

CHAPTER 3

SYSTEMS

CHAPTER 3

SYSTEMS

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Tanks

General information

1. There are nine fuel tanks in the aircraft. The main tank is constructed of manganese aluminium alloy to Specification D.T.D.213A with self sealing covering to Specification D.T.D.1053 (see fig. 3/1) and is in the main fuselage between the firewall and No. 3 bulkhead. The wing tanks, items 6, 29, 32 and 33, may be of similar construction to the main tank in some Mark 3 aircraft but usually they are Marston bag-type tanks of "Formvar" material to Specification D.T.D.1094. All tanks are self sealing and repair methods for large damage to the Marston tanks are now in process of perfecting. Two additional drop tanks are fitted (item 41) to the underside of the main plane at rib No. 6. All fuel passes into the main tank for delivery to the engine. The hydraulic tank, of similar material to the main tank, is fitted to the canopy fairing and, with the general run of hydraulic pipes, is shown

in fig. 3/2. The pneumatic, vacuum, oxygen and fire extinguisher systems are shown in fig. No. 3/4, 3/5, and 3/6, and facing each will be found a key table referenced to the various items, together with particulars of replacements. Further details can be ascertained by reference to A.P.4117A.

Pressure-testing after repair

2. After repair, a tank must be tested as set out in the following table before being refitted to the aircraft:—

Tank	Material	Test pressure per sq. in.
Main fuel tank	Manganese alum.	4.1 lb.
Wing fuel tanks	Formvar	1.0 lb.
No. 1		
No. 2		
No. 3		
No. 4		
Hydraulic tank	Manganese alum.	2.25 lb.

Tank straps

3. Usually the tank attachment straps are replaced complete with end fittings but, as an emergency repair, the end fittings can be detached from a damaged strap and a new strap riveted to them.

Piping

4. The illustrations, together with the key tables facing, give a list of the pipes used in the various systems, and fig. No. 3/8 shows the assembly of fuel pipe end fittings.

Negligible and repairable damage definitions

5. The table overleaf defines permissible negligible damage and lists the illustrations of repairs for the defined damage.

TANKS, TANK STRAPS AND PIPING

Definitions of negligible and repairable damage

Component	Damage definition		Repair fig. No.	Repair material item No.	Key diagram fig. No.
	Negligible	Repairable			
Metal tanks, fuel and hydraulic	Small, smooth dents which do not occur near baffles or external fittings, nor are close to corners	Patch repair to manganese aluminium tanks (items 1, 2 and 3) for damage, 4.0 in. dia.	3/7	12. 62	3/1
Tank straps	Dents up to 0.25 in. dia.	Replacement of end fittings	See para. 3 above	24	3/1 to 3/6
Piping— Rigid	Smooth, isolated dents up to 0.02 in. deep	In accordance with instructions in A.P.1464D, Vol. 1, Part 2, Sect. 3, Chap. 3			
Flexible	—	Replacement of end fittings	3/8		

FUEL AND VENTING SYSTEM

Key to Items shown on Fig. 3/1

Mark 3 Aircraft

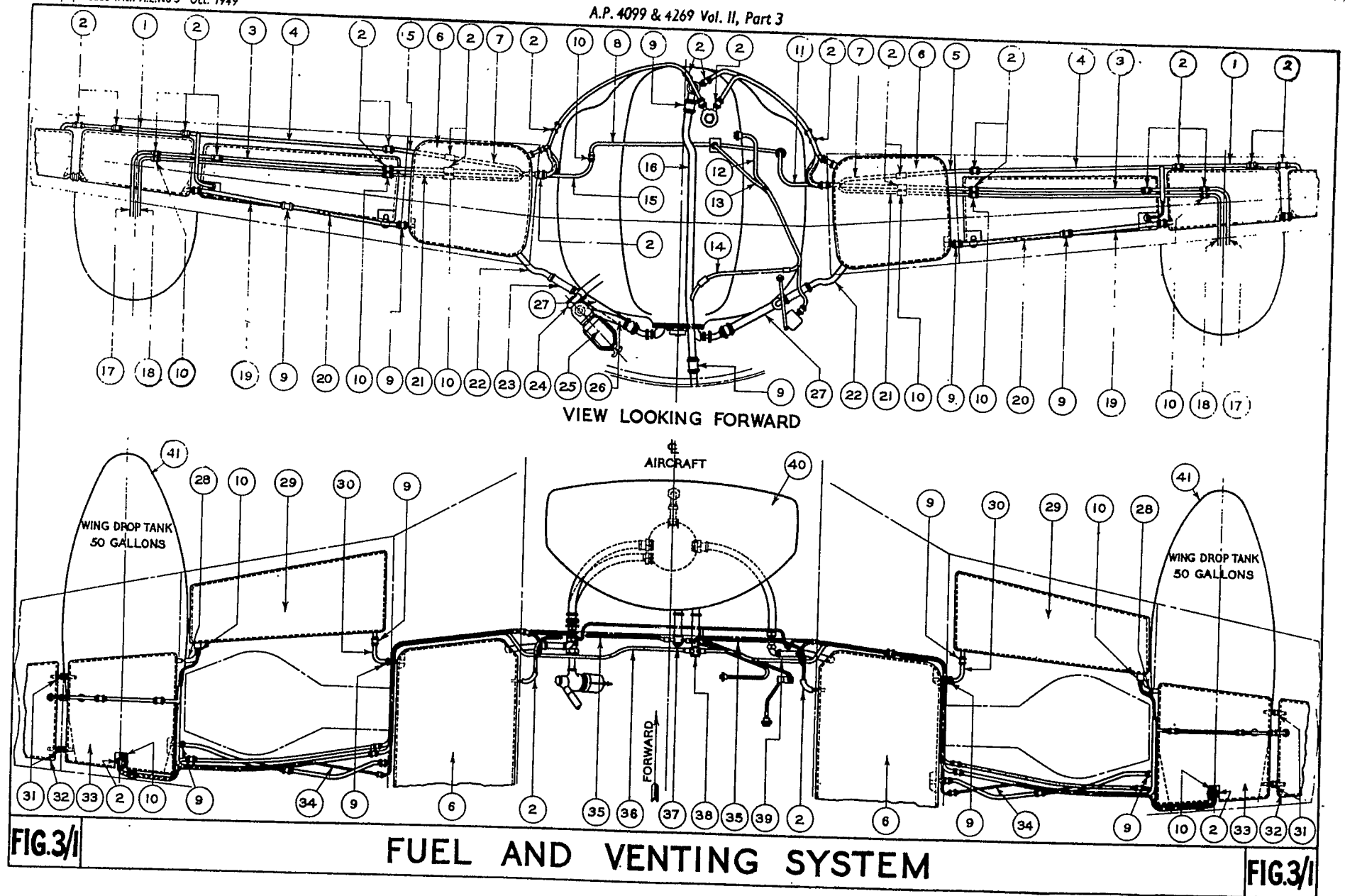
Key No.	Part No.		Material	Specification	S.W.G.	Diameter	Description
	L.H.	R.H.					
1	P.00917	P.00917	Aluminium alloy	D.T.D.310	20	$\frac{3}{4}$ in. o/d	Fuel transfer pipe
2	—	Flexible	Hose	—	—	$\frac{1}{2}$ in. i/d	Hose connection
3	P.002579ND	P.002579ND	Aluminium alloy	D.T.D.310	20	$\frac{3}{4}$ in. o/d	Fuel transfer pipe
4	P.001907ND	P.001907ND				$\frac{3}{4}$ in. o/d	
5	P.001906ND	P.001906ND				$\frac{3}{4}$ in. o/d	
6	AM.528 P	AM.528 S				$\frac{3}{4}$ in. o/d	
7	P.00274ND	P.00274ND	Aluminium alloy	D.T.D.310	20	$\frac{3}{4}$ in. o/d	Wing tank No. 1
8	P.00444A	—	Aluminium	T.9	—	$\frac{3}{4}$ in. o/d	Fuel transfer pipe
9	—	Flexible	Hose	—	—	$\frac{1}{2}$ in. i/d	Fuel vent pipe
10	—	Flexible	Hose	—	—	$\frac{1}{2}$ in. i/d	Hose connection
11	P.00306ND	—	Aluminium alloy	D.T.D.310	20	$\frac{1}{2}$ in. o/d	Vent pipe
12	L.002200ND	—			22	$\frac{1}{2}$ in. o/d	Drain pipe
13	P.001193AND	—			20	$\frac{1}{2}$ in. o/d	Vent pipe
14	L.001157ND	—			22	$\frac{1}{2}$ in. o/d	Drain pipe
15	P.00304ND	—	Aluminium	T.9	20	$\frac{1}{2}$ in. o/d	Vent pipe
16	P.001987A	—			17G	1-0 in. o/d	Tank vent pipe
17	P.001913ND	P.001913ND			20	$\frac{3}{4}$ in. o/d	Fuel vent pipe
18	P.001918ND	P.001918ND			20	$\frac{3}{4}$ in. o/d	Vent pipe
19	P.001905ND	P.001905ND	Aluminium alloy	D.T.D.310	22	1-0 in. o/d	Fuel pipe
20	P.001904ND	P.001904ND			22	1-0 in. o/d	Fuel pipe
21	P.001915ND	P.001915ND			20	$\frac{1}{2}$ in. o/d	Vent pipe
22	P.001131A	P.001132A	Copper	T.7	20	1-0 in. o/d	Feed pipe
23	P.00131ND	P.00131ND	Flexatex	Grade 7	—	1-0 in. i/d	Flexible hose
24	—	—	—	—	—	—	Banjo, fuel filter Assembly
25	—	—	Spe-Kog	P.20.B.500 G.P.H.	—	—	Fuel filter
26	P.002009	—	—	—	—	$1\frac{1}{2}$ in. bore	Fuel pipe
27	P.002027	P.002027	—	—	—	1-0 in. bore	Flexible hose
28	P.001806	P.001807	—	—	—	—	Rubber elbow
29	AM.570 P	AM.570 S	Aluminium alloy	D.T.D.310	22	1-0 in. o/d	Wing tank No. 2
30	P.001919ND	P.001919ND				2-0 in. i/d	Fuel pipe
31	P.00657ND	P.00657ND				—	Hose connection
32	AM.573P	AM.573S				—	Wing tank No. 4
33	AM.571P	AM.571S	Aluminium alloy	D.T.D.310	20	$\frac{1}{2}$ in. o/d	Wing tank No. 3
34	P.001916ND	P.001916ND				$\frac{1}{2}$ in. o/d	Vent pipe
35	P.002619ND	P.002620ND			20	$\frac{3}{4}$ in. o/d	Vent pipe
36	P.002759ND	—			20	$\frac{3}{4}$ in. o/d	Fuel transfer pipe
37	P.001184	—	—	D.T.D.424/D7 or D.T.D.425 casting	—	—	Banjo
38	P.002559	—	Aluminium alloy	D.T.D.424/D7 or D.T.D.425 casting	—	—	Banjo
39	P.002760	—	—	D.T.D.310	20	$\frac{3}{4}$ in. o/d	Fuel transfer pipe
40	P.002423A	—	—	—	—	—	Assembly of main fuel tank
41	P.002049A	P.002050A	—	—	—	—	Assembly of drop tank

FUEL AND VENTING SYSTEM

Key to Items shown on Fig. 3/1

ASSEMBLY P.00677 (Mark 5 and Mark 20 Aircraft)

Key No.	Part No.		Material	Specification	S.W.G.	Diameter	Description
	L.H.	R.H.					
1	P.002723ND	P.002724ND	Aluminium alloy	D.T.D.310	20	$\frac{3}{4}$ in. o/d	Fuel transfer pipe
2	—	—	Flexible hose	—	—	$\frac{3}{4}$ in. i/d	Hose connection
3	P.002707ND	P.002708ND	Aluminium alloy	D.T.D.310	20	$\frac{3}{4}$ in. o/d	Fuel transfer pipe
4	P.002705ND	P.002706ND				$\frac{3}{4}$ in. o/d	
5	P.002821ND	P.002822ND				$\frac{3}{4}$ in. o/d	
6	AM.904P	AM.904S				$\frac{3}{4}$ in. o/d	
7	P.002711ND	P.002712ND	Aluminium alloy	D.T.D.310	20	$\frac{3}{4}$ in. o/d	Wing tank No. 1
8	P.00444A	—	Aluminium	T.9	—	—	Fuel transfer pipe
9	—	—	Flexible hose	—	—	—	Fuel vent pipe
10	—	—	Flexible hose	—	—	1-0 in. i/d	Hose connection
11	P.00306ND	—	Aluminium alloy	D.T.D.310	20	$\frac{1}{2}$ in. i/d	
12	L.001413AND	—	Aluminium alloy	D.T.D.310	22	$\frac{1}{2}$ in. o/d	Vent pipe
13	P.003125AND	—	—	—	—	$\frac{1}{2}$ in. o/d	Drain pipe
14	L.001157ND	—	Aluminium alloy	D.T.D.310	22	—	Vent pipe
15	P.00304ND	—	Aluminium alloy	D.T.D.310	20	$\frac{3}{4}$ in. o/d	Drain pipe
16	P.002605A	—	Aluminium	T.9	17G	$\frac{3}{4}$ in. o/d	Vent pipe
17	P.002716ND	—	Aluminium alloy	D.T.D.310	20	1-0 in. o/d	Tank vent pipe
18	P.002717ND	—	Aluminium alloy	D.T.D.310	20	$\frac{3}{4}$ in. o/d	Fuel vent pipe
19	P.002727ND	P.002728ND	—	—	20	$\frac{1}{2}$ in. o/d	Vent pipe
20	P.002729ND	P.002730ND	Aluminium alloy	D.T.D.310	22	1-0 in. o/d	Fuel pipe
21	P.002727ND	P.002728ND			22	1-0 in. o/d	Fuel pipe
22	P.001131A	P.001132A	Copper	T.7	20	$\frac{1}{2}$ in. o/d	Vent pipe
23	P.002861ND	P.002861ND	Flytex	No. 4	20	1-0 in. o/d	Feed pipe
24	—	—	—	—	—	1-0 in. i/d	Flexible hose
25	—	—	Tecalemit	FD.2151 Mod.6	—	—	Banjo, fuel filter assembly
26	P.002009	—	—	—	—	—	Fuel filter
27	P.002027	P.002027	—	—	—	$1\frac{1}{2}$ in. bore	Fuel pipe
28	P.001806	P.001807	—	—	—	1-0 in. bore	Flexible hose
29	AM.905P	AM.905S	—	—	—	—	Rubber elbow
30	P.001919ND	P.001919ND	Aluminium alloy	D.T.D.310	22	1-0 in. o/d	Wing tank No. 2
31	P.00657ND	P.00657ND	Rubber hose	—	—	2-0 in. i/d	Fuel pipe
32	Al.907.P	AM.907.S	—	—	—	—	Hose connection
33	AM.906.P	AM.906.S	—	—	—	—	Wing tank No. 4
34	P.002709ND	P.002710ND	Aluminium alloy	D.T.D.310	20	$\frac{1}{2}$ in. o/d	Wing tank No. 3
35	P.00133ND	P.00134ND			20	$\frac{1}{2}$ in. o/d	Vent pipe
36	P.002617ND	—			20	$\frac{1}{2}$ in. o/d	Vent pipe
37	P.001184	—			20	$\frac{3}{4}$ in. o/d	Fuel transfer pipe
38	P.002559	—	Aluminium alloy	D.T.D.424/D7 or D.T.D.425 casting	—	—	Banjo
39	P.002618	—	Aluminium alloy	D.T.D.310	20	$\frac{3}{4}$ in. o/d	Fuel transfer pipe
40	P.002665	—	—	—	—	—	Assembly of main fuel tank
41	P.002049A	P.002050A	—	—	—	—	Assembly of drop tank
42	P.003057ND	—	Aluminium	T.9	22	$\frac{1}{2}$ in. o/d	Fuel pipe
43	—	P.003051ND	Aluminium	T.9	22	$\frac{1}{2}$ in. o/d	Fuel pipe

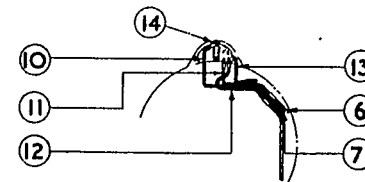
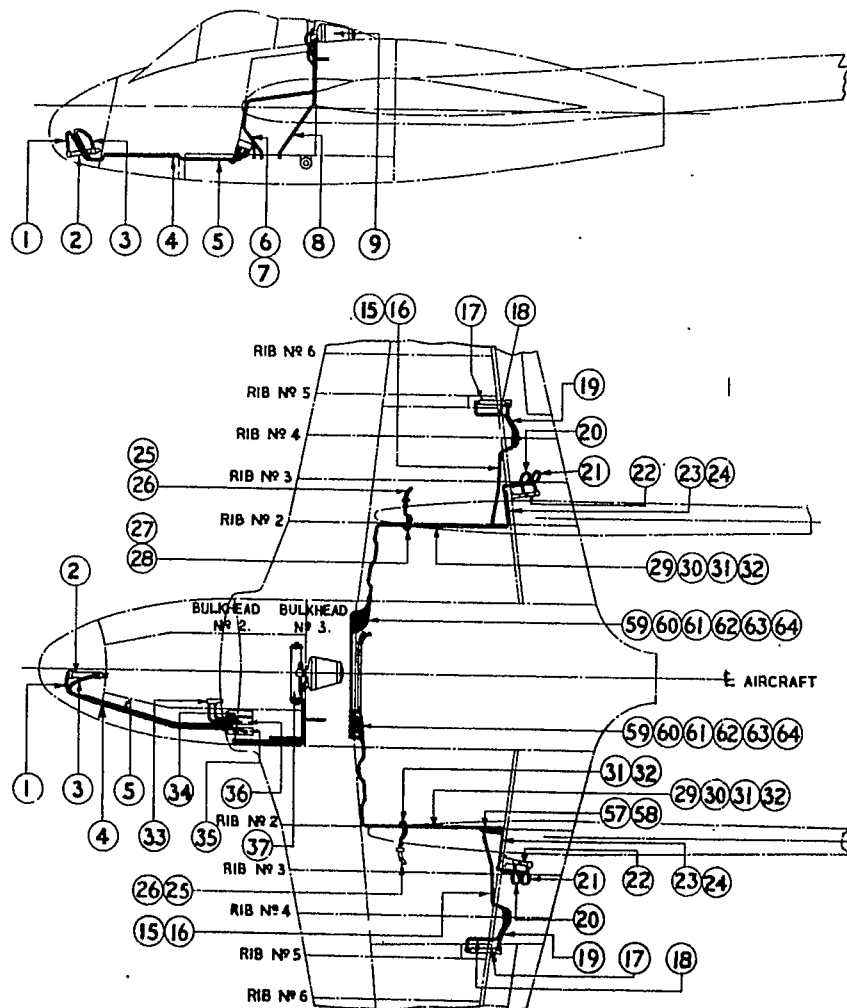


HYDRAULIC SYSTEM Key to Items shown on fig. No. 3/2

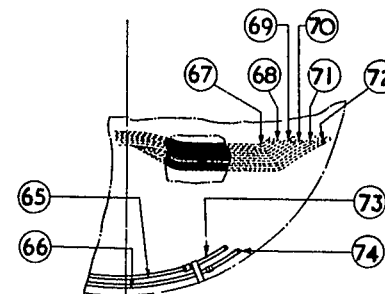
Key No.	Part No.		Material	Specification	S.W.G.	Diameter (in.)	Description
	L.H.	R.H.					
1		AIR.31832	—	—	—	—	Hose, nose wheel "down"
2		AIR.40542	—	—	—	—	Nose wheel jack
3		AIR.34490	—	—	—	—	Hose, nose wheel "up"
4		Q.00441ND	Steel	D.T.D.503	24	$\frac{1}{2}$ o/d	Pipe, nose wheel "up"
5		Q.00443ND	Steel	D.T.D.503	24	$\frac{1}{2}$ o/d	Pipe, nose wheel "down"
6		Q.003761AND	Alum. alloy	L.56	20 or 22	$\frac{1}{2}$ o/d	Pipe, hand pump suction
7		Q.00621AND	Alum. alloy	L.56	20 or 22	$\frac{1}{2}$ o/d	Pipe, main return
8		Q.00619AND	Alum. alloy	L.56	20 or 22	$\frac{1}{2}$ o/d	Pipe, main suction
9		Q.00625AND	—	—	—	—	Hydraulic reservoir
10		Q.003567A	—	—	—	—	Pipe, main return
11		Q.003591AND	Alum. alloy	L.56	20 or 22	$\frac{1}{2}$ o/d	Pipe, hand pump suction
12		Q.003761AND	Alum. alloy	L.56	20 or 22	$\frac{1}{2}$ o/d	Pipe, hand pump suction
13		Q.00623AND	Alum. alloy	L.56	20 or 22	$\frac{1}{2}$ o/d	Pipe, vent
14		Q.00627AND	Alum. alloy	L.56	20 or 22	$\frac{1}{2}$ o/d	Filler neck
		Q.003573	Silicon	L.33	—	—	
15	Q.00339ND	Q.002472ND	Alum. alloy	—	—	—	
16	Q.00337ND	Q.002470ND	Tungum	D.T.D.323	24	$\frac{1}{2}$ o/d	Pipe, dive brake "on"
17	AIR.40022	AIR.40022	Tungum	D.T.D.323	24	$\frac{1}{2}$ o/d	Pipe, dive brake "off"
18	AIR.31832	AIR.31832	—	—	—	—	Dive brake jack
19	AIR.34490	AIR.34490	—	—	—	—	Hose, dive brake "on"
20	AIR.31836	AIR.31836	—	—	—	—	Hose, dive brake "off"
21	AIR.31832	AIR.31832	—	—	—	—	Hose, flap "up"
22	AIR.40008	AIR.40008	—	—	—	—	Hose, flap "down"
23	Q.002436ND	Q.002466ND	Tungum	D.T.D.323	24	$\frac{1}{2}$ o/d	Flap jack
24	Q.002434ND	Q.002468ND	Tungum	D.T.D.323	24	$\frac{1}{2}$ o/d	Pipe, flap "up"
25	AIR.31836	AIR.31836	—	—	—	—	Pipe, flap "down"
26	AIR.34492	AIR.34492	—	—	—	—	Hose, U/C "up"
27	Q.00313ND	Q.002458ND	Tungum	D.T.D.323	24	$\frac{1}{2}$ o/d	Hose, U/C "down"
28	Q.00314ND	Q.002460ND	Tungum	D.T.D.323	24	$\frac{1}{2}$ o/d	Pipe, U/C "up"
29	Q.002428ND	Q.002452ND	Tungum	D.T.D.323	24	$\frac{1}{2}$ o/d	Pipe, U/C "down"
30	Q.002426ND	Q.002450ND	Tungum	D.T.D.323	24	$\frac{1}{2}$ o/d	Pipe, dive brake "on"
31	Q.002442ND	Q.002462ND	Tungum	D.T.D.323	24	$\frac{1}{2}$ o/d	Pipe, dive brake "off"
32	Q.002444ND	Q.002464ND	Tungum	D.T.D.323	24	$\frac{1}{2}$ o/d	Pipe, flap "up"
33	Q.00473A	—	—	—	—	—	Pipe, flap "down"
34	AIR.40272	—	—	—	—	—	Accumulator release valve
35	AIR.40272	—	—	—	—	—	Dive brake selector
36	AIR.40272	—	—	—	—	—	U/C selector
37	AIR.40016	—	—	—	—	—	Flap selector
38	Q.0036ND	—	—	—	—	—	Hydraulic accumulator
39	Q.002213ND	—	Steel	D.T.D.503	24	$\frac{1}{2}$ o/d	Pipe, hand pump pressure
40	Q.002214ND	—	Tungum	—	20	0.060—0.004	Pipe, flaps "up" (special)
41	Q.00482ND	—	—	—	20	0.060—0.004	Pipe, flaps "down" (special)
42	Q.00484ND	—	Steel	D.T.D.503	24	$\frac{1}{2}$ o/d	Pipe, U/C "up"
43	Q.003723AND	—	Steel	D.T.D.503	24	$\frac{1}{2}$ o/d	Pipe, U/C "down"
44	Q.003731AND	—	Steel	D.T.D.503	22	$\frac{1}{2}$ o/d	Pipe, (for'd) dive brake "on"
45	Q.003721AND	—	Steel	D.T.D.503	22	$\frac{1}{2}$ o/d	Pipe, (aft) dive brake "on"
46	Q.003729AND	—	Steel	D.T.D.503	22	$\frac{1}{2}$ o/d	Pipe, (for'd) dive brake "off"
47	Q.00494ND	—	Steel	D.T.D.503	22	$\frac{1}{2}$ o/d	Pipe, (aft) dive brake "off"
48	Q.00496ND	—	Steel	D.T.D.503	22	$\frac{1}{2}$ o/d	Pipe, dive brake pressure
49	Q.00498ND	—	Steel	D.T.D.503	22	$\frac{1}{2}$ o/d	Pipe, dive brake pressure
50	Q.003725AND	—	Steel	D.T.D.503	22	$\frac{1}{2}$ o/d	Pipe, dive brake return
51	Q.00502ND	—	Steel	D.T.D.503	22	$\frac{1}{2}$ o/d	Pipe, engine pump pressure
52	Q.00504ND	—	Steel	D.T.D.503	22	$\frac{1}{2}$ o/d	Pipe, accumulator pressure
53	Q.00506ND	—	Steel	D.T.D.503	24	$\frac{1}{2}$ o/d	Pipe, pressure to selectors
54	Q.00508ND	—	Steel	D.T.D.503	24	$\frac{1}{2}$ o/d	Pipe, pressure to selectors
55	Q.00510ND	—	Steel	D.T.D.503	24	$\frac{1}{2}$ o/d	Pipe, return from selectors
56	Q.003727AND	—	Alum. alloy	L.56	24	$\frac{1}{2}$ o/d	Pipe, pressure to selectors
57	Q.002432ND	—	Tungum	D.T.D.323	22	$\frac{1}{2}$ o/d	Pipe, engine pump suction
58	Q.002430ND	—	Tungum	D.T.D.323	24	$\frac{1}{2}$ o/d	Pipe, dive brake "on"
59	Q.00534ND	Q.00536ND	Tungum	D.T.D.323	24	$\frac{1}{2}$ o/d	Pipe, dive brake "off"
60	Q.00528ND	Q.00538ND	Tungum	D.T.D.323	24	$\frac{1}{2}$ o/d	Pipe, dive brake "off"
61	Q.00532ND	Q.00540ND	Tungum	D.T.D.323	24	$\frac{1}{2}$ o/d	Pipe, dive brake "on"
62	Q.00526ND	Q.00542ND	Tungum	D.T.D.323	24	$\frac{1}{2}$ o/d	Pipe, flaps "up"
63	Q.00530ND	Q.00546ND	Tungum	D.T.D.323	24	$\frac{1}{2}$ o/d	Pipe, flaps "down"
64	Q.00524ND	Q.00544ND	Tungum	D.T.D.323	24	$\frac{1}{2}$ o/d	Pipe, U/C "up"
65	Q.003697AND (Mk. 20)	—	Tungum	D.T.D.323	24	$\frac{1}{2}$ o/d	Pipe, U/C "down"
	15.S.1359AND (Mk. 5 and 9)	—	Tungum	D.T.D.323	22	$\frac{1}{2}$ o/d	Pipe, engine pump pressure
66	Q.003701AND (Mk. 20)	—	Steel	D.T.D.503	20	$\frac{1}{2}$ o/d	Pipe, engine pump pressure
	15.S.1357AND (Mk. 5 and 9)	—	Tungum	D.T.D.323	20	$\frac{1}{2}$ o/d	Pipe, engine pump suction
67	Q.00388ND	—	Steel	D.T.D.503	20	$\frac{1}{2}$ o/d	Pipe, engine pump suction
68	Q.00389ND	—	Steel	D.T.D.503	24	$\frac{1}{2}$ o/d	Pipe, dive brakes "off"
69	Q.00390ND	—	Steel	D.T.D.503	24	$\frac{1}{2}$ o/d	Pipe, dive brakes "on"
70	Q.00391ND	—	Steel	D.T.D.503	24	$\frac{1}{2}$ o/d	Pipe, flaps "up"
71	Q.00394ND	—	Steel	D.T.D.503	24	$\frac{1}{2}$ o/d	Pipe, flaps "down"
72	Q.00393ND	—	Steel	D.T.D.503	24	$\frac{1}{2}$ o/d	Pipe, U/C "up"
73	Q.003781AND	—	—	—	—	—	Pipe, U/C "down"
74	Q.002233AND	—	—	—	—	—	Flexible hose, pump pressure
							Flexible hose, pump suction

RESTRICTED

(A.L.23, Feb. 57)



VIEW LOOKING AFT ON
BULKHEAD No 3.



ENLARGED VIEW ON FIREPROOF
BULKHEAD LOOKING FORD.

FOR PARTICULARS OF PIPES IN FUSELAGE
WHICH ARE NOT SHOWN ON THIS DRAWING
SEE RELEVANT SCHEDULE, KEY NUMBERS
38-56 INCLUSIVE.

FIG3/2

HYDRAULIC SYSTEM.

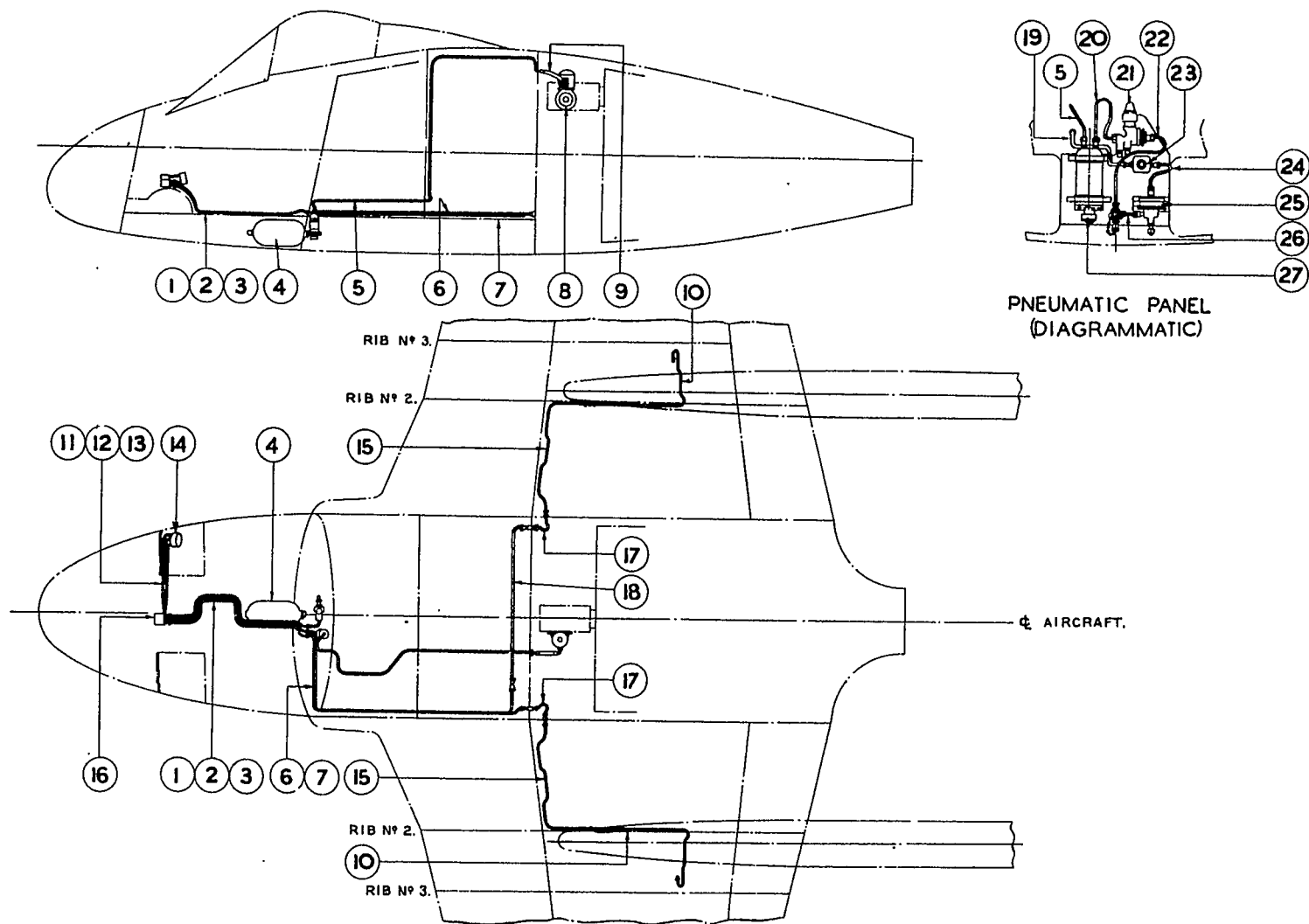
FIG3/2

PNEUMATIC SYSTEM

Key to items shown on fig. No. 3/3

Key No.	Part No.		Material	Specification	S.W.G.	Diameter	Description
	L.H.	R.H.					
1	Q.00585ND		Alum. alloy	D.T.D.310	22	$\frac{1}{4}$ in. o/d	Pipe, brake pressure
2	Q.00587ND		Alum. alloy	D.T.D.310	22	$\frac{1}{4}$ in. o/d	Pipe, starboard brake pressure
3	Q.00589ND		Alum. alloy	D.T.D.310	22	$\frac{1}{4}$ in. o/d	Pipe, port brake pressure
4			Stores Ref. 6G/128				Air reservoir
5	Q.00467		Alum. alloy	D.T.D.310	22	$\frac{1}{4}$ in. o/d	Pipe, brake pressure
6	Q.00512		Alum. alloy	D.T.D.310	22	$\frac{1}{4}$ in. o/d	Pipe, starboard brake pressure
7	Q.00514		Alum. alloy	D.T.D.310	22	$\frac{1}{4}$ in. o/d	Piper pot, brake pressure
8			Stores Ref. 37G/501				Heywood air compressor
9	L.00637A		Silvoflex, Skyflex or Weatherhead flex			$\frac{1}{4}$ in. i/d	Flexible hose
10	Q.002456ND	Q.002438ND	Alum. alloy	D.T.D.310	22	$\frac{1}{4}$ in. o/d	Pipe, brake pressure
11	Q.00586ND		Alum. alloy	D.T.D.310	22	$\frac{1}{4}$ in. o/d	Pipe, brake pressure
12	Q.00588ND		Alum. alloy	D.T.D.310	22	$\frac{1}{4}$ in. o/d	Pipe, starboard brake pressure
13	Q.00590ND		Alum. alloy	D.T.D.310	22	$\frac{1}{4}$ in. o/d	Pipe, port brake pressure
14			Stores Ref. 37G/706				Brake pressure gauge
15	Q.00315ND	Q.00363ND	Alum. alloy	D.T.D.310	22	$\frac{1}{4}$ in. o/d	Pipe, brake pressure
16			Dunlop AHO.8241				Brake control unit
17	Q.00548ND	Q.00550ND	Alum. alloy	D.T.D.310	22	$\frac{1}{4}$ in. o/d	Pipe, brake pressure
18		Q.00392ND	Alum. alloy	D.T.D.310	22	$\frac{1}{4}$ in. o/d	Pipe, starboard brake pressure
19	Q.00700A		Alum. alloy	D.T.D.310	22	$\frac{1}{4}$ in. o/d	Pipe, brake pressure
20	Q.00907ND		Alum. alloy	D.T.D.310	22	$\frac{1}{4}$ in. o/d	Oil and water trap to regulator valve
21			Stores Ref. 37G/706				Regulator valve
22	Q.00903ND		Alum. alloy	D.T.D.310	22	$\frac{1}{4}$ in. o/d	Pipe, regulator valve to reservoir
23			Dunlop AHO.5712				Reducing valve
24	Q.00905ND		Alum. alloy	D.T.D.310	20	$\frac{1}{4}$ in. o/d	Pipe, reducing valve to air filter
25			Dunlop AHO.2337				Air filter
26	Q.00889		Alum. alloy	D.T.D.310	20	$\frac{1}{4}$ in. o/d	Pipe, reservoir to air filter
27			Stores Ref. 37G/653				Oil trap

RESTRICTED



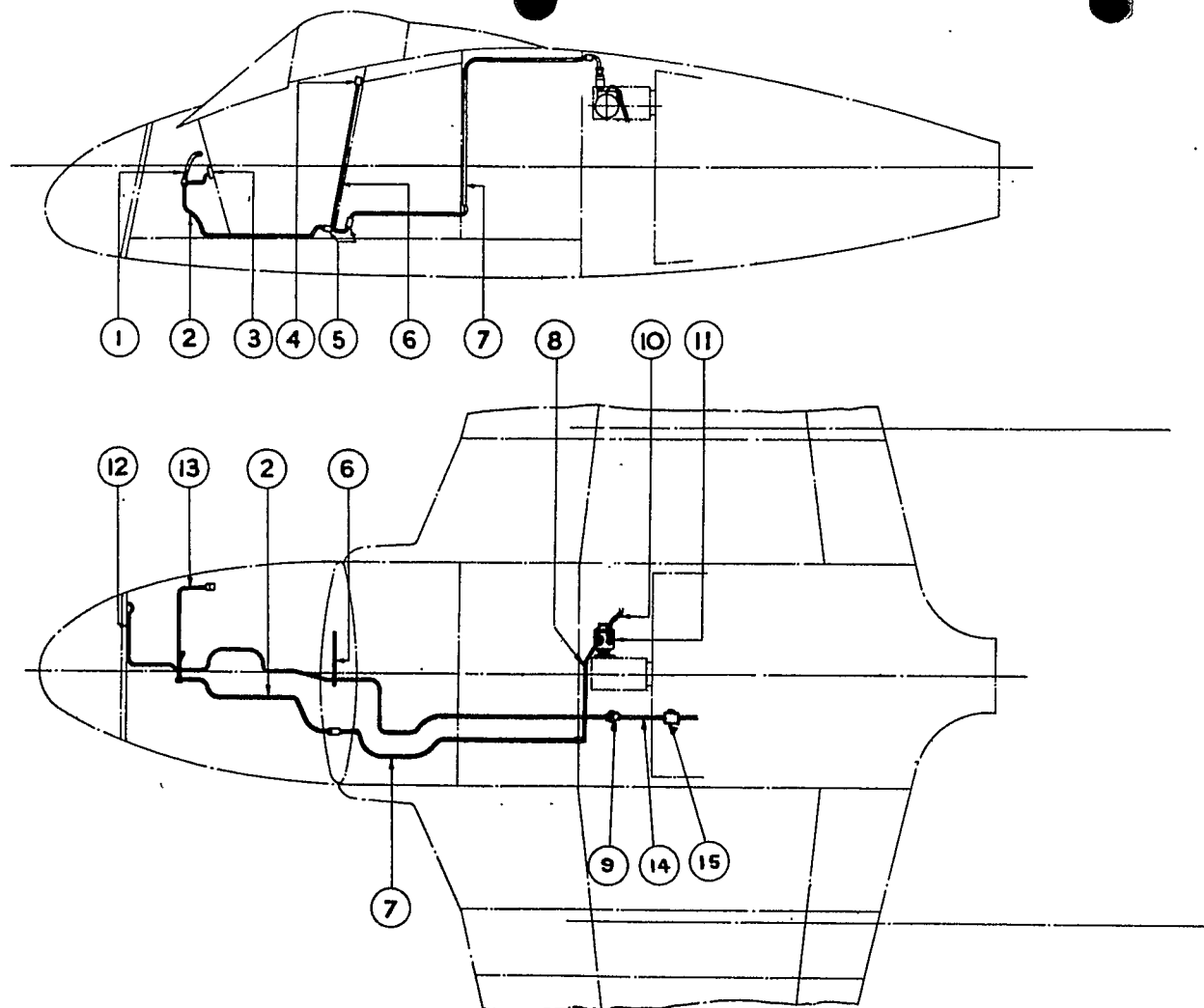


FIG.3/4

VACUUM SYSTEM -

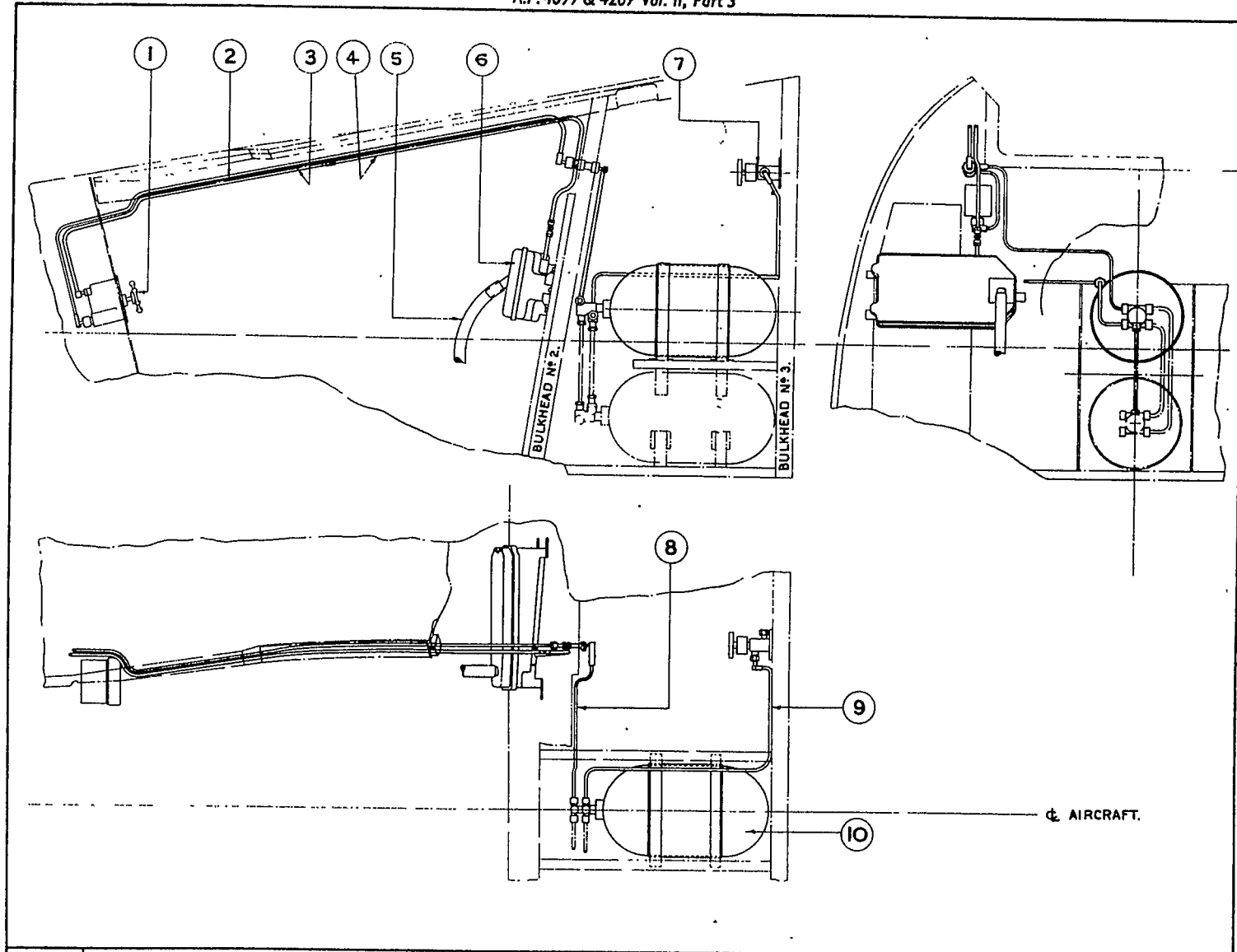
PRESSURE CABIN TYPE.

FIG.3/4

OXYGEN SYSTEM

Key to Items shown on fig. No. 3/5

Key No.	Part No.	Material	S.W.G.	Diameter	Description
1		Stores Ref. 6D/695			Pressure regulator
2	Q.00408ND	Copper	22	$\frac{1}{8}$ in. o/d	Pipe
3	Q.001003ND	Aluminium	22	$\frac{1}{8}$ in. o/d	Pipe
4	Q.001004ND				Pipe
5					Flexible hose
6		Stores Ref. 6D/573			Economiser, Mk. 2
7		Stores Ref. 6D/606			Control valve
8	Q.00765ND	Copper	22	$\frac{1}{8}$ in. o/d	Pipe
9	Q00402ND	Copper	22	$\frac{1}{8}$ in. o/d	Pipe
10		Stores Ref. 6D/483			Cylinder, Mk. 5C



FIRE EXTINGUISHER SYSTEM

Key to items on fig. No. 3/6

Key No.	Part No.	Material	Specification	S.W.G.	Diameter	Description
1	L.001279ND	Alum. alloy	D.T.D.310	20	$\frac{3}{8}$ in. o/d	Pipe, front ring
2	L.001280ND	Alum. alloy	D.T.D.310	20	$\frac{3}{8}$ in. o/d	Pipe, front ring
3	L.00784					"T"-piece
4	L.001123ND	Alum. alloy	D.T.D.310	20	$\frac{3}{8}$ in. o/d	Pipe, rear ring
5	L.001132ND	Avioflex				Flexible hose
6	L.00931	Avioflex				Flexible hose
7	L.00197	Brass	B.S.886	20	$\frac{1}{2}$ in. o/d	Pipe
8	Messrs. Graviner's drawing No. 753					Fire extinguisher bottle
9	L.001121	Alum. alloy	D.T.D.310	20	$\frac{1}{2}$ in. o/d	Pipe
10	L.00923	Alum. alloy	D.T.D.310	20	$\frac{1}{2}$ in. o/d	Pipe, rear ring

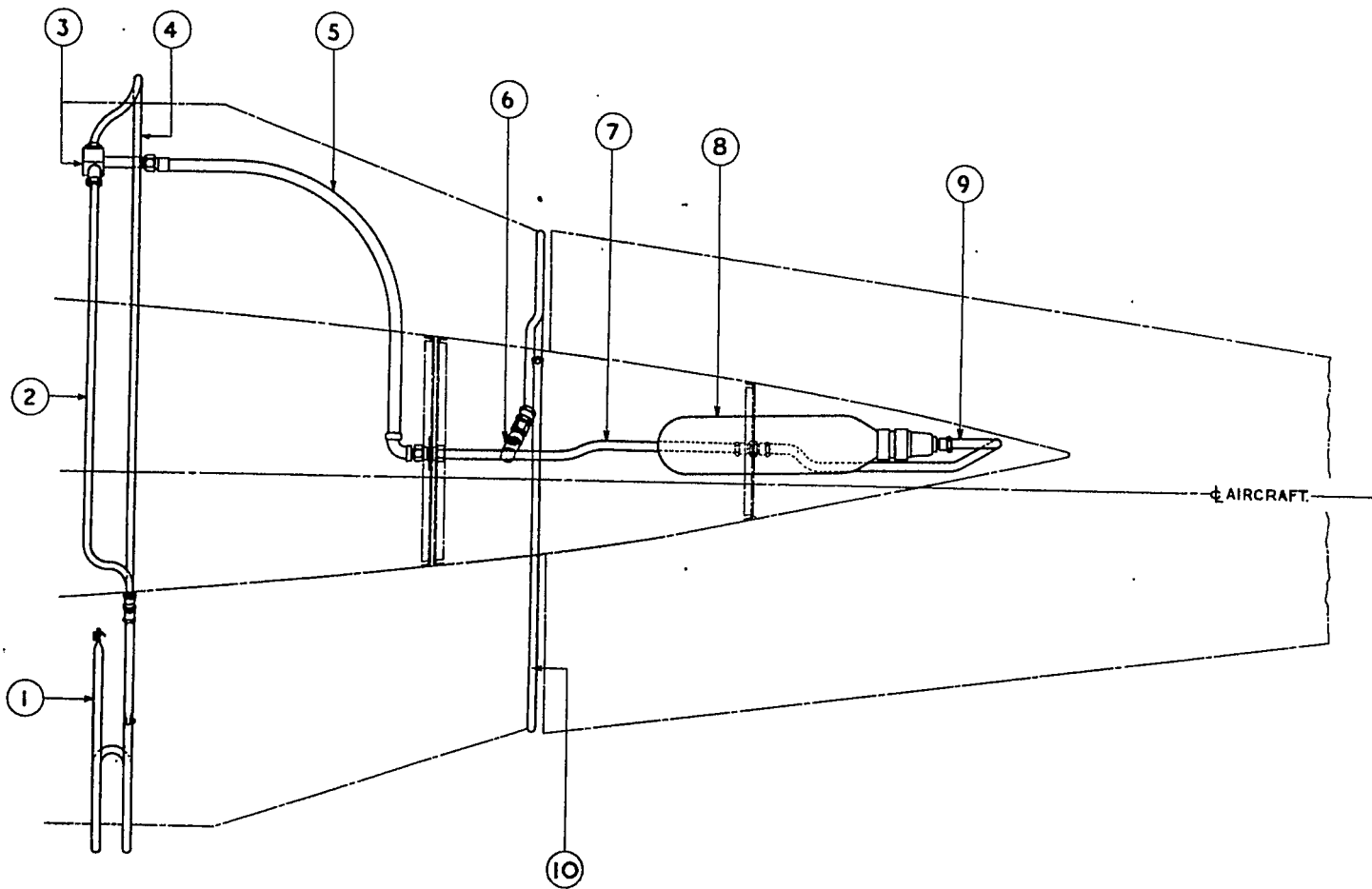


FIG.3/6

FIRE EXTINGUISHER SYSTEM.

FIG.3/6

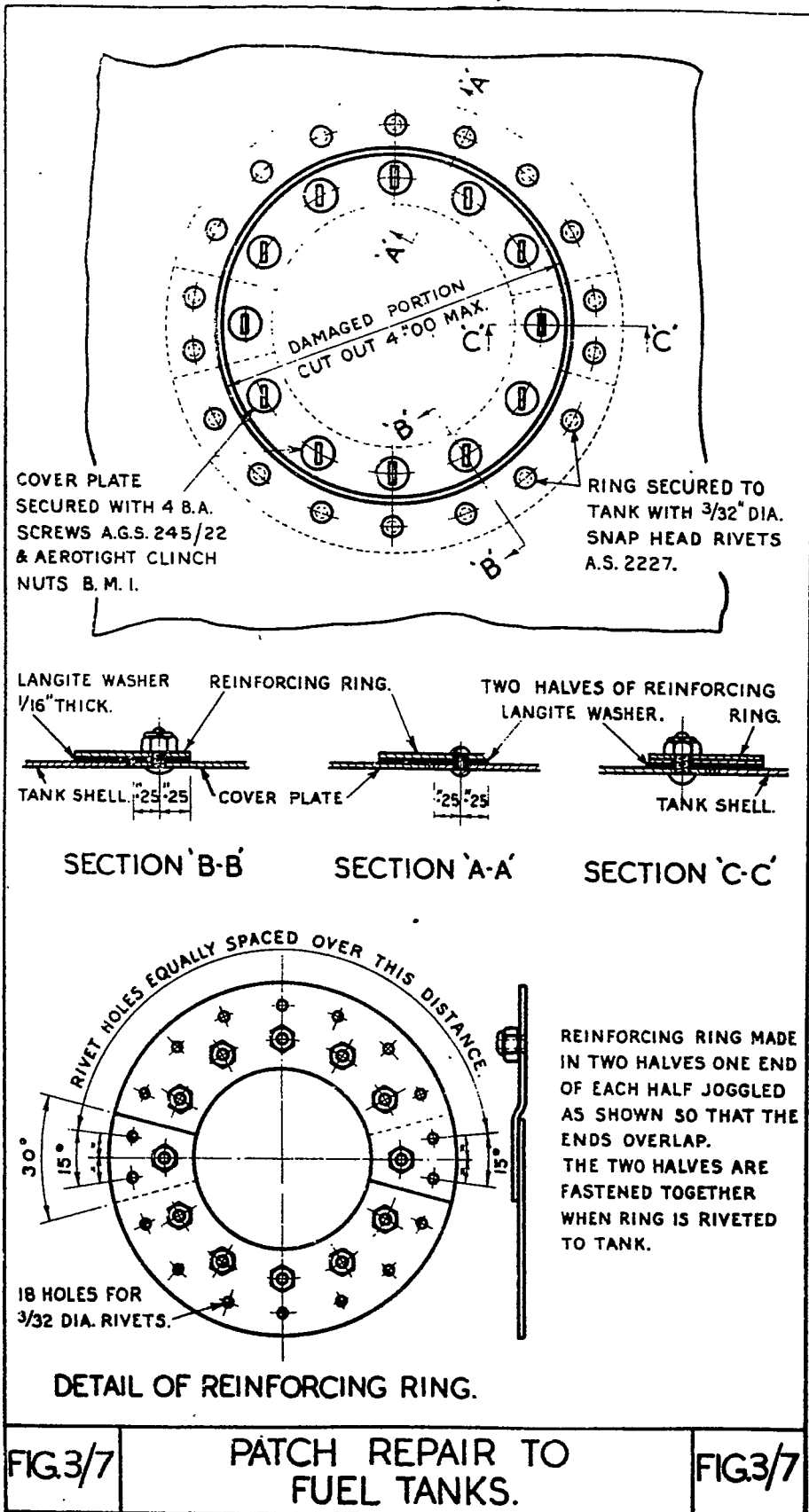
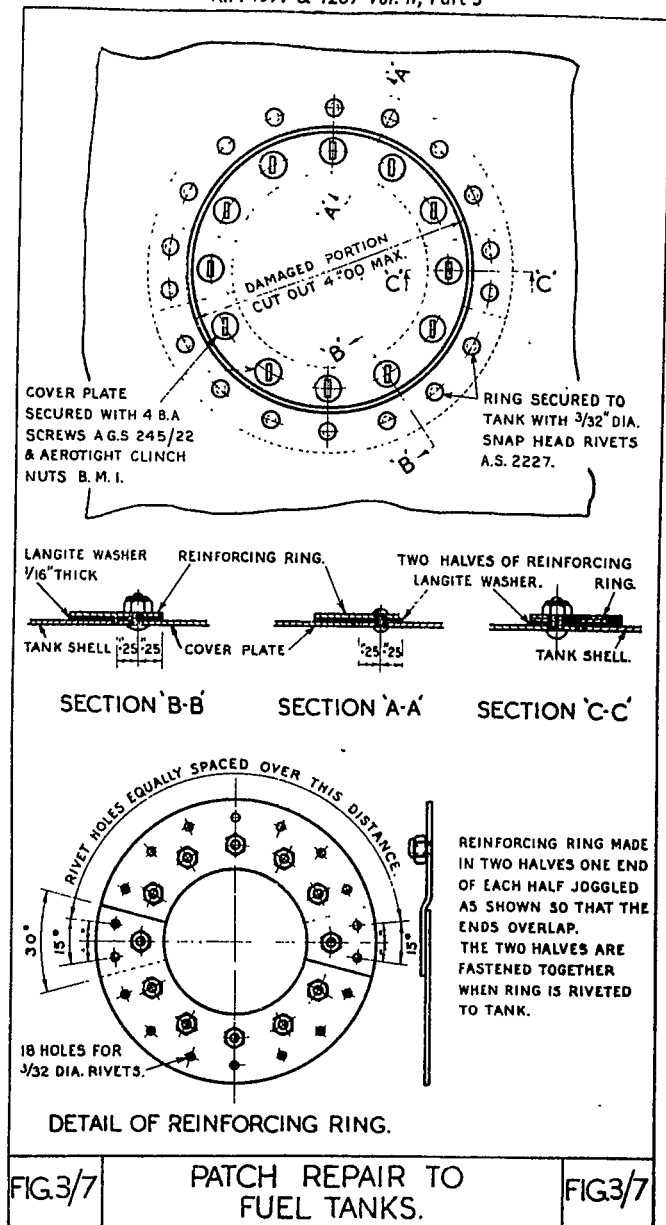


FIG.3/7

PATCH REPAIR TO
 FUEL TANKS.

FIG.3/7



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