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Annex1: Blank page for notes

NOTE:

Refer to Cockpit Interior check Rev 2006 for placing all switches before entering the aircraft

VERIFY CHECK

The following items are important switches that if not correctly positioned, could cause a safety hazard and/or improperly operated systems during engine start.

Please refer to cockpit / interior checklist for a full cockpit check.

1. FUEL MASTER switch ON – Guard down

2. ENGINE FEED knob NORM

EPU switch
 ENG CONT switch
 NORM – Guard down
 PRI – Guard down

5. THROTTLE OFF

6. LD GEAR handle Confirm Down and locked

7. HOOK switch UP8. MASTER ARM switch OFF9. AIR SOURCE knob NORM

BEFORE ENGINE START

1. MAIN PWR switch **BATT**:

Verify FLCS RLY light ON

2. FLCS PWR TEST switch TEST and hold

Verify lights ON

ACFT BATT TO FLCS

FLCS PMG FLCS PWR (4)

Verify FLCS RLY light OFF

3. FLCS PWR TEST switch Release

4. MAIN PWR Switch MAIN PWR:

Verify lights ON ELEC SYS

HYD/OIL PRESS

FLCS RLY

SEC

ENGINE

5. EPU GEN & EPU PMG lights Confirm OFF

6. Communications All set to assigned UHF Backup
7. Canopy Closed – locked (spider)- no light

8. Chocks Confirm in place

9. COM1 & COM2 Vol knob Set both CW (turns radio ON)

10. Backup UHF radio Establish comms if required

Note:

To prevent possible depletion of battery power, do not allow MAIN PWR switch to remain in BATT or MAIN PWR for more than 5 minutes without engine running.

STARTING ENGINE (GE129)

1. JFS START 2

check JFS light ON within 30 seconds
Advance to IDLE at 25% RPM minimum.

THROTTLE Advance to IDLE at 25% RPM minimum.
 Idle Detent Toggle (Unless idle/cutoff code enabled in bmsconfig)

4. SEC caution light Check OFF around 20% RPM

5. FTIT Monitor:

Rapid increase past 750°= HOTSTART

6. ENGINE warning light OFF at 60% RPM

7. JFS Switch Confirm OFF (snaps OFF at 55% RPM)

8. HYD/OIL PRESS light OFF between 15 and 70% RPM

Note:

Engine light-off occurs within 10 seconds after throttle advance and is indicated by an airframe vibration and an increase in RPM followed by an increase of FTIT.

ENGINE CHECK AT IDLE

1. FUEL FLOW 700 – 1700 PPH

2. OIL pressure MIN 15 PSI
3 NO7 POS Greater than 94%

3. NOZ POS Greater than
4. RPM 62 – 80%
5. FTIT Below 650°C

6. HYD PRESS A&B 2850 - 3250psi - around 12 O'clock position
7. Throttle cutoff release Check – Attempt to retard the throttle to OFF

without depressing the cutoff release.

8. Anti-Ice Switch ON

AFTER ENGINE START

1. Gear lights Confirm 3 greens

2. FLCS panel: FLCS reset (FLCS light & PFD off)

3. TEST switch panel check:

- PROBE HEAT switch: PROBE HEAT: check caution light OFF

TEST: check caution light flashes

OFF

- Fire and Overheat Detect Button: TEST & HOLD

- Check ENG FIRE Warning light ON

- Check OVER HEAT caution light

- Check MASTER CAUTION light ON

- MAL&IND LTS button: DEPRESS and HOLD

Proper VMS operation is verified by the presence of each word in priority sequence.

4. EPU CHECK

a. Request EPU PIN removal from the Ground ATC menu

b. EPU GEN and EPU PMG lights: Confirm OFF

c. O²: 100%

d. Toe brakes: Engage
e. EPU switch: OFF
f. EPU switch: NORM
a. THROTTLE: 80%

h. EPU/GEN TEST switch: EPU/GEN and hold.

Check lights: EPU AIR light ON

EPU GEN and EPU PMG light OFF

FLCS PWR lights ON

EPU RUN light ON within 5 seconds

i. EPU/GEN TEST switch: Release (OFF)

j. THROTTLE IDLE k. O²: NORMAL

If no run light within 10 sec, reinitiate test with throttle at IDLE +15%

5. AVIONICS POWER Panel

a. MMC (FCC) switch:
b. ST STA (SMS) switch:
c. MFD switch:
d. UFC switch:
e. DL switch:
ON

f. EGI: Select ALIGN NORM after display visible

on the DED

6. SNSR PWR panel:

a. LEFT HDPT switch: As requiredb. RIGHT HDPT switch: As required

c. FCR switch: FCR (initiates FCR PO BIT)

d. RDR ALT switch STBY

7. SEAT Adjust

8. HUD Panel: As desired

Set HUD SYM WHEEL ON

9. IFF PANEL CNI (C&I) knob: UFC

IFF MASTER: STBY

10. DTC: Load (always load the DTC prior to setting up

the UFC subpages)

11. UFC radio: Set COM1 & COM2 frequency as briefed.

ATIS: Listen to departure airbase VHF ATIS freq

Clear (MFD TEST page) 12. MFL:

13. FLIGHT CONTROLS: CYCLE & CHECK

14. FLCS BIT: Initiate and monitor.

> Position BIT switch to BIT. The RUN light on FLCP illuminates. At successful completion of BIT (approximately 45seconds) the RUN light goes OFF, the BIT switch returns to OFF and the FAIL light and FLCS warning light remain OFF. Caution & WARNING lights might be displayed during BIT test. A BIT pass message appears on the FLCS MFD page

Note:

If the FLCS BIT reports a failure through the FLCS warning light and the FAIL light on the FLCP, the failure cannot be reset. The BIT must be reinitiated. In this case, the RUN light and the FAIL light are simultaneously illuminated for the first steps of the BIT, after which the FAIL light goes OFF unless BIT detects a subsequent failure.

15. DBU CHECK (AFTER FLCS BIT completed)

a. DIGITAL BACKUP switch: **BACKUP**

b. DBU ON warning light: Verify ON & WARN displayed in HUD

All surfaces respond normally c. Operate controls:

d. DIGITAL BACKUP switch: OFF

e. DBU ON warning light: Verify OFF

16. TRIM CHECKS

a. TRIM AP DISC switch: DISC

b. Stick TRIM buttons: Activate in ROLL and PITCH

No control surface, no indicator motion

c. TRIM AP DISC switch: NORM

d: Stick TRIM buttons: Check and centre

Control surface & indicator motion

e. Rudder trim check: YAW TRIM knob.

Check and centre

17. AIR REFUEL CHECKS

a. AIR REFUEL switch: OPEN

CHECK RDY light ON, DSC light OFF

Depress b. A/R DISC button:

DSC light ON; RDY Light OFF

then 3sec later, RDY light ON, DSC light OFF

c. AIR REFUEL switch: CLOSE

18. SEC check:

May be delayed until BEFORE TAKEOFF

a. THROTTLE: IDLE

b. TOE BRAKE: ENGAGE, no PARKING BRAKES

c. ENG CONT switch: SEC

d. SEC Caution Light: ON - Nozzle: Less than 5%

e. RPM: Stabilized f. THROTTLE: Snap to MIL

then snap to IDLE when RPM reaches 85%.

Check for normal indication and smooth

operation.

g. NOZ POS: 10% or less within 30 sec after selecting SEC.

h. ENG CONT switch: PRI i. SEC Caution Light: OFF

j. NOZ POS: Greater than 94%

19. AVIONICS (Program as required and verify (manual or DTC))

a. Threat Warning Aux: ON

b. CMDS

RWR switch:

JMR switch:

CHAFF cmds switch:

FLARE cmds switch:

ON

ON

MODE knob: Set as required PGRM knob: Set as required

c. ECM switch: Set as required (OPR)

d. Threat Warning prime

Handoff Diamond Float mode (short press)

MSL Launch Press to test SYS TEST Press to test

e. MFD

S-Jettison: Preset Jettison and exit S-J mode

Master Mode: Preset SMS as required for each MM

f. AUDIO

COM1&2 Volume SET & check MSL /Threat Volume SET & check ILS Volume knob SET & check

Intercom volume SET & check (all headset sounds)

g. DED - UFC

ALOW – MSL – BINGO: Check

CRUS – TACAN - IDM: M-Sel TOS and Check Bullseve: SET & Mode Selected.

20. FUEL QTY SEL knob Check

The following Values are based on JP-4 or JP5/8

a. Totalizer qty: Check according to flight planning.

b. TEST: FWD/AFT fuel low lights ON

Tot: 6000 lbs

A/L - F/R: 2000 lbs

c. NORM: A/L: 2675/2810 lbs

F/R: 3100/3250 lbs

d. RSVR: both 460/480 lbs e. INT WING: both 525/550 lbs

f. EXT WING: both 2300/2420 lbs (if 370-gallon carried)

both 3750/3925 lbs (if 600-gallon carried)

g. EXT CTR: F/R: 1800/1890 lbs

A/L: 0 lbs

h. FUEL QTY SEL: NORM

21. EPU FUEL QTY: 95 – 102%

22. ANTI-ICE CHECK

a. Engine stabilized in IDLE for 1 minute with ANTI-ICE ON

b: ANTI-ICE switch: OFF: FTIT decreasing at least 10°C within 15 sec

c: ANTI-ICE switch: AUTO or ON as required

23. OBOGS CHECK (At least 2 minutes after engine start)

a. OBOGS BIT switch: BIT

b. VERIFY LIGHT: OXY LOW (right brow) ON for 10sec then OFF

c. Pressure: CHECK 25-40 PSI d. Mode Lever: PBG/ON (as required)

e. Diluter lever: NORM f. EMERGENCY lever g. FLOW indicator Check

24. MPO CHECK (may be delayed until EOR and done with wingman)

a. Push stick forwardb. Depress and hold MPOCheck stabilizers positionsCheck stab further angle

c: Release MPO switch Check stabilizers in original position.

25. SPD BRK switch: Cycle

(may be delayed until EOR and done with wingman)

BEFORE TAXI

1. Taxi Lights ON

Drift Co Switch Set Norm

3. INS/EGI Check Check ALIGN flashes in HUD

4. INS/EGI switch NAV position

5. Aircraft Lights As SOP (AC ON - Wing/fus: ON - FLASH)

6. QNH Confirm QNH received from lead or ATC

7. Radio Remove chocks

Get clearance to taxi from ATC Ground

Note 1: Beware of spending excessive time checking the aircraft. Always refer to your next TOS.

Note 2: Be sure the AUX flag disappears from the ADI before scrambling. EGI will be accurate 90 seconds after initial alignment (AUX flag OFF)

Note 3: Excessive use of wheel brakes and/or differential braking is to be avoided. Maximum safe taxi speed on ramps is 20Kts. (15kts in turns)

Max 80% RPM

TAXI

NoseWheel Steering Check ON

Seat Armed – Caution light OFF

3. Wheelbrakes Test

4. IDM Check in sequence

Caution:

Pods (TGP) should be stowed for Taxi & Take-off

IF CHECKS

- 1. Pressure Instruments
 - AIRSPEED: Zero
 - ALTIMETER: Set QNH
 - VVI: Zero.
- 2. Gyroscopic Instruments
 - TURNS: Needle/balls HSI Following
- 3. Navigation Instruments
 - NAV: Check correct bearings for WAYPOINTS
 - TACAN: Set TCN channel and Course for Departure
- 4. Miscellaneous:
 - HUD Compass tape Track heading change
 - HSD Compass tape Track heading change
 - HSI Compass tape Track heading change
 - STDBY Compass Track heading change
 - Clock and Chrono: Check and Reset
 - Engine instruments: Check

BEFORE TAKE OFF

1 PROBE HEAT switch PROBE HEAT

2. ALT FLAPS switch NORM 3. MANUAL TF FLY UP switch **ENABLE**

4 Trims Check PITCH and YAW centred,

ROLL as required

Check (DED) & NORM (IFF panel) 5. IFF

6. ENG CONT switch PRI

7. Speedbrake Check closed

8. Stores Config Switch Cat1/Cat3 as required

9. GND JET ENABLE switch As required As required 10 TFR / FLIR

Check feeding then NORM 11. External Tanks

Cvcle 12. Flight Controls

Check PSI (min 15) 13. OIL pressure

14. All warning & caution lights Check OFF

15. Take off speed Commit to memory

LINE UP

1. UHF Tower clearance received

2. LANDING LIGHT ON Radar Altimeter Set ON 4. VISOR Down

5. HSI Check on Runway heading

NORMAL TAKE OFF

2 Toe brakes HOI D

3. RPM 85-90% Check gauges & lights

Oil pressure increase - nozzle closing

Engine instruments in the green NO CAUTION / NO WARNING

4. Brakes Release

5. Throttle Full MIL, AB as required 6. NWS Disengage at 70 kts As computed 7 Rotation

(VSI + Alt) Gear Up 8. Positive Climb

- Apply power smoothly, note computed speeds for 8-12 degrees pitch rotation as briefed.
- Do not exceed 14 degrees pitch in rotation.
- Insure LG is up and locked before exceeding 300 knots.
- Since TEF and LG retract at the same time, do not rush LG retraction after takeoff, a significant loss of lift may occur.

AIRBORNE / CLIMB

1. U/C Check Retracted - handle light Off

2. Engine Gauges in the Green

Followina 3. CABIN PRESSURE

Verify Tank feeding and check NORM 4. FUEL

Call airborne (UHF departure) 5. Radio or visual (VHF wingman)

next steerpoint 6. DED

7. DRIFT CO Switch Set Drift

8. Wingman Set Formation and Route

9. Altimeter QNE (29.92 - 1013) at transition altitude

AERIAL REFUELLING

Tanker rejoin :

1 Radio Set AAR & Request Refuelling.

2. TCN Select TCN Channel

3. TCN Mode SET A/A TR

Course to Intercept (HSI) 4. Heading Tanker ALT - 1000 Ft Altitude

Before Precontact:

6. Master ARM Check Safe

Check Nose Cold (STBY) 7. Sensors (FCR)

8. EW Mode knob & ECM STBY and OFF

9. RDR ALT STBY

10. EXT Lights DIM (night) - STEADY

11. ANTI COLLISION light OFF at Night

12. AIR REFUEL switch Open Check RDY Light On

13. AR status indicator

Contact:

Follow Director Lights 14. Position Check AR/NWS Light On 15. AR status indicator

Monitor (List - #2) 16. Fuel Transfer

Disconnect:

17. A/R DISC button **Depress**

18. Throttle

Post Air refuelling:

19. Radio Call DONE refuelling

Decrease power

20. Air Refuel switch **CLOSE** 21. Master Arm / SMS As required

As required 22. Tacan 23. EW Mode knob &ECM As required

24. FCR As required 25. RDR ALT As required 26. EXT Lights As required

Note: Tanker overtake speed (use angular approach to control closure)

Over 1Nm: 100 Kts overtake

6000 Ft : 60Kts 5000 Ft : 50Kts

Decrease overtake speed by 10 Kts for every 1000 Ft closure. When within 1000 Ft to Tanker: Do not exceed 10Kts overtake.

FENCE IN (AG)

Master Mode AG

Master ARM Set ARM

3. LASER Switch ON if required

4. Sensors (FCR/TGP/FLIR) As Required5. Chaff/ Flares PGM mode As Required

6. ECM Jammer As Required
As Required

7. RWR/EWS Set

8. RWR Mode Diamond Float mode or as required

9. PFLD Check no Faults

10.Master A/C Lights Check Off

11. IFF Check Norm and set Mode as required

12. IDM Initiate CONT if required

13. A/G Weapons Check release parameters
14. SPI Cancel slew : CZ (Cursor Zero)

15. Volumes Check threat, com, msl vol

16. Missile power Check ON if required – double check

17. AIM-9 Cooling head Check Cool
18. CAT config Check correct

19. Master mode MRM once all AG system set

INITIAL POINT (AG)

Master Mode AG

Master Arm Double check ARM

Sensors
 MFDs
 Weapons
 Target
 SET
 Capt

6. Target Capture7. Egress plan Review

8. Action point Initiate attack

9. Countermeasures Initiate program as required

10. AVTR As required

EGRESS

1. Heading Check to friendly airspace

2. Caution Panel Check for damage

3. Master Mode MRM

4. Awacs Check Nearest threat
5. MFD Cycle As Required
6. Store config Set Cat I (if possible)

7. ECM Jammer As Required
8. EWMS mode+pgr At pilot discretion
9. Flight Rejoin / Cover
10. DED A-LOW Set for Egress

11. Flight Check Status & Fuel - Rejoin

Note:

When engaging an A/A threat, Jettison remaining A/G stores, and select Cat 1 config. If threat is less than 10 Nm, Use Dogfight Mode

FENCE OUT

Threat
 Master ARM
 Laser switch
 Master Mode
 ECM Jammer
 Assume A/A Threat - AWACS
 According to remaining threat
 OFF
 NAV
 OFF (According to Threat)

6. RWR/EWS Mode As required
7. PFLD Check no Faults

8. Master A/C lights ON

9. IDM As required

10.IFF Check NORM and set Mode as desired

IF CHECKS MNEMONIC

	<u>Holding/enroute</u>		Approach setup
W	Weather	М	Minimas
Н	Holding	Α	Altimeter
0	Obtain app clearance	I	Initial descent rate
L	Letdown plate review	L	Letdown plate
D	Descent checks	M	Missed Approach
S	Speeds	Α	Approach speeds
		N	Navaids

DESCENT

Master Mode Set NAV
 Master ARM Set Safe

3. Heaters Probe heat ON & ANTI-ICE NORM or ON

4. Descent Start descending at TOD computation

5. Altimeter Set & Check (transition)

6. Approach Review7. Instr Mode Select switch As required

8. TACAN channel Set according to approach plate 9. HSI course and bearings Set according to approach plate

10. GPS Input coordinates of IAF if required

Set VHF radio to Landing airbase freq.

Note:

Listen first to ATIS on VHF,

Contact ATC approach once within 30Nm of landing airbase.

Request OVERHEAD if VFR or Request VECTORS for VISUAL APPROACH if VFR Request UNRESTRICTED APPROACH or Request VECTORS for INSTRUMENT APPROACH if IFR

ATC must be contacted prior to landing or the airport lights will not be turned ON.

APPROACH

1. ATC Initiate Contact with Approach within

30 Nm

2. Fuel Check Quantity/Transfer/Balance

At IAF Follow ATC instructions

Caution:

Pods (TGP) should be stowed for Landing & Taxi

BEFORE LANDING

1. DED Display wind

2. Gear Check 3 greens - handle light off

LANDING Light Check ON
 Speed brake As required
 Drift Co switch Set Norm

7. Traffic Announce traffic in sight if required

FINAL APPROACH

1. Speed brake Extended

2. Gear Down 3 greens

3. Speed On speed AOA (green 11° AOA)

4. Touchdown 11 to 13° AOA

5. Landing clearance Received

Note:

Final approach speed/13° AOA Cross Check: 136 kts + 4 kts per 1000 Pound of FUEL/STORE weight

LANDING

1. Speed Throttle Idle

2. AOA Maintain Max 13° for aerobraking

3. Speed 90-100 kts Let the nose wheel drop on the ground

Maintain gentle AFT stick

4. Wheel brakes As required

5. NWS Engage at control speed (70Kts max)

Note:

Smoothly apply moderate to heavy braking to decelerate to taxi speed.
Using less than moderate braking increases the likelihood of a hot
brake(s)

AFTER LANDING (VACATING RWY)

1. Speedbrake CLOSE 2. PROBEHEAT switch OFF

3. IFF HOLD & STBY

4. ILS OFF 5. TAXI Lights ON 6. Radar Alt OFF

7. Radio Clearance to taxi back received from

GROUND UHF

PRIOR TO ENGINE SHUT DOWN

1. Radio (ATC menu) Request chocks in place

2. Ejection Seat Safe
3. RWR PWR OFF
4. JMR & ECM PWR OFF
5. Chaff & Flares CMDs OFF

6. HUD ICP SYM knob OFF

7. L/R Hardpoints Power OFF
8. FCR Power OFF
9. MMC (FCC) Power OFF
10. ST STA (SMS) Power OFF
11. MFD Power OFF
12. UFC/DED Power OFF
13. D/Link Power OFF

14. EGI OFF
15. EPU OFF
16. IFF OFF
16. C&I switch BACKUP

ENGINE SHUT DOWN

AIR Source Set OFF
 Radios & Volume knobs All OFF

3. Throttle - Stabilize at 75-78% RPM for 5-10 sec

- Idle to allow nozzle to open (1 to 2 sec)

4. Throttle (Idle Detent) Cut OFF position

5. JFS RUN light Check

After Main GEN drops offline:

6. EPU Light check EPU GEN / EPU PMG lights OFF

7. Engine FEED switch
8. Master LIGHT switch
9. Spider
10. Canopy
Set OFF
OFF
Open
Motor up

11. Main Power OFF -2 clicks when RPM < 20%

12. Oxygen regulator OFF & 100%

HOTPIT REFUEL

Prior to HOTPIT Entry

1. AFTER LANDING CHECKS Complete

2. Radio Frequency Check proper ATC frequency tuned

3. AIR REFUEL switch Open ; RDY light ON

4. TACAN power knob Power OFF

5. GND JETT ENABLE switch OFF

Prior to Hot Refuelling

1. EPU safety PIN REQUEST IN (ATC menu)

2. Canopy As desired

3. Radio request Hot PIT Refuelling

During Hot Refuelling

2. Radio freq Monitor ATC freq & guard

3. Flight controls Do not touch

Hot Refuelling complete

1. AIR REFUEL switch CLOSE
2. EPU GEN & EPU PMG lights Confirm OFF

3. EPU safety PIN REQUEST OUT (ATC menu)

4. Taxi Taxi clear of the hotpit area and contact

ground

Note:

Hotpit refuelling requires ground crew to establish intercom communication, inspect tires and install the EPU safety pin.

SUPPLEMENTAL PROCEDURE: ILS

1. ILS Power & Volume Check ON and as desired (Audio 2 panel)

2. DED Select T-ILS page

3. ILS frequency Enter ILS frequency and ENTR

4. CRS setting Enter approach course 5. Cmd STRG Check Mode selected

6. HSI Set Inbound localizer course

6. INSTR Mode knob ILS/TCN or ILS/NAV