

D-5377 DAHLEM-SCHMIDTHEIM, FLUGPLATZ DAHLEMER BINZ Telefon (02447) 277/278. Telex 833602 spkg

Serena) # 31060

Flight Manual

for the aircraft



Data Sheet No.: L-695Serial number:5/060Year of construction:Registration:N-99809

Edition: 15-6-74 (replacing 28-11-72) Translation of the German Flight Manual

This manual shall be kept on board the aircraft

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PÜTZER GMBH & CO, K	G

RF 5 B - SPERBER

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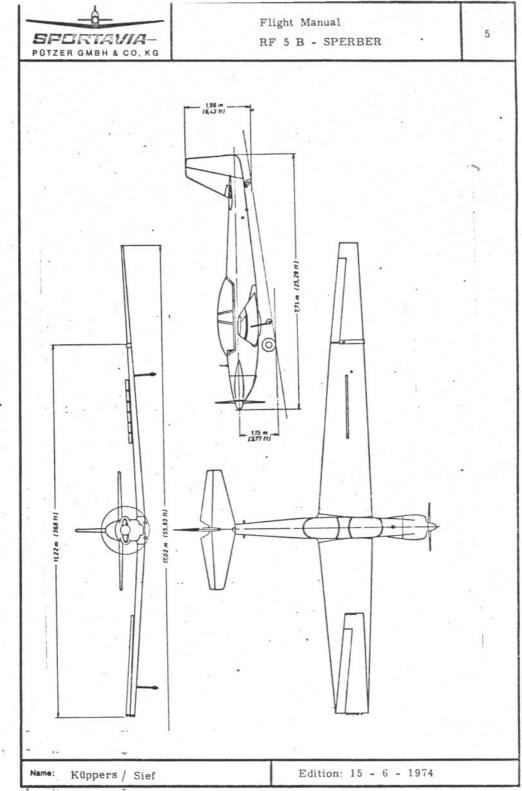
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1.2 Revisions

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2. **Operating** Limitations

2.1 Basis of Certification

The RF 5 B - SPERBER is certified on the basis of:

- a) Requirements for Approval and Certification of Powered Gliders (LBA-Mitteilung 10.05, Edition January 8, 1959 incl. amendments of April 14, 1967).
- b) Summary of Requirements for Flight Characteristics of Powered Gliders (LBA-Mitteilung 10.05 - 1, Edition February 23, 1971).
- c) Airworthiness Requirements for Gliders (LFS, Edition February 1966 incl. amendments of May 25, 1966 and August 7, 1967).

Category: Normal Powered Glider, Self launching Aerobatics and Cloud Flying not allowed.

2.2 Speed Limits (IAS)

1

_	,	km/h	mph
V _{NE} -	never exceed speed	225	140
v _A -	Manoeuvring speed	165	103
v _{FE} -	max. spoiler extended speed	225	140
v _{LE} -	max. landing gear extended speed	225	140
VLO:	max. landing gear operating speed	130	81
V SO	stalling speed spoiler extended	72	45
v _{s1} -	stalling speed spoiler retracted	68	42

Markings on airspeed indicator

	Red line	(max. speed)	225	km/h	140 mph
	Yellow arc	(caution range)	165225	km/h	103140 mph
	Green arc	(normal operating range)	75165	km/h	47103 mph
	White arc	(spoiler extended range)	85225	km/h	53140 mph
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2.3 Engine Limits

Engine: SPORTAVIA - Limbach SL 1700 E

Engine rpm

max. rpm(red line)3600 rpmcaution range(yellow arc)3200...3600 rpmnormal operating range(green arc)700...3200 rpm

Propeller:

Hoffmann HO 11 - 145 B 80 L (fixed-pitch) run up 2800 + 100 rpm

or

Hoffmann HO - V 62 R (variable pitch) run up 2900 <u>+</u> 100 rpm

Fuel: 100 L aviation fuel, content max. 38 1 (8,4 Imp. Gall)

Oil pressure :

operating range (green arc, limited by red lines) 1,0 ... 4,0 kp/cm²

Oil temperature:

max. oil temperature(red line) 120° Cnormal operating range(green arc) $50...120^{\circ}$ Cmin. oil temperature(red line) 50° C

Oil specification :

Oil	Air temperature	Specification		
Motoroil of well- known trademarks,	more than 20° C	SAE 40 SAE 30	SAE 20 W/50 Multigrade	
e.g. Shell - BP - Esso etc.	0 [°] C to 20 [°] C	SAE 20 W/50 Multigrade		
	below 0 ⁰ C	SAE 10 W/40 Multigrade		

Oil content:

-

min. 1, 51 (0, 33 Imp. Gall.), max. 2, 51 (0, 55 Imp. Gall).

Name:	Ki	ip	p	e	r	s	
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	алания амвна со, ка		Flight Manual RF 5 B - SPERBER	
2.4	Crew crew min. crew	2 persons 1 person,	indispensable minimum of weight 55 kp (121 lbs)	•
	Important:			2 A
			ng the pilot must occupy the front s es to be fixed at left harness brack	

2.5 Weight

> 680 kp (1500 lbs) max. permissible T.O. weight 475 kp (1050 lbs) empty weight (standard equipment) about 205 kp (450 lbs) payload about Payload consists of fuel (max. 28 kp = 62 lbs), (max. 5 kp ≜ 11 lbs) baggage and crew

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2.6 C.G. Flight Limits

> Aircraft position: upper stringer of fuselage (cockpit frame) horizontal

200 cm (6,56 ft) in front of leading Datum: edge of wing section, 29 cm (0,95 ft) from centre line of the aircraft (side wall)

max. forward c.g.: 233, 5 cm (7,66 ft) aft datum max. aft c.g.: 253,7 cm (8,32 ft) aft datum

Loading

Incorrect loading may spoil flying qualities and performance and cause dangerous manoeuvres. The pilot should pay special regard to correct loading.

The empty weight and its c.g. position shows little difference in serial production, but can differ more with additional equipment (radio, navigation aids, oxygen etc.) In order to obtain the correct c.g. in flight one should know each items weight and its distance to datum. Multiplying item weight by its distance to datum the moment is found. Summary of moments divided by the weight results in the c.g. position of the loading in question.

In order to simplify this calculation one can use the loading charts in Appendix 2.

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The following example shows how to proceed:

1.

Take empty weight and its moment from weight and balance sheet in Appendix 1

example:	empty weight	473,6	kp
	its moment	1137,5	mkp

2.

Take from loading charts 1 and 2 (Appendix 2) for each part of the payload the moment concerned:

example:

	Weights	Moments
fuel max. (38 1 × 0,72 kp/1)	27,4 kp .	37,5 mkp
front pilot	75,0 kp	171,0 mkp
front parachute	7,0 kp	17,5 mkp
aft pilot	80,0 kp	264,8 mkp
aft parachute	7,0 kp	25,0 mkp
baggage	4,0 kp	16,1 mkp
	200,4 kp	531,9 mkp

3.

Add the partial loads and moments to the empty weight and its moment and you have total weight and its moment.

With these figures consult chart 3 (Appendix 2) and you will see, if you are within the permissible range or not. In the case of the total weight moment being out of the permissible range the payload distribution must be changed or ballast (e.g. sand- or lead cushion) must be used. When total weight moment is outside the forward limit you should put ballast into the aft seat or into the baggage compartment. When total weight moment is outside the aft limit you should put ballast into the front seat or remove baggage from its compartment.

In any case with the new partial load the check must be done as before, in order to ensure you are within the permissible range of moment, which means within the permissible c.g. range. Be careful not to exceed the weight limits (max. T.O. weight, max. baggage).

Our example results in:	Weights	Moments		
partial loads empty weight	200,4 kp 473,6 kp	531,9 mkp 1137,6 mkp		
•	674,0 ko	1669,4 mkp		



Checking in chart 3 you can see that you are within the permissible range for the total weight moment. Because of the fuel consumption the c.g. is moving backward while the engine is running. Therefore you should do the above check once again leaving the fuel weight and moment away. If you are within the permissible range of moment again, you are sure not to leave the permissible c.g. range in flight.

Our example		Weights	Moments
partial loads minus fuel	-	200,4 kp 27,4 kp	531,9 mkp - 37,5 mkp
empty weight		173,0 kp 473,6 kp	494,4 inkp 1137,5 mkp
		646,6 kp	1631,9 mkp

Checking in chart 3 you can see that the payload and its distribution is o.k.

2.7 Manoeuvres

2.7.1 Gliding Flight (engine stopped, spoiler retracted)

1. Stalling straight ahead

- Stalling speed 68 km/h (42 mph)
- Warning by buffeting of the stabilizer at the speed of 75 km/h (47 mph), controls getting weak.
- Generally stall is followed by nose dropping
- Recovery is effected by pushing forward on the stick
- One can pilot the "Sperber" up to the stalling speed
- The "Sperber" will not spin easily
- The loss of height will be less than 30 m (100 ft)

2. Stalling in 30° banked turns

- Stalling speed 75 km/h (47 mph)
- The aircraft rolls toward level flight when stall occurs
- At stalling speed with a bank angle of 30° the aircraft can be brought back to level flight with normal manoeuvres.

2.7.2 Power Flight (engine idling, landing gear down, spoiler extended)

- Stalling speed 75 km/h (47 mph)
- Warning by buffeting of the stabilizer at the speed of 80-85 km/h (50 53 mph)

The buffeting increases as the stall is approached.

- Generally stall is followed by nose dropping
- Recover is effected by pushing forward on the stick

- One can pilot the "Sperber" up to the stalling speed-

- The "Sperber" will not spin easily.



2. Stalling in sloping with an angle of 30°

- Stalling speed 80 km/h (50 mph)
- Further stalling characteristics as in gliding flight

It is difficult to make the SPERBER spin at mid or forward C.G.'s. When spinning, the SPERBER recovers by itself after one turn.

At aft C.G.'s the SPERBER can be made to spin more readily. When spin recover action is taken, the SPERBER recovers in less than a half turn.

2.8 Operating

The aircraft may be operated for VFR - flights in daylight with following minimum equipment:

2 airspeed indicators

1 oil temperature indicator

2 safety harnesses (4-point-type)

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2 altimeters

- 1 fuel storage indicator
- 1 rpm indicator

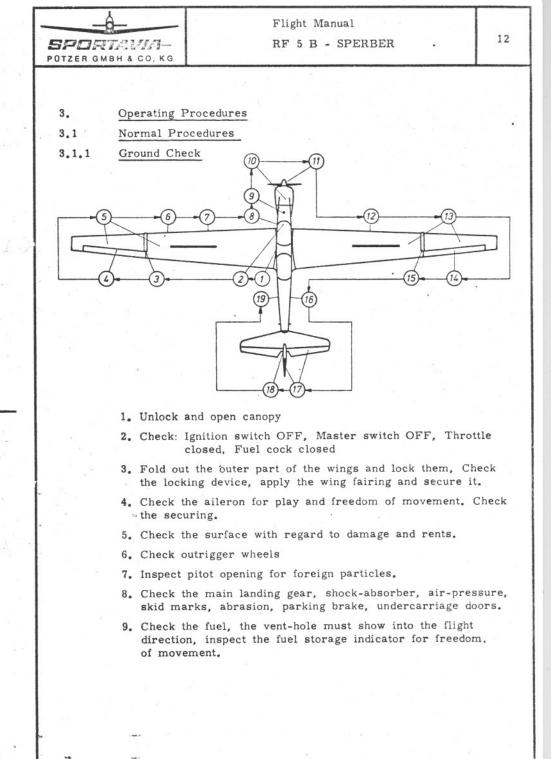
- 2 back cushions
- 1 oil pressure indicator

Flights under IFR - and/or icing conditions are not permitted.

Aerobatics and Cloud Flying is not allowed. Selflaunching Powered Glider.

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	10.	min. 1,5 max. 2,5	1 (0	level with tail-wheel on the gr ,33 Imp. Gall) ,55 Imp. Gall)	ound.
		Upper level end of dips Check engin	l is the mark, th tick. ne suspension, s	he lowest level is 1 mm above park-plugs and ignition harness exhaust with regard to rents.	
•	11.		N: For variable-	r for cracks, nicks and securi pitch propeller HO-V 62 R swi before starting engine! Furth	tch
1 ·	12.	as 6.	instructions s	ee Flight Manual Appendix 4.	
	13. 14.	as 5. as 4.			
	15. 16. 17.	•		r foreign particles. for freedom of movement and	
	18. 19.	Check tail as 16.	wheel and tail w		
		For extens	ive checks see N	faintenance Manual!	
	3.1.2	Before Star	ting Engine		
		2. Sitting p	elts adjusted and	(cushion, parachute)	
		5. Check a	ll controls for o checked and lock		
15		8. Radio O	FF		
	3.1.3	Starting En	gine		
_			ner conditions:		
		 Throttle Ignition Pull state) open	
949		shut en	gine down and de	termine trouble.	
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II. In winter conditions:

(Temperature less than 8° C \triangleq 46,5° F) in addition to all items of I: Pull choke before starting engine

III. Restarting Engine in Flight after a longer Gliding

- 1. Switch variable-pitch propeller into take-off position again
- 2. Mainfuse and master switch ON
- 3. Throttle 1/3 open
- 4. Choke ON
- 5. Ignition ON
- 6. Pull starter and release immediately, when the engine fires
- 7. Inspect oil pressure
- 8. Choke OFF
- 9. Warming up at 2200...2500 rpm until oiltemperature is min. 50° C (122° F)

3.1.4 Engine Run-Up

- 1. 1200 1500 rpm
- 2. Oil temperature min. 50° C (122° F)
- 3. Full throttle check with brake on, minimum rpm's 2700 or 2800 according to prop, engine is ready for take-off, when it will take full throttle without hesitating or faltering
- 4. In the winter the choke is pulled until the engine will run without faltering without the choke. Warming up not longer than five minutes. It is only necessary that it will take full throttle without hesitating. After 5 min. ground run the oil temperature will increase insignificantly only.

3.1.5 Taxying

- 1. Release brake by turning handgrip horizontal and pushing forward
- 2. Open throttle slowly
- 3. If the SPERBER will not move at part throttle, apply full rudder left and right. Once moving use throttle as required for taxying.
- 4. Taxy slowly and follow a zigzag course for a better observation of the taxiway (especially on grassfield)
- 5. Keep clear of obstacles
- 6. Avoid quick sharp turns.

3.1.6	
	Before Take - off 1. Canopy in front and in the rear closed and locked.
	 Controls fully moveable and free in correct sense. Spoiler locked. Trim adjusted. Flight instruments set. Engine instruments normal.
3.1.7	Take - off
Ι.	Usual Take-off on a grass runway
	 Open throttle gently. Keep direction with small deflections of rudder. The rudde and the tail wheel are connected by springs. Keep the wings horizontal, but avoid overloading the outriggers, otherwise there is too great a moment on the z-axis, which has to be countered by the rudder. To unload the tailwheel push gently the stick forward and then ease it back during the acceleration. Take off at 75 km/h (47 mph) in about a "Three pointer" attitude (tail wheel height about 5 - 10 cm).
п.	Take-off at cross - wind (max. 15 km/h ≜ 8 kts)
	 Open throttle gently. Hold the tail wheel on the ground and ease the stick back slightly, until the rudder is effective. Keep the wings horizontal, but avoid overloading the outriggers otherwise there is too great a moment on the z-axis, which has to be countered by the rudder. Hold the direction with corrections by the rudder. When the rudder is effective hold the elevator in a normal position until take off at 75 km/h (47 mph)

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3.1.8	Climb		
	(56 mph	the climb the throttle is fully open.	km/h
	b) at hig	al 100 km/h (62 mph) gher outside temperatures 110 - 120 km/h (68-7 w temperatures 90 - 100 km/h (56 - 62 mph)	5 mph)
	 Set trim Retract 	tab gear at 50 m (150 ft) altitude	
		k safety lock by pressing the small button and back the lever.	
	positi	back gear lever and push down into retracted ion. In retracted position the gear lever is just the seat.	
	gear	the gear lever is in the retracted position the device locks itself and the safety lock springs and into the locked position.	
	d) Check	k the safety lock locked and green light out.	
3.1.9	Cruising		
	 Avoid m Check e 	setting 2500 - 3200 rpm hore than 3200 rpm due of the noise-level ngine instruments from time to time iable-pitch propeller see instructions in App. 4	- 18
3.1.10	Stopping the	e engine in flight	
	 2. Fly about tempera 3. Move th 4. Ignition 5. Reduce 	speed to 100 km/h (62 mph) ut 2 min. at 2200 - 2500 rpm until the oil ture starts to fall. rottle into idling position. OFF, master switch remains ON. speed to 80 km/h (50 mph) until the prop will	
	stop.	e throttle so far, that the gear warning horn wi rop stops vertical pull the starter to turn it to	11
		variable-pitch propeller into feathered position.	

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3.1.11 Gliding

- Best glide ratio at 98 km/h (61 mph) is 1 : 26, sinking speed 1.05 m/s (206 ft/min).
- 2. Minimum sinking speed
 - (a) two people 0,95 m/s (198 ft/min) at 80 km/h (50 mph)
 - (b) one people 0,89 m/s (175 ft/min) at 75 km/h (46,5 mph)
- 3. Circling at 85 100 km/h (53 62 mph)
- 4. Trim as necessary.

3.1.12 Descent

I. Gliding

- 1. Extend gear at a speed less than 130 km/h (81 mph).
 - (a) Unlock safety lock by pressing the small button and pull lever back.
 - (b) Push gear lever forward until it locks. If you can't reach to the front position push the gear lever with the right foot.
 - (c) Locking lever must be gone forward and locked.
 - (d) Green lamp lights when gear is extended and locked.

2. Use spoilers if necessary.

3. Speed 120 km/h (75 mph)

II. Powered Flight

1. Extend gear at a speed less than 130 km/h (81 mph)

2. Use spoiler if necessary.

3. Speed 120 - 150 km/h (75 - 93 mph)

4. Not less than 2500 rpm

5. Increase power from time to time to warm up the engine.

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3.1.13 Approach

Remark: With powered gliders usually one should approach and land with running engine to permit a baulked landing and overshoot if necessary (an aircraft on the runway, gliders on approach, etc.) If one approaches for exercise or precision landing, one should fly the whole approach with ignition ON. Then one can restart with one single action.

1. Optimal approach speed

in smooth air 90 km/h (50 mph) spoilers retracted 100 km/h (62 mph) spoilers extended

in rough air 10 km/h (6 mph) faster

- 2. Engine idling
- 3. Variable-pitch propeller in take-off position
- 4. Set the trim tab
- 5. Use spoiler as necessary and hold them.
- 6. Gear warning (yellow lamp and horn) operated, when with gear up spoiler are extended or throttle fully reduced.

3.1.14 Landing

- Landing is of the usual "three pointer" kind below 80 km/h (50 mph)
- 2. Extend spoiler completely after touch-down and hold the lever
- 3. Hold the control stick right back after touch-down
- 4. With little correction by the rudder hold the direction
- 5. Hold the wings horizontal
- 6. If necessary use the parking brake.

3.1.15 Stop engine

- 1. Throttle setting 1200 1500 rpm for about one minute.
- 2. Throttle closed
- 3. Radio OFF
- 4. Magneto switch OFF.
- 5. When engine stopped master-switch OFF

6. Fuel cock OFF (pulled)

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3.2 Emergency Procedures

- 3.2.1 Engine failure during take off
 - runway length sufficient:

fuel cock	OFF		
ignition	OFF		
spoiler	extended		
brake	operate		
stick	full backward		

- runway length too short:

same procedure, eventually retract landing gear or apply ground loop to avoid obstacles.

2.2	Engine failure	after	take	- of:	Ē
	fuel cock			OFF	
	ignition			OFF	
	make a glider	landir	DØ.		1

^{3.2.3} Engine failure in flight

same procedure as 3.2.2

3.2.4 In-flight engine fire

cabin heat fuel cock throttle

ignition landing gear OFF OFF

full power, to burn the fuel in the carburettor OFF, after engine has stopped When extended, to be retracted immediately. Select a suitable field for a direct forced landing with landing gear in the up-position. Side slip maneuvers may be used, as necessary to direct flames away from cabin area.

3.2.5 Landing gear extension failure

Gear operation is mechanical, therefore there is little chance of failure, except by mishandling (e.g. trying to extend gear without unlocking and thus damaging the control lever). In such a case unlock the locking lever and apply positive "g", if necessary several times, until the gear is heard to engage down and the green lamp lights. Stop engine before landing.



3.2.6 Field landing

Generally (except on very bad ground), landing gear and spoiler are to be extended.

On very bad ground, rough or marshy, keep landing gear retracted and make a very gentle landing.

If there is any doubt about the ground conditions extend the gear, but be prepared to retract the gear immediately - even just before touch down, - when ground looks bad, and "belly" on. On water keep gear retracted. Touch-down in nearly stalled condition, stick right back.

Experience shows that the aircraft suffers little damage from a belly landing when engine has been stopped prior to the landing and propellor positioned horizontal.

3.2.7 Emergency bail out

Both canopies can be jettisoned for an easier exit by parachute. Jettison by pushing down the emergency handle and opening the canopy lock, lift the canopy and push it back.

4. Performance

The performance given below is based on T.O. weight of 680 kg (1500 lbs), no wind and dry grass runway.

4.1 Take off distance

Sea-level, temperature + 15° C (see Appendix 3)				
distance of ground run 195 m	(640	ft)
distance to 15 m (50 ft) obstacle 497 m	(1	630	ft)
take - off speed 75 km/h (47 mph)				•
speed at passing 15 m (50 ft) obstacle 100 km/h (62	mph	1).	

4.2 Landing distance .

Sea-level, temperature + 15° C				
distance of ground run	204	m	(669 ft)
distance from passing 15 m (50 ft) obstacle	363	m	(1190 ft)
approach speed	90	km/h	(56 mp	h)

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4.3 Climbing speed

sea level, temperature +15°C
rate of climb (gear and spoiler retracted) 3 m/s (591 ft/min)
optimum airspeed 90 km/h (56 mph)
with variable-pitch propeller in take-off position
rate of climb is 3,5 m/s (687 ft/min) at airspeed of 95 km/h (59mph)

4.4 Climbing speed (balked landing)

sea level, temperature +15°C rate of climb, (gear extended, spoiler retracted) 2,2 m/s (434 ft/min) optimum airspeed 100 km/h (62 mph)

4.5	Stall	Engine stopped	Engine idling
,	stalling speed (gear and spoiler retracted)	68 km/h (42 mph)	70 km/h (43,5mph)
	stalling speed (gear and spoiler extended)	72 km/h (45 mph)	75 km/h (47 mph)

4.6 Operating range

At cruising speed 160 km/h (100 mph) and 1500 m (5000 ft) altitude the operating range is 420 km (260 st. M) without reserve)

4.7 Fuel consumption

4.3.1 with fixed-pitch propeller at 1500 m (5000 ft) altitude there is a fuel consumption of

speed	rpm	consumption	_
160 km/h 140 km/h		13 l/h (2,86 Imp. Gall/h) 11 l/h (2,42 Imp. Gall/h)	

4.7.2 with variable-pitch propeller

at 1500 m (5000 ft) altitude there is a fuel consumption of

speed	rpm	consumption	
180 km/h	3200	15 l/h (3,30 Imp. Gall/h)	
150 km/h	2800	13 l/h (2,86 Imp. Gall/h)	

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 	a	er stringer of	fuselage (c	cockpit frame	e) horizont	al (B1
Datum (BE):	section (Bp),	,	nt of leading centre line o		
Aircraft co	ndition:	without/with				ıt
		Equipment f	ollowing lis	t of <u>3-/8</u>	76	
Permissibl payload:	<u>.e</u>	1991	<u>}</u> kp			
Empty wei	ght C.G.:					
	gross weight - kp -	tare - kp -	net weight - kp -	distance - m -	moment -mkp-	
front				a =		
rear				b =		

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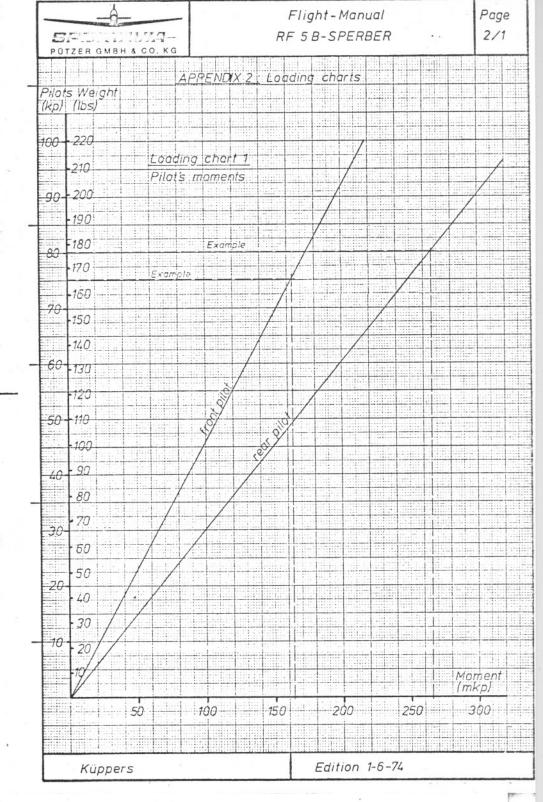
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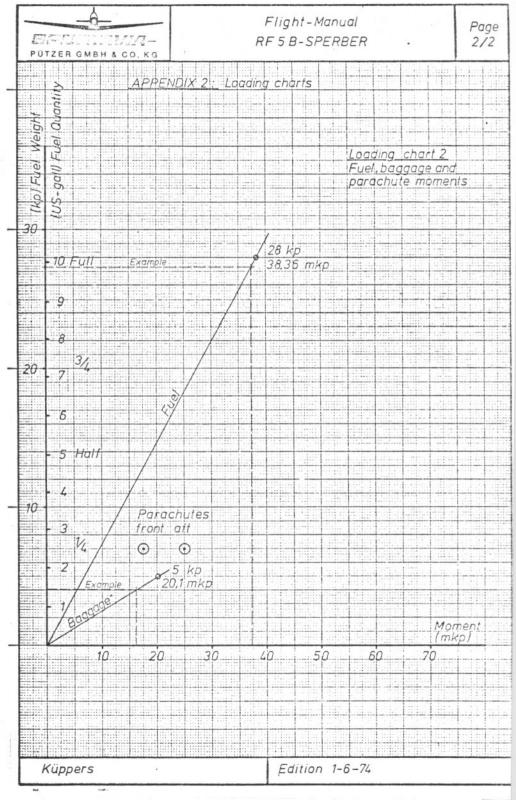
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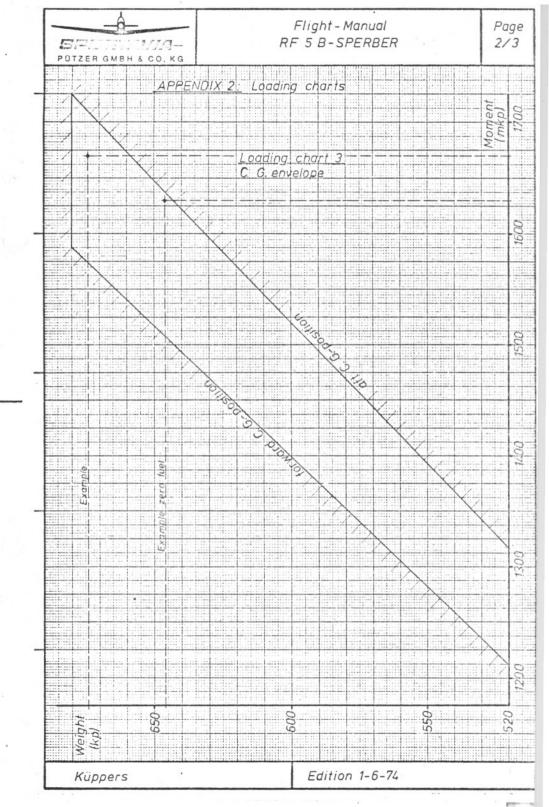
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APPENDIX 3: Take-off distance

At maximum allowable weight of 680 kp (1500 lbs), no wind and dry grass runway the following ground runs and take off distances apply for different airfield altitudes and temperatures:

Altitude ft over sealevel		run in erature 0 [°] C		+30 ⁰ C		off distant n ft at te 0 [°] C	emp. +15°C	+30 ⁰ C
0	575	607	640	676	1467	1550	1630	1713
660	588	620	656	692	1500	1585	1673	1755
1320	600	634	670	708	1535	1625	1715	1800
1980	613	650	686	728 .	1570	1665	1750	1840
2640	626	666	702	742	1605	1700	1790	1887

These values are based on a good maintenance of the aircraft and a normal flight experience of the pilot.

For the aircraft equipped with the variable-pitch propeller HO-V 62 R following table is applicable (same conditions as before):

Altitude ft over	Cround run in ft at temperatures of					nce over n ft at ten	np.	
sealevel	-15° C	0°C	+15°C	+30 ^o C	-15°C	0°C	+15°C	+30°C
0	560	592	625	658	1011	1069	1280	1187
650	574	607	640	673	1036	1095	1156	1216
1300	587	622	656	690	1060	. 1122	1183	1245
2000	602	637	672	707	1087	1150	1213	1276
2600	617	652	688	724	1114	1177	1242	1307

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APPENDIX 4: Variable-pitch propeller HO - V 62 R

General

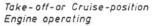
1.

The variable pitch propeller HO - V 62 R allows to fly with 3 different pitch-positions:

- a) Take-off-position
- b) Cruise-position
- c) Feathered position

The switching is done by means of a lever, which is positioned in front of the panel in the front seat.







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Feathered Position Engine stopped

The change "Take-off-position" into "Cruise-position" and "Cruise-position" to "Take-off-position" can be made while the engine is operating.

The change "Take-off-position" into "Feathered position", "Cruise-position" into "Feathered position" and vice-versa is only permitted with engine stopped.

- 2. Operating instructions
- 2.1 Starting the engine

Before starting the engine check if the propeller is in the take - off-position.

Take-off-position can be achieved by

- a) switching the lever from left (feathered position) to right (take-off-position) or,
- b) if the lever is already in the right position and possibly the cruise-position is engaged, by a short pull ($\approx 2"$) at the actuator-lever.

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2.2 Run up

Warming up the engine is done in the same manner as with fixed-pitch-propeller.

The run-up-check, with the brake set, should show 2800 rpm as minimum.

If the run-up shows significantly less than 2800 rpm, it is possible, that the propeller is still in the cruise-position.

Remedy: Switch to take-off-position (see 2.5)

2.3 Take-off and climb

For take-off and climb the take-off-position must be used.

2.4 Cruise-position

For switching into cruise-position reduce power setting to 2200 rpm and give a short pull (appr. 2^{11}) at the actuator lever. The loss in rpm with the same throttle position must be appr. 500 rpm.

2.5 Switching back to take-off-position

For the use of full climbing power and for the landing approach the propeller must be in take-off-position.

This is done according to 2.1 with engine stopped or with engine operating by reducing power setting to about 1000 rpm and then giving a short pull ($\sim 2^{"}$) at the actuator lever. The lever must be released slowly.

For checking Take-off-position apply full throttle. At normal approach speed engine-rpm should be at least 3100 rpm.

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2.6 Feathered position

It is only permitted to switch into "feathered-position" with engine stopped.

Switching into "feathered-position" is done by pulling the lever fully from right to left.

3. Check

3.1 Daily, before first flight

Check fixture of propeller blades, no play at the tips. Angular play up to 1° is permitted. The whole mechanism must work easily. Shift bow, roller bearing, pressure plate and bowdencable are to be checked.

3.2 Periodical checks and maintenance

For instructions see Manual for Operation and Maintenance of HO - V 62 R propeller, edition April 1974.

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