0 Revisions

0.1 Record of revisions

Any revision of the present manual, except actual weighing data, must be recorded in the following table and in case of approved sections endorsed by the responsible airworthiness authority.

The new or amended text in the revised page will be indicated by a black vertical line in the right hand margin, and the Revision No. and the date will be shown on the bottom left hand of the page.

Rev	Affected	Description	Issue	FASA	Inserted
No.	Dagag	Description	Doto	Approval	Data
INO.	Pages/		Date	Approval	Date
	section			Date	Signature
1	0.5, 7.14,	TN1000/09	October	12.12.20	
	7.15		2006	06	
2	0.3-0.5, 1.5,	TN1000/10	January	March	
	1.6, 2.5, 2.11,	Manual revision	2007	27.2007	
	2.12, 2.14,				
	2.15, 3.3,				
	4.13, 4.16-				
	4.18, 4.21,				
	4.24, 4.25,				
	5.3, 5.5-5.8,				
	6.6, 6.8				
3	0.3 - 0.5,	TN1000/11	October	5. Dec.	
	2.12, 4.6,	Manual revision	2007	2007	
	4.12, 4.13,				
	7.14 - 7.17				
4	0.1, 0.4, 0.5,	landing gear positive	Februar	28. April	
1	4.9, 4.17, 7.5	locking device	у	2008	
1		TN1000/13	2008		
5	0.5, 7.9	TN1000/15	March	17.April.	
1		Throttle handle in	2008	2008	
1		rear cockpit. Option			

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0.2 List of effective pages (cont.)

Section		page	issued	replaced	replaced	replaced	replaced
4	App.	4.1	July 2005				
	"	4.2	"				
	"	4.3	"				
	"	4.4	"				
	"	4.5	"				
	"	4.6	"	Oct. 07			
	"	4.7	"				
	"	4.8	"				
	"	4.9	"	Febr. 08			
	"	4.10	"				
	"	4.11	"				
	"	4.12	"	Oct. 0707			
	"	4.13	"	Jan. 07	Oct. 07		
	"	4.14	"				
	"	4.15	"				
	"	4.16	"	Jan. 07			
	"	4.17	"	Jan. 07	Febr. 08		
	"	4 18	"	Jan 07	1001100		
	"	4 19	"	Juii. 07			
	"	4 20	"				
	"	4 21	"	Ian 07			
	"	4 22		5uii. 07			
	"	4 23	"				
	"	4 24		Ian 07			
	"	4 25		Jan 07			
	"	4 26		Jan. 07			
	"	4.20					
	"	4.28					
	"	4.28	"				
5	"	51	July 2005				
-	"	5.2	" " " " "				
	"	53		Ian 07			
	"	54	"	Juii. 07			
	Ann	5.4 5.5	"	Ian 07			
	App.	5.5	"	Jan 07			
		57	"	Jan 07			
		5.1	"	Jan 07			
		5.0	"	Jan. 07			

0.1

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0.2 List of effective pages (cont.)

Section	Page	issued	replaced	replaced	replaced	replaced	_		a) check the rin
6	6.1	July 2005							b) check for cle
	6.2	"						4.	Main landing gea
	6.3	"							a) check the str
	6.4	"							in the struts
	6.5	"							next time!;
	6.6	"	Jan. 07						With TN100
	6.7	"							Check all par
	6.8	"	Jan. 07						at the landing
	6.9	"							b) check the ty
	6.10	"							main wheel:
	6.11	"							nose wheel:
								_	c) check wheel
7	7.1	July 2005						5.	Left wing:-
	7.2	"							a) check lockin
	7.3	"							b) check the ail
	7.4	"							c) check airbra
	7.5	"	Febr. 08						must be poss
	7.6	"							in direction of
	7.7	"							to be remove
	7.8	"							d) check the loo
	7.9	"	March 08					6.	Powerplant and b
	7.10	"							a) all screwed of
	7.11	"							b) function of t
	7.12	"							c) ignition syst
	7.13	"							d) Check tooth
	7.14	"	Oct06	Oct. 07					tension indic
	7.15	"	Oct. 06	Oct. 07					e) engine retair
	7.16	"	Oct. 07						and at the en
	7.17	"	Oct. 07						f) fuel lines, el
	7.18	"							and kinks.
	7.19	"							g) exhaust muf
	7.20	"							pump and ac
	7.21	"							h) apply strong
	7.22	"							sideward dir
	7.23	"							engine block
	7.24	"							damaged. Cl
									i) visual check
									j) turn the prop
									which may i
									l) drain conder
									main wheel
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3.	C.G	. Tow hook:-							
	a)	check the ring muzzle of the C.G. hook for wear and function;							
	b)	check for cleanliness and corrosion;							
4.	Main landing gear and nose wheel (if fitted):-								
	a)	check the struts, the gear box, the g	ear doors and the tyre for	or wear;	dirt				
		in the struts can hinder the landing	gear from locking over	centre th	ne				
		next time!;	0						
		With TN1000/13 executed, standard	l from ser. no. 10-133 on	ı:					
		Check all parts of the landing gear positive locking device (notch and latch							
		at the landing gear struts) for dirt. Che	ck the Bowden cable for	damage.					
	b)	check the tyre pressure;							
		main wheel: 2.5 bar - 36 psi							
		nose wheel: 2.5 bar - 36 psi							
	c)	check wheel brake and hose for we	ar and function;						
5.	Left	wing:-							
	a)	check locking of the outboard wing							
	b)	check the aileron for excessive free	play;						
	c)	check airbrake- and box and control	l rod for wear and free j	play. It					
		must be possible to retract the airbi	ake, even if it is pressed	1 backwa	ards				
		in direction of flight. If there is any	water in the airbrake be	ox this h	as				
	•	to be removed;							
	d)	check the locking of the rear wing	attachment pin.						
6.	Pow	erplant and brake fluid level:-							
	a)	all screwed connections and their s	ecuring						
	b)	function of throttle, and propeller b	rake		~				
	c)	ignition system incl. wires and the spark plug connectors for tight fit							
	a)	Check toothed belt for wear and correct tension, sudden loss of							
	-)	tension indicates damage of the eng	sine assembly						
	e)	engine retaining cable and its conn	ections in the engine col	mpartme	ent				
	Ð	fuel lines electrical wires housday	ashlas and structural no	ata fan u					
	1)	and kinks	cables and structural pa	Ins for v	vear				
	a)	exhaust muffler propeller mount (ooling air guides mech	anical fi	uel				
	5)	nump and accessories for tight fit a	nd any cracking	amearn	uei				
	h)	apply strong pressure to the propel	ermount in forward had	ckward :	and				
	11)	sideward directions to check if the bolted connection between the							
		engine block and the propeller mo	nt or any thing else is lo	oose or					
		damaged. Check the rubber engine	mounts also.						
	i)	visual check of the propeller							
	i)	turn the propeller 1 revolution by h	and and listen for abnor	mal sou	nds				
	J)	which may indicate engine damage							
	1)	drain condensed water from the fue	l tank. The drainer is lo	cated in	the				
	,	main wheel box on the rear wall or	the right hand side.		-				
			e						
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4.5.5 Approach and landing

Note: Always land in the gliding configuration, engine retracted, except in an emergency.

4.5.5.1 Normal landing

It is recommended to dump the waterballast before landing even on airfields. Dump the ballast before an outlanding in any case.

Abeam the landing point extend the landing gear. In calm weather approach with approx. 100 km/h (54 kts.) (ballast dumped!). With strong wind and / or waterballast fly faster! The very effective Schempp-Hirth dive brakes make a short landing possible.

Slipping may be used as additional landing aid.

Caution: While side-slipping the rudder is held in its deflected position by the airflow. So it is recommended to practice slipping at a higher altitude.

The slip can be introduced at the recommended approach speed see above. To recover from the slip neutralize the aileron control first, this will reduce the force which sucks the rudder in it's displaced position.

During the slip the airspeed indicator shows airspeed values which are too low, so the slip must be executed with regard to the position of the horizon. No influence on the slipping characteristics when slipping with partially filled waterballast is noticeable.

Strong crosswind offers no problem.

Do not approach too slowly with fully extended airbrakes otherwise the aircraft may drop during flare out. When flaring out keep the airbrake setting you were using, opening them further may drop the motorglider!

You can land the DG-1000T on soft fields with the landing gear extended, as there is no tendency of nosing over. During touch down pull the stick completely to avoid the fuselage nose touching the ground.

After landing in a muddy field clean the landing gear and tow releases. Dirt in the front strut can keep the landing gear from locking over centre next time.

With TN1000/13 executed, standard from ser. no. 10-133 on:

Dirt in the landing gear positive locking device (notch and latch at the landing gear struts).may keep the latch from engaging in the notch next time. Simply hosing with water is the best cleaning method (don't use a high pressure cleaner).

10) Undercarriage retraction - extension handle - black



back = retracted, front = extended,

The undercarriage is locked in the extended position by an overcentre locking arrangement and an additional safety catch. The handle is to be turned towards the cockpit wall, so that the locking catch will engage. In retracted position the landing gear is locked over centre.

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With TN1000/13 executed, standard from ser. no. 10-133 on: An additional landing gear positive locking device (notch and latch at the landing gear struts) secures the landing gear in the extended position. An additional catch in the front upper area of the landing gear box secures the landing gear in retracted position.

11) Airbrake handle - blue

The wheel brake is operated at the end of the airbrake handle travel.



Parking brake combined with an airbrake securing device (Piggott-hook): Pull the airbrake handle back to actuate the wheelbrake and rotate the handle to the cockpit wall. A detent will engage in one of 4 notches to hold the system in this position.

In case the airbrakes mistakenly haven't been locked, a detent engages in one of several notches to avoid inadvertent deployment of the airbrakes. To open and to close the airbrakes the operating handle must be rotated into the cockpit so far that the detent passes the notches.

- 12) Constantly open de-misting air vents
- 13) Main air vent
- 14) Main air vent operating knob pushed to front = closed pulled = open



- 15) Swivel air vents
- 16) Canopy opening handle white-red towards the nose = closed into cockpit = open



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35. DEI-NT in the rear cockpit (Option) with integrated ignition switch: The ignition is only on and the powerplant will be extended, if the ignition switches in both cockpits are in the on position. As soon as 1 ignition switch will be switched off, the ignition is off and the powerplant will be retracted.

This means, that for operation from the front seat the ignition switch in the rear cockpit must be always in the "on" position. For operation from the rear seat, the ignition switch in the front cockpit must be "on".

Caution: For passenger flying etc. it is necessary to secure the ignition switch in the rear cockpit with the securing plate. The securing plate is equipped with a quarter turn lock which must be operated with a screw driver. For storage you may install the securing plate turned downwards 180°.

36. Manual powerplant extension-retraction switch in the rear cockpit (Option), only together with DEI-NT in the rear cockpit.

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- 37. Starter button in the rear cockpit (Option), only together with Starter DEI-NT in the rear cockpit.
- 38. Throttle handle in rear cockpit TN1000/15 (Option): The handle is located between item 36) and 37), similar to the front cockpit (not shown in drawing on page 7.3). Note: No starter button can be installed in the handle.