

BEFORE STARTING ENGINE

Seat belts	<u>Fastened</u>
Fuel shut-off valve	<u>On</u>
Cyclic/collective friction	<u>Off</u>
Cyclic, collective, pedals	<u>Full travel free</u>
Throttle	<u>Full travel free</u>
Collective	<u>Full down, friction on</u>
Cyclic neutral	<u>Friction on</u>
Redals	<u>Neutral</u>
Trim, landing light switches	<u>Off</u>
HYD & governor switches	<u>On</u>
Circuit breakers	<u>In</u>
Carb heat	<u>Off</u>
Mixture	<u>Full rich</u>
Mixture guard	<u>Installed</u>
Clutch	<u>Disengaged</u>
Altimeter	<u>Set</u>
Rotor brake	<u>Disengaged</u>

STARTING ENGINE AND RUN-UP

Throttle twists for priming	<u>As required</u>
Throttle	<u>Closed</u>
Master switch	<u>On</u>
Area	<u>Clear</u>
Strobe light	<u>On</u>
Ignition switch	<u>Start, then Both</u>
Starter-On light	<u>Out</u>
Set engine RPM	<u>50 to 60 %</u>
Clutch switch	<u>Engaged</u>
Blades turning	<u>Less than 5 seconds</u>
Alternator switch	<u>On</u>
Oil pressure in 30 sec	<u>25 PSI minimum</u>
Avionics, headsets	<u>On</u>
Wait for clutch light	<u>Out</u>
Warm-up RPM	<u>60 to 70%</u>
Engine gages	<u>Green</u>
Mag drop at 75% RPM	<u>7% max in 2 sec</u>
Carb heat check	<u>CAT rise/drop</u>
Sprag clutch check	<u>Needles split</u>
Doors	<u>Closed and latched</u>
Limit MAP chart	<u>Check</u>
Cyclic/collective friction	<u>Off</u>
Cyclic trim or hyd system	<u>Check</u>
Governor On	<u>RPM 101 - 102%</u>
Warning lights	<u>Out</u>
Lift collective, reduce RPM	<u>Horn/light at 97%</u>
Area	<u>Clear</u>

SHUT DOWN

Coll down, RPM 60-70%	<u>Friction on</u>
Cyclic and pedals neutral	<u>Friction on</u>
Trim switch (if installed)	<u>Off</u>
CHT drop	<u>Throttle closed</u>
Clutch switch	<u>Disengage</u>
Wait 30 seconds	<u>Pull idle cut-off</u>
Mixture guard	<u>Back on mixture</u>
Wait 30 seconds	<u>Apply rotor brake</u>
Clutch light off	<u>Ignition & master switch off</u>

MINUTES - 104 Kt (120 MPH) Average Ground Speed - Sectional Chart Only (WAC x 2, TAC + 2)

R44 OPERATING LIMITATIONS AND PILOT'S CHECKLIST

NEVER EXCEED SPEED - KIAS

2200 LB TOGW & BELOW								
PRESS ALT-FT	OAT - °C							
	-20	-10	0	10	20	30	40	
SL								
2000	130						127	123
4000				126	122	118	114	
6000			126	122	117	113	108	
8000	122	117	112	107	101	96	91	
10000	112	106	101	95	90	85		
12000	101	95	89	NO FLIGHT				
14000	89	NO FLIGHT						

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

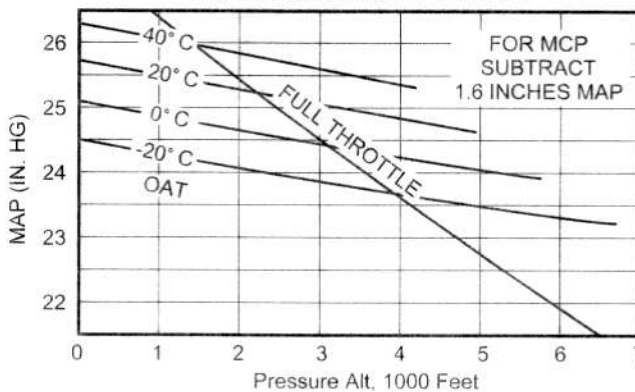
NOTE: REDUCE POWER-ON V_{ne} 10 KIAS WITH FIXED FLOATS

LIMIT MANIFOLD PRESSURE - IN. HG

MAXIMUM CONTINUOUS POWER								
PRESS ALT-FT	OAT - °C							
	-20	-10	0	10	20	30	40	
SL	22.9	23.2	23.5	23.8	24.1	24.4	24.7	
2000	22.5	22.8	23.1	23.4	23.7	24.0	24.2	
4000	22.2	22.5	22.8	23.1	23.4	23.7	23.9	
6000	21.8	22.1	FULL THROTTLE					

FOR MAX TAKEOFF POWER (5 MIN), ADD 1.6 IN. HG

MANIFOLD PRESSURE LIMIT 5 MINUTE TAKEOFF RATING



AIRSPEDS FOR SAFE OPERATION

Takeoff & Climbs	60 KIAS
Maximum Range	100 KIAS
Autorotation	70 KIAS