

From: [Joseph.W.Gramzinski](#) [REDACTED]
To: [Read Leah](#)
Subject: FW: N1362G Statement
Date: Thursday, May 4, 2017 10:05:24 AM
Attachments: [N1362G Statement.pdf](#)

Leah,

This is what I received from Maintenance Facility, I also went there and the met with mechanic and the Insurance Adjuster also happen to be there as he did his inspection. The aircraft landing gear system did not appear to have any evidence of "component failure" but appeared the poor maintenance and possibly out of rig caused the L/H MLG to fail and collapse.

Kind regards,

Joseph W. Gramzinski
FAA-Aviation Safety Inspector/PMI
Orlando, FL (ASO- FSDO-15)
[REDACTED]

The true measure of a person is not how they celebrate their accomplishments, but how they deal with their disappointments and failures... Remember; we cannot control the wind, but we can adjust our sails
!!

04/17/2017

To Whom It May Concern,

Cessna 310R serial number 310R0717, registered N1362G was moved to Double M Aviation after experience the collapse of its left main landing gear. To accurately determine the cause of the landing gear failure, a gear retract test needs to be accomplished. However, when the collapse occurred fork bolt p/n 5141052-1 (item #50) was ripped out of torque tube p/n 5045010-25 (item #39) causing severe damage to the torque tube and making it impossible to complete a gear retract test.

Without that test I am unable to identify the cause with complete certainty, however, upon visual inspection of the gear a lack of proper maintenance (i.e. grease, rigging, etc.) is apparent. My opinion would be that the collapse was possibly due to the over centering tension on the down lock assembly (item #70) being out of rig.

Please do not hesitate to contact me at [REDACTED] or [REDACTED] if you have any questions.

Sincerely,

[REDACTED]

Michael M. Naab
A&P / IA

[REDACTED]
Lakeland, FL 33811

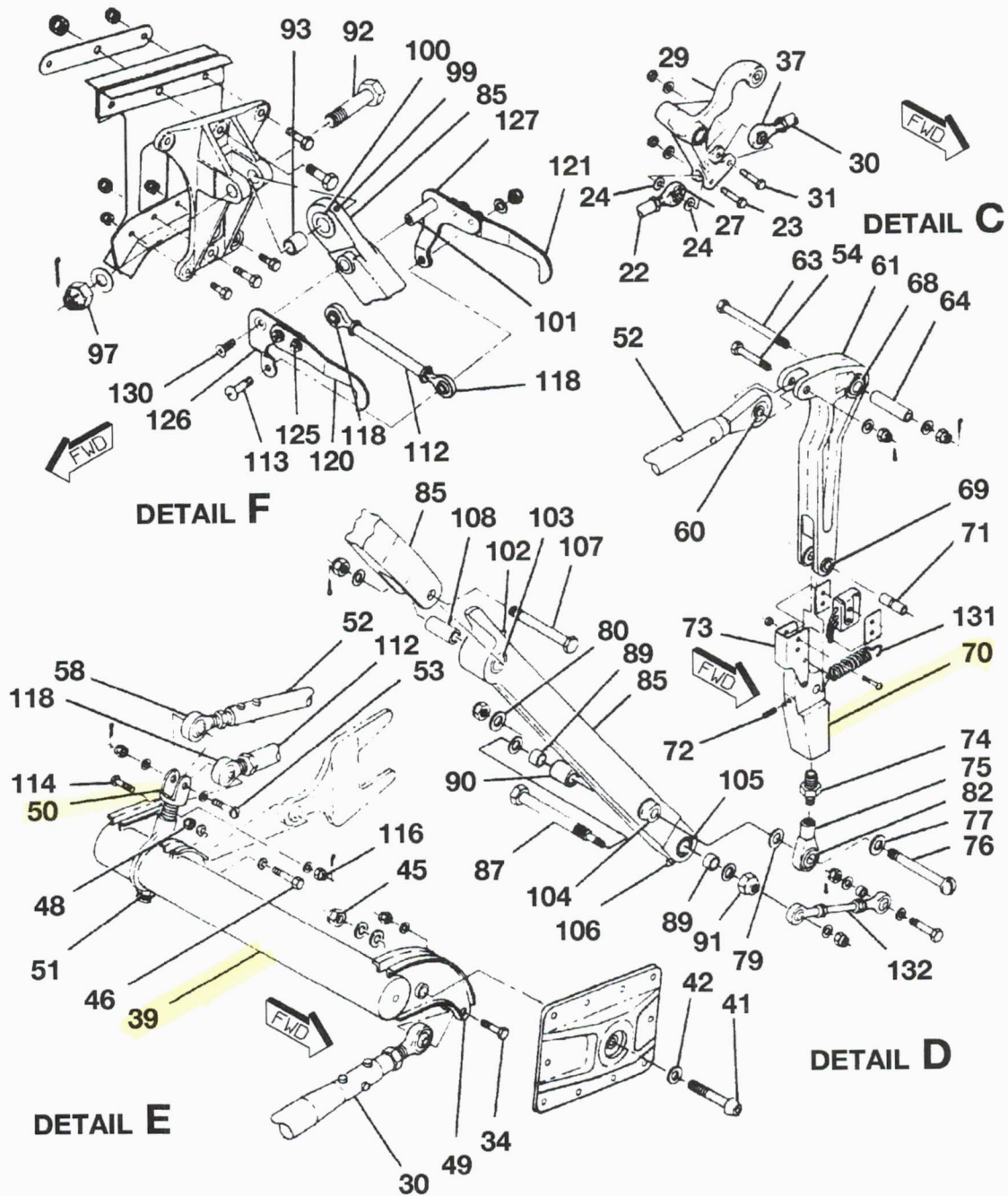


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CESSNA AIRCRAFT COMPANY
MODEL 310R
 ILLUSTRATED PARTS CATALOG

A56225

N1362G



C10413005
 D14413003
 E52412001
 F14411001

MAIN GEAR RETRACTION LINKAGE INSTALLATION
 FIGURE 01 (SHEET 2)

CESSNA AIRCRAFT COMPANY

MODEL 310R

ILLUSTRATED PARTS CATALOG

FIG ITEM	PART NUMBER	NOMENCLATURE	EFFECT FROM TO	UNITS PER ASSY
01		MAIN GEAR RETRACTION LINKAGE INSTALLATION		RF
- 1	0843415-1	TUBE ASSY-RH INTERMEDIATE PUSH-PULL FSO 0843415-3		NP
- 1A	0843415-3	TUBE ASSY-RH INTERMEDIATE PUSH-PULL		1
		ATTACHING PARTS		
2	NAS464P5A28	BOLT		1
3	S1450-5H12-032	WASHER		2
4	NAS72-5-005	SPACER		2
5	MS21042L5	NUT		1
		—*—		
6	MR5	BEARING-ROD END FSO SM5-8C		NP
- 6A	SM5-8C	BEARING-ROD END		2
- 7	AN316-8R	NUT-CHECK		2
8	5045003-4	BELLCRANK ASSY-IDLER		1
		ATTACHING PARTS		
9	NAS6604-40	BOLT		1
10	0843400-129	SPACER		1
11	NAS1149F0432P	WASHER		1
12	NAS43DD4-32FC	SPACER		1
13	AN970-4	WASHER		1
14	MS21042L4	NUT		1
		—*—		
15	S1004-14A	BEARING		2
16	S1004-51A	BEARING		2
17	0843406-1	TUBE ASSY-RH INBD PUSH-PULL FSO 0843406-3		NP
- 17A	0843406-3	TUBE ASSY-RH INBD PUSH-PULL		1
		ATTACHING PARTS		
18	NAS464P5A13	BOLT		1
- 19	NAS1149F0563P	WASHER		1
- 20	MS21042L5	NUT		1
		—*—		
21		ACTUATOR ARM-GEAR BOX-REFER TO 32-30-00 FIGURE 04		RF
22	0843414-3	TUBE ASSY-LH INBD PUSH-PULL FSO 0843414-5		NP
- 22A	0843414-5	TUBE ASSY-LH INBD PUSH-PULL		1
		ATTACHING PARTS		
23	NAS464P5A15	BOLT		2
24	NAS43HT5-8	SPACER-LH ONLY		2
- 25	NAS1149F0563P	WASHER		2
- 26	MS21042L5	NUT		2
		—*—		
27	S2049-5FG	ROD END	V73134	1
- 28	AN316-6R	NUT-CHECK		1 R
29		BELLCRANK-REFER TO 32-30-00 FIGURE 02		RF
30	5045213-3	TUBE ASSY-OUTBD PUSH-PULL		2
		ATTACHING PARTS		
31	NAS464P5A14	BOLT		1
- 32	NAS1149F0563P	WASHER		1
- 33	MS21044N5	NUT		1
34	NAS464P5A15	BOLT		1
- 35	NAS1149F0532P	WASHER		1
- 36	MS21044N5	NUT		1
		—*—		
37	MS21223-5GH	ROD END		2
- 38	AN316-7R	NUT-CHECK		2
39	5045010-25	TORQUE TUBE ASSY-LH FSO 5045010-33		NP R
- 39A	5045010-33	TORQUE TUBE ASSY-LH REFER TO NOTE 1		1 R
- 40	5045010-24	TORQUE TUBE ASSY-RH FSO 5045010-32		NP R
- 40A	5045010-32	TORQUE TUBE ASSY-RH REFER TO NOTE 1		1 R
		ATTACHING PARTS		
41	NAS146-40	BOLT		1
42	MS20002-6C	WASHER		1
- 43	NAS1149F0632P	WASHER		1
- 44	NAS1149F0663P	WASHER		AR
45	MS21044N6	NUT		1
46	NAS464P5LA10	BOLT		1
- 47	NAS1149F0563P	WASHER		2 R
48	MS21044N5	NUT		1
		—*—		

NOTE 1—AIRPLANES R0001 THRU R2140 INCORPORATING MEB09-2.

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CESSNA AIRCRAFT COMPANY

MODEL 310R

ILLUSTRATED PARTS CATALOG

FIG ITEM	PART NUMBER	NOMENCLATURE	EFFECT FROM TO	UNITS PER ASSY
		1 2 3 4 5 6 7		
01				
49	NAS77A5-007	BUSHING		2
50	5141052-1	FORK BOLT		1
51	AN316-10R	NUT-CHECK		1
52	0840125-15	TUBE ASSY-AFT PUSH-PULL		2
		ATTACHING PARTS		
53	AN25-16	BOLT-CLEVIS		1
54	NAS464P5-14	BOLT		1
- 55	NAS1149F0563P	WASHER		2
- 56	AN320-5	NUT		2
- 57	MS24665-134	COTTER PIN		2
		—*—		
58	REM5S2	ROD END-INBD	V99528	1
- 59	AN316-7R	NUT-CHECK		1
60	COM-5-9	BEARING-OUTBD	V73134	1
61	5041001-5	BELLCRANK ASSY-LH FSO 5041001-9	R0001 R1205 NP	
- 61A	5041001-9	BELLCRANK ASSY-LH FSO 5041001-11	R1206 R1208 NP	
- 61B	5041001-11	BELLCRANK ASSY-LH	R1209 R2140 1	
- 62	5041001-6	BELLCRANK ASSY-RH FSO 5041001-10	R0001 R1205 NP	
- 62A	5041001-10	BELLCRANK ASSY-RH FSO 5041001-12	R1206 R1208 NP	
- 62B	5041001-12	BELLCRANK ASSY-RH	R1209 R2140 1	
		ATTACHING PARTS		
63	NAS464P4-26	BOLT		1
64	S133-4P1.000	SPACER		1
- 65	NAS1149F0463P	WASHER		1
- 66	AN320-4	NUT		1
- 67	MS24665-132	COTTER PIN		1
		—*—		
68	NAS77-6-040	BUSHING		2
69	S1004-11B	BEARING	R0001 R1208 2	
- 69A	CM3763-1	BEARING	R1209 R2140 2	
70	0841110-2	LOCK ASSY-LWR SIDE BRACE FSO 0841110-3	R0001 R0823 NP	
- 70A	0841110-3	LOCK ASSY-LWR SIDE BRACE	R0824 R2140 2	
		ATTACHING PARTS		
71	5041018-1	PIN-DOWNLOCK		1
72	MS35265-46	SCREW-DOWNLOCK PIN RETAINER		1
		—*—		
73	0841235-3	BRACKET-SWITCH SUPPORT		1
74	0841113-2	ADJUSTING SCREW		2
		ATTACHING PARTS		
75	0841111-1	END FITTING ASSY	R0001 R0823 2	
- 75A	0841111-3	END FITTING ASSY	R0824 R2140 2	
		ATTACHING PARTS		
76	AN25-28A	BOLT		1
77	0841004-5	WASHER		1
- 78	AN122583	WASHER		2
79	NAS1149D0516K	WASHER		AR
80	NAS1149F0532P	WASHER		AR
- 81	MS21042L5	NUT		1
		—*—		
82	KWB5G	BEARING	V97613	2
- 83	WC5-2	BEARING-ALT FOR KWB5G	V56644	2
- 84		DELETED-NOT USED		
85	5141001-33	BRACE ASSY-LH REFER TO NOTE 1		1
- 86	5141001-34	BRACE ASSY-RH REFER TO NOTE 1		1
		ATTACHING PARTS		
87	5041011-1	BOLT		1
- 88	NAS1149F0732P	WASHER		2
89	5041004-1	SPACER-UPLOCK		2
90	5041003-2	SPACER		1
91	AN363-720	NUT		1
92	NAS464P7-29	BOLT		1
93	0841202-1	SPACER		1
- 94	NAS1149F1063P	WASHER-USED AS SHIM		AR
- 95	NAS1149F1032P	WASHER-USED AS SHIM		AR
- 96	NAS1149F0732P	WASHER		1
97	AN320-7	NUT		1
- 98	MS24665-285	COTTER PIN		1
		—*—		

NOTE 1—BOTH THE LH & RH BRACE ASSEMBLIES MUST BE ORDERED AS A MATCHED SET