0.1 RECORD OF MANUAL REVISION

Any revision of the present manual, except actual weight 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 pages 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 side of the page.

Rev. No.	Affected pages	Revision description	Date	Approval
00	ALL	Initial	31.08.2011	
01	0-1, 0-2, 4-9, 4-10	SBLSA-008-2015	22.04.2015	

0.2 LIST OF EFFECTIVE PAGES

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	4	31.08.2011		**4**	31.08.2011
1	**1**	31.08.2011	**6**	**1**	31.08.2011
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	4	31.08.2011		**4**	31.08.2011
	5	31.08.2011		**5**	31.08.2011
2	**1**	31.08.2011	**7**	**1**	31.08.2011
	2	31.08.2011		**2**	31.08.2011
	3	31.08.2011		**3**	31.08.2011
	4	31.08.2011		**4**	31.08.2011
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	6	31.08.2011		**6**	31.08.2011
	7	31.08.2011		**7**	31.08.2011
	8	31.08.2011		**8**	31.08.2011
				9	31.08.2011
3	**1**	31.08.2011		**10**	31.08.2011
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	5	31.08.2011		**14**	31.08.2011
	6	31.08.2011		**15**	31.08.2011
	7	31.08.2011			
			8	**1**	31.08.2011
4	**1**	31.08.2011		**2**	31.08.2011
	2	31.08.2011		**3**	31.08.2011
	3	31.08.2011		**4**	31.08.2011
	4	31.08.2011		**5**	31.08.2011
	5	31.08.2011		**6**	31.08.2011
	6	31.08.2011			
	7	31.08.2011	**9**	**1**	31.08.2011
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	10	22.04.2015			
	11	31.08.2011			
	12	31.08.2011			
	13	31.08.2011			

4.5.1. Before starting engine

1. Ignition:	Both circuits switched OFF.
2. Rudder pedals:	Freedom of movement.
3. Control stick:	Freedom of movement.
4. Throttle lever:	Freedom of movement, set to idle position.
5. Elevator trim control:	Set to neutral position.
6. Fuel quantity:	Check.
7. Instruments:	Setting and check up of the value.
8. Radio:	Function check.
9. Seat and safety harness:	Adjust and lock.
10. Brake:	Function check.
11. Propeller pitch range:	Only electrically adjustable propellers: Check the min. and max. propeller blade pitch.
12. Canopy of cockpit:	Latched and locked.

4.5.2. Engine starting

WARNING

Before starting engine check position of the landing gear switch.

Switch position - DOWN (landing gear extended)!

Cold engine:

1. Brakes:	Set parking position.
2. Fuel selector:	Set ON.
3. Choke:	Activate.
4. Throttle lever:	Set to idle position.
5. Master switch:	Switch ON.
6. Turbo TCU switch:	Check if sealed (switch is constantly ON) (fig. 8-1).
7. TCU functional test:	For approx 1-2 seconds both lamps illuminate and then extinguish. If not, a check as per Maintenance Manual is necessary.
8. Starter key:	Switch to 1st position.
9. Auxiliary fuel pump:	Switch ON and establish the fuel pressure and then switch OFF.
10. Ignition:	Both circuits switch ON.
11. Starter key:	Actuate. Activate starter for max. 10 sec only without interruption followed by a cooling period.
12. As soon as engine runs:	Adjust throttle lever to achieve smooth running at approximately 2500 RPM, check if oil pressure has risen within 10 sec to 2 bar and monitor oil pressure.
13. Choke:	De-activate.
14. Warming up:	Start warming up procedure according to procedure 4.5.3.

Fig. 8-1 Turbo TCU switch sealed in position ON

Warm engine (if the engine is already at operating temperature):

1. Brakes:	Set parking position.
2. Fuel selector:	Set ON.
3. Throttle lever:	Set to idle position.
4. Master switch:	Switch ON.
5. Turbo TCU switch:	Check if sealed (switch is constantly ON) (fig. 8-1).
6. TCU functional test:	For approx 1-2 seconds both lamps illuminate and then extinguish. If not, a check as per Maintenance Manual is necessary.
7. Starter key:	Switch to 1st position.
8. Ignition:	Both circuits switch ON.
9. Starter key:	Actuate. Activate starter for max. 10 sec only without interruption followed by a cooling period.
10. As soon as engine runs:	Adjust throttle lever to achieve smooth running at approximately 2500 RPM, check if oil pressure has risen within 10 sec to 2 bar and monitor oil pressure.

4.5.3. Engine warming up

In accordance with the Operator's Manual for ROTAX 914 UL start the warming up period at 2000 RPM for approx. 2 minutes. Continue at 2500 RPM, duration depending on ambient temperature, until oil temperature reaches 50 °C. Check temperatures and pressures.

Engine ground test:

1. Ignition check:	Check the two ignition circuits at 4000 RPM. Speed drop with only one ignition circuit must not exceed 300 RPM. Max. difference 115 RPM of speed by use of either circuit A or B.
2. Throttle response:	Short full throttle ground test, speed must not exceed 5800 RPM.
3. Minimum speed:	Minimum speed on the ground at full throttle must be 5500 ±200 RPM depending on ambient temperature and pressure.
4. Idle speed:	Check the idle speed 2000 RPM.
5. Propeller pitch range:	Only hydraulic adjustable propellers: Engine speed up at 4000 RPM, set up min. pitch and then max. pitch. Between these end positions of propeller pitch should be observed significant engine speed variation and acoustic manifestation generated by propeller.