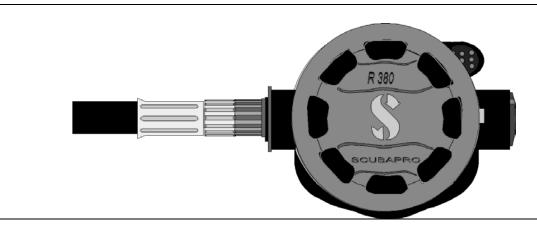
SCUBAPRO Repair Guide R390 - R380 Second Stages



USE THIS GUIDE AS A REFERENCE WHEN SERVICING THE R390 AND R380 SECOND STAGES

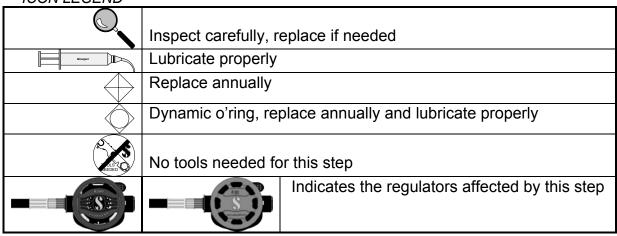


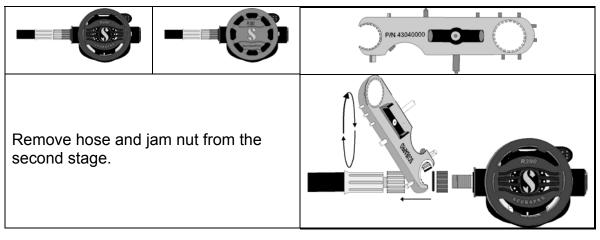
TOOLS NEEDED FOR REPAIR OF R390-R380

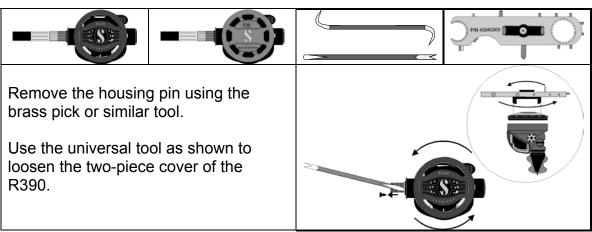


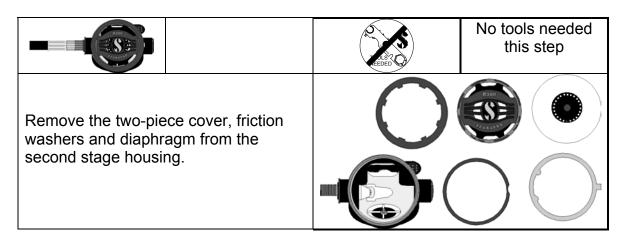
1		NEEDED	
Quantity	Part Number	Description	
1 set	10.102.100	Brass o'ring picks	
	(Peter Built)		/
	,		
1 tube	41.047.000	Christo-Lube	Christo-Lube
			egusapro" Pari az so
1	47.010.000	Counter Mat	
			SCUBAPRO
1	41.496.101	Lubricant syringe	Monoject
1	43.040.000	Universal Tool	PN 400000
			7
1	11.153.500	Ball-end Allen Wrench	
	(Peter Built)		
1	43.300.225	VIVA Flow Vane Removal Tool	
1		13mm low torque wrench	
1	20.500.200	Pneumatic Adjusting tool	
	(Peter Built)	, ,	
	,		
1	18.300.500	Blow Gun/Air Nozzle	
1		1/4" Nut Driver	-
		1	

ICON LEGEND











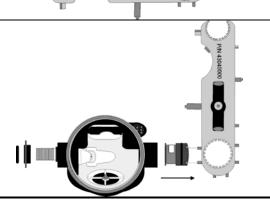






Remove the washer from the air inlet.

Using the universal tool remove the housing plug by turning and then pushing from the inside of the housing.

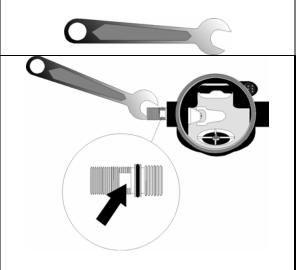






Use a 13mm or ½" low torque (thin) wrench to loosen and remove the valve body. The wrench should rest on the "flat" sides of the valve body, which are designed to permit gripping by a wrench.

Caution: Do not score the threads on the valve body when applying the wrench. Scoring the threads will result in damage and require replacement of the valve body.

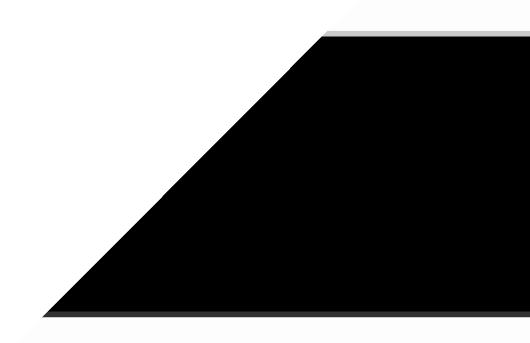














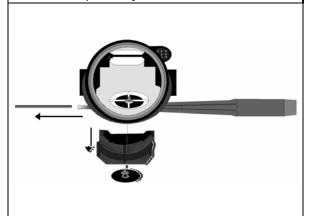


This Step Is Only Performed As Needed

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.



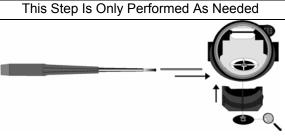




If the exhaust valve is removed, carefully inspect and replace if necessary.

Replace the exhaust tee center section and use the ball-end allen wrench to replace the exhaust tee pin.









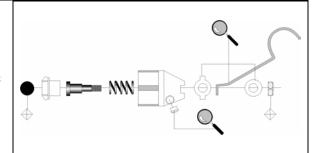


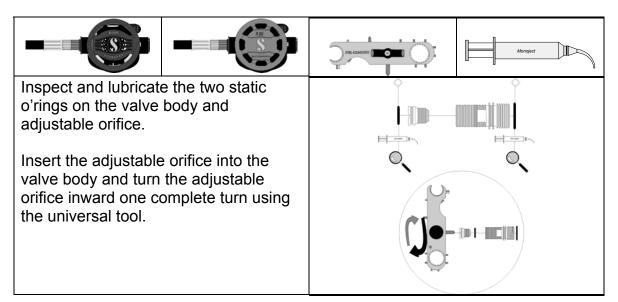
Inspect all washers and the lever.

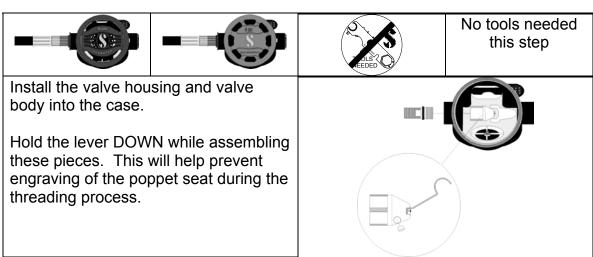
Replace the poppet seat and nyloc nut.

Reassemble the valve housing. The nyloc nut should be adjusted as follows:

- a. Maximum of one poppet carrier thread showing through if used for a primary regulator.
- b. Maximum of two poppet carrier threads showing through if used for an octopus regulator
- c. Maximum of three poppet carrier threads showing through under all circumstances.





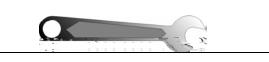


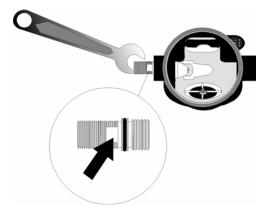




Use a 13mm or ½" low torque (thin) wrench to tighten the valve body. The wrench should rest on the "flat" sides of the valve body, which are designed to permit gripping by a wrench. Hold the lever arm down as you tighten the valve body to prevent engraving of the poppet seat.

Caution: Do not score the threads on the valve body when applying the wrench. Scoring the threads will result in damage and require replacement of the valve body.



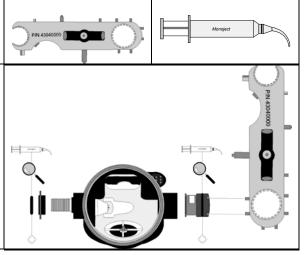


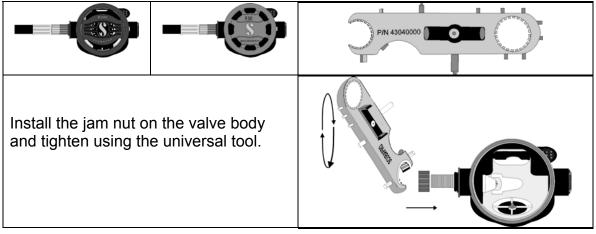


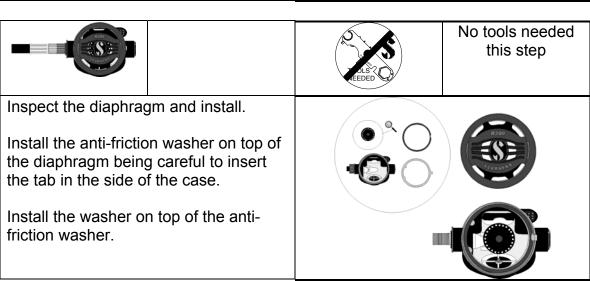


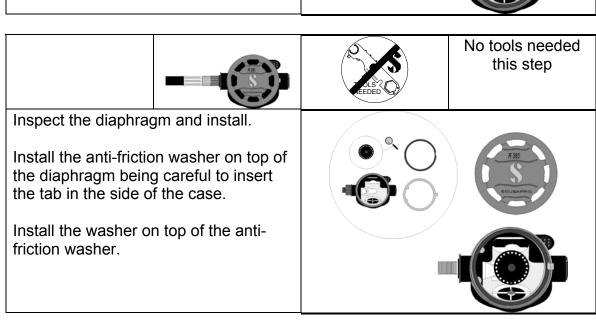
Inspect and lubricate the valve body o'ring. Reinstall the washer and o'ring on the outside of the valve body.

Inspect and lubricate the plug o'ring. Reinstall the plug in the regulator case using the universal tool. Turn the plug 1/4 turn until it locks in place.

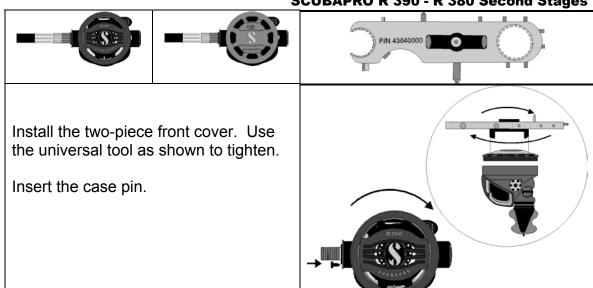


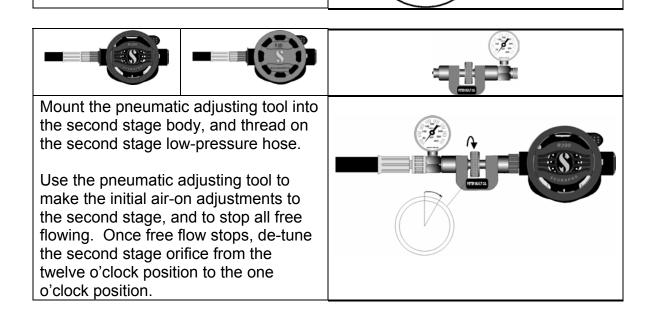


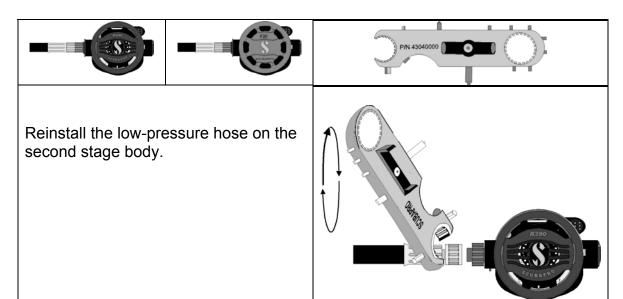




©2003 SCUBAPRO Important note: The following information is not designed to be a complete training guide for servicing the listed SCUBAPRO regulators. All SCUBAPRO technicians are required to attend an annual service training program to insure safe handling and servicing of SCUBAPRO products. All SCUBAPRO technicians must be employed by an authorized SCUBAPRO facility.













Check the cracking effort of the regulator.

R390 Inhalation effort range:

Primary Regulators: 1.2 to 1.8 inches

of water

Octopus/Alternate Air Source: 1.4 to

1.8 inches of water

R380 Inhalation effort range:

Primary Regulators: 1.2 to 1.8 inches

of water

Octopus/Alternate Air Source: 1.4 to

1.8 inches of water

