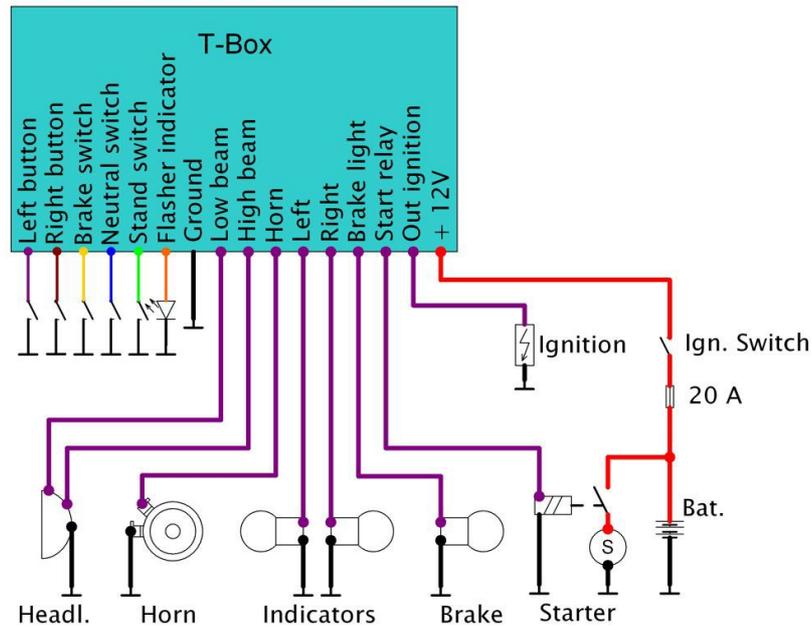


# Installation of the T-Box

No time for manuals? No problem, this will take only 3 minutes of your time to read it and you will have more fun while the installation of your new 2-button control T(ricky)-Box.



**Push button for the left flashers (violet):** You can use this input for a push button what will connect the input to ground / chassis when pressed. An closed contact will start the flasher left.

**Push button for the right flashers (brown):** You can use this input for a push button what will connect the input to ground / chassis when pressed. An closed contact will start the flasher output right.

**An emergency flasher function** is active by pressing both direction buttons.

**Brake light switch (yellow):** You can connect your brake light switch(es) to this cable and control your brake light or rear light with this input.

**Neutral switch (blue):** Connect the neutral switch to this cable.

**Side stand switch (green):** Connect the side stand switch to this cable.

**Flasher indicators (orange):** You can connect the indicator led of your speedo here if your speedo have only one led for both sides.

**Ground (black):** Just connect the black cable direct to the chassis and make a connection from this point to the buttons of the handle bar. It is important that the handle bar have the same ground connection, Otherwise the box might make some "funny" mistakes due to a poor grounding of the handle bar when a button is pressed.

**Output low beam:** This is the 12 Volt output for the low beam headlight. However, the light can be switched off when pressing the "start" button in order to have enough energy for the starter (further infos at page 2, "setup").

**Output high beam:** This is the 12 Volt output for the high beam bulb.

**Output horn:** This is the 12 Volt output to the horn, what is active by a button press. **Be careful, this output can control modern horns with maximum 3 Ampere. Every current above this value might destroy this output.**

**Flasher outputs left and right:** These are the 12 Volt power outputs to the turn signals. However, the flasher frequency is independent of the load. So, problems with led flashers are a matter of the past.

**Output brake light / rear light:** This output is connected to the brake light. You can use this cable for the rear light as well if you switch on the mode option 4 (see page 2).

**Output start relay:** This output is connected to the **start relay and not** direct to the starter. This output can supply maximum 3 Ampere.

**12 V Output to ignition:** This output is connected with the ignition. A press on the stop button will disconnect the ignition for 2 seconds.

**+ 12 Volt input from ignition lock (big red cable):** This is the 12 volt power input for the box and the power outputs. The outputs of the box are self resettable in the case of a short circuit.

**Adjustment of the different functions:**

The T - Box can be used for the most circumstances without any modification on the box. However, you can easily change some functions in the box without the need of a software specialist. Just press the "right" button while switching on the ignition switch and you are in the "setup mode". An one time emergency flash will indicate the "Mode 1". You decide with this mode if you want to use the indicator "auto canceling" function. Just feel free to press the "right" button if you like to activate this function or the left button if you don't like it and the box switches immediately to "Mode 2" which is indicated with 2 flashes of the direction lamps. Feel free to continue to make your personal settings for your bike. All settings are stored in the box after 7 times pressing the "left" or "right" button. You're done! It's that simple... The T - Box will keep your settings after a power off. However, you can change the settings at every time you want. The following options are possible:

Number of flashes	Mode	Left flasher button	Right flasher button	Description
1 x	Flasher auto off	Off	On	The flasher switches off after 30 or 60 times
2 x	Flasher auto off	30 flashes	60 flashes	Number of repeats when "Flasher auto off" is on
3 x	Low Light	On	Off	The flashers glow with about 25 % when the flasher function is off
4 x	Brake light mode	Brake light / rear light combination	Brake light	The rear light will glow with 30 % when the brake light switch is not pressed
5 x	Brake light flasher	Off	On	The brakelight flashes 3 times before it stays on when you brake.
6 x	Neutral switch and sidestand switch	On	Off	The ignition and start relay functions can be controlled by the 2 switches.
7 x	Harley Davidson TSM / TSSM module	Implemented	Not implemented	You can use the left option if your bike is a HD with TSM / TSSM module

You can check your settings if you press and hold the left button while switching on the ignition switch. The direction indicators will indicate then the 7 options step by step with 7 flashes at the left and right indicators.

**Installation:**

The power outputs can work with currents between 3 and 6 Ampere for each output. The maximum current of the T - Box is 20 Ampere due to the small size of the box. The cables to the buttons should be more than 10 cm away from the ignition and spark plug cables (if possible) in order to prevent the box against EMI disturbances. Otherwise the T - Box might do some "funny" unwanted functions like changing the light, switching on the flashers, etc. It's also a good idea to use shielded cables to the push buttons if available.

**Usage:**

- One short press on left button: Flasher left on or off.
- One short press on right button: Flasher right on or off.
- One short press simultaneously on left and right buttons: Emergency flasher.
- Two short presses on left button: Switch between low - and highbeam.
- Two short presses on right button: Ignition on or off.
- One long press on left button (> 0,3 sec): Horn
- One long press on right button (> 0,3 sec): Start relay, if ignition is on.

The T - Box was developed for an implementation in show bikes and racing bikes. It should be installed by professional well trained engineers only. Please check your local regulations regarding the traffic light rules in your country before of the use of the T - Box in your bike. Please be aware that we are not responsible for any hazards, damages or disadvantages due to the use of the electronicbox. The electronic devices are registered under the number DE54933725 WEEE as B2C device. We also declare that the T - Box is conform to the CE and ROHS regulations for the European market.

We tried to keep the functions of the T - Box and this manual as simple as possible. If you have any questions while the installation please don't hesitate to contact us at: [info@elektronikbox.de](mailto:info@elektronikbox.de)

**We wish you to have a lot of fun with your new T - Box in your bike and of course always a safely trip!**