 Aviation DOA No.: EASA.21J.025	Work Instruction	Document No.: WI-SB-AT01-12
	Title	Rev. Index: A.01
	TCDS-No.: 1106 Project-No.: SA-AT01-012	Page: 1 of 4

0 Table of Contents

0	Table of Contents	1
1	General Information	2
2	Data and Required Utilities	2
2.1	Required/Applicable Documents	2
2.2	Tools	2
2.3	Equipment and Devices	2
2.4	Measurement Equipment	2
2.5	Material	2
3	Implementation and Certification of the Retrofit/Installation	2
4	Accomplishment of the Retrofit/Installation	2
4.1	Prearrangements	2
4.2	Work Instructions	2
4.3	Final Inspection and Functional Testing	2

Approved Type Design Document

This document may only be revised in accordance with the procedure defined in Chapter 6 of the Aquila Design Organisation Handbook.

The Approval is granted for the following applications:


Type	Model	Date	Office of Airworthiness
AT01	---	12.01.2009	<i>P. Ellwanger</i>



The technical content of this document is approved under the authority of DOA-No. EASA.21J.025.

12.01.09
Date, Signature Office of Airworthiness

Prepared/amended: <i>Döring</i> Döring	Verified: <i>M. Just</i> Just	Approved: <i>P. Ellwanger</i> Ellwanger	Date of issue: 12.01.2009	Supersedes issue: --- (First Release)
--	-------------------------------------	---	------------------------------	--

 Aviation DOA No.: EASA.21J.025	Work Instruction	Document No.: WI-SB-AT01-012
	Modification Fuel Return Hose TCDS-No.: 1106 Project-No.:SA-AT01-012	Rev. Index: A.01 Page: 2 of 4

1 General Information

This Work Instruction describes the replacement of the fuel-return hose on AT01 model in relation with the Service Bulletin SB-AT01-012.

2 Data and Required Utilities

2.1 Required/Applicable Documents

The following documents are required for the retrofit/ installation of the SB-AT01-012:

Pos.	Document Number	Type of Document and Title
1	WI-SB-AT01-012	Work Instruction

2.2 Tools

The following tools are required for the retrofit/ installation:

Pos.	Description	Pos.	Description
1	ground cable		
2	phillips screwdriver		
3	fork-wrench metric size 10, 12, 17		
4	tie-wrap-cutter		

2.3 Equipment and Devices


The following equipment and devices are required for the retrofit/ installation:

Pos.	Equipment/Device No.	Description
		- none -

2.4 Measuring Equipment

Required measuring Equipment:

Pos.	Description
	- none -

 Aviation DOA No.: EASA.21J.025	Work Instruction Modification Fuel Return Hose TCDS-No.: 1106 Project-No.:SA-AT01-012	Document No.: WI-SB-AT01-012
		Rev. Index: A.01 Page: 3 of 4

2.5 Material

The following materials are required for the retrofit/ installation of the SB-AT01-012:

Pos.	Quantity	P/N	Description
1	1	AT01-8020-007B A.03	fuel return hose
2	2	AT01-7080-014	copper ring
3	2	AT01-4530-942	tie-wrap
4	1	AT01-1800985_M6	self locking nut M6

3 Implementation and Certification of the Retrofit/Installation

The repair has to be conducted by an approved Maintenance Organisation and has to be certified in accordance with EU-Regulation 2042/2003.

4 Accomplishment of the Retrofit/Installation

4.1 Prearrangements

- 1.) Aircraft grounding
- 2.) remove the upper cowling
- 3.) close fuel selector valve
- 4.) dump fuel at the front drainer

4.2 Work Instructions

No.	Work Step	Description	Signature Mech.	Sign. Inspect.
1	Removal	remove cable tie		
2	Removal	remove the screw from the hose clamp (Figure 1)		
3	Removal	screw off the fuel line fitting from the fire wall (Figure 2)		
4	Removal	unscrew banjo screw from the t-piece. (Figure 3)		
5	Install	Install the new fuel return line in reverse order. It is important to use new copper rings (AT01-7080-014) at the banjo screw. (Figure 3)		
6	Install	tightening torque for the banjo screw: 10Nm		



Figure 1

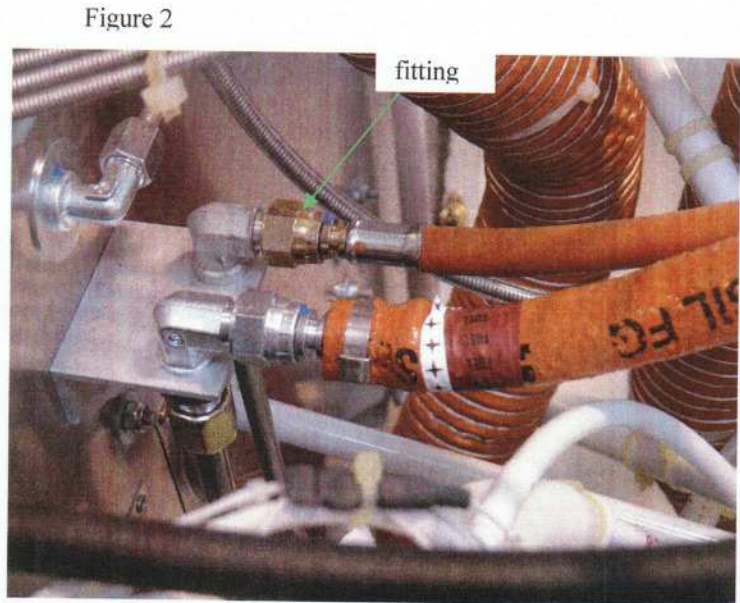


Figure 2



Figure 3

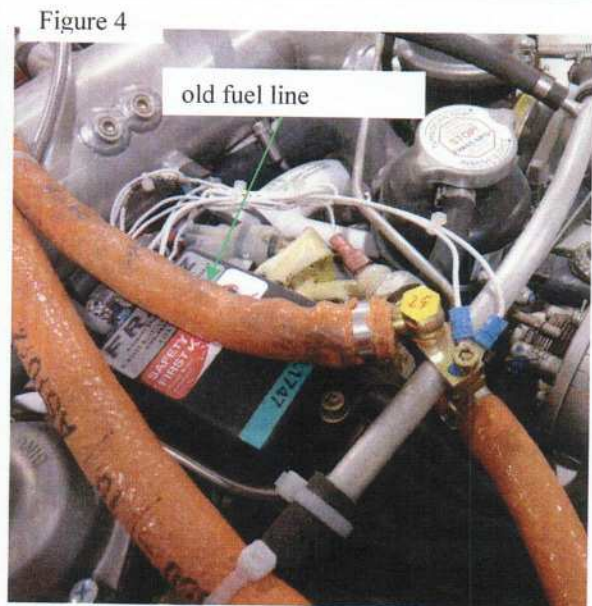


Figure 4

4.3 Final Inspection and Functional Testing

No.	Work Step	Description	Signature Mech.	Sign. Inspect.
1	leakage test	switch on the battery switch		
2	leakage test	switch on the fuel pump		
3	leakage test	visual inspection of leakage on the juncture of the fuel return line		
4	engine ground run	perform ground run. repeat leakage test		