

SCUBAPRO

Technical Service Schematic

POLAR SECOND STAGE #11-372-000
POLAR OCTOPUS #11-38X-000

Date 9/94 Revision A
 Annual Repair Parts Kit #11-370-041

Parts

#	QTY	PART #	DESCRIPTION	COST
1	1	11-190-106	PIN	
2	1	11-300-024	COVER, EXHAUST	
3	1	11-250-103	VALVE, EXHAUST	
4	1	11-300-021	CASE, MOLDED	
5	3	01-050-132	O-RING	
6	1	11-250-106	NUT, JAM	
*	7	11-195-110	ORIFICE, PLASTIC	
8	1	01-075-131	PIN, COVER RETAINING	
9	1	11-300-009	DIAPHRAGM ASSY	
10	1	11-109-123	DISC, DIAPHRAGM	
11	1	11-300-031	DIAPHRAGM	
12	1	11-190-117	SPACER RING	
13	1	11-370-026	COVER, FRONT, PRINTED	
▲	14	01-088-101	MOUTHPIECE STRAP, BLACK	
		01-088-107	MOUTHPIECE STRAP, CRYSTAL	
▲	15	01-040-010	MOUTHPIECE, BLACK	
		01-040-006	MOUTHPIECE, CRYSTAL	
*	16	01-073-250	RETAINING RING, FLOW VANE	
17	1	11-300-023	FLOW VANE	
18	1	01-050-126	O-RING, FLOW VANE, RED	
19	1	11-200-014	DURO POPPET ASSY	
20	1	11-108-101	SEAT	
21	1	11-250-105	POPPET, DURO	
22	1	01-020-109	SPRING	
23	1	11-109-104	PAD, SPRING	
24	1	11-360-022	HOUSING, BRASS	
25	3	01-050-160	O-RING	
*	26	11-360-021	AIR BARREL, PLASTIC	
27	1	11-109-105	LEVER	
*	28	11-370-022	PAD, ADJUSTMENT, MALE	
29	1	01-121-218	NUT	
*	30	11-370-023	ADJUSTMENT NUT, FEMALE	
31	1	11-370-025	HALF ADJUSTMENT NUT, FEMALE	
32	1	11-370-024	KNOB, ADJUSTMENT	
33	1	11-195-104	CAM LOBE	
34	1	01-101-102	SCREW	
35	1	01-006-762	DECAL, ADJUSTMENT KNOB	
36	1	01-020-110	SPRING, PURGE	
37	1	11-300-025	PURGE BUTTON	
38	1	01-006-760	DECAL, PURGE, BLUE	
	1	01-006-761	DECAL, PURGE, RED	
	1	01-006-764	DECAL, PURGE, YELLOW	
39	1	01-314-032	HOSE ASSEMBLY, 32, POLAR OR R190	

Technical Information:

The Annual Repair Parts Kit may contain o-rings used in the hose assembly. Refer to the separate hose schematic for identification.

Lubricate all threads with silicone grease to reduce long term corrosion and provide easier disassembly at the next service interval.

Special Engineering Notes:

Prior to installing the poppet, the orifice item #7 should be backed away from the poppet to avoid damage to the poppet seat.

The flow vane retaining ring Item #16 has been changed from stainless to copper alloy. The stainless clips should be inspected annually for rust and replaced with the copper clip if rusted.

The two posts on the air barrel align and fit into the cavities inside the plastic regulator case. Be sure to lift up on the air barrel before trying to remove it from the case.

The adjustment pad has a slotted cavity to retain the nut for the Dive/Pre-Dive cam. Place the nut into the cavity before placing into the Dive/Pre-Dive adjustment knob. Align the nut in the adjusting pad to the hole in the adjustment knob and place it into the case. The cam lobe is then placed into the recess in the adjustment knob and retained by the screw, which tightens to the nut in the adjustment pad.

When adjusting spring tension with item 30, turning the slotted screw clockwise (when it is facing you) will REDUCE spring tension. Turn it counterclockwise to INCREASE tension.

Legend (prices subject to change without notice)

- Not Shown ◇ Dynamic O'Ring Replace Annually
- Optional Item ◊ Annual Replacement
- ▲ Limited Warranty [] Torque In Inch Pounds
- Older Configuration * See Note

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