

SILK TAILERON JOURNAL MACHINE

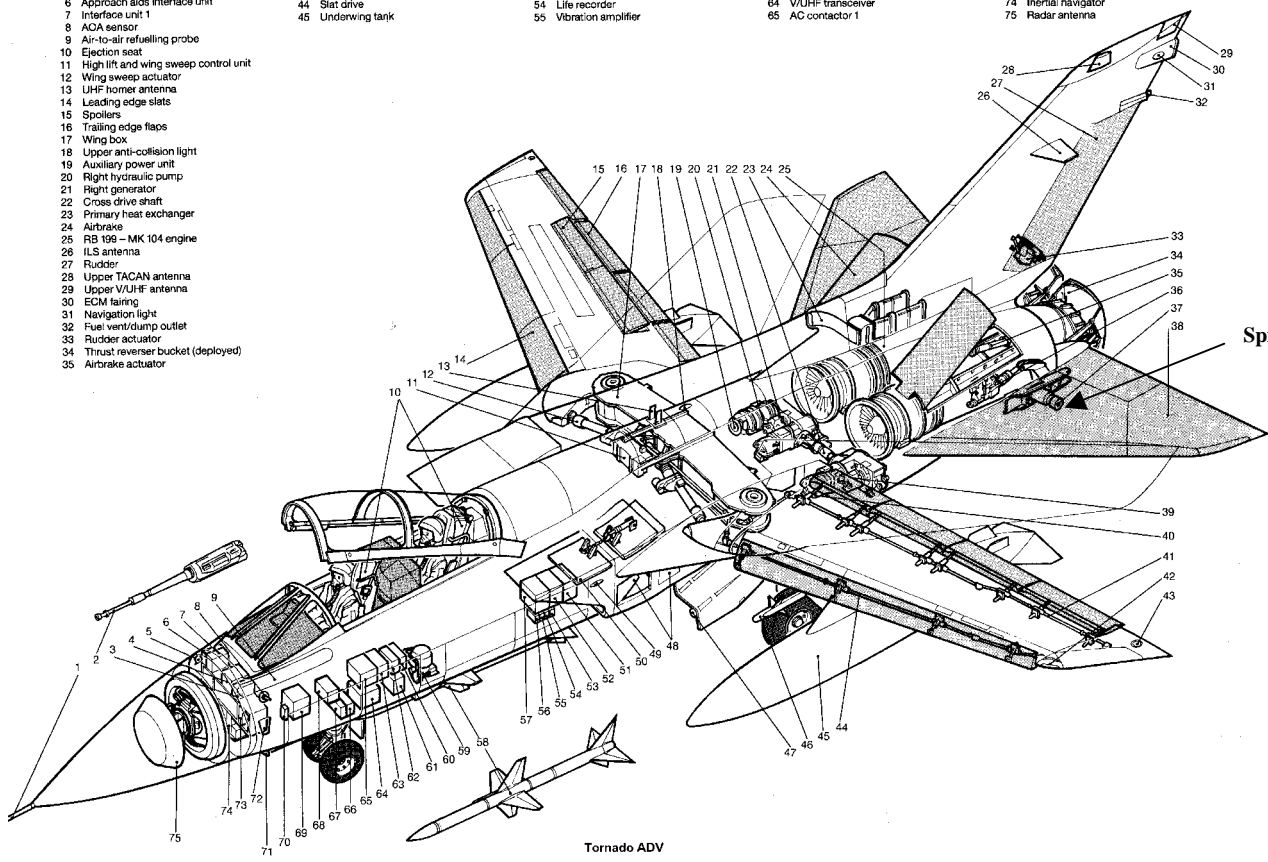
The Taileron machine is used to turn down inboard journal diameters on Tornado Taileron spigots. British Aerospace installs a new bearing after the machine removes 0.004" of material on diameter and achieves a tolerance of 0.0004" on the new diameter. BA saved \$ 1.7 million per aircraft due to the fact that they did not have re-jig the rear of the aircraft to replace the spigot.



Taileron spigot section is located at the base of the rear wing section. Item 37 shows the location of the spigots (right and left rear wings).

TORNADO ADV

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|--|------------------------|----------------------------------|------------------------------|---------------------------------|
| 1 Pilot static probe | 36 Taileron actuator | 46 Sidewinder AIM-9 L | 56 NLJNH Governor | 66 Generator control unit 1 |
| 2 Mauser 27 mm Gun | 37 Taileron spigot | 47 Landing lamp | 57 Missile programming unit | 67 IFF auto code change |
| 3 Radar altimeter | 38 Taileron | 48 Air intake auxiliary doors | 58 Sky Flash MRAAM | 68 Transformer rectifier unit 1 |
| 4 TACAN | 39 Left hydraulic pump | 49 Navigation light | 59 Lox converter | 69 Battery |
| 5 Upper IFF antenna | 40 Left generator | 50 Variable air intake ramps | 60 AICS 1 | 70 Battery bus bar |
| 6 Approach aids interface unit | 41 Flap drive | 51 Air intake ramps control unit | 61 IFF interrogator | 71 Lower TACAN antenna |
| 7 Interface unit 1 | 42 Formation light | 52 Main engine control unit 1 | 62 TV tab waveform generator | 72 Lower UHF antenna |
| 8 ACA sensor | 43 Obstruction light | 53 Pyrometer amplifier | 63 Engine health monitor | 73 Battery charger |
| 9 Air-to-air refuelling probe | 44 Slat drive | 54 Life recorder | 64 V/UHF transceiver | 74 Inertial navigator |
| 10 Ejection seat | 45 Underwing tank | 55 Vibration amplifier | 65 AC contactor 1 | 75 Radar antenna |
| 11 High lift and wing sweep control unit | | | | |
| 12 Wing sweep actuator | | | | |
| 13 UHF horn antenna | | | | |
| 14 Leading edge slats | | | | |
| 15 Spoilers | | | | |
| 16 Trailing edge flaps | | | | |
| 17 Wing box | | | | |
| 18 Upper anti-collision light | | | | |
| 19 Auxiliary power unit | | | | |
| 20 Right hydraulic pump | | | | |
| 21 Right generator | | | | |
| 22 Cross drive shaft | | | | |
| 23 Primary heat exchanger | | | | |
| 24 Airbrake | | | | |
| 25 RB 199 - MK 104 engine | | | | |
| 26 ILS antenna | | | | |
| 27 Rudder | | | | |
| 28 Upper TACAN antenna | | | | |
| 29 Upper V/UHF antenna | | | | |
| 30 ECM fairing | | | | |
| 31 Navigation light | | | | |
| 32 Fuel vent/dump outlet | | | | |
| 33 Rudder actuator | | | | |
| 34 Thrust reverser bucket (deployed) | | | | |
| 35 Airbrake actuator | | | | |



Spigot Journal

Tornado ADV

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