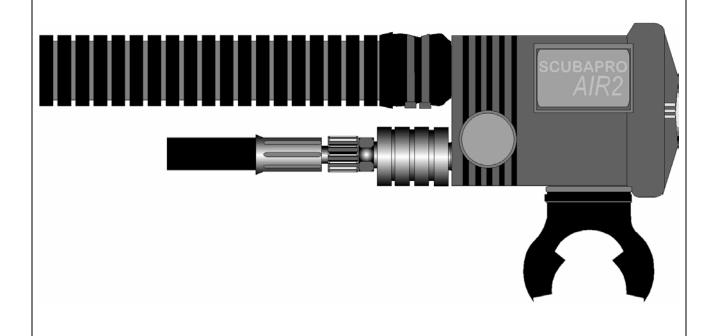
SCUBAPRO Repair Guide AIR 2 Alternate Inflator Regulator

USE THIS GUIDE AS A REFERENCE WHEN SERVICING THE AIR 2 (3rd and 4th Generation)

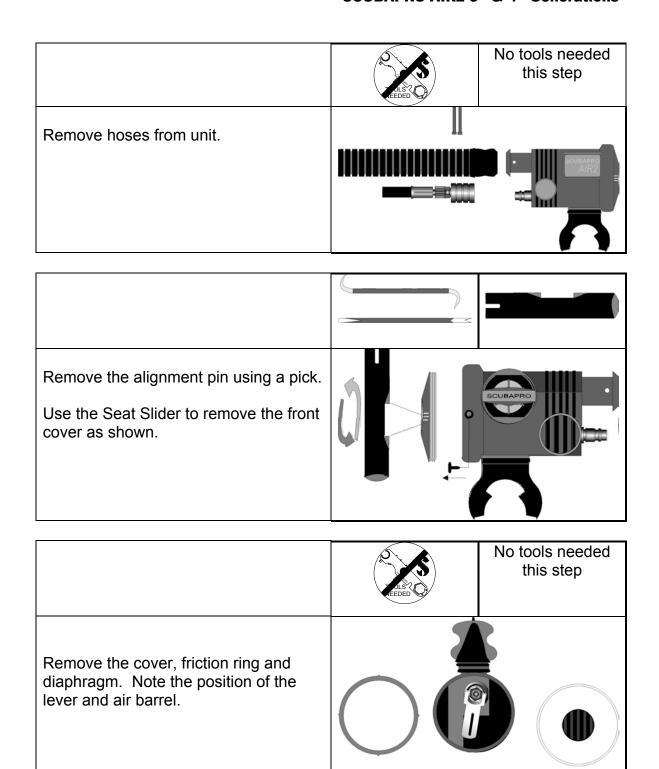


TOOLS NEEDED FOR REPAIR OF AIR2



Quantity	Part Number	Description	
1 set	10.102.100 (Peter Built)	Brass o'ring picks	
1 tube	41.047.000	Christo-Lube	Christo-Lube OCCUR COMPATIBLE LUBICARY OCCURATING COMPATIBLE CUBICARY
1	47.010.000	Counter Mat	SCUBAPRO
1	41.496.101	Lubricant syringe	
2		Adjustable wrench	
1		Small screwdriver	
1	20-136-100	Air 2 Spider Tool (Peter Built)	TÜH
	20-125-200	Seat Slider (Peter Built)	
1	20.500.200 (Peter Built)	Pneumatic Adjusting tool	
1	18.300.500	Blow Gun/Air Nozzle	
1		1/4" Nut Driver	
1	43.040.000	Universal Tool	PN 450000
1	79-400-505	Magnehelic Gauge (Peter Built)	CONTRACTOR OF THE PARTY OF THE
1		Torque Wrench - 100 in-lb range	7 3 4 5 4 3 2 7 Torque

	Inspect carefully, replace if needed	
Mongled	Lubricate properly	
	Replace annually	
	Dynamic o'ring, replace annually and lubricate properly	
EEDED O	No tools needed for this step	



Remove the "c" clip using a pick or other tool.

Avoid scratching the Air 2 body with a sharp instrument.

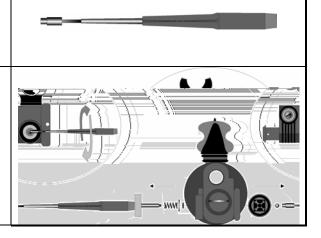
Push the air barrel forward, removing it through the front cover area.

Use the seat slider tool to loosen and remove the covers for the exhaust valve and the inflation valve.

Use the Air 2 spider tool to loosen the exhaust valve "spider." Remove the spider, exhaust valve, and washer.

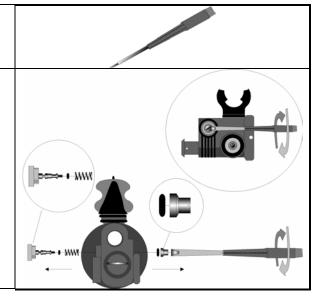
Remove the nyloc nut holding the exhaust seat assembly together.

CAUTION: Hold the exhaust button in while performing this step to prevent loss of spring.



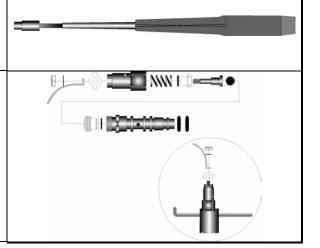
Carefully remove the inflation seat.

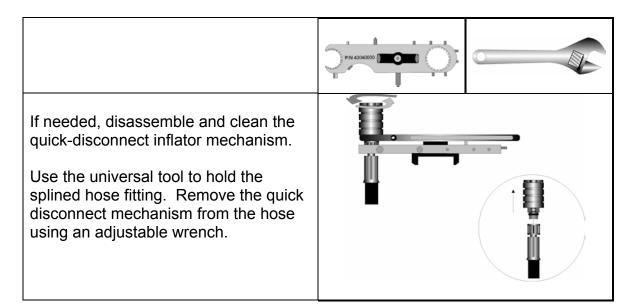
CAUTION: Keep constant pressure on the inflation button while loosening to prevent loss of the spring.

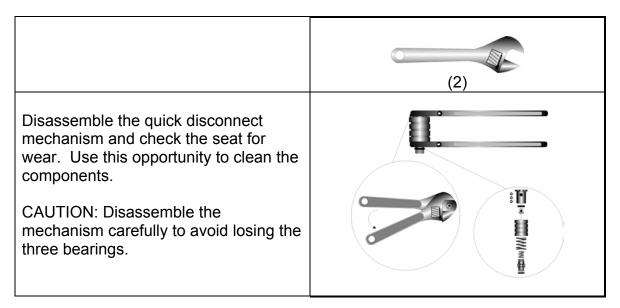


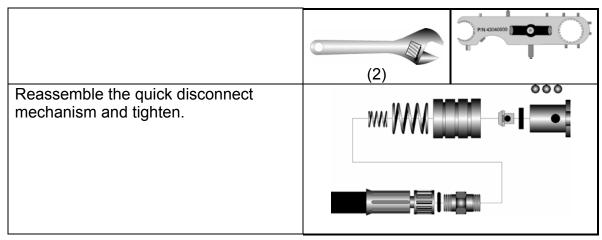
Disassemble the air barrel and all of its components.

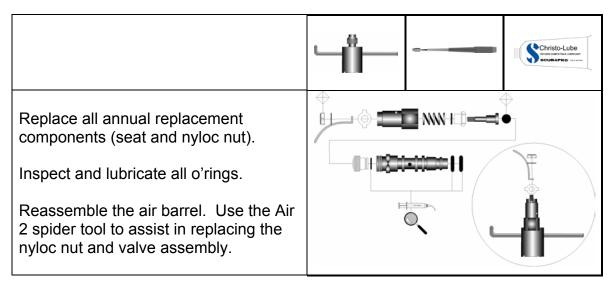
Use the Air 2 spider tool to apply pressure to the downstream valve components. This will facilitate removal of these parts.

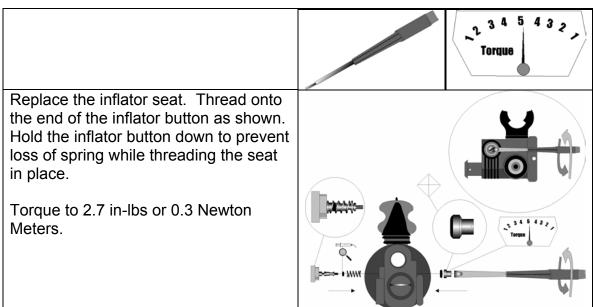




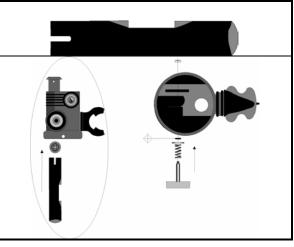






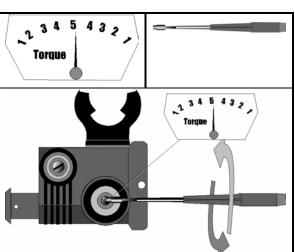


Use the Seat Slider tool to position the exhaust seat into the Air 2 body. Insert the exhaust button assembly as shown.



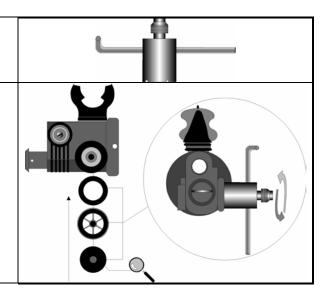
Use the 1/4" nut driver to tighten the nyloc nut on the exhaust button stem.

Torque to 2.7 in-lbs or 0.3 Newton Meters.



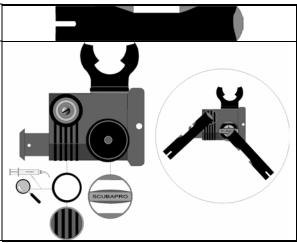
Assemble the exhaust valve and spider.

Thread into the Air 2 body and lightly tighten using the Air 2 spider tool as shown.



Inspect and lubricate the inflator mechanism cover o'ring.

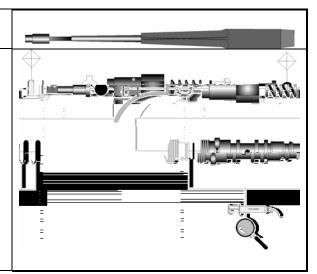
Insert the covers for the exhaust and the inflator mechanisms. Lightly tighten using the Seat Slider tool.



Replace the poppet seat. Inspect and lubricate o'rings as shown.

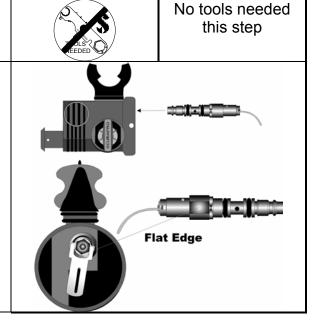
Assemble the poppet, orifice, lever and other components of the air barrel. Two threads should show on the seat carrier.

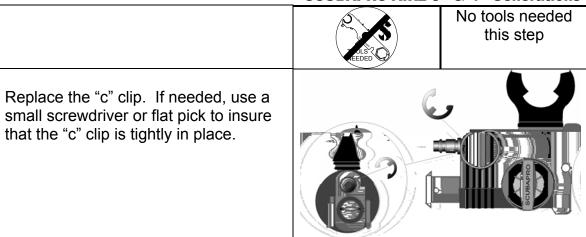
CAUTION: Protect the poppet seat to prevent engraving when assembling the air barrel.



Insert the air barrel assembly into the Air 2 body.

NOTE: The flat edge of the air barrel must rest against the flat internal edge of the Air 2 body as shown.





Inspect the diaphragm to insure there are no punctures or wear.

Reassemble the diaphragm, friction washer and front cover. Tighten using the Seat Slider tool.

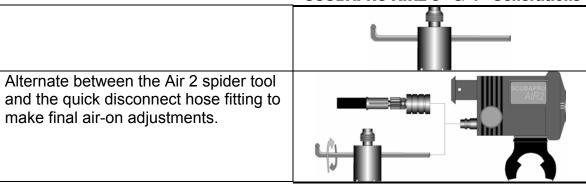
Adjustments are made by inserting the Air 2 spider tool into the quick disconnect side of the air barrel.

Turning clockwise reduces the distance between the orifice and the poppet seat and increases the cracking effort.

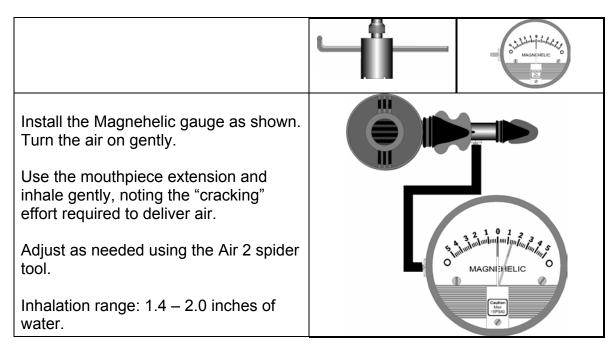
Turning counter-clockwise increases the distance and reduces the cracking effort.

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Important note: The following information is not designed to be a complete training guide for servicing the listed SCUBAPRO regulators. All SCUBAPRO



	D.S. C.	No tools needed this step
Attach quick disconnect as shown in preparation for testing.		SCUBAPRO AIR2



No tools needed this step Attach quick disconnect and large bore inflator hose. If the BC uses a "pull dump" attached to the inflator hose the mechanism pin must be attached prior to securing the Air 2 to the large bore hose. CAUTION: Be certain that the large bore inflation hose is securely attached to prevent disconnection while in use.