

Challenge	Response
AIRCRAFT ACCEPTANCE	
Pilot Tube Cover	REMOVE
Maintenance Status / Tachometer	CHECKED
Magnetos	CHECK OFF
Control Lock	REMOVE
Master Switch	ON
Avionics Switch (Bus 1 & Bus 2)	OFF
Primary Flight Display	VERIFY ON
Fuel Quantity	CHECK (reset used)
Low Fuel Annunciator	VERIFY OFF
Oil Pressure Annunciator	VERIFY ON
Low Volts Annunciator	VERIFY ON
Low Vacuum Annunciator	VERIFY ON
Avionics Switch (Bus 1)	ON
Forward Avionics Fan	CHECK OPERATION
Avionics Switch (Bus 1)	OFF
Avionics Switch (Bus 2)	ON
Aft. Avionics Fan	CHECK OPERATION
Avionics Switch (Bus 2)	OFF
Pilot Heat	CHECKED
Master Switch	OFF
Alternate Static Air	OFF
Trim Controls	TAKEOFF POSITION
Fuel Shutoff Valve	ON
Fuel Selector Valve	BOTH
Fire Extinguisher	CHECKED
Hobbs	RECORDED
AR(R)OW	CHECKED
G1000 Reference Guide	ACCESSIBLE
BEFORE STARTING ENGINE	
Preflight Inspection	COMPLETE
Seat Belts / Harnesses	ON
Doors	CLOSED AND LATCHED
Passenger Briefing	COMPLETE
Circuit Breakers	CHECKED IN
Electrical Equipment	OFF
Avionics Switch	OFF
Fuel Selector	BOTH
Brakes	SET
STARTING ENGINE	
Throttle	OPEN ¼ INCH
Mixture Control	IDLE CUT-OFF
Standby Battery Switch	TEST then ARM
Engine Indication System	CHECKED
Bus E Volts	VERIFY 24 VOLTS MIN.
M Bus Bolts	VERIFY ≤ 1.5 VOLTS
Battery S Amps	VERIFY DISCHARGE
Standby Battery Annunciator	VERIFY ON
Propeller Area	CLEAR
Master Switch	ON
Beacon	ON
Fuel Pump	AS REQUIRED
Mixture Control	IF REQUIRED ADVANCE to FULL RICH/PRIME
Mixture Control	IDLE CUT-OFF
Fuel Pump	OFF
Magneto Switch	START
Mixture Control	ADVANCE AFTER START
Oil Pressure	CHECK
Throttle	1000 RPM

Challenge	Response
STARTING ENGINE (continued)	
AMPS	CHECK POSITIVE CHARGE
Low Volts Annunciator	VERIFY OFF
Avionics Switch (Bus 1 & Bus 2)	ON
Lights	AS REQUIRED
Mixture	AS REQUIRED
TAXI	
Seat / Seat Belts	SECURE
Brakes / Steering	CHECKED
Instruments	CHECKED
BEFORE TAKEOFF	
Parking Brake	SET
Pilot and Passenger Seat Backs	MOST UPRIGHT POSITION
Seats and Seat Belts	CHECK SECURE
Cabin Doors	CLOSED and LOCKED
Flight Controls	FREE and CHECKED
Flight Instruments (PFD)	CHECK (no red X's)
Altimeters:	
PFD (BARO)	SET
Standby Altimeter	SET
ALT SEL	SET
Standby Flight Instruments	CHECK
Fuel Quantity	CHECK (verify level is correct)
NOTE - Flight is not recommended when both fuel quantity indicators are in the yellow band range.	
Mixture Control	RICH
FUEL SELECTOR Valve	SET BOTH
Autopilot	CHECK (if applicable)
Electric Trim Control	SET FOR TAKEOFF
Throttle Control	1800 RPM
MAGNETOS Switch	CHECK (Max. 150 rpm/ 50 diff)
VAC Indicator	CHECK
Engine Indicators	CHECK
Ammeters and Voltmeters	CHECK
Annunciators	CHECK (verify none shown)
Throttle Control	CHECK IDLE
Throttle Control	1000 RPM or LESS
Throttle Control Friction Lock	ADJUST
Mixture	AS REQUIRED
COM Frequency(s)	SET
NAV Frequency(s)	SET
FMS/GPS Flight Plan	AS DESIRED
XPDR	SET
CDI Soft Key	SELECT NAV SOURCE
Departure Briefing	COMPLETE
CABIN PWR 12V Switch	OFF
Wing Flaps	UP - 10° (10° preferred)
Cabin Windows	CLOSED and LOCKED
STROBE Light Switch	ON
Brakes	RELEASE

Challenge	Response
LINE UP	
Flaps and Trim.....	SET
Exterior Lights.....	ON
Pitot Heat.....	AS REQUIRED
Mixture.....	RICH (BELOW 3000 PRESSURE ACTUAL)
CLIMB	
Flaps.....	UP
Mixture.....	AS REQUIRED
Engine Gauges.....	CHECKED
Airspeed.....	V _Y (74) until 1000' then 75-85 KIAS
Trim.....	SET
CRUISE	
Power.....	SET
Trim.....	SET
Mixture.....	AS REQUIRED
Landing Light.....	AS REQUIRED
Flight Instruments.....	CHECKED
DESCENT	
Weather.....	CHECKED
Power.....	AS REQUIRED
Mixture.....	AS REQUIRED
Trim.....	SET
Altimeters.....	SET
CDI Soft Key.....	SELECT NAV SOURCE
Exterior Lights.....	AS REQUIRED
Approach Briefing.....	COMPLETE
BEFORE LANDING	
Passenger Briefing.....	COMPLETE
Seat Belts / Harnesses.....	ON
Fuel Selector.....	BOTH
Mixture.....	AS REQUIRED
Airspeed.....	65-75 FLAPS UP / 60-70 FULL FLAPS
Flaps.....	SET
Landing Light.....	ON
Autopilot.....	OFF
AFTER LANDING	
Landing Light/Anti-Collision Light.....	OFF
Trim.....	RESET
Mixture.....	AS REQUIRED
Flaps.....	UP
Pitot Heat.....	OFF
SECURING	
Brakes.....	SET
Throttle.....	IDLE
Avionics Switch (Bus 1 & Bus 2).....	OFF
Magnetos.....	GROUND CHECK
Mixture.....	IDLE CUT-OFF
Magnetos / Keys.....	OFF & OUT
Electrical Equipment.....	OFF
Hobbs/Tach.....	RECORD
Master Switch.....	OFF
Standby Battery Switch.....	OFF
Fuel Selector.....	LEFT or RIGHT
Chocks / Control Lock & Tie Down.....	IN & SECURE

Challenge Response

ENGINE FAILURE DURING TAKEOFF ROLL

Throttle.....	IDLE
Brakes.....	APPLY
Wing Flaps.....	RETRACT
Mixture.....	IDLE CUT-OFF
Fuel Shutoff Valve.....	PULL OFF
Magneto Switch.....	OFF
Standby Battery Switch.....	OFF
Master Switch.....	OFF

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

Airspeed.....	(flaps up) 70 KIAS
Mixture.....	IDLE CUT-OFF
Fuel Shutoff Valve.....	PULL OFF
Magnetos.....	OFF
Wing Flaps.....	AS REQUIRED
Standby Battery Switch.....	OFF
Master Switch.....	OFF
Door.....	UNLATCH

ENGINE FAILURE IN FLIGHT

Trim for Best Glide.....	68 KIAS
Pick Suitable Landing Site	
Fly Toward Landing Site	
Fuel Shutoff Valve.....	ON
Fuel Selector.....	BOTH
Fuel Pump.....	ON
Mixture.....	RICH
Magnetos.....	ON / BOTH
IF NO RESTART OR AN OFF AIRPORT LANDING IS NECESSARY:	
Squawk Code: 7700 (121.5)	
Passenger Briefing.....	COMPLETE
Mix, Mags, Fuel Shutoff Valve, Fuel Pump.....	OFF
Flaps.....	AS REQUIRED
Standby Battery Switch.....	OFF
Master Switch.....	OFF
Seats / Seat Belts.....	SECURE
Loose Objects.....	STOW
Doors.....	AJAR

ENGINE FIRE DURING START UP

Cranking.....	CONTINUE
IF ENGINE STARTS:	
Throttle.....	1800 RPM
Engine.....	SHUTDOWN
Engine.....	INSPECT
IF ENGINE FAILS TO START:	
Throttle.....	FULL OPEN
Mixture.....	IDLE CUT-OFF
Cranking.....	CONTINUE
Fuel Shutoff Valve.....	PULL OFF
Fuel Pump.....	OFF
Magnetos.....	OFF
Standby Battery Switch.....	OFF
Master Switch.....	OFF

 Highlighted Items Should be Committed to Memory

Challenge Response

ENGINE FIRE DURING START UP (continued)

Fire Extinguisher.....	OBTAIN / ARM
Engine.....	SECURE
Airplane.....	EVACUATE
Engine.....	INSPECT

ENGINE FIRE IN FLIGHT

Mixture.....	IDLE CUT-OFF
Fuel Shutoff Valve.....	OFF / PULL OUT
Fuel Pump.....	OFF
Standby Battery Switch.....	OFF
Master Switch.....	OFF
Vents Heat / Air.....	CLOSED
(except overhead vents)	
Airspeed.....	100 KIAS
(If fire is not extinguished, increase glide speed to find an airspeed which will provide an incombustible mixture.)	
Forced Landing.....	EXECUTE
SEE ENGINE FAILURE IN FLIGHT: NO RESTART CHECKLIST	

ELECTRICAL FIRE IN FLIGHT

Standby Battery Switch.....	OFF
Master Switch.....	OFF
All Other Switches Except Ignition.....	OFF
Vents Heat / Air.....	CLOSED
Fire Extinguisher.....	ACTIVATE

WARNING: AFTER DISCHARGING FIRE EXTINGUISHER WITHIN CLOSED CABIN, VENTILATE CABIN
IF FIRE APPEARS OUT AND ELECTRICAL POWER IS NECESSARY FOR CONTINUANCE OF FLIGHT
Circuit Breakers..... check for faulty circuit, do not reset
Master Switch..... **ON**
Avionics Switch (Bus 1)..... **ON**
Avionics Switch (Bus 2)..... **ON**

AMMETER SHOWS EXCESSIVE RATE OF CHARGE

Master.....	OFF
Non-Essential Electrical Equip.....	OFF
Avionics Switch (Bus 1 & 2).....	OFF
Flight.....	LAND AS SOON AS PRACTICAL

LOW VOLTAGE LIGHT ILLUMINATES IN FLIGHT

Avionics Switch (Bus 1 & 2).....	OFF
Alternator Circuit Breaker.....	CHECK IN
Master Switch.....	OFF
Master Switch.....	ON
Low Voltage Light.....	CHECK OFF
Avionics Switch (Bus 1 & 2).....	ON
IF LOW VOLTAGE LIGHT ILLUMINATES AGAIN	
Alternator.....	OFF
Non-Essential Radio / Electrical Equip.....	OFF
Flight.....	LAND AS SOON AS PRACTICAL

 Highlighted Items Should be Committed to Memory

Challenge	Response
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AIR DATA SYSTEM FAILURE

RED X-PFD AIRSPEED INDICATOR

ADC/AHRS Circuit Breakers.....**CHECK IN**

If open, reset circuit breaker. If circuit breaker opens again, do not reset.

Standby Airspeed Indicator**USE**

RED X-PFD ALTITUDE INDICATOR

ADC/AHRS Circuit Breakers.....**CHECK IN**

If open, reset circuit breaker. If circuit breaker opens again, do not reset.

Standby Altimeter**USE**

AHRS FAILURE

RED X-PFD ATTITUDE INDICATOR

ADC/AHRS Circuit Breakers.....**CHECK IN**

If open, reset circuit breaker. If circuit breaker opens again, do not reset.

Standby Attitude Indicator.....**USE**

RED X-PFD HORIZONTAL SITUATION INDICATOR

ADC/AHRS Circuit Breakers.....**CHECK IN**

If open, reset circuit breaker. If circuit breaker opens again, do not reset.

Magnetic Compass.....**USE**

 *Highlighted Items Should be Committed to Memory*