

PILOT'S CHECKLIST

PT-19, PT-19A, PT-19B Airplanes

Ranger L-440-1 Engine

BEFORE STARTING ENGINE

1. Release flight control locks and check freedom of operation of stick and rudder pedals.
2. Check Forms I and IA.
3. Parking Brake "ON."
4. Fuel Selector "ON."
5. Carburetor Air Heater "OFF."
6. Mixture "FULL RICH."
7. Pump fuel to carburetor with wobble pump to about 2 pounds indicated pressure. DO NOT EXCEED 3 POUNDS.
8. COLD WEATHER—Use 2 or 3 shots of primer and about 4 sharp strokes of throttle. (In extremely cold weather, a rapid pumping of the throttle near closed position may be required during the first half minute or so after engine starts.)
9. Throttle $\frac{1}{10}$ open.
10. Master Switch "ON" (PT-19B only).
11. Switch LEFT magneto "ON."

DURING WARM-UP

1. Start engine with direct cranking hand starter.
2. Switch BOTH MAGNETOS "ON."
3. Warm up engine at 800 or 900 RPM.
4. Minimum wide-open ground RPM—1900.
5. Check each magneto momentarily at a throttle setting of not more than 1900 RPM; loss of more than 75 RPM or rough running should be investigated.

BEFORE TAKE-OFF

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1. Release parking brake.
 2. Check flaps for "UP" position.
 3. Carburetor Air Heat "OFF."
 4. Use full throttle and full rich mixture for take-off.

DURING FLIGHT

1. Ease throttle back to 2150 RPM during climb after take-off. Maintain about 80 MPH indicated airspeed.
2. Use carburetor air heat as required.
3. Cruising RPM—1950 to 2150.
4. Cruising Oil Pressure—40 to 60 lbs. per sq. in.
5. Cruising Oil Temperature—60° to 80°C. 93°C. Maximum.
6. Fuel Pressure—3 to 4 lbs. per sq. in.
7. Mixture Control—either full rich or leaned for smooth operation.

BEFORE LANDING

1. Adjust flaps to desired degree of down position. DO NOT EXCEED 95 MPH indicated airspeed with flaps down.
2. Mixture "FULL RICH."

AFTER LANDING

1. Flaps to "UP" position.
2. Engage Parking Brake.
3. Use Oil Dilution System as required. (PT-19B only.)
4. Fuel Selector "OFF." (Unnecessary if to be flown again soon.)
5. Mixture "FULL LEAN" for idle cut-off.
6. Ignition Switch "OFF."
7. Engage flight control lock.