

~~N9492T~~  
N286TG

FLIGHT DESIGN

# Aircraft Log Book

Aircraft model: CTLS

Serial No.: F-16-05-52

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N286TG AF logs vol. I

General Information



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Manufacturer: Flight Design GmbH

Model: CTLS

Serial No.: F-16-05-52

Registration No.:

Date of Manufacture: 20. Sep. 2016

Engine installed at delivery:

Manufacturer ROTAX

Model: 912 ULS

Serial No.: 6.783.172

Propeller installed at delivery:

Manufacturer Neuform

Model:

HUB Model: Neuform

HUB Serial No.: 1225

Blade Model: Neuform

Blades Serial No.: 199571970924

199571920924

199572090924

Date: 20. Sep. 2016

Signature



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F-16-05-52

## Installed Equipment List

Item No.	Date		Manufacturer / Model	Serial Number	Notes
	Installed	Removed			
1.	10, Sep. 16		Rescue System	22799	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
2.	10, Sep. 16		Rocket	6618	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
3.	10, Sep. 16		Fuel Pump	13, 11315	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
4.	10, Sep. 16		Gear Box	62544	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
5.	10, Sep. 16		Ignition switch	AT15U98354/000100	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
6.	10, Sep. 16		Regulator Rectifier Ducati Energia 362001	B014015	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
7.	10, Sep. 16		Starter Relay	B014016	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
8.	10, Sep. 16		Radio GTR-225	2A500 3168	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
9.	10, Sep. 16		Antenna AV-10	B014017	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
10.	10, Sep. 16		Intercom PM-3000	G09186-A	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
11.	10, Sep. 16		Headsets	B014018	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
12.	10, Sep. 16		Headsets	B014019	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
13.	10, Sep. 16		SV-ADSB-470	1987	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
14.	10, Sep. 16		SV-XPDR-261	04444	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required

Installed Equipment List

Item No.	Date		Manufacturer / Model	Serial Number	Notes
	Installed	Removed			
15.	10, Sep, 16		Antenna AV-74	B014021	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
16.	10, Sep, 16		Antenna AV-74	B014020	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
17.	10, Sep, 16		ELT KANNAD AF 406	LX1100263582	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
18.	10, Sep, 16		ELT Remote Control RC 200	TM0000082897	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
19.	10, Sep, 16		ELT Antenna ANT-200	B014022	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
20.	10, Sep, 16		ELT Mounting Bracket	LX1100258148	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
21.	10, Sep, 16		ELT Connector DIN 12	LX1100265741	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
22.	10, Sep, 16		GPS GARMIN Area 796	ZCY011149	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
23.	10, Sep, 16		GPS GARMIN Antenna	B014023	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
24.	10, Sep, 16		Dynon D-1000 (EMS)	8012	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
25.	10, Sep, 16		Dynon D-1000 (EFIS)	8011	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
26.	10, Sep, 16		SV-EMS-220	5443	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
27.	10, Sep, 16		SV-GPS-2020	2830	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
28.	10, Sep, 16		SV-BAT-320	5824	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required

## Installed Equipment List

F-16-05-52

Item No.	Date		Manufacturer / Model	Serial Number	Notes
	Installed	Removed			
29.	10 Sep. 16		SV-BAT-320	5826	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
30.	10. Sep. 16		SV-ADAHRS-200	7150	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
31.	10. Sep. 16		SV-ADAHRS-201	4706	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
32.	10. Sep. 16		Unheated Pitot Probe	A687810	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required with AOA
33.	10. Sep. 16		Unheated Pitot Probe	A687806	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required with AOA
34.	10. Sep. 16		Fuel Pressure Sensor	B014024	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
35.	10. Sep. 16		AMPS Shunt 0-60A	B014025	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
36.	10. Sep. 16		MAP Sensor	B014026	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
37.	10. Sep. 16		Inverter 10-700-14	B1630	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
38.	10. Sep. 16		Ribbon illuminating from beneath	B014027	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
39.	10. Sep. 16		Servo SV-42	6759	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
40.	10. Sep. 16		Servo SV-42T	50222	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
41.	10. Sep. 16		Magnetic Compass	AS-12243	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
42.	10. Sep. 16		Fuel Flow Transducer FT-60	159795	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required

Installed Equipment List

F-16-05-52

Item No.	Date		Manufacturer / Model	Serial Number	Notes
	Installed	Removed			
43.	10. Sep. 16		Hour meter Honeywell	B014028	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
44.	10. Sep. 16		Wiring Harness	B005377	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
45.	10. Sep. 16		Flap Control Unit FD-Wk-Controller V.1.1	A616443	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
46.	10. Sep. 16		Battery SUPER B.10P	0000024991	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
47.	10. Sep. 16		Battery Charger SUPER B	B014029	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
48.	10. Sep. 16		Wing light Whelen	00408	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required Left RED
49	10. Sep. 16		Wing light Whelen	00713	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required Right GREEN
50	10. Sep. 16		Landing light LED Whelen	13776	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
51	10. Sep. 16		S-2 ROCKE SWITCH	B014030	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
52	10. Sep. 16		Trim actuator	0000215	<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
53.	10. Sep. 16				<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required K-Value 66077
					<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
					<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
					<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required
					<input type="checkbox"/> Optional <input checked="" type="checkbox"/> Required



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## Production Acceptance Test Flight Record

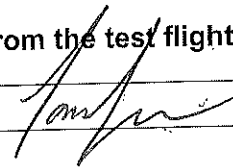
F. 16-05-52

Temperature	72°F		
TT Airframe	2.1	TT Engine	2.1
<b>Pre-Flight Check</b>			
Oil pressure @ Max. RPM	68	Idle OK	1750
EGT @ Max. RPM	1380	Max. RPM (note figure)	5050
Coolant temp within limits	14		
<b>Flight Test</b>			
Climb trim speed (km/h)	70	Lift off speed (km/h)	45
Time to 1000', sec.	59	CHT/OIL temp within limits	11
Min trim speed	48	Max speed of horizontal flight	114
30° turn reversal at 50kt (95 km/h), time sec.	2.5	30° turn reversal at 110kt (220 km/h), time sec	1.2
Stall speed power off, flaps up	46	Stall speed, power on 4000 rpm, flaps up	44
Stall speed @ 30 degree bank	45	Stall speed, power on 4000 rpm, flaps down	39
Stall speed power off, flaps down	39		

Note that ALL boxes must have a value entered in resulting from the test flight

Date March, 8 2017

Signature




Date

Total time since new (airframe)

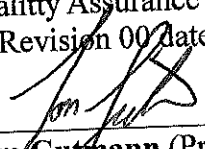
Records

Approval

03/15/2017 Aircraft TT: 2.1 Time in Service: 2.1

**Flight Design CTLS**

All applicable AD's checked through Bi-Weekly (2017-05). No Safety Directives are applicable at this date. This aircraft is a factory-built **Flight Design GMBH**, model **CTLS, N949CT**, SN **F-16-05-52**. This aircraft has been assembled and inspected per the manufacture's specifications and manual ((by a manufacture's authorized technical staff member (Tom Gutmann of Airtime Aviation Inc.)) The following procedures were performed: **1) Wings** installed per Flight Design AMM Section 4.1.2 **2) Horizontal Stabilizer** attached to the fuselage per Flight Design AMM Section 4.3.4.4 **3) Wheel Pants** Installed per Flight Design AMM Section 4.2.2.5 **4) Graphic call signs** installed per SI-ASTM-CTLS-27 Section 3.2.3. This aircraft was determined to be in a condition for safe operation and suitable for flight as per the Flight Design Quality Assurance Manual (naming specifically Tom Gutmann) as well as the SI-ASTM-CTLS-27 Revision 00 dated 01/2013-----

  
**Tom Gutmann** (President of Airtime Aviation Inc.)(Mfg. Authorized Technical Staff Member)



Records of Maintenance, Inspection and Test

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Date

Total time since new (airframe)

Records

Approval

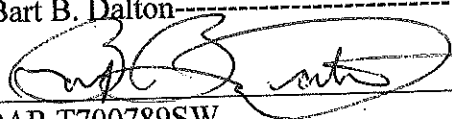
03/15/2017

Aircraft TT: 2.1

Time in Service: 2.1

I have inspected this aircraft and found that (MFG) **Flight Design GMBH**, (Model) **CTL5**, (Serial #) **F-16-05-52, N949CT** aircraft complies with the requirements of the certification requested (FAR 21.190). Certificate of Special Airworthiness (8130.7) along with Operating Limitations were issued this date (15 MAR 2017) with unlimited expiration. The next inspection is due 03/31/2017 or 102.1 Time in Service if the aircraft is used for compensation or hire.

Bart B. Dalton



DAR T700789SW

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Records of Maintenance, Inspection and Test

Date

Total time since new (airframe)

Records

Approval

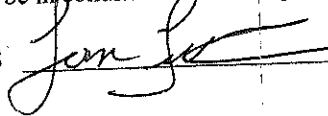
DENTON AVIATION CONSULTING, INC.  
CRS# Q6DR312Y  
CERTIFIES THAT TRANSPONDER

MOD# *SV YADc* S/N. *0114114*  
HAS BEEN TESTED PER FAR 91.413 &  
FAR 43 APP. F

*WA 080917 HABS 2.1 AL 08/09/17*

5 Dec 2017 F-16-05-52; hobbs time 5.1 TT  
The fuel filter was inspected a cleaned. Wheels removed inspect bearings and brakes. Lube all tail joints. Compression test (80-80-79-80) I certify that this aircraft has been condition inspected on ( 5 Dec-2017) in accordance with the manufacturer's maintenance and inspection procedures, and was found to be in condition for safe flight.


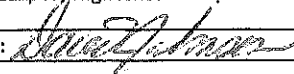
Tom Gutmann A&P 2040778



Records of Maintenance, Inspection and Test

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Date	Total time since new (airframe)	Records	Approval
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<b>DJS AVIATION, LLC 1650 AIRPORT DRIVE CLEBURNE, TEXAS 76033</b>								
	N#:	N949CT	Make:	Flight Design	Serial:	F-16-05-52	TachT:	Unk
	Year:	2017	Model:	CTLS	AFTT:	Unk	Hobbs:	Unk
Removed upper and lower cowlings. Removed insulation at hose clamps. Tightened clamps at radiator and coolant return lines. Reinstalled insulation and cowlings. Returned to service.								
Date: 01/05/2017			Signature: 				A.P. 3494932	



Aircraft Make: Flight Design CTLS Reg: N286TG S/N F-16-05-52 A/C Hobbs time 35.3 Date: 03/13/2018  
 Engine Make: Rotax 912ULS 2 S/N 6.783.172 Engine TT 35.3


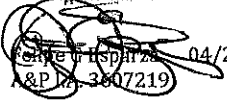
- 1) Removed Registration No. N949CT and installed New Registration No. N286GT this date, FAA form 8650-64 received from FAA to owner for Assignment of Special Registration. New Special Certificate of Airworthiness to be received prior to aircraft flying.

  
 J. Esparza 03/13/2018  
 A&P T.A. 3607219





Records of Maintenance, Inspection and Test

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Date	Total time since new (airframe)	Records	Approval
		 <p>Aircraft Make: Flight Design CTLS Reg: N286TG S/N F-16-05-52 A/C Hobbs time 56.0 Date: 04/26/2018                      Engine Make: Rotax 912ULS 2 S/N 6.783.172 Engine TT 56.0</p> <p>1) Removed Right hand Wheel assembly because of inner tube leak, Disassembled assembly, inspected tire, wheel halves, wheel bearings, and inner tube (Leak). Cleaned and inspected parts, repacked main wheel bearings, installed new Aero Classic inner tube P/N 13X500-6400-6-TR-87. Reassembled wheel assembly and aired up to 29psi. Re-installed wheel assembly, and fairing IAW Flight Design CTLS Maintenance and Procedures Inspection Manual Chapters 1, and 4.</p> <p>I certify all work was accomplished IAW FAR's 14 CFR, Flight Design Maintenance publications and consider Aircraft to be safe for flight in regards to work performed.</p> <p> 04/26/2018                      A&amp;P No. 3607219</p>	

Records of Maintenance, Inspection and Test

Date	Total time since new (airframe)	Records	Approval
		<p>Aircraft Make: Flight Design CTLS Reg: N286TG S/N F-16-05-52 A/C Hobbs time 71.1 Date: 05/23/2018                      Engine Make: Rotax 912ULS 2 S/N 6.783.172 Engine TT 71.1</p> <p>Removed both Right and Left hand main wheel assemblies. Disassembled, inspected wheel halves and installed two each new Dresser CONDOR 6.00-6 6ply Monster (Tundra) tires P/N 072-314-0 and two new Dresser Butyl inner tubes P/N GL-60877B, 6.00-6 TR-87-70 Reassembled wheel assembly and aired up to 25psi. Re-installed wheel assembly's IAW Flight Design CTLS Maintenance Procedures Inspection Manual Chapters 1, 4. And Flight Design LOA for Tires No. 090814 dated 14 August 2009. Updated Weight and Balance</p> <p>I certify all work was accomplished IAW FAR's 14 CFR, Flight Design Maintenance publications and consider Aircraft to be safe for flight in regards to work performed.</p> <p> 05/23/2018                      A&amp;P I.A. 3607219</p>	

Records of Maintenance, Inspection and Test

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Date

Total time  
since new  
(airframe)

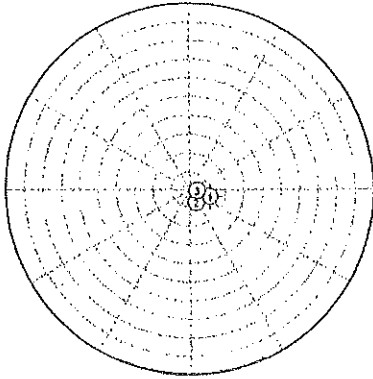
Records

Approval

**PROPELLER # 1 DYNAMICALLY BALANCED**

— POLAR PLOT - 1.0 IN/S FS —

Operator Comments



N288TG CTLS 9.9 Hrs  
81.37.7

MicroVib II SN:3173 Cal:03/02/2018  
Initial: 0.116 IN/S @ 1394.1 RPM Final: 0.038 IN/S @ 1667.0 RPM

Oper: Phillip Esparza  
Date: 06/03/2018 173607219





Records of Maintenance, Inspection and Test

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Date

Total time since new (airframe)

Records

Approval




Aircraft Make: Flight Design CTLS Reg: N286TG S/N F-16-05-52 A/C Hobbs time 103.4 Date: 07/19/2018  
 Engine Make: Rotax 912ULS 2 S/N 6.783.172 Engine TT 103.4



**Complied with the following Maintenance:**

- 1) Removed both main wheel assemblies FOM brake lining change. Removed four each brake linings P/N 4-WHLM66-106 And installed four each new brake linings P/N 4-WHLM66-106 and new rivets P/N 13-MS4-4 and 4-6. IAW CTLS Maintenance publication Chapters 4.2.2.6.4, 6.6, 4.2.2.9.1, 4.2.3.5 and Matco Brake system installation instructions. Re-installed wheel Assembly's.

I certify this Aircraft has been inspected and or repaired IAW manufactures technical publications and find aircraft in condition for safe operation in regards to work performed.

 07/19/2018  
 A&P/A. 3607219

Records of Maintenance, Inspection and Test

Date	Total time since new (airframe)	Records	Approval
		 <p>Aircraft Make: Flight Design CTLS Reg: N286TG S/N F-16-05-52 A/C Hobbs time 108.7 Date: 08/04/2018 Engine Make: Rotax 912ULS 2 S/N 6.783.172 Engine TT 108.7</p> <p><b>Complied with the following Maintenance:</b></p> <ol style="list-style-type: none"><li>1) Removed Nose Wheel, and strut to inspect and lubricate, no abnormalities noted, re-lubricated and re-installed strut and wheel assembly IAW CTLS Maintenance and inspection Manual 4-10-4-18</li></ol> <p>I certify this Aircraft has been inspected and or repaired IAW manufactures technical publications and find aircraft in condition for safe operation in regards to work performed.</p> <p> Felipe G. Esparza 08/04/2018 A&amp;P I.A. 3607219</p>	

Records of Maintenance, Inspection and Test

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Date

Total time since new (airframe)

Records

Approval



Aircraft Make: Flight Design CTLS Reg: N286TG S/N F-16-05-52 A/C Hobbs time 108.7 Date: 08/13/2018  
 Engine Make: Rotax 912ULS 2 S/N 6.783.172 Engine TT 108.7

**Complied with the following Maintenance:**

Removed Nose wheel, strut assembly, removed 6 Red polyurethane dampeners, inspected, cleaned and installed 6 new Red polyurethane dampeners and reassembled nose strut and wheel assembly IAW Flight Design CTLS maintenance and inspection manual Chapter 4-11-4-17

I certify this Aircraft has been inspected and or repaired IAW manufactures technical publications and find aircraft in condition for safe operation in regards to work performed.

*[Signature]*  
 Felipe C. Espinoza  
 A&P # 3607219

08/13/2018