

AIRCRAFT PREPARATION:

- | | | |
|---|---------------------------|---------|
| 1 | TOW BAR, CHOCKS, TIE DOWN | REMOVED |
| 2 | PITOT COVER | REMOVED |
| 3 | GENERAL CONDITION | CHECKED |

COCKPIT:

- | | | |
|----|--|--------------|
| 1 | PARKING BRAKE | SET |
| 2 | HEATER | OFF |
| 3 | FRESH AIR FAN | OFF |
| 4 | AVIONICS MASTER | OFF |
| 5 | GPS 1 & 2 | OFF |
| 6 | A/P | OFF |
| 7 | RADIO LIGHTS and PANEL LIGHTS | OFF |
| 8 | FUEL SELECTORS | ON |
| 9 | TRIMS | SET |
| 10 | FLAPS | UP |
| 11 | COWL FLAPS | OPEN |
| 12 | PRIMERS | LOCKED |
| 13 | CARBURETOR HEATS | OFF |
| 14 | MIXTURES | CUT OFF |
| 15 | PROPS | FORWARD |
| 16 | THROTTLES | CLOSED |
| 17 | GEAR | DOWN |
| 18 | EMER GEAR EXTENSION | IN / GUARDED |
| 19 | ELECTRIC PITCH TRIM | ON |
| 20 | ALL SWITCHES | OFF |
| 21 | ELT | ARMED |
| 22 | BATT | ON |
| 23 | ANNUNCIATORS: VAC / ALT / OIL | ON |
| 24 | GEAR INDICATION LIGHTS | 3 GREEN |
| 25 | LOW VOLTAGE, HEATER OVERTEMPERATURE | TEST |
| 26 | LAND, NAV, ANTI COLL, (INTERIOR) – LIGHTS & PITOT HEAT | ON |
| 27 | LIGHTS, PITOT HEAT, STALL WARNING (OUTBOARD) | CHECKED |
| 28 | LAND, NAV, ANTI COLL, (INTERIOR) – LIGHTS & PITOT HEAT | OFF |
| 29 | FLAPS | DN |
| 30 | STALL WARNING (INBOARD) | CHECKED |
| 31 | BATT | OFF |

OUTSIDE:
RIGHT WING

- | | | |
|----|-----------------------------|-------------------|
| 1 | FUEL SUMP DRAINS | DRAIN |
| 2 | FLAP & AILERON | CHECKED |
| 3 | WING TIP | CHECKED |
| 4 | FUEL TANK VENT | CHECKED |
| 5 | FUEL TANK & FILLER CAP | CHECK QTY, CLOSED |
| 6 | ENGINE OIL LEVEL | CHECKED |
| 7 | PROP & SPINNER | CHECKED |
| 8 | COWLING AND AIR INTAKES | CHECKED |
| 9 | COWL FLAP | CHECKED |
| 10 | MAIN GEAR ASSY & WHEEL WELL | CHECKED |

CONTINUED

NOSE

- | | | |
|----|--------------------------------------|---------|
| 11 | NOSE CONE | CHECKED |
| 12 | HEATER (AIR INTAKE, EXHAUST & VENTS) | CHECKED |
| 13 | NOSE GEAR ASSY & WHEEL WELL | CHECKED |

LEFT WING

- | | | |
|----|-----------------------------|-------------------|
| 14 | MAIN GEAR ASSY & WHEEL WELL | CHECKED |
| 15 | COWL FLAP | CHECKED |
| 16 | COWLING AND AIR INTAKES | CHECKED |
| 17 | ENGINE OIL | CHECKED |
| 18 | PROP & SPINNER | CHECKED |
| 19 | FUEL TANK & FILLER CAP | CHECK QTY, CLOSED |
| 20 | FUEL VENT | CHECKED |
| 21 | PITOT STATIC HEAD | CHECKED |
| 22 | WING TIP | CHECKED |
| 23 | FLAP & AILERON | CHECKED |

FUSELAGE

- | | | |
|----|-----------------------------|-----------------|
| 24 | AIR INTAKE | CHECKED |
| 25 | TAIL CONE | CHECKED |
| 26 | CONTROL SURFACES& TRIM TABS | CHECKED |
| 27 | ANTENNAS | CHECKED |
| 28 | BAGGAGE DOOR | CHECKED, CLOSED |

AIRCRAFT PREPARATION COMPLETED

OMIT SHADED ITEMS DURING TRANSIT STOPS

CREW AT STATIONS:

- 1 AIRCRAFT PREPARATION ----- COMPLETED
- 2 DOCUMENTS ----- ON BOARD
- 3 SEATS AND SEAT BELTS ----- ADJUSTED / SECURED
- 4 DOORS ----- CLOSED
- 5 PARKING BRAKE ----- SET

CREW AT STATIONS COMPLETED

BEFORE ENGINE START:

- 1 BATT ----- ON
- 2 ANTI COLL ----- ON
- 3 CARB HEATS ----- COLD
- 4 MIXTURES ----- RICH
- 5 PROPS ----- FORWARD
- 6 THROTTLES ----- ¼ INCH OPEN

BEFORE ENGINE START COMPLETED

ENGINE START:

- 1 ELECTRIC FUEL PUMP ----- ON / PX CHECKED
- 2 PRIME ----- AS REQUIRED
- 3 PROP AREA ----- CLEAR
- 4 IGNITION SWITCHES ----- ON
- 5 STARTER ----- ENGAGE
- 6 THROTTLE ----- 1000 - 1200 RPM
- 7 OIL PRESSURE ----- CHECKED
- 8 SUCTION ----- CHECKED
- 9 ALTERNATOR ----- ON
- 10 ELECTRIC FUEL PUMP ----- OFF

ENGINE START COMPLETED

REPEAT ENGINE START PROCEDURES FOR STARTING SECOND ENGINE

AFTER ENGINE START:

- 1 AVIONICS MASTER ----- ON
- 2 GPS 1 & 2 ----- ON
- 3 TRANSPONDER ----- STBY
- 4 COM – NAV ----- SET
- 5 ALL FLIGHT INSTRUMENTS ----- SET / CHECKED
- 6 FUEL SELECTORS ----- X-FEED
- 7 FLAPS ----- CHECKED, SET FOR TAKEOFF
- 8 TRIMS ----- CHECKED, SET FOR TAKEOFF
- 9 FLIGHT CONTROLS ----- CHECKED
- 10 DEPARTURE BRIEFING ----- COMPLETED

AFTER ENGINE START COMPLETED

TAXI CHECK:

- 1 BRAKES ----- CHECKED
- 2 NOSE WHEEL STEERING ----- CHECKED
- 3 FLIGHT INSTRUMENTS ----- CHECKED

TAXI CHECK COMPLETED

BEFORE TAKEOFF CHECK:

- 1 PARKING BRAKE ----- SET
- 2 FUEL SELECTORS ----- ON
- 3 MIXTURES ----- RICH
- 4 CARBURETOR HEATS ----- COLD
- 5 ENGINE INSTRUMENTS ----- CHECKED
- THROTTLES -> 1500 RPM ----- FEATHER CHECK
- THROTTLES -> 2000 RPM ----- PROPELLER CHECK
- MAGNETOS ----- (175 drop / 50 diff) CHECKED IN LIMITS
- CARBURETOR HEATS ----- ON
- THROTTLES ----- IDLE
- CARBURETOR HEATS ----- COLD
- THROTTLES ----- 1000 RPM
- ELECTRIC FUEL PUMPS ----- ON
- 6 FRICTION LOCK ----- ADJUSTED
- 7 FLAPS ----- UP FOR TAKEOFF
- 8 DOORS AND WINDOW ----- CLOSED AND LATCHED

EMERGENCY BRIEFING

BEFORE TAKEOFF CHECK COMPLETED

CLIMB CHECK:

- | | | |
|---|---------------------------|-----|
| 1 | GEAR----- | UP |
| 2 | FLAPS ----- | UP |
| 3 | ELECTRIC FUEL PUMPS ----- | OFF |
| 4 | LANDING - LIGHTS ----- | OFF |
| 5 | POWER ----- | SET |

CLIMB CHECK COMPLETED

CRUISE CHECK:**

- | | | |
|---|--------------------------|---------|
| 1 | POWER ----- | SET |
| 2 | ENGINE INSTRUMENTS ----- | CHECKED |
| 3 | ALTIMETER ----- | CHECKED |

CRUISE CHECK COMPLETED

DESCEND CHECK:**

- | | | |
|---|---------------------------|-----------|
| 1 | AIRPORT INFORMATION ----- | RECEIVED |
| 2 | ALTIMETER ----- | SET |
| 3 | BRIEFING ----- | PERFORMED |

DESCENT CHECK COMPLETED

APPROACH CHECK:

- | | | |
|---|-----------------------|------|
| 1 | POWER ----- | SET |
| 2 | GEAR ----- | DOWN |
| 3 | FLAPS ----- | SET |
| 4 | LANDING - LIGHT ----- | ON |

APPROACH CHECK COMPLETED

FINAL CHECK:

- | | | |
|---|---------------------------|----------|
| 1 | GEAR ----- | DOWN |
| 2 | FLAPS ----- | SET |
| 3 | CARB HEATS----- | ON |
| 4 | MIXTURES ----- | RICH |
| 5 | PROPS ----- | HIGH RPM |
| 6 | ELECTRIC FUEL PUMPS ----- | ON |
| 7 | LANDING - LIGHT ----- | ON |
| 8 | APPROACH SPEED ----- | XX KTS |

FINAL CHECK COMPLETED

****Omit during continuous training patterns**

AFTER LANDING CHECK:

- | | | |
|---|---------------------------|------|
| 1 | FLAPS ----- | UP |
| 2 | CARBURETOR HEATS ----- | COLD |
| 3 | ELECTRIC FUEL PUMPS ----- | OFF |
| 4 | PITOT HEAT ----- | OFF |
| 5 | LANDING - LIGHT ----- | OFF |
| 6 | TRANSPONDER ----- | STBY |
| 7 | COWL FLAPS----- | OPEN |

AFTER LANDING CHECK COMPLETED

PARKING CHECK:

- | | | |
|----|--------------------------------|--------------|
| 1 | PARKING BRAKE ----- | SET |
| 2 | GPS 1 & 2 ----- | OFF |
| 3 | TRANSPONDER ----- | OFF |
| 4 | AVIONICS MASTER ----- | OFF |
| 5 | HEATER ----- | OFF |
| 6 | FRESH AIR FAN ----- | OFF |
| 7 | MIXTURES ----- | IDLE CUT OFF |
| 8 | IGNITION SWITCHES ----- | OFF |
| 9 | THROTTLES ----- | CLOSED |
| 10 | NAV LIGHT & ALL SWITCHES ----- | OFF |
| 11 | ALTERNATORS ----- | OFF |
| 12 | MASTER SWITCH ----- | OFF |

PARKING CHECK COMPLETED

When parking check is completed and before leaving the aircraft make sure:

- Parking brake is released
- Pitot cover is installed
- Lock doors
- If parking outside, apply chocks

- Clean the aircraft.

Don't leave any waste, papers personnel belongings in the cockpit.

Clean the windshield and wing leading edge, elevator leading edge, cowlings and propellers.

- Complete documents



LIMITATIONS

		KIAS
Vne	Never exceed speed	202
Vno	Maximum structural cruising speed	169
Va	Maneuvering speed 3800 lbs	135
Va	Maneuvering speed 2700 lbs	112
Vb	Turbulent air penetration speed	135
Vfe	Maximum flap speed	111
Vle	Max gear extension / extended speed	140
Vlo	Max gear retraction speed	109
Vmca	Minimum single eng. Air control speed	56
Vs	Stall speed clean	57
Vso	Stall speed landing configuration	55
Vy	Best rate of climb speed	88
Vx	Best angle of climb speed	82
Vyse	Single engine best rate of climb speed	88
Vxse	Single engine best angle of climb speed	82
	Single engine final approach speed	90
	Single engine minimum departure speed	75
	Single engine go around speed AVOID !!!	88

SINGLE ENGINE OPERATION

1	Dead foot = Dead engine	IDENTIFY
2	Attitude 3-5° to op. engine. ball 1/2	MAINTAIN
3	Airspeed keep minimum	82 KIAS
4	Landing gear and flaps	UP
5	Throttle dead engine	IDLE
6	Propeller (above 950 RPM)	FEATHER
7	Power operating engine	SET MAX
6	SECURE ENGINE	
a	Mixture	CUTOFF
b	Fuel selector	OFF
c	Fuel pump	OFF
d	Magneto	OFF
e	Alternator switch	OFF
f	Cowl flap	CLOSE