

Project Airbus A320

Modified by François Doré

Checklist © Jean-Pierre Varnier

This checklist has been established for Flight Simulator use ONLY

NORMAL PROCEDURE

Pre-start Checklist

- | | |
|---|-----------------|
| <input type="checkbox"/> Parking Brake | SET |
| <input type="checkbox"/> Throttle | IDLE |
| <input type="checkbox"/> BATT Master Switch | ON |
| <input type="checkbox"/> Battery Voltage | CHECK |
| <input type="checkbox"/> Aircraft Lighting | OFF |
| <input type="checkbox"/> Panel Lights | ON if required |
| <input type="checkbox"/> Landing Gear Lever | CHECK DOWN |
| <input type="checkbox"/> Flaps | CHECK UP |
| <input type="checkbox"/> Spoilers | CHECK RETRACTED |

If using of APU is allowed on airport

- | | |
|---|----------------------|
| <input type="checkbox"/> APU | ON / CHECK 100% |
| <input type="checkbox"/> APU GEN | ON / CHECK VOLTS |
| <input type="checkbox"/> APU Bleed Valve Pressure | READ (on BLEED page) |

- | | |
|--|-------------------------|
| <input type="checkbox"/> Fuel Quantity | CHECK |
| <input type="checkbox"/> Gross weight | CHECK |
| <input type="checkbox"/> Pitot Heat / De-Ice | OFF |
| <input type="checkbox"/> Fasten Seat Belts | ON |
| <input type="checkbox"/> No Smoking Sign | ON |
| <input type="checkbox"/> Check Weather | (Atis, Flight Services) |
| <input type="checkbox"/> De-Ice | TEST/CHECK |

[] Request Clearance

- | | |
|--|----------|
| <input type="checkbox"/> Transponder | STAND BY |
| <input type="checkbox"/> Beacon / Recogn. Lights | ON |

Start-up Checklist

- | | |
|--|-------|
| <input type="checkbox"/> Thrust Levers | IDLE |
| <input type="checkbox"/> Engine Area | CLEAR |

Two ways for engines starting, if APU is running

- | | |
|--|----------------------------|
| <input type="checkbox"/> APU Bleed Valve | OPEN (green on BLEED page) |
|--|----------------------------|

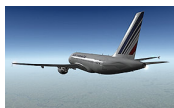
Or

- | | |
|---|----------------------------------|
| <input type="checkbox"/> X FEED Rotative Switch | APU |
| <input type="checkbox"/> APU Bleed Valve | CHECK OPEN (green on BLEED page) |

- | | |
|---|--|
| <input type="checkbox"/> Engine Starter Switch | IGN START |
| <input type="checkbox"/> Fuel X FEED | OPEN |
| <input type="checkbox"/> Left Engine (ENG1) | |
| ENG1 Fuel Pump | ON |
| ENG1 STARTING | ALLOWED (green triangle on BLEED page) |
| Master Starter Switch 1 | ON |
| At N2 > 20% Fuel Flow | CHECK ON |
| At N2 > 20% HYD PUMP ENG1 | CHECK ON |
| N1 increasing as N2 incr. | CHECK |
| Oil Pressure | CHECK |
| <input type="checkbox"/> ENG1 Bleed Valve | OPEN |
| <input type="checkbox"/> ENG1 Generator | CHECK ON |
| <input type="checkbox"/> X FEED Rotative Switch | ENG5 |
| The APU Bleed Valve will be temporarily closed. | |
| <input type="checkbox"/> Right Engine (ENG2) | |
| ENG2 Fuel Pump | ON |
| ENG2 STARTING | ALLOWED (green triangle on BLEED page) |
| Master Starter Switch 2 | ON |
| At N2 > 20% Fuel Flow | CHECK ON |
| At N2 > 20% HYD PUMP ENG2 | CHECK ON |
| N1 increasing as N2 incr. | CHECK |
| Oil Pressure | CHECK |
| <input type="checkbox"/> ENG2 Bleed Valve | OPEN |
| <input type="checkbox"/> ENG2 Generator | CHECK ON |
| <input type="checkbox"/> Engine Starter Switch | MODE NORM |
| <input type="checkbox"/> Fuel X FEED | CLOSED |

Option

- | | |
|--|--------|
| <input type="checkbox"/> APU Bleed Valve | CLOSED |
| <input type="checkbox"/> APU Generator | OFF |
| <input type="checkbox"/> APU | OFF |



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Two ways to finish engines starting

[] X FEED Rotative SHUT Switch

In case of engine failure, you will have to put :

- APU on ON,
- APU Bleed push button on ON,
- the X FEED rotative switch on APU or ENGS,

to supply failing circuit.

Or

[] X FEED Rotative AUTO Switch

In case of engine fire :

- APU will be automatically run,
- APU will automatically open the APU Bleed valve and the CrossBleed,

to supply failing circuit.

[] HYD Electrical Pump	ON
[] HYD Pressure	CHECKED
[] FLT CTL: ELAC1, SEC1, FAC1	ON, IF WANTED <i>If ON, flying A/C is particular.</i>
[] FLT CTL : ELAC2, SEC2, SEC3, FAC3	ON
[] MAST WARN	RESETTED (push on MAST WARN button)
[] MAST CAUT	CHECK OFF
[] Flight Control	CHECK FREE AND CORRECT

Before Taxi Checklist

[] Nav. Lights	ON
[] Taxi Lights	ON
[] Heading Indicator / Altimeters	SET
[] Standby Instruments	SET
[] VOR 1 & VOR 2	ON
[] Radios and Avionics	SET for Departure
[] ADIRS	ON
[] Autopilot(HDG, ALT, SPEED, VS)	SET, don't activate
[] Auto-throttle	ON, don't activate SPEED
[] F/D	ON
[] Auto-brake	SET RTO

[] Anti-skid	ON
[] Elevator Trim	SET for take off

Adjust elevator trim, per example :

- between -0.5° and -1° if A/C is light or very light,
- at max weight 0° at max weight.

[] Request Taxi Clearance

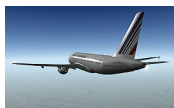
Taxi Checklist

[] Parking Brake	RELEASE
[] Taxi to assigned runway	Max. Speed 20 kts
[] Brakes / Gyro / Turn Coordinator	CHECK during taxi and turns

Before Take-off Checklist

[] Parking Brake	SET
[] Throttle	IDLE
[] Elevator Trim	SET for takeoff
[] Flaps	Pos. 1 + F or 2 (press F7 as necessary)
[] Spoilers	RETRACTED
[] Flight Instruments	CHECK
[] Engine Instruments	CHECK
[] Take off Data (V1, VR, V2)	CHECK (see the Reference page of the Kneeboard)
[] Nav. Equipment	CHECK
[] Landing Lights	ON
[] Taxi Lights	OFF
[] Strobe Light	ON
[] Pitot Heat	ON
[] De-Ice	AS REQUIRED
[] Transponder	ON
[] Auto-throttle	ARM (if using TO/GA mode for take off)
[] Auto-pilot : HDG, ALT, SPEED, V/S	Adjusted
[] Auto-pilot : HDG, ALT	ON
[] Airbrake Lever	CHECK UP (press [:] key)

[] Request Take Off Clearance



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Pushback Checklist (if parked at a gate)

- ☐ **Pushback** (press **SHIFT+P**, then 1 for tail-left or 2 for tail-right, then press **SHIFT+P** to stop)

Take-off Checklist

- ☐ **TO/GA Mode** **IF REQUIRED ENGAGED**
(press **CTRL+SHIFT+R**)
- ☐ **Thrust lever** **ADVANCE SMOOTHLY TO 100% N1**
(press **F2** or **F3** as necessary)
- ☐ **Takeoff Thrust** **VERIFY CORRECT VALUE FOR TAKE OFF**
- ☐ **Brakes** **RELEASE**
- ☐ **V1 (decision) =** **137 KIAS**
(see the Reference page of the Kneeboard)
- ☐ **Vr (rotate) =** **Magenta circle on PFD**
(see the Reference page of the Kneeboard)
- ☐ **Pitch** **10 deg. nose up**
- ☐ **V2 (safety speed) =** **160 KIAS**
(see the Reference page of the Kneeboard)
- ☐ **At Positive Climb Rate** **Touch Brakes**
- ☐ **Landing Gear** **RETRACT** (press **G** key)
- ☐ **Auto-brake** **OFF**
- ☐ **Anti-skid** **OFF**
- NOTE:** Flaps and slats will be automatically retracted.
- ☐ **At 1,000' AGL or 180 KIAS** **RETRACT Flaps to Pos. 1**
(press **F6** as necessary)
- ☐ **At 210 KIAS** **RETRACT Slats**
(press **F6** as necessary)

Climb-out Checklist

- ☐ **Throttle** **AS REQUIRED**
- ☐ **Trim for** **250 KIAS / 1800 fpm**
- ☐ **Auto-pilot / Auto-throttle** **CHECK and ACTIVATE**
- ☐ **Autopilot IAS & VS** **SET or VNAV**
(see the Reference page of the Kneeboard)
- ☐ **ATC** **AS REQUIRED**
- ☐ **Accelerate to Climb Speed** (see the Reference page of the Kneeboard)

0 to 10,000 ft 250 KIAS / 2,000 then 3,000 to 3,800 ft/mn

At 10,000 feet :

- ☐ **Fasten Seat Belts** **OFF**
- ☐ **No Smoking Sign** **OFF** (Option)
- ☐ **Landing Lights** **OFF**

10,000 to 18,000 ft 290 KIAS / 2,200 to 3,000 ft/mn

- ☐ **At Transition Altitude (FL180)** **Reset Altimeter STD**
(1013.25)

18,000 to 25,000 ft 310 KIAS / 2,000 to 3,000 ft/mn

25,000 to 28,000 ft M 0.74 / 1,700 to 2,300 ft/mn

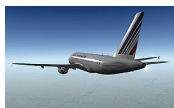
Above 28,000 ft M 0.77 / 1,100 to 1,500 ft/mn

Cruise Checklist (above FL 180)

- ☐ **Thrust Levers** **AS REQUIRED**
(press **F2** or **F3** as necessary)
- ☐ **Trim** **AS NECESSARY**
(press **Num Pad 6** or **Num Pad 7** as necessary)
- ☐ **Accelerate to Cruise Speed** **M 0.77 / M 0.80**
(see the Reference page of the Kneeboard)
- ☐ **Engine + Instruments** **CHECK**
- ☐ **Fuel Quantity** **CHECK**
- ☐ **Radios** **TUNED and SET**
- ☐ **Auto-pilot** **CHECK and SET**
- ☐ **Lights** **AS REQUIRED**

Descent Checklist

- ☐ **Atis / Airport Information** **CHECK**
- ☐ **Altimeter** **CHECK**
- ☐ **Radios** **SET**
- ☐ **De-Ice** **AS REQUIRED**
- ☐ **Fuel Quantity and Balance** **CHECK**
- ☐ **Flaps / Landing Gear** **CHECK UP**
- ☐ **Avionics** **SET**
(press **SHIFT+2** to display radio stack)
- ☐ **Approach Procedure** **REVIEW**
- ☐ **Check Weather** (ATIS, Flight Services)



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- [] Descent Speed** *(see the Reference page of the Kneeboard)*
- 39,000 to 25,000 ft M 0.72 max. / 2,500 to 3,000 ft/mn
- 25,000 to 18,000 ft 290 KIAS, / 2,500 to 2,000 ft/mn

At transition altitude FL180	Set altimeter to local QNH
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- 18,000 to 10,000 ft 280 KIAS / 1,800 ft/mn
- 10,000 ft to approach 250 KIAS / 1,500 ft/mn
- Approach to ILS 225 KIAS / 1,200 ft/mn interception max.
- [] Airbrakes** **AS REQUIRED**
- [] Autopilot** **AS REQUIRED**
- [] Thrust Lever** **AS REQUIRED**
(press F2 or F3 as necessary)

Approach Checklist

At Localizer Level Flight :

- [] Fasten Seat Belts** **ON**
- [] No Smoking Sign** **ON**
- [] APU** **ON / CHECK RUN**
- [] APU Bleed Valve Pressure** **READ**(on BLEED page)
- [] APU Gen** **ON / CHECK VOLTS**
- [] X FEED Rotative Switch** **AUTO**
- [] Avionics + Radios** **SET**
- [] Auto-Spoilers** **ARM**
- [] Auto-brake** **SET**
- [] Speed** **200 KIAS**
- [] Speed Establish** **Symbol 1 on PFD**
(see the Reference page of the Kneeboard)
- [] Flaps** **Pos. 1 + F** *(press F7 key)*
- [] Speed: Establish** **Symbol 2 on PFD**
(see the Reference page of the Kneeboard)
- [] Speed** **190 KIAS**
- [] Flaps** **Pos. 2** *(press F7 key)*
- [] Speed: Establish** **Symbol 3 on PFD**
(see the Reference page of the Kneeboard)
- [] Landing Gear** **DOWN** *(press G key)*
- [] Landing lights** **ON**
- [] Speed** **180 KIAS at LOC interception**

Turning toward runway :

- [] FLAPS** **Pos. 3** *(press F7 key)*
- [] Autopilot ILS** **APR if required**

Final Glide slope Descent :

- [] Speed Establish** **Symbol 4 on PFD**
(see the Reference page of the Kneeboard)
- [] Speed** **Vref at SLOPE intersection**
- [] Flaps** **Pos. 4** *(press F7 key)*
- [] Parking Brake** **VERIFY OFF**
- [] Anti-skid** **ON**
- [] Auto-brake** **ON**
- [] De-Ice** **AS REQUIRED**
- [] Airspeed** **Vref** *(green point on ASI)*

Landing Checklist

- [] Landing Gear** **CHECK DOWN**
- [] Landing Speed** **VRef**
(green point on ASI) (see the Reference page of the Kneeboard)

Manual landing

- [] Autopilot** **APR** **OFF above decision height**

Or Auto-flare If Gross Weight < 55,500 kg, Speed = Vref (green point on ASI) and mode APR selected on Autopilot

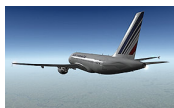
- [] Auto-pilot** **APR** **CHECK ENGAGED**
- [] Airspeed** **Vref** *(green point on ASI)*
- [] Thrust lever** **At 20 feet, SET to ZERO**

After touchdown

- [] Auto-pilot : Auto-throttle, SPEED, APR, ALT, HDG** **DESENGAGED**
- [] TOGA** **OFF**
- [] Air-brakes** **UP** *(press [:] key)*
- [] Thrust Levers** **REVERSE** *(press F2 until Reverse)*
- [] at 60 kts** **Reverse Thrust OFF**
- [] Spoilers** **VERIFY EXTENDED**
- [] Brakes** **AS REQUIRED**

Landing-roll Checklist

- [] Thrust Levers** **IDLE** *(press F2 or F3)*
- [] Auto-throttle** **CHECK OFF**



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<input type="checkbox"/> Autopilot	CHECKED DISENGAGED	<input type="checkbox"/> Anti-skid	OFF
<input type="checkbox"/> Brakes	AS NECESSARY (press PERIOD [:] key)	<input type="checkbox"/> Auto-brake	OFF
<input type="checkbox"/> Airbrakes	DOWN (press [:] key)	<input type="checkbox"/> Master Starter Switches 1 & 2	OFF
Taxi To Ramp		<input type="checkbox"/> Engine Starter Switch	MODE NORM
<input type="checkbox"/> Strobe Light	OFF	<input type="checkbox"/> ENG Fuel Pumps 1 & 2	OFF
<input type="checkbox"/> Flaps	UP	<input type="checkbox"/> Fuel X FEED	CLOSED
<input type="checkbox"/> Spoilers	RETRACTED	<input type="checkbox"/> ENG1 & 2 Bleed Valve	CLOSED
<input type="checkbox"/> Auto-brake	OFF	<input type="checkbox"/> X FEED Rotative Switch	SHUT
<input type="checkbox"/> Taxi Lights	ON	<input type="checkbox"/> ENG1 & 2 Hydraulic Pump	OFF
<input type="checkbox"/> Landing Lights	OFF	<input type="checkbox"/> HYD ELEC PUMP	OFF
<input type="checkbox"/> APU GEN	OFF	<input type="checkbox"/> FLT CTL ELAC1, SEC1, SEC1	OFF
<input type="checkbox"/> APU Bleed Valve	CLOSED	<input type="checkbox"/> FLT CTL ELAC2, SEC2, SEC3, FAC3	OFF
<input type="checkbox"/> APU	OFF	<input type="checkbox"/> ADIRS	OFF
<input type="checkbox"/> Speed	Max. 20 kts	<input type="checkbox"/> No Smoking	OFF
<input type="checkbox"/> Transponder	1200 / OFF	<input type="checkbox"/> Fasten Seat Belt	OFF
<input type="checkbox"/> Elevator Trim	TAKEOFF SETTING	<input type="checkbox"/> Panel Light	OFF
<input type="checkbox"/> Lights	AS REQUIRED	<input type="checkbox"/> BATT	OFF
Shutdown Checklist		Securing Aircraft	
<input type="checkbox"/> Parking Brake	SET	<input type="checkbox"/> Parking Brake	Verify SET
<input type="checkbox"/> Throttle	IDLE	<input type="checkbox"/> Throttle	Verify IDLE
<input type="checkbox"/> Passenger Signs	OFF	<input type="checkbox"/> All Switches	Verify OFF
<input type="checkbox"/> Pitot Heat / De-Ice	OFF		
<input type="checkbox"/> Taxi Lights	OFF		
<input type="checkbox"/> Nav Lights	OFF		
<input type="checkbox"/> Beacon / Recogn. Lights	OFF		
<input type="checkbox"/> F/D	OFF		

EMERGENCY PROCEDURES

Engine Fire

<input type="checkbox"/> ENG Fire Light	ILLUMINATED
<input type="checkbox"/> ENG Extinguisher	DISCHARGE
<input type="checkbox"/> ENG Fuel Pump	OFF
<input type="checkbox"/> ENG Bleed Valve	CLOSED
<input type="checkbox"/> Engine Starter Switch	OFF
<input type="checkbox"/> HYD Pump	OFF
<input type="checkbox"/> ENG GEN	OFF
<input type="checkbox"/> Engines X Feed	OPEN

If X FEED Rotative Switch is on AUTO, APU will automatically be run and APU Bleed Valve and CrossBleed will be automatically open.

<input type="checkbox"/> APU	ON
<input type="checkbox"/> APU Bleed Valve	OPEN
<input type="checkbox"/> X FEED Rotative	APU

Switch

<input type="checkbox"/> APU GEN	ON
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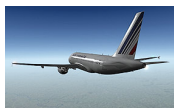
APU Fire

<input type="checkbox"/> APU Fire Light	ILLUMINATED
<input type="checkbox"/> APU Extinguisher	DISCHARGE
<input type="checkbox"/> APU	OFF
<input type="checkbox"/> APU GEN	OFF
<input type="checkbox"/> APU Bleed Valve	CLOSED
<input type="checkbox"/> X FEED Rotative Switch	AUTO

Engine Failure

If X FEED Rotative Switch is on SHUT

<input type="checkbox"/> APU	ON
<input type="checkbox"/> APU Bleed Valve	OPEN



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<input type="checkbox"/> APU GEN	ON
<input type="checkbox"/> X FEED Rotative Switch	APU
<input type="checkbox"/> ENG Fuel Pump	OFF
<input type="checkbox"/> Engine Starter Switch	OFF

<input type="checkbox"/> ENG Bleed Valve	CLOSED
<input type="checkbox"/> HYD Pump	OFF
<input type="checkbox"/> ENG GEN	OFF
<input type="checkbox"/> Engines X Feed	OPEN