



**Hercules Mk I cutaway key**

- 1 Plexiglass nose paneling
- 2 Seats for pilot and co-pilot
- 3 Central columns
- 4 Levers to release tow-cable, section mainwheel, and operate flaps mounted on central console
- 5 Central instrument panel
- 6 Elevator trimwheel
- 7 Compressed-air cylinder
- 8 Port rudder-bar
- 9 Fixed nosewheel
- 10 Cockpit section bulkhead
- 11 Cockpit section door
- 12 Venturi tube
- 13 Pilot head rest
- 14 Mast-suspended aerial
- 15 Underfloor load-carrying sparce beams
- 16 Underfloor control-cable runs
- 17 Hinged loading hatch, forming ramp when open
- 18 Folding ramp extension
- 19 Door aperture in hatch
- 20 Conciseous wall-benches (each side) to seat 20 troops (in addition to five individual seats fore and aft)
- 21 Reinforced plywood floor
- 22 Cabin portholes (six per side)

- 23 Fuselage longerons (four, equally spaced peripherally)
- 24 Full-depth laminated spruce main-spar of wing construction
- 25 Roof hatch provision for defensive fire
- 26 Wing centre-section cross-bracing beams
- 27 Supply-conduits in internal wing-bays (three per wing)
- 28 Flip-actuating pneumatic reservoir

- 29 Outer-wing main-spar anchorage to centre-section (metal plates mounted on mahogany strips)
- 30 Plywood right nose-spar of wing construction
- 31 Outer-wing laminated spruce main-spar beams tapering towards tip
- 32 Plywood internal posts between main-spar beams (entire spar faced with ply sheathing)
- 33 Warren-truss structure of nose ribs
- 34 Outer limits of laminated nose spar
- 35 Wingsap navigation light
- 36 Aileron actuating rod
- 37 Aileron control linkage
- 38 Port aileron
- 39 Cross-braced Warren-truss wing structure
- 40 Plywood skin forward of main-spar (diagonally grained for strength)

- 41 Fabric covering aft main-spar
- 42 Aileron control cables
- 43 Rear wing spar
- 44 Two-piece split flap (maximum depression of 90°)
- 45 Transverse cast-iron rear cabin bulkhead
- 46 Rear entry door
- 47 Fore and aft bulkheads at primary fuselage joints (The rear fuselage may be quickly detached from the aft bulkhead to aid rapid unloading)
- 48 Plywood fuselage skin (mush of it with grain applied spirally for added rigidity)
- 49 Rudder control cables
- 50 Elevator control cables
- 51 Elevator control linkage
- 52 Tailplane bracing struts

- 53 Spruce and plywood fin structure
- 54 Rudder horn and mass balance
- 55 Rudder trim tab
- 56 Elevator trim tab
- 57 Spruce and plywood tailplane structure (Tail unit construction basically reproduction that of the wing in reduced and simplified form)
- 58 Elevator hinge brackets

- 59 Mainwheel shock-absorber struts attached to wing main-spar (may be released at each end by cable from the cockpit)
- 60 Ventral and mainwheel unit (on release of 59 these units fall free following collapse of mainwheel beneath the fuselage)
- 61 Landing-aid shock-absorbers
- 62 Heavy-duty landing-aid (used in conjunction with fixed nosewheel when main undercarriage has been jettisoned to reduce weight and drag)