

# C-172N CESSNA SKYHAWK CHECKLIST

# EAST COAST AERO CLUB

## PREFLIGHT

### COCKPIT SAFETY CHECK

Magnetos .....OFF, KEY OUT  
Mixture .....CUTOFF  
Throttle .....CLOSED

Hobbs & Tach .....RECORD  
Documents (A(R)ROW) .....CHECK  
Flight controls lock .....REMOVE  
Parking brake released.....AS REQUIRED  
Avionics/Radios ..... OFF  
Electrical switches ..... OFF  
Master switches **PROP CLEAR** ..... ON  
Fuel gauges ..... CHECK  
Pitot heat .....ON, CHECK, OFF  
(Only if required)  
Exterior lights .....ON, CHECK, OFF  
Flaps .....EXTEND  
Master switch ..... OFF  
Altimeter ..... FIELD ELEVATION  
Magnetic compass & deviation card .....CHECK  
Fuel selector .....BOTH  
Alternate static ..... OFF  
Fire extinguisher .....CHECK  
Windows.....CHECK

## EMPENNAGE

General Condition ..... CHECK  
Baggage door..... Un-locked & LATCHED  
Tie down ..... REMOVE  
Elevator.....CHECK & CLEAR  
Trim tab ..... CHECK & CLEAR  
Rudder ..... CHECK & CLEAR  
Antennas ..... CHECK

## RIGHT WING

General condition .....CHECK & CLEAR  
Flap .....CHECK  
Aileron .....CHECK  
Wingtip ..... CHECK  
Tie down/chock .....REMOVE  
Main gear & Brakes .....CHECK  
Fuel tank sump..... DRAIN & NO DRIPS  
Fuel tank & Quantity ..... CHECK  
Fuel cap & Vent ..... CHECK  
Fresh air inlet ..... CHECK

## NOSE

General condition & leaks ..... CHECK  
Fuel drain ..... DRAIN & NO DRIPS  
Oil (6 Qts) ..... CHECK  
Propeller & spinner ..... CHECK  
Alternator belt .....CHECK  
Air inlets ..... CHECK  
Air filter ..... CHECK  
Nose gear & strut ..... CHECK  
Chock & Tow Bar ..... REMOVE  
Static port ..... CHECK

## LEFT WING

General condition ..... CHECK & CLEAR  
Fresh air inlet ..... CHECK  
Stall horn ..... CHECK  
Pitot .....CHECK  
Tie down/chock ..... REMOVE  
Fuel tank sump.....DRAIN & NO DRIPS  
Fuel tank vent ..... CHECK  
Fuel tank & Quantity ..... CHECK  
Fuel cap & Vent ..... CHECK  
Wingtip ..... CHECK  
Aileron ..... CHECK  
Flap ..... CHECK  
Main gear & Brakes ..... CHECK

## BEFORE ENGINE START

Tail Lock ..... IN COCKPIT  
Passenger briefing ..... COMPLETE  
Seats & seat belts ..... SECURE  
Circuit breakers ..... CHECK  
Electrical switches ..... OFF  
Avionics/Radio master ..... OFF  
Fuel selector ..... BOTH  
Brakes ..... HOLD

## ENGINE START

Mixture ..... RICH  
Carb heat ..... OFF  
Throttle ..... 1/8" OPEN  
Master switches ..... ON  
Beacon ..... ON  
Primer if COLD...2-6 STROKES and LOCKED  
**PROPELLER AREA** .....CLEAR  
Starter ..... ENGAGE

Throttle .....800 RPM (No Higher Than 1000)  
Oil pressure ..... CHECK  
Mixture ..... LEAN

## BEFORE TAXI

Flaps ..... CHECK RETRACTED  
Avionics/Radio master ..... ON  
Transponder (1200) ..... ALT  
Radios ..... SET  
ATIS ..... CHECK  
Flight instruments ..... SET  
Navigation..... SET  
Radio ..... CLNC, GROUND/CTAF  
#2 Radio ..... MONITOR 121.5  
Lights .....AS APPROPRIATE

## TAXI

Parking Brake .....RELEASE  
Brakes .....CHECK  
Flight instruments .....CHECK

## ENGINE RUNUP

Brakes ..... SET & HOLD  
Oil Temp ..... IN THE GREEN  
Fuel selector ..... BOTH  
Mixture (below 3000') ..... RICH  
Primer ..... LOCKED  
Throttle ..... 1700 RPM  
Mags (drop 125,diff 50) .....CHECK  
Vacuum (4.6-5.4") ..... CHECK  
Engine indicators .....CHECK  
Ammeter Check .....CHECK  
TURN ON ONLY EQUIPMENT & LTS EXPECTED FOR FLT.  
EXTEND FLAPS ONLY FOR SHORT OR SOFT FIELD T/O  
Carb heat (RPM drop - NO RISE).....ON  
Carb heat .....OFF  
Throttle (min 500 RPM) ..... IDLE  
Throttle ..... 1000 RPM

## BEFORE TAKEOFF

Pitot heat ..... AS REQUIRED  
Flight instruments ..... CHECK  
Trim ..... TAKEOFF  
Flight controls ..... CHECK  
Flaps .....NORMAL/SHORT 0°, SOFT 10°  
Seats & seat belts ..... SECURE  
Doors & windows ..... SECURE  
Takeoff briefing ..... COMPLETE  
Radio ..... TOWER/CTAF  
Lights WHEN CLRD FOR TAKEOFF ... AS APPROPRIATE

## FREQUENCIES

### HANSCOM - KBED

ATIS .....124.6  
GROUND .....121.7  
TOWER .....118.5  
BOS APP .....124.4  
Signature (or 781-274-0010).....130.8

## PRACTICE AREA - ALL .....123.5

### NORWOOD - KOWD

ATIS .....119.95  
GROUND .....121.8  
TOWER .....126.0  
BOS APP ..... 120.6 / 124.1

## EMERGENCY (GUARD)..... 121.5

### NASHUA - KASH

ATIS .....125.1  
GROUND .....121.8  
TOWER .....133.2  
BOS APP .....124.9

# C-172N CESSNA SKYHAWK CHECKLIST

# EAST COAST AERO CLUB

## TAKEOFF

Carb heat ..... COLD  
Mixture (below 3000') ..... RICH  
Throttle ..... FULL  
**Power 2270-2370 RPM = STATIC .... CHECK**  
Engine gauges ..... CHECK  
Airspeed ..... CHECK  
Rotate ..... 52 KTS / 60 MPH

## CLIMB

Flaps.....RETRACT AT SAFE SPEED (57 KTS)  
Airspeed (cruise climb) 70-78 KTS /500'/MIN  
80-90 MPH

## CRUISE

Power .....AS REQUIRED  
Mixture.....LEAN AS REQUIRED

## DESCENT

Fuel Selector ..... BOTH  
Carb heat ..... AS REQUIRED  
Power ..... REDUCE SLOWLY  
Mixture .....AS REQUIRED/RICH  
Seats & seat belts .....UPRIGHT & SECURE

## APPROACH & LANDING

Downwind ..... 83 KTS / 95 MPH  
Fuel selector ..... BOTH  
Mixture (below 3000') ..... RICH  
Carb heat ..... FULL HEAT  
Flaps  
(N733LF - 85 KTS / 98 MPH)..... AS REQUIRED  
(N488BA - 110 KTS / 126 MPH) ..AS REQUIRED  
Landing (0°) ..... 64 KTS / 74 MPH  
Landing (40°) ..... 60 KTS / 69 MPH

## AFTER LANDING

RPM ..... 1000  
Radio ..... GROUND/CTAF  
Carb heat ..... COLD  
Flaps ..... RETRACT  
Mixture ..... LEAN  
Lights ..... AS REQUIRED  
Pitot Heat ..... OFF  
Transponder ..... 1200

## SHUTDOWN

Call for fuel ..... AS REQUIRED  
Avionics/Radio master ..... OFF  
Throttle ..... IDLE  
Mixture ..... CUTOFF

## WHEN PROP STOPS

Magnetos..... OFF  
KEY OUT / ON CONSOLE  
Electrical switches .....OFF  
Beacon / Strobes ..... LEAVE ON  
Master switches ..... OFF  
Hobbs & tach ..... RECORD  
Flight control lock ..... INSTALL  
Fuel selector ..... LEFT or RIGHT  
Tie downs ..... SECURE

## SPEEDS

Vg (0°) ..... 65 KTS / 75 MPH  
*glide distance approx 1 NM per 700'*  
Va (2000 lbs) ..... 80 KTS / 92 MPH  
Va (2300 lbs) ..... 97 KTS / 112 MPH  
**Vfe (N733LF).....85 KTS / 98 MPH**  
**Vfe (N488BA) ..... 110 KTS / 126 MPH**  
Vy (0°, 0' MSL) .....73 KTS / 84 MPH  
Vy (0°, 10,000' MSL) ..... 68 KTS / 78 MPH  
Vx (0°) ..... 59 KTS / 68 MPH  
Vs0 ..... 43 KTS / 49 MPH  
Vs1 ..... 50 KTS / 57 MPH

## AIRPLANE SPECS

Usable fuel ..... 40g  
Taxi fuel ..... 1.0g  
Climb fuel ..... 11.5 GPH  
Crosswind ..... 15 KTS / 17 MPH  
Maneuvers ..... 2200 RPM/87 KTS/100 MPH  
Cruise 3000'@71% 2500 RPM/123 MPH/107 KTS  
Cruise GPH @ 71% (leaned) ..... 7.7

## EMERGENCY PROCEDURES

**NOTE: NOT ALL EMERGENCY PROCEDURES  
ARE HERE**  
**Check POH for additional procedures**

## ENGINE FIRE DURING START

Starter ..... CONTINUE CRANKING  
Mixture ..... CUTOFF  
Throttle ..... OPEN

Fuel shutoff ..... OFF  
Magnetos ..... OFF  
Master switches ..... OFF  
Fire Extinguisher..... ACTIVATE

## ENGINE POWER LOSS IN FLIGHT

Airspeed .....70 KTS / 80 MPH  
Carb heat ..... FULL HEAT  
Mixture..... RICH  
Fuel selector ..... BOTH  
Magnetos ..... BOTH  
Primer..... IN and LOCKED  
Engine gauges ..... CHECK

## POWER OFF LANDING

Trim for best glide ..... 65 KTS / 75 MPH  
Landing area ..... IDENTIFY  
Radio ..... MAYDAY  
Transponder ..... 7700  
Final approach (40°) ..... 60 KTS / 69 MPH  
Mixture ..... CUTOFF  
Fuel shutoff ..... OFF  
Magnetos ..... OFF  
Master switches ..... OFF  
Seat belts .....SECURE  
Doors ..... UNLATCH

## ENGINE FIRE IN FLIGHT

Mixture ..... CUTOFF  
Fuel shutoff ..... OFF  
Throttle ..... CLOSED  
Master switches ..... OFF  
Airspeed to extinguish .....104 KTS / 120 MPH  
Cabin heat & air ..... OFF  
Airspeed ..... INCREASE TO EXTINGUISH  
Land ..... IMMEDIATELY

## ELECTRICAL FIRE

Master switches ..... OFF  
Avionics/Radio master ..... OFF  
Vents, cabin heat & air ..... CLOSED  
Fire extinguisher ..... AS NECESSARY  
Electrical switches .....OFF  
Vents (when fire extinguished) ..... OPEN  
Land .....AS SOON AS PRACTICAL

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