

Post-Paint>Wings>Fit stall warning

Objectives of this task:

To fit the stall warning device to the left wing.

Materials required:

Card #6: 'Stall warning'

5-minute Araldite and flock

Mark and drill the wing root

Mark a position in the left-hand wing root 35mm back from the front wing attach lug and drill a 10mm hole at that location. The clear plastic tube will enter the wing here.

Assemble the stall warning

Use 5-Minute Araldite and flock to fix the aluminium stall warning funnel to the plate, about 4mm back from the front edge, and then cut the stainless steel gauze to size and flock it by the edges to the front of the funnel as shown at right.

Leave to cure, then round the front edges of the plate carefully. Roughen the sides and bottom of the assembly.

Mark and cut the leading edge

Measure out 1195mm from the wing root of the left-hand wing and mark the location. Use cloth tape to protect the paint on the leading edge of the wing during this step.

Using the drawing on the next page, locate the vertical centre of the stall warning aperture and mark the location. Recheck your measurements carefully and drill a pilot hole, then widen the hole to 10mm and file carefully out to a rectangle 12mm high and 19mm wide. The top of the opening should be *precisely* on the leading edge of the wing. Final size the hole to fit the stall warning assembly.

Hold the lip at the bottom of the assembly with pliers while fitting – be careful not to drop it inside the wing.

Fit the stall warning assembly

Use a steel rod to feed the plastic tube in from the wing root and through the wing ribs until it can be seen through the hole in the leading edge, then pull the tube through using a wire hook and glue and lock wire the tube to the rear of the stall warning funnel.

Apply 5-Minute Araldite and flock to the bottom and sides of the stall warning assembly and carefully slide it back into the wing until the gauze is flush with the leading edge of the wing and leave to cure. Remove the protective cloth tape.



| THIS DRAWING IS COPYRIGHT AND MUST NOT BE COPIED WITHOUT CONSENT OF AVTECH PTY LTD | DIMENSIONS IN MILLIMETRES | DO NOT SCALE | PROJECTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:10%;">ITEM</th> <th style="width:10%;">PART No.</th> <th style="width:80%;">DESCRIPTION</th> <th style="width:10%;">QTY.</th> </tr> <tr> <td>4</td> <td>2061394</td> <td>STALL WARNING TAB 0.5mm</td> <td>1</td> </tr> <tr> <td>3</td> <td>2082014</td> <td>STALL WARNING FUNNEL</td> <td>1</td> </tr> <tr> <td>2</td> <td>PV0106N</td> <td>HOSE PVC 3/8 ID</td> <td>.6m</td> </tr> <tr> <td>1</td> <td>203913N</td> <td>HORN</td> <td>1</td> </tr> </table> | ITEM | PART No. | DESCRIPTION | QTY. | 4 | 2061394 | STALL WARNING TAB 0.5mm | 1 | 3 | 2082014 | STALL WARNING FUNNEL | 1 | 2 | PV0106N | HOSE PVC 3/8 ID | .6m | 1 | 203913N | HORN | 1 | <p>BOND FLANGE INTO CUTOUT WITH 5 MIN EPOXY. TUNE STALL WARNING SPEED BY BENDING FLANGE. BEND DOWN TO LOWER SPEED. BEND UP TO RAISE SPEED.</p> <p>EDGE BOND STAINLESS STEEL MESH INTO CUTOUT WITH 5 MIN EPOXY. GAUZE TO BE FLUSH WITH OUTER SKIN.</p> <p>SECTION AA SCALE 1:5</p> <p>DEFAULT ANGLE FOR STALL WARNING FLANGE 30° TO CENTRELINE OF WING. FLANGE TO PROTRUDE 4mm. IF REQUIRED, FLANGE MAY BE TRIMMED LATER TO ADJUST STALL WARNING SPEED.</p> | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;">JW</td> <td style="width:10%;">3</td> <td style="width:10%;">090908</td> </tr> <tr> <td>JW</td> <td>2</td> <td>080808</td> </tr> <tr> <td>SCALE</td> <td>1</td> <td>150402</td> </tr> <tr> <td>ISS.</td> <td></td> <td>DATE</td> </tr> </table> | JW | 3 | 090908 | JW | 2 | 080808 | SCALE | 1 | 150402 | ISS. | | DATE |
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| LIMITS | AVTECH P/L A.C.N. 010 786 973 HINKLER AIRPORT BUNDABERG | DRAWN | DS | DWG. NO. 2091024-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MATERIAL AS DETAILED | TITLE STALL WARNING ASSY -- SERIES IV WING | APPR. | SHEET 1 OF 1 A4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

This completes the *Post-Paint>Wings>Fit stall warning* task.