

## Lower rear and lower side rigging assemblies V1.1

## 1) Lower rear rigging, QuikR with STARS, all GT450 and all GTR wings with trailing edge shift cables.

The lower rear rigging rocker assembly is shown in drawing YQD-050-KIT (GT450). The QuikR and GTR wings are identical in this area. The latest version with Nicopress end fittings is shown but the assembly will also accept roll swaged terminal ends.

The lower rear rigging rocker articulates when the wing is rolled, so relieving bending loads on the wing keel and allowing the cables to align properly. The rocker assembly is designed so that all 3 bolts are tightened up against the bushes (part 41 in the drawing) so they do not rotate. Leaving the bolts free to rotate is NOT acceptable as castle nuts/split pins would be required to lock them and the rate of wear would be greater.

The original design of lower rear rigging cables use a Blue Wave roll swaged end termination with an eye 4.8mm thick. These were unavailable for a short time and an alternative Tecni end termination has been used, specified 5mm but some actually measure 6.1mm thick.

The end termination has now been changed to a Nicopress thimble, 5.2mm thick. The standard bush ZSP-308, 12mm long, will give enough clearance for end terminations up to 5.5mm thick.

If this is not sufficient to provide articulation, a longer bush ZSP-308-14 (14mm) is available. Note there are 7 plastic washers (FWP-011) in the assembly.

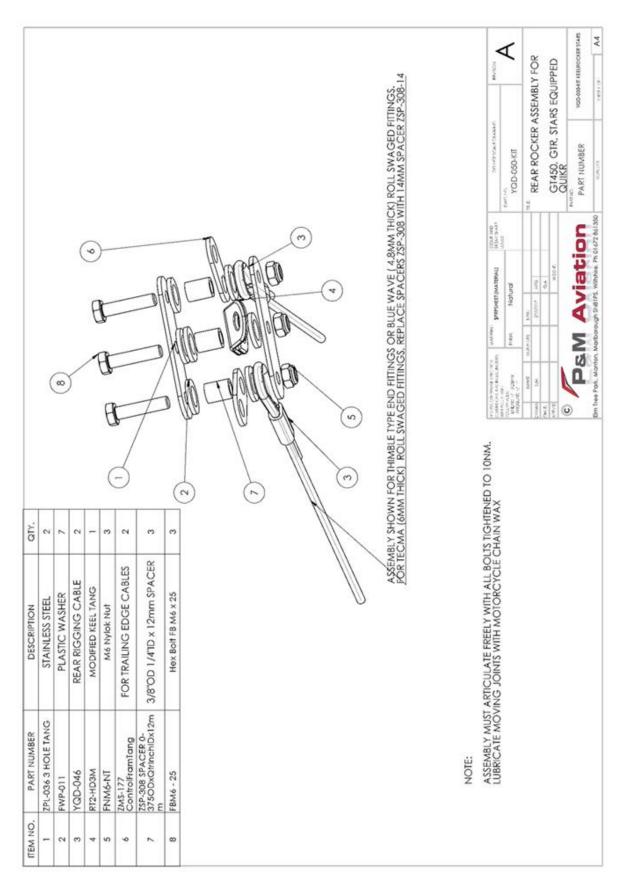
It has also come to our attention that the rocker bushes had been made short on some aircraft, possibly early production GT450 aircraft are the most affected.

When replacing the wires under SB 147 a combination of the thicker roll swage end terminations and short bushes could result in the rocker assembly tightening up so that it will not articulate.

When replacing cables, If the rocker assembly goes tight when the 3 rocker bolts are tightened, new, longer rocker bushes are required.

New nyloc nuts part FNM6-NT should be used on assembly. They should be tightened to 10NM.

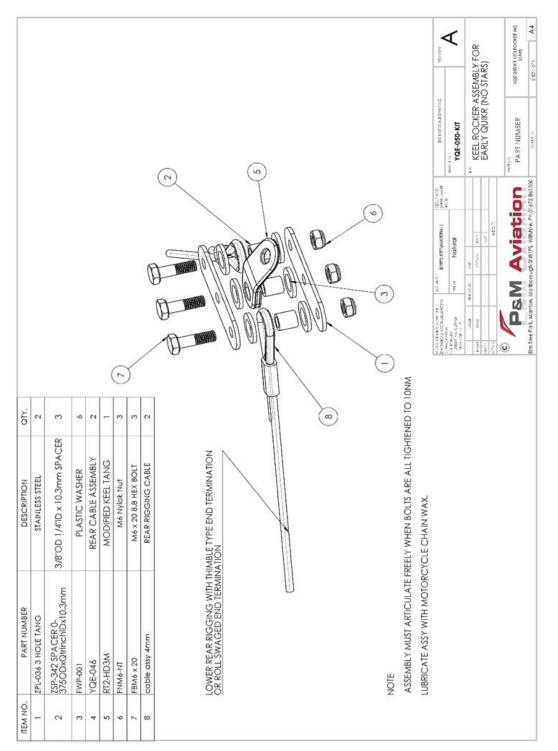






## 2) Lower rear rigging, early QuikR without STARS, GTR wing fitted to the Hypertrike (no trailing edge shift cables)

For these aircraft, the absence of the trailing edge shift cables means shorter bolts and spacers are needed. Note machined brass bushes and plastic washers are used in this assembly, as the original design used steel bushes which were subject to corrosion. There are 6 plastic washers in this assembly.





## 3) GT450 lower side rigging replacement.

The lower side rigging has been modified with Nicopress end fittings. The cable YQD-045 is now supplied with a 3mm thimble one end, identified by a white marker, which fits to the control frame end and a 4mm thimble at the cross boom end. The bolts should be done up allowing the cables to align with the load. The 3mm thimble is interchangeable with the original roll swaged terminal.

