

N5529V CHECKLIST

PREFLIGHT

Maintenance Records	CHECK
Squawks	CHECK
ARROW Docs	CHECK
Gust Lock	REMOVE
Electrical Switches	OFF
Avionics	OFF
Air Con. / Ventilation	OFF
Volt-Amp Selector	VOLTS
Radar	OFF
Battery Switch	ON
Avionics Cooling Fan	AUDIBLE
Volts	22 MIN.
Annunciator Panel	TEST
Landing Gear Lights	3 GREEN
Fuel Gauges	CHECK QTY.
Flaps	DOWN
Lights / Pitot Heat / Stall	CHECK
Battery Switch	OFF
Alternate Static	OFF
Trims (3)	NEUTRAL
Fuel Selectors	NORMAL
Emergency X-Feed	IN/OFF
Yaw Damper	OFF
Propeller Sync	OFF/CTR. KNOB

EXTERIOR

In addition to flow check	
Engine Oil	4 QT. MIN.
Air Con./Heater Intake	CHECK
Rudder Gust Lock	REMOVE



BEFORE STARTING ENGINES

Cabin Door	CLOSED/LOCKED
Passenger Brief	COMPLETE
Cell Phones	AIRPLANE MODE
Brakes	TEST / HOLD
Seats/Belts	ON
Circuit Breakers	CHECK
Beacon	ON
Radar	OFF / 0 DEG.
Air Con. / Vent. Fan	OFF
Heater	OFF
Cowl Flaps	OPEN

STARTING ENGINES

NORMAL

Throttles	CLOSED
Propellers	HIGH
Mixtures	RICH
Propeller Areas	CLEAR
Battery & Alternators	ON
Gear Down Lights	3 GREEN
Magneto Switches	ON

LEFT ENGINE

Primer	ON
Throttle	ADVANCE TO 60 PPH
Throttle	IDLE
Primer	OFF
Starter	ENGAGE
Throttle	ADVANCE SLIGHTLY
Throttle	800 – 1,000 RPM
Oil Pressure	CHECK
Mixture	LEAN

RIGHT ENGINE

Repeat Above Steps

TAXI CHECK

Avionics	ON
Air. Con.	AS DESIRED
Flaps	UP
Left Engine	X-FEED
Transponder	STANDBY
Weather	CHECK
Left Engine	NORMAL
Right Engine	X-FEED
Flight Controls	CHECK
Lights	AS DESIRED
HSI	SET
Radio	CHECK
Brakes	CHECK
Radar	STANDBY
Fuel	NORMAL

BEFORE TAKEOFF

Flight Instruments	CHECK SET
Cross feed	TEST
Mixtures	RICH
Throttles	1700 RPM
Magnetos (150 max/50 dif.)	CHECK
Propellers	
Feather	CHECK
Oil Pressure	DROP
Manifold Pressure	RISE
Suction Gauge	CHECK
Alternators	CHECK
Engine Instruments	CHECK
Throttles	1000 RPM
Auto Pilot	TEST THEN OFF
Fuel	NORMAL

NORMAL TAKEOFF

Before Takeoff Brief	COMPLETE
Flaps	10 DEGREES
Time Off	NOTE
Lights	AS REQUIRED
Transponder	ALT
Mixture	RICH
Aux. Fuel Pumps	ON LOW
Power	32.5" & 2400 RPM
Mixtures	160-165 PPH
Rotate	80 KNOTS
Gear	UP
Airspeed	BLUELINE
Flaps	UP

SHORT FIELD TAKEOFF

Flaps	10 DEGREES
Time Off	LOG
Lights	AS REQUIRED
Transponder	ALT
Mixtures	RICH
Aux. Fuel Pumps	ON
Power	32.5" & 2400 RPM
Mixtures	160-165 PPH
Rotate/Lift Off	80 KIAS
Gear	UP
Airspeed	80 KIAS
Flaps	UP

CLIMB

Airspeed	115-125 KNOTS
Power	24" & 2400 RPM
Fuel Pumps	OFF
Mixtures	ADJUST 95 PPH
Auto Pilot	AS DESIRED
Radar	ON
Air Conditioner	OFF
Vent Fan	AS DESIRED

N5529V CHECKLIST

CRUISE

Power	SET
Trims	SET
Mixtures	LEAN
Cowl Flaps	CLOSED
Yaw Damper	ON
Propeller Sync	ON

DESCENT

Power	AS DESIRED
Mixtures	ADJUST FOR SMOOTHNESS
Fuel Selectors	NORMAL
Cowl Flaps	CLOSED
Weather	OBTAIN

NORMAL LANDING

Auto Pilot	OFF
Radar	STAND BY
Yaw Damper	OFF
Propeller Sync	OFF
Aux. Fuel Pumps	ON
Mixtures	RICH
Lights	AS DESIRED
Landing Gear	DOWN
Propellers	2400 RPM
Airspeed	BLUELINE
Vent. Fan	AS DESIRED

SHORT FIELD LANDING

Auto Pilot	OFF
Radar	STAND BY
Yaw Damper	OFF
Propeller Sync	OFF
Aux. Fuel Pumps	ON
Mixtures	RICH
Lights	AS DESIRED
Landing Gear	DOWN
Propellers	2400 RPM
Airspeed	81 KNOTS
Vent. Fan	AS DESIRED
Touchdown	MAIN GEAR FIRST
Brakes	APPLY HEAVILY
Flaps	UP

AFTER LANDING

Aux. Fuel Pumps	OFF
Mixtures	LEAN
Lights	AS REQ.
Flaps	UP
Cowl Flaps	OPEN
Transponder	STAND BY
Propeller Sync	KNOB CENTERED

SHUT DOWN & SECURING

Electrical Equipment/Lights	OFF
Vent Fan/Air Con.	OFF
Avionics	OFF
Throttles	IDLE
Mixtures	IDLE CUT OFF
Magnetos	OFF
Battery & Alternator Switches	OFF
Control Lock	INSTALL
Rudder Gust Lock	INSTALL

ENGINE FAILURE IN FLIGHT

Mixtures	FORWARD
Props	FORWARD
Throttles	FORWARD
Flaps	UP
Gear	UP

BELOW 3,000

Airspeed	BLUELINE
Identify	DEAD FOOT
Verify	CLOSE THROTTLE
Propeller	VERIFY/FEATHER

ABOVE 3,000 ATTEMPT RESTART

Mixture	FULL RICH
Aux Fuel Pump (If FF deficient)	ON
Starter	ENGAGE

SECURE INOP ENGINE

Throttle	IDLE
Propeller	FEATHER
Mixture	IDLE CUT OFF
Alternator	OFF
Magnetos	OFF

ENGINE RESTART IN AFTER FEATHER

Auxiliary Fuel Pump OFF
If ON, purge engine by turning pump off & move mixture to idle cut off, throttle full, mag switches off & rotate engine 10-15 times w/starter.

Magnetos	ON
Throttle (silence horn)	¼" OPEN
Propeller	CRUISE
Starter	ENGAGE UNTIL PROP WINDMILLS
Aux Fuel Pump	ON
Mixture	ENRICHEN UNTIL ENG. START
Aux Fuel Pump	OFF
Oil Pressure	CHECK
Throttle	BOTTOM of GREEN UNTIL CHT is 200 DEGREES
Alternator	ON

LANDING GEAR FAILS TO RETRACT

Battery & Alternator	ON
Landing Gear Lever	UP
Ldg. Circuit Breakers	CHECK IN GEAR IND., LDG Gear, CONT, PUMP & GR/STL WARN breakers in
Landing Gear Lever	DOWN
Ldg. Gear Lights	3 GREEN, RED OFF
Landing Gear Lever	UP
If gear still fails to retract, reposition the landing gear lever to the down position and fly to a repair station.	

LANDING GEAR FAILS TO EXTEND

Battery & Alternator Switches	ON
Landing Gear Lever	DOWN
Ldg. Circuit Breakers	CHECK IN GEAR IND., LDG Gear, CONT, PUMP & GR/STL WARN breakers in
Airspeed	LESS THAN 140 KIAS
Emergency Hand Pump Handle	EXTEND & PUMP GEAR DOWN
Ldg. Gear Lights	3 GREEN, RED OFF
Landing Gear Warning Horn	THROTTLE TO IDLE, CHECK OPERATIVE