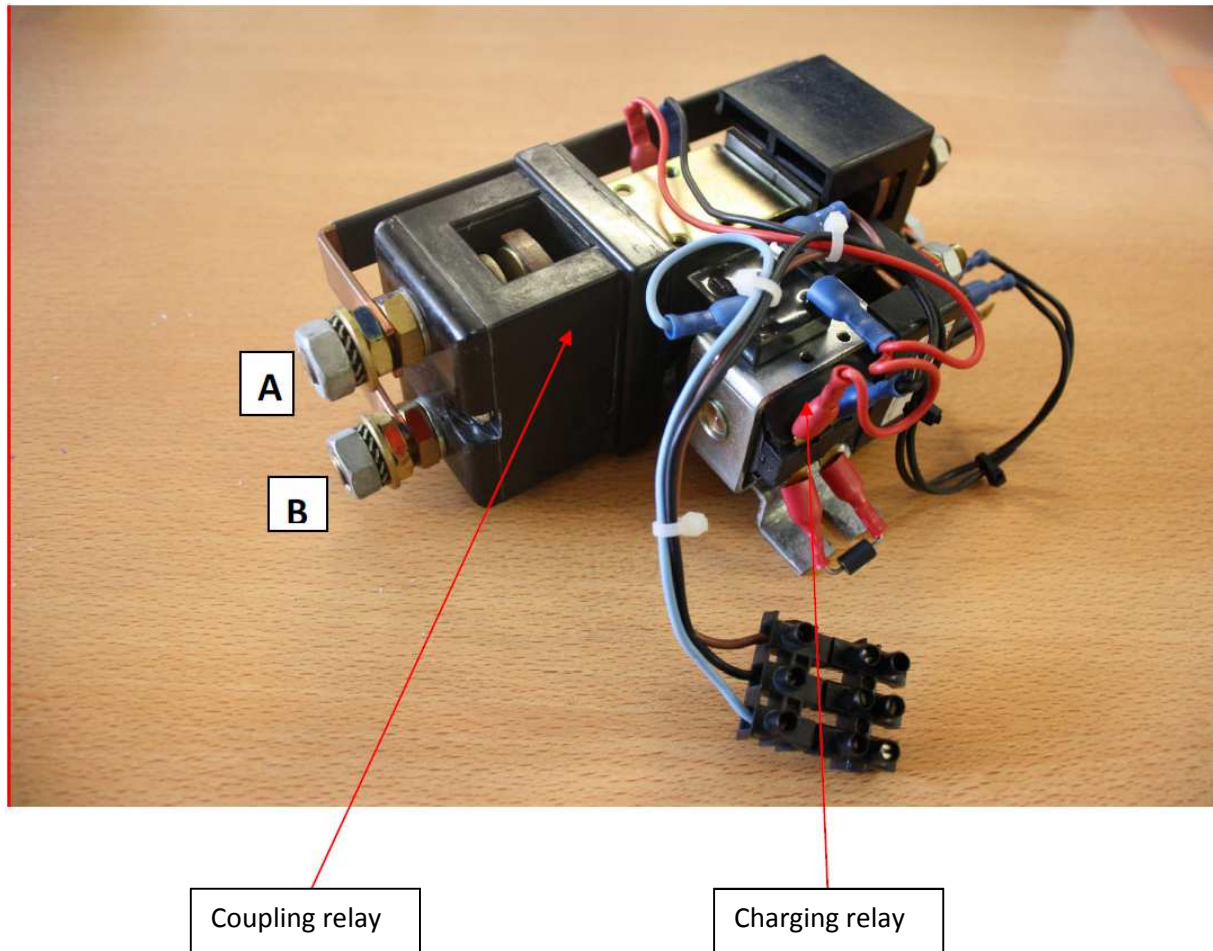


BATTERIES COUPLER MAX POWER

The biggest relay is used to couple two 12V batteries to get 24V.

The small relay is used to cut off the charge (in 12V) when the bow thruster is used, to avoid damages on the alternator.



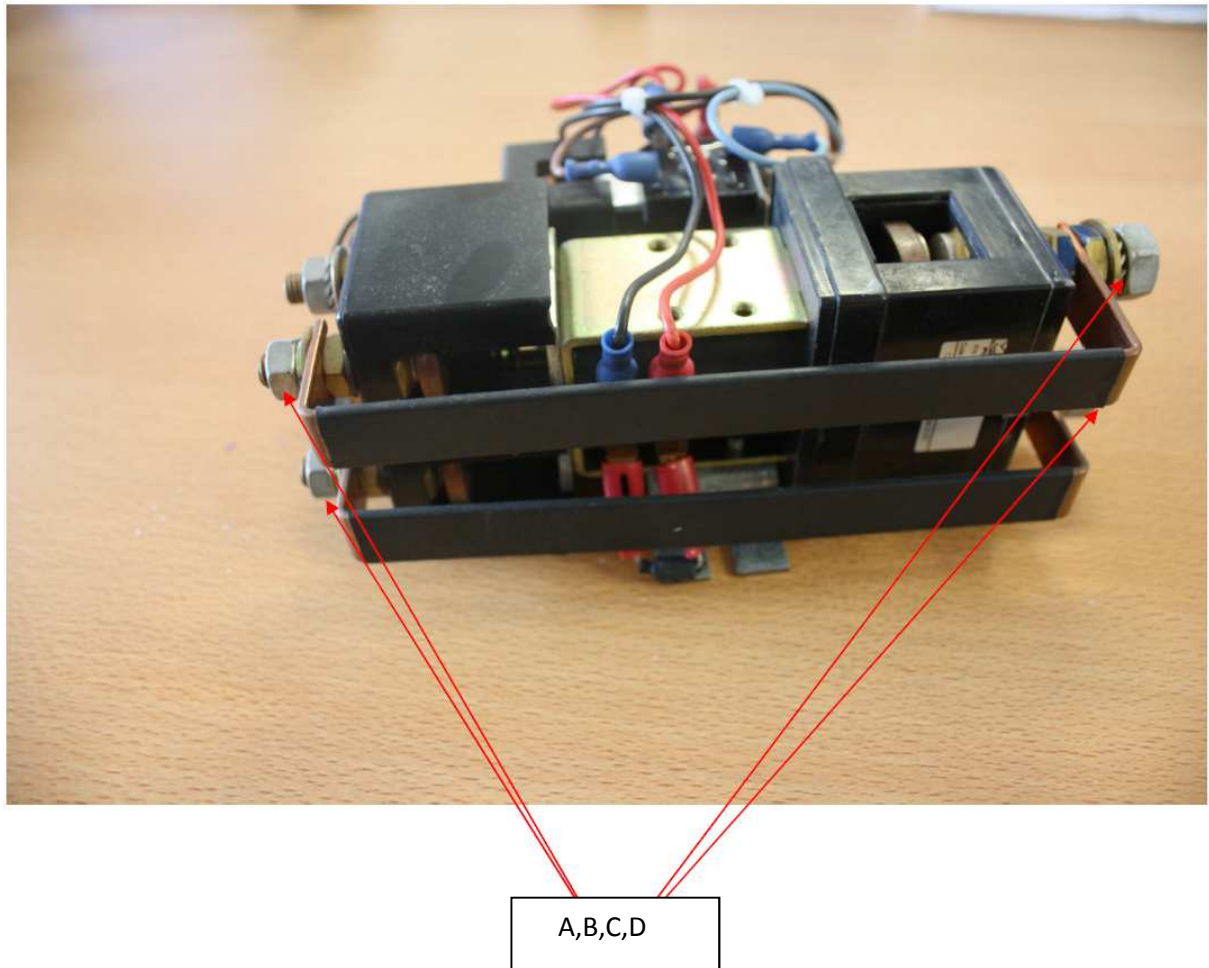
If the engine runs in mid throttle (therefore in 12v), check the correct functioning of the coupling relay.

The relay seems to work normally but if there is 12V at the engine, verify with a Metrix (Ohm setting) the continuity between the connectors A and B.

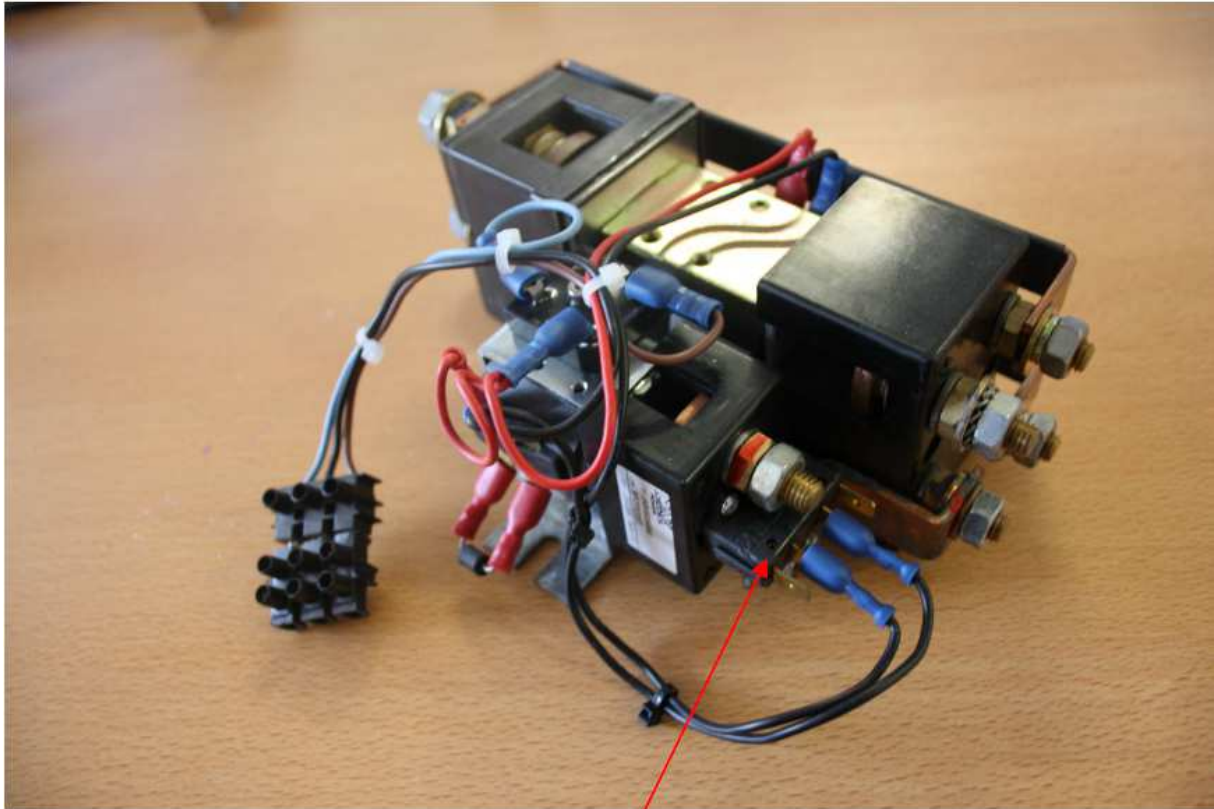
If the relay is in contact but there is no continuity between A and B, remove the Bakelite head and clean it with sand paper.

If the relay doesn't stick or moves with difficulty :

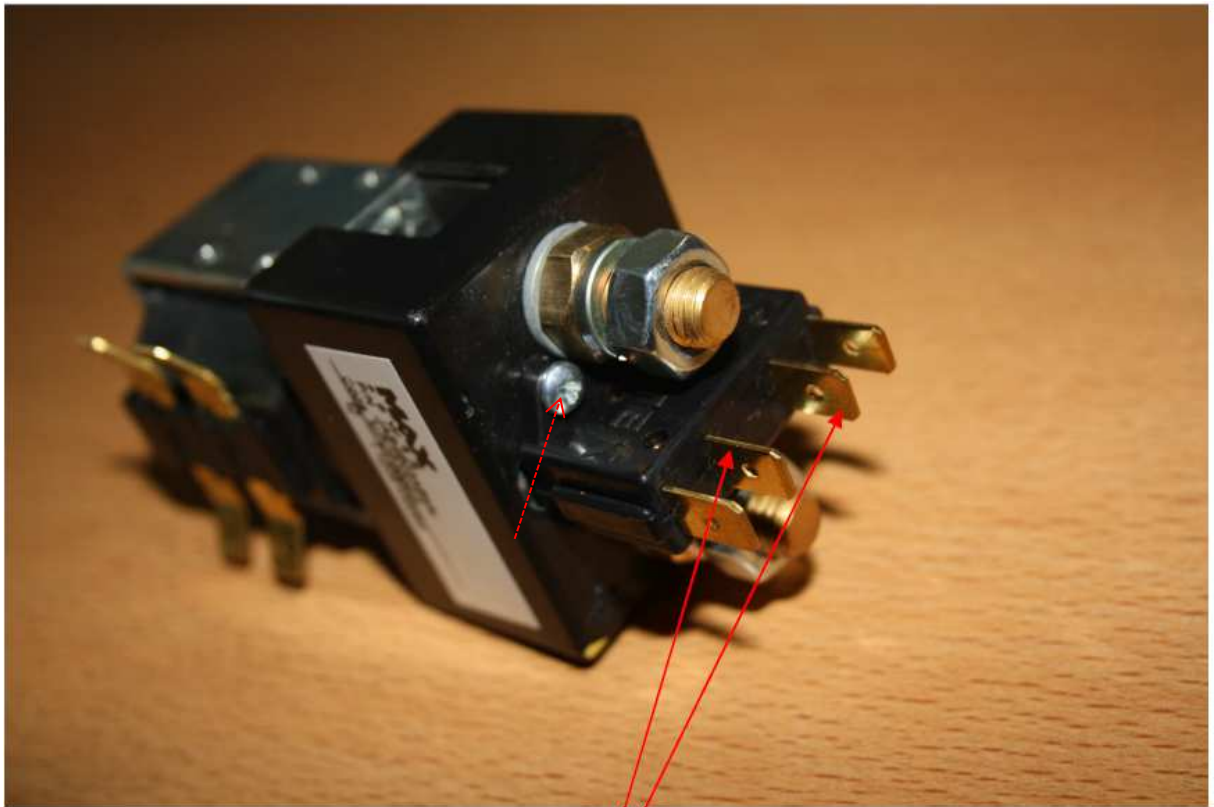
Spray WD40 on the contacts or/and untighten lightly the bolts on the terminals A,B,C,D (a cable too tightened can deform the relay and prevent the contacts to move freely).



If the big relay is no longer working, the small switch can be blocked. Untighten lightly the two screws or remove it and grease it.

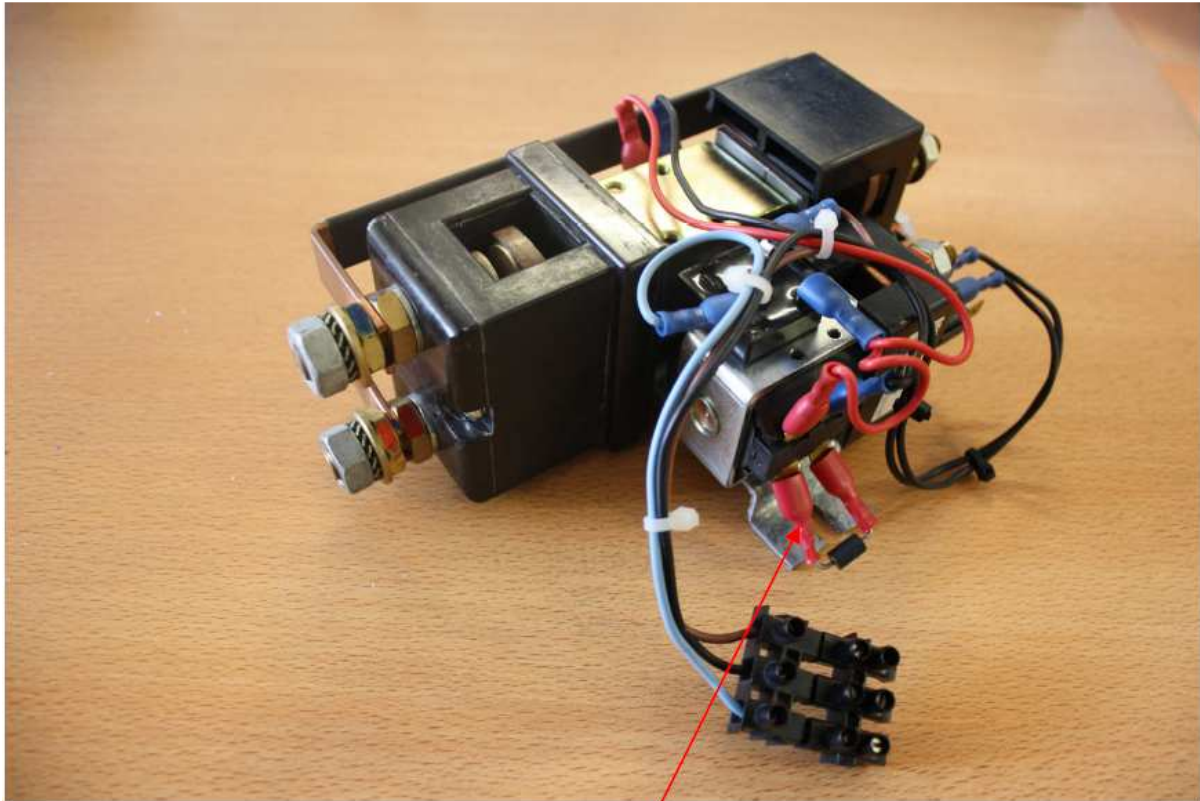


Switch



At rest, you do not have continuity between these two terminals. When the joystick is pushed you must have continuity, if not, untighten or tighten the two screws.

After that , if the coupler doesn't work, disconnect the diodes one by one and reconnect respecting the polarity.



Diode

