



# ***CEN-TECH***

## **Mini Laser Level with Tripod**

### **Model 90725**

#### **ASSEMBLY AND OPERATING INSTRUCTIONS**



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**For technical questions and replacement parts, please call 1-800-444-3353**





## Specifications

Material:	All ABS body with aluminum end fittings	Dimensions:	7-5/8"l x 1"w x 2-1/8"h
Tripod:	Aluminum swivel head zinc plated legs Lockable swivel head	Levels:	(3) Liquid filled vials: Horizontal, Vertical, and 45 degree
Adjustability:	360 degrees	Working Range:	Approx. 36'
Features:	On/Off switch	Laser Dot:	1/4" OD @ approx. 36' 350 nm wavelength
Power:	(3) 1.5v AG13 button cell batteries included	F.D.A. certification number	0310895-00 Laser Class II

## Save This Manual

You will need the manual for the safety warnings and precautions, assembly instructions, operating and maintenance procedures, parts list and diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep the manual and invoice in a safe and dry place for future reference.

## Safety Warnings and Precautions

**WARNING: When using tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.**

**Read all instructions before using this tool!**

1. **Keep work area clean.** Cluttered areas invite injuries.
2. **Observe work area conditions.** Do not use this tool in damp or wet locations. Don't expose to rain. Keep work area well lighted. Do not use in the presence of flammable gases or liquids.
3. **Keep children away.** Children must never be allowed in the work area. Do not let them handle machines, tools, or extension cords.
4. **Store idle equipment.** When not in use, tool must be stored in a dry location to inhibit rust. Always lock up tool and keep out of reach of children.
5. **Use the right tool for the job.** Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this tool was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this tool and do not use this tool for a purpose for which it was not intended.
6. **Dress properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically non-conductive clothes and non-skid footwear are recommended when working. Wear restrictive hair covering to contain long hair.



7. **Use eye and ear protection.** Always wear ANSI approved impact safety goggles. Wear a full face shield if you are producing metal filings or wood chips. Wear an ANSI approved dust mask or respirator when working around metal, wood, and chemical dusts and mists.
8. **Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across running machines.
9. **Maintain tools with care.** Keep clean for better and safer performance. Follow instructions for batteries and changing accessories. The handles must be kept clean, dry, and free from oil and grease at all times.
10. **Maintain Batteries.** Remove batteries when not in use for a prolonged period of time to prevent corrosion and damage to this tool.
11. **Avoid unintentional starting.** Be sure the switch is in the Off position when not in use.
12. **Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
13. **Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician. Do not use the tool if any switch does not turn On and Off properly.
14. **Guard against electric shock.** Prevent body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerator enclosures.
15. **Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Harbor Freight Tools.
16. **Do not operate tool if under the influence of alcohol or drugs.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.
17. **Maintenance.** For your safety, service and maintenance should be performed regularly by a qualified technician.



18. **Be Eye Aware.** Laser light can potentially harm the eye. **WARNING:** Do not look directly into this laser, or the reflection of the light. Do not allow any other person or animal to be exposed to the direct or reflected laser beam.

**Warning:** The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

## Unpacking

When unpacking, check to make sure the following parts are included.

- (1) *Mini laser level*
- (1) *Tripod*
- (3) *1.5V AG13 button cell batteries*
- (1) *Instruction booklet*

If any parts are missing or broken, please call Harbor Freight Tools at the number on the cover of this manual.

## Assembly

1. To install batteries, unscrew the On/Off switch assembly, and insert three (3) 1.5v batteries (included). Be sure to install the batteries matching the polarity marked in the battery compartment.
2. This level may be used with or without the tripod. To install or remove the tripod, thread the tripod stud located on the tripod head into the bottom of the level. The tripod swivels 360 degrees, and may be tilted at up to 90 degrees vertical. If using the tripod, adjust it as desired, and lock the level into place using the thumb screw located on the tripod head.
3. The tripod legs may be extended and locked into place to provide greater working height or to compensate for an uneven surface.



## Operation

**WARNING: Never allow the laser light or its reflection to shine directly into the eyes of any person or animal. Severe eye injury may result.**

1. Determine the intended use of the level, and optionally install the tripod, if it will be needed.
2. Align the laser level as required, observing the vertical, horizontal or 45 degree spirit levels. These will indicate the relative position of the laser level to actual level.
3. When the laser level is correctly positioned, turn on the laser by depressing the On/Off switch at the end of the level. Recheck the spirit levels to be sure the laser level has not been moved.
4. Mark the desired measurement, then turn the laser off by depressing the On/Off switch.

**Using the level to equalize height of distant components:** For example: If you wish to install cement footings for a storage shed, first determine the desired height of any one of the footings. Align the laser beam with the top surface of the reference footing, and assure that the liquid level on top of the laser level is at level with the ground. Now direct the laser beam toward each of the remaining footing locations. On reference stakes at those locations, mark the spot that the laser illuminates. This indicates the desired top surface of that footing. This technique can be used for many similar applications, for example to align pictures on a wall.

**Using the level to install horizontal or vertical components:** For example: To install a chair rail on an interior wall, first mark the desired height of the rail. Align the laser level with that point, and assure that the liquid level indicates level with the floor. Shine the laser light on the adjoining wall, and have an assistant mark that location. Now install the chair rail in a direct line between the two points. This same technique can be used to install vertical or 45 degree angle components.

**Using the level to check slope:** For example: To determine the slope of a floor, place the laser level at one end of the floor, using the tripod. Assure that the laser is level to the ground by observing the liquid level on the top. Measure the vertical drop from the laser lens to the floor surface. Shine the laser light on a ruler held vertical at the other end of the floor. The difference in these measurements is the amount of slope in the floor. This technique can also be used to design slope, such as when constructing an outdoor surface which will require a run-off slope.

Your laser level is a versatile tool. The above suggestions are only a few of the many uses you will discover for this tool.



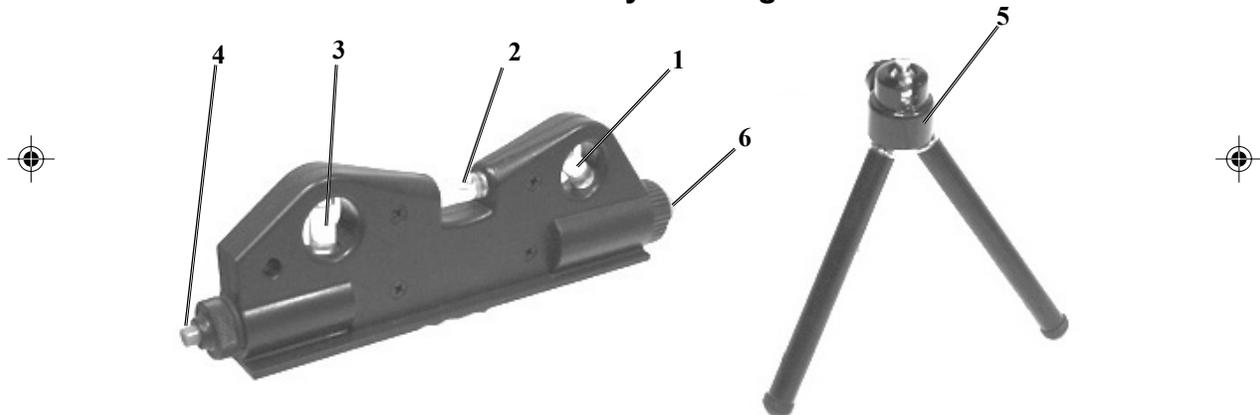
## Maintenance

1. Remove the batteries when the laser level will not be used for an extended period of time.
2. Prevent sharp impacts to the tool, such as dropping it or allowing it to bang around in a tool box.
3. Keep the laser level clean and dry. Wipe any dirt, moisture or grease from it whenever necessary. Store it safely in a clean, dry place.

## Parts List

- |                            |                                 |
|----------------------------|---------------------------------|
| 1. 45 degree liquid level  | 4. On/Off switch                |
| 2. Horizontal liquid level | 5. Mini tripod (one leg hidden) |
| 3. Vertical liquid level   | 6. Laser lens                   |

## Assembly Drawing



**NOTE:** Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.

### PLEASE READ THE FOLLOWING CAREFULLY

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