

IMPORTANT:
Read Before Using

IMPORTANT :
Lire avant usage

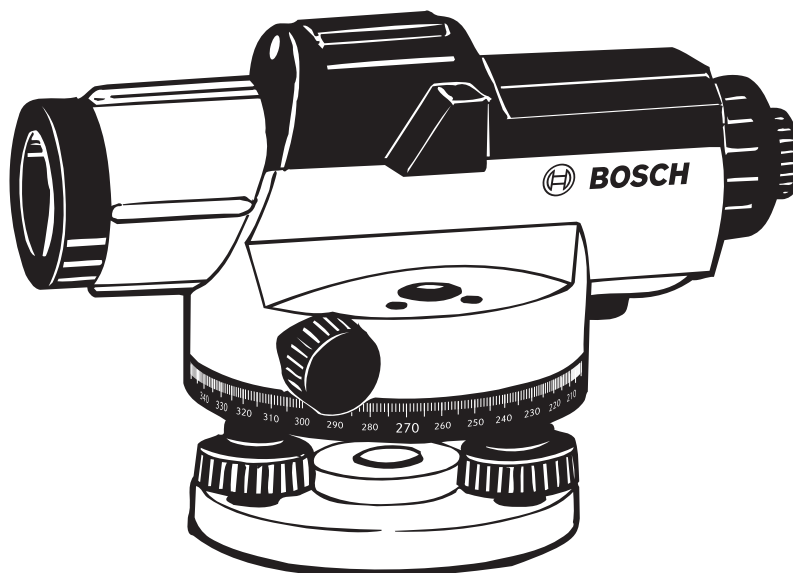
IMPORTANTE:
Leer antes de usar



Operating/Safety Instructions

Consignes de fonctionnement/sécurité

Instrucciones de funcionamiento y seguridad



GOL 24
GOL 26
GOL 32



BOSCH

**Call Toll Free for
Consumer Information
& Service Locations**

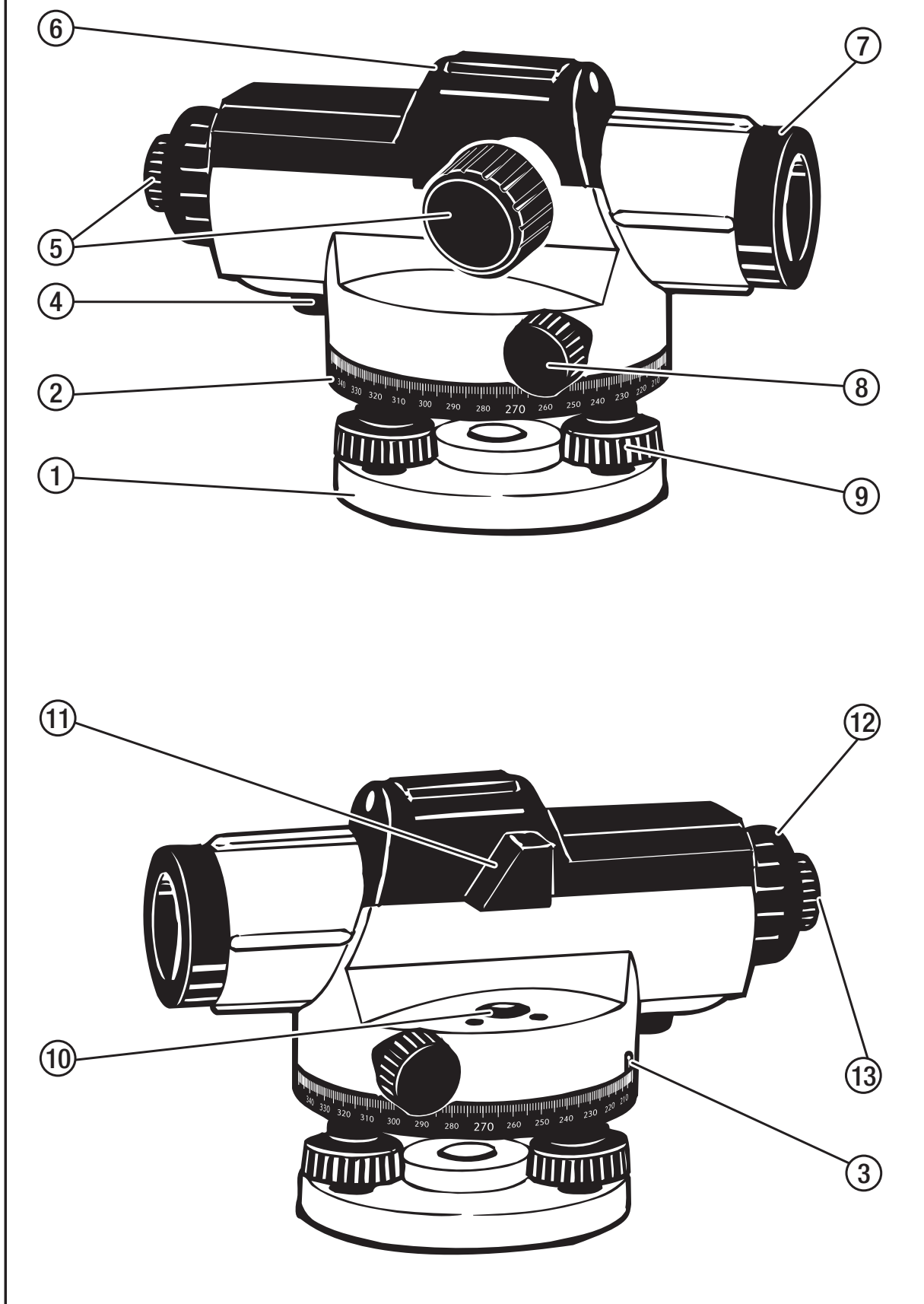
**Pour obtenir des informations
et les adresses de nos centres
de service après-vente,
appelez ce numéro gratuit**

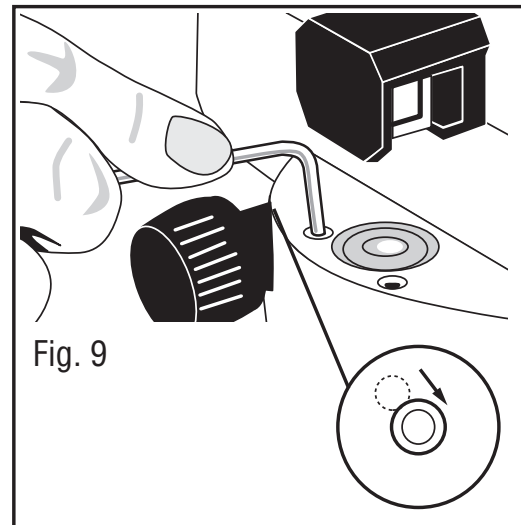
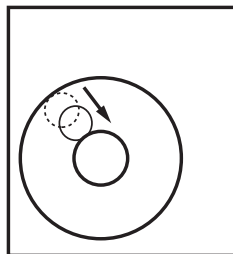
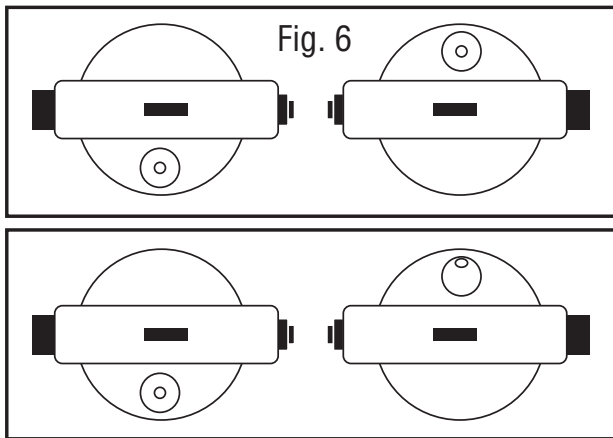
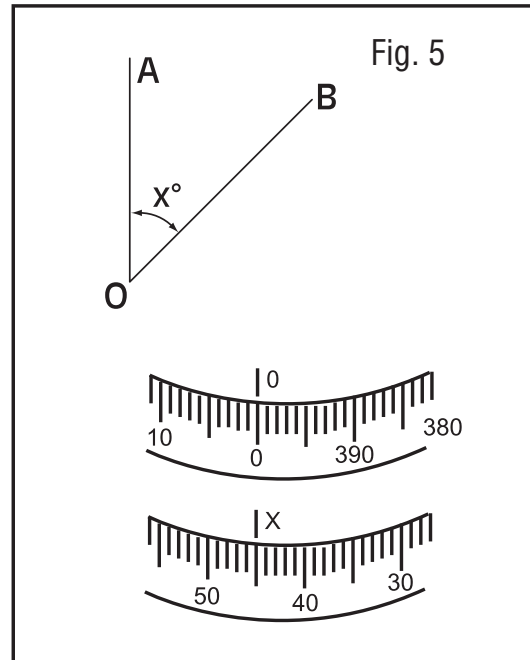
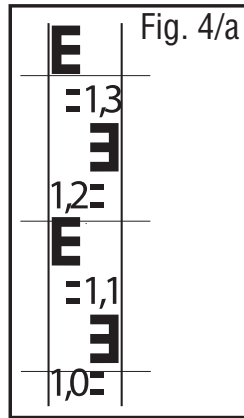
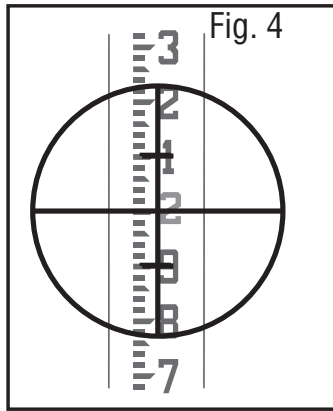
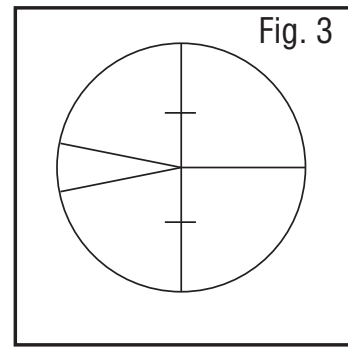
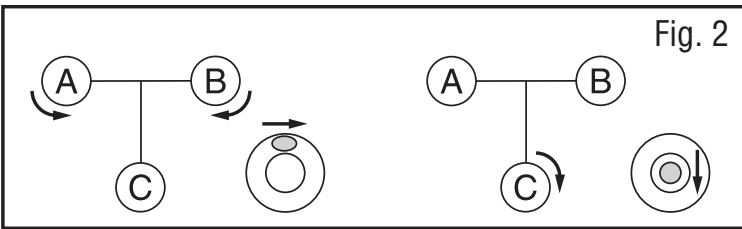
**Llame gratis para
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para el consumidor y
ubicaciones de servicio**

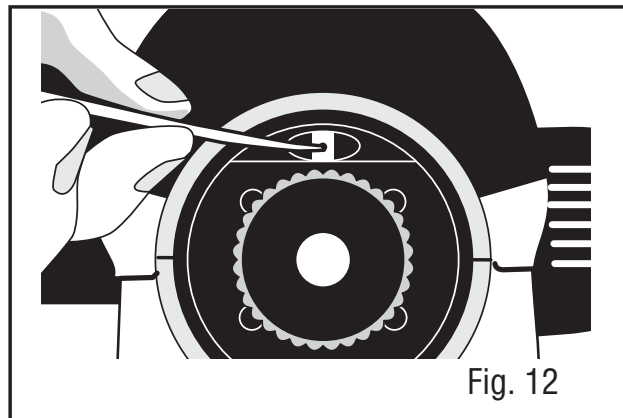
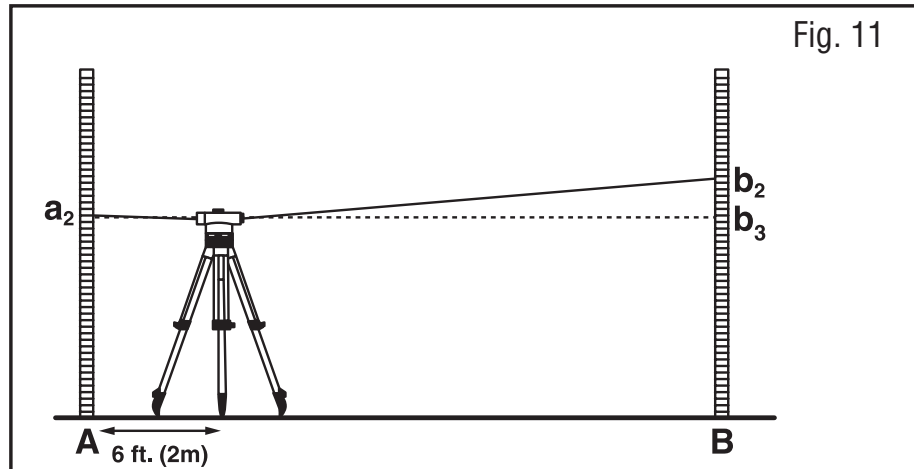
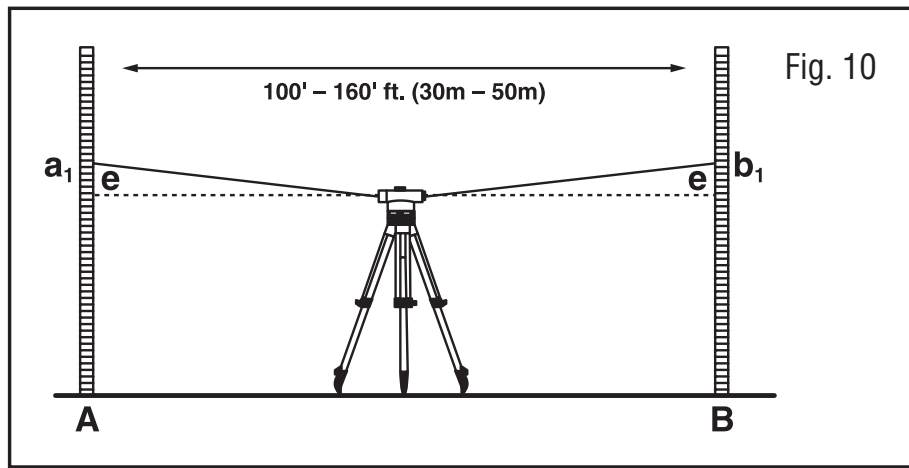
**For English Version
See page 5**

**Version française
Voir page 10**

Fig. 1







General Safety Rules

Work area safety

⚠ WARNING Keep work area clean and well lit. Cluttered or dark areas invite accidents.

Personal safety

Stay alert, watch what you are doing and use common sense when operating a tool. Do not use a tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating a tool may result in serious

personal injury or incorrect measurement results.

Use and care

Use the correct tool for your application. The correct tool will do the job better and safer.

Store idle tool out of the reach of children and do not allow persons unfamiliar with the tool or these instructions to operate the tool. Tools are dangerous in the hands of untrained users.

Maintain tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the operation. If damaged, repair tool before use. Many accidents are caused by poorly maintained tools.

Use the tool, accessories, etc., in accordance with these instructions and in the manner intended for the particular type of tool, taking into account the working conditions and the work to be performed. Use of the tool for operations different from those intended could result in a hazardous situation.

Service

Have your tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety and accuracy of the tool is maintained.

Develop a periodic maintenance schedule for tool. When cleaning a tool be careful not to disassemble any portion of the tool since internal components may be misplaced or pinched or may be improperly mounted. Certain cleaning agents such as gasoline, carbon tetrachloride, ammonia, etc. may damage plastic parts.

SAVE THESE INSTRUCTIONS.

Intended Use

This tool is intended to quickly determine and check level points for any construction job.

Preparation

This manual includes specifications for the GOL Series auto level.

⚠ WARNING **Verify the calibration of the instrument. Before initial use, follow the test shown in the section "Line-of-sight."**

After doing any job using any instrument, it is advised that you check your work. To check your work, set up the instrument in a different

location from the place where you originally set up (approx. 16 m) and reshoot a few of your original targets. The new readings should agree with the first readings.

If the new readings do not agree, you should have the instrument checked by a Bosch Authorized Repair Center, or try the Line-of-sight adjustment.

Features

The numbering of the product features shown refers to the illustration of the tool on the graphic page 2.

- 1 Base Plate
- 2 Horizontal Circle
- 3 Horizontal Circle Reference Mark
- 4 Compensator Lock
- 5 Focusing Knobs

- 6 Optical Peep Sight
- 7 Sunshade / Objective Lens
- 8 Horizontal Drive Screw
- 9 Leveling Screw
- 10 Circular Bubble Vial
- 11 Vial Sighting Prism
- 12 Eyepiece Cover
- 13 Eyepiece Focusing Knob

Technical Data			
Automatic Optical Level	GOL 32	GOL 26	GOL 24
Material Number	0601068510	0601068010	0601068610
Magnification	32X	26X	24X
Leveling Accuracy	1/16-in at 100-ft (1.0 mm at 30 m)	1/16-in at 100-ft (1.6 mm at 30 m)	1/16-in at 100-ft (1.6 mm at 30 m)
Working Range	Up to 400-ft (120 m)	Up to 330-ft (100 m)	Up to 300-ft (91 m)
Clear Obj. Aperture	36 mm	36 mm	36 mm
Setting Accuracy	±0.3"	±0.8"	±0.8"
Telescope			
Image	Erect	Erect	Erect
Length	8.3-in (210 mm)	8.3-in (210 mm)	8.3-in (210 mm)
Shortest Focusing Length	1-ft (0.3 m)	1-ft (0.3 m)	1-ft (0.3 m)
Field of View	1°30'	1.5°	1.5°
Stadia Ratio	100	100	100
Stadia Addition	0	0	0
Compensator			
Leveling Range	±15'	±15'	±15'
Magnet Dampening	Yes	Yes	Yes
Sensitivity of Bubble	8 min / 2 mm	8 min / 2 mm	8 min / 2 mm
Circle Graduation	1° or 1 Gon	1° or 1 Gon	1° or 1 Gon
Degree of protection	IP54	IP54	IP54
Instrument Net Weight	3.7 lbs. (1.7 kg)	3.7 lbs. (1.7 kg)	3.7 lbs. (1.7 kg)
Mounting Thread	5/8-11	5/8-11	5/8-11

Operation

Initial Operation



WARNING Verify the calibration of the instrument. Before initial use, follow the test shown in the section "Line-of-sight."

Protect the tool against moisture and direct sun irradiation.

Do not subject the tool to extreme temperatures or variations in temperature. For an example, do not leave it in a vehicle for long periods. In case of large variations in temperature, allow the tool to adjust to the ambient temperature before putting it into operation. In case of extreme temperatures or variations in temperature, the accuracy of the tool can be impaired.

Avoid heavy impact or dropping of the tool. After heavy exterior impact on the tool, an accuracy check should always be carried out before continuing to work (see "Leveling Accuracy").

Setting up the instrument and centering the bubble

- Set up the tripod and attach the level using the tripod mounting screw.
- Adjust the tripod legs until the tripod head is roughly level. Center the bubble within the vial by turning the leveling screws as shown in Fig. 2.
 - Turn screws A and B to move the bubble to the right side.
 - Turn screw C to center the bubble.

⚠ WARNING Wear eye protection. If Spirit Level leaks, soak up with appropriate absorbent material and dispose of safely. Spirit Level contains flammable liquid that may cause respiratory tract, eye and skin irritation.

Focusing the instrument

1. Focus the cross hairs (Fig. 3) by pointing the telescope towards a bright background or holding a white sheet of paper in front of the objective lens, then turning the eyepiece until the cross hairs are sharp and black.
2. Focus the telescope by locating a target, such as a leveling rod, using the optical peep sight. Looking through the eyepiece, use the focusing knob to bring the target into sharp focus. Center the vertical hair within the target using the horizontal drive knobs on either side of the instrument.

⚠ WARNING Do not look through optics directly into the sun. Eyesight damage may result.

Reading measurements using a leveling rod

Height reading

Read the rod where it is intersected by the horizontal hair. For example, the height reading in Fig. 4 is 2.0ft and Fig. 4/a 1,195m.

Distance measurement

Read the rod where it is intersected by the upper and lower stadia hairs; in Fig. 4 (Fig. 4/a) these readings are at 1.9 ft and 2.1 ft (1,352 m and 1,038 m). The stadia ratio is 1:100; therefore, the distance from the instrument to the rod is: $(2.1 - 1.9) \times 100 = 20$ feet - Fig. 4/a $(1,352 - 1,038) \times 100 = 31,41\text{m}$.

Angle measurement

As shown in Fig. 5, sight point A and rotate the horizontal circle until the reference mark is on "0". Rotate the level and sight point B; the reference mark will indicate the angle between A and B.

Calibration

⚠ WARNING Verify the calibration of the instrument. Before initial use, follow the test shown in the section "Line-of-sight." Bosch recommends that your instrument be verified for calibrated on a regular interval as well as after rough handling, impact on, or drop of the instrument.

Compensator lock button

Check the compensator for proper operation before use or anytime the operation of the instrument is in question. Push and release the compensator lock button to shake the compensator. The compensator should return to the exact horizontal position sighted before the lock button was pressed.

Circular bubble vial

Center the vial bubble using the leveling screws, then rotate the instrument 180°. The bubble should remain centered (Fig. 6). If the bubble moves out of center, the vial needs adjustment (Fig. 7).

Turn the leveling screws to bring the bubble halfway to center (Fig. 8). Using the Allen wrench, turn the two vial adjustment screws to center the bubble (Fig. 9).

Repeat the above procedure until the bubble remains centered when the level is rotated 180°.

Line-Of-Sight

The line-of-sight needs to be horizontal within 3 mm of level to be accurate.

Set up and level the instrument on a tripod midway between two leveling rods set approximately 30 m to 50 m apart. Sight rods A and B; the height readings are a1 and b1 (Fig. 10). The value "H" is equal to $(a1 - b1)$. Move the instrument to within 6 feet (2m) of rod A and re-level. Again sight rods A and B; these height readings are a2 and b2 (Fig. 11).

If $a1 - b1 = a2 - b2 = H$, the line-of-sight is horizontal. If not, the level should be adjusted as follows.

Because the instrument is set halfway between A and B, any error in the line-of-sight causes both readings to be erroneous by the same amount. Error “e” cancels out, so the value $a_1 - b_1 = H$ is correct. Therefore, $a_2 - H = b_3$, the adjusting value.

To adjust, unscrew the eyepiece cover. Turn the adjusting screw with the adjusting pin (Fig. 12) until the horizontal cross hair gives the reading b_3 , on rod B. Repeat the above Procedure until $\{(a_1 - b_1) - (a_2 - b_2)\} \leq 3$ mm.

Maintenance and Service

⚠ WARNING Care must be taken to maintain the accuracy of the instrument.

After each use, the instrument should be wiped clean and kept in its carrying case.

Remove dust from the lenses with a soft brush or a nonabrasive wipe. Never touch the lenses with your fingers.

Store the instrument in a dust-free area with low humidity.

A bag of silica gel dryer is included with each instrument; if it has stopped working effectively, bake it to remove moisture or replace with a new bag.

If the tool should fail despite the care taken in manufacturing and testing

procedures, repair should be carried out by an authorized after-sales service center for Bosch measuring tools.

In all correspondence and spare parts orders, please always include the 10-digit article number given on the type plate of the tool. In case of repairs, send in the tool packed in its protective case.

ENVIRONMENT PROTECTION

Recycle raw materials & batteries instead of disposing of waste. The unit, accessories, packaging & used batteries should be sorted for environmentally friendly recycling in accordance with the latest regulations.



LIMITED WARRANTY OF BOSCH LASER AND MEASURING TOOL PRODUCTS

Limited Warranty Program

Robert Bosch Tool Corporation ("Seller") warrants to the original purchaser only, that all Bosch lasers and measuring tools will be free from defects in material or workmanship for a period of one (1) year from date of purchase. Bosch will extend warranty coverage to two (2) years when you register your product within eight (8) weeks after date of purchase. Product registration card must be complete and mailed to Bosch (postmarked within eight weeks after date of purchase), or you may register on-line at [If you choose not to register your product](#), a one (1) year limited warranty will apply to your product.

30 Day Money Back Refund or Replacement -

If you are not completely satisfied with the performance of your laser and measuring tools, for any reason, you can return it to your Bosch dealer within 30 days of the date of purchase for a full refund or replacement. To obtain this 30-Day Refund or Replacement, your return must be accompanied by the original receipt for purchase of the laser or optical instrument product. A maximum of 2 returns per customer will be permitted.

SELLER'S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY under this Limited Warranty and, to the extent permitted by law, any warranty or condition implied by law, shall be the repair or replacement of parts, without charge, which are defective in material or workmanship and which have not been misused, carelessly handled, or misrepaired by persons other than Seller or Authorized Service Center. To make a claim under this Limited Warranty, you must return the complete Bosch laser or measuring tool, transportation prepaid, to any BOSCH Factory Service Center or Authorized Service Center. Please include a dated proof of purchase with your tool. For locations of nearby service centers, please use our on-line service locator or call

THIS WARRANTY PROGRAM DOES NOT APPLY TO TRIPODS AND RODS. Robert Bosch Tool Corporation ("Seller") warrants tripods and leveling rods for a period of one (1) year from date of purchase.

THIS LIMITED WARRANTY DOES NOT APPLY TO OTHER ACCESSORY ITEMS AND RELATED ITEMS. THESE ITEMS RECEIVE A 90 DAY LIMITED WARRANTY.

To make a claim under this Limited Warranty, you must return the complete product, transportation prepaid. For details to make a claim under this Limited Warranty please visit

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