



Douglas DC-6

Microsoft Flight Simulator 2004

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Panel: by Tom Gibson and Francois Ouellette

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Other simulator checklists and other sim/real aviation items available for download at <http://www.faatest.com> and <http://www.faatest.com/downloads/simchecklists/simchecklists.html>

Fuel Planning, $V_1/V_r/V_2$ Calculation

Following data are valid for an assumed trip of 1200-1400 NM,
@19'000 ft cruising altitude and 200 KIAS cruise speed.
Fuel is 3000 gal.

Pre-Start Checklist

Pre-Flight Inspection	CHECKED
Parking Brakes	SET
Throttle	IDLE
Magneto Switches	OFF
Battery & Generator Switches	OFF
Fuel Boost Pump Switches	OFF
Landing Gear Lever	CHECK DOWN
Cowl Flaps	OPEN
Flaps	UP
Master Engine Control Switch	#2
Propeller	HIGH RPM
Mixture	AUTO RICH
Fuel Selector	ON
Radar	OFF
Supercharger Switches	LOW
Batt & Grnd Switch	ON (Shift-M)
Voltage	CHECK 24 Volts
Batt vs. Grnd Switch	Pos. GRND
GRND Light	CHECK ON
Generator Switches	ON
GEN INOP Lights	CHECK ON
Panel Lights	ON if required
Fuel Quantity	CHECK
Flight controls	CHECK
Fasten Seat Belts Sign	ON
No Smoking Sign	ON
Radio Master and Avionics Switches	ON
Check Weather	(ATIS, Flight Services)
Anti-ice Switches	TEST/CHECK
Request Clearance	
Transponder	STANDBY
Beacon	ON





Startup Checklist

Engine and Propeller Area	CLEAR
Throttle	IDLE
Mixture	AUTO RICH
Carburetor Heat	COLD
Engine #3	ON
#3 Fuel Boost Pump	SELECT #3
Engine Select Knob	START
Start Switch	
Wait for the MAP to drop below ambient	
#3 Magneto Switch	SET BOTH
#3 Engine will start	Stabilize at 1000 RPM
#3 Engine Instruments	CHECK
#3 Fuel Boost Pump	OFF
Repeat for Engines 4 - 2 - 1	
All Engines	Stabilize at 1000 RPM
Engine Select Knob	OFF
Throttle	IDLE
Loadmeter / Voltmeter	CHECK 28 Volts
RPM Synch button	RESYNCH
All Generators on-line	CHECK "INOP LIGHTS" OFF
Batt vs. Grnd Switch	Pos. BATT
Engine Instruments	CHECK

Before Taxi Checklist

Nav Lights	ON
Taxi Lights	ON
Heading Indicator / Altimeter	SET
Instruments	NORMAL OPERATION
Radios and Avionics	CHECKED and SET
Autopilot	SET and OFF
<i>Request Taxi Clearance</i>	

Taxi Checklist

Parking Brake	RELEASE
Taxi to RUNUP Position <1500 RPM	SPEED Max. 25 kts
Parking Brake	SET
RUNUP Section	
Supercharger Switches	HIGH
Throttle	advance to 2000 RPM
Supercharger Switches	to LOW one by one
	CHECK MAP drop
Throttle	adjust for 1700 RPM
Prop Pitch System	CHECK FUNCTION
Throttle	adjust for 30" MAP
#1 Magneto	Switch to RIGHT
	then BOTH
	then LEFT
	then BOTH
	CHECK drop <100 RPM each
	CHECK drop <40 RPM between
Repeat for Engines 4 - 2 - 3	
Taxi to assigned runway	SPEED Max. 25 kts
Brakes	CHECK during taxi
Directional Gyro	PROPER IND. during turns
Turn Coordinator	PROPER IND. during turns
Artificial Horizon	ERECT during turns

Before Take-off Checklist

Parking Brake	SET
Fuel Quantity	CHECK
Cowl Flaps	TAKEOFF POSITION 4 deg
Throttle	IDLE
Propeller	HIGH RPM
Mixture	AUTO RICH
Elevator Trim	SET for takeoff
Flaps	20 deg
Flight Controls	FREE AND CORRECT

Fuel Selector	OFF
Beacon	OFF
Panel Light	OFF
Generator Switches	OFF
Batt & Grnd Switch	OFF (Shift-M)

Securing Aircraft

Parking Brake	Verify SET
Throttle	Verify IDLE
All Switches	Verify OFF
Cowl Flaps	CLOSE

DC-6B STATISTICS

Airspeed Limitations	Max. allowable speed
Wing Flaps DOWN 0-30 degrees	170 KIAS
Wing Flaps DOWN >30 degrees	150 KIAS
Landing Gear DOWN	170 KIAS
Landing Lights extended	210 KIAS
Autopilot engaged	214 KIAS
Maximum use of Flight Controls	182 KIAS
Crosswind speed	26 kts

In severe turbulence:	Recommended speeds
<84,400 lbs	150 KIAS
>84,400 lbs	160 KIAS
@ 88,200 lbs:	
Flaps 20 degrees	155 KIAS
Flaps 30 degrees	120 KIAS
Flaps 50 degrees over boundary	105 KIAS

NEA Reserve Fuel Load: 2000 lbs

Landing Checklist

Landing Gear	CHECK DOWN, 3 GREEN
Autopilot	OFF
Landing Speed	110 KIAS
Touchdown	MAIN WHEELS FIRST
Landing Roll	LOWER NOSE WHEEL
After touchdown	Apply Reverse Braking,
At 50 kts:	Cancel Reverse Braking

Taxi To Ramp

Strobe Light	OFF
Flaps	RETRACT
ADI Injection Pumps	OFF
Radar	OFF
Taxi Lights	ON
Landing Lights	OFF
Anti-ice	OFF
Speed	Max. 20 knots
Cowl Flaps	OPEN
Elevator Trim	TAKEOFF SETTING
Avionics/Radios	AS REQUIRED
Transponder	1200

Shutdown Checklist

Parking Brake	SET
Throttle	IDLE
Fasten Seat Belts Sign	OFF
No Smoking Sign	OFF
Fuel Boost Pumps	OFF
Radio Master and Avionics Switches	OFF
Taxi Lights	OFF
Nav Light	OFF
Pitot Heat	OFF
Carburetor Heat	OFF
Magnetos	OFF

Radios and Avionics	SET
Takeoff Data (V1, Vr, V2)	CHECK
Landing Lights	ON
Strobe Light	ON
Pitot Heat	ON
Anti-ice	AS REQUIRED
Flight Instruments	CHECK
ADI Injection Pumps	ON
ADI Injection Pump Pressure Lights	CHECK ON
Engine Instruments	CHECK
Transponder	ON

Request Takeoff Clearance

Take-off Checklist

Smoothly increase thrust to	FULL	2800 RPM	59"
Brakes	RELEASE		
V1 =	95 KIAS	(descision)	
Vr = V2	110 KIAS	(rotate, safety speed)	
Pitch	5-10 degrees		
At Positive Climb Rate	Touch Brakes		
Landing Gear	RETRACT		
At 130 KIAS	set Flaps to 10 deg		
At 140 KIAS	Flaps UP		
Trim for climb to maintain	150 KIAS	2600 RPM	45"
Rate of Climb	800 - 1200 fpm		
ADI Injection Pumps	OFF		
Annunciator Lights	CHECK OFF		
Flight Instruments	CHECK		
Engine Instruments	CHECK		

Climb-out Checklist

Airspeed	160 KIAS	2400 RPM
Rate of Climb	700 fpm	
Throtte	adjust MAP to maintain speed	
RPM Synch button	RESYNCH	

Radar	ON
Autopilot	CHECK and SET
Taxi Lights	OFF
Above 10'000 ft Fuel Boost Pumps	ON
At 16'000 ft Supercharger Switches	HIGH
Landing Lights	OFF
Cowl Flaps	btw CLOSED and 1.5 deg
Engine Instruments	MONITOR
ATC	AS REQUIRED
Fasten Seat Belts Sign	OFF
No Smoking Sign	OFF
Consult Notepad for Critical Altitude	CHECK, don't exceed
At Transition Altitude (FL180) set Altimeter to 29,92" (1013mb)	

Cruise Checklist

Accelerate to cruise speed	
Long Range	19'000 ft 200 KIAS 1750 RPM 35"
Max	22'000 ft 230 KIAS 2200 RPM 35"
Service Ceiling	see Notepad for Critical Altitude
Fuel Boost Pumps	OFF
Cowl Flaps	CLOSED
Engine Temperatures	STABILIZE at cruise cond.
Fuel Quantity	CHECK
Fuel Balance	CHECK
Radios	TUNED and SET
Autopilot	CHECK and SET
Lights	as required
Flight Instruments	CHECK
Engine Instruments	CHECK

Descent Checklist

Atis/Airport Information	CHECK
Altimeter	CHECK
Radios	SET
Throttle	decrease SLOWLY (!)
Descent Speed	180 KIAS 2000 RPM 20"

Descent Rate	-700 fpm
Flaps	CHECK UP
Landing Gear	CHECK UP
Fuel Quantity	CHECK
Fuel Balance	CHECK
Cowl Flaps	CHECK CLOSED
Flight Instruments	CHECK
Engine Instruments	CHECK
At Transition Altitude (FL180) reset Altimeter to local	
Below 16'000 ft Supercharger Switches	LOW
Below 10'000 ft Fuel Boost Pumps	OFF
Check Weather	(ATIS, Flight Services)

Approach Checklist

Localizer Level Flight :

Landing Lights	ON
Fasten Seat Belts Sign	ON
No Smoking Sign	ON
Fuel Boost Pumps	ON
Propeller	HIGH RPM
Mixture	AUTO RICH
Speed: Establish	155 KIAS 34"
Flaps	SET 10-20 deg
Speed: Establish	140 KIAS 37"
Flaps	SET 30 deg
Landing Gear	DOWN
Turning toward runway: set flaps	SET 40 deg to FULL DOWN

Final Glideslope Descent :

ADI Injection Pumps	ON
ADI Injection Pump Pressure Lights	CHECK ON
Flight Instruments	CHECK
Engine Instruments	CHECK
Speed: Establish	130 KIAS 32"
Elevator Trim	AS DESIRED
Cowl Flaps	TAKEOFF POSITION 4 deg
Parking Brake	VERIFY OFF
Anti-ice	AS REQUIRED