Geoscanners AB®

GTP-901

The GTP-901 is a survey tripod for borehole antenna applications demanding extra height under the measuring and cable feeding pulley. The tripod has an integrated GSSI compatible encoder unit to facilitate the distance mode in borehole applications. The unit is made of strong materials such as fiber glass reinforced pipes and POM milled parts.

General Specifications:

Folded Length	137cm
Unit Weight	4.95kg
Maximum Height under the Pulley	152cm
Minimum Height under the Pulley	86cm
Maximum Load Weight	50 kg (equivalent to 200meters of std. Cable)
Fastener Adjustment free run	210 mm

Encoder Specifications:

Power	5VDC (20mA)
Output Format	Quadrature Channels A and B, no index
Calibration Value (on 12mm Cable)	129 Ticks/meter

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Assembly Instructions:

1. Hold firmly the pulley carriage in one hand.

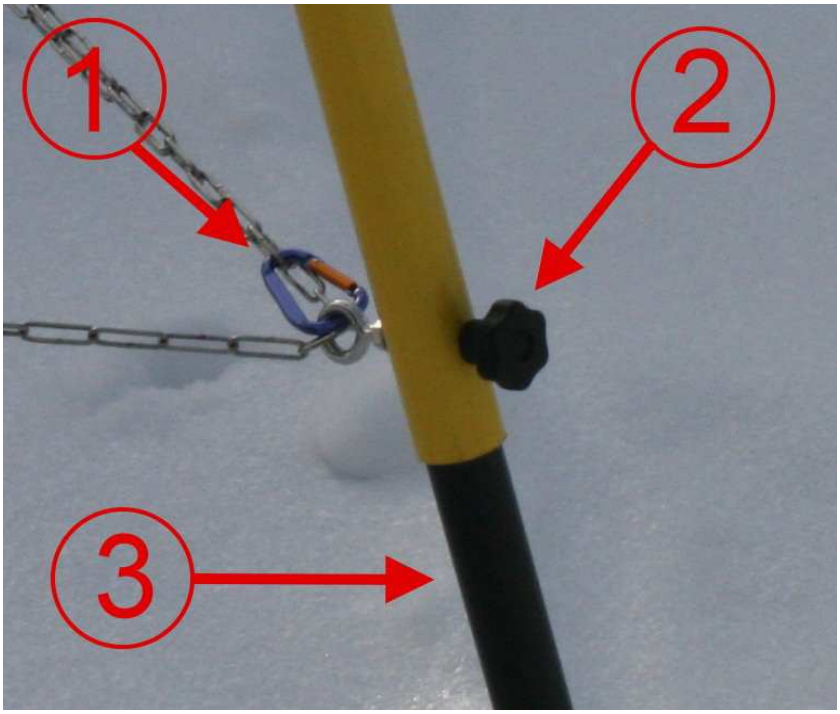
2. Insert the vertical fastener into the hole in the top part of the pulley carriage. Make sure that the white POM bush is retracted back.

3. After the threaded fastener has been almost completely inserted press the white POM bush so it sits firmly in the upper "T" junction of the pulley carriage.

4. Fix the already assemble carriage to the top junction of the GTP-901 and make sure that the two nuts, upper and down, are secure. That will prevent the fastener to have lateral movements.

5. the fully assembled carriage should look like shown in the picture below

Changing the height and/or the span of the Tripod:



1. This is the fast release to enlarge or shorten the length of the metal chain in order to modify the span of the leg's spread. In some situations a better grip with the ground requires a larger span, while in others a smaller span is preferred.

2. Unscrew this knob to remove the locking eye-pin from the leg. Please pay attention that the knob will not allow you to apply force to the fiber glass pipe, do not force it into going in more than it allows.

3. These telescopic legs have two sets of holes allowing the tripod to be set for two different heights. The GTP-901 is shipped with the lowest height set. Unscrew the knob (2) as described above. Remove the eye-pin and slide out the black telescopic leg until you see the holes for the second set up. Insert back the eye-pin and secure it with the knob(2).

Position of the quick release for the metal chain:

The encoder unit:

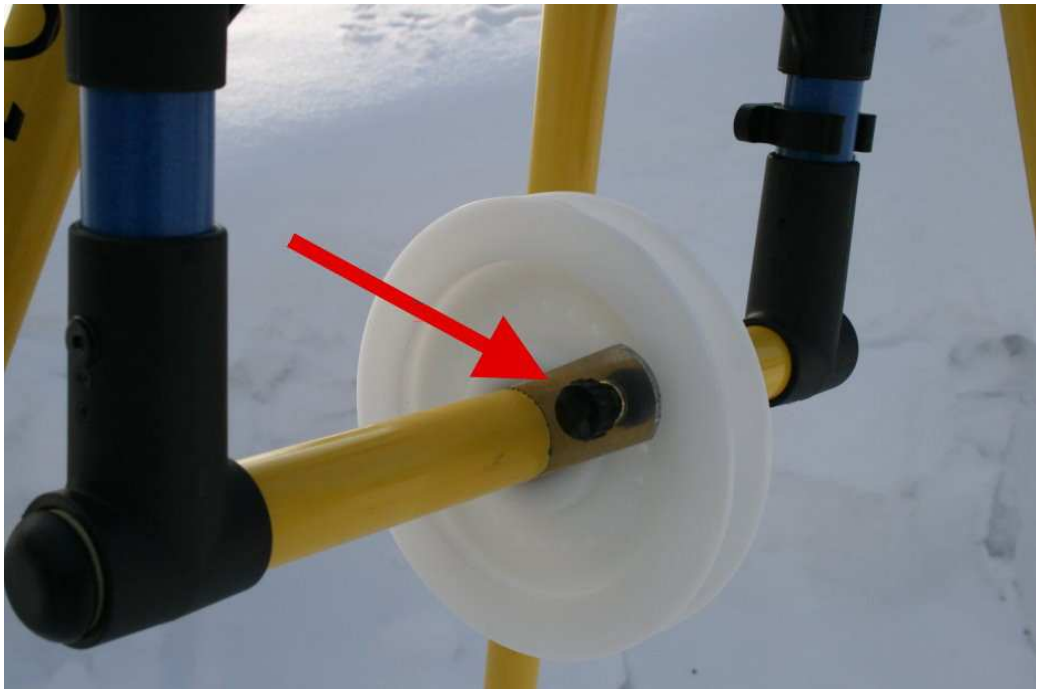
The encoder unit doesn't require any particular care. The magnets setting the impulses for the survey wheel input in the antenna or radar unit, are embedded in the pulley and protected against moisture or any other ambient effects. The encoder unit is already aligned to provide effective coupling between the magnets and the encapsulated hall sensor.

It is highly recommended that you calibrate the amount of pulses coming out of the encoder regularly. Specially that is true if you are using cables which have different cross diameters.

The required cable to connect to the antenna or radar unit is supplied with the GTP-901. The standard cable length is two (2) meters, but longer cables can be ordered on demand.

A display unit to control the distance is available as an option.

Locking the Pulley:



To stop the pulley from rotating screw in the knob shown in the picture so it enters one of the holes in the pulley. The pin has been made short enough to prevent going too far into the pulley, this is a fixing pin not a pass through one.

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