

SAFE-AID TS 7000 FRONT END LOADER OPERATORS MANUAL

! WARNING !

THE PURPOSE OF THIS MANUAL IS TO PROVIDE THE USER WITH THE OPERATING PROCEDURES ESSENTIAL FOR THE PROMOTION OF PROPER MACHINE OPERATION FOR ITS INTENDED USE. THE IMPORTANCE OF PROPER USAGE CANNOT BE OVERSTRESSED. ALL INFORMATION IN THIS MANUAL SHOULD BE READ AND UNDERSTOOD BEFORE ANY ATTEMPT IS MADE TO OPERATE THE MACHINE.

SINCE THE MANUFACTURER HAS NO DIRECT CONTROL OVER MACHINE APPLICATION AND OPERATION, CONFORMANCE WITH GOOD SAFETY PRACTICE IN THIS AREA IS THE RESPONSIBILITY OF THE USER AND HIS OPERATING PERSONNEL.

ALL PROCEDURES ARE BASED ON THE USE OF THE SYSTEM UNDER PROPER OPERATING CONDITIONS, WITH NO DEVIATIONS FROM THE ORIGINAL DESIGN. ALTERATION AND OR MODIFICATION OF THE EQUIPMENT IS STRICTLY FORBIDDEN WITHOUT PRIOR WRITTEN APPROVAL FROM ELEC-MECH (PTY) LTD.

BEFORE OPERATING A MACHINE EQUIPPED WITH A SAFE-AID TS7000 THE OPERATOR MUST READ THE INFORMATION IN THIS MANUAL CAREFULLY. CORRECT FUNCTIONING OF THE SYSTEM DEPENDS UPON ROUTINE DAILY INSPECTION AND ANY SUSPECTED FAULTS OR APPARENT DAMAGE SHOULD BE IMMEDIATELY REPORTED TO THE RESPONSIBLE PERSON BEFORE USING THE MACHINE.

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1. SYSTEM USE

The TS7000 unit is designed with ease of operation in mind. The touch screen is sensitive to touch therefore it is **not** necessary to **push hard** on the screen (*if the touch screen does not work or selects incorrectly see pg 14 for touch screen calibration*).

2. SYSTEM STARTUP – FIGURE 1

The TS7000 display (LMI) will automatically come on when you switch the front end loader on, the buzzer will sound intermittently and the system will run through a set of internal diagnostics (Figure 1) to make sure all inputs and outputs are working correctly. Once this is done you will automatically go into the running screen

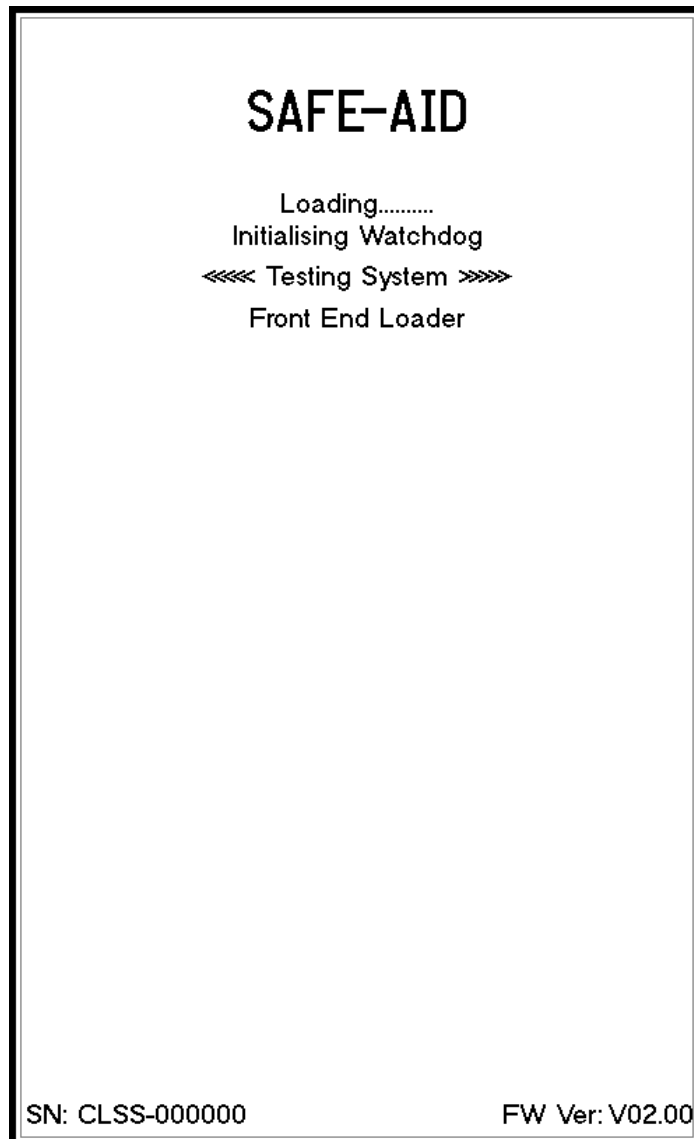


FIGURE 1

3. WORKING SCREEN – FIGURE 2

Once the system has done its diagnostics test the working screen will be displayed (Figure 2). This screen is where all the operator settings can be accessed.

The three light bars on the top represent your proximity to your target weight.

GREEN - 0% - 89%
AMBER - 90% - 99%
RED - $\geq 100\%$

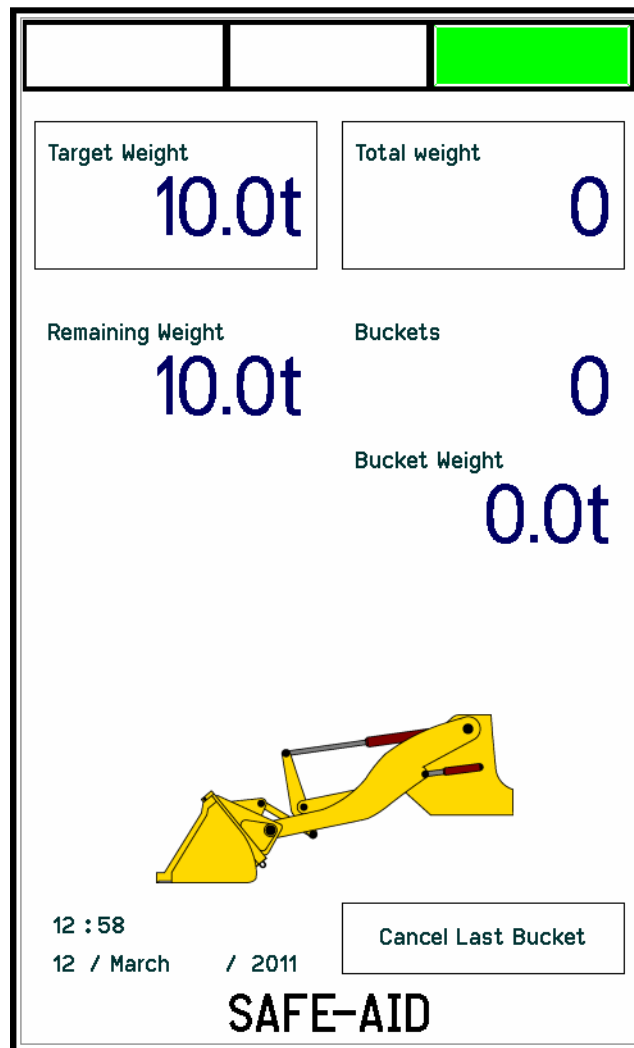
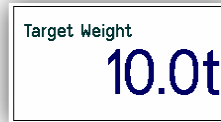


FIGURE 2

There are six places on the operating screen that can be pressed to do functions, not all operator enabled and if a option that is not operator enabled is depressed a password will be required.

4. TARGET WEIGHT – FIGURE 5 & 6



The **Target Weight** is the weight required by you and this can be set from 0.1 to 999.9 metric tons. To select the required weight press the **Target Weight** box and **Figure 5** will appear. If you would like to edit the Target Weight press **Yes** if not and you want to go back to the working screen press **No**.

If you have selected **Yes** the number keypad (**Figure 6**) will be displayed. Using the keypad input the required target weight and press the **Enter** key. If you have pressed the wrong numbers press the **Clear** key and the previous Target Weight will be displayed.

When setting a new Target Weight the Total Weight is automatically reset to zero.

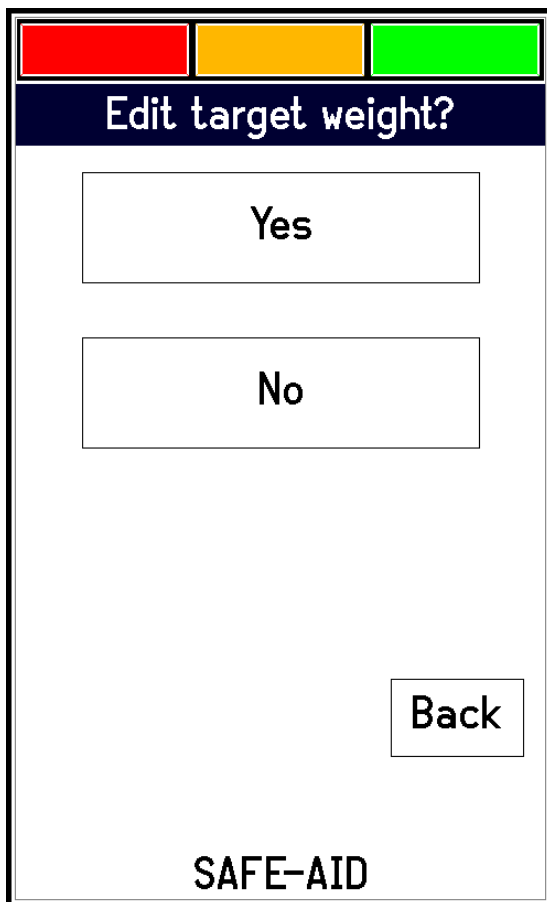


FIGURE 3

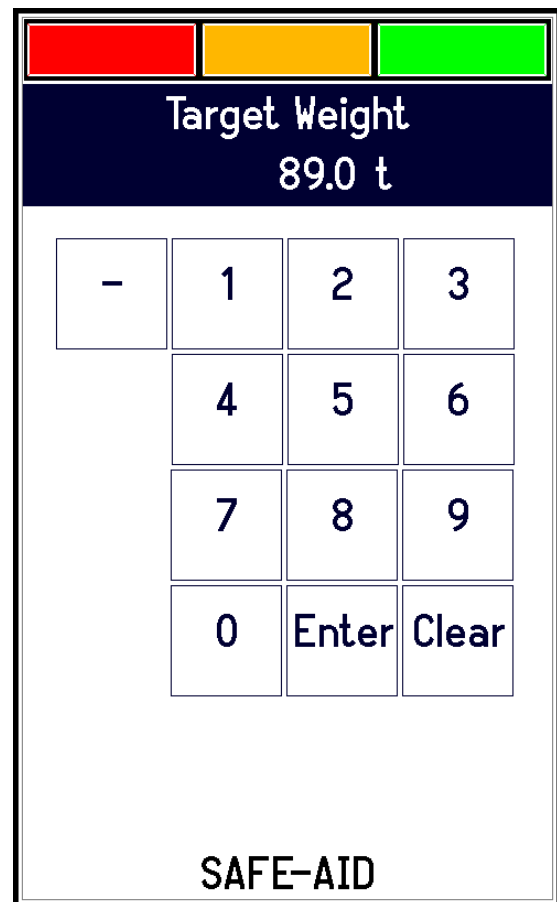
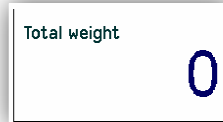


FIGURE 4

5. TOTAL WEIGHT – FIGURE 5



The **Total Weight** is the total weight lifted after setting your new **Target Weight**. The Total Weight is automatically zeroed when starting a new Target Weight.

If you need to clear your Total Weight then press the **Total Weight** box and Figure 7 will be displayed. To clear the Total Weight press the **Yes** key this will automatically clear your total weight and take you back to the working screen. If you do not want to clear the totals and want to go back to the working screen press the **No** key.

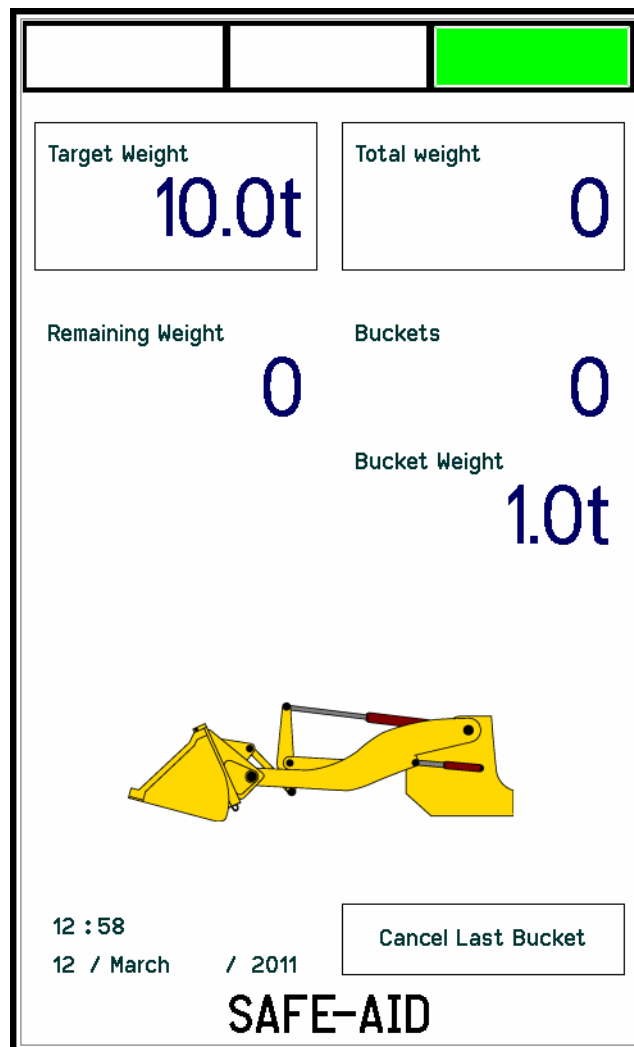


FIGURE 5

6. BUCKET WEIGHT - FIGURE 3 & 4

Bucket Weight
0.0t

The **Bucket Weight** is the actual weight in the bucket excluding the weight of the bucket it is permanently displayed and is the actual load. If the Bucket Weight is showing a weight and there is no load in the bucket a zero can be done by pressing on the bucket weight. Figure 3 will be displayed. Press **Tare Bucket** to set the bucket weight to zero or if you want to reset the tare press **Reset Tare** and this will set system back to the original calibrated zero value. Once you have pressed tare the **Bucket Weight** will be replaced with **Tare Weight** (Figure 4).

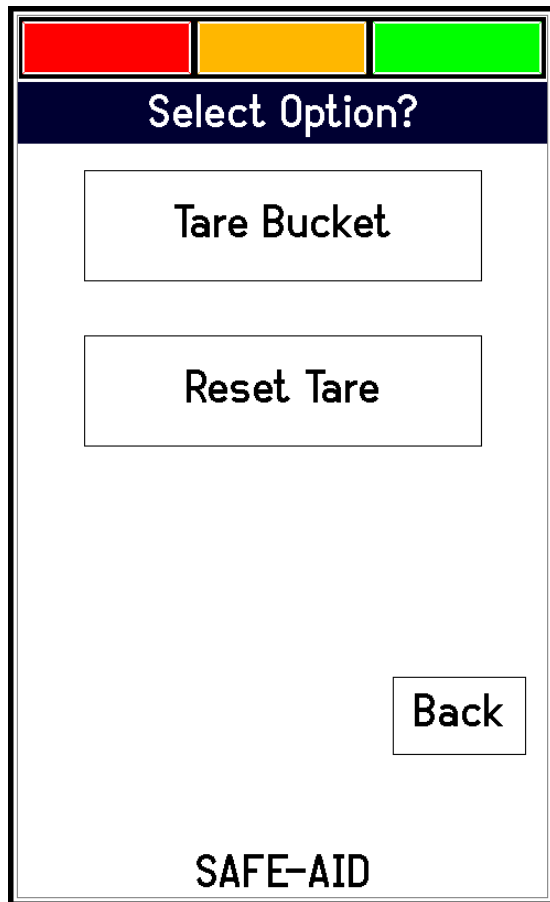


FIGURE 6

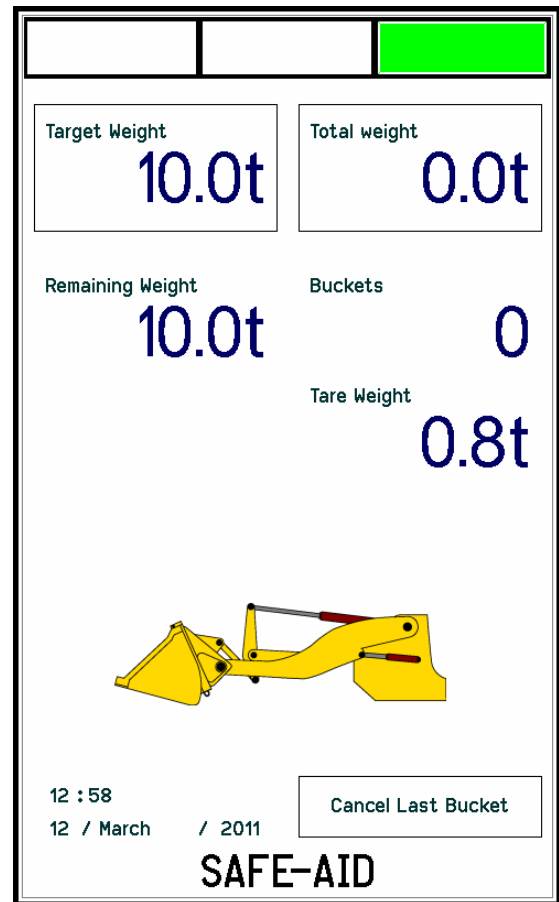


FIGURE 7

7. REMAINING WEIGHT

Remaining Weight
10.0t

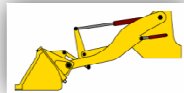
The **Remaining Weight** is the difference between your **Target Weight** and your **Total Weight**. Using this and the **Cancel Last Bucket** feature allow you to get accurate when getting to your required target as you can see exactly what is required and you can load or unload the bucket until you have the exact weight required.

8. BUCKETS

Buckets
0

The Buckets is the total number of buckets that have been used to get to your Total Weight. This is reset when either resetting your **Target Weight** or **Total Weight**. Using this and the **Cancel Last Bucket** feature allow you to get very accurate when getting to your required target as you can see exactly what is required and you can load or unload the bucket until you have the exact weight required.

9. GRAPHIC



The bucket graphic displays the positioning of bucket roughly with it tipping at the **Weight Capture Point**.

Pressing on the graphic for 6 seconds will get you into the system setup mode. This is password protected and will require a manufacturer password.

10. CANCEL LAST BUCKET

Cancel Last Bucket

The cancel last bucket feature is used if you have gone past the Weight Capture Point and before you empty the bucket you need to change the amount you have in the bucket. This feature removes the amount from your Total Weight, adds back to your remaining weight and reduces your Buckets by one.

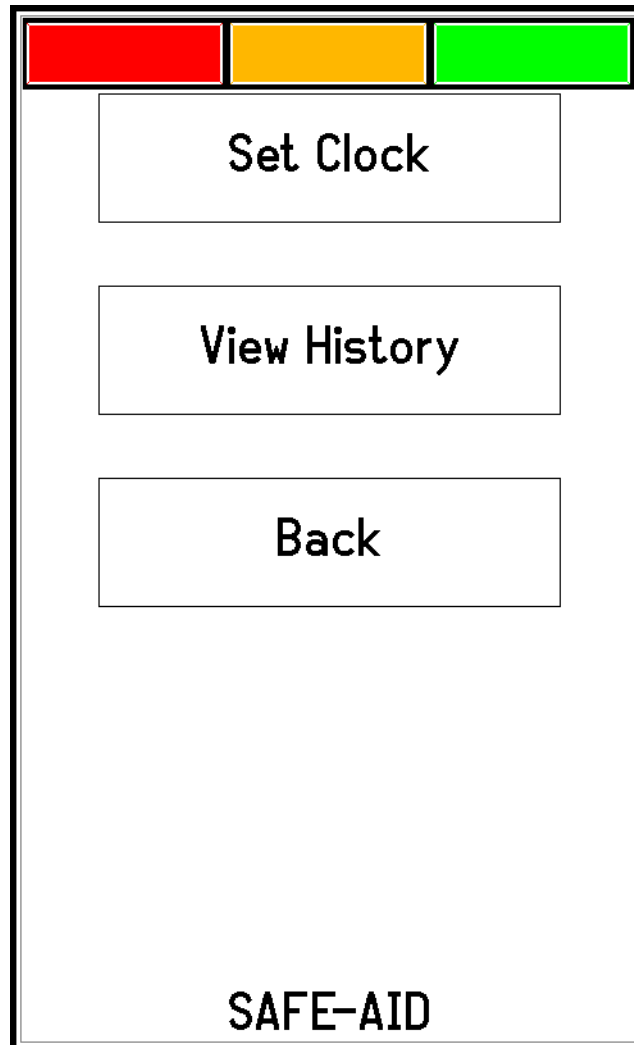
11. TIME AND DATE

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This is the current time and date and should be validated before starting each day.

By pressing on the time and date you are able to enter the menu to set the date and time and view logged data. If you have a supervisors password you are able to clear logged data if necessary.

There are two options when entering this setting:



SET CLOCK - Figure 9 & 10

By pressing on the number you need to correct a number keypad screen will be displayed use this keypad to enter the correct data.

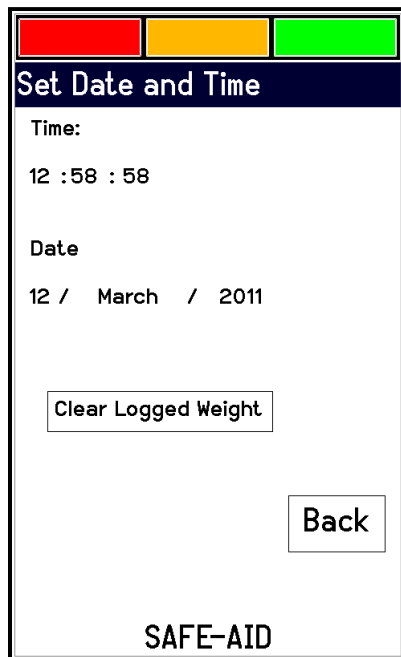


FIGURE 9

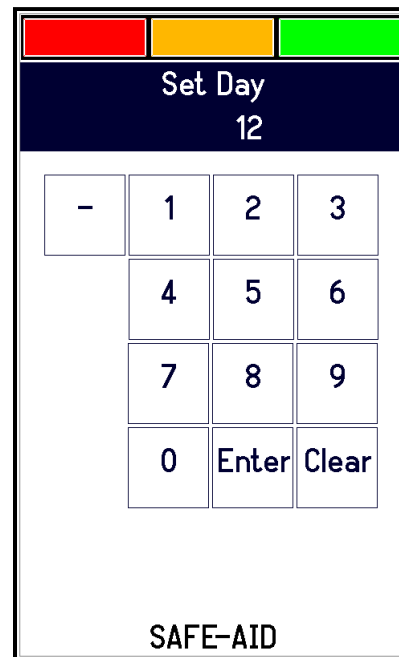


FIGURE 10

VIEW HISTORY- Figure 11

By pressing on **View History** you are able to see the last **31** daily totals. This is a view only screen and the data can only be deleted by entering the **Set Clock** screen and **Clearing Logged Weight** (supervisor password protected). Once viewed press **Back** to return to menu.

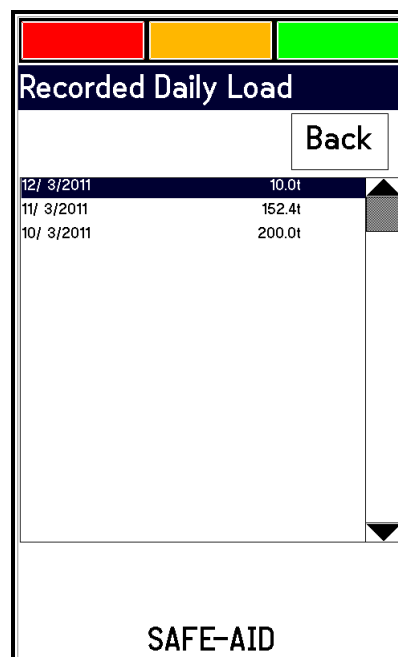


FIGURE 11

12.TOUCH SCREEN CALIBRATION – FIGURES 11, 12 &13

If the screen is not responding correctly to touch the touch screen may need to be calibrated.

Switch the TS 7000 system power off then power up the TS 7000 and wait for the splash screen (Figure 11) to appear.

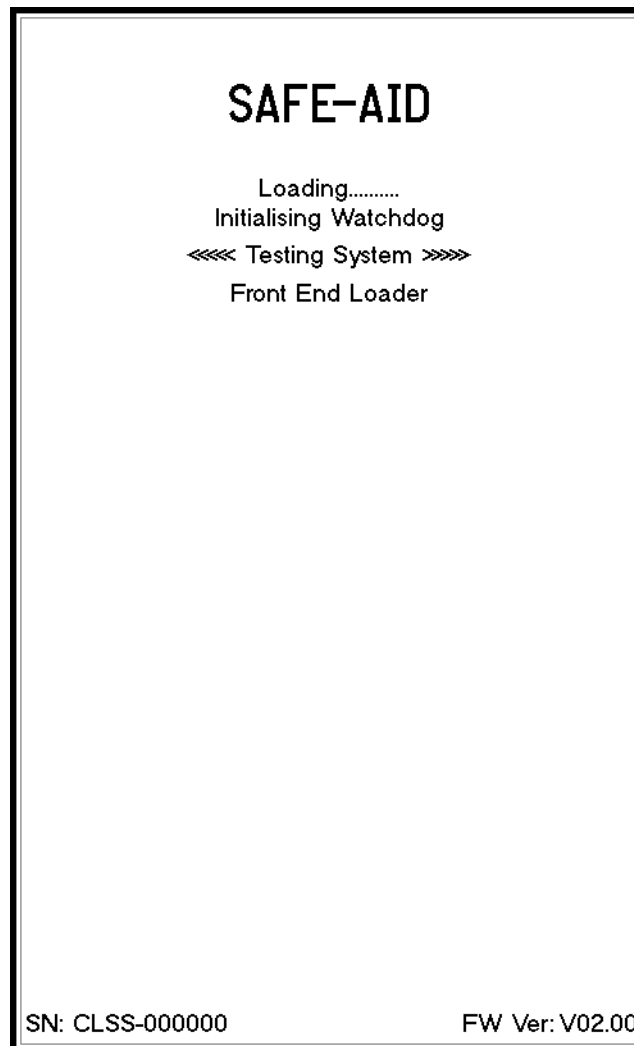


FIGURE 11

While the splash screen is on press and hold the screen for five full seconds in the centre until the touch calibration is activated and loaded (Figure 12).

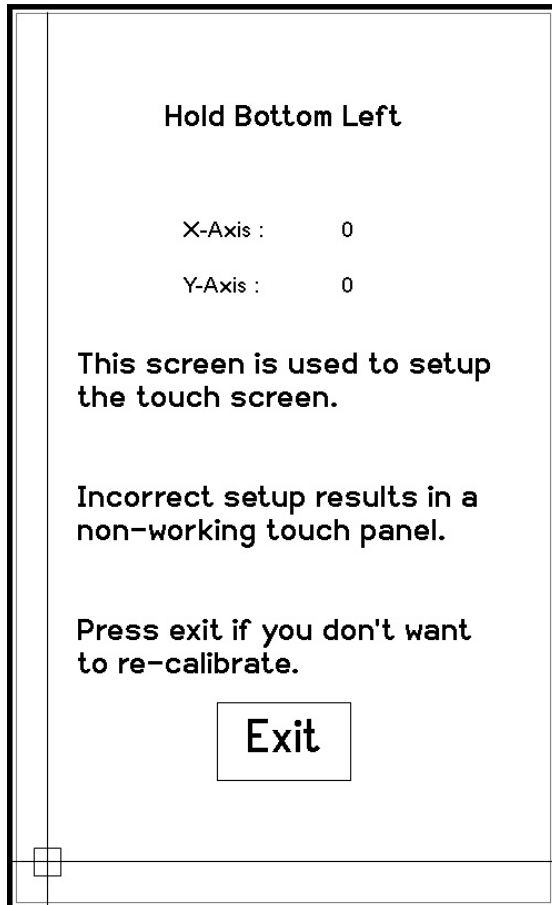


FIGURE 12

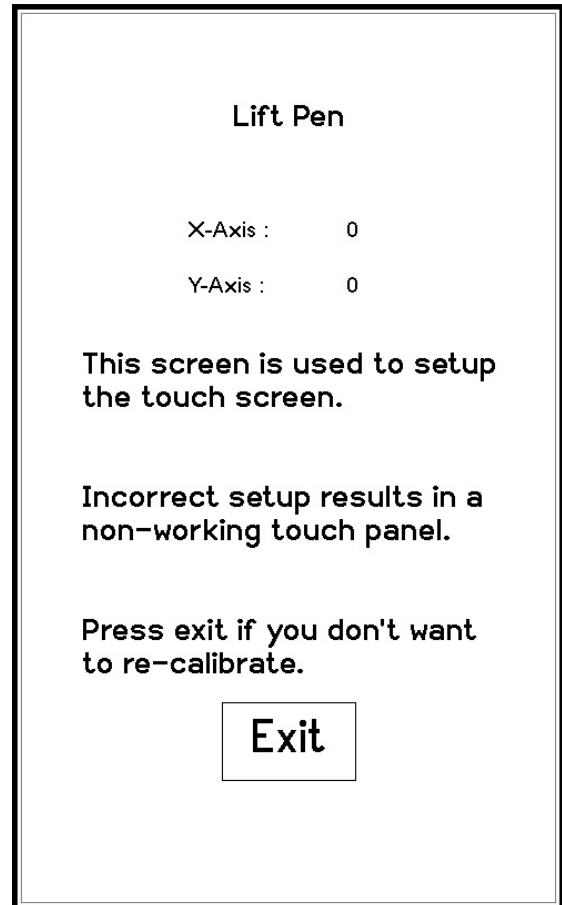


FIGURE 13

If the calibration screen has been entered by accident and touch calibration is not necessary press the **Exit** button without pushing anywhere else on the screen. This takes you out of the touch screen calibration and back to the normal operations.

If touch calibration is required follow the below procedures.

Press and hold finger where the two lines meet inside the small box (Figure 12 bottom left hand corner). Calibration works fine when using a finger but for better results use a pen taking care not to press too hard or you will damage the screen.

Hold finger/pen in this area until prompted to lift (Figure 13). The software will then ask for three more touch zones resulting in co-ordinates for all four corners of the screen.

Once calibration is complete the software automatically goes to the working screen.

CONTACT DETAILS

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Installed By:

Notes:
