

DA40 with G1000

Normal Procedures

(incl high altitude)

PRE-START

Documents/Preflight Inspection- CHECK
Weight/Balance/Dens. Alt - CHECK
Baggage - STOWED
Rudder Pedals - ADJUSTED/LOCKED
Passenger Briefing - PERFORMED
Rear Door - CLOSED and LOCKED
Harness - FASTENED AND ADJUSTED
Parking Brake - SET
Flight Controls - FREE & CORRECT
Fuel Valve - EMPTIEST TANK
Trim Wheel - T/O
Throttle Friction- Adjusted
Mixture - IDLE CUT-OFF
Prop Control - FULL FORWARD
Throttle - IDLE POSITION
Cabin Heat - OFF
Circuit Breakers - CHECK IN
Alternate Air - CLOSED
Alternate Static Valve - CLOSED
Avionics Master - OFF
Ess. Bus Switch - OFF
ALT/BAT Master Switch - ON
Canopy - Position 1 or 2
Strobes - ON

STARTING ENGINE

(engage starter 10 sec MAX; 20 Sec to cool)

Cold Start

Throttle - FULL FORWARD
Propeller - FULL FORWARD
Mixture - IDLE CUT-OFF
Brakes - HOLD
Propeller Area - CLEAR
Fuel Pump - ON
Mixture - FULL RICH
(3 - 5 Sec.) IDLE CUT-OFF
Fuel Pump - OFF
Throttle - SET TO ½ INCH
Ignition - START POSITION
Mixture - ADVANCE

Warm Start

Propeller - FULL FORWARD
Mixture - IDLE CUT-OFF
Brakes - HOLD

Propeller Area - CLEAR
Fuel Pump - ON
Mixture - IDLE CUT-OFF
Fuel Pump- OFF
Throttle - ½ inch OPEN
Ignition - START POSITION
Mixture - ADVANCE

Upon Engine Start

Throttle - min 1000 PRM
Oil Pressure - CHECK GREEN
Ammeter - CHECK GREEN
Alternator- ON
Oil Pressure - GREEN IN 15 SEC.
If not shutdown
Alerts lower right PFD - CHECK CLEAR
Engine Gauges - GREEN
Mixture - LEAN 1"+
Fuel Computer - UPDATE

BEFORE TAXIING

Avionics Master Switch - ON
PFD- No Autopilot Annunciation
Autopilot Disconnect Tone- Note
Flaps- UP-T/O-LDG-T/O (check)
Ammeter- Check
Aircraft Lighting - AS REQUIRED
ATIS - COPY
Flight Instruments Altimeters - SET
Radios/GPS - SET
Engine Gauges - CHECK GREEN
Annunciator Panel - CHECK CLEAR
Fuel Valve - SWITCH TANKS To FULLEST
Clearance -- OBTAIN
Parking Brake - RELEASE

TAXIING

Brakes - Check
Flight Instruments - TAXI CHECK
TRAFFIC/MUTE annunciator- press twice

RUN UP

Parking Brake - SET
Safety Harnesses- Fastened
Rear Door- Check closed/locked
Flight Controls - FREE/CORRECT
Trim - SET FOR T/O
Fuel Valve - CHECK fullest tank
Circuit Breakers- IN
Engine Instruments- Green
Fuel Quantity - CHECK
Fuel Pressure- No MSG
Flight Instruments - SET
Electric Pump- ON
Propeller - FULL FORWARD

Mixture - Lean above 5000' DA
Throttle - 2000 RPM
Check Ignition
LEFT/BOTH/RIGHT/BOTH
MAX DROP 175 RPM
MAX DIFF 50 RPM
Propeller - CYCLE 3 TIMES
Max Drop 500 RPM
Alternator Load - CHECK (1/day)
Mixture - MAX POWER + 1"
Engine Gauges - CHECK GREEN
Throttle - 1500 RPM
Alternate Air - TEST
Throttle - IDLE TEST
Throttle - 1000 RPM
Alerts lower right PFD - CHECK CLEAR

BEFORE TAKE - OFF

Flaps- T/O
Canopies - F LOCK, R LOCK, LIGHT
Alerts lower right PFD - CHECK CLEAR
Altimeter- check w/ elevation
Landing Light - ON
Strobes - ON
Heading- Check aligned with runway
Time- note

TAKE-OFF

Throttle - FULL POWER
(min 2660 RPM)
Engine Temp/Pressure - CHECK
Rotate - 59 kts
Climb Speed - 66 Kts (60 solo)

AFTER TAKE-OFF (500' AGL)

Flaps - UP
Climb Speed -- 73 Kts (68 solo)

Climb Check (1000' AGL)

Fuel Pump - OFF
Landing Light - OFF
RPM- as required
Throttle- as required
Mixture- Lean as necessary
Engine Instruments- in green
Airspeed- 80 KIAS

CRUISE

Throttle - SET AS DESIRED (22")
Propeller - 1800-2700 RPM (MT)
Mixture - LEAN (as required)
Fuel Valve - FULLEST TANK
Annunciator Panel - CHECK CLEAR

In Range Check

Mixture- Adjust
Electrical Pump- ON at high altitude
ATIS- Obtain
Avionics- Set
Approach Brief- Complete
Lights- ON

BEFORE LANDING CHECK

Fuel Valve - FULLEST TANK
Fuel Pump - ON
Safety Harness- Fastened
Airspeed- Reduce to flap speed
Flaps- T/O (if desired)
Trim- As Required
Landing Light- ON

FINAL APPROACH

Mixture - RICH (below 5000' DA)
RPM- High RPM
Flaps- LDG
Approach Speed- 71/67/63/58

GO-AROUND

Throttle - FULL
GA Button- Press; verify GA/GA in PFD
Flaps - T/O
Airspeed - 66 (60 solo)
Altitude Pre-select- Set
GPS- Set as desired

CLEAR OF RUNWAY

Throttle - 1000 RPM
Flaps - UP
Landing Light - OFF
Fuel Pump - OFF
Pitot Heat- OFF
Mixture- Lean if necessary

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