



Service Bulletin

S.B. No: 188

Title:

INSPECTION FOR RUDDER PEDAL CLEARANCES BETWEEN RUDDER PEDALS AND THE AIRCRAFT STRUCTURE AND COMPONENTS ALSO INSPECTION FOR GROUND TOWING DAMAGE.

Compliance:

- a) Referring to new paragraph 9, compliance required prior to next flight.
- b) Otherwise within 50 flying hours from receipt of issue 2 of this Service Bulletin and every subsequent Annual.

Applicability:

T67B, T67C series, T67M (excluding works no. 1999), T67M-MkII and T67M200 (excluding works no. 2264 & 2265).

This Service Bulletin is the subject of an EASA Airworthiness Directive 2007-0132 refers.

This issue 3 has been raised to incorporate further feedback from customers and in particular to include information on towing and the checking of the brake cylinder mounting brackets. Paragraphs re-numbered accordingly. All added/changed Paragraphs and Figures are indicated by a vertical bar in the left hand margin.

INTRODUCTION:

This Service Bulletin is issued to reinforce the importance of ensuring correct clearances and maintenance of the rudder operating mechanism, mountings and stops to ensure the required clearances for safe operation.

The issuing of this Service Bulletin follows an incident, which occurred during spinning. During spin recovery a rudder pedal fouled a component. On inspection it was observed that the floor was damaged allowing the rudder bar support bracket to distort and the bar and its pedal to float to the left greater than the limit allowable for safe operation.

Further to issue 2 an incident has been reported of the brake master cylinder becoming detached from its support brackets causing de-lamination to the port GRP floor panel. This failure occurred during aircraft taxiing. The failure was the direct result of the aircraft towing angle being exceeded.

The maximum towing angle is indicated by markings on the engine cowlings – under no circumstances should these limits be exceeded. The training of towing operatives should be carried out on a regular basis to ensure safe towing of the aircraft at all times. Operatives should be made aware that the exceedance of the towing angle limitation markings on the aircraft's cowling can cause damage – refer paragraph 9 - to the rudder control system which may go undetected prior to flight and lead to an in-flight airworthiness situation and possible death to the occupants.

Signature	Signature Design CVE	Signature Slingsby Approval
Print Name: M. J. Rutter	Print Name N. THORP.	Print Name D W Gobbaso
Date: 16 th October 2007	Date 16-10-07.	Date 16 000.07
SLINGSBY ADVANCED COMPOSITES LIMITED Kirkbymoorside, York. YO62 6EZ Tel: 01751 432474 Fax No: 01751 433016 E-mail: mike.rutter@slingsby.co.uk		Page 1 of 16 Issue 3



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The use of non Slingsby type vehicle or hand tow-bars or trolley/cart, (i.e. that cradle the nosewheel), are PROHIBITED for use on the Slingsby T67 type aircraft.

Therefore only Slingsby tow-bars SHALL be used for towing, i.e. T67A-88-201 for vehicle towing and T67B-88-203 (adjustable handle length) or T67B-88-207 (fixed handle length) for hand towing.

Vehicles when used for towing with the Slingsby vehicle type tow-bar SHALL ensure that the driver has a clear view of the tow-bar turn limitation markings on the aircrafts cowling. Additionally ensure whilst towing with a vehicle that an operative occupies the cockpit ready to apply brakes in an emergency.

This Service Bulletin is issued to address the incidents related to above and to reinforce the importance of ensuring correct clearances, towing instructions and maintenance of the rudder operating mechanism, mountings and stops to ensure the required clearances for safe operation.

This Service Bulletin pulls together other Service Bulletins, which have been raised in the past to address clearance issues. The information contained within this Service Bulletin supersedes the Service Bulletins listed below and Maintenance Manual instruction regarding clearances where applicable.

- SB 015 Rudder Pedal to sidewall and Rudder Cable Clearances.
- SB 044 Check on Clearance Between Forward U/C Leg and Engine Mounting Frame.
- SB 049 Rudder Mechanism to Fuel Pipe Clearance Check.
- SB 051 Inspection of Rudder Cable to Link Plate Socket Head Cap Screw.
- SB 071 Inspection of Rudder Pedal Lay shaft Mounting Brackets.
- SB 083 Inspection for Foul between No.2 Rudder Pedal Pad Pivot and Nose wheel Steering Rod Arm.
- SB 168 Inspection of Cockpit Floor Beneath Port Rudder Bar Support Bracket.

ACTION:

Prior to starting the inspections it is recommended that this Service Bulletin is read in its <u>entirety</u> and understood. Ensure that notes are made of the positions of removed items to aid correct reassembly, unless otherwise specified by this Service Bulletin. If in doubt, contact Slingsby Advanced Composites Ltd, (SACL).

- 1. The rudder pedal operating mechanism is to be checked for full and free movement in all aspects of normal operation and abnormal operation, e.g. application of toe brakes during extreme pedal deflections during spin recovery. The checks are to take into account all rudder pedal adjustment positions. Note rudder pedals at positions 2 and 4 can be set passed the fully forward adjustment position; ensure for clearance checks that they are in this position. It must be also noted that during the clearance checks the pedals do not necessarily have a direct fore and aft load applied; there will be side loads on the pedal pads deflecting the pedal pad laterally or pivoting it about its slider. Load is defined as adequate load to fully operate rudder pedals and brakes, with adequate side load to take up any free play that might be in the system.
- Check forward, aft and lateral play in pedal pads and their sliders; ensure play is no greater than 5mm when pedals locked in any of the adjustment positions. If greater than 5mm then assembly requires refurbishment. Consult SACL if required.
- 3. Check rudder pedal bar end float is no greater than 0.8mm. Acceptable end float is 0.0mm to 0.8mm. If end float is greater than 0.8mm then rectify end float IAW paragraph 13. Refer Figure 1.



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- 4. Check that the Rudder Pedal bar port outboard support bracket, ref. Figure 1 and 3 is square to the floor and not "lozenged" and there is no deformation to its base. Check floor panel under area of bracket, inspect for cracking which could allow the bracket to lean. Remove the floor panel and check for signs of cracking in the floor around the anchor nuts on Pre Mod M919 aircraft or the anchor nut mounting plate Post Mod M919 aircraft, refer Figure 2. Any GRP damage will be shown as a white shadow on the GRP, with cracking felt as a rough edge. A light shining up through the floor will show a shadow.
- If floor under port outboard support bracket position is found to be cracked or broken then repair IAW DOI T67C-149 issue 4 and subsequent, incorporating Mod M919. If Mod M919 has been previously incorporated and floor is damaged inform SACL.
- 6. Check rudder bar for chafing from the hot air cable and rectify as necessary. For inspection procedure and rectification refer to SACL Service Bulletin SB 126.
- 7. Should Rudder bar support bracket be damaged replace with new item. Ensure bracket is secured with a torque of 58lbf in (6.5Nm). Spring washers may be fitted; Mod M720 "Introduction of Spring Washers to Rudder Pedal Lay-shaft Mounting Bracket Screws" refers. See Figure 1. Ensure when refitting brackets that the saddle washer, T67M-45-537, is re-fitted and is assembled with its corner radius into the brackets radius, refer Figure 1. Ensure that the shorter, (28mm), mounting brackets are supporting Rudder Pedal Bar T67M-45-257, i.e. Port Rudder Bar, refer Figures 1 and 3.
- 8. Check the remaining rudder bar support brackets, ref. Figure 3, are square to floor and are not "lozenged" and there is no deformation to their bases, reference Figure 1. If any bracket is found to be suspect replace with new item. Check floor under any damaged support bracket by removing panel. Ensure washers and brackets are correctly assembled refer paragraph 7 above. Inform SACL of any damaged bracket or additional floor damage. Assemble item as per paragraph 7 and ensure end float is as stated in paragraph 13. Ensure bonding leads are correctly fitted, carry out bonding check refer relevant aircraft's Maintenance Manual. Ensure correct length screws for attaching the rudder bar support brackets have been fitted in the correct positions, refer Figure 3.
- 9. Ensure that there is no gap at the brake master cylinder pivot points and that the support brackets are securely mounted to the floor panel, i.e. not lose, they should not deflect if base fastenings are sound. If bracket is seen to be suspect, i.e. out of square, twisted or bent, remove brackets and replace with new brackets if damaged. Check that there is no damage to the bracket anchorages in the removable floor panel, damage will show as whitening in the laminate surrounding the anchor nuts and foam reinforcement block, if in doubt remove panel and check anchor nuts for security. Figure 9 refers. The floor panel if found to be damaged is to be repaired or new panel fitted, refer to SACL Customer Support Department. If damage found then proceed as indicated by paragraphs 10 and 11. When rectified ensure all clearances and checks are accomplished as related to in this Service Bulletin.

Note: This check should be accomplished with the rudder pedal and brake system operating through to their extremes, as a gap can appear during the operation of the system, if the system is not correctly aligned or assembled.

- 10. If either the rudder bar support brackets or the brake master cylinder support brackets or floor panel or floor panel mountings are damaged then the entire rudder operating system should be thoroughly checked for damage to fittings, rudder pedal stops, rudder horn, cables, rear fuselage stops, nosewheel steering stops Pre M468 aircraft only, etc. If any damage is found please report back to SACL. Damaged items are to be repaired or replaced. When replacing brackets ensure attaching screws are torque loaded to 50^{+5/-0} lb. in.
- 11. If damage is found ref. Paragraph 9, then brake master cylinder to rudder pedal carriage attachment pin is to be checked for deformation/cracking, Figure 9 refers.



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12. An identifiable cause for the distortion of the rudder pedal bar support brackets and brake cylinder support brackets is the ground handling the aircraft with a vehicle or other mechanised trolleys/carts, whereby the towing arm or trolley/cart has been outside of the limitation markings on the cowling when the aircraft is turned. However if there is damage to the support brackets and the aircraft has knowingly never been towed by a vehicle then inform SACL. If the cowling has been repainted and/or limitation markings are missing or have been replaced then contact SACL to ensure correct limitation marking positioning. SACL vehicle and hand tow bars only shall be used for towing the Slingsby T67 series of aircraft, refer to introduction of this Service Bulletin.

Note: Ensure any airfield apron towing guidance markings are within the T67 Firefly aircraft's towing limitations.

13. Referring to Figure 1 ensure at each rudder bar pivot position that there is one spacer T67M-45-507 OR one off washer 126-23-748 and up to a maximum of two off washers 126-23-749, i.e. 3 washers maximum.

If end float greater than 0.8mm, then 1 off packing washer may be added at each pivot position as required, i.e. 126-23-105 washer or 126-23-748 washer or 126-23-749 washer.

If packing washers are required on the right hand rudder bar (T67M-45-259), then the packing washer, (or the thicker washer if a thick and thin washer are required) should be placed at the outboard pivot. When end float of 0.8mm maximum achieved ensure that the brake cylinders are not subject to undue side load. If in doubt contact SACL

Note1: it is imperative that the combination of packing washers is adhered to as any more than the stated amount may allow the rudder bar mounting brackets pivots to become out of safety.

Note 2: 126-23-105 or 126-23-748 are 1.6 mm thick and 126-23-749 is 0.81mm thick.

Note 3: Ensure after packing, that the bars are not binding and have full and free movement.

- 14. Check that the 'U' brackets are parallel and square to the rudder bar axis; Figure 7 View on 'A' refers. Also ensure the rudder pedal carriages have full and free movement. If binding is suspected then check the 'U' bracket internal dimension. This should measure 35.0mm to 35.5mm, also check that the pivot bush protrudes from its boss by 0.5mm. If the bracket internal dimension is greater or less, or if out of alignment then the bracket should be checked for cracking, refer Figure 7. If cracking is found then return rudder bar to SACL for rework. Finally check length of carriage pivot bolts, reference Figure 3, if binding is noted then replace bolts with bolt part number T67B-08-537 this introduces a bolt 15 mm long, measured from under head, and invokes Mod M808 "Introduction of Shortened Pivot Bolt to Rudder Pedal Slider Assembly Mounting". Also refer to SB130 Inspection of Rudder Pedals for Adjustment Restriction".
 - Note 1: Use NDT methods, (dye penetrant) for detecting structural defects e.g. cracks, ensure paint is removed from the suspect area before carrying out test. If defective found replace item or return to SACL for rework. If no defects are found, remove all NDT materials and re-apply finish.
 - Note 2: Note rudder stop plates, positions indicated on Figure 3, are permitted with deformation assuming full rudder movement and clearances have been achieved and there is no cracking in the welds supporting the stop plates, if in doubt return rudder bar to SACL for rework.
- Prior to checking rudder movements, remove and inspect that the rudder bar stop bolts are 39 ^{±3} mm long under their heads and that the stop mountings in the floor panels pedestal are structurally sound. If stop is not 40mm then fit longer item T67B-45-613, Post Mod M458. Check threaded portion of stop for straightness, change if bent. If, it is noted that the stops are screwed fully in, then check rudder cable length, reference paragraph 19. Check play in links, i.e. for elongated holes. If holes are elongated replace links with new item/s. Replace rudder cable when turnbuckles are at the end of their adjustment.
- 16. Check the rudder pedal movement ensuring that the rudder set-up procedure as detailed below is adhered to otherwise as per relevant aircrafts Maintenance Manual. Ensure that the SACL rudder movement board T67B-88-027 is used.



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- 16.1 Jack up the front of the aircraft until the nose wheel is just clear of the ground.
- 16.2 Remove the cowling and disconnect the steering rod from the nose wheel.
- 16.3 Set the rudder pedals fully forward for maximum leg length and screw in the rudder pedal stops to allow complete clearance with full rudder movement exerted.
 - Note: Rudder pedals at positions 2 and 4 can be set passed the fully forward adjustment position, ensure for set up that they are in the last indent.
- 16.4 Remove the turnbuckle barrels from both rudder cable turnbuckles.
- 16.5 Re-assemble the turnbuckle barrels ensuring equal engagement onto each thread. Screw up until no thread is showing.
- 16.6 Secure a suitable straight edge across all four pedals, (all must touch), at 90° to the fuselage centreline.
- 16.7 Position the rudder movement board, refer paragraph 15 above, over the fin.
- 16.8 Check that the rudder is in neutral. If not, adjust the relevant turnbuckle by screwing threads further into the barrel.
- 16.9 Remove the straight edge securing the rudder pedals.
- 16.10 Check that the maximum movement is obtainable either side of neutral. If necessary adjust at the turnbuckles to give sufficient movement of the rudder to allow limits to be set. Take care to maintain the rudder neutral position.
- 16.11 Set the rudder movement, within limits, by adjustment of the rudder pedal stops. Lock the stops when satisfied with setting. The stop bolts must not be screwed out more than 25.4mm (1 inch), measured from the structure to under the head of the stop.
- 16.12 Check rudder movements to full extent using foot loads. Verify all mechanical clearance, with the pedals at all adjustment positions, with and without brakes applied. When satisfied wirelock the turnbuckles with double figure of eight wire configuration between the clevis and the diametric hole on turnbuckle barrel.
- 16.13 Reconnect the steering arm with the rudder neutral and nose wheel centred; adjust the steering link fork end as required.
- 16.14 Check that the nose wheel stops do not engage before full rudder movement is achieved.
- 17. Ensure Trim Panel Modification M992 "Introduction of Fasteners to Front of Frame 2 to 3 Trim Panel for Added Security" has been incorporated. UK CAA AD 005-02-2003 refers.
- 18. Upon completion of rudder movement set-up ref. Paragraph 16 above. Ensure minimum clearances of trim panel to pedal side plates and rudder cable to pedal side plates are met Figure 3 refers. If necessary to obtain the required clearances, Mod M232 "Introduction of Rudder Pedal Packing for Increased Clearance of Surrounding Components" may be required to be invoked. Refer paragraph 13 for packing washers on rudder bar.
- 19. Ensure fuel pipe to rudder pedal slider clearance is met; refer relevant aircrafts Maintenance Manual Paragraph, 5.6.5.1, where relevant the minimum acceptable clearance is now to be 5mm. If clearance cannot be achieved then; i) remove Rudder Cable and check length, length should be 4862 * 2 mm, Figure 6 refers; ii) additionally check condition of rudder pedal assembly, refer paragraph 2, iii) if, i) and ii) do not achieve clearance remove fuel pipe, IAW relevant aircrafts Maintenance Manual, and re-orientate fuel pipe. If satisfactory clearance cannot be achieved inform SACL.



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- 20. Ensure head orientation of rudder cable link bolt head is outboard, Figure 3 refers, this is a Low Pan Head bolt T67M-45-570 on Post Mod M471 "Introduction of Pan Headed Bolt on Rudder Cable Turnbuckles", aircraft.
- 21. Ensure Pedal no 2 Pedal pad pivot bolt head height is less than 5mm and orientated as shown in Figure 4. A minimum of 1mm clearance is required, if not fit part no 126-21-210 or T67B-08-981, this invokes Mod M671 "Introduction of Low Head Rudder Pedal Pad Pivot Bolts Pedal No. 2". If clearance is not still achieved check distance of steering arm from bar end, Figure 3 specifies. If the distance is incorrect, then return rudder bar to SACL for re-worked/new item. Alternatively if clearance of 1mm is still not achievable remove up to a maximum of 1.5mm from the steering arm screw this invokes Modification action M1029, Figure 4 refers, and paint modified screw head red.
- 22. Ensure the requirements of, SB 99 "Inspection and Rectification of Rudder Pedal Sliders", has been met. If all of the actions as quoted in SB99 have not been previously incorporated then monitor, at every 150 hours, for loose rivets until SB99 requirements are incorporated in their entirety.
- 23. Ensure that all the nylon liners in the rudder pedal carriages are fitted, (4 pieces per carriage in Pre-Mod M450* aircraft, 1 piece liner in Post Mod M450) and are in a good condition and not worn, Figure 10 refers, replace liners if unsatisfactory. Return carriages to SACL for replacement of liner.
 - *Mod M450 "Introduction of Improved rudder pedal sliders, adjusting mechanism and pedal incorrect assembly feature".
- 24. Ensure Mandatory Mod M576 has been invoked; CAA AD 013-05-94 refers. Pedal side plate should be as Figure 8.
- 25. Check structural integrity of pedal pad assembly especially around adjuster pushrod hole pedal plate, Figure 8 View on Arrow 'B' refers, if plate is cracked or damaged the pedal pad is to be repaired. Ensure riveting is secure, if rivets are loose then they have to be rectified. Contact SACL for new pedal pad assembly, materials and any applicable repair scheme.
- 26. Ensure that the brake operating crank, as shown at Figure 10, has a minimum clearance of 4mm relative to the rudder pedal bar following all checks and rectifications. Allow for various brake conditions, refer paragraph 29.2. Should bar show signs of chaffing check depth of groove. If depth is 0.0mm to 0.5mm, remove rudder bar, blend out groove, repaint and refit. If the groove is to a depth greater than 0.5mm, remove rudder bar and return to SACL for repair or replacement.
- 27. Ensure rudder pedal carriage socket head caps screws are wire locked and bonded in with adhesive 126-51-024, use minimum amount, Mod M162 "Wire Locking of Rudder Pedals Upper Pivots", refers. See Figure 3.
- 28. Ensure on aircraft fitted with the Fairey Hydraulic undercarriage, (Post Mod M468 or Mod M791), that there is a minimum clearance of 2.5mm with steering linkage to engine mounting frame, see Figure 5. Ensure there is no damage to engine mounting frame if clearance is less than 2.5mm. If engine mounting frame is damaged then aircraft must not be flown until damage is rectified, consult SACL. Also if clearance is less than 2.5mm embody Mod M575 "Introduction of Offset Steering Arm Pin Ref Fairey Hydraulics Nose U/C". if Mod M575 is fitted and clearance is less than 2.5mm inform SACL.
- 29. Ensure on the Annual inspection or during any maintenance in the area of the rudder pedal mechanism e.g. trim panels removed or upon removal of any of the rudder pedal operating mechanism, that the clearances in the areas noted in paragraph 2 to 28 above are met.
 - 29.1 It must be noted that during the clearance checks that the pedals do not necessarily have a direct fore and aft load applied, there will be side loads on the pedal pads deflecting the pedal pad laterally or pivoting the pedal about its slider. Also note rudder pedals at positions 2 and 4 can be set passed the fully forward adjustment position, ensure for clearance checks that they are in this position. Load is defined as adequate load to fully operate rudder pedals and brakes, with adequate side load to take up any free play that might be in the system.



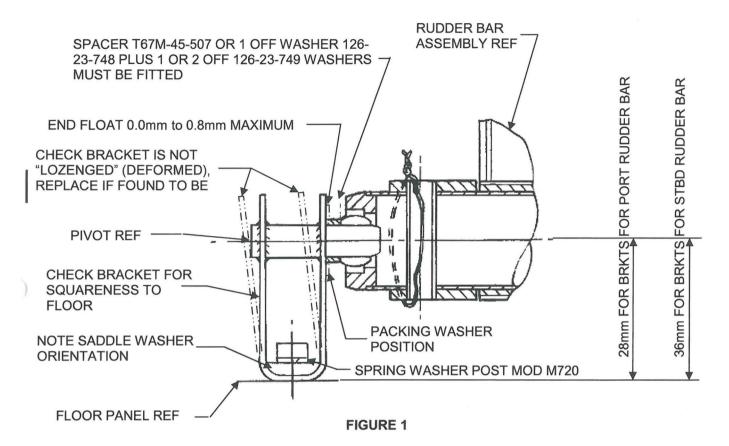
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- 29.2 Ensure that the rudder pedal operating mechanism is checked for full and free movement in all aspects of normal operation and abnormal operation, e.g. application of toe brakes during extreme pedal deflections during spin recovery. Note the operation of the brakes when 'hard' will have clearances which are greater than when the brakes are 'soft', (spongy), therefore ensure safe operation and clearances throughout these limits.
- 29.3 Ensure any wire locking employed, e.g. on cable turn buckles, will not foul or snag either adjacent parts or pilots clothing.
- 29.4 Ensure fastenings have the correct torque applied IAW with the relevant aircrafts Maintenance Manuals as applicable, also reference can be made to Service Bulletin 141 Recommended Stiffnut Maintenance Procedures and Clarification of Existing Maintenance Manual Screw/Bolt Torque Values.
- 29.5 Always check the structural integrity of the rudder operating mechanism, inform SACL of any abnormality, e.g. weld cracking, excessive corrosion, etc., or if clearances cannot be met. Send components to SACL for replacement or repair, there may be a charge for this service.
- 29.6 Ensure all clearance checks are undertaken at all rudder pedal adjustment positions.
- 29.7 Ensure that instrument panel forward console sideplate ty-rap is replaced; IPC Chap 30, Figure 2 refers. Console width to be no greater than 132mm after ty-rap applied.
- 29.8 On the completion of this Service Bulletin's inspection and rectification procedure, ensure that each rudder pedal mechanism clearance is still as stated and has not been affected by any subsequent adjustment/s or rectification/s.
- 29.9 Ensure all cabling and ducting is secure and will be clear from the rudder pedal mechanism in all its positions, consider movement of cables, etc., e.g. when the aircraft pulls 'g', flies inverted etc. Should any unsupported cable/ducting be identified then ensure it is secured in such a manner as to clear the rudder pedal mechanism and still be able to function
- 29.10 Clearances, quoted in this Service Bulletin over-ride any clearances, quoted in the relevant aircraft Maintenance Manual.
- 30. If correct rudder movement and rudder operating mechanism clearances are met, annotate Logbook with "SB 188 incorporated", at each inspection.
- 31. At each subsequent Annual inspect IAW this Service Bulletin in its entirety until such time that the relevant aircrafts Maintenance Manual and Schedule are amended. Additionally, Maintenance Organisations are to ensure that the inspections contained in this Service Bulletin are added to their specific Maintenance Schedules where applicable.

For further information, existing repair schemes or Mod/Service Bulletins please contact SACL Customer Support. Please note these services may be subject to a charge, unless an individual or company has a Support Agreement or Subscription Service in place. For parts and non-existing repairs a charge may be made.



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RUDDER BAR END FLOAT AND ITS SUPPORT BRACKET

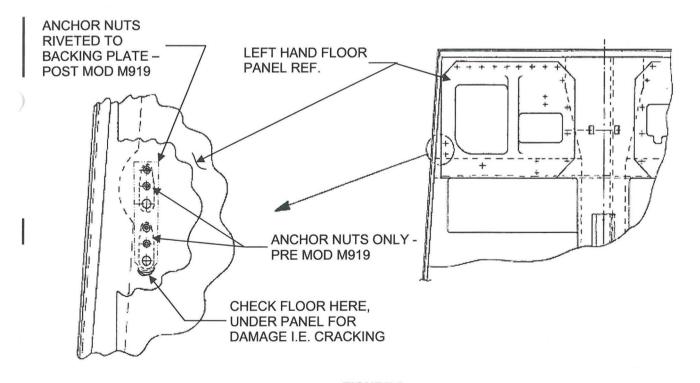
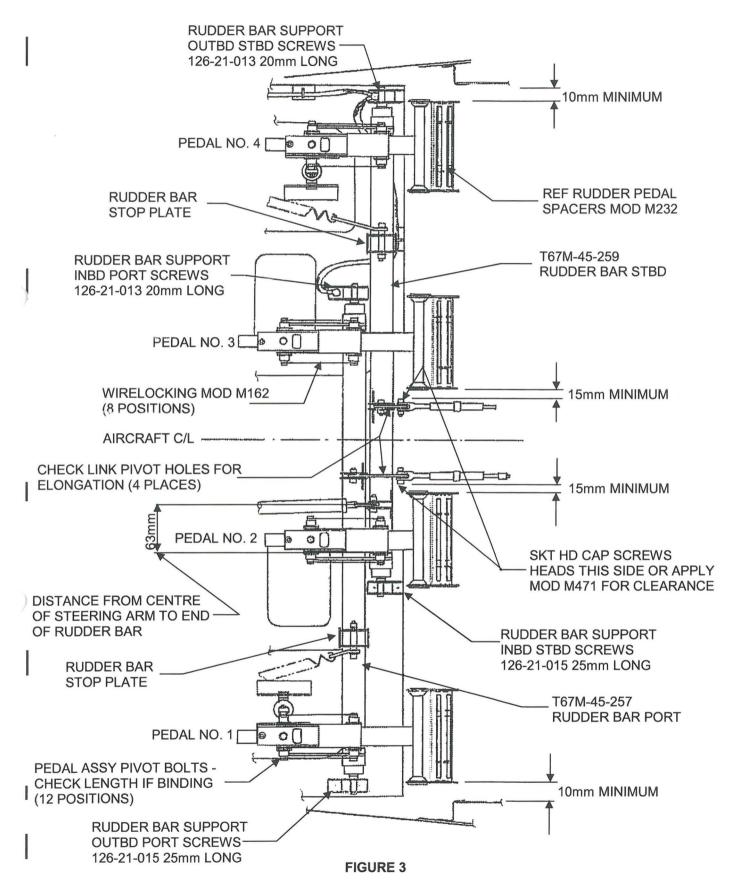


FIGURE 2

AREA OF FLOOR REQUIRING INSPECTION



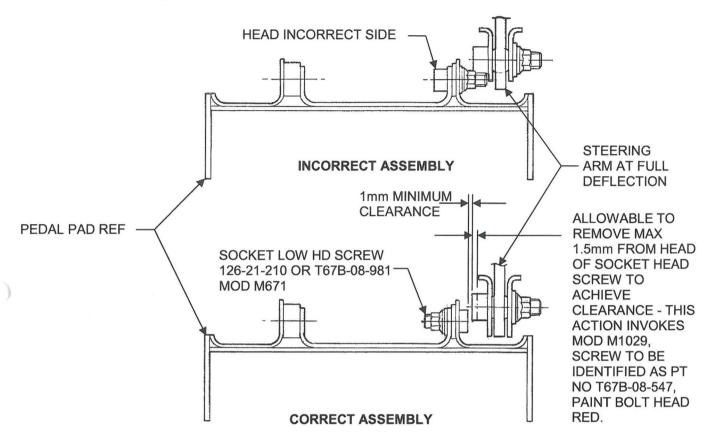
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RUDDER PEDAL CLEARANCES TO SIDE PANEL AND RUDDER CABLES

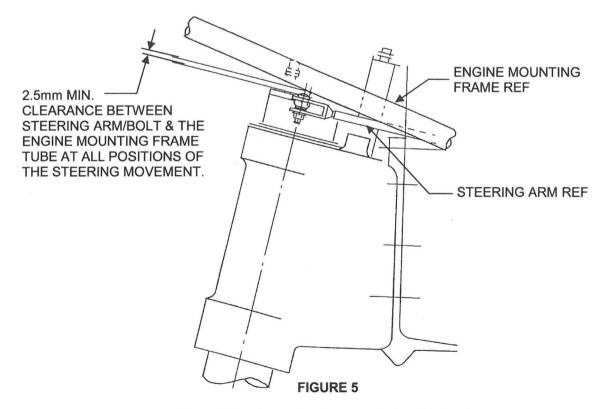


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PEDAL NO. 2 TO STEERING ARM INTERFACE

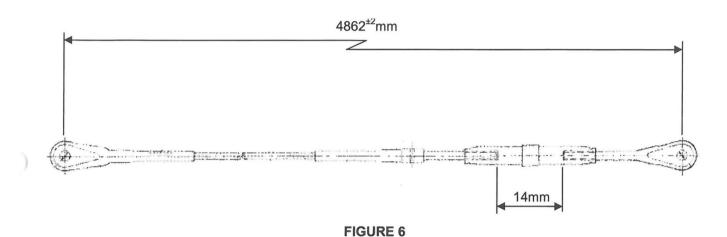
FIGURE 4



STEERING ARM ENGINE MOUNTING FRAME CLEARANCE



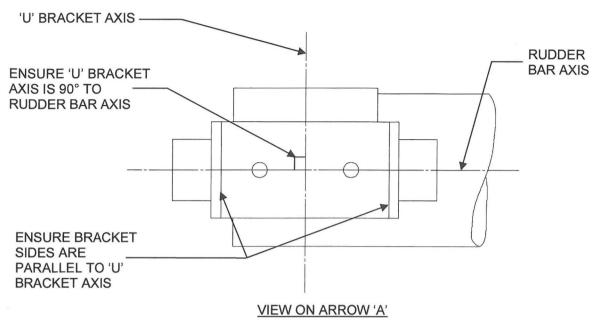
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RUDDER CABLE T67B-45-219
(ORIGINAL MANUFACTURED DIMENSIONS QUOTED)



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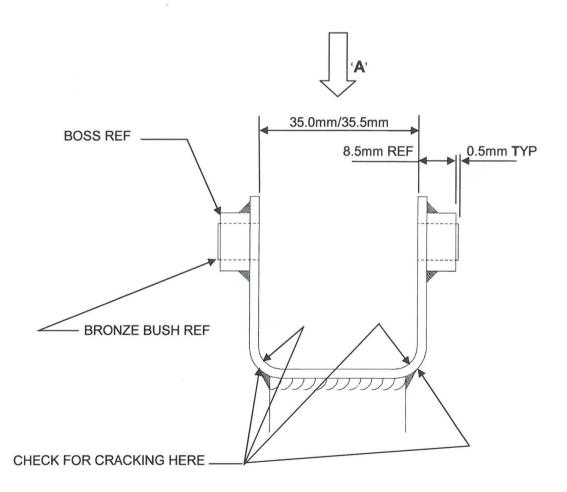


FIGURE 7
'U' BRACKET ON RUDDER BARS
(4 POSITIONS)



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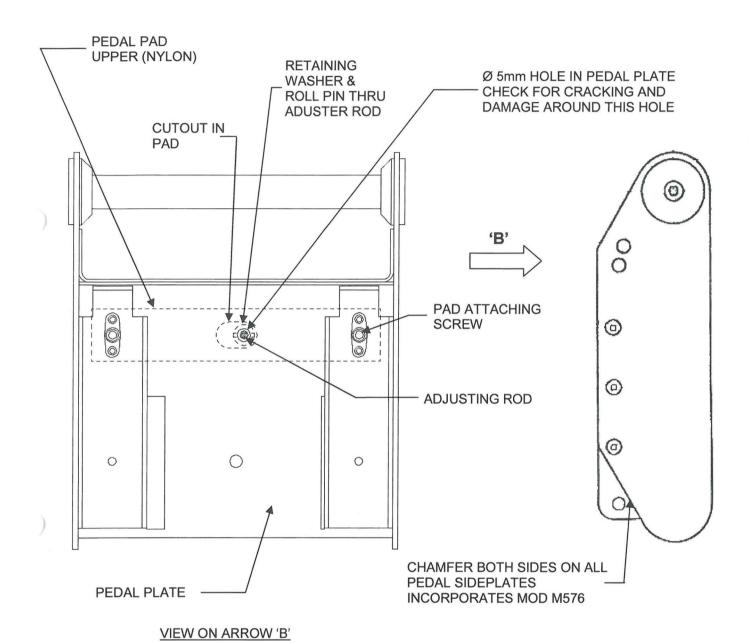


FIGURE 8

MOD M576 PEDAL SIDEPLATES WITH CHAMFER

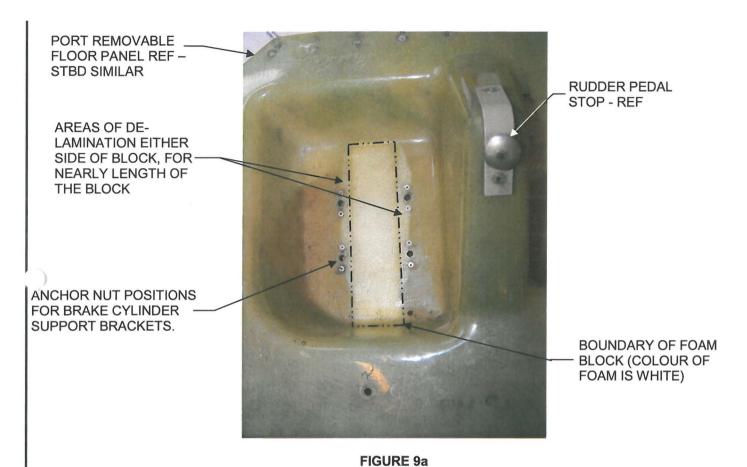


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RUDDER PEDAL CARRIAGE/SLIDER MECHANISM REAR PIVOT POSITION, (2 PLACES) CHECK BRAKE MASTER CYLINDER PIN ON CARRIAGE FOR DISTORTION CRACKING, ETC. REFER FIGURE 9a 30mm REF **ENSURE NO GAP EXISTS** AT THE BRAKE MASTER CYLINDER PIVOTS **ENSURE SUPPORT BRACKETS ARE SQUARE** TO THEIR BASE & THERE IS NO DAMAGE TO THEM IF 30MM DIMENSION IS NOT ATTAINABLE AND BRACKETS ARE SQUARE -CHECK BRACKETS ARE SQUARE TO FLOOR IF NOT THEN INFORM SACL. **ENSURE NO DAMAGE IN** FLOOR PANEL ABOUT THE BRACKET MOUNTING FASTENERS FOAM BLOCK COVERING CLOTH-**REFER FIGURE 9b** FOAM BLOCK FIGURE 9 **BRAKE MASTER CYLINDER SUPPORT BRACKETS**



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PHOTOGRAPH ON ARROW C VIEW INTO TOPSIDE OF REMOVABLE PANEL SHOWING EXTENT OF DE-LAMINATION

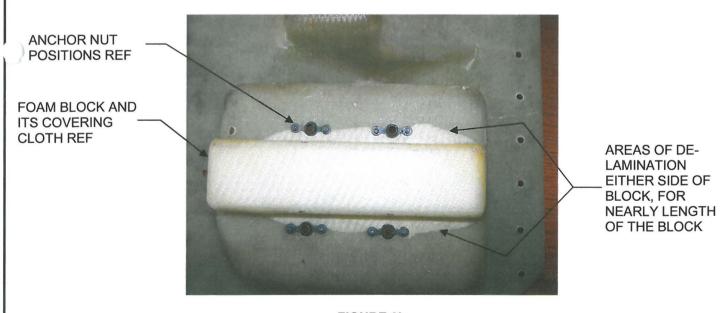
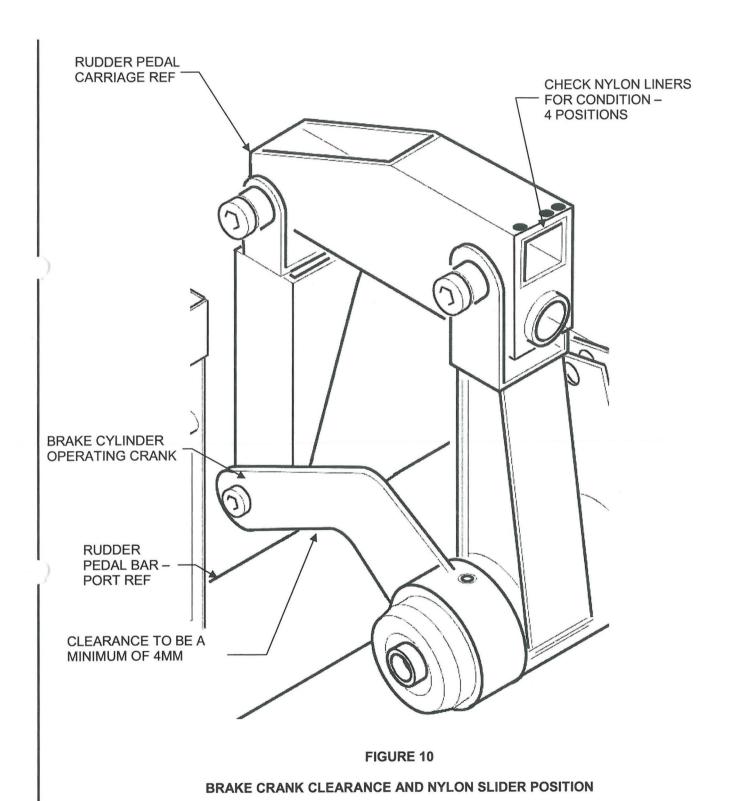


FIGURE 9b

PHOTOGRAPH ON ARROW D
VIEW ON UNDERSIDE OF REMOVABLE PANEL SHOWING EXTENT OF DE-LAMINATION



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