

KESTREL Modification No. 14

Emergency Pitot Installation

This modification is optional and may be fitted to all Kestrel Gliders.

Procedure.

- 1) Remove the instrument panel from the glider.
- 2) Remove the cover on top of the nose quick release housing by undoing the counter sunk screws holding the cover.
- 3) Remove the light cover over the rudder pedal slide by undoing the two counter sunk screws on centre line.
- 4) Drill a $\frac{1}{4}$ " diameter hole in the back face of the quick release housing in a similar position to the hole for the air vent operating tube but opposite to it.
- 5) Fit the copper tube as shown in the diagram, bell out the end at the quick release end and fit the 'P' clip with a pop rivet or similar to secure the pipe.
- 6) Fit the flexible pipe to the copper pipe using 'P' clips secure the pipes to the rudder slide as on the ventilator control tube.
- 7) Mount the ball valve switch onto the instrument panel with the label enclosed.
- 8) Plumb the pipe work into the ball valve as follows:-

Port 1 - Emergency pitot
Port 2 - Instruments
Port 3 - Normal pitot

and connect to the four-way connector.
- 9) With the switch toggle perpendicular to the instrument panel the normal pitot is connected, in any other position the emergency pitot is connected.

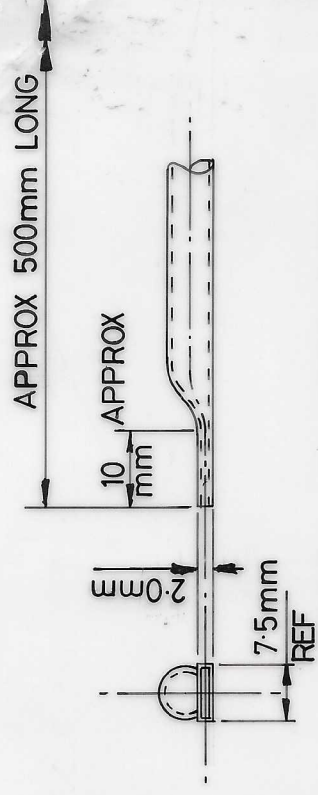
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- 10) Refit the covers removed at 2) and 3) and replace the instrument panel.
- 11) Check all controls for free operation and the instruments for correct functioning.

Parts required.

- 1) Copper pipe 500 mm x $\frac{1}{4}$ " od. x 22 swg.
- 2) Plastic tubing 1 m x $\frac{1}{4}$ " id.
- 3) 3 'P' clips
- 4) Ball valve with adaptors. Stores code 107-01-219/220
- 5) Label.

These parts may be obtained from Slingsby Sailplanes,
Kirkbymoorside, York, ENGLAND.



DETAIL OF PITOT TUBE
($\frac{1}{4}$ " 22G SOFT COPPER TUBE)

AFTER TUBE HAS BEEN FORMED AS SHOWN ABOVE POSITION AS SHOWN, THEN "BELLMOUTH" TO RETAIN

UPPER MOUNTING BOLT

'P' CLIP HELD WITH 'POP' RIVET

TUBE DETAILED ABOVE

ROUTE TUBE UPWARDS TO PREVENT WATER TRAP

HOOK STOP

$\frac{1}{4}$ " BORE NYLON TUBE SLEEVE

BOND TUBE IN DIAPHRAGM WITH FLOCK OR ARALDITE ADHESIVE

NOSE QR

VIEW ON ARROW "A"

SECTION ON AIRCRAFT