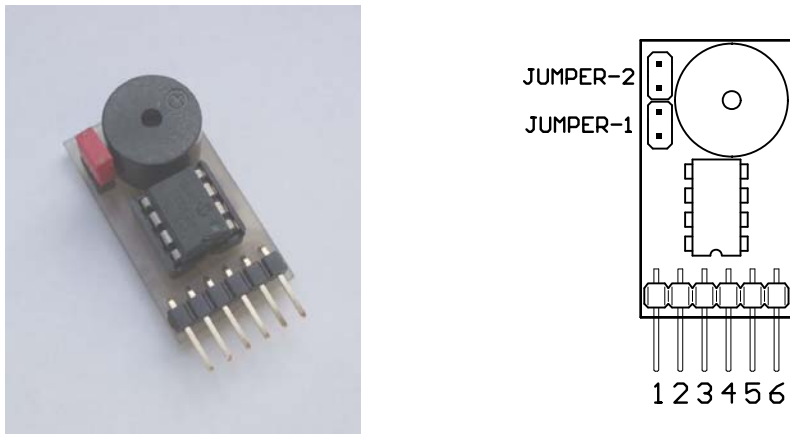


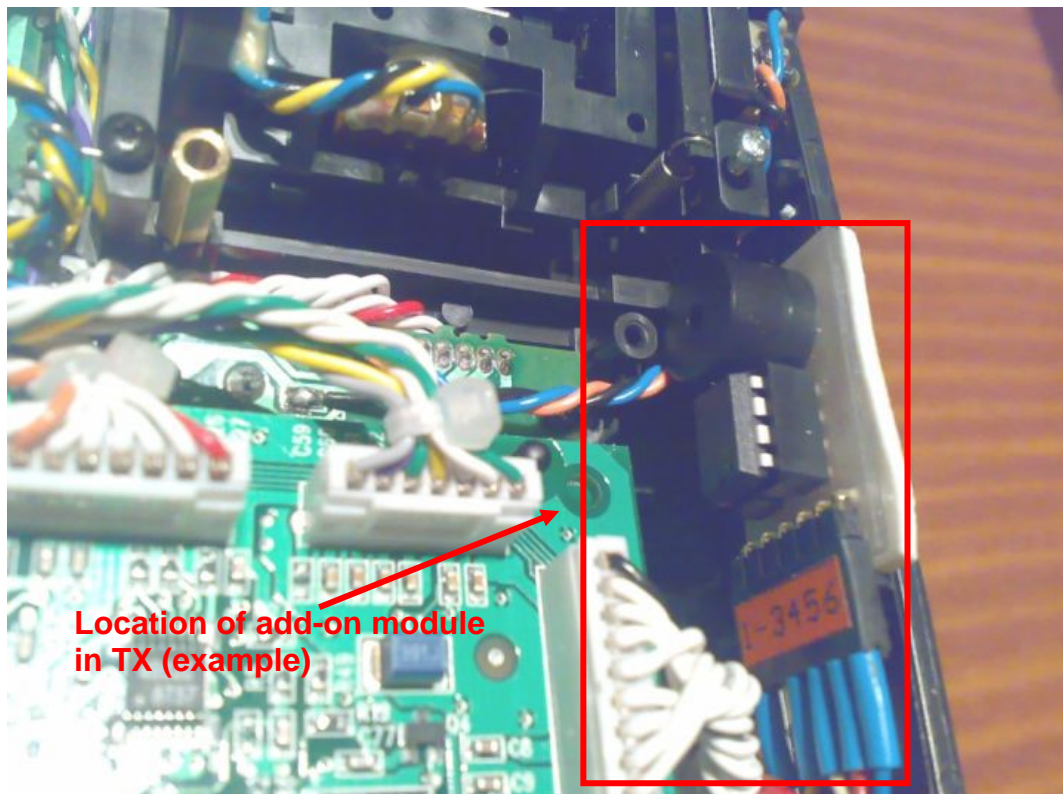
## JR PCM9XII / DSX9 / X9303 – Add-on module for automatic switching of timer by throttle stick

The add-on module is connected to the electronic circuits of the transmitter by only four wires. After installation the module can start the timer when the throttle stick is above a set position and stop timer when throttle stick is below the set position. The desired position is adjustable over the full range of throttle stick motion. Once the module is installed you can determine by the setting of the jumper whether automatic switching is active during operation of the transmitter or not.



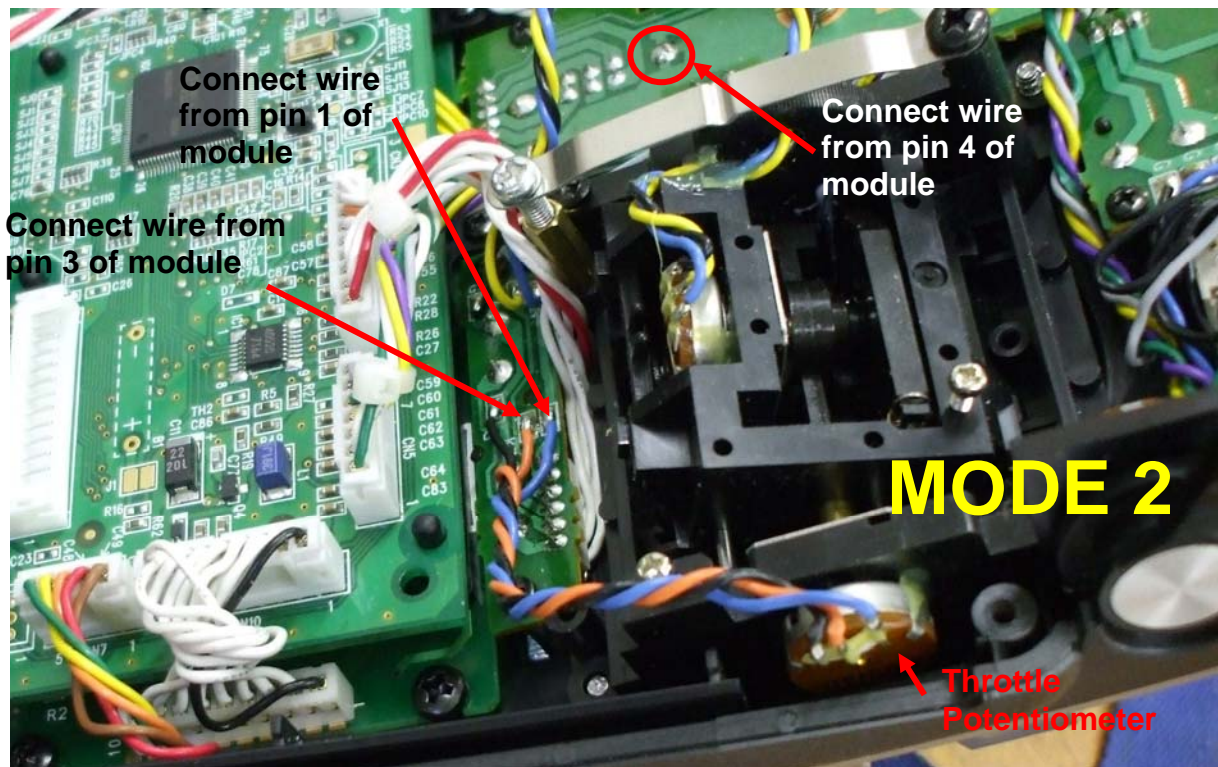
Pict. No. 1: Layout of pins on PCB module – component view

### INSTALLATION



Pict. No. 2: Location of additional PCB module in TX

The easiest way to install the add-on PCB module is to use adhesive foam tape to attach it in a free area of the TX.



Pict. No. 3: Points for connecting wires from pin 1, 3 and 4 of module (NOTE: TX in picture is Mode 2)

**Step 1 - Pin 1:** Connect (solder) wire from pin 1 of module to side pin of throttle potentiometer – wire that **is not black** – in picture No. 3 it is **BLUE**. It's best to solder the wire to the point indicated in picture No. 3.

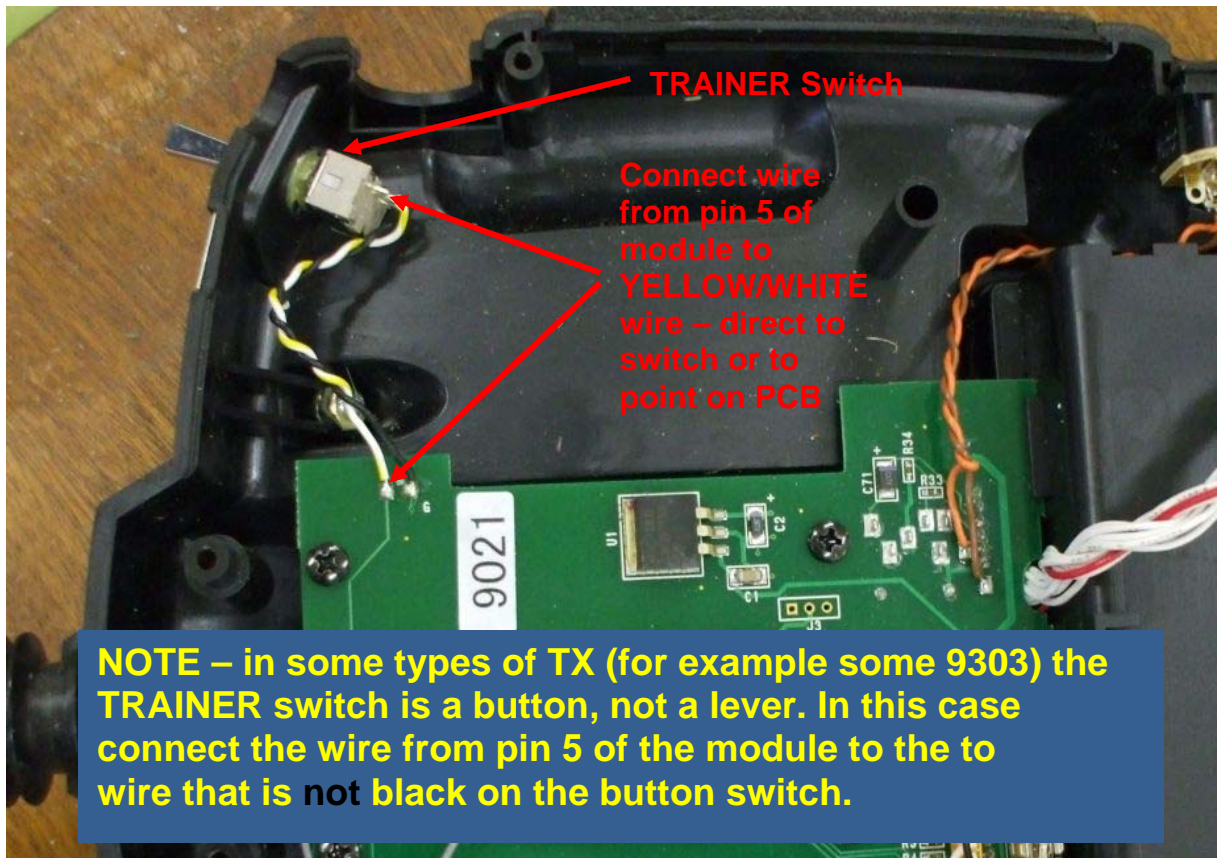
**Step 2 - Pin 2: Do not connect this pin**

**Step 3 - Pin 3:** Connect (solder) wire from pin 3 of module to middle pin of throttle potentiometer – in picture No. 3 it is **ORANGE**. It's best to solder the wire to the point indicated in picture No. 3.

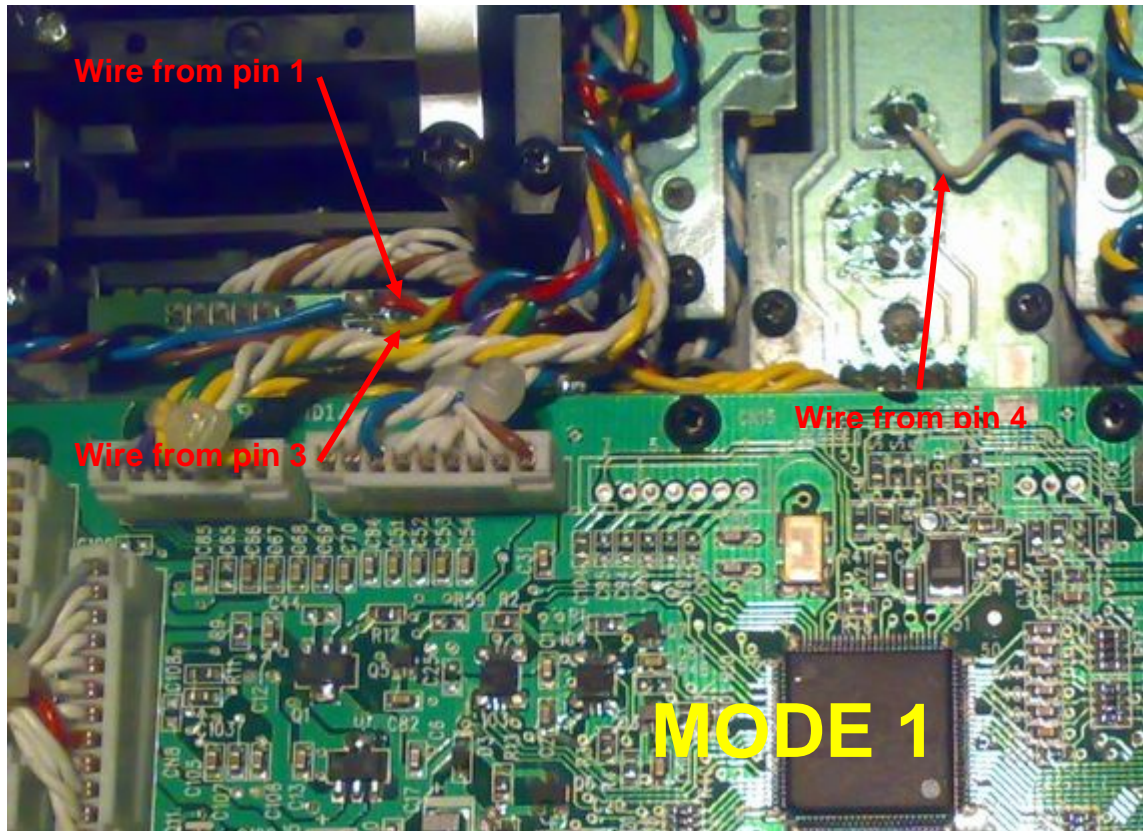
**Step 4 - Pin 4:** Connect (solder) wire from **pin 4** of module to central PCB to point marked on picture No. 3 as red circle.

**Step 5 - Pin 5:** Connect (solder) wire from **pin 5** of module to TRAINER switch – wire that **is not black** – in picture No. 4 it is **YELLOW/WHITE**.

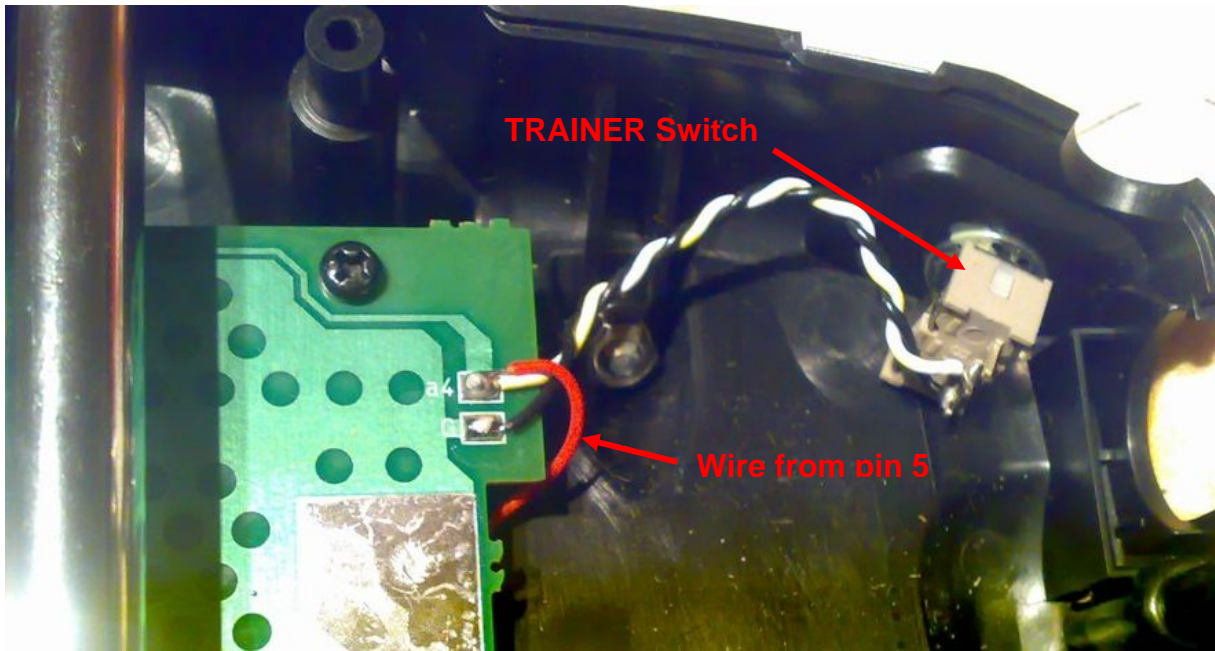
**Step 6 - Pin 6: Do not connect this pin**



Pict. No. 4: Point for connecting wire from pin 5 of module



Pict. No. 5: Wires from pins 1, 3 and 4 of module (NOTE: TX in picture is Mode 1)



Pict. No. 6: Wire from pin 5

## MANUAL

### Restrictions:

- ❖ If you need to use the TX in instructor/student mode (master/slave trainer system) then automatic timer switching must be OFF.
- ❖ The Snap Roll function must be inhibited when you operate the TX with automatic timer switching turned ON.
- ❖ To ensure that the timer is in its regular state after a manual RESET do the reset with the throttle stick below the position where auto timer mode is activated.

In the TIMER menu, select UP or DOWN. When you select DOWN, you must set the time in minutes and seconds. The control switch selected for starting/stopping the timer must be TRAINER.

GLIDER mode provides two timers that can be configured either for countdown or as stopwatches and activated by several different switches. Auto timer mode will control the one(s) associated with the TRAINER switch.

When you turn on the transmitter, you can decide whether auto timer mode is activated or deactivated. Auto mode can be activated in two ways, depending on which Jumper-1 position is selected:

	Turning on the transmitter in the normal way	Pressing and holding TRAINER while turning on the transmitter
Mode A	Automatic ON	Automatic OFF
Mode B	Automatic OFF	Automatic ON

## **Mode A – Jumper-1 is ON (SHORT)**

Turn off the transmitter. **Set throttle stick to desired position.** Turn on the transmitter. You will hear two standard beeps followed one second later by six short beeps. Six beeps means automatic switching of timer in ON. Now the timer is controlled by the throttle stick. When you move throttle stick above the set position you will hear the standard beep and the timer will start to increment or decrement time (depending on whether it is set to UP or DOWN). When you move throttle stick below the set position you will hear the standard beep and the timer will stop. Do not use the TRAINER switch or TIM button (see lower left corner of screen) to start or stop the timer manually while in this state! This state remains active until the transmitter is turned off.

If you need to turn OFF automatic timer switching in this mode, press the TRAINER switch and hold it while turning on the transmitter. You will hear two standard beeps followed one second later by one short beep. One beep means automatic switching of the timer is OFF. You can then start or stop the timer manually using the TRAINER switch. This state remains active until the transmitter is turned off.

## **Mode B – Jumper-1 is OFF (OPEN)**

Turn on the transmitter. You will hear two standard beeps followed one second later by one short beep. One beep means automatic switching of the timer is OFF. Then we can start or stop timer manually by TRAINER switch. This state is active till turn off the transmitter.

If you need to turn ON automatic switching of timer in this mode, set the throttle stick to the desired position, press the TRAINER switch and hold while turning on the transmitter. You will hear two standard beeps followed one second later by six short beeps. Six beeps means automatic switching of the timer is ON. From this point on, the timer works as "Mode A".

***Do not use the TRAINER switch or TIM button (see lower left corner of screen) to start or stop the timer manually when automatic switching is active. If you do press one of these switches you must press it again to return the timer to its normal state.***

**NOTE:** If Jumper-2 is ON (SHORT), then the module will generate two short beeps per minute (approximately) while the timer is automatically switched ON. This tells you the timer is running. Measuring of time by function "periodic beeping" is not synchronized with timer time. So accuracy of measure is not very high and depends on temperature. This function is only a little bonus for these who need information about "timer is running".

The author is not responsible for any damage which might occur during the installation or operation of the device.

### **PRICE:**

**For Slovakia and Czech Republic – 10,00 Euros (including wiring material and shipping cost).  
For others countries - 12,30 Euros (including wiring material and shipping cost).**

Contact: [jaromacko100@gmail.com](mailto:jaromacko100@gmail.com)