

Formerly AP 4601A Vol 4 Pt 6

AP 105D-1304-5F

Issued JUNE 1974

HUNTER

**BAY SERVICING SCHEDULE**

**LOCKED RELEASE UNIT**

**PART NO.CH23521**

**(FAIREY HYDRAULICS)**

BY COMMAND OF THE DEFENCE COUNCIL

Michael Caw

(Ministry of Defence)

|                    |                                   |
|--------------------|-----------------------------------|
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AMENDMENT RECORD CERTIFICATE

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

| A.L.<br>No | A.L. MONTH AND<br>YEAR OF ISSUE | AMENDMENT INCORPORATED<br>SIGNATURE | DATE OF<br>INCORPORATION |
|------------|---------------------------------|-------------------------------------|--------------------------|
| 1          |                                 |                                     |                          |
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E0305(1) Issued June 74

| ITEM No | ITEM | OPERATION |
|---------|------|-----------|
|         |      |           |

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 bearings in this unit are pre-packed. Care is to be taken during cleaning to ensure they are not contaminated with Oil, OM-15.
4. The pawl profile cannot be checked dimensionally except during testing of release unit when the accuracy of the profile will be revealed.

P.F.

| REF NO.  | EQUIPMENT AND TOOLS                        | QTY |
|----------|--|-----|
| 1B/4571  | Kits Tool Airframe Fitter to Scale A2      | 1   |
| 1C/7150  | AP830 Vol 3 Pt A                           | 1   |
| 27KF/684 | Pliers, Circlip.                           | 1   |
| 27KF/685 | Wrench, Torque 60-360 lbf in.              | 1   |
| 27KF/686 | Tool, Spring Compressing Pt No. FHQ 153.   | 1   |
| 27KF/687 | Blocks, Vice Pt No. FHQ 154.               | 1   |
| 27KF/688 | Tool, Hinge Pin Extracting Pt No. FHQ 155. | 1   |
| 27KF/689 | Tool, Hinge Pin Expanding Pt No. FHQ 156.  | 1   |
| 27KF/691 | Ram, Reference Pt No. FHQ 157.             | 1   |

## SPARES

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

| MATERIALS                    | NATO CODE NO.    |
|------------------------------|------------------|
| 33D/2201949 Trichloroethane. | 6810 As required |
| 34B/2241973 Grease, XG-287.  | G-354            |

P.F.

SERVICING NOTES

1. AP105D-0001-5F is to be complied with throughout the work detailed in this schedule.
2. Clean all components except pre-packed bearings in oil, OM-15.
3. All components except bearings are to be immersed in oil, OM-15 immediately before assembling.

P.F.

| 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     | Bearing race circlips. | Remove.   |
| 2.3     | Bearings.              | Remove from body trunnion.  |
| 2.4     | Locking bolt.          | Remove.   |
| 2.5     | End bearing.           | (i) Press into body using spring compressing tool.<br>(ii) Remove circlip.<br>(iii) Remove. |
| 2.6     | Spring.                | )   |
| 2.7     | Piston.                | ) Remove.   |
| 2.8     | Adapter.               | )   |
| 2.9     | Locking washer.        | Remove and discard.   |
| 2.10    | Hinge pins.            | Remove using extracting tool.   |
| 2.11    | Pawl.                  | Remove.   |
| 2.12    | Release unit body.     | Remove from vice and vice blocks.   |
| 3.      | <u>Examination</u>     |   |
| 3.1     | Bearings.              | ) (i) Clean. (Servicing Note 4 refers).   |
| 3.2     | End bearing.           | ) (ii) Examine.   |
| 3.3     | Bearing race circlips. | )   |
| 3.4     | Locking bolt.          | )   |
| 3.5     | End bearing circlip.   | )   |
| 3.6     | Spring.                | ) (i) Clean.  |
| 3.7     | Piston.                | ) (ii) Examine.   |
| 3.8     | Adapter.               | )   |
| 3.9     | Hinge pin.             | )   |
| 3.10    | Pawl.                  | )   |
| 3.11    | Release unit body.     | )   |

| ITEM No | ITEM               | OPERATION  |
|---------|--------------------|--|
| 4.      | <u>Assembling</u>  |  |
| 4.1     | Release unit body. | Support in vice using vice blocks.   |
| 4.2     | Adapter.           | (i) Fit new locking washer.<br>(ii) Fit.   |
| 4.3     | Piston.            | ) Fit.   |
| 4.4     | End bearing.       | )  |
| 4.5     | Piston.            | Ensure strokes and rotates freely.   |
| 4.6     | End bearing.       | )  |
| 4.7     | Piston.            | ) Remove.  |
| 4.8     | Release unit body. | Pack pawl hinge pin housing with grease, XG-287.   |
| 4.9     | Pawl.              | (i) Coat with grease, XG-287.<br>(ii) Fit.   |
| 4.10    | Hinge pin.         | (i) Coat with grease, XG-287.<br>(ii) Fit. Do not expand.  |
| 4.11    | Piston.            | (i) Coat with grease, XG-287.<br>(ii) Fit, locating pawl hole bevel downwards with head of pawl.                                       |
| 4.12    | Spring.            | (i) Coat with grease, XG-287.<br>(ii) Fit.   |
| 4.13    | End bearing.       | (i) Coat with grease, XG-287.<br>(ii) Fit using spring compressing tool.<br>(iii) Fit circlip.<br>(iv) Remove spring compressing tool. |
| 4.14    | Locking bolt.      | (i) Coat with grease, XG-287.<br>(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.<br>(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     | Release ram.       | Remove.  |
| 5.7     | Locking bolt.      | Tighten sufficient to retain.  |

| ITEM No | ITEM                      | OPERATION   |
|---------|---------------------------|---|
| 6.      | <u>Completion</u>         |   |
| 6.1     | Adapter.                  | Lock by peening locking washer into slots in adapter and release unit body.                           |
| 6.2     | Hinge pin.                | Expand ends to minimum diameter of 0.42in. using expanding tool and finish ends flush with unit body. |
| 6.3     | Bearings.                 | ) Fit.  |
| 6.4     | Bearing race circlips.)   |   |
| 6.5     | Pawl.                     | Coat exposed portion with grease, XG-287.   |
| 6.6     | Release unit lower bores. | Coat with grease, XG-287.   |
| 6.7     | Release unit.             | Remove from vice and vice blocks.   |
| 6.8     | Servicing forms.          | Sign.   |

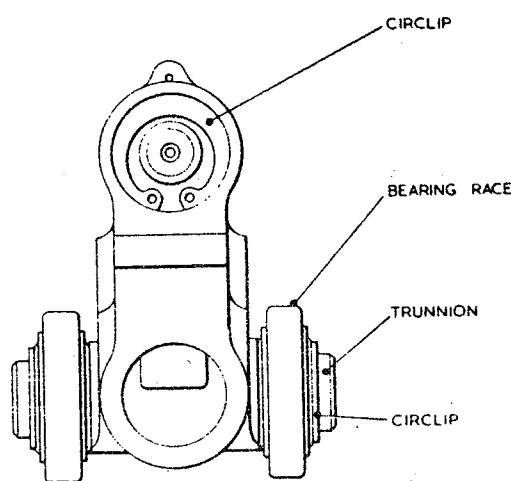
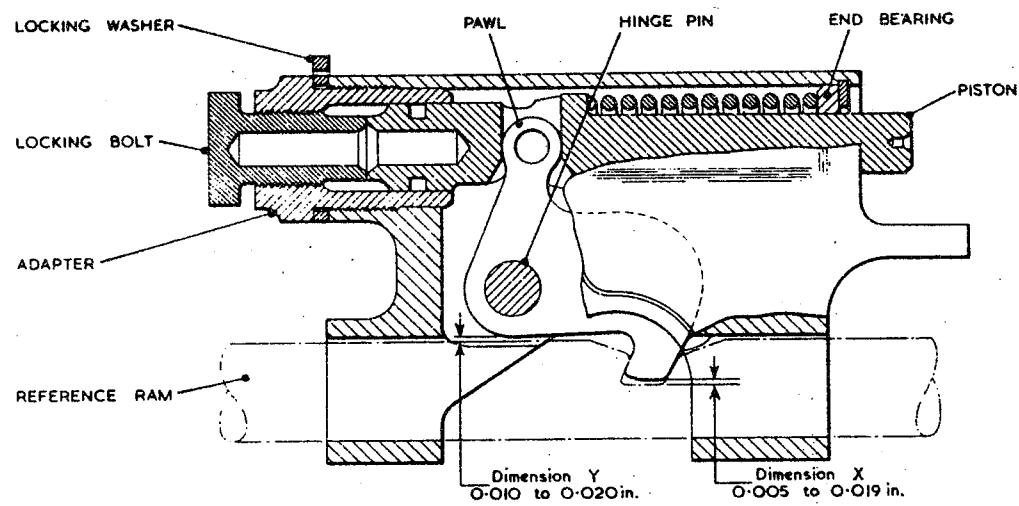
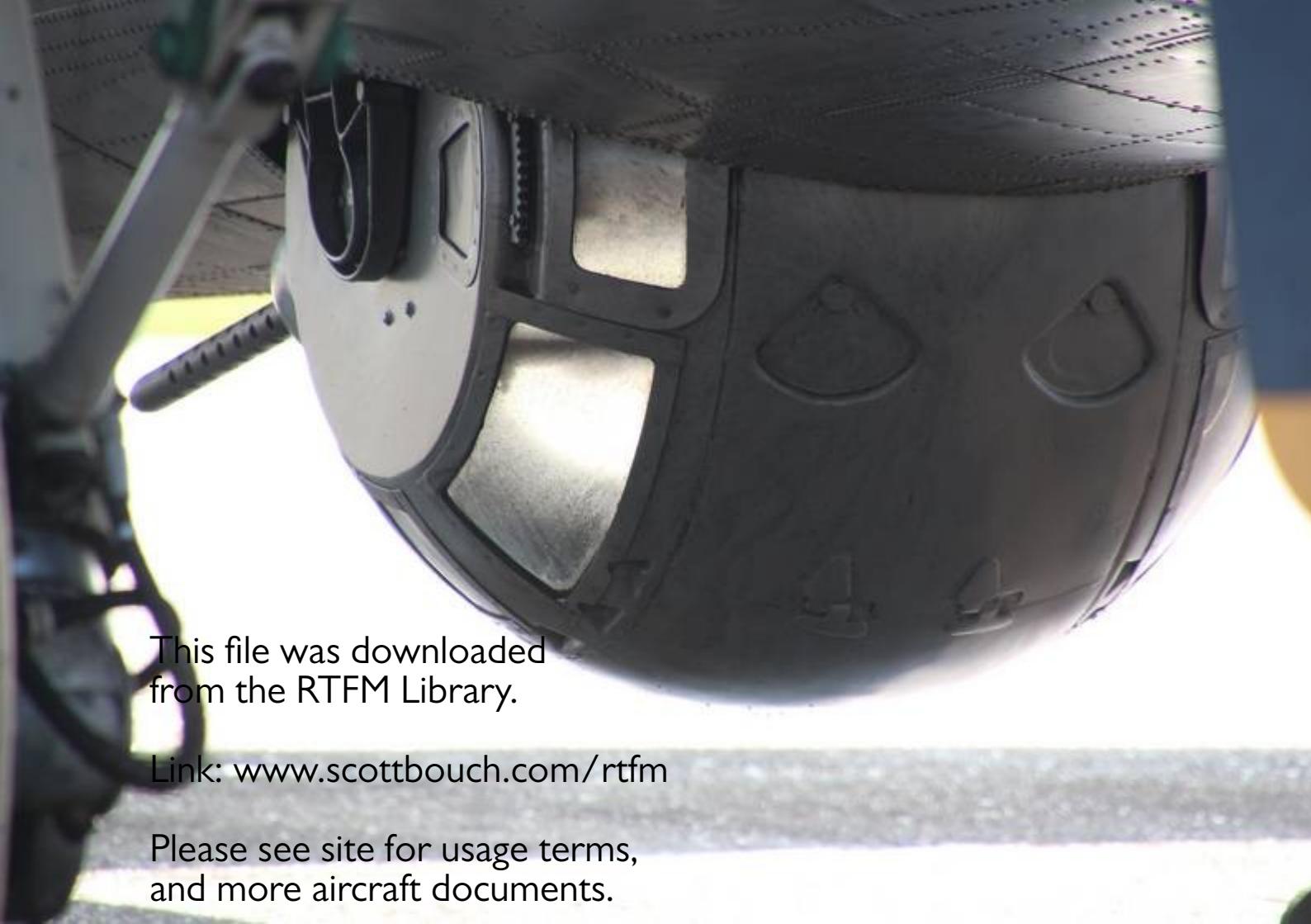


FIG 1



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