

Mongoose Pro GMII Clone modification

It is precise job so be careful!

If you do not know what you are doing leave and don't do it!

The problem:

The Mongoose Pro GMII Clone with pcb rev. C (2016.10.31) has routing problem.

The result of this is that SWCAN bus communication with the car via DLC pin 1 is not established.

T2Win for example cannot communicate with SAAB I-bus.

The situation:

If U52-7 is connected to u37-8 and U52-9 is connected to u3-3 it means that the outputs of the dual multiplexer (pin 7 and 9) are exchanged.

The solution:

Rerouting u52-7 to u3-3 and U52-9 to u37-8 will give working device for T2Win.

After modification SWCAN from TH8056 is switched correctly from output pin u52-7 to buffer u3-3 via u3-4 to CAN controller u26, and High speed CAN transceiver u37 is correctly controlled via pin u37-8 by output u52-9.

In practice:

I lifted u37-8 and u52-9 from the pcb so that the pins are free from the pcb.

Then with thin wire connected u37-8 to u52-9 and a wire from U52-7 to u3-3.

See the pictures.

