Super Decathlon

Speeds (MPH @ max gross weight)

V _{s1}	53
V _r	56
V _x	58
V _y	80
V _a	132
V _q	58
V _{no}	160
V _{ne}	200
Max Crosswind Comp	

Specifications

Specifications	
Standard empty weight	1305 lbs
Gross weight	1800 lbs
G-rating	
Normal	+5 to -3
Aerobatic	+6 to -5
Fuel	
Total	40 gal
Useable	
Pressure	14-45 psi
Inverted flight time	2 minutes

Fuel starvation may occur after a series of inverted flights since the header tank may have insufficient time to refill

Oil	6-8 qts
Tire pressure	
Main(s) 24 psi	(6.00x6, 4-ply or 6-ply)
Tail	40 psi (2.8x2.5)

Avoid continuous operation between 2000-2250 RPMs 2600-2700 RPMs

Tail slides or tumbling maneuvers are not approved in this aircraft

Cabin

Cabin	
Dispatch status	Signed/In-progress
Required docs (ARROW)	on board
Ignition switches	off
Avionics	off
Circuit breakers	check in
Master switch	on
Hobbs time	record from clock
Hobbs time se	elect for Hobbs hours
Reset switchp	ush for Hobbs tenths
Tach time	record
Fuel gauges	verify operational
Exterior lights	verify operational
Master switch	off
Cabin interior clea	an/free of loose items

Right Wing

Inspection holes	covered
Ailerons	movement/security

Spades	securely attached
Wingtip/nav lights	undamaged
Leading edge condition.	undamaged
Lift struts	undamaged
Tiedown	remove
Right main gear	. tire inflation/brake lines
Fuel quantity	check visually
Fuel cap	secured

Nose

Engine cowling	secure/undamaged
Oil level	6-8 qts, secured
Gas collator drain	ed/free of debris or water
Propeller/spinner	undamaged
Engine cooling inlets	unobstructed
Alternator belt	condition
Air filter inlet	unobstructed
Windshield	clean/undamaged

Left Wing

Fuel quantity	check
Fuel cap	secured
Left main gear	. tire inflation/brake lines
Tiedown	remove
Pitot tube	unobstructed
Stall warning switch	moves freely
Lift struts	undamaged
	undamaged
Wingtip/nav lights	undamaged
Ailerons	movement/security
Spades	securely attached
Inspection holes	covered

Empennage

<u>-</u> :	iipeiiiiage
General surface con-	ditionundamaged
Static air vent	unobstrocted
Fuel belly drain	sump
	movement/security/linkage
Trim tab	security/linkage
Rudder	movement/security/linkage
Brace wires	security/condition
Tail tie down	remove
Tail wheel	inflation/tread

Before Startup

Passenger briefing	complete
Seats/belts/harnesses	adjusted/secure
Cabin door	closed
Windows	as desired
Flight controls	free and correct
Avionics	off

Engine Start

Brakes	applied
Fuel shut-off valve	on
Mixture	rich
Propeller	full forward
Throttle	open ¼ inch
Master switch	on
Beacon	on
Fuel pump	on until fuel flow observed
Ignition switches	on

Prop area	clear left/center/right
Ignition button	push to start
	1000 rpm
Oil pressure	normal within 20 secs
Ammeter	ensure alternator charging
Fuel timer	start
Mixture	lean for ground ops
Avionics	on
Transponder	standby
Radios obtain	weather and taxi clearance

Taxi

Brakes	check
Controls	positioned for wind

Ground check/Engine run-up

Aircraft	turn into the wind
Controls full aft	for remainder of run-up
Brakes	
Door/window	closed/latched
Elevator trim	set to takeoff position
Mixture	
Propeller	
Throttle	1800 rpm
Oil pressure	normal
Oil temperature	normal
	charging
	75 rpm drop/run smooth
	check operation
	. verify engine operation
Throttle	•
Flight instruments	
Radiosnotify	tower/take-off clearance

Before Takeoff

on
on
on after dark
alt
clear on final/ahead/departure
on

Normal Takeoff

Throttlefull
Check instruments and engine gauges
Attituderaise the tail

On the ground with the tail raised, the wheel brakes are extremely sensitive. It is recommended that directional control be maintained with the use of rudder only.

Rotate	55-60 MPH
Initial climb-out	
Normal	75-80 MPH
Cruise climb	80-90 MPH
50' obstacle	58 MPH

Climb-out (once clear of all obstacles)

Engine gauges	check
Airspeed	87 KIAS
Fuel pump	off

Cruise

Throttle	2400-2500 rpm
Mixture	lean above 3000' msl
Heading indicator/compa	asscrosscheck
Landing/Taxi lights	off

Descent/Landing

Seatbelts and harnesses	
Fuel pump	on
Mixture	enrich as needed
Throttle	15 inHG
Propeller	full forward
Airspeed	
Normal	70-75 MPH
Crosswind	75-80 MPH
Short field	60 MPH

The use of wheel brakes is not recommended until after the tail wheel is in contact with the ground. For maximum braking, the control stick should be FULL AFT.

After Landing

clear/exited
standby
as needed
off
set for takeoff
. obtain clearance to taxi

Shutdown

Lights (except beacon)	off
Avionics	off
Mixture	full lean
Ignition switches	off
Master switch	off
Hobbs & tach time	record
Aircraft	tied down/in hangar
Main gear	chocked
Leading edges/surfaces	wipe down

Controls may be locked by securing the seat belt around the front control stick in a full aft position.

WARNING: The information needed in any checklist varies between individual aircraft and while we believe the information in this checklist to be accurate, no representations are made as to the degree of accuracy of this information. This information constitutes only partial information and is not to be used as a substitute for the information contained in the approved pilot's operating handbook. Use of this checklist indicates that the user assumes all risk of use and consents to bear all liability associated with the use of this product.