

## Falcon F16 tuning guide

### GENERAL RIG SETTINGS

- Spreader Rake : 65- 72mm (factory setting is 68mm)
- Spreader tip to tip: 825 mm
- Diamond Tension: 30-32 on the Loos gauge (factory setting is 32)
- Mast Rake: Front edge of the rear inspection port using the trap wire method.
- Rig tension: 20-25 on the Loos gauge

### SAIL TRIM UPWIND

Always ensure the hull is horizontal in the water. Crew position is the most important. In light conditions this means you will have to move forward, when there is more wind you will have to get more backwards on the boat.

	Light wind (1-5 knots)	Medium (6-15 knots)	Strong wind (16-25 knots)
Crew position	Crew in front of front beam windward Skipper forward next to crew	Double trapping. Move back to keep the hull level (see Hull)	Double trapping at the back to keep the nose up (see Hull)
Hull	Bow +/- 1/3 in the water	Bow just in the water	Bow out of the water
Mast rotation	Point at the front of the daggerboard	Reduce as you put more downhaul on	Pointing at the crossing of the back beam and hull
Downhaul tension	Pull out the major wrinkles	Increase to keep the hull just flying out of the water. In gusty weather add tension so no more than an arms length of sheet is required to trim the boat	Max on
Main sheet tension	Light (all tell tales flowing)	Firm	Firm
Main traveler	Centered	Centered	Centered (200mm out from 20+ depending on crew weight)
Jib sheet tension	Light but keep shape	Firm	Firm
Jib traveler	Between track supports (keep the slot open)	Just in front of the outer support	At the outer stops
Daggerboards	Fully down	Raise with 50mm increments once you start to apply downhaul. In gusty winds you will have to raise the daggerboards higher than in stable conditions	300mm above deck
Outhaul	90mm from the boom	Auto adjust	Auto adjust

## SAIL TRIM DOWNWIND

The Falcon with its asymmetric spinnaker is an absolute blast to sail down wind. Thanks to the refined hull shape the boat is a dream to sail downwind, even in wavy and gusty conditions.

	Light wind (1-5 knots)	Medium (6-15 knots)	Strong wind (16-25 knots)
Crew position	Crew in front at the leeward side Skipper far forward next to the mast	Both on the windward hull or crew trapping. Move the crew weight front and back in puffs and lulls	Crew trapping out fully back. Skipper mid tramp at the back beam.
Hull	Bow +/- 1/3 in the water	Bow just in the water	Bow out of the water
Mast rotation	Open	Open	Open
Downhaul tension	Off	Off	Off
Main sheet tension	Light	Firm	Firm
Main traveler	Centered (open 150mm in very light conditions)	Centered	Centered (200mm out from 20+ knots depending on crew weight)
Jib sheet tension	Light (trim so the top is trimmed correctly)	Medium (trim so the top is trimmed correctly)	Medium (trim so the top is trimmed correctly)
Jib traveler	Same as upwind	Same as upwind	Same as upwind
Daggerboards	Fully down	Raise with 100mm increments once you start to feel the boat lifting in stead of moving forward. In gusty winds you will have to raise the daggerboards higher then in stable conditions	480mm above deck (max. you can pull the boards up with the dagger pull control line)

