

Topcon RL-H3C Laser Level

Calibration and adjusting calibration

Laser Grade Company
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Horizontal calibration of the laser beam can be checked by the user.

(Checking)

1. Set up a tripod approx. 50m (160ft.) from a laser detector mounted on a grade rod or straight board mounted on a wall. Use a carpenter's level to make sure the detector is perpendicular (vertically straight up and down). Mount the RL-H3C laser on the tripod, facing the X1 (panel) side toward the detector.
2. Turn the RL-H3C on and allow auto-leveling to complete.
3. Put the laser detector in fine detection mode by pressing the On-Grade precision switch.
4. Using the laser detector, mark the center position of laser beam on the wall. (X1)
5. Turn off the instrument. Loosen the tripod screw, rotate the instrument 180 degrees and re-secure it on the tripod. The X2 side of the instrument now faces toward the wall. **When rotating the laser, avoid changing the height!**
6. Turn the RL-H3C on again and allow auto-leveling to complete.
7. By using the laser detector, mark the center position of the laser beam on the wall. (X2)
8. If the difference value of the marked two beam heights (difference value of X1 and X2) are greater than 7mm (.275"), adjust the RL-H3C as described below. **If the value is greater than 62mm (2 3/8") contact Laser Grade Company.**
9. Check the Y1 (handle) side the same way.



X1
Panel Side
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(To Calibrate the X axis)

1. Face the X1 (panel) side of the RL-H3C laser toward the detector, press the Power switch while pressing the height alert OFF switch. Then the height alert OFF lamp will light and the manual mode ON lamp will blink.
2. Press the height alert OFF switch to calibrate the X axis. The manual mode ON lamp will light. When auto-leveling finishes, the laser beam will emit.
3. Using the detector, mark the on-grade height of the laser beam on the wall.
4. Rotate the laser 180 degrees to face the X2 side toward the wall.
5. In the same way as step 3, mark the on-grade height of the beam on the wall.
6. By pressing the manual mode ON switch (laser beam moves up), or Power switch (laser beam moves down), adjust the on-grade height of the beam until it is precisely centered between the marks made in steps 3 and 5.
7. Press the height alert OFF-switch to memorize the new laser beam calibration. The height alert OFF lamp will blink. Power will shut off automatically when the calibration memorization is complete.

(To calibrate the Y axis)

1. Face the Y1 (handle) side of the RL-H3C laser toward the detector, press the Power switch while pressing the height alert OFF switch. Then the height alert OFF lamp will light, and manual mode ON lamp will blink.
2. Press the Power switch again. The auto leveling lamp will light.
3. Press the height alert OFF switch to calibrate the Y axis. The auto leveling lamp will light.
4. Using the laser detector, mark the on-grade height of the laser beam on the wall.
5. Rotate the laser 180 degrees to face the Y2 side toward the wall.
6. In the same way as step 4, mark the on-grade height on the beam on the wall.
7. By pressing the manual mode ON switch (laser beam moves up), or Power switch (laser beam moves down), adjust the on-grade height of the beam until it is precisely centered between the marks made in steps 4 and 5.
8. Press the height alert OFF switch to memorize the new laser beam calibration. The height alert OFF lamp will blink. Power will shut off automatically when the calibration memorization is complete.

To discontinue calibration of the laser, press the Power switch while pressing the height alert OFF switch.

When calibration is memorizing, if the height alert lamp continues to blink quickly and power does not shut-off automatically, please contact Laser Grade Company

