DHC-6 Twin Otter

(wheel)

Microsoft Flight Simulator X

Aircraft and Panel :
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Pre-Start Checklist

Parking Brakes	SET
Throttle	IDLE
Battery Switch	OFF
Avionics Master Switch	OFF
Flaps	UP
Propeller	HIGH RPM
Fuel Cond. Lever	FUEL CUTOFF
Battery Switch	ON
Panel Lights	ON if required
Fuel Quantity	CHECK
Flight controls	CHECK
Avionics Master Switch	ON
Check Weather	(ATIS, Flight Services)
Anti-ice Switch	TEST/CHECK
Anti-ice Annunciators	ILLUMINATED
Request Clearance	
Transponder	STANDBY
Beacon	ON

Startup Checklist

Engine and Propeller Area	CLEAR
Throttle	IDLE
Fuel Flow	ON
Right Ignition and Engine Start Switch	ON
Right ITT and N1 Turbine RPM	MONITOR
Right FUEL PRESS LO Annunciator	EXTINGUISHED
Right OIL PRESS LO Annunciator	EXTINGUISHED
Right Oil Pressure	CHECK
Right Generator	ON

==> Repeat for left engine

Feather/Unfeather Props	CHECK once
Engine Instruments	CHECK

Taxi To Ramp

Strobes	OFF
Flaps	RETRACT
Taxi Lights	ON
Landing Lights	OFF
Anti-ice	OFF
Speed	Max. 20 knots
Elevator Trim	TAKEOFF SETTING
Avionics/Radios	AS REQUIRED
Transponder	1200

Shutdown Checklist

Parking Brake	SET
Throttle	IDLE
Autofeather	OFF
Avionics Switch	OFF
Taxi Lights	OFF
Nav Lights	OFF
Pitot Heat	OFF
Fuel Cond. Lever	CUTOFF
Propeller	FEATHER
Beacon	OFF
Panel Light	OFF
Battery Switch	OFF when N1<15%
Generator Switches	OFF

Securing Aircraft

Parking Brake	Verify SET
Throttle	Verify IDLE
All Switches	Verify OFF

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
Autofeather	ARM
Anti-ice	AS REQUIRED

Request Taxi Clearance

Taxi Checklist

Parking Brake	RELEASE
Taxi to assigned runway	SPEED Max. 20 knots
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
Throttle	IDLE
Propeller	HIGH RPM
Elevator Trim	SET for takeoff
Flaps	SET 10-20 deg
Flight Controls	FREE AND CORRECT
Radios and Avionics	SET
Landing Lights	ON
Taxi Lights	OFF
Engine Instruments	CHECK
Annunciator Lights	CHECK
Strobe Light	ON
Pitot Heat	ON
Anti-ice	AS REQUIRED
Transponder	SET

Request Takeoff Clearance

Take-off Checklist

Smoothly increase thrust to	FULL
Brakes	RELEASE
V1 =	85 KIAS (descision)
Vr =	90 KIAS (rotate)
Pitch	10-15 degrees
V2	95 KIAS (safety speed)
At Positive Climb Rate	Touch Brakes
Trim for climb to maintain	105 KIAS
At 500' AGL	RETRACT FLAPS
Annunciator Lights	CHECK
Engine Instruments	CHECK

Climb-out Checklist

Propeller Synchrophaser	ON
Autopilot	CHECK and SET
Landing Lights	OFF
Airspeed	120 KIAS Torque 35
Climb Rate	approx. 1000 fpm
Engine Instruments	MONITOR
ATC	***AS REQUIRED***

At Transition Altitude (FL180) set Altimeter to 29,92" (1013mb)

Cruise Checklist

Accelerate to cruise speed	160 KIAS Torque 32
Normal Cruise Altitude	5'000 - 8'000 ft
Autofeather	OFF
Service Ceiling	21'000 ft
Engine+Instruments	CHECK
Engine Temperatures	STABILIZE at cruise cond.
Anti-ice	AS REQUIRED
Fuel Quantity	CHECK
Radios	TUNED and SET
Autopilot	CHECK and SET
Lights	as required
Engine Instruments	CHECK

Descent Checklist

Atis/Airport Information	CHECK
Altimeter	CHECK
Radios	SET
Autofeather	ARM
Descent Speed	140 KIAS Torque 15
Flaps	CHECK UP
Fuel Balance	CHECK

At Transition Altitude (FL180) reset Altimeter to local

Check Weather	(ATIS, Flight Services)

Approach Checklist

Localizer Level Flight :

Anti-ice	AS REQUIRED
Autofeather	VERIFY ARMED
Propeller	HIGH RPM
Fuel Cond. Lever	FULL
Landing Lights	ON
Speed: Establish	125 KIAS Torque 22
Flaps	SET 10 deg
Speed: Establish	105 KIAS Torque 25
Flaps	SET 20 deg
Turning toward runway: set flaps	30 - 35 deg

Final Glideslope Descent :

Speed: Establish	100 KIAS Torque 25 30
Elevator Trim	AS DESIRED
Parking Brake	VERIFY OFF

Landing Checklist

Autopilot	OFF
Landing Speed	90 KIAS
Touchdown	MAIN WHEELS FIRST
Landing Roll	LOWER NOSE WHEEL
After touchdown	Apply Reverse Thrust, at 50 kts: Cancel Reverse Thrust