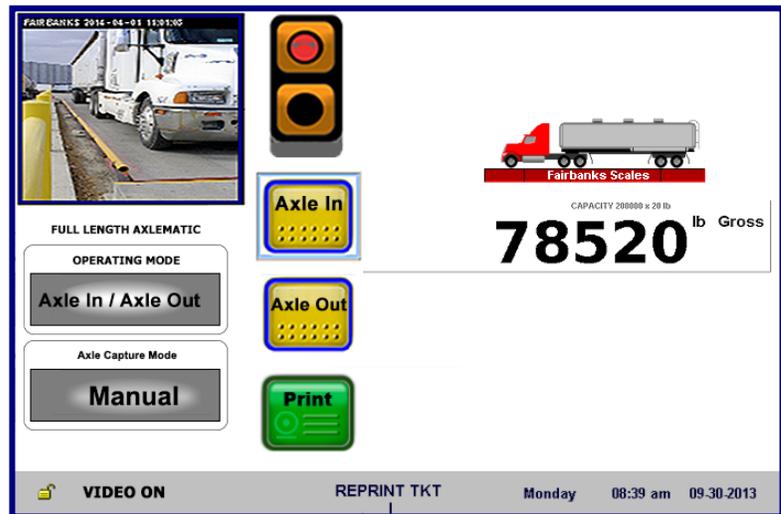
Axle Capture Mode: **Manual**

Buttons: **capture**, **Automatic**, **Finish**

Status Bar: VIDEO ON, REPRINT TKT, Monday 08:39 am 09.30.2013

1.1.2. Full Length Platform Axlematic

- The **Full Length Platform Axlematic** is designed specifically for axle weighing applications on scale platforms long enough to allow the entire vehicle to be fully scale borne when the last axle is on the scale platform.
- Up to ten (10) axles can be captured.
- Gross vehicle weight is obtained once the last vehicle axle is on the scale platform.
 - **FINAL GROSS WEIGHT is Legal-for-Trade.**
- The **Full Length Platform Axlematic** has three (3) Axle Weighing Operating modes.
 - **Basic Axle Weighing.**
 - **Axle In / Axle Out.**
 - **Inbound / Axle Out.**



Important elements of any scale using the **Axlematic Application** are noted below.

- The scale Entrance and exit approach must be level.
 - This directly affects the accuracy of the weighments.
- The Entrance and exit approach must have an extended, accommodating, level lengths.
 - A typical distance is **fifty to seventy feet (50-70')** for each, which will accommodate the trucks being weighed.

1.2. Users' Responsibilities

WARNING!

Absolutely no physical, electrical or program modifications, other than selections of standard options and accessories, can be made by customers to this equipment.

Repairs may only be performed by Fairbanks Scales Service Technicians and Authorized Distributor Personnel ONLY!

The equipment consists of printed circuit assemblies which require strict ESD handling procedures.

All electronics must be replaced as single units, and never as individual components.



SECTION 2: USER OPERATIONS

2.1. Introduction

2.1.1. Keypad Functions

KEY(S)	FUNCTION
Numeric Keys	These keys enter any NUMERIC DATA .
F1	Turns on Camera <i>(if enabled)</i>
F2	Expands Camera image to full screen <i>(if enabled)</i> .
F3	REPRINT TICKET – Reprints the previously printed ticket. <ul style="list-style-type: none"> • When pressed while in the Weigh screen offers a choice of printing the Last Ticket or to Reprint by Ticket Number.
F4	VOIDS – Permanently deletes the TICKET from the database.
F5	SHUTS DOWN the Instrument, <i>displays only when the scale is unloaded</i> . <ul style="list-style-type: none"> • For complete details, see 2.5. Proper Shutdown Procedure.
Enter	ACCEPTS/ STORES a data entry item.
Zero	ZERO's the scale.
Units	Toggles the UNITS option.
Print	Initiates a PRINT CYCLE .
Menu	Opens the CONFIGURATION HOME MENU , allowing the programming functions.
Arrow Keys	NAVIGATES through the programming choices.



IMPORTANT NOTE: An **External Keyboard Accessory (31036 or 25498)** is recommended for inputting tares, editing customers and products, entering alphabetic text, and for navigating thru program options.

2.1.2. External Keyboard Functions

KEY	FUNCTION
F1	Turns on Camera <i>(if enabled)</i>
F2	Expands Camera image to full screen <i>(if enabled)</i> .
F3	REPRINT TICKET – Reprints the previously printed ticket. <ul style="list-style-type: none"> When pressed while in the Weigh screen offers a choice of printing the Last Ticket or to Reprint by Ticket Number.
F4	VOIDS – Permanently deletes a TICKET from the database.
F5	SHUTS DOWN the Instrument, <i>displays only when the scale is unloaded</i> . <ul style="list-style-type: none"> For complete details, see 2.5. Proper Shutdown Procedure.
Alphabetic Keys	Enters all ALPHABETIC TEXT .
Numeric Keys/ Keypad	Enters NUMERIC DATA .
Arrow Keys	NAVIGATES through the programming choices.
Esc	CLEAR, RESET, or RESTART the Instrument, if in the SLEEP Mode . <ul style="list-style-type: none"> The SLEEP mode occurs after exceeding the programmed time period.
HOME	Opens the CONFIGURATION HOME MENU , allowing the programming functions .
PAUSE	ZERO's the scale.
SCROLL LOCK	Toggles the UNITS options.
PRINT SCREEN	PRINTS the ticket.

SHORTCUT KEYS	FUNCTION
Ctrl + Shift + H	Displays the SYSTEM INFORMATION .
Ctrl + Shift + S	Displays the installed EXPANSION MODULES .
Ctrl + Alt = Shift + R	Opens the DATABASE RECOVERY MENU .



2.2. Weighing Operations

2.2.1. Unloaded Scale Functions

When the scale is *unloaded*, the FB25XX Instrument activates these options by using the **Function Keys**.

F3 – REPRINT TKT

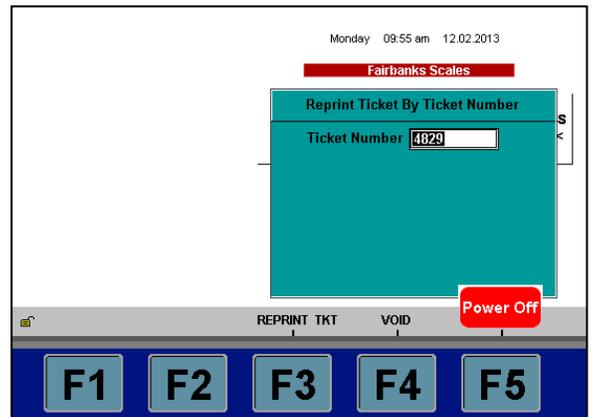
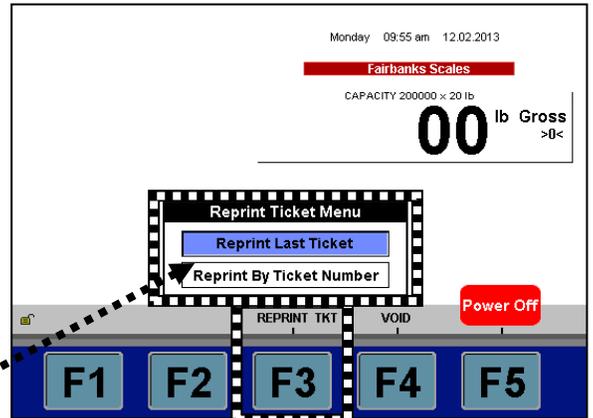
1. Press the **(F3) REPRINT TKT** function button.
2. Select from one of these two options.
 - a. **Reprint Last Ticket.**
 - b. **Reprint By Ticket Number.**
3. Press the **ENTER** button.

F4 – VOID (a ticket)

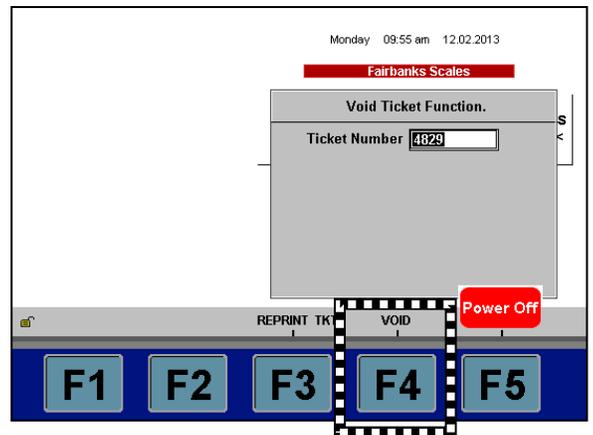
4. Press the **(F4) VOID** function
5. Input the TICKET NUMBER.
6. Press the **ENTER** button.
7. When the **WARNING!** message appears, press the **VOID** button.

F5 – POWER OFF

- For complete details, see [Section 2.5. Proper Shutdown Procedure.](#)



button.



C A U T I O N

All VOIDED TICKETS are **deleted**,
and *cannot be recovered*.

2.2.2. Manual and Automatic Mode Descriptions

MANUAL AXLE Capture Mode *requires* a scale operator to press the **CAPTURE** button to capture each axle weight. Once the last axle is captured, the Operator presses the **FINISH** button.

- A traffic light, intercom or some means for the Operator to signal the driver when to position each axle is required.



AUTOMATIC AXLE Capture Mode *does NOT require* a scale operator if no Product IDs, Customer IDs or other prompts are used in the cycle of operation.

- System operates using configurable weight thresholds and software timers.
- A traffic light **is required** to signal the driver when to position each axle.
- Remote Display is highly recommended.
- In **AUTOMATIC MODE**, the total weight is automatically calculated when system no longer senses additional axles, and the total timer has expired.
- If configured to print a ticket, the system will automatically print the ticket.
- Continuous feed type printer (tape or form style) is recommended for **Automatic mode** applications.



Example of an **Inbound Transaction** message.
A message box displays for **ALL** transaction activity.

2.2.3. Short and Full Length Axlematic Descriptions

There are two weighing applications for the FB25XX.

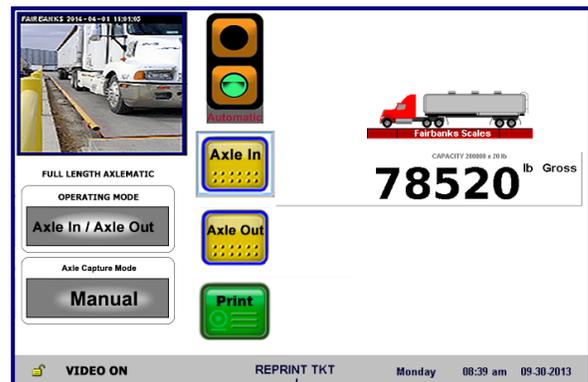
SHORT PLATFORM AXLEMATIC

- Designed specifically for axle weighing applications on small platforms where only one axle (or tandem axle) will be on the scale platform at a time.
- Up to ten axles (or tandems axles) can be captured.
- Gross weight is calculated after the last axles is processed.
 - Calculated Gross weight **is NOT Legal-for-Trade.**
- Short Platform Axlematic has two (2) Axle Weighing Operating modes:
 - **Basic Axle Weighing**
 - **Axle In / Axle Out**



FULL LENGTH PLATFORM AXLEMATIC

- Designed specifically for axle weighing applications on scale platforms long enough to allow the entire vehicle to be fully scale borne when the last axle is on the scale platform.
- Up to ten axles (or tandems axles) can be captured
- Gross vehicle weight is obtained once the last vehicle axle is on the scale platform.
 - Final Gross weight **IS Legal-for-Trade.**
- Full Length Platform Axlematic has three (3) Axle Weighing Operating modes:
 - **Basic Axle Weighing**
 - **Axle In / Axle Out**
 - **Inbound / Axle Out**



2.3. Using the Axlematic Short Platform Application

The **FB25XX Axlematic Short Platform Application** operates by capturing axle weights one at a time as they are placed on the platform. It works only with short platform axle scales.

- This Application allows axle weighing in either the **Manual** or **Automatic Axle capture mode**.

Short Platform Axlematic Application has two (2) axle weighing applications.

- **Basic Axle Weighing**
 - Manual and Automatic Modes
- **Axle In / Axle Out Weighing**

2.3.1. Basic Axle Weighing Manual Mode, Short Platform

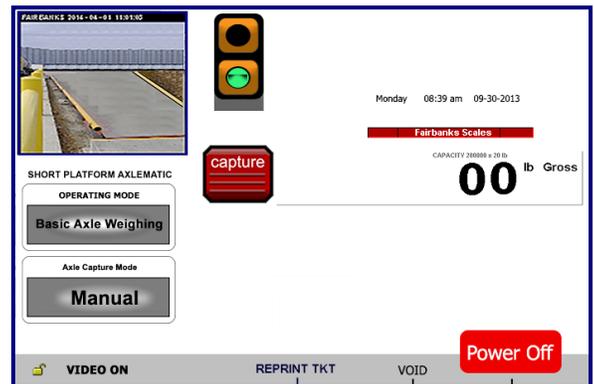
MANUAL AXLE CAPTURE MODE requires a scale operator to press the **CAPTURE** button to capture each axle weight. After the last axle is captured, the operator presses the **FINISH** button.

- A traffic light, intercom or some means for the operator to signal the driver when to position each axle is required.
- This Application uses the **GTN** ticket printing format.
- **SHORT PLATFORM AXLE** transactions on *are not* Legal-for-Trade.

Follow these steps to operate the Basic Axle Weighing Manual Mode, Short Platform.

While the scale platform is empty, the display should show **00**.

1. If the display does not indicate this, press the **ZERO** button on the front panel keypad.
 - The traffic light should be **green**.
2. A vehicle enters the scale.



2.3.1. Basic Axle Weighing Manual Mode, Short Platform, Continued

3. Once the first axle pulls on the scale, the Operator will push the **CAPTURE** button.
 - The traffic light will change to **red** as an indication for the driver to position this axle and stop.

When the motion ceases, the FB25XX will capture the axle weight.

4. The traffic light will turn **green**, signaling the driver to drive forward and place the next axle onto the scale platform.
5. Once the axle is into place, the Operator will push the **CAPTURE** button and the traffic light will change to **red**.
6. Repeat **Steps 4 and 5** until all the axles are all captured.
7. Press the **FINISH** button to totalize all the captured axle weights.
 - If enabled, the system will automatically generate a ticket.



2.3.2. Basic Axle Weighing Automatic Mode, Short Platform

AUTOMATIC AXLE CAPTURE MODE *does not* require a scale operator if no Product IDs, Customer IDs or other prompts are used in the **Cycle of Operation**.

- The system operates using configurable weight thresholds and software timers.
- A traffic light is **required** to signal the driver when to position each axle, and a Remote Display installation is **highly recommended**.
- The total weight is automatically calculated when system no longer senses additional axles and the total timer has expired.
- If configured to do so, the system automatically prints the ticket. A continuous feed printer (tape or form style) is recommended for **Automatic mode** applications.
- This Application uses the **GTN** ticket printing format.
- **SHORT PLATFORM AXLE** transactions on are **not Legal-for-Trade**.

2.3.3. Basic Axle Weighing Automatic Mode, Short Platform, Continued

Follow these steps when weighing vehicles using the **Basic Axle Weighing Automatic Mode, Short Platform**.

While the scale platform is empty, the traffic light should be **green**.

1. A Vehicle enters the scale.
 - Once the first axle is on the scale, the traffic light changes to **red** as an indication for the driver to position this axle and stop.
2. The weight stabilizes and is automatically captured by the Axlematic Application.
3. The traffic light will turn **green**, instructing the driver to proceed and position the next axle on the scale platform.
 - The traffic light will turn **red** while this process occurs.
4. **Steps 2** and **3** will be repeated until all the axles are captured.
5. Once the system no longer senses additional axles and the total timer has expired, the system will automatic totalize all the captured axle weights.
6. If enabled, the system will automatically generate a ticket.



2.3.4. Axle In / Axle Out Weighing Manual Mode, Short Platform

Manual Axle capture mode requires a scale Operator to press the **CAPTURE** button to capture each axle weight. Once last axle is captured, the Operator presses the **FINISH** button.

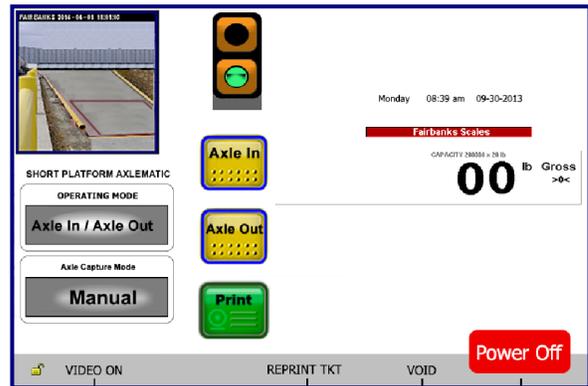
- Vehicle is **required** to **“Axle In”** (Inbound Weighment) and **“Axle Out”** (Outbound Weighment).
- Generates a **GTN / Axle weight ticket** upon completion of the **“Axle Out”** weighment.
- This application uses the Inbound ticket and Outbound ticket formats for Axle weights and Outbound GTN information.
- **SHORT PLATFORM AXLE** transactions on *are not* Legal-for-Trade.

Follow these steps when using the **Axle In / Axle Out Weighing, Manual Mode, Short Platform Scale.**

AXLE IN WEIGHMENT

While the scale platform is empty, the display should display **00**.

1. If the display does not indicate this, press the **ZERO** button on the front panel keypad.
- The traffic light should be **green**.
2. An **Inbound Vehicle** enters the scale.
3. Press the **AXLE IN** button to begin the weighment transaction.
4. The Operator will push the **CAPTURE** button.
- The traffic light will change to **red** as an indication for the driver to position this axle and stop. When motion ceases, the FB25XX will capture the axle weight.



2.3.4. Axle In / Axle Out Weighing Manual Mode, Short Platform, Continued

5. The traffic light will turn **green**, signaling the driver to place the next axle onto the scale platform.

6. Once the axle is into place, the Operator will push the **CAPTURE** button and the traffic light will change to **red**.

7. Repeat **Steps 4 and 5** until all the axles are captured.

8. Press the **FINISH** button to totalize all the captured axle weights.

- The FB25XX will prompt for a **Loop ID**.

9a. Either press the **ENTER** button to use a system generated **Loop ID**,

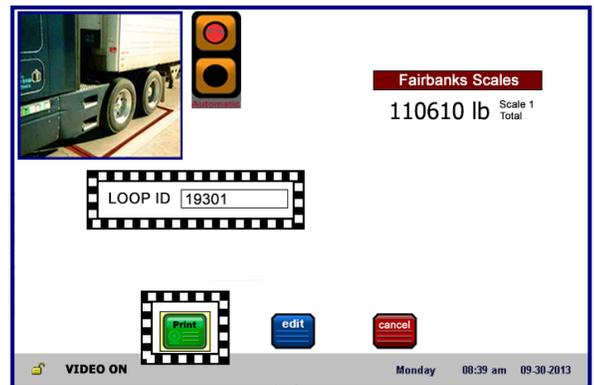
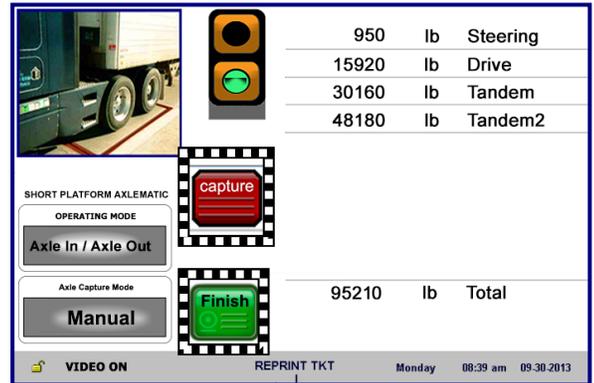
OR...

9b. Enter a known **LOOP ID**, then press **ENTER**.

- The **PRINT**, **EDIT** and **CANCEL** buttons will appear once this is entered.

10. Press **PRINT** to complete this weighment.

- If enabled, the system will automatically generate a ticket.



2.3.4. Axle In / Axle Out Weighing Manual Mode, Short Platform, Continued

AXLE OUT WEIGHMENT

While the scale platform is empty, the display should display **00**.

1. If the display does not indicate this, press the **ZERO** button on the front panel keypad.

- The traffic light should be **green**.

2. An **Outbound Vehicle** enters the scale.

3. Press the **AXLE OUT** button to begin the weighment transaction.

4. The Operator will push the **CAPTURE** button.

- The traffic light will change to **red** as an indication for the driver to position this axle and stop.

5. When motion ceases, the FB25XX will capture the axle weight.

6. The traffic light will turn **green**, signaling the driver to place the next axle onto the scale platform.

7. Once the axle is into place, the Operator will push the **CAPTURE** button and the traffic light will change to **red**.

8. Repeat **Steps 4 and 5** until all the axle are all captured.

9. Press the **FINISH** button to totalize all the captured axle weights.

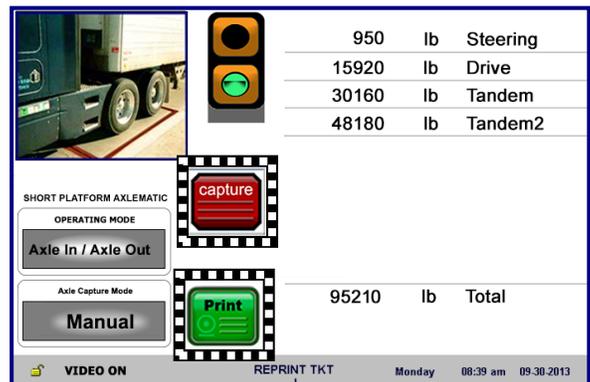
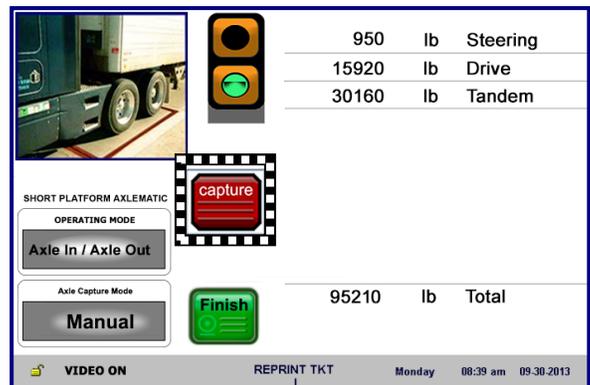
- The FB25XX will prompt for a Loop ID.

10. Enter the **LOOP ID** from the **Inbound Transaction**, then press **ENTER**.

- The **PRINT, EDIT** and **CANCEL** buttons will appear once this is entered.

11. Press **PRINT** to complete this weighment.

- If enabled, the system will automatically generate a ticket.



2.3.5. Axle In / Axle Out Automatic Mode, Short Platform

AUTOMATIC AXLE CAPTURE MODE requires a scale operator to select **AXLE IN** or **AXLE OUT** at after the final axle. This also requires an Operator to enter the **LOOP ID**, any **Product IDs**, **Customer IDs** or other prompts are used in the Cycle of Operation.

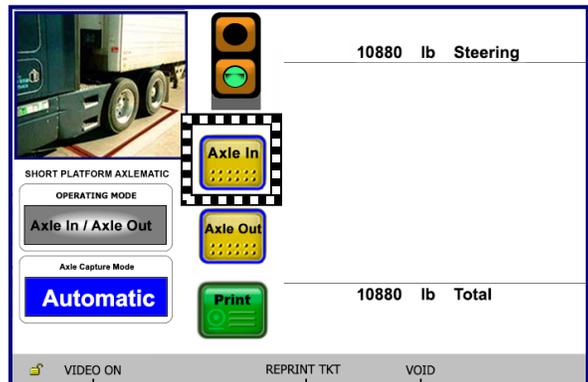
- Vehicle is **required** to **“Axle In”** (Inbound Weighment) and **“Axle Out”** (Outbound Weighment).
- The system operates using configurable weight thresholds and software timers.
- A traffic light is **required** to signal the driver when to position each axle, and a Remote Display installation is **highly recommended**.
- The total weight is automatically calculated when system no longer senses additional axles and the total timer has expired.
- If configured to do so, the system automatically prints the ticket. A continuous feed printer (tape or form style) is recommended for **Automatic mode** applications.
- This application uses the Inbound ticket and Outbound ticket formats for Axle weights and Outbound GTN information.
- **SHORT PLATFORM AXLE** transactions on *are not* Legal-for-Trade.

Follow these steps when using the Axle In / Axle Out Weighing, Automatic Mode, Short Platform Scale.

AXLE IN WEIGHMENT

While the scale platform is empty, the traffic light should be **green**.

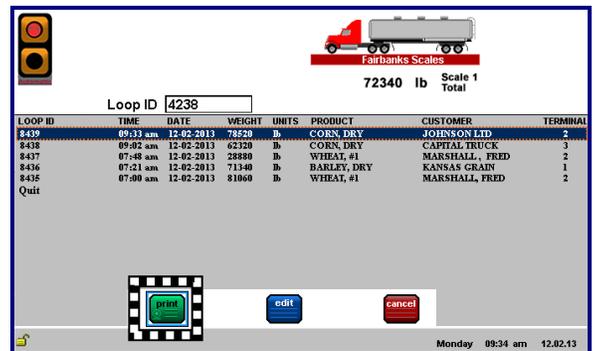
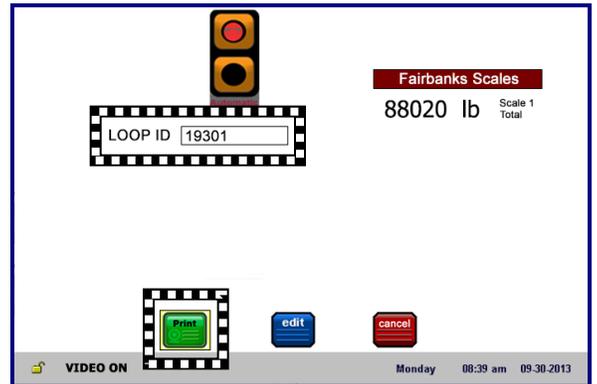
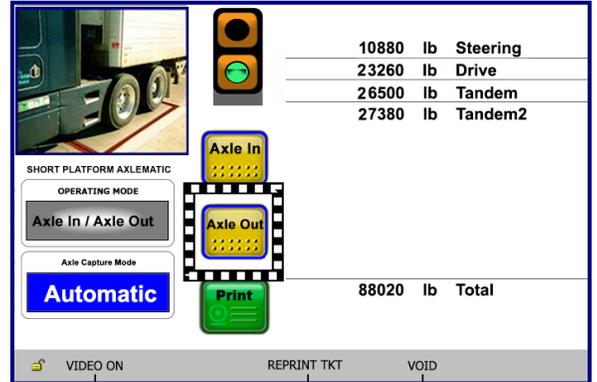
1. The Inbound vehicle enters the scale platform.
2. The traffic light will change to **red** as an indication for the driver to position this axle and stop.
3. When motion ceases, the FB25XX will capture the axle weight.
 - The traffic light will turn **green**, signaling the driver to place the next axle onto the scale platform.



2.3.5. Axle In / Axle Out Automatic Mode, Short Platform, Continued

4. **Steps 2 and 3** will repeat until all the axles are captured.
5. Once the system no longer senses additional axles and the total timer has expired, the system will automatic totalize all the captured axle weights.
6. The FB25XX will now hold prompting the Operator to select either the **AXLE IN** or **AXLE OUT** button. Since this is an Axle IN weighment, **AXLE IN** should be selected.
- 7a. The FB25XX will prompt the Operator for a **Loop ID**
 - Either press the **ENTER** button to use a system generated **Loop ID**,

OR...
- 7b. Enter a known **LOOP ID**, then press **ENTER**.
 - The **PRINT**, **EDIT** and **CANCEL** buttons will appear once this is entered.
8. Press **PRINT** to complete this weighment.
 - If enabled, the system will automatically generate a ticket.

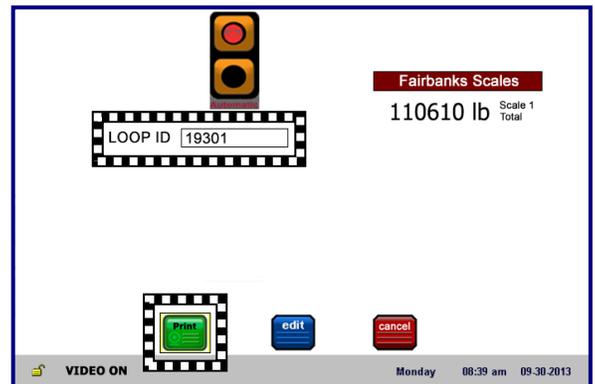
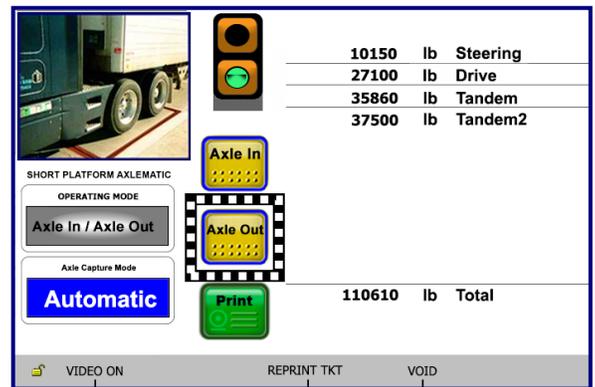


2.3.5. Axle In / Axle Out Automatic Mode Short Platform, Continued

AXLE OUT WEIGHMENT

While the scale platform is empty, the traffic light should be **green**.

1. The **Inbound vehicle** enters the scale platform.
2. The traffic light will change to **red** as an indication for the driver to position this axle and stop.
 - When motion ceases, the FB25XX will capture the axle weight.
3. The traffic light will turn **green**, signaling the driver to place the next axle onto the scale platform.
4. **Steps 2 and 3** will repeat until all the axles are captured.
5. Once the system no longer senses additional axles and the total timer has expired, the system will automatically totalize all the captured axle weights.
6. The FB25XX will now hold, prompting the Operator to select either the **AXLE IN** or **AXLE OUT** button. Since this is an Axle OUT weighment, **AXLE OUT** should be selected.
 - The FB25XX will prompt the Operator for a Loop ID
7. Enter the **LOOP ID** from the **Inbound Transaction**, then press **ENTER**.
 - The **PRINT, EDIT** and **CANCEL** buttons will appear once this is entered.
8. Press **PRINT** to complete this weighment.
 - If enabled, the system will automatically generate a ticket.



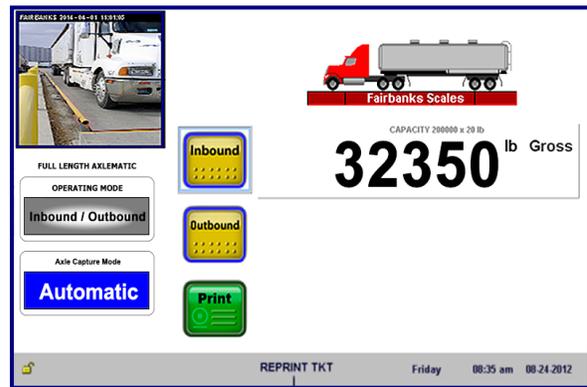
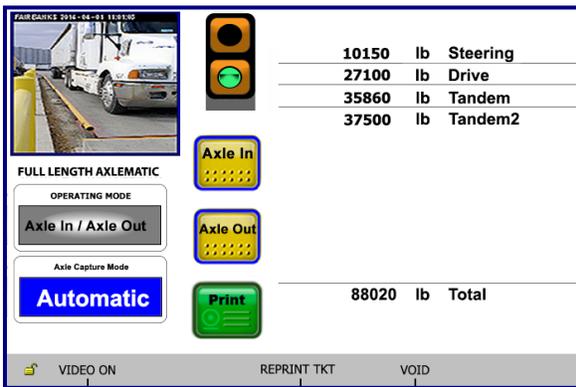
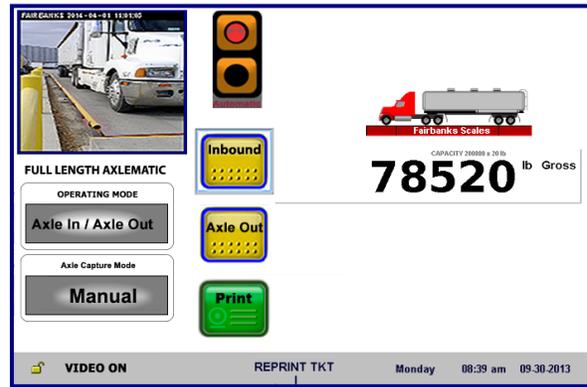
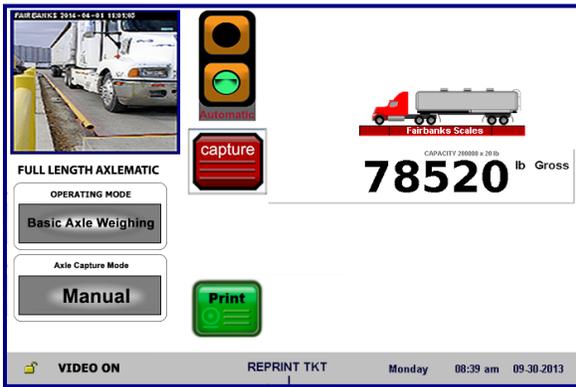
2.4. Using the Axlematic Full Length Platform Application

The **FULL LENGTH PLATFORM AXLEMATIC** is designed specifically for axle weighing applications on scale platforms long enough to allow the entire vehicle to be fully scale borne when the last axle is on the scale platform.

The **BASIC AXLE WEIGHING AXLEMATIC APPLICATION** allows axle weighing in either a **MANUAL** or **AUTOMATIC AXLE CAPTURE MODE**.

The **FULL LENGTH PLATFORM AXLEMATIC** has four (4) Axle Weighing Operation Modes.

- Basic Axle Weighing
- Axle In / Axle Out Weighing
- Inbound / Axle Out Weighing
- Inbound / Outbound



A message box like this displays for all Transaction activity.

2.4.1. Basic Axle Weighing Manual Mode, Full Length Platform

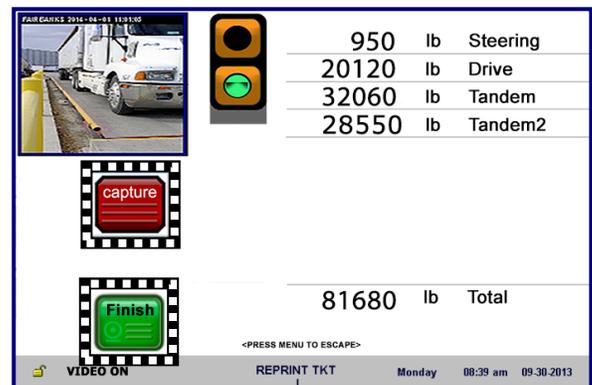
The **MANUAL AXLE CAPTURE MODE** requires a scale operator to press the **CAPTURE** button to capture each axle weight. Once last axle is captured, the Operator presses the **FINISH** button.

- A traffic light signal the driver when to position+-n each axle is required.
- Uses the **GTN** ticket printing format.
 - Axle weights **are not** Legal-for-Trade.
 - Final Gross weight **IS** Legal-for-Trade.

Follow these steps to operate the Basic Axle Weighing Manual Mode, Full Length Platform.

While the scale platform is empty, the traffic light should be **green**.

1. The **Inbound vehicle** enters the scale platform.
2. A Vehicle enters the scale.
3. Once the first axle pulls on the scale, the Operator will push the **CAPTURE** button.
 - The traffic light will change to **red** as an indication for the driver to position this axle and stop.
4. When motion ceases, the FB25XX will capture the axle weight.
5. The traffic light will turn **green**, signaling the driver to drive forward and place the next axle onto the scale platform.
6. Once the axle is into place, the Operator will push the **CAPTURE** button.
 - The traffic light will change to **red**.
7. Repeat **Steps 3 thru 5** until all the axles are all captured.
8. Press the **FINISH** button to totalize all the captured axle weights.
 - If enabled, the system will automatically generate a ticket.



2.4.2. Basic Axle Weighing Automatic Mode, Full Length Platform

The **AUTOMATIC AXLE CAPTURE MODE** does *not* require a scale operator if no Product IDs, Customer IDs or other prompts are used in the cycle of operation.

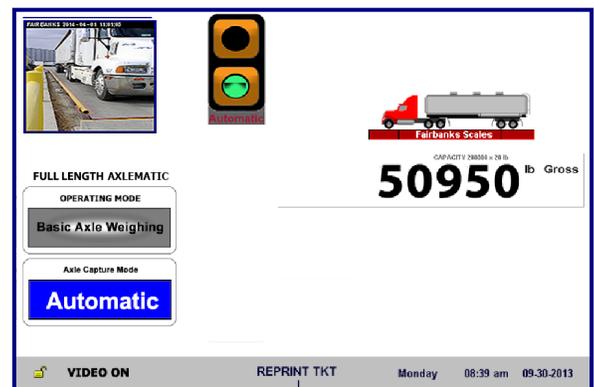
- This system operates using configurable weight thresholds and software timers.
- A traffic light is **required** to signal the driver when to position each axle, and a Remote Display is **highly recommended**.
- When in the **AUTOMATIC mode**, the total weight is automatically calculated when system no longer senses additional axles and the total timer has expired.
 - If the scale is equipped with Intalogix Technology, the system will also automatically total when the weight on the last scale section meets or exceeds the **Final Weight Threshold setting**.
- If configured to print a ticket, system will automatically print the ticket.
 - Continuous feed type printer (tape or form style) is recommended for Automatic mode applications.
- Uses the **GTN** ticket printing format.
 - Axle weights are *not* Legal-for-Trade.
 - The Final Gross Weight **IS Legal-for-Trade**.

Follow these steps when weighing vehicles using the **Basic Axle Weighing**

Automatic Mode, Full Length Platform.

While the scale platform is empty, the traffic light should be **green**.

1. A Vehicle enters the scale.
 - Once the first axle is on the scale, the traffic light changes to **red** as an indication for the driver to position this axle and stop.
2. The weight stabilizes and is automatically captured by the Axlematic Application.
3. The traffic light will turn **green**, instructing the driver to proceed and position the next axle on the scale platform.
 - The traffic light will turn **red** while this process occurs.
4. **Steps 2** and **3** will be repeated until all the axles are captured.



2.4.2. Basic Axle Weighing Automatic Mode, Full Length Platform

5. Once the system no longer senses additional axles and the total timer has expired, the system will automatic totalize all the captured axle weights.
 - If enabled, the system will automatically generate a ticket.

2.4.3. Axle In / Axle Out Weighing Manual Mode, Full Length Platform

The **AXLE IN/ AXLE OUT APPLICATION** with the **FULL LENGTH PLATFORM** requires the vehicle to **AXLE IN** (Inbound weighment) and **AXLE OUT** (Outbound weighment).

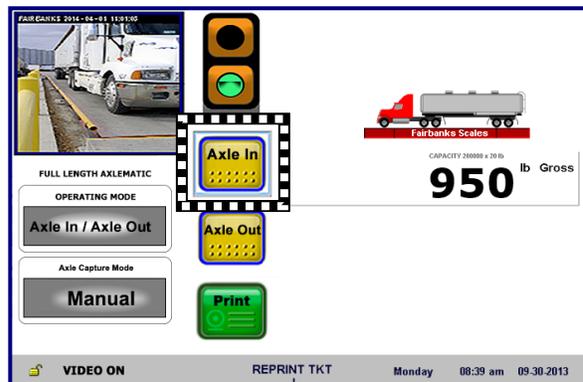
- **Manual Axle capture mode** requires a scale Operator to press the **CAPTURE** button to capture each axle weight. Once last axle is captured, the Operator presses the **FINISH** button.
- Generates a **GTN / Axle weight ticket** upon completion of the “Axle Out” weighment.
- This application uses the **Inbound ticket** and **Outbound ticket formats** for Axle weights and Outbound GTN information.
- Axle weights *are not* Legal-for-Trade.
- Final Gross weight **IS legal for trade**.

Follow these steps when using the Axle In / Axle Out Weighing, Manual Mode, Full Length Platform.

AXLE IN WEIGHMENT:

While the scale platform is empty, the display should display **00**.

1. If the display does not indicate this, press the **ZERO** button on the front panel keypad.
 - The traffic light should be **green**.
2. An **Inbound Vehicle** enters the scale.
3. Press the **AXLE IN** button to begin the weighment transaction.

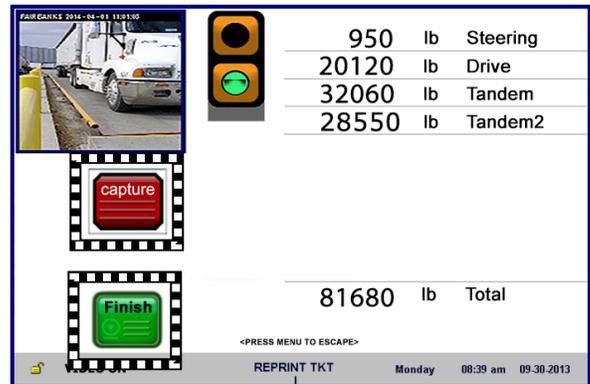


2.4.3. Axle In / Axle Out Weighing Manual Mode, Full Length Platform, Continued

4. The Operator will push the **CAPTURE** button.
5. The traffic light will change to **red** as an indication for the driver to position this axle and stop.
 - When motion ceases, the FB25XX will capture the axle weight.
6. The traffic light will turn **green**, signaling the driver to place the next axle onto the scale platform.



7. Once the axle is into place, the Operator will push the **CAPTURE** button.
 - The traffic light will change to **red**.
8. Repeat **Steps 4 and 5** until all the axles are captured.
9. Press the **FINISH** button to totalize all the captured axle weights.
- 10a. The FB25XX will proper for a Loop ID
 - Either press the **ENTER** button to use a system generated Loop ID



OR...

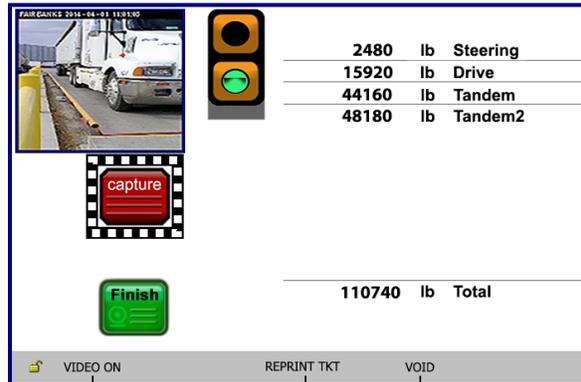
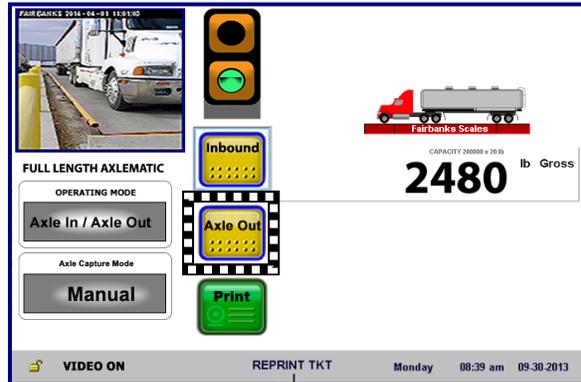
- 10b. Enter a known **LOOP ID**, then press **ENTER**.
 - The **PRINT**, **EDIT** and **CANCEL** buttons will appear once this is entered.
11. Press **PRINT** to complete this weighing.
 - If enabled, the system will automatically generate a ticket

2.4.3. Axle In / Axle Out Weighing Manual Mode, Full Length Platform, Continued

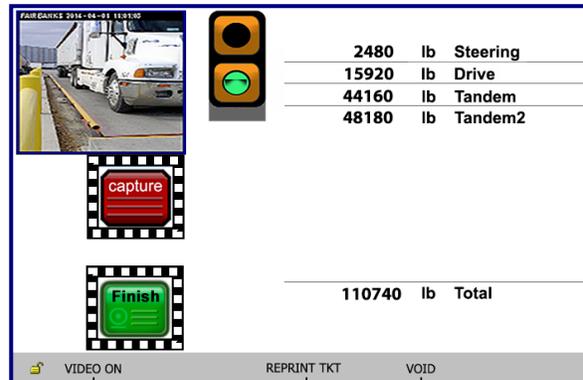
AXLE OUT WEIGHMENT

While the scale platform is empty, the display should display **00**.

1. If the display does not indicate this, press the **ZERO** button on the front panel keypad.
 - The traffic light should be **green**.
2. An **Outbound Vehicle** enters the scale.
3. Press the **AXLE OUT** button to begin the weighment transaction.
4. The Operator will push the **CAPTURE** button and the traffic light will change to **red** as an indication for the driver to position this axle and stop.
5. When motion ceases, the FB25XX will capture the axle weight.



6. The traffic light will turn **green**, signaling the driver to place the next axle onto the scale platform.
7. Once the axle is into place, the Operator will push the **CAPTURE** button and the traffic light will change to **red**.
8. Repeat **Steps 4 and 5** until all the axle are all captured.
9. Press the **FINISH** button to totalize all the captured axle weights.
 - The FB25XX will prompt for a Loop ID.



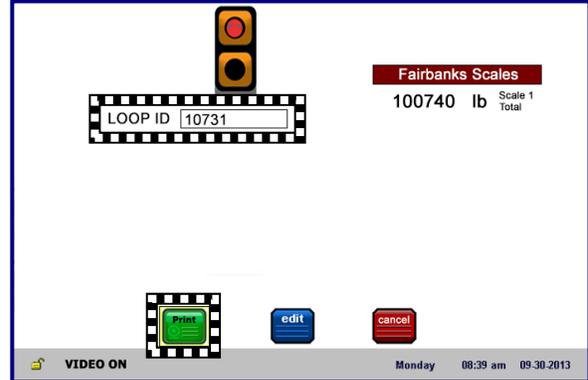
2.4.3. Axle In / Axle Out Weighing Manual Mode, Full Length Platform, Continued

10. Enter the **LOOP ID** from the **Inbound transaction**, then press **ENTER**.

- The **PRINT**, **EDIT** and **CANCEL** buttons will appear once this is entered.

11. Press **PRINT** to complete this weighing.

- If enabled, the system will automatically generate a ticket.



2.4.4. Axle In / Axle Out Weighing Automatic Mode, Full Length Platform

AUTOMATIC AXLE CAPTURE MODE *requires* a scale operator to select **AXLE IN** or **AXLE OUT** at after the final axle.

This also requires an Operator to enter the **LOOP ID**, any **Product IDs**, **Customer IDs** or other prompts are used in the Cycle of Operation.

- Vehicle is **required** to “**Axle In**” (Inbound Weighment) and “**Axle Out**” (Outbound Weighment).
- The system operates using configurable weight thresholds and software timers.
- A traffic light is **required** to signal the driver when to position each axle, and a Remote Display installation is **highly recommended**.
- The total weight is automatically calculated when system no longer senses additional axles and the total timer has expired.
- If configured to do so, the system automatically prints the ticket. A continuous feed printer (tape or form style) is recommended for **Automatic mode** applications.
- This application uses the **Inbound ticket** and **Outbound ticket** formats for Axle weights and Outbound GTN information.
- Axle weights *are NOT* Legal-for-Trade.
- Final Gross weight **IS** Legal-for-Trade.

2.4.4. Axle In / Axle Out Weighing Automatic Mode Full Length Platform, Continued

Follow these steps when using the Axle In / Axle Out Weighing, Automatic Mode, Full Length Platform Scale.

AXLE IN WEIGHMENT

While the scale platform is empty, the traffic light should be **green**.

1. The Inbound vehicle enters the scale platform.

2. The traffic light will change to **red** as an indication for the driver to position this axle and stop.

- When motion ceases, the FB25XX will capture the axle weight.

3. The traffic light will turn **green**, signaling the driver to place the next axle onto the scale platform.

4. **Steps 2 and 3** will repeat until all the axles are captured.



5. Once the system no longer senses additional axles and the total timer has expired, the system will automatic totalize all the captured axle weights.

6. The FB25XX will now hold prompting the Operator to select either the **AXLE IN** or **AXLE OUT** button. Since this is an Axle IN weighment, **AXLE IN** should be selected.

- The FB25XX will prompt the Operator for a **Loop ID**

7a. Either press the **ENTER** button to use a system generated **Loop ID**,

OR...

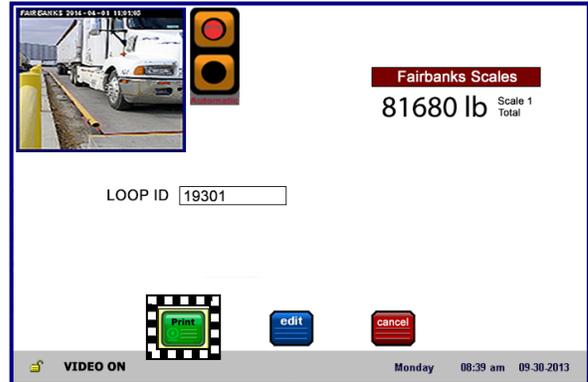
7b. Enter a known **LOOP ID**, then press **ENTER**.

- The **PRINT, EDIT** and **CANCEL** buttons will appear once this is entered.



2.4.4. Axle In / Axle Out Weighing Automatic Mode Full Length Platform, Continued

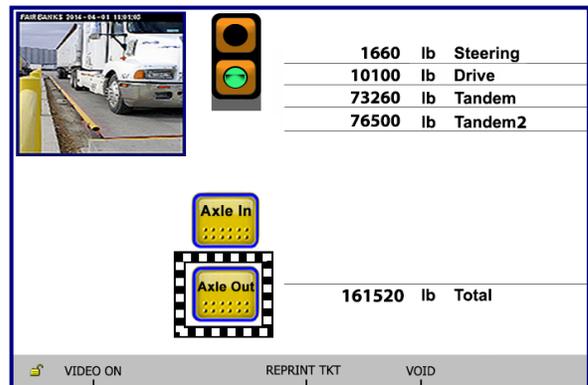
7. Press **PRINT** to complete this weighing.
 - If enabled, the system will automatically generate a ticket.



AXLE OUT WEIGHMENT:

While the scale platform is empty, the traffic light should be **green**.

1. The Inbound vehicle enters the scale platform.
2. The traffic light will change to **red** as an indication for the driver to position this axle and stop.
 - When motion ceases, the FB25XX will capture the axle weight.
3. The traffic light will turn **green**, signaling the driver to place the next axle onto the scale platform.
4. **Steps 2 and 3** will repeat until all the axles are captured.
5. Once the system no longer senses additional axles and the total timer has expired, the system will automatic totalize all the captured axle weights.
6. The FB25XX will now hold prompting the Operator to select either the **AXLE IN** or **AXLE OUT** button.

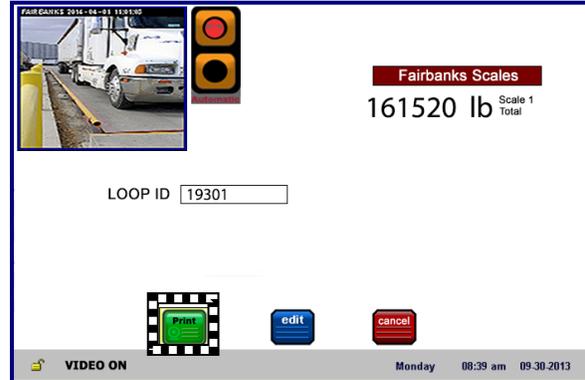


Since this is an Axle OUT weighing, **AXLE OUT** should be selected.

- The FB25XX will prompt the Operator for a Loop ID.
7. Enter the LOOP ID from the Inbound Transaction, then press **ENTER**.
 - The **PRINT**, **EDIT** and **CANCEL** buttons will appear once this is entered.

2.4.4. Axle In / Axle Out Weighing Automatic Mode Full Length Platform, Continued

8. Press **PRINT** to complete this weighment.
 - If enabled, the system will automatically generate a ticket.



2.4.5. Inbound / Axle Out Weighing Full Length Platform

The vehicle does a normal **Inbound weighment**, but must “**Axle**” onto the scale for the **Outbound weighment**.

- This generates a **GTN / Axle weight ticket** upon completion of the “**Axle Out**” weighment.
 - Requires proper Inbound ticket format for Inbound information.
 - Requires proper Outbound ticket format for Axle weights and Outbound GTN information.
- This allows for axle weighing in either a Manual or Automatic Axle capture mode.
- **MANUAL MODE** requires a scale Operator to press the **INBOUND** button to create an **INBOUND transaction**.
- This also requires an Operator to press the **CAPTURE** button to capture each axle weight on the **Outbound weighment**. Once last axle is captured, the Operator presses the **FINISH** button.
- **AUTOMATIC MODE** – When in Automatic mode, the system defaults to a specific directional weighing to determine if the transaction is an Inbound transaction or an Axle Out transaction. Automatic mode only functions with fully electronic scales equipped with Intalogix technology.

VERY IMPORTANT NOTE: Operating in this mode is based on **DIRECTION OF THE TRAFFIC FLOW**.

2.4.5. *Inbound / Axle Out Weighing Full Length Platform*

INBOUND WEIGHMENTS

- **Inbound traffic** must enter the scale from **SECTION 1**.
- When weight appears on section one first and after the final weight threshold setting has been reached on the last section in the scale, the FB25XX will default to process an Inbound Transaction.
- The FB25XX will halt, waiting for the Operator to enter a **Loop ID / Truck ID**.

AXLE OUT WEIGHMENTS

- Axle Out traffic must enter the scale platform from the last section of the scale.
- When weight appears on the last section of the scale first and breaches the threshold setting, the FB25XX will start the Axle Out process.
- After the last axle weight has been captured, the FB25XX will halt waiting for someone to enter a Loop ID / Truck ID to complete the transaction.
 - The system will automatically begin a weighing process once the initial threshold weight has been breached.
 - This requires a scale Operator to press either **INBOUND** or **“AXLE OUT”** once the process has begun.
 - The system must be “told” if the transaction is an Inbound or “Axle Out” transaction.
- **Loop ID / Truck ID** must be manually entered.
- System operates using configurable weight thresholds and software timers.
- Traffic direction setting is determined by the setting in the **Traffic Control Menu**.
- A traffic light is required to signal the driver when to position the each axle.
- Remote Display is highly recommended.
- In **AUTOMATIC mode**, the Total weight is automatically calculated when system no longer senses additional axles and the total timer has expired.
- Uses the **Inbound** and **Outbound ticket format** to print tickets.

2.4.5. Inbound / Axle Out Weighing Full Length Platform, Continued

Follow these steps when using the **Inbound / Axle Out Weighing Mode** on a **Full length Platform**.

INBOUND TRANSACTION

While the scale platform is empty, the display should show **00**.

1. If the display does not indicate this, press the **ZERO** button.

- The traffic light should be **green**.

2. A Vehicle enters the scale from **SECTION 1**.

- The traffic light changes to **red**.

3. The Operator presses the **INBOUND** button.

- The FB25XX will prompt the Operator for a **Loop ID**.

4a. Either press the **ENTER** button to use a system generated Loop ID

OR...

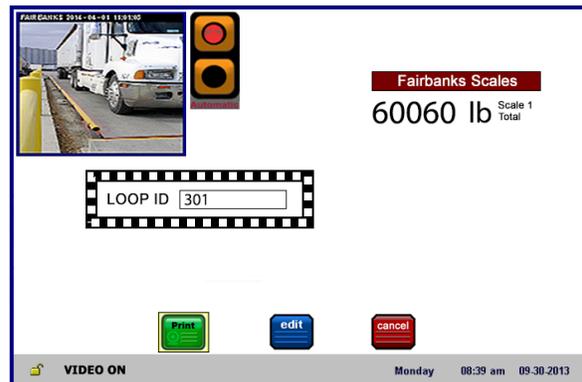
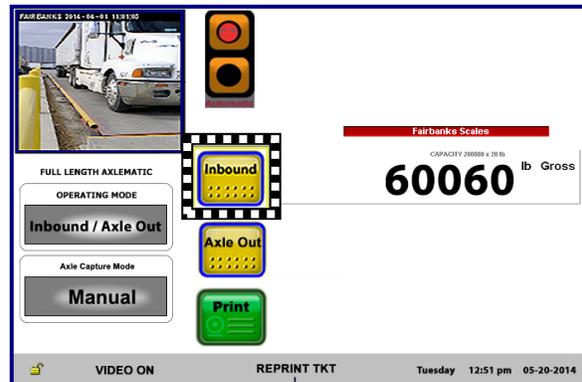
4b. Enter a known **LOOP ID**, then press **ENTER**.

- The **PRINT**, **EDIT** and **CANCEL** buttons will appear once this is entered.

5. Press **PRINT** to complete this weighing.

- If enabled, the system will automatically generate a ticket.
- The Traffic Light will change to green.

6. Vehicle exits the scale.

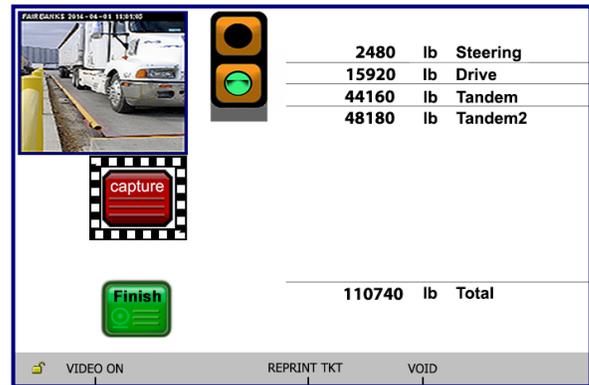


2.4.5. Inbound / Axle Out Weighing Full Length Platform, Continued

AXLE OUT (OUTBOUND) TRANSACTION

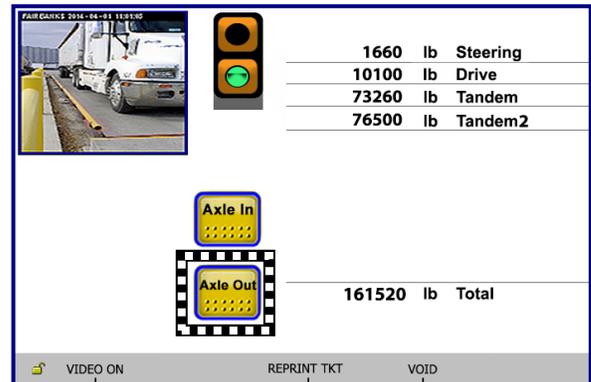
While the scale platform is empty, the display should show **00**.

1. If the display does not indicate this, press the **ZERO** button.
 - The traffic light should be **green**.
2. A Vehicle enters the scale from the **LAST SECTION**.
 - The traffic light changes to **red**.
3. The driver positions the first axle on the scale.
4. The Operator will push the **CAPTURE** button.



5. The traffic light will change to **red** as an indication for the driver to position this axle and stop.
 - When motion ceases, the FB25XX will capture the axle weight.
6. The traffic light will turn **green**, signaling the driver to place the next axle onto the scale platform.
7. Once the axle is into place, the Operator will push the **CAPTURE** button and the traffic light will change to **red**.

8. Repeat **Steps 4 and 5** until all the axle are all captured.
9. Press the **AXLE OUT** button to totalize all the captured axle weights.

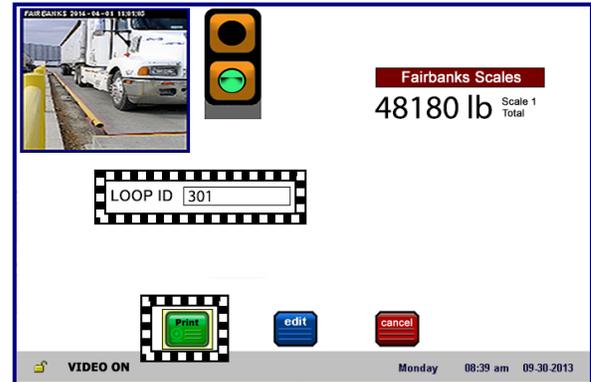


- The FB25XX will prompt for a **Loop ID**.
10. Enter the **LOOP ID**, from the **Inbound Transaction** and press **ENTER**.

- The **PRINT**, **EDIT** and **CANCEL** buttons will appear once this is entered.

2.4.5. Inbound / Axle Out Weighing Full Length Platform, Continued

11. Press **PRINT** to complete this weighment.
- If enabled, the system will automatically generate a ticket.



2.4.6. Inbound / Outbound Weighing Full Length Platform

INBOUND / OUTBOUND MODE weighs an **INBOUND** vehicle, either full or empty.

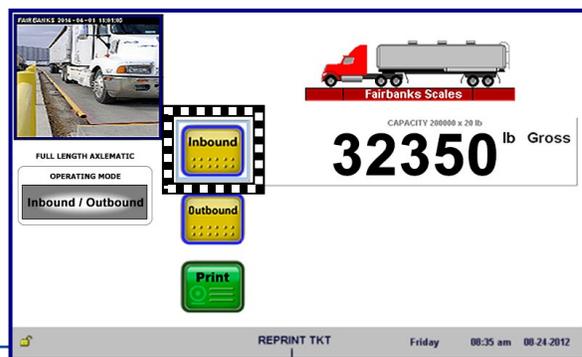
- After processing, the same **OUTBOUND** vehicle weighs again, full or empty. A ticket prints these two weights.

Follow these steps when using the **Inbound / Outbound Mode, Full Length Platform.**

INBOUND WEIGHMENT

While the scale platform is empty, the display should show **00**.

1. If the display does not indicate this, press the **ZERO** button.
 - The traffic light should be **green**.
2. The vehicle enters the scale platform.
 - The light turns **red**.
3. The Operator presses the **INBOUND** button.



- The FB25XX will prompt for a **Loop ID**

2.4.6. *Inbound / Outbound Weighing Full Length Platform, Continued*

4a. Either press the **ENTER** button to use a system generated Loop ID

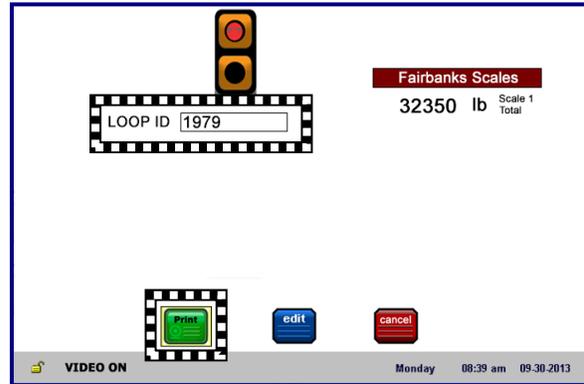
OR...

4b. Enter a known **LOOP ID**, then press **ENTER**.

- The **PRINT**, **EDIT** and **CANCEL** buttons will appear once this is entered.

5. Press **PRINT** to complete this weighment.

- If enabled, the system will automatically generate a ticket.
- The traffic light will turn **green**.



OUTBOUND WEIGHMENT:

While the scale platform is empty, the display should show **00**.

1. If the display does not indicate this, press the **ZERO** button.

- The traffic light should be **green**.

2. The returning vehicle enters the scale platform.

- The light turns **red**.

3. The Operator presses the **OUTBOUND** button.

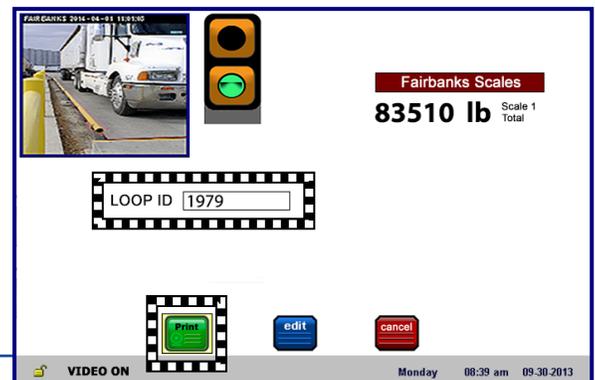
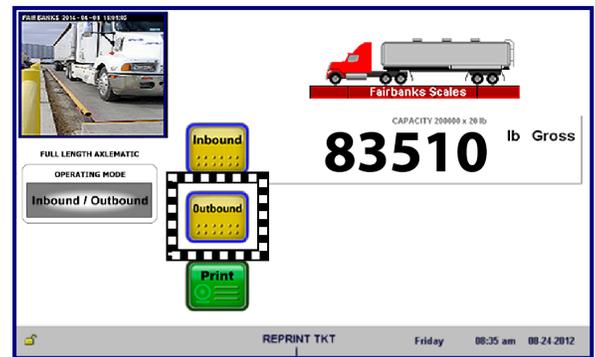
- The FB25XX will prompt for a **Loop ID**.

4. Enter the **LOOP ID**, from the Inbound transaction and press **ENTER**.

- The **PRINT**, **EDIT** and **CANCEL** buttons will appear once this is entered.

5. Press **PRINT** to complete this weighment.

- If enabled, the system will automatically generate a ticket.



- The traffic light will turn green.

2.5. Proper Shutdown Procedure



- When there is no weight on the scale, the **POWER OFF (F5)** notification displays.
- Whenever there is weight on the scale, the **F5** button is still active, but the legend is hidden.
- A **Shut Off Warning** appears whenever **F5** is pushed and there is weight on the scale.
- The **POWER OFF (F5)** is inactive during any programming activities.

Follow these steps to properly shutdown the FB25XX Instrument.

1. While in the Weigh Screen and with nothing on the scale platform, press the **F5** key.
 - A **Shut Off Warning** appears.
2. Press **ENTER**, or touch the **YES**.
3. After proper shut-down is complete, **ALWAYS UNPLUG THE INSTRUMENT** from AC power.
 - Until the FB25XX is unplugged from AC power, it will continue to supply operating voltage to the instrument circuits.
4. Plug back in the Instrument to reboot it.



SECTION 3: PROGRAMMING

3.1. User Levels

There are three (3) user levels for the FB25XX Axlematic Instrument

- ✓ **Standard Operator**
- ✓ **Write Customer Level User**
- ✓ **Reports User**

STANDARD OPERATOR

- ✓ **No password is required.**

Allows access to these menu options.

- HOME
- AUDIT TRAIL
- OPERATOR MENU
- RETURN TO WEIGHING

WRITE CUSTOMER LEVEL (SUPERVISOR) USER

- ✓ **Default Password is “1”.**

*Allows access to the **Standard Operator** privileges, plus the **CONFIGURATOIN MENU** options.*

REPORTS LOGIN – Password is **eight (8) characters**, configured at the onsite FB25XX Instrument.

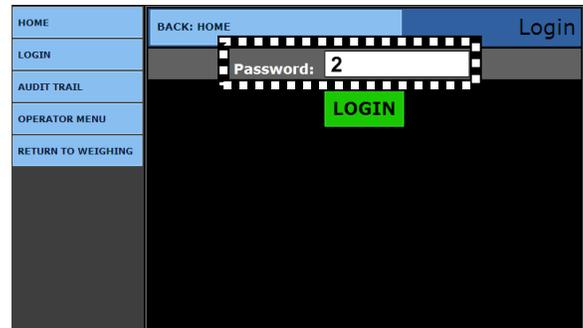
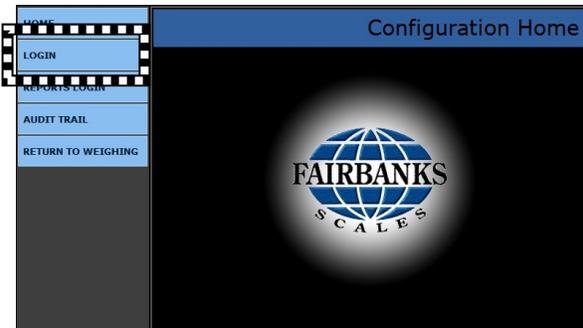
*Used for programming and printing reports **from a remote location**, using a Web Browser and a Remote Password.*

3.2. Login

Follow these steps to **LOGIN**.

1. While in the **WEIGHT SCREEN**, press the **MENU** button on the external keyboard to open the **Configuration Home Page**.
2. Select **LOGIN**.
3. Enter the **Write Customer**.
4. Press the **LOGIN** button.

✓ **WRITE CUSTOMER PASSWORD = 1**



These are **first-time-use-only passwords**.

- Change the passwords to ones which are office-related, and use **both alpha and numeric characters**.
- Store the password(s) in a safe place **known by more than one manager**.
- It is recommended to change passwords **at least once a year**.
- Passwords are normally case-sensitive.
- The **REMOTE PASSWORD** is *eight (8) characters*.
 - Configure these with the **WRITE REMOTE CUSTOMER PASSWORD** in the **Configuration Menu**,

IMPORTANT NOTE: An **External Keyboard Accessory (31036 or 25498)** is necessary for inputting tares, editing customers and products, and entering alphabetic text.

3.3.Changing Passwords

Noted below are suggestions for setting the **first-time-use passwords**.

- Passwords should be changed right after installation, and then stored in a safe place.
- Password characters are case-sensitive.
- Whenever possible, the password should use both alpha and numeric characters.
- These passwords should be known by more than one manager.
- It is recommended to change these passwords at least once a year.
- **REMOTE PASSWORDS** use *eight (8) characters*.

3.3.1. Write Customer Password

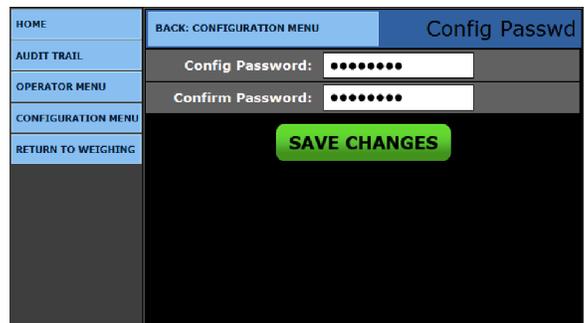
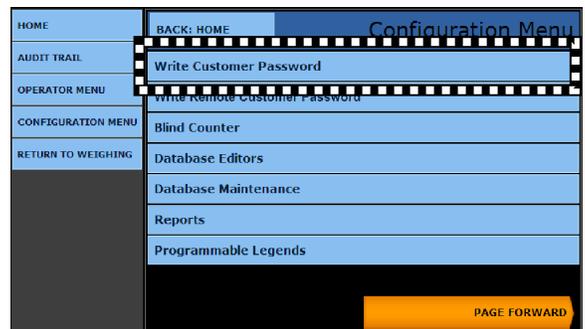
The **Write Customer Password** allows full-access to the **CONFIGURATION MENU** and all the lesser menus *when the supervisor is programming from a remote location*.

- The password can be any length
- This password is case-sensitive.

Follow these steps to change the **WRITE CUSTOMER PASSWORD**.

1. While in the **WEIGHT SCREEN**, press the **MENU** button on the external keyboard to open the **Configuration Home Page**.
2. Press **LOGIN**.
3. Enter the Write Customer Password.
4. Press the **LOGIN** button.
5. Open the **CONFIGURATION MENU**.
6. Select **WRITE CUSTOMER PASSWORD**.
7. Enter the **new password** in the **CONFIG PASSWORD** field, and again in the **CONFIRM PASSWORD** field.

- Press the **SAVE CHANGES** button.



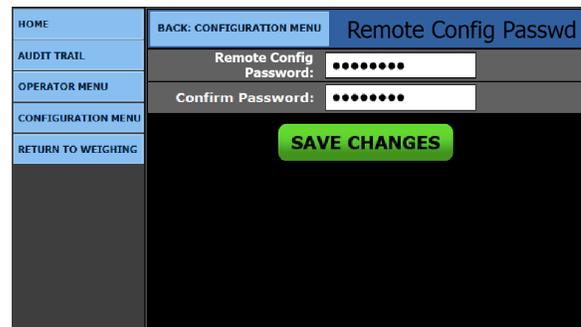
3.3.2. Write Remote Customer Password

The **REMOTE CUSTOMER PASSWORD** must be programmed on the Instrument before it can be accessed with a web browser. The supervisor can then program the Instrument from **any remote location** using a pc or laptop.

- The password is **case sensitive**.
- Must be eight (8) characters.

Follow these steps to change the **WRITE REMOTE CUSTOMER PASSWORD**.

1. While in the WEIGHT SCREEN, press the **MENU** button to open the Configuration Home Page.
 2. Press **LOGIN**.
 3. Enter the Write Customer.
 4. Press the **LOGIN** button.
 5. Open the **CONFIGURATION MENU**.
 6. Select **WRITE REMOTE CUSTOMER PASSWORD**.
 7. Enter an eight (8) character password in the **REMOTE CONFIG PASSWORD** field.
 8. Reenter it in the **CONFIRM PASSWORD** field.
- Press the **SAVE CHANGES** button.



3.4. Programming Menus

While in the **Weigh** screen, press the **HOME** button on the *external keyboard* or the **MENU** button on the *front panel keypad*, to access the **CONFIGURATION HOME** window.



HOME	Returns the user to the Configuration Home Page .
AUDIT TRAIL	Identifies how many times and when changes are made to the scale's Calibration or Configuration settings.
OPERATOR MENU	User access for Time/Date , Ticket Number , Load Cell Diagnostics , and Keyboard Tare entries.
CONFIGURATION MENU	This menu accesses communications programming and functions, ticket formats, programmable legends and prompts, camera inputs and weight threshold.
RETURN TO WEIGHING	Returns the Instrument to the Weight Display Screen .

IMPORTANT NOTE: *An External Keyboard Accessory (31036 or 25498) is recommended for inputting tares, editing customers and products, and entering alphabetic text.*

3.5. Programming Shortcut Keys

Noted below are the shortcut programming keys with their functions. Use the external keyboard to access these specialized windows.

- The **Weigh Screen** must first be displayed before any will open.

KEYS	FUNCTION(S)
HOME	Opens the CONFIGURATION HOME MENU .
CTRL + Shift + C	Opens the TOUCH SCREEN CALIBRATION .
CTRL + Shift + H	Displays the SYSTEM INFORMATION .
CTRL + ALT + Shift + R	Opens the DATABASE RECOVERY MENU . <ul style="list-style-type: none"> – Included are <i>Reboot Instrument</i>, <i>Attempt Recovery</i>, and <i>Restore to Factory Settings</i> buttons.
CTRL + Shift + S	Displays all the installed EXPANSION MODULES . <ul style="list-style-type: none"> – Included are <i>Check for Updates</i> and <i>Rescan</i> buttons.
F5	Initiates the SYSTEM SHUTDOWN . <ul style="list-style-type: none"> • See Section 2.5. Proper Shutdown Procedure for complete instructions.

IMPORTANT NOTE: While in the **Weigh Screen**, press **HOME** on the external keyboard to access the **CONFIGURATION HOME** menu.

C A U T I O N !

FB25XX Instrument must be shut down properly!

Failure to shut down properly can result in scrambling essential software files necessary for proper operation, and lead to the replacement of the 8Gb Flash Drive.

ALWAYS press the **F5** key to start the shutdown process.

NEVER unplug the FB25XX to reboot it!

See [2.5. Proper Shutdown Procedure](#) for complete details.

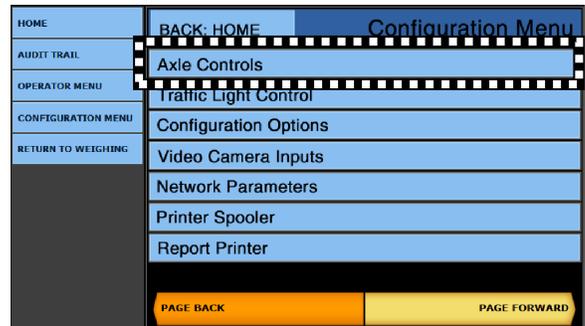
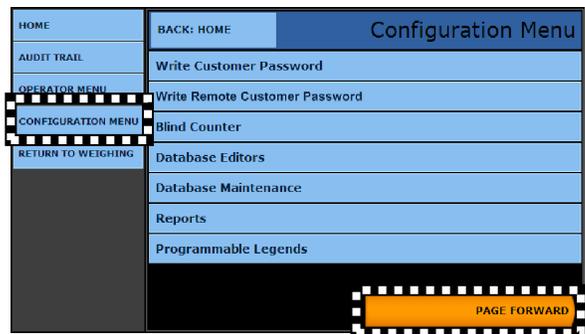
SECTION 4: CONFIGURATION MENU

The Configuration Menu accesses communications programming and functions, ticket formats, programmable legends and prompts, camera inputs and weight threshold.

IMPORTANT NOTE: *This is a supplemental document, and only highlights the specific variations in the Axlematic Application.*

4.1. Axle Control Menu

1. While in the **WEIGH SCREEN**, press the **MENU** button.
 2. Select **LOGIN**.
 3. Enter the **Configuration Password**.
 4. Press the **LOGIN** button.
 - The menu selection will change.
 5. Open the **CONFIGURATION MENU**.
 6. Press **PAGE FORWARD** *twice*.
 7. Select **AXLE CONTROLS**.
 8. Adjust the parameters of the **Axle Controls** according to the specific needs of the scale platform.
 - Noted below are the standard factory defaults.
- ✓ **Initial Weight = 800 lbs.**
 - ✓ **Minimum Weight = 500 lbs.**
 - ✓ **Final Weight = 800 lbs.**
 - ✓ **Axle Time = 1 sec.**
 - ✓ **Total Timer = 6 sec.**

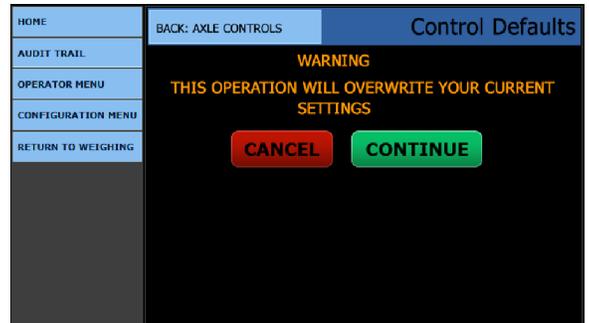


4.1.1 Control Defaults

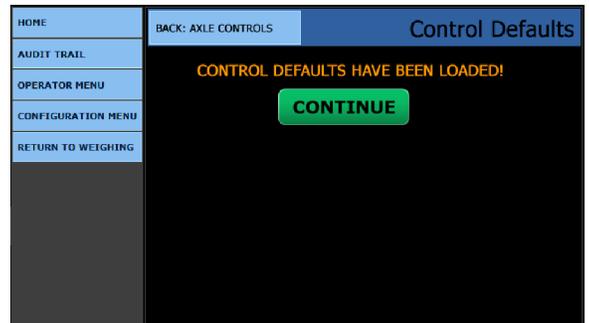
1. While in the **Axle Controls Menu**, press the **CONTROL DEFAULTS** button.
 - This resets all the settings to their standard factory default levels.



2. To proceed, press **CONTINUE**.



3. To finalize the process, press **CONTINUE**.

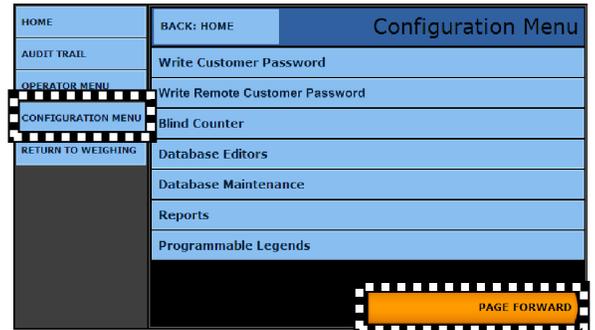


4.2. Remote Switches

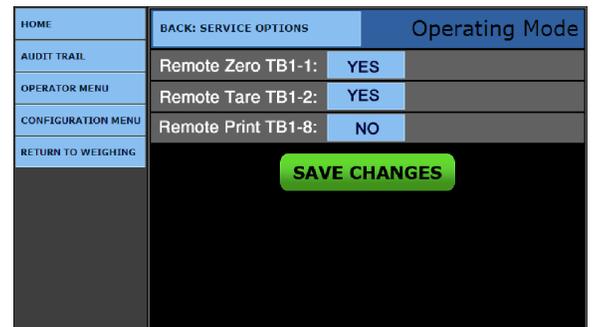
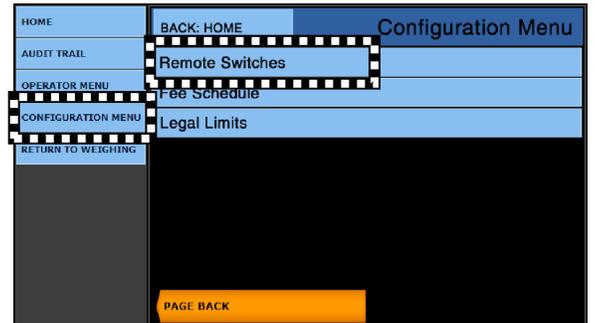
This option allows three (3) external **Remote Switches** to initiate these functions.

- **ZERO** the indicator
- Initiate a **TARE**.
- **PRINT** a ticket.

1. While in the **WEIGH SCREEN**, press the **MENU** button.
2. Select **LOGIN**.
3. Enter the **Configuration Password**.
4. Press the **LOGIN** button.
 - The menu selection will change.
5. Open the **CONFIGURATION MENU**.
6. Press **PAGE FORWARD** *three times*.



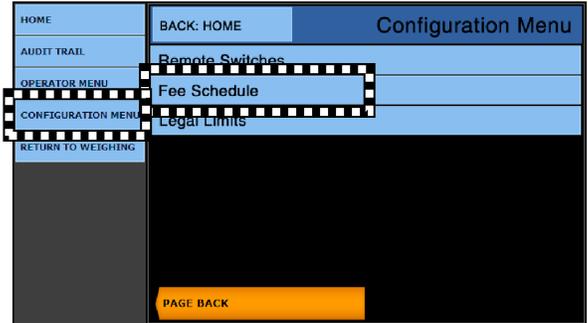
7. For each **REMOTE SWITCH**, adjust the setting to **YES** or **NO**, as needed for the site.



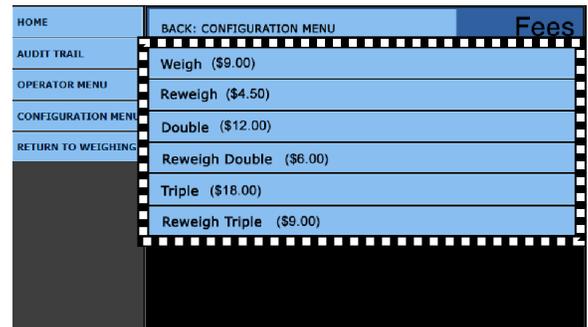
4.3. Fee Schedule

The **FEE SCHEDULE** sets the dollar amounts for each weightment.

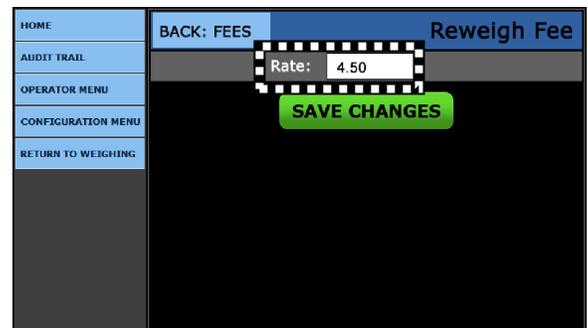
1. While in the **WEIGH SCREEN**, press the **MENU** button.
2. Select **LOGIN**.
3. Enter the **Configuration Password**.
4. Press the **LOGIN** button.
 - o The menu selection will change.
5. Open the **CONFIGURATION MENU**.
6. Press **PAGE FORWARD** three times.
7. Select **FEE SCHEDULE**.



8. Compare and adjust these figures with the customer's designated amounts.



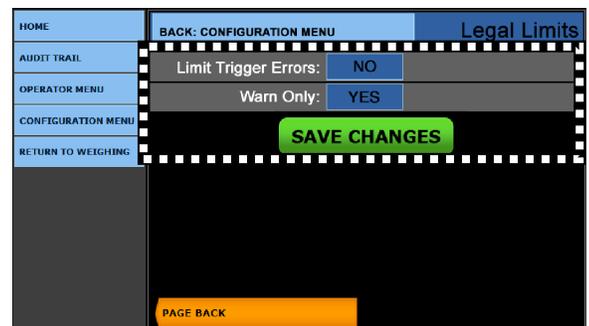
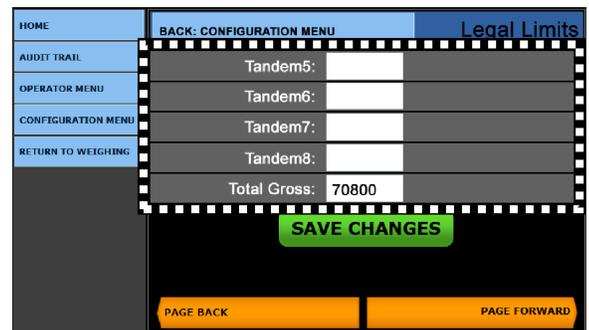
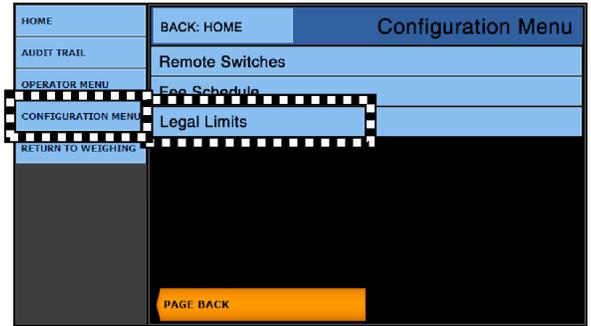
9. Press **SAVE CHANGES**.



4.4. Legal Limits

LEGAL LIMITS sets the maximum weight and time amounts for each weighment, then displays the total, limits the errors, and specifies the action if these boundaries are surpassed.

1. While in the **WEIGH SCREEN**, press the **MENU** button.
2. Select **LOGIN**.
3. Enter the **Configuration Password**.
4. Press the **LOGIN** button.
 - o The menu selection will change.
5. Open the **CONFIGURATION MENU**.
6. Press **PAGE FORWARD** three times.
7. Select **LEGAL LIMITS**.
8. From the customer's standard specifications, compare and adjust the weighment figures with the customer's designated amounts.
9. For the **LIMIT TRIGGER ERRORS** option, select **YES** or **NO**, as needed for the site.
 - If **YES** is selected, the **Limits** are enabled.
 - If **NO**, the **Limits** are ignored.
10. For the **WARN ONLY** option, select **YES** or **NO**, as needed for the site.
 - If **YES** is selected, a **LIMIT EXCEEDED** warning is displayed. The transaction is allowed to continue.
 - If **NO** is selected, a **LIMIT EXCEEDED** warning is displayed. The transaction is terminated, forcing the driver to exit the scale and adjust the load.

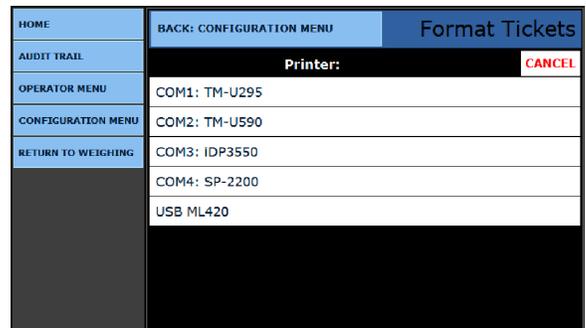
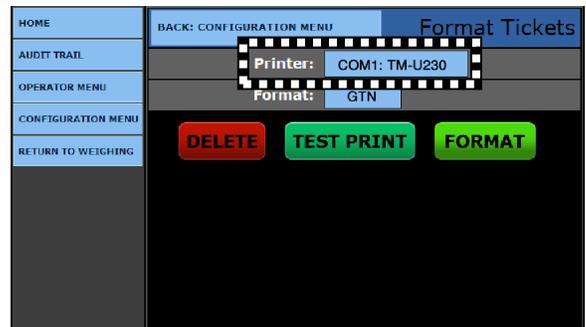
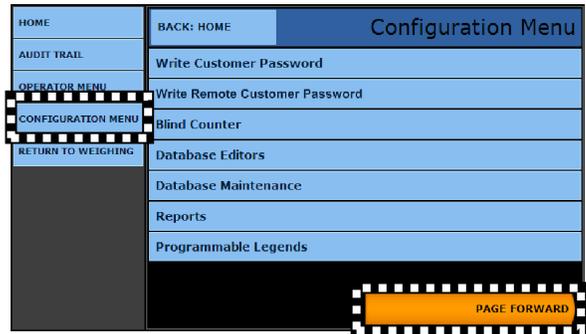


SECTION 5: TICKET FORMATTING

5.1. Format Tickets

Follow these steps to format the ticket parameters.

- Each printer requires its specific programming.
1. While in the **WEIGH SCREEN**, press the **MENU** button on the keypad.
 2. Select **LOGIN**.
 3. Enter the **Write Customer Password**.
 4. Press the **LOGIN** button.
 5. Select the **CONFIGURATION MENU**.
 6. Press **PAGE FORWARD**.
 7. Select **FORMAT TICKETS**.
 8. Press the **PRINTER** button.
 9. Select the correct **printer**.

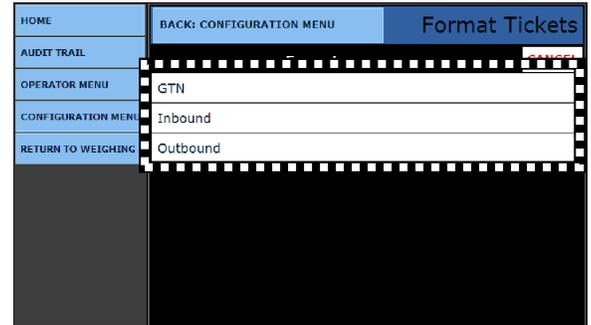


NOTE: If the right printer is not listed, the COM Port may not be configured for it.

- Printers are configured for either a **USB** or **Serial** output, each with different formatting options.
 - To configure the correct printer and have it appear within this window, change this option in the **PRINTER SPOOLER**.
-

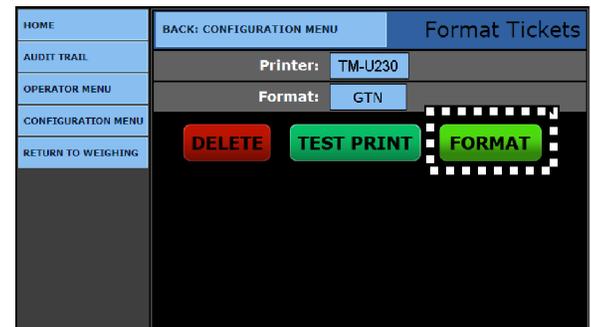
5.1. Format Tickets, Continued

10. Select the correct **Operating Mode**.
11. Press the **FORMAT** button to access the format item menu.
12. The **Format Tickets** menu has **nineteen (19) windows** of configurable data windows for each printers ticket format.
13. Set the **Ticket Length** and **Ticket Width**.



NOTE: *Printing capabilities may vary based on limitations of the printer type.*

Formatting all the parameter windows determines how the ticket prints.



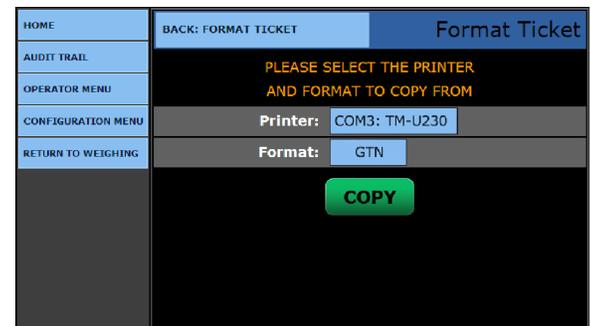
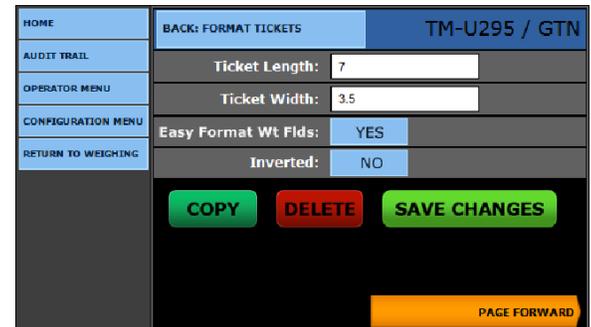
EASY FORMAT WT FLDS combines the **Weight, Unit** of measure, and **Legend** data fields, so they automatically group together as one field on the ticket.

- Using this option saves the time of manually moving these three data fields individually, and then configuring their placement on the ticket.

✓ **Default = YES**

INVERTED feature prints the ticket from the bottom first, up to the top.

14. Press the **PAGE FORWARD** button to advance to the next page of ticket options.
15. Press the **SAVE CHANGES** button, or they will be lost.
16. Press the **COPY** button to save this ticket format, then posts it to another printer's selected ticket format.



5.1. Format Tickets, Continued

The **DELETE** button function eliminates the ticket format.

- A prompt appears to confirm the operation.

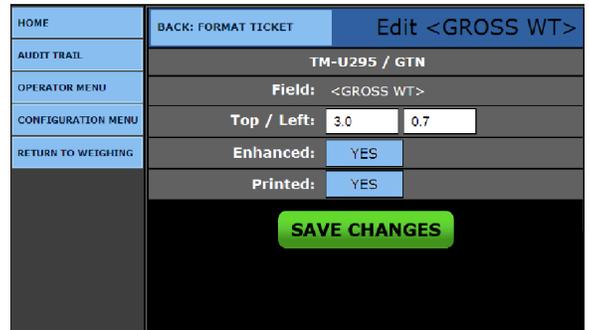
Described below are the three different types of **FIELD**: identifiers within the **FORMAT TICKET** windows.



DATA FIELD – Data which is emphasized within **greater than** and **less than symbols** is derived from the FB25XX and the vehicle which is being weighed.

Example: **<Gross WT>**

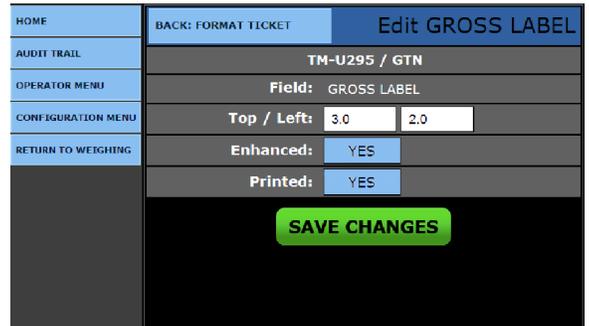
- This is the actual weight value which was weighed on the scale.



LABEL FIELD – Data which is **text only**, and describes the data field that it is beside.

Example: **GROSS LABEL**

- This label describes the label as a **GROSS** weight value.



TEXT FIELD – Custom **text** entered to provide required information on the ticket.

Example:
Driver: _____

- This gives driver a place to sign a ticket.



5.1. Format Tickets, Continued

TOP / LEFT: Plots the **x-y** coordinates of where the fields are located.

- **TOP** field moves the data field in an **up and down** position.
 - *This value is incremented in **tenths (0.1) of an inch.***
- **LEFT** field moves the data field in a left to right direction.
 - *This value is incremented in **tenths (0.1) of an inch.***

HOME	BACK: FORMAT TICKET	Edit <GROSS WT>
AUDIT TRAIL	TM-U295 / GTN	
OPERATOR MENU	Field: <GROSS WT>	
CONFIGURATION MENU	Top / Left:	3.0 0.7
RETURN TO WEIGHING	Enhanced:	YES
	Printed:	YES
SAVE CHANGES		

- In the **ENHANCED FIELD**, select **YES** to **enable** emphasized print, or **NO** to **disable** it.
- In the **PRINTED** field, select **YES** to **enable** printing the data item, or **NO** to **disable** it.
- Press the **SAVE CHANGES** button, or they will be lost.
- Selecting **BACK: FORMAT TICKET** returns to the previous menu.

APPENDIX I: TICKET DATA FIELDS

SCALE TICKET: TICKET NUMBER	Twenty-four (24) characters
<TICKET NO>: <Ticket#>	Six (6) characters
GROSS LABEL: GROSS	Five (5) characters
<GROSS WT>: <Gross>	Six (6) characters
<GROSS UNITS>:<GROSS UNITS>	Two (2) characters
DUAL UNITS GROSS LABEL:GROSS	
<DUAL UNITS GROSS WT>: <Dual Units Gross>	
<DUAL UNITS GROSS UNITS>: <DUALUNITSGROSSUNITS>	
TARE LABEL: TARE	Four (4) characters
<TARE WT>: <Tare>	Six (6) Characters
<TARE UNITS>: <TAREUNITS>	Two (2) characters
DUAL UNITS TARE LABEL: TARE	
DUAL UNITS TARE WT>: <Dual Units Tare>	
<DUAL UNITS TARE UNITS>: <DUALUNITSTAREUNITS>	
NET LABEL: NET	Three (3) characters
<NET WT>: <Net>	Six (6) characters
<NET UNITS>:<NETUNITS>	Two (2) characters
DUAL UNITS NET LABEL: NET	
<DUAL UNITS NET WT>: <Dual Units Net>	
<DUAL UNITS NET UNITS>: <DUALUNITSNETUNITS>	
INBOUND LABEL: INBOUND	Seven (7) characters
<INBOUND WT>: <Inbound>	Six (6) characters
<INBOUND UNITS>:<INBOUNDUNITS>	Six (6) characters
<DUAL UNITS INBOUND WT>: < DUAL UNITSINBOUNDWT>	
<DUAL UNITS GROSS UNITS>: <DUALUNITSGROSSUNITS>	
<DATE>: <Date>	Ten (10) characters
AXLE 1 LABEL: Steering	
AXLE 2 LABEL: Drive	
AXLE 3 LABEL: Tandem	
AXLE 4 LABEL: Tandem2	
AXLE 5 LABEL: Tandem3	
AXLE 6 LABEL: Tandem4	
AXLE 7 LABEL: Tandem5	
AXLE 8 LABEL: Tandem6	
AXLE 9 LABEL: Tandem7	
AXLE 10 LABEL: Tandem8	



Appendix I: TICKET DATA FIELDS, Continued

<AXLE 1 WT>: <Axle 1> (AXLE 1 thru 10)	
<AXLE 1 UNITS>:<Axle 1 Units> (AXLE 1 thru 10)	
DUAL UNITS AXLE 1 LABEL: Steering (AXLE 1 thru 10)	
<DUAL UNITS AXLE 1 WT>:<Dual Units Axle 1> (AXLE 1 thru 10)	
<DUAL UNITS AXLE 1 UNITS>:<Dual Units Axle 1 Un> (AXLE 1 thru 10)	
<AXLE 1 WT>: <Axle 1> (AXLE 1 thru 10)	
<DATE>:<Date>	
<TIME>: <Time>	Eight (8) characters
<SCALE ID>: <Scale ID>	Eleven (11) characters
<LOOP ID LABEL>: LOOP ID	Twenty (20) characters
<LOOP ID>: <Loop ID>	Sixteen (16) characters
<DATE IN>: <Date In>	Ten (10) characters
<TIME IN>: <Time In>	Eight (8) characters
<SCALE ID IN>: <Scale ID In>	Eleven (11) characters
PRODUCT LABEL: LABEL	Twenty-four (24) characters
<PRODUCT ID>: <Product ID>	Sixteen (16) characters
<CONVERSION LABEL>: Conversion Name	Sixteen (16) characters
<CONVERSION>: <Conversion>	Seven (7) characters
<CONVERSION 2 LABEL>: Conversion 2 Name	
<CONVERSION 2>: Conversion 2	
<PRODUCT TOTAL WT>: <Prod Tot Wt>	Six (6) characters
<PRODUCT TOTAL UNITS>: <Prod Tot Units>	Two (2) characters
<DUAL UNITS PROD TOT WT>: < Dual Units Prod Tot Wt>	
DUAL UNITS PROD TOT UNITS>: < Dual Units Prod Tot Un>	
CUSTOMER LABEL: CUSTOMER	Twenty-four (24) characters (caption is editable from ticket format)
<CUSTOMER ID>: <Customer ID>	Sixteen (16) characters
<CUSTOMER LINE 1/2/3/4>: <Customer Line 1/2/3/4>	Forty (40) characters
CUSTOMER TOTAL LABEL: CUSTOMER TOTAL	Twenty-four (24) characters (caption is editable from ticket format)
<CUSTOMER TOTAL WT>: <Cust Tot Wt>	Six (6) characters
<CUSTOMER TOTAL UNITS>: <Cust Tot Units>	Two (2) characters

Appendix I: TICKET DATA FIELDS, Continued

<DUAL UNITS CUST TOT WT>: <Dual Units Cust Tot Wt>	
<DUAL UNITS CUST TOT UNITS>: <Dual Units Cust Tot Un>	
<FEE>:<Fee>	
VEHICLE TYPE: VEHICLE TYPE	Twenty-four (24) characters (caption is editable from ticket format)
<VEHICLE DESCRIPTION>: <Vehicle Description>	Thirty-two (32) characters
<LOCATION ID>: <Location ID>	Fifteen (15) characters
<LOCATION NAME/ADDRESS/ CITY STATE/PHONE NMR>: <Location Name/Address/ City State/Phone Nbr>	Sixty-four (64) characters
<LOCATION PHONE NBR>: <Location Phone NBR>	Twenty (20) characters
<PROMPT1 LABEL thru PROMPT10 LABEL>: PROMPT 1 thru PROMPT 10	Twenty (20) characters
<PROMPT1 thru PROMPT10>: <Prompt 1 thru Prompt 10>	
ALL TEXT FIELDS	Twenty-four (24) characters
DUPLICATE COPY LABEL: (DUPLICATE COPY)	
TEXT 1: TEXT 1 thru TEXT 20: TEXT 20	
AXLE 1 CAMERA IMAGE: AXLE 1 CAMERA IMAGE	
GROSS TOT CAMERA 1 IMAGE: GROSS TOT CAMERA 1 IMAGE	
AXLE 2 CAMERA IMAGE: AXLE 2 CAMERA IMAGE	
GROSS TOT CAMERA 2 IMAGE: GROSS TOT CAMERA 2 IMAGE	

APPENDIX II: DATA OUTPUT

A. Remote Display Output

DATA FORMAT

<STX><A><0><SP/-><XXXXXX><ETX>

NOTES:

1. Characters denoted by X are characters 0-9.
 2. Leading zeroes are suppressed.
 3. Polarity indication for a positive value is a space (SP).
 - Negative values are not transmitted.
 4. Identifier code <4><0> = Gross weight.
 - Transmission is Gross Only.
 5. Transmission for the DEMAND Mode occurs when a carriage return (CR) HEX 0D is received.
-

B. Configure Output

FAIRBANKS DATA FORMAT

<STX><A><C><GGGGGG><TTTTTT><CR>

NOTES:

1. Characters denoted by G and T are characters 0-9.
 2. Leading zeroes are suppressed.
 3. Gross Weight Data = G
Tare Weight Data = T
-

STATUS CODE (WORD) A

Bit #	X00	X0	X	X.X	X.XX	X.XXX	X.XXXX	X.XXXXX
0	0	1	0	1	0	1	0	1
1	0	0	1	1	0	0	1	1
2	0	0	0	0	1	1	1	1

B. Configure Output, Continued

FAIRBANKS DATA FORMAT

INCREMENT SIZE

Bit #	Count By 1	Count by 2	Count by 5
3	1	0	1
4	0	1	1
5		Always Logic 1	
6		Always Logic 0	
7		Parity Bit	

STATUS CODE (WORD) B

Bit #	Description
0	Gross = 0 Net = 1
1	Positive = 0 Negative = 1
2	In Range = 0 Overcapacity = 1
3	No Motion = 0 Motion = 1
4	Lb = 0 Kg = 1
5	Always Logic 1
6	Normal = 0 Power Up = 1
7	Parity Bit

STATUS CODE (WORD) C

Bit #	Description
0	Always Logic = 0
1	Always Logic = 0
2	Always Logic = 0
3	Normal = 0 Print Switch Pushed = 1
4	Always Logic = 0
5	Always Logic = 0
6	Normal = 0 Keyboard Tare = 1
7	Parity Bit

B. Configure Output, Continued

TOLEDO DATA FORMAT

<STX><A><C><GGGGGG><TTTTTT><CR>

NOTES:

1. Characters denoted by G and T are Characters 0-9.
 2. Leading zeroes are not suppressed.
 3. Gross Weight data = G
Tare Weight data = T
-

STATUS CODE (WORD) A

Bit #	X00	X0	X	X.X	X.XX	X.XXX	X.XXXX	X.XXXXX
0	0	1	0	1	0	1	0	1
1	0	0	1	1	0	0	1	1
2	0	0	0	0	1	1	1	1

INCREMENT SIZE

Bit #	Count By 1	Count by 2	Count by 5
3	1	0	1
4	0	1	1
5		Always Logic 1	
6		Always Logic 0	
7		Parity Bit	

B. Configure Output, Continued

TOLEDO DATA FORMAT

STATUS CODE (WORD) B

Bit #	Description		
0	Gross = 0		Net = 1
1	Positive = 0		Negative = 1
2	In Range = 0		Overcapacity = 1
3	No Motion = 0		Motion = 1
4	Lb = 0		Kg = 1
5	Always Logic = 0		
6	Normal = 0		Power Up = 1
7	Parity Bit		

STATUS CODE (WORD) C

Bit #	Description		
0	Always Logic = 0		
1	Always Logic = 0		
2	Always Logic = 0		
3	Normal = 0		Print Switched Pushed = 1
4	Always Logic = 0		
5	Always Logic = 1		
6	Normal = 0		Keyboard Tare = 1
7	Parity Bit		

B. Configure Output, Continued

CARDINAL 738 CONTINUOUS SCOREBOARD DATA FORMAT

<CR><P><WWWWW,><m><SP><u><SP><g><SP><SP><ETX>

NOTES:

1. W = Displayed weight
P = Polarity
+ = Positive weight
- = Negative weight
U = Units
lb = pounds
kg = kilograms
S = Status
m = Motion
O = Overload
M = Mode
g = Gross
n = Net
OK = Space
 2. Leading zeros are not suppressed.
-

WEIGHTRONIX DATA FORMAT

< ><M><WWWWW>< ><u><CR><LF>

NOTES:

1. < > = Space
M = Mode
G = Gross
T = Tare
N = Net
W = Displayed weight
u = Units
 2. Leading zeros are suppressed.
-

B. Configure Output, Continued

CONDEC CONTINUOUS DATA FORMAT

<STX><SP><SP><WWWWW><U><G><M><CR><LF>

NOTES:

1. P = Polarity
space = positive weight
- = negative weight
W = Displayed weight
U = Units
L = pounds
K = kilograms
G = Gross; N = Net
M = Motion
S = Status
M = Mode
OK = Space
O = Overload
 2. Leading zeros are suppressed.
-

C. SMA Protocol

STANDARD SCALE RESPONSE MESSAGE

Most of the host commands are responded to in the following message format. The only host commands that do not are the:

Diagnostic, **AB**out and **IN**formation commands

<LF> <s> <r> <n> <m> <f> <xxxxxx.xxx> <uuu> <CR>

where:	<LF>	Start of response message
	<s>	scale status definition / example
		'Z' Center of Zero <xxxxxx.xxx>= 0.000
		'O' Over Capacity <xxxxxx.xxx>= +weight
		'U' Under Capacity <xxxxxx.xxx>= -weight
		'E' Zero Error (clears when condition clears)
		'I' Initial-Zero Error (if used, this error is
		maintained until zero condition is cleared)
		'T' Tare Error (clears after being read)
		<space> None of the above conditions
		<i>Note: For 'E', 'I', 'T' error conditions</i>
		<xxxxxx.xxx>= _____ (<i>center dashes</i>)
		and 'Z', 'O', 'U' are overridden.
	<r>	range ('1', '2', '3', etc.) always '1' for single range
	<n>	gross/net status
		'G' Gross normal weight
		'T' Tare weight (in response to 'M' command)
		'N' Net normal weight
		'g' gross weight in high-resolution
		'n' net weight in high-resolution
	<m>	motion status
		'M' scale in Motion
		<space> scale not in Motion
	<f>	future reserved for future or custom use
	<xxxxxx.xxx>	weight data this field is fixed at 10 characters
	<uuu>	Unit of Measure
	<CR>	End of response message



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821 Locust
Kansas City, Missouri 64106
www.fairbanks.com

FB25XX Series Instrument Axlematic Application

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