



Civil Aviation Authority  
**MANDATORY PERMIT  
DIRECTIVE**



**Number: 2020-004**

[Correction:19 October 2020]

Issue date: 28 September 2020

In accordance with 41(1) of Air Navigation Order 2016 as amended the following action required by this Mandatory Permit Directive (MPD) is mandatory for applicable aircraft registered in the United Kingdom operating on a UK CAA Permit to Fly.

Type Approval Holder's Name: <b>Vickers Supermarine</b>	Type/Model Designation(s): <b>Vickers Supermarine Spitfire and Seafire aeroplanes</b>
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<b>Supersedure:</b>	This MPD supersedes MPD 1995-089 R1 dated 18 January 2001
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<b>Title:</b>	Cracking of Main Landing Gear Chassis Pintles
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<b>Manufacturer:</b>	Vickers Supermarine / Westland Aircraft Ltd
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<b>Applicability:</b>	Vickers Supermarine / Westland Aircraft Spitfire and Seafire aeroplanes (All marks and serial numbers)
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<b>Reason:</b>	<p>This correction is issued to correct the reference number in the Accomplishment Instructions for the Pintle Mount Stud Inspection MPD.</p> <p>As a result of landing gear failure on an RAF Spitfire aircraft, the CAA sent a telegram/telex on 13 July 1976 to all civil registered Spitfire owners, requiring examination of the chassis pintles. Subsequent to those inspections, a set of four spares were crack tested, with two being found cracked in proximity to the radius.</p> <p>The affected parts are the Main Landing Gear Chassis Pintles (port and starboard).</p> <p>MPD 1995-089 R1, which is now superseded, was issued in 1995 requiring a non-destructive inspection of the chassis pintles prior to installation.</p> <p>There is still a possibility for the resultant unsafe condition to occur due to potential long-term storage of spares that could be affected. This MPD, which supersedes MPD 1995-089 R1, has been raised to update out-of-date references to inspection techniques listed in R1 to MPD 1995-089 and add in a recurrent inspection requirement.</p>
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<b>Effective Date:</b>	<b>12 October 2020</b>
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<p><b>Compliance/Action:</b></p>	<p><b><u>Affected Part(s):</u></b> Original Equipment Manufacturer (OEM) or newly manufactured Main Landing Gear Chassis Pintles (port and starboard)</p> <p><b><u>Serviceable Part(s):</u></b> OEM or newly manufactured Main Landing Gear Chassis Pintles (port and starboard), having satisfactorily passed a Non-Destructive Test (NDT) Examination in accordance with an approved technique (See Remark 2).</p> <p><b><u>Accomplishment Instructions:</u></b></p> <p><b>From the effective date of this MPD, prior to installation or replacement of any affected part and thereafter coincident with the Pintle Mount Stud Inspection required by MPD 2020-006:</b></p> <p>(1) Carry out an NDT Examination on the affected part in accordance with an approved technique (See Remark 2).</p> <p><b>Complete the following actions if any affected part is found cracked during the actions of paragraph (1):</b></p> <p>(2) Complete a Mandatory Occurrence Report; and</p> <p>(3) Quarantine the affected part for investigation and replace with a serviceable part.</p> <p><b>From the effective date of this MPD, do not install an affected part on any aeroplane unless paragraph (1) has been complied with satisfactorily.</b></p>
<p><b>ENSURE COMPLIANCE WITH THIS MPD IS RECORDED IN THE AIRCRAFT/ENGINE LOGBOOK</b></p>	
<p><b>Reference Publications:</b></p>	<p>CAP562: Civil Aircraft Airworthiness Information and Procedures (CAAIPs), <i>Chapter F: 'Non-Destructive Examinations'</i></p> <p>CAP747: Mandatory Requirements for Airworthiness, GR No. 23 <i>'Personnel Certification for Non-Destructive Testing of Aircraft, Engines, Components and Materials'</i></p>

<b>Remarks:</b>	<ol style="list-style-type: none"><li>1. This MPD was originally published as Proposed MPD 20-02 and closed for consultation on 17 September 2020.</li><li>2. An NDT technique is considered approved when drafted and approved by a level 3 certified NDT specialist with the authorisation and scope to cover the selected method(s) in accordance with CAA CAP747 Generic Requirement No. 23.</li><li>3. If requested and appropriately substantiated, CAA can approve Alternative Methods of Compliance for this MPD.</li><li>4. Enquiries regarding this Mandatory Permit Directive should be referred to: GA Unit, Safety and Airspace Regulation Group, Civil Aviation Authority, Aviation House, Beehive Ring Road, Crawley, West Sussex RH6 0YR.</li></ol> <p><b>Tel: +44 (0) 330 138 3495 E-mail: <a href="mailto:ga@caa.co.uk">ga@caa.co.uk</a></b></p>
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