



DA20-C1 CHECKLIST



PREFLIGHT - Cabin

1. Structural Temperature Ind.....CHECK
2. Airplane DocumentsARROW
3. Flight Control LockREMOVED
4. Flight ControlsCHECK
5. Ignition KeyPULLED OUT
6. Cabin HeatFREE
7. Parking BrakeFREE
8. ThrottleFREE, IDLE
9. MixtureFREE, IDLE CUTOFF
10. GEN/BAT Master.....ON
11. Gen & Canopy Warning Lights.....LIT
12. Fuel QuantitySUFFICIENT
13. Engine Gauges.....CHECK
14. Ammeter.....CHECK VOLTMETER
15. Circuit Breakers.....PRESSED IN
16. Map Light.....OPERATIONAL
17. Instrument Lights.....OPERATIONAL
18. Trim.....NEUTRAL
19. Wing Flaps Indicator.....CHECK, EXTEND
20. Trim/ Flap Ind. Lights.....OPERATIONAL
21. Exterior LightsAS REQUIRED
22. GEN/BAT Master SwitchOFF
23. Foreign Object InspectionDONE
24. Fire ExtinguisherCHECK
25. Rescue HammerCHECK
26. BaggageNET ATTACHED
27. CanopyCLEAN, UNDAMAGED

PREFLIGHT - Left Main Gear

1. Landing Gear StrutCHECK
2. Wheel FairingCHECK
3. Tire Pressure (33 psi / 2.3 bar).....CHECK
4. Tire, Wheel, BrakeCHECK
5. Wheel ChocksREMOVE

PREFLIGHT - Left Wing

1. Entire WingCHECK
2. Stall WarningCHECK
(suck on opening)
3. Pitot-Static Probe.....CLEAN HOLE OPEN
4. TiedownREMOVE
5. Taxi and Landing LightsCHECK
6. Wing Tip, Pos. Lights, Strobe.....CHECK
7. Aileron Balancing WeightCHECK
8. Aileron/Inspection PanelCHECK
9. Wing Flap/Inspection PanelCHECK

PREFLIGHT - Fuselage

1. SkinCHECK
2. Fuel Tank VentCHECK
3. Fuel DrainsDRAIN WATER
4. Structural Temperature Ind.....CHECK
5. MxFuel DrainsNO LEAKS
6. Fuel QuantityCHECK
7. AntennasCHECK

PREFLIGHT - Empennage

1. Stabilizers & Control Surfaces.....CHECK
2. Tie downREMOVE
3. Fixed Tab on Rudder.....CHECK

PREFLIGHT - Right Wing

1. Entire WingCHECK
2. Wing Flap + Inspection PanelCHECK
3. Aileron + Inspection PanelCHECK
4. Aileron Balancing WeightCHECK
5. Wing Tip, Pos. Lights, StrobeCHECK
6. Tie downREMOVE

PREFLIGHT - Right Main Gear

1. Landing Gear StrutCHECK
2. Wheel FairingCHECK
3. Tire Pressure (33 psi /2.3 bar).....CHECK
4. Tire, Wheel, BrakeCHECK
5. Wheel ChocksREMOVE

PREFLIGHT - Nose Area

1. OilCHECK LEVEL
(Max level is 6 US quarts)
(Min level is 4 US quarts)
2. CowlingCHECK
3. Air IntakesCLEAR
4. Prop.....CHECK
5. Prop BladesCHECK FOR DAMAGE
6. SpinnerCHECK
7. Nose GearCHECK
8. Wheel FairingCHECK
9. Tire Pressure (26 psi/1.8 bar).....CHECK
10. Tire and Wheel.....CHECK
11. Wheel Chocks.....REMOVE

BEFORE ENGINE START

1. Pedals ADJUST, LOCK
(pull T-grip straight back)
2. Canopy.....CLOSE/SECURE

3 PASSENGER BRIEFING

- Seat Belts/Position.....CHECK
- Air Vents/Environment.....CHECK
- Fire Extinguisher.....CHECK
- Exits/Emergency Plan.....BRIEF
- Talking/Traffic Scanning.....BRIEF
- Your Questions.....DISCUSS

4. Parking BrakeSET
5. Fuel Shut-off Valve.....OPEN
6. Circuit Breakers.....CHECK PRESSED IN
7. Avionics Master SwitchOFF
8. GEN/BAT Master SwitchON
9. Canopy Unlock Warning Light.....OFF
10. Exterior LightsAS REQUIRED
11. Inst. Panel Lighting.....AS REQUIRED

ENGINE START

1. Throttle.....IDLE
2. MixtureFULL RICH
3. Toe BrakesHOLD
4. Propeller AreaCLEAR
5. Fuel PumpON
6. Fuel PrimeON
7. COLD START - Throttle.....FULL
(prime for 5-10 sec min)
8. HOT START - Throttle.....FULL
(prime for 1-3 sec min)
9. ThrottleIDLE to 1/4 inch
OPEN
10. Ignition Switch.....START
11. Starter Warning Light.....LIT
12. Throttle.....1000 ± 25 RPM
13. Fuel PrimeOFF
14. Engine InstrumentsCHECK
15. Mixture.....LEAN FOR TAXI

BEFORE TAXI

1. Avionics Master Switch.....ON
2. Flight Instruments and Avionics.....SET
3. Warn. Lights/Gen/Canopy/Start.....PUSH
4. ATIS/AWOS/ASOS.....OBTAIN
5. Altimeter.....SET
6. Heading Indicator.....SET
7. Flaps.....UP
8. Parking Brake.....RELEASE
9. Brakes.....CHECK

10. Throttle.....AS REQUIRED

RUN UP

1. Brakes.....APPLY
2. Safety Belts.....FASTENED
3. Canopy.....CLOSED & LOCKED
4. Fuel PressureCHECK
5. Fuel Quantity IndicatorCHECK
6. Flight ControlsFREE/CORRECT
7. Oil Temp.75° MINIMUM
8. Throttle1700 RPM
9. Mixture.....BEST POWER
10. Magnetos.....CHECK
(25-150 max drop, 50 max difference)
11. Alt. LoadCHECK
12. Oil Pressure30-60 PSI
13. Vacuum GaugeIN GREEN RANGE
14. Throttle.....CHECK IDLE (975 RPM)
15. Throttle1000 RPM
16. Parking BrakeRELEASE

PRE-TAKEOFF

1. Flaps.....T/O
2. Lights.....AS REQUIRED
3. Trim.....NEUTRAL
4. Departure Brief.....COMPLETE

TAKEOFF

1. ThrottleFULL
2. Elevator (@start of roll)NEUTRAL
3. Directional Controlmaintain w/rudder
4. Rotate44 KIAS
5. Climb Speed (50 ft. obstacle).....58 KIAS

CLIMB

1. MixtureBEST POWER
2. ThrottleFULL
3. Wing Flaps (400 ft AGL)CRUISE
4. Airspeed75 KIAS
5. TrimADJUST
6. Engine GaugesCHECK

CRUISE

1. Fuel Pump.....OFF
2. ThrottleAS REQUIRED
3. Mixture.....lean 25° F rich of peak EGT
4. TrimAS REQUIRED

DESCENT

1. Flight Instruments and Avionics.....ADJUST
2. ATIS/AWOS/ASOS.....OBTAIN
3. Fuel PumpON
4. Mixture.....ENRICHEN
5. ThrottleAS REQUIRED

TO ACHIEVE FAST DESCENT:

- ThrottleIDLE
- Wing FlapsCRUISE
- Airspeed118 KIAS

LANDING APPROACH

1. Seat BeltsFASTENED
2. LightsAS REQUIRED
3. GEN/BAT Master SwitchCHECK ON
4. Ignition SwitchCHECK BOTH
5. Fuel PumpCHECK ON
6. MixtureSET
7. ThrottleAS REQUIRED
8. AirspeedMAX. 78 KIAS
9. Wing FlapsT/O
10. TrimAS REQUIRED
11. Wing FlapsLDG
12. Approach Speed55 KIAS

BALKED LANDING

1. ThrottleFULL
2. Wing FlapsT/O
3. Airspeed58 KIAS

AFTER LANDING

1. Throttle.....AS REQUIRED
2. Wing Flaps.....CRUISE
3. AvionicsAS REQUIRED
4. Exterior Lights.....AS REQUIRED

ENGINE SHUTDOWN

1. ThrottleIDLE
2. Avionics Master SwitchOFF
3. Lights.....OFF
4. Fuel PumpOFF
5. MixtureIDLE CUT-OFF
6. Ignition SwitchOFF
7. GEN/BAT Master Switch.....OFF
8. Tiedowns/Wheel Chocks...AS REQUIRED

GUMPS

- Gas (Fuel Shut off/Pump).....CHECK
- UndercarriageDOWN AND LOCKED
- MixtureSET
- Power.....AS DESIRED
- Switches/SeatbeltsCHECK

V SPEEDS

- Va.....106 KIAS
- Vfe.....100 KIAS
- Vfe (LDG).....78 KIAS
- Vno.....118 KIAS
- Vne.....164 KIAS
- Vs.....44 KIAS
- Vso.....40 KIAS
- Vx T/O.....58 KIAS
- Vx Cruise.....60 KIAS
- Vy.....75 KIAS
- Best glide.....73 KIAS

PATTERN SPEEDS

- Downwind.....75 KIAS
- Base.....65 KIAS
- Final.....55 KIAS

LOCAL FREQUENCIES

- ATIS.....118.55 MHz
- Ground.....121.7 MHz
- Tower.....118.1 MHz
- Practice Area.....122.75 MHz
- Flight Service.....122.6 MHz
- Denver Center.....134.5 MHz
- Denver Approach/Departure.....119.7 MHz

OFFICE #

970.254.0444

**IF YOU ARE UNABLE TO RETURN TO
GRAND JUNCTION WHEN EXPECTED/A
LANDING IS REQUIRED AT ANOTHER
AIRPORT DUE TO MECHANICAL ISSUES OR
WEATHER, PLEASE CLOSE YOUR FLIGHT
PLAN, THEN CALL YOUR INSTRUCTOR OR
THE SCHOOL OFFICE/CHIEF FLIGHT
INSTRUCTOR AS SOON AS PRACTICAL.**