JOHNSON®

Detector Usage Model No. 40-6770

1. Technical Specifications

Detecting accuracy	Fine	±0.039" (±1mm)
	Coarse	±0.098" (±2.5mm)
Turn-off time	5 minutes	
Operating voltage	DC9V	
Size	6-3/4" x 3" x 1" (0.266 x 0.118 x 0.029mm)	
Weight	0.55 lbs (0.249 Kg)	

Dust and rain resistant
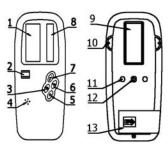
Illuminated Screen

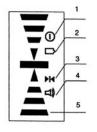Multi-functional double sides display

Buzzer for recognizing location

2. Components

(a) Structure

1. Display window
2. Level vial
3. Coarse/Fine detection button
4. Horn
5. Power button
6. Sound button
7. Back light button
8. Receiving window
9. Display window
10. Reference rabbet
11. Location hole
12. Threaded hole
13. Battery-box cap

(b) Display

1. Power symbol
2. Low battery symbol
3. Coarse/Fine detection symbol
4. Sound symbol
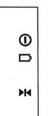5. Detecting position symbol

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3. Operation Guide

(a) Installation of battery
- Open the battery door
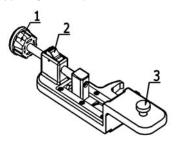- Put the 9V battery into the battery-box. Please note the polarity. Then close the battery door.

Note: Take the battery out if the instrument is not used for a long time.

(b) Turn on/off

- Press the power button. When Power symbol is displayed, the instrument is ready for coarse detection.
- When low battery symbol is displayed, change the battery.
- Press the power button again to turn off the instrument.

(c) Using the clamp

1. Adjusting bolt
2. Quick release button
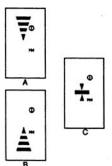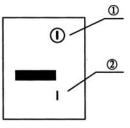3. Detector connecting screw

(d) Detection

1. Coarse detection

• Aim the receiving window at the rotating laser. Loosen the adjusting bolt and move the detector up and down to receive the laser signal transmitted by the rotating laser.

• When the detector displays like Fig. (A), move the detector slightly down as indicated by the arrow. When it displays like Fig. (B), move it slightly up as indicated by the arrow.

• When Fig. (C) is displayed, the detector is level with the rotating laser beam..

• Tighten the adjusting bolt and mark the position on the grade rod next to the rabbet. This mark will be the horizontal reference in the coarse mode.

2. Fine detection

1. power symbol

2. fine detection symbol

• Press coarse/fine detection button. The detector is ready for fine detection.
• Move the detector slightly up and down like the coarse detection procedure.
• When the detector displays as shown in the figure, it is level with the laser beam.

• Tighten the adjusting bolt and mark the position on the grade rod next to the rabbet. This mark will be the horizontal reference in the fine detection.

(e) Sound function
• If the detector is working in a situation where it is difficult to use the display function, the sound function can be used instead.
• Press the sound function button. The sound symbol is displayed and the detector is ready for sound function. The detector then conducts detection through sound (horn) signals.
• When the sound signal is a short sound, move the detector slightly upwards.
• When the instrument makes a rapid sound, move it slightly downwards.
• When the instrument makes a continuous sound, it is level with the laser beam.
• If there is no sound heard, the detector is not receiving the laser signal.

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(f) Turn-off timer
• The detector will automatically turn off if it has not received a laser signal for 5 minutes

(g) Back light system
• Press the back light button which will illuminate the display window.

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