

## STARTING ENGINE

- METEO / NOTAM / DABS
- Mass & Balance
- Fuel / Oil / Caps
- Cabin / Pax / Baggage
- Seatbelts
- Aft doors unlocked
- Departure Briefing

• Fuel shut-off valve	On
• Circuit breakers	In
• Controls	Full travel free → Frictions On
• Throttle	Full travel free / collective down
• Governor / HYD	On
• Avionics / All switches	Off
• Clutch	Disengaged
• Rotor brake & Map light	Off

## STARTING ENGINE

- Rotorblades: level

• Master battery / Strobe light	On
• COM on / Frq. / Vol. check	Headset On, 1 ear uncovered
• All controls	Neutral
• Area (left + right)	Clear
• <b>Throttle</b>	<b>Closed</b>
• Mixture	Rich
• Ignition	Prime cold 10sec, warm 5sec, then both
• Mixture	Lean
• Starter	Engage
• Engine firing	Mixture slowly rich
• Mixture guard	Installed
• Starter-On light	Out
• Set idle speed	55% / Oil pressure >25 psi
• Clutch / Alternator	On / Alt light Off
• Blades turning	Less than 5 sec
• Wait for clutch light: Out	Verify clutch CB in
• Warm up	65% RPM
• Settings	Flarm/COM/NAV/TX/ALT/Gyros

## ENGINE RUN UP

• T's & P's warnings/cautions	Green, No warnings/cautions
• Mag drop @ 75% RPM	Max 7% in 2 sec
• Sprag clutch check @ 75%	Needles split / idle ok
• Doors (fwd&aft) / seatbelts	Closed / On
• Frictions	Off
• HYD	Checked / On
• Increase RPM manually	100-102%
• Low RPM Horn & Light	Checked @ 97%

## SHUTDOWN

• Coll. down, cyclic / pedals	Neutral
• Reduce RPM for cooling	65 % (CHT drop, 3':30")
• Frictions	On
• Landing light / NAV lights	Off
• Throttle	Closed
• Clutch Switch	Disengage, Check light On
• Wait 30 sec	Pull idle cut-off
• Wait 1 min	Apply rotor brake if required
• Avionics / All switches	121.50 checked / Off

Immatriculation: \_\_\_\_\_

Empty weight: \_\_\_\_\_

Max TOM \_\_\_\_\_

LIMIT MANIFOLD PRESSURE - IN. HG								
MAXIMUM CONTINUOUS POWER								
PRESS	OAT - °C							
ALT-FT	-30	-20	-10	0	10	20	30	40
SL	21.5	21.8	22.1	22.4	22.6	22.9	23.1	23.3
2000	20.9	21.2	21.5	21.8	22.1	22.3	22.5	22.8
4000	20.4	20.7	21.0	21.3	21.5	21.8	22.0	22.2
6000	19.9	20.2	20.5	20.8	21.0	21.3	21.5	21.7
8000	19.5	19.8	20.1	20.3	20.6	20.8	21.0	21.3
10000	19.1	19.4	19.6	19.9	<b>FULL THROTTLE</b>			
12000								

FOR MAX TAKEOFF POWER (5 MIN), ADD 2.8 IN.

NEVER EXCEED SPEED - KIAS								
2200 LB TOGW & BELOW								
PRESS	OAT - °C							
ALT-FT	-30	-20	-10	0	10	20	30	40
SL	130							
2000								
4000					126	122	118	114
6000			126	122	117	113	108	103
8000	126	122	117	112	107	101	96	91
10000	117	112	106	101	95	90	85	
12000	107	101	95	89	<b>NO FLIGHT</b>			
14000	95	89						

OVER 2200 LB TOGW, SUBTRACT 10 KIAS  
FOR AUTOROTATION, SUBTRACT 30 KIAS

OUT OF GROUND EFFECT  
TAKEOFF POWER OR FULL THROTTLE  
ZERO WIND

