

## Engines

Status	Subject	Detail	Reference information	TNS
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### **BOMBARDIER-ROTAX SERIES ENGINES**

**Contact:** UK Distributor – Skydrive Ltd, 01926 612188, e-mail [skydrive@avnet.co.uk]

Rotax service bulletins can be downloaded from the Internet [www.rotax-aircraft-engines.com]

#### **Rotax General**

**Note: Rotax Service Bulletins not supported by AD have been removed form list.**

**For applicable service bulletins refer to Rotax literature and web site**

M	Generic requirement 24 for engine life extension not applicable for Rotax Engines		04/05
M	Maintenance Schedule	New On Condition for all Rotax 2 stroke engines models 275, 501, 505, 535. SB 505-010, SB 535-009	5-2006

#### **Rotax All In Service Reports (Advisory)**

I	Air supply	Pulse air supply tube restricted	06/01
I	Ignition	BOSCH spark plug cap shorting internally (broken)	06/01
I	2 Stroke engines	If left to dry out oil can thicken and turn to “varnish”	08/01
R	Lubrication	BGA recommendation to change oil @ 25hrs if using Leaded Avgas SI 18-1997 R4	04/04
I	Charging system information	Checking 866 080 regulators	06/03
I	Unleaded fuel	Use of unleaded fuel is permitted if specified in CAA approved flight manual AW Notice 98c	04/04
I	Engine problems	Very expensive engine contamination when using Avgas	04/04
I	Starting problems	If cranking engine is a problem do not persevere seek advice as engine damage can result	06/05

#### **Rotax 912 series**

M	912A. 912A. Engine	Rework to ensure proper contact between attachment screws and stator	AD75, TB912-02
M	912A, F. Propeller gearbox	Inspection and exchange of gearbox	AD 101 SB912-027R1, 04/00

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Status	Subject	Detail	Reference information	TNS
M	912A,F Starter	Engine starter inspection	AD 98 912-026R3	06/00
M	912A. Ignition	Production problems in ignition unit	AD80, TB912-06	
M	912A. Ignition	Ignition problems in areas of heavy radio Transmission	AD82, TB912-07	
M	912A. Carburettors	Possible contamination of carburettors	AD83, TB912-09	
M	912A. Electronic module	Problems with SMD Electronic module in areas of heavy radio transmissions	AD84, TB912-08	
M	912 A3. Gearbox	Exchange of propeller gearbox	AD89, TB912-19	
M	912A & 912UL. Camshaft	Inspection of camshaft	AD92/1, TB912-18	04/97
M	912A & 912F. Fuel pump	Exchange fuel pump and steel fuel line	AD94/1, TB912-20	04/98
M	912A, 912F. Stator	Inspection of engine Stator assay.	AD98, SB912-026R3	06/00
M	912A,F,S. Valves	Replacement of valve spring retainers	AD108, SB912-022	06/01
M	912 Fuel pump	Inspection/replacement AD Cancelled by EASA	AD109, SB912-031 <del>AD113R1, SI 912-010R1</del>	12/01 3-2009
M	912 A/F/S Engine mount	Inspection	AD105R1, SB912-028R1	02/03
M	912 A/F/S Crankcase	Inspection	AD107R3, SB912-029R1	04/03
M	912 A, F, S Oil system	New Oil Dip stick	AD 116, SB912-040 R1	10/03
M	912 A, F, S Coolant	Introduction of new coolant	AD-A-2004-004R2, SB-912-043	2-2006
M	912 A, F, S Oil system	Inspection of magnetic plug within 5 hours and at oil change	AD 2006-0316-R1, SB 912-051	2-2008
M	912 series Inspections	Crank case inspections	AD 2007-0025, SB912-029R3	1-2007
M	912 series Fuel pump	Replacement of fuel pump	AD 2007-0060R1-E, SB912-053	2-2007
M	912 series Coolant	Coolant specification	AD 2007-0155	3-2007
O	912 TBO	TBO extended to 2000 hrs or 15 years	SB 912-057	5-2009
M	912 Magneto	Magneto flywheel hub washer	AD 2011-0067-E, SB912-058	2-2011
M	912 Crankshaft	Crankshaft crack inspection	AD 2011-0224-E, ASB 912-059	6-2011

### **Rotax 914 series**

M	914F. Mixture	Verification or calibration of the mixture enrichment jet	AD88, TB914-03	
M	914F. Oil System	Check of banjo bolt in turbo charger line	AD90, TB914-04	
M	914F. Oil System	Replacement of turbo oil pressure line and pipe clamps	AD95, TB914-07	10/98
M	914F, Propeller gearbox	Inspection and exchange of gearbox	AD 101, SB914-010R1	04/00
M	914F Starter	Engine starter inspection	AD 98, 914-014R3	06/00
M	914F. Stator	Inspection of engine Stator assay.	AD98, SB914-014R3	06/00

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M	914F Valves	Replacement of valve spring retainers AD Cancelled by EASA	AD108, SB914-011 <del>AD113R1, SI 914-022R1</del>	06/01 03-2009
M	914 F Engine mount	Inspection	AD105R1, SB914-016R1	02/03
M	914 F Exhaust	Inspection	AD106R1, SB914-017R1	02/03
M	914 F Crankcase	Inspection	AD107R3, SB914-018R1	04/03
M	914 F Oil system	New Oil Dipstick	AD 116, SB914-026 R1	10/03
M	914 F series Exhaust	Inspection	AD 117, SB 914-028R1	10/03
M	914 F Coolant	Introduction of new coolant	AD-A-2004-004R2, SB-914-029	2-2006
M	914 F Exhaust	Inspection of Muffler	EASA AD 2006-0127, SB-914-028 R1	3-2006
M	914 F Oil system	Inspection of magnetic plug within 5 hours and at oil change	AD 2006-0316-R1, SB 914-034	2-2008
M	914 series Inspections	Crankcase inspections	AD 2007-0025, SB914--18R3	1-2007
M	914 series Coolant	Coolant specification	AD 2007-0155	3-2007
O	914 TBO	Extended to 2000 hrs/15 yrs	SB 914-039	2-2010
M	914 Magneto	Magneto flywheel hub washer	AD 2011-0067-E, SB914-041	2-2011
M	914 Fuel	Fuel regulator insp & replacement	AD 2011-0082, SB 914-040	3-2011
M	914 Crankshaft	Crankshaft crack inspection	AD2011-0224-E, ADB 914-042	6-2011
<b>Rotax 500 series</b>				
M	501 & 505. Piston pin bearing	Conversion to reinforced design	AD64, SB505-05	
M	505 & 505A. Ignition	Conversion to the new electronic box	AD69, TB505-06	
M	Maintenance Schedule	New On Condition for all Rotax 2 stroke engines models 275, 501, 505, 535.	SB 505-010, SB 535-009	5-2006
<b>SOLO ENGINES</b>				
M	2350 series	Modification to propeller mountings	AD 2002-130/2, TM 4603-11	04/02
I	2625-01 & 02	Change of electronic control box	(Schempp Hirth TN 825032, 868-6)	02/04
I	various	Cracked starter ring gear		1-2007
M	2 625	Prop slip clutch inspection/modification	AD 2007-0001R1-E	1-2007
M	Maintenance	Solo engines in are subject to the following; Annual checks Model 2 350 – 5 Year special inspection and 200 hour TBO Model 2 350 suffix C or D - 200 hour TBO		

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I	2 350 & 2 350D	Details on Schempp-Hirth web site are currently incorrect (5/3/10) Incorrectly drilled holes filled with resin	SB 4603-12	1-2010 5-2011
<b>HIRTH F10 SERIES ENGINES</b>				
M	F10. Operation & maintenance	Operation and maintenance instructions for F10 aircraft engines – revision	AD69-142	

### LIMBACH SERIES ENGINES

Limbach UK Service Agent – Anglia Sailplanes <http://www.angliasailplanes.co.uk/index.php> +44 (0) 1379 741188

M	L1700, L2000, L2400. Carburettor. Leaking carb. Floats due to manf. Errors		AD97-237, TB55	02/94
M	SL1700E, EA, EB, EC. Mixture.	Mixture control – Rubber diaphragm of the governor piston	AD76-238, TB12	10/87
M	L2000EA. Starter Unleaded Mogas	Starter shaft support case of electric Starter use of	AD97-003, TB52 TB50 & 53	04/97 10/99
M	L2400 Controls	Throttle lever spring breaking	AD-D-2005-275	08/05

#### In Service Reports (Advisory)

	Engine oil dipstick calibration to prevent over/under filling see Limbach TB 27			02/05
	Suspect bent crankshaft and prop flange and crankcase cracks (oil leaks) after hard landing with VP prop and NO prop strike			06/05

### MID WEST ENGINES

M	Generic Requirement No 24 for engine life extension not applicable for Mid West Engines			04/05
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### VW DERIVATIVE POWERPLANTS

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Status	Subject	Detail	Reference information	TNS
I	Stamo Engines	Use of Unleaded mogas		12/99
	Crankshaft	Inspect for damage to the propeller shaft		04/00
	Stamo Engines	Propeller hub fixing bolt torque 20 MKG		04/00
I	Rollason RS2	Cracked crankshaft at propeller flange drive keyway		1-2007
<b>GENERAL ENGINE INFORMATION</b>				
	Aeroquip Hoses	Some are suspect See – Equipment section		10/88
	Slick Magnetos	Inspections and service lives See – Equipment section		12/97
M	Stromberg Carburettors	Fit service kit at 500 hrs		10/87
	Unleaded Mogas	See CAA Airworthiness Notice 98c		12/99
M	Bendix Magnetos	Inspections and service lives See – Equipment section		
M	Exhaust heat exchangers	Annual pressure test at 20 psi		08/92
	Motor Glider	Performance Data for C of A air test		10/98
	PVC Tubing	PVC tubing shrinks and becomes hard and brittle with prolonged exposure to fuel. Replace regularly.		04/99
	General	Reminder that engines, propellers, magnetos, hoses have service lives.		08/00
I	Flexible Hoses	Fatigue problems on incorrectly clamped hoses		08/05
I	Carburettors	FAA Special Airworthiness Information Bulletin for carburettor overhaul	NE-10-05	4-2009
A	Engine controls	Melting plastic liners. Ensure control is suitable in hot areas		2-2010