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Tank Regulator
Assembly Guide

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General Maintenance and Cleaning

To clean your regulator, after every use blow off with air, or wipe down with a rag and 50/50 mix of water and alcohol.

To clean air filter, remove fill valve, 1x6.5mm buna o-ring, and air filter. Use alcohol to clean air filter and blow dry.

To lube your regulator disassemble as shown in fig. 3. Lube o-rings on spring stack floor, and piston only.

Tank Regulator Trouble Shooting

Problem:

1. Leak out of valve pin.
2. Air leak out of burst disc vent.
3. Inconsistent air regulation.
4. Air leak from air relief hole.
5. Excessive output pressure.
6. Not filling.

Solution:

1. Replace 004 D90 buna o-ring on valve pin as seen in fig. 3.
2. Replace burst disc ass seen in fig. 1 and fig. 2.
3. Un-clog air relief hole.
4. Replace internal o-rings on spring stack floor, and piston.
5. Replace reg seat assembly as seen in fig.3.
7. Repair, or replace fill valve.

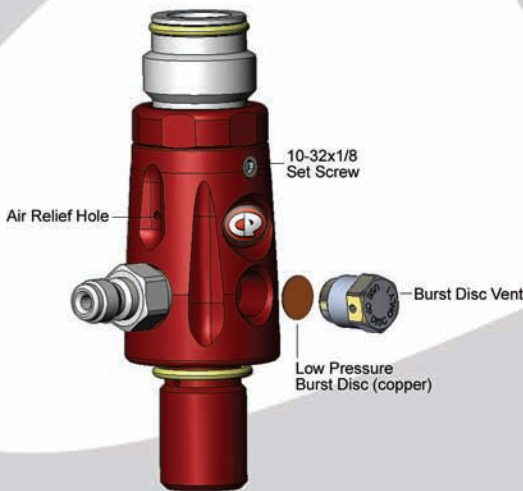


Fig.2

The Low Pressure burst disc is the disc located closest to the CP Jewel Sticker.

Low Pressure Burst Disc (copper)
Uninstall Guide

1. With 3/8 wrench remove burst disc vent.
2. Remove copper burst disc.
3. Replace any blown or damaged burst discs.

Low Pressure Burst Disc (copper)
Assembly Guide Fig.2

1. Install new burst disc.
2. Using a torque wrench install burst disc vent and torque to 110 in/lbs.
3. If using original burst disc reinstall with bubble in the center of the burst disc facing up and repeat step 2.

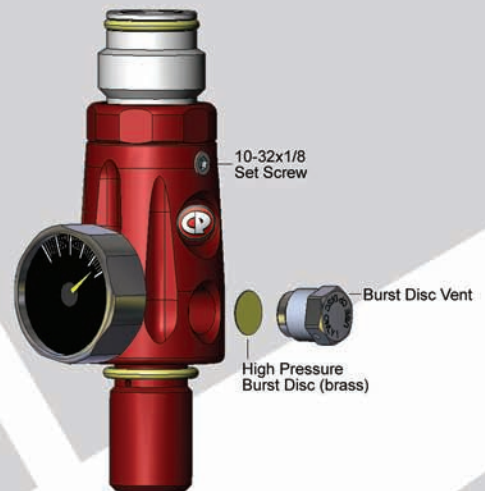


Fig.1

The High Pressure burst disc is the disc located farthest from the CP Jewel Sticker.

High Pressure Burst Disc (brass)
Uninstall Guide

1. With 3/8 wrench remove burst disc vent.
2. Remove brass burst disc.
3. Replace any blown or damaged burst discs.

High Pressure Burst Disc (brass)
Assembly Guide Fig.1

1. Install new burst disc.
2. Using a torque wrench install burst disc vent and torque to 110 in/lbs.
3. If using original burst disc reinstall with bubble in the center of the burst disc facing up and repeat step 2.

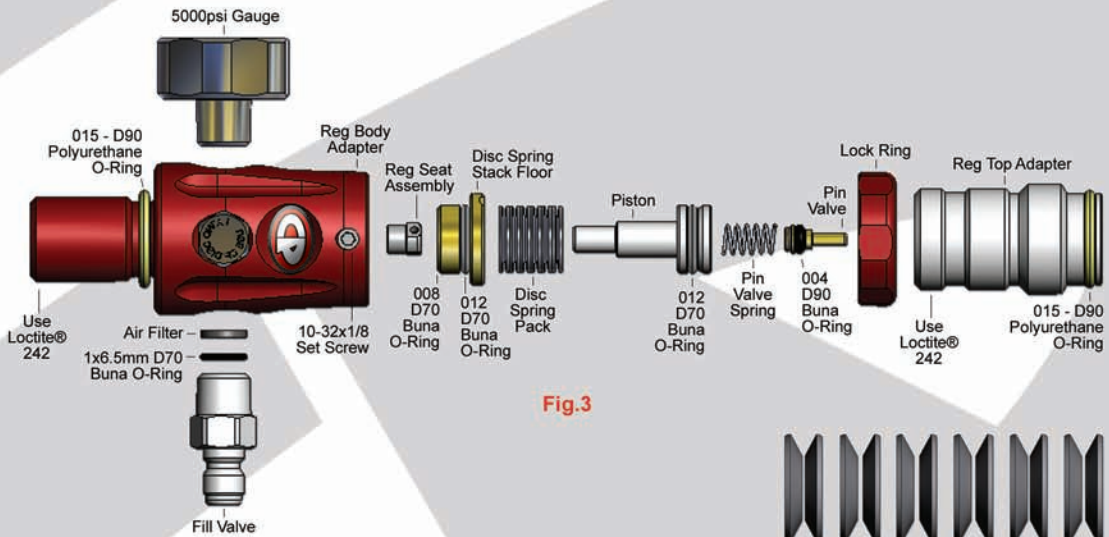


Fig.3



Fig.4 - Disc Spring Pack

Tank Regulator Assembly Guide

Disassembly Guide

1. Fully de-gas the compressed air tank.
2. Press on valve pin with fingers to make sure there is no air remaining in the air tank.
3. Loosen the 2 10-32x1/8 set screws located near the lock ring.
4. Using a 15/16 wrench turn lock ring counter clock wise.
5. Continue turning nut until reg top becomes loose.
6. Remove reg top from reg body being careful not to loose any of the disc springs in the disc spring pack.
7. Remove valve pin and spring from reg top.
8. Remove piston and disc spring pack.
9. Remove disc spring stack floor.
10. Remove regulator seat assembly.
11. Replace or repair any worn or damaged parts.

Assembly Guide

1. Insert reg seat assembly with seat facing down into reg body adapter.
2. lightly lube the two o-rings on the spring stack floor (excess lube will plug the relief hole on reg causing in consistency in reg).
3. Orientate springs as seen in fig.4 and install disc spring pack on piston.
4. Grease o-ring on piston and install piston and disc spring stack into reg body adapter.
5. Put a small amount of Blue Loctite® 242 on bottom threads of the reg top.
6. Install reg top into reg body adapter.
7. Tighten the two 10-32x1/8 set screws located near lock nut.
8. With 15/16 wrench tighten lock nut.

Installing Fill Valve, and 5000psi Gauge

5000 psi Gauge:

1. Using Teflon tape, or other suitable thread sealer coat gauge threads.
2. Install gauge in any port opposing the CP jewel sticker.

Fill Valve:

1. Using Teflon tape, or other suitable thread sealer coat fill valve threads.
2. Install air filter.
3. Install 1x6.5mm D70 buna o-ring. Install fill valve in any port opposing the CP jewel sticker.