

Troubleshooting documentation ROBOTRONIK PHELMA

Finally there are more problems than mentionned in the mail. They will be precised in the following document.

The Boards :

The middle control board (the one that control the servomotor) :

- Loose connections between the different boards.
- The switches are not functional on two boards (no control over On/Off state).
- One board suffers of a power supply problem, which means the power supply is connected but there is no feedback on the board (e.g. LED).

Bottom card (the one for the motors and the power electronic) :

- The battery cable is either damaged or missing.
- The connectors for the motors were missing in one kit.
- As already mentioned, the switches are dysfunctional on two kits.

FRDM-KL25Z :

- One of these boards does not work because of an unknown issue, neither connection to the power supply nor to a computer does work.
- There are small tin projection, as illustrated in the picture bellow.

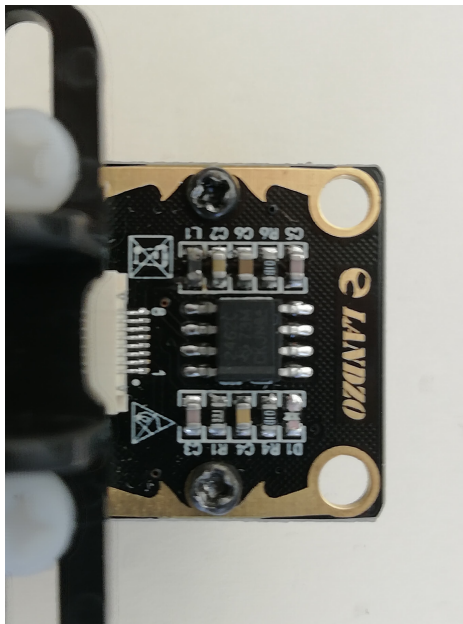


- The female jumper casing is damaged on the corners (picture bellow).



Camera :

- Connection strip damaged in one kit.
- A diode is missing on one camera and causes an inability to use it (cf. picture bellow).



Motors & Servomotors :

Motors :

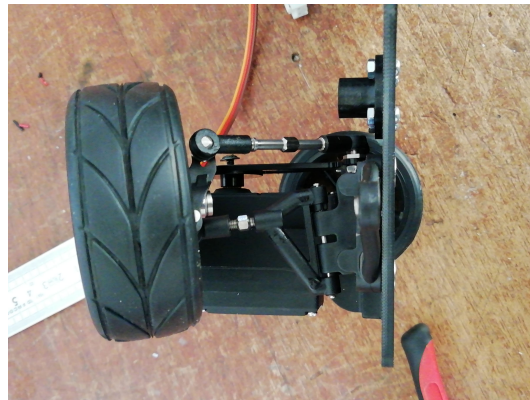
- One motor is out of alignment.
- The connectors were not included in any kit.

Servomotors :

- The connectors are not adapted to the middle board, which means the cables from the middle board touch the upper board and risk to be broken.

Frame :

- The ankle on the front left wheel is damaged (cf. photo bellow).



Dear NXP team,

A few days ago, our intern responsible for the NXP Cup received an email to remind the payment of our kits (reference). In a previous mail sent the .., without any answer, we indicated the first problem we encountered with the kits. Some problems are still unsolved, news are found and some required extra hardware. For these reasons we would not be able to participate with our three teams. You will find attached a documentation of all the troubleshooting. Is it possible to supply us with change parts ?

Best regards, Club Robotronik