

BEFORE STARTING ENGINES

- ◆ 1. Controls Lock.....STOWED
- ◆ 2. Safety Belts, Shoulder
Harnesses & Seats..... SECURE & ADJUST
- ◆ 3. Flight ControlsCHECK
- 4. Oxygen System:
 - a. Pass Mask ValveAUTO
 - b. Pass Oxygen Valve NORM
 - ◆ c. Oxygen PressureCHECK
 - d. Crew Masks CHECK & SELECT 100%
- ◆ 5. Circuit Breakers IN
- 6. Landing Gear Switch DN
- ◆ 7. Emergency Battery(ies)..... CHECK & ON
- ◆ 8. Panel Switches & Avionics OFF or SET
 - Fuel Cmptr (ON) Pitch Trim (PRI)
 - Anti-Skid (ON) Jet Pumps (ON)
 - Static Source (BOTH) Emer Press (NORM, if instl)
 - Bleed Air (ON)
- ◆ 9. Batteries CHECK & ON
- ◆ 10. GPU (if desired).....CONNECT & ON
- ◆ 11. Inverters CHECK & ON
- ◆ 12. Emergency Lights (if installed)TEST & ARMED

(Procedure Continued)

- a. Hydraulic Pressure.....CHECK
- b. Emergency Air PressureCHECK
- ◆ 14. Parking Brake SET
- ◆ 15. Hyd Pump..... OFF
- 16. Annunciator Lights TEST
- 17. Warning Systems:
 - a. Ice Detect LightsCHECK
 - b. Gear Warning..... TEST
 - ◆ c. Fire Detect TEST

Start One Engine if GPU not Utilized
(See **Starting Engines** Checklist)

 - d. Cabin Altitude TEST
 - e. Stick Puller/Mach WarningCHECK
 - f. Mach Trim..... TEST
 - g. Stall Warning System (L & R) TEST
- ◆ 18. Standby Gyro UNCAGE, GYRO ERECT
- 19. Pressurization & Temperature Controls:
 - a. Pressurization Controls:
 - (1) L and R Bleed Air Switches ON
 - (2) Cabin Air OFF
 - (3) Auto-Man Switch..... AS DESIRED
 - ◆ (4) Cabin Controller.....CRUISE ALTITUDE
 - (5) Rate Selector AS DESIRED
 - (6) IN NORMAL/OUT DEFOG Knob (if installed).....PUSH IN
 - b. Cabin Temp Controls..... AS DESIRED

(Procedure Continued)

EFFECTIVITY ALL

- a. Secondary Pitch & Cutout.....CHECK
- ◆ b. Primary Pitch & CutoutCHECK
- c. Trim Speed (FC-530 autopilot).....CHECK
- d. Trim Monitor (FC-530 autopilot)CHECK
- e. Aileron.....CHECK
- f. RudderCHECK
- ◆ g. Takeoff Trim (all three axes) SET
- ◆ 21. Autopilot Monitor.....CHECK
- ◆ 22. Yaw DampersCHECK
- 23. Fuel Panel:
- ◆ a. Fuel Counter ZERO
- ◆ b. Fuel Quantities.....CHECK
- ◆ c. Crossflow Valve..... CLOSE
- ◆ d. Transfer — Fill..... OFF
- e. Standby Pumps..... CHECK & OFF
- ◆ f. Fuselage Valve (if installed) CLOSE
- g. Fuel Jettison OFF
- ◆ 24. Drag Chute Handle (if installed) STOWED
- ◆ 25. Takeoff Data (N₁, V₁, VR, V₂ & T.O. Distance) COMPUTE & BUGS SET

EFFECTIVITY ALL

STARTING ENGINES

- ◆ 1. Cabin Door SECURED & LIGHT OUT
- 2. Fuel Computers ON
- ◆ 3. Air Conditioner OFF
- ◆ 4. Aux Heat (if installed) OFF
- ◆ 5. Batteries ON
 - *Lead Acid — 24 vdc minimum*
 - *Nickel-Cadmium — 23 vdc minimum*
- ◆ 6. Inverters ON
- ◆ 7. Parking Brake (hydraulic pressure req'd) SET
- ◆ 8. Hyd Pump OFF
- ◆ 9. Beacon Light ON
- 10. Thrust Levers CUTOFF
- ◆ 11. Engine START
- ◆ 12. Start-Gen Switch:
 - *GPU Assisted Start* OFF @ IDLE
 - *Battery Start* GEN @ IDLE
- ◆ 13. Voltmeter & Ammeter CHECK
- 14. Spoileron/Spoilers CHECK
- ◆ 15. Flaps 20° or 8°
- ◆ 16. Hydraulic Pressure CHECK

Return to and Complete
Before Starting Engines Checklist (if required)

- ◆ 17. Other Engine OPTIONAL START
 If other engine is not started, refer to **Before Taxi (One Engine)** Checklist,
 page N-10
- ◆ 18. GPU (if used) DISCONNECT
- ◆ 19. Start-Gen Switches GEN

(Procedure Continued)

EFFECTIVITY ALL

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- ◆ 20. Battery Charging Bus/Current Limiters.....CHECK
- ◆ 21. Starter Disengagement (if required)CHECK
- ◆ 22. Voltmeters & Ammeters.....CHECK

BEFORE TAXI (TWO ENGINE)

- ◆ 1. Avionics SET
- ◆ 2. Radar..... STBY
- ◆ 3. Circuit Breakers IN
- ◆ 4. Coffee/Oven (if installed)AS DESIRED
- 5. Fuel Control GovernorCHECK
- ◆ 6. Windshield HeatPURGE AS REQ'D
- ◆ 7. Lights ON, AS REQ'D
- ◆ 8. Anti-Skid ON, LIGHTS OUT
- ◆ 9. Pax Briefing/Cabin SecuredCOMPLETE
- ◆ 10. **No Smoking Fasten Seat Belt Sign**..... **ON**
- ◆ 11. Parking BrakeRELEASE

**TAXI AND BEFORE TAKEOFF
(TWO ENGINE)**

- ◆ 1. Brakes & Steering.....CHECK
- ◆ 2. Fuel PanelCHECKED & BALANCED
- TR. Thrust Reversers (if installed).....CHECK & STOWED
- ◆ 3. Flight ControlsCHECK
- ◆ 4. Flight InstrumentsCHECK
- ◆ 5. Takeoff Data
(N₁, V₁, V_R, V₂ & T.O. Distance)REVIEWED & BUGS SET
- ◆ 6. Engine InstrumentsCHECK
- ◆ 7. Voltmeters & Ammeters.....CHECK

(Procedure Continued)

- ◆ 8. Nav Equipment SET
- ◆ 9. Radar AS REQ'D
- ◆ 10. **Spoilers** **RETRACTED, LIGHT OUT**
- ◆ 11. **Flaps** **SET 20° or 8°, CHECK INDICATION**
- ◆ 12. **Trims (3)**..... **SET/PRI/LIGHT OUT**
- ◆ 13. **Pressurization**..... **SET**
- ◆ 14. **Cabin Air**..... **ON**
- ◆ 15. Cabin Temp Controls SET
- ◆ 16. Anti-Ice Systems..... CHECK & AS REQ'D
- ◆ 17. Electrically-Heated Windshield (if installed)..... ON
- ◆ 18. Crew Takeoff Briefing..... COMPLETE

TAKEOFF PITCH TRIM SETTINGS — DEGREES

CENTER OF GRAVITY — % MAC							
5	8	12	16	20	24	28	30
7.6	7.5	7.4	7.3	7.2	6.1	5.0	5.0

BEFORE TAXI (ONE ENGINE)

- ◆ 1. GPU (if used)..... DISCONNECT
- ◆ 2. Start-Gen Switch GEN
- ◆ 3. Voltmeter & AmmeterCHECK
- ◆ 4. Avionics SET
- ◆ 5. Radar..... STBY
- ◆ 6. Circuit BreakersIN
- ◆ 7. Coffee/Oven (if installed) AS DESIRED
- ◆ 8. Lights ON, AS REQ'D
- ◆ 9. Anti-Skid ON, LIGHTS OUT
- ◆ 10. Pax Briefing/Cabin Secured COMPLETE
- ◆ 11. **No Smoking Fasten Seat Belt Sign**..... **ON**
- ◆ 12. Parking BrakeRELEASE

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EFFECTIVITY ALL

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TAXI AND BEFORE TAKEOFF (ONE ENGINE)

- ◆ 1. Brakes & Steering.....CHECK
- ◆ 2. Fuel Panel CHECKED & BALANCED
- ◆ 3. Flight Instruments.....CHECK
- ◆ 4. Takeoff Data
(N1, V1, VR, V2 & T.O. Distance)REVIEWED & BUGS SET
- ◆ 5. Nav Equipment..... SET
- ◆ 6. Radar AS REQ'D
- ◆ 7. **Spoilers** **RETRACTED, LIGHT OUT**
- ◆ 8. **Flaps** **SET 20° or 8°, CHECK INDICATION**
- ◆ 9. **Trims (3)**..... **SET/PRI/LIGHT OUT**
- ◆ 10. **Pressurization**..... **SET**

TAKEOFF PITCH TRIM SETTINGS — DEGREES

CENTER OF GRAVITY — % MAC							
5	8	12	16	20	24	28	30
7.6	7.5	7.4	7.3	7.2	6.1	5.0	5.0

(Procedure Continued)

Ready to Start 2nd Engine:

- ◆ 11. Air Conditioner OFF
- ◆ 12. Aux Heat (if installed) OFF
- 13. Thrust Lever CUTOFF
- ◆ 14. Engine START
- ◆ 15. Start-Gen Switch GEN @ IDLE
- ◆ 16. Battery Charging Bus/Current Limiters CHECK
- ◆ 17. Starter Disengagement (if required) CHECK
- ◆ 18. Voltmeter & Ammeters CHECK
- ◆ 19. Cabin Temp Controls SET
- ◆ 20. Anti-Ice Systems CHECK & AS REQ'D
- ◆ 21. Electrically-Heated Windshield (if installed) ON
- ◆ 22. Engine Instruments CHECK
- TR. Thrust Reversers CHECK & STOWED
- 23. Fuel Control Governor CHECK
- ◆ 24. Flight Controls CHECK
- ◆ 25. Fuel Panel CHECKED & BALANCED
- ◆ 26. **Cabin Air** **ON**
- ◆ 27. Crew Takeoff Briefing COMPLETE

RUNWAY LINEUP

- ◆ 1. Parking Brake RELEASED
- ◆ 2. Transponder ON
- TR. Thrust Reversers (TR-4000) ARM
- ◆ 3. Pitot Heat ON
- ◆ 4. Lights (Strobe, Recognition & Landing) ON
- ◆ 5. Stall Warning ON
- ◆ 6. Ignition ON
- ◆ 7. Annunciator Panel NORMAL

EFFECTIVITY
ALL

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AFTER TAKEOFF

1. Landing Gear (positive rate) UP
 2. Yaw Damper ENGAGED
 - TR. Thrust Reversers (TR-4000)..... DISARM
 3. Flaps..... UP
 4. Ignition..... OFF
 5. Pressurization.....CHECK
 6. Landing/Taxi Lights..... OFF
 - AP. Autopilot APPR Light (FC-200 autopilot).....OUT
 7. Hydraulic PressureCHECK
 8. Angle-of-Attack Indicators CROSS CHECK
-

CLIMB

10,000 Ft Checks:

1. No Smoking Fasten Seat Belt Sign AS REQ'D
2. Pressurization.....CHECKED

18,000 Ft (or Transition Altitude) Checks:

1. Altimeters SET 29.92" Hg (1013 mb)
2. Recognition Light..... OFF
3. Air Conditioner.....OFF, IF APPLICABLE
4. Oxygen Pressure.....CHECK
5. EMER PRESS Switches (if installed) NORMAL

FL 350 Checks:

1. Air Conditioner..... OFF

FL 410 Checks:

1. *35-001 thru 35-112, except 35-107; 36-001 thru 36-031:*
Crew & Passenger Oxygen Masks DON

CRUISE

1. Pressurization.....CHECK & NORMAL
2. Fuel Management..... AS REQ'D
3. Engine Instruments.....CHECK
4. Cabin Temp Controls SET
5. Other Systems..... MONITOR

DESCENT

1. Windshield Heat AS REQ'D
2. Windshield Aux Defog (if installed) AS REQ'D
3. Cabin Controller.....FIELD ELEVATION
4. Anti-Ice Systems..... AS REQ'D

FL 180 (or Transition Level) Checks:

1. Altimeters..... SET BARO & CROSS CHECK
2. Recognition Light.....ON
3. Pressurization.....CHECK
4. No Smoking Fasten Seat Belt Sign ON
5. Pax Briefing/Cabin Secured COMPLETE

APPROACH

1. Circuit BreakersIN
 2. Hydraulic & Emergency Air PressureCHECK
 3. Landing Data (N1, VREF, VAPP, Distance) COMPUTED & SET
 4. Fuel BALANCED
 5. Approach Setup & Briefing COMPLETE
- TR. Position Indicator Lights (Aeronca).....OUT
- a. Bleed Valve TEST

EFFECTIVITY
ALL

LANDING SPEEDS

SPEED	WEIGHT — 1000 LB									
	10	11	12	13	14	15	15.3	16	17	18.3
VREF & LDG CLIMB	105	110	115	119	123	127	129	131	135	140
APPROACH CLIMB	111	116	121	126	130	134	136	138	142	147

LANDING DISTANCES

	TEMP	°F	0	20	40	60	80	100
		°C	-18	-7	4	16	27	38
	WT							
SEA LEVEL	15,300		2825	2900	2976	3051	3127	3203
	15,000		2791	2864	2936	3009	3082	3155
	14,000		2679	2742	2805	2868	2931	2995
	13,000		2549	2608	2667	2726	2785	2844
	12,000		2422	2479	2536	2594	2651	2709
	11,000		2314	2366	2417	2469	2521	2572
	10,000		2208	2255	2302	2348	2395	2442
2000 FT	15,300		2986	3061	3137	3212	3287	3362
	15,000		2946	3019	3091	3163	3236	3308
	14,000		2814	2877	2939	3002	3065	3128
	13,000		2675	2734	2792	2851	2910	2968
	12,000		2544	2601	2658	2715	2773	2830
	11,000		2424	2476	2527	2578	2630	2681
	10,000		2308	2354	2401	2447	2494	2540
4000 FT	15,300		3112	3190	3269	3348	3426	
	15,000		3067	3143	3219	3294	3370	
	14,000		2919	2984	3050	3116	3181	3247
	13,000		2773	2834	2896	2957	3018	3080
	12,000		2640	2699	2759	2819	2878	2938
	11,000		2510	2564	2617	2671	2724	2778
	10,000		2386	2434	2483	2531	2580	2628

These speeds & distances were determined for dry runway, zero wind, zero runway gradient, anti-ice off, & anti-skid on.

EFFECTIVITY

ALL

BEFORE LANDING

1. Spoilers..... RETRACTED
 2. Flaps..... 8° or 20°
 3. Landing Gear..... DOWN
 4. Landing/Taxi Lights..... AS REQ'D
 5. Anti-Skid ON, LIGHTS OUT
 6. Engine Sync OFF
 - TR. Thrust Reversers (TR-4000)..... ARM
 7. Flaps.....DOWN & INDICATED
 8. Hydraulic PressureCHECK
 9. IgnitionON
 10. Autopilot..... DISENGAGE
 11. Yaw Damper (FC-200 autopilot) OFF DURING FLARE
-

GO AROUND

1. Autopilot..... DISENGAGED
2. Thrust Levers..... AS REQ'D
3. Spoilers..... RETRACTED
4. Flaps.....20°
5. Landing Gear (positive rate) UP
6. Climb at Approach Climb Speed
7. Clear of ObstaclesVREF + 30, FLAPS UP

AFTER LANDING/CLEARING RUNWAY

1. Stall Warning OFF
 2. Ignition OFF
 - TR. Thrust Reverser (TR-4000) DISARM
 3. Cabin Air OFF
 4. Anti-Ice Systems:
 - a. Pitot Heat & Alcohol OFF
 - b. Defog, Windshield, Nacelle,
Stab & Wing Heat AS REQ'D
 5. Lights AS DESIRED
 6. One Thrust Lever (Optional) CUTOFF
 7. Spoilers RETRACT
 8. Flaps UP
 9. Hydraulic Pressure CHECK
 10. Unnecessary Avionics OFF
 11. Transponder STBY or OFF
-

SHUTDOWN

1. Parking Brake/Chocks SET
2. Anti-Ice Systems OFF
3. Emergency Lights (if installed) DISARM
4. Avionics OFF
5. Standby Attitude Gyro CAGE
6. Emergency Battery(ies) OFF
7. Coffee/Oven (if installed) OFF

(Procedure Continued)

- 8. Thrust Levers OFF
- 9. Start-Gen Switches OFF
- 10. Inverters OFF
- 11. Fuel Transfer OFF
- 12. Crossflow Valve CLOSED
- 13. Beacon Light OFF
- 14. Batteries OFF
- 15. Controls Lock INSTALL

**QUICK TURNAROUND
(ONE OR NO ENGINE SHUTDOWN)**

- 1. Cabin Door SECURED
- 2. Air Conditioner OFF
- 3. Aux Heat (if installed) OFF
- 4. Engine START (2 RUNNING)
- 5. Start-Gen Switches GEN
- 6. Voltmeter & Ammeters CHECK
- 7. Battery Charging Bus/
Current Limiters (if required) CHECK
- 8. Starter Disengagement (if required) CHECK
- 9. Circuit Breakers IN
- 10. Avionics SET
- 11. Coffee/Oven (if installed) AS DESIRED
- 12. Anti-Ice Systems AS REQ'D
- 13. Pax Briefing/Cabin Secured COMPLETE
- 14. **No Smoking Fasten Seat Belt Sign** **ON**

EFFECTIVITY
ALL

TAXI.

- 1. Fuel Panel & Quantity.....CHECK
- 2. Takeoff Data (N1, V1, VR, V2 & T.O. Distance).....COMPUTE & BUGS SET
- 3. Nav Equipment..... SET
- 4. Radar..... ON
- 5. Flight ControlsCHECK
- 6. Flight Instruments.....CHECK
- 7. **Spoilers** **RETRACTED, LIGHT OUT**
- 8. **Flaps** **20° or 8°, CHECK INDICATION**
- 9. **Trims (3)**..... **SET/PRI/LIGHT OUT**
- 10. **Pressurization** **SET**
- 11. **Cabin Air** **ON**
- 12. Crew Takeoff Briefing.....COMPLETE

Runway Lineup:

- 1. Parking Brake RELEASED
- 2. Transponder..... ON
- TR. Thrust Reversers (TR-4000)..... ARM
- 3. Pitot Heat..... ON
- 4. Lights (Strobe, Recognition & Landing)..... ON
- 5. Stall Warning ON
- 6. Ignition..... ON
- 7. Annunciator PanelNORMAL

EFFECTIVITY
ALL

CREW NOTES

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<p>EFFECTIVITY ALL</p>

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