

Sonaca S201



SPHAIR

Summary of All

Checks and Procedures

Checklist – Revision 1.9

Procedure – Revision 1.16

08.03.2024

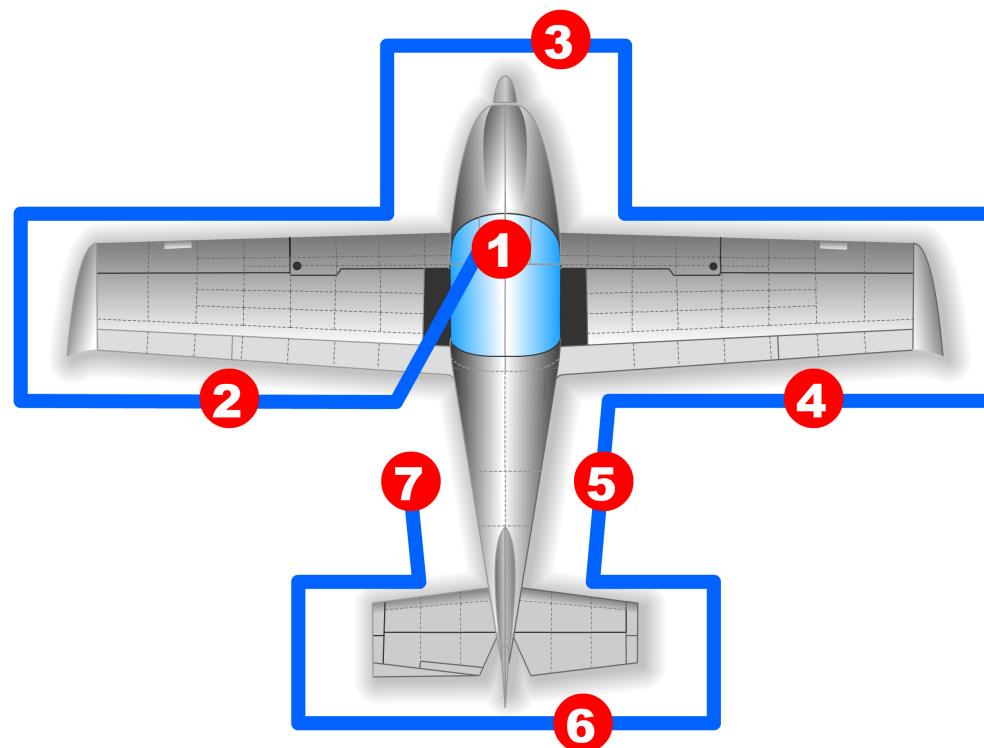
Introduction

This document serves as a guide for learning checks and procedures and provides additional information where necessary to adapt the checks and procedures to the training aircraft "Sonaca 201". In no way does it replace the Airplane Flight Manual or the SPHAIIR folder "Basics and Procedures". On the contrary, the documents mentioned serve as a basis for this document.

WALK AROUND

1 - COCKPIT

Ignition	off
Fuel selector valve	switch to left or right tank
Master switches	on
Fuel level indicator	verify fuel quantity
Fuel selector valve	switch to fullest tank
Internal Lights	on - Check inside - off
Taxi Light	on - Check outside - off
Landing Light	on - Check outside - off
Navigation Lights	on - Check outside - off
Strobe lights	on - Check outside - off
Flaps	move to LD setting
Master switches	off
Avionics	verify condition
Control System	visual inspection free, movement up to stops, no abnormal play in stick
Brakes	push on both pedals and engage, parking brake, check for no leaks in the cockpit
Canopy	attachment condition clean
Cockpit	check for loose objects
Fire extinguisher	verify presence, correct support, attachment safety pin in place and, pressure in green range
Hammer	verify presence and correct attachment
First Aid Kit	on board
Documentation	verify presence of last approved version of applicable documents
Hold Item List (HIL)	Check for entries and No-go items



2 - LEFT WING AND MAIN GEAR

Chocks ropes	remove
Wheel fairing	check attachments and no cracks
Wheel and brakes.....	check fluid leaks tire inflation and wear
Wheel strut	general condition no cracks
Wing trailing edge	check condition
Aileron	check freedom of movement, check surface condition
Aileron attachments and hinges, control horn bolts pushrod	check free motion and condition
Flap hinges, control horn, bolts, and pushrod	check free motion and condition
Wing tip	check condition
Strobe/Nav light	check for condition
Pitot tube	security unobstructed remove cover
Leading edge condition	check ok (no deformations no cracks)
Taxi/landing lights	check for cracks and condition
Fuel level	open fuel cap and check fuel level
Fuel vent	unobstructed
Access Hatches	present and properly closed
Fuel drain	drain for minimum 2 sec

3 - NOSE SECTION AND NOSE GEAR

Cowling access doors (LH then RH)	rotate fasteners to open
through LH access door:	
- Visual inspection of fuel system.....	general check and no leaks
- Visual inspection of electrical system	general check
- Carburettor control cables	check throttle and chock, cables securely tightened
- Engine mount and exhaust manifold condition	check
- Exhaust manifold condition	check
- Check for visible oil leaks	
Engine cowling condition	check
Propeller and spinner condition	check
Radiators and circuits (oil/water)	check for leaks or dirt
Air intakes	check
Gascolator	drain

Through RH access door:

Repeat same checks as for LH door, plus

- Coolant overflow bottle check level in the overflow bottle replenish as required
- Open oil tank..... Slowly rotate propeller in normal engine direction until gurgling noise is heard. always handle the propeller blade area with the palm of the hand, do not grasp only the blade edge with your fingers. make sure no resistance point other than engine compression are observed during rotation. Check Oil level above 50% before long flight, replenish as required. Do not exceed the max, level.
- Oil tank close with cap
- Close access doors (LH then RH)..... rotate fasteners in airstream direction to close, Check secured
- Tire condition inflation wear
- Wheels..... security, general condition
- Wheel fairing check attachments and no cracks
- Wheel strut general condition, no cracks
- Chocks and tie-down ropes remove
- Suspension & undercarriage test by gently pulling downward on propeller blades root

4 - RIGHT WING AND MAIN GEAR

- Leading edge condition..... check ok (no deformations, no cracks)
- Fuel drain drain for min 2 sec
- Fuel level open fuel cap and check fuel level
- Fuel vent (underside of wing) unobstructed
- Access Hatches present and properly closed
- Stall Warning Device check Ok (free tab movement)
- Taxi/ landing lights and lens check for cracks and condition
- Wing tip check condition
- Strobe/nav light and lens..... check for condition
- Wing trailing edge..... check condition
- Aileron check freedom of movement, check surface condition
- Aileron attachments & hinges, control horn, bolts, pushrod check free motion and condition
- Flap hinges control horn bolts, and pushrod check free motion and condition

Chocks ropes.....	Remove
Wheel fairing	check attachments and no cracks
Wheel and brakes	check fluid leaks, tire inflation and wear
Wheel strut	general condition, no cracks

5 - RIGHT FUSELAGE

Access Hatches (underside of cabin)	present and properly closed
Surface condition	check
Wing/fuselage fairings.....	check
Access doors under rear fuselage	closed
Static Port	unobstructed and clean
Antenna/e.....	check condition and attachments
Empennage fairing.....	check

6 - EMPENNAGE

Tie-down rope.....	removed
Antenna/e.....	check condition and attachments
Horizontal and vertical stabilizers.....	check condition
Hinges, control horns, bolts, pushrods	check free motion and condition
Elevator.....	check for free movement and condition
Tab	check for secure attachment and condition
Rudder	check for secure attachment and condition

7 - LEFT FUSELAGE

Empennage fairings.....	check
Surface condition	check
Antenna/e	check condition and attachments
Access doors under rear fuselage	close
Static Port.....	unobstructed and clean
Wing/fuselage fairings	check
Ground Power Supply	unplugged

COCKPIT LAYOUT



- | | | | | |
|----|----------------------------|----------------------------------------------------------------------|----|------------------------------------------------------|
| 1 | BATT Switch | Battery power supply (Master Switch) | 11 | Equipment switches (from left to right) |
| | ALT 2 Switch | ALT 2 power supply (Master Switch) | | - TCU: Freeze the turbo waste gate position when off |
| 2 | Start Button | Engage starter motor | | - AVI 1: Audio Panel and GPS |
| 3 | Ignition Key | Disconnect Ignition | | - AVI 2: COM2 and Backup Instrument |
| 4 | PFD | Garmin G500 TX –Primary Flight Display | | - Instrument lights |
| 5 | Audio Panel | Garmin GMA345 – Distribute audio to crew | | - Anti-collision lights |
| 6 | GPS | Garmin GTN 650 – GPS Navigator with integrated Radio and Transponder | | - Navigation lights |
| 7 | COM2 | Garmin GNC 255A – 2nd COM / NAV radio | | - Landing light |
| 8 | EMS | JPI EDM900 Engine Monitoring System (EMS) | | - Taxi light |
| 9 | Warning lights | Alternator and engine warning lights | | - Aux fuel pump |
| 10 | Backup Instrument | Backup Flight Instrument with ASI, AI, Alt | 12 | Panel dimmer |
| 13 | Flap pos. indicator (left) | UP, T/O, APP, LD | 14 | Choke |
| | Flap selector (right) | from top to bottom: UP, T/O, APP, LD | 15 | Carburettor heater |
| | | | 16 | Circuit breaker board |
| | | | 17 | Cabin heat system |
| | | | 18 | Aux 12V Plug |

Check / Procedure	Wording	Remark
PREFLIGHT CHECK (AFM 4.4.2) [GuV 2.5.1]		
1 Outside check.....COMPLETED
2 Aircraft papers .....CHECKED
3 Aircraft log .....CHECKED
4 Tow bar .....REMOVED & SECURED
5 Cabin .....CHECKED
6 Loadsheet .....WITHIN LIMITS
PREFLIGHT CHECK COMPLETED		
CHECK BEFORE ENGINE START (AFM 4.4.3) [GuV 2.5.1]		
1 Seats.....ADJUSTED & LOCKED
2 Parking brake .....SET.....	securely lock into position after adjustment
3 Seat belts & harness .....FASTENED.....	press on brake pedals while setting brake
4 Circuit breakers.....CHECKED
5 Equipment switches.....OFF, EXCEPT TCU.....
6 Battery & alternator 2.....ON,TCU&RAL CHECKED.....
7 Annunciator lights.....TEST.....	When switching on Battery, TCU and RAL will illuminate for a short period of time while performing a self-test
8 EMS .....ON AND READY
9 Fuel quantity .....L+R, ENDURANCE
10 Fuel selector.....FULLER TANK
11 PFD & Backup instr.....ON, PRESS CONTINUE
12 Throttle .....FREE MOVEMENT/IDLE	Press continue on PFD and Backup instrument.....
13 Canopy .....CLOSED & LOCKED.....
CHECK BEFORE ENGINE START COMPLETED		

Check / Procedure	Wording	Remark
ENGINE START (AFM 4.4.4) [GuV 2.5.2]		
1 Nav lights ON.....
2 Ignition key INSERT
3 Choke pull for cold start	Pull if engine at ambient temperature
4 Throttle idle / 1 cm.....	idle if choke is used, else 1 cm forward
5 Aux. fuel Pump..... ON.....
6 Ignition switch ON (BOTH)
7 Propeller area CLEAR.....
8 Starter ENGAGE, (max 10")	engage for max 10 sec, then wait for 2 min
9 Throttle SET 2000 RPM.....
10 Oil pressure CHECKED.....	green range within 10 "
ENGINE START COMPLETED		

CHECK AFTER ENGINE START (AFM 4.4.4) [GuV 2.5.3]		
1 EMS BATTERY CHARGING .....	.....	.....
2 Aux. fuel Pump..... OFF.....	.....	.....
3 Avionics switch 1 & 2 ON (check ATIS) .....	.....	.....
4 Vent, Heater, Defroster..... AS REQUIRED .....	.....	.....
5 Fuel selector..... SWITCH TANK .....	.....	.....
6 Flaps UP .....	.....	switch to check fuel supply from 2. tank
7 Flight instr. & Avionics SET & CHECKED.....	.....	.....
	Airspeed 0, .....	.....
	Attitude Indicator erected and stable .....	.....
	Altimeter QNH SET,	Compare ALT reading and airport elev.
	Heading similar to Magnetic Compass .....	.....
	Avionics all frequencies checked and set .....	.....
8 Engine instruments CHECKED.....	Transponder set on ALT .....	.....
CHECK AFTER ENGINE START COMPLETED		

Alternator 1 does not charge the battery below 3000 RPM. ALT 2 Master Switch must be on during warm-up and taxiing to ensure positive charge and prevent battery depletion.

Check / Procedure	Wording	Remark
TAXI (AFM 4.5.5) [GuV 5.3.3, 5.3.4]		
*TIME .....NOTE	Say minutes (for example: Time 38)	Note "Off Block Time"
Taxi area CLEAR	Taxi Area clear .....	.....
Taxi light ON	Taxi Light ON .....	.....
Power 2000 RPM	Power 2000 RPM .....	.....
Parking brake RELEASED	Parking Brake released .....	.....



Check / Procedure	Wording	Remark
Brakes and steering .....CHECKED	Brakes checked	press on brake pedals while releasing brake
Flight instruments .....CHECKED	Steering checked	Check function of brakes
	Attitude indicator .....erected and stable	Check function of steering
	Heading indicator .....decreasing/increasing	Check instruments during turns



CAUTION

*Taxi with reduced speed on soft grass or uneven airfields to avoid propeller ground strike.
 When taxiing over taxiway or runway edges, such transitions are taxied over at an angle of 45 degrees.
 The control stick must be pulled all the way to the back.*

TAXI CHECK (AFM 4.4.5) [GuV 5.3.5]

1 Brakes and Steering CHECKED	Brakes and Steering CHECKED .....	.....
2 Flight instruments CHECKED	Flight Instruments CHECKED .....	.....

Check / Procedure	Wording	Remark
STOP TAXI (AFM 4.4.5) [GuV 5.3.3]		
Parking brake..... SET	Parking Brake SET	press on brake pedals while setting brake
Power 2000 RPM	Power 2000 RPM .....	.....
Taxi light OFF	Taxi Light OFF .....	.....



CAUTION

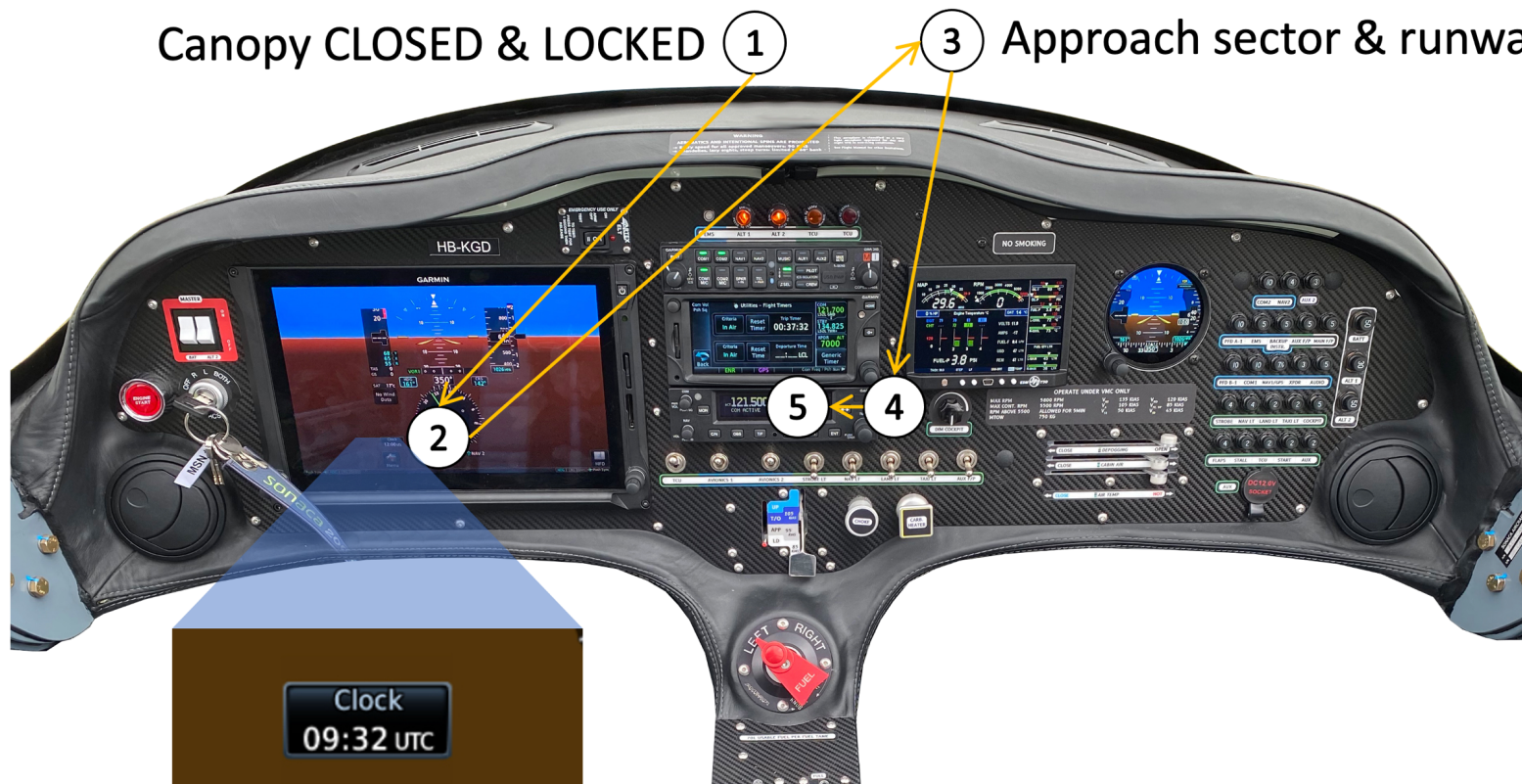
Failing to apply pressure on brake pedals while releasing the parking brake valve might result in calipers sticking and brakes overheat. Always apply pressure before and during releasing the valve.

Check / Procedure	Wording	Remark
RUNUP (AFM 4.4.6) [GuV 2.6.6]		
1 Parking brake SET	Parking Brake SET.....	press on brake pedals while setting brake
2 Warm up OIL TEMP > 50°C	Warm up Oil temperature above 50°.....	.....
3 Zone behind aircraft CLEAR.....	Zone behind aircraft CLEAR .....	.....
4 Fuel selector FULLER TANK	Fuel selector FULLER TANK .....	.....
5 Aux. fuel Pump..... ON.....	Auxiliary fuel pump ON .....	.....
6 Throttle SET 4000 RPM.....	Throttle 4000 RPM .....	.....
7 Magnetos (L-B-R-L-B) CHECKED	Magnetos Left drop xxx RPM Both Right drop xxx RPM Left difference xxx RPM..... Both drop and difference within limits	(max. -500 / diff. <150 RPM).....
8 Aux. Fuel Pump OFF, PRESS CKD, ON	Aux. Fuel pump off, Fuel pressure stable, Aux Fuel pump ON	Aux. Pump OFF, check pressure,..... Aux pump ON.....
9 Throttle MAX CONT. POWER.....	Throttle max. cont. power min 4700 RPM	Power > 4700 RPM
10 Throttle FULL PWR, > 5200 RPM	Throttle full power min 5200 RPM.....	.....
11 Engine instruments CHECKED.....	Engine instrument all green arc	All instruments within green ranges.....
12 Throttle idle CHECKED (< 1900 RPM)	Throttle idle, RPM maximum 1900 RPM .....	.....
13 Throttle SET 2000 RPM.....	Throttle 2000 RPM .....	.....
RUNUP COMPLETED		
Departure Briefing [GuV 12.2.1]		
	Rwy.....	say departure RWY
	Routing / Altitudes	describe outbound route
	Speeds.....	look at the airspeed indicator during this point
	.....	describe actions for:
	Abnormal situations / Emergency.....	any failure on ground
	.....	engine failure below 1000ft/AGL
	.....	engine failure above 1000ft/AGL

CHECK BEFORE DEPARTURE (AFM 4.4.7) [GuV 12.2.3]		
1	Aux. Fuel Pump ON.....	.....
2	Fuel quantity L+R, ENDURANCE.....	.....
3	Fuel selector FULLER TANK	Left tank ... / right tank ... / Endurance
4	Ignition BOTH.....	Fuel selector left / right.....
5	Trim SET FOR DEPARTURE .....	.....
6	Flaps T/O.....	Elevator trim SET for Take-off
7	Avionics SET FOR DEPARTURE	Flaps SET for Take-off
8	Seat position CHECKED & LOCKED .....	.....
9	Cabin and pax SECURED .....	.....
10	Flight controls FREE & CORRECT.....	.....
11	Departure briefing COMPLETED.....	Left up, rear up, right up, rear down.....
CHECK BEFORE DEPARTURE COMPLETED		

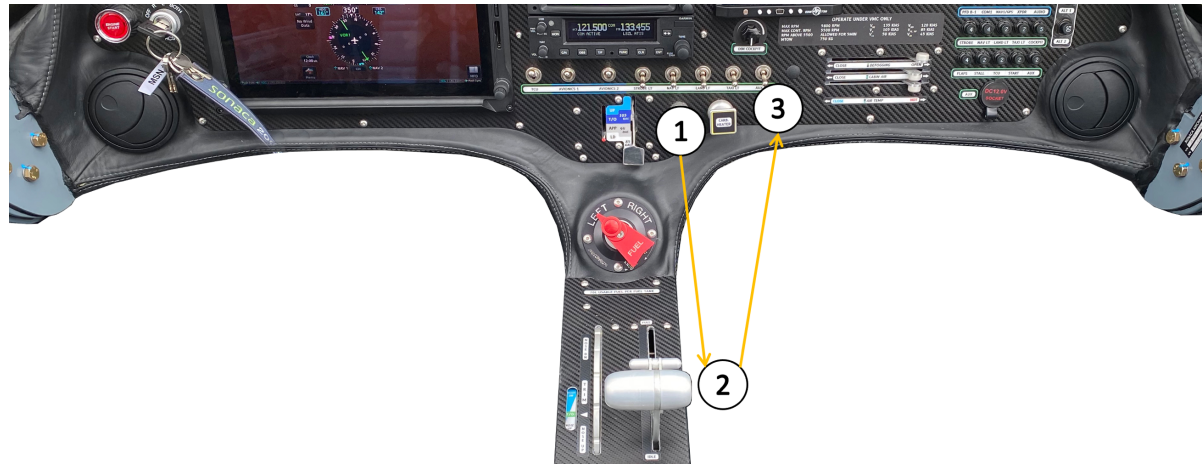
Check / Procedure	Wording	Remark
LINE UP CHECK [GuV 12.3.1]		perform line up check when departure clearance has been received
1 Canopy	CLOSED & LOCKED .....	.....
2 Time	NOTED .....	.....
3 Approach sector & rwy	CLEAR.....	.....
4 Landing light.....	ON .....	.....
5 Strobe lights.....	ON .....	.....
LINE UP CHECK COMPLETED		

Canopy CLOSED & LOCKED ① ③ Approach sector & runway CLEAR



Check / Procedure	Wording	Remark
Runway identification [GuV 12.3.3] RUNWAY (L/R, CONCRETE / GRASS) IDENTIFIED	Runway XX identified .....	.....
RWY / Heading comparison [GuV 12.3.4] RUNWAY AND HEADING COMPARED	.....	Tolerance +- 5°
Wind check [12.3.5] WIND	Wind: Headwind, Wind from the left/right.....	.....
Visual Reference Point (VRP) [GuV 12.3.6] Visual Reference Point .....	.....	.....
Static Take-off (AFM 4.4.8) [GuV 12.4.1] Brakes SET POWER - SET (max. continuous power) Brakes RELEASED AND FREE	On brakes, MAX CONT PWR SET Power MIN 4700 RPM Brakes released and free .....	..... Verify minimum 4700 RPM.....
Acceleration check (AFM 4.4.8) [GuV 12.4.2] Airspeed RISING Power T/O Power V _{ROTATE} [12.4.5] ROTATE	Airspeed rising T/O PWR SET ROTATE .....	..... when airspeed active, set full power Verify minimum 5000 RPM.....
Clean configuration (AFM 4.4.8) [GuV 12.5.2] Speed above 65 KIAS FLAPS UP Best rate of climb speed 68 KIAS Maximum Continuous Power 5500 RPM Trim ADJUST	Clear of obstacles Speed above 65, Flaps up Maximum continuous power set	at 300ft/AGL Reduce throttle from Full Power to Maximum Continuous Power

Check / Procedure	Wording	Remark
CLIMB CHECK [GuV 12.5.5]		
1 Flaps UP	Flaps up .....	.....
2 Climb power SET	Climb power set.....	Set maximum continuous power.....
3 Aux. fuel pump OFF,PRESS. CHKD.....	Auxiliary fuel pump off, fuel pressure green arc.....	Check fuel pressure is stable
CLIMB CHECK COMPLETED		



LEVEL-OFF [7.4.2]	approaching XXXX ft	Call out 200ft before reaching level.....
ATTITUDE..... SET	Attitude, accelerate to min 85 .....	.....
POWER SET	Power 5000 RPM	accelerate > 85 kt before reducing power
TRIM SET	Trim.....	.....
LANDING LIGHT - AS REQUIRED	.....	remains ON

Check / Procedure	Wording	Remark
CRUISE CHECK [GuV 18.5.1]		
1 Altimeter..... CHECKED (STD/QNH) .....	.....	.....
2 Cruise power..... SET .....	.....	.....
3 Engine instruments..... CHECKED.....	.....	.....
4 Fuel quantity..... L+R, ENDURANCE.....	.....	.....
5 Fuel selector..... AS REQUIRED .....	.....	.....
CRUISE CHECK COMPLETED		
ATIS / AD information**	.....	monitor ATIS and note important
	.....	Information
	
Approach Briefing [GuV 13.2.11]	Aerodrome elevation .....	.....
	RWY in use .....	.....
	Routing & Altitudes .....	.....
	Approach speeds V _{INIT} , V _{INTER} , V _{FINAL}.....	.....
	Missed approach procedure .....	.....
	Alternate airport .....	.....
DESCENT CHECK [GuV 18.5.9]		
1 ATIS or AD information..... NOTED	ATIS Information X is current	X = actual ATIS received
2 Approach briefing..... COMPLETED	Approach Briefing completed	Confirm completion of the briefing
3 Avionics..... SET & CHECKED	Avionics: Active frq xxxx, Sby frq xxxxx	Set radio frequencies for approach
4 Circuit breakers..... ALL IN	Circuit breakers all in .....	.....
5 Cabin & pax..... SECURED.....	Seat belts.....fastened	.....
	Cabin secured	.....
DESCENT CHECK COMPLETED		

Check / Procedure	Wording	Remark
DESCENT [GuV 8.2.4] LOOKOUT ATTITUDE.....FOR DESCENT ENGINE POWER ADJUST TRIM ADJUST	Airspace below clear Attitude for descent Power set 4500 RPM (Power 5000 RPM for cruise descent) Trim.....	..... ..... Normal descent: adjust to 4500 RPM Cruise descent: 5000 RPM
LEVEL-OFF FROM DESCENT [GuV 8.6] POWER SET ATTITUDE..... SET TRIM SET	Approaching XXXX ft Power set 5000 RPM (4700 RPM in Downwind) Attitude set Trim set	Call out 200ft before reaching level.....
APPROACH CHECK [GuV 13.2.10] 1 Altimeter QNH SET..... 2 Aux. Fuel Pump ON, PRESS CHECKED 3 Fuel quantity L+R, ENDURANCE..... 4 Fuel selector..... FULLER TANK APPROACH CHECK COMPLETED	..... ..... ..... .....	..... ..... ..... .....

Check / Procedure	Wording	Remark
INITIAL APPROACH CONFIG. [GuV 13.3.6] POWER REDUCED SPEED.....REDUCE TO V _{INIT APP} Flaps UP	Power set 4700 RPM	Entering Downwind initially 4700 RPM Speed 85 KIAS
LATEST ABEAM THRESHOLD [GuV 13.3.7] SPEED.....CHECKED FLAPS .....SET FOR APPROACH	..... Speed below 105 Flaps T/O .....	..... ..... Adjust PWR to maintain V _{INIT APP} Flaps T/O 80 KIAS
STARTING FINAL DESCENT [GuV 13.4.2, 13.4.3] POWER 3500 RPM SPEED.....CHECKED FLAPS .....SET FOR APPORACH SPEED.....REDUCE TO V _{INTERM APP} TRIM .....ADJUST ABOVE / ON / BELOW GLIDE	Approaching glide Speed below 95 Flaps APP Start descent..... Trim..... ..... ..... ..... .....	..... Reduce PWR to 3500 RPM Adjust attitude to maintain 75 KIAS Adjust attitude to maintain glide,..... Adjust PWR to maintain 75 KIAS
LANDING CONFIGURATION [GuV 13.5.1] SPEED CHECKED.....FLAPS SET FOR FINAL APP. Earliest on final V _{FINAL} +Wind correction SET	Speed below 85, Flaps LD	Adjust PWR to maintains speed..... reduce speed after final turn.....

Check / Procedure	Wording	Remark
<p>LANDING CHECK (AFM 4.4.13) [GuV 13.5.2]</p> <p>1 Flaps SET FOR LDG</p> <p>LANDING CHECK COMPLETED</p>	<p>Flaps set for Landing.....</p>	<p>.....</p>

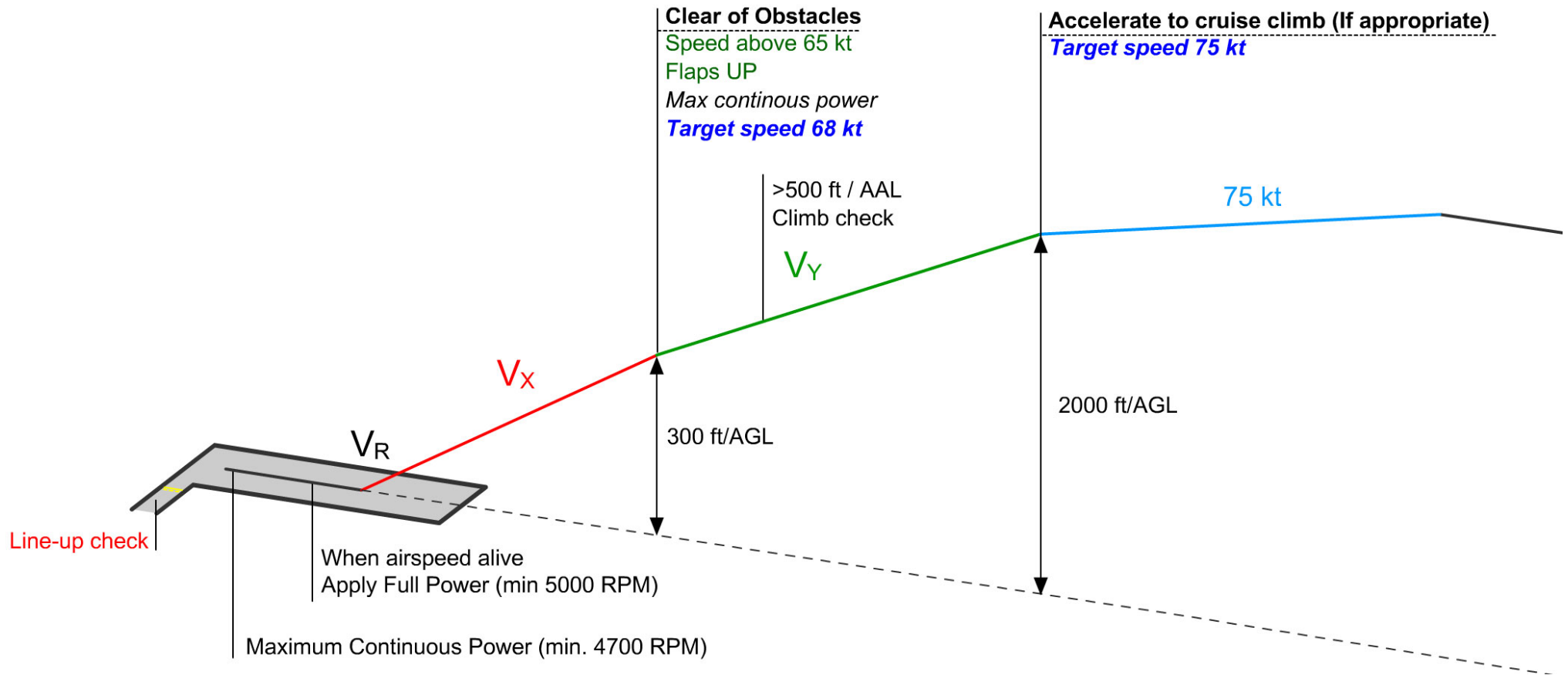


Check / Procedure	Wording	Remark
AFTER LANDING CHECK (AFM 4.4.16)		
[GuV 5.3.7 / 13.7.6]		
1 Aux fuel pump..... OFF
2 Landing Light..... OFF
3 Strobe light..... OFF
4 Flaps..... UP
5 Time..... NOTED
LANDING CHECK COMPLETED		

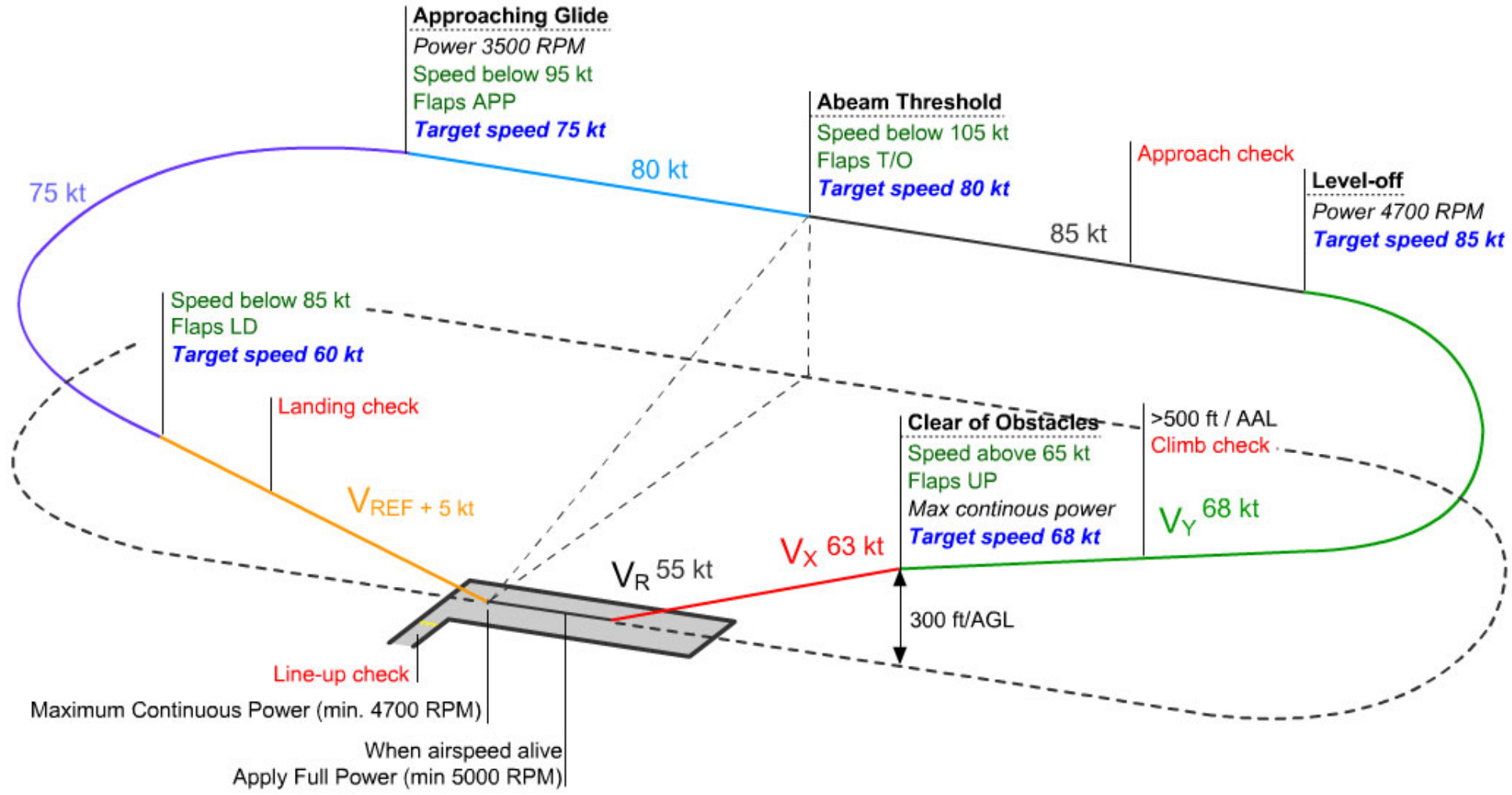


Check / Procedure	Wording	Remark
ENGINE SHUTDOWN AND PARKING (AFM 4.4.17) [GuV 2.5.7]		
1 Parking brake SET
2 Throttle IDLE
3 121.500 CHECKED
4 Avionics 1 & 2 OFF
5 Equipment switches OFF, EXCEPT TCU
6 Flaps LD
7 Ignition (after 2 min) R, aft 10" OFF, key
8 Battery & alternator 2 OFF	Remove key after shutdown.....
9 Backup instrument OFF
10 Parking brake AS REQUIRED
11 Flight data NOTED
12 Aircraft TO BE SECURED.....
PARKING CHECK COMPLETED	Secure the aircraft with chocks if necessary.....

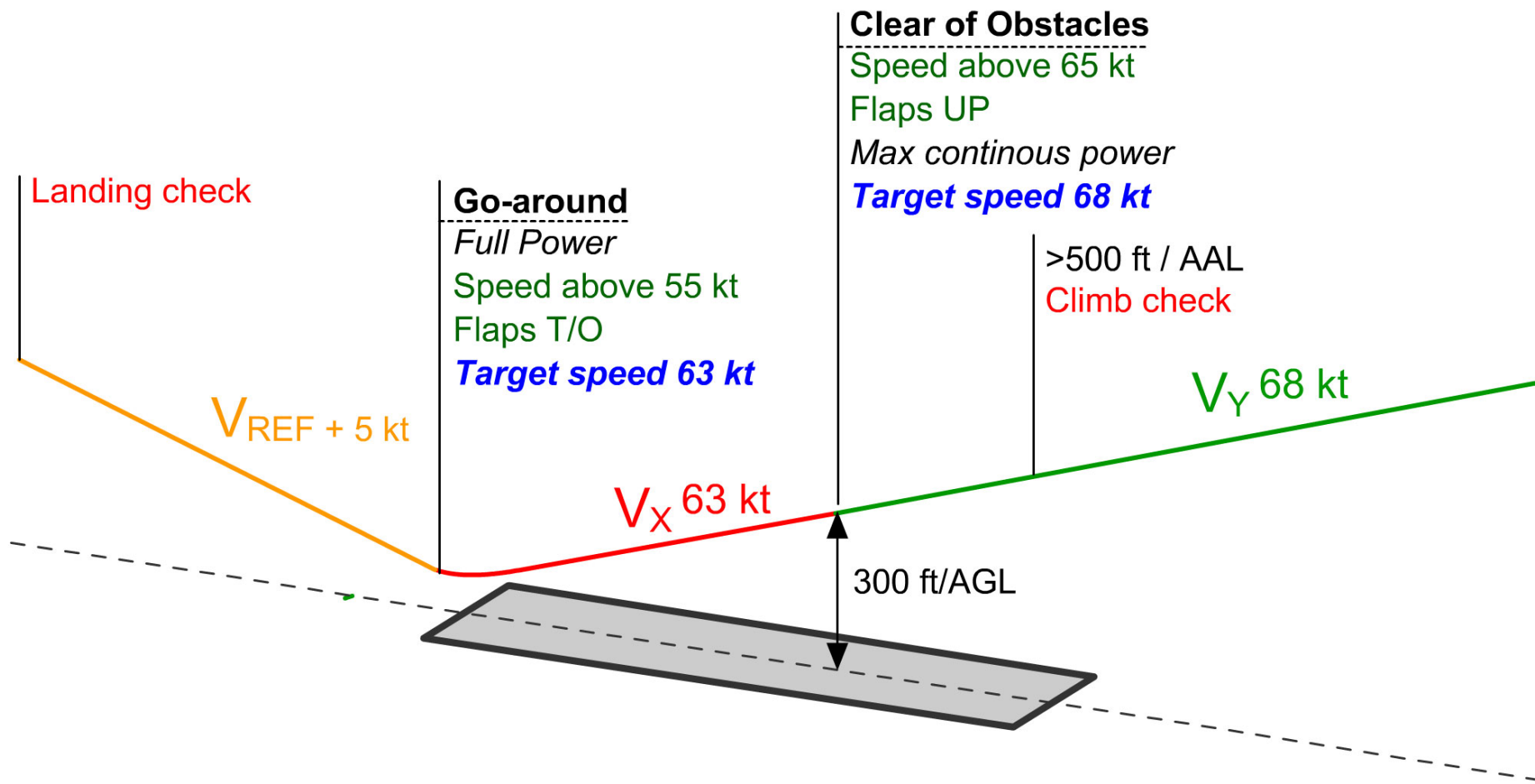
Climb Profile



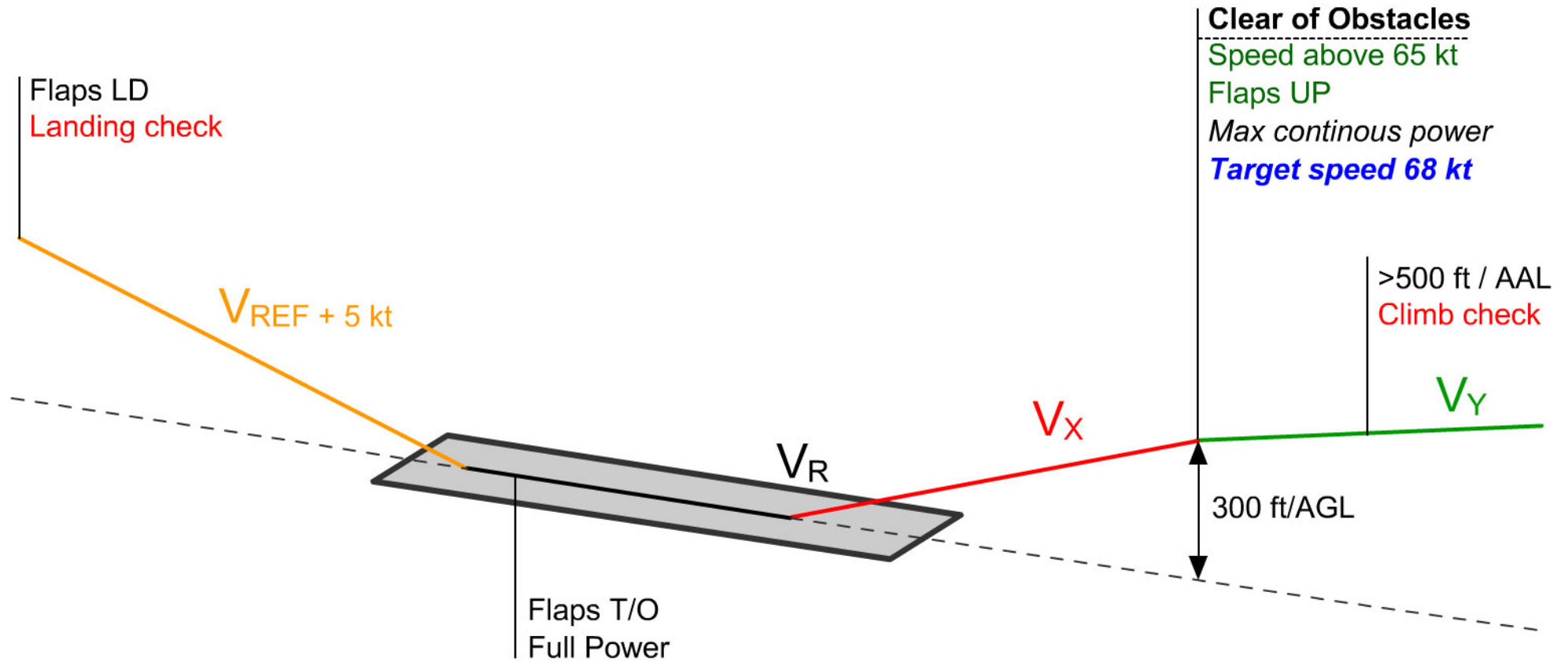
Traffic Pattern (Circuit)



Go-Around Procedure



Touch-and-Go Procedure



Cruise Speeds

Data provided for ISA condition

ISA	ISA T°	RPM	IASa	TAS	Cons.	Range 140l - 45min
[ft]	°C	[min-1]	[kt]	[kt]	[l/h]	Nmi
2000	11	4500	84	89	21	533
		4800	93	97	25	479
		5000	98	102	27	450
		5500	112	115	34	393
4000	7	4500	84	92	19	619
		4800	93	100	23	546
		5000	98	105	25	508
		5500	112	118	31	437
6000	3	4500	84	95	17	727
		4800	93	103	20	628
		5000	98	108	23	578
		5500	112	122	29	488
8000	-1	4500	84	97	15	868
		4800	93	106	18	729
		5000	98	112	21	664
		5500	112	126	27	548
10000	-5	4500	84	101	12	1058
		4800	93	110	16	859
		5000	98	115	19	769
		5500	112	130	25	620

*add or subtract 500ft on altitude for each 5°C above or below ISA T°

Vital Speeds

V _{ROTATE}	55 KIAS
V _{X, 10°}	63 KIAS
V _{Y, 10°}	63 KIAS
V _{X, 0°}	65 KIAS
V _{Y, 0°}	68 KIAS
V _{Cruise Climb}	75 KIAS
V _{A (maneuvering speed)}	105 KIAS
V _{best glide angle}	65 KIAS
V _{initial approach}	85 / 80 KIAS
V _{FE 10° (flaps T/O)}	105 KIAS
V _{FE 20° (flaps APP)}	95 KIAS
V _{FE 30° (flaps LD)}	85 KIAS
V _{REF (flaps LD setting)}	55 KIAS
Demonstrated Crosswind component.....	19 kt

Approach speeds for different Flaps settings

Flap setting	UP	T/O	APP	LD
V _{FE} [KIAS]	N/A	105	95	85
Approach speed [KIAS] (V _{REF} + 5)	70	68	62	60
Landing distance [m] (15m obstacle)	585	560	495	475
Landing run [m]	305	285	245	225

Change Log

Date	Version	Procedure / Check	Description	Page
26.02.2021	1.0	All	Initial issue	All
22.03.2021	1.1	Profiles	Changes "Final check" in "Landing check"	16-18
		Titles of Checks & Procedures	Added reference to GuV	15
23.03.2021	1.2	Clean configuration	Added Power Setting	11
05.04.2021	1.3	Taxi procedure	Wording changed to "Heading indicator"	8
05.04.2021	1.3	Descent	Power setting for descent	13
16.04.2021	1.4	Check before engine start	Corrections according SPHAIR Checklist	6, 10, 15
		Engine start		
		Check after engine start		
		Check before departure		
		Engine shutdown and parking		
29.05.2021	1.5	Taxi check	Wording removed	9
		Power Setting Downwind	Changed power setting to 4700 RPM	17
05.07.2021	1.6	Engine Start	Wording corrected	7
		Replaced Climb Profile	Corrected climb speed	16
		Replaced Circuit	Approaching Glide changed order	17
05.07.2021	1.7	Climb Check	Added "FUEL PRESSURE CHECKED"	12
23.10.2021	1.8	Several checks and procedures	Added Cockpit Pictures	
			Changed Initial Approach Speed	
19.01.2022	1.9	Stop taxi	Corrected wording	10
		Speeds	Added V cruise climb	26
		Several checks and procedures	Aligned text	Several
		Check Before Engine Start	Added checkpoint "Equipment switches"	6
		Engine Shut Down And Parking	Added checkpoint "Equipment switches"	21
28.04.2022	1.10	Check Before Departure	Error corrected	12
01.06.2022	1.11	Check after Engine Start	Added Avionics and Transponder check	7
		Line-up Check	Removed Transponder	13
12.11.2022	1.12	Several	Added Wordings	Several
04.01.2023	1.13	Flight Profiles	Replaced	Several
13.02.2023	1.14	All checks	Carburettor removed	Several
08.10.2023	1.15	Several	Added black line for by Heart Items	Several
08.03.2024	1.16	Several	Wording	Several

