

Please read this document carefully!

Think Tank Prop wire set is for connecting a common proportional RC-System to a WSN T34 model tank equipped with ThinkTank modules.

Scope of delivery

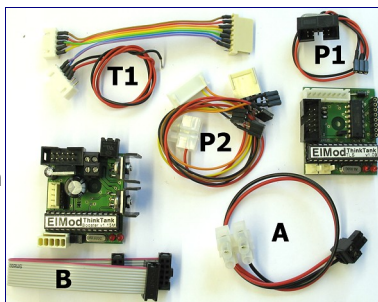
One multi-connector cable T1

One multi-connector cable P1

One EMNet/BEC cable P2

The other cables and modules on the picture are shipped with the other modules. They are shown here to make clear how the assembly has to be done.

After the installation some cables may remain unused. They are mentioned for other configurations.



Functionalities

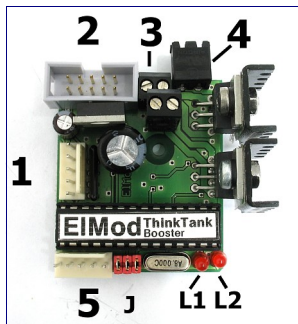
+ Connection of the ThinkTank Booster and ThinkTank TLS with a standard radio receiver (e. g. Futaba, Jamara, Robbe or Graupner/JR).

+ Full proportional drive control and control of turret rotation speed.

Overview of connectors

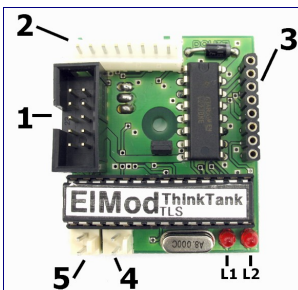
ThinkTank Booster

- 1 receiver output (channel 1 and 2)
- 2 EMNet connection for further TT-modules
- 3 motor connection
- 4 power supply connection (connector cable A)
- 5 connection for ThinkTank Drive (not applicable with WSN T34/85)
- J jumper for tank model configuration
- L1 power LED
- L2 command LED



ThinkTank TLS

- 1 EMNet-Connection (cable B)
- 2 receiver input (channel 3 and 4)
- 3 supply for turret unit (cable T1)
- 4 reserved for further light group / rear light (cable C)
- 5 optional muzzle flash (any LED can be connected directly)
- L1 power LED
- L2 command LED



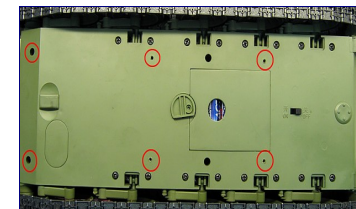
Tools necessary for the installation

To put all the parts together you need the following tools:

- Small screwdriver and a small Philips screwdriver®
- Wire cutting pliers or appropriate knife or pair of scissors.

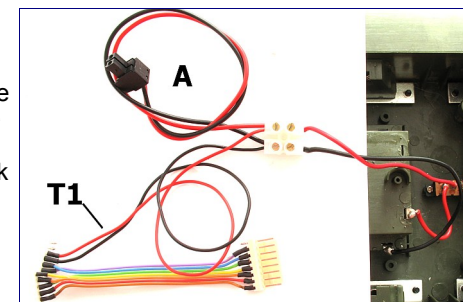
Opening of the hull

- Switch off your tank and put it carefully upside down.
- Unfasten the indicated screws.
- Remove the upper part of the hull.

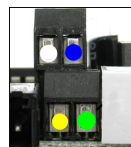
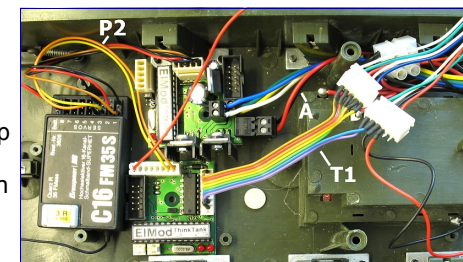


Assembly and connection

- Remove the 3-pole plug from the power supply cable and replace it with the insulating screw joint of cable A.
- Connect the red wire of cable T1 and the loose black cable.



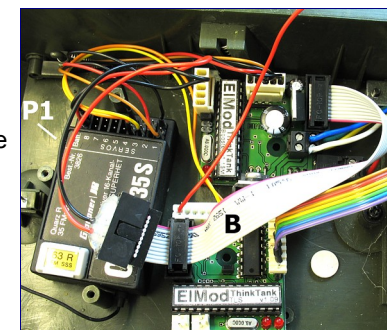
- Remove the 2-pole plug of the motor cables and the insulating at the ends of the cable.
- Connect the cables P2 and A with the booster as indicated on the picture.
- Connect the cables P2 and T1 with the TLS. The flap of cable T1 points to the edge of the circuit board!
- The idle plugs of cable T1 have to be connected with the plugs of the turret.



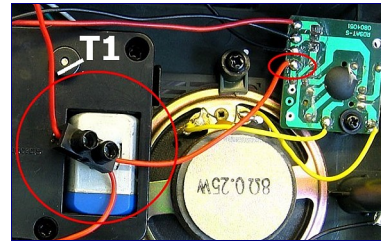
- The wires of the motor have to be fixed at the connector 4 of the booster. Please mind the right order of the colours as indicated on the picture.
- Put the jumpers at the booster as indicated on the picture.
- Remove the Jumper from TLS if you don't intend to use a third party recoil unit.



- Connect the TLS with the booster using the EMNet-cable (cable B).
- In case the receiver has to be supplied with power via ThinkTank module (BEC-circuit), connect cable P1 with the third (idle) connection of cable B.



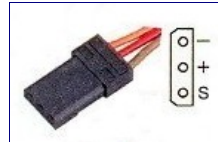
- The red wire of cable T3 which has a insulating screw joint has to be connected in the following way:
 - Cut the lower red cable which leads to the sound circuit board.
 - Connect the two cables with the insulating screw joint of cable T1.



Connection to the receiver

- Fix cable P1 to the power connector of the receiver.
- Connect the four cables of the multi-connector cable P2 in the following way:

- cable black/brown: channel 1, acceleration (right stick, vertical)
- cable red: channel 2, steering (right stick, horizontal)
- cable yellow: channel 3, canon lift (left stick, vertical)
- cable black/orange: channel 4, turret rotation (left stick, horizontal)



The plugs are not polarity proofed! Make sure that the black cable is connected to the ground.

Initiation

- Make sure all wires have been installed correctly.
- Check if the jumpers have been set correctly.
- Put in a charged battery and switch on the tank.
- One LED starts blinking for a few seconds and will then glow constantly.
- Move the right lever of the remote control. The tank starts to move.

Operation state LEDs

	lights	Booster is operational
Power-LED	Blinks one to four times after having been switched on (depending on the tank model)	Looking for connected ThinkTank modules
Command-LED	Joystick not in a neutral position or received command from radio	Used to recognize operational capability and used to control the neutral position

A fast-blinking power LED means that there is no connection to the sender or that the transmission path between sender and receiver is disrupted. Please check if the sender is switched on and if it is connected to a charged battery. If necessary check the operability of sender and receiver with a servo motor.

Brakes

With the ThinkTank Booster module the tank disposes of three degrees of brakes:

Motor brake	Chain brake	Emergency brake
Put the lever in neutral position.	move the stick half-way to opposite direction	move the stick completely to opposite direction
Rolling out	Full brake	Immediate halt

Controlling the TLS

The control of the light group and the tower unit is carried out as follows:

↑ Lift cannon (half deflection)	↑ Shot (maximum deflection)
↓ Lift cannon in opposite direction (half deflection)	↓ Machine gun (if available) (maximum deflection)
→ Rotate turret right	↖ Front light
← Rotate turret left	↗ Second Light group (Connector4 on TLS)

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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