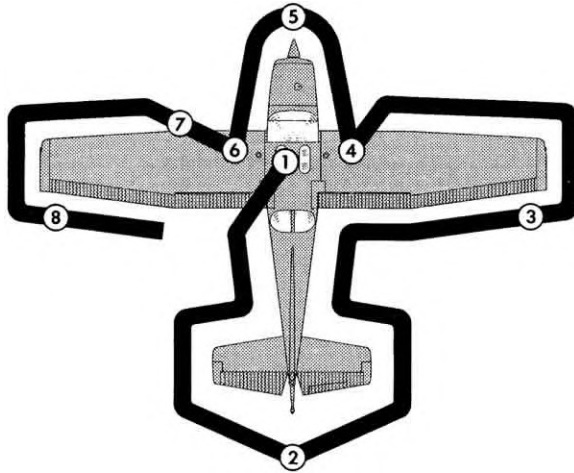


NORTHWEST FLIGHT SERVICE  
**SKYHAWK N3021E**

**PREFLIGHT CHECKLIST**

*For Use Only With an Approved C-172N POH/AFM  
 (Revised 4/19)*



**PREFLIGHT INSPECTION**

- Hobbs/Tach ..... CHECK/RECORD
- Weather..... CHECK
- Weight and Balance.....COMPUTED
- Fuel.....AS REQUIRED
- Pitot Tube Cover..... REMOVE

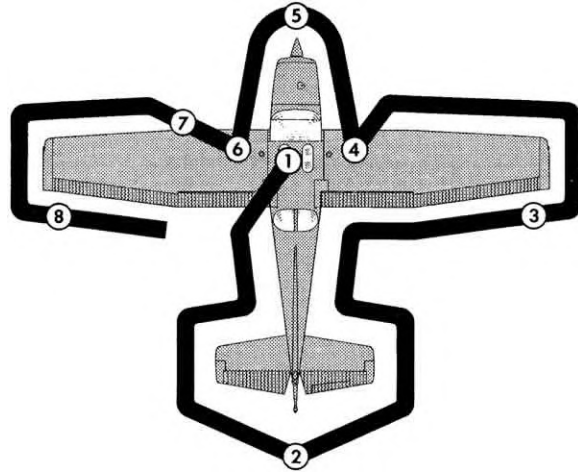
**INTERIOR ①**

- Fire Extinguisher ..... CHECK
- Aircraft Documents (AROW)..... CHECK
- Control Wheel Lock .....REMOVE
- Ignition Switch.....OFF
- Avionics Power Switch.....OFF
- Master Switch.....ON
- Fuel Quantity Indicators .....CHECK QUANTITY
- Alternate Static Source.....OFF
- Lights/Pitot Heat..... CHECK
- Flaps .....FULLY EXTEND
- Master Switch.....OFF
- Airsickness Bags..... CHECK
- Baggage and Loose Items .....STOWED

**EMPENAGE ②**

- Tail Tiedown ..... DISCONNECT
- Control Surfaces .....(Freedom & Security) CHECK
- Trim Tab .....CHECK
- Antennas .....CHECK

NORTHWEST FLIGHT SCHOOL



**RIGHT WING ③ ④**

- Flap..... (Security) CHECK
- Aileron..... (Freedom & Security) CHECK
- Wing Tie-Down.....DISCONNECT
- Fuel Tank Sumps (1 Each Wing) .....CHECK BOTH WINGS  
*Check for Water and Sediment*

- Fuel Quantity..... CHECK VISUALLY
- Fuel Filler Cap.....CHECK VENT/SECURE
- Main Wheel Tire, Brake disc, Pads and Lines ..... CHECK

**NOSE ⑤**

- Windshield ..... CLEAN
- Fuel Sump..... TAKE SAMPLE
- Oil Quantity .....CHECK (5-7 QTS) & SECURE CAP
- Oil Access Door.....SECURE
- Engine Cooling Air Inlets.....CHECK
- Alternator Belt.....CHECK
- Propeller & Spinner .....CHECK
- Engine Air Filter .....CHECK
- Nose Wheel Strut & Tire .....CHECK
- Landing & Taxi Lights..... CHECK CONDITION & CLEANLINESS
- Static Source Opening .....CHECK

**LEFT WING ⑥ ⑦ ⑧**

- Fuel Quantity.....CHECK VISUALLY
- Fuel Filler Cap ..... CHECK VENT/SECURE
- Pitot Tube..... CHECK UNOBSTRUCTED
- Stall Horn Opening ..... CHECK UNOBSTRUCTED
- Fuel Tank Vent.....CHECK
- Aileron..... (Freedom & Security) CHECK
- Flap..... (Security) CHECK
- Main Wheel Tire, Brake Disc & Pads .....CHECK
- Wing Tie-Down..... DISCONNECT
- Baggage Door .....SECURE

# SKYHAWK N3021E

## NORMAL CHECKLIST

For Use Only With an Approved C-172N POH/AFM  
(Revised 4/19)

### BEFORE STARTING ENGINE

Preflight Inspection .....COMPLETE

#### PASSENGER BRIEF

*Doors, Seats & Seatbelts, Fire Extinguisher, No Smoking,  
PIC Authority, Positive Exchange of Flight Controls  
Air Vents, Airsickness Bags*

Passenger Brief .....COMPLETE  
Seat & Seat Belts ..... ADJUST & LOCK  
Circuit Breakers ..... CHECK IN  
Electrical Equipment ..... OFF EXCEPT BEACON (NAV NIGHT)  
Avionics Master Switch ..... OFF  
Fuel Selector Valve ..... CHECK/BOTH  
Flight Controls ..... FREE & CORRECT  
Brakes ..... SET

### ENGINE START (With Battery)

Mixture .....RICH  
Throttle..... 1/8" OPEN  
Carburetor Heat .....COLD  
Prime .....AS REQUIRED  
*2-6 Strokes, None for Warm Engine*

Prop Area ..... CLEAR  
Master Switch..... ON  
Beacon (Nav for Night) ..... ON  
Ignition ..... START  
Throttle..... 1000 RPM  
Oil Pressure ..... (In Less Than 15 Seconds) CHECK GREEN  
Mixture ..... LEAN FOR RPM RISE

**NOTE:**

*If engine floods (over primed), set mixture to idle cutoff,  
open throttle 1/2 to full, and crank engine. When engine  
starts, set mixture to full rich and close throttle promptly.*

### AFTER START

Avionics Master Switch ..... ON  
Comms .....ATIS/AWOS/CLEARANCE IF REQUIRED  
Altimeter .....SET BOTH  
Transponder ..... 1200  
GPS/NAVS..... SET/COURSE  
Attitude/Heading Indicator ..... SET BRIGHTNESS  
Flaps ..... RETRACT  
Strobes ..... ON

### TAXI

Taxi Clearance ..... OBTAIN & BRIEF  
Taxi Area ..... CLEAR  
Taxi Light ..... ON  
Brakes.....CHECK  
Wind Corrections ..... APPLY  
Flight Instruments (AI/TC/HI/VSI) .....CHECK  
Sterile Cockpit ..... NO NON-ESSENTIAL CONVERSATION

### RUN UP

Mixture..... FULL RICH BELOW 3000' DA  
Throttle ..... 1700 RPM  
Magnetos ..... (<125 Drop, <50 Differential) CHECK  
Carburetor Heat ..... ON/CHECK/OFF  
Engine Instruments ..... CHECK GREEN  
Ammeter ..... CHECK CHARGE  
Throttle ..... IDLE/CHECK  
Throttle/Throttle Friction ..... 1000 RPM/SET

### PRE-TAKEOFF BRIEF

**Engine Failure or Abnormality Prior to Rotation**  
CLOSE THROTTLE, STOP STRAIGHT AHEAD & AVOID OBSTACLES  
**Engine Failure After Rotation**  
LAND STRAIGHT AHEAD

### DEPARTURE BRIEF

*Initial Altitude & Heading. Brief Departure Procedure*

### BEFORE TAKEOFF

Pre-takeoff/Departure Brief ..... COMPLETE  
Fuel Selector Valve ..... BOTH  
Trim ..... SET FOR TAKEOFF  
Flaps .....SET  
Mixture ..... VERIFY SET  
Comms ..... SET FOR DEPARTURE  
Transponder .....SET SQUAWK/VERIFY ALT  
GPS/NAV ..... AS REQ FOR DEPARTURE  
Heading Bug .....SET  
Seats, Belts, Harnesses ..... SECURE  
Doors & Windows .....CLOSED & LOCKED

### WHEN CLEARED FOR TAKEOFF

Landing Light ..... ON  
Pitot Heat .....AS REQ  
Takeoff Time ..... RECORD  
Runway Heading ..... VERIFY

### V-SPEEDS

Vr ..... 55 KIAS  
Vx ..... 59 KIAS  
Vy ..... 73 KIAS  
Va 2400 Pounds ..... 97 KIAS  
2100 Pounds ..... 89 KIAS  
1700 Pounds ..... 80 KIAS

## CLIMB (Out of 1000' AGL)

Airspeed ..... Vy +5-10 KIAS  
Flaps ..... UP  
Throttle ..... FULL  
Mixture ..... LEAN FOR MAX RPM

## CRUISE

Power ..... ( $\leq 75\%$  Power per POH) SET  
Engine Instruments ..... CHECK GREEN  
Mixture ..... LEAN FOR MAX RPM  
Landing/Taxi Lights ..... OFF

## DESCENT

ATIS/AWOS ..... CHECK  
Approach Briefing ..... COMPLETE  
Altimeter ..... SET BOTH  
Heading Bug ..... SET  
Fuel Selector ..... BOTH  
Parking Break ..... CHECK RELEASED  
Landing Light ..... ON

### WHEN DIRECT TO IAF OR VECTORED

Flight & NAV Instruments ..... SET/IDENT  
GPS/NAV/COMM ..... SET

## BEFORE LANDING CHECKLIST

Seats, Belts & Harnesses ..... SECURE  
Fuel Selector Valve ..... BOTH  
Mixture ..... RICH/AS REQUIRED  
Carburetor Heat ..... ON  
Lights ..... ON  
Primer ..... IN/LOCKED

## GO AROUND/MISSED APPROACH

Throttle ..... FULL OPEN  
Carburetor Heat ..... OFF  
Wing Flaps ..... (IMMEDIATELY) 20°  
Climb Speed ..... 55 KIAS  
Wing Flaps ..... 10°

*Maintain Safe Airspeed Until Clear of Obstacles*

Wing Flaps ..... (When Clear of Obstacles) RETRACT  
Mixture ..... LEAN FOR MAX RPM (Above 3000 DA)

## AFTER LANDING (Stopped)

Flaps ..... RETRACT  
Mixture ..... LEAN FOR TAXI  
Carburetor Heat ..... OFF  
Lights ..... AS REQUIRED  
Taxi Clearance ..... OBTAIN & BRIEF

### NOTE:

*Turn strobes off when taxiing near other aircraft/personnel.*

## SHUTDOWN

Transponder ..... 1200  
Avionics Master ..... OFF  
Electrical Equipment ..... OFF EXCEPT BEACON (NAV Night)  
Throttle ..... IDLE  
Magnetos ..... CHECK GROUNDED  
Mixture ..... CUTOFF  
Ignition Switch ..... OFF  
Master Switch ..... OFF  
Trim ..... SET FOR TAKEOFF  
Fuel Selector Valve ..... LEFT OR RIGHT

## SECURING AIRCRAFT

Hobbs/Tach ..... CHECK/RECORD  
Flight Control Lock ..... SECURE  
Sunscreens ..... INSTALL  
Tiedown/Chock ..... SECURE  
Pitot Cover ..... INSTALL  
Walkaround ..... COMPLETE

## V-SPEEDS

Vr	55 KIAS
Vx	59 KIAS
Vy	73 KIAS
Va 2400 Pounds	97 KIAS
2000 Pounds	89 KIAS
1700 Pounds	80 KIAS