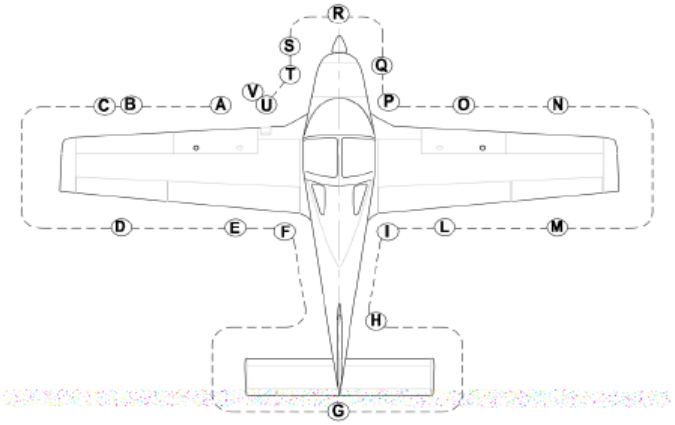
SKY SERVICES FLIGHT ACADEMY	NORMAL CHECK LIST	P2002JF VFR NIGHT

Edizione 3 Rev. 0 01 APRILE 2020

CABIN PRELIMINARY CHECK

1	MASTER SWITCH	OFF
2	PARK BRAKE	ENGAGE AND BRAKE PEDAL PRESS/BRAKE LEVER PULL
3	AIRCRAFT DOCUMENTS	CHECK
4	WEIGHT & BALANCE	VERIFY
5	SAFETY BELTS	CHECK CONNECTION/CONDITION
6	FLIGHT CONTROL	REMOVE LOCK/ CHECK TRAVEL
7	IGNITION SWITCH	OFF/KEY EXTRACTED
8	MAGNETOS	ON
9	VOLTMETER CHECK	CHECK 10-12 VOLT
10	AMMETER CHECK	RED ARC
11	FUEL LEVEL	VERIFY
12	ACOUSTIC STALL WARNING	CHECK
13	TORCH	TEST
14	DAY / NIGHT SWITCH	SET *as required by lighting condition*
15	INSTRUMENT AND DOME LIGHT	TEST
16	ALTERNATE STATIC PORT	CHECK CLOSED
17	PITOT HEATING SYSTEM	*Remove plug*, set to ON, CHECK advisory light ON. *After about 5 sec. turn OFF heating system.* Check Pitot if warm
18	NAV/STROBE/LDG/ LIGHT	CHECK ALL ON
19	MASTER SWITCH	OFF
20	FAK/FIRE EXT/ELT/CANOPY HAMMER/BAGGAGE RESTRAIN	CHECK
CABIN PRELIMINARY CHECK LIST		**COMPLETED**

AIRCRAFT WALK-AROUND



A Left fuel filler cap: check visually for desired fuel level. Drain the left fuel tank by drainage valve using a cup to collect fuel (drainage operation must be carried out with the aircraft parked on a level surface).
Check for water or other contaminants. Close filler cap.

B Remove protection plug (if provided) and check Pitot tube and the static ports mounted on left wing are unobstructed; do not blow inside vents.

C Left side leading edge and wing skin: visual inspection

D Left aileron, trim tab and hinges: visual inspection, check free of play, friction; Left tank vent: check for obstructions.

E Left flap and hinges: visual inspection

F Left main landing gear: check inflation, tyre condition, alignment, fuselage skin condition and antennas below and over

G Horizontal tail and tab: visual inspection, check free of play, friction

H Vertical tail, rudder and trim tab: visual inspection, check free of play, friction.
Check right fuselage skin and the external power receptable closure

I Right main landing gear; check inflation, tyre condition, alignment,

L Right flap and hinges: visual inspection.

M Right aileron, trim tab and hinges: visual inspection, check free of play, friction; Right side tank vent: check for obstructions.

N Right leading edge and wing skin: visual inspection.

O Right fuel filler cap: check visually for desired fuel level. Drain the right fuel tank by the drainage valve using a cup to collect fuel. Drainage operation must be carried out with the aircraft parked on a level surface.
Check for water or other contaminants. Close filler cap.

P Set the fuel selector valve to ON. Drain circuit using a cup to collect fuel by opening the specific drainage valve (part of the gascolator).
Check for water or other contaminants.

Q Nose wheel strut and tyre: check inflation, tyre and rubber shock absorber discs condition.

R Propeller and spinner condition: check for nicks, cracks, dents and other defects, propeller should rotate freely.
Check fixing and lack of play between blades and hub.

S Open right and left engine cowling:
1. Check no foreign object are present.
2. Verify coolant level in the overflow bottle: level must be between min. and max. mark. Replenish if required.

SKY SERVICES FLIGHT ACADEMY	NORMAL CHECK LIST	P2002JF VFR NIGHT

3. *Only before the first flight of the day:*
   a. Verify coolant level in the expansion tank, replenish as required up to top (level must be at least 2/3 of the expansion tank).
   b. Turn the propeller by hand to and fro, feeling the free rotation of 15°or 30° before the crankshaft starts to rotate. If the propeller can be turned between the dogs with practically no friction at all further investigation is necessary. Turn propeller by hand in direction of engine rotation several times and observe engine for odd noises or excessive resistance and normal compression.
   c. Carburetors: check the throttle cable condition and installation.
   d. Exhaust: inspect for damages, leakage and general condition
4. Check radiators. There should be no indication of leakage of fluid and they have to be free of obstructions.
5. Check oil level and replenish as required. Prior to oil check, having ignition key off turn the propeller by hand in direction of engine rotation several times to pump oil from the engine into the oil tank, or let the engine idle for 1 minute. This process is finished when air is returning back to the oil tank and can be noticed by a murmur from the open oil tank. Prior to long flights oil should be added so that the oil level reaches the max mark.
6. Inspect fuel circuit for leakages.
7. Check integrity of silent-block mountings.
8. Check connection and integrity of air intake system, visually inspect that ram air intake is unobstructed.
9. Check that all parts are secured or safetied

T Close engine cowling, check for proper alignment of cam-locks.

U Visual inspection of the Landing, NAV and Strobe Light.

V Remove tow bar and chocks, stow on board pitot, static ports and stall warning protective covers.

AIRCRAFT WALK-AROUND **COMPLETED**

BEFORE ENGINE STARTING

1	SEAT & SEAT BELTS	ADJUST/FASTEN
2	FLIGHT CONTROLS	CHECK TRAVEL
3	THROTTLE FRICTION	ADJUST
4	CIRCUIT BREAKERS	CHECK ALL IN
5	PARK BRAKE	CHECK SET
6	MASTER SWITCH	ON
7	GENERATOR LIGHT/VOLTAGE	CHECK ON/10.5 VOLT AT LEAST
8	ELECTRIC FUEL PUMP	ON/CHECK NOISE & PRESSURE RISE/OFF
9	AVIONIC MASTER SWITCH	ON/CHECK INSTRUMENTS/OFF
10	FLAP CONTROL	*Cycle fully extended and then set T/O*
11	PITCH TRIM	*Cycle fully up and down, from both left and right controls, check for trim disconnect switch operation. SET NEUTRAL*
12	NAV & STROBE LIGHTS	ON
13	FUEL QUANTITY	*Compare the fuel quantity indicators information with fuel quantity visually checked into the tanks*
14	CANOPY	CLOSED & LOCKED
15	MISSION BRIEFING	PERFORM
BEFORE ENGINE STARTING CHECK LIST		**COMPLETED**

ENGINE STARTING

1	MASTER SWITCH	ON
2	THROTTLE	IDLE
3	CHOCK	AS REQUIRED
4	FUEL SELECTOR	ON LESSER TANK
5	ELECTRIC FUEL PUMP	ON
6	AREA AROUND PROPELLER	CLEAR
7	VIA DALL'ELICA	SHOUT
8	IGNITION SWITCH	BOTH THEN START
9	OIL PRESSURE RISE	CHECK WITHIN 10 SEC
10	CHOKE	OFF
11	PROPELLER RPM	1000/1200
12	GENERATOR SWITCH	ON
13	VOLTMETER/AMMETER	>14VOLT/GREEN ARC
14	ENGINE INSTRUMENTS	CHECK
15	ELECTRIC FUEL PUMP	OFF
16	FUEL PRESSURE	MINIMUM 2,2 PSI
ENGINE STARTING CHECK LIST		**COMPLETED**

BEFORE TAXIING

1	AVIONIC MASTER SWITCH	ON
2	RADIOS AND AVIONIC	ON
3	TRANSPONDER	STBY
4	ALTIMETER	SET QNH or QFE
5	GYRO & FLIGHT INSTRUMENTS	CHECK/ALIGN
6	RADIO CALL	PERFORM
7	LANDING LIGHT	ON
8	PARKING BRAKE	RELEASE
BEFORE TAXIING CHECK LIST		**COMPLETED**

Edizione 3 Rev. 0 01 APRILE 2020

TAXIING

1	**BRAKES**	**CHECK**
2	**STEERING**	**CHECK**
3	**GYRO INSTRUMENTS & COMPASS**	**CHECK**
TAXIING CHECK LIST		**COMPLETED**

ENGINE RUN UP

1	PARKING BRAKE	Pedal press and SET
2	LANDING LIGHT	OFF
3	ENGINE INSTRUMENTS	WITHIN LIMITS Oil pressure: 2-5 bar *(above 1400 rpm)* 0.8 bar *(below 1400 rpm)*
4	GENERATOR LIGHT	CHECK OFF
5	ELECTRIC FUEL PUMP	ON
6	FUEL SELECTOR / FUEL PRESSURE	ON FULLEST TANK/CHECK
7	PROPELLER	1640 RPM
8	IGNITION TEST	a. *Select LH, check drop within 130 RPM;* *b. Select BOTH: check speed 1640 RPM;* *c. Select RH: check speed drop within 130 RPM;* *d. Select BOTH: check speed 1640 RPM* *e. Maximum difference between LH and RH 50 RPM;.*
9	CARBURATOR HEAT CONTROL	CHECK *a. Pull selector fully out* *b. Propeller speed: check 100 RPM drop* *c. Push selector fully IN* *d. propeller speed: check 1640 RPM*
10	VACUUM	GREEN ARC
11	PROPELLER	1000-1200 RPM
12	FLAPS	SET TO (15°)
13	PITCH TRIM	NEUTRAL
14	FLIGHT CONTROL	CHECK TRAVEL
15	SEAT BELTS	FASTENED
16	CANOPY	CLOSED & LOCKED ON 3 POINTS
ENGINE RUN UP CHECK LIST		**COMPLETED**

BEFORE TAKE OFF

1	FINAL AND EMERGENCY BRIEFING	PERFPORM
2	CARBURETTOR HEAT	OFF
3	RUNWAY & TRAFFIC PATTERN	CLEAR OF TRAFFIC
4	RADIO CALL	PERFORM
	----------WHEN CLEARED/READY FOR TAKE OFF----------	
5	LANDING LIGHT	ON
6	TRANSPONDER	ALT
7	PARKING BRAKE	RELEASED
BEFORE TAKE OFF CHEK LIST		**COMPLETED**

TAKE OFF & CLIMB

1	**DIRECTIONAL GYRO/COMPASS**	**ALIGN**
2	**TIMER**	**START**
3	**THROTTLE**	**SET FULL: 2100 +/- 100 RPM**
4	**ENGINE INSTRUMENTS/**	**CHECK**
5	**ANEMOMETER INDICATION**	**CHECK**
6	**ROTATION SPEED**	**ALL WEIGHTS 42 KIAS**
7	**FLAP RETRACTION SPEED**	**ABOVE 50 KIAS**
8	**BEST RATE OF CLIMB SPEED Vy**	**ALL WEIGHTS 66 KIAS**
9	**LANDING LIGHT**	**OFF**
10	**ELECTRIC FUEL PUMP/ FUEL PRESSURE**	**OFF/ CHECK GREEN ARC**
11	**PROPELLER**	***At or below* 2250 RPM**
TAKE OFF & CLIMB CHECK LIST		**COMPLETED**

CRUISE

1	**PROPELLER**	**Set below-2250 RPM**
2	**ENGINE INSTRUMENTS**	**WITHIN LIMITS**
3	**CARBURETTOR HEATING**	**AS REQUIRED**
CRUISE CHECK LIST		**COMPLETED**

BEFORE ANY EXERCISE

1	**ALTITUDE**	**CLIMB TO A SAFE ALTITUDE**
2	ELECTRIC FUEL PUMP	ON
3	CARBURATOR HEATING	AS REQUIREDF
4	ENGINE INSTRUMENTS	WITHIN LIMITS
6	FUEL SELECTOR	ON FULLEST TANK
7	SEAT BELTS	FASTENED/TIGHTENED
8	LOOSE OBJECTS	SECURE
9	SURROUNDING AIRSPACE	CLEAR OF TRAFFIC/OBSTACLES
BEFORE EXERCISE CHECK LIST		**COMPLETED**

	NORMAL CHECK LIST	P2002JF VFR NIGHT

BEFORE LANDING

1	**ELECTRIC FUEL PUMP**	**ON**
2	**FUEL SELECTOR**	**ON FULLEST TANK**
3	**LANDING LIGHT**	**ON**
5	**ON DOWNWIND**	**FLAPS TO/15°**
	APPROACH SPEED	**ALL WEIGHTS 66 KIAS**
6	**ON FINAL**	**FLAPS LDG/40°**
	FINAL APPROACH SPEED	**ALL WEIGHTS 51 KIAS**
7	**CARBURATOR HEAT**	**OFF**
8	**OPTIMUM TOUCHDOWN SPEED**	**51 KIAS**
BEFORE LANDING CHECK LIST		**COMPLETED**

BALKED LANDING/GO AROUND

1	**THROTTLE**	**FULL OPEN**
2	**PITCH**	**LEVELED/SLIGHTLY PITCHED UP**
2	**SPEED**	**KEEP OVER 61 KIAS CLIMB VY OR VX AS APPLICABLE**
3	**FLAPS**	**RETRACT TO TAKEOFF POSITION**
4	**TRIM**	**ADJUST**
5	**RADIO CALL**	**PERFORM**
GO AROUND CHECK LIST		**COMPLETED**

AFTER LANDING

1	FLAPS	RETRACT
2	ELECTRIC FUEL PUMP	OFF
3	LANDING LIGHT	ON
4	TRANSPONDER	STBY
AFTER LANDING CHECK LIST		**COMPLETED**

ENGINE SHUT DOWN

1	PARKING BRAKE	SET
2	LANDING LIGHT	OFF
3	RADIO CALL	PERFORM
4	PROPELLER	1 MINUTE AT 1200 RPM
5	RADIO/AVIONIC/ TRANSPONDER	OFF
6	AVIONIC MASTER SWITCH	OFF
7	NAVIGATION LIGHTS	OFF
8	IGNITION SWITCH	OFF/EXTRACT KEY
9	STROBE LIGHT	OFF
10	MASTER & GENERATOR SWITCH	OFF
11	FUEL SELECTOR	OFF
12	CANOPY	UNLOCK & OPEN
ENGINE SHUT DOWN CHECK LIST		**COMPLETED**

POST FLIGHT

1	FLIGHT CONTROL	LOCK
2	STATIC/DINAMIC COVER	SET
3	WHEEL CHOCK/MOORING CHORD	SET
4	PARKING BRAKE	RELEASE
5	CANOPY	CLOSE
6	TLB	FILL
POST FLIGHT CHECK LIST		**COMPLETED**

NOTE: Le voci trascritte in grassetto e con carattere più grande sono da intendersi **MEMORY ITEM**

The aircraft is certified in normal category in accordance with EASA CS-VLA.

Non-aerobatic operations include:

- Any manoeuvre pertaining to "normal" flight
- Stalls (except whip stalls) Slow deceleration (*1 kts/sec*)
- Lazy eights 96 KIAS
- Chandelles 110 KIAS
- Turns in which the angle of bank is not more than 60° 96 KIAS

This Check List is compliant to Section 4 – Normal Procedure of the **Aircraft Flight Manual** *Doc. No. 2002/028 3rd Edition – Rev. 14 issued by* Costruzioni Aeronautiche **TECNAM** srl - Via Maiorise CAPUA (CE) – Italy on the 11th November 2019

AIRCRAFT MODEL: ***P2002-JF***

EASA TYPE CERTIFICATE NO: **A .006 Issue 8** (DATED 2013, JUNE 7TH)

Sky Services Flight Academy