

OLYMPUS 202/301 SERIES  
SECTION 15  
ENGINE INSTALLATION

1. Engine Mounting

Mounted in its bay by three point suspension. Two trunnions, one on each side of the delivery casing, and a single adjustable front suspension link are the three points. The side trunnions engage in spherical bearing assemblies. To allow for lateral expansion the centre engine rib carries a fixed bearing whilst the other two ie the most inboard and outboard bearings are free floating. The front link swings fore and aft and allows for linear expansion.

2. Jet Pipe Mounting

The Jet pipe is attached to the exhaust cone by quick release type manacle clamps. A bellows assembly allows for linear expansion. The jet-pipe is supported on rollers which run in guide rails in the tunnel thereby facilitating jet pipe removal.

3. Accessories

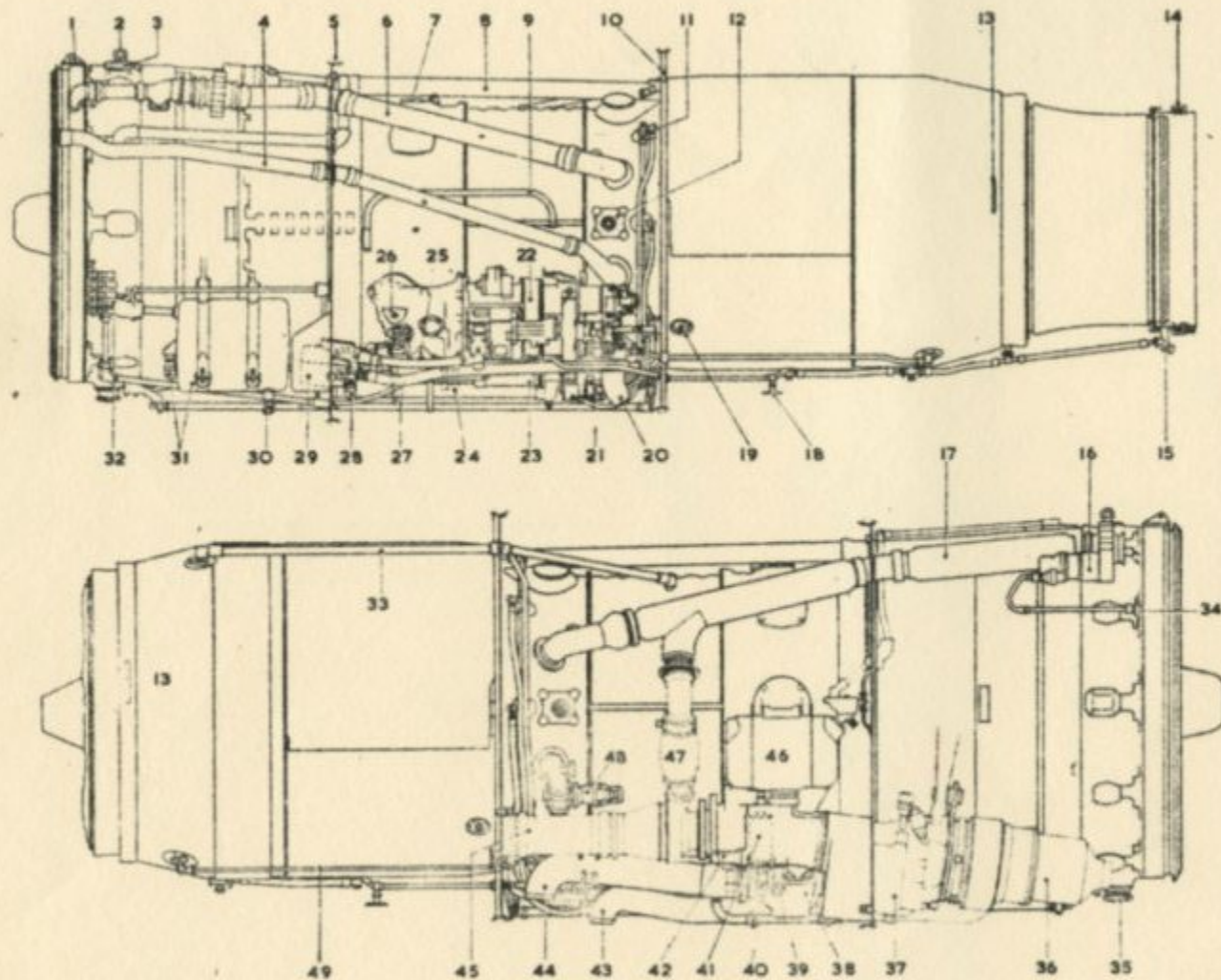
All four engines drive alternators through their constant speed drive units. Hydraulic pumps are fitted to numbers 1,2 and 3 engines.

4. Drainage Collector Tanks

Two tanks fitted port and starboard on the forward part of the rear door collect all drainage from the engine. The port tank is self-emptying in flight but it is necessary to remove any residual fuel before the door is opened. The starboard tank collects from the fuel pump glands and is not self emptying. An accumulation of fuel in this tank indicates a fault in the fuel pump and should be investigated. Do not drain both tanks together. Both tanks are to be emptied immediately prior to flight.

5. Engine Bay Doors

The engine access doors are part of the stressed under surface of the aircraft. There are three doors to each engine bay. The centre door is lipped over the front and rear doors. Air inlet and outlet is arranged through ducting within the centre door. An oil tank inspection panel is provided in the front door and the drain tank is fitted in the rear door.



- 1 FRONT LIFTING EYE
- 2 FRONT MOUNTING BRACKET
- 3 OIL SEPARATOR AIR OUTLET
- 4 FUEL HEATER AIR SUPPLY
- 5 FRONT BULKHEAD
- 6 ANTI-ICING AIR SUPPLY TO AIR INTAKE CASING AND ENTRY GUIDE VANES
- 7 AIR TO PRESS. CSU OIL TANK & BULKHEAD SEALS
- 8 ANTI-ICING AIR RETURN TO ZONE 28
- 9 FUEL SYSTEM HOIST FAIRLEAD
- 10 REAR BULKHEAD
- 11 FUEL BURNER
- 12 MOUNTING AND THRUST TRUNNION
- 13 REAR LIFTING EYE
- 14 JET PIPE ATTACHMENT RING
- 15 COMBUSTION CHAMBER AND EXHAUST CONE DRAIN
- 16 AIR SUPPLY CONTROL VALVE
- 17 AIRCRAFT AIR SUPPLY PIPE
- 18 FUEL DRAIN
- 19 IGNITER PLUG
- 20 ENGINE BREATHER
- 21 FUEL FLOW DISTRIBUTOR AND DUMP VALVE
- 22 UNIT FUEL SYSTEM
- 23 FUEL FILTER
- 24 SCAVENGE FILTERS
- 25 H. P. COMPRESSOR HAND TURNING GEAR LOCATION
- 26 L. P. COMPRESSOR HAND TURNING GEAR LOCATION
- 27 OIL SUMP DRAIN
- 28 OIL TANK FILLER
- 29 FUEL FLOWMETER
- 30 OIL TANK DRAIN
- 31 OIL TANK AND OVERFLOW
- 32 ELECTRICAL CONNECTIONS
- 33 PRESSURISING AIR TO REAR BEARING SEAL
- 34 ELECTRICAL CONNECTIONS TO CONTROL VALVE
- 35 AIR INTAKE ANTI-ICING OUTLET
- 36 A.C. GENERATOR
- 37 CONSTANT SPEED DRIVE UNIT
- 38 C.S.U. OIL COOLER
- 39 C.S.U. OIL TANK DRAIN
- 40 C.S.U. OIL TANK FILLER
- 41 C.S.U. OIL FILTER
- 42 OIL PRESSURE TRANSMITTER
- 43 GENERATOR COOLING AIR DUCT OUTLET
- 44 C.S.U. OIL COOLER AIR DUCT OUTLET
- 45 AIR STARTER EXHAUST
- 46 C.S.U. OIL TANK
- 47 AIR REGULATING CONTROL VALVE
- 48 COOLING AIR INDUCER CONTROL VALVE
- 49 OIL SUPPLY TO REAR BEARING

### GENERAL INFORMATION

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