SCUBAPRO

Technical Service Schematic

Parts

Pai	rts						CRI	PTION				COS	<u> </u>	- 1	
#	QTY		RT#				SUNI	110.						- 1	
7	3	01-0		BALL	<u>L, Q</u>	<u>1.D.</u>									
2	1	21-0	09-113	BOD									<u>50</u>	•	١
3	1	21-0	09-112	SEA	AL, C	T, Q.D.						├		\	۱
4	1	21-0	09-114	POP	BINC	G, POP	PET					┼		t	١
5	1	01-0	20-136	SI F	FEV	E, Q.D						┼─		1	١
6	1	21-0	009-111	SPE	RIN	G. SLE	EVE					+		1	
7	1	01-	020-138 050-351	O-F	RINC	ā, HOS	E, PL	JRPLE						1	
8	1	01-	308-028			1001	/00"\			SSV		1]	
9	1-1	101	380-028	НО	OSE	& QUI	CK D	SCON	NECT /	1301		+]	
10		- 31	-080-100	BO	Yar	BLAC	:K					1:	1.40		
11		21	-080-119	DI	API	IRAGN	1, BL	ACK						4	
1:		11	-109-123	DIS	ISK,	DIAPH	IRAG	M				\perp		_	
1		21	-080-005	DI	IAP	HRAGN	A ASS	AGM						4	
	5 1	21	-080-104	C	OVE	R, DIA	DIAB	HRAG	М			1		-	
-	6 1	2	1-080-105		ETA	LOCK	ING:	#5-40						-{	
-	7 1	0	1-022-101		WI,	HER	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							\dashv	
-	8	0	1-060-107		EVE	ER .						-+-	ند ز	- 6	
ŀ	19	1 2	1-009-12		NCE	RT, H	OUSI	NG					<u>ٽ ر</u>	긕	
1		1 2	1-080-12	0 1	HOL	ISING						-+		\dashv	l
		$\frac{1}{1+\frac{2}{3}}$	1-080-12 1-020-16	A 6	SPR	ING. D	EMA	ND VA	LVE			-+			
		1 0	11-080-11		STE	M, DEI	MANI) VAL	<u>/E</u>					30	
- 1	23	1 -	11-080-11 11-108-10	14 6	SEA	T RUE	BBER	l					<u>.</u>		ĺ
	24	1	21-080-00		SEA	T & S	TEM /	ASSY							1
	25	1-1-	21-080-00	19	ORI	IFICE									1
	26	++	01-050-1	32	O-F	RING, E	LUE					\neg			1
	27	1	21-080-1	- 1	TUI	BE, INL	ET		DILLE]
	28		01-050-1		O-F	RING, I	NLET	TUBE	, BLUE	CK					_
	30	1	01-088-1	01	ST	RAP, M	MOUT	HPIEC	E, BLA	STAL					
_	130	+	01-088-1	07	ST	RAP, N	VOU	HPIEC	E, CRY						_
•	31	1	01-040-0	10	MC	OUTHP	IECE	, DLA							
_	1	1	01-040-0		MC	OUTHP	TECE	CRY	STAL						_
		1	01-040-0	006	MC	JP, RE	TAIN	ING	0111=						_
	32	1	21-080-		1 5	JTTON	INF	ATOF	3						_
	33	1	21-080-	003	+ ==		TEI A	TOR					<u> </u>		_
*	: 34	_1	21-080-	113	IN	IEL ATC	OR BL	JTTON	AND S	TEM A	SSY		╁		_
	35		21-080- 01-020-	140	101	DRING	INF	LATOR	l .				┼		_
	36		21-080-	108	B	LISHIN	G. IN	FLATO	R STE	<u>M</u>			┼-		_
	37	1	01-050		7	DING	RUS	HING.	GRAY				+-		-
	38	2	01-050		10	-RING	, INFI	LATOR	SEAL,	PURP	<u>LE</u>		+-		_
	39	1	01-030		C	LIP, IN	ILET	RETAI	NING				+-		_
	¥ 41	1	21-080		N	IUT, IN	FLAT	OR					+-		_
•	42	1	21-080		S	SEAL, F	PLUG						+		-
	43	1	21-080		F	LUG, I	NFL	TOR					+		_
	44	1	21-080	-002		BUTTO			<u>T</u>				+		-
	45	1	21-080		2 8	STEM,							+		
	46	1	01-020)-154					r BUTT	ON			ļ		_
	47	1	21-080)-111		GASKE	T, E	CHAUS	T						
	48	1	21-080			SPIDEF									_
	* 49	1	11-109			VALVE,							T		
	50	1	21-080			COVER									
	51	1	01-050						STEM,	BLUE					_
	52	1	01-060			VASHE]		_
	53	1	01-020		<u> </u>	SPRING	a, ST	EM SE	AL						_
	54	1	21-080			SEAL, E									_
	<u>55</u>	1	01-121			VUT, HE							\perp		
	•	1	21-082			NLET F		ECTO	₹	_			L		
	-	- '	01-060	-003	1	VASHE	H								_
	_	<u></u>	1										_		

AIR 2, SECOND GENERATION 21-080-000

Revison G Date 9/94 Annual Repair Parts Kit #21-080-041

Technical Information:

To prevent field complaints and leakage, the AIR 2 should be adjusted so that it will withstand 150 psi intermediate pressure from the first stage. If it leaks at lower pressures, the spring load of the poppet can be boosted by placing a washer #01-060-003 between the demand valve stem #23 and the spring #22. Refer to engineering bulletin #175 for more information.

Other reference engineering bulletins: see #180.

Special Engineering Notes:

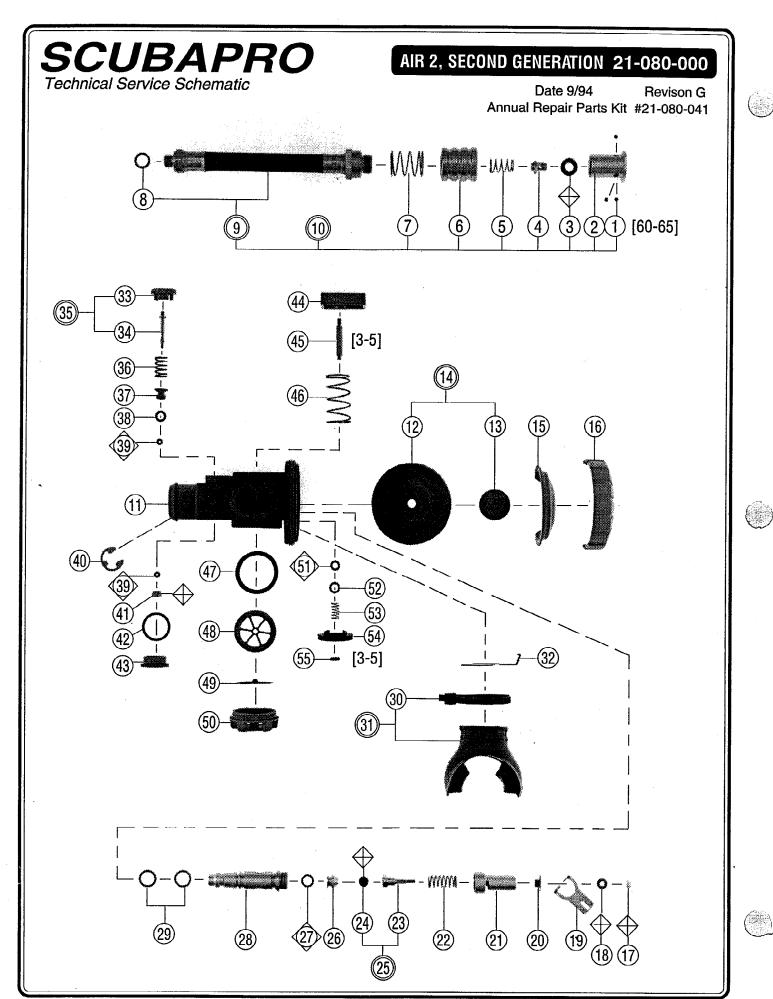
Item #49 note: After installation, the barb of the valve should be clipped off so only 1/8" remains above the floor of the spider. The extra length of barb is to facilitate assembly, and may interfere with the exhaust seal if left in place.

Item #34 note: This retaining clip is bowed to apply tension to the inlet tube when installed. The clip is installed so the outer curve of the clip faces away from the regulator body.

Item #41 note: The nut is installed so the side with the recess side faces the o-ring.

Legend (prices subject to change without notice)

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



SCUBAPRO

AIR 2, THIRD GENERATION 21-08X-000

Technical Service Schematic

Parts

_	1113			telou
#	QTY	PART#	DESCRIPTION	COST
1	3	01-085-105	BALL, Q.D.	
2	1	21-009-113	BODY, Q.D.	
3	1	21-009-112	SEAL, Q.D.	1.90
4	1	21-009-114	POPPET, Q.D.	
5	1	01-020-136	SPRING, POPPET	
6	1	21-009-111	SLEEVE, Q.D.	
7	1	01-020-138	SPRING, SLEEVE	
8	1	01-050-351	O-RING, HOSE, PURPLE	
9	1	01-308-028	HOSE ASSY (28")	
10	1	01-380-028	HOSE & QUICK DISCONNECT ASSY	
11	1	21-085-101	BODY, BLACK	
12	1	21-080-119	DIAPHRAGM, BLACK	7.40
13	1	11-109-123	DISK, DIAPHRAGM	
14	1	21-080-005	DIAPHRAGM ASSY	
15	1	21-085-104	WASHER, THRUST	
16	1	21-085-105	COVER, DIAPHRAGM	
17	1	01-022-101	NUT, LOCKING, #5-40	
18	1	01-022-101	WASHER	
19	1	21-009-121	LEVER	
	1	21-009-121	INSERT, HOUSING	7.00
20		21-080-121		<u> </u>
21	1		HOUSING SPRING, DEMAND VALVE	
22	1	01-020-216		
23	1	11-108-102	STEM, DEMAND VALVE	4.50
24	+	11-108-101	SEAT, RUBBER	7,90
25	1	11-108-002	SEAT & STEM ASSY	
26	1	21-085-009	ORIFICE	
27	1	01-050-293	O-RING, RED	
28	1	21-085-107	TUBE, INLET	
29	2	01-050-385	O-RING, INLET TUBE, BLACK	
30	1	01-088-101	STRAP, MOUTHPIECE, BLACK	
	1	01-088-107	STRAP, MOUTHPIECE, CRYSTAL	
31	1	01-040-010	MOUTHPIECE, BLACK	
	1	01-040-011	MOUTHPIECE, RED	
	1	01-040-006	MOUTHPIECE, CRYSTAL	
32	1	01-073-110	CLIP, INLET RETAINING	
33	1	21-085-002	BUTTON, EXHAUST, RED	
	1	21-085-016	BUTTON, EXHAUST, GRAY	
L	1	21-085-017	BUTTON, EXHAUST, PINK	
34	1	01-020-172	SPRING, EXHAUST	
35	1	01-060-149	WASHER, STEM SEAL	
36	1	01-050-126	O-RING, EXHAUST STEM	
37		21-080-004	SEAL, EXHAUST	
38		01-121-114	NUT, HEX, #5-40	
39		21-085-109	GASKET, EXHAUST	
40	+	21-085-103	SPIDER, EXHAUST	
41		11-109-128	VALVE, EXHAUST, BLACK	
42	 	21-085-106	EXHAUST COVER	
43	-	21-626-005	BUTTON, INFLATION, RED	
ا" ا	i	21-626-014	BUTTON, INFLATION, GRAY	1
	1	21-626-015	BUTTON, INFLATION, PINK	
14	+	01-050-117	O-RING, INFLATOR STEM, BLACK	
44		01-030-117	SPRING, INFLATOR	 -
	+		SEAT ASSY	8.00
46	 	21-626-004	ļ	- J. 66
47	+	01-050-161	O-RING, PLUG, BLUE	
48	+	21-085-111	PLUG, INFLATOR	
₽	1	21-082-101	INLET PROTECTOR	

Date 9/94 Revison B Annual Repair Parts Kit #21-085-041

Technical Information:

To prevent field complaints and leakage, the AIR 2 should be adjusted so that it will withstand 150 psi intermediate pressure from the first stage. If it leaks at lower pressures, the spring load of the poppet can be boosted by adjusting the orifice #26. The orifice should be screwed completely into the inlet (away from the demand valve stem) for the initial adjustment, and gradually adjusted forward towards the demand valve stem to increase the spring tension if needed.

Special Engineering Notes:

Item #40 note: This part is oriented such that the exhaust valve item #41 seats against the side of the plastic spider with the flat ribs. There should be six ribs visible on the outside edge of the valve when it is installed properly. These ribs are provided for tool engagement. The barb of the exhaust valve should rest in the small circular recess on the side of the spider facing the body. After installation, the barb of the valve should be clipped off so only 1/8" remains above the floor of the spider. The extra length of barb is to facilitate assembly, and may interfere with the exhaust seal if left in place.

Item #32 note: This retaining clip is bowed to apply tension to the inlet tube when installed. The clip is installed so the outer curve of the clip faces away from the regulator body.

Legend (prices subject to change without notice)

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

