

Check - List for standard procedures

DOUGLAS - Mc DONELL DC3 'Dakota'

Pre-start check

parking brakes	set
locks & pins chocks	removed
doors & emergency exits	closed
hand pump	down
star valve	off
hydraulic pressure	up
fuel caps	secured
fire extinguisher	in place
log book and flight kit	on board
circuit breakers	check all in
hydraulic fluid	check quantity
flaps handle	neutral
gear selector	neutral
seats	adjusted
rudder	adjusted
rotating beacon	on
seat belts & non-smoking signal	on
radios	off
gyrosyn compass	slaved
prop alcohol	test
de-icer boots	off
warning lights	test
landing gear horn	test
trimmers	check and test
tail wheel lock	on
fuel selector - quant	check
carb heat	cold
mixture	i.c.o
propellers	full increased
throttles	cracked
cowl flaps	open & off
ignition	off
master switch	on
booster pumps	on

pre-start check completed

starting engines

propeller right	clear
after 12 blades	mags on prim
engine 800 rpm	mixt auto-lean
oil pressure	check
vacuum	check
propeller left	clear
after 12 blades	mags on prim
engine 800 rpm	mixt auto-lean
oil pressure	check
vacuum	check

starting engines completed

after both engines running

external power	off
master	on
booster pumps	off
radios	on
hydraulic pressures	check
magnetos	dead check
gyros & instruments	set
time	note

after both engines running check completed

Engines Run-up

parking brakes	on
engines instruments	check
mixtures	auto rich
carbs heat	check & cold
props	1700 RPM
props	pull to 1300
feathering	once daily
generators	charging rate
idle RPM	check field RPM

engines run-up check completed

Taxi check

brakes & tires	check
turn & bank	ok & check direction
compass & gyros	check swinging
full briefing	once daily

taxi check completed

Pre-Take-off	
locks & pins	removed
De-icing boots	off
mixture	auto-rich
propellers	full fine
trimmers	set
carbs heat	cold and lock
fuel selectors & quantity	cross check
booster pumps	on
magnetos	on both L & R
rotating beacon	on
nav lights	on
pitot heat	on
radio com + nav	settled
outside	check
windows	closed
altimetres	set
flaps	as req'd
controls	free full travel
cowl flaps	trail
engine gauges	checked
pre-take off check completed	

Take-Off Briefing	
adm pressure	40" to 48" manifold
1st power reduction	42.5" & 2550rpm
2nd reduction	34" & 2325rpm
normal cruise	27" & 2050rpm
V.C.M	76 Kias
climb	95 to 105 Kias
V1 = V2	85 Kias
1st altitude	announce
1st heading	announce
Take off briefing completed	

Line-up check	
clearance	check
OBS	set
comp.gyro, R/W Hdg	check & set
XPDR	set
landing lights	as req'd
props alcohol	as req'd
Line-up check completed	

After Take-Off Check (Level off)	
Rate of climb	positive
Landing gears	up
flaps	up & indicating up
depart heading	check
power reduction	as req'd
depart frequency	tune & call
landing gears lights	check, red
engine gauges	checked
boost pumps	off + off
cabin signs	as req'd
outside check	done
flaps & gear lever	neutral
cowl flaps	closed & off
After Take-Off Check (Level off) completed	

Cruise Check	
Power	27" & 1050Rpm
mixture	auto-Lean
anti-icing	check
fuel system	check
enroute heading	set
radios com + nav	as req'd
outside check	done
advise ATC	call
enroute altimeter	set
carbs heat	set
engine gauges	check
cruise check completed	

Descent Check	
star + inf + atis	note
radio com + nav	set
clearance	copy
altimetres	cross check
approach briefing	complete
engine gauges	check
fuel selectors & quant.	check
carb heat	set
parking brakes	off
trim	descent
heater	off
Descent Check completed	

Pre-Landing Check	
fuel system	on main + main
mixture	auto-rich
Boost pumps	on
tail wheel (+ skis, if equipped)	check position
cabin signs	as req'd
Landing Gears	Down + locked
Pre-Landing check completed	
On Final Check	
Flaps	as req'd
carbs heat	cold
props	increase
landing lights	as req'd
props de-ice	as req'd
Landing Gears	confirm Down + Locked
On Final Check completed	

After Landing Check	
Flaps	up
time down	note
pitot heat	off
anti-icing	off
landing lights	off
boost pumps	off
mixture	auto-lean
cowl flaps	open + off
call ATC	ground ctrl / close FPL
After Landing check completed	

Shut Down check	
brakes	on
throttles	1000Rpm
all electrical	off
mixtures	ICO
magnetos	off
avionics	off
master	off
hydraulic controls	split
lock pins & chocks	installed
windows	closed
Shut Down check completed	

Check - List for EMERGENCY PROCEDURES	
DOUGLAS - Mc DONELL DC3 'Dakota'	
ENGINE FIRE IN FLIGHT	
DEAD ENGINE	FEATHERED
FIREWALL SHUT-OFF	PULLED
MIXTURE	ICO
ENGINE FIRE IN FLIGHT	SECURE
AIRSPEED	INCREASE TO
	BLOW-UP FIRE
XPDR	7700
EMERGENCY CHECKLIST	
ELECTRICAL FIRE	
FLASH LIGHT	USE
MASTER	OFF
BREAKERS	PULL ALL
ELEC. SWITCHES	OFF
MASTER	ON
BREAKERS	ON 1 BY 1
CALL ATC	
XPDR	7700 OR 7600 AS REQ'D
LAND AT THE NEAREST AIRPORT	
ENGINE FIRE ON THE GROUND	
FIREWALL SHUT-OFF	PULLED
ALL SWITCHES	OFF
CALL ATC	NOW
TURN AIRCRAFT	DOWNWIND
MIXTURES	ICO
PASSENGERS	EVACUATE

RPM UNDERSPEED

POWER	REDUCE
MIXTURE	RICH
IF PROPELLER FEATHERED	
MIXTURE	ICO
PROP CONTROL	FEATHER
ENGINE	SECURE

RPM OVERSPEED

POWER	REDUCE
AIRSPEED	REDUCE
PROP CONTROL	FEATHER IF 2575+RPM
ENGINE	SECURE
DESCENT	TO MEA
ADVISE ATC	
EMERGENCY CHECKLIST	

GEAR-UP LANDING

CALL ATC	NOW
FUEL	BURN OFF
PASSENGERS	BRIEFED
LANDING CHECK	DONE
GEARS SELECT	UP
MASTER (DAY)	OFF
MIXTURES	ICO
PROPS	FEATHERED
FIREWALL SHUTOFF	PULLED
FUEL SELECTORS	OFF
MASTER (DAY)	OFF

EVACUATE AS SOON AS THE PLANE STOPS**ENGINE FAILURE IN FLIGHT**

CONTROL & AIRSPEED	MAINTAIN
GOOD ENGINE	DOWN 5°
MIXTURE	RICH
PROPELLERS	FORWARD
THROTTLE	MAX POWER
GEAR	UP
FLAPS	UP
DEAD FOOT = DEAD ENGINE	
FIRE, NO FIRE?	IF FIRE , CHECKLIST
	FIRE IN FLIGHT
IF NO FIRE:	TRY TO RESTART
THROTTLE DEAD ENGINE	CLOSE
BOOST PUMP	ON
FUEL + FUEL SELECT	CHECK
OIL PRESS + T°	CHECK
IF ENGINE NO RESTART:	FEATHER AND SECURE

SECURING DEAD ENGINE

THROTTLE	CLOSE
PROPELLER	FEATHERED
MIXTURE	ICO
COWL FLAPS	CLOSED & OFF
MAGNETOS	OFF
FUEL PUMP	OFF
FUEL PUMPS C.B DEAD ENGINE	PULLED
PROPS SYNC	OFF
ELECTRICAL LOAD	REDUCE
X-FEED	AS REQ'D

SINGLE ENGINE LANDING

DEAD ENGINE	SECURED
SEAT BELTS	ADJUSTED
HEATER	FAN
FUEL PUMP LIVE ENGINE	ON
PROP LIVE ENGINE	FORWARD
FUEL SELECTOR	INBOARD
X-FEED	AS REQ'D
COWL FLAPS	AS REQ'D
AIRSPEED	100 KIAS
ALTITUDE	HIGHER THAN NORMAL

WHEN LANDING IS ASSURED

GEARS	DOWN
FLAPS	AS REQ'D
TRIM	ADJUSTED

Empty rectangular area for notes or additional information.