

SVC-821

Assembly Instruction



The SVC-821 survey cart was specially designed for the U-Explorer Mini system based on the radar control units from the Akula 9000 series, as well as ground coupled antenna from the GCB-series (200MHz-700MHz).

Please follow the instructions below to successfully assemble and use the survey cart.

Note: The information in this document is based on the latest information at the time of publication. Geoscanners AB® reserves the right to make changes at any time, without notice to color, specifications, accessories, materials and models. The system shown in the images is a U-Explorer Mini system equipped with accessories that are not part of the standard configuration. For more information contact the Geoscanners AB Sales Department +46(0)92153020. ©2015 Geoscanners AB, Sweden.



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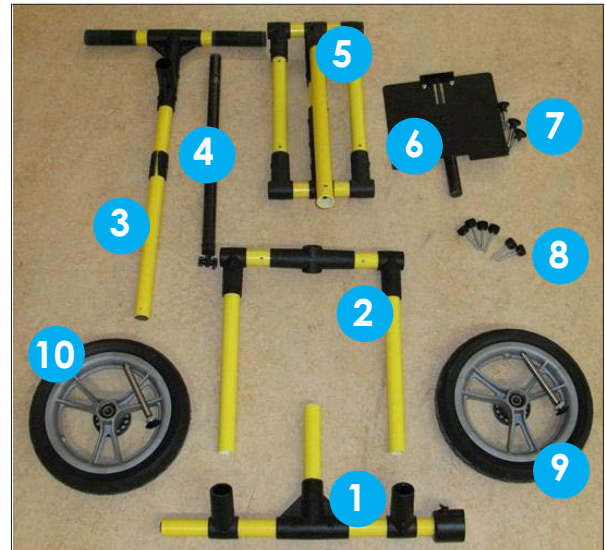
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SVC-821 ASSEMBLY INSTRUCTION

List of items

1. Back axis with an encoder
2. Back frame
3. Handle
4. Angle adjuster
5. Main frame
6. Computer holder
7. Quick release pins
8. Antenna and radar unit screws
9. Wheel with magnetic ring for the encoder
10. Wheel without magnetic rings



SVC-821 Cart Assembly

1. Connect the wheels into the wheel sockets on the back axis (1) using the quick release bolt axes. Pay attention that the wheel with the magnet ring (9) is placed on the **same side** as the encoder.
2. Insert the back frame (2) into the back axis (1) connectors.



3. Insert the angle adjuster (4) into the longer yellow pipe of the main frame (5).



4. Connect the main frame (5) to the back axis(1).



5. Secure the connection with one of the quick release pins (7).

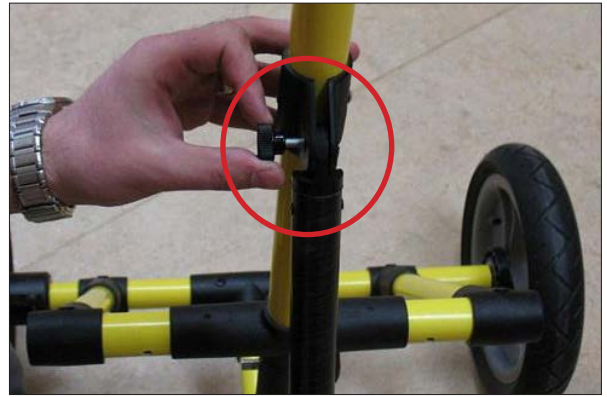


6. Insert the handle (4) through the back frame (2) into the main frame (5).

Secure the connection with one of the quick release pins (7).



7. Extend the angle adjuster (5) so that it can be inserted in the slip connector on the handle (4). Use the provided thumb screw and nut to secure the connection.



8. Use a quick release pin (7) to fit one of the two available holes on the angle adjuster (4) to set the preferred angle of the main frame (5) to the antenna.



System Assembly

1. Insert the computer holder (6) into the T-connector on the handle (3) and secure it in position with one of the quick release pins (7).



2. Position the assembled cart over the antenna and use the four long thumb screws (8) to secure it in position.



3. With the supplied thumbscrews (8) secure your radar control unit Akula 9000 to the back frame. Please note that the On/Off button and the USB output need to face up.



4. The survey cart is now assembled. Now only the control cable, USB cable and the encoder need to be connected to complete the radar configuration.

Connect the survey wheel cable to the encoder on the back axis, then connect the other end to the GPR control unit Akula 9000.



5. Connect the control cable between the Akula9000 unit and the antenna in use.



6. After connecting the control cable you are ready to install the battery in the rear top part of the antenna, where the plastic hinges of the frame are located.

Insert the black belt under the hinges on both sides. Secure the battery in place with the aid of the plastics locks. Connect the battery cable to the power input on your control unit Akula 9000.

The only thing left to do is to connect the supplied USB cable to the radar and then to the user control computer. Now your ground penetrating radar survey system is ready to work.



IMPORTANT

Always make sure to connect and disconnect the control cable while the battery is disconnected, or while the Akula 9000 unit is OFF.

If you connect the control cable with the antenna connected to a control unit that is powered up, there is a risk of damage to your control unit, the antenna or both. It is worth mentioning that this kind of failure is not covered by the warranty. So, please make absolutely sure the radar is OFF before you proceed to connect the control cable to it.