

CHAPTER 3

CHAPTER 3

SYSTEMS

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CHAPTER 3

SYSTEMS

General

1. The various aircraft services in which tubing forms the linkage, i.e., the Fuel and Venting System, Hydraulic System, Pneumatic, Cabin Pressurising, Oxygen, Fire Extinguisher, De-Icing, De-Misting, and the A.S.I. System, are each dealt with in this chapter. Each service is illustrated; pipe runs and components are itemised in the usual manner.

Reference must be made to A.A.P. No. 828 for circuit diagrams and description of installations; the information here deals with the materials used in manufacture of components and methods of repair in the event of damage.

Fuel and Venting System

2. This is by far the most extensive service used in the aircraft, and includes all the fuel tanks.

Fuel Tanks

3. The main tank is situated between bulkhead No. 3 and the engine bulkhead. The shell is constructed of manganese aluminium to Specification DTD.213A enclosed in a self-sealing covering to Specification DTD.1047, whilst the reinforcing stiffeners inside the tank are made from aluminium alloy, Specification DTD.390.

Facilities for Drop Tank installation are provided under the wing and these tanks are also made of manganese aluminium to Specification DTD.213A, internal baffles and ribs are also of aluminium alloy, Specification DTD.390, but there is no self-sealing covering on the drop tanks.

The remaining fuel tanks are housed inside the wing and are Marston, flexible, self-sealing type.

The specification and type of construction is indicated on the tank outer covering, and this must be checked before carrying out any repairs, as the materials and cement differ for each specification.

The early aircraft have "Marflex" tanks, and the 10th and subsequent approximately have "Flexelite" tanks, full details of their repair being given in the manufacturer's brochures.

NOTE: Immediately flexible tanks are removed from the aircraft, they must be internally fog sprayed with corrosion preventative type 'A' Grade 2 (Ident No. K4/10414). If the main (fuselage) tank is removed, the Float Valve Assembly is to be coated with oil (Ident No. K2/145). Should the markings stencilled

on tanks be obliterated during repairs, they must be re-stencilled (in letters at least 1" high) in the same position on the outer surface as previously.

Tank Covering Repairs

4. Repairs to self-sealing covering on the main tank should be carried out in accordance with information shown A.A.P. No. 231, Chap. 7, Sectn. D, "Repair Methods for Self-Sealing Fuel Tanks."

For repair notes concerning the wing tanks, see paragraph above.

WARNING: Before carrying out any repairs, the authorised Venting Procedure should be carried out and all parts of the covering which have become swollen due to contact with fuel should be cut away.

Metal Tanks

5. Damage consisting of small smooth dents, without pronounced extremities, or sharp corners, cracks or abrasions, need not be repaired provided the damage is not near baffles or external fittings and not close to corners.

Patch Repair—Metal Tanks

6. Damage to tanks which does not exceed 4" dia. may be repaired as shown in Fig. 3/10. Trim the damage to circular shape, make and rivet a split reinforcing ring inside the tank with a washer of joint packing material interposed between the ring and the tank shell. Make a patch plate, same diameter as opening made in the tank, of similar gauge material as tank shell, and bolt through the plate and washer to the ring, using cadmium plated bolts for attachment. See Fig. 3/10 for details.

Piping

7. Cross reference from the various illustrations to the tables in this chapter will show the relative part number, material specification, size, etc., of each run of piping. Pipes are colour banded in accordance with Aircraft Engineering Instructions, Part 6, Sectn. 1, Instn. No. 2, an extract of which is given in Table No. 8, and will be of assistance in identifying the services.

Pipe Damage

8. Damage consisting of smooth isolated dents, free from cracks, and not deeper than 0.02 ins., may be regarded as negligible. Other damage will necessitate replacement of damaged section.

NOTE: Repairs to aircraft tubing are to be in accordance with Aircraft Engineering Instructions, Part 6, Section 1, Instn. No. 1.

TABLE 8
PIPE LINES — IDENTIFICATION

(Width of colour bands on pipes as referred to in list. Broad bands, $\frac{1}{2}$ " wide; narrow bands, $\frac{1}{4}$ " wide; distance between bands, $\frac{1}{8}$ " approximately.
Bands listed are narrow unless stated otherwise.)

Service.	Colour Designation.
Air (Compressed)	Broad Yellow.
Fire Extinguisher	White - Red.
Fuel	Broad Red.
Hydraulic	Broad White.
Oxygen	White - Blue.
Pitot Pressure	Nil.
Static Pressure ..	Yellow and 'S' stamped on Coupling Nut for early aircraft and Yellow - Yellow on later aircraft.
Vacuum	White - Black.
De-Icing	Brown, Broad White, Brown.

TABLE 9
FUEL AND VENTING SYSTEM
MATERIAL DETAILS

See Fig. No. 3/1, Ref. DH. Dwg. P002510, P001930.

Key No.	Port.	Starboard.	Material.	Specification.	S.W.G.	Dia. in inches.	Description.
1.	P00657ND	P00657ND	Rubber Hose	6F7	—	2 i/d	Connection, Hose
2.	P002717ND	P002718ND	Alum. Alloy	DTD. 310	20	$\frac{1}{4}$ o/d	Pipe, Pressure
3.	P002713ND	P002714ND	Alum. Alloy	DTD. 310	20	$\frac{1}{2}$ o/d	Pipe, Pressure
4.	P002709ND	P002710ND	Alum. Alloy	DTD. 310	20	$\frac{1}{2}$ o/d	Pipe, Pressure
5.	P002701ND	P002702ND	Alum. Alloy	DTD. 310	20	$\frac{3}{4}$ o/d	Pipe, Fuel Transfer
6.	P002711ND	P002712ND	Alum. Alloy	DTD. 310	20	$\frac{3}{4}$ o/d	Pipe, Fuel Transfer
7.	P002496A	P002496A	Dural	L. 1 or DTD. 423	—	—	Connector, Vent Pipe
8.		00P103AND	Alum.	T.9	20	$\frac{3}{4}$ o/d	Pipe Assy., Venting
9.		P002671ND	Alum. Alloy	DTD. 310	20	1 o/d	Pipe, Venting
10.		P002656	Alum. Alloy	L. 40 or L. 39	—	—	Banjo Connection
11.		P001583A	—	—	—	—	Mounting Fuel Cock Assy.
12.	P002049A	P002050A	Stores Ref. Nos. A79/500001 and A79/500057	—	—	—	Tank Drop Assy.
13.	P002715ND	P002716ND	Alum. Alloy	DTD. 310	20	$\frac{1}{2}$ o/d	Pipe, Fuel Transfer
14.	P002580ND	P002580ND	Alum. Alloy	DTD. 310	20	$\frac{1}{2}$ o/d	Pipe, Fuel Transfer
15.	P002727ND	P002728ND	Alum. Alloy	DTD. 310	22	1 o/d	Pipe, Fuel
16.	P002705ND	P002706ND	Alum. Alloy	DTD. 310	20	$\frac{3}{4}$ o/d	Pipe, Fuel Transfer
17.	P002729ND	P002730ND	Alum. Alloy	DTD. 310	22	1 o/d	Pipe, Fuel
18.	P001919ND	P001919ND	Alum. Alloy	DTD. 310	22	1 o/d	Pipe, Fuel
19.	00P59ND	00P60ND	Alum. Alloy	DTD. 310	20	$\frac{3}{4}$ o/d	Pipe, Vent
20.	P00727ND	P00728ND	Alum. Alloy	DTD. 310	20	$\frac{1}{2}$ o/d	Pipe, Pressure
21.	P001131A	—	Stores Ref. No. A79/501318	—	—	—	Pipe Assy., Fuel
22.	P00131ND	—	Flylite No. 4. Stores Ref. No. T32C/418	—	—	1 o/d	Connection, Hose
23.	00L95AND	—	Alum.	T. 9	20	—	Pipe Assy., Pressure
24.		P002678ND	Alum. Alloy	DTD. 310	20	$\frac{3}{4}$ o/d	Pipe, Fuel
25.		P002680ND	Alum.	T. 9	—	—	Pipe Assy., Drain
26.		P002679ND	Alum. Alloy	DTD. 310	20	$\frac{3}{4}$ o/d	Pipe, Fuel
27.	AH019208	AH019208	Stores Ref. No. T27G/2081	—	—	—	Valve, Pres. Reducing
28.	—	00L101AND	Alum.	T. 9	20	—	Pipe Assy., Pressure

TABLE 9 (Continued)

Key No.	Port.	Starboard.	Material.	Specifica- tion.	S.W.G.	Dia. in inches.	Description.
29.	—	00P95AND	Copper	T.7	20	1 o/d	Pipe Assy., Fuel
30.	AM907P	AM907S	Stores Ref. Nos. A79/501610 and A79/501611	—	—	—	Tank No. 4, Wing
31.	AM906P	AM906S	Stores Ref. Nos. A79/501608 and A79/501609	—	—	—	Tank No. 3, Wing
32.	P003179ND	P003179ND	(Fuel Resistant, non-kink)	—	—	$\frac{3}{4}$ i/d	Hose, Fuel Transfer
33.	P003177ND	P003177ND	(Fuel Resistant, non-kink)	—	—	$\frac{1}{2}$ i/d	Hose, Pressure
34.	P002723ND	P002724ND	Alum. Alloy DTD. 310	20	—	$\frac{3}{4}$ o/d	Pipe, Venting
35.	AM905P	AM905S	Stores Ref. Nos. A79/501606 and A79/501607	—	—	—	Tank No. 2, Wing
36.	P002719AND	P002720ND	Alum. T. 9	20	—	—	Pipe Assy., Vent
37.	P002707AND	P002708ND	Alum. Alloy DTD. 310	20	—	$\frac{3}{4}$ o/d	Pipe, Venting
38.	P002699ND	P002700ND	Alum. Alloy DTD. 310	20	—	$\frac{3}{4}$ o/d	Pipe, Venting
39.	AM904P	AM904S	Stores Ref. Nos. A79/501604 and A79/501605	—	—	—	Tank No. 1, Wing
40.	—	00P109AND	Stores Ref. No. A79/501789	—	—	—	Pipe Assy.
41.	P002512 or 00P117	P002512 or 00P118	Stores Ref. No. A79/501348	—	—	—	Hose, Fuel
42.	—	P002654	Dural L. 1 or DTD. 423A	—	—	—	Adaptor, Pipe Assy.
43.	—	P002515A	—	—	—	—	Distance Piece and Ring
44.	—	P001615AND	Alum. T. 9	20	—	$\frac{3}{4}$ o/d	Pipe Assy., Vent
45.	—	00P91A	Stores Ref. No. A79/501677	—	—	—	Elbow Assy., Fuel
46.	P002739ND	P002740ND	Alum. Alloy DTD. 310	20	—	$\frac{3}{4}$ o/d	Pipe, Vent
47.	P002703ND	P002704ND	Alum. Alloy DTD. 310	20	—	$\frac{1}{2}$ o/d	Pipe, Pressure
48.	—	P002655	Alum. Alloy DTD. 423A	—	—	—	Banjo Connection
49.	—	00P73	Dural L. 1 or DTD. 423	—	—	—	Nut, Cap
50.	—	P002530	Mild Steel Bar S. 6 or S. 1	—	—	—	Bolt, Banjo
51.	—	00P79AND	Stores Ref. No. (Hose only) T32C/419	—	—	—	Hose Assy., Flexible
52.	—	00P47A	Stores Ref. No. A79/501493	—	—	—	Hose Assy., Flexible
53.	—	P001537ND	Alum. Alloy DTD. 310	20	—	$\frac{3}{4}$ o/d	Pipe, Vent
54.	—	00L85AND	Alum. Alloy L. 56	20	—	$\frac{1}{4}$ o/d	Pipe Assy., Pressure
55.	—	00L91AND	Stores Ref. No. A79/501601	—	—	—	Pipe Assy., Pressure
56.	—	P002470A	Stores Ref. No. A79/501335	—	—	—	Tank Main in Fuselage

TABLE 10
HYDRAULIC SYSTEM
MATERIAL DETAILS

See Fig. No. 3/2, Ref. DH. Dwg. No. Q00286A, Q003089,
Q00287A, Q00439A,
Q00455, Q0026,
Q001, L002039,
Q003001.

Key No.	Part No.	Material.	Specifica- tion.	S.W.G.	Dia. in inches.		Description.
1.	Q00616ND	Alum. Alloy	DTD. 310	22	3/8	o/d	Pipe, Return to Tank
2.	L002125ND	Alum. Alloy	DTD. 310	20	3/8	o/d	Pipe, Tank Vent
3.	L002057ND	Steel	DTD. 503	20 or 22	3/8	o/d	Pipe, H.P. from Pump
4.	00Q69ND	Alum. Alloy	DTD. 310	22 or 22	1/2	o/d	Pipe, Engine Pump Suction
5.	Q00622ND	Alum. Alloy	DTD. 310	20 or 22	3/8	o/d	Pipe, Return to Tank
6.	Q00624ND	Alum. Alloy	DTD. 310	20 or 22	3/8	o/d	Pipe, Hand Pump Suction
7.	Q00353ND	ASteel	DTD. 503	24	3/16	o/d	Pipe, D.B. 'Off'
8.	Q00352ND	ASteel	DTD. 503	24	3/16	o/d	Pipe, D.B. 'On'
9.	AIR40022	Stores Ref. No. T27M/457	—	—	—	—	Jack, Dive Brake
10.	AIR34490	Stores Ref. No. T27M/7781	—	—	—	—	Hose, D.B. Jack
11.	AIR31832	Stores Ref. No. T27M/7778	—	—	—	—	Hose, D.B. Jack
12.	AIR31832	Stores Ref. No. T27M/7778	—	—	—	—	Hose, Flap Jack
13.	AIR31836	Stores Ref. No. T27M/7780	—	—	—	—	Hose, Flap Jack
14.	AIR40008	Stores Ref. No. T27M/455	—	—	—	—	Jack, Flap
15.	Q00359ND	Steel	DTD. 503	24	3/16	o/d	Pipe, Flap Up
16.	Q00358ND	Steel	DTD. 503	24	3/16	o/d	Pipe, Flap Down
17.	AIR40010	Stores Ref. No. T27M/456	—	—	—	—	Jack, Undercarriage
18.	AIR34492	Stores Ref. No. T27M/7779	—	—	—	—	Hose, Undercarriage Jack
19.	AIR31836	Stores Ref. No. T27M/7780	—	—	—	—	Hose, Undercarriage Jack
20.	Q00362ND	Steel	DTD. 503	24	3/16	o/d	Pipe, Undercarriage 'Up'
21.	Q00361ND	Steel	DTD. 503	24	3/16	o/d	Pipe, Undercarriage 'Down'
22.	Q00357ND	Steel	DTD. 503	24	3/16	o/d	Pipe, D.B. 'Off'
23.	Q00356ND	Steel	DTD. 503	24	3/16	o/d	Pipe, D.B. 'On'
24.	Q00355ND	Steel	DTD. 503	24	3/16	o/d	Pipe, Flap 'Up'
25.	Q00354ND	Steel	DTD. 503	24	3/16	o/d	Pipe, Flap 'Down'
26.	Q00608A	Stores Ref. No. A79/501031	—	—	—	—	Reservoir, Hydraulic
27.	AIR40542	Stores Ref. No. T27M/485	—	—	—	—	Jack, Nosewheel
28.	AIR34490	Stores Ref. No. T27M/7781	—	—	—	—	Hose, Nosewheel 'Up'
29.	Q00618ND	Alum. Alloy	DTD. 310	20 or 22	3/8	o/d	Pipe, Hand Pump Suction
30.	Q00628ND	Alum. Alloy	DTD. 310	20 or 22	3/8	o/d	Pipe, Tank Vent
31.	00L115ND	Steel	DTD. 503	20	1/2	o/d	Pipe, L.P. to Pump
32.	AIR31832	Stores Ref. No. T27M/7780	—	—	—	—	Hose, Nosewheel 'Down'
33.	Q00441ND	Steel	DTD. 503	24	3/16	o/d	Pipe, Nosewheel 'Up'
34.	Q00443ND	Steel	DTD. 503	24	3/16	o/d	Pipe, Nosewheel 'Down'
35.	Q00877ND	Alum. Alloy	DTD. 310	20	3/8	o/d	Pipe, Tank Vent
36.	00Q73ND	Alum. Alloy	DTD. 310	20 or 22	1/2	o/d	Pipe, Pump Suction
37.	Q00313ND	Steel	DTD. 503	24	3/16	o/d	Pipe, Undercarriage 'Up'
38.	Q00314ND	Steel	DTD. 503	24	3/16	o/d	Pipe, Undercarriage 'Down'
39.	Q00306ND	Steel	DTD. 503	24	3/16	o/d	Pipe, D.B. 'Off'
40.	Q00305ND	Steel	DTD. 503	24	3/16	o/d	Pipe, D.B. 'On'
41.	Q00310ND	Steel	DTD. 503	24	3/16	o/d	Pipe, Flap 'Up'
42.	Q00309ND	Steel	DTD. 503	24	3/16	o/d	Pipe, Flap 'Down'
43.	Q00307ND	Steel	DTD. 503	24	3/16	o/d	Pipe, D.B. 'Off'
44.	Q00308ND	Steel	DTD. 503	24	3/16	o/d	Pipe, D.B. 'On'
45.	Q00337ND	Steel	DTD. 503	24	3/16	o/d	Pipe, D.B. 'Off'
46.	Q00339ND	Steel	DTD. 503	24	3/16	o/d	Pipe, D.B. 'On'
47.	Q00312ND	Steel	DTD. 503	24	3/16	o/d	Pipe, Flap 'Up'
48.	Q00311ND	Steel	DTD. 503	24	3/16	o/d	Pipe, Flap 'Down'
49.	UMC501	Stores Ref. No. T27W/1	—	—	—	—	Pump, Hand
50.	Q00446ND	Alum. Alloy	DTD. 310	22	3/16	o/d	Pipe, Hand Pump Pressure
51.	AIR40504	Stores Ref. No. T27M/559	—	—	—	—	Valve, Bypass
52.	Q00506ND	Steel	DTD. 503	24	1/4	o/d	Pipe, Pressure to Selectors
53.	Q00508ND	Steel	DTD. 503	24	1/4	o/d	Pipe, Return from Selectors
54.	Q0036ND	Steel	DTD. 503	24	3/16	o/d	Pipe, Pressure from Hand Pump
55.	Q00504ND	Steel	DTD. 503	24	1/4	o/d	Pipe, Pressure to Selectors
56.	Q00510ND	Steel	DTD. 503	24	1/4	o/d	Pipe, Pressure to Selectors
57.	AIR40272	Stores Ref. No. T27M/453	—	—	—	—	Valve, U/C Selector

TABLE 10 (Continued)

Key No.	Part No.	Material.	Specifica- tion.	S.W.G.	Dia. in inches.	Description.
58.	00Q65ND	Alum. Alloy	DTD. 310	20 or 22	3/8 o/d	Pipe, Hand Pump Suction
59.	Q00502ND	Steel	DTD. 503	22	3/8 o/d	Pipe, Accum. Pressure
60.	Q00494ND	Steel	DTD. 503	22	3/8 o/d	Pipe, Dive Brake Pressure
61.	Q00490ND	Steel	DTD. 503	22	3/8 o/d	Pipe, Dive Brake 'Off'
62.	AIR4072	Stores Ref. No. T27M/453	—	—	—	Valve, Dive Brake Suction
63.	AIR40272	Stores Ref. No. T27M/453	—	—	—	Valve, Flap Selector
64.	00Q61ND	Alum. Alloy	DTD. 310	20 or 22	3/8 o/d	Pipe, Return from Cut-Out Valve
65.	Q00498ND	Steel	DTD. 503	22	3/8 o/d	Pipe, Dive Brake Return
66.	Q00222A	—	—	—	—	Valve, Cut-Out Assy.
67.	Q00486ND	Steel	DTD. 503	22	3/8 o/d	Pipe, Dive Brake 'On'
68.	Q00500ND	Steel	DTD. 503	22	3/8 o/d	Pipe, Engine Pump Pressure
69.	Q00488ND	Steel	DTD. 503	22	3/8 o/d	Pipe, Dive Brake 'On'
70.	Q00492ND	Steel	DTD. 503	22	3/8 o/d	Pipe, Dive Brake 'Off'
71.	Q00496ND	Steel	DTD. 503	22	3/8 o/d	Pipe, Dive Brake Pressure
72.	AIR40018	Stores Ref. No. T27M/434	—	—	—	Valve, Pressure Relief
73.	Q00826ND	Steel	DTD. 503	24	3/16 o/d	Pipe, to Press. Release Valve
74.	Q00824ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Return from Press. R./Valve
75.	Q002214ND	Tungum	DTD. 323	20	.080 bore	Pipe, Flaps 'Up'
76.	Q002213ND	Tungum	DTD. 323	20	.080 bore	Pipe, Flaps 'Down'
77.	Q00484ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Undercarriage 'Down'
78.	Q00482ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Undercarriage 'Up'
79.	Q003063ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Dive Brake 'Off'
80.	Q003064ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Dive Brake 'Off'
81.	Q003056ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Flaps 'Up'
82.	Q003043ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Undercarriage 'Down'
83.	Q003059ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Flaps 'Up'
84.	Q003055ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Flaps 'Down'
85.	Q003047ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Undercarriage 'Up'
86.	Q003051ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Dive Brake 'On'
87.	Q003023ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Dive Brake 'Off'
88.	Q003027ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Flap 'Up'
89.	Q003029ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Flap 'Down'
90.	Q003035ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Undercarriage 'Up'
91.	Q003031ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Undercarriage 'Down'
92.	Q003025ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Dive Brake 'On'
93.	Q003060ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Dive Brake 'On'
94.	Q003052ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Flaps 'Down'
95.	Q003048ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Undercarriage 'Up'
96.	Q003044ND	Steel	DTD. 503	24	3/16 o/d	Pipe, Undercarriage 'Down'
97.	AIR40016	Stores Ref. No. T27M/461	—	—	—	Accumulators
98.	Q00175A	Stores Ref. No. A79/500988	—	—	—	Clip

TABLE 11
PNEUMATIC SYSTEM
MATERIAL DETAILS

See Fig. 3/3, Ref. DH. Dwg. Q00706A.

Key No.	Port.	Part No.	Starboard.	Material.	Specifica- tion.	S.W.G.	Dia. in inches.	Description.
1.		L002397ND		Aluminium	DTD. 310	22	1/4 o/d	Pipe
2.		L001355ND		Made from AGS.1106B		—	—	Adaptor
3.		Q003033		Aluminium	DTD. 310	22	1/4 o/d	Pipe
4.	Stores Ref. No. G6A/1754 or G6A/2157					—	—	Gauge Press. Brake
5.		Q00724ND		Aluminium	DTD. 310	22	3/16 o/d	Pipe
6.		Q00588ND		Aluminium	DTD. 310	22	3/16 o/d	Pipe
7.		Q00590ND		Aluminium	DTD. 310	22	3/16 o/d	Pipe
8.		AH8241		Stores Ref. No. T27G/2014		—	—	Unit Brake Differen- tial
9.		Q00585ND		Aluminium	DTD. 310	22	1/4 o/d	Pipe
10.	Q00589ND			Aluminium	DTD. 310	22	1/4 o/d	Pipe
11.		Q00587ND		Aluminium	DTD. 310	22	1/4 o/d	Pipe
12.	Q00512ND			Aluminium	DTD. 310	22	1/4 o/d	Pipe
13.		Q00467ND		Aluminium	DTD. 310	22	1/4 o/d	Pipe
14.		Q00316ND		Aluminium	DTD. 310	22	1/4 o/d	Pipe
15.		Q00315ND		Aluminium	DTD. 310	22	1/4 o/d	Pipe
16.	Q003039ND			Aluminium	DTD. 310	22	1/4 o/d	Pipe
17.		Q00514ND		Aluminium	DTD. 310	22	1/4 o/d	Pipe
18.		Q003040ND		Aluminium	DTD. 310	22	1/4 o/d	Pipe
19.		Q00363ND		Aluminium	DTD. 310	22	1/4 o/d	Pipe
20.		Q00360ND		Aluminium	DTD. 310	22	1/4 o/d	Pipe
21.		Q00703ND		Aluminium	DTD. 310	22	1/4 o/d	Pipe
22.				Stores Ref. No. G6D/128		—	—	Cylinder Comp., Air
23.				Stores Ref. No. N37G/704		—	—	Regulator Air
24.		Q00872A				—	—	Panel Unit Assy.
25.				Stores Ref. Nos. N27G/653 or N37G/652		—	—	Trap, Oil
26.		Q00907ND		Aluminium	DTD. 310	20	1/4 o/d	Pipe
27.		Q00873ND		Aluminium	DTD. 310	20	1/4 o/d	Pipe
28.		Q00701ND		Aluminium	DTD. 310	20	1/4 o/d	Pipe
29.		AGS.1200		Stores Ref. No. H28C/10145		—	—	Valve, Inflation
30.		Q00721		Stores Ref. No. A79/501048		—	—	Adaptor, Inflation
31.		AHO.5712		Stores Ref. No. T27G/2022		—	—	Valve
32.		AHO.2337		Stores Ref. No. T27G/1994		—	—	Valve, Pressure Re- ducing
33.		Q00905ND		Aluminium	DTD. 310	20	1/4 o/d	Filter, Air
34.		Q00720		Stores Ref. No. A79/501047		—	—	Pipe
35.		Q00889ND		Aluminium	DTD. 310	20	1/4 o/d	Adaptor, Air Cylinder
36.		Q00717A				—	—	Pipe
37.	Q00164	Q00164		Alclad	DTD. 390	12	—	Clip, Cylinder
38.	AHO.16203	AHO.16203		Stores Ref. No. A79/501420		—	—	Bracket
39.	Q00207ND	Q00208ND		Aluminium	DTD. 310	20	1/4 o/d	Hose, Upper
40.	AHO.17731	AHO.17731		Stores Ref. No. A79/501419		—	—	Pipe
41.	Q00167Mk.1	Q00167Mk.1				—	—	Hose, Lower
42.	Q00201A	Q00201A		Stores Ref. No. A79/500383		—	—	Plate, Locking
43.	Q00169	Q00170		Alclad	DTD. 390	14	—	Elbow, Reducing
				or L.38		—	—	Bracket
44.	Q00188	Q00188		M.S.B.	S. 21	—	—	Special Bolt
45.	Q00168	Q00168		L. Alloy	DTD. 423A	—	—	Block

TABLE 12
PRESSURE CABIN AIR SYSTEM
MATERIAL DETAILS

See Fig. 3/4, Ref. DH. Dwg. Q00561.

Key No.	Part No.	Material.	Specifica- tion.	S.W.G.	Dia. in inches.	Description.
1.	R00385ND	Alum. Alloy	DTD. 310	20	1 o/d	Pipe, Cabin Air
2.	L002163ND	Aluminium	T. 9	20	1/4 o/d	Pipe, Canopy Seal
3.	R0035A	Stores Ref. No.	A79/501386	—	—	Valve, Non-Return Canopy Seal
4.	L002159ND	Alum. Alloy	DTD. 310	20	1/4 o/d	Pipe, Canopy Seal
5.	L002145	Alum. Alloy	DTD. 310	20	1/2 o/d	Pipe, Vacuum Pump
6.	L002095ND	Alum. Alloy	DTD. 310	20	1/2 o/d	Pipe, Vacuum Pump
7.	—	Stores Ref. No.	N37J/102	—	—	Valve Suction Regulator
8.	00R17AND	Aluminium	T.9	20	—	Pipe, Cabin Air
9.	A001169C	P.V.C. Tube	—	4 m/m bore	8 m/m o/d	Connector
10.	Q002089ND	Alum. Alloy	DTD. 310	22	1/4 o/d	Pipe, Canopy Seal
11.	Q003091ND	Alum. Alloy	DTD. 310	22	1/2 o/d	Pipe, Vacuum Pump
12.	R00421ND	Aluminium	T. 9	18	2 o/d	Pipe, Cabin Air
13.	Q002088ND	Alum. Alloy	DTD. 310	22	1/4 o/d	Pipe, Canopy Seal
14.	C.349	Stores Ref. No.	T27F/1897	—	—	Cock, Vickers, 3-Way
15.	Q00596ND	Alum. Alloy	DTD. 310	22	1/2 o/d	Pipe, Vacuum Pump, Aft
16.	00Q77ND	Rubber	DTD. 373	—	5/16 i/d x 7"	Hose to Vacuum Valve
17.	Q002081	Rubber	DTD. 373	—	3/16 i/d x 16"	Hose to Blind Flying Panel
18.	Q00868ND	Rubber	DTD. 373	—	3/8 i/d x 6"	Hose to Vacuum Valve
19.	00Q9ND	Alum. Alloy	DTD. 310	22	1/4 o/d	Pipe
20.	—	Stores Ref. No.	T27H/2767	—	—	Cabin Pressure Valve Mk. 9
21.	A.1713 Mk.1	Stores Ref. No.	N37J/18004	—	—	Valve, Vickers Vacuum
22.	Q002087ND	Alum. Alloy	DTD. 310	22	1/4 o/d	Pipe to Vacuum Valve
23.	Q00736ND	Alum. Alloy	DTD. 310	22	1/4 o/d	Pipe, Canopy Seal
24.	R00418A	Stores Ref. No.	A79/501105	—	—	Air Regulator, Cabin
25.	AD.1303	Stores Ref. No.	A79/500063	—	—	Air Cooler, Cabin
26.	Q002086ND	Alum. Alloy	DTD. 310	22	1/4 o/d	Pipe, Canopy Seal
27.	R0094A	Alum. Alloy	DTD. 231A	18	—	Connector, Hose
28.	R00805A	Stores Ref. No.	A79/501106	—	—	Valve, Non-Return
29.	R00386ND	Aluminium	T. 9	20	1 o/d	Pipe, Cabin Air
30.	Q003097ND	Alum. Alloy	DTD. 310	22	1/4 o/d	Pipe, Canopy Seal
31.	R00819ND	Aluminium	T. 9	20	1 o/d	Pipe, Cabin Air
32.	R00809	Light Alloy	DTD. 133	—	—	Bulkhead Connection
33.	AH0.19682	Stores Ref. No.	T27G/2090	—	—	Valve, Pressure Reducing, Dunlop

TABLE 13
OXYGEN SYSTEM
MATERIAL DETAILS

See Fig. 3/5, Ref. DH. Dwg. Q0010A.

Key No.	Part No.	Material.	Specifica- tion.	S.W.G.	Dia. in inches.	Description.
1.	—	Stores Ref. No.	G6D/10966 (Type 11C)	—	—	Regulator, Pressure
2.	Q00408ND	Copper	T. 51	16	1/4 o/d	Pipe, to Elbows
3.	Q001003ND	Aluminium	T. 9	22	5/16 o/d	Pipe, Low Pressure
4.	AGS.838 Series	Stores Ref. No.	H28/5104	—	—	Couplings, Pipe
5.	Q001004ND	Aluminium	T. 9	22	5/16 o/d	Pipe, Low Pressure
6.	00Q3ND	Copper	T. 51	16	1/4 o/d	Pipe
7.	Q00765ND	Copper	T. 51	16	1/4 o/d	Pipe
8.	—	Stores Ref. No.	G6D/223	—	—	Valve, Control
9.	Q98176	Stores Ref. No.	A79/501078	—	—	Cap, Ground Charging Point
10.	Q00402ND	Copper	T. 51	16	1/4 o/d	Pipe, Ground Charging Point to Filter
11.	—	Stores Ref. No.	G5D/574	—	—	Filter
12.	Q00403ND	Copper	T. 51	16	1/4 o/d	Pipe
13.	—	Stores Ref. No.	G6D/483 (Mk. 5C)	—	—	Cylinder
14.	Q00404ND	Copper	T. 51	16	1/4 o/d	Pipe
15.	Q00405ND	Copper	T. 51	16	1/4 o/d	Pipe
16.	—	Stores Ref. No.	G6D/756 (Mk. 7)	—	—	Piece, 5-Way
17.	00Q19	Stores Ref. No.	A79/501515	—	—	Elbow
18.	—	Stores Ref. No.	G6D/1363 or G6D/479	—	—	Economiser and Cover Assembly
19.	Q00138	Stores Ref. No.	A79/500981	—	—	Adaptor
20.	—	Stores Ref. No.	G6D/642	—	—	Label, Filter
21.	Q00142	—	—	—	—	Plate, Washer

TABLE 14
FIRE EXTINGUISHER SYSTEM
MATERIAL DETAILS

See Fig. 3/6, Ref. DH. Dwg. L001975.

Key No.	Part No.	Material.	Specifica- tion.	S.W.G.	Dia. in inches.	Description.
1.	L002021A	Stores Ref. No. A79/500907	—	—	—	Hose Assembly
2.	L002023AND	Brass or Tungum	BS886 or DTD. 323	20	1/2 o/d	Pipe
3.	L002025AND	Alum. Alloy	DTD. 310	20	1/2 o/d	Pipe Assembly incl. AGS.904/D and AGS.902/D
4.	—	Stores Ref. No. W21F/372	—	—	—	Bracket, Mounting
5.	—	Stores Ref. No. W21F/371 (Mk.2) or W21F/5643 (Mk.2) modified	—	—	—	Bottle, Fire Extinguisher
6.	L002033	Steel	S. 3	18	—	Bracket (4 Off)
7.	L002031	Tufnol	—	—	—	Mounting Block

TABLE 15
DE-ICING SYSTEM
MATERIAL DETAILS

See Fig. 3/7, Ref. DH. Dwg. Q0011A.

Key No.	Part No.	Material.	Specifica- tion.	S.W.G.	Dia. in inches.	Description.
1.	Q002048ND	Rubber	DTD. 344A	—	1/4" bore	Tube
2.	Q00366ND	Alum. Alloy	DTD. 310	20	1/4 o/d	Pipe
3.	A001866AND	—	—	—	—	Spray Unit Assembly
4.	—	Stores Ref. No. T27F/1870	—	—	—	Pump, De-Icer
5.	Q00369ND	Alum. Alloy	DTD. 310	20	3/16 o/d	Pipe
6.	Q002040A	Stores Ref. No. A79/501059	—	—	—	Tank Assembly
7.	Q00364ND	Alum. Alloy	DTD. 310	20	3/16 o/d	Pipe
8.	Q00371ND	Alum. Alloy	DTD. 310	20	3/16 o/d	Pipe

TABLE 16
DE-MISTING SYSTEM
MATERIAL DETAILS

See Fig. 3/8, Ref. DH. Dwg. A002310A.

Key No.	Part No.	Material.	Specifica- tion.	S.W.G.	Dia. in inches.	Description.
1.	A004862	Stores Ref. No. A79/501544, OS-B763	—	—	—	Connector, Schraeder Pump
2.	A001169C	Polyvinyl	—	4 m/m bore	8 m/m o/d	Tube
3.	A002312	Aluminium	T. 9	20	1/4 o/d	Pipe
4.	A001111	Stores Ref. No. A79/500565	—	—	—	Adaptor
5.	A001170ND	P.R. Hose	F. 7	—	5/16" bore	Hose
6.	A002424A	Stores Ref. No. A79/500576	—	—	—	Pipe Assembly, Air Drier
7.	S981788A	Stores Ref. No. A79/501179	—	—	—	Container
8.	Vokes A12681	Stores Ref. No. T27F/26600	—	—	—	Filter
9.	S981806	Rubber	Good qual.	1/16"	3" bore	Hose, Connecting
10.	S981809A	Stores Ref. No. A79/501187	—	—	—	Valve Assembly

TABLE 17
AIRSPEED INDICATING SYSTEM
MATERIAL DETAILS

*See Fig. 3/9, Ref. DH. Dwg. Q00561A, Q003089A,
Q00287A, Q001020A,*

Key No.	Part No.	Material.	Specifica- tion.	S.W.G.	Dia. in inches.	Description.
1.	Q002416ND	Braided Inst. Tubing	DTD. 373	—	5/16 i/d	Pipe
2.	—	Stores Ref. No. G6A/3672	—	—	—	Machmeter
3.	Q00465ND	Alum. Alloy	DTD. 310	22	5/16 o/d	Pipe
4.	Q002227	Braided Inst. Tubing	DTD. 373	—	5/16 i/d	Pipe
5.	Q00592ND	Alum. Alloy	DTD. 310	22	5/16 o/d	Pipe
6.	—	Stores Ref. No. G106A/50266-2	—	—	—	Air Speed Indicator
7.	Q00466ND	Alum. Alloy	DTD. 310	22	5/16 o/d	Pipe
8.	Q00304ND	Alum. Alloy	DTD. 310	22	5/16 o/d	Pipe
9.	Q00303ND	Alum. Alloy	DTD. 310	22	5/16 o/d	Pipe
10.	Q00857ND	Alum. Alloy	DTD. 310	22	5/16 o/d	Pipe
11.	Q00664ND	Alum. Alloy	DTD. 310	22	5/16 o/d	Pipe
12.	Q00665ND	Alum. Alloy	DTD. 310	22	5/16 o/d	Pipe
13.	Q001017ND	Alum. Alloy	DTD. 310	22	5/16 o/d	Pipe
14.	Q001015ND	Alum. Alloy	DTD. 310	22	5/16 o/d	Pipe
15.	Q001022ND	Copper	T. 7	22	3/16 o/d	Pipe
16.	—	Stores Ref. No. G6A/729	—	—	—	Pressure Head Mk. 8B
17.	Q00606A Mk.2	Stores Ref. No. A79/501030	—	—	—	Drain Trap Static
18.	Q00862ND	Alum. Alloy	DTD. 310	22	5/16 o/d	Pipe
19.	Q00606A	Stores Ref. No. A79/501030	—	—	—	Drain Trap Pressure
20.	Q00594ND	Alum. Alloy	DTD. 310	22	5/16 o/d	Pipe
21.	Q001019ND	Copper	T. 7	22	3/16 o/d	Pipe

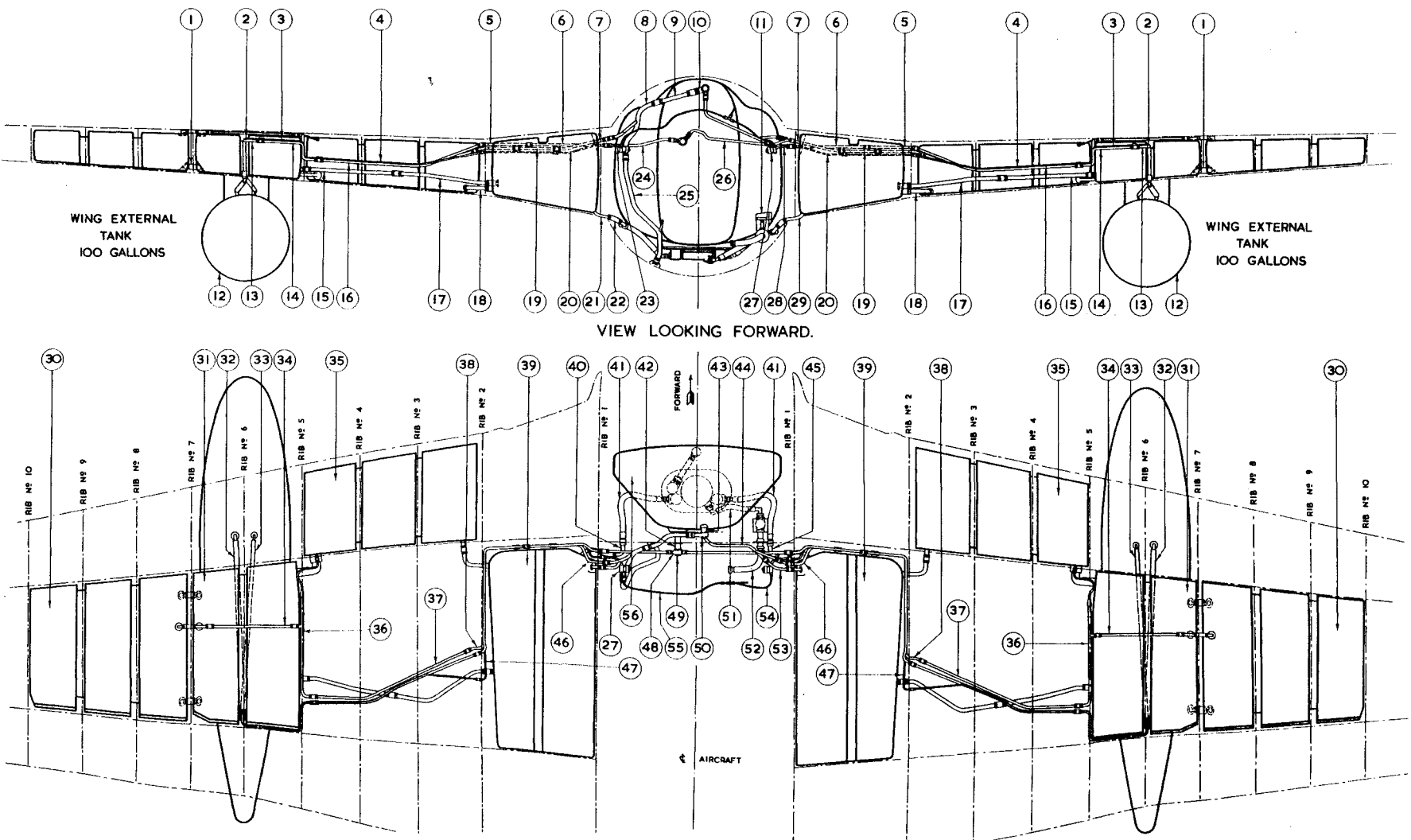


FIG. 3/1

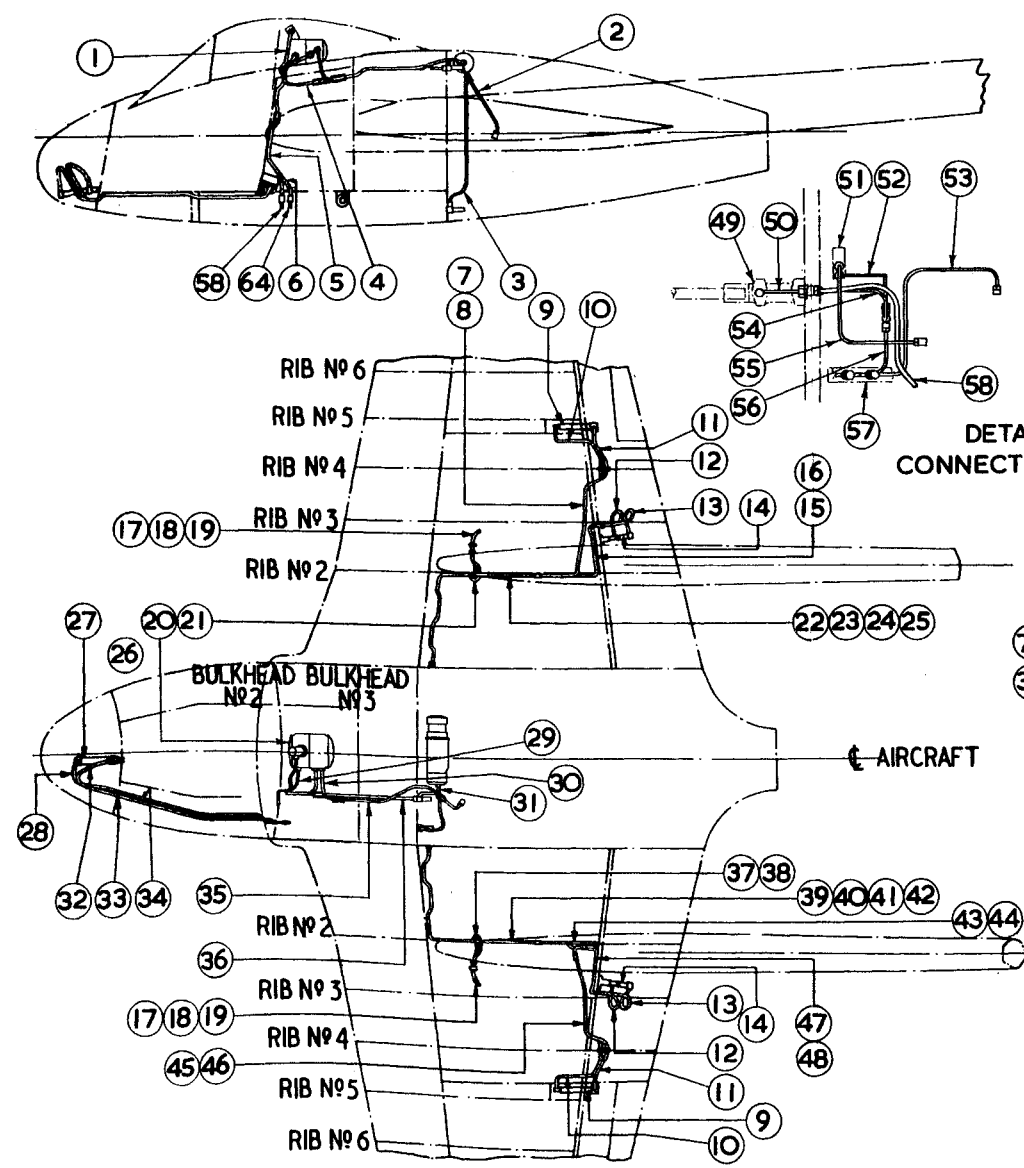
FUEL AND VENTING SYSTEM

FIG. 3/1

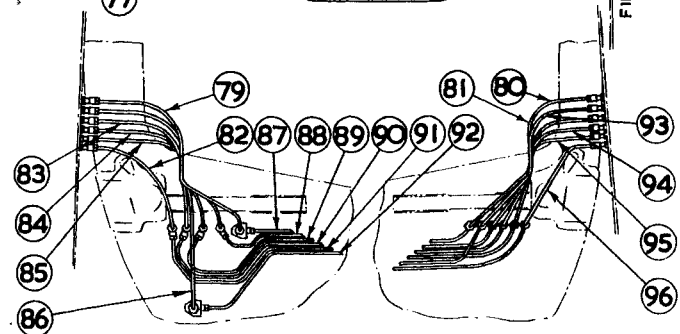
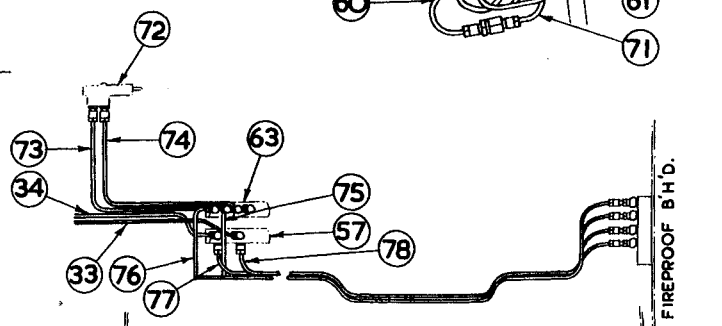
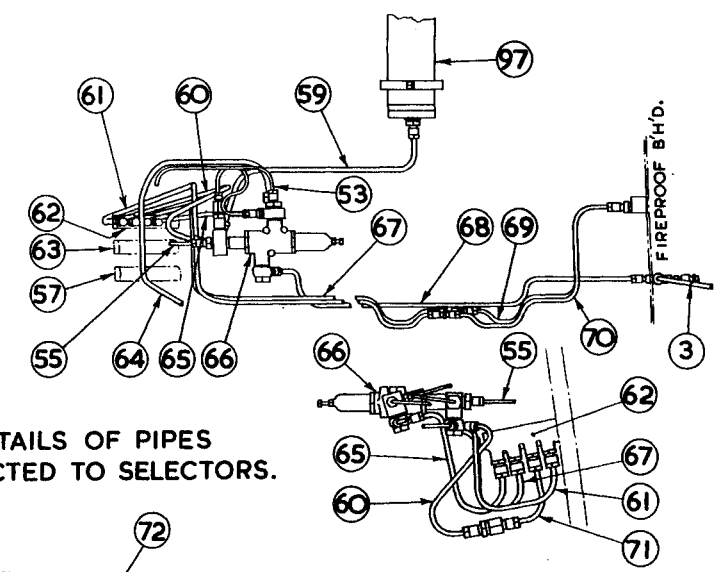
FIG. 3/2

HYDRAULIC SYSTEM

FIG. 3/2



DETAILS OF PIPES CONNECTED TO SELECTORS.

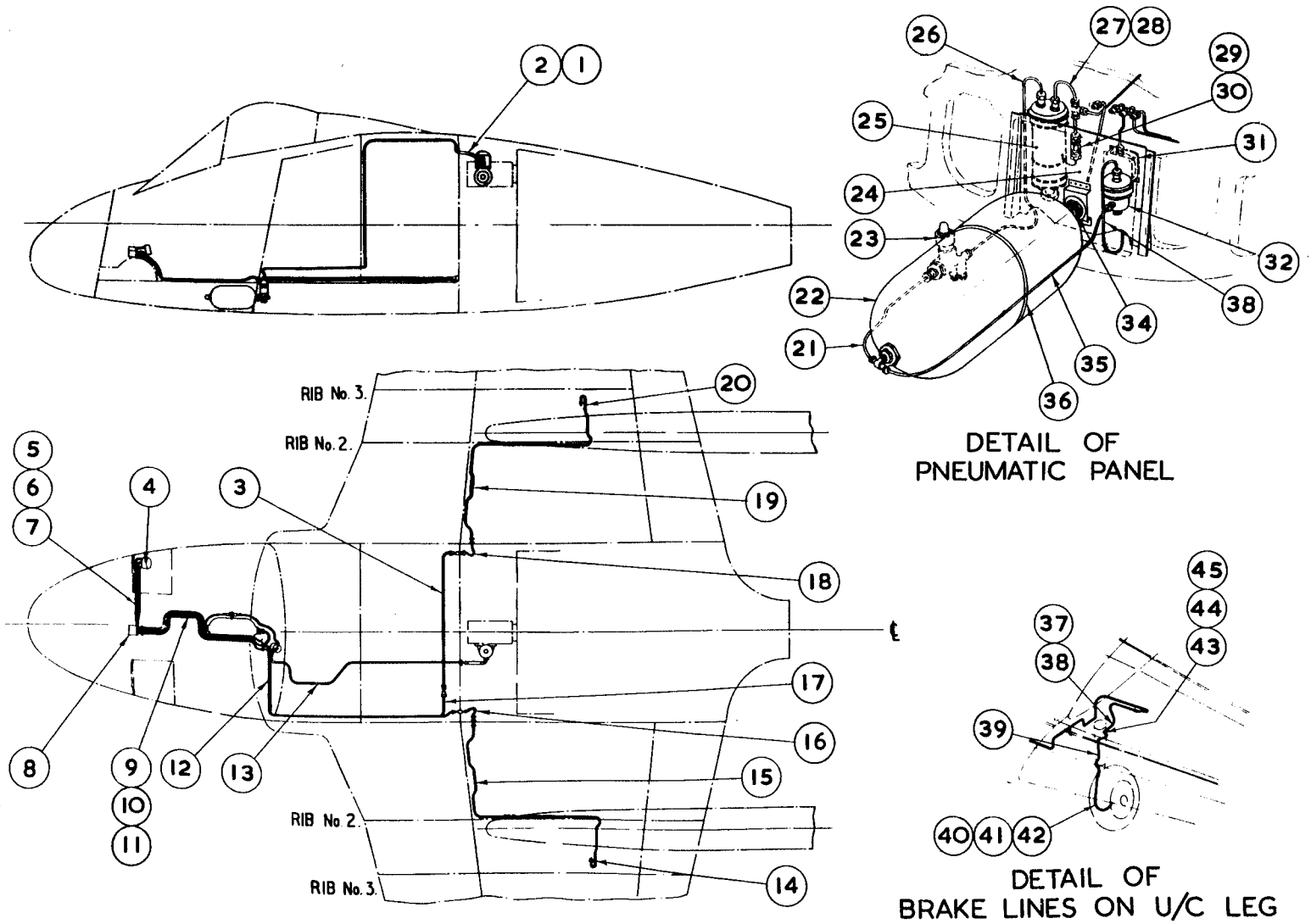


DETAIL OF PIPES ON FIREPROOF B'H'D.

FIG. 3/3

PNEUMATIC SYSTEM

FIG. 3/3



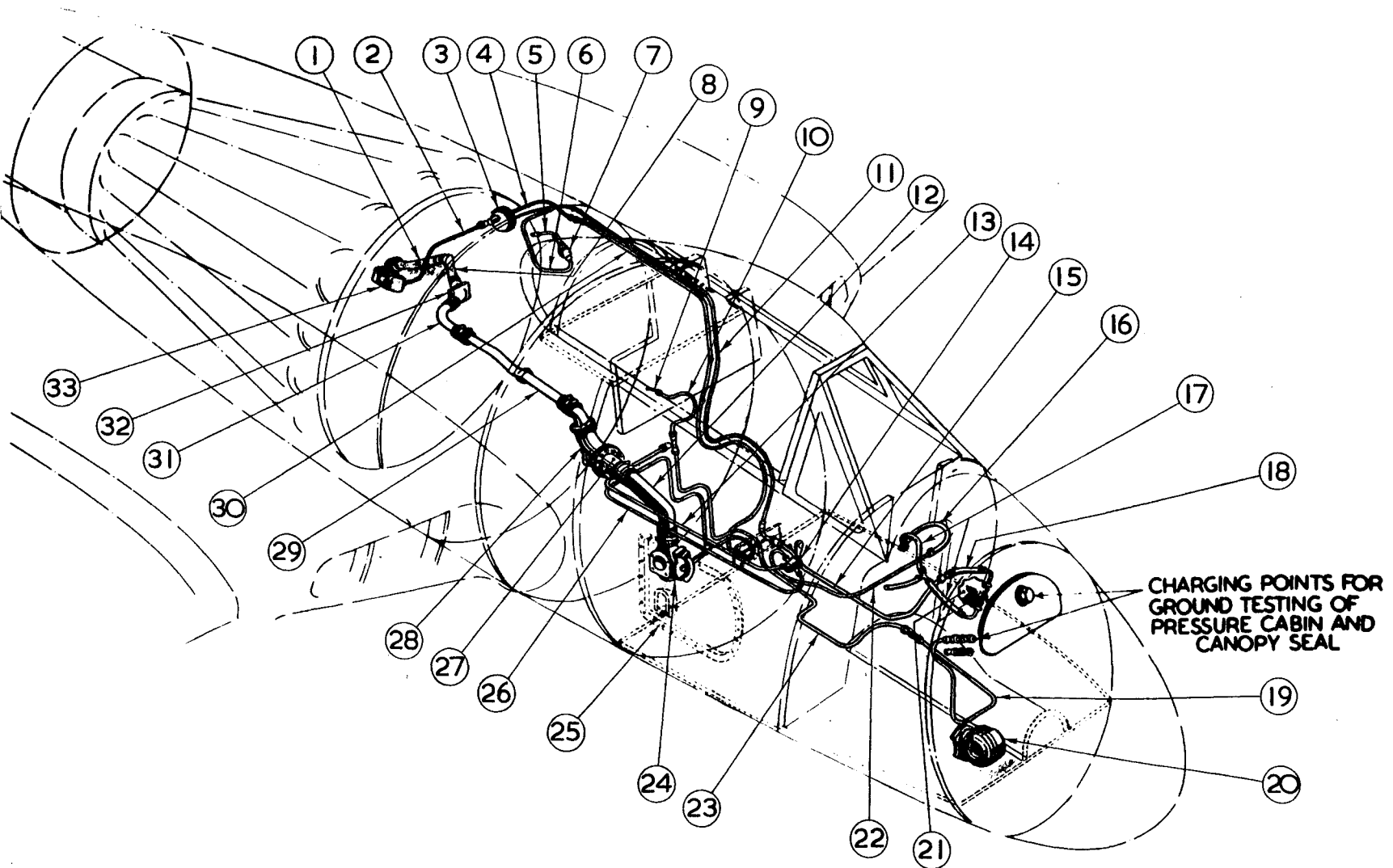
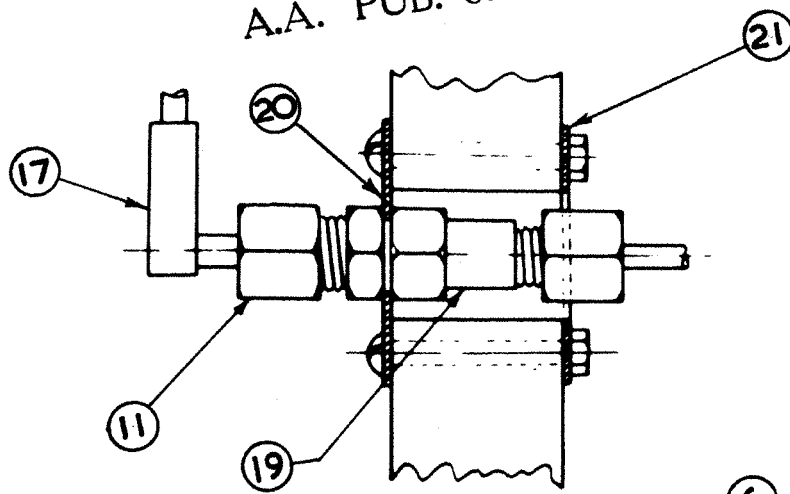


FIG. 3/4

CABIN PRESSURISING

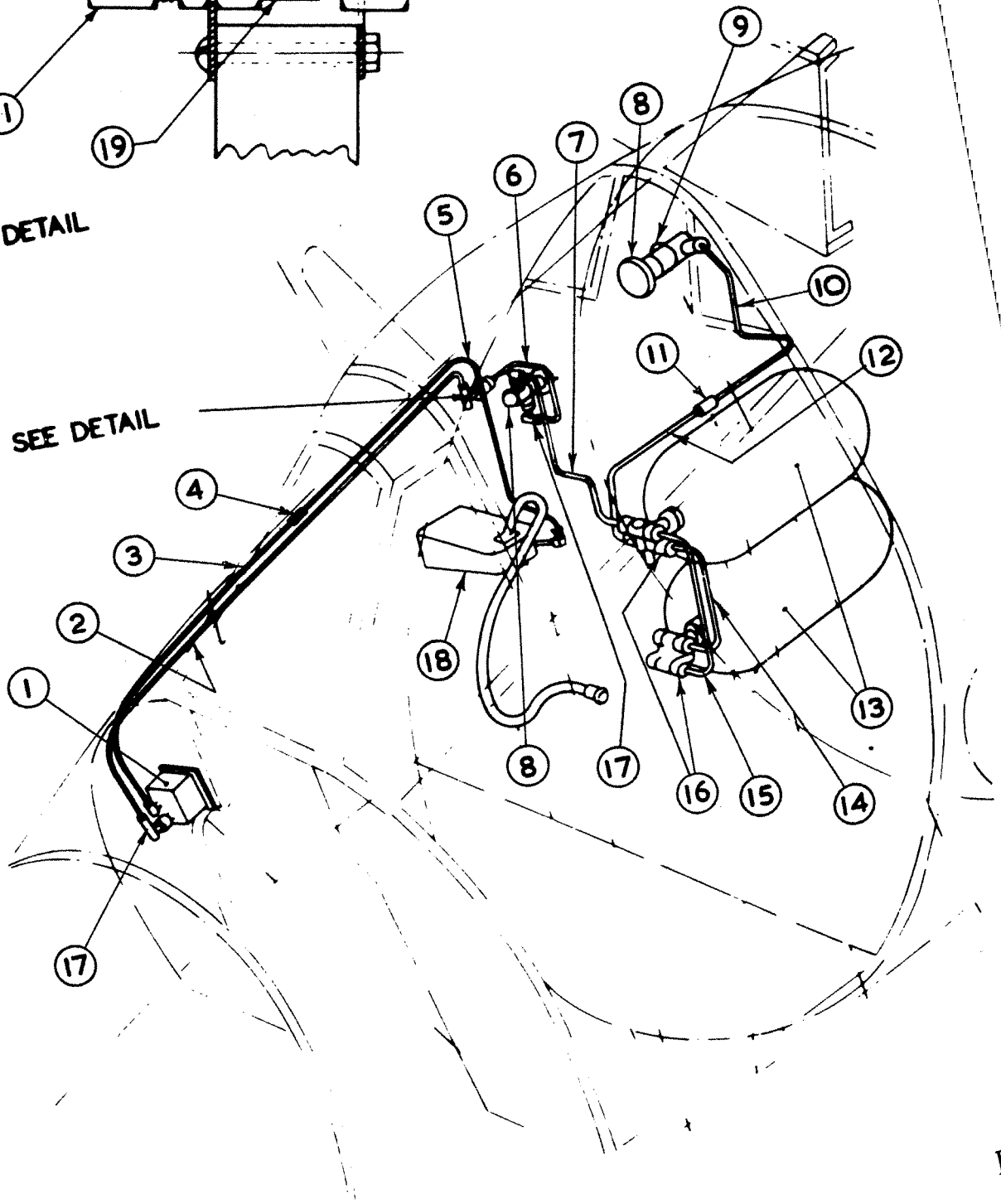
FIG. 3/4

A.A. PUB. 851



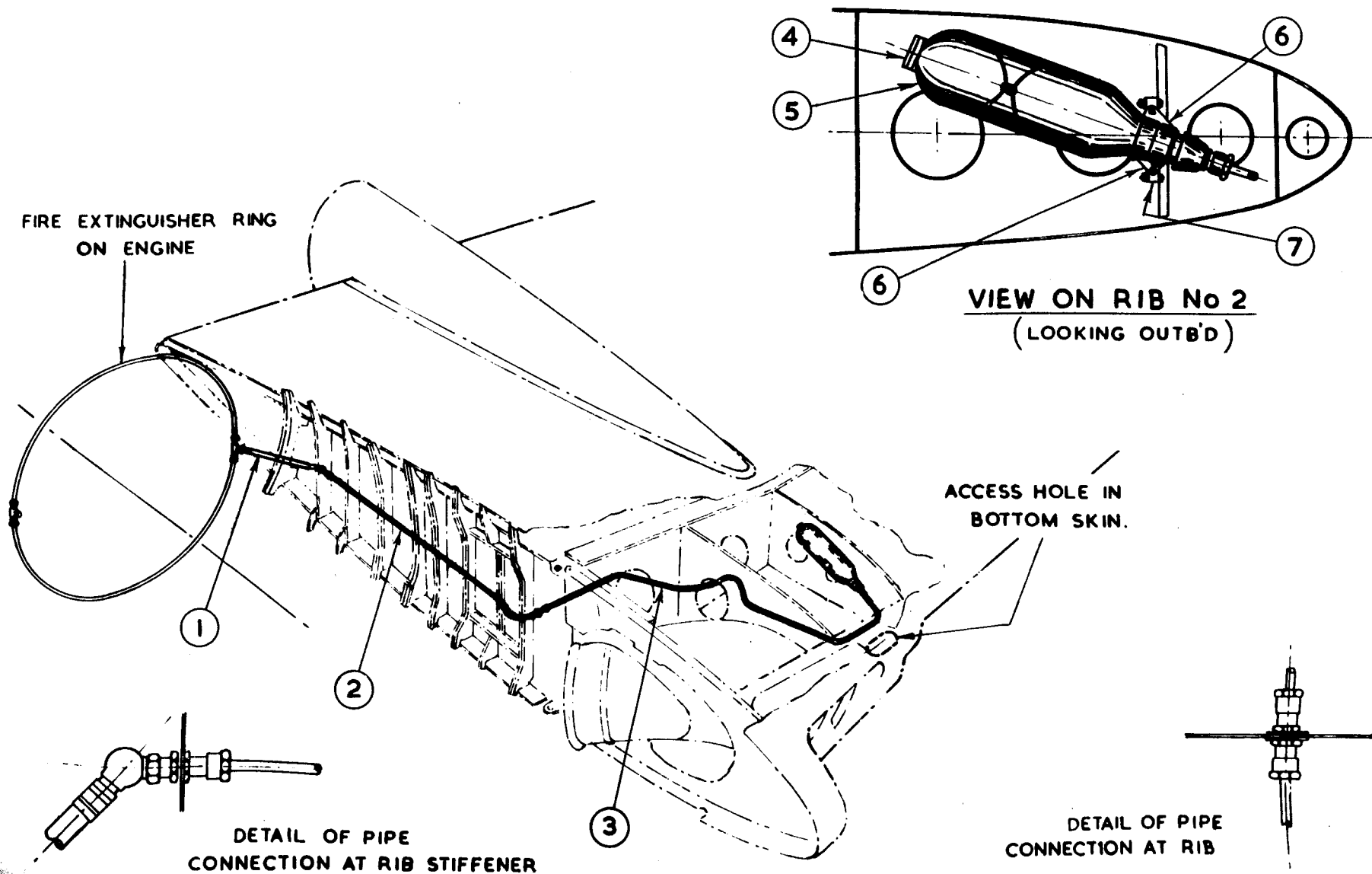
DETAIL

SEE DETAIL



OXYGEN SYSTEM

FIG. 3/5



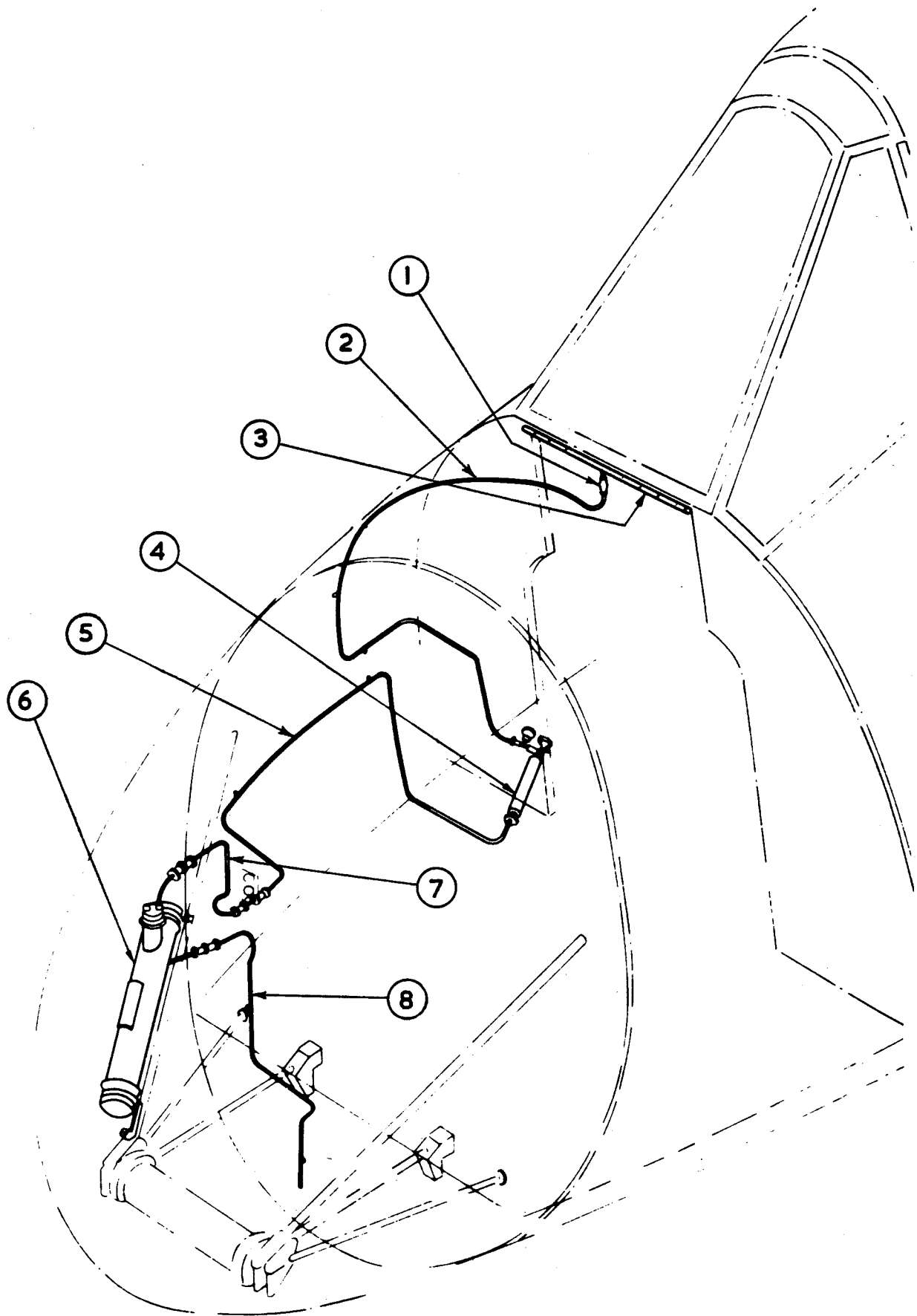


FIG. 3/7

WINDSCREEN ANTICLER SYSTEM

FIG. 3/7

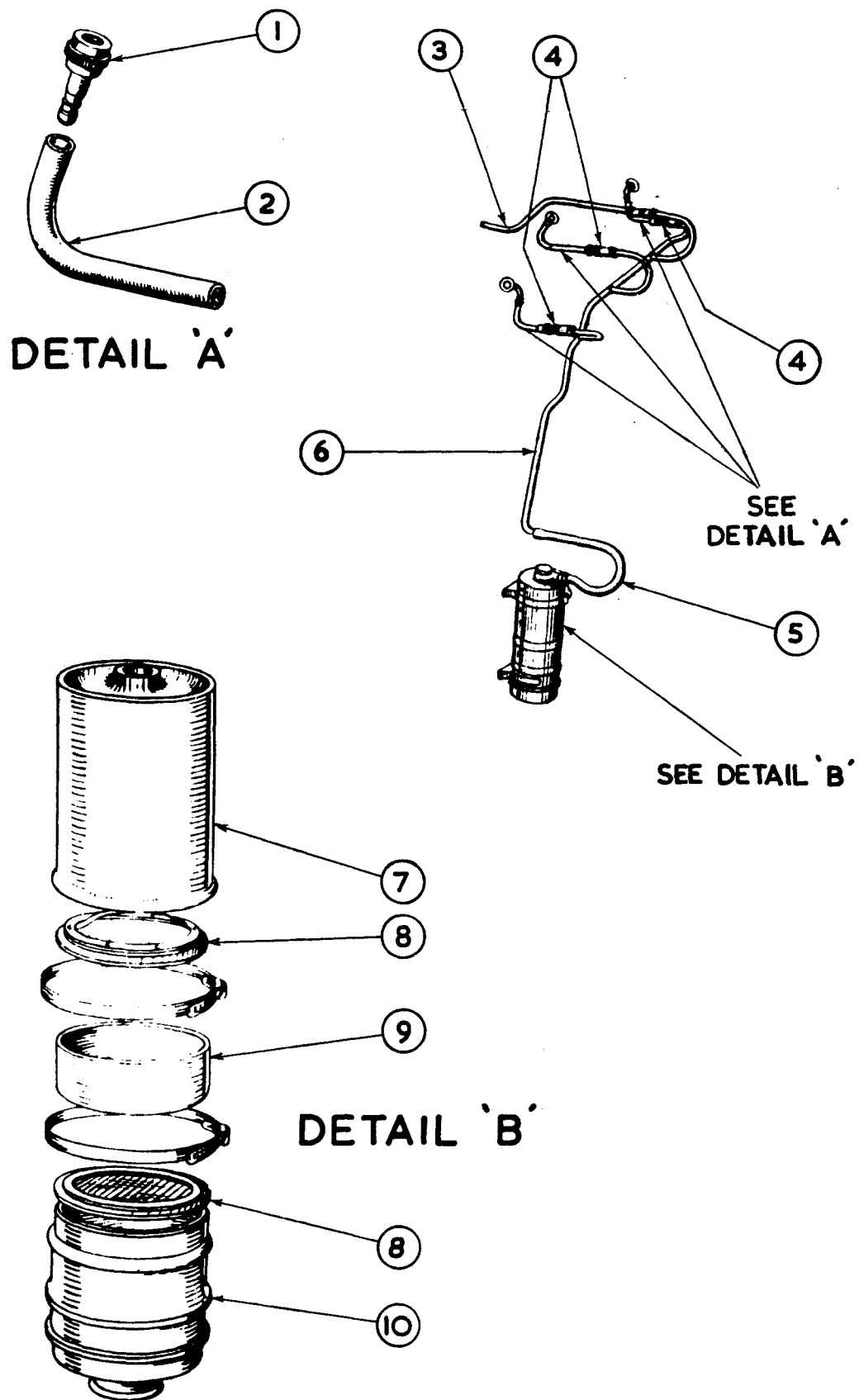


FIG. 3/8

DE - MISTING SYSTEM

FIG. 3/8

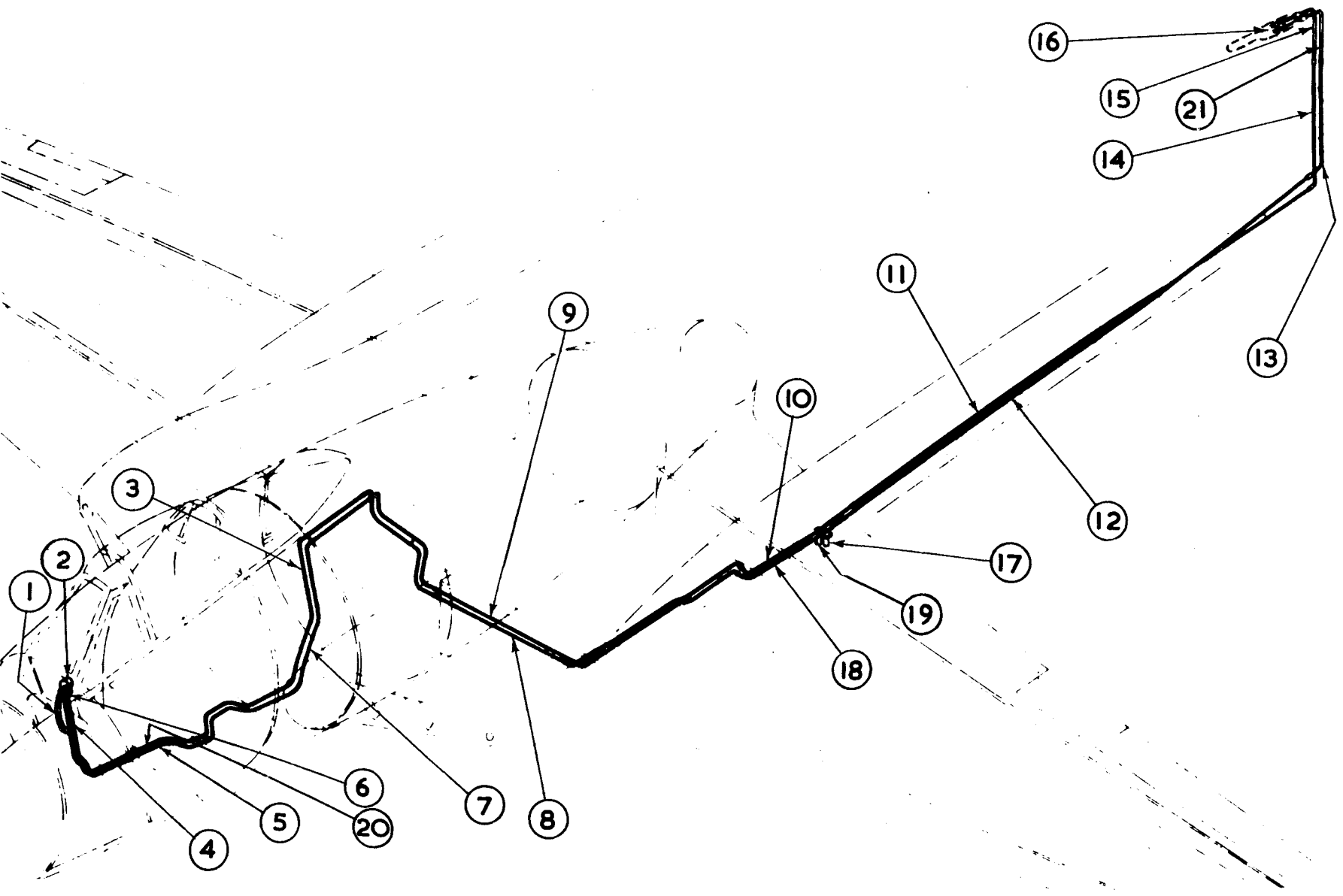
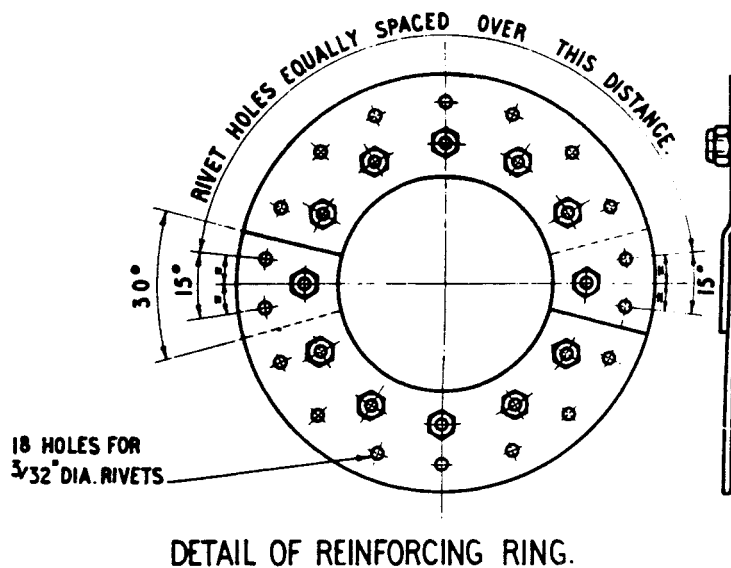
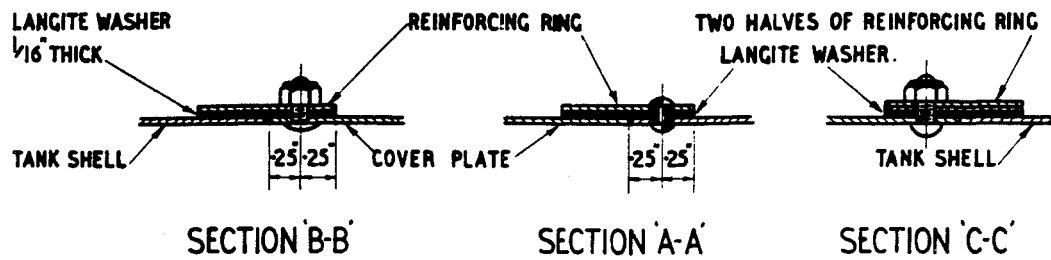
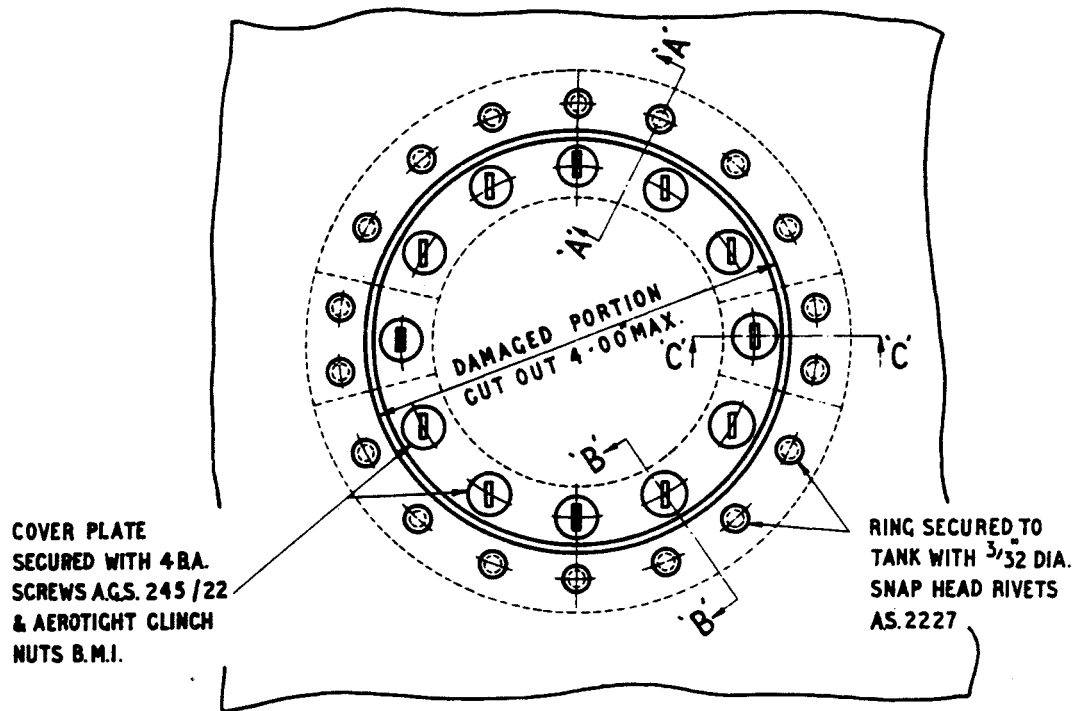


FIG.3/9

AIR SPEED INDICATOR SYSTEM

FIG.3/9



REINFORCING RING MADE IN TWO HALVES ONE END OF EACH HALF JOGGLED AS SHOWN SO THAT THE ENDS OVERLAP. THE TWO HALVES ARE FASTENED TOGETHER WHEN RING IS RIVETED TO TANK.

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