

Interior check

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1. Harness and rudder pedals..... SECURE / ADJUST
2. Ejection control handle..... CLEAR
3. OBOGS control switch..... OFF
4. OXY flow knob..... OFF
5. OBOGS BIT plunger..... VERIFY UNLOCKED AND FULLY EXTENDED

Left console

1. Circuit breakers (4)..... IN
2. Manual canopy handle..... STOWED
3. Nuclear weapon consent switch..... ENABLE
4. MC and HYD ISOL..... NORM
5. OBOGS control switch..... OFF
6. COMM 1 / IFF ANT SEL switches..... AUTO / BOTH
7. COMM panel..... SET
8. VOL panel..... SET
9. APU switch..... OFF
10. FCS GAIN switch..... NORM
11. PROBE switch..... RETRACT
12. EXT TANKS switches..... NORM
13. DUMP switch..... OFF
14. INTR WING switch..... NORM
15. GEN TIE CONTROL switch..... NORM (guard down)
16. EXT LT panel..... SET
17. Throttles..... OFF
18. PARK BRK..... SET
19. LDG/TAXI LIGHT switch..... OFF
20. ANTI SKID switch..... ON (Land) / OFF (Carrier)
21. FLAP switch..... FULL
22. SELECT JETT knob..... SAFE
23. LDG GEAR handle..... DOWN
24. CANOPY JETT handle..... FORWARD

Instrument panel

1. Master arm switch..... SAFE
2. FIRE and APU FIRE warning lights..... NOT PRESSED
3. L/R DDI, HI/MPCD, and HUD..... OFF
4. Altitude source..... BARO / RDR as req'd
5. Attitude source..... AUTO
6. Comm 1 and 2 knobs..... OFF
7. ADF switch..... OFF
8. ECM mode..... OFF
9. Dispenser select knob/dispenser switch..... OFF
10. Auxiliary release switch..... NORM
11. Clock..... CHECK AND SET
12. Standby attitude reference indicator..... CAGE/LOCK
13. IR coolant switch..... OFF
14. Spin recovery switch..... GUARD DOWN/OFF

Right Console

- 1. Circuit breakers (4) IN
- 2. Arresting hook handle UP
- 3. Wing fold handle SAME AS WING POSITION
- 4. AV COOL NORM
- 5. Radar altimeter OFF
- 6. L / R generator switches NORM
- 7. Battery switch OFF
- 8. ECS system SET
 - a. MODE switch AUTO
 - b. CABIN TEMP knob 10 o'clock
 - c. CABIN PRESS switch NORM
 - d. BLEED AIR knob NORM / DOWN
 - e. ENG ANTI ICE switch OFF
 - f. PITOT ANTI ICE switch AUTO
- 9. DEFOG handle MID RANGE
- 10. WINDSHIELD switch OFF
- 11. Interior lights AS DESIRED
- 12. Sensors OFF
- 13. KY-58 panel SET
- 14. AN/AWB-3(V) monitor control SET
- 15. NVG container SECURE/NVG STOW (if required)

Startup

Engine Start

- 1. Battery switchON (if not previously ON)
- 2. Fire warningTEST A and B
 - a. Check APU ACCUM caution lightOFF
- 3. APU switchON (READY light within 30 seconds)
- 4. Engine crank switchR
- 5. Right throttleIDLE (15% rpm minimum)
- 6. GPWS Voice AlertsCHECK
- 7. DDI, HI/MPCD, HUD, UFC avionics, radar altimeterON
- 8. HMD switchON
- 9. EMI/IFEICHECK
 - a. After engine start, it may be necessary to advance power above IDLE to get the ECS turbine started.

Ground idle - 402 engine

- N263 – 70%
- EGT190° – 590°C
- Fuel flow420 – 900 pph
- Nozzle73 – 84%
- Oil pressure (warm oil)45 – 100 PSI
- 10. Bleed air knobCYCLE THRU OFF TO NORM
 - The bleed air shutoff valves close during the fire warning test and the bleed air knob must be cycled thru OFF to NORM with ac power on to reset the valves.
- 11. Warning and caution lightsTEST
 - For a crossbleed start, ensure APU switch is OFF and a minimum of 80% rpm and 1,900 pph fuel flow
- 12. Engine crank switchL
- 13. Left throttleIDLE (15% RPM minimum)
- 14. Engine crank switchCHECK OFF
- 15. EMI/IFEICHECK
- 16. External electrical powerDISCONNECT (if required)
- 17. Left DDIFCS
- 18. Right DDIBIT
- 19. HMPCDHSI (map off)

Taxi & Takeoff		
Cockpit Setup		
1.	Waypoint zero and magnetic variation.....	CHECK
2.	INS knob.....CV, GND (parking brake set) or IFA (functioning GPS)	
3.	RADAR knob.....	OPR
4.	WING FOLD.....	SPREAD AND LOCK
5.	FCS RESET button.....	PUSH
<i>If wings are folded, verify aileron X's present</i>		
<u>If no reset</u>		
a.	T.O. trim button.....	PUSH (note TRIM advisory)
b.	FCS exerciser mode.....	INITIATE
<i>Lift FCS BIT consent switch and push FCS RESET button simultaneously.</i>		
<u>If still no reset</u>		
c.	FCS circuit breakers.....	PULL 4 CHANNELS
d.	Wait 10 seconds	
e.	FCS circuit breakers.....	RESET
f.	FCS RESET button.....	PUSH
6.	FLAPS.....	AUTO
7.	FCS exerciser.....	Hold paddle and FCS RESET
8.	FLAPS.....	HALF
9.	FCS BIT.....	PERFORM (Hold paddle and BIT pushtile)
10.	TRIM.....	CHECK
<i>Check pitch, roll, and yaw trim for proper movement and then set for takeoff.</i>		
11.	T.O. trim button.....	PRESS UNTIL TRIM ADVISORY DISPLAYED
12.	FLAPS.....	AUTO
13.	Controls.....	CHECK ($\pm 1^\circ$ tolerance)
a.	Control stick.....	CYCLE
	Full aft.....	24 NU stabilator
	Full fwd.....	3 NU
	R/L Aileron.....	CHECK 20 units diff stab
		CHECK differential trailing edge flaps
b.	Flaps.....	HALF
c.	Rudder pedals.....	CYCLE 30° left and right
14.	Trim.....	SET FOR TAKEOFF
	Shore.....	12°
	44,000 lbs and below.....	16°
	45,000 - 48,000 lbs.....	17°
	49,000 lbs and above.....	19°
<i>If takeoff trim is not set, full leading edge down stabilator movement may not be available and takeoff distance will increase.</i>		
15.	Refueling probe, launch bar, speed brake, arresting hook, pitot heat.....	CYCLE
<i>Launch bar optional for shore ops.</i>		
16.	OBOGS control switch.....	ON
17.	OXY flow knob.....	ON
18.	APU.....	VERIFY OFF
19.	Fuel.....	BIT/SET BINGO
20.	Altimeter.....	SET
21.	Radar altimeter.....	ON / SET
22.	BIT.....	NOTE DEGD/FAIL
23.	Sensors (IFF / TCN / ILS / D/L).....	SET, as req'd
24.	STORES profiles (MODE, MFUZ, EFUZ, DRAG, MULT).....	SET, as req'd

- 25. Countermeasures.....SET, as req'd
- 26. COMM 1 / COMM 2.....SET FREQ, as req'd
- 27. Standby attitude indicator.....UNCAGE, SET
- 28. OBOGS system.....CHECK
- 29. Mask on, OBOGS DEGD caution.....OFF
 Momentarily press and release the OBOGS monitor pushbutton to verify
 - a. MASTER CAUTION.....ON
 - b. OBOGS DEGD caution.....ON
 - c. Helmet caution tone.....ON*Continued operation and use of the OBOGS system with an OBOGS DEGD caution may result in hypoxia.*
- 30. Canopy.....FULL OPEN or FULL CLOSED during taxi
- 31. INS knob.....NAV
- 32. Left DDI.....HUD
- 33. Right DDI.....CHKLST
- 34. HMPCD.....HSI, SET WPT

Taxi

- 1. Exterior lights.....CHECK ON, as req'd
- 2. LDG/TAXI LIGHT switch.....ON, as req'd
- 3. Wheel brakes.....CHECK
- 4. Nosewheel steering.....CHECK

Before takeoff

- 1. Canopy.....CLOSED
- 2. IFF.....CHECK ON
- 3. INS.....CHECK
- 4. Parking brake handle.....FULLY STOWED
- 5. Speed brake.....OFF
- 6. MENU TAKEOFF checklist.....COMPLETE
 - a. CONTROLS
 - b. WINGS
 - c. TRIM
 - d. FLAPS
 - e. HOOK
 - f. HARNESS
 - g. WARN LIGHTS
 - h. NWS LO
 - i. SEAT ARM
- 7. Engines.....MIL CHECK (if desired)

Military power - 402 engine

- N2.....90 – 102%
- EGT.....715° – 880°C
- Fuel flow.....6000 – 12500 pph
- Nozzle.....0 – 48%
- Oil pressure (warm oil).....95 – 180 psi
- Afterburner.....CHECK if desired

After takeoff

- 1. Landing gear.....UP
- 2. Flaps.....AUTO

Enroute / Cruise

Enroute

- 1. COMM 1 / COMM 2.....SET FREQ, As req'd
- 2. Weapons.....CONFIGURE, as req'd
- 3. Countermeasures.....PROGRAM, as req'd
- 4. DISPENSER.....ON / BYPASS, as req'd
- 5. ECM.....STBY / REC / XMT, as req'd
- 6. RWR.....ON

10,000 feet

- 1. Cockpit altimeter.....CHECK
- 2. Fuel transfer.....CHECK
- 3. Radar altimeter low alt/warning setting.....CHECK/SET

Cruise check

- 1. Cabin pressurization/temperature.....MONITOR
Aircraft altitude.....Cabin altitude
30,000 ft.....10,000 - 12,000 ft
40,000 ft.....15,000 - 17,000 ft

Fence In / Fence out

Fence In

- 7. COMM 1 / COMM 2.....SET FREQ, Call flight
- 8. Exterior lights.....OFF
- 9. Fuel.....CHECK, Set BINGO
- 10. SELECT JETT.....SET, Jettison as req'd
- 11. MASTER.....ARM, A/G / A/A, as req'd
- 12. Weapon.....Select / config, as req'd
- 13. Altimeter source.....BARO/RAD, as req'd
- 14. Left DDI.....EW, Box HUD
- 15. Right DDI.....ATTN RDR, DCLTR
- 16. HMPCD.....SA, Config as req'd
- 17. DISPENSER switch.....ON / BYPASS, as req'd
- 18. ECM.....REC / XMT, as req'd
- 19. RWR.....ON, as req'd
- 20. HMD.....ON, as req'd
- 21. RAD ALT.....SET, as req'd

Fence Out

- 22. COMM 1 / COMM 2.....SET FREQ, Call flight
- 23. Exterior lights.....ON, as req'd
- 24. SELECT JETT.....SAFE
- 25. MASTER.....SAFE
- 26. L/R DDI, HMPCD.....As req'd
- 27. DISPENSER switch.....ON / BYPASS, as req'd
- 28. ECM.....STBY
- 29. HMD.....As req'd

Approach / Landing

Descent / penetration

- 1. Engine anti-ice.....AS DESIRED
 - 2. Pitot heat.....AUTO
 - 3. Defog handle.....HIGH
 - 4. Windshield anti-ice/rain switch.....AS DESIRED
 - 5. Altimeter setting.....CHECK
 - 6. Radar altimeter.....SET AND CHECK
 - 7. HUD.....NAV Master Mode
- Compare with standby flight instruments and standby compass
- 8. Altimeter source.....BARO / RAD, as req'd
 - 9. NAVAIDS.....cross check
 - 10. ARA-63 (ILS).....ON AND CHANNEL SET
 - 11. IFF.....AS DIRECTED
 - 12. Weapons/sensors.....AS REQUIRED

Approach

- 1. MENU LANDING checklist.....COMPLETE
 - a. WHEELS
 - b. FLAPS
 - c. HOOK
 - d. ANTI-SKID
 - e. HARNESS
 - f. DISPENSER

After landing

- 1. Ejection seat.....SAFE
- 2. Landing gear handle mechanical stop.....FULLY ENGAGED
- 3. Flap switch.....AUTO
- 4. Speed brake.....OFF
- 5. T.O. trim button.....PUSH (note TRIM advisory)
- 6. Canopy.....FULL OPEN or FULL CLOSED

Shutdown

Before engine shutdown

- 1. Parking brake SET
- 2. BIT Display RECORD DEGD
- 3. BLIN codes RECORD
- 4. Radar maintenance codes NOTE IF PRESENT
- 5. INS post flight update PERFORM
- 6. INS OFF (10 sec pre-shutdown)
- 7. Standby attitude reference indicator CAGE/LOCK
- 8. Sensors, radar, avionics and VTRS OFF
- 9. Comm 1 and 2 OFF
- 10. Exterior and interior lights OFF
- 11. OBOGS control switch OFF
- 12. OXY flow knob OFF
- 13. Canopy OPEN

Engine shutdown

- 1. Brake gauge 3,000 PSI
- 2. Nosewheel steering DISENGAGE
- 3. Flaps FULL
- 4. Left throttle OFF
- 5. Monitor engine rpm. As N2 rpm decreases below 7%, gently pump the stick approximately ± 1 inch fore and aft at approximately 2 cycles per second, decreasing hydraulic pressure on shutdown engine below 800 psi. Ensure system pressure on operating engine remains above 1500 psi. (Pressure must remain below 800 psi on shutdown engine for valid test.)
- 6. Pump stick while monitoring FCS page for FCS X's and/or BLIN codes for 10 seconds after system pressure on shutdown engine drops below 800 psi. Record if present.
 - a. BLIN code 63 and/or rudder X's indicate a malfunctioning rudder switching valve and further maintenance action is required.
 - b. BLIN code 66 and/or aileron X's indicate a malfunctioning aileron switching valve and further maintenance action is required.
- 7. If only BLIN code 67 and/or LEF X's are present, attempt FCS RESET. Record results. (Recurring BLIN code 67 and/or LEF X's after FCS RESET indicates a malfunctioning LEF switching valve and further maintenance action is required.)
- 8. DDI, HI/MPCD, and HUD OFF
- 9. Right Throttle OFF
- 10. Battery switch OFF (when amber FLAPS light illuminates)