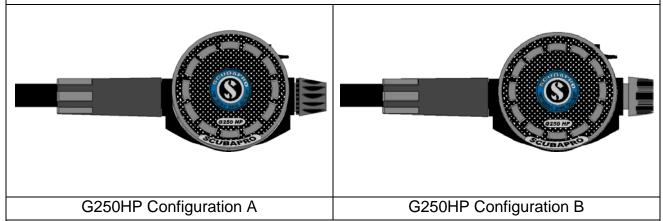
SCUBAPRO Repair Guide

G250HP Second Stages



USE THIS GUIDE AS A REFERENCE WHEN SERVICING THE G250HP SECOND STAGES

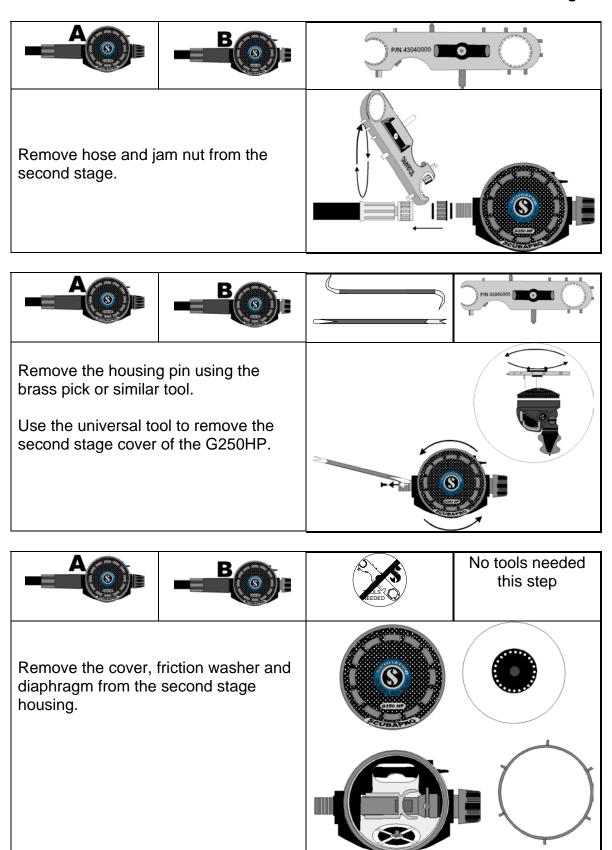
TOOLS NEEDED FOR REPAIR OF G250HP

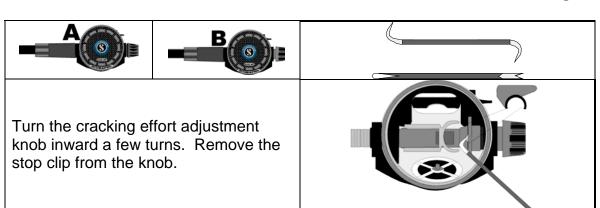


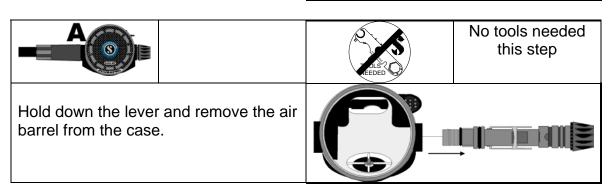
0 - 111	Double to the second se		
Quantity	Part Number	Description	
1	43.300.227	Balance Chamber Adjusting Tool	
1 set	10.102.100	Brass o'ring picks	
	(Peter Built)		
1 tube	41.047.000	Christo-Lube	Christo-Lube OCCUPATION COMPATIBLE LUBRICANT OCCUPATION OF THE ACT OF THE A
1	47.010.000	Counter Mat	SCUBAPRO
1	41.496.101	Lubricant syringe	Manajed
1	43.040.000	Universal Tool	7 P.N. 4304000
	(Scubapro)		7
1		Jeweler's screwdriver (3mm)	
1		Philip's Screwdriver	
1	11.153.500 (Peter Built)	Ball-end Allen Wrench	
1	43.300.225 (Scubapro)	VIVA Flow Vane Removal Tool	
1	20.500.200 (Peter Built)	Pneumatic Adjusting tool	
1	18.300.500 (Peter Built)	Blow Gun/Air Nozzle	

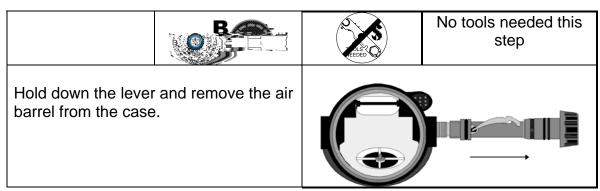
ICON LEGEND

10011 EEGEND				
	Inspect carefully,	replace if needed		
Manaject	Lubricate properly			
	Replace annually			
	Dynamic o'ring, replace annually and lubricate properly			
A.S. C.	No tools needed for this step			
A	B	Indicates the regulators affected by this step		



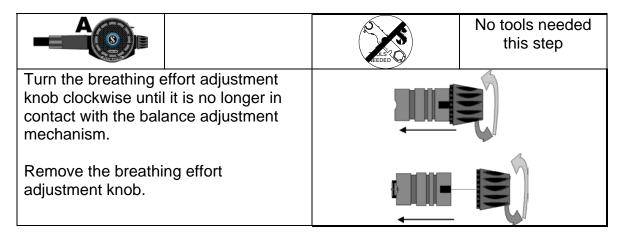


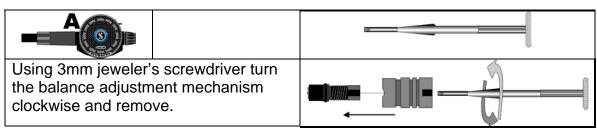


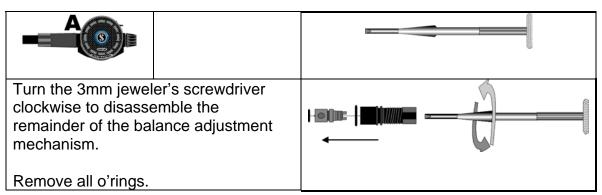


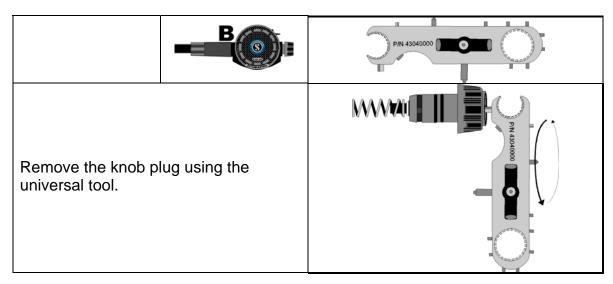


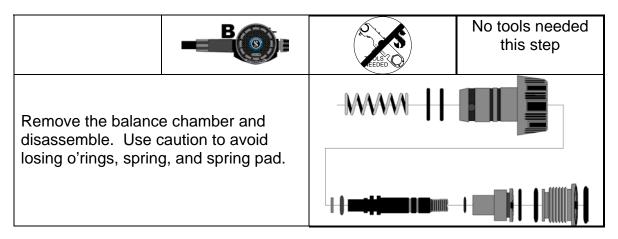


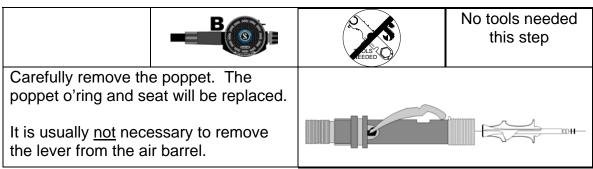


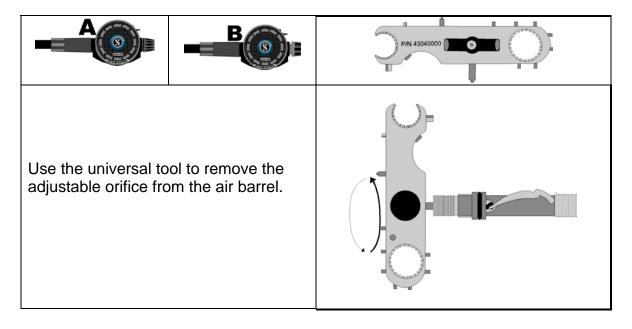












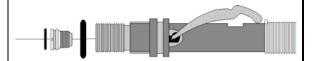






No tools needed this step

Remove the adjustable orifice. Take off the adjustable orifice o'ring, as it will be replaced. Remove the air barrel o'ring for inspection.



A wooden dowel or "chopstick" may be helpful in removing the orifice.

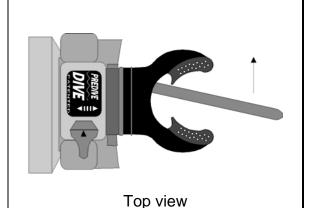




This Step Is Only Performed As Needed

When it is necessary to remove the VIVA flow vane, use the flow vane removal tool (p/n 43.300.225). Be certain to remove the diver breathing adjustment knob prior to use.

This step is seldom needed, unless the VIVA flow vane o'ring is worn or damaged.



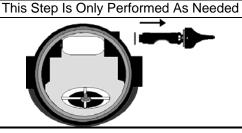






No tools needed this step

If the VIVA flow vane is removed, it may be necessary to replace the entire VIVA assembly, including the o'ring.



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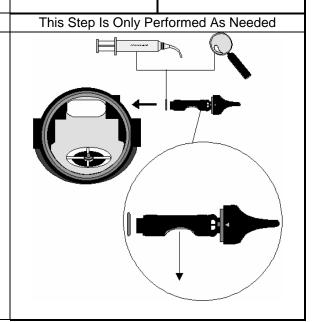
Carefully inspect and lubricate the o'ring. The venturi vane is reversible.

Maximum VIVA:

Place the new knob and vane assembly back into the housing with the crescent-shaped notch facing forward toward the back of the diaphragm for maximum VIVA. Minimal VIVA:

Place the new knob and vane assembly back into the housing with the crescent-shaped notch facing forward toward the mouthpiece opening for minimal VIVA (ie: for rental equipment).

Push the vane inward until it is locked in place.





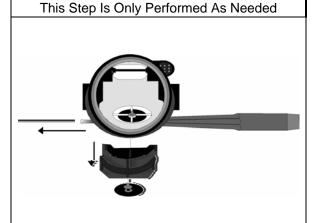


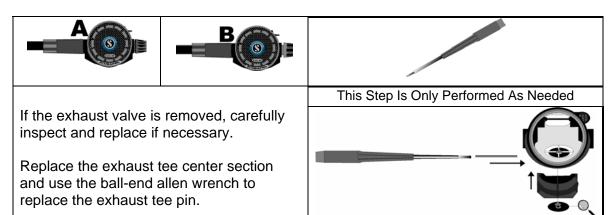


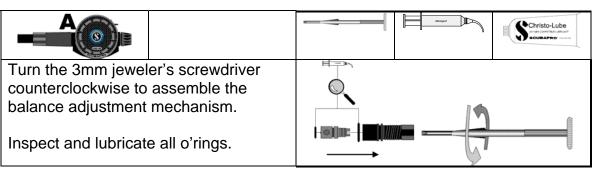
If removal of the exhaust valve is necessary, use the ball-end allen wrench to push out the exhaust tee pin. Remove the center section of the exhaust tee.

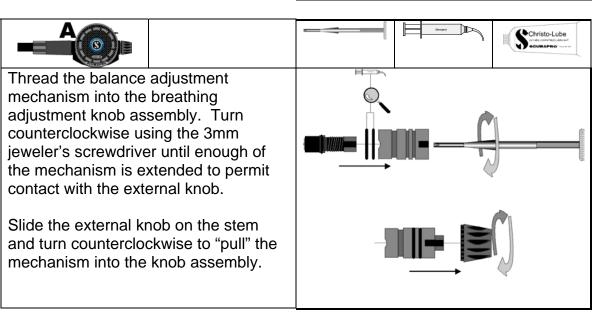
To remove the exhaust valve, grasp with fingers and pull firmly out.

The exhaust valve will seldom need to be replaced. Careful inspection is usually all that is necessary. If the valve is removed during service, it may be damaged during the process, requiring replacement.









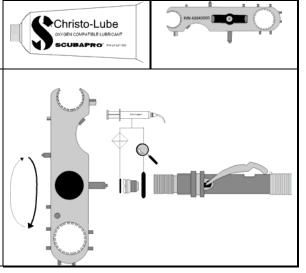
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Replace the adjustable orifice o'ring and lubricate properly. Inspect the air barrel o'ring and replace if necessary. Lubricate properly.

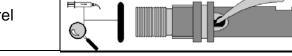
Push the adjustable orifice in, and then use the universal tool to turn in the adjustable orifice one turn.





Christo-Lube

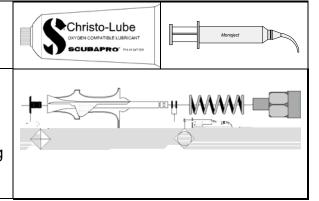
Inspect and lubricate the air barrel o'ring.

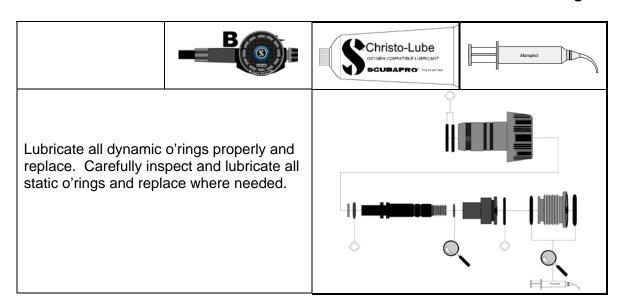


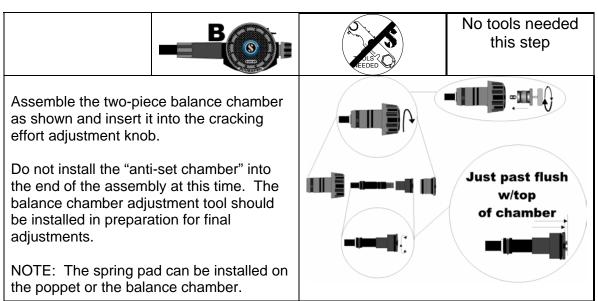


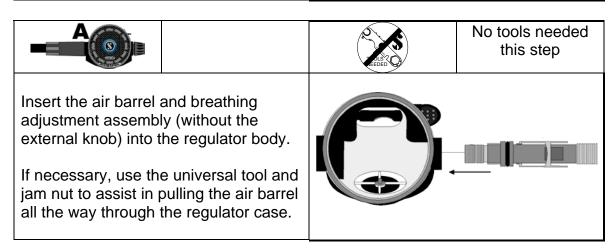
Prepare the poppet by replacing the seat and replacing/lubricating the dynamic o'rings.

NOTE: Do not install the poppet/spring or balance chamber into the air barrel at this time.

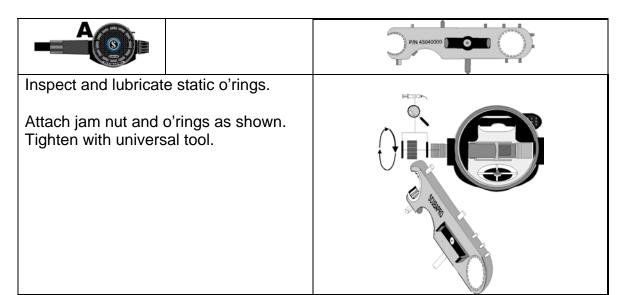


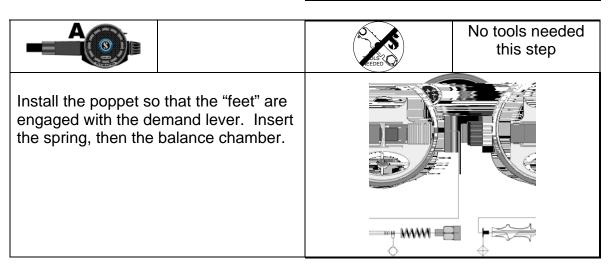


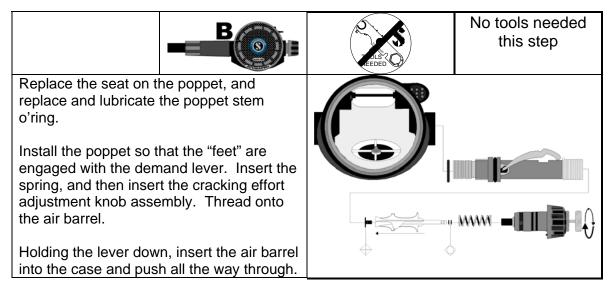




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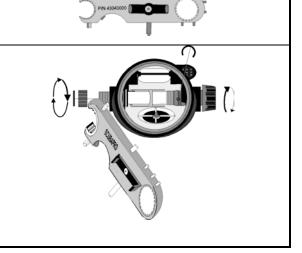
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Attach the jam nut on the air barrel. Place the o'ring on the air barrel next to the jam nut if needed.

Thread the cracking effort adjustment knob inward until there is enough clearance to install the stop clip.

Press the stop clip carefully into place. Back the adjustment knob out against the clip ensuring that it stops.





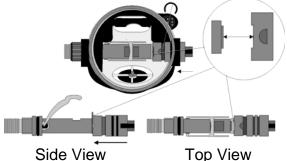
Insert the breathing adjustment assembly without the external knob onto the air barrel.

Push the assembly all the way onto the barrel, being sure to engage the notch on the assembly with the key on the air barrel as shown

Install the stop clip.



No tools needed this step



mstall the stop clip







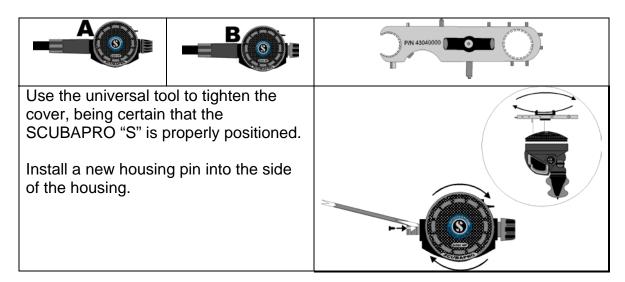
No tools needed this step

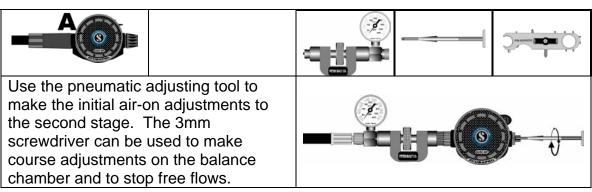
Inspect the diaphragm for wear, and replace if necessary.

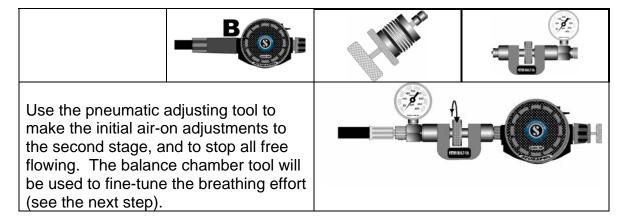
Install the diaphragm and friction washer, being certain that the two pieces lay flat inside the second stage housing. Note that the friction washer uses an alignment tab to prevent movement once installed.







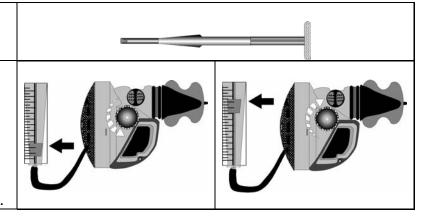






Adjusting the balance chamber counter clockwise reduces cracking effort.

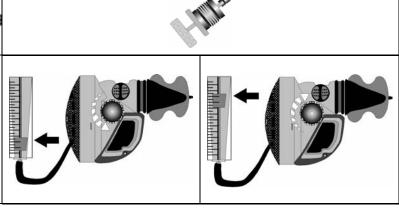
Adjusting the balance chamber clockwise increases cracking effort.





Adjusting the balance chamber counter clockwise reduces cracking effort.

Adjusting the balance chamber clockwise increases cracking effort.





Inspect and lubricate the external adjustment knob o'ring.

Re-install external breathing adjustment knob and tighten using the Philips screwdriver.

Make any additional adjustments using the pneumatic adjusting tool.

