Assembly procedure of geophone pod

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• Preparation of pre-amp circuit

- Geophone pod assembly
 - Step 1: Geophone make-up
 - Step 2: Closing first flange
 - Step 3: Closing last flange

Preparation of pre-amp circuit

Doing beforehand is recommended

Pre-amp circuit board (front)



Pre-amp circuit board (back)



Solder cables & attach Burndy sockets



Geophone pod assembly (in-clean)

Step1: Geophone make-up



Remove default connector



Cut the cables off



* The rubber ring should be also removed

Strip cable cover



- AWG:20 or .80 mm
- Don't strip all cables



After stripping



Prepare Burndy pin & sweager



Set Burndy pin on the sweager



CRUSH!!



After pin attachment



Step2: Closing the first flange



Prepare canister and 3 rubber rings



* Rubber ring: φ80, 3mm thick

Put "one" rubber ring on the botom



Put geophone, 2 rubber rings on its neck



Side view



Cover the unused cables



Put a metal gascket Ф150



Prepare a conversion flange



Put the conversion flange



Top view (geophone centered)



Geophone protrudes like this



Gap exists without tightening



Gap: ~ 2 mm



Put screws M8x35 w/ washers & tighten them with a torque wrench



* Torque: 10 Nm \rightarrow 13 Nm

The rubbers are pressed after the 10 Nm tightening



After closing the conversion flange



Step3: Closing the last flange



Feedthrough flange



Connector (inside)



Connector (outside)



Arrow & dot hole are opposite



Arrow & dot hole are opposite



Put a metal gascket Φ80



Connect the Burndy pins & sockets

Heat-shrink insulators should be put beforehand

Pin assignment



INPUT_GEO ——	— RED
GND_GEO	WHITE
GND (case) ——	GREEN

Close the pod with the holes aligned



Gap without tightening, < 1 mm



Put the screws M8x30 w/ washers



Tighten the screws with a torque wrench



* Torque: 10 Nm \rightarrow 13 Nm

Gap after tightening



Complete!!



Otsukare sama deshita ;)