

Canlink 3500GRM

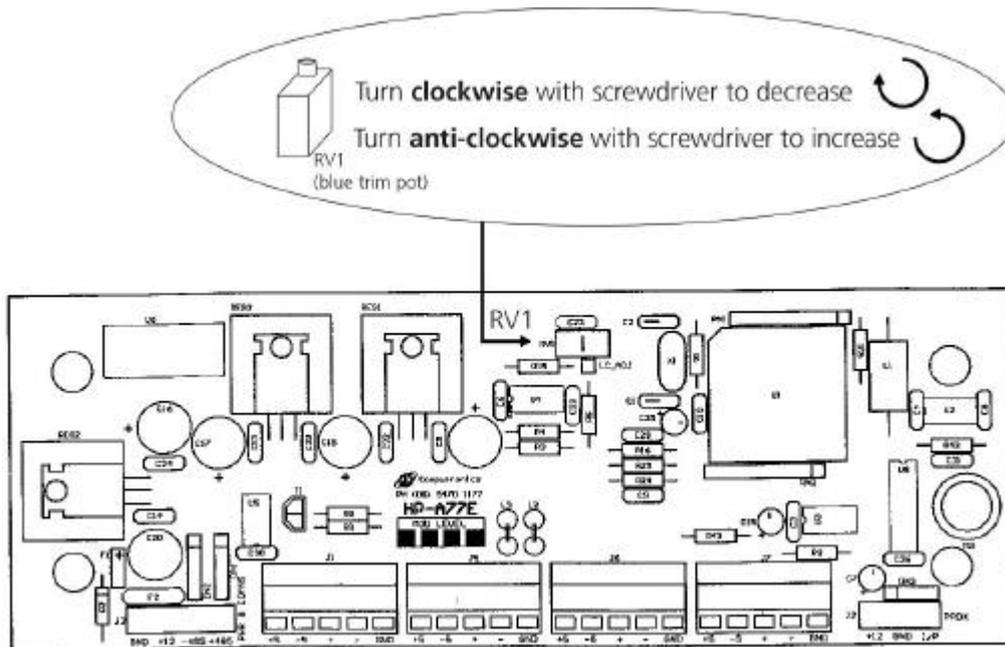
CALIBRATION QUICK GUIDE

Step 1 – Load Cell Offset (section 4.5 in manual)

The load cell offset, must be set in the junction box and checked to count up with weight applied.

Load Cell Offset

1. With installation complete, switch on canlink 3000, press "CAL", highlight "CALIBRATION" and press "CAL" again.
2. Set "ZERO" value to **zero** in "CALIBRATION" screen.
3. Take lid off junction box. Locate blue trim pot "RV1" on circuit board, see below.
4. Go to the "SENSOR" screen.
5. Using screwdriver turn gold coloured screw on "RV1" trim pot to adjust "ATOD" reading to approximately **100**. Turn anticlockwise to increase, turn clockwise to decrease "ATOD" reading. Readings will fluctuate slightly.



5. Apply weight to platform, make sure "ATOD" reading goes up. If not refer to section "WIRING IF LOAD CELLS MOUNTED UPSIDE DOWN" section 4.4 in manual.

Step 2 - Load Cell Zero & Weigh Scale Calibration (section 6.1 and 6.5 in manual)

Load Cell Zero

1. Switch on canlink 3000, start conveyer and enter "CALIBRATION" screen as in step 1 above.
2. Observe "LOAD CELL LEVEL".
3. Run Harvester empty for 20 seconds.
4. Press "ZERO" next to "UPDATE" at bottom of screen to make load cell "ZERO" same as "LOAD CELL LEVEL".

Weigh Scale Calibration (weight platform)

1. Stop belt and place a known weight (less than 10kg) on the weigh platform of belt directly above the load cell.
2. Press "CAL" then highlight "SENSOR" and press "CAL" (takes you to "SENSOR" screen).
3. Enter actual weight on weigh platform into "ACTUAL".
4. Press "UPDATE" at bottom left of screen for **3** seconds. Monitor will calculate new weigh scale factor. See example below.

Example:

Actual weight: 7 kg
 Raw value: 500
 Weigh scale: $7 \div 500 = 0.014$

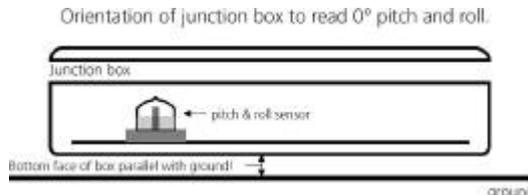
Note:

"AtoD" is the raw reading from yield sensor, ranging from 0 to 4096.

Step 3 – Zero Pitch & Roll Sensor (section 6.3 in manual)

Zero Pitch & Roll

1. If mounted junction box and conveyer are at an angle to ground when machine on level ground, make bottom face of junction box parallel with ground. Either take junction box off machine and put on ground (see below) or tilt machine. If junction box and conveyer are parallel with ground when machine on level ground go to step 2.
2. Press "CAL", highlight "DISPLAY" and press "CAL" again. Press "SHOW TEST SCREEN" for "... DIAGNOSTIC SCREEN".
3. Press "ZERO" at bottom left of screen. Pitch & roll figures will zero.
4. Remount sensor and check using the same diagnostic screen that pitch & roll readings are correct.



Step 4 – Divider Calibration (section 6.1 in manual)

For higher accuracy the canlink registers and sums the weight of product several times while it travels over the weigh platform. The number of times the product was weighed is the divider factor. The divider factor reduces the summed or accumulated weight to the product weight.

Divider Calibration

Initial

1. Mark the belt at the beginning of the weigh platform.
2. Move belt forward manually and begin counting the number of target disc teeth passing the belt sensor.
3. Stop counting when the mark on the belt reaches the end of the weigh platform. Write down result (typically 40).
4. Enter the number of teeth into "DIVIDER" and **do not press "UPDATE"!**

Final

1. Reset the "LOAD" reading in the main screen to zero.
2. Start harvesting and **DO NOT RESET THE LOAD VALUE**. Continue harvesting and when stopped, weigh the harvest **without resetting the load value!**
3. Compare load reading on canlink (main screen) with harvested actual weight. If the same then the initial value for divider was correct, no further calibration needed. If different go to step 4.
4. Enter the actual harvested weight into "ACTUAL" ("CALIBRATION" screen) and press the "UPDATE" softkey for **3 seconds**. The divider value will now be updated.

NOTE :

Changing the "DIVIDER" will from that moment on change the way the "LOAD" value in the main screen accumulates.

Step 5 - Pitch & Roll Correction Calibration

Pitch & Roll Calibration

1. Go to "SENSOR" screen.
2. Enter 0.3% into "ROLL CORRECTION" and "PITCH CORRECTION" as the standard correction factor.
3. If junction box tilted to read pitch (see below) and product rolls then change "PITCH CORRECTION" factor.
4. If junction box tilted to read roll (see below) and product rolls then change "ROLL CORRECTION" factor.

Diagrams below show the orientation of the junction box to read pitch and roll.

