

MARSHALL AEROSPACE AND DEFENCE GROUP

THE AIRPORT, CAMBRIDGE, ENGLAND



SERVICE BULLETIN

MARSHALL AEROSPACE AND DEFENCE GROUP SERVICE BULLETIN SBM 198

MARSHALL AEROSPACE AND DEFENCE GROUP INSPECTION OF POST MOD M501 T67M260 FIREFLY
RUDDER PEDAL CABLES FOR FOULING AND AIR CONDITIONING HOSES FOR DAMAGE

© 2013 Marshall Aerospace and Defence Group

THE INFORMATION CONTAINED IN THIS DOCUMENT CONTAINS PROPRIETARY DATA WHICH IS THE PROPERTY OF MARSHALL AEROSPACE AND DEFENCE GROUP AND IS DISCLOSED IN CONFIDENCE. THE DATA OR DOCUMENT SHALL NOT BE USED, DISCLOSED TO OTHERS OR REPRODUCED WITHOUT EXPRESS WRITTEN PERMISSION OF MARSHALL AEROSPACE AND DEFENCE GROUP. IF CONSENT IS GIVEN, THIS PROPRIETARY DATA NOTIFICATION SHALL APPEAR IN ANY REPRODUCTION, WHETHER IN WHOLE OR IN PART.

Issued By
Marshall Aerospace and Defence Group
The Airport, Cambridge, CB5 8RX

LETTER OF TRANSMITTAL

Dated September 2013

This page transmits Initial Issue of Service Bulletin SBM 198

RECORD OF REVISIONS

Revision No.	Date	Reason for Change
0		Initial Issue



SERVICE BULLETIN

INSPECTION OF POST MOD M501 T67M260 FIREFLY RUDDER PEDAL CABLES FOR FOULING AND AIR CONDITIONING HOSES FOR DAMAGE

1. PLANNING INFORMATION

A. EFFECTIVITY

Slingsby T67M260 Firefly Post Mod M501

B. CONCURRENT REQUIREMENTS

None

C. REASON

An investigation was carried out into the clearances between the rudder controls and adjacent structure and systems to assess if the clearances are adequate to prevent any fouling causing chaffing or increased wear to any components. It was found that on aircraft with air conditioning fitted (Post Mod M501) there was a possibility of fouls occurring. The investigation recommended that customers were to be informed so that inspections and any rectification work required could be performed.

D. DESCRIPTION

This Service Bulletin (SB) details the inspection of the rudder cables for fouls. The SB also details inspection of the air conditioning hoses for damage and repair or replacement as applicable.

E. COMPLIANCE

Inspect within the next 5 flights from the receipt date of this Service Bulletin.

F. APPROVAL

Marshall Aerospace and Defence Group EASA Design Organization Approval No EASA.21J.181.

G. MANPOWER

One person – approximate man-hours as follows:

Preparation	1
Inspection / Rectification	1 (more time would be required if hoses need replacing)
Testing	1
Re-assembly	0.5
Records	0.25
Total	3.75

H. WEIGHT AND BALANCE

No change.

**MARSHALL AEROSPACE AND DEFENCE GROUP
SERVICE BULLETIN**

I. ELECTRICAL LOAD DATA

No change.

J. SOFTWARE SUMMARY

Not Applicable.

K. REFERENCES

Marshall Aerospace and Defence Group Advanced Composites
Firefly T67M260 Maintenance Manual.

Keith Products Service Manual TR-134
(Slingsby Technical Report T67G-900-015)

L. OTHER PUBLICATIONS AFFECTED

Not Applicable.

M. INTERCHANGEABILITY/INTERMIXABILITY OF PARTS

Not Applicable.

2. MATERIAL INFORMATION

A. MATERIAL - PRICE AND AVAILABILITY

Not Available.

B. INDUSTRY SUPPORT INFORMATION

Not Applicable.

C. MATERIAL NECESSARY FOR EACH AIRCRAFT

Not Applicable.

D. MATERIAL NECESSARY FOR EACH SPARE

Not Applicable.

E. REIDENTIFIED PARTS

Not Applicable.

F. TOOLING - PRICE AND AVAILABILITY

Not Applicable.

**MARSHALL AEROSPACE AND DEFENCE GROUP
SERVICE BULLETIN**

3. ACCOMPLISHMENT INSTRUCTIONS

A. MAINTENANCE PRACTICES

WARNING: OBEY ALL WARNINGS, CAUTIONS AND MAINTENANCE PRACTICES. IF YOU DO NOT OBEY THIS WARNING THERE IS A RISK OF INJURY TO PERSONNEL AND/OR DAMAGE TO THE EQUIPMENT.

- (1) Observe all safety procedures.
- (2) All engineering and local procedures are to be observed whilst embodying this Service Bulletin.
- (3) After inspection ensure aircraft is clean and clear of tools and miscellaneous equipment and any removed parts are replaced.

B. PREPARATION

Prior to proceeding, ensure that the Service Bulletin has been read in its entirety and is understood.

- (1) Position a trestle under the bump stop to support the rear fuselage.
- (2) Remove the Frame 5 access panel to gain access to the rear fuselage.
- (3) Position crawl boards in the aft fuselage.

NOTE: The crawl boards can be purchased from Marshall Aerospace and Defence Group Advanced Composites Product Support Department.

C. INSPECTION

- (1) Inspect the areas of potential rudder cable fouling and air conditioning hose wear, refer to Figure 1.
- (2) If the air conditioner drier clip is positioned as shown in Figure 2 there is a risk of the Starboard rudder cable fouling on the top of the clip fastener. If the clip is in the position shown (inset detail Figure 2) the clip must be repositioned (turned through 90°) so that there is no possibility of the rudder cable fouling on the clip fastener.
- (3) Check condition of the hoses (refer to Figure 3 and Figure 4) if any wear is found on the hose it must be repaired or replaced.

NOTES:

- (1) Any hose that does not have sufficient clearance (6mm – 12mm) in the positions shown in Figs 3 and 4 must be repositioned to ensure it is clear of structure or moving parts which could cause wear to the hose. Any hose/component that is repositioned must be held in place with approved aerospace parts as required. If in doubt seek guidance advice from Marshall Aerospace and Defence Group Advanced Composites Product Support Department.

**MARSHALL AEROSPACE AND DEFENCE GROUP
SERVICE BULLETIN**

(2) Should it be necessary to replace any hoses refer to the Keith Products System Service Manual TR-134 for removal and installation procedures and subsequent leakage checks.

(4) Following any maintenance in the rudder cable area, check and ensure that rudder cables, under tension and when slack, are clear from - electrical cables, hoses, structure etc. If there is insufficient clearance any offending items must be repositioned to ensure that they are out of the way of the rudder cables.

D. MODIFICATION

Not applicable.

E. TESTING

Complete independent checks as per standard regulations.

F. COMPLETION

(1) Remove any FOD and the crawling boards from the rear fuselage. Replace Frame 5 access panel and remove trestle support from tail skid.

(2) Annotate airframe logbook or aircraft record with - SBM 198 carried out (in accordance with local requirements).

For any replaceable parts or materials contact Marshall Aerospace and Defence Group Advanced Composites Product Support Department contact details as below:

Gemma Hodgson
Marshall Aerospace and Defence Group Advanced Composites
Ings Lane
Kirkbymoorside
North Yorkshire
England
YO62 6EZ

Tel. no. +44 (0) 1751 432474

Email: gemma.hodgson@marshall-slingsby.com

**MARSHALL AEROSPACE AND DEFENCE GROUP
SERVICE BULLETIN**

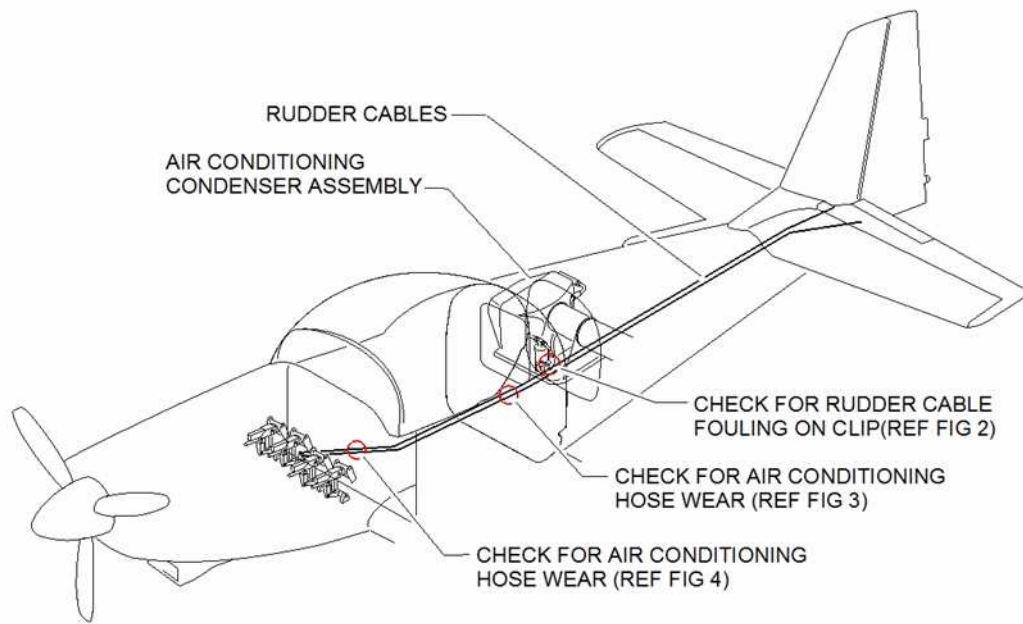


Figure 1 Areas of inspection

MARSHALL AEROSPACE AND DEFENCE GROUP
SERVICE BULLETIN

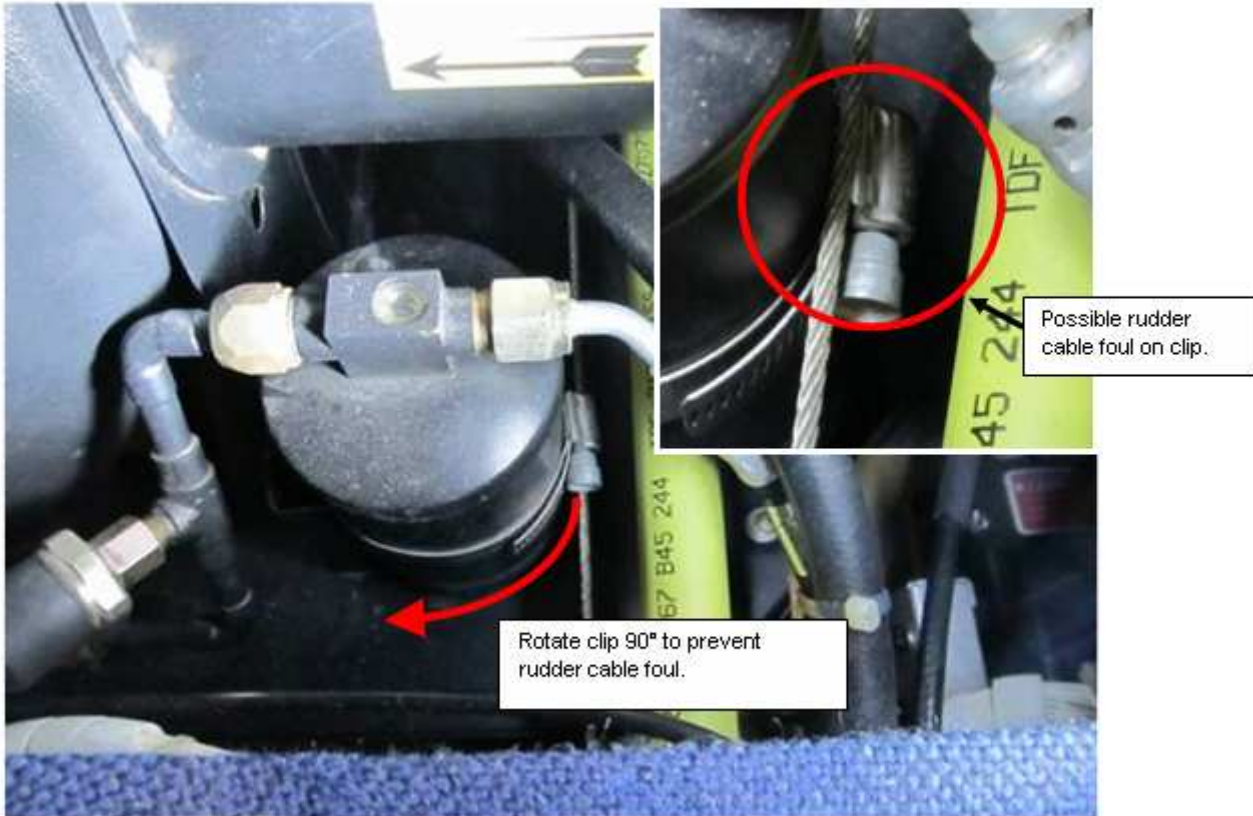


Figure 2 Plan view of air conditioning installation aft of Frame 5



Figure 3 View looking down and forward from behind Frame 5

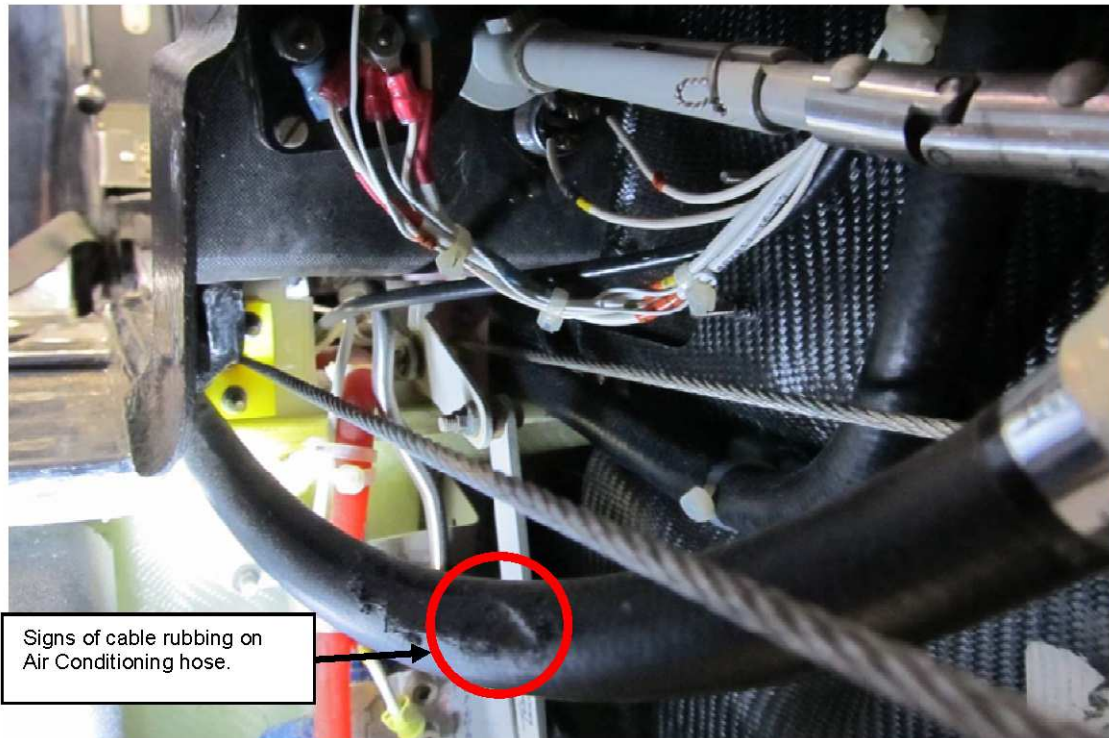


Figure 4 View looking aft from behind instrument panel

**MARSHALL AEROSPACE AND DEFENCE GROUP
SERVICE BULLETIN**

SB 198 ANNEX A

INSPECTION OF POST MOD M501 T67M260 FIREFLY RUDDER PEDAL CABLES FOR FOULING AND
AIR CONDITIONING HOSES FOR DAMAGE

This form is to be completed and submitted to the address below.

Mr M Rutter
Airworthiness co-ordinator
Marshall Slingsby Advanced Composites
Ings Lane
Kirkbymoorside
York YO62 6EZ
UK

Aircraft works number	
SB 198 carried out	
Total Flight Hours	
Details of action required	
Reporters contact details i.e. Name, Address, e-mail, telephone etc	
Owner's details	