

# TopRC Mini-Plane Series

## Aftermarket receiver installation

It is possible to pair your TopRC mini-plane to an appropriate RadioLink S.Bus or Futaba S.Bus (FASSTest / S-FHSS) R/C air system and use your regular transmitter to fly the model. With this in mind please use the following pointers to assist with the receiver installation, transmitter set-up and trimming of your model.

### Receiver choice

Your chosen Futaba or RadioLink receiver will need to be S.Bus compatible and, similarly, compatible with the transmitter you're using. It will also need to be small enough to fit within the fuselage of your mini-plane.

### Receiver installation

1. Position the receiver where it will not adversely affect the centre of gravity of the aeroplane and, hence, the flying characteristics.
2. Take the S.Bus lead supplied with the model and connect the micro plug to the socket marked 'SBUS' on the model's pre-installed control board.
3. Attach the three pin 'Futaba' style connector to the protruding pins of your receiver's S.Bus port.

**NOTE:** Your TopRC mini-plane uses conventional channel numbers for aileron, elevator, rudder and throttle control, with channel 5 as the adopted gyro channel.

### Radio configuration

1. Assign a 3-position switch to Channel 5 to control the gyro function.
2. Set the aileron travel limit (EPA) to 70%.
3. The amount of aileron exponential that you apply will be dependent on personal preference but, in any event, should be set between 45 and 60%.
4. Elevator and rudder exponential can be set using more conventional values of between 10 and 15%.

### Flying & trimming

When trimming the ailerons use the digital trim button to establish initial settings, then land, note the trim offset, re-centre the trim positions and mechanically adjust the control surface neutral positions by opening or closing the piano wire loops located close to the control horns. It is necessary that you trim the ailerons in this fashion due to the gyro's reliance on sensing a centred aileron servo and allowing the motor to arm. The motor will not arm if the aileron trim positions are not centred.

**CAUTION:** When paired to the supplied TopRC transmitter your mini-plane requires that the throttle stick be raised and lowered to arm the model prior to flight. In fitting your own receiver this function is disabled. As such, please ensure that the throttle stick is in the closed position before connecting the battery.