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Formerly AP 4601A Vol 4 Pt 6.

2
AP 105D-1314-5F

Issued April 1974

BAY SERVICING SCHEDULE
POWERED FLYING CONTROLS
RELEASE UNIT
PART NO. CH 23645
(FAIREY HYDRAULICS)

BY COMMAND OF THE DEFENCE COUNCIL

Michael Cam

(Ministry of Defence)

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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 |
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Sheet 1
AIRFRAME

RELEASE UNIT
SUPPLEMENTARY SERVICING

AP105D-1314-5F

| ITEM No | ITEM | OPERATION |
|--------------------------|------|-----------|
| | | |
| EO302(2) Issued April 74 | | |

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

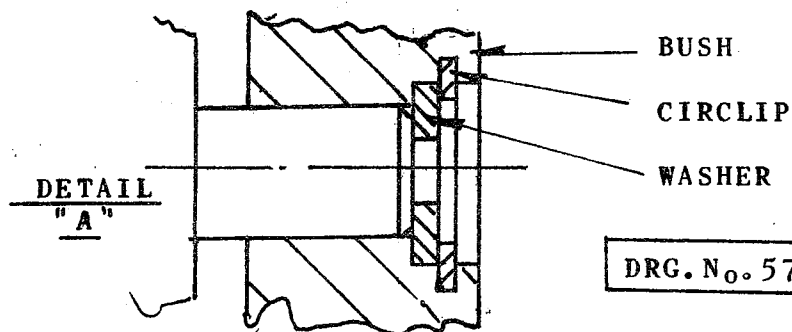
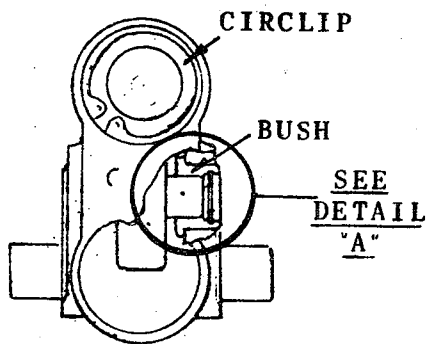
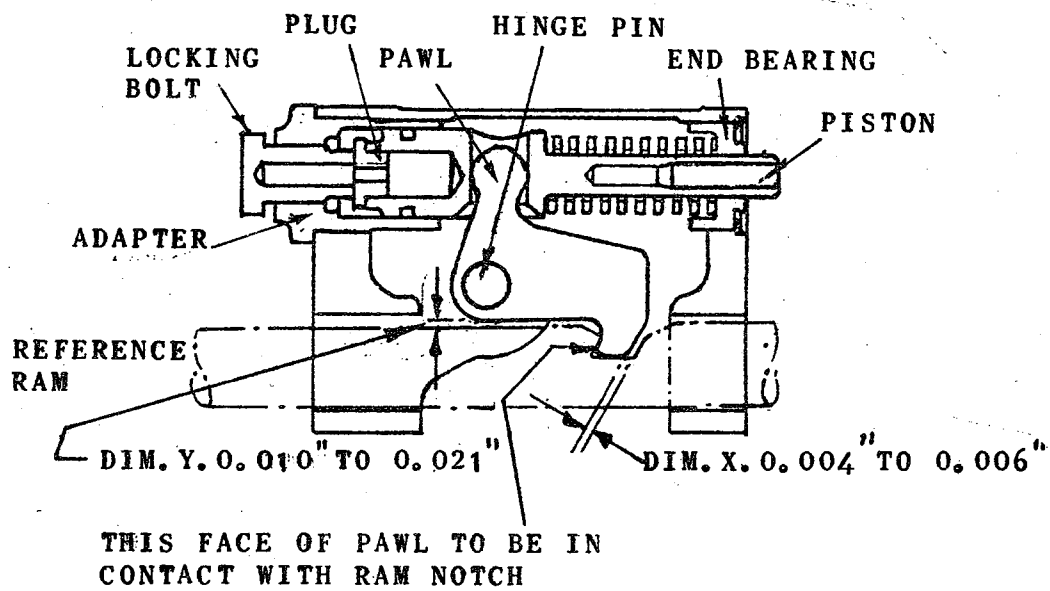
SERVICING NOTES

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) (ii) Fit. |
| 4.10 | Hinge pin. | |
| 4.11 | Hinge pin washers. |) Fit. |
| 4.12 | Hinge pin circlips. | |
| 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. |
| EO302(5A) | | Continued |

| ITEM No | ITEM | OPERATION |
|--------------------------|---------------------------|-----------------------------------|
| 6. | <u>Completion</u> (Contd) | |
| 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. |
| EO302(6) Issued April 74 | | |
| Continued overleaf | | |



DRG. No. 578.

FIG 1

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