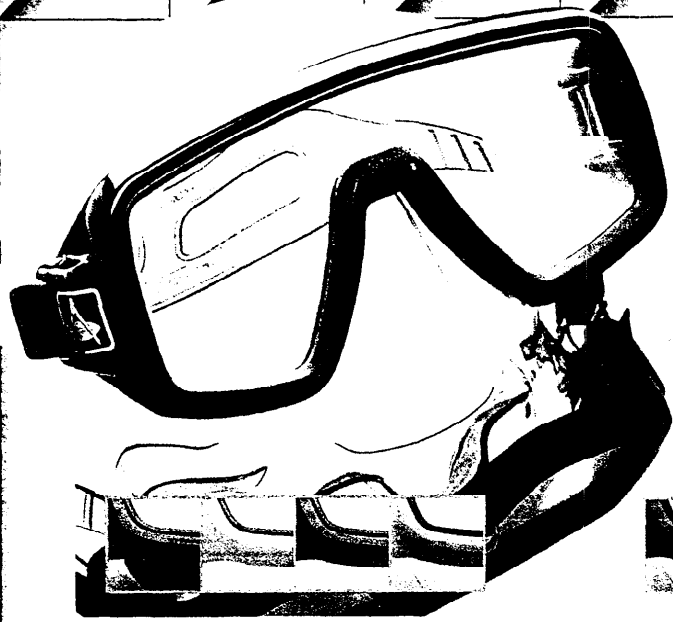
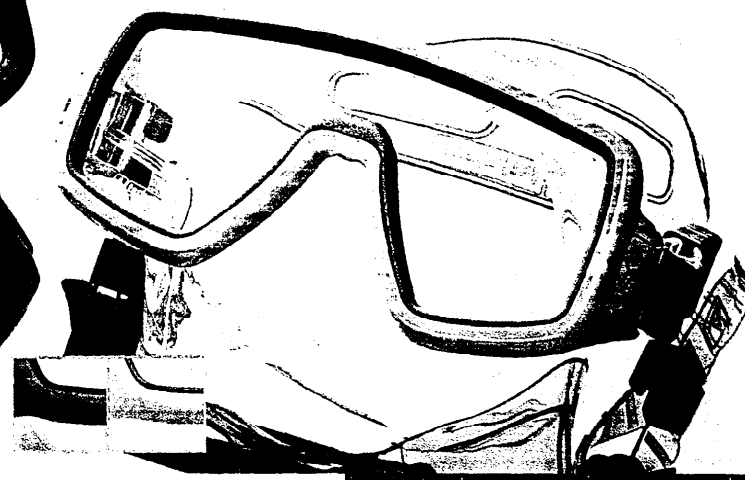




Catch sight of the Ventura. A tempered glass, single lens design featuring an easy-to-operate ratcheting buckle system for quick adjustment, large nose pocket for easy clearing and hypo-allergenic silicone construction.

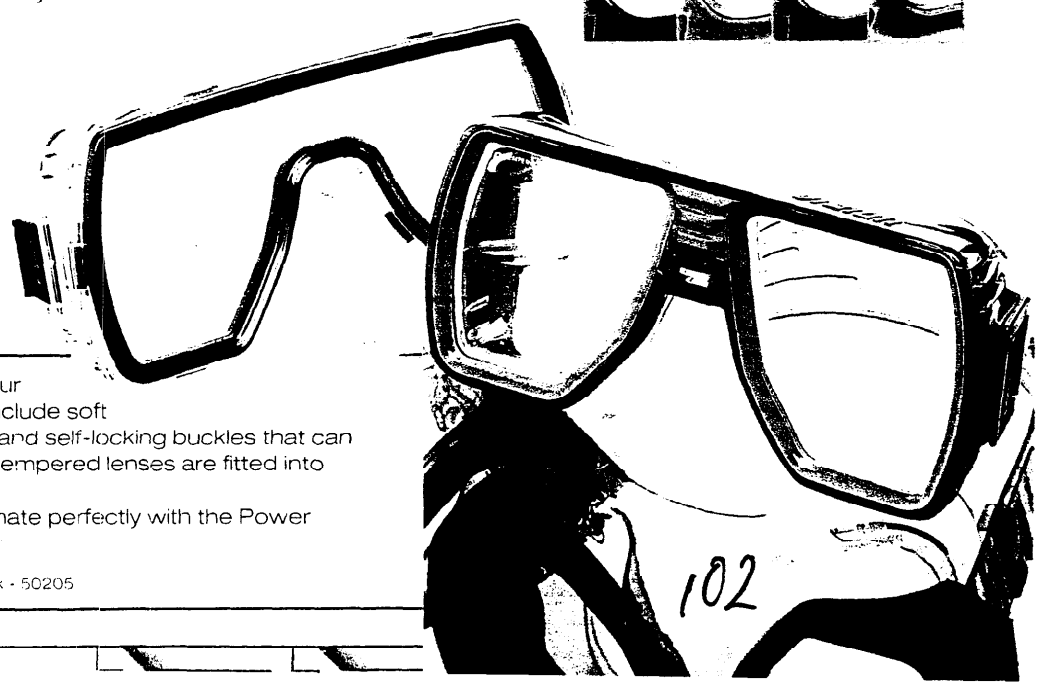
Blue - 5072; Black/Black - 5079; Lime - 5076; Black/Clear - 5073; Pink - 5075

New for 1994...Ventura mask technology is now available for smaller faces.

Pink - 5085; Blue - 5082; Lime - 5086

MASKS

VENTURA / VENTURA MIDI
VISION 1 / VISION 2
EXPO / EXPO JUNIOR
MIRAGE
ALBA JR.



Behold the advanced design of our Vision 1 single lens mask. Features include soft double-edged form-fitting face seal and self-locking buckles that can be operated single handedly. 5mm tempered lenses are fitted into frames of rugged polycarbonate.

Sea Quest's Vision Masks coordinate perfectly with the Power Curve and Mirage Snorkels.

Clear - 50200; Black - 50203; Blue - 50202; Pink - 50205

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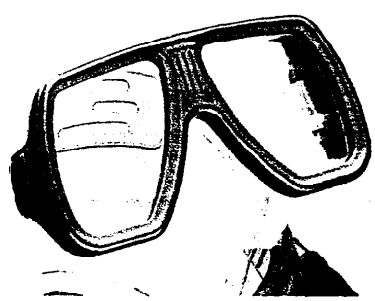
symmetrical optical lens system with
diopters ranging from -1.5 to -6.5

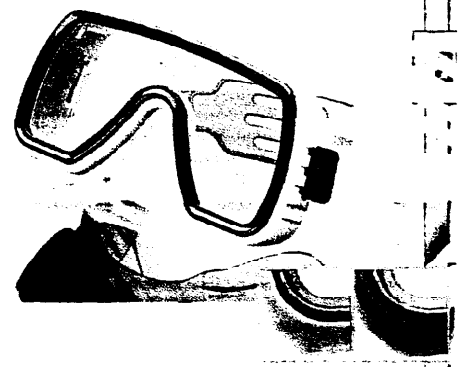
The Mirage Optical System represents the pinnacle of dive mask technology. The lightweight polycarbonate frame is engineered to allow removal and insertion of symmetrical (left or right) optical lenses. Lenses are available in a diopter range of -1.5 to -6.5.

Crystal clear, hypoallergenic silicone skirt features double edge face seal for watertight fit. One-handed ratcheting buckle system.

Mirage from Sea Quest.

Black - 5603; Clear - 5600; Blue - 5602; Pink - 5605; Lenses - 5699 available in diopters (-1.5 to -6.5)





Believe your eyes. Our popular children's single lens Expo Jr. is now available in a double lens mask for adults. Both models feature tempered lenses and silicone skirts.

EXPO
Blue - 5932; Pink - 5935; Lime - 5936

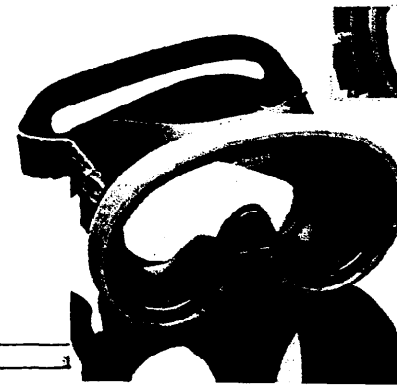
EXPO Jr.
Lime - 5926; Pink - 5925; Blue - 5922

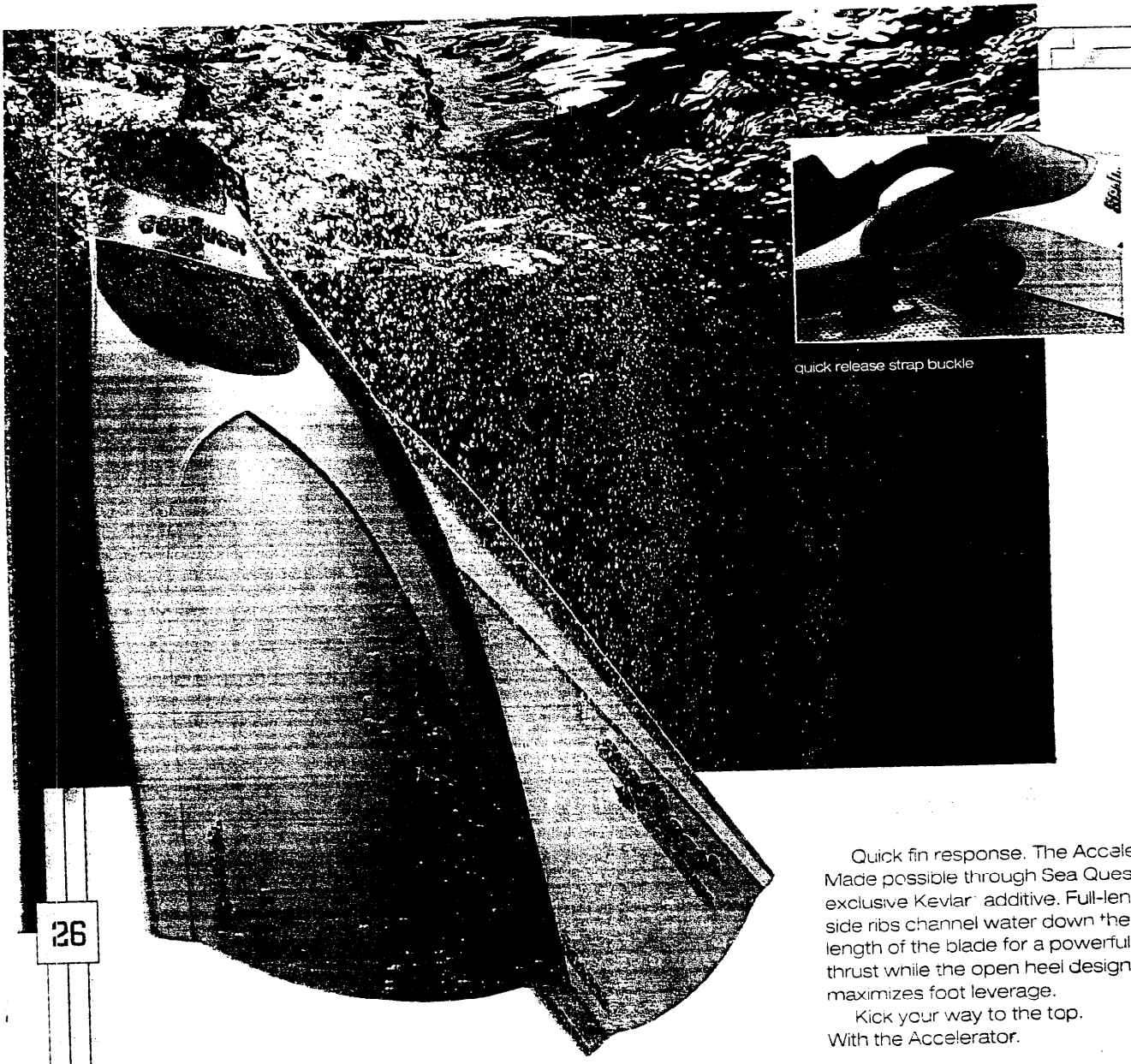
We were thinking big when we designed this wide vision mask for smaller faces. Tempered single lens mask with black rubber skirt.

Pink - 5065; Blue - 5062; Lime - 5066

A two lens mask featuring soft, double-feathered edge face seal. Self-locking, one-hand adjustable buckles. And a large nose pocket for easy access and clearing. Made of clear, hypoallergenic silicone and 5mm heat-tempered lenses, the Vision 2 is available in 9 different frame/ring combinations.

Blue/Charcoal - 50102-3; Clear/Lime - 50100-2
Clear/Pink - 50100-5 ; Clear/Charcoal - 50100-3
Pink/Black - 50105-4; Black /Charcoal - 50103-3
Pink/Charcoal - 50105-3; Black/Lime - 50103-2
Blue/Black - 50102-4



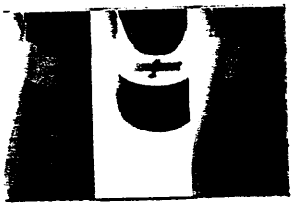


quick release strap buckle

Quick fin response. The Accelerator. Made possible through Sea Quest's exclusive Kevlar® additive. Full-length side ribs channel water down the length of the blade for a powerful thrust while the open heel design maximizes foot leverage.

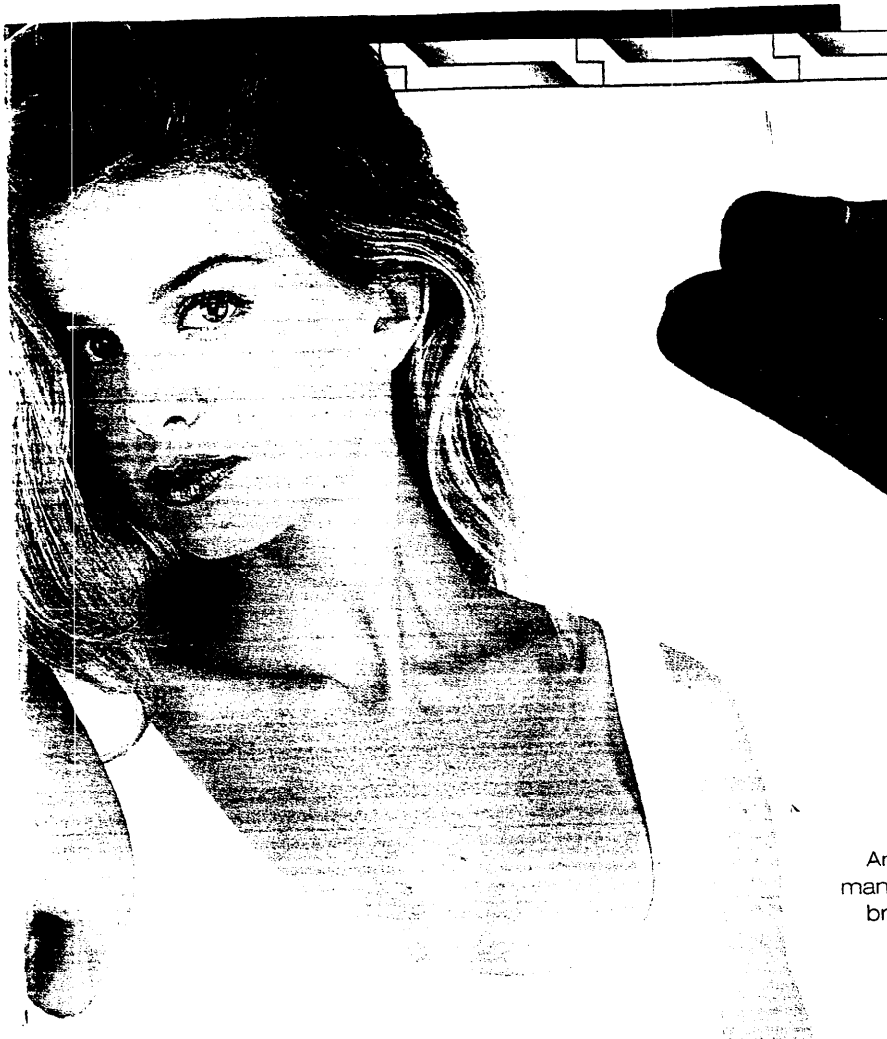
Kick your way to the top. With the Accelerator.

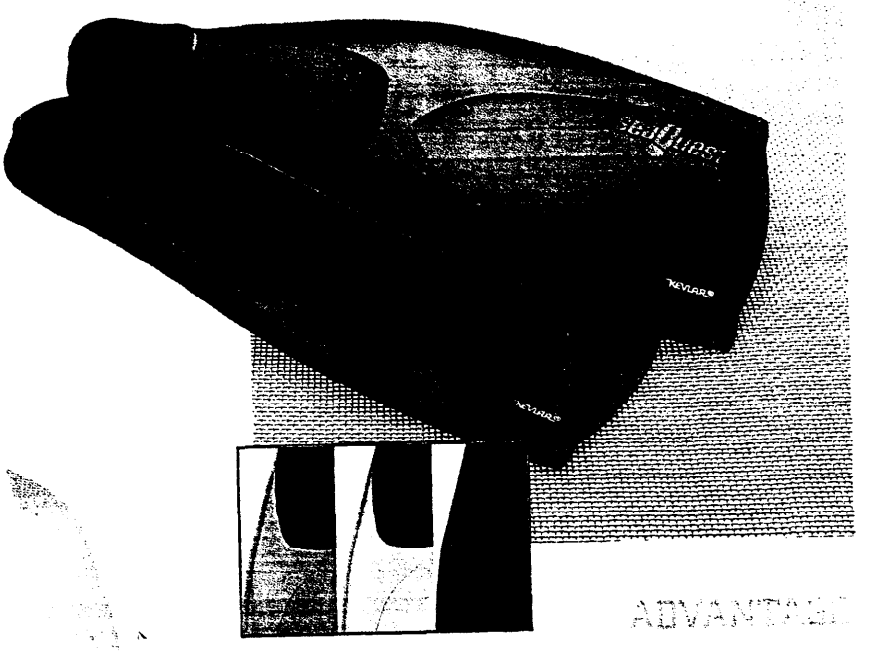
Pink - 40240-40242
Blue - 40210-40214
Lime - 40230-40233
Charcoal - 40220-40224



FINS

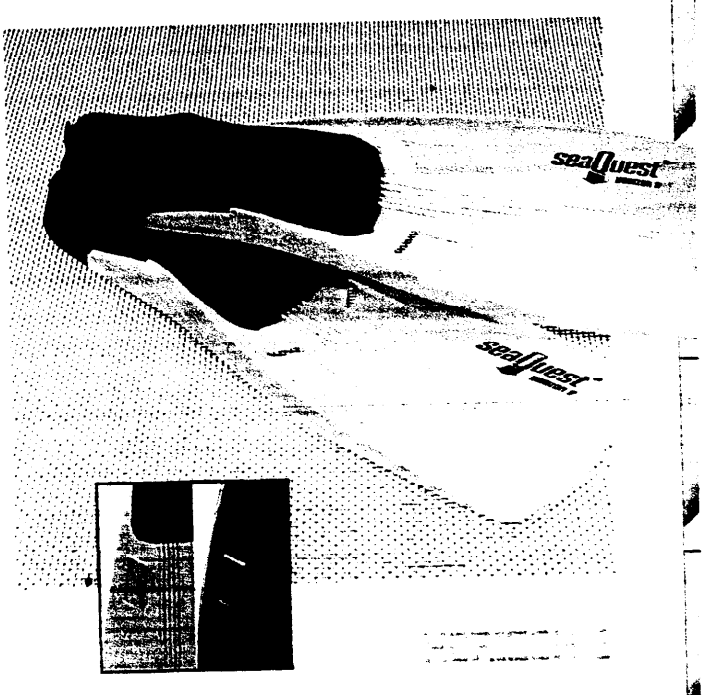
ACCELERATOR
ADVANTAGE
HORIZON





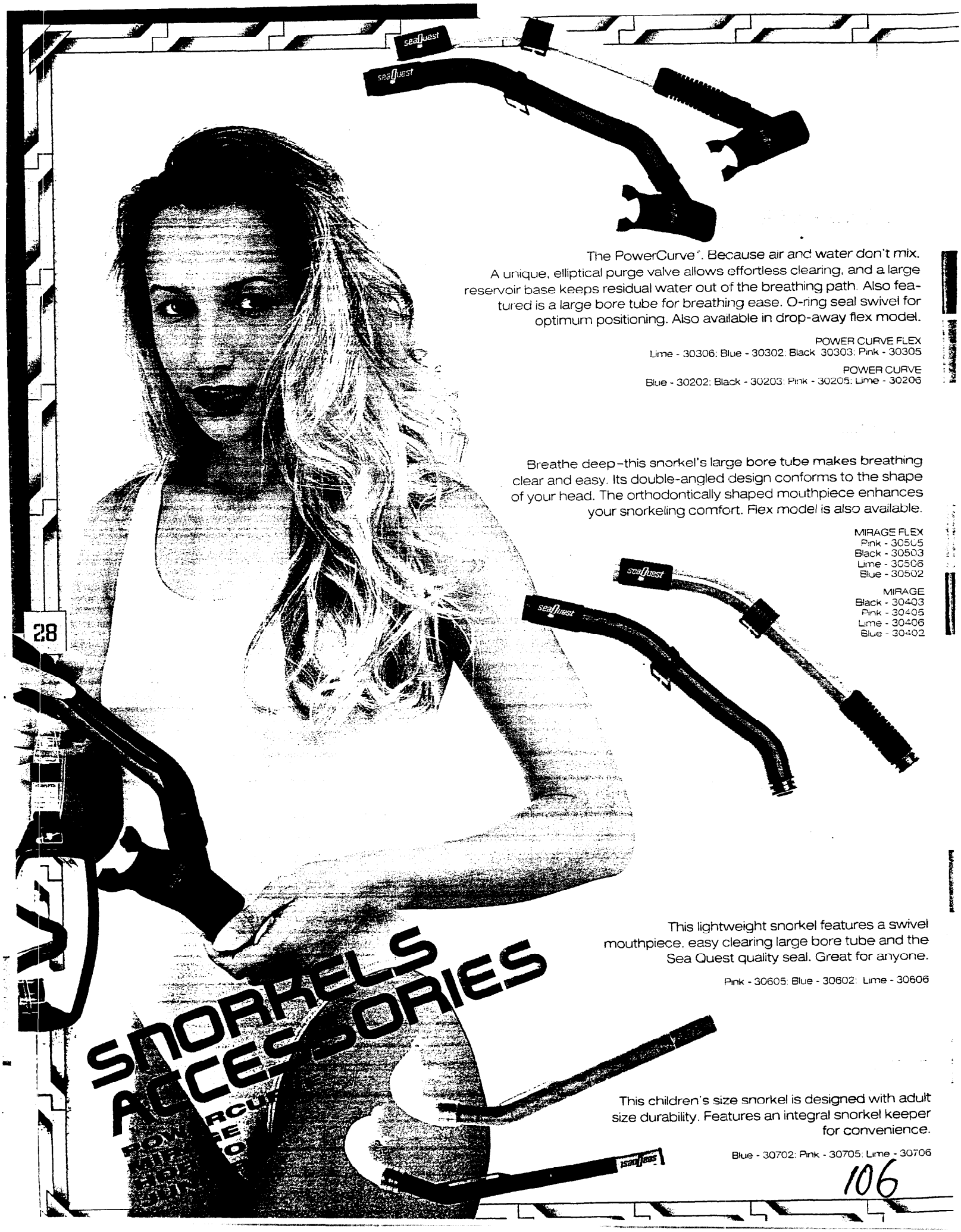
Any diver would benefit from these lightweight, high performance fins. Orthopedic full footpocket design utilizes a built-in bridge support for optimum foot-to-blade power efficiency. A Kevlar® additive increases resiliency. It's the Sea Quest Advantage.

Charcoal - 40423-40428 (3-4 to 11-12); Pink - 40443-40446
Lime - 40433-40438 (3-4 to 11-12); Blue - 40413-40418



We had recreation in mind when we designed these rugged full footpocket fins. Whether it's in the backyard pool or on a snorkeling trip, you'll enjoy standard Sea Quest comfort and durability. Horizon 2. Kicks for the whole family.

Lime - 40710-40718 (9-10 to 12-13), Pink - 40720-40726 (9-10 to 8-9)
Blue - 40700-40708 (9-10 to 12-13)



The PowerCurve®. Because air and water don't mix. A unique, elliptical purge valve allows effortless clearing, and a large reservoir base keeps residual water out of the breathing path. Also featured is a large bore tube for breathing ease. O-ring seal swivel for optimum positioning. Also available in drop-away flex model.

POWER CURVE FLEX
Lime - 30306; Blue - 30302; Black 30303; Pink - 30305

POWER CURVE
Blue - 30202; Black - 30203; Pink - 30205; Lime - 30206

Breathe deep–this snorkel's large bore tube makes breathing clear and easy. Its double-angled design conforms to the shape of your head. The orthodontically shaped mouthpiece enhances your snorkeling comfort. Flex model is also available.

MIRAGE FLEX
Pink - 30505
Black - 30503
Lime - 30506
Blue - 30502

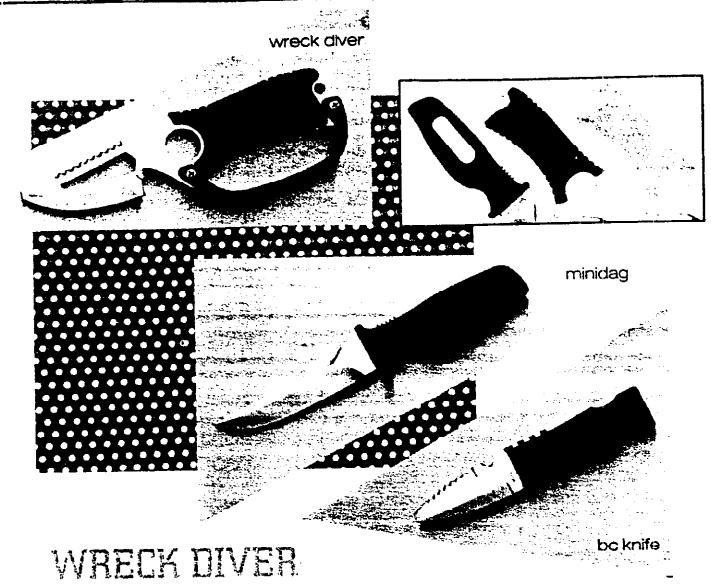
MIRAGE
Black - 30403
Pink - 30405
Lime - 30406
Blue - 30402

This lightweight snorkel features a swivel mouthpiece, easy clearing large bore tube and the Sea Quest quality seal. Great for anyone.

Pink - 30605; Blue - 30602; Lime - 30606

This children's size snorkel is designed with adult size durability. Features an integral snorkel keeper for convenience.

Blue - 30702; Pink - 30705; Lime - 30706



WRECK DIVER

A rugged, industrial-quality knife with durable handle, hand guard, highly polished 425 series stainless steel blade, blunt tip and utility tool accessories.

Blue - 20101; Black - 20100; Lime - 20102

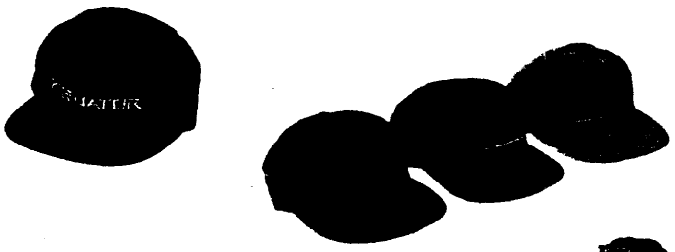
MINIDAG

This essential diver's tool features a slim profile sheath, positive-locking stainless steel stiletto blade and weather tough straps.

Black/Blue - 5210; Black/Lime - 5216

BC KNIFE

A blunt tipped utility knife sheathed in versatility. Designed to attach to the BC. Black - 20300



HATS

Predator - 1504; Blue - 1501
Spruce - 1506; Black - 1505

POLO SHIRTS

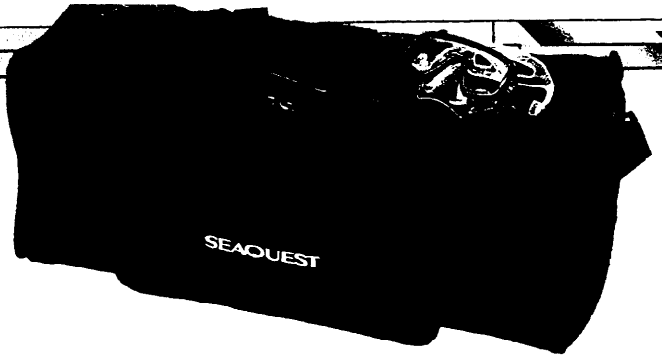
Jade - 1200-1203
Navy - 1300-1303
White - 1400-1403

T-SHIRTS

Ash - 1104-1107 M-XXL
White - 1121-1124

SWEAT SHIRT

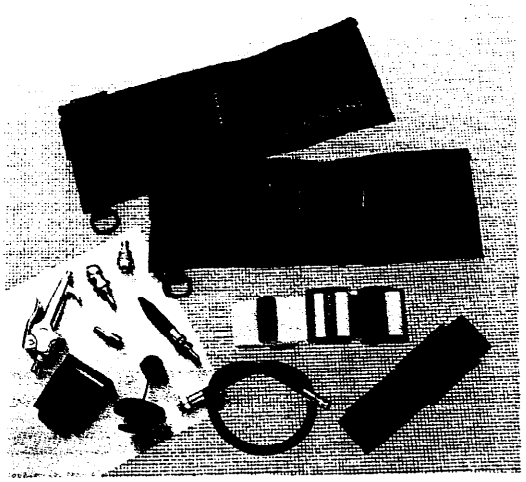
1110 - 1112 M-XL



EXPEDITION GEARBAG

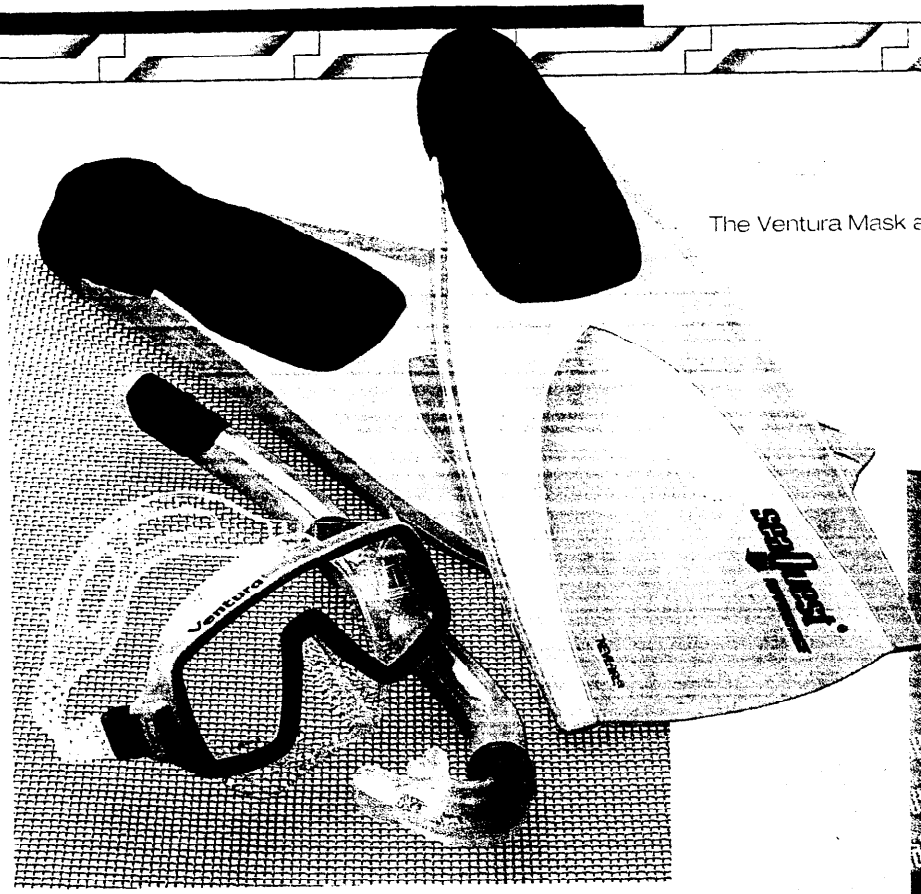
Our extra-large gear bag is designed to accompany you down to the beach or across the seven seas. Made of waterproofed, heavy duty nylon, this bag features reinforced carrying handles, U-shaped top opening, outside accessible dry pockets and self-repairing noncorrosive zippers.

EXPEDITION GEARBAG - 2003



ACCESSORIES:

EZ RELEASE SHOT BELT Black - 6021-6025 ; Blue - 6031-6035
POSITIVE RELEASE BELT Black - 6010; Blue - 6012; Lime - 6018
CAM BUCKLE & BELT Black - 6000; Blue - 6002; Lime - 6008
AIR SOURCE LP ADPT. - 9508 • TIRE INFLATOR - 9456 • AIR GUN - 9458
AIR NOZZLE - 9457 • 1/4" QD PLUG - 945" • CAM BUCKLE - 1A-08-201
DUMP VALVE CONVERSION KIT - 9025 • LP INFLATOR HOSE for Trimline 25" - 4525; for Versavalve 25" - 4425; for Air Source 25" - 5460



The Ventura Mask and Advantage Fins with the Mirage Snorkel are the perfect complement to hours of snorkeling and diving adventures.

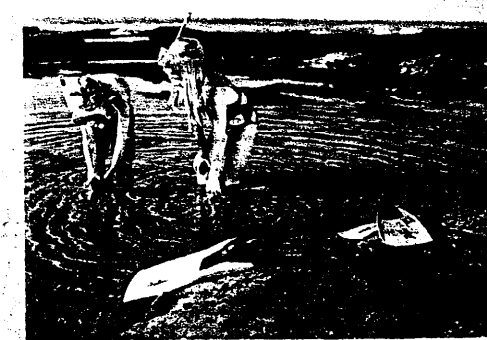
PRO 3 PIECE SET
Lime - 6076-3 - 6076-11 (3-4 to 11-12)
Blue - 6072-3 - 6072-11 (3-4 to 11-12)
Pink - 6075-3 - 6075-8 (3-4 to 8-9)
PRO 2 PIECE SET
Blue - 6072, Pink - 6075, Lime - 6076

Choose the mask/snorkel/fin or mask/snorkel combination that best fits your snorkeling and diving needs. Each package is integrated for maximum performance and value and all three-piece packages include a nylon mesh beach bag with draw string for easy transport and storage. Just pick one out and you're ready to get wet.

Pro, Sport and Junior packages are offered in 3 and 2 piece sets. All packages are available in Blue, Pink and Lime.

CRUISE LINE

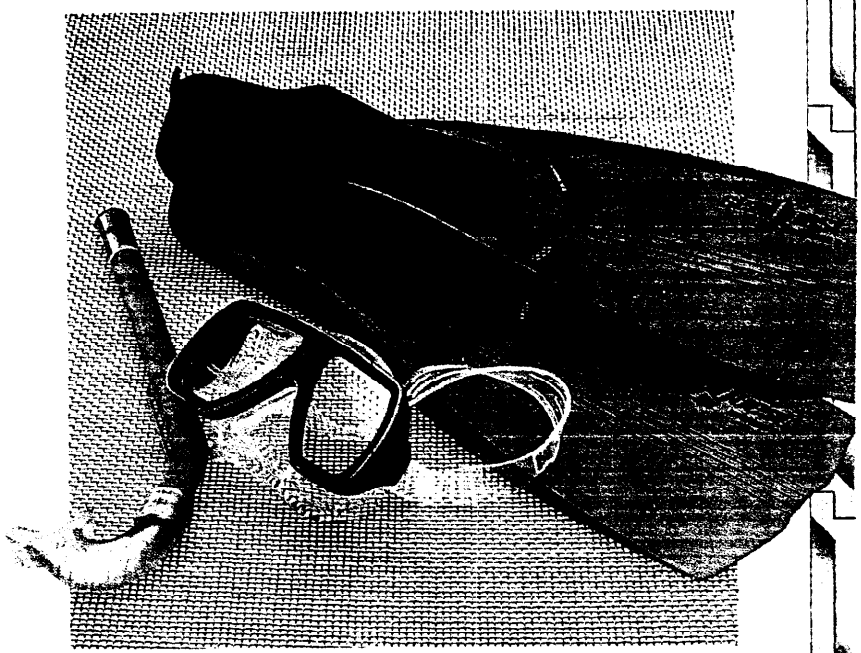
PRO
SPORT
JUNIOR
ALBA



Bring together the Expo Mask, Horizon Snorkel and Fins, and you're ready to discover new worlds of fun and beauty.

SPORT 3 PIECE SET
Pink - 6935-3 - 6935-8
Blue - 6932-3 - 6932-12
Lime - 6936-3 - 6936-12

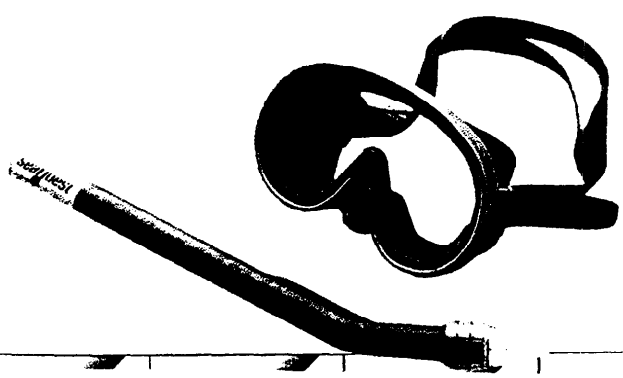
SPORT 2 PIECE SET
Blue - 6932; Pink - 6935; Lime 6936



This package is designed specifically to provide big comfort and performance to small faces, mouths and feet. Expo Jr. Mask, Junior Snorkel and Horizon 2 Fins.

EXPO JR. 3 PIECE SET
Blue - 6922-9 - 6922-5
Pink - 6925-9 - 6925-3
Lime - 6926-9 - 6926-5

EXPO JR. 2 PIECE SET
Blue - 6922; Pink - 6925; Lime - 6926



The Alba Jr. Mask with rubber skirt and Junior Snorkel make a great starter duo for the snorkeler to be.

Blue - 6062; Pink - 6065; Lime - 6066

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Regulator Service and Repair Manual
For Authorized Sea Quest Service Centers

Introduction

The Sea Quest Spectrum is the product of many years of research and development. Sea Quest has utilized proven materials and design to maximize reliability and performance.

This manual is intended only as a guide for the experienced repair person that has completed a Sea Quest regulator service and repair seminar. It is not intended to educate inexperienced repair personnel or the consumer in all aspects of Sea Quest regulator repair.

Sea Quest regulator repair seminars are available periodically to Authorized Sea Quest Dealers.

Servicing and repair at the repair shop level mainly involves cleaning, inspection, adjustment, and replacement of worn parts.

This manual provides step by step instructions for the complete disassembly, inspection, cleaning, reassembly, and testing of all Sea Quest regulators. It is IMPORTANT that all steps are followed in the exact order given. Read each section completely PRIOR to beginning work described in that section. This will familiarize the repair technician with important precautions to take during the servicing of Sea Quest regulators.

Pay close attention to all WARNINGS, CAUTIONS, and NOTES that are intended to draw your attention to items of importance.

General procedures

WORK AREA
Servicing and repair of Sea Quest regulators should be carried out in a clean well lit work area. As each regulator is disassembled all parts should be kept separate from parts of other regulators. Some special tools are required for proper disassembly and reassembly of Sea Quest regulators.

O-RING REMOVAL
When removing O-rings, care must be taken to not damage the O-rings or the metal sealing surfaces. Tools used to remove O-rings should not have any sharp edges or points that could scratch metal surfaces. It is recommended that the service technician obtain an O-ring removal tool of plastic or similar non-damaging material.

LUBRICATION
O-rings should be only lubricated with an approved compound. O-rings should be lubricated only with a very light film of silicone grease (Piston O-rings are the only exception). Do not use spray (aerosol) silicone lubricants. The aerosol propellant may damage the plastic and rubber components of the regulator.

NOTE: If the Spectrum is equipped with a DIN adaptor (3-122603) please use disassembly steps 1A-1 through 1A-9.

1-5 Remove the adjustment screw (27) by unscrewing it with a large flat bladed screwdriver.

1-6 Remove the main spring (26).

1-7 With a 30mm wrench remove the spring retainer (24) and then remove the spring pad (25).

1-8 Remove the thrust washer (23) taking care to not scratch or otherwise damage the main body.

1-9 Secure the dust cap (8) in place with the yoke screw.

CAUTION: Always wear eye protection before using compressed air.

1-10 Remove the diaphragm by blowing it out using a low pressure filtered air directed into one of the LP ports (see diagram). (All open ports may need to be blocked with port plugs if the diaphragm does not come out easily)

1-11 Remove all the LP and HP port plugs (32, 32A & 34), and remove all the LP and HP port plug O-rings (31, 31A & 33) from the port plugs.

1-12 Remove the pin pad (21) and then remove the first stage from the vise. Remove the pin (20) by inverting the first stage body.

1-13 Reinstall the first stage holding tool (3-116230) in the vise and position the first stage so that the high pressure plug (10) faces upwards.

1-14 Unscrew and remove the high pressure plug (10) using a large flat bladed screwdriver.

1-15 Remove the high pressure plug O-ring (11).

1-16 Remove the Spring (12).

1-17 Remove the first stage from the vise.

1-18 Remove the spring block (13), high pressure seat spring (16), and high pressure seat (11) by inverting the first stage. The loose components should fall out into the palm of your hand or table top.

1-19 Remove the Spring Block O-ring (15) and Back Up Ring (14) from the Spring Block.

CAUTION: Take care to not scratch or damage any metal O-ring sealing surface during the process of removing the O-rings. A scratch on the metal sealing surface will require replacement of the damaged part.

1-20 Push the crown (19) out of the body from the diaphragm side of the first stage by using the Seal/Seat extractor tool 3-116236

NOTE: Take care when handling the crown to prevent damage to the cone shaped sealing surface of the crown.

1-21 Remove the Crown O-ring (18) from the crown.

1-22 Remove the yoke screw (2).

1-23 Screw the first stage holder into one of the LP or HP ports and place the first stage holder into a vise. Position the first stage so that the yoke (4) is in the up position.

1-24 Remove the yoke (4) and the yoke retainer (5) by unscrewing the yoke retainer with a deep 26mm open end wrench.

1-25 If a proper sized wrench is not available the Yoke Retainer can be loosened by holding the Yoke Retainer in a vise and using the First Stage holding tool (3-116231) to turn the first stage body.

1-26 Remove the yoke retainer O-ring (6) from the yoke retainer (5).

1-27 Remove the circlip (3) from the yoke retainer (5) using a small flat tipped screwdriver. To prevent the circlip from springing out, cover with one hand while removing. Start lifting the circlip from the open side, continue with the next flat side, until the circlip is removed.

1-29 Remove the conical filter (4) from the yoke retainer (5).

1A Disassembly for DIN Connection

1A-1 Remove the DIN tank seat (36) by unscrewing with a 4mm allan wrench.

1A-2 Remove the O-ring (6) from the DIN tank seat and discard.

1A-3 Remove the DIN filter (38) and discard.

1A-4 Remove the DIN seat base with a 19mm wrench.

1A-5 DIN parts cleaning and inspection

1A-6 Check all metal parts for excessive wear or corrosion. Check all metal surfaces that make contact with O-rings for contamination and/or imperfections that might prevent effective sealing between metal surfaces and the O-ring. Inspect all threads for galling, cross threading, excessive wear or damage to the chrome plating.

1A-7 If any parts show any damage or excessive wear, they must be replaced with new parts.

1A-8 Follow the cleaning procedures outlined in section 2

1A-9 The two O-rings (6 & 37) and flat sintered filter (38) should be replaced at every routine servicing. These parts are not included in the service kit 3-9904 and should be ordered separately.

2 Cleaning and Inspection

2-1 All O-rings should be replaced at every servicing. New O-rings should be inspected for contamination and/or imperfections, and lightly lubricated with a thin film of approved lubricant prior to final installation.

2-2 In addition to the O-rings, the following parts should be routinely replaced at the time of servicing:

Diaphragm (22)
Backup ring (14)
Hp Seat (17)
Sintered Filter (4)

All O-rings and the above mentioned routine replacement parts are included in the Spectrum 1st stage service kit 3-9904.

NOTE: If using the Environmental kit the following should also be routinely replaced at the time of servicing:

Environmental diaphragm (42)
Environmental Silicone Fluid

2-3 The following parts should be closely inspected for the damage listed below. Close inspection is best accomplished by using a jeweler's magnifying loop under bright lighting.

Yoke (7)
Inspect for hairline cracks, or distortion. Also inspect the threads for damage or wear.

Springs (12, 16, 26)
Check for hairline cracks or any deformation or breaking of the coils.

Crown (19)C
heck the sealing surface of the crown for any nicks, scratches or other imperfections that may prevent an effective seal.
Spring block (13)
Examine the spring block thoroughly both externally and especially internally for any scratches, nicks, or other damage that may prevent an effective seal.
HP seat (17)
Prior to installation of a **new** HP seat check the HP seat for any distortion or imperfections of the soft sealing surface. Inspect the small hole that runs through the length of the HP seat for any contamination or clogging with foreign matter.

2-4 Check all metal parts for excessive wear or corrosion. Check all metal surfaces that make contact with O-rings for contamination and/or imperfections that might prevent effective sealing between metal surfaces and the O-ring. Examine all chrome plated surfaces for peeling or flaking. Inspect all threads for galling, cross threading, excessive wear or damage to the chrome plating.

If any parts show any damage or excessive wear, they must be replaced with new parts.

2-5 All metal parts can be cleaned in a mild soap and water solution. If necessary, metal parts may be cleaned in an ultrasonic cleaner using the appropriate ultrasonic cleaning solution. Cleaning of metal parts can also be done by soaking in a mild acetic acid solution (50/50 mix of distilled white household vinegar and water). Note: Be sure all O-rings and other rubber or plastic parts are removed before cleaning in an ultrasonic cleaner or acid bath.

2-6 Do not attempt to clean the conical filter (4) in any type of cleaning agent and reuse.

2-7 After cleaning, all parts should be thoroughly rinsed in clean fresh water and dried with filtered low pressure (30 psig) air.

3 Spectrum Reassembly

3-1 Screw a first stage holder tool (3-116230) into an open LP or HP port in the first stage.

3-2 Mount the first stage holder in a vise orienting the first stage so that the HP side faces up.

3-3 Install a new lightly lubricated Crown O-ring (18) onto the crown (19).

3-4 Place the Crown onto the seal/seat extractor tool (3-116236) with the cone portion of the crown facing upwards. Install the Crown into the first stage body using the Seal/Seat Extractor tool as a guide. Lower the Seal/Seat Extractor into the high pressure side of the first stage.

3-5 Using the plastic side of the Seal/Seat Extractor tool gently push down on the cone side of the Crown to ensure that the Crown is firmly seated.

3-6 Insert the HP seat (17) on top of the crown through the high pressure side of the first stage body.

3-7 Insert the HP seat spring (16) down over the HP seat in the first stage body.

3-8 Install a new backup ring (14) and then install a new lightly lubricated Spring Block O-ring (15) in the spring block

3-9 Place the Spring Block assembly (13) into the first stage body with the opening of the spring block facing the HP seat spring and the HP seat.

3-10 Place the Spring block spring (12) on top of the spring block. Install a new O-ring (11) on the HP cap (10) and screw the HP cap in only a few threads. (Final tightening of the HP cap will be done in **section 3-18** after assembly of the low pressure side).

3-11 Insert the Pin (20) into the center hole on the LP side of the first stage guiding it through the middle of the crown. Gently wiggle the pin while pushing down to make sure the pin engages the HP seat.

3-12 Install the pin support (21) on top of the pin and push down on the pin support several times to confirm it is properly seated (you will feel the spring action on the pin).

3-13 Place a new main diaphragm (22) on top of the pin support and secure the diaphragm by pushing the outer edge of the diaphragm down onto the seating shoulder below the threads on the first stage body. The diaphragm edge should be evenly and firmly positioned on the seating shoulder in the first stage body. Do not lubricate diaphragm as this may interfere with proper retention.

3-14 Install the diaphragm washer (23) in the same manner making sure it is evenly and firmly positioned on top of the diaphragm.

3-15 Position the spring pad (25) in the center of the diaphragm.

3-16 Screw the Spring Retainer (24) into the first stage body and tighten to a torque of 20 (+/-2) foot pounds.

3-17 Center the spring (26) on top of the spring pad. Secure the spring by screwing the adjustment screw (27) into the first stage body on top of the spring and spring pad. Tighten the adjustment screw until it is flush with the first stage body.

3-18 Return to the HP side and tighten the HP cap (10) to 40 inch pounds.

3-19 Install a new lightly lubricated Yoke Retainer O-ring (6) on the Yoke Retainer (5).

3-20 Place the conical filter (4) down into the yoke retainer (5). Lock into place with the circlip (3).

3-21 Insert the first stage holder tool (3-116230) into a HP port and clamp the first stage holder into a vise. Position the first stage so that the HP inlet side faces upward.

3-22 Place the yoke (4) over the HP inlet on the first stage.

3-23 Place one drop of Locktite thread locking compound on the second thread of the Yoke Retainer (5) just below the yoke retainer O-ring (6).

CAUTION: Do not allow locktite to make contact with the O-ring or other elastomeric seals, Do not allow Loctite liquid to enter main first stage body.

Screw the yoke retainer into the HP inlet of the first stage body through the hole in the yoke (4). Use a torque wrench with 26mm socket to tighten the yoke retainer (5) to 16 +/- 2 foot pounds. Lubricate the yoke screw with a thin film of silicone grease and screw into the yoke.

Replace the dust cap and secure it with the yoke screw.

3A DIN Fitting Reassembly

3A-1 Install a new lightly lubricated O-ring (6) on the DIN seat base (39).

3A-2 Place the DIN seat base into the DIN hand wheel (40).

3A-3 Screw the DIN seat base into the high pressure body (30) and tighten with a 19_mm wrench to a torque of 10 ft lbs.

3A-4 Install a new flat sintered filter (38) into the DIN seat base.

3A-5 Place a new O-ring (37) on the DIN tank seat (36) and screw the DIN tank seat into the DIN seat base. Tighten to 27 inch lbs.

4 Spectrum First Stage Testing

This step in the servicing procedure should occur after the second stage is serviced and connected to the first stage.

Testing of the first stage only can be accomplished either on a test bench or with the first stage connected to an alternate high pressure air supply such as a scuba tank. Testing is done initially at a supply pressure of 500 psig and then again at 3000 psig. First stage testing on a test bench is recommended because it is easier to vary the supply pressure and additional tests can be done on the second stage.

The following tests should be done with the second stage connected to the appropriate LP port on the first stage.

CAUTION: Always wear eye protection while performing this procedure.

To verify that the first stage intermediate pressure is correctly set to 133 (+/-7) psig, attach an intermediate pressure (IP) gauge to a low pressure (LP) port. Attach the first stage to a low pressure (@500 psig) air supply. While watching the IP gauge, slowly open the air supply valve. The gauge should stop at or near the correct intermediate pressure of 133 +/- 7 psig.

CAUTION: If the gauge indicator continues beyond an intermediate pressure of 160 psig, immediately turn off the air supply valve and depressurize the first stage by depressing the second stage purge button. This indicates a failure of the first stage.

Depress the second stage purge button several times while observing the intermediate pressure. The intermediate pressure should drop, then return to the original intermediate pressure. Watch the intermediate pressure for 5-15 seconds after purging. The intermediate pressure should not "creep" or slowly increase more than 5 psig within this time.

High intermediate pressure

If the intermediate pressure reading is higher than the recommended 133 (+/- 7) psig it may be reduced by unscrewing (counter clockwise) the adjustment screw (27). Unscrew the adjustment screw 1/8 of a turn and then depress the second stage purge button several times while observing the IP gauge. Continue this process until the correct intermediate pressure is achieved. Do not turn the adjustment screw more than 1/8 of a turn at a time.

Low intermediate pressure

If the intermediate pressure reading is lower than the recommended 133 (+/- 7) psig it may be increased by screwing in (clockwise) the adjustment screw (27). Screw in the adjustment screw 1/8 of a turn and then depress the second stage purge button several times while observing the IP gauge. Continue this process until the correct intermediate pressure is achieved. Do not turn the adjustment screw more than 1/8 of a turn at a time.

4-2 After the intermediate pressure has been stabilized at the correct pressure, repeat the above tests at a supply pressure of 3000 psig.

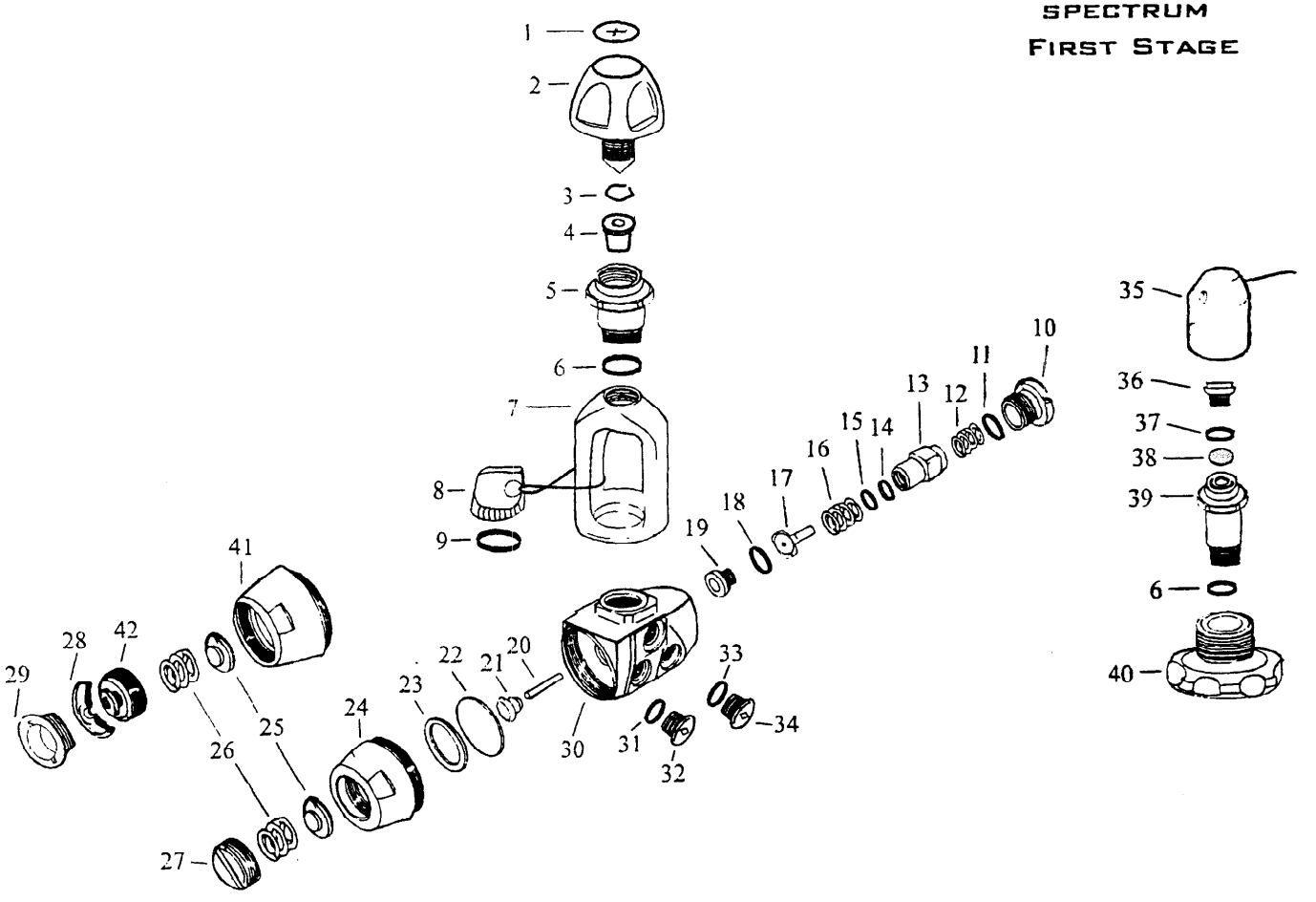
Leak testing

If the IP is correct, completely submerge the first stage and second stage in clean water while it is connected to a high pressure air source and observe the first stage for leaks over a one minute period.

If leaks are detected in the first stage, the O-ring seals and/or metal sealing surfaces must be re-inspected for damage and/or contamination and must be cleaned

REGULATOR REPLACEMENT PARTS

SPECTRUM
FIRST STAGE



ITEM	DESCRIPTION	PART #	DEALER
	FIRST STAGE		
1	Button Sticker	3-122626	.80
2	Yoke Screw	3-122295	4.00
3	Circlip	3-116124	.40
4	***Conical Filter**	**3-121129**	2.10
5	Yoke Retainer	3-122207	4.10
6	***O-ring, Yoke/Din**	**3-850219**	.50
7	Yoke 3000 PSI	3-116855	10.50
8 & 9	Dust Cap w/ O-ring	3-122317	.90
10	Plug	3-122234	1.80
11	***O-ring, Plug**	**3-213714**	.50
12	Spring	3-122243	.70
13	Spring Block	3-122227	2.35
14	***Back Up Ring**	**3-119129**	.30
15	***O-ring**	**3-119135**	.30
16	Spring	3-122244	.85
17	***Seat, High Pressure**	**3-122230**	8.50
18	***O-ring**	**3-840163**	.55
19	Seat, Crown	3-122224	6.40
20	Pin	3-122225	3.80
21	Pin Support	3-122236	2.15
22	***Diaphragm**	**3-119159**	1.30
23	Washer, Diaphragm	3-119143	1.00
24	Body Cap	3-122210	6.20
25	Spring Pad	3-119155	1.50
26	Spring	3-119156	1.70
27	Adjustment Screw	3-122219	3.10

ITEM	DESCRIPTION	PART #	DEALER
28	Diaphragm, Environmental	3-122262	2.90
29	Diaphragm Retaining Screw, Environmental	3-122248	4.75
30	Body High Pressure	3-122253	40.00
31	***O-ring, LP Port/Hose (4 required)**	**3-116881**	.30
32	LP Port Plug	3-122229	2.25
33	***O-ring, HP Port (2 required)**	**3-116174**	.25
34	HP Port Plug	3-122232	2.25
35	Dust Cap, Din Connector	3-117218	2.80
36	Tank Seat, Din Connector	3-122318	1.40
37	O-ring	3-228157	.25
38	Filter, Din Connector	3-113616	3.35
39	Seat Base, Din Connector	3-122309	4.10
40	Hand Wheel Din Connector	3-122308	10.80
41	Body Cap, Environmental	3-122242	8.10
42	Adjusting Screw, Environmental	3-122264	5.60

*Items in bold are included in the Service Kit

SERVICE KIT

First Stage	3-9904	15.75
Environmental Kit	3-122603	30.00
DIN Kit	3-122369	24.50

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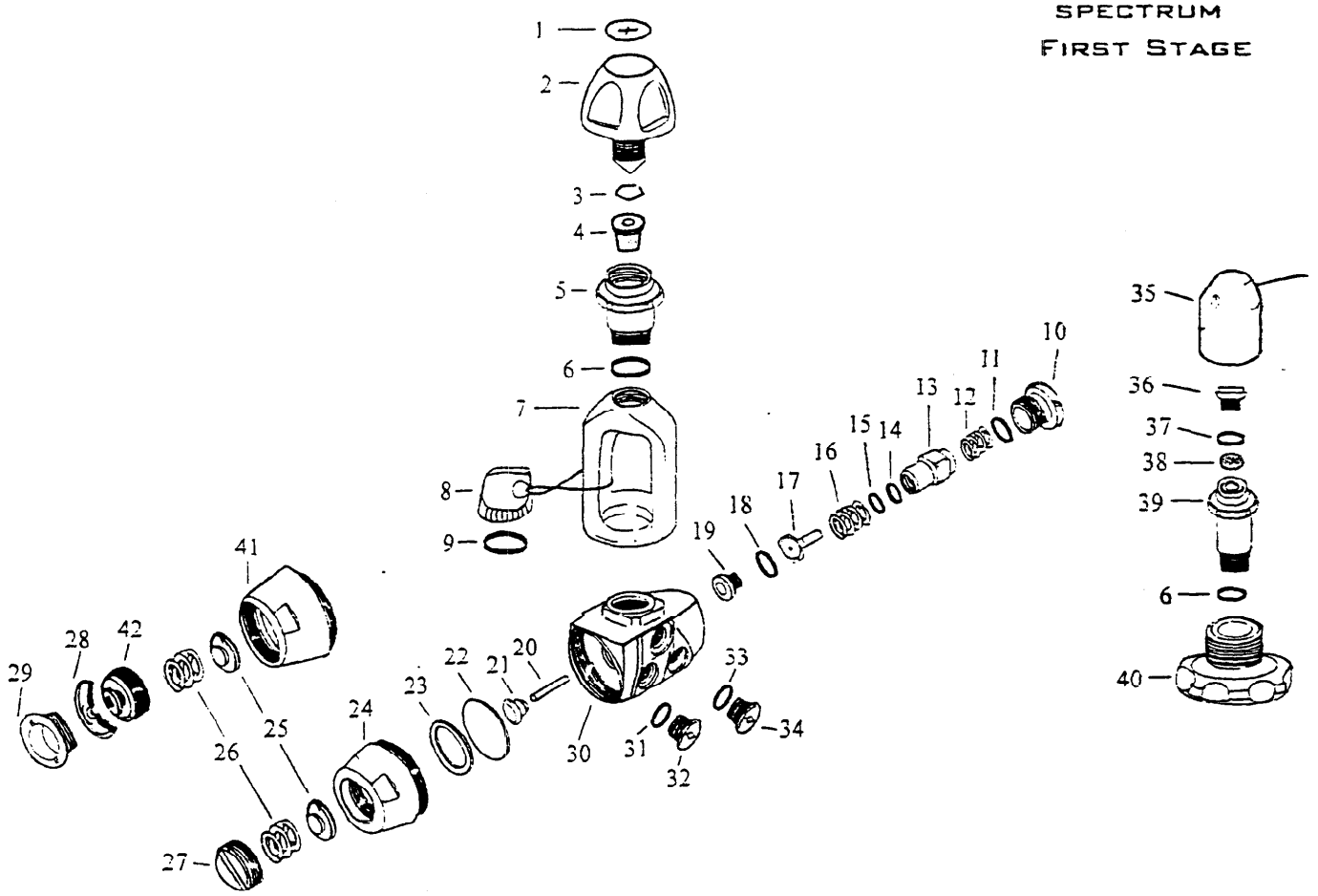
Regulator Replacement Parts

SPECTRUM
FIRST STAGE



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12	Spring	3-122243	.70
13	Spring Block	3-122227	2.35
14	***Back Up Ring**	**3-119129**	.30
15	***O-ring**	**3-119135**	.30
16	Spring	3-122244	.85
17	***Seat, High Pressure**	**3-122230**	8.50
18	***O-ring**	**3-840163**	.55
19	Seat, Crown	3-122224	6.40
20	Pin	3-122225	3.80
21	Pin Support	3-122236	2.15
22	***Diaphragm**	**3-119159**	1.30
23	Washer, Diaphragm	3-119143	1.00
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32	LP Port Plug	3-122229	2.25
33	***O-ring, HP Port (2 required)**	**3-116174**	.25
34	HP Port Plug	3-122232	2.25
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39	Seat Base, Din Connector	3-122309	4.10
40	Hand Wheel Din Connector	3-122308	10.80
41	Body Cap, Environmental	3-122242	8.10
42	Adjusting Screw, Environmental	3-122264	5.60

*Items in bold are included in the Service Kit

Service Kit		
First Stage	3-9904	15.75
Environmental Kit	3-122603	30.00
DIN Kit	3-122369	24.50

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EXHIBIT D

SEA & SEA SPECTRUM
FAXES.

P.O. BOX 25018
SANTA ANA, CA 92799-5018
3323 W. WARNER AVE.
SANTA ANA, CA 92704
(714) 540-8010

MISCELLANEOUS SHIPPING ORDER

SHIPPER NUMBER 6364

DATE 12/9/93

P.O. REF. N/A

NCMR NUMBER N/A

SHIP MATERIAL TO: XXX Same

CONFIRMING TO:

VENDOR CODE

REQ. NO.

ITEM	QUANTITY	U/M	USD PART NO.	DESCRIPTION	ORIGINATED BY	DEPARTMENT	UNIT COST
1	180			H.P.SEATS VALUE $450.00 PER S.T.			

DEBIT ACTION ☐ YES ☐ NO ACCOUNT NO.

TRANSACTION CODE ☐ IS ☐ IP ☐ - DA ☒ NONE

REASON FOR SHIPPING:

FOR PRODUCTION REPLACEMENT.

SHIPPED VIA	FREIGHT	WEIGHT	RECEIVED BY	PACKED BY	FREIGHT ACCOUNT	AUTHORIZED BY:	DATE
USR UPS	☐ COL ☒ PPD		X			SERGE TABA	12/9/93

TYPE	CARRIER	NO. OF PACKAGES	DATE SHIPPED	RECEIPT NO.	AMOUNT	CODE	ACCOUNTING:	DATE

COPIES TO: ORIGINATOR
ACCOUNTING
CONSIGNEE

PACKING SLIP

CONFIDENTIAL

Sea Quest Inc.
2151 Las Palmas Dr.
Carlsbad, Ca. 92009
Fax # 619-438-3142

20:45

FACSIMILE MESSAGE

Date: December 17, 1993

Page: 1 of 1

To: Sea & Sea

Attn: Mr. Nakano,

Re: Spectrum high pressure poppets
You should be receiving the poppets very soon. Please note that we would like to have you return all of the replaced poppets.

Best regards,

Robbert Bruins

CC: BEN D'ARMANCOURT

Sea Quest Inc.
2151 Las Palmas Dr.
Carlsbad, Ca. 92009
Fax # 619-438-3142

F A C S I M I L E M E S S A G E

Date: December 13, 1993 Fax ref: SPSSSP5

Page: 1 of 1

To: Sea & Sea

Attn: Mr. Nakano

Re: Spectrum regulator poppet seals
Thank you for your patience and assistance in this matter. As stated in Don Rockwell's fax to you on November 29, we will be sending you 180 high pressure poppets seals part # 3-122320 tomorrow.

Best regards,

Robbert Bruins

cc: Don Rockwell
Bill Oliver
Ben D'Armancourt, La Spirotechnique

seaQuest

2151 Las Palmas Drive
Carlsbad, CA 92009
(619) 438-1101 Phone
(619) 438-3142 Fax

CONFIDENTIAL

FAX

TO: **Sea & Sea Japan** **Date:** **29.11.93**

ATTN: **Nori Nakano** **Pages:** **1**

Dear Nori:

Thank you for your return fax. We understand now that you have tested 50 Spectrum Regulators between 150 and 200 psi and have not had any poppet seal failures.

However, your feeling at this time is that you are not comfortable with poppets having the lot #93102. You have further stated that if we find out that there is a production problem with lot #93102, then you would like us to replace these poppets with new ones.

To answer your question, we have done considerable testing at U.S. Divers and La Spirotechnique and have found nothing to support that there may be anything wrong with the poppet lot #93102. But, to put you in a more comfortable situation, we will make replacement poppets available to you. We can send Robbert Bruins to do the replacements or, if you prefer, you can do the replacements yourself.

1. Please let me know if this is acceptable to you.

2. Please let us know the exact quantity of replacement poppets you need.

3. Please let me know if you want us to send Mr. Bruins or if you will be doing the replacement yourself.

Nori, please understand that our companies have invested a substantial amount of effort in getting a good, high quality balanced diaphragm regulator to you in very little time. We need the Spectrum to be a success in Japan and require your utmost participation in achieving the goal.

I will await your reply to questions 1 - 3.

Thank you and Best Regards,

Don

cc: Franck Muller, SAF
Benoit d' Armencourt, La Spirotechnique
Bill Oliver, Sea Quest
Robbert Bruins, Sea Quest

SEA&SEA
UNDERWATER CAMERA EQUIPMENT
SEA & SEA PRODUCTS LTD.
3-2-20, Saiwaicho, Kawaguchi-shi, Saitama, Japan. 332
Tel: 0482-56-2251 Fax: 0482-56-2276

Nov 24.93

To : Sea Quest Inc

CC: Robert
René.

Attn : Mr Don Rockwell

Dear Don

We thank you for your fax of Nov 23rd.
We are pleased to know that your engineer, Mr Robbert Bruins will be able to go to Japan to investigate the situation of Spectrum regulator.

But, as you know, ever if he will go to Japan we would not be able to show the evidence and others than the samples we sent to you.

Anyway, Don, can you wait for 2 days more? We will check with some quantities of regulator again and report to you.

Also the week of Dec 6th is not convienient for us, since we have another appointment with the foreigner on Dec 7th, 9th and 10th.
So it would be better for us that he would come to Japan on the week of Nov 29th or Dec13th.

Best regards,

N.Nakano

seaQuest

2151 Las Palmas Drive
Carlsbad, CA 92009
(619) 438-1101 Phone
(619) 438-3142 Fax

FAX

CONFIDENTIAL

TO: **La Spirotechnique** **Date:** **23.11.93**

ATTN: **Ben d'Armancourt** **Pages:** **1**

Dear Ben:

Do you have the ability to match the HP seat lot number with the serial number of first stages assembled at Spiro?

If so, would you please provide us with a list of first stage serial numbers that contain HP seats from the suspect lot?

We intend to send someone to Japan to assist in the retrofitting of their inventory with new HP seats. We will also inspect our inventory for serial numbers with the suspect seats.

Best Regards,

Bill

cc: Robbert

seaQuest

2151 Las Palmas Drive, Carlsbad, CA 92009 USA
Tel: (619) 438-1101 Fax: (619) 438-3142

TO: SPIROTECHNIQUE

ATTN: BEN D'ARMANCOURT

DATE: 11/5/93

PAGES: 1 OF 2

ATTACHED IS SEA & SEA'S RESPONSE TO MY FAX REF. SPSSSP3 NOV 4.

BEST REGARDS,

Sea Quest Inc.
2151 Las Palmas Dr.
Carlsbad, Ca. 92009
Fax # 619-438-3142

20:45

F A C S I M I L E M E S S A G E

Date: November 1, 1993 Fax Ref: SPSSMSC

Page: 1 of 1

To: Sea & Sea

Attn: **Mr. N. Nakano**

Re: Spectrum regulator
We have received the sample Spectrum regulator today. We will inspect this as soon as possible and inform you of what we find.

Re: Trimline REOP caps
It may be necessary to tap on the cap with a plastic mallet (hammer). Tap all the way around the cap. This will break loose the small drop of adhesive.

Re: Cochran's computer
We have received the computer and will send it out to you in the next couple of days.

Best regards,

Robbert Bruins

CONFIDENTIAL FAXED

Sea Quest Inc.
2151 Las Palmas Dr.
Carlsbad, Ca. 92009
Fax # 619-438-3142

F A C S I M I L E M E S S A G E

Date: October 28, 1993 Fax Ref: SPSSSP3

Page: 1 of 1

To: Sea & Sea

Attn: Mr. N. Nakano

Re: Spectrum performance your fax of October 28
Thank you for the complete explanation of the situation. We now understand very well. I have sent a copy of your fax to Spiro. We are waiting for a reply from Spiro and to receive your samples.

Re: Trim line inflator troubles
We put a very small drop of glue on the threads of the #8 cap. You should still be able to open it with no problem if you use slightly more force.

Re: Cochran's Aquanaut computer
We have been trying to find one of these. We have one on order and are supposed to receive it in one week.

Best regards,

Robbert Bruins

cc: Sarah Gutz

seaQuest

2151 Las Palmas Drive, Carlsbad, CA 92009 USA
Tel: (619) 438-1101 Fax: (619) 438-3142

TO: SPIROTECHNIQUE

ATTN: BEN D'ARMANCOURT

DATE: 10/20/93

PAGES: 1 OF 2

ATTACHED IS A SEA & SEA FAX I RECEIVED TODAY. THIS CLARIFYS SOME THINGS.

BEST REGARDS