

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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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	AD109, SB912-031	12/01
M	912 A,F,S Oil system	Inspection for correct ventilation	AD113R1, SI-912-010R1	04/03
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

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
M	914F Valves	Replacement of valve spring retainers	AD108, SB914-011	06/01
M	914F Oil system	Inspection for correct ventilation	AD113R1, SI-914-022R1	04/03
M	914 F Engine mount	Inspection	AD105R1, SB914-016R1	02/03

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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

Rotax 500 series

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

SOLO ENGINES

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 self sustainers are subject to the following; Annual checks 5 year special inspection 200 hour overhaul Details on Schempp-Hirth web site		5-2007

HIRTH F10 SERIES ENGINES

M	F10. Operation & maintenance	Operation and maintenance instructions for F10 aircraft engines – revision	AD69-142	
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LIMBACH SERIES ENGINES				
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
<u>In Service Reports (Advisory)</u>				
		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
VW DERIVATIVE POWERPLANTS				
I	Stamo Engines Crankshaft	Use of Unleaded mogas Inspect for damage to the propeller shaft		12/99 04/00
I	Stamo Engines Rollason RS2	Propeller hub fixing bolt torque 20 MKG Cracked crankshaft at propeller flange drive keyway		04/00 1-2007
GENERAL ENGINE INFORMATION				
	Aeroquip Hoses	Some are suspect See – Equipment section		10/88

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	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