Fuel System	Capacity	33 gal in L & R mains & 28 gal in Reserve (149L / 118L / 149L) 2.8lpm - 166 lph. Mains = 1h46m, Res = 0h42m, Total = 2h28m
	Supply	One engine-driven mechanical pump,
	Back-up	Gravity feed from Reserve
	Grade	100 LL - **Take-off on Mains, if power loss during T/O: Select Aux**
	Pressure	2 psi max
	Carburettor	No carb heat control, mixture baro controlled

Coolant	Level / type	Just up to weld on level of neck - **Honda car coolant w/50:50 distilled water**
	Valve opening	115°C
	Temps	Rising, 60°C T/O, max 115°C with 105°C in flight
	Radiator flap	Max open (Normal ops)

Oil	Tank level / cap	Small pool visible at bottom of filler neck cavity - 10.5 gal, 9 usable
	Temps	Move off at 15°C, run up & T/O at 40°C, 90°C max
	Pressures	Min 45 psi, normal 60-80 psi, 100 psi + on cold start-up, drops as warms
	Grade	W100
	Pre-oiling	1:30 mins max due to fuse overheating, or 'till note changes due to cavitation. Pressure should be 30 psi not 60 psi as currently

Electrical	Voltage	24V
Hydraulics	Operating press	600-800 psi, up to 1,000 psi

Brakes	Air pressures	Air, 180 psi (min), 110 psi / wheel. Max system: 300 psi (80psi/230psi)
	Steering	Differential braking, fully castoring TW

Under-carriage	Emergency release	1) emergency hyd pump, 2) foot activated red knob & yaw A/C to ensure locked down
	Tyre pressures	Mains: 50 psi, Tailwheel: 42 psi
	Position indicator lights	Red (2 bulbs) = up, Green (4 bulbs) = down.

Engine	Priming	Cold = 2 x empty, 4 x hard (5 if v. cold) / Hot = 2 x empty
	Starting	1) booster + starter, 2) engine fires: mags on, release starter 3) prime if necessary, secure when engine running smoothly
	Fire during start	Close throttle, continue cranking till flames out. Fuel off, switches off

Operations	In-flight engine failure	Force landing wheels UP, pitch lever fully BACK
	Run in & break	2,200 RPM at +½" boost. -4" boost on pitch-up, gear down, prop fully fine

Fuel Consump-tion	***Scenario***	***Cons***
	20 min aeros	20 gall
	30 min flight	25 gal
	25 gal reserve	30 min flt

Power Settings	***Phase***	***RPM***	***Boost***	***Fuel Cons***
	Take-off	2,750	+4"	2 gpm
	Aeros	2,400	+4"	1 gpm
	Climb	2,200	+2"	
	Cruise	1,800	½"	35 gph
	RI&B	2,200	½" & -4"	

Limiting Speeds	Vne (OCM)	288 mph
	Undercarriage	120 mph
	Flaps	120 mph
	Glide	110-130 mph
	Stall - clean	80 mph
	Stall gear/flaps d	60 mph
	Landing - power	80-85 mph
	Landing - glide	90 mph

Basic weight	5,882 lbs	GC Limit AoD
Full fuel	6,559 lbs	54"≤CG≤58"
MTWA	7,426 lbs	3,375 kg

Hangar Combination: 7497 Rev: JLT, v2, 240429