

AIR PUBLICATION

1803U

VOLUME I

BOOK 5

**AIRCRAFT HYDRAULIC EQUIPMENT
DOWTY ROTOL**

JACKS AND MISCELLANEOUS COMPONENTS

BY COMMAND OF THE DEFENCE COUNCIL

L. J. Dunnett

Ministry of Defence

FOR USE IN THE
ROYAL NAVY ROYAL AIR FORCE

(Prepared by the Ministry of Technology)

A.L.75, Jan.69

THE PATENT 'LOXON' LOOSE-LEAF BINDER

Patent No. 700547
Prov. Patent No. 22808/55

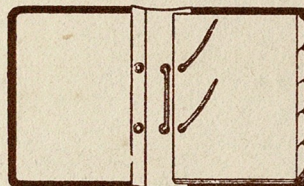


LIST OF STANDARD SIZES

Ref. No.	Size of leaf
51	8 x 6½
52	9 x 7
53	10 x 8
55	13 x 8

Reference and
Quality

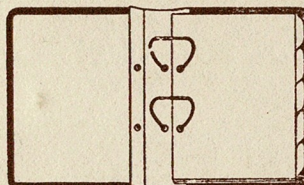
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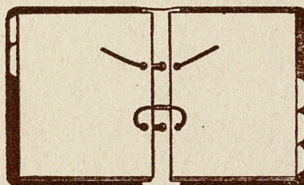
HOW TO USE

To add leaves to the front, merely disconnect the tags and withdraw laces from the flange.

To insert or withdraw leaves at any point without the leaves being freed from the control of the laces at any time:—



Unhitch the laces from the spiral springs, unthread the laces from the flange and join together the two ends of each lace thus forming two separate loops.



Draw the tags through to the required place, disconnect, insert or remove sheets.

Always have the laces free from the springs when the book is in use.

HUNT & BROADHURST LTD., OXFORD

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AMENDMENT RECORD SHEET

To record the incorporation of an Amendment List in this publication, sign against the appropriate A.L. No. and insert the date of incorporation

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INTRODUCTION

1. This Air Publication is one of a series covering hydraulic equipment of British design and covers the range of components designed and produced by Dowty Rotol Ltd. Previously the firm was known as Dowty Equipment Ltd., and the hydraulic components and undercarriages designed and produced by them were included in 1803D and E respectively. Similar components and undercarriages designed by British Messier Ltd. were covered in A.P.1803T. Now with the change of name and consequent absorption of British Messier Ltd. by Dowty all

future hydraulic components designed by Dowty Rotol Ltd. will be included in this publication and the undercarriages will be dealt with in A.P.1803V. A.P.1803U is divided into Books for convenience of reference and handling.

2. A.P.1803D, A.P.1803E and A.P.1803T will be kept up-to-date by suitable amendment action but new items will only be added if they are allied to aircraft with which existing components in these books are concerned.

3. Hydraulic systems are not described herein but reference should be made to the Air Publication relating to the particular aircraft for such information.

4. Special tools are listed in the chapters when such tools are recommended for use, but it is stressed that the only authority for demanding them is the Scale of Special Airframe or Hydraulic Tools issued by the Air Ministry for each type of aircraft.

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INTRODUCTION

The purpose of this report is to provide a comprehensive overview of the current state of the industry and to identify key trends and challenges. The report is organized into several sections, each focusing on a specific aspect of the industry.

The first section discusses the overall market environment, including factors such as economic growth, technological advancements, and regulatory changes. The second section provides a detailed analysis of the competitive landscape, highlighting the strengths and weaknesses of major players.

The third section examines the impact of emerging technologies on the industry, while the fourth section explores the role of government and industry associations in shaping the regulatory framework. The final section offers conclusions and recommendations for stakeholders.

This report is intended to serve as a valuable resource for industry professionals, investors, and policymakers. It is based on extensive research and analysis of publicly available data and industry insights.

The report is organized into several sections, each focusing on a specific aspect of the industry. The first section discusses the overall market environment, including factors such as economic growth, technological advancements, and regulatory changes. The second section provides a detailed analysis of the competitive landscape, highlighting the strengths and weaknesses of major players.

NOTE TO READERS

The subject matter of this publication may be affected by Admiralty Fleet Orders or Air Ministry Orders, or by "General Orders and Modifications" leaflets in this A.P., in the associated publications listed below, or even in some others. If possible, Amendment Lists are issued to correct this publication accordingly, but it is not always practicable to do so. When an Order, or leaflet contradicts any portion of this publication, the Order, or leaflet is to be taken as the overriding authority.

The inclusion of references to items of equipment does not constitute authority for demanding the items.

Each leaf, except the original issue of preliminaries, bears the date of issue and the number of the Amendment List with which it was issued. When this Volume is amended by the insertion of new or replacement leaves in an existing chapter, the new or amended technical information will be indicated by triangles positioned in the text thus:- ◀-----▶ to show the extent of amended text, and thus:- ▶▶ to show where text has been deleted. When a Part, Section, or Chapter is issued in a completely revised form, the triangles will not appear.

◀ This publication is now unclassified; new or revised leaves will not carry a security marking. A.L.75 called for all security markings to be deleted from pages already issued. Holders should take this action as soon as reasonably possible, and in any event before this publication or any part of it is disposed of as waste. ▶

LIST OF ASSOCIATED PUBLICATIONS

<i>Aircraft handbooks</i>		(for relevant aircraft)
		A.P.
<i>Aircraft wheels, tyres and brakes</i>		2337
<i>Electrical manual</i>		4343 series
<i>Hydraulic servicing trolley</i>		2306B
<i>R.A.F. Engineering</i>		1464 series

Also the relevant aircraft Air Publication—see A.P.113

LAYOUT OF A.P.1803U
AIRCRAFT HYDRAULIC EQUIPMENT

DOWTY ROTOL

*Heavy type indicates the books being issued under this A.P. number:
when issued they will be listed in A.P.113*

- VOLUME 1** **BOOK 1, Section 1 to 6**
 BOOK 2, Section 7
 BOOK 3, Section 8
 BOOK 4, Sections 9 and 10
 BOOK 5, Sections 11 and 12
- VOLUME 2** General Orders and Modifications
 (Not published—information included in A.P.1803, Vol. 2, Part 1)
- VOLUME 3** Equipment schedules and spares
 (At present published as A.P.4515B and A.P.4515N)
- VOLUME 4** Planned servicing schedules
 (Not applicable)
- VOLUME 5** Basic servicing schedules
 (Not applicable)
- VOLUME 6** **Schedules of fits, clearances and repair tolerances. Repair and reconditioning instructions**

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- 3 *Hand pumps*
- 4 *Reservoirs*
- 5 *Accumulators, air cylinders and separators*
- 6 *Filters*

BOOK 2

(Manually-operated valves)

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BOOK 4

(Automatic and mechanically-operated valves)

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3. Methodology

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2. Object of the study

BOOK 3

1. General information about the project

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BOOK 4

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2. Object of the study

3. Methodology

BOOK 5

1. General information about the project

2. Object of the study

3. Methodology

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