## **INITIAL OIL INSTALLATION PROCEDURE**

DATE:	SERIAL NUMBER:	 TECH:

**Note:** At the time of this publication, the Rotax Installation & Maintenance Manuals recommend the first oil change at 25 hours and every 100 hours thereafter - unless using AvGas/100LL, then every 50 hours.

**Note:** The instruments, equipment and/or configuration in this procedure may differ from that of your aircraft. Consult the Rotax Installation or Maintenance Manual or call Wild Sky for help.

<u>Done</u>	<u>Step</u>	Instruction	Image
	1	Refer to the Rotax 912 Oil Installation manual. Verify that Oil Lines are routed correctly. Confirm the Oil Reservoir & all Connections are properly connected & tight. Verify that Oil Cooler is installed in the Suction Line between the Oil Reservoir and the Oil Pump inlet. <b>NOTE</b> : Disregard the Pressure Line in this diagram unless working on a 914 Turbo Engine.	
	2	Secure connections by slightly loosening nuts using wrench, then tighten to manufacturer specifications (refer to Rotax Installation Manual) to verify proper connection.	

3 F F t 2 8 i 1 f f 7 c	Remove & clean the Oil Reservoir Cap & Dipstick, then put them in the Font Seat – or somewhere that guarantees their re- installation. Do NOT just set them on a flat spot anywhere on the aircraft Verify Oil Reservoir quick drain is properly CLOSED.	
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4	The entire Oil system is approximately 3 Liters or 3 Quarts but note that a liter is 34oz and a Quart is only 32oz. Use of a flexible funnel to fill Reservoir is highly suggested. Review Rotax 912 Oil Installation Manual for recommended Oil Brands & current versions.	AcroShell Disport Bardon de Column address Bardon de Column address Bar
 5	Dipstick is located under	

Dipstick is located under cap in Oil Reservoir. Verify that the Oil Reservoir is filled up to the maximum level (To the top of the flat portion of the Dipstick).



6	Additional oil, up to .5 liters may be added to the Oil Reservoir for this procedure. Use of a flexible funnel to fill Reservoir is highly suggested. See Rotax Manual for approximate capacities.	EPDM/ AR/





9	Place the free end of the Oil Return Line into a suitable container below the engine. We typically attach a Ziplock Bag via a	
	see Oil arrive in the bag.	

	10	plug on the Oil Reservoir fitting marked "IN". We typically use a Fragola or Aerquip Fitting with a Plug. Use Wrench to tighten.	<image/>
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 11
 Remove all Spark Plug Boots from the Spark Plugs. Be sure to Label where each corresponding Wire goes for proper reassembling.

 Wire goes for proper reassembling.
 Remove all Spark Plug Wire goes for proper reassembling.

	12	Clean area and Remove Bottom Spark Plug from each Cylinder.	
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15	Turn Master "ON". This allows power to view the Oil Pressure Gauge.	ЛАБ 1	MAG 2	START	MASTER
	STEPS (15-21) are done simultaneous.	DFF	DFF		
		5)	2		





18	Use an appropriate Air Delivery Nozzle or Schrader Air Fitting. Place Air Nozzle into the end of the Oil Reservoir Breather Line. Begin to Pressurize. ** <u>Caution</u> : It is Possible to empty the Oil Reservoir during this operation and as a result introduce more air into the Oil System. Pay attention to the Oil Level and fill Oil Reservoir as required during purging operation. **	
19	Turn the Prop/Engine in direction of normal rotation. There should be no compression/ resistance from the engine due to one spark plug being removed from each cylinder. Normally, this operation will take approximately 20 to 60 turns.	<image/>
20	During Pressurization and Normal Rotation of Propeller. You want to read the Oil Pressure Gauge at somewhere between 30-40 PSI. You may hear slight air coming out of the Oil Reservoir Cap.	CURRENT BBB BBB

22	Pressure is confirmed, release the Air pressure from Oil Reservoir. Turn Master "OFF".	AGREER AFF CO CO CO CO CO CO CO CO CO CO
22	Once Adequate Oil	MAG START
	Pressure is confirmed, release the Air pressure	
	from Oil Reservoir. Turn	
	Master "OFF".	OFF CH ( C )
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	24	Remove Temporary Cap from Oil Reservoir fitting marked "IN".	
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26Tighten Oil Return Line<br/>using a wrench to engine<br/>manufacturer specs. See<br/>Rotax Installation Manual.Reroute & secure Vent<br/>Line if disturbed during<br/>this process.



27       Replace Spark Plugs to "finger-tight."         Remember to use proper Thread Coating to Engine Specification.
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Assuming this is a Rotax 912-series engine, torque Spark Plugs to 177 in/lbs (Confirm with Rotax	accerte some	28	Assuming this is a Rotax 912-series engine, torque Spark Plugs to 177 in/lbs (Confirm with Rotax Engine Installation Manual). Keep Spark Plug Wires Removed.	Hand Hand Hand Hand Hand Hand Hand Hand
	Keep Spark Plug Wires Removed.		Engine Installation Manual).	
Engine Installation Manual).			Keep Spark Plug Wires Removed.	



30	Remove Oil Reservoir Cap.	
31	Residual Oil will have	

	accumulated in the Crankcase. Return it to the Oil Reservoir by turning the Propeller in the direction of Proper Rotation until the Oil Reservoir "BURPS".	
32	Check Oil Quantity Level on Dipstick.	

33	Add additional Oil to Oil Reservoir as needed. We recommend using a flexible funnel during this operation.	<image/>



36	Re-Attach Spark Plug Wires to Corresponding Cylinders. Replace any routing stand- offs & check entire engine for loose items, parts & tools. Make sure engine is clean.	

<u>Date:</u>	Owner/Technician: