

DPW Solutions

David's Flight Simulator – Operations Manual

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David Woolterton
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David's Flight Simulator –Operations Manual

Table of Contents

Pre-Start Checklist.....	2
Startup Checklist	3
Before Taxi Checklist	3
Taxi Checklist.....	4
Before Take-off Checklist.....	4
Take-off Checklist.....	4
Climb-out Checklist	5
Cruise Checklist (above FL 180)	5
Descent Checklist	5
Approach Checklist	6
Landing Checklist	6
Taxing To Ramp Checklist	6
Shutdown Checklist.....	7
Securing Aircraft Checklist	7

David's Flight Simulator –Operations Manual

Pre-Start Checklist

	Status	Check
Parking Brake	SET	
Throttle	IDLE	
Fuel Flow	CUTOFF	
BATT Master Switch	ON	
Standby Power Switch	Auto	
Panel Lights	AS Required	
Hydraulic Pump Switches	ON	
Landing Gear Lever	DOWN	
Flaps	UP (0)	
Spoiler	RETRACTED	
Select Ground Power if available or Start APU		
APU	START / CHECK RUN	
APU Gen	ON / CHECK VOLTS	
Fuel Quantity	CHECK	
Pitot Heat / De-Ice	OFF	
Aircraft Lighting	OFF	
Flight controls	FREE AND CORRECT	
Passenger Signs	OFF	
Check Weather (Atis, Flight Services)	TEST/CHECK	
De-Ice		
Request Clearance		
Transponder	STANDBY	
Beacon / Anti Collision Lights	ON	

David's Flight Simulator –Operations Manual

Startup Checklist

	Status	Check
Thrust Levers	IDLE	
Engine Area	CLEAR	
Engine Start Switches	GND / IGN BOTH	
Cross feed to	CLOSED	
Pumps to	ON	
Red Generator Switches should be	CLOSED	
Toggle APU Bus Switches		
Window and Probe Heat can be selected on as required		
Electric Hyd pumps	ON	
Trim Air	ON	
L & R RECTRC FANS	ON	
APU Bleed	ON	
ISOLATION Valve	ON	
L & R Engine Bleed Air	ON	
L & R Packs to	AUTO	
Select Landing and Cursing Altitude		
Select Lighting as required		
Make sure the Thrust Levers are fully back and	CLOSED	
Select L or R or Both Ignite for engine start		
Select GRD for Engine Start		
When Engine reaches 20% of Fuel Cut off to	IDLE	
When both Generators are available bring the BUS on line		
Engine driven HYD to	ON	
APU	OFF	

Before Taxi Checklist

Nav Lights	ON	
Taxi Lights	ON	
Heading Indicator/Altimeters	SET	
Standby Instruments	SET	
Radios and Avionics	SET FOR DEPARTURE	
Autopilot	ON, SET, don't activate	
Autothrottle	ON, SET, don't activate	
F/D	ON	
Autobrake	RTO	
Elevator Trim	SET for takeoff	
Request Taxi Clearance		

David's Flight Simulator – Operations Manual

Taxi Checklist

Parking Brake	RELEASE	
Taxi to assigned runway	SPEED Max. 20 knots	
Brakes/Gyro/Turn Coordinator	CHECK during taxi and turns	

Before Take-off Checklist

Parking Brake	SET	
Throttle	IDLE	
Elevator Trim	SET for takeoff	
Flaps	SET for takeoff (5 deg)	
Spoilers	RETRACTED	
Flight Instruments	CHECK	
Engine Instruments	CHECK	
Takeoff Data (V1, VR, V2)	CHECK	
Nav Equipment	CHECK	
Landing Lights	ON	
Taxi Lights	OFF	
Strobe Light	ON	
Pitot Heat	ON	
De-Ice	AS REQUIRED	
Transponder	ON	
Request Takeoff Clearance		

Take-off Checklist

Smoothly increase thrust to	60% N1 let spool up	
Takeoff Thrust	FULL or TO/GA	
Brakes	RELEASE	
V1 =	145 KIAS (decision)	
Vr =	150 KIAS (rotate)	
Pitch	10 deg. nose up	
V2 =	160 KIAS (safety speed)	
At Positive Climb Rate	Touch Brakes Landing Gear RETRACT	
At 1000' AGL	RETRACT Flaps to 1 deg	
At 210 KIAS	RETRACT flaps up	

David's Flight Simulator – Operations Manual

Climb-out Checklist

Throttle	AS REQUIRED	
Trim for	250 KIAS / 1800 fpm	
Autopilot/Autothrottle	CHECK and ACTIVATE	
Autobrake	OFF	
Below 10000' max. Speed	250 KIAS	
ATC	AS REQUIRED	
Fasten Seat Belts	OFF	
No Smoking Sign	OFF	
Landing Lights	OFF	
Above 10000' speed	280 KIAS	

Cruise Checklist (above FL 180)

At Transition Altitude (FL180) set Altimeter to	29,92" (1013mb)	
Accelerate to cruise speed	FL180 0.67 mach (330 KIAS)	
	FL240 0.75 mach (330 KIAS)	
	FL280 0.78 mach (320 KIAS)	
	FL330 0.78 mach (285 KIAS)	
Engine+Instruments	CHECK	
Fuel Quantity	CHECK	
Radios	TUNED and SET	
Autopilot	CHECK and SET	
Lights	as required	

Descent Checklist

Atis/Airport Information	CHECK	
Altimeter	CHECK	
Radios	SET	
De-ice	AS REQUIRED	
Descent Speed to FL240	0.75 mach	
to FL180	0.65 mach	
At Transition Altitude (FL180) reset Altimeter to local		
to FL120	280 KIAS	
below 10'000ft	250 KIAS	
Fuel Quantities and Balance	CHECK	
Flaps / Landing Gear	CHECK UP	
Check Weather (ATIS, Flight Services)		

David's Flight Simulator –Operations Manual

Approach Checklist

Localizer Level Flight:		
Fasten Seat Belts	ON	
No Smoking Sign	ON	
APU	START / CHECK RUN	
APU Gen	ON / CHECK VOLTS	
Avionics + Radios	SET	
Speed Establish	210 KIAS	
Landing Lights	ON	
Auto Spoilers	ARM	
Autobrake	SET	
Flaps	5-10 degrees	
Speed: Establish	175 KIAS	
Flaps	15-20 degrees	
Speed: Establish	155 KIAS	
Landing Gear	DOWN	
Turning toward runway set flaps	30 degrees or FULL	
Final Glideslope Descent :		
Speed Establish 140 KIAS		
Parking Brake	VERIFY OFF	
De-Ice	AS REQUIRED	

Landing Checklist

Landing Gear	CHECK DOWN	
Autopilot and Autothrottle	OFF	
Landing Speed 135 KIAS		
After touchdown	Apply Reverse Thrust	
At 60 kts:	Cancel Reverse Thrust	
Spoilers	VERIFY EXTENDED	
Brakes	AS REQUIRED	

Taxing To Ramp Checklist

Strobe Light	OFF	
Flaps	UP	
Spoilers	RETRACTED	
Taxi Lights	ON	
Landing Lights	OFF	
Speed	Max. 20 knots	
Transponder	1200 / OFF	
Elevator Trim	TAKEOFF SETTING	

Shutdown Checklist

Parking Brake	SET	
Throttle	IDLE	
Passenger Signs	OFF	
Pitot Heat / De-Ice	OFF	
Taxi Lights	OFF	
Nav Lights	OFF	
F/D	OFF	
Master Starter Switches	OFF	
Beacon / Anti Collision Lights	OFF	
Hydraulic Pump Switches	OFF	
APU Gen	OFF	
BATT Master Switch	OFF	

Securing Aircraft Checklist

Parking Brake	Verify SET	
Throttle	Verify IDLE	
All Switches	Verify OFF	