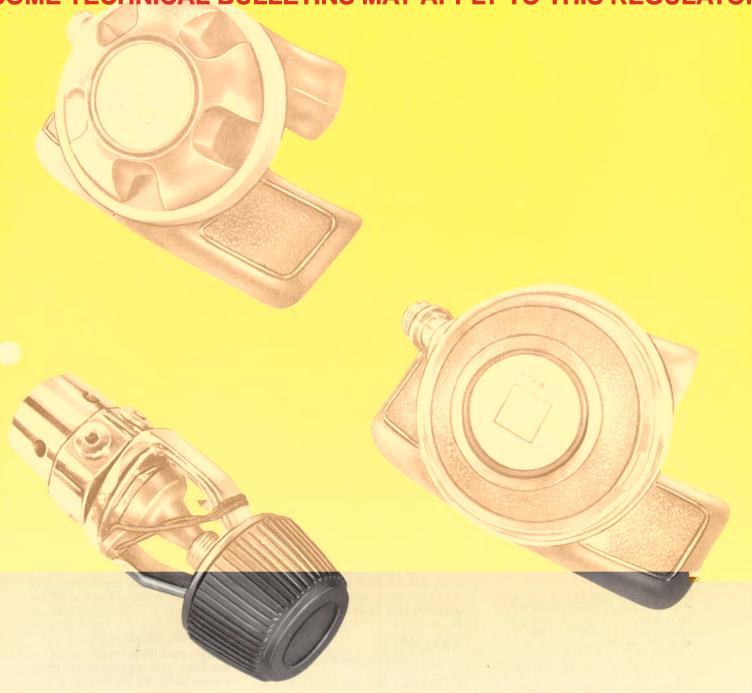
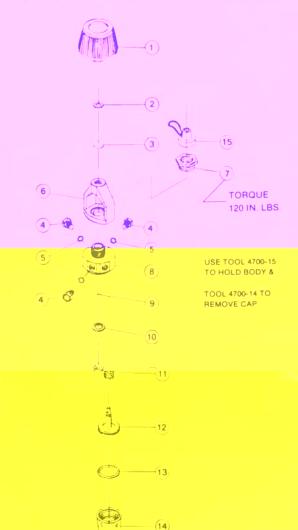
ASSEMBLY AND MAINTENANCE GUIDE

FOR REFERENCE ONLY
SOME PARTS MAY NO LONGER BE AVAILABLE
SOME TECHNICAL BULLETINS MAY APPLY TO THIS REGULATOR



SHERWOOD SRB 2000 REGULATOR

SRB 2005 FIRST STAGE REGULATOR



NO.	CAT. NO.	DESCRIPTION
	SRB 2005	REGULATOR 1ST STAGE
1	1-4005-30	KNOB ASS'Y. (MOLDED)
2	3504 3	RETAINER RING
3	1390-7	FILTER
4	1-3105-6	PLUG
5	G011B	O-RING (Was 3329-6)
6	2-2005-10	YOKE
7	1-1665-17	RETAINING NUT
8	2-3348-10	BODY
9	G007A	O-RING (Was 3348-7)
10	6526	SHIM
11	3529-3	SPRING
12	25-3505-170	PISTON ASS'Y
10	G022A	O-RING (Was 3505-18)
14	4 2-3505A-16	CAP
15	5 3529-6A	CAP & CORD ASS'Y.

DESCRIPTION

ASSEMBLY AND MAINTENANCE SRB 2005 FIRST STAGE REGULATOR

DISASSEMBLY

NOTE: Standard inspection of components shall be performed during disassembly of the regulator.

- 1. Remove knob (1) retaining nut (7) and yoke (6) from body. 2. Remove the end cap (14).
- 3. Remove the piston (12) from the end
- 4. Remove the spring (11) any shims (10) from the regulator body (8).
- 5. Remove the star washer (2) filter (3) and discard.

NOTE: Clean all metal parts in a suitable solution such as white vinegar in an ultrasonic bath. Rinse in clear water and dry

ASSEMBLY

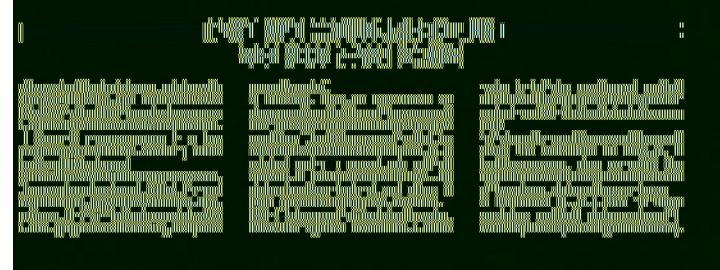
- 1. Install a new star washer (2) and filter (3)
- 2. Lubricate o-rings (13) and (9) for the piston (12) and install.
- NOTE: Be sure the teflon seat in the piston (12) is iree of nicks, scratches, and

imperfections. Any imperfection will increase the lockup pressure above the desired setting, or the lockup pressure will slowly creep to a higher pressure after the initial lockup is attained.

- 3. Gently place the piston (12) into the cap (14). Place the spring (11) onto the piston and any shims (10) onto the spring.
- 4. Assemble the cap (with piston, spring, and shims), onto the body (8), and secure snugly.

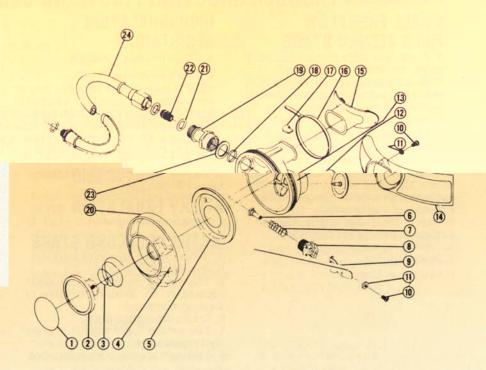






LEXAN DEMAND REGULATOR

NO.	CAT. NO.	DESCRIPTION
1	2004-3	Decal
2	3004-1	Purge button
3	19-4006-12	Spring, purge button
4	3004P-2	Bezel
5	4006-13	Diaphragm
6	4006-21	Poppet Assy.
7	19-978-10	Spring, low pressure
8	1-3004-8RH	Lever support
9	19-4006-9	Lever, demand valve
10	19-4000-9	Screw
11	19-4006-17	Washer
12	4006-15	Valve, exhalation
100	3 3004P-1	Case
	4 4006-8	Exhaust Tee
	3786-7	Mouthbit
	3786-9	Tie
17	7 19-3004-9	Lock
	G907A	O-ring (was 3004-6)
15		Housing, demand valve
20	19-3004-5	Ring, reinforcing
2	G010D	O-ring (was 1322-21)
	2 29-4006-20	
23	3 1-3004-12	Washer
24	4 3809-50-31	Hose assembly, includes o-rings





SR 2004P/SRB 2005 REGULATOR

LEXAN SECOND STAGE DEMAND REGULATORS FOR JSBR 2004P

DISASSEMBLY

Any time from Stings are knowned to rightning, two wometwo atmost on coold to provent cracking the plants forming

A. Harmowa the protecting local (17)

Z. Remove the basel (4) and the deeptr agmit (iii)

3. Admiry's screen (10), and the exhaust for the

6. With a 114 and served on the sever support (b) it the immer of lexast caus 153, remove the Several valve registry (TIL rating a 137% such common NOTE for hor published octain on lexan body during this appealant.

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2. Coun all melas parts to write visuous

a trispect all parts for damage a

cracking. Pay special attention to care in

ASSEMBLY

 Using self-tapping surew (10), preforead the low low pressure seat storm assembly the low or three turns.

 Place the loss-pressure spring (7) over the popper arisemply lift and pipes it seek slot slowed on a stress warshipple.

 Place leaster (11) over sett troping cores (10) and place the screw in the hote or the back assessed (8).

t. Lewist this level support (II) onto this council (I) and yearest assumbly list under that the draw onto the store Turn it been

8. Compare this level chi in a new level of

is. Turn the reculting essentially on side down and utility the decrease value (see) its

7. Tughtum that some (100 desert High), holding the view assembly with the demand valve them context (472). (I)

f. Place the resulting lementity or the stress in the Month Mage care (12) I heat of the prompt (III) from the outside of the case, wood the threads of the love support property.

att Place the waster citie with outer flange cupped autwords around the o-citie 1180 13. little the domains valve housing 1160

T2. Moleting the leaves support assumply with a 374 high support from the minds former the amount valve beginning to 70 m. The min the min the min places of the min the min places of the min the min places of the min the min the min places.

13. Cublicate the principal (21) and install it

ta. Screen the phonostable critics (775) and the sectional value becoming Teleprone learn (85) while turning aritics to avoid outliers

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ADJUSTING

NOTE: The Benth adjustments can be seen and a paint of water on the regardence and and set of water or the regardence and and the better of water or the paint of the best of the set of the paint of the best of the paint of

SYA 4/01), adjust the second stage adjustable orifice inward until no air escapes from the second stage. How far in the orifice is adjusted depends on second stage use. Just barely stop the bubbles for a primary regulator, but adjust further in on an octopus second stage to prevent free flows.

NOTE: Adjustable orifice (22) should be turned only when lever (9) is depressed to prevent damaging the poppet face (6) with the sharp cutting edge of the orifice (22).

2. After setting the spring tension, the lever should be set so that it just touches the diaphragm when assembly of the

accodd allage (a completed, if the level to up hegs, a pateolical tips have proteen explored the level of the liberations a heartening or the machines per harmonic of that requirems have an expression

height. (See figure 1).

4. To change the lever height, insert the slot on the tool onto the lever just below the bend point. (See figure 2).

5. Move the lever off of the stop ears of the lever support and bend the lever with the thumb using the adjusting tool to hold the lever. Apply all bending force on the lever outboard of the adjusting tool towards

.. lever tin . Never hend lever at the pivot support.

6. Check the lever height.

 Continue to bend with the thumb and check the lever height until the lever is the same height as the tool thickness. Hotel een volumt totel (17) finitifs and total mount time box.

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10 Place your minits in the specifing in the sension for 100 and empty it over the

with a screw (10) and washer (11).

11. Check the inhalation resistance of the regulator by slowly submerging it in water, purge downward. Air should start to flow before water level reaches the mouth piece.

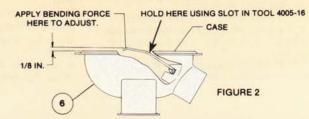
12. Turn off the air and purge the regulator.

13. With the regulator still on the tank, try to ale on the regulator. No air should enter the second stage.

14. If air enters the second stage, check for leaks around the exhaust valve and diaphragm.



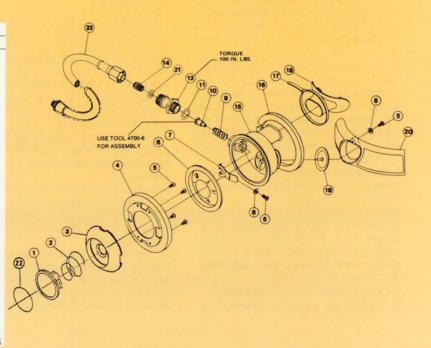
FIGURE 1





SRB 2004P REGULATOR

NO.	CAT. NO.	DESCRIPTION
	SRB 2004	DEMAND REGULATOR
1	3004-1	PURGE BUTTON
2	4006-12	SPRING, PURGE BUTTON
3	3004-2	BEZEL, PURGE BUTTON
4	2-4006-1	COVER
5	4000-9	SCREW
6	4006-13	DIAPHRAGM
7	19-4006-9	LEVER, DEMAND VALVE
8	9-4006-17	WASHER
9	978-10	SPRING
10	4006-21	STEM ASS'Y.
11	G906A	O-RING (Was 4006-14)
12	1-4006-19	HOUSING, DEMAND VALVE
13	G011B	O-RING (Was 3329-6)
14	29-4006-20	VALVE SEAT
15	2-4006-5	CASE, ASS'Y.
16	3840-3B	RING, RETAINING
17	3786-9	CLIP
18	3786-7	MOUTH BIT
19	4006-15	VALVE, EXHALATION
20	4006-8	EXHAUST TEE
21	G010D	O-RING (Was 1322-21)
22	2004-3	DECAL
23	3809-50-3	HOSE ASS'Y, INCLUDES O-RINGS



ASSEMBLY AND MAINTENANCE SRB 2004 "BRASS" DEMAND REGULATOR

DISASSEMBLY...

- 1. Remove the bezel retaining ring (16) by inserting a screw driver in the groove provided and gently prying down and out.
- 2. Remove the front cover (4) and the diaphragm (6).
- 3. While depressing the lever (7) unscrew the demand valve housing (12).
- 1. Pre-thread the poppet stem assembly (10) two or three threads using the self-tapping screw (5), then remove screw.
- 2. Place the poppet assembly face down on your clean workbench.
- 3. Place the spring (9) on the poppet.
- 4. Place the washer (8) on the screw (5) and place it in the hole in the lever support.
- 5. Push the entire assembly down over the poppet stem and start to screw a couple of

- 4. Remove the exhaust Tee (20) and mouth bit (18)
- 5. Using the demand valve stem socket (4700-6), remove the Phillips head screw (5) from the end of the poppet assembly (10). Discard poppet assembly.
- 6. Remove the adjustable orifice (14) from the demand valve housing (12).
- 7. Clean all the metal components in the ultrasonic bath with a mild solution of white vinegar or equivalent.
- NOTE: Excessive time in white vinegar can cause peeling of chrome. Use the mild acid solution only enough to remove corrosion from the parts.
- 8. Wash with fresh water and dry.

ASSEMBLY...

turns into the shaft of the poppet.

- Compare the lever with a known good lever. If the geometry is bad, replace the lever.
- 7. Turn the assembly upside down and press on the poppet (10) with your thumb, insert the lever under the washer and screw.
- 8. Using tool 4700-6 and Phillips screw driver, completely tighten screw (5) until
- it bottoms on poppet assembly.

 9. Lubricate and install 0-ring (11) onto the demand valve housing (12).
- 10. Install the demand valve housing (12) onto the case assembly (15).
- 11. Lubricate the O-ring (24) with Dow Corning III and install it onto the adjustable orifice (14).
- 12. Push the adjustable orifice (14) into the demand valve housing (12).
- NOTE: At this point, do not engage threads.



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SMALL FREE FLOW From Second Stage

A. Check first stage output pressure; if proper, continue.

NOTE: If Sherwood Second Stage is being used as an octopus on another make of regulator, it must be readjusted for the different hose pressure of that make.

B. Check adjustment of the second stage using adjustable orifice tool (SYA4701).

 If unable to stop flow by adjusting orifice spring tension, disassemble second stage and inspect the seat for mechanical damage or foreign particles embedded in sealing surface.

Inspect the orifice cutting edge for mechanical damage and corrosion.

3. Clean or replace as necessary.

4. Readjust orifice.

C. Check lever height.

HIGH INHALATION

A. Check first stage pressure.

B. Check adjustment of orifice.

NOTE: If second stage poppet is dirty or worn, orifice may have to be adjusted to such a point to stop bubbling that inhalation resistance is beyond acceptable range.

C. Check lever height using tool (4005-16).

D. Inspect diaphragm for stiffness. Replace if necessary.

STICKY EXHALATION

A. Replace exhalation valve.

WATER IN SECOND STAGE

A. A deteriorating exhalation valve.

B. A damaged diaphragm.

C. The sealing surface in the lexan housing at the exhalation valve or diaphragm damaged.

D. Cracks in Lexan housing.

E. Bent exhaust valve support in brass style second stage.

F. Leaking braze joint in brass 2nd stage.

RESISTANCE ONLY AT GREATER DEPTHS OR LOW TANK PRESSURE.

A. Replace first stage inlet filter.

NOISY INHALATION (HUMMING OR BUZZING)

Caused by spring mass resonance. Depending on what parts are resonating one or more of the following actions will stop the buzzing.

A. If in first stage — Rotate main spring end to end and reinstall.

- Install a new piston.

- Install new spring.

B. If in second stage — Rotate poppet spring end to end.

- Install new poppet and orifice.

- Install new spring.



