



REFLEX ACT

QUALITY CHECK PROCEDURE



MARCH 2007

REFLEX ACT

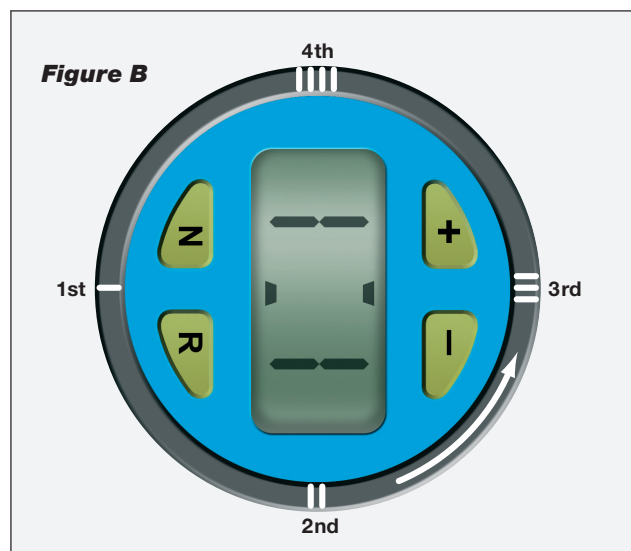
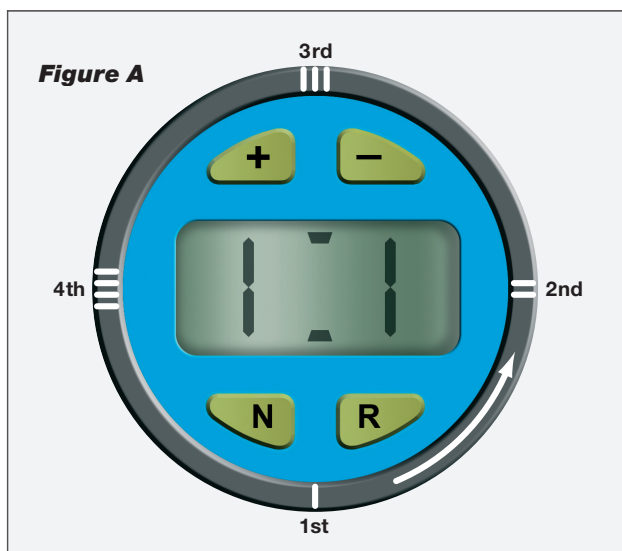
Each Reflex ACT is a fully sealed digital survey instrument comprising of a triaxial accelerometer pod, operating software and battery. Each Reflex ACT unit is calibrated prior to dispatch, and bottom of hole orientation is correct to 0.5 degree.

The Reflex ACT does not suffer from intermittent calibration errors, it is either calibrated correctly or requires maintenance. Being a digital item it is important that the accuracy of each Reflex ACT can be determined on site quickly and easily.

Calibration Check Procedure

The calibration check procedure requires the operator to use the tool in the same manner as they would when using the tool in the field. This calibration check mimics the tools operation whilst drilling and merely recreates the activity in plain site of the person performing the test. When performing this test please remember that the tool records the orientation of the tool in memory at the end of every minute after the tool is armed.

- 1) Reset the Reflex ACT as per normal use by pressing and holding the "N" button until "888" appears on the screen. When "888" appears start the stop watch.
- 2) Lay the tool at an inclined angle in a stationary position and make a single mark at the base of the bezel indicating bottom of hole. When "888" flashes on the screen of the tool it indicates that an orientation has been taken, this will coincide with approximately 1 minute on the stopwatch.
- 3) After the first orientation has been taken roll the Reflex ACT approximately 90 degrees and repeat the procedure above. In this case mark the bezel with 2 marks.
- 4) Continue steps 2 and 3 until you have recorded 4 minute readings each approximately 90 degrees apart. Stop the stop watch at the end of the fourth minute.
- 5) Press the "R" button and then "+" to enter 1 minute, press "R" again and roll the tool as per normal operating procedure until the full box appears in the LCD screen. With the formation of a full box the 1st mark should be at the bottom indicating that the tool has successfully reoriented the first mark (figure A).
- 6) Press the "R" button again and then "+" button once more to scroll to the second minute. By recalling the 2nd minute we are asking the tool to show the orientation it took at minute number 2. Press "R" again and roll the tool until a full box is formed. With the formation of a full box the 2nd mark on the bezel should be at the bottom, indicating that the tool has successfully reoriented the second mark (figure B).
- 7) Repeat step 6 for the remaining 3rd and 4th minutes.



If the tool passes this test it is operating correctly. Please contact Reflex for training assistance because incorrect use of the tool is the most likely cause of core misalignment.