

## Schempp-Hirth (Germany)

Status	Subject	Detail	Reference information	TNS
<b>Contact:</b> UK agents Southern Sailplanes: 01488 71774				
LBA & EASA Airworthiness Directives				
<b><u>Schempp-Hirth Gliders – General.</u></b>				
R	Vertical elevator rod inspection	Inspection. N/A if AD 92-360/2 fully complied with.	BGA 027/04/2002 iss.1	06/02
I	Equipment installations	General instructions published	TN GEN 1	1-2011
I	Manual status	Revision status of manuals	Generic documents	2-2011
<b><u>Open Cirrus &amp; VTC Cirrus</u></b>				
	Askubal fittings	inspection	AD 69-136, TN 1/69	
M	Flutter prevention (elevator)	fit solid drive bar & new mass balance limits	AD 82-103, TN 265-6	08/82
M	Flutter prevention (rudder)	increase mass balance	AD 82-103, TN 265-6	11/82
M	Air brake rod end failure	replace 6 mm threads with 8 mm	AD 85-56, TN 265-8	04/85
	Flight manual changes	C of G position & loading plan	TN 265-7	06/85
M	Airbrake control ball joints	replace with improved type	AD 93-013, TN 265-10	01/93
M	L'Hotellier connectors	add safety pins and annual inspections	AD 93-001& AD 94-001	04/93 & 04/94
	Extension of service	to 6 000 hours	AD 86-15, TN 265-9	
M	Extension of service life	from 3000 hours to 12000 hours after inspections	AD 1998-251, TN 265-9	06/98
<b><u>Std Cirrus including Grob &amp; VTC manufacture</u></b>				
M	Aileron rod in centre section	LH rod jams if disconnected add "catcher" bar	AD 76-8, TN 278-17	04/76
M	Seat pan fouls tow release	reinforce seat pan	AD 76-7, TN 278-18	04/76
M	Cirrus (B&G) flight manual amendments	weights & limitations changed	TN 278-30	09/77
M	Airbrake drive ball joints	replace with improved type change every 500 hours	AD 79-051/4, TN 278-23	12/96
M	L'Hotellier connectors	add safety pins and annual inspections	AD 93-001& AD 94-001	04/93 & 04/94
M	Tailplane drive lower bearing	outer race broken - change bearing type	AD 80-243TN 278-25	12/80
M	Tailplane "T" fitting	cracks at welded joint of pins inspect every 300 hours	AD 80-244/2, TN 278-26	12/80 & 10/92
M	Elevator vertical drive rod in fin	replace (G models only)	AD 92-360/2, TN 278-33	04/93
M	Tailplane lock	inspect & modify if necessary serial numbers 573,586,593,595,597,598,599,601→	AD 95-015, TN 278-36	02/95

## Schempp-Hirth (Germany)

Status	Subject	Detail	Reference information	TNS
M	Extension of service life from Tow release	3 000 to 12 000 hours after inspections Fitment of nose tow release mech.	AD 81-099/2, TN 278-28 TN 278-37	02/96 06/00
<b><u>Cirrus In Service Reports (Advisory)</u></b>				
	Rudder cable	tension inadequate may escape from uncaged pulleys		03/84, 10/83 & 10/73
	Undercarriage collapse	cable stretches & escapes from uncaged pulleys		12/80 & 07/77
	Rudder springs	tension inadequate causes cables to come off rollers in nose		04/84
	Cracks in fuselage centre section	airbrake drive "turntable" support tubes		04/84
	Rudder cables	failure at rudder pedal pulleys		12/91
	Canopy lock	roll pin sheared		09/77
	Wing attachment	spherical bearings break up - fit improved type if necessary		05/82
	Rudder mass balance	unbonded from rudder		08/88
	Elevator drive	horizontal push rod bent and failure in base of fin after incorrect repairs		02/91
I	Tailplane drive	incorrect rigging of tailplane hook not around roller bearing		10/93 & 04/03
	In board aileron hinge	fractured at weld		04/95
<b><u>Discus series</u></b>				
	Tow hook may be replaced	with Europa G 88	TN 360-7	02/92
M	Static vents improved version	eliminates water ingress	TN 360-8	02/92
M	Elevator vertical drive rod replace	up to nos. 446 (a&b), 98 (CS) up to serial number 100 (bT)	AD 92-360/2, TN 360-9 AD 92-360/2, TN 863-3	04/93 04/93
M	Extension of service life from	6 000 to 12 000 hours after inspections	AD 94-031, TN 360-11	04/94
M	Discus BT service life from	6 000 to 12 000 hours after inspections	AD 1999-305	10/99
M	Engine mounting	cracked.	AD 2000-074	12/94
M	Aileron drive jammed below seat	bellcrank bolt fouls on structure		10/96
M	Engine mount	Inspection of engine mount structure	AD 2000-074, TN 863-6	06/00
	Tow release	Fitment of nose tow release mech.	TN 360-37	06/00
O	Wings	Wing tip with winglets, S/N 1>12	TN360-15	04/01
O	Wings	Wing tip with winglets, S/N 13>97	TN360-16	04/01
M	Landing gear	Inspection and modification of landing gear	AD2001-259, TN360-17	10/01
M	Europa G88 C of G hook	Inspection and modification	TN 360-18	04/02
M	Propeller (bM)	Propeller hub & spindle overload device modification	AD2002-199R2, TN863-7	12/02

## Schempp-Hirth (Germany)

Status	Subject	Detail	Reference information	TNS
M	Horizontal Elevator (2a & 2b)	Push rod change and mass balance	AD 2003-048, TN360-19	02/03
M	Flight & Maint. Manuals (2a & 2b)	Revisions	Summary	06/03
M	Flying Controls (2a & 2B)	Add mass balance and install new elevator rod	AD2003-048, TN360-19	06/03
M	Wing (CS & b)	Failure due to manufacturing defects	AD2003-266/2, TN 360-21	10/03
M	Wing (bT)	Failure due to manufacturing defects	AD2003-265/2, TN 863-9	10/03
M	Elevator (2a & 2b)	Elevator jamming due to separation of balance weight	AD2003-280, TN 349-28	10/03
M	Elevator (2T)	Elevator jamming due to separation of balance weight	AD2003-281, TN 863-8	12/03
M	Pylon (2T & 2cT)	Daily pylon inspection, modification or replacement	AD 2006-0227E, TN 836-13	4-2006
M	Pylon (bT, 2T & 2cT)	Revised daily inspection and replace pylon if cracks found	AD 2011-0146	4-2011

### Discus In Service Reports (Advisory)

	Ailerons jammed	miss-assembled bolts foul in fus at auto-connect	06/97 & 08/97
	Rudder drain holes	check that they are clear	04/98
I	Canopy	Opened in flight due to loss of friction in catches	02/01
I	Landing gear	Operating arm failure on landing gear frame. Difficult to inspect.	3-2007

### Janus A, B, C, Ce, CM & CT

M	Elevator drive bracket	(B model only) modify or replace	AD 87-126/3, TN 295-19	10/87
M	Life extension from	3 000 to 12 000 hours after inspections	AD 81-98/2, AD 86-274/2, TN 295-16	10/91
M	Elevator vertical drive rod replace	(not "A" model) up to serial no. 284	AD 92-360/2, TN 295-22	04/93
M	L'Hotellier connectors	add safety pins and annual inspections	AD 93-001/3, AD 94-001/2	04/93 & 04/94
M	Tailplane lock - inspection	modify if necessary	AD 95-015, TN 295-26	02/95
M	Flutter (adj. rear pedals model)	(C only) VNE 108 Kts until modified	AD 90-335, TN-295-21	02/91 & 04/93
M	Flying controls	(CM only) Elevator control system	AD90-335, TN809-8	
M	Elevator flutter - VNE 86 Kts	(C only) until mass balance is fitted	AD 1999-265, TN-295-27	08/99 & 10/99
M	Fuel system modification	(CM & CT only) pipe pumps in parallel	AD 86-135, TN 809-3	10/86
M	Failure of propeller support strut	(CM & CT only) inspection & replacement	AD 85-164, TN 809-1	12/86 & 06/97
M	Changes in engine accessories	(CM & CT only) and changes in placards	TN 809-4	04/87
	Improved propeller (optional)	(CM & CT only) Hoffman HO-IIH-HM-158-BI27	TN 809-6	10/88
	Ignition and generator coils	(CM only) fixings and starter gear cracks	Rotax TB 535-5	08/89
M	Elevator vertical drive rod replace	up to serial number 36 (CM)	AD 92-360/2, TN 809-9, TN 847-4	04/93

## Schempp-Hirth (Germany)

Status	Subject	Detail	Reference information	TNS
		up to serial number 19 (CT)	AD 92-360/2, TN 809-9, TN 847-4	04/93
	Flight manual changes	min seat loads (CM)	TN 809-13	06/98
M	Extension of service life from	(CM & CT only) 6 000 to 12 000 hours after inspections	AD 1999-028, TN 809-14	04/99
M	Elevator flutter - VNE 86 Kts	(CM & CT only) until mass balance is fitted	AD 1999-265, TN 295-27, TN-809-15	08/99
M	Flying controls	Inspection & modification of elevator control system	AD-D-2004-495R1, TN295-30, TN 809-16	12/04
M	Horizontal & Vertical Stab	Balance weights and hinge moments on elevator & rudder	AD 2009-0054, TN295-32, TN809-18	1-2009

### Janus In Service Reports (Advisory)

	Elevator drive may be damaged	by persons standing on the control		09/81
	Tailplane attachment fittings on fin	inspect for cracks		10/96
	Undercarriage lever failed	(C only) at weld at the drive rod tube		10/93
	Engine mounting plate	(CM & CT only) cracked		06/91
	Starter motor mounting	(CM & CT only) failed		02/95

### Nimbus - 2, 2B, 2C, 2CS, & 2M

M	Tail end flutter	increase rudder mass balance		06/75
M	Gross weight & speed increases	(2B) 580 Kg max AUW, 250 Kg max non lifting	TN 286-8, TN 286-22	02/76 & 12/86
M	Brake parachute lever	to be gated & shroud taped to avoid bottom rudder hinge		01/78
	C of G tow hook	replace S 72 hook with G 72	TN 286-14	12/80
	C of G tow hook	G 72 may be replaced with Europa G 88	TN 286-26	02/92
M	Cracks in 'U' bracket on tailplane	(2B only) modify or replace	AD 87-126/3, TN 286-24	
M	Elevator vertical drive rod replacement	(B & C models only)	AD 92-360/2, TN 286-28	04/93
M	Extension of service life to 12 000 hours,	inspections after 3 000 hours and before 1 May 1994	AD 86-036/2, TN 286-22	04/94
M	L'Hotellier connectors	add safety pins and annual inspections	AD 93-001 & AD 94-001	04/93 & 04/94
M	Tailplane lock	(2B&C) Nos 86, 93, 96 → inspect & modify if necessary	AD 95-015, TN 286-33	02/95
M	Tailplane lock	(2M) Nos 4→7 inspect & modify if necessary	AD 95-015, TN 798-3	02/95
M	Flying Controls	(2C) Failure of flap drive mech. In fuselage	AD-D-2005-239, TN286-35	08/05

### Nimbus- 3, 3D, 3DM, 3DT & 3T

## Schempp-Hirth (Germany)

Status	Subject	Detail	Reference information	TNS	
	Ignition and generator coils	fixings and starter gear cracks (3DM)	Rotax TB 535-5	08/89	
M	Elevator vertical drive rod	replacement	3 - all	AD 92-360/2, TN 286-28	04/93
			3T - all	AD 92-360/2, TN 831-	04/93
			3D - up to serial number 11	AD 92-360/2, TN 373-5	04/93
			3DT - up to serial number 35	AD 92-360/2, TN 847-4	04/93
			3DM - up to serial number 24	AD 92-360/2, TN 847-4	04/93
M	L'Hotellier connectors	add safety pins and annual inspections	AD 93-001/3& AD 94-001/2	04/93 & 04/94	
	L'Hotellier connectors	special safety pins		06/93	
M	Service life	Extension inspection	AD 2000-095, TN 874-8		
			AD 2000-075, TN 373-8	04/00	
M	Service Life	Extension to 12000 hours	AD 2002-357, TN 286-34	12/02	
M	Flight & Maint manuals	Revisions	Summary	06/03	
M	Flying controls	Inspection & modification of elevator control system	AD-D-2004-495R1, TN 373-9, TN 847-9	12/04	

### Nimbus 3 In service Reports Advisory

	Tow release	Release cable corroded under seat		04/05
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### Nimbus- 4, 4D, 4DM, 4DT & 4T

M	Engine	Inspections & Modifications to SOLO engine	AD 1999-392, TN 868-9 TN 868-3	02/00 & 06/00
R	Canopy	Locking mechanism modification	TN 868-4	12/01
I	Maintenance manual	Corrections to MB 868-9 & MB 868-11	Revision 18	04/02
M	Propeller (4DM)	Propeller hub & spindle overload device modification	AD2002-199R2, TN868-5	12/02
M	Controls	L'Hotellier ball & socket with lock plates	AD 1993-001/3	
M	Controls	L'Hotellier ball & socket with locking cams	AD 1994-001/2	
I	Engine (SOLO)	Electronic control box change	TN 868-6	02/04
M	Propeller	Hub inspection and overhaul	AD 2006-0294-E, TN868-11	5-2006
M	Powerplant	Attach fittings - exchange bolts	AD 2009-0033, TN868-18	1-2009
M	Engine	Inspection & replacement of starter ring gear	AD 2010-0039-E, TN 868-20	2-2010

### Nimbus 15, 15B & 15C (Mini Nimbus)

## Schempp-Hirth (Germany)

Status	Subject	Detail	Reference information	TNS
M	All moving tailplane	BGA require anti-balance tab on this configuration		
M	Landing gear	fouled by brake arm fit new brake arm	TN 328-5	06/80
	Extension of service life from	3000 hours to 6000 hours after inspections	TN 328-7	04/86
M	Cracks in 'U' bracket on tailplane	(15B only) modify or replace	AD 87-126/3, TN 328-8	08/87
M	Elevator vertical drive rod	replace (B & C models only)	AD 92-360, TN 328-10	01/93
M	Tailplane lock	inspect & modify if necessary	AD 95-015, TN 328-11	02/95
M	Flying Controls	Failure of flap drive mech. In fuselage correction	AD-D-2005-239, TN328-13	2-2006

### Nimbus In Service Reports (Advisory)

	Flap - excessive backlash	caused by corrosion from ballast tank leaks		11/82
	Trim spring system failure	(2C) sheared bolt at the gate		12/91
	Aileron rod end disconnected	not locked at outer aileron		10/94
	Fuel tank support structure	GRP blocks unglued		08/90
	Decompression cable	(3T & 3DT) frayed		06/91
	Front control column	cracks in support structure		02/95
	Release hook	jammed by metal shroud		06/87
	Potential control system fault	incorrect assembly of bolts in levers		06/95
I	Elevator hinge	Cracks in elevator inner hinge mounting lugs on rear spar of tailplane		02/02

### SHK & Standard Austria

	Elevator push-pull rod	Replacement of M6 castle nut	AD1/65	
	Elevator push-pull rod	Redesigned unit	AD2/65	
	Fuselage	glued joints	AD 2-66	
M	Rudder controls	mod to pulleys	AD 67-001	
M	Rear fuselage bulkhead	strengthen attachment	AD 69-30, AD69-31, TN 9	
I	Safety Alert	Follow FM rigging instructions and only use specified tools		5-2010

### SHK & Standard Austria In service Reports (Advisory)

	Tow release cable	corroded		
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## Schempp-Hirth (Germany)

Status	Subject	Detail	Reference information	TNS
	Rudder/elevator assembly	loose on rear fuselage & struts cracked		08/87
	Pitch & yaw controls	incorrectly rigged after repair		08/90
	Restricted aileron control	from 123 mm to 65 mm - after damage repair		08/92
	Rudder cables	worn at connection to mixer unit		06/93
	Rudder control lost	incorrectly assembled cable ends at mixer unit		06/99 & 3-2006

### Ventus a, b, bT, c, cM & cT

	AUW increase	from 948 to 1157 lb after tow hook mount mod	TN 349-7	02/87
M	Flap drive cracking at weld	reinforce torque tube	AD 87-44, TN 349-9	04/87
M	Fuel tank	protection of pilot against injury		08/87
M	Air brakes	jamming of brake cover strip	AD 88-116, TN 825-10	08/88
M	Elevator vertical drive rod	replace up to serial number 568	AD 92-360/2, TN 349-28	01/93
M	Extension of service life	6 000 to 12 000 hours after inspections	AD 1999-001, TN 349-24	
M	Service life increase (T & M)	6000 to 12000 hours after inspections	AD 1999-304, TN 825-21	12/99
M	Drive belt	Tension on SOLO engines	AD 1999-365	02/00
M	Engine mount	Cracks in engine mount structure	AD 2000-074, TN 825-23, TN 863-6	06/00 & 04/00
M	Engine mount	Attachment of fwd spindle drive and pylon	AD 2000-342, TN 825-24	10/00
M	Flaps	Flap drive in fuselage modification	AD2001-258, TN349-9, TN825-29	10/01
R	Tow hook	retro fit of tow release mechanism	TN 825-28	12/01
M	Europa G88 C of G hook	Inspection and modification	TN 360-18	04/02
M	Aerotow hang up	Inspection of Pitot Tube/hook aperture in nose	BGA 030/04/2002 iss.1	06/02
M	Flight & Maint manuals	Revisions	Summary	06/03
M	Flight controls (C with b fus, cT cM)	Automatic control attachment insp.	AD D-2005-375, TN 349-30, 825-335	10/05
M	Pylon (cT)	Revised daily inspection and replace pylon if cracks found	AD 2011-0146	4-2011

### Ventus 2a, 2b, 2c, 2cT & 2cM

	Flight & maintenance manual	changes (2a, 2b & 2c)	TN 349-23	06/98
	Flight & maintenance manual	changes (2cT & 2cM)	TN 825-20	06/98
M	Modifications to SOLO engine		AD 1999-392, TN 825-27	02/00

## Schempp-Hirth (Germany)

Status	Subject	Detail	Reference information	TNS
M	Drive belt	Tension on SOLO engines	AD 1999-365, TN 825-22	02/00
I	Noise certificate	S/N 44 & 46>95	TN825-25	04/01
O	Fuel system	Fuel shut off valve and tank locking device	TN825-26	04/01
M	Landing gear	Inspection and modification of landing gear	AD2001-259, TN349-25, TN825-27	12/01
M	Propeller (SOLO engine)	Attachment of forward spindle bracket	AD2000-342, TN 825-24, Mod MB 825-27	
M	Europa G88 C of G hook	Inspection and modification	TN 360-18	04/02
I	Maintenance Manual	Corrections to MB 825-27 & MB 825-30	Revision 23	04/02
M	Propeller (Solo engine) 2cM	Hub & spindle overload device mod. S/N 44,46 > 120	AD2002-199R2, TN825-31	12/02
O	Wings	New Tailplane and Winglets Avail S/N 2 > 120	TN349-27	04/03
M	Flight & Maint manuals	Revisions	Summary	06/03
M	Elevator (2a & 2b)	Elevator jamming due to separation of balance weight	AD2003-280, TN 360-20	10/03
I	Engine (SOLO)	Electronic control box change	TN825-32	02/04
R	Seat Back Location	Modification to fit retaining springs (Key hole slot design)	BGA 040/06/2004 iss 1	06/04
R	Seat Back Location	Inspection of location springs (Key hole slot design)	BGA 041/06/2004 iss1	06/04
M	Pylon (2cT)	Daily inspection, modification or replacement	AD 2006-0227E, TN 825-38	4-2006
M	Powerplant	Attach fittings - exchange bolts	AD 2009-0034, TN825-47	1-2009
M	Engine	Inspection & replacement of starter ring gear	AD 2010-0039-E, TN 825-49	2-2010
M	Pylon (2cT)	Revised daily inspection and replace pylon if cracks found	AD 2011-0146	4-2011

### Ventus in service reports (Advisory)

I	Canopy	Opened in flight due to loss of friction in catches		02/01
	Radio installations	foul stick		12/91
	GPS Suppressor	Ferrite suppresser fouling aileron rod under seat		04/00
I	Canopy	Opened in flight due to loss of friction in catches		02/01
I	Pylon	Cracked pylons reported		6/2010
I	Pylon	Cracks reported in Ventus 2cT		1-2011

### Duo Discus series including "T"

R	Canopy	Locking mechanism modification	TN396-6	12/01
O	Airbrakes	Modification to reduce operational forces	TN 396-7, 890-1	04/02

## Schempp-Hirth (Germany)

Status	Subject	Detail	Reference information	TNS
M	Solo Engine	Modification to propeller hub mounting	AD 2002-130/2, TM 4603-11	04/02
M	Structural inspection "T"	Wing spar bonding inspection	AD 2003-245/2, TN890-3	08/03
M	Structural inspection	Wing spar bonding inspection	AD 2003-246/2, TN396-8	08/03
M	Structural inspection	Wing spar bonding inspection (additional aircraft)	AD D2004-084, TN 396-9	02/04
M	Propeller	Hub inspection and overhaul	AD 2006-0294-E, TN890-8	5-2006
<b><u>Duo Discus In Service Reports (Advisory)</u></b>				
	Undercarriage lever	travel restricted handle rotated - loctite into place		12/97
	Canopy release	Failure of locking mech. At welded joint.		06/00
I	Canopy	Opened in flight due to loss of friction in catches		02/01
I	Air brakes	Control rod bolt failed at self connecting coupling		02/04
I	Tow release	Fraying release cable inside tee handle		4-2007
I	Self connecting controls	Cracked automatic control coupling		1-2009
I	Engine	Incorrectly drilled holes in manifold filled with resin causing starting and running problems		4-2011
I	<a href="#">Controls</a>	<a href="#">Partial aileron jam. Wing tip aileron extension stop detached</a>		<a href="#">5-2011</a>