

# PREFLIGHT CHECKS

## Left console:

- Armament / ground safty override switch.....SAFE
- Utility light.....STOWED
- EGI HQ TOD switch.....AS REQUIRED
- CCTVS/DVADR remote control panel.....OFF
- Intercom controls.....SET
- VHF/FM control panel.....OFF/SET
- UHF control panel.....ON/SET
- VHF/AM control panel.....OFF/SET
- Radar altimeter.....NRM
- Emergency flight control panel.....SET
  - Flap emergency retract switch.....UNMARKED
  - Flight control mode switch.....CENTER POS
  - Aileron emergency disengage switch.....CENTER POS
  - Speed brake emergency retract.....UNMARKED
- IFF.....OFF/SET
- HARS/SARS override switch.....NORM
- Refuel status and indexer light control.....NORM
- NVIS light switch.....OFF
- Throttle master exerior light control switch.....AFT
- Throttles.....OFF
- Flap lever.....SET
- Speed brake control.....CENTER (HOLD)
- APU switch.....OFF
- Engine operate switches.....NORM
- Engine fuel flow switches.....NORM
- Fuel system control panel.....SET
  - Main boost pump switches (L and R) .....MAIN
  - Wing boost pump switches (L and R) .....WING
  - Main fill disable switches (L and R) .....DEPRESSED
  - Wing fill disable switches (L and R) .....DEPRESSED
- Air refuel control.....CLOSE
- Tank gate switch.....CLOSE
- Cross feed switch.....OFF
- External tank switches (WING and FUS).....OFF
- Signal ampliflier switch.....NORM
- Emergency brake handle.....IN

### **Instrument Panel:**

- Landing gear handle.....DOWN
- Landing/taxi light switch.....OFF
- Armament control panel.....SET
- Master arm switch.....SAFE
- GUN/PAC arm switch.....SAFE
- LASER arm switch.....SAFE
- TGP.....OFF
- ALT SCE.....AS DESIRED
- HUD mode switch.....AS DESIRED
- CICU.....OFF
- JTRS.....OFF
- MFCD (L/R) .....OFF
- Standby attitude indicator.....CAGE
- Accelerometer.....RESET
- Fire handles.....IN
- Fire extinguisher discharge switch.....CENTER
- Standby compass.....CHECK
- Auxiliary landing gear extension handle.....IN
- Circuit breakers.....CHECK CLOSED

### **Right Control:**

- Electrical power control panel.....SET
  - APU generator switch.....OFF/RESET
  - Inverter switch.....OFF
  - AC generator switches (L/R) .....PWR
  - Battery switch.....OFF
  - Emergency floodlight switch.....AS REQUIRED
- CMSP.....SET
  - Mode switch.....OFF
  - System switches.....OFF
- ISL control panel.....OFF/SET
- AAP.....SET
  - CDU switch.....OFF
  - EGI switch.....OFF
  - PAGE knob.....OTHER
  - STEER PT knob.....MISSION
- Oxygen system.....CHECK
- Environment control panel.....SET
  - Windshield defog/deice switch.....OFF
  - Canopy defog control.....OFF
  - Rain removal switch.....OFF

- Pitot heat.....**OFF**
- Bleed air switch.....**BLEED AIR**
- Main air switch.....**SUPPLY**
- Temperature/pressure control.....**NORM**
- TACAN contols.....**OFF/SET**
- HARS control panel.....**SET**

# BEFORE ENGINE START

- Battery switch.....ON
- Inverter switch.....STBY
- Engine instruments.....CHECK
  - INST INV, L/R ENG HOT caution lights.....OUT
  - ITT indicator.....< 150°C
- Fire detect/bleed air test button.....DEPRESS
  - Fire handles and BLEED AIR LEAK caution lights.....ON
- Gear lights.....CHECK
- Signal lights.....TEST
- Clock.....SET
- Fuel quantity.....CHECK
  - Test indicator.....DEPRESS
    - L/R pointers.....~3000
    - Totalizer.....~6000
    - Fuel display selector - verify total in each pos.
- Oxygen quantity.....CHECK
  - Supply lever.....ON
  - OXY LOW caution light.....OFF
  - OXY IND TEST button.....DEPRESS
    - OXY LOW caution light at 0.5 liter.....ON
- APU switch.....START
  - L-FUEL PRESS light.....OUT
- APU generator switch.....PWR
  - APU generator caution light.....OUT
- AAP.....SET
  - CDU switch.....ON
  - EGI switch.....ON
- CDU.....SET
- VHF/AM radio.....TR
  - Frequency.....SET AS REQUIRED
- VHF/FM radio.....TR
  - Frequency.....SET AS REQUIRED
- Seat.....ADJUST
- Radio ATC and REQUEST START-UP.

# ENGINE START

- Left engine ..... **START**
- Engine operate switch ..... **NORMAL**
- Left throttle ..... **IDLE**
  - ITT ..... **RISE WITHIN 20 SEC**
  - Oilpressure ..... **CHECK RISING**
  - Hydraulic pressure ..... **FULL PRESSURE AT 40% RPM**
  - L-GEN light ..... **OFF AT ~52% RPM**
  - ENG START CYCLE light ..... **OFF 30 SEC AFTER 56% RPM**
- Right engine ..... **START**
- Right engine instruments ..... **CHECK**
- Idle RPM ..... **CHECK**
- Flight controls ..... **CHECK**
- AC generators ..... **CHECK**
- Instrument inverter ..... **CHECK**

# BEFORE TAXI

- CCTVS/DV ADR control panel.....STBY
- IFF.....STBY
- Emergency brake handle.....FULL FORWARD
- CMSP.....SET
  - Jettison switch.....AFT
  - Mode switch.....STBY
  - Subsystem switches.....AS REQUIRED
- TILS.....CAGE
- ILS PWR control knob.....PWR
- TACAN mode selector.....T/R
- Windshield defog/deice switch.....DEFOG/DEICE
- Signal lights.....TEST
- Flaps.....CYCLE
- Speed brakes.....CHECK
- Flight controls.....CHECK
  - SAS switches.....OFF
  - Free and correct movement of control surfaces.
  - Hydraulic pressure.....CHECK
- SAS.....CHECK
  - Anti-skid switch.....ANTI-SKID
  - SAS switches.....ENGAGE
  - Monitor test switch.....L (HOLD)
    - SAS switches.....DISENGAGE
    - Left rudder.....KICK LEFT
  - Monitor test switch.....R (HOLD)
    - All SAS switches.....DISENGAGE
    - Right rudder.....KICK RIGHT
  - SAS switches.....ENGAGE
  - Pitch trim compensator.....CHECK
    - Speed brakes.....40% OPEN
  - Anti-skid switch.....OFF
- Trim.....CHECK
- Takeoff trim button.....DEPRESS
- Brakes.....CHECK
- Warning tones.....CHECK
  - Slat operation
  - Peak performance
  - Stall warning
- Pitot heat.....CHECK
- CDU data.....VERIFY / ENTER

## **AFTER ALIGNMENT**

- CDU align page.....**DEPRESS NAV LSK**
- Navigation mode select panel - EGI/ANCHR/TACAN....**AS DESIRED**
- IFFCC switch.....**TEST**
- JTRS switch.....**ON AS REQUIRED**
- CICU switch.....**ON**
- MFCD (L/R).....**AS REQUIRED**
- MFCD (load page).....**LOAD DATA AS REQUIRED**
- MFCD (STAT page).....**CHECK/RECORD/CLEAR MFLs**
- TGP switch.....**ON AS REQUIRED**
- Radar warning system.....**TEST ⇒ AS REQUIRED**
- TACAN.....**TEST**
- Flight instruments.....**CHECK**
  - ADI.....**CHECK MOVEMENT**
  - SAI.....**UNCAGE**
  - VVI.....**ZERO**
  - Airspeed indicator.....**CHECK**
- IFFCC preflight BIT.....**CHECK**
- IFFCC BIT faults.....**CLEAR**
- SAS.....**ENGAGE**
- IFFCC switch.....**ON**
- Stick master mode control button.....**AS REQUIRED**
- IFFCC data.....**VERFIY/ENTER**
- APU generator switch.....**OFF/RESET**
- APU switch.....**AS REQUIRED**
- Ladder.....**STOWED**
- Idle