- CHAPTER 14 -

EXPORT SHIPMENT - UNCRATING AND ASSEMBLING

14.1 General

Each aircraft is protected against damage and corrosion during transit by thorough inhibiting and crating. Instructions for unpacking and reassembly of the aircraft are given in this chapter of the Manual. Included in the crate are all necessary drawings, and a packing list for checking contents.

In certain cases the inhibiting agents, paints, oils or greases may cause damage to moving parts unless carefully removed, and instructions regarding the cleaning or draining of inhibited parts should be followed scrupulously.

14.2 Dimensions

As an aid in estimating shipping costs, the following approximate crase dimensions and weights are given:

14.2.1 One Aircraft in One Case

Dimensions of Case	English	Metric
aidth.	5% 6*	l,68 m.
Height	7 8 6 11	· 2,29 m.
Length	23 °	7,01 m.
Volume	949 cu.ft.	27 cu.m.
Gross Weight	4150 lb.	1882 kg.

14.2.2 Two Aircraft in Two Cases

14.2.2.1 Case No. 1 - containing 2 fuselages, 2 engines, 2 tailplanes, 2 sets of undercarriage units and miscellaneous small components.

Dimensions of Case	English	Metric
Width	7º 6"	2,29 m.
Height	5' 9"	1,75 m.
Length	23° 1"	7,04 m.
Volume	993 cu.ft.	28,1 cu.m.
Gross Weight, Approximate	4379 lb.	1982 kg.

14.2.2.2 Case No. 2 - containing 4 wing panels, fairings and miscellaneous small components.

Dimensions of Case	English	Metric
Width	5° 5"	l,65 m.
Height	78 61	2,29 m.
Length	16 % 9"	5,11 m.
Volume	682 cu.ft.	. 19,3 cu.m.
Gross Weight, Approximate	2520 lb.	1143 kg.



14.3 Uncrating the Aircraft

Remove the boards from both ends of the crate and from the roof, then take away sides and remove smaller items. Sling or trestle fuselage and remove crate floor. Place fuselage in flying position (Plate No. 10.1).

Remove protective waterproof paper or covering from metal surfaces and inspect parts for signs of corrosion. All sheet metal parts should then be polished and/or waxed according to the methods outlined in Chapter 6. Wipe protective oil or grease film from all bright metal parts and check for corrosion.

14.4 Undercarriage (See also Chapter 8)

Main Wheels 01460&61, Installation Drawing 006

Replace	Washer	AGS 160 H
	Slotted Nut	A16YLS
	Split Pin	AGS 166 12
	Cover Plate	01496

Connect hydraulic brake line. Replace leg fairings 02798&9 and Clips AGS 605 3, when required.

Tail Wheel Assembly, 007 or 0071, Installation Drawings 00411 and 004, Sheets 1 & 2. (To be installed after tailplane and before tailcone). Tailwheel yoke to fin rear spar.

Replace	Bolt	004-2
-	Washer	AGS 160 E
	Nut	A16YGS
	Split Pin	AGS 784 3A

Tailwheel compression leg to tailplane front spar fitting.

Replace	Bolt	6A1 10 G
	Washer	AGS 160 E
	Nut	A16YGS
	Split Pin	AGS 784 3A

Check tire inflation

14.5 <u>Wings</u>, 002 or 00210

Trestle wings in position.

Front spar attachment, replace	Bolt AGS 10 J Washer AGS 160F Slotted Nut A16YJS Split Pin AGS 166 3	
Main spar top attachment, replace	Bolt Washer Slotted Nut	0609 or 05178 AGS 160 H A16YNS

Split Pin

AGS 166 12

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Main spar bottom attachment, r	eplace		0611 or 05179 AGS 160 H)
		Slotted Nut		
		Split Pin	AGS 166 12	
Connect aileron cables at wing	root,			
r	eplace		SP 4 B4	
		Washer Split pin	AGS 160 C	
		Obree Der	AUD 200 C	
Connect flap cable turnbuckles		-		
Connect pitot and static lines Connect electric wiring at win			nin	
Connect hydraulic brake lines	The second se			
and bleed brake system in acco				
Chapter 9. Check brakes.				
Connect fuel line banjo fittin Replace pitot-static mast on p				
Attach bracket assembly to rib		U	160 B	
	E	Bolts GAL	lB	
Check lines for leaks. Check rigging of ailerons, fla	ng und	encorrioce	and wince to	
instructions in Chapter 10 and			and where an	
Wire-lock all fittings where a	pplicat			
Replace Wing root fillets 0112		1		2
	85-1-B 352590			
Close inspection panels, cover			as applicab	le.
The and Dadden A049 & 0047	Tratall	add on Drauda	- No 00413	
Fin and Rudder = 0042 & 0043,		1 & 2 and No	-	and 004,
Attach fin post to fuselage re				
At top of bulkhead, replace	Bolts	C A	L 1C	
At top of but heread, reprace	Washe		5 160 C	
	Nuts			
At better of buildend werland	Delte		. 9.7	
At bottom of bulkhead, replace	Bolts Washe		L 20 5 160 0	
	Nuts	CA		
Attach fin leading edge to fus		6.1	10	
TOMACO	Washe		5 160 C	
	Nuts	CA		
Connect rudder cables to contr.	ol horn			
replace			L 70 and 7E	
	Space		743 and 0257	6
	Nut		SYCS and ES	
	Split	Pin AG	3 166 3	

Tailplane and Elevator, 0041, 0048 and 0049, Installation Drawings No.s 00411, 004, Sheets 1 & 2 and No. 070.

Attach tailplane	front spar to bulkhead	
	Replace Bolt	01618
	Washer	AGS 160 D
	Nut	A16YES
	Split Pin	AGS 784 3A

Attach t	tailplane	struts	to bottom	bulkhead	fitting,		
			Replace	Bolt	016	17	
				Washer	AGS	160	D
				Nut	A16	YES	
				Split Pin	AGS	784	3A

Attach	elevator	connecting rod to layshaft,	
		Replace Bolt	6A1 7 E
		Washer	AGS 160 D
		Nut	A16YES
		Split Pin	AGS 784 3A

Connect elevator trim tab cables to Bowden cables.

Insert Bowden inner cables through fitting on fin spar and slide into slot in muts. Tighten lock muts on Bowden outer cable ends against slotted muts in fin spar fitting. Slide Bowden inner cable ends in slots in fuselage cable end fittings and lock by pulling Bowden cable end fittings through enlarged holes at bottom of slots.

Check rigging of fin, rudder, elevator, elevator trim tab and tailplane to instructions in Chapter 10 and Plate No. 10.1.

Attach wiring for tail navigation light to connector on rear fuselage bulkhead and install tailcone 0046, 03893 or 00412.

Install front fin fairing 01721, front rudder fairing 03762 and 03762-1, centre rudder fairing 03761, end section rudder fairing 03686 and side fin fairings 01722&3.

Screws used are AS1885-1C for tailcone and AS1885-1B for fairings.

14.8 Engine

For instructions regarding removal of inhibiting oils, greases and silica gel bags, etc. and restoration to running order, see Engine Handbook.

14.9 Propeller and Spinner

See Propeller and Spinner Assembly Drawings No.s 0052, 0053 and Chapter 12.7.

14.10 Fuselage

Interior - Clean grease off exposed bright metal parts. Check all controls for ease and correct sense of operation (Chap.10). Check instruments, radio, etc.

14.7

14.10 (cont 'd)

Exterior - Clean and polish.

14.11 Miscellaneous

Batteries - Check acid level and specific gravity, recharge if necessary, remove excess grease from terminals.