



Grumman F-14 Tomcat

Manufacturer: Grumman Aerospace Corporation, Calverton, Long Island, New York.

Type: carrier-borne multirole variable wing fighter.

Crew: two (pilot and naval flight officer).

Specification: F-14A.

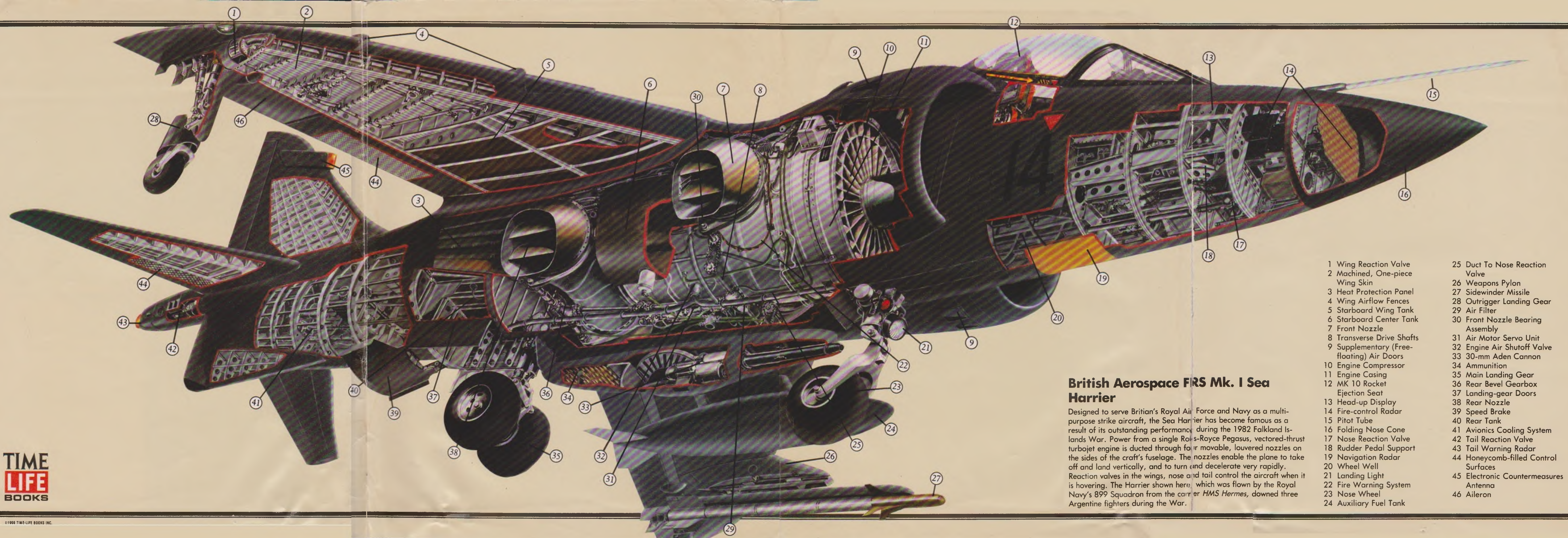
Power Plant: two 20,900 lb TF30 412A.

Dimensions: span 68 sweep, 38 ft 2 in; span 20 sweep, 64 ft 1.5 in; length, 61 ft 2 in; height, 16 ft.

Weights: empty, 37,500 lb; gross, 72,000 lb.

Performance: maximum speed at height, 1564 mph (Mach 2.34); maximum speed at sea level, 910 mph (Mach 1.2); initial climb at gross weight, over 30,000 ft per min; service ceiling, over 56,000 ft; range, 2000 miles.

Armament: one 20 mm M61-A1 multi-barrel cannon, four AIM-7 Sparrow and four or eight AIM-9 Sidewinder air-to-air missiles, up to six AIM-54 Phoenix and two AIM-9 maximum external weapon load in surface attack role, 14,500 lb.



British Aerospace FRS Mk. 1 Sea Harrier

Designed to serve Britain's Royal Air Force and Navy as a multi-purpose strike aircraft, the Sea Harrier has become famous as a result of its outstanding performance during the 1982 Falkland Islands War. Power from a single Rolls-Royce Pegasus, vectored-thrust turbojet engine is ducted through four movable, louvered nozzles on the sides of the craft's fuselage. The nozzles enable the plane to take off and land vertically, and to turn and decelerate very rapidly. Reaction valves in the wings, nose and tail control the aircraft when it is hovering. The Harrier shown here, which was flown by the Royal Navy's 899 Squadron from the carrier *HMS Hermes*, downed three Argentine fighters during the War.

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|---|---------------------------------------|
| 1 Wing Reaction Valve | 25 Duct To Nose Reaction Valve |
| 2 Machined, One-piece Wing Skin | 26 Weapons Pylon |
| 3 Heat Protection Panel | 27 Sidewinder Missile |
| 4 Wing Airflow Fences | 28 Outrigger Landing Gear |
| 5 Starboard Wing Tank | 29 Air Filter |
| 6 Starboard Center Tank | 30 Front Nozzle Bearing Assembly |
| 7 Front Nozzle | 31 Air Motor Servo Unit |
| 8 Transverse Drive Shafts | 32 Engine Air Shutoff Valve |
| 9 Supplementary (Free-floating) Air Doors | 33 30-mm Aden Cannon |
| 10 Engine Compressor | 34 Ammunition |
| 11 Engine Casing | 35 Main Landing Gear |
| 12 MK 10 Rocket Ejection Seat | 36 Rear Bevel Gearbox |
| 13 Head-up Display | 37 Landing-gear Doors |
| 14 Fire-control Radar | 38 Rear Nozzle |
| 15 Pitot Tube | 39 Speed Brake |
| 16 Folding Nose Cone | 40 Rear Tank |
| 17 Nose Reaction Valve | 41 Avionics Cooling System |
| 18 Rudder Pedal Support | 42 Tail Reaction Valve |
| 19 Navigation Radar | 43 Tail Warning Radar |
| 20 Wheel Well | 44 Honeycomb-filled Control Surfaces |
| 21 Landing Light | 45 Electronic Countermeasures Antenna |
| 22 Fire Warning System | 46 Aileron |
| 23 Nose Wheel | |
| 24 Auxiliary Fuel Tank | |