

*The Journal of*

**THE HELICOPTER  
ASSOCIATION OF  
GREAT BRITAIN**

**CONTENTS include**

**Helicopter Maintenance by J H Willans**

**Problems of Noise in Helicopter Design by  
Professor E J Richards M A B Sc  
F R Ae S**

**The Tenth Annual General Meeting of The  
Helicopter Association of Great Britain**

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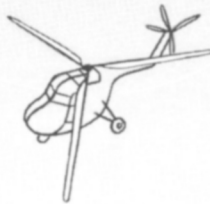
**Vol 9 No 1 JULY, 1955**



# Helicopter

MAIN & TAIL

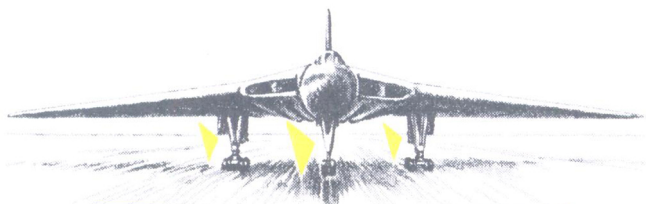
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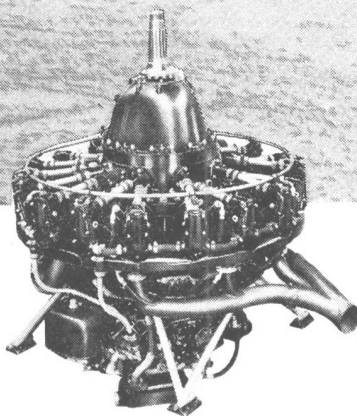
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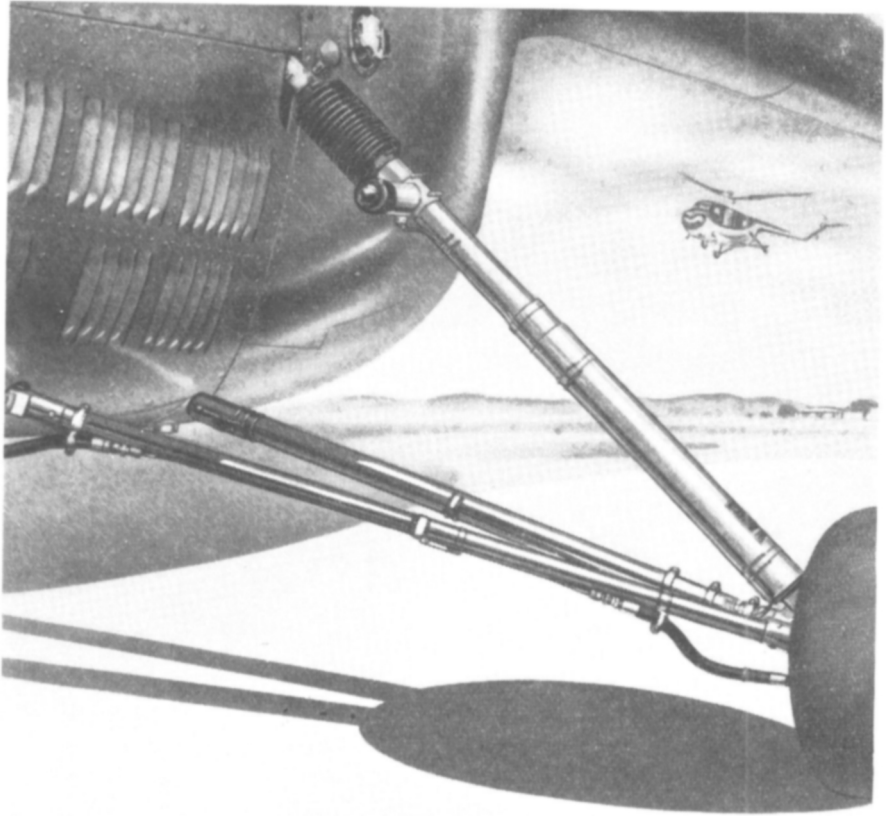
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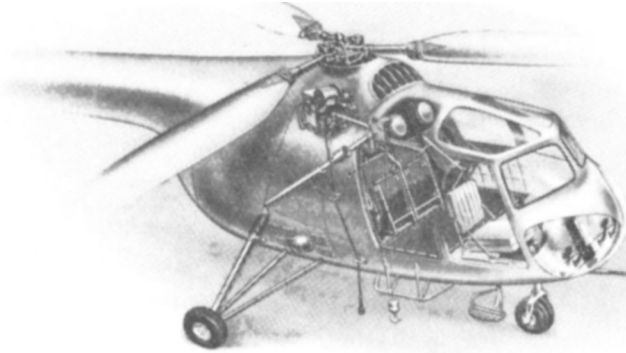




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*on the Sycamore*

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# S Y C A M O R E

**T**HE Bristol Sycamore Mark 4 helicopter is here shown equipped for search and rescue duties, for which it has been adopted by the Royal Air Force. The hydraulic winch, which is served by a hydraulic pump attached to the drive on the main gearbox, is installed on the side of the fuselage above and immediately aft of the starboard entry, so that the cable hangs directly in front of the opening. The intercommunication cable which links the crewman with his pilot during a rescue operation is secured immediately beside the opening, below which is a guard rail which provides a convenient handgrip when a casualty is brought aboard. The canvas screen which covers the aperture during flights to and from the scene of rescue is rolled up above the opening, leaving a completely unobstructed entry. The door sill is flush with the floor, which is level throughout and wholly covered by a rubber drip-tray. The three canvas folding seats at the rear of the cabin are shown ready for use, and first-aid equipment is secured to the bulkhead immediately above the seats.

*\* The Sycamore is powered by the Alvis Leonides*

THE *Bristol* AEROPLANE COMPANY LIMITED ENGLAND  
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## OBJECTS OF THE ASSOCIATION

The objects of the Association are to collect compile and disseminate information of a technical and semi technical nature pertaining to Helicopters and all other types of Rotating Wing Aircraft. The Association aims to work in close co operation with existing Aeronautical Bodies on matters affecting its objects and it may act as an Advisory Body in the promotion of legislation calculated to be of benefit to the development of Rotating Wing Aircraft



BUCKINGHAM PALACE

I send my best wishes to the Helicopter Association of Great Britain on the occasion of its Tenth Annual General Meeting

I have good cause to know the value of helicopters I have also seen them in use by the Army and the Royal Navy and for rescue purposes by the Royal Air Force

The helicopter as it stands today is a very considerable achievement, but it is still at the beginning of its career Anything you can do to speed its development will be a great benefit to Great Britain

Here is a field of engineering wide open for pioneers, the difficulties may be great, but the rewards will be much greater still

The Helicopter Association has the backing of everyone who is interested in this form of transport I hope it will not be long before helicopters designed and built in Great Britain are in use in large numbers all over the world

PHILIP

20th May, 1955