

N5163Z

PREFLIGHT	
Aircraft Documents	ARROW
Weather	STANDARD BRIEF
Baggage	WEIGHED/SECURED
Weight/C.G.	CALCULATED
Navigation	PLANNED
Charts/Nav aids	CHECK
Performance	DETERMINED
VOR Log (IFR)	CHECK
INTERIOR	
POH	ONBOARD
Hobbs/Tach	CHECK
Control Lock	REMOVE/STOW
Ignition/Electrical/Avionics	OFF
Mixture	IDLE CUTOFF (ICO)
Master Switch	ON/CALL
Fuel Quantity	CHECK
Lights/Pitot Heat (IFR)	ON/CHECK/OFF
Flaps	EXTEND
Avionics	ON/CHECK FAN/OFF
Annunciator Panel	TEST
Master Switch	OFF
Fuel Selector	BOTH
Fuel Shutoff	FULL IN
Alternate Static	OFF
Elevator Trim	NEUTRAL
Flight Controls	FREE/CORRECT
Windows	CHECK/CLEAN
EXTERIOR	
L Fuselage	CHECK
Tail tie down	DISCONNECT
Horizontal Stabilizer	CHECK
Elevator + Rudder	CHECK
Trim Tab	SECURE
Antennas	CHECK
R Fuselage	CHECK
R Flap, Aileron & Wingtip	CHECK
R Main Gear	CHECK
R Tie down	DISCONNECT
R Leading Edge	CHECK
R Fuel Sumps	SAMPLE
R Fuel Quantity	CHECK
Nose Fuel Sumps	SAMPLE
Engine Oil	6-8 QUARTS
Engine Air Inlets	CLEAR
Propeller/Spinner	CHECK
Alternator Belt	CHECK
Air Filter	CLEAN/CLEAR
Nose Wheel	CHECK
Nose Static Source	CLEAR
L Fuel Sumps	SAMPLE
L Fuel Quantity	CHECK
L Main Gear	CHECK
Pitot Tube	CLEAR
Stall Warning Opening	CLEAR
Fuel Vent	CLEAR
L Tie down	DISCONNECT
L Leading Edge	CHECK
L Wingtip, Aileron & Flap	CHECK

BEFORE START	
Towbar	STOWED
Preflight	COMPLETE
Passenger Brief	S.A.F.E.T.Y
Seats/Seatbelts	ADJUST/SECURE
Doors/Windows	LOCKED
Brakes	Test / Set
Circuit Breakers	CHECK IN
Avionics	OFF
STARTING ENGINE	
Throttle	FULL
Mixture	RICH
Master Switch	ON/CHECK OIL TEMP
GO TO HOT START IF REQUIRED	
Flaps	UP
Beacon/Nav	ON
Fuel Pump	ON/3SEC/OFF
Throttle	CRACKED
Mixture	IDLE CUTOFF
Prop Area	CLEAR
Ignition	START
Mixture	RICH WHEN RUNNING
Throttle	700 RPM
Oil Pressure	CHECK
Mixture	LEAN FOR TAXI
HOT START	
Throttle	CRACKED
Mixture	IDLE CUTOFF
Flaps	UP
Beacon/Nav	ON
Prop Area	CLEAR
Ignition	START
Mixture	RICH WHEN RUNNING
Throttle	700 RPM
Oil Pressure	CHECK
Mixture	LEAN FOR TAXI
BEFORE TAXI	
Avionics	ON
Transponder	1200
Flaps	UP VERIFY
WX/ATIS	OBTAIN
Flight Instruments	SET
Taxi Clearance/Taxi	OBTAIN / ON
Light	
Throttle	SMOOTH ADVANCE
Brakes	TEST
RUN-UP	
Parking Brake	SET
Flight Controls	FREE AND CORRECT
Fuel Selector	BOTH
Mixture	RICH
Throttle	1800 RPM
Engine Gauges	CHECK GREEN
L & R Magnetos	CHK<150 DROP
	≤ 50 RPM DIFFERENCE
Throttle	IDLE/CHECK/700 RPM
Mixture	LEAN FOR TAXI
BEFORE TAKEOFF	
Flight Instruments	SET
Radios/Avionics	SET/CDI CHK
Engine Gauges	CHECK
Seat Belts/Harness	CHECK
Flaps	SET TAKEOFF
Trim	NEUTRAL
Doors/Windows	CHECK
Emergency Brief	PERFORM
Brakes	RELEASE

TAKING RUNWAY	
Landing/Strobe Lights	ON
Transponder (Camera)	ALT MODE
Mixture/Action	Rich
TAKEOFF - CLIMB	
V _R = 55	
V _X = 62	
V _Y = 74	
Short/ Soft Field	Flaps 10°
CRUISE	
Throttle	AS DESIRED
Trim	SET
Mixture	SET
Landing Light	OFF
Engine Gauges	GREEN
PRE-MANEUVERS	
Area	CLEAR
Lights	ON
DESCENT	
Throttle	AS DESIRED
Mixture	SET
Fuel Selector	BOTH
Flight Instruments	SET
Engine Gauges	MONITOR
Landing Light	ON
BEFORE LANDING	
G.U.M.P.S.	COMPLETE
GO AROUND / BALKED LANDING	
Throttle	FULL
Flaps	RETRACT TO 20°
Climb	60 KIAS
Flaps	10° (until obstacle clear)
Flaps	RETRACT
	(safe altitude at 65 KIAS)
Climb	74 KIAS
AFTER LANDING - TAXI	
Flaps	UP
Mixture	LEAN FOR TAXI
Land/Strobe Lights	OFF
Transponder	1200
Trim	NEUTRAL
SHUTDOWN-SECURING	
Avionics	OFF
Throttle	IDLE
Primary Lead (P-Lead)	CHECK
Mixture	IDLE CUTOFF
Ignition	OFF/KEY OUT
All Switches	OFF
Master Switch	OFF
Windows	CLOSED
Control Lock	INSTALLED
Fuel Selector	LEFT/RIGHT
Tach/Hobbs	RECORD
Aircraft	SECURE
Discrepancies	WRITE UP

ENGINE FAILURE ON TAKEOFF	
Throttle	IDLE
Brakes	APPLY
Flaps	RETRACT
Mixture	IDLE CUT OFF
Ignition	OFF
Master Switch	OFF
ENGINE FAILURE AFTER TAKEOFF	
Airspeed	70 KIAS FLAPS UP
	65 KIAS FLAPS DOWN
Mixture	IDLE CUT OFF
Fuel Shutoff Valve	OFF/PULL FULL OUT
Ignition Switch	OFF
Wing Flaps	AS REQ.
Master Switch	OFF
Cabin Door	UNLATCH
Land	STRAIGHT AHEAD
ENGINE FAILURE DURING FLIGHT	
Airspeed	68 KIAS
Fuel Selector	BOTH
Fuel Shutoff	ON/PUSH FULL IN
Aux Fuel Pump	ON
Mixture	RICH (if start not occurred)
Ignition Switch	BOTH / START
FORCED LANDING WITHOUT POWER	
Airspeed	70 KIAS FLAPS UP
	65 KIAS FLAPS DOWN
Mixture	IDLE CUT OFF
Fuel Shutoff	OFF / PULL FULL OUT
Ignition	OFF
Flaps	AS REQUIRED
Master Switch	OFF
Doors	UNLATCH
Touchdown	TAIL LOW
Brakes	APPLY HEAVILY
PRECAUTIONARY LANDING WITH POWER	
Airspeed	65 KIAS
Flaps	20°
Field	OVERFLY / INSPECT
Avionics	OFF
Flaps	30° (final)
Master Switch	OFF
Doors	UNLATCH
Touchdown	TAIL LOW
Ignition Switch	OFF
Brakes	APPLY HEAVILY
DITCHING / WATER LANDING	
Radio	TRANSMIT MAYDAY
Squawk	7700
Heavy objects	SECURE/JETTISON
Flaps	20°-30°
Power	300 FPM Desc / 56 KIAS
If No Power	65 KIAS / FLAPS 10°
Approach	HIGH WINDS-INTO WIND LIGHT WINDS-PARALLEL TO SWELLS
Doors	UNLATCH
Touchdown	LEVEL ATTITUDE
Face	BRACE
ELT	ACTIVATE
EVACUATE / INFLATE FLOTATION DEVICES WHEN CLEAR OF AIRCRAFT	

ENGINE FIRE DURING START	
Cranking	CONTINUE
IF ENGINE STARTS	
Power	1800 RPM (3 mins)
Engine	SHUTDOWN
IF ENGINE FAILS TO START	
Throttle	FULL OPEN
Mixture	IDLE CUTOFF
Cranking	CONTINUE
Fuel Shutoff	OFF / PULL FULL OUT
Aux Fuel Pump	OFF
Fire Extinguisher	ACTIVATE
Master Switch	OFF
Ignition Switch	OFF
Fire	EXTINGUISH
ENGINE FIRE DURING FLIGHT	
Mixture	IDLE CUT OFF
Fuel Shutoff	OFF / PULL FULL OUT
Aux Fuel Pump	OFF
Master Switch	OFF
Cabin Heat/Air	OFF
Airspeed	100 KIAS
Forced Landing	EXECUTE
ELECTRICAL FIRE IN FLIGHT	
Master Switch	OFF
Vents/Air/Heat	CLOSED/OFF
Fire Extinguisher	ACTIVATE
Avionics Master	OFF
Ignition Switch	ON
All Other Switches	OFF
AFTER FIRE EXTINGUISHED, VENT CABIN IF ELECTRICAL NECESSARY	
Master Switch	ON
Circuit Breakers	CHECK (do not reset)
Radio Switches	OFF
Avionics Master	ON
Radio Switches	ON ONE AT A TIME
CABIN FIRE	
Master Switch	OFF
Vents/Air/Heat	CLOSED/OFF
Fire Extinguisher	ACTIVATE
AFTER FIRE EXTINGUISHED, VENT CABIN LAND AS SOON AS POSSIBLE	
WING FIRE	
Land/Taxi Lights	OFF
Nav Lights	OFF
Strobe Lights	OFF
Pitot Heat	OFF
LANDING WITH FLAT TIRE	
Approach	NORMAL
Wings Flaps	AS DESIRED
Touchdown	GOOD TIRE FIRST

ELECTRICAL MALFUNCTIONS	
AMMETER EXCESSIVE CHARGE	
Master Switch	OFF
Master Switch	ON
STILL EXCESSIVE CHARGE	
Flight	TERMINATE ASAP
LOW VOLTAGE ANNUNCIATOR AMMETER SHOWS DISCHARGE	
Avionics	Off
Alt Field Breaker	CHECK / IN
Electrical Load	Reduce
Master Switch	OFF then ON
LOW VOLTAGE ANNUNCIATOR AGAIN	
Alternator	OFF
Electrical Load	REDUCE
Flight	TERMINATE ASAP
LOW OIL PRESSURE	
Power	REDUCE
Flight	TERMINATE ASAP
SPIN RECOVERY	
Power	IDLE
Ailerons	NEUTRAL
Rudder	FULL OPPOSITE
HOLD UNTIL SPIN STOPS	
Elevator	FORWARD
Elevator	RECOVER FROM DIVE
KWHP	
ATIS	132.1
Ground	125.0
Tower	135.0
SoCal Approach	120.4/134.2
SoCal Phone:	800-448-3724
WHP Tower:	818-834-3009
Vista Phone:	818-896-5224
V SPEEDS	
V _{S0}	40 KIAS
V _{S1}	48 KIAS
V _R	55 KIAS
V _X	62 KIAS
V _Y	74 KIAS
V _A (2550 lbs)	105 KIAS
V _A (2200 lbs)	98 KIAS
V _A (1900 lbs)	90 KIAS
V _{FE}	85 KIAS
V _{NO}	129 KIAS
V _{NE}	163 KIAS
Final Appr.	65 KIAS
Final Appr. (short)	61 KIAS
V BEST GLIDE	68 KIAS

ATC LIGHT GUN SIGNALS FOR AIRCRAFT		
COLOR & TYPE	GROUND	AIR
STEADY GREEN 	Cleared for takeoff	Cleared to land
FLASHING GREEN 	Cleared for taxi	Return for landing (to be followed by steady green)
STEADY RED 	STOP!	Give way to other aircraft and continue circling
FLASHING RED 	Taxi clear of runway in use	Airport unsafe, do not land
FLASHING WHITE 	Return to starting point on airport	N/A
ALTERNATING RED/GREEN 	Exercise extreme caution	