

Maintenance Manual DG-1000M

0 General

0.1 Manual amendments

No.	Page	Description	Date
1	0.0, 0.1, 0.3 ÷ 0.7, 0.9, 0.12 ÷ 0.14, 1.2, 1.5, 1.8 ÷ 1.12, 1.20, 1.24, 1.31, 1.33, 1.34, 2.1 ÷ 2.4, 2.6, 3.1 ÷ 3.7, 4.6 ÷ 4.8, 4.11, 4.12, 4.19 ÷ 4.24, 4.26, 4.27, 4.29, 4.30, 6.1, 6.4, 7.2, 8.1 ÷ 8.4, diagrams 2, 3, 7, 15, 16, 23, add drawing W59, 10E202 issue C (only with coolant pump Pierburg)	Manual revision Alternative for coolant pump TN1000/22	October 2012
2	0.1, 0.3, 0.6, 0.11, 0.13, 0.14, 1.3, 1.4, 1.10, 8.2, 8.3, 8.5	Manual revision TN1000/23	July 2014
3	0.1, 0.3- 0.6, 1.11, 1.28, 3.8, 4.12, 8.2, 8.3, diagram 16	Fuel pressure regulator Manual revision TN1000/27	July 2015
4	0.1, 0.4 ÷ 0.7, 3.7, 4.25, 7.1, 7.2, 8.3, diagram 2, 10E202, Inspection instruction No. 1 for TN1000/30	Inspections drive mount Manual revision TN1000/30	March 2016
5	0.1, 0.7, drawing 10E202 issue h	Electrical system, manual revision TN1000/31	December 2016
6	0.1, 0.3, 0.4, 0.6, 0.8, 0.13 - 0.15, 2.1, 2.2, 2.6, 3.5, 8.1, 8.2, diagrams 10, 12, 14, 23	Manual revision TN1000/32	July 2017
7	0.1, 0.6, diagrams 7 + 15	Main landing gear- brake hose, manual revision TN1000/35	December 2017
8	0.1, 0.4, 3.7	Drive mount, inspections	February 2018

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List of effective pages (cont.)

Section	page	issued	replaced	replaced	replaced
	1.24	October 2010	October 2012		
	1.25	"			
	1.26	"			
	1.27	"			
	1.28	"	July 2015		
	1.29	October 2010			
	1.30	"			
	1.31	"	October 2012		
	1.32	"			
	1.33	"	October 2012		
	1.34	"	October 2012		
	1.35	"			
2	2.1	October 2010	October 2012	July 2017	
	2.2	"	October 2012	July 2017	
	2.3	"	October 2012		
	2.4	"	October 2012		
	2.5	"			
	2.6	"	October 2012	July 2017	
3	3.1	October 2010	October 2012		
	3.2	"	October 2012		
	3.3	"	October 2012		
	3.4	"	October 2012		
	3.5	"	October 2012	July 2017	
	3.6	"	October 2012		
	3.7	"	October 2012	March 2016	Febr. 2018
	3.8	"	July 2015		

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- 16) Check and grease the starter motor gear shaft (don't grease the starter motor gear) Check starter motor for tight mounting. There should be no excessive radial free play of the starter motor gear axle. With too much free play the starter must be exchanged.
- 17) Clean the starter ring gear and check for damage.
- 18) Remove the fairings which protect the drive belts. Check the drive belts for wear. If a drive belt shows signs of wear all drive belts must be replaced. Check and correct tension (see sect. 4.10.2). Check if drive belt operating time is exceeded see section 0.4. Check the rollers which guide the drive belts for tight fit to their mounting brackets and for easy turning. If there is any significant friction in their bearings, the rollers have to be replaced. Check the complete drive mount for cracks according to Inspection instruction No. 1 for TN1000/30, check additionally the upper part of the drive mount especially at the connection of the tubes to the propeller support area.. Re-install the drive belt fairings, secure screws with Loctite 243.
- 19) Clean the spindle drive. Check the connections of the spindle drive to fuselage and powerplant.
- 20) Check the time taken to retract and to extend the power plant. If it takes longer than described under sect. 1.13.2 the gas strut has to be replaced.
- 21) Check the engine retaining cable for wear and kinks. Check the engine position with the retaining cable fully tensioned according to sect. 1.13.3. If the cable is too long it has to be adjusted at the adjustment screw in the rear end of the engine bay.
- 22) Check the main bearings of the upper pulley for any free play.
- 23) Check the tension of the propeller bolts: remove the lockwire, loosen the propeller bolts and retorque them with a torque wrench, torque value see section 1.12.9. Secure again with lockwire according to section 4.10.6.
- 24) Check the propeller blades for any damage.
- 25) Check all electric cables and connectors. Check the terminals especially of the starter positive and earth wire for cracks.

Note: The critical spots may be covered by heat shrink tubing.

- 26) Check the whole electrical system wiring, ensure all equipment is secure and all connections are OK. Check proper functioning of all systems and fuses/circuit breakers.
- 27) Reinstall the engine bay doors. Check all the hinges on the engine compartment doors for proper fit and any cracks, tears etc. Check if hinge pins are secured properly. Check the engine door control system.