GSH-490 Assembly Instruction





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GSH-490 ASSEMBLY INSTRUCTION

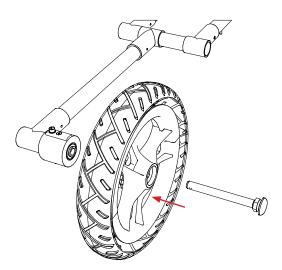
List of Items

- 1. GSH-490 trailer with survey wheel
- 2. HDR-93x rough terrain holder for Akula radar units
- 3. Akula 9000 radar control unit
- 4. GPR antenna with protective skid plate
- 5. Acid lead battery
- 6. User interface laptop
- 7. USB cable
- 8. Survey Wheel cable
- 9. Control Unit cable



GSH-490 Cart Assembly

1. Insert the pin, together with the wheel, in the main frame (and encoder bushing).



- 2. Insert the pull handle into the top of main frame. Please note that the blind rivet on the bottom of the handle should face backwards.
- 3. Secure the connection by inserting the heavy duty fastening pin as you are pressing its button to release the securing ends. Make sure that it goes all the way through and that the securing ends of the fastening pins open fully.

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Antenna and Battery Assembly

IMPORTANT

Before connecting the control cable to the antenna make sure the radar is off or that the other side of the cable is disonnected. Connecting the control cable between the GPR antenna and the radar control unit with the radar on, may cause electrical damage to the control unit and/or antenna. This type of damage is not covered by the warranty, please make sure the radar is always turned off before connecting the control cable.

1. In order to secure the long thumb screws during transportation, they are screwed into an M5 mutter. These mutters need to be removed before placing the main frame over the antenna and screwing the long screws into the antenna fastening points.

 Place the GSH-490 trailer over the antenna with a protective skid plate. Please note the direction of the antenna. When viewed from above it's back should be positioned closer to the survey wheel handle. Secure the antenna with 4 long thumb screws.

3. Mount the battery on the top front of the GSH-490 main frame and secure it with easy release clips.







4. Connect the survey wheel cable to the encoder.

5. Connect the survey wheel connector to the antenna.

6. Connect the main control cable to the antenna connector.







Akula Radar Control Unit Mounting Instruction

1. On a solid surface: open the One Skid Plate with harness (2) by pulling the release on the left side as you pull the shoulder harness into position. Place the control unit, with the logo facing downwards, under the HDR-93x Akula Rough Terrain Holder.

2. Secure the Akula 9000 control unit by fastening it with the four securing screws located on the HDR-93x Akula Rough Terrain Holder.

3. Place the HDR-93x Rough Terrain Holder on the operator and secure it with the provided belt.

4. Place the user interface laptop into the computer holder on the top of the harness









Cable Connection Instructions

IMPORTANT

Before connecting the control cable to the radar unit always make sure the radar is off. Connecting the control cable between the GPR antenna and the radar control unit with the radar on, may cause electrical damage to the control unit and/or antenna. This type of damage is not covered by the warranty. Please make sure the radar is always turned off before connecting the control cable.

1. Connect one side of the USB cable to the corresponding connector on the Akula 9000 radar control unit. Connect the other side of the USB cable to a free USB port on the user interface laptop.

2. Connect the main control cable to the radar control unit.

3. Connect the power supply cable to the radar control unit.

Congratulations! You have succesfully assembled your unit. Now you can turn on the radar control unit and start the GAS acquisition software to start collecting data.





