

5.2XL 5-Point & CrossLine Laser User Guide



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Introduction

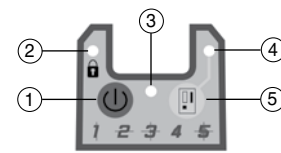
Thank you for choosing the Spectra Precision® Laser 5.2XL from the Trimble® family of precision products. This simple-to-use tool allows you to perform leveling or vertical plumb work. You can also use the laser outdoors for leveling and aligning applications (optional HR250 receiver required).

Before using the laser, be sure to read this operator's manual carefully. Included in it is information about setting up, using, and maintaining the laser. Also included in this manual are CAUTIONS and Notes. Each of these words represents a level or danger or concern. A CAUTION indicates a hazard or unsafe practice that could result in *minor* injury or property damage. A Note indicates important information unrelated to safety.

Your comments and suggestions are welcome; please contact us at:

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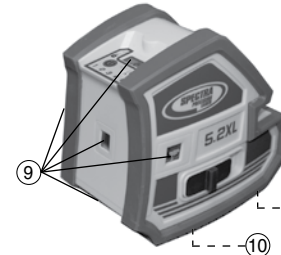
Features



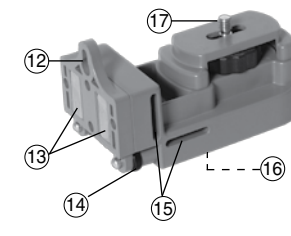
1. Power / Mode button
2. Manual Mode / Compensator Lock On LED
3. Power On / Low Battery LED
4. Receiver Mode On LED
5. Receiver Mode Button



6. Laser Line Exit Windows - Horizontal and Vertical
7. Protective Rubber Bumper
8. Compensator Lock / Manual Mode Switch

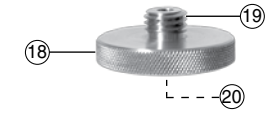


9. Laser Pointer Exit Windows (5)
Left, Right, Up, Down, Front
10. 5/8x11 Thread and 1/4x20 Thread
11. Battery Door



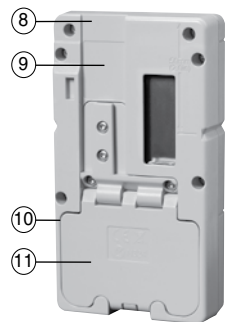
Universal Mount & Adapter

12. Nail Mounting Hole
13. Magnets
14. Fine Adjustment Knobs
15. Slots for Mounting Straps
16. 5/8x11 Thread and 1/4x20 Thread
17. 1/4x20 Mounting Knob - Sliding
18. Universal Mount Adapter - Mounts on Top for 360° Swivel or on Bottom to raise above obstructions or tall track
19. 5/8x11 Thread
20. 1/4x20 Thread



HR250 Receiver

1. Power and Audio Button – turns the receiver on/off and changes the audio to loud, soft, and off.
2. Marking Notches (both sides) – align with the on-grade portion of the photocell and are used to mark elevation readings. The marking notches are 50 mm (2 in.) from the top of the receiver.
3. Grade-Sensitivity Button— allows you to select the receiver's on-grade sensitivities, which include fine: 1.5 mm (1/16 in.) and medium: 3 mm (1/8 in.).
4. LEDs – show the position of the receiver relative to the laser beam (above grade, on grade, or below grade).
5. Front and Back Liquid Crystal Displays (LCDs) – show the power, audio, elevation, grade sensitivity and battery status.
6. Photocell – detects the laser beam when it strikes the receiver. If the photocell does not detect the laser beam for 30 minutes, the receiver shuts off automatically.



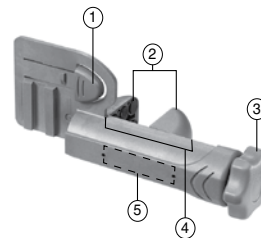
HR250 Receiver (cont.)

7. Audio Port – is the opening the sound comes out of.
8. Clamp-Tab Recess – is the area that the general-purpose clamp's release tab fits into.
9. Label – shows the serial number and manufacturing date.
10. Battery Housing – holds 2 AA alkaline batteries.
11. Battery Door – holds the batteries securely

General-Purpose Clamp

The C59 clamp allows the receiver to be attached to a survey rod or wooden pole.

1. Release Tab – allows the receiver to be locked onto or released from the general-purpose clamp.
2. Jaws – close/open so that the general-purpose clamp can be attached to or released from a survey rod or wooden pole.
3. Jaws Screw – controls the closing opening of the jaws.
4. Reading Edge – aligns with the receiver's on-grade marking notches.
5. Bubble Screw Holes – are where the optional 1277-6251S rod bubble kit is mounted.



Batteries

Installation/Removal

CAUTION: The batteries should be removed when storing the laser more than 30 days.



1. Release the battery door latch using your fingers, a coin, or a screwdriver. Open the door.
2. Install/remove the AA batteries. Insert the positive (+) end first to ease installation.
Note: When installing the batteries, be sure to note the positive (+) and negative (-) diagrams molded on the battery housing.
3. Close the battery door and latch it shut.

Disposal

Some areas have regulations regarding the disposal of batteries. Be sure to dispose of discharged batteries properly.

Basic Operation



1. Unlock the laser's compensator by sliding the switch to the LEFT.
NOTE: For added mechanism protection always lock the laser when not in use by sliding the switch to the RIGHT.
2. Press the POWER button, the POWER LED illuminates GREEN. To turn OFF the laser, PRESS & HOLD the POWER button for 3 seconds.
3. Each time the POWER button is pressed the laser beams will cycle through the following sequence: H Line→V Line→HV Lines→5 Points→All Beams
4. When the unit is tilted out of its self-leveling range the laser beams will blink 2 times per second.
5. The laser can be taken out of automatic self-leveling mode to perform slope work by locking the laser's compensator (slide the switch to the RIGHT). In this mode the LOCK symbol LED will illuminate GREEN, and the laser beams will flash 3 times every 30 seconds.
6. To operate the laser with the HR250 receiver press the RECEIVER button. The RECEIVER LED will illuminate GREEN.
7. When the batteries need changed the POWER LED illuminates RED.
8. To turn OFF the laser, PRESS & HOLD the POWER button for 3 seconds.

Applications

General Leveling and Aligning

1. Place the laser on a flat surface. The laser must be level within its self-leveling range.
2. Adjust the position of the Line or Point Beams so they are at the desired positions.
3. Mark the position of the wall, elevation, floor or ceiling.

Installing and Plumbing a Wall

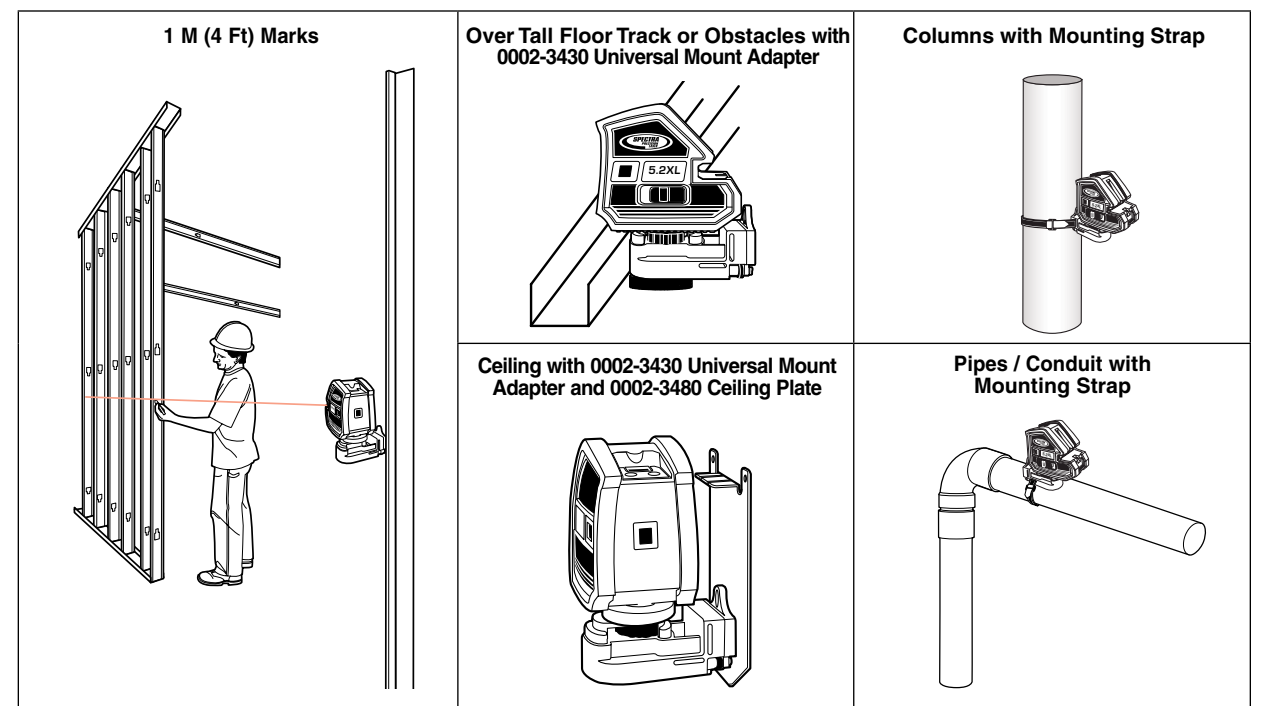
1. Place the laser so the Vertical Line Beam is positioned over the desired wall location (usually indicated by 2 floor marks).

NOTE: If the floor track is already installed the laser should be placed on the Universal Mount or Universal Mount Adapter so the Vertical Line can be positioned over the edge of the track.

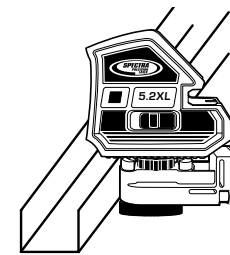
2. Use the Vertical Line Beam to position the top track.



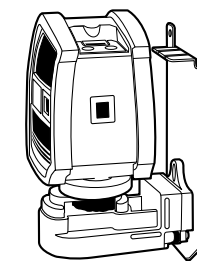
0002-3420 Universal Mount



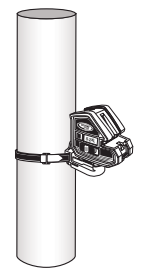
Over Tall Floor Track or Obstacles with 0002-3430 Universal Mount Adapter



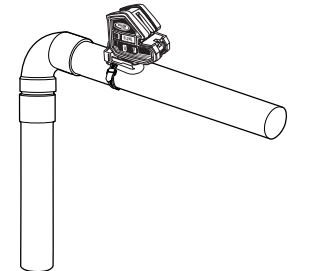
Ceiling with 0002-3430 Universal Mount Adapter and 0002-3480 Ceiling Plate



Columns with Mounting Strap



Pipes / Conduit with Mounting Strap



3. Use the Vertical Line Beam to position the floor track.
4. To locate the plumb point over a wall corner or other point place the Down Point Beam over the corner or mark. Use the Up Point to determine the top track corner location.

NOTE: If the floor track is already installed use the Universal Mount to position the Down Point over the corner. Add the Universal Mount Adapter if tall floor track is being used.

Installing a Ceiling

1. Measure up from the floor (or other reference mark) to the finished ceiling height.
2. Install the first piece of wall molding.
3. Slide the ceiling plate (0002-3480) behind the wall molding.
4. Attach the Universal Mount (0002-3420) and Universal Mount Adapter (0002-3430) to the laser and magnetically attach it to the ceiling plate so that the level beam is at wall molding height. Install the rest of the wall molding.
5. Lower the laser 5 cm (2.0 in.) on the ceiling plate so that the level beam is at the horizontal target elevation.
6. Install the ceiling's cross Ts and main Ts.



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