

# Flight Stand 15/50 Coaxial Kit General User Manual

The coaxial kit (SKU: TCTU) is intended to simplify the process of testing two propellers at various axial and radial distances.

## Introduction and item checklist

Check that you have the following items in the box:

- 1 x NEGP - FS15/50 Stand to Rail Fastener Bag
- 1 x SJFS - FS15/50 Slide-in T-nut Bag
- 1 x BGHG - FS15/50 Drop-in T-nut Bag
- 1 x QAHJ - FS15/50 Rail L bracket Fasteners Bag
- 1 x EVVW - FS15/50 Two Stand Attachment Bag
- 28 x JCNM - 30 Series 2 Hole - Inside Corner Bracket
- 2 x VMGJ - 30-3030 rail - 4 feet long (30mm x 30mm)
- 2 x PHGU - 30-3030 rail - 2 feet long (30mm x 30mm)
- 4 x LKGN - 30-3030 rail - 7 cm long (30mm x 30mm)
- (Not included) 15 x Anchor adapted to the ground you are going to use. The minimum pull strength of the fasteners should be 200 kg, but we recommend more to increase the rigidity of the anchor. A flat ground is preferable as it helps to reduce vibrations. The anchors must be attached to the corner brackets facing the ground.

## Assembly of the rails

Assemble the rails according to Fig. 1 (next page). The position of the short rails relative to the long rails is up to you and depends on the type of coaxial tests you intend to do. A mix of slide-in T-nuts and drop-in T-nuts is provided for convenience: they can be installed anywhere. The short 7 cm rail should be placed approximately in the middle of the two long rails for rigidity.

## Assembly of the coaxial attachment plate

The force of the propeller causes the stand to bend and vibrate. This is normal. The coaxial attachment plate is intended to prevent the force measurement units (FMUs) from touching each other during a back-to-back test. To install it, remove the top most nut from the upper L-brack B of your two stands. Install the coaxial attachment plate on the exposed bolts and reattach the nuts.

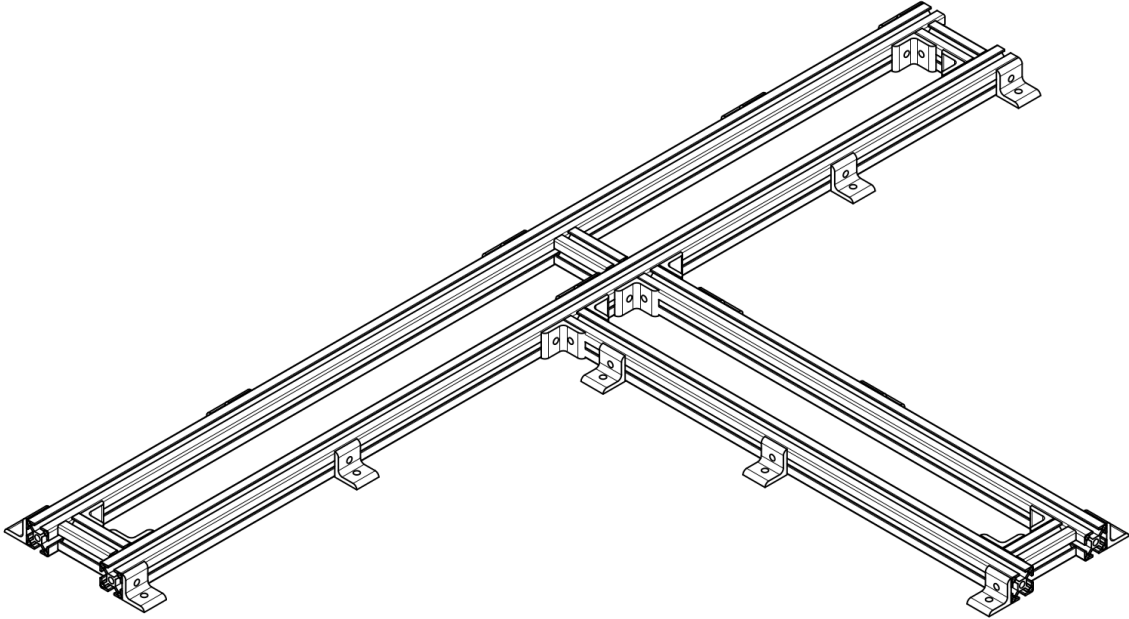


Fig. 1. Assembled Coaxial Kit Rails