

# Genoa mixer double winch 4



## Description:

The Genoa mixer double winch provides over two sail winches the position of the sail. Here, a sail winch controls starboard and the other is used for port.

The two power plugs have to be plugged into the receiver. At the entrance 1, the signal for the sail position is detected. With entrance 2 you can change sides between starboard and port.

To operate the control a proportional channel (sliding or rotary potentiometer) and a 3-position-switch are required at the transmitter. Is only a 2-position-switch available, the change between the winches takes place instantaneously. The described center position is not available.

## Connecting description:

The Genoa mixer is plugged between the receiver and the sail winches. Both plugs must always be connected to the receiver, otherwise the mixer does not work.

With the channel to the position of sailwinch (input 1) a sail winch can be set respectively.

With the channel to change sides (input 2) the active sailwinch is selected.

Each inactive sailwinch automatically moves to the end position "completely veer out." To switch between the winches a 3-position switch on the transmitter is needed (locked, no buttons) or a switch with 2 positions (also locked).

With the switch in the middle position (only for a switch with 3 positions), both winches are completely veered, the sail can move freely. The proportional channel (input 1) has no function.

When the switch is moved to a end position, you can control one winch by the transmitter. In the other end position, the other winch is controlled.

## Setting the direction:

The directions of movement of the sail winches can be set via jumper. Is the switching channel at the transmitter into its center, both winches shall be completely veered out. The exact position must be done mechanically. If one or both winches are in the wrong position and has hauled, so bridge shortly the pin connector. As a result, one winch is reversed. After four times bridging every possibility of the winches is reached and it begin from the beginning. The last setting is stored permanently.

## Set the control angle:

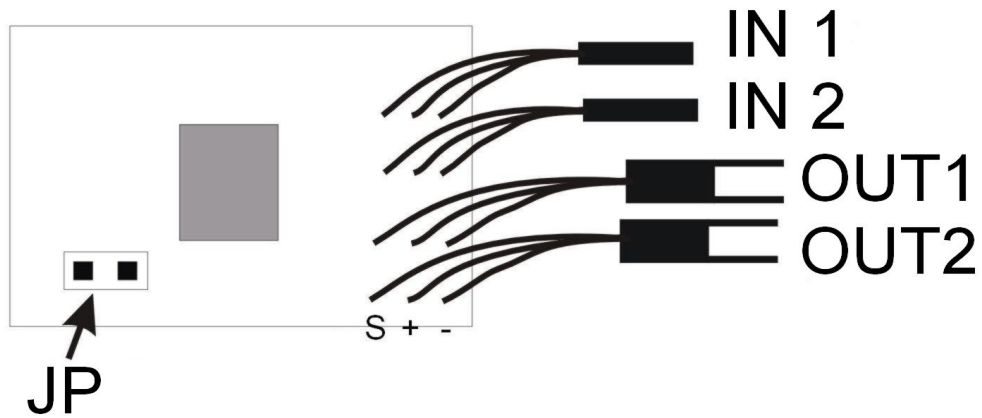
The maximum distance of the sail winches can be adjusted. A servo travel of 100% is the factory default setting.

You should first connect the winches directly to the receiver and find out the desired maximum travel. Then plug the control unit between the receiver and the winch and proceed as the following steps:

1. switch off the receiver
2. put the jumper on the pin connector (JP)
3. set the proportional channel on the transmitter to a desired end stop. The maximum value may also be set to 150% or more.
4. switch on the transmitter and receiver and wait a few seconds. The first signal received by the winch controller is taken as the first end stop.
5. set the proportional channel to the other end position
6. unplug the jumper. The last measured value is taken as the second end position.

Attention: Both positions must be far enough from each other (min. 50% control travel). If this is not fulfilled, the new values are not taken over and the old values remain.

Wiring Diagram:



IN 1: input 1: position of the sail winch

IN 2: input 2: change sides between starboard and port

OUT 1: outlet 2: sail winch 1

OUT 2: outlet 2: sail winch 2

JP: Setting of the direction of the sail winches or change the winch end positions