


<b>EASA</b>	<b>NOTIFICATION OF A PROPOSAL TO ISSUE AN AIRWORTHINESS DIRECTIVE</b>
	<p><b>PAD No.: 12-156</b></p> <p><b>Date: 04 December 2012</b></p> <p>Note: This Proposed Airworthiness Directive (PAD) is issued by EASA, acting in accordance with Regulation (EC) No 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.</p>
<p>In accordance with the EASA Continuing Airworthiness Procedures, the Executive Director is proposing the issuance of an EASA Airworthiness Directive (AD), applicable to the aeronautical product(s) identified below.</p> <p>All interested persons may send their comments, referencing the PAD Number above, to the e-mail address specified in the 'Remarks' section, prior to the consultation closing date indicated.</p>	
<p><b>Design Approval Holder's Name:</b></p> <p>SCHEMPP-HIRTH FLUGZEUGBAU GmbH</p>	<p><b>Type/Model designation(s):</b></p> <p>Nimbus-4DT, Duo Discus T and Arcus T powered sailplanes</p>
TCDS Number:	EASA.A.063, EASA.A.074, EASA.A.532
Foreign AD:	Not applicable
Supersedure:	None
<p><b>ATA</b></p> <p><b>ATA 11</b></p> <p><b>ATA 27</b></p>	<p><b>Sailplane Flight Manual / Maintenance Manual – Amendment</b></p> <p><b>Placards and Markings – Replacement</b></p> <p><b>Flight Controls – Rudder, Elevator and Wing Flaps – Check</b></p>
Manufacturer(s):	Schempp-Hirth Flugzeugbau GmbH
Applicability:	<p>Nimbus-4DT powered sailplanes, serial numbers (S/N) from 10 through 15 (inclusive)</p> <p>Duo Discus T powered sailplanes, S/N from 1 through 240 (inclusive)</p> <p>Arcus T powered sailplanes, S/N 1, and S/N from 3 through 30 (inclusive)</p>
Reason:	<p>It was found that, in several cases during the daily inspection, clearly visible cracks in the sailplane propeller hub were not detected by the pilot. The results of a subsequent review revealed that the accomplishment instructions provided to check the powered sailplane's propeller hub and blades were not sufficient to detect cracks and/or other damage.</p> <p>This condition, if not corrected, could lead to propeller hub and/or blades failure, possibly resulting in release of a propeller blade or of any major portion of the propeller assembly and consequent loss of control of the powered sailplane.</p> <p>To address this potentially unsafe condition, Schempp-Hirth Flugzeugbau GmbH issued Technical Notes (TN) 868-21, TN 890-13 and TN A532-1, as applicable to the powered sailplane type, to amend the powered sailplane flight and maintenance manuals with improved daily check instructions, and as well to correct known discrepancies.</p>

	For the reasons described above, this AD requires amendments to the flight and maintenance manuals, replacement of placards and transfer of weight and balance data from the weight and balance report to the weight and balance log sheet. For Arcus T powered sailplanes, this AD also requires a check of the hinge moment and weight of control surfaces and, depending on findings, corrective action.
Effective Date:	[TBD: 14 days after final AD issue date]
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <ol style="list-style-type: none"> <li>(1) Within the compliance times as defined in Table 1 of this AD, accomplish each required action as identified in Table 1 of this AD, in accordance with the instructions of the referenced Schempp-Hirth Flugzeugbau GmbH Technical Notes, as applicable to the powered sailplane type.</li> <li>(2) If, during accomplishment of rudder, elevator and wing flap hinge moment and weight check for Arcus T powered sailplane, in accordance with Action 6 of TN A532-1, as required by the paragraph (1) of this AD, any discrepancy is detected, correct the affected control surface hinge moment or weight, as applicable, in accordance with the approved maintenance instruction.</li> <li>(3) Amendment of the powered sailplane flight and maintenance manual, replacement of cockpit placards accomplished in accordance with TN 868-21, TN 890-13 or TN A532-1, as applicable to the powered sailplane type, may be performed by the Pilot-Owner according to the provisions of M.A.803 of Part M (annex I to Commission Regulation (EC) No 2042/2003 of 20 November 2003).</li> </ol>
Ref. Publications:	<p>Schempp-Hirth TN 868-21 for Nimbus-4DT, issued 15 October 2012,  Schempp-Hirth TN 890-13 for Duo Discus T, issued 15 October 2012,  Schempp-Hirth TN A532-1 for Arcus T, issued 15 October 2012.</p> <p>The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.</p>
Remarks:	<ol style="list-style-type: none"> <li>1. This Proposed AD will be closed for consultation on 04 January 2013.</li> <li>2. Enquiries regarding this PAD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail: <a href="mailto:ADs@easa.europa.eu">ADs@easa.europa.eu</a>.</li> <li>3. For any question concerning the technical content of the requirements in this PAD, please contact:  SCHEMPP-HIRTH Flugzeugbau GmbH, Kребenstrasse 25, 73230 Kirchheim / Teck, GERMANY  Telephone: +49 7021 7298-0, FAX: +49 7021 7298-199  e-mail: <a href="mailto:info@schempp-hirth.com">info@schempp-hirth.com</a>.</li> </ol>

Table 1 Required action and compliance time

Powered sailplane type	Required action	Accomplishment instruction	Compliance time
Nimbus-4DT	Amend the powered sailplane flight and maintenance manual	In accordance with TN 868-21, as applicable	Within 30 days after the effective date of this AD
Duo Discus T	Amend the powered sailplane flight manual	In accordance with Action 1 of TN 890-13	Within 30 days after the effective date of this AD
	Amend the powered sailplane flight and maintenance manual	In accordance with Action 2 and Action 3 of TN 890-13	Within 90 days after the effective date of this AD
	Replace cockpit placard	In accordance with Action 4 of TN 890-13	
	Transfer weight and balance data from weight and balance report into the weight and balance log sheet	In accordance with Action 5 of TN 890-13	
Arcus T	Amend the powered sailplane flight manual	In accordance with Action 1 of TN A532-1	Within 30 days after the effective date of this AD
	Amend the powered sailplane flight and maintenance manual	In accordance with Action 2 and Action 3 of TN A532-1	Within 90 days after the effective date of this AD
	Replace cockpit placard	In accordance with Action 4 of TN A532-1	
	Transfer weight and balance data from weight and balance report into the weight and balance log sheet	In accordance with Action 5 of TN A532-1	
	For powered sailplanes, on which, before the effective date of this AD, rudder, elevator or wing flap repair were accomplished, perform a rudder, elevator and wing flap hinge moment and weight check	In accordance with Action 6 of TN A532-1	