CONTENTS

1 GENERAL

1.1 WEIGHING INTRODUCTION:

The WDU 2001 digital indicator is state of the art in weighing technology. The unit features a High -speed microprocessor to deliver an unambiguous weight reading. The WDU 2001has been designed specifically to give reliable and stable readings. The Digi - Lock feature gives a more accurate weight reading and is operator friendly. This allows the operator not to see any unwanted weight readings as the display is only activated when the Weigh button is pressed. The display locks and holds the weight reading for 6-8 seconds and the display then goes into sleep mode.

Features include:

        All electronic workings
        Splash proof construction
        Large LED display
        Digi - lock holds and locks correct weight readings
        Zero maintenance key trims small deviations at zero
        Tare key
        Totalizing key

2 SYSTEM OPERATION

2.1 GENERAL
The WDU 2001 weighing system works on the principle that the lift truck hoisting hydraulic pressure is directly proportional to the applied load on the forks.

This hydraulic pressure is converted to an electronic signal that is shown on the display directly as load from the forks or bucket.

It is important that all weighing be carried out in a repeatable fashion. There are stickers on the mast and carriage to assist the operator in weighing at the same location each time a weigh cycle is used.

2.2 OPERATION OF THE SYSTEM
There are two (2) phases for correct operation of the WDU 2001 weighing system

• ZERO phases.
A weighing operation designed to check and reset any minor variations with no load on the forks or in the bucket.
• WEIGHING phase.
An operation designed to acquire the weight of the load and lock it on the WDU 2001display.

Typical operation of the system is as follows-

1. Press the on\off switch to power up the display (preferably with the motor of the vehicle running
2. Perform zero cycle (no load on the forks or in the bucket)
3. Weigh loads as required following correct procedure (2.3) "weighing cycle"
4. Periodically re-check system zero ("0")

This instruction should appear on a sticker affixed to the vehicle as a guide for the operator.

2.3 LIFT TRUCK STANDARD WEIGHING CYCLE:
The following procedure should be adopted for each weighing cycle performed.

1. Raise the lift truck carriage until the →sticker located on the carriage aligns with the "1" on the sticker.
2. Now lower the carriage so that the → roughly lines up with the "2" on the mast.

At this point press the **Weigh** key on the display. A "beep" will be heard followed by the weight displayed on the WDU 2001 indicator. The weight will be displayed for 6-8 seconds The display will then go into sleep mode.

REMEMBER!!!
 • Raise to "1"
 • Lower to "2"
 • Press **Weigh** key (you will hear a beep sound)
 • The display will then lock and hold the displayed weight for 6-8 seconds
 • The display will then go into sleep mode until the **Weigh** key is activated

2.4 BOBCAT STANDARD WEIGHING CYCLE

The following procedure should be adopted for each weighing.....

1. Raise the bucket about 100 mm (4") above the sight mark. The bucket should be crowded fully back.

2. Lower the bucket to the sight mark, Press the **Weigh** key on the indicator. The display will lock and hold the displayed weight for 6-8 seconds.

3. The display will then go into sleep mode until the weigh button is activated.

2.5 AUTOMATIC WEIGHING CYCLE.

When a remote weigh switch is installed on your system you may weigh automatically. An automatic weigh cycle is completed as the forks (or bucket) are raised past a trigger point. The display will show the weight for a period of 8 seconds and then go blank until the weigh button is activated.

- • Maintain constant engine revs
- • Raise load smoothly past trigger point
- • On Bobcats crowd bucket fully back

2.6 ZERO CYCLE

The zero or "no load" reading of the display should be checked periodically, If the display does not read zero with no load on the forks or in the bucket, then a zero weigh cycle must be Performed.

NB: The forks or bucket should not be on the ground, as this will cause a weighing error.

TO CHECK ZERO.
Simply perform a standard weigh cycle without any load on the lift trucks forks or in the bucket.

HOW TO ZERO THE WDU 2001 WEIGHING SYSTEM
- • Raise to "1"
- • Lower to "2"
- • Press the **Weigh key**
- • The display will now show **" 0 "** (if not on **" 0 "** with no load)
- • Press the **Zero** key this will zero out minor deviations

N.B. Zero should be checked periodically to maintain system accuracy

2.7 TARE CYCLE
This feature is designed to enable the operator to tare out a pallet or container. This will then give a net weight of articles loaded on the pallet or in the container.

HOW TO TARE A PALLET OR CONTAINER ON THE WDU 2001 WEIGHING SYSTEM

Place a pallet or container on the forks of the lift truck and perform a standard weigh cycle with the article to be tarred.

- Raise to "1"
- Lower to "2"
- Press the **Weigh** key
- The display will now show the weight of the pallet or container to be Tarred (eg:300)
- Press the **Tare** key
- The display will now show **" 0 "**
- The Tare cycle is complete

HOW TO RELEASE THE TARE
Remove the pallet or container from the forks of the lift truck and perform a standard weighing cycle.

- Raise to "1"
- Lower to "2"
- Press the **Weigh** key
- The display will now show the negative weight of the removed pallet or container (eg: - 300)
- Press the **Tare** key
- The display will now show **" 0 "**
- The Tare release cycle is complete

2.8 TOTALIZING FUNCTION:

The **Total** is the addition of successive loads stored as a total. This running total will continue to accumulate the individual weights when the **Add** key is pressed.
The WDU 2001 will show the accumulated weights.

HOW TO ADD THE INDIVIDUAL WEIGHTS TO THE TOTAL

REMEMBER!!!
- Raise to "1"
- Lower to "2"
- Press the **Weigh** key
- The weight will be displayed for 6-8 seconds
- To **Add** weight to total, press the **Add** key while the weight is displayed
  You will hear a beep sound. This means the function has been performed
- The weight has now been added to a progressive total

The display will then go into sleep mode

TO SEE THE TOTAL

Press the **Total** key, the current total will be displayed in the following format

Eg: (450) flashing intermittently

TO RETURN TO NORMAL WEIGHING MODE

Press the **Total** key to return to normal operation (this will NOT clear the current total.)

TO CLEAR THE TOTAL

Press the **Total** key the current Total will be displayed flashing
Press the **Zero** key. The display will now go into sleep mode and the current Total cleared.

N.B. This function can be performed without doing a standard weighing cycle.

2.9 DESCRIPTION OF KEYS USED IN THE STANDARD WEIGHING OPERATION

  The **ZERO** Key is used to zero out minor weight deviations with no load applied to the system.

 The **TARE** Key is used to zero out pallet or container.

 The **TOTAL** Key is used to look at the accumulated weight.

 The **ADD** Key is used to add individual weights to a total.

  The **PRINT** Key is used only when a printer is attached to the system.

  The **WEIGH** Key is used to activate the weighing cycle.

DESCRIPTION OF INDICATION LAMPS:

Power indication lamp   indicates there is power to the display unit

Gross indication lamp indicates there is no Tare weight in the system

Net indication lamp   indicates the system is in general weighing mode

Zero indication lamp   indicates the system is on Zero "0" (no load on the forks)

Tare indication lamp   indicates there is a Tare weight entered in the system

Stable indication lamp indicates the scale is in a stable condition for weighing to be accurate