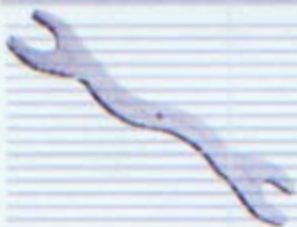




→ RG-1008 SERVICE MANUAL

Scuba Max

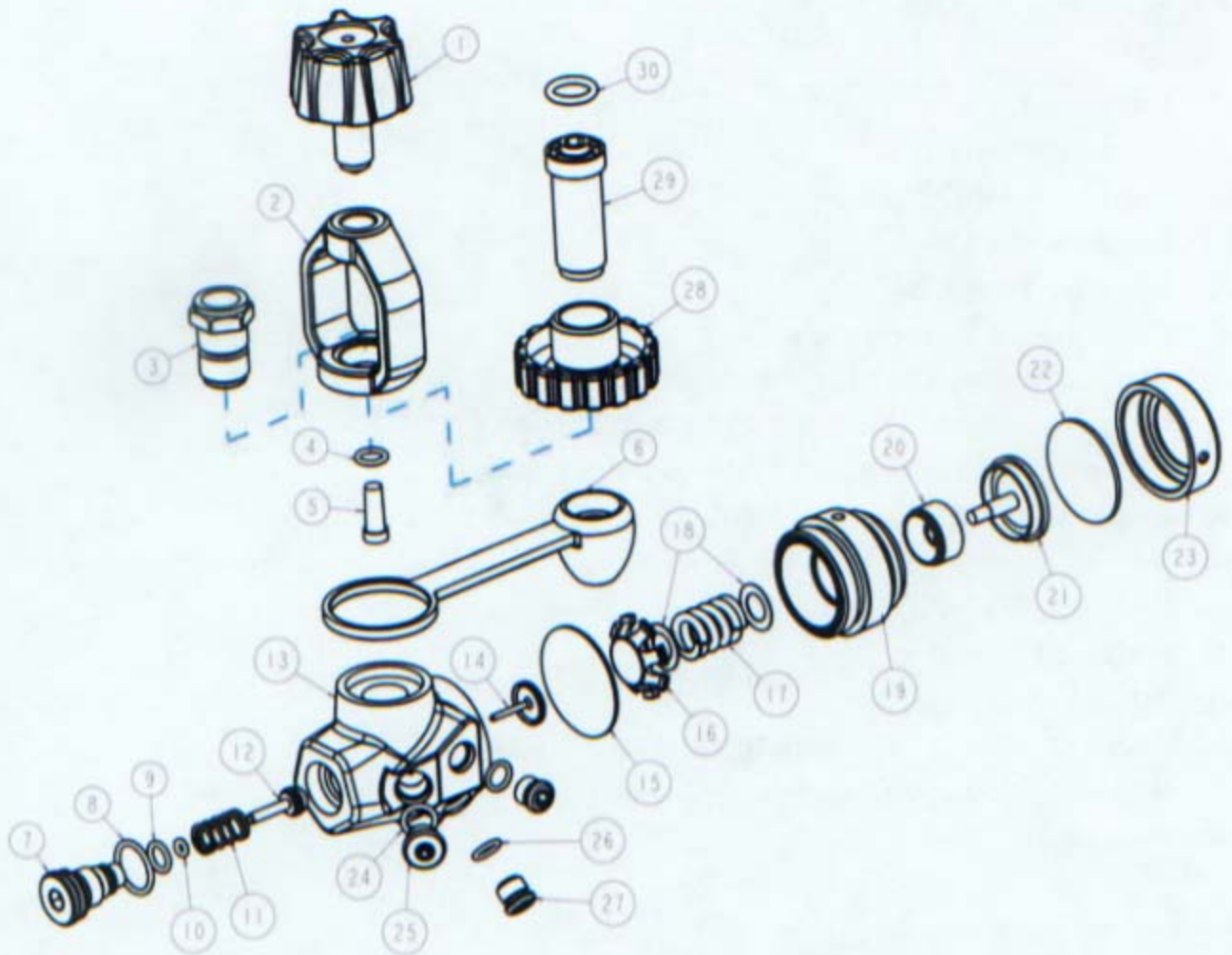
→ Regulator Service Manual →



Professional SCUBA Diving Equipment

SCUBA MAX

→ Tel: (909) 869-7977 Fax: (909) 595-8600



NO	ITEM NO	DESCRIPTION	QTY	NO	ITEM NO	DESCRIPTION	QTY
1	B-01-0080-01	YOKE KNOB	1	16	A-01-002-04	SPRING SEAT	1
2	F-01-002-01	YOKE	1	17	D-01-008-02	MAIN SPRING	1
3	C-01-008-01	YOKE RETAINER	1	18	P-01-005-02	PLASTIC WASHER	2
4	O-AS568-011-02	O-RING	1	19	C-01-008-04	DIAPHRAGM CLAMP	1
5	F-01-005-02	FILTER	1	20	C-01-008-05	ADJUST SCREW	1
6	A-01-005-01	DUST CAP	1	21	C-01-008-06	TRANS PISTON	1
7	C-01-008-02	BALANCE PLUG	1	22	A-01-008-01	SILICON DISK	1
8	O-AS568-016-01	O-RING	1	23	C-01-008-07	ENV CAP	1
9	O-AS568-011-02	O-RING	1	24	O-AS568-904-01	O-RING	2
10	O-AS568-006-02	O-RING	1	25	C-01-005-10	HP PLUG	2
11	D-01-008-01	SPRING	1	26	O-AS568-903-01	O-RING	3
12	B-01-002-02	HP SEAT	1	27	C-01-005-11	LP PLUG	3
13	F-01-008-01	MAIN HOUSING	1	28	B-01-002-03	DIN WHEEL - BK	1
14	C-01-008-03	LIFTER	1	29	C-01-008-08	DIN CONNECTOR	1
15	P-01-002-01	DIAPHRAGM	1	30	O-AS568-112-02	O-RING	1

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Before You Begin

Read these instructions completely before you begin servicing the regulator or filling whip.

These instructions are intended for people who have been **AUTHORIZED** by **SCUBAMAX** to repair **SCUBAMAX** Scuba equipment. If you are not so authorized - **STOP**.

1.0 INTRODUCTION

- 1.0.1 The procedures in this manual apply to the **SCUBAMAX RG-1008 1ST STAGE** Regulator , Refer to the exploded views as you read the service section of the manual. The Item Numbers referred to in the service section are those seen in the corresponding exploded view.



! WARNING !

NEVER reuse the diaphragm in the first stage. A used diaphragm will not clamp securely as required. A used diaphragm may come loose during

use, causing a severe regulator malfunction. This is true with all diaphragm first stages. Failure to heed this warning may result in serious injury or death.

NEVER tighten the hose fitting to the first stage with more than 40 in. lbs. (4.5 Nm) of torque. The inlet hose fitting will be weakened by over tightening. Failure to heed this warning may result in serious injury or death.

NOTE:

All **SCUBAMAX** Scuba Regulators have service kits available which contain the parts which must be changed at every annual service no matter what their condition. The standard annual service kit part numbers are shown in the parts list. All other parts not contained in these kits must be inspected by the technician and changed if necessary. Parts will be handled under warranty, only if they have failed due to problems with material or workmanship.



! WARNING !

SCUBAMAX Scuba Regulators are manufactured using materials suitable for use with oxygen enriched gases (i.e. Nitrox, etc.) providing the oxygen content does not exceed 40%. Equipment intended for enriched air (Nitrox) use, must not be used with regular compressed breathing air or other gases. Regulators intended for enriched air use, can be serviced only by technicians trained by one of the major oxygen enriched air training agencies. Failure to heed this warning may result in serious injury or death.

1.0.2 This manual gives breakdowns of regulator parts, equipment specifications, servicing instructions, troubleshooting recommendations, and guidelines for proper care of **SCUBAMAX** regulators. This manual is intended for use only by persons specially trained and authorized to service **SCUBAMAX** Scuba equipment.

1.0.3 Anyone attempting to service or repair **SCUBAMAX** Scuba regulators must have a thorough understanding of the principles of operation of scuba regulators and valves, as well as the appropriate mechanical ability. The technician must be properly trained in the safe use of compressed air and the various tools and cleaning solutions involved in

the procedures outlined in this manual.

1.0.4 The best source for current part numbers for any of the parts listed in this manual is your current parts and price list from **SCUBAMAX**.

1.0.5 If you have any questions, or need more information, contact your **SCUBAMAX** Scuba Sales Representative or **SCUBAMAX** Customer Service. You can e-mail you technical questions to **SCUBAMAX'S** mail box.

2.0 SPECIFICATIONS

SCUBAMAX RG-1008

AIR FLOW33 cu.ft.(935 liters)/min.@ 1 atmosphere
INHALATION RESISTANCE0.9" -2.0" (2.3 - 5.08 cm) w.c.@ 1 atmosphere
(adjustable)
EXHALATION RESISTANCE0.6" (1.52 cm) w.c.max.@ 1 atm.
RECOMMENDED LUBRICANTLTl Christo-Lube 111


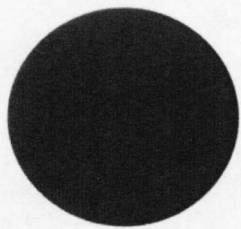





A. **SCUBAMAX** FIRST STAGE REGULATOR

TYPE Balanced Diaphragm with or no - Dry
Environmental Seal with Hydrostatic
Transmitter
WEIGHT 2.1 lb.(.95 kg)
INTERSTAGE PRESSURE130-145 psi (9-10 bar)(135 psi / 9.3
bar,nominal)
LOW PRESSURE PORTS4 (3/8"-24 UNF)
HIGH PRESSURE PORTS2 (7/16"-20 UNF)
MATERIALSBody ----- CDA-360 Brass
O-rings ---- Buna-N


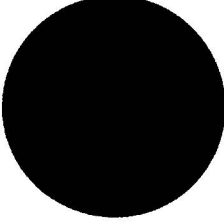
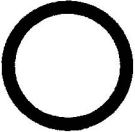




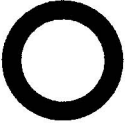
2.1 Torque Specifications:

Description	Item #	Torque
DIAPHRAGM CLAMP	19	25-30 ft/lb(34-40 N.M)
DIN BOLT	29	23-25 ft/lb (31.19-33.90 N.M)
YOKE RETAINER	3	23-25 ft/lb (31.19-33.90 N.M)
HP BALANCE PLUG	7	2-3 ft/lb (3-4 Nm)
PORT PLUGS	25,27	35-40 In/lbs (3.96-4.52 N.M)
HOSE INLET END		2-3 ft/lb (3-4 Nm)
Hose outlet end		2-3 ft/lb (3-4 Nm)
2nd Stage Nut		1-2 ft/lb (2-3 Nm)

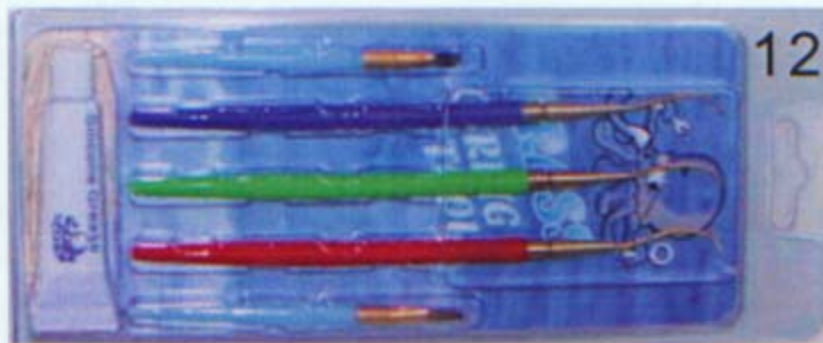
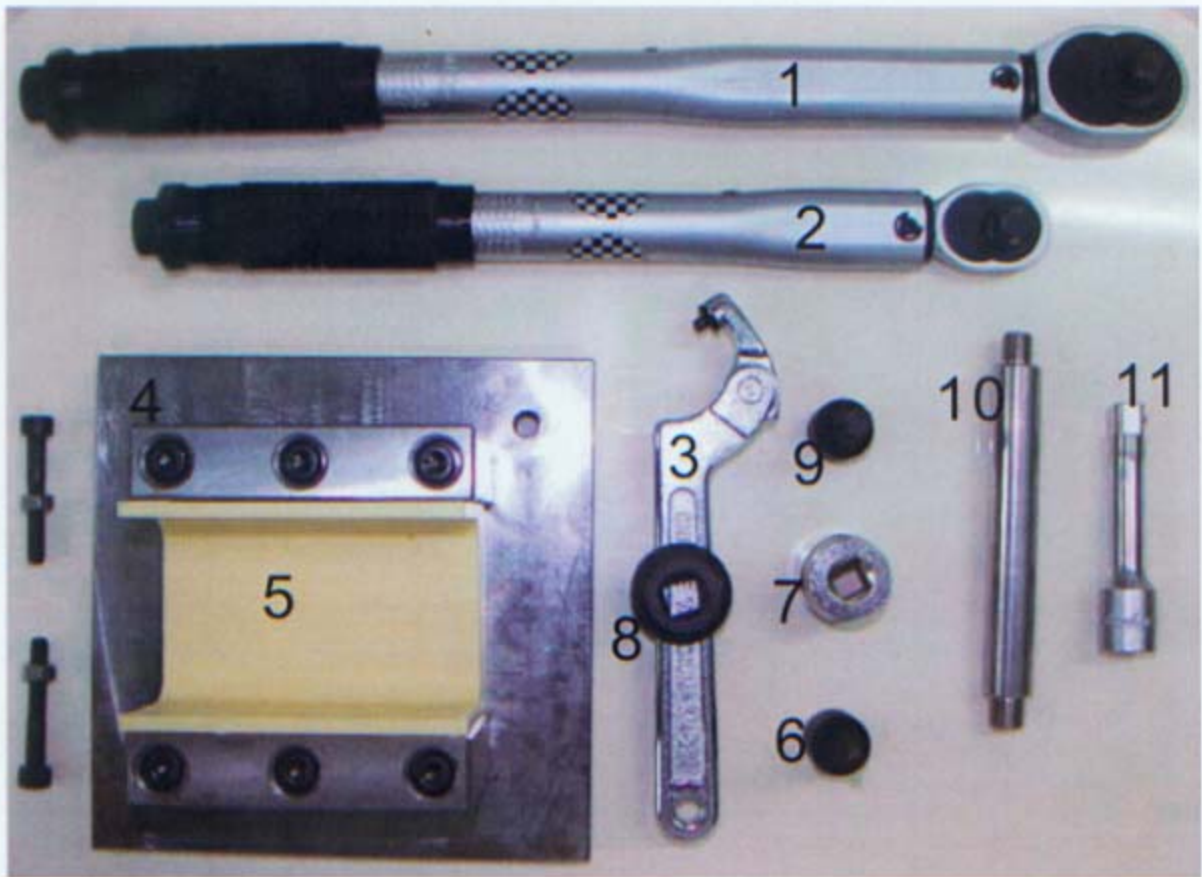
3.0 SERVICE KIT LIST

RG1008 YOKE SERVICE KIT				
DRAWING	NO	PART NO	DESCRIPTION	Q'TY
	4,9	O-AS568-011-02	O-RING 011 N90	1
	15	P-01-002-01	DIAPHRAGM	1
	8	O-AS568-016-01	O-RING 016 N70	1
	12	B-01-002-02	HP SEAT	1
	10	O-AS568-006-02	O-RING 006 N90	1
	24	O-AS568-904-01	O-RING 904 N90	2
	26	O-AS568-903-01	O-RING 903 N70	3

RG1008 DIN SERVICE KIT

DRAWING	NO	PART NO	DESCRIPTION	Q'TY
	4,9	O-AS568-011-02	O-RING 011 N90	1
	15	P-01-002-01	DIAPHRAGM	1
	8	O-AS568-016-01	O-RING 016 N70	1
	12	B-01-002-02	HP SEAT	1
	10	O-AS568-006-02	O-RING 006 N90	1
	24	O-AS568-904-01	O-RING 904 N90	2
	26	O-AS568-903-01	O-RING 903 N70	3
	30	O-AS568-112-02	O-RING 112 N90	1

3.1 SERVICE TOOL LIST



1	TORQUE WRENCH 19-110 N.M	2	TORQUE WRENCH 5-25 N.M
3	4MM PIN SPANNER	4	FIXTURE HOLDLE
5	FIXTURE BLOCK	6	4MM HEX BIT SOCKET
7	19MM HEX SOCKET	8	SPANNER HOLD SOCKET
9	1/4" HEX BIT SOCKET	10	STAINLESS HANDLE BAR
11	TORSION BAR	12	O-RING TOOL SET

4.0 SERVICE PROCEDURES FOR THE SCUBAMAX RG-1008

4.0.1

Before you begin disassembly of the regulator, test the first and second stages for output pressures and leakage. Pre-testing in this way will help the technician to pinpoint any specific problems requiring repair.

4.0.2

The work area must be clean and well lit, with clean compressed air available to blow sand and dirt from parts.

4.1 TOOLS AND PARTS LIST REQUIRED FOR SCUBAMAX SERVICING

- Fixture block (supply from **SCUBAMAX**) OR Soft-jawed bench vise (bench vise with rubber, plastic, aluminum or plastic jaw inserts)
- **PIN SPANNER AND HOLD SOCKET FOR DIAPHRAGM CLAMP(19)**
- **19MM HEX SOCKET FOR YOKE RETAINER(3)**
- **4MM HEX BIT SOCKET FOR PORT PLUG(25,27)**
- **1/4" HEX BIT SOCKET FOR HP BALANCE PLUG(7), ADJUST SCREW(20) , DIN BOLT(29)**
- **5~25N.M - 3/8" TORQUE WRENCH ADJUSTABLE**
- **19~110N.M - 3/8" TORQUE WRENCH ADJUSTABLE**
- **STAINLESS HANDLE BAR**
- **1st STAGE ANNUAL SERVICE KIT**
- **CLEAN SHOP RAGS**

- **LTI Christo-Lube 111[®], or Dow-Corning 111[®] Silicone Grease**
- **Intermediate Pressure Testing Gauge**