

172RK (C172SP)



PREFLIGHT INSPECTION

First Items

PITOT GATOR REMOVE AND SECURE
TIE-DOWN REMOVE AND SECURE
FUEL QUANTITY CHECK VISUALLY
FUEL SUMPS DRAIN AND CHECK
OIL LEVEL CHECK

Interior

FIRE EXTINGUISHER CHECK GAUGE
AROW & COMPASS CARD PRESENT
CONTROL WHEEL LOCK REMOVE AND SECURE
CIRCUIT BREAKERS CHECK IN
AVIONICS MASTER SWITCH OFF
MASTER SWITCH ON
AVIONICS FAN CHECK
EXTERIOR LIGHTS CHECK
PITOT HEAT CHECK
FLAPS FULLY EXTEND
MASTER SWITCH OFF
FUEL SELECTOR BOTH
FUEL SHUTOFF VALVE IN

Empennage

BAGGAGE DOOR & WINDOW CHECK
BODY & EXTERNAL DATA PLATE CHECK
STABILIZERS & CONTROL SURFACES CHECK
ANTENNAS CHECK

Right Wing

TRAILING AND LEADING EDGE CHECK
FLAP AND AILERON CHECK
WHEEL, TIRE, BRAKES CHECK
FUEL CHECK AND SECURE CAP

Nose

WINDSHIELD CLEAN
OIL CHECK & SECURE
ENGINE INLETS, FILTER, PROP, SPINNER INSPECT
NOSE WHEEL TIRE & STRUT CHECK
STATIC PORT CHECK

Left Wing

FUEL CHECK AND SECURE CAP
PITOT TUBE CHECK
STALL HORN OPENING CHECK
FUEL TANK VENT CHECK
WHEEL, TIRE, BRAKES CHECK
TRAILING AND LEADING EDGE CHECK
FLAP AND AILERON CHECK

BEFORE TAXI

AIRPORT DIAGRAM OUT / AVAILABLE
LANDING & TAXI LIGHTS NIGHT OR IFR
TAXI AREA CLEAR
BRAKES CHECK
TAXI CLEARANCE OBTAIN / BRIEF
IFR FLIGHTS CHECK INSTRUMENTS IN TURN

BEFORE TAKEOFF

ANNUNCIATOR PANEL LIGHTS CHECK
MIXTURE AS REQ
THROTTLE 1800 RPM
MAGNETOS CHECK
(MAX DROP 150 RPM)
ENGINE INSTRUMENTS, VAC, & AMPS CHECK
THROTTLE IDLE / CHECK 600-800 RPM
THROTTLE 1000 RPM
EMERGENCY RESPONSE BRIEF
FLIGHT CONTROLS FREE & CORRECT
FLIGHT INSTRUMENTS CHECK & SET
TRIM SET T/O
FLAPS SET
GPS SET
ENGINE INSTRUMENTS CHECK
SEATS & SEATBELTS LOCKED & FASTENED

FINAL ITEMS

DOORS & WINDOWS CLOSED & LOCKED
STROBE & LANDING LIGHT ON
TRAFFIC CHECK
MIXTURE AS REQ
SET FRQ / CONTACT TWR CHECK

AFTER TAKEOFF

CRUISE CLIMB CHECK
FLAPS UP
LANDING LIGHT OFF

CRUISE

POWER SET
ENGINE INSTRUMENTS CHECK
MIXTURE LEAN
HEADING INDICATOR SET TO COMPASS

..ENGINE FAILURE IN FLIGHT..

AIRSPEED Vg 68 KIAS
FUEL SHUTOFF VALVE ON/IN
FUEL SELECTOR VALVE BOTH
FUEL PUMP ON
FLAPS UP
MIXTURE RICH
MAGNETOS CHECK ALL

IF PROP NOT WINDMILLING

IGNITION SWITCH START
MAGNETOS CHECK ALL

**DECLARE EMERGENCY
SECURE ENGINE**

..ENGINE SECURE / POWER OFF LAND..

LANDING AREA SELECT & INSPECT
AIRSPEED Vg 68 KIAS
MIXTURE CUTOFF
FUEL SHUTOFF VALVE OFF
IGNITION & ELECTRICAL SWITCH OFF
FLAPS AS REQ
MASTER SWITCH OFF
DOORS (Prior to touchdown) UNLATCH
BRAKES APPLY HEAVILY

..ENGINE FIRE IN FLIGHT..

DECLARE EMERGENCY

MIXTURE IDLE CUT OFF
FUEL SHUTOFF VALVE OFF
FUEL PUMP OFF
MASTER SWITCH OFF
AIRSPEED 100 KIAS glide
CABIN HEAT & AIR OFF
IF FIRE PERSISTS INCREASE SPEED

DO NOT ATTEMPT ENGINE RESTART

..EMERGENCY DESCENT..

THROTTLE IDLE
DESCENDING TURNS 30° 45° BANK
AIRSPEED 100 KIAS

DECLARE EMERGENCY

..CABIN FIRE..

MASTER SWITCH OFF
VENTS, CABIN HEAT & AIR CLOSED
FIRE EXTINGUISHER ACTIVATE

WHEN FIRE IS OUT

CABIN VENTILATE
LAND AS SOON AS POSSIBLE

172RK (C172SP)

V – SPEEDS

Vso.....	40 KIAS
Vs1.....	48 KIAS
Vr.....	55 KIAS
Vx (50 ft obst.)	56 KIAS
Vx	62 KIAS
Vg	68 KIAS
Vy	74 KIAS
Vfe.....	85 KIAS
Va	90-105 KIAS
Vno	129 KIAS
Vne	163 KIAS

LOCAL FREQUENCIES

CLL ATIS	126.85
CLL Ground	128.70
CLL Tower	118.50
HOU Departure.....	134.30
Flight Service	122.65
CFD	123.00
RWV, LHB, 60R.....	122.90
11R.....	123..07

SQUAWK CODES

7500	HIJACKING
7600.....	LOST COMMS
7700.....	EMERGENCY

VFR APPROACH

WEATHER.....CHECK
 ALTIMETER.....SET
 HEADING INDICATOR.....SET
 FUEL SELECTOR.....BOTH
 PARKING BRAKE.....CHECK RELEASED
 LANDING LIGHT.....ON
 AIRPORT DIAGRAM AVAILABLE.....CHECK
 SEAT BELTS.....FASTENED
 CALL TWR / CTAF.....10-15NM OUT

IFR APPROACH

WEATHER.....CHECK
 ALTIMETER.....SET
 HEADING INDICATOR.....SET
 APPROACH.....BRIEF AND LOAD
 FUEL SELECTOR.....BOTH
 PARKING BRAKE.....CHECK RELEASED
 LANDING LIGHT.....ON
 SEAT BELTS.....FASTENED
 —WHEN DIRECT TO IAF OR VECTORED—
 FLIGHT & NAV INSTRUMENTS.....SET/IDENT
 GPS.....ACTIVATE APPROACH
 AIRSPEED.....90 KIAS

BEFORE LANDING

FUEL SELECTOR.....BOTH
 POWER.....SET
 MIXTURE.....AS REQ
 FLAPS.....AS REQ

AFTER LANDING

TRIM.....CENTERED
 FLAPS.....UP
 MIXTURE.....LEAN
 TAXI CLEARANCE.....OBTAIN & BRIEF

SHUTDOWN

TRANSPONDER.....1200
 AVIONICS MASTER.....OFF
 THROTTLE.....1000 RPM
 MIXTURE.....CUTOFF
 IGNITION.....OFF
 MASTER SWITCH.....OFF
 ELECTRICAL SWITCHES.....OFF
 RECORD TIMES.....COMPLETE
 FLIGHT CONTROLS.....SECURE
 TIEDOWN / CHOCK.....SECURE
 PITOT GATOR.....INSTALL

BEFORE START

NOSE AND CHOCKS AREA.....CLEAR
 PASSENGER BRIEF.....SAFETY
 Seats & Seatbelts, Air Vents, Fire Extinguisher, Exits & Emergency, Traffic Scanning & Talking, Your questions?
 SEAT & SEAT BELTS.....ADJUST AND LOCK
 CIRCUIT BREAKERS.....CHECK IN
 ALL SWITCHES.....OFF
 ALTERNATE STATIC SOURCE.....OFF
 FUEL SELECTOR VALVE.....BOTH
 FUEL SHUTOFF VALVE.....IN
 MASTER SWITCH.....ON
 BEACON.....ON
 NAV LIGHT.....NIGHT ONLY
 FUEL GAUGES.....CHECK

WARM or COLD START

Warm Start

MIXTURE.....CUTOFF

Cold Start

MIXTURE.....RICH
 THROTTLE.....OPEN
 FUEL PUMP.....(Check Pressure Alt, 3-6 seconds)
 MIXTURE.....CUTOFF
 WAIT.....60 SECONDS

STARTING ENGINE

THROTTLE.....1/4" OPEN
 BRAKES.....HOLD
 PROP AREA.....CLEAR
 IGNITION.....START
 MIXTURE.....(Advance smoothly as engine starts) RICH

AFTER START

THROTTLE.....1000 RPM
 OIL PRESSURE.....CHECK GREEN
 MIXTURE.....LEAN
 THROTTLE.....1000 RPM
 FLAPS.....UP
 AVIONICS SWITCH.....ON
 HEADSETS.....ON
 COMS.....SET FREQS
 WEATHER.....CHECK
 ALTIMETER.....SET
 FLIGHT INSTRUMENTS.....CHECK
 TRANSPONDER.....SET CODE / ALT MODE
 GPS & NAV.....SET