



THE TOOL COMPANY

# ROTATING LASER LEVEL KIT

■ STOCK No.64089

■ PART No.LLK

## • INSTRUCTIONS •

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS KIT.



02/2002

## GENERAL INFORMATION

This manual has been compiled by Draper Tools and should be kept with the kit for future references. This manual describes the purpose for which this kit has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that this manual is read before any operation or, before performing any kind of adjustment to the kit and prior to any maintenance tasks. By following all the general safety instructions contained in this manual, it will ensure both kit and operator safety, together with longer life of the kit itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the kit. Whilst every effort has been made to ensure accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.



# SPECIFICATION

The Draper Tools policy of continuous improvement determines the right to change specification without notice.

RATED INPUT VOLTAGE ..... 3V D.C.  
 RATED INPUT ..... 100mA.  
 LASER CLASS ..... Class 2 Laser Product  
 WAVELENGTH ..... 630-680nm, continuous wave  
 OUTPUT POWER ..... Max. 1mW  
 PROTECTION CLASS ..... III  
 DEGREE OF PROTECTION ..... Ordinary  
 BATTERIES ..... 2 x AAA batteries (supplied)  
 TRIPOD HEIGHT ..... 1100mm\* max.

\*may vary in production.



# CAUTION

1. Care should be taken to ensure that the level is not knocked, dropped or damaged during storage or use.
2. Do not stare into the laser beam. Do not direct the beam towards a person's eye.
3. Avoid dropping the Laser Level.
4. You should keep the surface steady and flat when you operate the Laser Level.
5. Remove batteries if Laser Level is not used for a long period of time.
6. Do not attempt to disassemble or repair.



# DECLARATION OF CONFORMITY

We  
Draper Tools Ltd. Hursley Road, Chandler's Ford, Eastleigh, Hampshire.  
SO53 1YF. England.

Declare under our sole responsibility that the product:

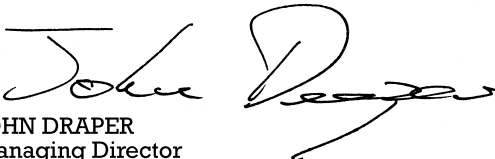
**Stock No.:-** 64089.

**Part No.:-** LLK.

**Description:-** Laser Level Kit

To which this declaration relates is in conformity with the following directive(s)  
89/336/EEC.

With reference to: EN50081-1, EN50082-1, EN60825 & EN61010-1.



JOHN DRAPER  
Managing Director



## GUARANTEE

Draper Laser levels have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship for a period of 12 months from the date of purchase except where tools are hired out when the guarantee period is ninety days from the date of purchase.

Should the machine develop any fault, please return the complete tool to your nearest authorized warranty repair agent or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF, England. Telephone: (023) 8049 4344.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accident, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the 12 month period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights.

Draper Tools Limited.



## BATTERY INSTALLATION

1. Unscrew the brass fixing.
2. Insert 2 AAA batteries (supplied) with the small (+) terminal facing the opening of compartment.
3. Replace the brass fixing and tighten screw.



## LASER LEVEL OPERATION

1. **GENERAL:** This laser level is for distant levelling, spot checking straightness and distant reference points and contains a spirit level with two quality vials, one horizontal and one vertical and a semiconductor Class 2 laser. The level may be used for a wide variety of applications.
2. **BUBBLE LEVELLING:** Remove the rotary base from the storage case, locate vial at a centre point between two turn screws, and level by adjusting the screws on the base until the bubble is centred; then rotate 120° and repeat procedure until you complete a full 360° rotation. After the base is level, affix laser level and clamp.
3. **HORIZONTAL DIRECTION/LEVELLING:** After levelling up the level on the base, switch on power to project the horizontal dot/beam. Rotate the base to the desired point and mark as required. If a laser line is required, project laser dot/beam to your required point and mark (A), then rotate to a second point and mark (B), then fit the smaller brass line prism into the end locating hole and line up between the two points.
4. **VERTICAL DIRECTION:** If a vertical line is required, after levelling the laser assembly, project and mark point (A), reduce or increase the height as required and project and mark point (B) without rotating the base; then insert smaller brass line prism (same as in step 3 above) and line up between the two points.
5. **ROTATING 'DOT' PRISM:** After levelling the laser assembly, install the larger brass prism to project a DOT at a right angle to the level. The prism can be rotated throughout 360° to give a projected dot mark on ceilings, walls and floors, etc.
6. **TRIPOD:** The tripod may be used in any application. Level up the tripod by adjusting the legs to centre the vial bubble. Screw the rotating base onto the tripod re-check the levels and adjust as required, attach the laser level and proceed as above. In the event of having to re-locate the tripod/level assembly, always ensure the levels are re-checked prior to use.
7. **BATTERY REPLACEMENT:** The batteries must be replaced when the laser beam becomes dim or the light spot becomes distorted. Remove the brass threaded cover from the end of the level and replace using two Draper AAA size batteries (Stock No.61833) or other similar makes. We recommend the use of a good quality heavy duty alkaline batteries at all times. Remove the batteries if the laser is not to be used for a few days. This preserves the product and battery life.
8. **SAFETY:** In the use of this laser tool, care should be taken to ensure that the beam is never directed into the eyes of others.



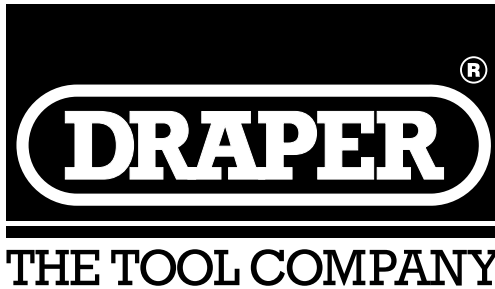
## OPERATION

1. The laser point or line can be used to spot check straightness. Put the level on a surface and after 5 seconds, you can determine the amount of skew.
2. The level may be used as an aid to laying pipes, installing windows and for a wide variety of other applications.



## CARE & MAINTENANCE

1. Clean only with a damp cloth to remove any marks. Do not use solvents, acetones or strong chemicals.
2. Clean the lens with a cotton bud. Do not use strong chemicals or abrasive cleaners.



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