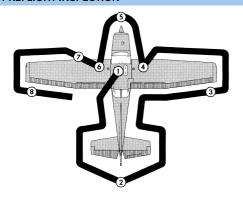
#### PREFLIGHT INSPECTION



## 1. PREFLIGHT INSPECTION - CABIN

**DOCUMENTS CHECKED** CONTROL LOCK REMOVED **IGNITION SWITCH OFF AVIONICS SWITCH** OFF MASTER SWITCH ON **FLAPS DOWN FUEL OUANTITY** CHECK MASTER SWTICH OFF **PRFFIIGHT PFRFORM** 

# 2. PREFLIGHT INSPECTION - EMPENNAGE

RUDDER GUST REMOVE

LOCK

INSPECTION

SECTION 4, ref POH

TAIL TIE-DOWN DISCONNECT

CONTROL CHECK freedom of SURFACES movement and security.

# 3. PREFLIGHT INSPECTION – RIGHT WING TRAILING EDGE

AILERON CHECK freedom of movement and security.

## 4. PREFLIGHT INSPECTION - RIGHT WING

WING TIE-DOWN DISCONNECT

MAIN WHEEL TIRE CHECK for proper inflation.

Before first flight of the day and after each refueling, use sampler cup and drain small quantity of fuel from fuel tank sump quick-drain valve to check for water, sediment, and proper fuel grade.

FUEL QUANTITY CHECK VISUALLY

FUEL FILLER CAP SECURE

#### 5. PREFLIGHT INSPECTION - NOSE

PROPELLER AND

ENGINE OIL LEVEL CHECK, do not operate with

less than four quarts. Fill to six quarts for extended flight.

CHECK for nicks and

Before first flight of the day and after each refueling, pull out strainer drain knob for about four seconds to clear fuel strainer of possible water and sediment. Check strainer drain closed. If water is observed, the fuel system may contain additional water, and further draining of the system at the strainer, fuel tank sumps, and fuel selector valve drain plug will be necessary.

SPINNER	security.
LANDING LIGHT	CHECK for condition and cleanliness
CARBURETOR AIR FILTER	CHECK for restrictions by dust or other foreign matter.
NOSE WHEEL STRUT AND TIRE	CHECK for proper inflation.
NOSE TIE-DOWN	DISCONNECT
STATIC SOURCE OPENING	CHECK for stoppage
COWL PLUGS	REMOVE

### 6. PREFLIGHT INSPECTION - LEFT WING

MAIN WHEEL TIRE CHECK for proper inflation

Before first flight of the day and after each refueling, use sampler cup and drain small quantity of fuel from fuel tank sump quick-drain valve to check for water, sediment, and proper fuel grade.

FUEL QUANTITY	CHECK VISUALLY
FUEL FILLER CAP	SECURE

## 7. PREFLIGHT INSPECTION - LEFT WING

PITOT TUBE COVER

	for stoppage		
FUEL TANK VENT OPENING	CHECK for stoppage		
STALL WARNING OPENING	CHECK for stoppage. To check the system, place a clean handkerchief over the vent opening and apply suction; a sound from the		

REMOVE and check opening

warning horn will confirm

system operation

WING TIE-DOWN DISCONNECT

## 8. PREFLIGHT INSPECTION - LEFT WING

AILERON CHECK for freedom of movement and security

STARTING ENGINE (APRON)		TAKEOFF (NORMAL)	
PREFLIGHT INSPECTION	COMPLETE	WING FLAPS	UP
SEATS, BELTS, HARNESSES	ADJUST, LOCK	CARBURETOR HEAT	COLD
FUEL SELECTOR VALVE	BOTH	THROTTLE	FULL OPEN
BRAKES	TEST and SET	ROTATE SPEED	55 KIAS
ALL ELECTRICAL EQUIPMENT	OFF	CLIMB SPEED	70-80 KIAS
CIRCUIT BREAKERS	ALL IN	BEST RATE OF CLIMB	73 KIAS
MIXTURE	RICH		
CARBURETOR HEAT	COLD	TAKEOFF (SHORT FIELD)	
MASTER SWITCH	ON	WING FLAPS	UP
BEACON LIGHT	ON	CARBURETOR HEAT	COLD
PRIME (2 to 6 strokes; none if warm)	AS REQUIRED	BRAKES THROTTLE	APPLY FULL OPEN
THROTTLE	OPEN 1/8"	BRAKES	RELEASE
PROPELLER AREA	CLEAR	ROTATE SPEED	55 KIAS
IGNITION SWITCH	START	CLIMB SPEED	59 KIAS
OIL PRESSURE	CHECK	CLIMB SPEED	39 KIAS
AVIONICS	ON	ENROUTE CLIMB	
	ON	SPEED	70-85 KNOTS
RADIOS TRANSPONDER	ON	THROTTLE	FULL OPEN
		MIXTURE	RICH
WING FLAPS	UP	TIME	111011
MIXTURE	LEAN	CRUISE	
BEFORE TAXI		POWER	2200-2700 RPM
ATIS	COPIED	TRIM	ADJUST
CLEARANCE	COPIED	MIXTURE	LEAN
QNH, SQUAK, FLIGHT PLAN	SET		
2111, 525/11, 12111112111	OL1	DESCENT	
BEFORE TAKEOFF (HOLD POIN	T)	MIXTURE (full rich for idle	ADJUST
PARKING BRAKE	SET	power)	
DOORS, WINDOWS	LOCKED	POWER	AS DESIRED
FLIGHT CONTROLS	FREE, CORRECT	CARBURETOR HEAT	AS REQUIRED
FLIGHT INSTRUMENTS	SET		
FUEL SELECTOR VALVE	ВОТН	BEFORE LANDING	
MIXTURE	RICH	SEATS, BELTS, HARNESSES	ADJUST
TRIM	TAKE-OFF	FUEL SELECTOR VALVE	ВОТН
THROTTLE 1700 RPM	SET	MIXTURE	RICH
MAGNETOS (drop less than	CHECK	CARBURETOR HEAT	ON
125 RPM or 50 RPM differential)	5.1.25.K	LANDING LIGHT	ON
CARBURETOR HEAT	CHECK	LANDING (NORMAL)	
ENGINE INSTRUMENTS	CHECK	APPROACH SPEED (FLAPS UP)	60-70 KIAS
AMMETER	CHECK	WING FLAPS (BELOW 85 KIAS)	AS DESIRED
IDLE	CHECK	FINAL APPROACH SPEED	55-65 KIAS
THROTTLE 1000 RPM	SET	(FULL FLAPS)	
RADIOS	SET	TOUCHDOWN	MAIN FIRST,
TRANSPONDER	ALT		LOWER NOSE
LIGHTS (NAV, BCN, LDG)	ON	DDAKING	GENTLY
LIOTHIO (IVAV, BOIV, EDG)	JIV	BRAKING	MINIMUM

LANDING (SHORT FIELD)	
APPROACH SPEED (FLAPS UP)	60-70 KIAS
WING FLAPS (BELOW 85 KIAS)	FULL DOWN, 40°
FINAL APPROACH SPEED	60 KIAS (UNTIL
(FULL FLAPS)	FLARE)
POWER	IDLE
TOUCHDOWN	MAIN FIRST
BRAKING	APPLY HEAVILY

BALKED LANDING	
THROTTLE	FULL
CARBURETOR HEAT	COLD
WING FLAPS (IMMEDIATELLY)	20°
CLIMB SPEED	55 KIAS
WING FLAPS (UNTIL OBSTACLES ARE CLEARED)	10°
WING FLAPS (SAFE ALTITUDE, SPEED 60 KIAS)	RETRACT
CLIMB SPEED	70-80 KIAS

AFIER LANDING	
WING FLAPS	UP
CARBURETOR HEAT	COLD
LIGHTS (STROBES, LANDING)	OFF
TRIM	TAKEOFF

SECURE AIRCRAFT	
PARKING BRAKE	ON
RADIOS, TRANSPONDER	OFF
AVIONICS SWITCH	OFF
MIXTURE	CUT OFF
MASTER SWITCH	OFF
BEAKON LIGHT	OFF
CONTROL LOCK	INSTALL
WINGS, TAIL	TIE-DOWN
PITOT COVER	INSTALL
COWL PLUGS	INSTALL

SPEEDS FOR NORMAL OPERATION	
MAXIMUM GLIDE	65 KIAS
TAKEOFF, FLAPS UP:	
ROTATE	55 KIAS
NORMAL CLIMB OUT	70-80 KIAS
SHORT FIELD TAKEOFF, FLAPS UP, SPEED AT 50 FEET	59 KIAS
ENROUTE CLIMB, FLAPS UP:	
NORMAL, SEA LEVEL	75-85 KIAS
NORMAL, 10,000 FT	70-80 KIAS
Vy BEST RATE OF CLIMB, SEA LEVEL	73 KIAS
Vy BEST RATE OF CLIMB, 10,000 FT	68 KIAS
Vx BEST ANGLE OF CLIMB, SEA LEVEL	59 KIAS
Vx BEST ANGLE OF CLIMB, 10,000 FT	61 KIAS
LANDING APPROACH:	
NORMAL APPROACH, FLAPS UP	60-70 KIAS
NORMAL APPROACH, FLAPS 40°	55-65 KIAS
SHORT FIELD APPROACH, FLAPS 40°	60 KIAS
BALKED LANDING:	
MAXIMUM POWER, FLAPS 20°	55 KIAS
MAXIMUM RECOMMENDED TURBULI PENETRATION SPEED:	ENT AIR
2300 LBS / 1043 KG	97 KIAS
1950 LBS / 885 KG	89 KIAS
1600 LBS / 725 KG	80 KIAS
MAXIMUM DEMONSTRATED CROSSV VELOCITY:	VIND
TAKEOFF OR LANDING	15 KNOTS
PRECAUTIONARY LANDING WITH ENGINE POWER	60 KIAS
LANDING WITHOUT ENGINE POWER FAILURE AFTER TAKEOFF:	/ ENGINE
WING FLAPS UP	65 KIAS

STALL SPEEDS - 2300	LBS /	1043KG		
FLAPS	ANGLE OF BANK			
	0°	30°	45°	60°
MOST REARWARD CENTER OF GRAVITY				
UP	42	45	50	59
10°	38	40	45	54
40°	36	38	43	51
MOST FORWARD CENTER OF GRAVITY				
UP	47	51	56	66
10°	44	47	52	62
40°	41	44	49	58

60 KIAS

WING FLAPS DOWN