

Starting checklist N7740C Pratt & Whitney R-985 Stearman Installation

- Ignition off
- Mixture Full lean
- Propeller low RPM
- Carb Heat cold
- Throttle closed
 - Check, note Manifold Pressure
 - Motor with starter to check for hydraulicking
- Fuel on
- Mixture Rich
- Primer cold engine, 4 to 8 strokes of primer
- Throttle open ¼ inch at quadrant
- Ignition off
- Starter engage
- Ignition on after two blades
- Engine speed 500-600 RPM
- Propeller High RPM when oil pressure moves
- Magnetos safety check
- Warm up 1000 RPM to 40 deg. C., 104 deg F. 800 – 900 rpm

Magneto Check

- Manifold pressure 20 inches min, about 1600-1700 RPM
- Limits 50-75 RPM, max. drop 100 RPM, max. diff. 40 RPM

Prop Check

Instrument Check

- CHT 232 deg. C (450 F) during ground operation
- Oil pressure Idle, 10 psi min.
1400 – 1900 50 psi min.
1900 – 2000 55 psi min.
2000 rpm 60 – 90 psi
takeoff rpm 70 – 90 psi
- Oil temperature Minimum for runup and flight: 40 deg. C, 104 deg F.
Maximum “ “ 93 deg. C, 199 deg F.

Mixture Check

- Move to full lean, note rpm change. Momentary rise of 20 rpm before drop-off is correct. No rise = too lean, greater rise = too rich.

See reverse for Shutdown procedure.

Shutdown

- Idle until CHT < 204 deg. C (400 F)
- Propeller throttle increase rpm to 1500, then prop to coarse pitch, low RPM
- Throttle close
- Mixture full lean
- Ignition off
- Fuel off