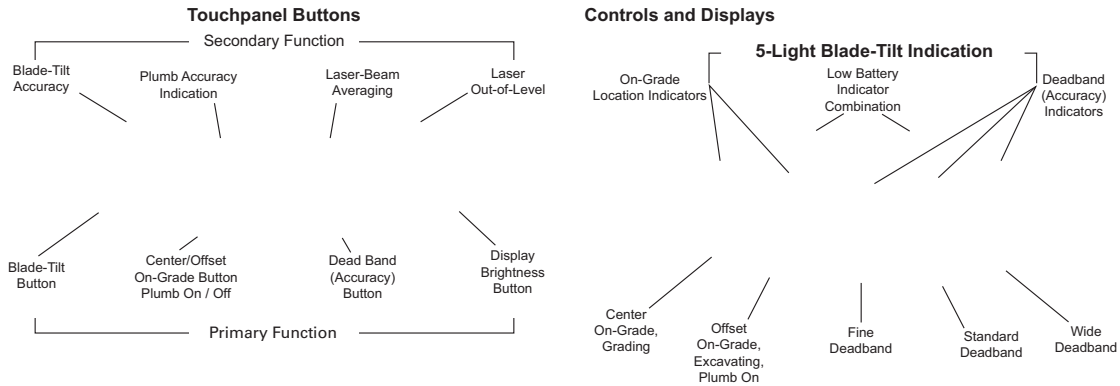
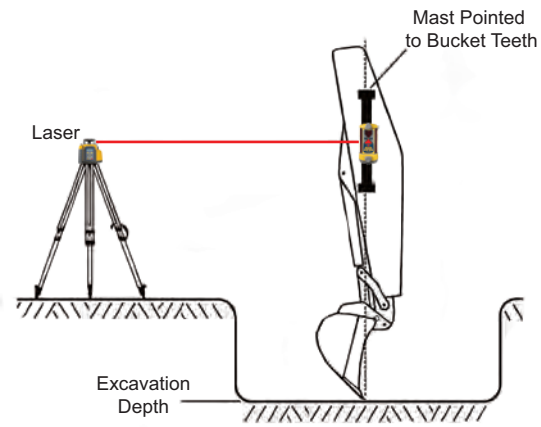


Spectra Precision LR50 Display Receiver on an Excavator



1. Excavate and measure in the trench until you get an on-grade measurement.
2. Place the bucket in the “reference position” at the correct cut depth.
3. Using either the handheld detector or the LR50 roughly mark the on-grade position on the dipper stick.
4. Place the magnetic mount on the dipper approximately vertical (plumb) so that the middle of the magnetic mount is roughly at the mark made in step 3.

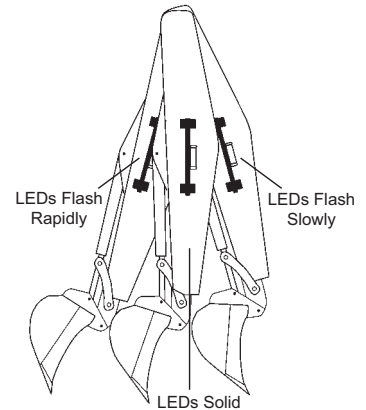
Offset On-Grade Selected, Plumb On Offset On-Grade LEDs Used



- Turn on SPL - LR50 receiver. (If after initialization any other status LED's are on, the blade tilt sensor is on. To turn the blade tilt sensor off, push the first switch on the left.)

Confirm unit is in excavation mode by pressing the second switch from the left. The second LED from the left should flash. If the first LED flashes, quickly push switch again.

- Place the SPL - LR50 receiver on the magnetic mount. Once the LR50 is in the beam (giving a grade display) and if the display is flashing, adjust the dipper until the display stops flashing. If the display is flashing fast, move the dipper in, if flashing slow move the dipper out. When the display is not flashing (solid), the dipper is plumb. (Reference illustration to right).



- Once plumb, adjusted to the smallest deadband and move the receiver up or down until an on-grade is indicated.

For the demo, select the widest deadband and start to excavate. Take grade readings with the bucket in the grade checking position and the grade display LEDs solid.

Note: When the receiver has been indicating a grade position (in the beam) and will be removed from the beam, the top or bottom LED's will flash sequentially in the direction the receiver needs to be moved in order to go back into the beam.

Alternative setup

- To determine the setup length, add the cut distance "C" to the heights of the laser "HI".
- Measure the set up length from the lowest point of the bucket when it is in the reference position up the dipper and make a mark on the dipper.
- Place the magnetic mount on the dipper so that the middle of the magnetic mount is roughly at the mark made in step 2.
- Attach and position the receiver so the offset on-grade symbol on the back label matches the mark of step 2.
- Continue with step 5 to 8 by disregarding step 6 and 7.

