**PREFLIGHT INSPECTION**

1. CABIN
   1. CONTROL WHEEL LOCK REMOVE
   2. IGNITION SWITCH OFF
   3. MASTER SWITCH ON
   4. FUEL QUANTITY INDICATORS CHECK
   5. MASTER SWITCH OFF
   6. FUEL SHUTOFF VALVE ON
2. EMPENNAGE
   1. RUDDER GUST LOCK REMOVE
   2. TAIL TIE-DOWN DISCONNECT
   3. CONTROL SURFACES CHECK
3. RIGHT WING TRAILING EDGE
   1. AILERON CHECK
4. RIGHT WING
   1. WING TIE-DOWN DISCONNECT
   2. MAIL WHEEL TIRE CHECK
   3. FUEL CONDITION CHECK

ONLY FIRST FLIGHT OF THE DAY

* 1. FUEL QUANTITY CHECK
  2. FUEL FILLER CAP SECURE

1. NOSE
   1. ENGINE OIL LEVEL CHECK
   2. FUEL CONDITION CHECK

ONLY FIRST FLIGHT OF THE DAY

* 1. PROPELLER AND SPINNER CHECK
  2. CARBURETOR AIR FILTER CHECK
  3. LANDING LIGHT(S) CHECK
  4. NOSE WHEEL STRUT AND TIRE CHECK
  5. NOSE TIE-DOWN DISCONNECT
  6. STATIC SOURCE OPENING CHECK

Continued….

1. LEFT WING
   1. MAIN WHEEL TIRE CHECK
   2. FUEL CONDITION CHECK

ONLY FIRST FLIGHT OF THE DAY

* 1. FUEL QUANTITY CHECK
  2. FUEL FILLER CAP SECURE

1. LEFT WING LEADING EDGE
   1. PITOT TUBE & COVER REMOVE & CHECK
   2. STALL WARNING OPENING CHECK
   3. FUEL TANK VENT OPENING CHECK
   4. WING TIE-DOWN DISCONNECT
2. LEFT WING TRAILING EDGE
   1. AILERON CHECK

**BEFORE STARTING ENGINE**

1. PREFLIGHT INSPECTION COMPLETE
2. SEATS, BELTS &

SHOULDER HARNESSES ADJUST & LOCK

1. FUEL SHUTOFF VALVE ON
2. RADIOS & ELECTRICAL EQUIPMENT OFF
3. BRAKES TEST & SET
4. CIRCUIT BREAKERS CHECK IN

**STARTING ENGINE (TEMP ABOVE FREEZING)**

1. MIXTURE RICH
2. CARBURETOR HEAT COLD
3. PRIME AS REQUIRED
4. THROTTLE OPEN 1/2 INCH
5. PROPELLER AREA CLEAR
6. MASTER SWITCH ON
7. IGNITION SWITCH START
8. THROTTLE 1000 RPM OR LESS
9. OIL PRESSURE CHECK

**BFORE TAKEOFF**

1. PARKING BRAKE SET
2. CABIN DOORS CLOSED & LATCHED
3. FLIGHT CONTROLS FREE & CORRECT
4. FIGHT INSTRUMENTS SET
5. FUEL SHUTOFF VALVE ON
6. MIXTURE RICH
7. ELEVATOR TRIM TAKEOFF
   1. THROTTLE 1700 RPM
   2. MAGNETOS CHECK
   3. CARBURETOR HEAT CHECK
   4. ENGINE INSTRUMENTS AND AMMETER CHECK
   5. SUCTION GAGE CHECK
8. RADIOS SET
9. LIGHTS AS REQUIRED
10. THROTTLE FRICTION LOCK ADJUST
11. BRAKES RELEASE

**TAKEOFF**

**NORMAL TAKEOFF**

1. WING FLAPS 0° - 10°
2. CARBURETOR HEAT COLD
3. THROTTLE FULL OPEN
4. ELEVATOR CONTROL LIFT NOSE WHEEL AT 50 KIAS
5. CLIMB SPEED 65-75 KIAS

**SORT FIELD TAKEOFF**

1. WNG FLAPS 10°
2. CRBURETOR HEAT COLD
3. BAKES APPLY
4. TROTTLE FULL OPEN
5. MXTURE RICH
6. BAKES RELEASE
7. EEVATOR CONTROL SLIGHTLY TAIL LOW
8. CIMB SPEED 54 KIAS
9. WING FLAPS RETRACT @ 60 KIAS

**ENROUTE CLIMB**

1. AIRSPEED 70-80 KIAS
2. THROTTLE FULL OPEN
3. MIXTURE RICH < 3000, LEAN MAX RPM > 3000

**CRUISE**

1. POWER 1900-2550 RPM (MAX 75%)
2. ELEVATOR TRIM ADJUST
3. MIXTURE LEAN

**BEFORE LANDING**

1. SEATS, BELTS, HARNESSES ADJUST & LOCK
2. MIXTURE RICH
3. CARBURETOR HEAT ON

**LANDING**

**NORMAL LANDING**

1. AIRSPEED 60-70 KIAS (FLAPS UP)
2. WING FLAPS AS DESIRED (BELOW 85 KIAS)
3. AIRSPEED 55-65 KIAS (FLAPS DOWN)
4. TOUCHDOWN MAIN WHEELS FIRST
5. LANDING ROLL LOWER NOSE WHEEL GENTLY
6. BRAKING MINIMUM REQUIRED

**SHORT FIELD LANDING**

1. AIRSPEED 60-70 KIAS (FLAPS UP)
2. WING FLAPS 30° (BELOW 85 KIAS)
3. AIRSPEED MAINTAIN 54 KIAS
4. POWER REDUCE TO IDLE AS OBSTACLE IS CLEARED
5. TOUCHDOWN MAIN WHEEL FIRST
6. BRAKES APPLY HEAVILY
7. WING FLAPS RETRACT

**BALKED LANDING**

1. THROTTLE FULL OPEN
2. CARBURETOR HEAT COLD
3. WING FLAPS RETRACT TO 20°
4. AIRSPEED 55 KIAS
5. WING FLAPS RETRACT (SLOWLY)

**AFTER LANDING**

1. WING FLAPS UP
2. CARBURETOR HEAT COLD

**SECURING AIRPLANE**

1. PARKING BRAKE SET
2. RADIOS, ELECTRICAL EQUIPMENT OFF
3. MIXTUREIDLE CUT-OFF
4. IGNITION SWITCH OFF
5. MASTER SWITCH OFF
6. CONTROL LOCK INSTALL