

Formerly AP 601A Vol 4 Pt 6.

AP 105D-1314-5F

Issued April 1974

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## BAY SERVICING SCHEDULE

## POWERED FLYING CONTROLS RELEASE UNIT

PART NO. CH 23645  
(FAIREY HYDRAULICS)

BY COMMAND OF THE DEFENCE COUNCIL

Michael Caw

(Ministry of Defence)

DEERA  
FOR USE IN THE  
ROYAL AIR FORCE  
TORNADO DOWN

7/9/79 D

105D-1314-5F

AMENDMENT RECORD CERTIFICATE

1. This certificate is for Ministry of Defence (Air) AL's only.
2. Amendments are to be inserted in numerical sequence except where Non-Availability slips for particular A.L.s are issued.

A.L. No	A.L. MONTH AND YEAR OF ISSUE	AMENDMENT INCORPORATED SIGNATURE	DATE OF INCORPORATION
1			
2			
3			
4			
5			
6			
7			
8			
9			
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12			
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20			

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Sheet 1  
AIRFRAME

RELEASE UNIT  
SUPPLEMENTARY SERVICING

AP105D-1314-5F

ITEM No	ITEM	OPERATION

REF NO.	EQUIPMENT AND TOOLS	QTY.
	Kits Tool Airframe Fitter to Scale A2	
1B/4571	AP830 Vol 3 Pt A	1
1C/7150	Pliers, Circlip.	1
27KF/684	Wrench, Torque 60 - 360 lbf in.	1
27KF/689	Tool, Spring Compressing Pt No. FHQ 153.	1
27KF/690	Blocks, Vice Pt No. FHQ 225.	1
	Ram, Reference.	1

## SPARES

Refer to AP4515P Vol 3 Pt 1 Sect 2 Chap 2.

	MATERIALS	NATO CODE NO.
30A/3055	Wire, Locking, Nickel Chrome, 22SWG.	As required
33D/2201949	Trichloroethane	
34B/2241973	Grease, XG-287	G-354

SERVICING NOTES

1. AP105D-0001-5F is to be complied with throughout the work detailed in this schedule.
2. Clean all components except bearings in trichloroethane, and dry using compressed air.
3. The pawl profile cannot be checked dimensionally except during testing of release unit when the accuracy of the profile will be revealed.

ITEM No	ITEM	OPERATION
1.	<u>Preparation</u>	
1.1	Servicing Notes.	Read.
2.	<u>Dismantling</u>	
2.1	Release unit.	Support in vice using vice blocks.
2.2	Locking bolt.	Remove.
2.3	End bearing.	(i) Press into body using spring compressing tool. (ii) Remove circlip. (iii) Remove.
2.4	Spring.	)
2.5	Piston.	)
2.6	Adapter.	)
2.7	Hinge pin circlip.	) Remove.
2.8	Hinge pin washer.	)
2.9	Hinge pin.	)
2.10	Pawl.	)
2.11	Release unit.	Remove from vice and vice blocks.
3.	<u>Examination</u>	
3.1	Release unit body.	)
3.2	Locking bolt.	)
3.3	End bearing.	)
3.4	Spring.	)
3.5	Piston.	) (i) Clean.
3.6	Adapter.	) (ii) Examine.
3.7	Hinge pin circlip.	)
3.8	Hinge pin washer.	)
3.9	Hinge pin.	)
3.10	Pawl.	)
4.	<u>Assembling</u>	
4.1	Release unit body.	Support in vice using vice blocks.
4.2	Adapter.	Fit.
4.3	Piston.	)
4.4	End bearing.	) Fit temporarily.
4.5	Piston.	Ensure piston rotates and strokes freely.

ITEM No	ITEM	OPERATION
4.	<u>Assembling</u> (Contd)	
4.6	End bearing.	) Remove.
4.7	Piston.	)
4.8	Release unit body.	Pack pawl hinge pin housing with grease, XG-287.
4.9	Pawl.	) (i) Coat with grease, XG-287
4.10	Hinge pin.	) (ii) Fit.
4.11	Hinge pin washers.	)
4.12	Hinge pin circlips.	) Fit.
4.13	Piston.	(i) Coat with grease, XG-287. (ii) Fit, locating pawl hole bevel downwards with head of pawl.
4.14	Spring.	(i) Coat with grease, XG-287. (ii) Fit.
4.15	End bearing.	(i) Coat with grease, XG-287. (ii) Fit using spring compressing tool. (iii) Fit circlip. (iv) Remove spring compressing tool.
4.16	Locking bolt.	(i) Coat with grease, XG-287. (ii) Fit sufficient to retain.
5.	<u>Testing</u>	
5.1	Locking bolt.	Slacken.
5.2	Reference ram.	Fit to release unit.
5.3	Locking bolt.	(i) Tighten ensuring pawl engaged in ram notch. (ii) Torque load to 60 lbf in.
5.4	Release unit.	Check dimensions 'X' and 'Y' are within limits (Fig. 1 refers).
5.5	Locking bolt.	Slacken.
5.6	Reference ram.	Remove.
5.7	Locking bolt.	Tighten sufficient to retain.
6.	<u>Completion</u>	
6.1	Adapter.	Lock with wire.
6.2	Pawl.	Coat exposed portion with grease, XG-287.

ITEM No	ITEM	OPERATION
6.	<u>Completion (Contd)</u>	
6.3	Release unit lower bores.	Coat with grease, XG-287.
6.4	Release unit.	Remove from vice and vice blocks.
6.5	Servicing forms.	Sign.

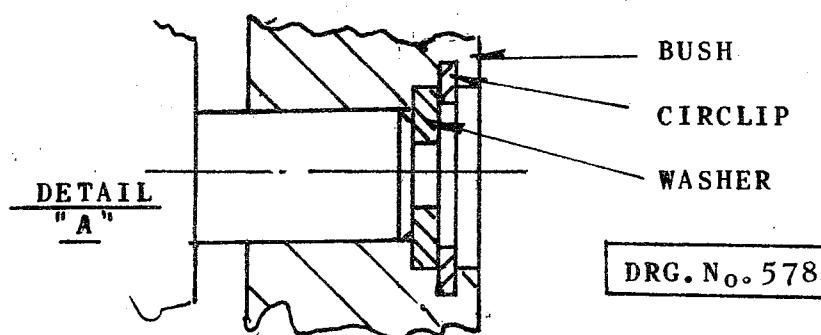
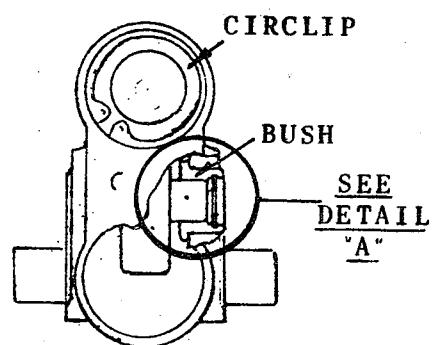
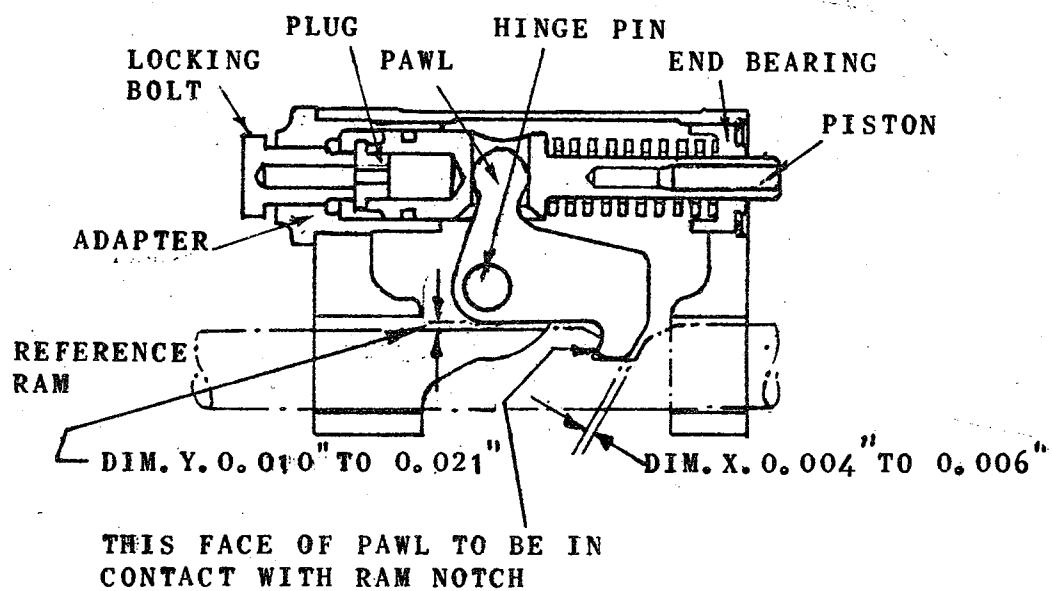


FIG 1



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