

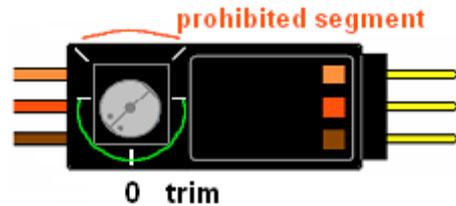
Servo inverter NF – INV2

Description:

The **NF-INV2** module (**Night Fly - Inverter**) serves to reverse the servo movement direction i.e. the sense of deviations. This functionality is usually part of all senders nowadays; however, there are still applications for the module to be used at. Especially there, where it is necessary to realize mirror movement with one channel and a mechanical solution would cause problems. In ship modeling as well as models of army and construction equipment, the unit can be used for opening of two-wing hatches or covers, crossbars and gates. As to flying models, it is necessary in many cases to use a servo located reversely in each wing for control of uplift flap. The module can find its use in this case, too.

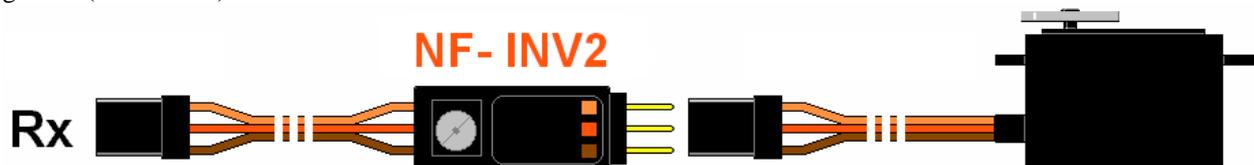
The module contains a potentiometer for setting-up centre position within $\pm 15^\circ$ standard variation of servo. The potentiometer serves to mutual static variation of both controlled elements. Trimmer position is indicated by the scale line on the potentiometer cursor (the end of the scale line with the points on the sides). Miniature type of potentiometer is a sensitive device requiring gentle manipulation i.e. set-up with a suitable screwdriver. **Never turn it**

to the red indicated „prohibited“ part of sphere. In this part, there is no guaranteed contact for the potentiometer so that floating of the servo centre position can occur and in case of a stronger interference even plucking.



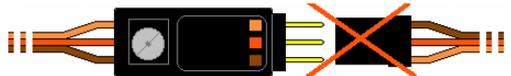
Installation:

The module can be just connected between the receiver and the servo cable. The module is connected to the receiver with a Graupner or Hitech connector. The servo cable or regulator cable is connected to the output connector on the other side. **Maximum voltage is 7,0 V.** This is the main difference between the NF-INV2 and NF-INV1. NF-INV1 is designed for 5V BEC and supports 5.3V max. Also the signal detection limit of the NF-INV2 is placed 1V under the limit of NF-INV1. So NF-INV2 can be used also with receivers having the output signal too small for NF-INV1. This is the case of some new Futaba receivers and some 2,4GHz receivers. For information - the chart below shows the minimal high of the signal (orange wire) depending on the supply voltage of the unit (red wire) against the ground (brown wire).



ATTENTION, the output connector is not secured against change of polarity. The order of colors must be kept the same as on the cable to receiver, as indicated on the first picture.

The same colors must be towards each other, not the other way!



If the module or servo cable is sensitive to touch, when voltage is switched on, check whether the potentiometer position is not in the prohibited area. Another very likely cause is a free overthrust of the servo cable to the module connector. A dependable contact can be ensured by bending down the middle contact by a half, or at most its entire size. Bend it with small pliers, holding the module in your fingers as close as possible to the connector to reduce the risk of the contact's breaking..



Have a nice fly.

Technical parameters:	min.	typ.	max.
Operational voltage:	3,55V	5,0V	7,0 V
Consumption:		< 1.7 mA	
Operational temperature:		0 – 70 °C	
Dimensions:		30,0 x 10,5 x 6,5 mm	
Weight:		3.9 g	
Pulse width:		0,95 ms – 2,05 ms	
Trim:		-15° – +15°	

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