

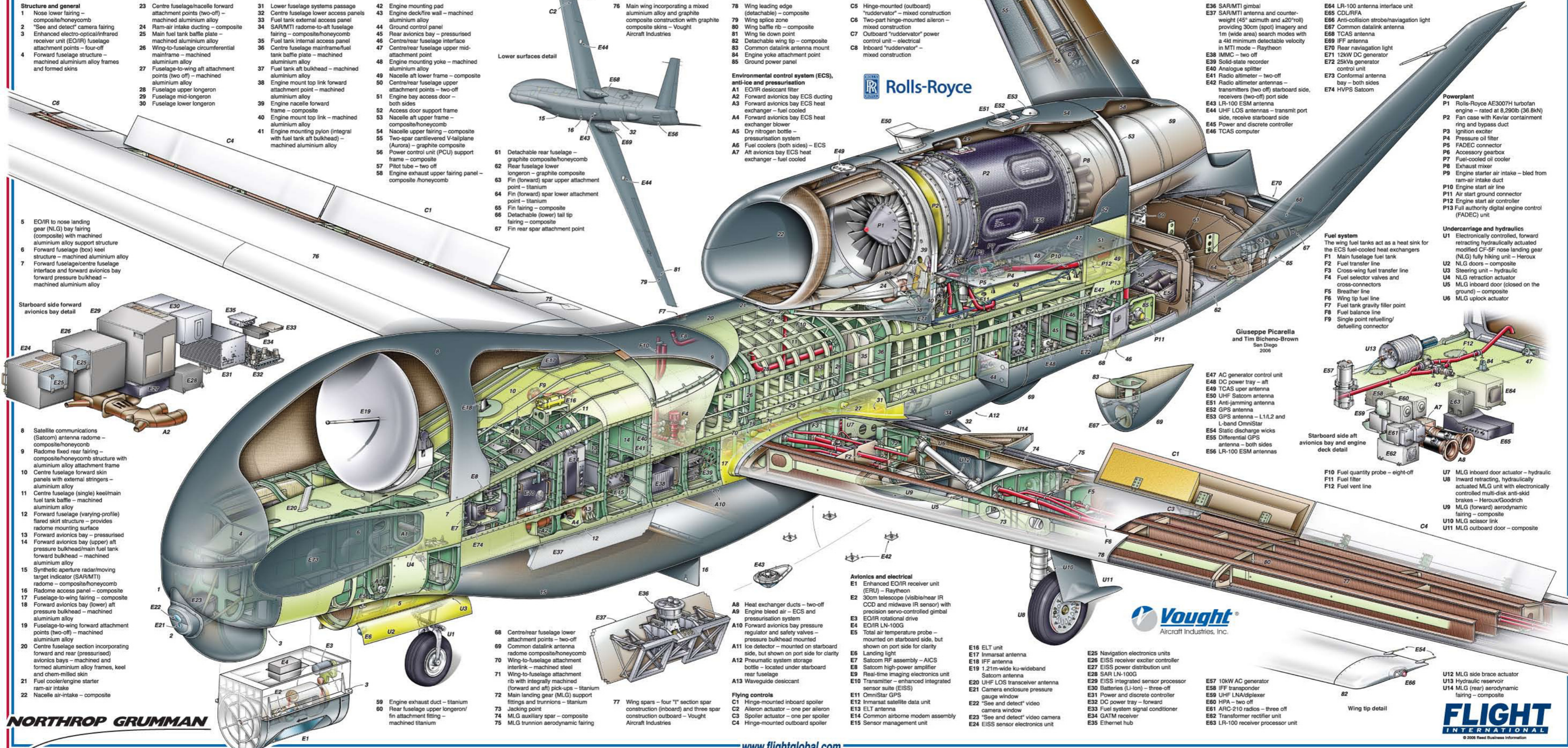
NORTHROP GRUMMAN RQ-4 BLOCK 20

GLOBAL HAWK

Raytheon

Aurora
FLIGHT SCIENCES

L3
communications



- Structure and general**
- Nose lower fairing - composite/honeycomb
 - "See and detect" camera fairing
 - Enhanced electro-optical/infrared receiver unit (EO/IR) fuselage attachment points - four-off
 - Forward fuselage structure - machined aluminium alloy frames and formed skins
 - EO/IR to nose landing gear (NLG) bay fairing (composite) with machined aluminium alloy support structure
 - Forward fuselage (box) keel structure - machined aluminium alloy
 - Forward fuselage/centre fuselage interface and forward avionics bay forward pressure bulkhead - machined aluminium alloy
 - Satellite communications (Satcom) antenna radome - composite/honeycomb
 - Radome fixed rear fairing - composite/honeycomb structure with aluminium alloy attachment frame
 - Centre fuselage forward skin panels with external stringers - aluminium alloy
 - Centre fuselage (single) keel/main fuel tank baffle - machined aluminium alloy
 - Forward fuselage (varying-profile) flared skirt structure - provides radome mounting surfaces
 - Forward avionics bay - pressurised
 - Forward avionics bay (upper) aft pressure bulkhead/main fuel tank forward bulkhead - machined aluminium alloy
 - Synthetic aperture radar/moving target indicator (SAR/MTI) radome - composite/honeycomb
 - Radome access panel - composite
 - Fuselage-to-wing fairing - composite
 - Forward avionics bay (lower) aft pressure bulkhead - machined aluminium alloy
 - Fuselage-to-wing forward attachment points (two-off) - machined aluminium alloy
 - Centre fuselage section incorporating forward and rear (pressurised) avionics bays - machined and formed aluminium alloy frames, keel and chem-milled skin
 - Fuel cooler/engine starter ram-air intake
 - Nacelle air-intake - composite
 - Centre fuselage/nacelle forward attachment points (two-off) - machined aluminium alloy
 - Fuel tank external access panel
 - Ram-air intake ducting - composite
 - Main fuel tank baffle plate - machined aluminium alloy
 - Centre/rear fuselage interface
 - Centre fuselage mainframe/fuel tank baffle plate - machined aluminium alloy
 - Fuselage-to-wing aft attachment points (two-off) - machined aluminium alloy
 - Fuselage upper longeron
 - Fuselage mid-longeron
 - Fuselage lower longeron
 - Lower fuselage systems passage
 - Centre fuselage lower access panels
 - Fuel tank external access panel
 - SAR/MTI radome-to-aft fuselage fairing - composite/honeycomb
 - Fuel tank internal access panel
 - Centre fuselage mainframe/fuel tank baffle plate - machined aluminium alloy
 - Fuselage-to-wing aft attachment points (two-off) - machined aluminium alloy
 - Centre/rear fuselage upper attachment points - two-off
 - Engine bay access door - both sides
 - Access door support frame
 - Nacelle aft upper frame - composite/honeycomb
 - Nacelle upper fairing - composite
 - Two-spar cantilevered V-tailplane (Aurora) - graphite composite
 - Power control unit (PCU) support frame - composite
 - Pitot tube - two off
 - Engine exhaust upper fairing panel - composite honeycomb
 - Engine mounting pad
 - Engine deck/fire wall - machined aluminium alloy
 - Fuel tank external access panel
 - Ground control panel
 - Rear avionics bay - pressurised
 - Centre/rear fuselage interface
 - Centre/rear fuselage upper mid-attachment point
 - Engine mounting yoke - machined aluminium alloy
 - Nacelle aft lower frame - composite
 - Centre/rear fuselage upper attachment points - two-off
 - Engine bay access door - both sides
 - Access door support frame
 - Nacelle aft upper frame - composite/honeycomb
 - Nacelle upper fairing - composite
 - Two-spar cantilevered V-tailplane (Aurora) - graphite composite
 - Power control unit (PCU) support frame - composite
 - Pitot tube - two off
 - Engine exhaust upper fairing panel - composite honeycomb
 - Detachable rear fuselage - graphite composite/honeycomb
 - Rear fuselage lower longeron - graphite composite
 - Fin (forward) spar upper attachment point - titanium
 - Fin (forward) spar lower attachment point - titanium
 - Fin fairing - composite
 - Detachable (lower) tail tip fairing - composite
 - Fin rear spar attachment point
 - Main wing incorporating a mixed aluminium alloy and graphite composite construction with graphite composite skins - Vought Aircraft Industries
 - Wing leading edge (detachable) - composite
 - Wing splice zone
 - Wing baffle rib - composite
 - Wing tie down point
 - Detachable wing tip - composite
 - Common datalink antenna mount
 - Engine yoke attachment point
 - Ground power panel
 - Hinge-mounted (outboard) "ruddervator" - mixed construction
 - Two-part hinge-mounted aileron - mixed construction
 - Outboard "ruddervator" power control unit - electrical
 - Inboard "ruddervator" - mixed construction
 - Environmental control system (ECS), anti-ice and pressurisation
 - EO/IR desiccant filter
 - Forward avionics bay ECS ducting
 - Forward avionics bay ECS heat exchanger - fuel cooled
 - Forward avionics bay ECS heat exchanger blower
 - Dry nitrogen bottle - pressurisation system
 - Fuel coolers (both sides) - ECS
 - Aft avionics bay ECS heat exchanger - fuel cooled
 - Detachable rear fuselage - graphite composite/honeycomb
 - Rear fuselage lower longeron - graphite composite
 - Fin (forward) spar upper attachment point - titanium
 - Fin (forward) spar lower attachment point - titanium
 - Fin fairing - composite
 - Detachable (lower) tail tip fairing - composite
 - Fin rear spar attachment point
 - Heat exchanger ducts - two-off
 - Engine bleed air - ECS and pressurisation system
 - Forward avionics bay pressure regulator and safety valves - pressure bulkhead mounted
 - Ice detector - mounted on starboard side, but shown on port side for clarity
 - Pneumatic system storage bottle - located under starboard rear fuselage
 - Waveguide desiccant
 - Wing spars - four "I" section spar construction (inboard) and three spar construction outboard - Vought Aircraft Industries
 - Wing leading edge (detachable) - composite
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Rolls-Royce

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San Diego 2006

Vought
Aircraft Industries, Inc.

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