



Subject: Modification of the main landing gear

Concerning: GROB G 115/ G 115A, all S/N's

Urgency: Optional

Procedure: During extreme operation conditions (for example bad grass runways, hard landings) after longer operation it could happen that the main landing gear attachment will be overloaded. Therefore a modification of the main landing gear attachment is offered to customers who operate the G 115 under extreme conditions.

Actions: Due to the extensive modifications and the required modification and installation equipment, this modification has to be carried out only by the manufacturer or in arrangement with him.

Material: The material is arranged by the manufacturer.

Weight and Balance: Negligible

Remarks: The correct modification and installation has to be certified by an authorized inspector in the log book.

Mattsies, 7 June 1991

LBA approved

The German original of this Service Bulletin has been approved by the LBA on the 13th of August 1991

The translation has been accomplished to our best knowledge and judgement. In case of doubt, the German original is authoritative.

FC 13/P

Dipl. Ing. J. Altmann
(Airworthiness engineer
Certification staff)

Note: If you have sold your aircraft in the meantime, we would ask you kindly, pass this information immediately to the new owner and forward his adress and aircraft s/n to us.



The Repair Instruction No. 1078-13 is part of the Service Bulletin TM 1078-13 and contains the modification of the right and left main landing gear.

Material: The required material is set up by the aircraft manufacturer.

Tools:

- standard set of tools
- installation rigs for bushings

R E M A R K:

Details of the procedure are not described explicit in this Repair Instruction, because the modification only is carried out at the aircraft manufacturer.

1. Jack up the airplane (refer to MM Chapter 07-20).

Note: The following working steps are described for the R/H main landing gear. The working steps for the L/H main landing gear are adequate.

2. Remove and dismount main landing gear (refer to MM Chapter 32-20, page 3).

3. Remove 4 bushings 115-1051.01 from landing gear rib.

4. Install insert roving ring 115-1003.95 and cover 115-1003.96 using installing pattern.
Fix cover with 6 screws M4x16 DIN 965 and rivet nuts.

5. Install 4 new bushings 115-1051.02 into landing gear rib (refer to page 3, item 10) .

6. Install modified landing gear leg at the landing gear attachment. Therefore use following new attaching parts:
refer to drawings pages 2 and 3

7. Install main landing gear (refer to MM Chapter 32-10).

Note: Torque all screws and nuts referring to the value charts in MM Chapter 20-00.

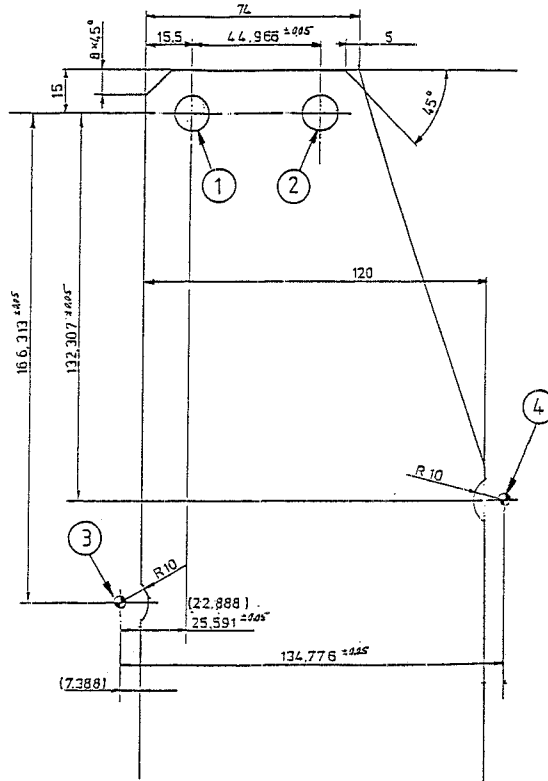
8. Adjust main landing gear (refer to MM Chapter 32-10).

9. The correct installation of this modification has to be certified in the log book by an authorized inspector.

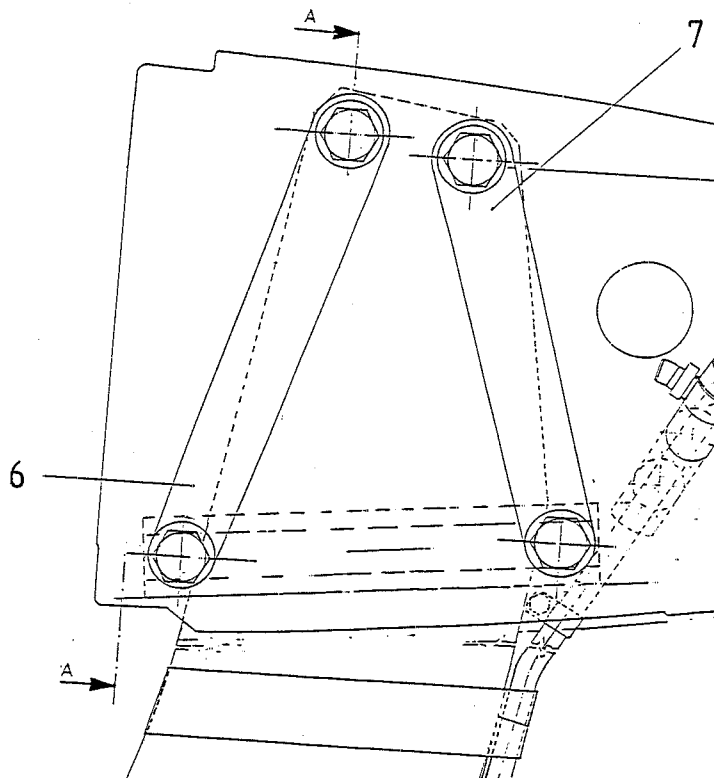
Drawing 1: Modified Landing Gear Leg

- Drilling opened to $\phi 12H7$
at Pos. 1 and 2

Pos 3 and 4

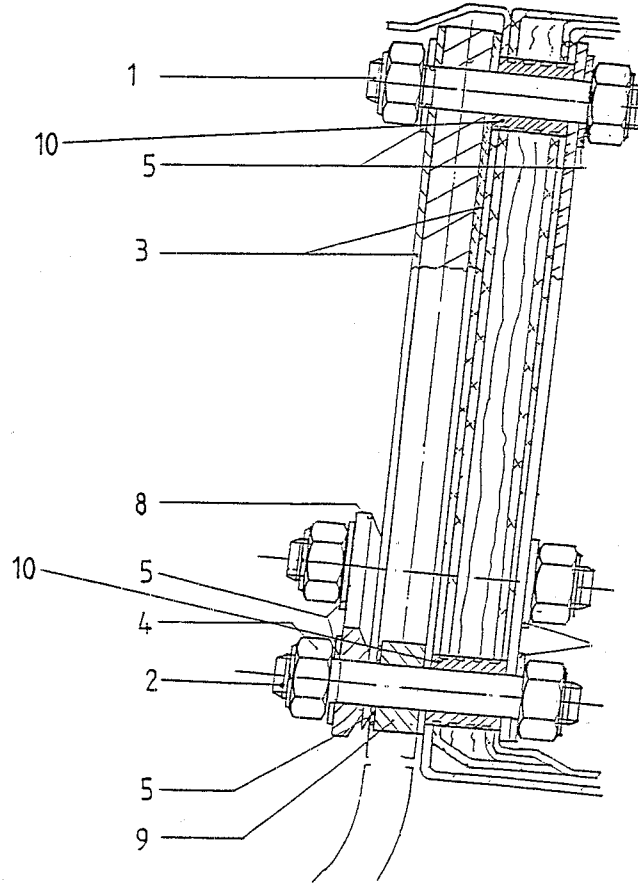


Drawing 2: Installation of the tension bars



Drawing 3 : Installation of the landing gear leg

VIEW A - A



Item	Naming	Drawing No.	Units per Assy
1	Bolt	115-5005.45	2
2	Bolt	115-5005.46	2
3	Plate	115-5005.13	2
4	Hexagon Head Nut	M12 LN 9348	8
5	Shim	12x18x1 DIN 988	8/or as required
6	Tension Bar	115-5005.15	1
7	Tension Bar	115-5005.14	1
8	Strap	115-5005.03	1
9	Bushing	115-5005.20	2
10	Bushing	115-1051.02	1

Anzahl	Benennung	Teilenummer
4	Pass-Scheiben	12x18x0,5
4	Pass-Scheiben	12x18x1,0
1	Federbein links	115-5001.01/1
1	Federbein rechts	115-5001.02/1
4	Bolzen	115-5005.45
4	Bolzen	115-5005.46
4	Blech	115-5005.13
16	Sechskantmutter	M12x1,5, LN 9348
16	Unterlegscheiben	LN 9025 - 12,2
2	Zuganker	115-5005.15
2	Zuganker	115-5005.14
2	Bügel	115-5005.03
4	Buchse	115-5005.20
8	Buchse	115-1051.02 sandgestrahlt
2	Verstärkungsring	115-1003.95
2	Deckel	115-1003.96
8	Schrauben	DIN965-M4x16 verzinkt
8	Annietmutter	LN29679-M4
16	Alu-Nieten	DIN 661 2,4x8 Nr. 6300030, Bliendniete
200g	Harz	L20
	Härter	VE 2896
150g	Araldit	
50g	Baumwollflocken	