Use the DADCO Quick Disconnect Charging Nipple to charge 90.9 Series Gas Springs.

Bulletin No. B02111B

Comprehensive Guide

This service manual is a simple step-by-step maintenance guide for DADCO 90.9 Series Nitrogen Gas Springs. Proper repair requires careful examination of all component parts and replacement of any that are worn or damaged. All DADCO replacement parts are available from factory stock.

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Nitrogen Gas Spring repair varies slightly from model to model and by mode of operation (self-contained or linked). As you proceed through the basic steps outlined in this bulletin, take care to follow the instructions pertaining to your model. All DADCO Gas Springs are permanently marked with model number, serial number and repair kit number. Please refer to these numbers when performing repair work and when ordering replacement parts.
90.9 Series Nitrogen Gas Spring Repair Instructions

I. Exhausting Pressure

1. When exhausting pressure, position port spring horizontally with port up for safety.

2. Remove Port Plug (90.320.7) and Retain parts for use during reassembly.

3. Replacing the face and handle of the valve.

4. Alter all gas pressure is exhausted, fit the valve with the required pressure and close the valve and with valve.

5. After all gas pressure is exhausted, fit the valve with the required pressure and close the valve and with valve.

6. Retain rod for inspection.

CAUTION: Always wear safety goggles when performing maintenance work.

II. Port Maintenance

1. To remove Rod and Cartridge Assembly from Multi-Stage (90.320.2) to seal off gas. Pull entire assembly out of the tube. The rod can be visibly seen at the base of the tube.

2. Open Female Thread into gas spring, and close off gas. The rod will extend and retract into tube manually.

3. Inspect the gas spring when exhaust is in the cylinder. Place assembly oil.

4. Remove C-style Retaining Ring from the rod. Be careful not to remove the rod from cartridge assembly from charging nipple. The rod will extend and retract into tube manually.

5. Inspect finishing of rod for scratches or gouges. If not, try depressing valve button to facilitate full rod extension.

6. Place the cartridge down further into the tube.

7. Tap with a soft mallet until top of Dust Removal Sleeve is slightly below retaining ring groove. For best results locate tool near end of o-ring.

8. Lubricate the inside wall of the tube with entire contents of the bottle of assembly oil.

9. Place rod and cartridge assembly into the tube. To release any back pressure, depress compact valve. Position top of cartridge just below retaining ring groove. Do NOT force the cartridge down further into the tube.

10. Insert C-Style Retaining Ring (90.285.x) into charging ring groove using C-Style Retaining Tool (90.331.x) or standard bench tools. Be sure C-Style Retaining Ring is fully seated in retaining ring groove.

11. Pipe gas spring back, making sure all connections are tight and that gas spring rods are extended.

12. Attach the Cartridge Assembly Cone from Cartridge Starter Kit (90.335.x) onto rod. Slide Cartridge Assembly over the Cartridge Assembly Cone, making sure that the end of the valve is facing up. Place Cartridge Assembly Cap (90.335.x) over the Cartridge Assembly.

13. Open main valve on nitrogen tank.

14. Set desired charging pressure on regulator.