

C-414 NORMAL CHECKLIST

SAFETY AND INSPECTION

1. Fuel and Oil Quantity.....CHECKED
2. Surfaces and Chocks.....CHECKED
3. Maintenance Status.....CHECKED
4. Passenger Briefing.....COMPLETED
5. Weight and Balance.....COMPLETED

BEFORE STARTING ENGINES

1. Parking Brake.....SET
2. Preflight.....COMPLETED
3. Cabin Door.....LATCHED AND SECURE
4. Seat, Belts and Harnesses.....SECURED
5. Emergency Crossfeed Shutoff.....OPEN
6. Fuel SelectorsMAIN TANKS
7. Cowl Flaps.....OPEN
8. Yaw Damper.....OFF
9. Mixtures.....FULL RICH
10. Props.....HIGH RPM
11. Throttles 1/2"OPEN
12. Synchrophaser.....OFF
13. Flight Controls.....CHECK
14. Switches & Circuit Breakers.....SET
15. Magneto Switches.....ON
16. Battery and Alternator Switches.....ON
17. Fuel Quantity GaugesCHECK
18. Gear Switch and Position LightsCHECK
19. Prop and Blast Areas.....CLEAR
20. Exterior Lights.....AS REQUIRED

-----CLEARED FOR START-----

1. Engines.....START
2. Oil Pressure.....25 PSI within 30 Seconds
3. Engine Indicators.....CHECK
4. Vacuum Gage.....CHECK

AFTER START / TAXI

1. Aux. Fuel Pumps.....OFF
2. Warm Up.....900-1000 RPM
3. Avionics.....ON
4. Exterior Lights.....AS REQUIRED
5. Air Circulator/Heater.....AS REQUIRED
6. Interior Lights.....AS REQUIRED
7. Accessory Switches.....ON
8. Mixtures.....SET
9. Radios.....SET
10. Brakes.....CHECK
11. Instruments.....CHECK
12. Altimeters/ASA.....SET

BEFORE TAKEOFF

1. Parking Brake.....SET
2. Autopilot.....CHECK
3. Electric Trim.....CHECK
4. Fuel Quantity.....CHECK
5. Fuel Selectors.....MAIN TANKS
6. Cowl Flaps.....OPEN
7. Flaps.....UP
8. Trim.....SET FOR TAKEOFF
9. Avionics and Radios.....SET
10. Flight Instruments.....SET
11. Alternate Air and Ram Dump.....IN
12. Pressurization Controls.....SET
13. Mixture.....RICH or as Req'd
14. Throttles.....1700 RPM
15. L&R Hyd Flow Lights.....OFF
16. Vacuum System.....CHECK
17. Annunciator Panel.....CHECK
18. Alternators and Battery Meter.....CHECK
19. Props.....FEATHERING CHECK
20. Magnetos.....CHECK
21. Engine Instruments.....CHECK
22. Throttles.....IDLE 1000 RPM
23. Doors and Windows.....LOCKED
24. Spoilers (if installed).....RETRACTED
25. Takeoff Briefing.....REVIEWED
26. Parking Brake.....OFF
27. Minimum Takeoff Oil Temp.....75F

-----CLEARED FOR TAKEOFF-----

1. Wing Flaps.....UP
2. Transponder.....ON ALT
3. Air Conditioner.....RECIRCULATE or OFF
4. Boost Pumps.....LOW
5. Lights.....AS REQUIRED
6. Anti-Ice.....AS REQUIRED
7. Takeoff Time.....DOCUMENT
8. Power.....SET
9. Fuel Flow & Engine Instruments....CHECKED

AFTER TAKEOFF / CLIMB

- Vx.....88 Vy.....112
1. Gear.....UP
 2. Yaw Damper.....ON
 3. Taxi Lights.....OFF
 4. Heater or Air Conditioner.....AS REQUIRED
 5. Climb Power.....SET
 6. Mixtures.....CHECK
 7. Engine Instruments.....CHECK
 8. Pressurization.....CHECK

CRUISE

- 1. Cruise Power.....SET
- 2. Cowl Flaps.....AS REQUIRED
- 3. Props.....SET
- 4. Mixture.....SET
- 5. Cabin Altitude and Differential.....CHECK
- 6. Recognition Lights (if installed).....OFF

DESCENT / APPROACH

- 1. Approach Briefing.....COMPLETE
- 2. Fuel Selectors.....MAIN
- 3. Pressurization.....SET
- 4. Altimeters.....SET
- 5. Power.....SET
- 6. Anti-Ice.....AS REQUIRED
- 7. Mixtures.....ADJUST
- 8. Seat Belts and Shoulder Harnesses.....ON
- 9. Seat Backs.....UPRIGHT
- 10. Tables.....STOWED
- 11. Lights.....AS REQUIRED
- 12. Cowl Flaps.....CLOSED

BEFORE LANDING

- 1. Heater.....COMBUSTION OFF
- 2. LightsAS REQUIRED
- 3. Boost Pumps.....LOW
- 4. Prop Sync.....OFF
- 5. Gear.....DOWN
- 6. Mixtures.....ADJUST
- 7. Auto-PilotOFF
- 8. Flaps.....AS REQUIRED
- 9. Yaw DamperOFF
- 10. Props.....SET

AFTER LANDING

- 1. Cowl Flaps.....OPEN
- 2. Flaps.....UP
- 3. Trim Tab.....SET TO ZERO
- 4. Transponder.....STANDBY
- 5. Air Circulation.....AS REQUIRED
- 6. Boost Pumps.....OFF
- 7. Lights.....AS REQUIRED

SHUTDOWN

- 1. Flight Time.....DOCUMENT
- 2. Accessory Switches/Air Circulators.....OFF
- 3. Mixtures.....IDLE CUT OFF
- 4. Magneto Switches.....OFF
- 5. Battery and Alternators.....OFF
- 6. Emergency Crossfeed Shutoff.....CLOSED
- 7. Wheel Chocks.....INSTALLED

AIRSPEDS FOR SAFE OPERATION

- Vmca.....72 KTS**
- VX.....88 KTS
- VssE.....98 KTS**
- VxSE.....100 KTS
- VySE.....112 KTS**
- Vy.....110 KTS
- Va.....151 KTS**
- Vlo & vle.....178 KTS
- Vfe.....15 = 171.....45 = 140 KTS**

ENGINES

Continental TSIO 520-NB
 Oil Capacity 12 Quarts Useable Fuel 206 Gallons
 Battery 24V
Mains 70 psi Nose 35 psi
 Max Diff 5.3 psi

WEIGHT & BALANCE ARM DATA

- Avionics Bay 200 MAX.....32
- Nose Bags 325 MAX.....71
- Front Seats.....137
- Aft Facing Seats.....178
- Wing Lockers 400 MAX.....186
- Back Row Seats.....218
- Lav Seat.....250
- Rear Bags A 400 MAX.....266
- Rear Bags B 100 MAX.....282
- Fuel 1236 Max.....165.2

CG Limits 155.5 to 160.04 at Full Weight
 See AFM for Lighter Weight Operations

TAKEOFF WT 7087
MAX ZERO FUEL WT 6515
MAX LANDING WT 6750