



25 OCT 09

The purpose of the **S3D-switch-it.GRA** is to allow you to switch between your existing 35 MHz or 40 MHz transmitter module (0) and the **uno-wave.UNI** or **duo-wave.UNI** - without having to open the transmitter case.

A LED connected to the switch indicates whether you have used the change-over switch to select the old transmitter module (35/40 MHz - LED off) or 2.4 GHz (LED lit).

The switch is a latching type which cannot be operated accidentally: the toggle must be lifted before it can be moved.

### Installation

- 1 Locate a suitable position for the **wave** transmitter module (1). In most cases there is sufficient space under the unused expansion wells.
  - 1.1 The blind grommets in the holes can be removed by pushing on the tip of the spigot from the inside of the transmitter.
  - 1.2 The module can be held in place very simply using Velcro (hook-and-loop) tape.
- 2 A hole of 6.5 mm diameter is required for the switch (2).
 

Fit the switch in the hole and adjust the locknut so that the threaded length exposed on the outside of the transmitter is the thickness of two nuts.

  - 2.1 **Toggle orientation:** we suggest that the switch toggle should face the LED when switched on. To accomplish this, the red wire attached to the switch must be located on the side away from the LED.
  - 2.2 **Sequence on the threads:** locknut, washer, shakeproof washer, transmitter case, external nut.
- 3.1 If you wish to use the **two-part LED mount**, then the hole for the LED (3) also needs to be 6.5 mm in diameter.
  - 3.1.1 Push the LED mount through the hole from the outside until the flange rests on the transmitter.
  - 3.1.2 Push the retaining ring over the LED as far as the LED power wires.
  - 3.1.3 Insert the LED in the mount from the inside to the point where its flange engages inside (!) the mount. Use a suitable tool, such as a small screwdriver, to push on the flat side of the LED. Take care not to bend the LED pins. At the same time hold the mount (but not the LED) firmly on the outside, to ensure that the end of the mount is able to open slightly in order to accept the flange of the LED.
  - 3.1.4 Hold the retaining ring parallel (!), and push it over the flange of the mount until it rests against the transmitter case.
- 3.2 If you prefer to install the **large, more elegant, one-piece LED mount**, then you will need to bore an 8 mm diameter hole in the transmitter case.
  - 3.2.1 Working from the inside of the transmitter, insert the LED (3) in the 8 mm Ø hole.
  - 3.2.2 Push the mount over the LED from the outside until the parts engage; the LED head should project by just on 3 mm.
  - 3.2.3 With the LED engaged, push the mount back into the 8 mm Ø hole.
- 4 Further holes of 6.5 mm diameter are required for the bases (4) for the 2.4 GHz aerial(s).
 

If you intend to set the aerials parallel to each other in order to use the transmitter for operating model boats, set the two aerials as wide apart as possible.

  - 4.1 **Sequence of installation at the aerial bases:** aerial plug hexagon, shakeproof washer, transmitter case, external nut. Tighten the aerial plug firmly using two 8 mm open-ended spanners, so that the aerial connector does not come loose again when the stub aerial is screwed into place.

### Wiring

- 5 Insert the small four-pin plug (5) (i.e. the plug with three wires) in the appropriate socket on the **wave** transmitter module (1).
- 6 Withdraw the four-pin connector (6) (i.e. the connector with four wires) from the socket (9), which is located on the bracket (10) of the original transmitter module (0). Work carefully, pulling it straight up.
- 7 The connector (6) you have just removed should now be connected to the four-pin connector (7) attached to the S3D-switch-it lead.
- 8 Locate the four-pin connector (the one with the four wires) attached to the S3D-switch-it lead (8), and connect it to the socket (9) on the bracket (10) of the original transmitter module (0).

### Checking

- 11 Move the S3D-switch (2) away from the LED (3).
  - 11.1 Switch the transmitter on: the usual screen displays should appear.
  - 11.2 Now operate the S3D switch (2): the 2.4 GHz LED (3) should light up, and the status LEDs in the transmitter module should work.
- 12 Deploy all the wiring (aerial cables, switch leads) neatly inside the transmitter case, and secure them where necessary using cable-ties or similar. **CAUTION: it is essential to avoid subjecting the thin aerial cables to mechanical stress, as they are delicate and could be damaged.**

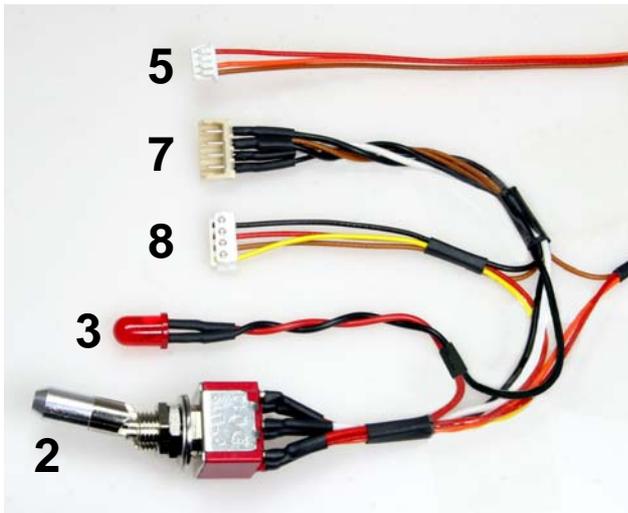
# S3D-switch-it.GRA

## Einbauanleitung für mc-18/19/20/22/22s/24



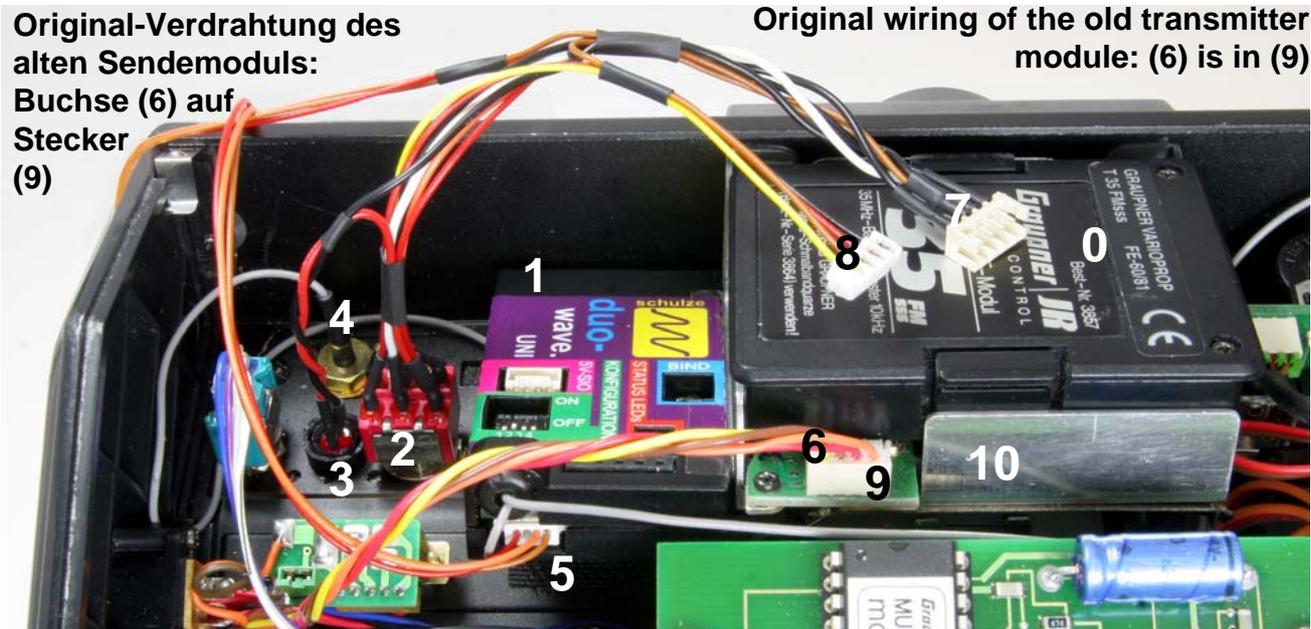
schulze  
elektronik  
gmbh

Stand: 25 OKT 2009



Original-Verdrahtung des  
alten Sendemoduls:  
Buchse (6) auf  
Stecker  
(9)

Original wiring of the old transmitter  
module: (6) is in (9)



Modifizierte Verdrahtung mit  
Umschaltmöglichkeit auf 2,4 GHz:  
6 auf 7,  
8 auf 9

Modified wiring 2.4 GHz  
(6) to (7), (8) to (9)

