

PREFLIGHT CHECK

1 Aircraft log and papers	CHECKED	1
2 Cabin	CHECKED	2
3 Fuel quantity	ENDURANCE	3
4 Fuel drain	NO WATER	4
5 Engine oil	CHECKED	5
6 Outside check	COMPLETED ACC. AFM	6
7 Tie-down and tow-bar	DISCONNECT / REMOVED	7
8 Load sheet	WITHIN LIMITS	8

PREFLIGHT CHECK COMPLETED**CHECK BEFORE ENGINE START**

1 Seats	ADJUSTED	1
2 Seat belts and harness	FASTENED	2
3 Parking brake	SET	3
4 Electrical switches (lower left hand) ..	ALL OFF	4
5 Circuit breakers	CHECKED	5
6 Battery switch	ON	6
7 Warning lights	CHECKED	7
8 Flight time logger	CHECKED AND RESET	8
9 Fuel quantity	ENDURANCE	9
10 Fuel shutoff valve	ON	10
11 Mixture	RICH	11
12 Carburator heat	OFF	12
13 Throttle	IDLE	13
14 Flaps	UP	14
15 Cabin doors	CLOSED AND LATCHED	15

CHECK BEFORE ENGINE START COMPLETED**ENGINE START**

1 Ignition switch key	IN, POSITION OFF	1
2 Boost pump switch	ON, FUEL PRESS WARNING OFF	2
3 Throttle	PULL 5 - 8 TIMES	3
4 Throttle	~ 1 cm OPEN	4
5 Propeller area	CLEAR	5
6 Ignition switch	START	6
7 Throttle	SET 1000 RPM	7
8 Oil pressure (after max 30 s)	GREEN ARC	8

ENGINE START COMPLETED

CHECK AFTER ENGINE START

1	Alternator switch.....	ON	1
2	Boost pump switch	OFF, FUEL PRESS CHECKED.....	2
3	NAV light switch	SET AS REQUIRED	3
4	Avionics switch	ON	4
5	ECW100 switch (FLARM).....	CHECK ON.....	5
6	Avionics	SET.....	6
7	Flight instruments.....	CHECK AND SET.....	7
8	Engine instruments.....	CHECKED	8
9	Engine warm up	CHT MIN 100°	9

CHECK AFTER ENGINE START COMPLETED**TAXI CHECK**

1	Brakes and steering.....	CHECKED	1
2	Compass	CHECKED	2

TAXI CHECK COMPLETED**RUN-UP**

1	Parking brake	SET.....	1
2	Oil temperature.....	GREEN ARC	2
3	Zone behind aircraft.....	FREE	3
4	Throttle	SET 1800 RPM.....	4
5	Oil pressure	GREEN ARC	5
6	Ammeter.....	CHECK LOADING	6
7	Ignition switch (L-B-R-L-B)	CHECKED (MAX -125 / Δ MAX 50 RPM)	7
8	Carburator heat	CHECK FUNCTION.....	8
9	Mixture.....	CHECK FUNCTION.....	9
10	Warning lights.....	CHECKED	10
11	Throttle	IDLE, 600 - 700 RPM.....	11
12	Throttle	SET 1000 RPM.....	12

RUN-UP COMPLETED

CHECK BEFORE DEPARTURE

1 Fuel shutoff valve	ON	1
2 Fuel quantity	ENDURANCE	2
3 Boost pump switch	ON	3
4 Mixture	RICH OR AS REQUIRED	4
5 Carburetor heat	OFF	5
6 Ignition switch	BOTH	6
7 Elevator trim	SET FOR DEPARTURE	7
8 Flaps	CHECKED AND SET POS 1	8
9 Flight controls	FREE	9
10 Flight instruments and avionics	SET FOR DEPARTURE	10
11 Engine instruments	CHECKED	11
12 Cabin doors	CLOSED AND LATCHED	12
13 Seat position and belts	RECHECKED AND LOCKED	13
14 Departure briefing (PAGE 6)	COMPLETED	14

CHECK BEFORE DEPARTURE COMPLETED**LINE UP CHECK**

1 Approach sector and runway	CLEAR	1
2 Strobe light switch	ON	2
3 Time	NOTED	3

LINE UP CHECK COMPLETED**TAKE OFF CHECK**

1 Wind	CHECKED	1
2 Runway heading	CHECKED	2
3 Throttle	FULL FORWARD	3
4 Engine power	MIN 2200 RPM, STEADY	4
5 Indicated air speed	RISING	5
6 Rotating speed	V _R : 90 - 100 KM/H	6
7 Best angle of climb speed	V _X : 120 - 130 KM/H	7

TAKE OFF CHECK COMPLETED

CLIMB CHECK

1	Flaps.....	UP, WHEN CLEAR OF OBSTACLE.....	1
2	Climb power	SET, REDUCE WHEN SAFE	2
3	Best rate of climb speed	V _Y : 150 KM/H.....	3
4	Boost pump switch	OFF, FUEL PRESS CHECKED.....	4
5	Mixture.....	SET ACC. AFM.....	5
6	Engine instruments.....	CHECKED	6

CLIMB CHECK COMPLETED**CRUISE CHECK**

1	Altimeter	SET (STD / QNH)	1
2	Cruise power	SET ACC. AFM.....	2
3	Mixture.....	SET ACC. AFM.....	3
4	Fuel quantity.....	ENDURANCE	4
5	Engine instruments.....	MONITOR.....	5

CRUISE CHECK COMPLETED**DESCENT CHECK**

1	ATIS or AD information.....	NOTED	1
2	Approach briefing (PAGE 6).....	COMPLETED	2
3	Avionics	SET AND CHECKED.....	3
4	Mixture.....	ADJUST FOR SMOOTH OPERATION ..	4
5	Cabin and PAX.....	SECURED AND FASTENED	5

DESCENT CHECK COMPLETED**APPROACH CHECK**

1	Altimeter	SET QNH.....	1
2	Boost pump switch	ON	2
3	Fuel quantity.....	ENDURANCE	3
4	Mixture.....	RICH OR AS REQUIRED	4
5	Carburetor heat	SET AS REQUIRED	5
6	Flaps (on downwind)	POS 1, BELOW V _{FE} : 170 KM/H.....	6

APPROACH CHECK COMPLETED

LANDING CHECK

1	Flaps.....	POS 2.....	1
2	Final speed.....	CHECKED, V _{FINAL} : 120 KM/H.....	2
3	Mixture.....	RICH OR AS REQUIRED.....	3
4	Carburator heat.....	OFF, SET FOR GO AROUND.....	4

LANDING CHECK COMPLETED**GO AROUND**

1	Throttle.....	SLOWLY FULL FORWARD.....	1
2	Carburator heat.....	OFF, RECHECKED.....	2
3	Positive attitude.....	CHECKED.....	3
4	Flaps.....	RETRACT SLOWLY UP.....	4
5	Best angle of climb speed.....	V _X : 120 - 130 KM/H.....	5

GO AROUND COMPLETED**AFTER LANDING CHECK**

1	Time.....	NOTED.....	1
2	Strobe light switch.....	OFF.....	2
3	Boost pump switch.....	OFF.....	3
4	Carburator heat.....	OFF.....	4
5	Flaps.....	UP.....	5

AFTER LANDING CHECK COMPLETED**ENGINE SHUT DOWN AND PARKING**

1	Parking brake.....	SET.....	1
2	Throttle.....	SET 1000 RPM.....	2
3	COM.....	MONITOR 121.500 MHZ.....	3
4	NAV light switch.....	OFF.....	4
5	Avionics switch.....	OFF.....	5
6	Alternator switch.....	OFF.....	6
7	Mixture.....	CUT OFF.....	7
8	Ignition switch.....	OFF AND KEY REMOVED.....	8
9	Flight time logger.....	NOTED.....	9
10	Battery switch.....	OFF.....	10
11	Flaps.....	POS 2.....	11
12	Aircraft log.....	COMPLETED.....	12
13	Tie-down, tow-bar.....	INSTALLED AS REQUIRED.....	13

ENGINE SHUT DOWN AND PARKING COMPLETED

DEPARTURE BRIEFING

1	RWY	SAY DEPARTURE RUNWAY	1
	RWY length	IN METER	
	RWY conditions	DRY / WET / CONCRETE / GRASS	
	Wind	CHECKED	
2	Routing and altitudes	DESCRIBE OUTBOUND ROUTE	2
3	Speeds	$V_R / V_X / V_Y / V_G$	3

Abnormal Situation / Emergency ...

- **DESCRIBE ACTIONS FOR:**

4	Any failure on ground		4
	<ul style="list-style-type: none"> • ACCELERATE - STOP DISTANCE • POWER IDLE, BRAKE, HOLD CENTERLINE, INFORM ATC 		
5	Engine failure below 1000 ft AGL		5
	<ul style="list-style-type: none"> • NOSE DOWN, MINIMUM V BEST GLIDE V_G • LAND STRAIGHT AHEAD +/- 30° OF CENTERLINE • NO RETURN TO AIRFIELD 		
6	Engine failure above 1000 ft AGL		6
	<ul style="list-style-type: none"> • NOSE DOWN, MINIMUM V BEST GLIDE V_G • RESTART PROCEDURE, CHECK FROM "LEFT TO RIGHT" • IF POSSIBLE RETURN TO AIRFIELD • USE OF FLAPS DEPENDS ON THE CIRCUMSTANCES, NORMALLY FLAPS SHOULD BE FULLY EXTENDED FOR TOUCHDOWN 		

DEPARTURE BRIEFING COMPLETED**APPROACH BRIEFING**

1	ATIS or AD information	NOTE IMPORTANT INFORMATION	1
2	Aerodrome elevation	IN FEET	2
3	RWY	RWY IN USE AND RWY LENGTH	3
4	RWY condition	DRY / WET / CONCRETE / GRASS	4
5	Routing and altitudes	OVERFLIGHT AND DOWNWIND	5
6	Approach speeds	V_{APP} AND V_{FINAL}	6
7	Missed approach procedure	VAC	7
8	Alternate airport	VAC	8

APPROACH BRIEFING COMPLETED

MAXIMUM CERTIFICATED WEIGHTS

CONVERTED

MAXIMUM TAKE OFF WEIGHT	1000	KG	.....	2205	LBS
MAXIMUM LANDING WEIGHT	950	KG	.....	2094	LBS

FUEL

MAX CAPACITY	110	L	.....	29	USG
USABLE	100	L	.....	26	USG
FUEL FLOW	35	L/H	.....	9.3	USG/H

AIRSPEEDS

V_R (ROTATING SPEED)	90 - 100	KM/H	.....	49 - 54	KT
V_X (BEST ANGLE OF CLIMB SPEED)	120 - 130	KM/H	.....	65 - 70	KT
V_Y (BEST RATE OF CLIMB SPEED)	150	KM/H	.....	81	KT
V_A (MANEUVERING SPEED)	200	KM/H	.....	108	KT
V_G (BEST GLIDE SPEED)	150	KM/H	.....	81	KT
V_{NO} (MAX. STRUCT. CRUSING SPEED)	270	KM/H	.....	146	KT
V_{NE} (NEVER EXCEED SPEED)	305	KM/H	.....	165	KT
V_{FE} (MAX. FLAPS EXT. SPEED)	170	KM/H	.....	92	KT
V_{S1} (STALLING SPEED CLEAN CONFIG.)	98	KM/H	.....	53	KT
V_{S0} (STALLING SPEED FULL FLAPS)	91	KM/H	.....	49	KT
V_{APP} (APPROACH SPEED)	150	KM/H	.....	81	KT
V_{FINAL} (FINAL SPEED)	120	KM/H	.....	65	KT