

<b>EASA</b>	<b>AIRWORTHINESS DIRECTIVE</b>
	<p><b>AD No.: 2015-0139</b></p> <p><b>Date: 10 July 2015</b></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 21.A.3B. In accordance with EU 1321/2014 Annex I, Part M.A.301, 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 [EU 1321/2014 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><b>Design Approval Holder's Name:</b> SCHEMPP-HIRTH FLUGZEUGBAU GmbH</p>	<p><b>Type/Model designation(s):</b> Duo Discus sailplanes Duo Discus T powered sailplanes Nimbus-4 sailplanes and powered sailplanes</p>
TCDS Number:	EASA.A.025, EASA.A.074, EASA.A.063 and LBA 380
Foreign AD:	Not applicable
Supersedure:	None
<b>ATA 27</b>	<b>Flight Controls – Air Brake Bellcrank – Inspection / Replacement</b>
Manufacturer(s):	Schempp-Hirth Flugzeugbau GmbH
Applicability:	<p>Duo Discus sailplanes, serial numbers (S/N) 1 to 639 inclusive, Duo Discus C sailplanes, all S/N.</p> <p>Duo Discus T powered sailplanes, S/N 1 to 110 inclusive and S/N 112 to 247 inclusive.</p> <p>Nimbus-4D sailplanes, S/N 1 to 15 inclusive, Nimbus-4DT powered sailplanes, S/N 1 to 16 inclusive, Nimbus 4DM powered sailplanes, S/N 1 to 12 inclusive and S/N 14 to 75 inclusive.</p>
Reason:	<p>Operational experience shows that application of an excessive load on the air brake system may induce damage to the drive funnels in the fuselage and to the air brake bellcrank at the root ribs of the wing.</p> <p>This condition, if not detected and corrected, could lead to an uncontrolled actuation of the air brakes (symmetric or asymmetric), possibly resulting in reduced control of the (powered) sailplane.</p> <p>To address this potential unsafe condition, Schempp-Hirth Flugzeugbau GmbH issued Technical Notes (TN) 380-2, 396-17, 868-22 and 890-14 to provide inspection instructions.</p> <p>For the reasons described above, this AD requires repetitive inspections of the</p>

	air brake bellcrank, the air brake drive funnels and the airbrake control system, and replacement of damaged parts.						
Effective Date:	24 July 2015						
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <ol style="list-style-type: none"> <li>(1) Within 40 days after the effective date of this AD, and, thereafter, at intervals not to exceed 100 flight hours, inspect the air brake bellcrank, the air brake drive funnels and the airbrake control system in accordance with the instructions of Schempp-Hirth Flugzeugbau GmbH TN 380-2, TN 396-17, TN 868-22 or TN 890-14, as applicable.</li> <li>(2) Within the compliance time defined in Table 1 of this AD, depending on the finding(s) detected during any inspection, as required by paragraph (1) of this AD, accomplish the actions defined in paragraphs (2.1) and (2.2) of this AD in accordance with the instructions of Schempp-Hirth Flugzeugbau GmbH TN 380-2, TN 396-17, TN 868-22 or TN 890-14, as applicable: <ol style="list-style-type: none"> <li>(2.1) Replace each air brake bellcrank with a reinforced part corresponding to Schempp-Hirth Flugzeugbau GmbH drawing HS11-50.016 Revision a, or later approved drawings; and</li> <li>(2.2) Replace each air brake drive funnel with a reinforced part corresponding to Schempp-Hirth Flugzeugbau GmbH drawing S14FB703 Revision a, or later approved drawings.</li> </ol> </li> </ol> <p style="text-align: center;">Table 1 - Replacement time</p> <table border="1"> <thead> <tr> <th>Findings</th><th>Compliance time</th></tr> </thead> <tbody> <tr> <td>Any crack or damage detected</td><td>Before next flight</td></tr> <tr> <td>No crack and no damage detected</td><td>Within 12 months after the effective date of this AD</td></tr> </tbody> </table> <ol style="list-style-type: none"> <li>(3) Replacement of the air brake bellcrank and the air brake drive funnels, as required by paragraph (2) of this AD, constitutes terminating action for repetitive inspections as required by paragraph (1) of this AD.</li> <li>(4) From the effective date of this AD, installation of an air brake bellcrank is allowed, provided the part corresponds to Schempp-Hirth Flugzeugbau GmbH drawing HS11-50.016 Revision a, or later approved drawings.</li> <li>(5) From the effective date of this AD, installation of an air brake drive funnel is allowed, provided the part corresponds to Schempp-Hirth Flugzeugbau GmbH drawing S14FB703 Revision a, or later approved drawings.</li> </ol>	Findings	Compliance time	Any crack or damage detected	Before next flight	No crack and no damage detected	Within 12 months after the effective date of this AD
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Ref. Publications:	<p>Schempp-Hirth Flugzeugbau GmbH TN 380-2, 396-17, 868-22 and 890-14, dated 16 June 2015.</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. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.</li> <li>2. Based on the required actions and the compliance time, EASA have decided to issue a Final AD with Request for Comments, postponing the public consultation process until after publication.</li> <li>3. Enquiries regarding this AD should be referred to the Safety Information Section, Certification Directorate, EASA. E-mail: <a href="mailto:ADs@easa.europa.eu">ADs@easa.europa.eu</a>.</li> <li>4. For any question concerning the technical content of the requirements in this AD, please contact:</li> </ol>						

	<p>Schempp-Hirth Flugzeugbau GmbH Krebenstrasse 25 73230 Kirchheim/Teck Germany Telephone: +49 7021 7298-0, Fax: +49 7021 7298-199 Email: <a href="mailto:info@schempp-hirth.com">info@schempp-hirth.com</a>.</p>
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