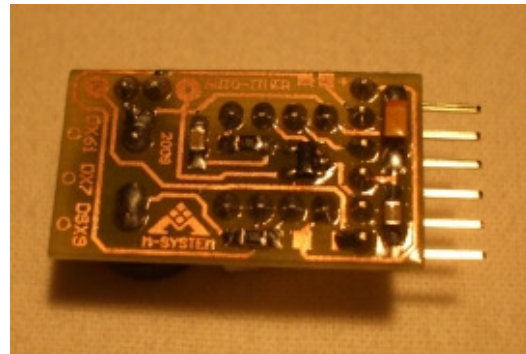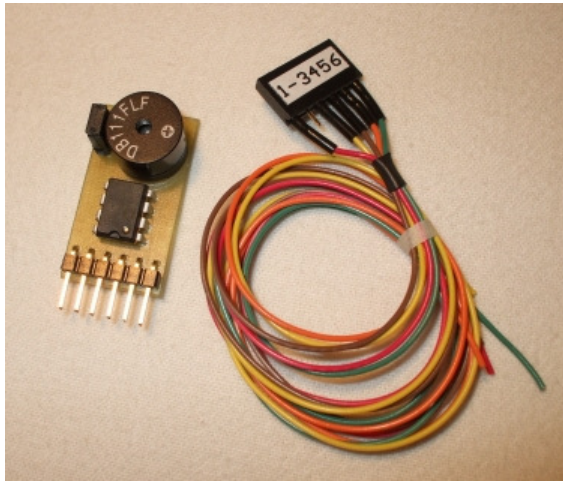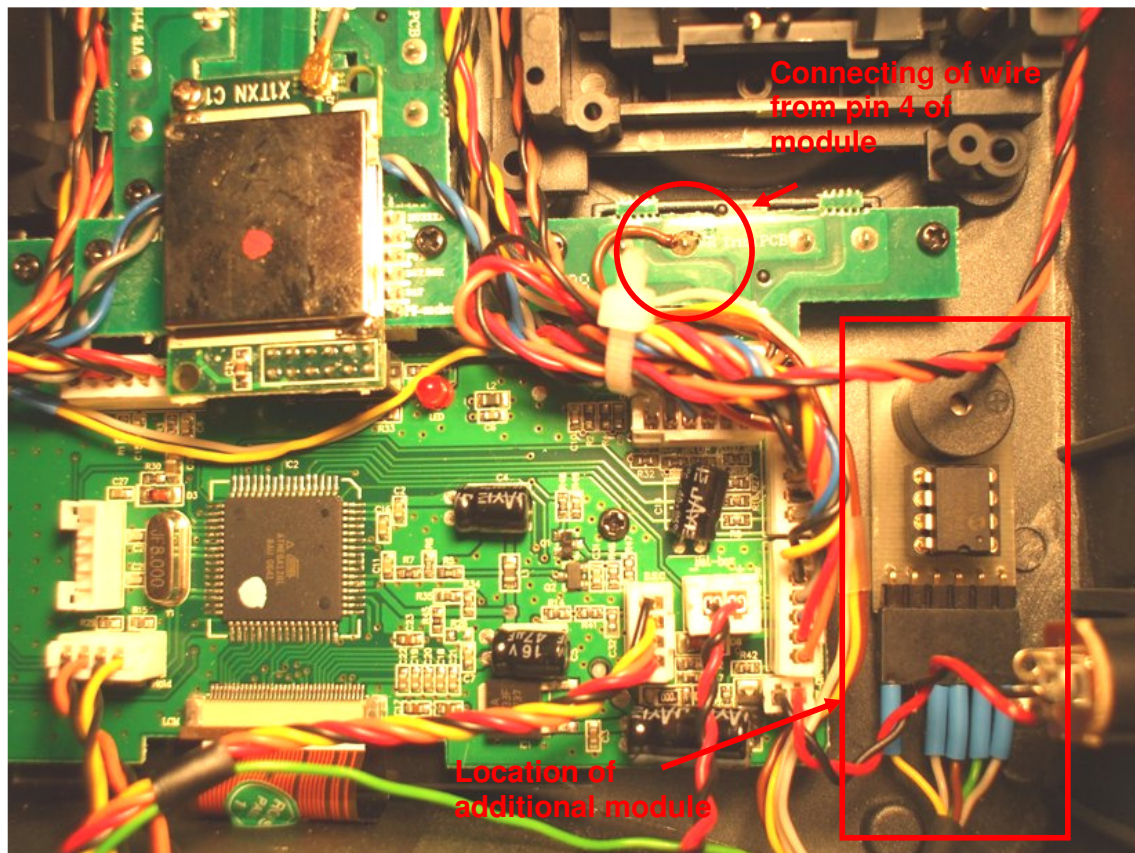# Spektrum DX6i – Additional module for automatic switching of timer by throttle stick
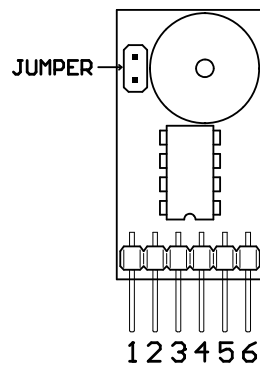## VERSION 2

INSTALLATION

The easiest way how to install additional PCB module is to use sandwich tape and attach module on the free area next to charge connector.

Pict. No. 1: Location of additional PCB module in TX – next to charger connector

Pict. No. 2: Layout of pins on PCB module – component view

Steps:

NOTE: Colours of wires from additional PCB module may by various. Colours noted below are colours of wires original installed in TX.

Step 1 - Pin 1: Connect (solder) wire from **pin 1** of module to outer pin of throttle potentiometer – to **RED** wire from throttle potentiometer. The best for it is to move stick assembly in direction of inside TX.

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

Step 3 - Pin 3: Connect (solder) the wire from **pin 3** of module to center (middle) pin of throttle potentiometer (in the TX MODE 1 usually **YELLOW** wire, in TX MODE 2 usually **ORANGE** wire) - for connection method applies the same as the pin No.1.

Step 4 - Pin 4: Connect (solder) wire from **pin 4** of module to PCB of bottom left trim next to text „VR Trim PCB" – on Picture No. 1 see red circle.

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

Step 6 - Pin 6: Connect (solder) wire from **pin 6** of module to THROTTLE CUT buton – to soldering point that is nearest to the antenna – see picture No. 6

MODE 1

Wire from pin 1 connected to red wire from potentiometer

Wire from pin 3 connected to yellow wire from potentiometer
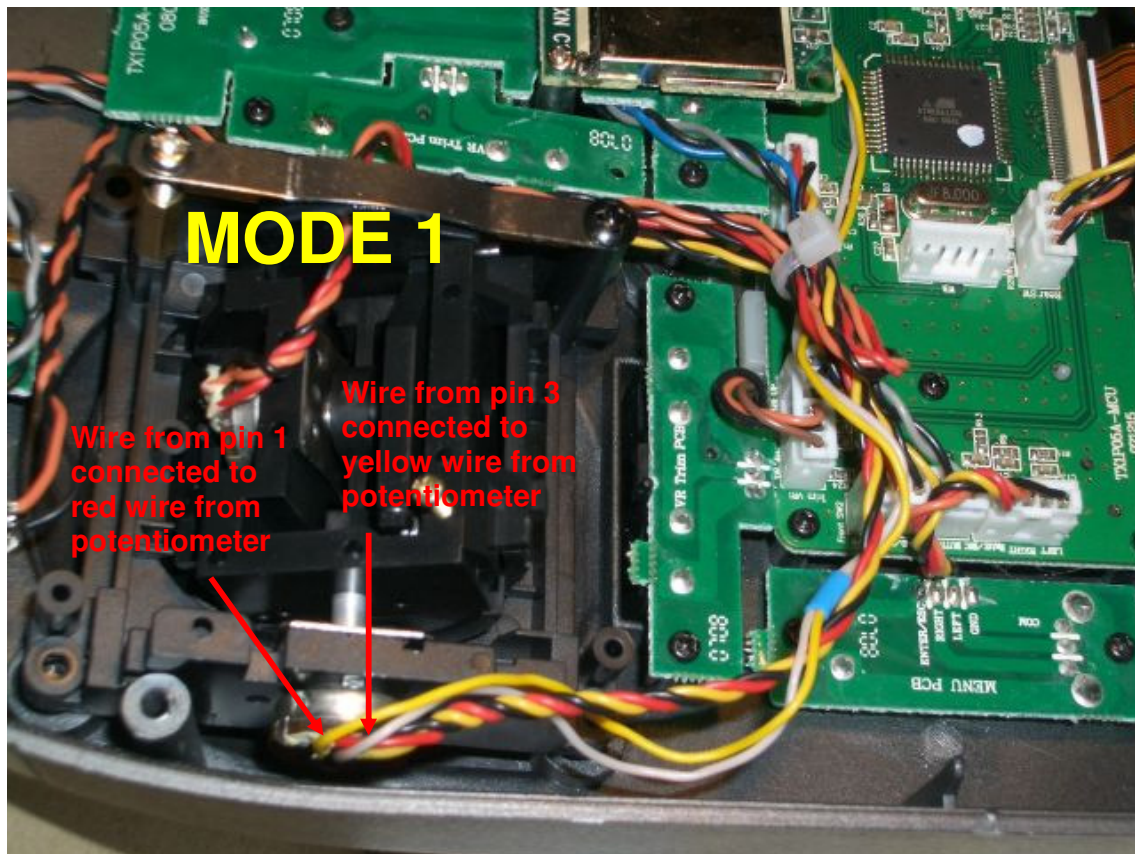
Pict. No. 3: Connecting of wires from pin 1 and pin 3 to throttle potentiometer
(NOTE: on picture is TX Mode 1)

Wire from pin No.3 of the module connected to MIDDLE pin of potentiometer (connected to the ORANGE wire)

Wire from pin No.1 of the module connected to the OUTER pin of potentiometer (connected to the RED wire)

MODE 2

07.06.2009 06:57
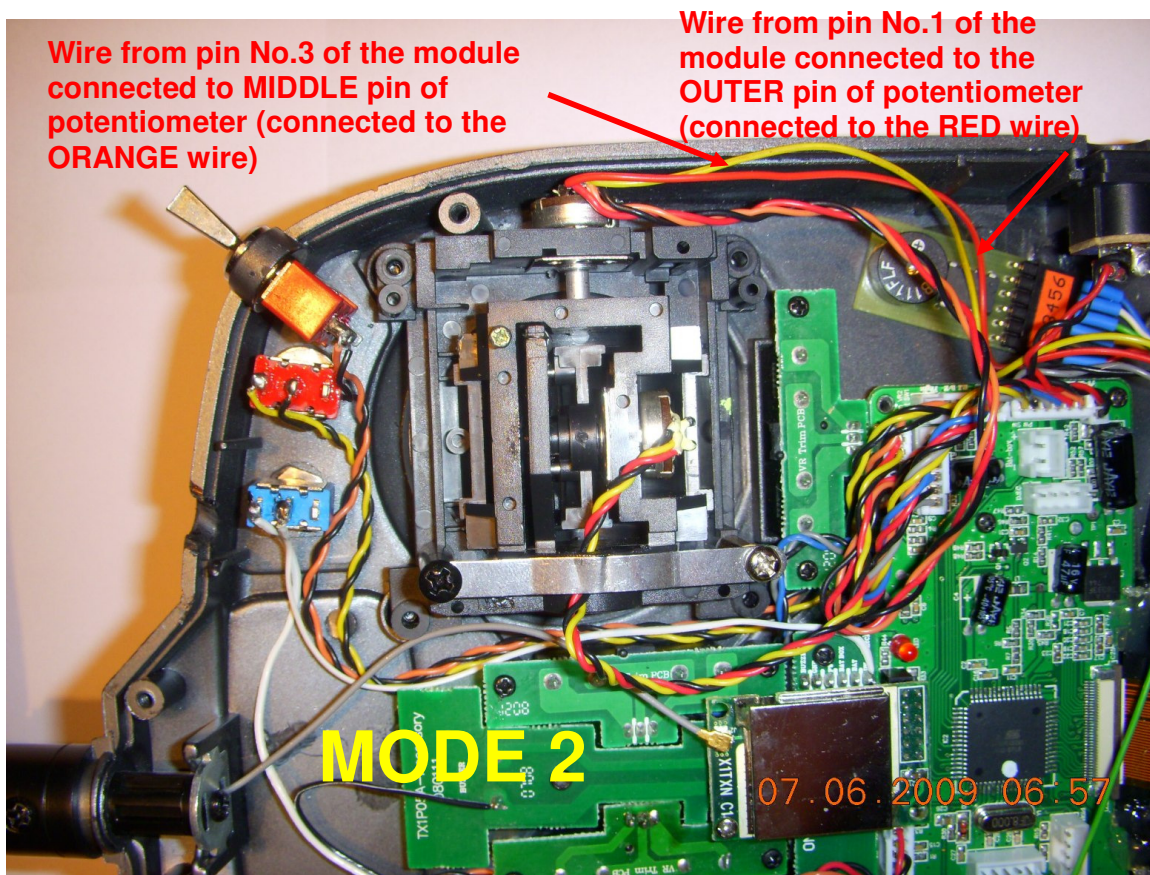
Pict. No. 4: Connecting of wires from pin 1 and pin 3 to throttle potentiometer
(NOTE: on picture is TX Mode 2)

Wire from pin 5 of module connected to orange wire on TRAINER switch
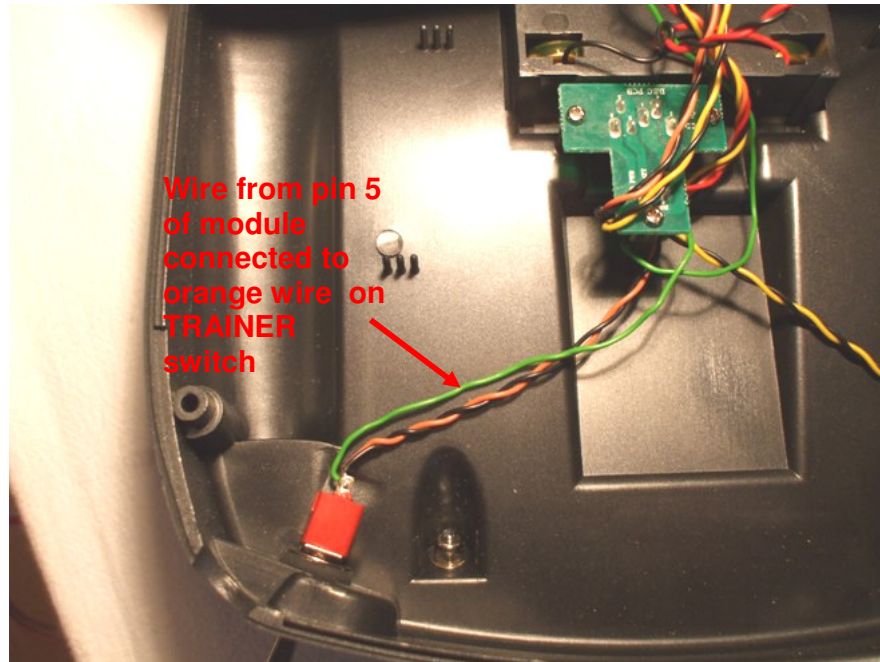
Pict. No. 5: Connecting of wire from pin 5 to switch TRAINER
(NOTE: on picture is TX Mode 1)

Wire from pin 6 of module connected to THROTTLE CUT button
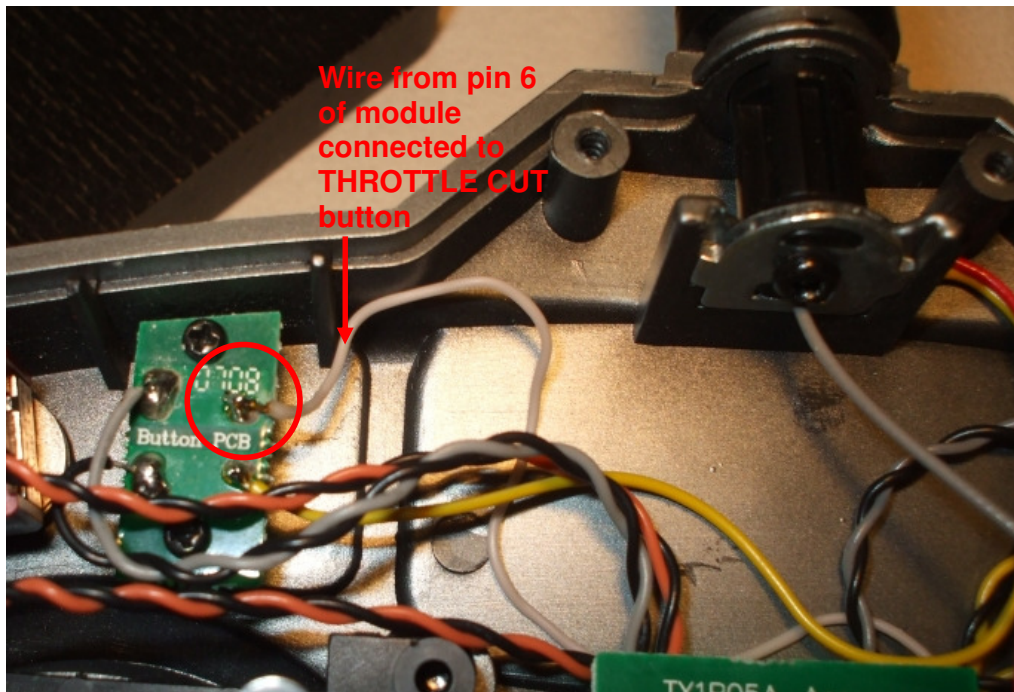
Pict. No. 6: Connecting of wire from pin 6 to THROTTLE CUT button
(NOTE: on picture is TX Mode 1)

MANUAL

In menu SETUP LIST / TIMER select UP or DOWN. When you select DOWN you must set time in minutes and seconds. In Switch Options **you must select TRAINER**.

THROTTLE CUT button will be used for activate or deactivate automatic switching of timer – this function of THROTTLE CUT button **is active only during turning on the transmitter**. After this we can use this button for primary function.

If automatic switching of timer is active then the module works as follows - if the position of throttle stick is below set position - timer stopped. If the position of throttle stick is above set position - timer run.

During the turning on of the transmitter you can make decision if the auto mode is activated or deactivated. Auto mode can be activated in two different, each other reversible modes. Selected mode depends on selected position of jumper.

	Standard turning on the transmitter	**Press and hold THROTTLE CUT while turning on the transmitter**
Mode **A** – **jumper is ON** **(SHORT)**	Automatic ON	Automatic OFF
Mode **B** – **jumper is OFF** **(OPEN)**	Automatic OFF	Automatic ON

The module can operate in two different method and we can choose which method suits more. In a classical method (**Classic Mode**) is necessary to adjust desired position of throttle stick (position for start/stop timer) every time you turning on the transmitter. In the second method (**Story Mode**) is setting position of throttle stick stored in memory and this position will be used for start/stop timer regardless of what the position of throttle stick is set while turning on the transmitter.

Mode A - jumper is ON (short)

After normally switching ON the transmitter you will hear three standard beeps and then another series of beeps - automatic timer is activated. You will hear:

• six short beeps (* * * * * *) when CLASSIC MODE is set - throttle position for start/stop timer is given by throttle position while turning on the transmitter

or

• four short and one long beep (* * * * _) if STORE MODE is set - throttle position for start/stop timer is loaded from memory (is it possible to set and stored this position - see description below)

If the automatic timer is activated, it is not possible to manually start and stop timer by TRAINER switch. Automatic remains activated until the transmitter OFF. If you need to work in this mode (jumper ON) with the transmitter without the automatic timer, so you press and hold THROTTLE CUT button while turning ON the transmitter. Then you will hear three standard beeps and then next one beep (*) generated by adding module. One beep indicates that the automatic timer is not activated. Now you can use manual start and stop timer by TRAINER switch. Automatic remains deactivated until the transmitter OFF.

Mode B - jumper is OFF (open)

In this mode works the module opposite as in mode A. If you turn ON the transmitter in a standard way, so the automatic timer is deactivated, signaling one beep (*).

If you holding down the THROTTLE CUT button while turning ON the transmitter so the automatic timer will be activated and we will hear a series of beeps according to the selected mode as described in the first part of the Mode A.

Anytime it is possible to reset the timer by long press of the TRAINER switch.

Setting Classic Mode / Store Mode and saving the setting position of the throttle stick to the memory

Turn ON the transmitter so that the automatic timer is **DEACTIVATE** - press THROTTLE CUT button while turning ON the transmitter if jumper is set or normal turn ON the transmitter if the jumper is off. After switching ON the transmitter we will hear three standard beeps and then one beep - automatic timer is deactivated. If the THROTTLE CUT button was pressed – relase it immediately after one beep.

Then wait about 1 - 3 seconds (but no more than about 4 seconds) and press and hold THROTTLE CUT button. After about 3 seconds you will hear 3 short beeps. If you release the THROTTLE CUT button now - Classic mode will be set (mode set will take effect the next time you turn on the transmitter). If you hear 3 beeps keep holding down the THROTTLE CUT button about next 3 seconds you will hear a long beep and 3 short beeps. If you release the THROTTLE CUT button now - the Store Mode will be set and for starting / stopping the timer will be used position of throttle stick already stored in memory (set mode to take effect the next time you turn on the transmitter). After you hear one prolonged and three short beeps continue to hold down the THROTTLE CUT button about next 3 seconds you will hear a series of six longer beeps - during this series you have to release THROTTLE CUT button and set the throttle stick to the desired position. At the completion of a series of beeps will throttle position stored in memory and transmitter must be switched OFF. Mode can be changed anytime by the above procedure.

See also diagram on next page.

The module comes with default Classic mode. Throttle position stored in memory is about 15% of the maximum of throttle.
When you binding the transmitter/receiver – automatic timer does not start.
If we want to do range checking it is necessary to have a transmitter in the automatic mode off.

Author is not responsible for any damage occurred during the installation or using of device.

PRICE:

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

Contact: jaromacko100@gmail.com

* beep	**Automatic timer OFF**
	Release THROTTLE CUT button if it is pressed
cca 2 sec	Wait cca 2 seconds
	Press and **hold** THROTTLE CUT button ...
cca 3 sec	... wait cca 3 seconds ...
*** beeps	... and release THROTTLE CUT button at this moment and turn OFF the transmitter if you need to set **CLASSIC mode**. Setting will take effect the next time you turn ON the transmitter...
cca 3 sec	... or still hold THROTTLE CUT button next cca 3 seconds ...
_*** beeps	... and release THROTTLE CUT button at this moment and turn OFF the transmitter if you need to set **STORE mode**. Setting will take effect the next time you turn ON the transmitter....
cca 3 sec	... or still hold THROTTLE CUT button next cca 3 seconds ...
6 long beeps	... and release THROTTLE CUT button when the module starts generate 6 long beeps. During 6 beeps you have to set throttle stick do desired position. After the beeps turn OFF the transmitter. Set position of throttle stick will be stored in memory and will be set **STORE** mode. Setting will take effect the next time you turn ON the transmitter.
turn OFF the transmitter	