





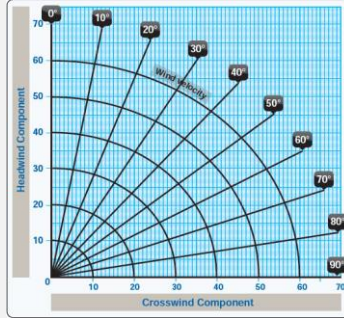




















Chief Joseph Flyers, Inc

N3730R - 1967 Cessna 172H

Preflight Inspection	Passenger Briefing	Before Takeoff
CABIN Airworthiness Cert.....CHECK Registration.....CHECK Operating Limits.....LEGIBLE Flight Manual.....CHECK Weight / Balance.....CHECK TACH/HOBBS.....RECORDED Control Lock.....REMOVE Ignition Switch.....OFF Avionics Master.....OFF Master Switch.....ON Fuel Quantity.....CHECK Wing Flaps.....DOWN Lights.....CHECK Pitot Heat.....CHECK Master Switch.....OFF Alternate Static Source.....NORMAL (IN) Fuel Selector Valve.....BOTH Fuel Strainer.....2 SEC Trim.....TAKEOFF	Seatbelts fastened for taxi, takeoff & landing Shoulder harness fastened for takeoff & landing Seat position adjusted and locked in place Air vents (location and operation) All environmental controls (discussed) Action in case of any passenger discomfort Fire extinguisher (location and operation) Exit doors (how to secure; how to open) Emergency evacuation plan Emergency/survival kit (location / contents) Traffic (scanning, spotting, notifying pilot) Talking (sterile cockpit expectations) Your questions (speak up!)	Departure Brief // CLEAR for Traffic Mixture.....RICH / SET FOR DENSITY ALT Trim.....TAKEOFF Wing Flaps.....UP (or as required) Prop.....FULL FORWARD Carb Heat.....COLD Boost Pump.....ON Lights.....AS REQUIRED Transponder.....ALT / AS REQUIRED Time.....SET AND RECORD
EMPENNAGE Baggage Door.....LOCKED Horizontal Stabilizer.....CHECK Elevator.....FREE / SECURE Vertical Stabilizer.....CHECK Rudder.....FREE / SECURE Tail Tie-Down.....REMOVE ELT.VOR Antenna / Beacon.....CHECK	Before Engine Start Passenger Briefing.....COMPLETE Seats & Belts.....ADJUST / LOCK Doors.....CLOSED / LATCHED Circuit Breakers.....IN Avionics / Lights.....OFF Fuel Selector Valve.....BOTH Brakes.....SET / HOLD	Normal Takeoff Wing Flaps.....UP Throttle.....FULL POWER Rotate.....60 MPH Climb.....V _Y (~80 MPH) Prop @ 500FT.....2400 RPM Boost Pump @ 1000FT.....OFF
RIGHT WING Wing Flap.....SECURE Aileron.....FREE / SECURE Wing Tip / Light.....CHECK Wing Tie-down.....REMOVE Leading Edge.....INSPECT Main Tire (24 PSI) / Brake.....CHECK Fuel Sump.....DRAIN / CHECK Fuel Quantity / CAP.....CHECK / SECURE	Engine Start Mixture.....RICH Carburetor Heat.....OFF Propeller.....FULL FORWARD Master Switch.....ON Beacon.....ON <i>If engine is warm, do not prime</i> Prime.....2-6 PUMPS AS NEEDED Primer.....LOCKED Throttle.....1/8 INCH Propeller Area.....CLEAR Ignition Switch.....START Throttle.....1000-1200 RPM Oil Pressure.....GREEN Ammeter.....CHARGING Wing Flaps.....UP Exterior Lights.....AS REQUIRED Avionics Master.....ON	Short Field Takeoff Wing Flaps.....UP Brakes.....HOLD Throttle.....FULL POWER Brakes.....RELEASE Rotate.....60 MPH Climb.....V _X (~68 MPH) <i>Clear of obstacles climb at V_Y (~80 MPH)</i>
NOSE Windshield.....INSPECT / CLEAN Engine Oil.....6-8 qts (6 min) Dipstick.....SECURE Exhaust.....INSPECT / SECURE Engine Cool Inlets.....FREE & CLEAR Engine Door.....SECURE Nose Wheel (26 PSI) / Strut.....CHECK Propeller / Spinner.....CHECK Alternator Belt.....CHECK Air Filter.....CHECK Static Port.....CLEAR	Before Taxi Avionics / Radios.....SET ATIS and Clearance.....OBTAIN Lights.....AS REQUIRED Brakes.....RELEASE / CHECK	Soft Field Takeoff Wing Flaps.....10° Elevator.....BACK PRESSURE <i>Avoid stopping when taxiing onto runway</i> Throttle.....FULL POWER Lift-off.....AT SLOWEST POSSIBLE SPEED Elevator.....EASE BACK PRESSURE and remain in ground effect Accelerate & Climb.....V _X or V _Y (68 / 80 MPH) Wing Flaps.....RETRACT clear of obstacles
LEFT WING Main Tire (24 PSI) / Brake.....CHECK Fuel Sump.....DRAIN / CHECK Fuel Quantity / CAP.....CHECK / SECURE Pitot Tube / Cover.....CHECK Fuel Vent.....CLEAR Wing Tie-down.....REMOVE Stall Warning Opening.....CHECK Leading Edge.....CHECK Wing Tip / Light.....CHECK Aileron.....FREE / SECURE Wing Flap.....SECURE	Run-Up Brakes.....SET / HOLD Seats & Belts.....SECURE Doors / Windows.....CLOSED / LATCHED Flight Controls.....FREE / CORRECT Flight Instruments.....SET / CHECK Fuel Selector Valve.....BOTH Fuel Quantity.....CHECK Mixture.....RICH Throttle.....1700 RPM Magnetos.....CHECK RPM DROP Max drop 125 / Difference 50) Carb Heat.....ON / RPM DROP / OFF Suction Gauge.....4.5 - 5.4 Propeller.....CYCLE 3 TIMES Engine Instruments.....CHECK Ammeter.....CHARGING Throttle.....IDLE / Check Smooth Throttle Friction Lock.....ADJUST	Normal Climb Wing Flaps.....UP / VERIFIED Airspeed.....80-90 MPH Power.....FULL THROTTLE Prop.....2400 RPM (> 500 FT) Boost Pump.....OFF @ 1000 FT Mixture.....RICH (unless engine is rough) Engine Gauges.....CHECK / MONITOR
Version 4/24/2021		Cruise Throttle.....20-24IN MP Propeller.....2300-2400 RPM Mixture.....LEAN rich of peak RPM Fuel Selector.....LEFT or RIGHT >5K' MSL Heading Indicator.....ADJUST Landing Light.....OFF Joseph State AWOS-3.....123.775 Joseph / Enterprise CTAF.....122.80 McMinnville Radio (FSS).....122.50 Salt Lake Center (E/S/SW).....128.05 Seattle Center (N/NE).....123.95 Seattle Center (W of KLGD).....132.60 Peavine / Reds / Dug Bar CTAF.....122.90 <i>This checklist is not a substitute for the 1967 Cessna 172H Owner's Handbook and Supplements. All Information is deemed accurate but not guaranteed.</i>

Descent	Fires	Engine Failures
Engine Instruments.....CHECK Throttle.....REDUCE as required Mixture.....ENRICH Carb Heat.....AS REQUIRED Radios / ATIS.....SET / OBTAIN Arrival / Approach Brief.....COMPLETE	Fire During Start on the GROUND  Cranking.....CONTINUE (to suck fuel & flames into the engine) <u>If Engine Starts:</u> Throttle.....1700 RPM for few minutes Engine.....SHUTDOWN <u>If Engine Fails to start:</u> Throttle.....FULL Mixture.....IDLE CUTOFF Boost Pump.....OFF Continue Cranking.....30-60 Seconds Master Switch.....OFF Ignition Switch.....OFF Fuel Selector Valve.....OFF Fire Extinguisher.....OBTAIN EXIT AIRCRAFT & EXTINGUISH FIRE	During Take-Off Roll Throttle.....IDLE Brakes.....APPLY Wing Flaps.....RETRACT Mixture.....IDLE CUT-OFF Ignition Switch.....OFF Master Switch.....OFF Immediately After Take-Off (Low Altitude) Airspeed.....70 MPH (Flaps UP) 65 MPH (Flaps DOWN) Wing Flaps.....AS REQUIRED LAND STRAIGHT AHEAD Mixture.....IDLE CUT-OFF Fuel Selector Valve.....OFF Ignition Switch.....OFF Master Switch.....OFF
Before Landing (BCGUMPS) Boost Pump.....ON Carburetor Heat.....ON Gas.....FUEL SELECTOR - BOTH Undercarriage.....CHECK GEAR Mixture.....RICH Propeller.....AS REQUIRED Switches.....SET (Landing Light, etc.)	Engine Fire in Flight  Mixture.....IDLE CUTOFF Fuel Selector Valve.....OFF Boost Pump.....OFF Master Switch.....OFF Cabin Heat and Air.....OFF Airspeed.....110 MPH IF FIRE IS NOT EXTINGUISHED, INCREASE SPEED EXECUTE FORCED LANDING	During Flight (Re-Start) Airspeed.....80 MPH Mixture.....RICH Fuel Selector Valve.....BOTH Carburetor Heat.....ON Boost Pump.....ON Ignition Switch.....BOTH (START if Prop has Stopped) Primer.....IN AND LOCKED IF NO START, PROCEED W/ FORCED LANDING
Normal Pattern / Landing Abeam Numbers.....1500-1700 RPM Downwind.....80 MPH / 10° FLAPS Base.....70 MPH / 20° FLAPS Final.....65 MPH / 20° - 40° FLAPS <i>When Landing Assured on Final</i> Carb Heat.....OFF Propeller.....FULL FORWARD No Flap Pattern Final Approach.....70 MPH	Electrical Fire in Flight  Master Switch.....OFF All Switches except Ignition.....OFF Cabin Heat / Air / Vents.....OFF Fire Extinguisher.....ACTIVATE <u>If Fire is out:</u> Cabin Heat / Air / Vents.....OPEN IF ELECTRICAL EQUIP REQ'D FOR FLIGHT Master Switch.....ON Circuit Breakers.....CHECK Essential Switches.....ON (one at a time) LAND AS SOON AS POSSIBLE	Forced / Emergency Landing Without Power Airspeed.....80 MPH Landing Location.....SELECT Mixture.....IDLE CUT-OFF Fuel Selector Valve.....OFF Boost Pump.....OFF Ignition Switch.....OFF Wing Flaps.....AS REQUIRED Master Switch.....OFF Doors.....UNLATCHED Touchdown.....SLIGHTLY NOSE HIGH
Short Field Landing Wing Flaps.....40° Final Approach Speed.....69 MPH Touchdown.....W/IN 200' OF DESIRED PT Brakes.....SMOOTHLY APPLY IMMEDIATELY Elevator.....FULL BACK PRESSURE Wing Flaps.....RETRACT for max braking	Cabin Fire  Master Switch.....OFF Cabin Heat / Air / Vents.....OFF Fire Extinguisher.....ACTIVATE Cabin Air / Vents.....OPEN when fire is out LAND AS SOON AS POSSIBLE	Landing With a Flat Tire Approach.....NORMAL Touchdown.....GOOD TIRE FIRST HOLD AIRPLANE OFF OF FLAT TIRE AS LONG AS POSSIBLE
Soft Field Landing Wing Flaps.....40° Final Approach Speed.....65 MPH In Flare.....ADD POWER to break descent Touchdown.....GENTLY MAINS FIRST Throttle.....SMOOTHLY REDUCE TO IDLE Nosewheel.....HOLD OFF as long as poss Elevator.....BACK PRESSURE dur rollout		
Go-Around Power.....FULL THROTTLE Propeller.....FULL FORWARD Carburetor Heat.....OFF Wing Flaps.....20° IMMEDIATELY Pitch.....TO GAIN AIRSPEED THEN V _y Wing Flaps.....RETRACT (>V _x & pos. climb) Climb.....80 – 90 MPH		
After Landing Carburetor Heat.....CHECK OFF Propeller.....CHECK FULL FORWARD Wing Flaps.....RETRACT Boost Pump.....OFF Taxi Clearance.....OBTAIN / ANNOUNCE Transponder.....As Required Landing Time.....NOTE / RECORD		
Shutdown / Secure Lights.....OFF Avionics Master Switch.....OFF Mixture.....IDLE CUT-OFF Ignition Switch.....OFF Master Switch.....OFF Control Lock (if available).....INSTALL SPOT Unit (if applicable).....OFF Pitot Cover (if available).....INSTALL Aircraft Hobbs / Tach / Chocks / Tie-down Flight Plan CLOSED Post-Flight Walk-Around		
	Local Area Airfields	
	Joseph State (KJSY) 0 nm	Enterprise (8S4) 328° / 4nm
	CTAF 122.8 / AWOS 123.775 Elev 4121 / Pattern 5100 Rwy 15/33 - 5200 ft	CTAF 122.8 Elev 3957 / Pattern 4900 Rwy 12/30 - 2850 ft
	Baker City (KBKE) 206° / 39nm	LaGrande (KLGD) 251° / 32nm
	CTAF 123.0 / ASOS 134.275 Elev 3373 / Pattern 4400 Rwy 08/26 - 3670 ft // Rwy 17/35 - 4395 ft Rwy 13/31 - 5085 ft	CTAF 122.8 / AWOS 135.075 Elev 2718 / Pattern 3700 Rwy 12/30 - 6261 ft / Rwy 16/34 - 3399 ft
	McCall (KMYL) 106° / 56nm	Lewiston (KLWS) 355° / 62nm
	CTAF 122.8 / ASOS 119.225 Elev 5024 / Pattern 6000 Rwy 16/34 - 6108 ft	Twr 119.4 / ASOS 135.575 / Gnd 121.9 Elev 1441 / Pattern 2500 Rwy 08/26 - 6511 ft / Rwy 12/30 - 5002 ft
	Idaho County (KGIC) 038° / 59nm	Walla Walla (KALW) 302° / 62nm
	CTAF 122.8 / AWOS 118.175 Elev 3313 / Pattern 4300 Rwy 08/26 - 5101 ft	Twr 118.5 / ASOS 135.875 / Gnd 121.6 Apch: "Chinook" 133.15 Elev 1194 / Pattern 2200 Rwy 02/20 - 6572 ft
	Pendleton (KPDPT) 274° / 70nm	Boise (KBOI) 144° / 116nm
	Twr 119.7 / ASOS 118.325 / Gnd 121.9 Apch: "Chinook" 133.15 Elev 1497 / Pattern 2300 Rwy 08/26 - 6301 ft // Rwy 11/29 - 5582 ft	Twr 118.1 / ATIS 123.9 / Gnd 121.7 / CD 125.9 Apch: "Big Sky" (N)126.9 / (S)119.6 Elev 2872 / Pattern 3800 Rwy 10L/28R - 10,000 ft // 10R/28L - 9763 ft

Private Pilot Syllabus Maneuvers		Useful Numbers																					
Pre-Maneuver Checklist:		Flight Planning Info																					
Clearing Turns.....Two 90° turns		Fuel: 36 gal 2 wg tanks + 18 gal aux (54 gal)																					
Fuel Selector.....Both		Empty Weight: 1479 lbs Max GW: 2300 lbs																					
Mixture.....Rich		Cruise Power Settings (Std Day, 7000' MSL)																					
Engine Instruments.....Check		(60%) 2400 RPM / 20IN MP / 8.5 gph / 110 KTAS																					
Winds / Altitude.....Check		(65%) 2350 RPM / 21IN MP / 9.5 gph / 115 KTAS																					
		(75%) 2450 RPM / 23IN MP / 10.5 gph / 125 KTAS																					
Steep Turns:		T/O & Land (Std Day, 0 Wind, 5000' MSL, 2300 lbs)																					
Altitude.....Min. 1500ft. AGL		T/O Dist (ground run / over 50' obst) ≈ 1115 / 1995 ft																					
Power.....16-20 in. MP		Rate of Climb (80 mph) ≈ 525 ft/min																					
Airspeed.....≤ V _A (100-120mph)		Landing Distance (over 50' obstacle) = 1385 ft																					
Bank.....45°																							
Power.....Add to maintain speed (1-2 in. MP)																							
Pitch.....Slight back-pressure																							
Trim.....As required																							
Roll-out.....Lead heading by 1/2 bank angle																							
2nd Turn.....Opposite direction																							
Slow Flight:		Cessna 172H Airspeeds (MPH)																					
Altitude.....Recover ≥ 1500 ft. AGL		V _{GLIDE} - Best Glide Speed 80																					
Throttle.....1500-1700 RPM (maintain alt)		V _{SO} - Stall Speed Flaps Down 49																					
Carb. Heat.....As Required		V _{S1} - Stall Speed Flaps Up 57																					
Flaps.....Down 1 notch at a time to 30°		V _R - Rotate Speed 60																					
Airspeed.....~60-65 mph (Flaps down)		V _{FE} - Max Speed with Flaps Down 100																					
~65-70mph (Flaps up)		V _{NO} - Max Structural Cruising Speed 140																					
Throttle.....As req to maintain alt/airspeed		V _{NE} - Never Exceed Speed 174																					
—Recovery—		V _A - Maneuvering Speed (2300 lbs) 122																					
Throttle.....Full Open		V _X - Best Angle of Climb (5000' MSL) 68																					
Carb. Heat.....Off		V _Y - Best Rate of Climb (5000' MSL) 80																					
Flaps.....Up one notch to 20° immediately		Max Crosswind Limit (knots) 15																					
Pitch.....Maintain altitude																							
Flaps.....Retract when airspeed >V _X																							
Airspeed.....Resume Normal Cruise																							
Power-Off (Approach) Stall:		Crosswind Component Chart																					
Altitude.....Recover ≥ 1500 ft. AGL																							
Throttle.....1500-1700 RPM (maintain alt)																							
Carb. Heat.....As Required																							
Flaps.....Down 1 notch at a time to 30°																							
Speed.....Slow to 65mph																							
Stabilized Approach.....Begin descent																							
Throttle.....Reduce to Idle																							
Pitch.....Up to landing attitude, maintain alt																							
—Recovery—																							
Elevator.....Reduce Back Pressure																							
Throttle.....Full Open																							
Carb. Heat.....Off																							
Wings.....Level																							
Flaps.....Up one notch to 20° immediately																							
Pitch.....for V _Y climb as airspeed increases																							
Flaps.....Retract w/ airspeed >V _X & pos. climb																							
Airspeed.....Resume Normal Cruise																							
Power-On (Departure) Stall:		ATC Light Gun Signals																					
Altitude.....Recover ≥ 1500 ft. AGL		<table><tr><th>GROUND</th><th>SIGNAL</th><th>AIR</th></tr><tr><td>Cleared for Takeoff</td><td></td><td>Cleared to Land</td></tr><tr><td>Cleared to Taxi</td><td></td><td>Return for Landing</td></tr><tr><td>STOP</td><td></td><td>Give Way Continue Circling</td></tr><tr><td>Taxi Clear of Runway</td><td></td><td>Airport Unsafe DO NOT LAND</td></tr><tr><td>Return to Starting Point on Airport</td><td></td><td>Not Applicable</td></tr><tr><td>Exercise EXTREME CAUTION</td><td></td><td>Exercise EXTREME CAUTION</td></tr></table>	GROUND	SIGNAL	AIR	Cleared for Takeoff		Cleared to Land	Cleared to Taxi		Return for Landing	STOP		Give Way Continue Circling	Taxi Clear of Runway		Airport Unsafe DO NOT LAND	Return to Starting Point on Airport		Not Applicable	Exercise EXTREME CAUTION		Exercise EXTREME CAUTION
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Exercise EXTREME CAUTION		Exercise EXTREME CAUTION																					
Throttle.....1500-1700 RPM (maintain alt)																							
Airspeed.....Slow to 70mph																							
Pitch.....20° nose high (~feet on horizon)																							
(30° nose high max)																							
Throttle.....Increase (~18-19" MP)																							
—Recovery—																							
Elevator.....Reduce Back Pressure																							
Throttle.....Full Open																							
Pitch.....for V _Y climb as airspeed increases																							
Pitch / Bank.....Return to normal flight attitude																							
Rectangular Course:																							
Reference.....Rectangular field or set of roads																							
Entry.....45° to simulated downwind leg																							
Altitude.....600-1000 ft. AGL																							
Power.....≈16-17 inches MP																							
Airspeed.....90-100mph																							
Turns.....Start abeam corners																							
Bank.....As required (45° max)																							
Heading.....Apply drift correction to maintain constant distance from field edges																							
Throttle.....As req to maintain speed +/- 10mph																							
Pitch.....As req to maintain alt +/- 100 ft																							
Exit.....End of downwind leg 45° away from field																							
S-Turns:																							
Reference.....Line on gnd perpendicular to wind																							
Entry.....Perpendicular to line flying downwind																							
Altitude.....600-1000 ft. AGL																							
Power.....≈16-17 inches MP																							
Airspeed.....90-100mph																							
Bank.....As req to track constant radius 180°																							
turn back to reference line, 45° max (adjust to correct for wind drift)																							
2nd Turn.....Cross line, turn opposite direction																							
Throttle.....As req to maintain speed +/- 10mph																							
Pitch.....As req to maintain alt +/- 100 ft																							
Exit.....Depart maneuver on entry heading																							
Turns Around a Point:																							
Reference.....Select prominent point																							
Entry.....Downwind abeam (≈ 1/2nm radius)																							
Altitude.....600-1000 ft. AGL																							
Power.....≈16-17 inches MP																							
Airspeed.....90-100mph																							
Bank.....As req'd to track constant radius turn around point (45° max); correct for drift																							
Throttle.....As req to maintain speed +/- 10mph																							
Pitch.....As reqd to maintain alt +/- 100 ft																							
Exit.....On entry heading																							

Briefing Guides	
Passenger Briefing	
	S eatbelts fastened for taxi, takeoff and landing S houlder harness fastened for takeoff and landing S eat position adjusted and locked in place A ir vents (location and operation) A ll environmental controls (discussed) A ction in case of any passenger discomfort F ire extinguisher (location and operation) E xit doors (how to secure; how to open) E mergency evacuation plan E mergency/survival kit (location and contents) T raffic (scanning, spotting, notifying pilot) T alking (sterile cockpit expectations) Y our questions (speak up!)
Departure Briefing	
	Who is PIC? Who is pilot flying? Type of takeoff _____ Runway _____ Distance _____ Surface Condition - Dry / Wet / Ice / Grass / Paved Rotate speed _____ / Climbout speed _____ Departure direction _____ Initial Climb Altitude _____ Departure Procedures (ODPs/SIDs/noise abatement) Sterile cockpit (< 1000 feet AGL / During all critical phases of flight) Exchange of flight controls (3-way verbal / visual check) EMERGENCY PROCEDURES o On runway: throttle to idle, maintain directional control, brake, taxi off runway, call o Airborne (runway remaining): land, throttle idle, directional control, brake, taxi off, call o Airborne (no runway): Under _____ ft. MSL make shallow turns to land at suitable area. o Above _____ ft. MSL make shallow turns to (l/r) back to the airport, checklist. “If you see anything unsafe let me know and I’ll do the same” “Did I miss anything? Do you have any questions?”
Arrival Briefing	
	Arrival airport ATIS or Weather (if no ATIS) Set Altimeter Relevant NOTAMS Determine pattern altitude / direction / type of approach Avionics – Set for arrival Planned arrival runway – Usable length and condition Planned runway exit point and taxi route Instrument Approach Briefing (If appropriate)
Approach Briefing	
	APPROACH PROCEDURE..... CONFIRM CORRECT COMM / NAV / PCL FrequenciesSET and IDENT GPS status, RAIM and OBS CouplingREVIEW and SET Final approach courseREVIEW AND SET MSA and TDZ elevation REVIEW FAF Altitude and MDA / DA REVIEW Time from FAF to MAP (if applicable)..... REVIEW Missed Approach Point / ProcedureREVIEW