



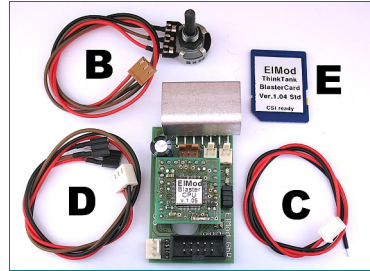
# ThinkTank Blaster III

## detailed instructions for assembly and operation

Please read these instructions carefully before assembling the parts.

### Product contents

- ThinkTank Blaster PCB
- ThinkTank Blaster CPU PCB
- volume control cable (B)
- speaker cable (C)
- cable for optional connection to a proportional receiver (D)
- microSD-card adapter (E)
- two isolating plates

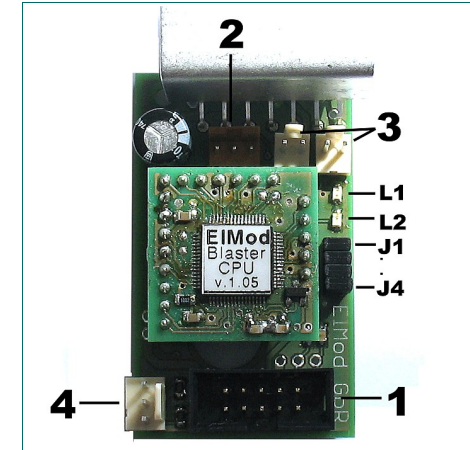


### Functional range

- sound module for tank models equipped with EIMod electronic parts.
- up to five independent voices.
- 22kHz Sampling-frequency, 8-bit, wav-files.
- 10-bit mixer for wide dynamic range.
- storage medium is standard microSD-card. An adapter for common card readers is included.
- customizable: creating your own sample sets is possible with a personal computer.
- supported sounds (depending on the model):
  - up to ten sounds for switching on/off of the motor (shuffle play).
  - determination between cold and warm start
  - motor sound depending on speed
  - different sounds for squeaking chains which are played randomly depending on speed
  - sounds for turning turret with differentiation between manual and hydraulic/electrical turning
  - sound for barrel moving
  - Gun and MG shot
  - up to four sounds defined by the user
- Connection with up to two 4 or 8 Ohm speakers
- Power: 2x 5W
- Size: 53 x 32 mm<sup>2</sup> (2.1" x 1.2")
- EIMod-Bus system (EMNet): Simple connection with other ThinkTank-Modules

### Overview of connectors

- 1 EMNet-connector
- 2 connector for volume control
- 3 connectors for up to two speakers
- 4 connector for proportional receiver
- J jumpers used for configuration (J1 to J4)
- L1 Power LED
- L2 Busy LED



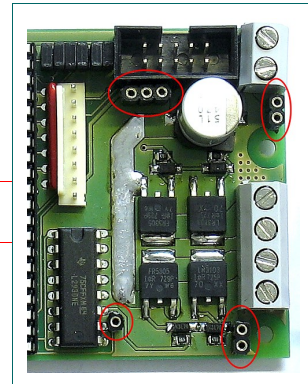
### Assembly and connection

Faulty wiring may cause permanent damage to the electronics! If anything is unclear, please take a look in our FAQ or send us an email!

- Put the included adhesive pads on the motor and power supply terminals of the ThinkTank Tank Module to prevent shortcuts with the ThinkTank Blaster board!
- Plug the ThinkTank Blaster PCB on the ThinkTank Tank Module, so the pins of the Blaster exactly fit to the red marked counterparts on the Tank Module.

Make sure that ALL four connections are mechanically secured! Otherway the electronics may be damaged or destroyed!

- Connect volume control B with connector 2
- Connect the speaker with cable C to one of the two connectors 3. If you ordered the blaster with a speaker, it will already be delivered with the cable. You can use up to two speakers with the Blaster 2 resulting in higher loudness. In this case consider the polarity of the loudspeakers! If the sound appears 'thinner', swap the cables of one of them.
- Leave all jumpers closed to activate the standard set of samples for the tiger tank or choose another one by setting the jumpers accordingly to your choice. A list with all available sample sets is included on the next page of this manual.









### First run

It is essential for proper function of the module that the tank itself and all other modules are installed correctly!

- Make sure all cables have been installed as described above.
- Make sure that all jumpers are put in the right position and that the SD card is well fixed.
- Put in a full charged battery and switch on the tank.
- The power LED starts blinking for a short time as soon as the connection with the other modules is established.

## Operation state LEDs

Power-LED		Booster is looking for connected modules
		Booster is operational
		no SD card found or card is defect
		initialisation file not found or damaged file system on the SD card
		warning: maximum number of samples for one set exceeded
		warning: a defined sample could not be found in the set of samples
Busy-LED	flickers when playing the samples	

## Motor ignition

After the installation of the ThinkTank blaster, the engine is switched off after power up by default. You can change the state of the engine as follows:

- HL-Tanks without S&S or tanks with installed ThinkTank proportional set: move the left lever to the left upper position.
- HL-Tanks with S&S: After power up push the ignition button on the radio and wait approx. 10 seconds (the time span which is required for the original HL-ignition sequence to be finished). Move the left lever to the left upper position
- Tanks with installed ThinkTank C6 proportional set: move the control element of channel 6 to the most upper position.

This procedure switches the tank alternately on and off. You cannot move the tank when the engine is off.

## Jumper settings

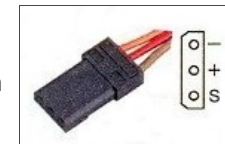
These sample sets are included on the SD-Card (SDCard v.1.06):

Jumper 1	Jumper 2	Jumper 3	Jumper 4	Description
CLOSED	CLOSED	CLOSED	CLOSED	Tiger with sound for turret rotation V.1.52
OPEN	CLOSED	CLOSED	CLOSED	Tiger without sound for turret rotation V.1.52
CLOSED	OPEN	OPEN	CLOSED	T34 V.1.1
CLOSED	CLOSED	OPEN	CLOSED	Pz.III V.1.0
CLOSED	OPEN	CLOSED	CLOSED	King Tiger V.1.0 (THX to Annanas!)
OPEN	OPEN	CLOSED	CLOSED	Gepard V.1.1
OPEN	CLOSED	OPEN	CLOSED	M4 diesel V.1.0
OPEN	OPEN	OPEN	CLOSED	M26 Pershing V.2.0

In the root directory of the SD card you can find more zipped samplesets.

## User defined samples

Up to four samples per sampleset can be used as free defined sounds, which may be triggered by two free channels of the proportional receiver. Every set of samples is already equipped with demo samples. To play them cable D has to be connected with connector 4 and two free channels of the receiver.



The plugs are not polarity proof! Make sure that the black cable is connected to the ground (-) and the colored wires are connected to the signal pins (S) of the receiver.

The samples are activated by full deflection of the controls of the channels 5 and 6 and can be terminated by moving the controls in the opposite direction.

## Optional sample sets

Take a look at our website for information about new sets of samples. New sets can be downloaded for free and transferred to the SD-card via USB-card reader.

Please visit our website and take a look on the FAQ for in-depth information

Nicht geeignet für Kinder unter 14 Jahren.

Not suitable for Children under 14 years.

Niet geschikt voor kinderen onder de 14 jaar.

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