

CABIN INSPECTION

PREFLIGHT INSPECTION **COMPLETED**
 PARKING BRAKE..... **ON**
 BATTERY MASTER **OFF**
 CABIN HEAT **VERIFY OFF**
 LANDING GEAR LEVER..... **DOWN**
 BATTERY MASTER SWITCH **ON**
 LANDING GEAR LIGHT **3 GREEN**
 NAV LIGHTS **ON**
 THROTTLE..... **IDLE**
 PROPELLER **FULL FORWARD**
 MIXTURE **IDLE CUT-OFF**
 FUEL SELECTOR **HIGHEST TANK**
 CIRCUIT BREAKERS **ALL IN**
 FUEL QUANTITY **CHECK**

TRIMS **NEUTRAL**
 RADIO MASTER SWITCH **ON**
 GNS NAVDATA AND SELF TEST **CHECK AND COMPLETE**
 START-UP CLEARANCE..... **OBTAIN AS REQUIRED**

BEFORE STARTING THE ENGINES

SEATS **ADJUST AND LOCK**
 FLIGHT CONTROLS **CHECK / FREE**
 FLAPS **UP**
 RADIO MASTER SWITCH **OFF**
 ELT **VERIFY ARM**
 ALTERNATE STATIC PORT VALVE **CLOSED**
 THROTTLE LEVER FRICTION **ADJUST**
 BRAKES **HOLD**
 FIN STROBE LIGHTS **ON**
 ANNUNCIATOR PANEL **TEST**

ENGINES START PROCEDURE

ENGINE START PROCEDURE

MIXTURE	FULL RICH
THROTTLE	¼ INCH OPEN
MAGNETOS SWITCHES	BOTH ON
FUEL PUMP	4-5 SEC
ALTERNATOR	ON
MIXTURE	CUT-OFF
ENGINE PROPELLER ZONE	CHECK / FREE
IGNITION SWITCH	START
MIXTURE WHEN ENGINE START	SLOWLY FULL RICH
PROPELLER RPM	SET 1000 RPM
ENGINE OIL PRESSURE	CHECK
AMMETER	CHECK
ANNUNCIATOR PANEL	CHECK

WARM ENGINE START PROCEDURE

MIXTURE	CUT-OFF
THROTTLE	HALF OPEN
MAGNETOS SWITCHES	BOTH ON
FUEL PUMP	ON
ALTERNATOR	ON
ENGINE PROPELLER ZONE	CHECK / FREE
IGNITION SWITCH	START
MIXTURE	SLOWLY ADJUST TO FULL RICH
PROPELLER RPM	SET 1000 RPM
ENGINE OIL PRESSURE	CHECK
AMMETER	CHECK
ANNUNCIATOR PANEL	CHECK

AFTER ENGINE START

MIXTURE **LEAN TO OBTAIN MAX RPM**
 RADIO MASTER SWITCH **ON**
 COMM/NAV EQUIPMENT **ALL ON**
 AUTOPILOT/FD **ON**

COMPLETE ALL TASKS REFERRING TO YOUR FLIGHT, SET ALTIMETERS, GNSS FLIGHT PLAN AND PROCEDURE ACCOR. VFR/IFR CLEARANCE, PERFORM SUFFICIENT NAV/COMM AND TRANSPONDER SETTINGS, SET SUFFICIENT CDI SOURCE AND PERFORM DEPARTURE BRIEFING.
WHEN READY TO TAXI CONTINUE WITH THIS CHECKLIST.

SEATS, SEAT BELTS, SHOULDER HARNESSSES **ADJUST AND LOCK**
 TRANSPONDER **SQAWK, STBY**
 FLIGHT INSTRUMENTS **SET & X-CHECKED**
 ENGINE PARAMETERS **WITHIN RUN-UP LIMITS**
 RECON/LANDING LIGHTS **ON**
 PARKING BRAKE **OFF**
 TAXI **PERFORMED**

ENGINE RUN-UP SEQUENCE

PARKING BRAKE **ON**
 LANDING LIGHT **OFF**
 MIXTURE **FULL RICH**
 BRAKES **HOLD**
 ENGINE RUN-UP **COMPLETE**

2000 RPM – CHECK MAGNETOS MAX 175 RPM DROP) (MAX DIFF. 50 RPM)
2000 RPM – PROP CONTROLS – CHECK GOVERNOR (3 TIMES ON FIRST FLIGHT OF THE DAY)
2000 RPM – CHECK ALTERNATE AIR (NO CHANGE)
2000 RPM – CHECK AMMETER (ALTERNATOR OUTPUT)
CHECK IDLE THAN 1000 RPM

BEFORE TAKE-OFF

DOORS AND WINDOWS **CLOSED**
 ENGINE RUN-UP **COMPLETED**
 PROPELLER **FULL FORWARD**
 MIXTURE **FULL FORWARD**
 FLAPS **” ” SET**
 FUEL PUMPS **ON**

LINE-UP SEQUENCE

PITOT HEAT **AS REQUIRED**
 LANDING AND STROBE LIGHTS **ON**

TRANSPONDER.....ALT

AFTER TAKE-OFF

LANDING GEAR **UP**
 FLAPS **UP**
 POWER (25@2500) **SET**
 LANDING LIGHT **OFF**
 FUEL PUMP **OFF**

CRUISE

ALTIMETERS (QNH / STD) **SET & X-CHECKED**
 POWER **SET**

INITIAL RECOMMENDED POWER SETTINGS 22 INCH @ 2200 RPM

ENGINE INSTRUMENTS **MONITOR**
 MIXTURE **LEAN AS DESIRED**

POWER SETTINGS, LEANING PROCEDURE NEED TO BE ACCOMPLISHED REFERRING TO AFM/POH RECOMMENDED POWER SETTINGS TABLES/CHARTS ACCORDINGLY TO YOUR FLIGHT.

APPROACH

ALITMETERS (QNH / STD) **SET & X-CHECKED**
 LANDING DATA ("RULE 5") **SET & X-CHECKED**

- IFR LANDING DATA**
1. NAV **FREQUENCY** GTN/GNS PROCEDURE SET
 2. FINAL APPROACH **COURSE** SET & X-CHECKED
 3. **MINIMUMS** NOTED, MEMORIZED
 4. **BACKUP** NAV SETTINGS FOR **MISSED APPROACH** PROCEDURE SET, CHECKED, BRIEFED
 5. **FINAL APPROACH AIRSPEED** BRIEFED, MEMORIZED
- VFR LANDING DATA**
1. COMM FREQUENECY SET
 2. RUNWAY IN USE, DIMENSIONS, SURFACE, CONDITION VERIFIED
 3. ELEVATION, TRAFFIC PATTERN VERIFIED
 4. AIRSPACE, AVIATION ACTIVITY AND OTHER TRAFFIC VERIFIED
 5. LANDING CONFIGURATION, LANDING TECHNIQUE BRIEFED

FUEL PUMP **ON**
 APPROACH BRIEFING **COMPLETED**
 BRAKES **CHECK PRESSURE**
 MIXTURE **FULL RICH**
 CABIN HEATER **AS REQUIRED**

BEFORE LANDING

LANDING GEAR	DOWN / 3 GREEN
FLAPS	“ ” SET
PROPELLER	FULL FORWARD
MIXTURE	FULL FORWARD
LANDING LIGHT	ON
FUEL PUMP	ON

AFTER LANDING SEQUENCE

FLAPS	UP
TRANSPONDER	STBY
PITOT HEAT	OFF
FUEL PUMP	OFF
FIN STROBE LIGHT	ON

ENGINE SHUT-DOWN

PARKING BRAKE	ON
LANDING/RECON LIGHTS	OFF
THROTTLE	IDLE
MIXTURE	LEAN TO OBTAIN MAX RPM
CABIN HEATER	OFF
COMM/NAV EQUIPMENT	ALL OFF
RADIO MASTER SWITCH	OFF
MIXTURE	IDLE CUT-OFF
MAGNETOS	OFF
FUEL QUANTITY	NOTE
ONBLOCK TIME	NOTE
LIGHTS AND SWITCHES	OFF
BATTERY MASTER SWITCH	OFF

SECURING AIRCRAFT

CONTROL LOCK	INSTALLED
PITOT, ENGINE INLETS, CONOPY COVERS	INSTALLED
CHOCKS	AS REQUIRED
TIE DOWN PROCEDURE	AS REQUIRED
TECHNICAL LOGBOOK	FILLED

EMERGENCY GEAR EXTENSION

MASTER/GEAR CIRCUIT BRAKERS..... **IN**
MASTER..... **ON**
LANDING GEAR LIGHTS **CHECK**
AIRSPEED **<87 KTS**
EMERGENCY GEAR LEVER EXTENSION..... **DOWN**
LANDING GEAR LIGHTS **VERIFY 3 GREEN**

AIRSPEEDS FOR SAFE OPERATION [KIAS]		
V _{NE}	Never Exceed Speed	183 KIAS
V _{NO}	Maximum Structural Cruising Speed	146 KIAS
V _A	Maximum Manoeuvring Speed	118 KIAS
V _{LE}	Maximum Speed for Gear Extension / Retraction	129 / 107 KIAS
V _{LO}	Maximum Speed Gear Extended	129 KIAS
V _{FE}	Maximum Speed Flap Extended	103 KIAS
V _Y	Best rate-of-climb speed	90 KIAS
V _X	OEI Best angle of climb (best gradient)	78 KIAS
V _{AP}	Recommended normal approach speed (All Flaps)	80 KIAS
V _{AP2}	Short field approach speed (Flaps FULL)	75 KIAS
POWER OFF GLIDE SPEED		79 KIAS
Maximum Speed for Abnormal Gear Extension		87 KIAS
NORMAL CHECKLIST COLOUR AND IT'S PROPER USE		
COLOUR	CHECKLIST TYPE	COMPLETION STANDARDS
BROWN	GROUND	READ AND DO
BLUE	AIRBORNE	READ TO VERIFY DONE
<u>WHITE</u> (UNDERLINED)	<u>SEQUENCES</u>	ALL TASKS MUST BE COMPLETED BY MEANS OF MEMORY ITEMS AND MEMORY FLOW PATTERNS
SHADOWED GRAY	INFORMATION DATA BEFORE LANDING ITEMS	ALL DATA SHOWN IN GRAY BOXES MUST BE LEARN ON MEMORY, IT IS ESSENTIAL TO KNOW THE AIRCRAFT LIMITATIONS. IF THERE IS NO SUFFICIENT TIME TO PERFORM CHECKLIST (FOR EXAMPLE SHORT FINAL IN ROUGH AIR) SHADOWED ITEMS MUST BE COMPLETED FROM MEMORY