GROUND CHECK

CAUTION

Alternate air is unfiltered. Use of alternate air during ground or flight operations, when dust or other contaminants are present, may result in engine damage from particle ingestion.

Parking brake .....set
Prop control .....full INCREASE
Throttle .....2000 RPM
Magnetos .....max. drop 150 RPM
- max. diff. 50 RPM
Gyro suction .....4.8 to 5.2 in. Hg.
Stand-by vacuum pump .....check

NOTE

If flight into icing conditions (in visible moisture below +5°C) is anticipated, conduct a preflight check of the icing systems per Supplement No. 10 - Ice Protection System.

Ice protection equipment .....CHECK AS REQUIRED
Volt/ammeter .....check
Oil temp. .....check
Oil pressure .....check
Propeller .....exercise - then
full INCREASE
Throttle .....retard
Air conditioner .....check
Annunciator panel .....press-to-test
Manifold pressure line .....drain

BEFORE TAKEOFF

Battery switch .....ON
Alternator(s) .....ON
Pressurization controls .....set
Flight instruments .....check
Fuel selector .....proper tank

Aux. fuel pump ..... OFF
Engine gauges ..... check
Induction air .....PRIMARY

NOTE

If flight into icing conditions (in visible moisture below +5°C) is anticipated, conduct a preflight check of the icing systems per Supplement No. 10 - Ice Protection System.

NOTE

Prolonged operation of the stall warning vane heater in temperatures greater than 5ºC will reduce the operational life of the stall warning vane.

Pitot heat ..... AS REQUIRED
Stall warning heat ..... AS REQUIRED
Wshld heat ..... AS REQUIRED
Prop heat ..... AS REQUIRED
Seat backs.....erect
Seats .....adjusted & locked in position
Mixture.....full RICH
Prop control.....full INCREASE
Belts/harness .....fastened/adjusted
Empty seats .....seat belts snugly fastened
Flaps..... set
Trim..... set
Controls.....free
Door .....latched
Air conditioner..... OFF
Parking brake .....released

TAKEOFF

NORMAL

Flaps..... set
Trim..... set
Throttle..... full power

WARNING

If flight into icing conditions (visible moisture below +5°C) is anticipated or encountered during climb, cruise or descent, activate the aircraft ice protection system including the pitot heat, as described in supplement No. 10 - Ice Protection System.

Accelerate to 77 KIAS
Control wheel.....back pressure to rotate to climb attitude

SHORT OR SOFT FIELD, OBSTACLE CLEARANCE

Flaps..... 20°
Trim..... set
Throttle..... full power prior to brake release

NOTE

Takeoffs are normally made with full throttle. However, under some off standard conditions manifold pressure and/or fuel flow indications can exceed their indicated limits at full throttle. Limit manifold pressure to 38 in. Hg maximum. (See Section 7)

Accelerate to 70 KIAS.
Control wheel.....back pressure to rotate to climb attitude
After breaking ground, accelerate to 74 KIAS.
Gear.....UP
Accelerate to climb speed
Flaps.....UP

TAKEOFF CLIMB

NOTE

Power should be reduced to cruise climb setting after all obstacles are cleared.

Mixture.....full RICH
Prop speed..... 2600 RPM
Manifold pressure ..... full power