Technical Note TN.JS-004 06 September 2011

TITLE
Wing Water Valve Seat

DESCRIPTION
The water valve seat is designed to be removable. A resin/filler base thread is created around the valve seat during the wing skin manufacturing process. The continuous curing properties of the resins may result in an increase of the tolerance between the seat and the skin. This may cause water to seep through the thread area (Part Number 1A-2.21.11).

This technical note sets out the seal procedure to prevent any water seepage.

INSTRUCTIONS
With reference to drawing D1A-2.21.10 v5.0 the wing water tank valve seat is Item 9.

1. Remove the spring (Item 8) from the wing torsion tube
2. Prop the wing torsion tube open (Item 1) so that the valve body is clear of the valve seat
3. If the two optional 4mm holes have not been drilled into the valve seat; drill them now as per the drawing.
4. Unscrew the valve seat using the two 4mm holes. A special tool may be required, see attached drawing.
5. Remove any remaining epoxy on the thread using a steel brush
6. Degrease seat thread using acetone
7. Inspect wing side thread for damage
8. If the wing side thread is damaged;
    a. Apply epoxy cab-o-sil mixture onto both the wing side thread and the valve seat thread (Do not use vinyl ester or poly ester based resins).
    b. Screw the valve seat back into the wing until flush with wing surface
    c. Wipe the valve seat surface with acetone to remove any epoxy which may prevent the rubber seal from sealing with the seat.
    d. Wait until the epoxy has cured before reinstalling the spring

9. If the wing side thread is undamaged;
    a. Apply a thin layer of PTFE thread seal tape onto the valve seat thread
    b. Screw the valve seat back into the wing until flush with wing surface
10. Check valve body and rubber seal are seated correctly on the valve body

MATERIAL SUPPLIED

Wing Water system valve drawing D1A-2.21.10 v5.0

Valve Seat Tool D1A-5.01.60

MATERIAL REQUIRED

Epoxy and cab-o-sil mixture

Acetone

Steel brush

PTFE thread seal tape

MASS AND BALANCE

No change to mass or balance

MANUALS

No change to Flight or Maintenance Manuals

NOTES

Water seepage is not considered a critical condition as the water lost during flight is minimal and does not affect flying qualities.

This technical note must be completed by an approved maintenance person.