

SIA Sim C172
***** CESSNA 172SP *****
PREFLIGHT - CABIN

ARROW..... ON BOARD
 PARKING BRAKE..... ON
 IGNITION SWITCH..... OFF
 AVIONICS MASTER SWITCH..... OFF
 MASTER SWITCH (BAT)..... ON
 FUEL QUANTITY..... SUFFICIENT
 AVIONICS MASTER..... ON
 AVIONICS FAN..... AUDIBLE
 AVIONICS MASTER OFF
 STATIC PRESSURE ALTERNATE..... OFF
 WARNING LIGHTS PANEL..... TESTED
 FUEL SELECTOR VALVE..... BOTH
 FUEL SHUTOFF VALVE..... PUSHED IN
 FLAPS (10 20 FULL)..... TESTED
 FLAPS..... UP
 PITOT HEAT..... ON
 AMMETER CURRENT LOAD..... CHECK
 PITOT HEAT..... OFF
 MASTER SWITCH (BATTERY)..... OFF
 ELEVATOR TRIM..... SET FOR TAKEOFF

**BEFORE STARTING ENGINE
 CHECKLIST**

PREFLIGHT INSPECTION..... COMPLETED
 PASSENGER BRIEFING..... COMPLETED
 SEATS & BELTS..... ADJUSTED & SECURE
 CIRCUIT BREAKERS..... CHECKED IN
 ELECTRICAL EQUIPMENT..... OFF
 PARKING BRAKE..... ON
 AUTOPILOT..... OFF
 AVIONICS MASTER..... OFF
 FUEL SELECTOR VALVE..... BOTH
 FUEL SHUTOFF..... PUSHED IN

STARTING ENGINE CHECKLIST

MASTER SWITCH (BAT)..... ON
 BEACON LIGHT..... ON
 THROTTLE..... OPEN 1/4 INCH
 MIXTURE..... FULL RICH
 CARB HEAT..... COLD
 AUX FUEL PUMP..... ON (3 SECS)
 AUX FUEL PUMP..... OFF
 PROPELLER AREA..... CLEAR
 IGNITION SWITCH..... START
 OIL PRESSURE..... CHECKED
 MASTER SWITCH (ALTERNATOR)..... ON
 AMMETER..... CHECKED
 NAV LIGHTS..... ON (AT NIGHT)
 AVIONICS MASTER SWITCH..... ON
 RADIOS & GPS..... ON
 FLAPS..... UP

BEFORE TAXI CHECKLIST

FUEL QUANTITY..... CHECKED
 FLIGHT CONTROLS..... FREE & CORRECT
 SEATS & BELTS..... UPRIGHT & SECURE
 CABIN DOORS..... CLOSE
 FLIGHT INSTRUMENTS..... SET
 RADIOS & AVIONICS..... SET
 TRANSPONDER MODE..... STANDBY
 TAXI LIGHTS..... ON
 PARKING BRAKE..... OFF
 BRAKES..... CHECKED
 PARKING BRAKE..... ON

BEFORE TAKEOFF CHECKLIST

PARKING BRAKE..... ON
 MIXTURE..... FULL RICH
 FUEL SELECTOR VALVE..... BOTH
MAGNETO TEST
 THROTTLE..... OPEN 1800 RPM
 IGNITION SWITCH TO..... LEFT
 IGNITION SWITCH TO..... RIGHT
MAGNETO DROP/DIFF..... MAX 125/50
 IGNITION SWITCH TO..... BOTH
 THROTTLE..... 1000 RPM
 ENGINE INSTRUMENTS..... CHECKED GREEN
 WARNING LIGHTS PANEL..... CLEAR
 STROBE LIGHTS..... ON
 LANDING LIGHTS..... ON
 RADIOS & AVIONICS..... CHECKED AND SET
 AUTOPILOT..... OFF
 ELEVATOR TRIM..... SET FOR TAKEOFF
 FLAPS (0 or 10)..... AS REQUIRED

NORMAL TAKEOFF CHECKLIST

TAXI LIGHTS..... OFF
TRANSPONDER MODE..... ALTITUDE
FLAPS..... AS REQUIRED
MIXTURE..... FULL RICH
PARKING BRAKE..... OFF
THROTTLE..... FULL FORWARD
INSTRUMENTS & AIRSPEED..... GREEN&ALIVE
ELEVATOR-LIFT NOSE WHEEL AT.....60 KNOTS
CLIMB AIRSPEED 70 TO 85 KNOTS
FLAPS..... UP

CLIMB CHECKLIST

LANDING LIGHTS..... OFF
THROTTLE..... FULL
MIXTURE..... FULL RICH

CRUISE CHECKLIST

POWER (2100-2500 RPM)..... ADJUSTED
ELEVATOR TRIM..... ADJUSTED
MIXTURE..... LEAN
NAVAIDS & RADIOS..... SET
NAVIGATION..... ON COURSE
FLIGHT INSTRUMENTS..... CHECKED
ENGINE INSTRUMENTS.....CHECKED GREEN
FUEL QUANTITY..... SUFFICIENT

DESCENT CHECKLIST

POWER..... ADJUSTED
MIXTURE..... FULL RICH
ALTIMETER..... SET
NAV/GPS..... SET
FUEL SELECTOR..... BOTH
FLAPS..... AS REQUIRED

0-10 BELOW 110 KIAS

10-30 BELOW 85 KIAS

BEFORE LANDING CHECKLIST

SEATS BACKS & BELTS.... UPRIGHT & SECURE
FUEL SELECTOR..... BOTH
MIXTURE..... FULL RICH
LANDING LIGHTS..... ON
TAXI LIGHTS..... ON
AUTOPILOT..... OFF

NORMAL LANDING CHECKLIST

FLAPS..... AS REQUIRED
RECOMMENDED APPROACH SPEEDS
FLAPS UP 65 TO 75 KNOTS
FLAPS DOWN 60 TO 70 KNOTS
TOUCHDOWN MAINS FIRST-LOWER NOSE GENTLY
BRAKES..... MINIMUM POSSIBLE
FLAPS..... UP

AFTER LANDING CHECKLIST

FLAPS..... UP
LANDING LIGHTS..... OFF
STROBE LIGHTS..... OFF
NAV LIGHTS..... OFF
TRANSPONDER..... STANDBY

ENGINE SHUTDOWN CHECKLIST

PARKING BRAKE..... ON
TRANSPONDER..... OFF
ELECTRICAL EQUIPMENT..... OFF
AUTOPILOT..... OFF
AVIONICS MASTER SWITCH..... OFF
THROTTLE..... 1000/1200 RPM
MIXTURE..... CUTOFF SMOOTHLY
TAXI LIGHTS..... OFF
BEACON LIGHT..... OFF
IGNITION SWITCH..... OFF
MASTER SWITCH (ALT)..... OFF
MASTER SWITCH (BAT)..... OFF
CONTROL LOCK..... INSTALLED
FUEL SELECTOR VALVE..... LEFT or RIGHT

CESSNA 172SP PERFORMANCE LIMITS

MAX AIRSPEED (Vne)..... 163kias
MAX CRUISE (Vno)..... 129kias
MAX MANEUVERING SPEED (Va)..... 105kias
FLAPS EXTENDED(Vfe-10 DEG)..... 110kias MAX
FLAPS EXTENDED(Vfe-20/30 DEG). 85kias MAX
FUEL CAPACITY (MAX)..... 56 US GAL
FUEL CAPACITY (USEABLE)..... 53 US GAL
ENDURANCE (8500ft,75% PWR,53 GAL).. 4.2hrs
RANGE (8500 FT, 75% PWR, 53 GAL)..... 518nm
ENDRNCE@10000ft,45% PWR,53 GAL..... 6.7hrs
RANGE@10000ft,45% PWR,53 GAL..... 638nm
MAX GROSS WEIGHT..... 2,558 LBS
EMPTY WEIGHT..... 1,663 LBS
USEFUL LOAD..... 895 LBS
SERVICE CEILING..... 14,000 FT
CLIMB RATE (SEA LEVEL)..... 730 FPM
TAKEOFF GROUND ROLL..... 960 FT
T/O DISTANCE OVER 50 FT OBST..... 1,630ft
LANDING GROUND ROLL..... 575 FT
LNDNG DIST OVER 50ft OBSTACLE..... 1,335ft
MAX CROSSWIND TAKEOFF/LANDING... 15kias