TOOLS NEEDED FOR REPAIR OF MK 14

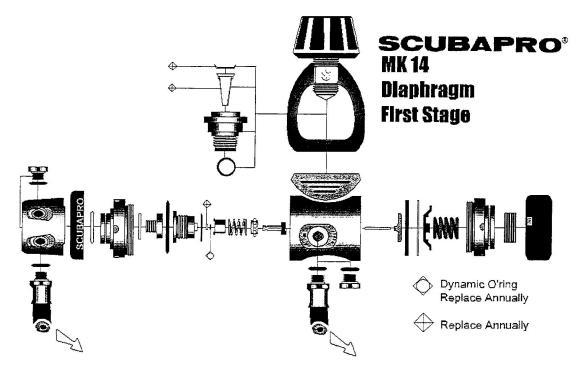


Quantity	Part Number	Description	
2	43.300.114	Field handle	
1 set	43.300.017	Brass o'ring picks	
1 tube	41.047.000	Christo-Lube	Christo-Lube
1	47.010.000	Counter Mat	SCUBAPRO
1	41.496.101	Lubricant syringe	
1	43.040.000	Universal Tool	
1	43.191.103	1" Yoke Nut Socket	
1	43.300.112	Pneumatic Adjusting tool	
1	40.978.000	Blow Gun/Air Nozzle	
1	10.300.229	MK 14 Balance Chamber Tool	
1		7/32" Hex wrench	
1		6mm Hex Wrench	
1		Adjustable Wrench	
1		Socket Wrench with 3/8" drive and 3" extension	300
1		Torque Wrench with 3/8" drive - 600 in-lb range	2 3 4 5 4 3 2 7 Terque
1		Torque Wrench with 3/8" drive - 100 in-lb range	2 3 4 5 4 3 2 7 Torque
1		7/32" socket wrench - 3/8" drive	7/32*
1		Soft-bristled toothbrush	

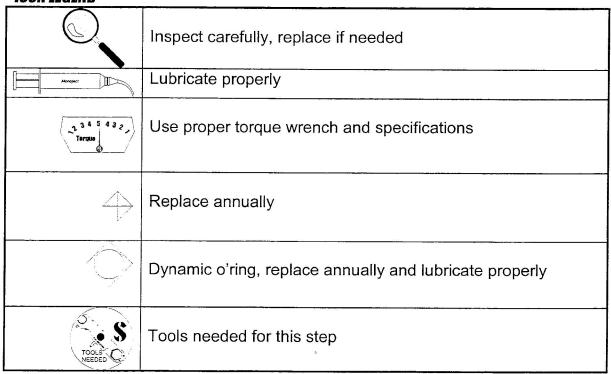
31998 SCUBAPRO ∴ritten by Tom Ingram



MK 14 Repair and Maintenance Guide



ICON LEGEND



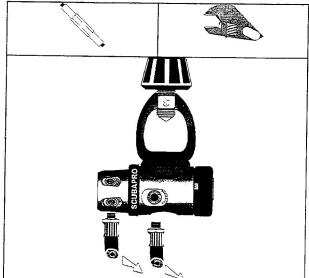
Important note: The following information is not designed to be a complete training guide for servicing of the SCUBAPRO MK 14 regulator. All SCUBAPRO technicians are required to attend an annual service training program to insure safe handling and servicing of SCUBAPRO products. All SCUBAPRO technicians must be employed by an authorized SCUBAPRO facility.



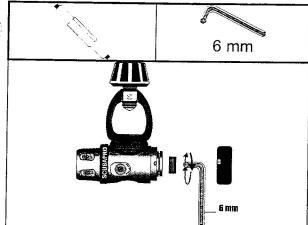
MK 14 Maintenance and Assembly Guide



Remove the hoses from the first stage by using an adjustable wrench or 5/8" open-end wrench



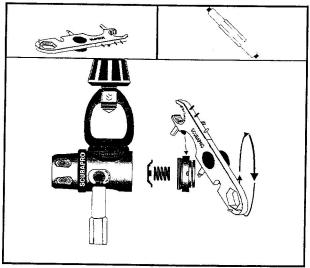




Remove the plastic boot. Using a 6 mm hex wrench, thread out the intermediate pressure adjustment screw.



Use the Universal Tool to remove the end cap from the main regulator body. The spring and spring pad can now be removed.

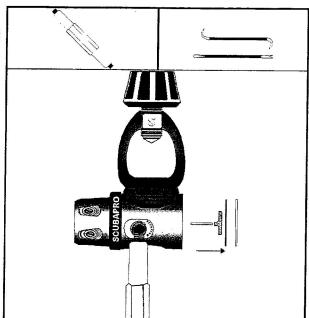






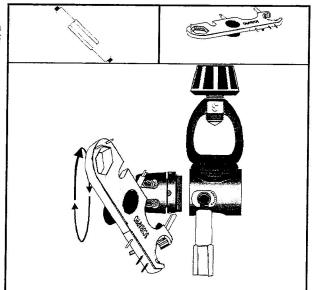
Remove the friction washer and diaphragm carefully.

Remove the HP module button and pin. Remove the pin carefully to ensure it is not lost.



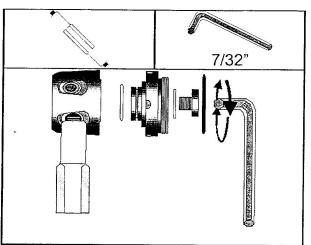


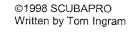
Remove the swivel retainer cap by first removing the rubber boot, then use the universal tool to loosen the cap. Hold the regulator body with the field handle or a soft-jawed vice.



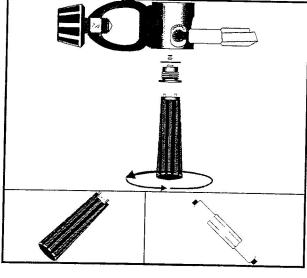


Disassemble the swivel cap with a 7/32" hex wrench. Hold the swivel steady with a field handle. Remove the two o'rings and the teflon spacing washer.





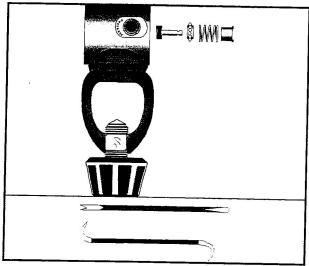


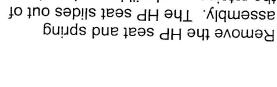




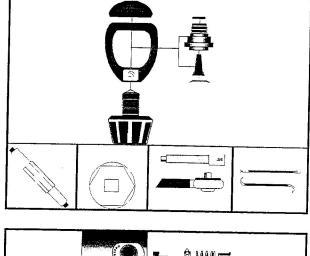
Using the MK 14 Balance Chamber by Tool, remove the balance chamber by threading out the unit in a counter clockwise direction. Turn the unit as shown to prevent loss of the HP seat and spring assembly.

Remove the two o'rings and washer from the balance chamber.





the retainer, and will be replaced.



Remove the Yoke Nut, Yoke and Saddle from the regulator body.

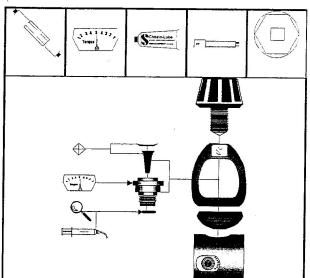
Using a brass o'ring pick, remove the star retainer and filter.





Replace the conical filter. Inspect and lubricate the static yoke nut o'ring. Replace the o'ring if needed.

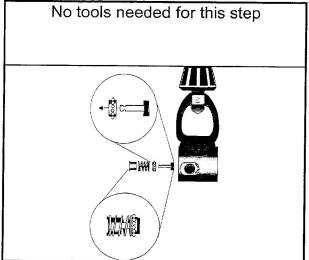
Torque the yoke nut to 275-325 in-lbs or 30-40 newton-meters





Inspect and re-assemble the HP seat into the retainer. The retainer, seat, spring and spring rest should be assembled as a unit prior to reinserting into the regulator body.

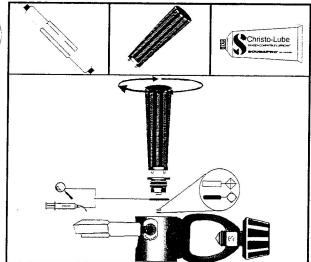
The HP seat may be replaced as needed.





Inspect, lubricate and re-install the larger balance chamber o'ring. Replace if needed.

Replace the dynamic o'ring and teflon washer. Tightly thread in the balance chamber using the MK 14 Balance Chamber Tool.

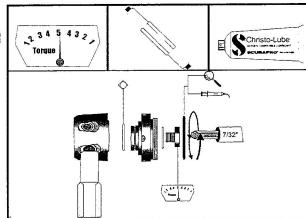






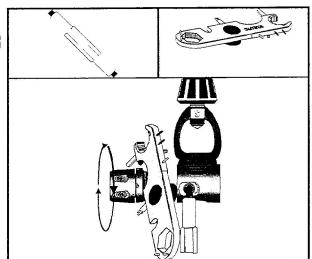
Hold the swivel cap firmly with the field handle. Replace and lubricate the dynamic swivel o'ring. Inspect and reinsert the teflon spacer washer.

Thread in the swivel retaining screw and tighten using the torque wrench to 35-45 in-lbs or 4-5 newton-meters.





Thread in the swivel cap assembly. Tighten with the universal tool while holding the regulator body firmly with the field handle.

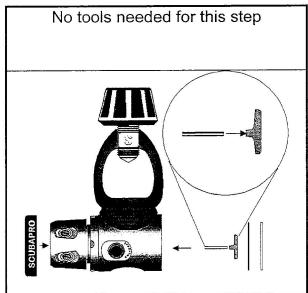




Insert the HP module button. Inspect and insert the diaphragm carefully, being certain that it is pushed beyond the threaded portion of the regulator body. Replace the diaphragm if needed.

Place the friction washer on top of the diaphragm.

Replace the rubber boot over the swivel cap.



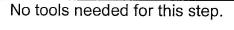


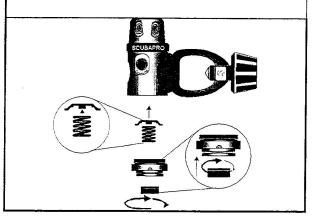


Thread the intermediate pressure adjustment cap into the end cap. Leave approximately 3 - 4 threads showing.

Replace the spring and spring pad on top of the diaphragm as shown.

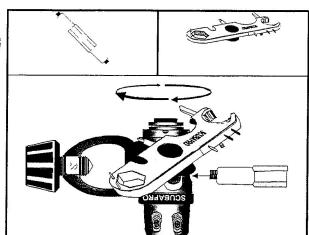
Thread the end cap into the body of the regulator. Hand tighten.







Use the field handle to hold the regulator body, and tighten the end cap with the universal tool.

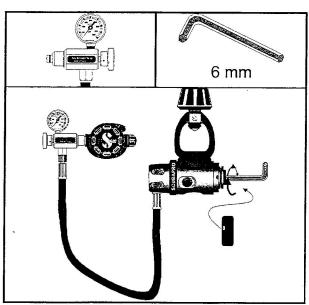




Adjust the intermediate pressure using the pneumatic adjustment tool and 6mm hex wrench. Increase intermediate pressure by turning clockwise.

Intermediate pressure should be between 125 and 145 psi.

Replace the rubber boot following final adjustment.

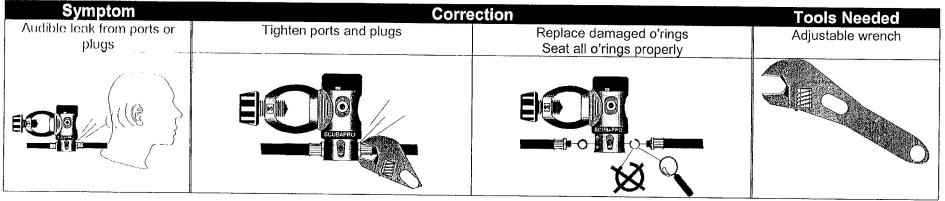


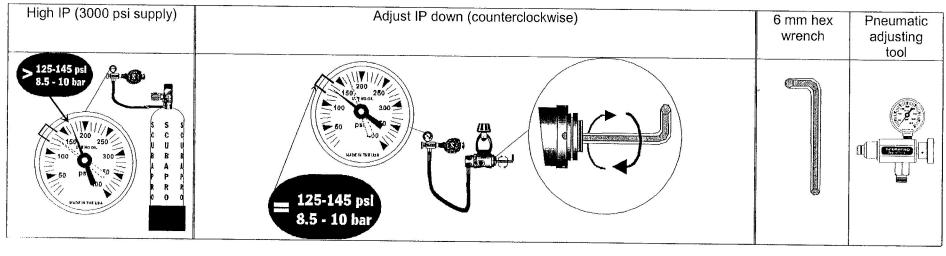


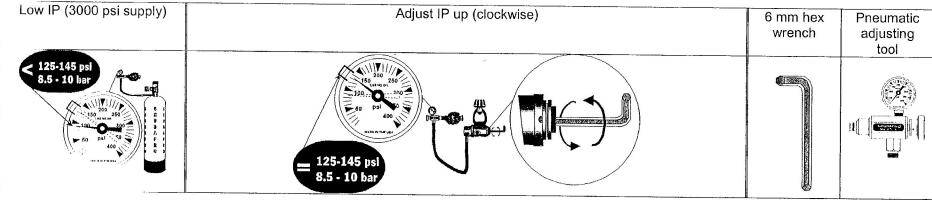


SCUBAP. MK 14 First Stage

Trouble Shooting Guide









SCUBAF IK 14 First Stage Trouble Shooting Guide

Symptom	Correction		Tools Needed	
Audible leak from end cap	Inspect diaphragm and retaining washer. Replace if needed.	Tighten end cap while holding unit with field handle		
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