## **BEFORE STARTING THE ENGINE**

SEATS AND SEAT BELTS ADJUST AND LOCK

FUEL SELECTOR BOTH ON (TABS 22 Gals)

FUEL SHUT-OFF VALVE KNOB CHECK SAFETY WIRED TO ON" POSITION"

RADIOS AND FLASHING VEACON OFF""

BRAKES TEST AND SET

## STARTING THE ENGINE

MIXTURE RICH
CARBURETOR HEAT COLD
MASTER SWITCH ON""

PRIMER 2-6 STROKES (NONE WHEN ENGINE IS WARM). PRIMER LOCKED

THROTTLE OPEN 1/8 INCH

PROPELLER AREA CLEAR IGNITION SWITCH START""

RELEASE IGNITION SWITCH TO BOTH" WHEN ENGINE STARTS"

OIL PRESSURE CHECK

RADIOS TURN ON AND SET

ALTIMETER AND CLOCK SET

## **BEFORE TAKE-OFF**

PARKING BRAKE SET

CABIN DOORS CLOSED AND LOCKED

FLIGHT CONTROLS CHECK

TRIM TAB TAKE-OFF" SETTING"

THROTTLE SETTING 1700 RPM ENGINE INSTRUMENTS AND AMMETER CHECK

CARBURETOR HEAT CHECK OPERATION

MAGNETOS NOT EXCEED 125 RPM ON EITHER MAGNETO OR 50 RPM DIFFERENTIAL

AUXILIARY FUEL PUMP CHECK OPERATION

SUCTION GAGE CHECK (4.6 TO 5.4 INCHES OF MERCURY)

FLIGHT INSTRUMENTS AND RADIOS SET

WING FLAPS FLAPS 10<sup>0</sup>

NAVIGATIONS LIGHTS AND FLASHING B ON"
OPTIONAL AUTOPILOT OR WING LEVELE OFF"

## **NORMAL TAKE-OFF**

WING FLAPS FLAPS 10<sup>0</sup>
CARBURETOR HEAT COLD

POWER FULL THROTTLE (APPLIED SMOOTHLY)

AIRPLANE ATTITUDE LIFT NOSE WHEEL AT 50K CLIMB SPEED ROTATE 50K 65K Vx 79K Vy

RETRACT FLAPS (IF EXTENDED)

**MAXIMUM PERFORMANCE TAKE-OFF** 

WING FLAPS FLAPS 10<sup>0</sup>
CARBURETOR HEAT COLD
BRAKES APPLY

POWER FULL THROTTLE

BRAKES RELEASE

AIRPLANE ATTITUDE SLIGHTLY TAIL LOW

CLIMB SPEED 57K Vx 75K Vy

WING FLAPS RETRACT AFTER OBSTACLES ARE CLEARED

**NORMAL CLIMB** 

AIRSPEED 85K

POWER FULL THROTTLE

MIXTURE FULL RICH (MISTURE MAY BE LEANED ABOVE 5000 FEET

**MAXIMUM PERFORMANCE CLIMB** 

AIRSPEED 88 MPH AT SEA LEVEL TO 85 MPH AT 10,000 FEET

POWER FULL THROTTLE

MIXTURE FULL RICH (MIXTURE MAY BE LEANED ABOVE 3000 FEET)

**CRUISING** 

POWER 2200 TO 2700 RPM

TRIM TAB ADJUST

MIXTURE LEAN WHEN POWER SETTING IS 75% OR LESS

**LET-DOWN** 

MIXTURE RICH

POWER AS DESIRED

CARBURETOR HEAT AS REQUIRED TO PREVENT CARBURETOR ICING

**BEFORE LANDING** 

FUEL SELECTOR BOTH ON""

MIXTURE RICH

CARBURETOR HEAT APPLY FULL HEAT BEFORE CLOSING THROTTLE

AIRSPEED 80 TO 90 MPH (FLAPS UP) WING FLAPS 115K/10<sup>0</sup> 90K/10<sup>0</sup>-30<sup>0</sup> AIRSPEED 60-70K (FLAPS DOWN)

TRIM TAB ADJUST

**BALKED LANDING (GO-AROUND)** 

POWER FULL THROTTLE

CARBURETOR HEAT COLD

WING FLAPS RETRACT TO 1/2 - at 75MPH 100%

**AFTER LANDING** 

WING FLAPS UP CARBURETOR HEAT COLD

**SECURE AIRCRAFT** 

MIXTURE IDLE CUT-OFF (PULLED FULL OUT)

ALL SWITCHES OFF BRAKES SET

CONTROL LOCK INSTALLED