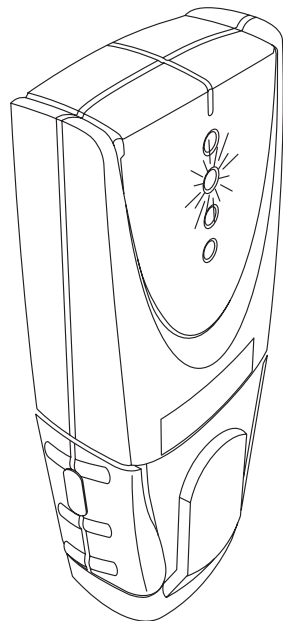


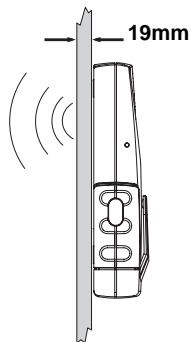
# SW-109R4 STUDTECH™



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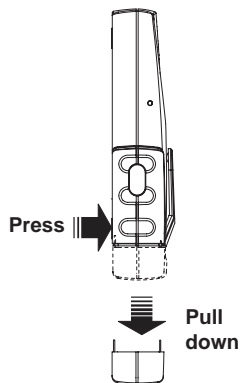
The Ryobi StudTech™ locates wood and metal studs in walls. It features a sleek, high-impact case and a built-in clip.

Use StudTech for depths up to 19 mm with ±6 mm accuracy.



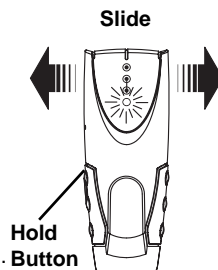
## INSTALLING THE BATTERY

- Pull down back of unit to release battery compartment.
- Slide 9-V battery into compartment, terminal side first, matching (+) and (-) terminals from battery to case.
- Replace the end cover. Alkaline battery life is approximately 30 hours.



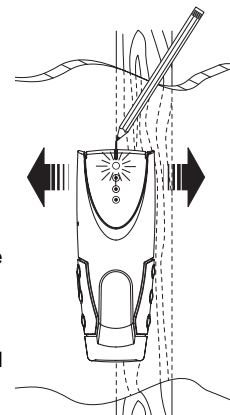
## CALIBRATION AND SCANNING

- With StudTech turned off, position the unit flat against the wall.
- Squeeze On/Off button and hold in.
- Turn on and slowly slide unit horizontally across the wall, right or left. Red light and "beep" indicates edge of stud.



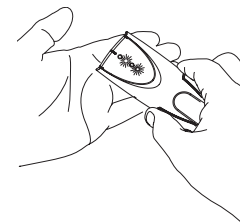
## CALIBRATION AND SCANNING

- When the top red LED is lit, the beep sounds, locating the edge of the stud. Mark this spot.
- Continue scanning beyond the marked spot until the top red LED goes out. Slide unit in reverse direction to locate other edge of stud.
- Mark this second spot. Middle of stud is centered between the two marks.



## VERIFYING IF THE UNIT WORKS

- Turn StudTech™ on in the air. If the LEDs light when you bring your hand up to the back, then the unit is working properly.



## OPERATING NOTES

Depending on the proximity of electrical wiring or pipes to the wall surface, the StudTech™ may detect them in the same manner as studs. Caution should always be used when nailing, cutting or drilling in walls, floors and ceilings that may contain these items. To avoid plumbing, electrical, etc., remember that studs or joists are normally spaced 406mm or 610mm apart and are 38 mm in width. Anything closer together or a different width may not be a stud, joist or firebreak. Always turn off the power when working near electrical wires.

## WORKING WITH DIFFERENT MATERIALS

The StudTech™ is designed for use on dry interior walls only. Three primary factors can affect sensing depth: Thickness, density and moisture content.

The StudTech™ is not designed to handle materials with inconsistent density such as:

- Ceramic floor tile
- Carpeting and padding
- Wallpaper with metallic fibers
- Freshly painted walls that are still damp (must dry at Least a week)
- Lath and plaster

Situations	Possible Causes	Solutions
No indications.	• No studs in that area.	• Move several inches to the left or right and start again.
Light starts blinking and unit beeps repeatedly.	• Over-the-stud calibration error. • Scan began on dense part of wall or over stud. • Unit not flat against wall. • Unit was rocked or lifted during scan.	• Release On/Off button, move over a few inches, press On/Off button, and start again. • On rough surfaces, place piece of cardboard on wall, scanning through it to help slide unit more smoothly. • Always hold StudTech parallel to stud or joist and move across it.
Indications in too many places.	• Detect other objects besides studs. • Electrical wiring and metal/plastic pipes may be near or touching back surface of wall	• Because studs are normally spaced 406mm or 610mm apart and are 38mm wide, beware of anything closer together or of a different width.
<p><b>⚠ WARNING:</b> To avoid risk of electrical shock, <b>ALWAYS</b> turn power off when working near electric wires. Avoid nailing, cutting or drilling in walls where electrical or plumbing may be present. Do not permit children to use this device. It is not a toy.</p>		



## WARRANTY

This product is a consumable item. Therefore it is warranted against defective parts and labor only and not misuse or deterioration of product through normal wear and tear for a period of 2 years from date of purchase.

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