

N7480F

Check List

This checklist is designed to be used as a "Quick Reference Guide" while performing the preflight inspection. Detailed information is found in the Owners Manual and Handbook of Maintenance Instruction. Thoroughly familiarize yourself with the manual before utilizing this checklist.

COCKPIT

- Battery switch "ON"
- Check fuel quantity.
- Battery switch "OFF"
- Magneto switch "OFF"
- All other switches "OFF"
- Fuel valve "ON"
- Mixture "IDLE CUT OFF"

ROTOCRAFT EXTERIOR

- Remove all covers, locking devices, and tie downs.
- Check canopy.
- Check pitot tube.
- Check beacon, and front crossbeam.
- Check induction system and fairing.
- Check landing gear, skid tube and skid shoe.
- Check front and rear oleo dampers.
- Check position light.
- Check door.
- Check canopy slat.
- Check engine oil.
- Check auxiliary fuel tank and drain sump.
- Check engine sump plug.
- Check engine and components, exhaust and intake tubes.
- Check alternator belt and tension.
- Check battery.
- Check lower coupling shaft (fore and aft movement).
- Check aft crossbeam and cluster fitting.
- Check landing light.
- Check main rotor transmission fluid level.
- Check main rotor blades and rotor head.
- Check main rotor dampers.
- Check main rotor control rods.
- Check tail rotor shaft, set alignment marks.
- Check tailboom, supports, and fittings.
- Check beacon light.

Checklist Page 2

- Check tail rotor shaft alignment.
- Check tail rotor assembly.
- Check tail rotor transmission oil level.
- Check tail rotor push-pull rods.
- Check tail skid.
- Check horizontal stabilizer, vertical fin, and tail light.
- Check control cable.
- Check belt drive system (idler pulley).
- Check cluster fitting.
- Check main fuel tank and drain sump.
- Check engine and components, exhaust and intake tubes.
- Check fuel low point drain.
- Check landing gear, skid tube and skid shoe.
- Check front and rear oleo dampers.
- Check position light.
- Check door.
- Check canopy slat.
- Set battery, landing, position, and beacon switches "ON".
- Check lights.
- Engage rotor clutch; check actuator cable and travel stop.
- Disengage rotor clutch.
- All switches "OFF".

ROTOCRAFT INTERIOR

- Check and adjust anti-torque pedals.
- Check seat belts.
- Release control frictions and check control movement.
- Set collective full down; Friction on.
- Set altimeter.
- Check all switches "OFF".
- Check all circuit breakers "IN".
- Check throttle "CLOSED".
- Check mixture "IDLE CUT OFF".
- Set battery switch "ON".
- Check fuel quantity.
- Check fuel low warning light "OUT".
- Check transmission warning light "ON".
- Check clutch control switch "RELEASE".
- Check clutch warning light "ON".

ENGINE STARTING PROCEDURE

- Mixture "IDLE CUT OFF".
- Fuel valve "ON".
- Throttle friction released; throttle open approximately 1/2 inch.
- Fuel Boost pump "ON", check pressure.
- Mixture "FULL-RICH", 2.5 to 3 seconds. Return to "IDLE CUT OFF".
- Fuel boost pump "OFF".
- Ignition switch on "BOTH".
- Close throttle, then open approximately 1/8 inch.
- Clear Area.
- Engage starter.
- When engine starts, mixture "FULL-RICH".
- Set engine rpm at approximately 1400.
 - CAUTION: Avoid engine speed over 1600 rpm with rotors disengaged.
- Check engine oil pressure 25 psi minimum.
 - CAUTION: Shut down engine if minimum oil pressure not reached in 30 seconds.
- Alternator Switch "ON".
- Beacon "ON".
- Radios "ON".

ROTOR ENGAGEMENT

- Check collective full down and locked.
- Anti-torque pedals in neutral position.
- Set trim to center cyclic.
- Set engine to 1500 rpm.
- Clear Area.
- Set clutch switch to "ENGAGE"; regulate engagement rate by switching from "ENGAGE" to "HOLD", back to "ENGAGE" as required.
- Check clutch release light out.

ENGINE WARMUP AND GROUND CHECK

- Set engine at 2500 rpm.
- Check engine oil pressure and temperature (green arc).
- Check transmission warning light "OUT".
- Check press-to-test fuel warning light.
- Check ammeter, alternator switch "OFF" then "ON".
- Gently move cyclic, observe rotor tip path.
- Raise collective (14" MP at 2500 rpm).
- Perform Magneto check, (maximum 125 rpm drop in 5 sec).
- Stabilize engine at 2500 rpm.
- Position collective full down.
- Close throttle, observe engine and rotor needles separation.
- Stabilize engine at 2500 rpm.
- Boost pump "ON".

TAKEOFF

- Cylinder head temperature (Green arc).
- Engine oil pressure (Green arc).
- Engine oil temperature (Green arc).
- Transmission warning light "OUT".
- Fuel warning light "OUT".
- Low Voltage warning light "OUT".
- Circuit breakers and switches set.
- Fuel valve "ON".
- Mixture "FULL-RICH".
- Boost pump "ON".
- Fuel warning light "OUT".
- Set control trim and friction as desired.
- Clear area.

ENGINE COOLING AND SHUTDOWN

- Stabilize temperatures at 3000 rpm (Two minutes minimum).
- Set rpm at 2000 until CHT stabilizes at lowest reading (One minute minimum).
- Cyclic trim: neutral.
- Tighten control frictions.
- Collective friction "ON".
- Set engine at 1400 rpm.
- Set clutch control switch to "RELEASE".
- Wait for rotor rpm to drop below 100 rpm.
- Radios "OFF".
- Mixture "IDLE CUT OFF".
- Ignition switch "OFF".
- Alternator switch "OFF".
- Battery switch "OFF".
- All switches "OFF".
- Fuel valve "CLOSED".