Instructions for setting up the seismic vibrator source type Elvis VII





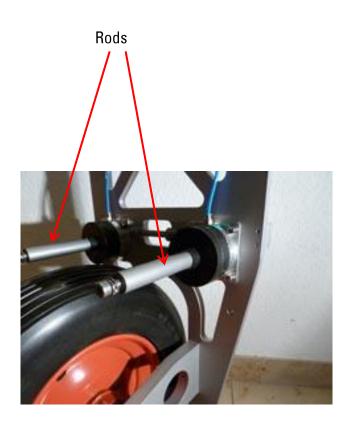
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Telefon: +49 (0) 511 58 21 05 Telefax: +49 (0) 511 59 18 77 E-Mail: info@geosym.de 1. Fix the wheel with 6 screws M 6 x 20 mm.



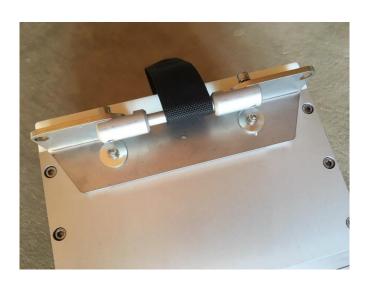
2. Fix the four distance rods onto the frame at the black absorption packers. Screw tightly.





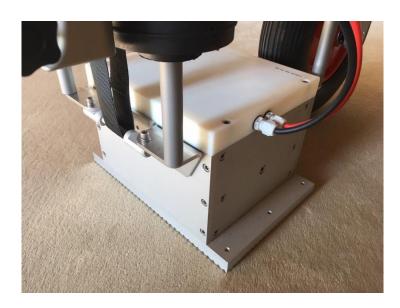
3. Fix brackets with belts onto the source part.





4. Put over frame on top of the source. Make sure that all electrical connections are at right hand side (facing right of direction of motion). Screw one by one to allow a proper mounting.

Fix the belt onto the Frame





5. Apply pressure to absorption packers to 2 bar (red marking is indicating 2 bar on manometer)



6. Put the heavy battery box on top of the frame. Make sure it correctly fits.

Note: Battery connections should face to hand grips.



7. Fix the hand grips with screws for easy transportation of the source.

Marking is "R" for right and "L" for left hand side.



Adjust grip angle for easy handling & lifting.

8. Connect source to battery box (+ red & - black)

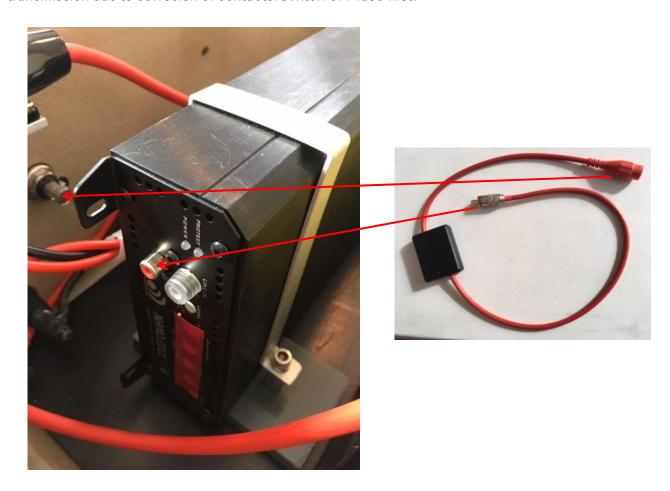


Attention!

Red connector is push/pull connector. To disassemble the connector push in a little bit and then pull out.

9. This picture shows the amplifier module located inside battery box.

It is recommended to disconnect the signal cable after surveying. There might be bad signal transmission due to corrosion of contacts. Switch OFF fuse first!



Blue LED should light at amplifier in case the system is ON.

10. Establish all other connections

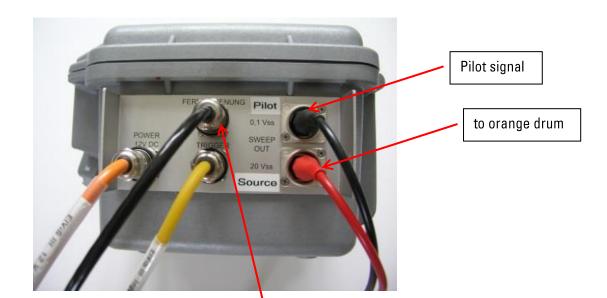
Connect source and sweep generator (grey box) via orange signal cable on drum.





Usually, Sweep Generator is placed close to seismograph perator. It is recommended to unspool the orange cable along the profile. The cable is used to transmit the sweep signal to source via the 20Vss (Source) output at sweep generator.

Connect drum and sweep generator using the short red cable.



Orange cable is for battery connection (use orange battery Peli-case box)

Yellow cable is trigger link to seismograph.

Black cable (on top of yellow cable) is for small remote control.



Black cable (right above the "Source") is to send the pilot sweep for correlation to one of the seismic channel (directly on the seismic cable). We recommend to use either the first or last channel of your seismic line to input the pilot sweep (disconnect geophone and connect pilot cable connector).

The idea is that during data recording also the pilot sweep needs to be recorded. During data processing cross-correlation has to be made. The pilot sweep channel must be specified in your data acquisition software (usually named auxiliary channel).

11. Setting controls at Sweep Generator

Different sweep can be utilized depending on desired frequency range. We recommend to do a trial before the real survey is being made to find out the optimal sweep. To do so, one has to exchange E-Proms each by each and do a seismic recording. Finally, user may decide on visual inspection which sweep gives best signal.



Switch **ON/OFF** to allow operation or end general operation.

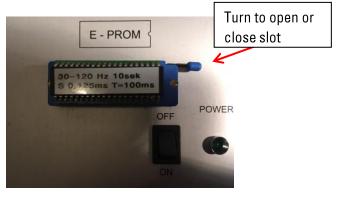
Set **Signal** (+/-) switch to allow different signal directions. Always put back to middle position if you do not operate the unit for longer times.

Insert the E-Prom's correctly (facing towards operator to read what is written on the E-Prom & marking to the right side).

Signal (+/-) switch allows to change polarity of the source movement. Once this is selected you may press Start to run vibrator.



Empty E - Prom slot.

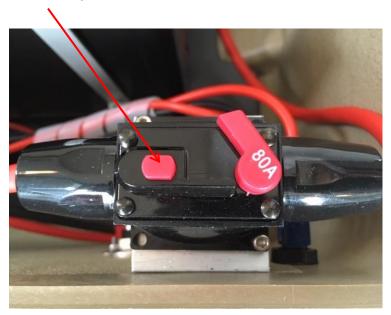


E-Prom slow with E - Prom

Press **Start** to operate.

12. Fuse element 80 A has to be closed for operation. Just turn to close.

Press red button to open connection.



12 V battery is suitable for a day production of 500 Sweeps.

