


EASA	AIRWORTHINESS DIRECTIVE
	<p>AD No.: 2013-0012</p> <p>Date: 15 January 2013</p> <p>Note: This Airworthiness Directive (AD) 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>This AD is issued in accordance with EU 748/2012, Part 21A.3B. In accordance with EC 2042/2003 Annex I, Part M.A.001, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].</p>	
<p>Design Approval Holder's Name: SCHEMPP-HIRTH FLUGZEUGBAU GmbH</p>	<p>Type/Model designation(s): Nimbus-4DT, Duo Discus T and Arcus T powered sailplanes</p>
TCDS Number:	EASA.A.063, EASA.A.074, EASA.A.072
Foreign AD:	Not applicable
Supersedure:	None
<p>ATA ATA 11 ATA 27</p>	<p>Sailplane Flight Manual – Amendment Placards and Markings – Replacement Flight Controls – Rudder, Elevator and Wing Flaps – Check</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:	29 January 2013
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <ol style="list-style-type: none"> (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. (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. (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 to Commission Regulation (EC) No 2042/2003 of 20 November 2003).
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"> 1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. <p>This AD was posted on 04 December 2012 as PAD 12-156 for consultation until 04 January 2013. The Comment Response Document can be found at http://ad.easa.europa.eu.</p> <ol style="list-style-type: none"> 3. Enquiries regarding this AD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail: ADs@easa.europa.eu. 4. For any question concerning the technical content of the requirements in this AD, please contact: SCHEMPP-HIRTH Flugzeugbau GmbH, Kребenstrasse 25, 73230 Kirchheim / Teck, GERMANY Telephone: +49 7021 7298-0, FAX: +49 7021 7298-199 e-mail: info@schempp-hirth.com.

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	