

Before START

External CheckCOMPLETE
 Pitot cover / control lockREMOVED
 Headsets PLUGGED IN
 Parking Brake ON
 Seats..... Adjusted
 Seat Belts/HarnessesCHECK/SECURE
 Elevator Trim.....CHECK
 Flying ControlsCHECK
 Master Switch ON
 Beacon ON
 Fuel Selector CHECK ON (by left foot)
 Fuel ContentsCHECK

Starting Engine

Carb HeatCHECK/OFF
 Mixture CHECK/RICH
 Throttle FrictionCHECK
 Oil Temperature.....CHECK
 EnginePRIME
 Throttle SET 1/4 OPEN
 Propeller Area CLEAR
 Magneto/Starter Switch ON/START

----- Engine Starts -----

Oil PressureCHECK
 Throttle SET 1,200 RPM
 Ammeter/VoltmeterCHECK
 SuctionCHECK
 Engine running smoothly ...SET MAX 1,500 RPM

After Engine START

Avionics Master Switch ON
 Intercom SET/CHECK
 MagnetosCHECK
 Radio/Nav/Transponder CHECK/SET

Taxying

BrakesCheck
 Flight InstrumentsCheck

Power Check

Oil Temperature.....Above Min
 Throttle1700 RPM
 Carb HeatCHECK
 Magnetos (max drop 125, Max diff 50) ...CHECK
 Oil Pressure/Fuel Pressure..... Green Arc
 Ammeter/Voltmeter Green Arc
 Suction Green Arc
 ThrottleClose - Idle 5-700
 RPM.....Reset 1,500 RPM

Pre- Takeoff

Trimmer SET
 Mixture..... RICH
 Carb Heat OFF
 Magnetos ON BOTH
 Fuel Selector..... ON
 Fuel Contents CHECK
 Flaps SET 10 degrees for short rwy
 Flight Instruments* CHECK (DI Sync, Alt set)
 Seat Belts/Harnesses.....SECURE
 Doors..... CLOSED & LATCHED
 Flying Controls..... FREE
 TransponderALT + CODE SET
 Strobes, Landing Light & Anticol light ON
 Pitot HeatON if req
 Captains BriefCOMPLETE

Runway

DIALIGNED
 Min RPM at Full Throttle 2350
Rotation Speed **Normal 55 kts**
Climb **65 kts (75 C172)**

After Takeoff / 1000ft

Flaps UP & OFF (150 AGL/70kt)
 Landing Light ON

Final Approach

Flaps20° enough unless v short
V Approach Full Flap **65 kts**
V Approach Flapless **70 kts**
Best Glide **60**

After Landing

Trimmer Neutral
 FlapsUp
 Carb Heat Off
 Land Light, Strobes, Pitot Heat Off
 Transponder Standby

Shutdown

Park Break On (Off if at hangar)
 Throttle1200 RPM
 MagnetosCheck
 Radio Off
 Throttle Closed
 Mixture Idle Cut Off
 Magnetos / Starter Off & Remove Key
 Avionics master Off
 Battery Master Off
 Control Lock Install