

Quick Start SP30

INSTRUCTIONS



from P.R.Engineering Ltd www.laser-level.co.uk Tel: 01246 269 777

Thank you for purchasing the **SP30** semi-auto Rotary laser level kit. These instructions are intended to explain the quick basics to operating this equipment. If you need any more information, or the unit requires calibration or repair, then please contact our Service Dept on tel 01246 269 777 or fax 01246 260 007. We are here to help.

Power source:

Unclip the battery cover & carefully remove.

Fit 4 x type C, alkaline batteries. Take care with correct polarity as marked on the case. Refit battery cover. The SP30 will accept rechargeable batteries but there is no provision for charging in the laser. You will need to charge these batteries externally. We would also recommend that a spare set of batteries are kept in the carry case as a back-up.

Positioning the Laser:

Mount the SP30 on a generally level, firm surface or 5/8" threaded Tripod. To operate correctly this surface must be within +/-5 deg of true horizontal. The laser can be used Indoors or Outside, where it is waterproof to IP54.

Principle of Operation:

This is a SEMI automatic laser with a pendulum type compensator. Having positioned the laser, generally centralise the bubble level. This enables the pendulum to "float" freely & set true level. It is unnecessary to set the bubble level very accurately because the system compensates for this.

IF THE SP30 ROTATES IT WILL GIVE A TRUE LEVEL LASER BEAM.

Controls:

A simple ON/OFF toggle switch is located by the battery compartment. Position laser & centralise bubble level as described above. Switch ON. The amber LED will flash 3 times then go out. The head will rotate having auto levelled & then the red laser beam will fire to give true level output. The rotational speed is fixed @ 300rpm and is matched to the supplied LS 6 detector.

A second LED on the control panel will illuminate red when battery level is low.

Grading & Squaring:

The SP30 does not have a grading nor squaring facility.

LS 6 Detector:



Fit the supplied 9V battery, polarity marked. Power up - via red ON/OFF button. The next button sets coarse (+/-2mm) or fine (+/-1mm) pick-up resolution. The User can switch the sounder to High / Low volume or OFF, as required. The far right-hand button controls a display back-light for use in low lighting conditions on site.

A rear LCD simply repeats the main front display.

Use with or without its staff mounting bracket. Spare brackets are available.

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Detector Procedure – face the LS 6 towards the SP30 & find the rotating laser beam via the red pick-up window. Obtain a continuous tone for perfect level.

If the sun is low in the sky & shining into the red window, shield it with a cupped hand to prevent false readings. Positioning the SP30 laser itself in full sun is no problem but the detector window can in some instances, be affected by direct bright sunlight or reflections. So please take extra care!

SAFETY PRECAUTIONS:

Comply with class II laser operating safety procedures.
Display a **Laser Safety Notice** in the working area.

General Advice:

This is an accurate measuring device - so to give good service, look after it!
Prevent the SP30 from receiving severe knocks, bangs or vibration.
Store the laser & its accessories in the supplied, foam-lined carry case.
If wet, dry before storing & keep in storage temperatures between 5-30 deg C.
Remove all batteries before long term storage, to prevent internal damage.

There are NO User serviceable parts.



We offer a full Back-up service including repairs, calibration & usage advice.
Accessories for the various Trades are also available - on request.
Eg. Tripods, staffs, wall brackets & screeding poles etc.

Please contact us:

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