## Falcon 7X



Throttles
Flight-management system
Head-up guidance system
Cursor control device and tracker for EASy flightdeck control screens

Pilot's fold down shelf

Overhead electrical panel
Centre console

DASSAULT FALCON

Structure and general

1 Forward-moving, upward-hingeing di-electric radome with integral

lightning-arrestor strips - Kevla Radar-mounting bulkhead

EASy flight deck - Honeywell

Warning panel
Navigation controllers
Communications controls

- Nose cone deflector
- Crew lavatory
- aluminium alloy 0.80 x 1.72m Windshield - four sections
- Fuselage section interface and doubler
   Cabin management system
- 13 Electrically actuated main door incorporating pneumatic dampers fully folding airstair and handrail –
- 14 Main-door interior operating lever
- construction, incorporating chem-milled aluminium-alloy skin over aluminium-alloy frames and stringers
  - Coat closet/entertainment system
  - Typical fuselage frame aluminium alloy Single seat
  - Folding stowable console table Fold-away dining table (electrically actuated)
- 25 Mid-cabin life raft
- storage cabinets Cabin side panels Dual seats

Side stick controller

- Armrest storage cabinet
  Three-place divan with
  berthing extension
  Lavatory and coat closet
  Body fairing composite
- 32 Machined wing-skin panels 33 Typical inboard wing rib machined aluminium alloy
- 34 Wing front spar, two-piece
- machined aluminium alloy

  35 Slat-track cans (eight), allow track intrusion through spar into the wing
- 36 Typical outboard wing rib machined aluminium alloy

  37 Detachable winglets –
  - 38 Wing rear spar, two-piece
- 40 Flap-actuator can three off 41 Machined auxiliary spar and integral main landing gear support Machined piano type multi-bolt wing
- centre-wingbox structure Body fairing support Machined and forged fuselage to centre-wingbox mainframe forward fitting
- 46 Cabin-floor panels Emergency exit – 0.53 x 0.91mm starboard side only
- Cabin windows Machined and forged fuselage to Main landing gear well
  - 51 Body fairing and integral fuel cell Nacelle air-inlet
- 54 S-duct aerodynamic fairing -Kevlar honeycomb

  Nacelle upper and lower fan cowl
- doors composite Mandolin S-duct support
  - structure metallic Aluminium alloy window frames Machined pressure bulkhead and secondary-structure - door
  - allows inflight access to the

Baggage-compartment aft-pressure bulkhead – machined aluminium alloy
 Baggage compartment – 4m³
 Lower stub-fin sloping frames

Detachable fintip fairing - composite

providing upper-fin mounting points Fin leading-edge structure –

**Pratt & Whitney Canada** 

Single-piece swept-back variable-incidence tailplane – composite construction

slat – aluminium alloy

C4 Median slat – aluminium alloy

C5 Outboard slats – aluminium alloy

C6 Alieron dual servo actuator –

fly-by-wire access doors - composite
73 Flap-track aerodynamic fairing

74 Pilot's and co-pilot's fully adjustable seats and harness

69 Deflector

Tim Hall AMRAeS

St Cloud, Paris 2005

66 Tailplane aft aerodynamic

fairing – composite Two-spar fully cantilevered

68 Forged and machined fin to stub-fin

70 Pylon trailing edge – metallic 71 Stub-fin structure 72 Engine-bay hinged two-piece

A4 Wing anti-ice system
A5 Aircraft bleed air system
A6 S-duct de-icing pipe

A7 Centre engine inlet anti-ice pipe A8 HP/LP bleed engine ports

Air conditioning and anti-icing
A1 Windscreen-demist vent
A2 Cockpit air system
A3 Cabin air system

C7 Hinge-mounted aileron
C8 Outboard double-slotted fixed vane Fowler flap
C9 Outboard airbrake
C10 Spoiler
C11 Inboard airbrake

C12 Inboard single-piece double-slotted fixed vane Fowler flap with two actuators – aluminium alloy

C13 Tailplane incidence linear actuator C14 Tailplane-actuator support C15 Elevator dual-servo actuator -

Flying Controls
C1 Adjustable rudder pedals
C2 Sidestick controller
C3 Single-piece inboard leading-edge

fly-by-wire
C16 Tailplane fairing
C17 Rudder dual-servo actuator –

fly-by-wire

C18 Hinge mounted rudder

C19 Hinge-mounted elevator —
aluminium-alloy construction

P3 Igniter box
P4 Fire extinguisher bottle
P5 Thrust reverser – "clamshell" type

E16 Static-discharge wicks

E20 HF 1 and 2 antenna

Fuel system Total capacity – (13,109kg)

F1 Wing fuel cell
F2 Wing Fuel-cell end ribs
F3 Fuel-probe capacitance type
F4 Gravity-refuelling point

P1 Pratt & Whitney Canada PWC 307A turbofan engines – rated at 6,100lb thrust at sea level

P2 Electronic engine control (EEC)

E21 Anti-collision strobe light E22 VOR antenna

E17 HF antenna-coupler amplifier

weather radar E2 Forward avionics bay E3 Air temperature sensor E4 Smart probes E5 Anti-ice detector E6 Monitoring unit E7 Guidance system E8 Avionics rack, left and right

E9 GPS 1 antenna E10 GPS 2 antenna E11 TCAS antenna

E12 Glideslope antenna
E13 Landing light
E14 Navigation light
E15 Anti-collision strobe light

Undercarriage and hydraulics
U1 Nose landing gear
doors - composite
U2 Forward-retracting, hydraulically

actuated, cantilever oleo pneumatic actuated, cantilever cleo pneumatic shock-absorber nose landing-gear with electrically controlled steering -Messier-Dowty

U3 Undercarriage-retraction actuator

U4 Undercarriage uplock

U5 Twin-wheel undercarriage maingear with free-fall capability –
Messier-Dowty