

## TAKEOFF

THROTTLE.....FULL  
ENGINE INSTRUMENTS.....CHECK  
ROTATE AT 60 KTS, ESTABLISH  $V_y/V_x$   
CLIMB SPEED AS APPROPRIATE

## CLIMB

PASSING 1000 FT AGL OR LEAVING APT  
CRUISE CLIMB.....87KTS  
FLAPS.....UP  
LANDING LIGHT.....OFF  
FUEL PUMP.....OFF

## CRUISE

POWER.....SET  
MIXTURE.....LEAN AS REQ  
FUEL SELECTOR.....PROPER TANK  
INSTRUMENTS.....CHECK

## APPROACH

15 NM FROM DEST. AIRPORT

ATIS/AWOS.....CHECK  
CTAF/TWR FREQ.....LOAD  
APPROACH BRIEF.....COMPLETE  
APPROACH PROC.....LOAD (AND ID IF REQ.)  
DEST ALTIMETER.....SET  
MIXTURE.....RICH IN DESCENT  
FUEL SELECTOR.....PROPER TANK  
CARB HEAT.....AS REQ  
LANDING LIGHT.....ON  
SEAT BELTS.....FASTENED

## PRE LANDING

POWER.....REDUCE  
FLAPS.....SET  
MIXTURE.....RICH  
FUEL PUMP.....ON  
FUEL SEL.....PROPER TANK  
CARB HEAT.....AS REQ

## GO AROUND

POWER.....FULL  
CLIMB.....ACCOMPLISH  
FLAPS.....RETRACT IN CLIMB  
NOTIFY ATC OR MAKE CALL ON CTAF

## AFTER LANDING

FLAPS.....UP  
CARB HEAT.....OFF  
FUEL PUMP.....OFF  
WING STROBES.....OFF  
PITOT HEAT.....OFF  
MIXTURE.....LEAN FOR TAXI  
TRIM.....TAKEOFF  
(IF IFR) FLIGHT PLAN.....CANCEL

## SECURING

XPDR CODE.....1200  
AVIONICS.....OFF  
MIXTURE.....CUTOFF  
MAGS.....OFF  
LIGHTS.....OFF  
BATT MASTER/ALT.....OFF  
HOBBS/TACH.....RECORD  
CONTROLS.....LOCK  
TIEDOWNS.....REPLACE  
PITOT COVER.....INSTALL  
DOORS.....SECURE  
*CHECK TO ENSURE ALL ITEMS ARE  
REMOVED*

**REMEMBER TO CLOSE YOUR FLIGHT  
PLAN**

### AIRCRAFT V SPEEDS (KIAS)

$V_r$  - 60  $V_x$  - 64  $V_y$  - 76  $V_{so}$  - 49  $V_s$  - 55  
 $V_g$  - 76  $V_a$  - 113  $V_{no}$  - 125  $V_{ne}$  - 154  
 $V_{fe}$  - 102  $V_{appch}$  - 75

**CSAC Front Desk: 281-993-1151**

LVJ CTAF: 122.725    LVJ ASOS: 118.525  
APP/DEP: 134.45    CLNC DEL: 124.0  
PRACTICE AREA 123.5



## NORMAL CHECKLIST N47820

### PREFLIGHT

WEATHER BRIEF.....OBTAIN  
TOL/CRUISE FIGURES.....COMPUTE  
MX INSPECTIONS.....VERIFY  
FLIGHT PLAN.....FILE  
ACFT. DOCUMENTS.....INSPECT  
TIE DOWNS/COVERS.....REMOVE  
FUEL SELECTOR.....PROPER TANK  
CIRCUIT BREAKERS.....CHECK IN  
HOBBS/TACH.....RECORD  
ALT STATIC.....CHECK  
BATT MASTER.....ON  
PITOT HEAT.....TEST  
LIGHTS.....CHECK  
STALL TAB.....CHECK  
FUEL GAUGES.....VERIFY TRUE  
LIGHTS/PITOT HEAT.....OFF  
BATT MASTER.....OFF  
FLAPS.....EXTEND  
PITOT/STATIC LINE.....DRAIN  
AILERONS.....FULL LEFT  
FUEL LEVEL/QUALITY.....CHECK  
CAPS/DRAINS/VENTS.....CHECK  
ENGINE OIL.....CHECK (MIN 6 QT)  
PROP.....INSPECT  
ALTERNATOR BELT.....CHECK  
COWLING.....CHECK SECURE  
EXHAUST PIPES.....CHECK SECURE  
CONTROLS/SURFACES.....INSPECT  
PITOT/STATIC MAST.....INSPECT  
LANDING GEAR.....INSPECT  
ANTENNAS.....CHECK SECURE  
CHOCKS/TOWBAR.....REMOVE  
BAGGAGE DOOR.....CHECK SECURE  
FINAL WALK AROUND.....COMPLETE

## BEFORE START

FLAPS.....UP  
PASSENGER BRIEF.....ACCOMPLISH  
**S - SEATS AND SEATBELTS**  
**A - AIR VENTS**  
**F - FIRE**  
**E - EXITS**  
**T - TALKING/STERILE COCKPIT**  
**Y - YOUR QUESTIONS**  
SEATBELTS.....FASTENED  
BRAKES.....SET  
SEATS.....LOCKED  
AVIONICS MASTER.....OFF  
AUTOPILOT.....OFF  
CARB HEAT.....OFF  
BATT MASTER/ALT.....ON  
FIN STROBE.....ON

## ENGINE START

MIXTURE.....RICH  
THROTTLE.....SLIGHT  
FUEL PUMP.....ON  
IF COLD ENGINE.....PRIME  
PROP.....CLEAR  
MAG/EIS.....ON  
STARTER.....ENGAGE\*  
*\*IF ENGINE DOES NOT START WITHIN 5 SECONDS, STOP AND WAIT 10 SECONDS BEFORE ATTEMPTING TO START AGAIN.*  
ENGINE RPM.....1000  
FUEL PUMP.....OFF  
FUEL PRESSURE.....CHECK  
OIL PRESSURE/TEMP.....CHECK  
MIXTURE.....LEAN TO PEAK RPM

## PRE TAXI

NAV LIGHTS (NIGHT/LOW VIS).....ON  
HEAT (IF NEEDED).....ON  
FAN (IF NEEDED).....ON  
AVIONICS MASTER.....ON  
GPS DATABASE.....VERIFY CURRENT  
(IF IFR) WAAS/RAIM.....CHECK  
FREQUENCIES.....LOAD  
(CONTINUED ON NEXT PAGE)

ATIS/AWOS.....OBTAIN  
ALTIMETER.....SET  
IFR CLEARANCE.....OBTAIN\*  
*IF DEPARTING FROM NON-TOWERED FIELD, MAY BE DONE AFTER RUN-UP*  
FLIGHT PLAN.....LOAD  
XPDR.....ALT MODE/SQWK CODE  
FLIGHT INSTRUMENTS.....CHECK  
TAXI DIAGRAM.....CHECK  
TAXI ROUTE.....BRIEF  
LANDING LIGHT.....ON  
BRAKES.....RELEASE/TEST  
TAXI CLEARANCE.....OBTAIN\*  
*\*IF AT NON-TOWERED FIELD, ANNOUNCE INTENTIONS ON CTAF*  
INSTRUMENTS.....CHECK IN TURNS

## RUN UP

BRAKES.....SET  
TRIM.....SET TO TAKEOFF  
FLIGHT CONTROLS.....TEST  
INDICATOR LIGHTS.....TEST  
OIL TEMP.....CHECK  
MIXTURE.....RICH  
THROTTLE.....2000 RPM  
MAG/EIS.....TEST  
*EIS MAX DROP 30-40RPM, MAG MAX DROP 175RPM*  
CARB HEAT.....TEST  
AMPS/VOLTS.....CHECK  
OIL PRESS/TEMP.....CHECK  
THROTTLE.....IDLE CHECK  
THROTTLE.....1000RPM  
THROTTLE FRICTION.....CHECK

## PRE TAKEOFF

FLAPS.....SET  
MIXTURE.....BEST POWER  
FUEL PUMP.....ON  
CARB HEAT.....OFF  
DEPARTURE BRIEF.....ACCOMPLISH  
EMERGENCY PLAN.....BRIEF  
TRANSPONDER.....ALT/SQWK CODE  
DOOR/WINDOW.....SECURE

(CONTINUED ON NEXT PAGE)

LANDING LIGHT.....ON  
STROBES.....ON  
BRAKE.....RELEASE  
TIMER.....START

## EMERGENCY BRIEFING

**ENGINE ISSUE PRIOR TO ROTATION:**  
THROTTLE.....IDLE  
BRAKES.....SMOOTHLY APPLY  
STOP STRAIGHT AHEAD

**IF NOT ENOUGH RUNWAY REMAINS TO STOP:**

MIXTURE.....CUTOFF  
MAGS.....OFF  
BAT MASTER/ ALTERNATOR.....OFF  
FUEL SELECTOR.....OFF  
AVOID OBSTACLES

**ENGINE ISSUE AFTER ROTATION WITH SUFFICIENT RUNWAY REMAINING FOR A COMPLETE STOP:**

THROTTLE.....IDLE  
FLAPS.....AS REQ.  
LAND.....STRAIGHT AHEAD  
BRAKES.....SMOOTHLY APPLY

**ENGINE ISSUE AFTER ROTATION WITH NO RUNWAY REMAINING:**

AIRSPEED.....76KIAS  
FLAPS.....AS REQ.  
MIXTURE.....CUTOFF  
MAGS.....OFF  
BAT MASTER/ ALTERNATOR.....OFF  
FUEL SELECTOR.....OFF  
LAND AT LOWEST POSSIBLE AIRSPEED, WITHIN 30°, AND AVOID OBSTACLES

**\*CONTINUE PRE TAKEOFF CHECKLIST**