Dual Slope Laser Manual

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Book Descriptions:

Dual Slope Laser Manual

Ask our Experts! The single slope laser gives you a read on a slope one axis at a time. The dual slope laser has the ability to give you a read on two slopes on separate axis at the same time, which allows you the possibility of coming up with a compound grade. How you adjust the grade on your slope laser depends on how it is designed. For a manual grade slope laser, you have to figure out what the grade is to be and set your detector and rod to that grade, then manually move the beam up or down until your detector comes on to center. An automatic lasers eliminates a lot of that work, and then there are semiautomatic slope lasers that automatically adjust some of the functions. Here are some models to consider A good basic slope grade laser, like the semiautomatic Leica Single Grade Laser Rugby, has a high impact, glass filled housing, a solid metal base and it is 100% waterproof, for assured durability. It has an LCD grade readout and a bump alert that alerts you if the laser has been moved or bumped out of position, so as to avoid an error in your reading. It includes a beam masking feature, which turns off the laser diode on up to three sides to prevent unwanted disturbances. It has a user friendly menu. The star button opens the menu and allows you to enter changes. You select the axis, then press Up or Down to enter the required grade. For remote control convenience, consider the Spectra Precision Laser GL412 single grade and GL422 dual grade transmitters. They are automatic selfleveling lasers that offer three functions in one piece of economical equipment level, grade and vertical alignment with plumb. They both feature a 2way, remote control with a builtin backlit grade display which gives you access to all the functions on the laser keypad from up to 330 feet away. The ability to make grade changes from anywhere on the job greatly reduces setup time and speeds operation, especially when multiple job grade breaks are needed.http://www.incibit.eu/userfiles/das-500-manual.xml

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Both units also incorporate automatic temperature and grade compensation for high accuracy in any weather or location. The beam is also kept precise by eliminating interference; it can be turned off electronically on on up to 3 sides of your choice. Wireless technology gives the Trimble Spectra GL512 and 522 Grade Lasers greater grade matching capability, on top of all the functions of the GL400 series lasers. Wireless communication between the HL750 Laserometer and the transmitters provide automatic Grade Matching. Grade Matching allows measurement of unknown grade values between two points. It also has special features to eliminate This eliminates errors induced by environmental factors. PlaneLok automatically locks the beam on the receiver and keeps it on grade. Electronic Leveling Vibration Filter dampens vibrations in high winds or on high vibration jobsites. The casing is rugged enough to withstand a 3 foot drop on concrete. The Trimble Spectra GL700 Series offers the most innovative collection of features for faster and more accurate reads on grades Longrange Remote Control, PlaneLok, Grade Matching and Automatic Axis Alignment. With the powerful, longrange remote control option it only takes one person to accurately set up and operate the grade laser. Even grade reverse is done in an instant. Complex alignments are automatic and virtually foolproof. You can even automatically control all the transmitter functions from inside the cab of a machine. Each unit comes with a laser receiver standard, your choice of power options, and the best service and support in the industry. Choose from economical, single grade to advanced, steep grade laser transmitters. It is a fully automatic selfleveling laser with a range up to 2,500 feet, 5 arc second repeatability, a graphical display, and extra long battery life.http://www.completeinvestigations.co.uk/userfiles/das-alarm-systems-manuals.xml

For the combination of versatility with ease of use, consider the AGATEC 110349 A710GC Split Beam Electronic Dual Grade Self Leveling Rotary Laser Level with Z Axis Grade. Whether you need a standard horizontal laser, a grade laser, an interior laser, or as a alignment laser with digital grade, this one piece of equipment will do it. The AGATEC A710 GC is fully self leveling and simple to get started. Just set up on the tripod and press the power button. The AGATEC A710 GC will level itself within its 6 degree self leveling range and start spinning. It is also tough enough to hold up to harsh conditions, guaranteed dustproof and waterproof. The AGATEC MR240 machine sensor that accompanies the AGATE A710, provides the user with a laser sensor that can be mounted on the dipper arm of back hoes or excavators via the rare earth mounting magnets. Grade indications are visible via the bright crisp LED lights indicating above, below and on grade signals. The AGATEC MR240 allows the machine operator to continue working as grade indications are directly visible to the operator from the cab of the machine. The AGATEC MR240 keeps coworkers out of the danger zones of heavy machines and allows them to be more productive on other areas of the job site. Getting an accurate read on a slope is essential for surveyors and engineers who plan roads, concrete sections with runoff for sports fields, or parking garages and ramps with designed for conducive drainage. Accurate grade is also key to setting up sewer systems and storm drain pipes. Contractors also can benefit from grade lasers in site preparation, septic installation, trenching.Consider the range of functions you anticipate on your job site and get the grade laser that will work for you. We offer a price variety in all product lines to meet your budget. Tiger Supplies hosts a stocked warehouse of top of the line construction lasers, total stations, theodolites, and GPS. Looking forward to serving you Tiger Supplies.

Contact Us Customer Service Policies Return Form Request our Catalog. TOPCON RLSV2S DUAL SLOPE SELFLEVELING ROTARY LASER LEVEL PACKAGE also viewed Please choose a different delivery location.Our payment security system encrypts your information during transmission. We don’t share your credit card details with thirdparty sellers, and we don’t sell your information to others. Please try again.Please try again.Register a free business account Please try your search again later.With highspeed selfleveling, theres no leveling screws. No bubble vials! Just turn it on, and in seconds youre working. Dual slope capability and a fully remote radio controller featuring the same interface as the laser, the rugged and lightweight RLSV2S has everything to meet all of your job site requirements. Convenient pushbutton control and power management options contribute to the RLSV2S simplicity. And, its compact, portable design makes it easy to set up. In fact, the RLSV2S is so easy to use that even a novice grade checker can operate it like a pro, increasing productivity. Whether youre working on flat pads or slopes, the RLSV2S provides an accurate elevation reference thats compatible with all laser receivers and grade checking sensors. The waterproof housing of the RLSV2S ensures maximum productivity anytime, anywhere.Merchant Video Videos for related products 230 Click to play video Bosch 3 Plane LevelingAlignment Laser GLL380 Merchant Video Videos for related products 133 Click to play video Bosch Exterior SelfLeveling Rotary Laser Kit with Receiver, TriPod, Grade Rod, and Hard Case GR.To calculate the overall star rating and percentage breakdown by star, we don’t use a simple average. Instead, our system considers things like how recent a review is and if the reviewer bought the item on Amazon. It also analyzes reviews to verify trustworthiness. Please try again later. Gaelen 2.

0 out of 5 stars However the description says it comes with a tripod but no tripod came with my purchase and I have had to go out and buy one.In order to navigate out of this carousel please use your heading shortcut key to navigate to the next or previous heading. There is single or dual grade up to 10% and all models come with a remote control for easy setup without touching the unit. Ideal for concreters making a fall or setting a slope on a concrete slab or for landscapers or plumbers needing to get a slope to a stormwater pit. Also great for plumbers setting a fall on gutters. Measure out 10m from the centre of the unit in the X or Y direction and set detector as per standard detector

levelling setup. Press slope mode on the laser unit to activate level unlocking and press X or Y whichever one you want to set up first or in the event of a single grade laser press Y. Reset the detector on the staff, up or down as the case may be to suit the slope direction, to the required amount using a grade slope table. 100mm at 10m equals 1%. Press the slope arrow on the laser level keypad or remote in the same direction that you have reset the detector. Keep pressing the arrow button until the laser beam picks up the detector centre datum point again and then stop. Everything in that direction will now be at the slope that you have set; ie move from the laser 150m in that direction and the beam will continue to be at that slope. If a dual slope is required, set the laser level up initially diagonally opposite form the point of the pit or dual fall point. Set X first then follow the same steps with Y. To reset the grade to level, either turn unit off or slope mode off. Explore our range of Rotary Lasers. C " STANDARD SYSTEM COMPONENTS" p. iiiThe following conventions are used in this manual. Indicates precautions and important items which should be read beforeIndicates the chapter title to refer to for additional information. Indicates supplementary explanation.

Dry battery typePlease replaceThe definitions of the indications are listed below. Be sure you understand them before readingDefinition of IndicationThis symbol indicates items for which caution hazard warnings inclusive is urged. Specific details are printed in or near the symbol. This symbol indicates items which are prohibited. Specific details are printed in orThis symbol indicates items which must always be performed. Specific details areWarning. Do not perform disassembly or rebuilding. Fire, electric shock or burns could result. Do not use the unit in areas exposed to high amounts of dust or ash, in areas whereAn explosion couldWhen securing the instrument in the carrying case make sure that all catches,Failure to do so could result in theCaution. Do not use the carrying case as a footstool. The case is slippery and unstable so aDo not place the instrument in a case with a damaged case or belt. The case orWarning. Do not short circuit. Heat or ignition could result. Do not use voltage other than the specified power supply voltage. Fire or electricalDo not use damaged power cords, plugs or loose outlets. Fire or electric shockDo not use power cords other than those designated. Fire could result. Do not use batteries other than those designated. An explosion could occur, orDo not place articles such as clothing on the battery charger while chargingUse only the specified battery charger to recharge batteries. Other chargers mayAn explosion could occur, resulting in injury. Do not use the battery or charger for any other equipment or purpose. Fire or burnsTo prevent shorting of the battery in storage, apply insulating tape or equivalent toDo not use batteries or the battery charger if wet. Resultant shorting could lead toDo not connect or disconnect power supply plugs with wet hands. Electric shockCaution. Do not touch liquid leaking from batteries. Harmful chemicals could cause burns orCaution.

When mounting the instrument to the tripod, tighten the centering screw securely. Failure to tighten the screw properly could result in the instrument falling off theTighten securely the leg fixing screws of the tripod on which the instrument isDo not carry the tripod with the tripod shoes pointed at other persons. A personKeep hands and feet away from the tripod shoes when fixing the tripod in theTighten the leg fixing screws securely before carrying the tripod. Failure to tightenVibration and Impact Protection. When transporting the instrument, provide protection to minimize risk of severe vibration orProtection against abrupt change in temperature. Do not leave the instrument under strong sunlight for a long time. It may cause the instrumentExceptions from ResponsibilityThis product projects a visible laser beam during operation. This product is manufactured and. CFR 1040 or "Radiation Safety of Laser Products, Equipment Classification, Requirements and. User's Guide" IEC Publication 608251 provided on the safety standards for laser beam. As per the said standard, RLSV2S standard model is classified as "Class 3R IIIa Laser. Products". These are simple products to operate and do not require training from a laser safetyContact TOPCON or your. TOPCON dealer.Visible laser. Laser output 2.4mW. CLASS IIIa LASER PRODUCTExplanatory Label. Each

lavel is differed by the market. Warning. Use of controls or adjustments or performance of procedures other than thoseDo not look directly into the laser beam. Doing so could cause permanent eyeDo not stare at the laser beam. Doing so could cause permanent eye damage. Never intentionally point the laser beam at another person. The laser beam isCaution. Perform checks at start of work and periodic checks and adjustments with the laserWhen the instrument is not being used, turn off the power.

When disposing of the instrument, destroy the battery connector so that the laserOperate the instrument with due caution to avoid injuries that may be caused byAvoid setting theSight. Rotary head. Beam apeature. Control panel. Handle. Escape key. Level vial. Up key. Enter key. Power switch. For Vertical. Rotation. Arrow keys. Battery holder. Battery holder knob. Carging connector only in theKeyFunction. End Operation of Data Input and Sends data to theSelects a menu item. Cancels input or escape to previous status. Alignment key. Horizontal rotation changes to the grade setting screen forVertical rotation changes to the Alignment Mode. The arrows indicate code selection, digit shift, and numberPower switchX axis grade. Sample displayMask Mode display. Y axis grade. Rotation speedManual Mode display. Transmission and reception display. Transmits to the receiving instrument RC60 orReceives from the transmitting instrumentWhen transmission from the other instrumentBattery remaining. Ample power for operation. Power remaining for operation. Near power depletion. The laser speed will bePower depletion. Laser will stop. Dry cell battery typeReplace with new batteries. Rechargeable battery typeWhen connecting to. AD15 during error display, turn. OFF the power and then turn theDisplay. Strap holeDisplay is the same as the RLSV2S. C“RLSV2S Display” p. 13. Battery power display will show the remaining battery level on the RC60 remote controller.Power switch. The power switch turns ON or OFFOnGrade precision switch. Two ongrade precision options areConfirm the precision choice by theBuzzer sound switch. Volume of the sensor buzzer can beIndicator “LS80L Display” p. 16Directional arrowsThe indicators are located on front and backIndex. Beam receiving window. Turn the beam receiving window sideBuzzer speakerHeight alert warning of rotating. A flash and a buzzer soundHigh precision mode. Normal precision mode. Higher than datum positionMove the sensor downward. Datum position.

Rotating laser batteryLower than datum position. A flash shows that the RLSV2SMove the sensor upward. Battery remaining display. LS80L detects alarm signal from the RLSV2S. The LS80L can be canceled the alarm detection from theThe power is low, but laserDead battery. Replace the dry battery withConnect the battery according to the battery type purchased.Tighten the battery coverDo not mix used and new batteries,Nickel hydrogen dry cells and nickel cadmium dry cells can be used too, but the operatingUse the DB74C charging battery holder instead.Tighten the batteryGrasp the specified place on the battery holder, which is shown below,PlugAs illustrated at the right, while charging isThe same channel 1 to 9 must be set on the RLSV2S and the RC60 remote controller.Use the RC60 control panel for setting. C“Setting channel” p. 44It is also possible to set grades for the RLSV2S in theC4.3 Level Sensor LS80Lp. 15Install the LS80L on a staff in the manner shownWhen auto leveling is complete, the laser beam will emit vertically. About manual line control C7.2 Line Control manual verticalWhen the instrument system detects a shock, this Shock is given to the instrument.Height Alert DisplayThe three lamps blink atAuto leveling starts again. After auto leveling is finished, theMake sure that the laser beam is set at the correct height. Then, restart the operation.There are two methods to set grades on the laser beam 1 direct entry of the grade values forGrade can be set in both axes, X and Y, as shown below. Grades can be set in the range indicated below. Single axis. Dual axes. X axis. Grade rangeY axis. Grade rangeGrade axes and axis symbols are as shown in the diagram below.X axis. Minus. Plus. MinusPlus. Panel sideC12. Error Displayp. 62It is possible to enter the grade.Set up the grade in the same manner as the X axis.

When using the RLSV2S after grade setting, it is necessary to accurately set the RLSV2SBelow is an example of how to set grades to the accurate grade setting direction. To workOngrade line. Grade to

workDo not change the height of the LS80L installed on the pole. If the height of the RLSV2S is changed, return to step 4 and redo the adjustment.This mode is used to align the grades of the laser calibration to the worked grade.Using the Matching Mode, move the laser upC5.2 How to set remote controllerGrade direction. DisplayThe laser beam can be moved to the direction of the key during vertical rotation.Key. Alignment direction. DisplayIf this interferes with the operation, change the transmission channels for the RLSV2S andAfter pressing theOFF settingMatching Mode. Remote channel setting. Masking setting. OFF settingDepending on the status of the location where the instruments are used, laser beam emissionThe state when masking is notDisplays the masking direction. Arrow keys and maskingRLSV2S upperThe rotary head speed can be set to 600 or 300 R.P.M.Auto leveling function can be canceled and switched to Manual Mode. Auto leveling OFF LEVEL OFF After auto leveling is complete, the auto leveling functionAuto leveling ON LEVEL ON Auto leveling function will be effective at all times.When more than one RLSV2Ss is used at the same location, change the communicationYou may set the channel from 1 to 9.When the Sleep Mode is turned ON with the RC60, the RLSV2S will change to the Standby. Mode Laser OFF, head rotation OFF and auto leveling OFF.There are two ways to revert from the Sleep Mode. After reverting from the Sleep Mode, all previous settings are maintained.C6.2 Height Alert Functionp. 28First check, and then make adjustments accordingly.Handle. Control PannelX laser positionStaff or WallThe screen will be in the Xaxis check and adjusting mode. Auto leveling on the RLSV2S is complete and the laser will emit.

When rotating the RLSV2S, ensure that theThe RLSV2S auto leveling is complete and the laser will emit.X2 laser positionWhen checking and adjustingPress theThe screen will switch to the YAdjustment for X axis is complete. Exceeding the range of adjustment. C12. Error Displayp. 62. The RLSV2S is calculating the correction value. Do not touch the RLSV2S untilPerform the following check after completing “Horizontal Calibration” on the previous page. Cone Error. Wall A. StandardWall B. Wall BGrade should be set to 0.00% inDo not change the axis orientation of the RLSV2S. Turn the RLSV2S on.Perform the following check only after completing “Horizontal Calibration” and “Horizontal. Rotation Cone Error”.Staff. Nail 1. Securely position Nail 1 and Nail 2 exactly 30m apart.At this time the staff height for Nail 1 and Nail 2 should recorded as h1 and h2 mm. CheckAlign read the elevation of the laser beam in millimeters at Nail 1 and Nail 2. Designate these elevations as “h3” at Nail 1, and “h4” at Nail 2.If the calculated result is the range of 0.990% 1.010%, the instrument is normal. If the calculated result for either axis is out of the range, contact your dealer or Topcon. Repeat the procedure aligning the “X” axis on the line created by Nail 1 and Nail 2.BeamLabel sensorApprox.10mStandard lineLaser beam. Ensure that the laser beam is at the LS80LIf the difference exceeds 1 mm, move on toPress theIf the screen below is displayed, the adjustment is complete. Error Displayp. 62Do not use ether,AA size dry cellLaser output. Safety standard for laser beam. Automatic correction range. Grade setting range. Accuracy. Manual slope settable range. Line control during vertical rotation. Rotation speeds. Operating range. Laser diode Visible, 635nmCDRH FDA Class IIIa, IEC Class 3R. The slope range is increased or decreased according to the tilt ofNiMH battery pack BT74Q 7000mAh. Charging time Approx. 13 hours Using with AD15. Operating time Approx.

90 hoursUsing with alkaline manganese. Approx. 55 hours Using with NiMH battery packProtection against water and dust. Operating temperature. Storable temperature range. IO aoieic aeoiau. Dimensions. Laser beam height. Weight. Tripod screw. IP66 Based on the standard IEC60529. RLSV2S height alert warningRLSV2S battery warningPower source. Protection against water and dust. WeightApprox. 3.5 months depends on the nature of use. IP66 Based on the standard IEC60529LS80L Back side display area. Beam detection window. Beam detection precision. High precision. Normal precision. Beam detection indication. Power source. Operating time. Auto shutoff delay. Storage temperature. WeightLiquid crystal both sides and buzzerApprox. 120 hours Using alkaline manganese dry cell batteries. Approx. 30 minutes without beamdetection. IP66 Based on the

standard IEC60529Error Display. If an error is displayed, follow the procedures shown below. C6.2 Height Alert Functionp. 28. RLSV2S setting exceeds the leveling range. Reset tilting to the direction to raise the X side. AlternateError Display. Transmission error with remote control. Change both the RLSV2S and RC60 to other channel. If the error persists, check the transmissionMore than 2 RLSV2S devices are within the transmission range of the. RC60, making transmission impossible. Change the channel for bothExceeding the adjustment range. Turn the power of the RLSV2S OFF, turn ON the power back againError DisplayTransmission not possible with the RLSV2S. Remove and replace the dry cell batteries from the RC60. Wireless function error for the RLSV2S. Unable to transmit with the RC60. Turn the power for the instrument off, and then turn it back on.Turn the power for the instrument off, and then turn it back on. E70’s. Slope function error. Turn the power for the instrument off, and then turn it back on. E80’s. Leveling incomplete. Turn the power for the instrument off, and then turn it back on.

Turn the power for the instrument off, and then turn it back on.Regulations. FCC Compliance. This device complies with Part 15 of the FCC Rules. Operation is subject to theThese limits are designed toThis equipment generates, uses, and canOperation of this equipment in a residential area is likely to cause harmfulThis equipment should be installed and operated with at least 20cm and moreEnd user cannot modify this transmitterDeclaration of Conformity. Trade NameTOPCON CORPORATION. Manufacture. Name TOPCON CORPORATION. Address 751, Hasunumacho, Itabashiku, Tokyo, 1748580 JAPAN. Country JAPAN. U.S.A. Representative. Responsible partyTOPCON POSITIONING SYSTEMS,INC. Address 7400 National Drive Livermore, CA94551, U.S.A. Telephone number9252458300Country. California,Proposition65California,BatteriesCountry. Regulations. The term “IC” before the radio certification number only signifies that. Industry Canada technical specifications were met. CanadaCountry. Australia. CTickPlease inquire below if you wish to receive a copy of Topcons Declaration of. Conformity. Topcon Europe Positioning B.V.Country. RegulationsDirectivePDF Version 1.4. Linearized Yes. Page Count 82. XMP Toolkit XMP toolkit 2.9.113, framework 1.6.