THRUST GATE

A/A STRUCTURE MODIFIED
STRENGTHENED

H m EXTENSION

1 Nosecone (upward hinging, housing
weather radar and ILS aerials)
2 Forward pressure-bulkhead
3 Pitot heads (two per side)
4 Two-crew flight deck with folding
observer's seat
5 Nosewheel (fully steering through \ 78".
27in diameter tyres)
6 Forward toilet
7 Forward Galley
8 Forward passenger door (34in x 72in)
9 Airstair (electrically actuated, sealed
with plug-type door)
10 Forward service door (30inx65in)
11 Avionics racks (cooled by air
conditioning ducts and blowers)
12 Cooling-air outflow valve
13 Avionics-bay access door
14 Forward freight door (51 in x48in)
15 Emergency oxygen cylinders
(passengers)
16 Air conditioners (two under central wing
box)
17 Air riser ducts (to forward and rear cabin
— 757 type)
18 Air conditioner downflow ducts
19 Overhead luggage bins
20 Anti-collision beacon
21 VHF aerial
22 HF aerials
23 Overwing emergency exits (20inx 28in,
both sides)
24 Wing/fuselage attachment frames
(forged and machined)
25 Pressure-resistant floor over
undercarriage box
26 Hydraulic reservoir and pumps
27 Rear freight door (48inx48in)
28 Rear galley
29 Rear-cabin service door (30in x 65in)
30 Rear passenger door (30in x 72in. All
doors have inflatable escape chutes)
31 Watertank(SOgal)

32 Cabin pressure-reliet and outflow
valves
33 Toilets (two)
34 Rear pressure dome
35 Access door lotailcone
36 APU ram airintake, (right side)
37 APU (self-contained in fire-proof
housing)
38 APU air-supply duct
39 Tailplane actuator (electrically driven
ball and screw)
40 Carry-through tailplane box
41 Front and rear fin-spar attachments
42 "Q" feel pressure-head
43 Rudder "feel" actuator (centreing)
44 Rudder control-guadrant
45 Rudder hydraulic actuators in tandem
46 Elevator actuators
47 Balance tabs (hydraulically locked
during normal powered operations)
48 Elevator and rudder (carbonfibre
reinforced plastic)
49 Electrically heated water drains
50 Front and rear wing spars
51 Wing structure reinforced locally (to
accommodate larger engine pylon
loads)
52 Overwing fuel fillers
53 Single refuel pressure-point. Total
capacity 5.360 US gal
54 Fuel lank centre wing 2,300 US gal
55 Wingfuel tanks 1,530 US gal each
56 Wing skin (continuous from root to tip;
tapered in all dimensions)
57 Fuel tank pressure-venl scoop
58 Ram-air intakes to air conditioners
59 Krueger flaps (trimmed to fit around
nacelles and strut)
60 Flap hydraulic actuators (Krueger flaps
programmed with trailing edge flaps)
61 Leading-edge slal (hydraulically
actuated)
62 Slat rails and rollers
63 Slat anti-icing (hot air, via telescopic tubes)

64 Aileron (cable-operated from power
packs in central wheel bay)
65 Spoilers/air brakes (hydraulically
actuated)
66 Inboard spoiler/lift dumper
67 Triple-slotted flaps
68 Hydraulic flap control unit
69 Flap driveshatt and gearboxes
70 Flap screw driveshaft tracks and rollers
71 Flap thrust-gate (moves up lo close off
engine exhaust)
72 GRP flap-track fairings
73 False auxiliary spar (Attached to
fuselage through links)
74 Undercarriage hydraulic jack
75 Main wheels (Multi disc, anti skid brakes
and 14.5-19in diameter tyres)
76 Inflatable wheel-welt seal

77 Engine bleed-air pre-cooler
78 Engine starting-air duct
79 Engine bleed-air (to air conditioners)
80 Hot air de-iced airintake
81 Engine accessories (side-mounled for
clearance)
82 Generator cooling-air outlet
83 Forward engine-mount
84 Rear engine attachments:
85 Pylon/engine mounts
86 Upper pylon attachment (to front spar)
87 Lower pylon attachment (to diagonal
bracing strut)
88 Bracing strut
89 Engine cowl panels (CFRP and Kevlar)
90 Thrust reverser panels (CFRP and
Kevlar)
91 Thrust reverser cascades
92 Pylon fairing and engine tailcone
93 Landing and taxi lamps
94 Navigation and strobe lights
95 White navigation lights
96 DME aerial
97 Wing inspection lamp
98 Static discharge wicks

£ FLIGHT International 26 November 1983 1429