



Service Bulletin

Handbook Corrections

MANDATORY

Symbols:

Please pay attention to the following symbols emphasizing particular information throughout this document.

- ▲ WARNING: Identifies an instruction, which if not followed, may cause serious injury or even death.
- CAUTION: Denotes an instruction which if not followed, may severely damage the aircraft or could lead to suspension of warranty.
- ◆ NOTE: Information useful to implement the change more easily.

1. General

<u>Issued by:</u>	Remos Aircraft GmbH Flugzeugbau Franzfelde 31 D-17309 Pasewalk Web: www.remos.com - Telephone: +49-3973-225519-0
<u>Release date:</u>	June 1 st 2011
<u>Date of effect:</u>	immediately
<u>Compliance:</u>	before next take-off
<u>Release Number:</u>	SB-006-handbook-corrections
<u>Superseded notice:</u>	none
<u>Models affected:</u>	GX
<u>Affected S/N:</u>	255 ff
<u>Reason:</u>	incorrect performance values mentioned in the pilot operating handbook (POH)



Service Bulletin

Subject: • correct handbook according to this service bulletin, or
 • obtain a new revision of the POH (recommended)

Time required: • for correction app. 30 min

2. Material Information

Tools needed: • none

Parts needed: • this SB, or
 • new revision of POH

3. Handbook Corrections

Take-Off and Landing Distances

Take-Off		Woodcomp or Tonini	Sensenich or Neuform
Take-off roll distance (Flaps 0°)	ft m	n/a	495ft 151m
Take-off air distance (Flaps 0°)	ft m	n/a	226ft 69m
Take-off distance (Flaps 0°)	ft m	n/a	721ft 220m
Take-off roll distance (Flaps 15°)	ft m	580ft 177m	525ft 160m
Take-off air distance (Flaps 15°)	ft m	325ft 99m	200ft 61m
Take-off distance (Flaps 15°)	ft m	905ft 265m	725ft 215m

Landing		all propellers
Landing roll distance (Flaps 40°)	ft m	341ft 104m
Landing air distance (Flaps 40°)	ft m	335 102m
Landing distance (Flaps 40°)	ft m	676ft 206m

Service Bulletin

NOTE	Take-off/landing conditions have been determined at ISA standard conditions at mean sea level and over a virtual 50ft obstacle.
-------------	---

NOTE	Short field procedures apply. Diverting from the short field procedures defined in section 4 will lead to significant longer take-off and landing distances.
-------------	--

Performance data apply under ISA conditions on a dry, hard runway surface. Various circumstances have an effect on take-off and landing performance. According to ICAO-circular 601AN/55/2, it is recommended to use following add-ons on roll- and air distances:

add-ons on take-off roll distance	
for dry grass	+ 20%
for wet grass	+ 30%
for soft surface	+ 50%
per 2 knots tailwind component	+ 10%
per 10 knots headwind component	- 10%
for high temperatures above standard	+ 10% per 10°C
for altitude above sea level (density altitude)	+ 5% per 1,000 ft

add-ons on take-off air distance	
for dirty wings/raindrops	+ 15%
per 2 knots tailwind component	+ 10%
per 10 knots headwind component	- 10%
for high temperatures above standard	+ 10% per 10°C
for altitude above sea level (density altitude)	+ 5% per 1,000 ft

Rate of Climb

Propeller		Woodcomp or Tonini	Sensenich	Neuform
best angle of climb	mph	56	56	56
airspeed V_x	kts	49	49	49
best rate of climb	mph	75	75	75
airspeed V_y	kts	65	65	65
best rate of climb at MSL	fpm	600	710	710

climb is flown with flaps retracted, see section 4



Service Bulletin

Cruise Speed, RPM, Fuel Consumption, Range

Rotax 912 UL-S, 100 hp engine, Woodcomp or Tonini Fixed Pitch Prop

Engine Speed rpm	Fuel Consumption gph	True Airspeed 3,000 ft, mph / kts	Maximum Endurance hr	Maximum Range NM
5,400	6.7	113 / 98	3.2	311
5,200	6.0	109 / 95	3.5	332
5,000	5.4	104 / 91	3.9	353
4,800	4.9	100 / 87	4.3	375
4,600	4.4	95 / 83	4.8	401
4,400	3.9	91 / 79	5.4	425
4,200	3.5	86 / 75	6.0	446

Rotax 912 UL-S, 100 hp engine, Sensenich Ground Adjustable Prop

Engine Speed rpm	Fuel Consumption gph	True Airspeed 3,000 ft, mph / kts	Maximum Endurance hr	Maximum Range NM
5,400	6.7	130 / 113	3.2	362
5,200	6.0	123 / 107	3.5	375
5,000	5.4	117 / 102	3.9	398
4,800	4.9	111 / 97	4.3	417
4,600	4.4	105 / 91	4.8	437
4,400	3.9	98 / 85	5.4	459
4,200	3.5	92 / 80	6.0	480

Rotax 912 UL-S, 100 hp engine, Neuform Ground Adjustable Prop

Engine Speed rpm	Fuel Consumption gph	True Airspeed 3,000 ft, mph / kts	Maximum Endurance hr	Maximum Range NM
5,400	6.7	130 / 113	3.2	362
5,200	6.0	123 / 107	3.5	375
5,000	5.4	117 / 102	3.9	398
4,800	4.9	111 / 97	4.3	417
4,600	4.4	105 / 91	4.8	437
4,400	3.9	98 / 85	5.4	459
4,200	3.5	92 / 80	6.0	480

Service Bulletin

Reference Airspeeds

speed		IAS	description
V_{NE}	Never exceed speed	155 mph (134 kts)	Airspeed which may never be exceeded
V_{NO}	Maximum speed in turbulence	123 mph (107 kts)	Airspeed which shall not be exceeded in gusty weather conditions
V_A	Maneuvering speed	108 mph (94 kts)	Maximum airspeed for all permissible maneuvers
V_{FE}	Speed range flaps fully extended	81 mph (70 kts)	Airspeed which may never be exceeded in flaps down configuration
V_{APP}	Approach airspeed	75 mph (65 kts)	Recommended airspeed for approach with full payload
V_X	Airspeed for best angle of climb	56 mph (49 kts)	Airspeed for the greatest altitude gain in the shortest horizontal distance
V_Y	Airspeed for best rate of climb	75 mph (65 kts)	Airspeed for the greatest altitude gain in the shortest time
V_{S1}	Minimum airspeed flaps retracted (0°)	51 mph (44 kts)	Minimum permissible airspeed in flaps up configuration
V_{S0}	Minimum airspeed flaps extended (40°)	44 mph (38 kts)	Minimum permissible airspeed in flaps down configuration

**REMOS wishes you safe and fun flights!
Always check your aircraft before you fly!**