

PREFLIGHT
N2018E - Aeronca Champ 7AC
 Use Pilot's Operating Handbook for official
 and complete list

INTERIOR

1. Electrical Master - OFF
2. Fuel – ON (to allow better sumping)
3. Carb Heat – OFF
4. Mags – OFF (full counterclockwise)
5. Throttle – CLOSED
6. Flight Log – Record engine tach hours
7. AROW – Airworthiness, Registration, Operating Limits, Weight / Balance
8. Baggage Weight – Maximum 20 lbs
9. Radios and Intercom – CHECK (then as desired)
10. Lights and other electrical – OFF
11. Fuel Quantity – CHECK
12. Altimeter – SET (AWOS or field elevation)
13. Compass – CHECK
14. Other Items – Headsets, Charts, Batteries, Tie Downs

EXTERIOR

1. FUEL
 - a. Fuel Tank(s) – CHECK QUANTITY (touch or dip stick)
 - b. Filler Cap(s) – SECURE
2. ENGINE
 - a. Engine Oil – CHECK (3 quarts minimum)
 - b. Fuel Sump – DRAIN (inspect for water or debris)
 - c. Engine Compartment – INSPECT for leaks, chafing, etc.
 - d. Cowl – SECURE both left and right sides
3. WALK AROUND
 - a. Oil or Fuel Puddles – CHECK
 - b. Attachment Points – CHECK
 - c. Hinges – CHECK
 - d. Covering and Surfaces – CHECK including underneath
 - e. Freedom of Ailerons, Elevator, and Rudder – CHECK
 - f. Tail Wires – CHECK proper tension
 - g. Tailwheel – CHECK including no excess wobble
 - h. Trim – CHECK including control tension
 - i. Tires – CHECK inflation 15-20 lbs, strut, brake condition
 - j. Propeller – CHECK for general condition and nicks
 - k. Induction Air Intake – CLEAR
 - l. Air Filter – In good condition
 - m. Exhaust – Both present and secure
 - n. Pitot / Static – CHECK
 - o. Windshield – CLEAN

AIRPORTS

Westfield (I72)	122.900	932'
Rwy 18/36 is 3000 x 100 turf		120.725 TYQ
Executive (TYQ)	123.050	922'
Rwy 18 / 36 is 5500 x 100		120.725 AWOS
Sheridan (5I4)	123.075	936'
Rwy 05 / 23 is 3760 x 50		120.725 TYQ
Rwy 09 / 27 is 3387 x 88 turf		
Noblesville (I80)	122.900	821'
Rwy 09 RH/27 is 3580 x 100 turf		119.375 UMP
Glendale (8I3)	122.900	850'
Rwy 18/36 is 2048 x 110 turf		128.675 OKK
Metro (UMP)	123.000	811'
Rwy 15 / 33 is 4004 x 100		119.375 AWOS
Kokomo (OKK)	123.000	830'
Rwy 05 / 23 is 6001 x 150		128.675 AWOS
Rwy 14 / 32 is 4002 x 150		
Frankfort (FKR)	123.000	860'
Rwy 09 / 27 is 5000 x 75		124.325 AWOS
Rwy 04 / 22 is 32527 x 70		

AIRSPEEDS

V _s stall	38 MPH
V _x best angle	50 MPH
V _y best rate	55 MPH
Best Glide	60 MPH
V _a maneuvering speed	85 MPH
V _{ne} never exceed	135 MPH
Maximum Crosswind	12 MPH

SPECIFICATIONS

Engine Continental C-85	85 HP at 2575 RPM
Fuel Consumption Cruise	5.4 GPH
Main Tank	13.0
Gallons	
Oil Capacity	4 Quarts
Gross Weight	1320.0 lbs (check)
Empty Weight	889.5 lbs (check)
Useful Load	430.5 lbs (check)
Rate of Climb (Max)	620 fpm
(estimated)	
Take Off (2000 ft alt, 95 deg F, no wind, turf)	
Ground Roll	565 ft (estimated)
Clear 50 ft	1350 ft (estimated)
Landing (2000 ft altitude, no wind, turf)	
Ground Roll	275 ft (with good brakes)
Clear 50 ft	1150 ft (estimated)
NOTE – Land before main fuel tank bobber has less than two inches showing.	

STARTING
N2018E - Aeronca Champ 7AC

BEFORE STARTING

1. Preflight Inspection – COMPLETE
2. Winds and Weather – CHECKED
3. Seats Belts – SECURE
4. Passengers – BRIEF:
(a) seat belts, (b) doors and windows,
(c) headset and intercom, (d) point out
all other aircraft
5. Loose items – STORED including
unused seat belts
6. Tail – TIED DOWN as required
7. Prop Area – CLEAR including prop
blast area behind

STARTING ENGINE

COLD START (preheat below 45 deg)

1. Mags – OFF
2. Throttle – CLOSED
3. Fuel – ON
4. Carb Heat – COLD
5. Prime – Pull prop through five blades
6. Throttle – IDLE (trying to achieve 600
RPM)
7. Mags – ON BOTH (three “clicks”)
8. Brakes – SET
9. Battery Switch – ON
10. Starter Button – PUSH (not more than
6 seconds)

HOT START (engine warm to the touch)

1. Fuel – ON
2. Carb Heat – COLD
3. Throttle – IDLE (trying to achieve 600
RPM)
4. Mags – ON BOTH (three “clicks”)
5. Brakes – SET
6. Battery Switch – ON
7. Starter Button – PUSH (not more than
6 seconds)

FLOODED ENGINE

1. Fuel – ON
2. Carb Heat – COLD
3. Throttle – FULL OPEN
4. Mags – ON BOTH (three “clicks”)
5. Brakes – SET (really good)
6. Battery Switch – ON
7. Starter Button – PUSH (not more than
6 seconds)
8. Throttle – REDUCE TO IDLE as engine
clears

AFTER STARTING

1. Oil Pressure – CHECK
2. Warm-Up – 1000 RPM
3. Time – Note Start Time
4. Radios and Intercom – ON
5. Headsets – ON
6. Other electrical devices – ON

BEFORE TAXI

1. Seat Belts – SECURE
2. Door – CLOSED
3. Radio – Listen and make appropriate
calls

TAXI

1. Brakes – RELEASE and CHECK
2. Controls During Taxi:
 - a) Headwind – Climb and bank into
headwind
 - b) Tailwind – Dive and bank away from
tailwind

EMERGENCY PROCEDURES

ENGINE FAILURE

1. Airspeed – PITCH for best glide 60
MPH (wings level)
2. Trim – SET slide all the way back which
is full nose up
3. Landing Site – PICK and go directly to
approach end
4. Radio – Call MAYDAY (use 121.5 if
able)

RESTART, ROUGH, or LOSS OF POWER

1. Fuel – Confirm ON and quantity
2. Aux Fuel – ON (if available)
3. Prime – IN and LOCKED
4. Mags – Try LEFT and RIGHT then
BOTH
5. Carb Heat – CHANGE IT ON or OFF
6. Throttle – CHANGE POSITION

LANDING

1. Spiral Down – AS APPROPRIATE
2. Slip – AS APPROPRIATE
3. Airspeed – Best glide 60 MPH (wings
level)
4. Seat Belts – SECURE make them extra
tight
5. Fuel – OFF
6. Aux Fuel – OFF (if available)
7. Throttle – CLOSED
8. Mags – OFF
9. Electrical Master – OFF
10. Doors – UNLATCHED
11. Touchdown – Normal 3-point landing
with full stall
12. Exit – IMMEDIATELY

DEPARTING
N2018E - Aeronca Champ 7AC

RUN UP

1. Park – INTO THE WIND (if practical to do so)
2. Brakes – HOLD
3. Throttle – 1700 RPM
4. Magnetos – CHECK (100 max drop, 50 max difference)
5. Carb Heat – CHECK (noticeable drop 25 to 150 RPM)
6. Oil Pressure – CHECK (green arc 10 to 48 PSI)
7. Oil Temperature – CHECK (green arc 90 to 220 °F)
8. Throttle – IDLE then as desired

BEFORE TAKEOFF

1. Controls – FREE and CORRECT
2. Doors and Windows – SECURE
3. Seat Belts – SECURE
4. Altimeter and Heading – CHECK
5. Radio, Intercom, Navigation Devices – CHECK
6. Carb Heat – OFF
7. Trim – NEUTRAL
8. Radio – Make appropriate calls including direction of flight
9. Time – Note departure time for navigation purposes

TAKEOFF

1. Carb Heat – OFF
2. Trim – NEUTRAL
3. Stick Position – AS APPROPRIATE
4. Throttle – FULL OPEN
5. Engine RPM – Above 2300 RPM
6. Oil Pressure and Temperature – CHECK
7. Climb – V_x 50 MPH or V_y 55 MPH (sea level)

CRUISE

1. Throttle – 2200 to 2450 RPM
2. Airspeed – 80 to 95 MPH typical in level flight
3. Oil Pressure and Temperature – MONITOR
4. Fuel – MONITOR
5. Carb Heat – ON if engine is below 2000 RP
- 6.

BEFORE LANDING

1. Seat Belts – SECURE
2. Carb Heat – ON
3. Trim – AS DESIRED
4. Power – AS REQUIRED

AFTER LANDING

1. Carb Heat – OFF
2. Trim – NEUTRAL
3. Fuel – Refuel as necessary

SHUTDOWN

1. Carb Heat – OFF
2. Throttle – IDLE
3. Radios and Intercom – OFF
4. Lights and other electrical – OFF
5. Electrical Master – OFF
6. Fuel – OFF
7. Mags – OFF
8. Time – Note stop time
9. Flight Log – Record engine tach hours and flight time
10. Aircraft – SECURED from wind and weather
11. Personal Items – CHECK got everything