

GASON LOAD CELL EQUIPPED FERTILISER AND LIME SPREADER

INTRODUCTION

A Gason LOAD CELL EQUIPPED fertiliser and lime spreader is the next generation in accurate spreading equipment. The ability to closely monitor the application rate ensures the maximum benefit of fertilising is achieved.

Benefits of the Gason LOAD CELL EQUIPPED fertiliser and lime spreader include:

- 1) ability to accurately calculate application rates when used in conjunction with correctly configured hectare-meter
- 2) monitoring of spreader bin levels during spreading
- 3) ability to record total fertiliser or lime outputs during a period of refilling and use.

The Gason LOAD CELL SYSTEM consists of four high quality tool steel electroless nickel plated 5 tonne load cells, an IP67 rated, aluminium cased junction box and a highly functional digital indicator. These components are integrated into the Gason fertiliser and lime spreader through the use of an incorporated sub-frame.

APPLICATION RATES

By combining the readings of the monitor with those of a tractor hectare-meter, the accuracy of application rates may be monitored.

- 1) Measure the width of spread achieved by the spreader for the chosen material and appropriately configure hectare-meter to suit.
- 2) Commence spreading and monitor weight loss in relation to hectare-meter readings. After a suitable number of hectares have been covered a calculation can be undertaken to determine an application rate in kg/hectare.
- 3) Adjustments to increase or decrease application rates are made by further opening or closing rear door of spreader.

TRADE APPROVAL

Although system is accurately calibrated it should not be assumed correct for trade use.

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SYSTEM OPERATION



To take a weight reading turn monitor on, place fertiliser in spreader and read weight from screen.

NOTE: Weight readings will not be accurate when travelling. In order to take a weight reading during use, stop tractor and wait momentarily for spreader to settle.

1. POWER KEY

The power key turns the monitor on and off. When turning off, the button is held for three seconds as the monitor counts down on screen.

2. ZERO KEY

The zero key is used to return an empty spreader to zero if it has drifted from this value. Deviation of an empty spreader from true zero may be a result of residuals in spreader bin or environmental influences. Pressing the zero key once on an empty bin will return it to a zero reading.

3. TARE KEY

Tare is used to set a partially full spreader to zero. This has applications when refilling the spreader. Taring the weight remaining in the spreader will present a zero reading on screen

allowing the operator to monitor only the weight of material added at refill. When tared, the screen will display "NET" in the bottom left hand corner. The operator can return to the total or gross weight of the spreader using the "GROSS/NET" key.

4. GROSS/NET KEY

The gross/net key allows the operator to switch the display from gross spreader weight to net spreader weight providing a net reading has been established by taring.

5. PRINT KEY

Pressing the print key will print the current display if a printer is connected to the system.

6. FUNCTION KEY

The function key is denoted with an "F" and can be programmed to suit the application required by the operator. A suggested setup is the TOTAL function. This function allows a total weight to be accumulated for a period of use. Pressing the PRINT key whenever the spreader is full will add that weight to a running total that may then be reviewed. Reviewing is achieved by pressing the "F" key. The monitor will display the word COUNT followed by total items added, then the word TOTAL followed by the total weight for the period. The counter may be reset by a long hold of the PRINT key. This function should be used in conjunction with the TARE function when refilling a spreader that is not totally empty.

NOTE: See "Digital Indicator Quick Start Manual" provided with monitor for setup of function key to TOTAL function

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CALIBRATION

Gason LOAD CELL EQUIPPED fertiliser and lime spreader comes factory calibrated and ready for work in the field. Accuracy of calibration should be checked at regular intervals depending on use. A test mass exceeding 300kg and of accurately known weight should be used.

CALIBRATION PROCEDURE

A simple calibration procedure is as follows:
(NOTE: Further adjustments to calibration are outlined in monitor manual.)

1. Empty spreader entirely.
2. Enter Full Setup mode on monitor by holding "POWER" and "FUNCTION" keys at the same time.
3. Press "ZERO" key until "CAL" appears on screen.
4. Press "TARE" key until "ZERO" appears on screen.
5. Press "GROSS/NET" key once to move to first item on menu for zero calibration routine.
6. Press "PRINT" key to enter then "GROSS/NET". The current weight will be displayed on screen.
7. Press "FUNCTION" to initiate zero calibration. **Z.inP** will appear on screen until zero calibration is finished.

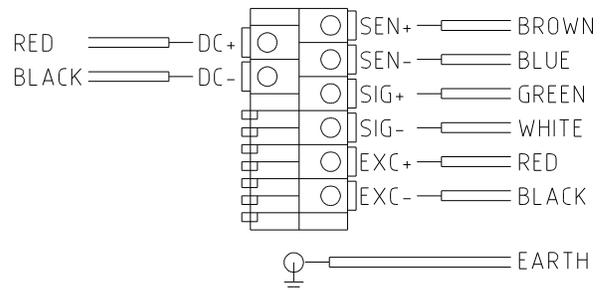
The system has been zero calibrated. A span calibration must now be undertaken.

1. Following above procedure press "TARE" to move to the next item menu. Screen will read "SPAN".
2. Press "GROSS/NET" to enter span calibration routine.
3. Press "PRINT" to begin.
4. Add test mass exceeding 300kg and of accurately known weight.
5. Press "FUNCTION" to show test mass weight. Adjust using "GROSS/NET" key and "PRINT" key.

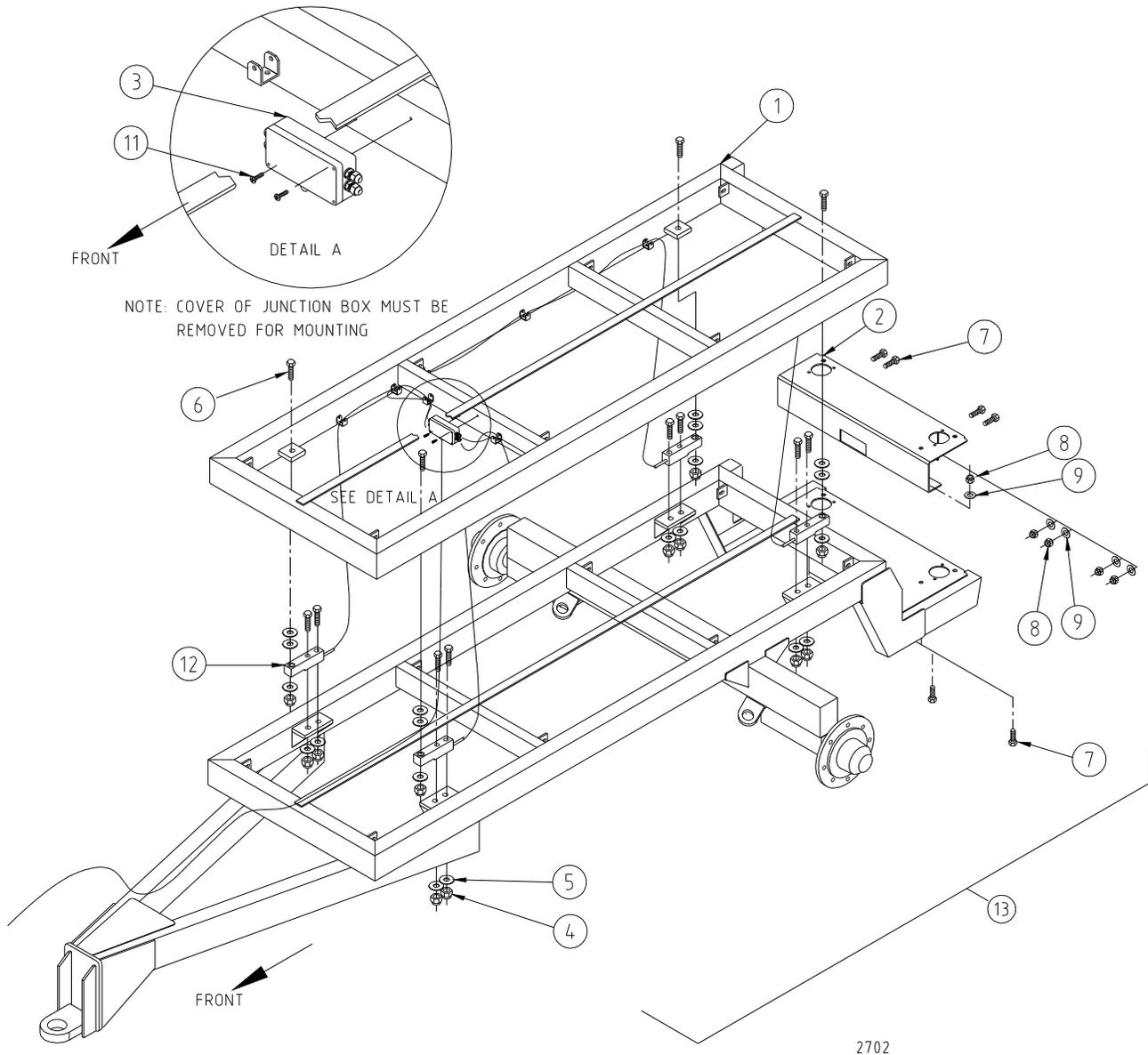
6. Once known weight of test mass is entered press "FUNCTION" to begin span calibration. **S.inP** will appear on screen.
7. Once finished, exit Full Setup by holding "POWER" and "FUNCTION" keys together again.

WIRING DIAGRAM

The wiring diagram below is for the rear of the digital indicator.

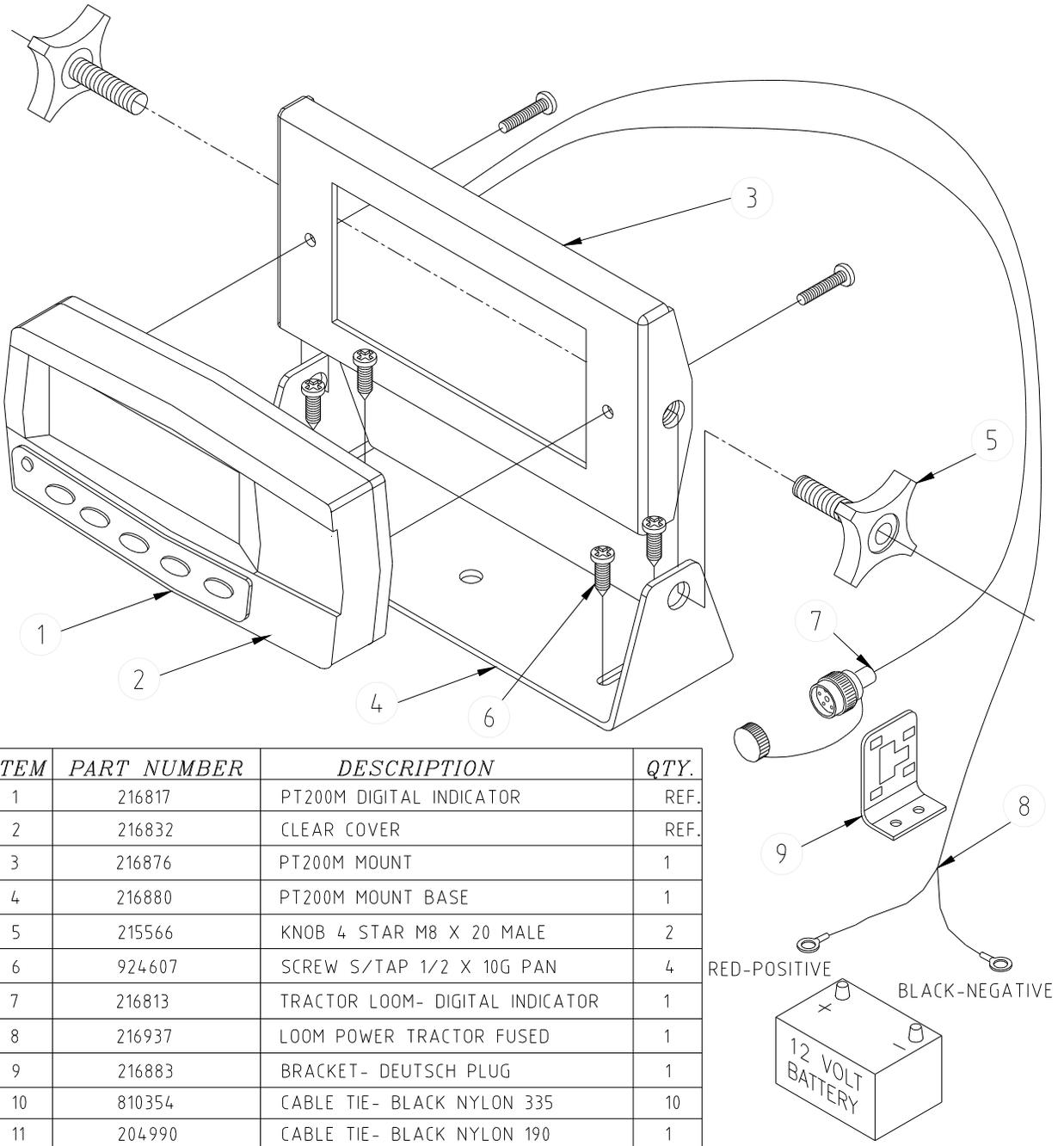


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ITEM	PART NUMBER	DESCRIPTION	QTY
1	216810	SUB-FRAME – 7T LOAD CELL SPREADER	1
2	216811	HYDRAULIC SPINNER RISER ASSY	1
3	216816	JUNCTION BOX- PT100SBE SUMMER BOX	1
4	903931	M20 NYLOC NUT	12
5	906801	M20 FLAT WASHER	20
6	913709	M20 x 100 BOLT	12
7	917705	M16 x 40 SET SCREW	6
8	903930	M16 NYLOC NUT	6
9	917415	M16 FLAT WASHER	6
10			
11	917007	M4 x 20 CAPSCREW	2
12	216815	LOAD CELL – PSB 5T	4
13	216875	LOAD CELL KIT-7T	REF.

DIGITAL INDICATOR KIT



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	216817	PT200M DIGITAL INDICATOR	REF.
2	216832	CLEAR COVER	REF.
3	216876	PT200M MOUNT	1
4	216880	PT200M MOUNT BASE	1
5	215566	KNOB 4 STAR M8 X 20 MALE	2
6	924607	SCREW S/TAP 1/2 X 10G PAN	4
7	216813	TRACTOR LOOM- DIGITAL INDICATOR	1
8	216937	LOOM POWER TRACTOR FUSED	1
9	216883	BRACKET- DEUTSCH PLUG	1
10	810354	CABLE TIE- BLACK NYLON 335	10
11	204990	CABLE TIE- BLACK NYLON 190	1