

Douglas R4D-6 NATS (DC-3 / C-47)

Microsoft Flightsimulator 2002

Designer : Jan Visser
Flight Dynamics : Roy Chaffin, Bill Rambow, Erik Ellis,
Jan Visser, & Brian Withers
Checklist (original) : Bill Rambow from USAAF C-47 PTM
Panel : Bill Rambow and Roy Chaffin

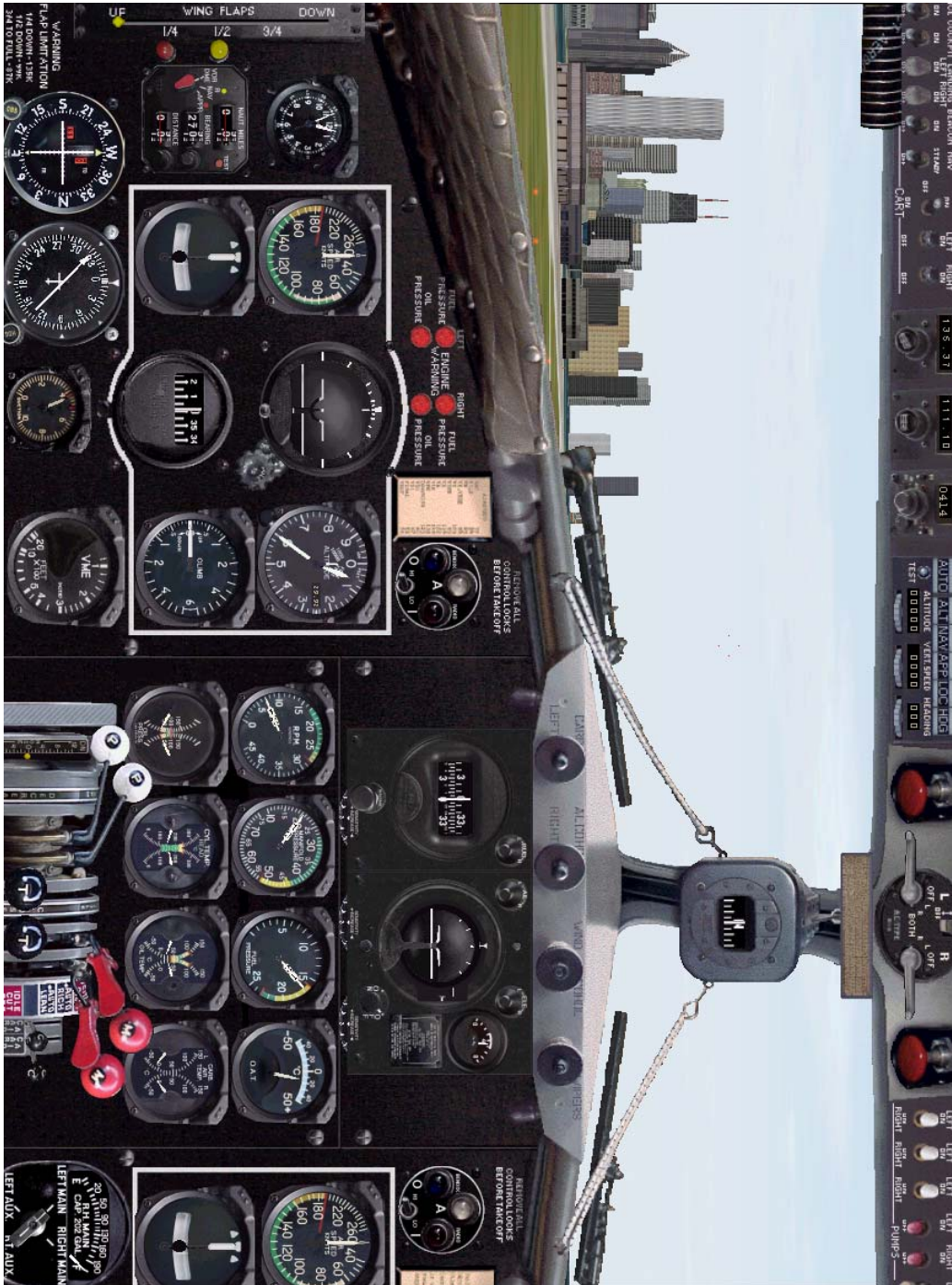
Erik Ellis solved the seemingly insoluble problem of how to make a taildragger that will ground steer really well.

Eric Mitchell's super realistic unsynchronized gear retraction and extension.



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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>



Pre-Start Checklist

Parking Brakes	SET
Throttle	IDLE
Propeller	HIGH RPM
Mixture	CUTOFF
Battery Switch	ON
Generators	ON
Landig Gear Lever	CHECK DOWN
Flaps	UP
Flight controls	CHECK
Elevator Trim	SET for takeoff (Center)
Ignition Master Switch	ON
Fuel Quantity	CHECK
Fuel Selector	ALL
Cowl Flaps	OPEN
Blowers	LOW
Pitot Heat	OFF
Radio Master Switch	ON
Check Weather	(ATIS, Flight Services)
De-Ice	OFF

Request Clearance

Transponder	SET
Beacon	ON

Startup Checklist

Engine and Propeller Area	CLEAR
Throttle	IDLE, cracked
Mixture	CUTOFF, cracked
Right Magneto Lever	BOTH
Right Fuel Booster Pump	ON
Prime Switch	ON Right
Start Switch	ON Right 10-15 sec.
Vibrator Switch	ON Right ==> Engine starts
Vibrator Switch	OFF
Start Switch	OFF
Prime Switch	OFF
Right Fuel Booster Pump	OFF



Landing Checklist

Landing Gear	CHECK DOWN, GREEN
Autopilot	OFF
Landing Speed	80-85 KIAS
Touchdown	MAIN WHEELS FIRST
Landing Roll	LOWER TAIL WHEEL

Taxi To Ramp

Flaps	RETRACT
Cowl Flaps	OPEN
Landing Lights	OFF
Speed	Max. 20 knots
Elevator Trim	SET for takeoff (Center)
Fuel boost pumps	OFF

Shutdown Checklist

Parking Brake	SET
Throttle	IDLE
Fasten Seatbelts	OFF
No Smoking Sign	OFF
Pitot Heat	OFF
Ignition Master Switch	OFF
Mixture	CUTOFF
Fuel Selector	OFF
Radio Master Switch	OFF
Panel/Cockpit Lights Capt+FO	OFF
Nav Lights	OFF
Beacon	OFF
Generator Switches	OFF
Battery Switch	OFF

Securing Aircraft

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

Left Magneto Lever	BOTH
Left Fuel Booster Pump	ON
Prime Switch	ON Left
Start Switch	ON Left 10-15 sec.
Vibrator Switch	ON Left ==> Engine starts
Vibrator Switch	OFF
Start Switch	OFF
Prime Switch	OFF
Left Fuel Booster Pump	OFF
Mixture	AUTO Rich
Engine Instruments	CHECK
Nav Lights	Steady
Panel/Cockpit Lights Capt+FO	ON if necessary

Before Taxi Checklist

Altimeter	SET
Heading Indicator	SET (Press "D")
Sperry MK III autopilot	DEACTIVATE by : <i>set the three sensitivity wheels to ZERO align the aileron marks using the AIL knob align the index marks using the ELE knob</i>
Radios and Avionics	CHECKED and SET
Autopilot	SET and OFF
Fuel Selector	ALL TANKS
Instruments	NORMAL OPERATION
De-Ice	AS REQUIRED
<i>Request Taxi Clearance</i>	

Taxi Checklist

Fasten Seatbelts	ON
No Smoking Sign	ON
Parking Brake	RELEASE
Brakes	CHECK during taxi
Directional Gyro	PROPER IND. during turns
Turn Coordinator	PROPER IND. during turns
Artificial Horizon	ERECT during turns
Taxi to assigned runway	SPEED Max. 20 knots

Before Take-off Checklist

Parking Brake	SET
Pitot Heat	ON
Landing Lights	ON
Throttle	IDLE
Propeller	HIGH RPM
Mixture	AUTO Rich
Cowl Flaps	CHECK OPEN
Elevator Trim	SET for takeoff (Center)
Engine Instruments	CHECK
Radios and Avionics	SET
Fuel Booster Pumps	ON

Request Takeoff Clearance

Take-off Checklist

Smoothly increase thrust to	FULL	53"
Brakes	RELEASE	
At 40 kts	apply forward yoke until tail lifts to horizontal	
V1 =	80 KIAS (descision)	
Vr =	85 KIAS (rotate)	
Pitch	10 degrees	
At Positive Climb Rate	Touch Brakes	
Landing Gear	RETRACT	
Trim for climb to maintain	110 KIAS	30"
Engine Instruments	CHECK	

Climb-out Checklist

Autopilot	CHECK and SET	
Climb Rate	700fpm	
Airspeed	125 KIAS	33"
Landing Lights	OFF	
Fasten Seatbelts	OFF	
No Smoking Sign	OFF	
Fuel Booster Pumps	OFF	
Engine Instruments	MONITOR	
ATC	AS REQUIRED	

Cruise Checklist

Accelerate to cruise speed	160 KIAS	32"
Engine+Instruments	CHECK	
Cowl Flaps	CLOSED	
Fuel Quantity	CHECK	
Radios	TUNED and SET	
Autopilot	CHECK and SET	
Lights	as required	
Engine Instruments	CHECK	

Descent Checklist

Altimeter	CHECK / SET	
Radios	SET	
Descent Speed	140 KIAS	18"
Flaps	CHECK UP	
Landing Gear	CHECK UP	
Fuel Balance	CHECK	
Check Weather	(ATIS, Flight Services)	

Approach Checklist

Localizer Level Flight :

Fasten Seatbelts	ON	
No Smoking Sign	ON	
Fuel boost pumps	ON	
Speed: Establish	125 KIAS	20"
Flaps	1/4	
Speed: Establish	105 KIAS	22"
Landing Gear	DOWN	
Speed: Establish	95 KIAS	25"
Flaps	1/2	

Final Glideslope Descent :

Speed: Establish	85 KIAS	15"
Flaps	3/4 to FULL	
Landing Lights	ON	
Elevator Trim	AS DESIRED	
Parking Brake	VERIFY OFF	