



Trimble® Earthworks

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Ohio. You hereby consent and agree not to contest, such jurisdiction, venue and governing law.

3.2 - Notwithstanding Section 3.1, if you acquired the Product in Canada, this Agreement is governed by the laws of the Province of Ontario, Canada. In such case each of the parties to this Agreement irrevocably attorns to the jurisdiction of the courts of the Province of Ontario and further agrees to commence any litigation that may arise under this Agreement in the courts located in the Judicial District of York, Province of Ontario.

3.3 - Official Language. The official language of this Agreement and of any documents relating thereto is English. For purposes of interpretation, or in the event of a conflict between English and versions of this Agreement or related documents in any other language, the English language version shall be controlling.

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Compliance notices

3.1 US FCC regulations

The following statement applies to these devices:

- ┆ EC520-W electronic control module (FCC ID: K7T-WIFIHU2S)
- ┆ TD520 display (FCC ID: TLZ-NM230NF)
- ┆ GS520 grade sensor ┆ AA510 audible alarm ┆ CI510 CAN interface

Note: This equipment has been tested and found to comply with the limits for a Class  B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Changes or modifications not expressly approved by the party responsible for compliance might also void the user's authority to operate the equipment. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ┆ Reorient or relocate the receiving antenna.
- ┆ Increase the separation between the equipment and receiver.
- ┆ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ┆ Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

3.2 Canadian license-exempt RSS standards

The following statement applies to these devices:

- ┆ EC520-W electronic control module (IC: 2377A- WIFIHU2S)
- ┆ TD520 display (IC: 6100A- NM230NF)
- ┆ GS520 grade sensor

- ▮ AA510 audible alarm
- ▮ CI510 CAN interface

3.2.1 CAN ICES-3 (B)/NMB-3(B)

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and;
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme avec Industrie Canada RSS standard exempts de licence (s). Son fonctionnement est soumis aux deux conditions suivantes:

1. Cet appareil ne peut pas provoquer d'interférences; et
2. Cet appareil doit accepter toute interférence, y compris les interférences pouvant entraîner un mauvais fonctionnement de la appareil.

3.3 European Union CE compliance

The following statement applies to these devices:

- ▮ EC520-W electronic control module
- ▮ TD520 display
- ▮ GS520 grade sensor
- ▮ AA510 audible alarm
- ▮ CI510 CAN interface



These devices are compliant with the following Directives and standards

- ▮ Machinery 2006/42/EC
- ▮ RoHS 2011/65/EU
- ▮ ISO 13766:2006
- ▮ ISO 13309:2010

The EC520-W electronic control module and the TD520 display are also compliant with the following additional Directives and standards:

- ▮ Radio Equipment Directive 24/53/EU
- ▮ IETSI EN 300-328 V2.1.1
- ▮ ETSI EN 301-489-1 V2.1.0
- ▮ ETSI EN 301-489-17 V3.1.1

3.4 European Union recycling compliance

These products comply with the WEEE Directive 2012/19/EU. For recycling in Europe call:

+31 479 53 24 30

To request instructions by writing:

Trimble Europe BV

C/O Menlo Worldwide Logistics

Meerheide 45

5521 CZ Eersel, NL



3.5 Australian and New Zealand AS/NZS 55022 compliance

AS/NZS 55022 compliance applies to these devices:

- EC520-W electronic control module
- TD520 display
- GS520 grade sensor
- AA510 audible alarm
- CI510 CAN interface



3.6 Japan Radio Type Approval

Construction Design Certificates apply to these devices:

- EC520-W electronic control module (208-160089, R - 201-16379 and T- D 160 253 201)
- TD520 display (R - 201-16379 and T- D 160 253 201)



3.7 RoHS Statement

This device conforms to RoHS (Reduction Of Hazardous Sub-stances) European Union regulations that set maximum concentration limits on hazardous materials used in electrical and electronic equipment.



CAUTION: RISK OF EXPLOSION IF BATTERY IS DISPOSED OF INCORRECTLY. DISPOSE OF THE DEVICE AND THE BATTERY ACCORDING TO INSTRUCTIONS FOR ELECTRONIC WASTE.

3.8 Taiwan


低功率電波輻射性電機管理辦法

第十二條：經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條：低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。低功率射頻電機需忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

SAR 標準值2.0W/Kg，送測產品實測值為0.545w/Kg

3.9 Taiwan–Battery Recycling Requirements

The product contains a removable Lithium-ion battery. Taiwanese regulations require that waste batteries are recycled. 

廢電池請回收

Safety information

Most accidents that involve product operation, maintenance and repair are caused by failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing potentially hazardous situations before an accident occurs. A person must be alert to potential hazards. This person should also have the necessary training, skills and tools to perform these functions properly.

Improper operation, lubrication, maintenance or repair of this product can be dangerous and could result in injury or death.

Do not operate or perform any lubrication, maintenance or repair on this product, until you have read and understood the operation, lubrication, maintenance and repair information.

Safety precautions and warnings are provided in this manual and on the product. If these hazard warnings are not heeded, bodily injury or death could occur to you or to other persons.

The hazards are identified by the “Safety Alert Symbol” and followed by a “Signal Word” such as “DANGER”, “WARNING” or “CAUTION”. The Safety Alert “WARNING” label is shown below.



WARNING – This alert warns of a potential hazard which, if not avoided, can cause severe injury.

The meaning of this safety alert symbol is as follows:

Attention! Become Alert! Your Safety is Involved.

The message that appears under the warning explains the hazard and can be either written or pictorially presented.

Operations that may cause product damage are identified by “NOTICE” labels on the product and in this publication.

Trimble cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this publication and on the product are, therefore, not all inclusive. If a tool, procedure, work method or operating technique that is not specifically recommended by Trimble is used, you must satisfy yourself that it is safe for you and for others. You should also ensure that the product will not be damaged or be made unsafe by the operation, lubrication, maintenance or repair procedures that you choose.

The information, specifications, and illustrations in this publication are on the basis of information that was available at the time that the publication was written. The specifications, torques, pressures, measurements, adjustments, illustrations, and other items can change at any time. These changes can affect the service that is given to the product. Obtain the complete and most current information before you start any job. Dealers have the most current information available.

4.1 Laser Safety

As with any bright light source, such as the sun, electric welding arcs or arc lamps, common sense applies:

- ▮ DO NOT look into the laser aperture when the laser is on.
- ▮ Viewing laser output with telescopic optical instruments (for example, telescopes and binoculars) may pose an eye hazard.
- ▮ Do not remove any warning signs from the laser.
- ▮ Use of a laser transmitter by personnel that are not trained on the product may result in exposure to hazardous laser light.

For further information regarding safe use of lasers, refer to the IEC 60825-1 2007, or the manufacturer's documentation supplied with your laser transmitter.

4.2 Magnet Safety

The neodymium magnets supplied with the magnetic display mount are very strong. Handling them with care is necessary to prevent personal injuries, and property damage:

- ▮ Pacemakers may be damaged or switch to "Test Mode" in the presence of a strong magnetic force. If a pacemaker is in use, keep a minimum of 30 cm (1 foot) distance.
- ▮ Be extremely careful when handling the magnets near other magnets or ferrous metal. Losing control of a magnet may result in damage to intervening objects, such as a finger or a cab window.
- ▮ Do not remove any warning signs from the magnets.
- ▮ The strong magnetic fields of the magnets can damage electronic devices such as hearing aids, items that rely on magnetic storage media such as credit cards, bank cards, and computers, and items containing ferromagnetic components such as mechanical watches.

4.3 Crushing prevention and cutting prevention

Support the equipment properly when you work beneath the equipment. Do not depend on the hydraulic cylinders to hold up the equipment. An attachment can fall if a control is moved, or if a hydraulic line breaks.

Unless you are instructed otherwise, never attempt adjustments while the machine is moving. Also, never attempt adjustments while the engine is running.

Whenever there are attachment control linkages, the clearance in the linkage area will increase or the clearance in the linkage area will decrease with movement of the attachment. Stay clear of all rotating and moving parts.

Keep objects away from moving fan blades. The fan blade will throw objects or cut objects.

Do not use a kinked wire cable or a frayed wire cable. Wear gloves when you handle wire cable.

When you strike a retainer pin with force, the retainer pin can fly out. The loose retainer pin can injure personnel. Make sure that the area is clear of people when you strike a retainer pin. In order to avoid injury to your eyes, wear protective glasses when you strike a retainer pin.

Chips or other debris can fly off objects when you strike the objects. Make sure that no one can be injured by flying debris before striking any object.

4.4 Operation

Clear all personnel from the machine and from the area.

Clear all obstacles from the machine's path. Beware of hazards (wires, ditches, etc).

Be sure that all windows are clean.

Secure the doors and the windows in the open position or in the shut position.

Adjust the rear mirrors (if equipped) for the best visibility close to the machine.

Make sure that the horn, the travel alarm (if equipped), and all other warning devices are working properly.

Fasten the seat belt securely.

Warm up the engine and the hydraulic oil before operating the machine.

Only operate the machine while you are in a seat.

The seat belt must be fastened while you operate the machine. Only operate the controls while the engine is running.

While you operate the machine slowly in an open area, check for proper operation of all controls and all protective devices. Before you move the machine, you must make sure that no one will be endangered.

Do not allow riders on the machine unless the machine has the following equipment:

- Additional seat
- Additional seat belt
- Rollover Protective Structure (ROPS)

Note any needed repairs during machine operation. Report any needed repairs.

Avoid any conditions that can lead to tipping the machine. The machine can tip when you work on hills, on banks and on slopes. Also, the machine can tip when you cross ditches, ridges or other unexpected obstructions.

Avoid operating the machine across the slope. When possible, operate the machine up the slopes and down the slopes.

Maintain control of the machine.

Do not overload the machine beyond the machine capacity.

Be sure that the hitches and the towing devices are adequate.

Never straddle a wire cable. Never allow other personnel to straddle a wire cable.

Before you maneuver the machine, make sure that no personnel are between the machine and the trailing equipment.

Always keep the Rollover Protective Structure (ROPS) installed during machine operation.

Monitor the location of mounted components. Ensure that the components do not come into contact with other parts of the machine during operation.

4.5 Exposure to radio frequency (RF) signals

This system uses devices that contain radio transmitters and receivers. The radiated output power is far below the international radio frequency exposure limits. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on the safety standards previously set by international standards bodies:

- ▮ American National Standards Institute (ANSI) IEEE. C95.1-1992.
- ▮ National Council on Radiation Protection and Measurement (NCRP). Report 86. 1986.
- ▮ Int'l Commission on Non-Ionizing Radiation Protection (ICNIRP) 1996.
- ▮ Ministry of Health (Canada), Safety Code 6. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

Use of unauthorized or modified antennas may impair signal quality and damage a device, causing loss of performance. To assure optimal performance, and ensure human exposure to RF energy is within the guidelines set forth in the relevant standards, always use a device in its normal-use position.

Maintain a minimum 20cm distance from radio transmitters when they are in use. Avoiding contact with the antenna area when a device is IN USE optimizes the antenna performance.

4.5.1 Exposure to radio frequency radiation from Bluetooth and WLAN transmitters

Devices are approved as portable devices with respect to Radio Frequency (RF) exposure compliance. The radiated output power of the internal wireless radio transmitters is less than 100 milliwatt, which results in exposure levels far below the FCC radio frequency exposure limits, even when operated in close proximity to the body. The internal wireless radios operate within guidelines found in international radio frequency safety standards and recommendations, which reflect the consensus of the international scientific community. Trimble therefore believes the internal wireless radios are safe for use by

users. The level of electromagnetic energy emitted is hundreds of times lower than the electromagnetic energy emitted by wireless devices such as mobile phones. However, the use of wireless radios may be restricted in some situations or environments, such as on aircraft. If you are unsure of restrictions, you are encouraged to ask for authorization before turning on the wireless radios.

4.5.2 Exposure to radio frequency radiation from cellular wireless transmitters

Devices equipped with wireless cellular modem radios have been designed and manufactured to meet safety requirements for limiting exposure to radio waves. When used in accordance with the instructions set forth in this manual, the equipment has been independently verified to not exceed the emission limits for safe exposure to radio frequency (RF) energy as specified by the Federal Communications Commission of the U.S. Government in 47 CFR §2.1093. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organization through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

4.6 Telecommunications & Internet Association (TIA) information

Hearing Aids: Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your wireless service provider, or call customer service to discuss alternatives.

Pacemakers and Other Medical Devices: The Health Industry Manufacturers Association recommends a minimum separation of six inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers should use the ear opposite the pacemaker to minimize the potential for interference. Persons with pacemakers should exercise great caution if using a hands-free device such as a headset, as these persons may be at greater risk of the device not maintaining the recommended minimum six inches of separation from the pacemaker. If you have any reason to suspect that interference is taking place, turn the device OFF immediately.

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn the device OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

4.7 Warnings



WARNING – When replacement parts are required for this product Trimble recommends using Trimble replacement parts or parts with equivalent specifications including, but not limited to, physical dimensions, type, strength and material. Failure to heed this warning can lead to premature failures, product damage, personal injury or death.



WARNING – When transporting machines with removable sensors such as GNSS receivers or UTS targets installed, if the sensor mounting bracket clamp loosens, then the sensor may be dislodged from the machine which may result in injury or death. Always remove and store removable sensors prior to transport.



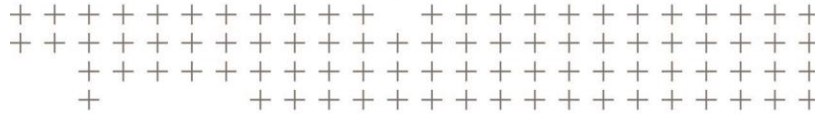
WARNING – When removing or installing removable sensors such as GNSS receivers or UTS targets, if the sensor is accessed improperly, then a fall may result in injury or death. Always follow site, state or national Health and Safety guidelines when removing or installing removable sensors.



WARNING – The magnets on the magnetic display mount are strong. If parts of your hands get between two magnets when you move them, the magnets may suddenly move and pinch or clamp the skin. When the magnets are close together, position your hands so they are not between the two magnets.



WARNING – If you have a pacemaker and handle the magnetic display mount, the magnet can affect the function of the pacemaker and cause physical harm. Remain at least 30 cm (1 foot) from the magnetic display mount if you have a pacemaker.



Notices

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