

Please read this document carefully!

Think Tank Drive is a torque stabilizer for using with ThinkTank Booster module.

Scope of delivery

One set of wires with electronic parts for the sensors
Two neodymium magnets 5x5mm (1/5" x 1/5")
Two neodymium magnets 5x2.5mm (1/5" x 1/10")
(only when ordered with ThinkTank Booster K)



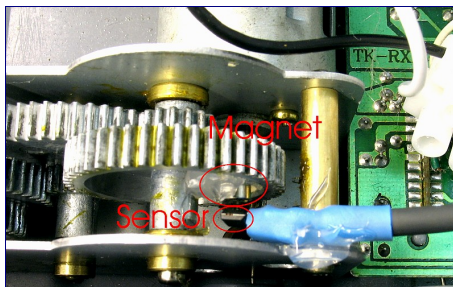
Functionalities

ThinkTank Drive is an extension for the ThinkTank Booster module. It stabilizes the rotational speed of the motors. After the installation the tank keeps its speed irrespective of soil conditions or slope. The adjustment range depends on the speed and type of the Booster (K or M).

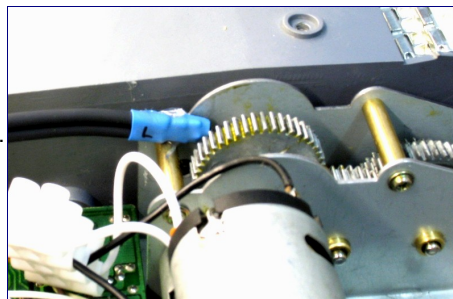
Installation and connection

- Open the chassis due to the instructions for the ThinkTank Booster.
- Fix a magnet on each outer side of the first toothed wheel of the drive (the marked side of the magnet in direction of the motor).
 - Plastic gearbox: For tanks with slipping clutch use the short magnets. For tanks without clutch use the long ones.
 - Metal gearbox: Use the attached 5x5mm magnets.
 - To fix the magnets you can use superglue or hot-melt adhesive. Both stood the test.

Before you start fixing the parts you should degrease the contact areas with alcohol.



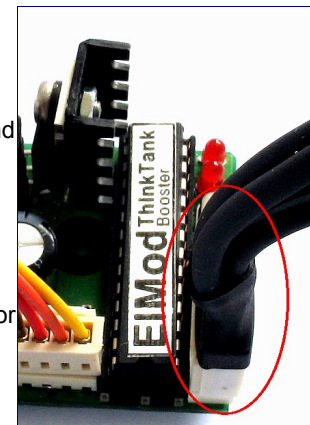
- When you fix the sensors make sure the magnets pass them at a distance of 2 to 5 mm (1/15" - 1/5").
 - The sensor can be fixed with the attached cable retainers or with hot-melt adhesive.
 - The sensors are marked with the letters "L" and "R". They correspond to the left respectively right drive (in driving direction). The marks should still be visible after installing the sensors.



- Connect the plug connection of the ThinkTank Drive with connection 6 of the ThinkTank Booster.

Initiation

- Make sure all wires have been installed correctly, that all connections have been fixed properly and that no conductive parts can touch each other.
- It is important that the gearbox works fine before the installation and that the tank does not have the tendency to drift to one side.
- Having switched on the tank you can start driving as usual.
- To check the functioning of the tank you can proceed in the following way:
 - Pick up the tank and let the chains slowly move.
 - Softly press your hand on the chain and try to stop the chain.
 - Then take away your hand abruptly. The chain will move faster for a moment and it will then adjust its speed. If slow motors or reduced gearboxes are used, the effect can be occur weaker.



Troubleshooting

- One or both chains accelerate without reason to full speed.
 - The sensors do not send any signal. Check if
 - the magnets have been fixed in the right way (glued on the marked side).
 - you have installed the right magnets (the short ones for gearboxes with clutch, the long ones for gearboxes without clutch).
 - the sensors have been installed correctly (the marks L and R should be visible).
 - the magnets if the magnets pass the sensors. If they do, check if the distance is as small as possible (2 to 5 mm / 1/15" - 1/5").
- Under load the wrong chain accelerates.
 - Check if the sensors have been installed on the wrong sides.
- The tank "wobbles" or the chains do not work at the same speed.
 - The gearbox does not work well. Check the course of the gearbox.

Nicht geeignet für Kinder unter 14 Jahren.
Not suitable for Children under 14 years.
Ne convient pas pour des enfants de moins de 14 ans.
Niet geschikt voor kinderen onder de 14 jaar.



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