JAGMAX™

Application Software
User's Guide

(Only for Use in North America)

This manual describes the operation and functionality of the optional JAGMAX application software that is used in the JAGXTREME terminal.

CUSTOMER FEEDBACK

Your feedback is important to us! If you have a problem with this product or its documentation, or a suggestion on how we can serve you better, please fill out and send this form to us. Or, send your feedback via email to: quality_feedback.mtwt@mt.com. If you are in the United States, you can mail this postpaid form to the address on the reverse side or fax it to (614) 438-4355. If you are outside the United States, please apply the appropriate amount of postage before mailing.

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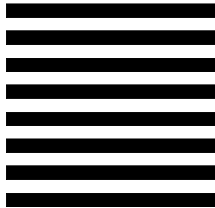
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Dichiarazione di conformità

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declare under our sole responsibility that the product,
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Model/Type: **Jaguar and JagXtreme**

to which this declaration relates is in conformity with the following standard(s) or other normative document(s).
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in combination with a weighing platform produced by Mettler-Toledo is in conformity with the following directives and standards.

Council directive on the harmonization of the laws of the Member states:	standards:
relating to non-automatic weighing instruments (90/384/EEC) amended by directive (93/68/EEC)	EN 45501
relating to electromagnetic compatibility (89/336/EEC) amended by directive (93/68/EEC; 92/31/EEC)	EN 55022-1
relating to electrical equipment designed for use within certain voltage limits (73/23/EEC amended by directive (93/68/EEC)	EN 60950

Worthington, Ohio USA,　　　May, 2000　　　　　　　　　　　　　Mettler-Toledo, Inc.

Darrell Flocken, Manager - Weights & Measures
Office of Weights and Measures

Original issue:　　　July, 1995
Revised:　　　　　October, 1996　　　added compliance to Low Voltage Directive
May, 2000added JagXtreme

PRECAUTIONS

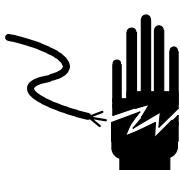READ this manual BEFORE operating or servicing the equipment using JAGMAX application software.
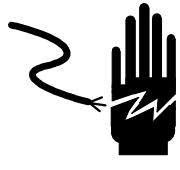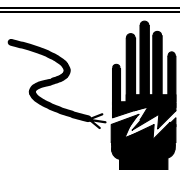
FOLLOW these instructions carefully.

SAVE this manual for future reference.

DO NOT allow untrained personnel to operate, clean, inspect, maintain, service, or tamper with this equipment.

ALWAYS DISCONNECT this equipment from the power source before cleaning or performing maintenance.

CALL METTLER TOLEDO for parts, information, and service.

⚠ WARNING

DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, SERVICING, CLEANING, OR REMOVING THE FUSE. FAILURE TO DO SO COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.

⚠ CAUTION

OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES.

⚠ WARNING

ONLY PERMIT QUALIFIED PERSONNEL TO SERVICE THIS EQUIPMENT. EXERCISE CARE WHEN MAKING CHECKS, TESTS AND ADJUSTMENTS THAT MUST BE MADE WITH POWER ON. FAILING TO OBSERVE THESE PRECAUTIONS CAN RESULT IN BODILY HARM.

⚠ WARNING

FOR CONTINUED PROTECTION AGAINST SHOCK HAZARD, CONNECT TO PROPERLY GROUNDED OUTLET ONLY. DO NOT REMOVE THE GROUND PRONG.

⚠ WARNING!

WHEN THIS EQUIPMENT IS INCLUDED AS A COMPONENT PART OF A SYSTEM, THE RESULTING DESIGN MUST BE REVIEWED BY QUALIFIED PERSONNEL WHO ARE FAMILIAR WITH THE CONSTRUCTION AND OEPRATION OF ALL COMPONENTS IN THE SYSTEM AND THE POTENTIAL HAZARDS INVOLVED. FAILURE TO OBSERVE THIS PRECAUTION COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.

⚠ WARNING!

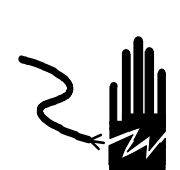IF THIS DEVICE IS USED IN AN AUTOMATIC OR MANUAL FILLING CYCLE, ALL USERS MUST PROVIDE A HARD-WIRED EMERGENCY STOP CIRCUIT OUTSIDE THE DEVICE CIRCUITRY. FAILURE TO OBSERVE THIS PRECAUTION COULD RESULT IN BODILY INJURY AND/OR PROPERTY DAMAGE.

⚠ WARNING

POWER OUTLETS MUST BE EASILY ACCESSIBLE AND LOCATED NO FURTHER THAN THE LENGTH OF THE POWER CORD SUPPLIED WITH THE PRODUCT. FAILURE TO DO SO COULD IN RESULT IN PERSONAL INJURY AND/OR PROPERTY.

CONTENTS

1

Introduction

This manual provides detailed information for using the JAGXTREME terminal's optional JAGMAX application software (available only in the U.S. and Canada). JAGMAX software enables the JAGXTREME terminal to be used as a truck scale controller. Information on installing, programming, and servicing it can be found in the JAGXTREME Terminal Installation Guide and the JAGXTREME Terminal Technical Manual

Note: JAGMAX software is created using METTLER TOLEDO's exclusive JAGBASIC customization tool.
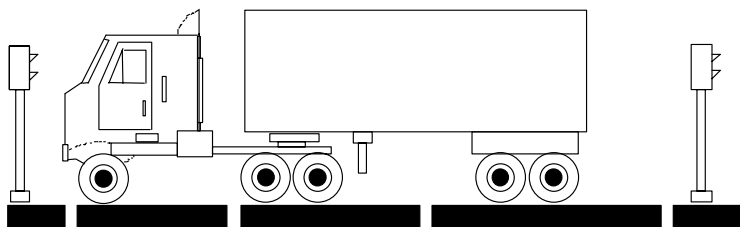
Review all instructions and safety precautions carefully before attempting to operate the JAGXTREME terminal! Installation and service procedures should be performed only by authorized personnel.

How to Use This Manual

Throughout this manual, the displays you will see on the terminal and the commands you will be asked to make are presented in the following ways:

- Information that appears on the lower display of the terminal is provided in brackets and in bold type.

  For example, **[Select Function]** means the words "Select Function" will appear on the lower display of the terminal. The words may be in all caps or in lowercase and uppercase letters, depending on how they actually appear on the displays.

- When you are instructed to press a specific key on the keyboard attached to the terminal, that key will be presented in bold type.

  For example, press **F1** means you should press **F1** on the attached keyboard. All tasks are performed using the keyboard. You will not use the keypad on the terminal.

Overview

Components

⚠ **WARNING**

NOT FOR USE IN HAZARDOUS AREAS.

Before using the JAGXTREME terminal and JAGMAX application software, you should first become familiar with the terminal's components and features.

Displays

The terminal features an upper and lower display. The upper display shows the weight on the scale. Arrows on this display point to labels below it that indicate whether the value is a Gross (G) or Net (NET) weight, if a present tare (PT) was taken, whether the weighing units are pounds (lbs) or kilograms (kg), if the weight is at center-of-zero ($\rightarrow 0 \leftarrow$), and if the weight is in motion ($\sim$).

The lower display shows various prompts and other information related to the tasks you are performing.
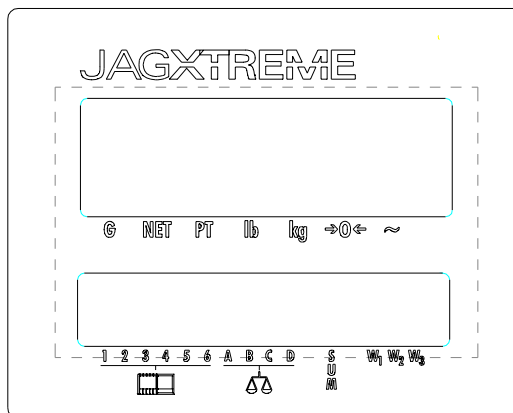
Keypad

The terminal also has a keypad. This is only used for programming the unit, not for normal operation.
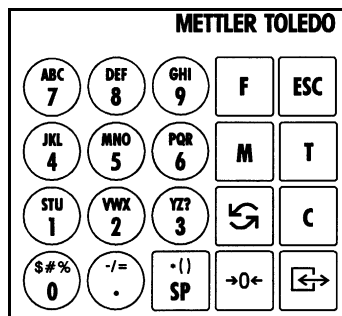
Keyboard

All tasks are performed using a standard "QWERTY" keyboard that is connected to the terminal. This is the type of keyboard generally used with personal computers. The letters Q-W-E-R-T-Y appear on the left in the third row from the top.

Template

A template (legend) is included for use with the JAGMAX software. Place it above the function (F) keys on the keyboard attached to the terminal so you know how to use these keys for various operations.

APPLICATION SETUP	TRANS. REPORT	IN-PROCESS TRUCKS RPT	ACCUM. REPORT		MAINTENANCE MODE					NORMAL OPER.	METTLER TOLEDO
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
					NORMAL OPERATION						
WEIGH	RE-WEIGH	DOUBLE	TRIPLE	MOVING VAN	ID			SCROLL SCALES	RE-PRINT	MAINT. MODE	VOID TRANS.	JAGMAX

Traffic Lights

If traffic lights are used in your facility, they will work automatically for most tasks. However, when you are weighing trucks that have more than one trailer, you will need to operate the traffic lights manually so you can indicate to the driver to move the truck forward on the scales to weigh the additional axles.

Operating Modes

The terminal's functions are grouped together by category or "mode." To perform the various functions, you access the particular mode by pressing the appropriate function key (the F keys at the top of the keyboard). The template (legend) included with the JAGMAX software should be positioned above these keys on your keyboard. The green section on the template is labeled to help you use the appropriate function keys. The orange portion of the template refers to steps that are done during the setup of the JAGMAX controller and should not be used when operating the equipment.

The various modes and their associated function keys are described here. Refer to Chapter 2 for directions on weighing trucks in these modes.

M

Memory (M) accesses various memory functions, depending on the JAGXTREME terminal's setup configuration, including:

- **Prompt List** – The prompt list permits data entry into a user-defined prompt list created through the Configure Memory program block in setup.

- **Consecutive Number** – This feature displays the current consecutive number. You can also reset the consecutive number.

- **Enter Setpoint** – If accessed, this feature allows entry of the setpoint cutoff values that are assigned to the active scale.

- **Time** – This feature displays the clock and allows adjustment of the time.

- **Date** – The date feature displays and allows adjustment of the date.

F1

Weigh Mode -- For quick processing of standard semi trucks, printing axle and gross weights, and charging a Weigh Mode fee.

F2

Re-Weigh Mode -- For quick re-processing of standard trucks (a truck returns to the scale within a specified amount of time), printing axle and gross weights, and charging a reduced Re-Weigh Mode fee.

F3

Double Mode -- For processing or re-processing trucks with two trailers (maximum of 9 axles), printing axle and gross weights, and charging either a Double Mode or Re-Weigh Mode fee.

F4	**Triple Mode** -- For processing or re-processing trucks with three trailers (maximum of 9 axles), printing axle and gross weights, and charging either a Triple Mode or Re-Weigh Mode fee.

F5	**Moving Van Mode** -- For quick processing of moving-type trucks, printing the axle and gross weights, and charging a Moving Van mode fee.

F6	**ID Mode** -- For processing a truck, storing a weighment (printout may not be required for inbound or first weighment) and recalling that stored weight for a later, second weighment. A Gross, Tare, and Net weight ticket will then be printed, and ID Mode fee will be charged.

You cannot use any other keys to access these modes. Also, during setup, some of these modes may have been set so that you do not have access to them. In these cases, pressing the function keys for those modes will result in the mode name being displayed, followed by **[Invalid Function]**.

Within each of these modes, you will be prompted to make various selections. You can scroll through the selections by pressing **F9** or the space bar. Note: Only the scales that are configured will be shown. For example, if three scales have been configured, the prompt selections will be for **[Scale A]**, **[Scale B]**, and **[Scale C]**.

For information on using the remaining function keys (**F10 - F12**), see Chapter 4, Advanced Functions.

Weighing Terminology

Understanding the following terminology specifically related to the use of the JAGMAX application software will help you operate it.

Gross Weight – The entire weight of a truck and its contents.

Tare Weight – The weight of an empty truck.

Net Weight – The weight of a sample, product or load. This is determined by deducting the weight of the empty truck from the weight of the loaded truck.

G-T-N – A printout that shows the gross, tare, and net weights of a truck.

Threshold -- A value that the terminal uses to determine whether or not there is a truck on the scale. When the steering axle scale (Scale A) is above the threshold value, the system thinks there is a truck on the scale. This threshold value is also used to activate the traffic lights and the prompts on the lower display of the terminal.

In-Process File – A file within the terminal's system that stores information from the first half of a two-part (ID mode) weighing transaction. An **In-Process Truck** is a truck that has completed one part of a two-part weighing transaction (which means it is an outbound truck.)

Audit Trail Printing – A log of all transactions that features a brief description of each transaction. Audit trail printing is usually done on a second printer attached to the JAGXTREME terminal.

Zero Range – A range within which it is possible to set the terminal to a balance of zero.

2 Basic Operations

Basic Weighing Instructions

Idle Mode

When you first use the JAGMAX software in the JAGXTREME terminal, as well as after you have completed weighing a truck, the terminal will be in Idle Mode. This means there is no weight (truck) on the scale.

The traffic light(s) will be green, indicating that the weighing system is ready to process a truck. If a scoreboard is used to display ticket numbers, the display will be blank.

The lower display on the terminal will show the current time using the format selected in the controller setup.

Press **F9** or the space bar to scroll through the gross scale weights. This changes the display to read **[Scale X: WWWWWW]** where X is the scale identifier (A, B, C, D) and WWWWWW is the scale's gross weight, if valid, or **[OVERCAP], [UNDERCAP],** or **[ERROR].** Note: Only scales that were configured during the setup of the JAGXTREME terminal and the JAGMAX software will be displayed.

Once a truck pulls on to the scale, its weight will appear on the upper display. An arrow will point to one of the labels below this display to indicate the weighing unit (lb or kg). When the weight on scale A exceeds the threshold weight, the entrance and exit traffic lights will turn red. If the Truck On Alarm was enabled in setup, it will turn on and remain on for the number of seconds for which it was programmed. If an optional ticket number scoreboard is used, and the system was configured to use traffic lights, the ticket number for this truck will be displayed now.

The terminal will be set to operate in either automatic or semi-automatic mode, which determines what actions you need to take.

Semi-Automatic Mode

Most truck stop operations require the flexibility to weigh (and charge) for a variety of trailer combinations. The JAGMAX software allows you to select the appropriate weighing mode when it is programmed to operate in a semi-automatic mode. The following are general instructions for weighing a truck in semi-automatic mode.

Instruct the truck driver to drive the truck onto the scale and position the front axle on scale A. (The example shown here depicts a three-scale system.)

Scale A   Scale B   Scale C
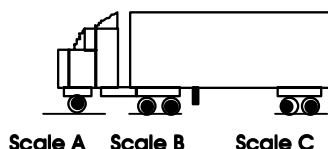
The JAGMAX software will already have been set with a threshold value. Once the weight on the first scale (scale A) goes over this threshold value, the controller recognizes that a truck is on the scale. The traffic light(s) will turn red, and the terminal will be ready to perform various weighing operations.

The display will read **[Select Function].** Press the function (**F**) key corresponding to the weighing mode you wish to use:

>F1 – Weigh Mode   F5 – Moving Van Mode
>
>F2 – Re-Weigh Mode   F6 – ID Mode
>
>F3 – Double Mode
>
>F4 – Triple Mode

Note: If both Truck ID and Comment were disabled in setup, the terminal will skip these steps and proceed to the sequence determined by the selected weigh mode.

If an optional ticket number scoreboard is used, and the system was configured not to use traffic lights, the ticket number for this weighment will be displayed now.

- If the mode you choose was disabled during setup, the display will read **[INVALID FUNCTION]** then return to **[Select Function],** allowing you to select another weighing mode.

- At the **[Truck ID:]** prompt, enter a truck ID with up to 8 characters, then press **Enter**.

    - If you do not want to enter a truck ID, simply press **Enter.**

    - If the Truck ID field was disabled in setup, the **[Truck ID:]** prompt is skipped and the program automatically moves on to the next display.

- At the **[Comment:]** prompt, enter a comment up to 45 characters, then press **Enter.** The comment will print on the ticket (if this option was selected for the ticket format during setup) and on the audit trail printer (if this was enabled in setup). However, the comment will not be stored in the transaction file.

    - If you do not want to enter a comment, simply press **Enter.**

    - If the comment field was disabled in setup, the **[Comment:]** prompt is skipped and the program automatically moves on to the next display.

- The weight will be taken, and a ticket will be printed. (The format of the ticket and the information on it will depend on the print format selections made during setup.)

Note: If **[Load Paper+Enter]** is displayed, the printer is out of paper and unable to receive data from the terminal. Load paper into the printer, and press **ENTER**.

- The exit light will then turn green, indicating that the truck driver can move the truck off the scale. If the system is configured to work without traffic lights, this state will last for only a few seconds and then the system will return to the idle mode. If the system is configured to use traffic lights, it will remain in this state until the summed weight drops below the threshold value, then return to idle mode.

Automatic Mode

Note: If both Truck ID and Comment were disabled in setup, the terminal immediately saves the weight and prints a ticket as long as the weight on all scales are valid and there is no motion on any of the scales.

Automatic mode is used for simple weighing and automatically selects Weigh Mode.

When a truck pulls on to the scale and the weight on the steering axle scale (scale A) goes over the pre-set threshold value, the traffic light(s) turns red.

- At the **[Truck ID:]** prompt, enter a truck ID with up to 8 characters, then press **Enter**.

  - If you do not want to enter a truck ID, simply press **Enter**.

  - If the Truck ID field was disabled in setup, the **[Truck ID:]** prompt is skipped and the program automatically moves on to the next display.

- At the **[Comment:]** prompt, enter a comment up to 45 characters, then press **Enter**. The comment will print on the ticket (if this option was selected for the ticket format during setup) and on the audit trail printer (if this was enabled in setup). However, the comment will not be stored in the transaction file.

  - If you do not want to enter a comment, simply press **Enter**.

  - If the comment field was disabled in setup, the **[Comment:]** prompt is skipped and the program automatically moves on to the next display.

As soon as all weights are valid and there is no motion on any of the scales, a ticket is printed, and the exit light turns green while the entrance light remains red.

If the system is configured to work without traffic lights, this state will last for only a few seconds and then the system will return to the idle mode. If the system is configured to use traffic lights, it will remain in this state until the summed weight drops below the threshold value, then return to idle mode.

Zeroing the Scale
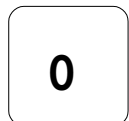
In some cases, the truck scales connected to the JAGXTREME terminal may not be at zero (for example, if there is snow on the scales). You can zero the scale before weighing a truck to compensate for this weight.

- Press the **0** key on the keyboard while there is no truck on the scale.

  - If all scales are within the zero range, the display will read **[Zeroing Scales]** and the terminal will zero the scales. The controller will then return to Idle mode.

  - If any scale is out of zero range, the display will read **[Out of ZeroRange].** The controller will then return to Idle Mode.

Switching Units

U

There may be instances when you need to switch the weighing units.

- Press the **U** key on the keyboard. The traffic light will turn red and the display will read **[Switching Units].** This toggles all scales between the primary and secondary weighing units that were selected when the JAGMAX software was programmed.

    - If you are not allowed to change the weighing units, the display will read **[Switch. Disabled]** for two seconds. The controller will return to Idle mode.

    - If changing the weighing units will result in mismatched units on the scales, the display will read **[INVLD OTHR UNITS]** for two seconds.

    - If neither of these error messages appear, the weighing units will be switched on each scale. The controller will return to Idle Mode.

Note: Whatever threshold value was entered when the JAGMAX software was programmed will still be used when you change the weighing units. For example, if the threshold value was set at 10,000 and the scales are using pounds as the weighing unit, the terminal will interpret the threshold to be 10,000 pounds. If you change the weighing unit to kilograms, the terminal will interpret the threshold to be 10,000 kilograms.

3

Weighing Modes

Weigh Mode

F1

Note: If both Truck ID and Comment were disabled in setup, the terminal immediately saves the weight and prints a ticket as long as the weight on all scales are valid and there is no motion on any of the scales.

To weigh a standard semi-truck and print the axle and gross weights, press **F1** to enter Weigh Mode. **[Weigh Mode   ]** is displayed for two seconds. If Weigh Mode was disabled in setup, **[Invalid Function]** will be displayed for two seconds. The display will return to **[Select Function].**

- At the **[Truck ID:]** prompt, enter a truck ID with up to 8 characters. Press **Enter**.

    - If you do not want to enter a truck ID, simply press **Enter**.

    - If the Truck ID field was disabled in setup, the **[Truck ID:]** prompt is skipped and the program automatically moves on to the next display.

- At the **[Comment:]** prompt, enter a comment up to 45 characters. Press **Enter**. The comment will print on the ticket (if this option was selected for the ticket format during setup) and on the audit trail printer (if this was enabled in setup). However, the comment will not be stored in the transaction file.

    - If you do not want to enter a comment, simply press **Enter**.

    - If the comment field was disabled in setup, the **[Comment:]** prompt is skipped and the program automatically moves on to the next display.

- If one of the scales is over capacity, under capacity, or has bad weight data, you will see one of the following displays (with X as the scale identifier – A, B, C or D):

    [Scale X:OVERCAP]   [Scale X:UNDERCAP]   [Scale ERROR]

    The display will remain until all of the weights on the scales are valid.

- If there is any motion on the scale, **[. . . Motion . . .]** will be displayed. The terminal will not continue weighing until there is no motion on the scales.

Note: If **[Load Paper+Enter]** is displayed, the printer is out of paper, and is unable to receive data from the terminal. Load paper into the printer, and press **ENTER**.

- Once there is no motion on the scales, the weights are stored. **[Printing . .]** is displayed while the Weigh Mode ticket is printed. Audit trail printing automatically takes place if that option was selected in setup.

- If semi-automatic audit trail printing was selected in setup, **[Audit Trail: Y]** will be displayed. Press **F9** or the space bar to toggle between **[Y]** or **[N].** Press **Enter** to make a selection. If you select **[Y],** the transaction will print on the audit trail printer.

- **[Exit Scale Now]** will be displayed. The scale exit traffic light will turn green, signaling the truck driver to drive the truck off the scale. The scale entrance light remains red. If the system is configured to work without traffic lights, this state will last for only a few seconds and then the system will return to the idle mode. If the system is configured to use traffic lights, it will remain in this state until the summed weight drops below the threshold value, then return to idle mode.

The following illustration shows how to weigh a truck in the Weigh Mode.

Make certain that the truck is completely on the scale.

OK

SCALE A   SCALE B   SCALE C

INCORRECT

SCALE A   SCALE B   SCALE C
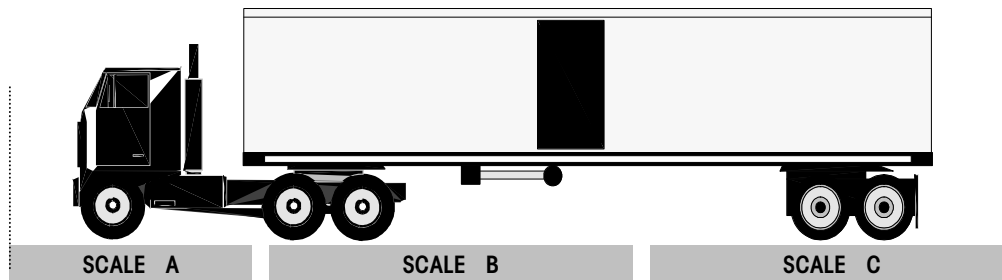
Re-Weigh Mode

F2

If a single trailer semi-truck is being weighed for a second time, and should be charged the lower re-weigh fee, weigh it in Re-Weigh Mode. Press **F2**. **[Re-Weigh Mode]** is displayed for two seconds. If this mode was disabled in setup, **[Invalid Function]** will be displayed for two seconds, then the display will return to **[Select Function].**

Refer to the steps outlined in Weigh Mode for weighing the truck after the **[Re-Weigh Mode]** display appears. Re-Weigh Mode works the same way. The only difference is that the re-weigh fee will be charged.
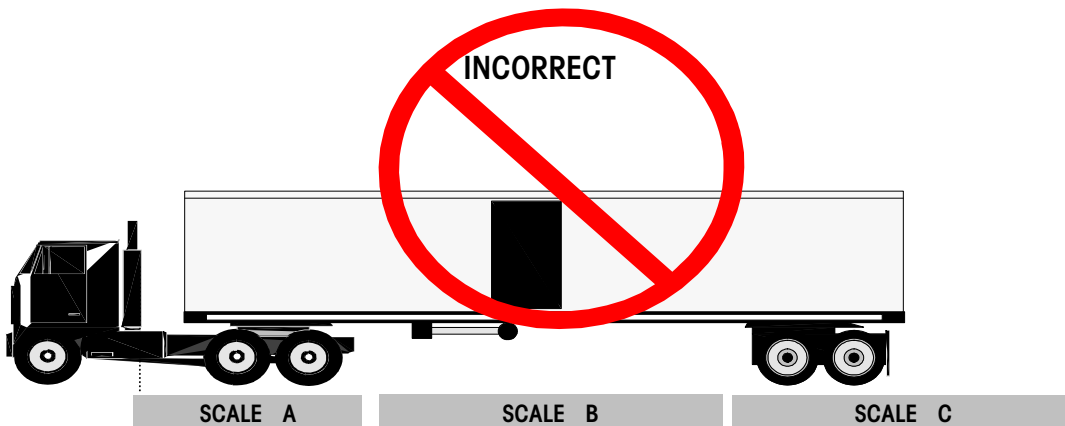
The following illustration shows how to weigh a truck in Re-Weigh Mode.

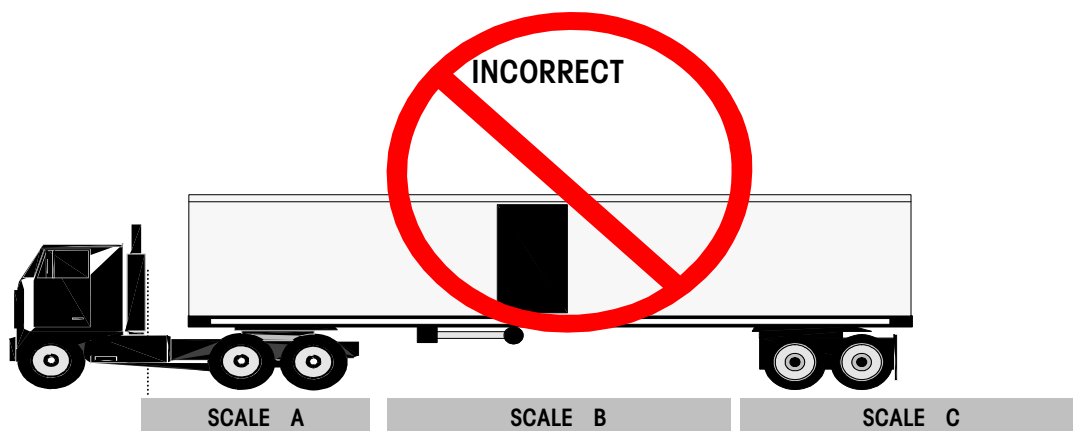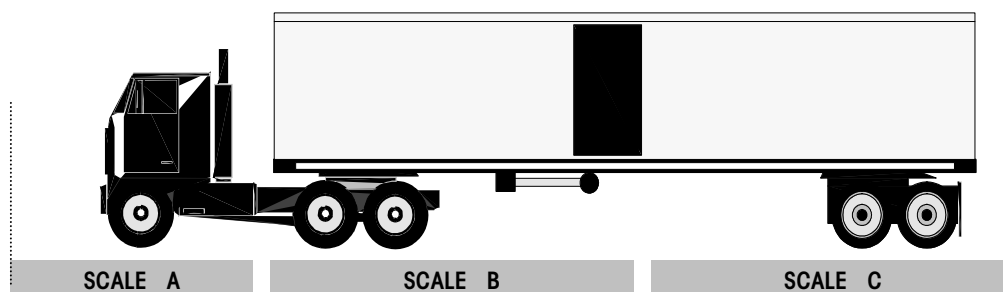Make certain that the truck is completely on the scale.

OK

SCALE   A   SCALE   B   SCALE   C

INCORRECT

SCALE   A   SCALE   B   SCALE   C

Double Mode

F3

This mode is used to weigh trucks with two trailers. This will require you to weigh the truck axles that fit on the scales, and then have the driver move the truck forward on the scales so that you can weigh the remaining axles.

A maximum of nine axles may be weighed and printed. However, only 5 axle weights are stored in the transaction log file. If a truck with more than 5 axles is weighed, its axle weights will be printed on the original ticket, but they will not be stored in the transaction log file.

- Press **F3** to enter Double Mode. **[Double Mode   ]** will be displayed for two seconds. If Double Mode was disabled in setup, **[Invalid Function]** will be displayed for two seconds, then the display will return to **[Select Function].**

  Note: In both Double and Triple Mode (see the next section), if you chose the wrong mode, you can press **Esc**. The display will read **[Abort Transaction? Y]**. Choose **[Y]** to exit and go back to the **[Select Function]** display. You can also press **Esc** to start over after you have added some scale weights to the recorded total.

- Instruct the driver to position the truck on scale platform 1 and 2.

- At the **[Truck ID:]** prompt, enter a truck ID with up to 8 characters, then press **Enter**.

  - If you do not want to enter a truck ID, simply press **Enter**.

  - If the Truck ID field was disabled in setup, the **[Truck ID:]** prompt is skipped and the program automatically moves on to the next display.

- At the **[Comment:]** prompt, enter a comment up to 45 characters, then press **Enter**. The comment will print on the ticket (if this option was selected for the ticket format during setup) and on the audit trail printer (if this was enabled in setup). However, the comment will not be stored in the transaction file.

  - If you do not want to enter a comment, simply press **Enter**.

  - If the comment field was disabled in setup, the **[Comment:]** prompt is skipped and the program automatically moves on to the next display.

The next display reads **[N:TTTTTT].** N is the number of weights recorded so far and TTTTTT is the total weight recorded.

To Add Weight

- Press **F9** or the space bar to scroll through the gross scale weights. This changes the display to read **[Scale X: WWWWWW]** where X is the scale identifier (A, B, C, D) and WWWWWW is the scale's gross weight, if valid, or **[OVERCAP]**, **[UNDERCAP]** or **[ERROR].**

- Note: Only scales that were configured during setup will be displayed.

- Press **Enter** to select the displayed scale. The previous display will remain until the weight on the selected scale weight is valid (not **[OVERCAP]**, **[UNDERCAP]** or **[ERROR]**). **[. . Motion . .]** will be displayed until there is no motion on the selected scale. The display will read **[Add Scale X=WWWWWW?   Y]** where X is the scale identifier and WWWWWW is the scale weight.

- Press **F9** or the space bar to toggle between **[Y]** or **[N]** and press **Enter** to make a selection.

- If **[N]** is selected, the weight will not be added and the display will return to **[N: TTTTTT]**.

- If **[Y]** is selected, the weight will be added and the display will return to **[N: TTTTTT]**.

- Scroll to the next scale you wish to add. Repeat the process above, re-positioning the truck as needed. Remember, you will need to operate the traffic lights manually to indicate to the driver when to move the truck.

To Delete Weight

- To delete the last recorded weight, press **Delete** on the keyboard while **[N:TTTTTT]** is displayed. The display then reads **[Delete Last Wt?Y].**

- Press **F9** or the space bar to toggle between **[Y]** and **[N].** Press Enter to accept the current selection.

  - If **[Y]** is selected, the last recorded weight will be deleted, and the display will return to **[N:TTTTTT].**

  - If **[N]** is selected, the display will return to **[N:TTTTTT].**

To Abort Transaction

- To escape out of this mode without completing it, press **Esc** while **[N: TTTTTT]** is displayed. **[Abort Trans? N]** will be displayed.

- Press **F9** or the space bar to toggle between **[Y]** and **[N].** Press **Enter** to accept the current selection.

  - If **[Y]** is selected, the display will return to **[Select Function]**.

 - If **[N]** is selected, the display will return to **[N:TTTTTT]**.

To Complete the Transaction

Note: If **[Load Paper+Enter]** is displayed, the printer is out of paper, and is unable to receive data from the terminal. Load paper into the printer, and press **ENTER**.

- When you have finished weighing the truck, press **F1** to select the double mode fee or **F2** to select the re-weigh mode fee. The display then reads **[Printing…]**, and the double mode ticket is printed.

- Audit trail printing automatically takes place if that option was selected in setup. If semi-automatic audit trail printing was selected in setup, **[Audit Trail: Y]** will be displayed.

- Press **F9** or the space bar to toggle between **[Y]** or **[N]** and press **Enter** to make a selection. If you selected **[Y],** the transaction will be printed on the audit trail printer.

- **[Exit Scale Now   ]** will be displayed, and the scale exit traffic light will turn green, signaling the truck driver to drive the truck off the scale. The scale entrance traffic light remains red. If the system is configured to work without traffic lights, this state will last for only a few seconds and then the system will return to the idle mode. If the system is configured to use traffic lights, it will remain in this state until the summed weight drops below the threshold value, then return to idle mode.

Double mode is used when individual axle weights of a double trailer are required. Several weighments will be stored and the truck's position on the scale platforms will be important.

The following illustration shows how to weigh a truck in Double Mode.
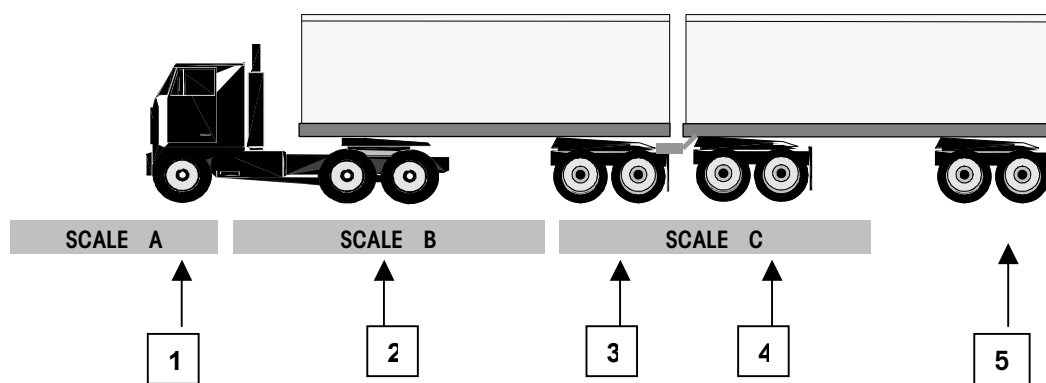
Position the truck so that the first axle is completely on a scale platform alone (no other axles are on that platform also). In the example above, Axle 1 is on scale A with no other axles.

Once Double Mode is selected, follow these directions.

- Press **F9** (or the space bar) until the lower display shows Scale A and its weight value.

- Press **ENTER** to record this as the first axle's weight. If you select the incorrect scale or make some other mistake, follow the directions for deleting a weight or aborting the transaction.

- Once the weight is recorded, the display will read "1:XXXXXX", where XXXXXX is the weight value.

- You can now record another weight or reposition the truck as needed. In the above example, Axle 2 is on Scale B with no other axles, so its weight can be recorded.

- Press **F9** (or the space bar) until the lower display shows Scale B and its weight value.

- Press **ENTER** to record this as the second axle's weight. If you select the incorrect scale or make some other mistake, follow the directions for deleting a weight or aborting the transaction. Once the weight is recorded, the display will read "2:XXXXXX", where XXXXXX is the total weight value.

- You can now record another weight or reposition the truck as needed.

In this example Axle 3 and Axle 4 are on the same scale platform, so we must reposition the truck. The driver is instructed to move his truck forward.
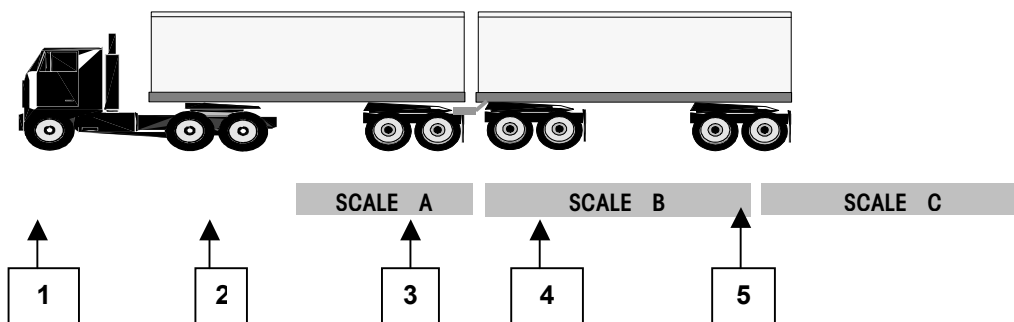
Axle 3 is now positioned on Scale A without any other axles.

- Press **F9** (or the space bar) until the lower display shows Scale A and its weight value.

- Press **ENTER** to record this as the third axle's weight. If you select the incorrect scale or make some other mistake, follow the directions for deleting a weight or aborting the transaction.

- Once the weight is recorded, the display will read "3:XXXXXX", where XXXXXX is the total weight value. You can now record another weight or reposition the truck.

- Axle 4 and Axle 5 are both on Scale B, so the truck must be repositioned. The driver is instructed to move his truck forward.
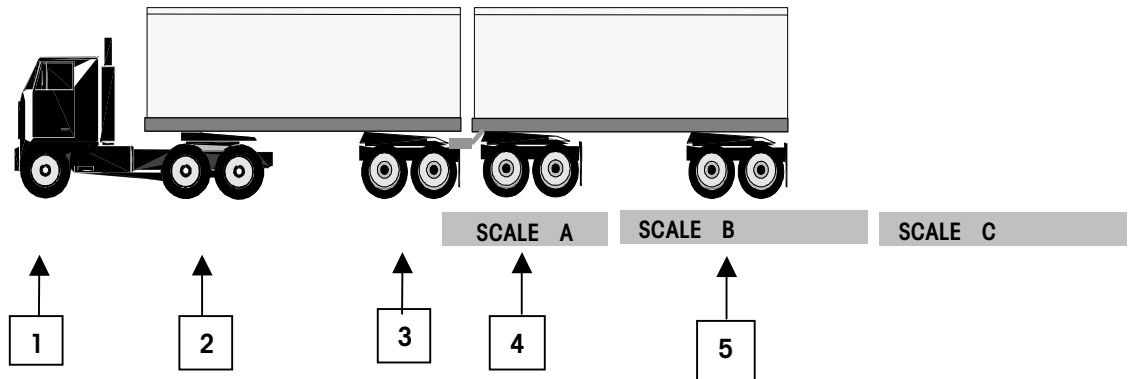
Axle 4 is now positioned on Scale A without any other axles.

- Press **F9** (or the space bar) until the lower display shows Scale A and its weight value.

- Press **ENTER** to record this as the fourth axle's weight. If you select the incorrect scale or make some other mistake, follow the directions for deleting a weight or aborting the transaction.

- Once the weight is recorded, the display will read "4:XXXXXX", where XXXXXX is the total weight value. You can now record another weight or reposition the truck.

- Since Axle 5 is on Scale B by itself, you can record its weight without moving the truck.

- Press **F9** (or the space bar) until the lower display shows Scale B and its weight value.

- Press **ENTER** to record this as the fifth axle's weight. If you select the incorrect scale or make some other mistake, follow the directions for deleting a weight or aborting the transaction.

- Once the weight is recorded, the display will read "5:XXXXXX", where XXXXXX is the total weight value.

- Once the last axle has been weighed, press F1 (or F2 for a Reweigh) to complete the transaction and print the ticket.
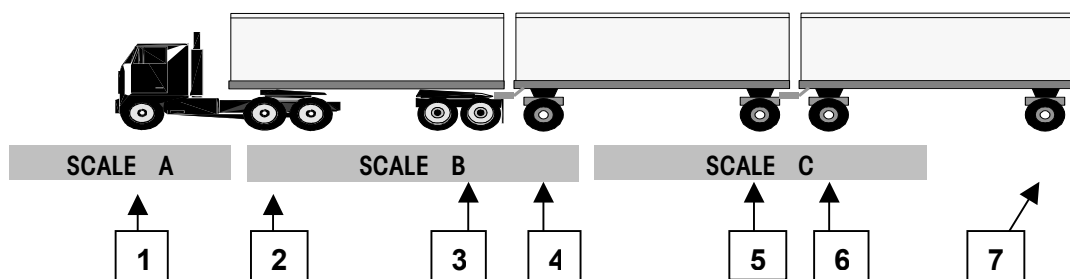
Triple Mode

F4

Triple Mode is used for weighing trucks with three trailers. Press **F4** to enter Triple Mode. The **[Triple Mode   ]** prompt will be displayed for two seconds. If Triple Mode was disabled in setup, **[Invalid Function]** will be displayed for two seconds, then the display will return to **[Select Function].**

Refer to the directions for weighing in Double Mode. Triple Mode works the same way as the Double Mode, except that a Triple Mode ticket will be printed and the triple mode or re-weigh mode fee will be charged.

Triple mode is used when individual axle weights of a triple trailer are required. Several weighments will be stored and the truck's position on the scale platforms will be important.

The following illustration shows how to weigh a truck in Triple Mode.

Position the truck so that the first axle is completely on a scale platform alone (no other axles are on that platform also). In the example above, Axle 1 is on scale A with no other axles. Once Triple Mode is selected, follow the directions.

- Press **F9** (or the space bar) until the lower display shows Scale A and its weight value.

- Press **ENTER** to record this as the first axle's weight. If you select the incorrect scale or make some other mistake, follow the directions for deleting a weight or aborting the transaction.

- Once the weight is recorded, the display will read "1:XXXXXX", where XXXXXX is the weight value. You can now record another weight or reposition the truck as needed.

In the above example, Axle 2, Axle 3, and Axle 4 are all on Scale B, so the truck must be repositioned. The driver is instructed to move his truck forward.
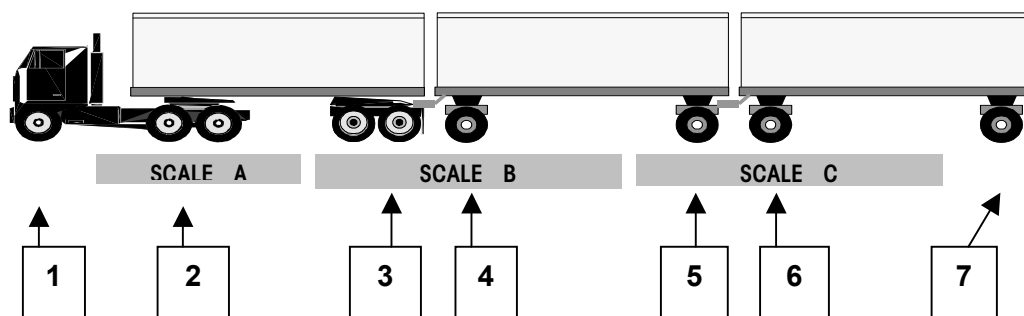
Axle 2 is now positioned on Scale A by itself.

- Press **F9** (or the space bar) until the lower display shows Scale A and its weight value.

- Press **ENTER** to record this as the second axle's weight. If you select the incorrect scale or make some other mistake, follow the directions for deleting a weight or aborting the transaction.

- Once the weight is recorded, the display will read "2:XXXXXX", where XXXXXX is the total weight value. You can now record another weight or reposition the truck as needed. In the above example, Axle 3 and Axle 4 are both on Scale B, so the truck must be repositioned. The driver is instructed to move his truck forward.

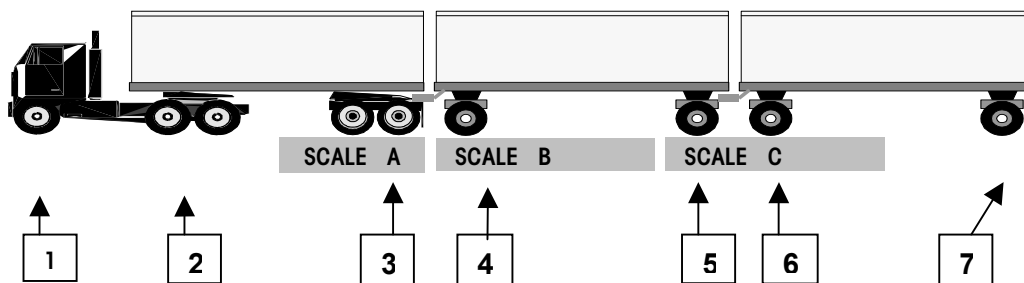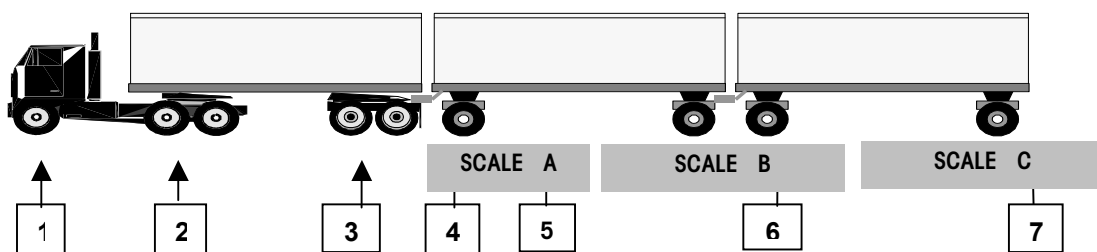Axle 3 is now positioned on Scale A by itself.

- Press **F9** (or the space bar) until the lower display shows Scale A and its weight value.

- Press **ENTER** to record this as the third axle's weight. If you select the incorrect scale or make some other mistake, follow the directions for deleting a weight or aborting the transaction.

- Once the weight is recorded, the display will read "3:XXXXXX", where XXXXXX is the total weight value. You can now record another weight or reposition the truck as needed.

  In the above example, Axle 4 is positioned on Scale B by itself, so the weight can be recorded.

- Press **F9** (or the space bar) until the lower display shows Scale B and its weight value.

- Press **ENTER** to record this as the fourth axle's weight. If you select the incorrect scale or make some other mistake, follow the directions for deleting a weight or aborting the transaction.

- Once the weight is recorded, the display will read "4:XXXXXX", where XXXXXX is the total weight value. Axle 5 and Axle 6 are both on Scale C, so the truck must be repositioned before recording another weight.

- The driver is instructed to move his truck forward.

In the example, Axle 5 is now positioned on Scale A by itself.

- Press **F9** (or the space bar) until the lower display shows Scale A and its weight value.

- Press **ENTER** to record this as the fifth axle's weight. If you select the incorrect scale or make some other mistake, follow the directions for deleting a weight or aborting the transaction.

- Once the weight is recorded, the display will read "5:XXXXXX", where XXXXXX is the total weight value. You can now record another weight or reposition the truck as needed.

In the above example, Axle 6 is positioned on Scale B by itself, so the weight can be recorded.

- Press **F9** (or the space bar) until the lower display shows Scale B and its weight value.

- Press **ENTER** to record this as the sixth axle's weight. If you select the incorrect scale or make some other mistake, follow the directions for deleting a weight or aborting the transaction.

- Once the weight is recorded, the display will read "6:XXXXXX", where XXXXXX is the total weight value. You can now record another weight or reposition the truck as needed.

Since Axle 7 is positioned on Scale C by itself, its weight can be recorded.

- Press **F9** (or the space bar) until the lower display shows Scale C and its weight value.

- Press **ENTER** to record this as the seventh axle's weight. If you select the incorrect scale or make some other mistake, follow the directions for deleting a weight or aborting the transaction.

- Once the weight is recorded, the display will read "7:XXXXXX", where XXXXXX is the total weight value.

Once the last axle has been weighed, press **F1** (or **F2** for a Reweigh) to complete the transaction and print the ticket.

Moving Van Mode

F5

Note: If both Truck ID and Comment were disabled in setup, the terminal immediately saves the weight and prints a ticket as long as the weight on all scales are valid and there is no motion on any of the scales.

Press **F5** to enter Moving Van Mode. **[Moving Van Mode]** will be displayed for two seconds. If Moving Van Mode was disabled in setup, **[Invalid Function]** will be displayed for two seconds, then the display will return to **[Select Function].**

- At the **[Truck ID:]** prompt, enter a truck ID with up to 8 characters, then press **Enter**.

    - If you do not want to enter a truck ID, simply press **Enter**.

    - If the Truck ID field was disabled in setup, the **[Truck ID:]** prompt is skipped and the program automatically moves on to the next display.

- At the **[Comment:]** prompt, enter a comment up to 45 characters, then press **Enter.** The comment will print on the ticket (if this option was selected for the ticket format during setup) and on the audit trail printer (if this was enabled in setup). However, the comment will not be stored in the transaction file.

    - If you do not want to enter a comment, simply press **Enter**.

    - If the comment field was disabled in setup, the **[Comment:]** prompt is skipped and the program automatically moves on to the next display.

        At this point, if one of the scales is over capacity, under capacity, or has bad weight data, you will see one of the following displays, where X is the scale identifier – A, B, C, or D.

    [Scale X:OVERCAP]

    [Scale X:UNDERCAP]

    [Scale ERROR]

    The display will remain until all of the weights on the scales are valid.

    In addition, if there is any motion on the scale, **[. . . Motion . . .]** will be displayed. The terminal will not continue the weighing process until there is no motion on the scales.

    Once there is no motion on the scales, the weights are stored. **[Printing. . . .]** is displayed while the Moving Van Mode ticket is printed.

- Audit trail printing automatically takes place if that option was selected in setup. If semi-automatic audit trail printing was selected in setup, **[Audit Trail: Y]** will be displayed. Press **F9** or the space bar to toggle between **[Y]** or **[N]** and press **Enter** to make a selection.

    If you selected **[Y],** the transaction will be printed on the audit trail printer.

- **[Exit Scale Now]** will be displayed, and the scale exit traffic light will turn green, signaling the truck driver to drive the truck off the scale. The scale entrance light remains red. If the system is configured to work without traffic lights, this state will last for only a few seconds and then the system will return to the idle mode. If the system is configured to use traffic lights, it will remain in this state until the summed weight drops below the threshold value, then return to idle mode.

Make certain that the truck is completely on the scale.

OK

INCORRECT
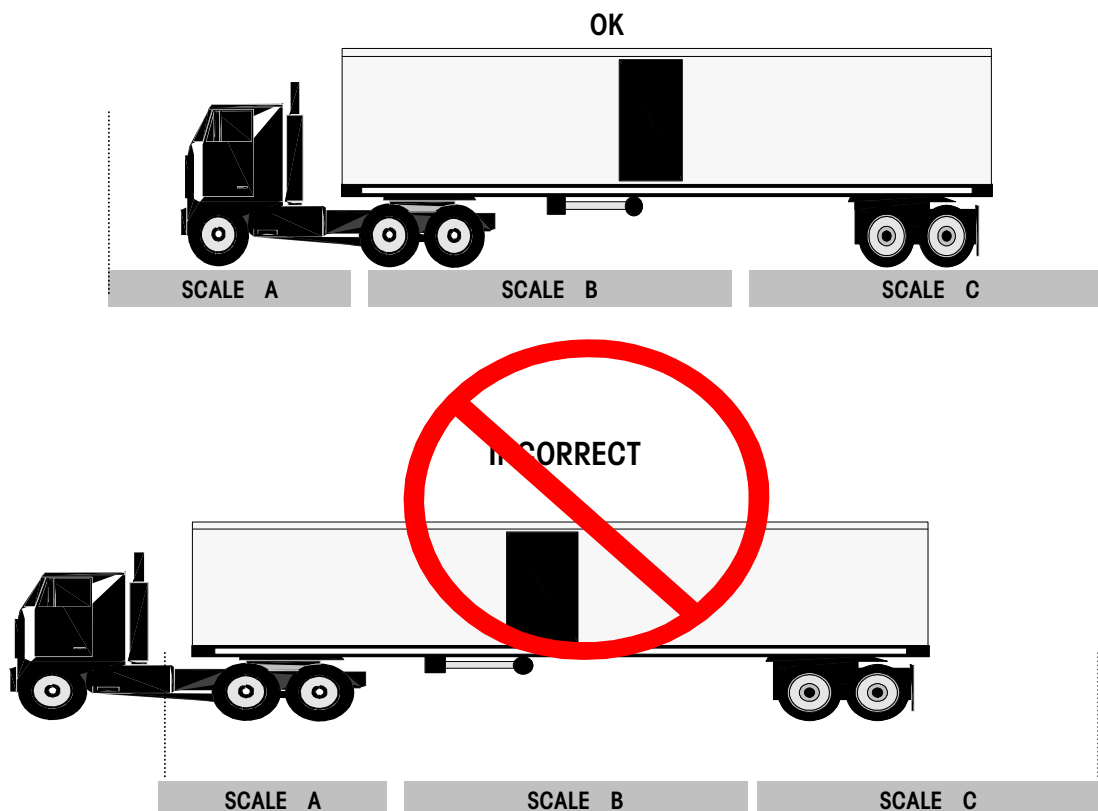
ID Mode

Press **F6** to enter ID Mode.

The **[ID Mode   ]** prompt will be displayed for two seconds. If ID Mode is disabled in setup, the display will read **[INVALID FUNCTION]** for two seconds then return to the **[Select Function]** display.

- At the **[Truck ID:]** prompt, enter a truck ID of up to 8 characters then press **Enter**. (If Auto Assign ID was enabled during setup, you can simply press **Enter** to have an ID automatically assigned. **[AUTO ID: XXXXXXXX]** will be displayed, where XXXXXXXX is the auto ID assigned to this truck. If Auto Assign ID was disabled during setup and no ID is entered, "ID Required" will be displayed and the display will return to **[Truck ID:]**).

- If the ID is found in the in-process trucks file, the display will read **[InProcess Trk? Y]**. This lets you know that the first weight for this truck has already been recorded, making it an outbound truck.

  - Press **Enter** to select **[Y]** if this is the second time the truck is being weighed (also referred to as second or outbound weighment).

  - If this is not the second time it is being weighed, you can press the **F9** key or space bar to toggle to **[N]**, followed by the **Enter** key. This returns you to the **[Truck ID:]** prompt. This means that the ID you entered is already in use. Select a different ID.

- If the ID was not found in the in-process trucks file, the display will read **[New Truck?   Y]**. It is considered an inbound truck.

- Press **Enter** to select **[Y]** if this is the first time the truck is being weighed (also referred to an inbound weighment).

- If this is not the first time the truck is being weighed (i.e. it is a second or outbound weight), use the **F9** key or space bar to toggle to **[N]** and press **Enter**. This returns you to the **[Truck ID:]** prompt. This means that the ID you entered does not match the ID used for the truck's first weighment. Verify the ID and carefully re-enter it.

• After determining if the truck being weighed is inbound or outbound, the display will read **[Comment:]** if this was enabled in setup. Enter a comment of up to 45 characters followed by **Enter**. Or, simply press **Enter** to leave the comment blank.

Note: If **Y** (Yes) is selected at the **[New Truck?]** prompt, but the in-process file is full, **[TOO MANY RECORDS]** will be displayed, then the terminal will advance to the **[Exit Scale Now]** prompt.

• At this point, if one of the scales is over capacity, under capacity, or has bad weight data, you will see one of the following displays, with X as the scale identifier (A, B, C or D):

> **[Scale X:OVERCAP]**

> **[Scale X:UNDERCAP]**

> **[Scale ERROR   ]**

The display will remain until all of the weights on the scales are valid.

• If there is motion on any of the scales, **[. . Motion . .]** will be displayed until there is no motion on all scales simultaneously.

For an inbound truck with inbound ticket printing enabled in setup, **[Printing…]** will be displayed, and the ID Mode inbound ticket will be printed. The data will be stored in the In-Process file. ID Mode inbound information is <u>NOT</u> printed to the audit trail port, regardless of the audit trail mode selected in setup.

Note: If **[Load Paper+Enter]** is displayed, the printer is out of paper, and is unable to receive data from the terminal. Load paper into the printer, and press **ENTER**.

For an outbound truck (second weight), **[Printing…]** will be displayed and the ID Mode outbound ticket (G-T-N) will be printed. The inbound record will be deleted from the in-process file.

For outbound trucks, audit trail printing automatically takes place if that option was selected in setup. If semi-automatic audit trail printing was selected in setup, **[Audit Trail: Y]** will be displayed. Press **F9** or the space bar to toggle between **[Y]** or **[N]** and press **Enter** to make a selection.

If you selected **[Y],** the transaction will be printed on the audit trail printer.

• **[Exit Scale Now]** will be displayed, and the scale exit traffic light will turn green, signaling the truck driver to drive the truck off the scale. The scale entrance light remains red. If the system is configured to work without traffic lights, this state will last for only a few seconds and then the system will return to the idle mode. If the system is configured to use traffic lights, it will remain in this state until the summed weight drops below the threshold value, then return to idle mode.

This mode requires two weighments of the truck. If the first is empty, the second is full; or if the first is full, the second is empty. The ID is used to recall the first weighment, which is stored until the second weighment can be made.

Make certain the truck is completely on the scale for each weighment.

OK

1st weighment: Weight is stored by ID
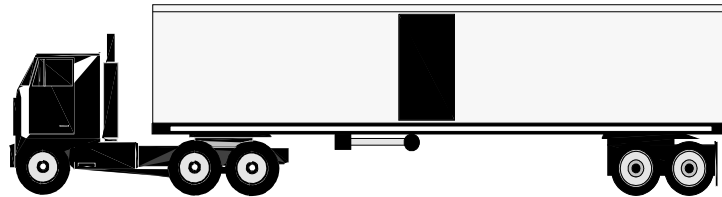
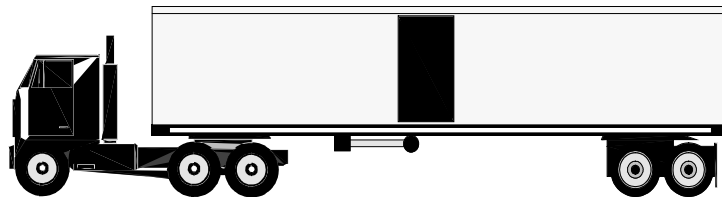SCALE   A   SCALE   B   SCALE   C

The truck leaves the scale and then returns after loading or unloading its cargo.

OK

2nd weighment: ID is entered to recall stored weight and print the ticket.

SCALE   A   SCALE   B   SCALE   C

4   Advanced Functions

Overview

The JAGMAX software may have been set up to allow you to perform other tasks such as voiding a transaction or printing a specific report. Some of these functions may be restricted to use by supervisors or other authorized personnel only.

Re-Printing the Last Ticket Printed

- To reprint the last ticket printed, press **F10** when there is not a truck on the scale. The traffic lights will turn red, and **[Re-Print Ticket]** will be displayed followed by **[Please Wait…]**.

  The controller will return to Idle Mode.

Voiding a Transaction

Note: In-process records cannot be voided.

- To void a transaction, press **F12** when there is not a truck on the scale. The traffic light will turn red and **[Void Transaction]** will be displayed for two seconds. If there are no records in the transaction file, the program will display **[NO TRANSACTIONS]** for two seconds before returning to the Idle Mode.

- **[ID/Ticket: Tkt]** will be displayed. At this prompt, select whether to search for the transaction by its ID or its ticket number. Press **F9** or the space bar to toggle between **[Tkt]** and **[ID]**. Press **Enter** to make your selection.

Voiding a Transaction by Ticket Number

- At the **[Ticket:]** prompt, type in the ticket number of transaction you want to void and press **Enter**.

  - If only one record with this ticket number if found, the display reads **[Are You Sure? N]**. Press **F9** or the space bar to toggle between **[Y]** and **[N]**, and press **Enter** when your selection is displayed.

    - Select **[Y]** to void the transaction. The display will read **[TRANS. VOIDED]**, then return to the Idle Mode.

    - Select **[N]** to return to the Idle Mode without voiding the transaction.

- If more than one record with this ticket number is found in the selected file, the date and time of the first matching ticket will be displayed. Press **F9** or the space bar to view the date and time of the next record with a matching ticket number. If another record is found, its date and time are displayed. If you have scrolled through all of the matching records, the display reads **[REPEATING]** for two seconds. The program will find the first matching record then return to the date and time display. When the date and time of the transaction you want to void is displayed, press **Enter**. The display reads **[Are You Sure? N].** Press **F9** or the space bar to toggle between **[Y]** and **[N]**, and press **Enter** when your selection is displayed.

  - Select **[Y]** to void the transaction. The display will read **[TRANS. VOIDED],** then return to the Idle Mode.

  - Select **[N]** to return to the Idle Mode without voiding the transaction.

    The controller will return to the Idle Mode.

- If a record with this ticket number is not found, the display reads **[NO MATCHES]** for two seconds, then returns to the Idle Mode.

Voiding a Transaction by ID

- At the **[ID]** prompt, type in the ID of the transaction you wish to void. Press **Enter**.

- If only one record with this ID is found, the display reads **[Are You Sure? N]**. Press **F9** or the space bar to toggle between **[Y]** and **[N]**, and press **Enter** when your selection is displayed.

  - Select **[Y]** to void the transaction. The display will read **[TRANS. VOIDED],** then return to the Idle Mode.

  - Select **[N]** to return to the Idle Mode without voiding the transaction.

- If more than one record with this ID is found, the date and time of the first matching record will be displayed.

- Press **F9** or the space bar to view the date and time of the next record with a matching ID. If another record is found, its date and time are displayed.

- If you have scrolled through all of the matching records, the display reads **[REPEATING]** for two seconds.

- The program will find the first matching record then return to the date and time display. When the date and time of the transaction you want to void is displayed, press **Enter**.

- The display reads **[Are You Sure? N].** Press **F9** or the space bar to toggle between **[Y]** and **[N]**, and press **Enter** when your selection is displayed.

  - Select **[Y]** to void the transaction. The display will read **[TRANS. VOIDED],** then return to the Idle Mode.

  - Select **[N]** to return to the Idle Mode without voiding the transaction.

- If a record with this ID is not found, the display reads **[NO MATCHES]** for two seconds, then returns to the Idle Mode.

5 Additional Information

Cleaning and Maintenance

You may wipe the JAGXTREME terminal and the attached QWERTY keyboard with a clean, soft cloth that has been dampened with a mild glass cleaner. Do not use any type of industrial solvent such as toluene or isopropanol (IPA) as it could damage the controller's finish. Do not spray cleaner directly on the controller.

Regular maintenance inspections and calibration by a qualified service technician are recommended.

Installation, Programming and Service

Information on installing, configuring, and servicing the JAGXTREME terminal is found in the JAGXTREME Terminal Technical Manual. Installation, configuration, and service should be performed only by qualified personnel. Please contact your local METTLER TOLEDO representative for assistance.

Error Codes

Refer to the table of error codes found in the JAGXTREME Terminal Technical Manual.

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