

JULY, 1969.

TECHNICAL INSTRUCTION NO. 40

Slingsby T.53.B. - Mod. No. 15

CHANGE OF TAILPLANE INCIDENCE

It is required to change the incidence of the tailplane to  $1^{\circ} 50' \pm 20'$  measured from the aircraft datum.

This modification has been made mandatory on all aircraft  
by the British Air Registration Board.

Modification Procedure

1. Set fuselage in level position and check tailplane incidence to drawing No. 53B-00-3 iss. 5.
2. If incidence is incorrect remove front tailplane attachment fitting by removing four bolts, item No. 1 on detail "A" of drawing No. 53B-09-139 iss. 1.
3. Drill out rivets, item No. 2 on detail "A" of drawing No. 53B-09-139 iss. 1, then carefully remove the fibreglass fairing, with special reference to the airspeed pitot head connection.
4. Fit packing, item No. 4 on detail "B" of drawing No. 53B-09-139, iss. 1, below front tailplane attachment fitting. This should be of sufficient thickness to bring the tailplane incidence within the drawing limits of  $1^{\circ} 50' \pm 20'$ .  
  
Secure with new bolts, items 3, 7, 8, 9, or 10 (depending on the length required) on detail "B" of drawing No. 53B-09-139 iss. 1. These should be longer than those removed in "2" by at least the thickness of the packing.
5. Fill redundant holes in fin skin with rivets, item No. 5 on detail "B" of drawing No. 53B-09-139 iss. 1.
6. Drill six new holes in each side, between existing holes for rivets item No. 6 on detail "B" of drawing No. 53B-09-139 iss. 1. after repositioning fairing to line up with new tailplane position.
7. Fix fairing in position with Araldite or similar epoxy adhesive, and rivet with item No. 6 on detail "B" of drawing No. 53B-09-139 iss. 1.
8. Reset elevator movements and trim spring tensions to drawing No. 53B-00-3 iss. 5.
9. Fill redundant rivet holes in fairing and make good external finish.
10. Recover all drilled out rivet tails from inside of fin.
11. Check airspeed pitot head connection, and pipe for leaks and kinks.
12. Inspect and record in aircraft log book.

TECHNICAL INSTRUCTION NO. 40Slingsby T.53.B. - Mod. No. 15PARTS REQUIRED

<u>No. Off</u>	<u>Part No.</u>	<u>Description</u>
1	53B-09-139	Drawing
1	53B-00-3	Drawing
1	53B-88-101	Drawing
4	A25/7C	Bolts
4	A25/6C	Bolts
4	A25/5C	Bolts
4	A25/4C	Bolts
4	A25/3C	Bolts
20	TLP/D/424	Rivets
20	TLP/D/419	Rivets
4	53B-09-139/4	10 swg. Packing
2	53B-09-139/4	16 swg. Packing

These parts can be obtained from Slingsby Aircraft Co. Ltd.,  
Kirkbymoorside, York, England.