

# GST-806

## Assembly Instruction



GST-806 is a vehicle mounted antenna holder, designed for high speed GPR surveys. Its height is easily adjusted to fit different vehicles.

GST-806 vehicle mount can be used with all Geoscanners airborne antennas from the Gekko-, HA- and FLB-series. It can also be used with the GCB-1000 ground coupled antenna with the proper adapter and restricted speed of acquisition.

The standard GST-806 can easily be customized for specific mounting points on a vehicle or deployment needs. Currently there are two standard accessories: vehicle mount for snow mobiles and skis for snow deployment. Please contact us if you need other customization options.

\*No antennas or accessories are included with GST-806. Antennas and accessories are purchased separately. The antenna in this instruction is an examples an antenna that can be used with GST-806. For more information contact the Geoscanners AB Sales Department +46(0)92153020. ©2015 Geoscanners AB, Sweden.



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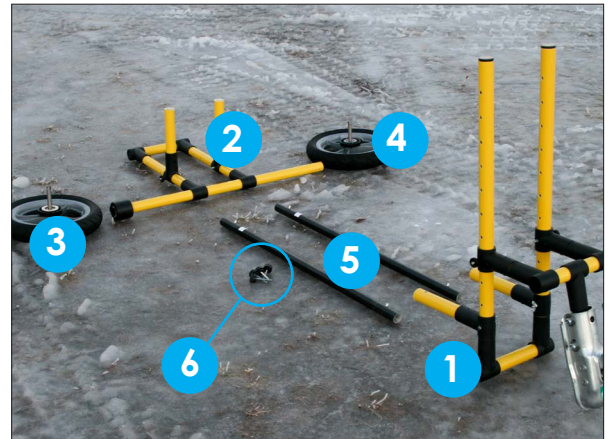
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REV:EN261114-02

# GST-806 ASSEMBLY INSTRUCTION

## List of items

1. Front frame with a car hook.
2. Back frame.
3. Wheel with a magnetic ring for the encoder.
4. Wheel without a magnetic ring.
5. Support for the antenna (x2).
6. Antenna unit screws (x4).



## GST-806 Cart Assembly



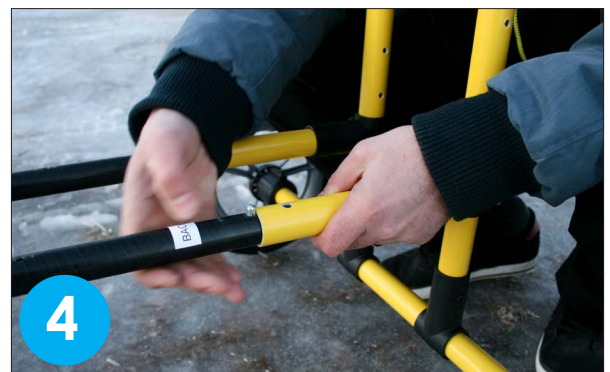
Insert the wheel with the magnetic ring to the back frame as shown above.



Insert the wheel without the magnetic ring on the other side of the back frame.



By pressing down the locking mechanism, insert one of the black pipes into the back frame. It will lock automatically once in place.



Repeat the previous step on the other side.



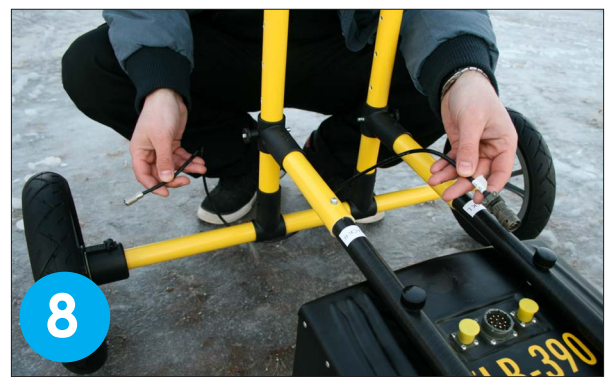
Repeat steps 3-4 to insert the black pipes into the front frame of GST-806.



Insert the provided antenna screws.



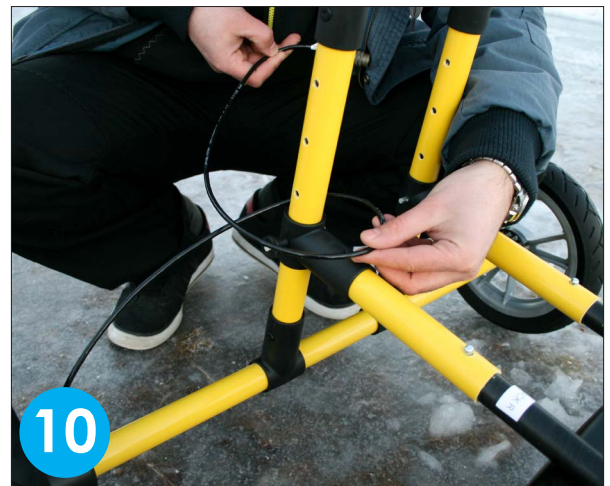
Use the screws to secure your antenna. The antenna should be oriented so that the labels are readable from the front side of the vehicle mount.



Connect the survey wheel cable once your antenna is in place.



Connect one end of the survey wheel encoder cable to your ENC-820 survey wheel encoder.



Always wrap the cable around one of the pipes of the back frame. This minimizes the chance of breaking the cable.



Connect the survey wheel encoder cable to your antenna.



Connect the provided control cable to your antenna.



Secure the control cable at the front of the vehicle mount. Allow for enough slack so that the cable is not stretched. Make sure that it is not hanging close to the ground neither.

## GST-806 Customization Options

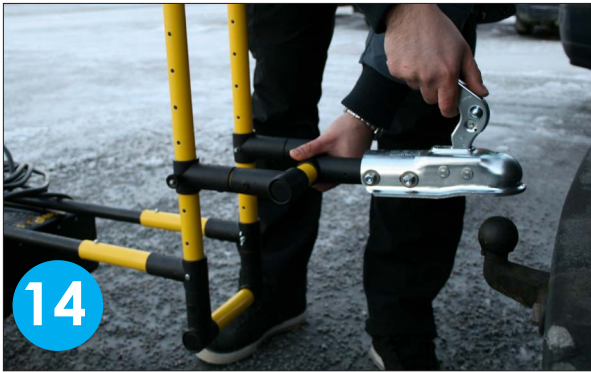


Custom vehicle mount for snow mobiles. The assembly instructions are found on page 6.



Ski accessory for deployment on snow. The assembly instructions are on page 7.

# CONNECTING GST-806 TO A VEHICLE



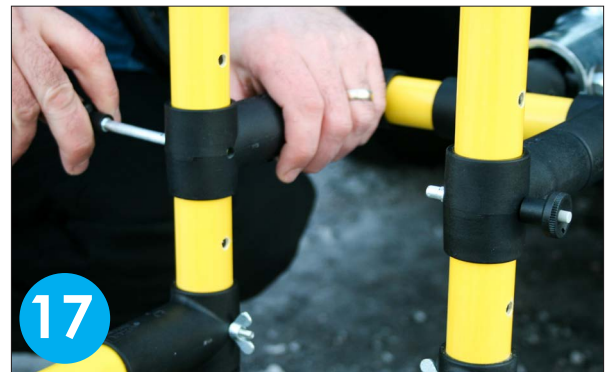
Connect the provided hook to your vehicle. Make sure that it is secured.



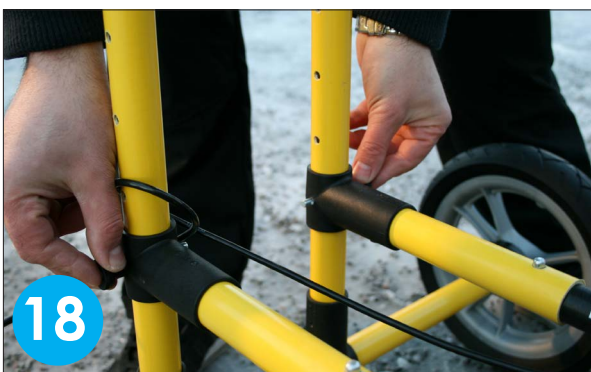
Use quick release bolts to adjust the height of the vehicle mount and antenna.



Adjust the front height of the GST-806 vehicle mount by sliding the front frame up or down to different pre-drilled positions.



Use the pre-drilled holes and quick-release bolts to secure the position of the front frame.



Repeat the process of the height adjustment on the back frame of GST-806 if necessary.

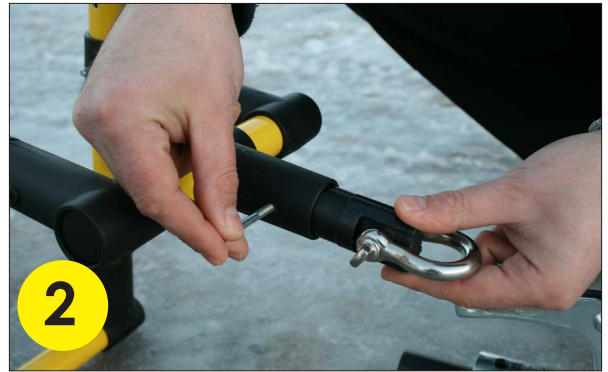


Make sure that the height adjustments position the antenna as parallel to the ground as possible. This is done to ensure a good quality of your data collection.

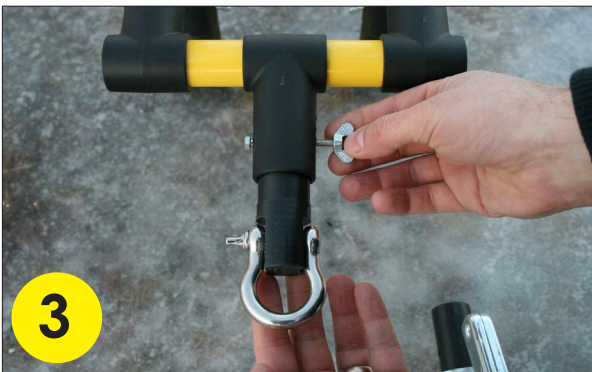
# SNOW MOBILE EXTENSION FOR GST-806



Remove the standard car hook from the front frame and insert the snow mobile extension as shown above.



Insert the provided locking screw.



Secure the snow mobile extension by using the provided wingnut for your locking screw.



GST-806 with the snow mobile extension.

# SKI EXTENSION FOR GST-806



Slide the provided ski under one of the GST-806 wheels.



Lift the metal fixture so that it presses the wheel.



Pull the ski bands around the wheel.



Secure the bands as shown above.



Repeat steps 1-4 on the other wheel.