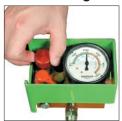
SLC.500 / SLC.800 Nitrogen Gas Spring Rail Lifter Repair Instructions

I. Exhausting Pressure



1. Exhaust nitrogen gas by opening the is relieved by manually using a 5/8" wrench for save components for bleed valve on the Common Control Panel (90.406.3).



retracting piston rod the 90.505.115 and a reassembly. into tube. If the rod will 14 mm wrench for the SLC Lifters have rod extensions (15 mm for of damage. Set aside for SLC.500, 25 mm for SLC.800) that will remain above cylinder mouth when exhausted.



2. Verify all pressure 3. Loosen Port Adapter 4. Remove Mount and 1. Stand lifter upright. not fully retract, release 90.508.115. Unthread remaining pressure. If still the Port Adapter and unsuccessful, STOP and wipe with a clean cloth. contact DADCO. **NOTE:** Inspect the adapter and replace if it shows signs reassembly. Check the port for deposits or burrs

and clean thoroughly.





Place Removal Sleeve (90.340.00750 for SLC.500. 90.341.00800 for SLC.800) over rod. Tap sleeve until Dust Cover (90.246.x) is loosened. Remove Dust Cover and discard.



2. Reposition the Removal Sleeve and continue tapping until Cartridge Assembly is slightly below retaining



end of c-ring.

4. Once hooked end Remove C-Style Retaining Ring (90.285.x) using C-Ring Removal Tool (90.356.SLN). Position hooked end of C-Ring Removal Tool below c-ring. For best results locate tool near either



of tool is firmly seated below c-ring, begin pushing it toward outside of the Tube Assembly. The handles will close naturally and the c-ring will be extracted as you complete this motion. Retain for use during reassembly.

III. Rod & Cartridge Removal



1. To remove rod and cartridge assembly, thread the T-Handle (90.320.x) into rod end



2. Pull entire assembly out of the Tube Assembly. Remove T-Handle.



3. Remove the Retainer Wear Ring (90.242.x) from the Rod Retainer (90.225.x).



4. Remove the two halves of the Rod Retainer. Clean Rod Retainer and Retainer Wear Ring, set aside for reassembly.



5. Tap or slide Cushion Collar Assembly (90.235.x) off rod from piston end and discard.

IV. Cleaning & Inspection



1. Slide the Cartridge Assembly (90.230.x) off of rod and discard.



2. Lightly polish rod 3. surface with an emery finish of the rod for any scratches or gouges. If the rod is damaged, it must be replaced.



Inspect Tube Assembly for damage. cloth (600 grit). Inspect Polish out any scratches at the mouth of the tube assembly. If damage to Tube Assembly is severe, it must be replaced. Wash, clean and dry the inside thoroughly.



4. Lubricate threads on the adapter and thread it into port.

V. Rod Sub Assembly

CAUTION: Before starting the reassembly process, be sure the repair area is clean. It is imperative that the gas spring rail lifter be free of all contaminants upon reassembly. If this precaution is not taken it may lead to premature failure of the rail lifter.



1. Position new Cartridge Assembly over rod with the wiper end marked "TOP" facing up. Slide cartridge down the rod toward piston end.



against rod safety ring contact DADCO. squarely



2. Tap new Cushion 3. Replace the two halves 4. Add Retainer Wear Collar Assembly onto of the Rod Retainer Ring. Apply extra oil rod from piston end using behind Cushion Collar to cushion collar seal, a soft rubber mallet or Assembly. If retainer the cartridge o-ring and arbor press. Seat collar will not install, STOP and inside of cartridge.



VI. Cartridge Replacement and Reassembly



1. Lubricate inside wall of 2. into Tube Assembly.



ring groove.



slightly below retaining Tool (90.350.00750) for the cartridge is past the lightly tap into groove. c-ring is fully seated in stroke length. retaining ring groove.



the SLC.500 or by hand c-ring. Make sure rod is for the SLC.800. Be sure extended to its proper





Place Removal 3. Insert the C-Style 4. Thread the T-Handle 5. Slide bottom half of 6. Slide top half of mount 7. Align mount, rod and tube with entire contents Sleeve (90.340.x) over Retaining Ring in the (90.320.x) into the end of mount on can below snap on can until it engages port adapter as pictured. of bottle of assembly oil. rod. Tap sleeve until retaining ring groove the Piston Rod. Pull up ring groove. Insert two- snap rings. Lift up on Place Rod Sub-assembly Cartridge Assembly is with C-Ring Installation on T-Handle until top of piece snap ring set and bottom half of mount until it too engages snap rings. Bolt top and bottom pieces together using the four original screws.



VII. Charging

NOTE: For best results, use DADCO's Charging Assembly which has a shut off valve and a quick disconnect at the end of the hose.



Panel (90.406.03) making are extended.



1. Pipe all gas lifters 2. Attach Charging 3. Open main valve on back to Common Control Assembly (90.310.040) the nitrogen tank. Set to quick disconnect filler sure all connections are valve on the control panel pressure regulator. tight and gas lifter rods and close shut-off valve.



desired pressure on the Slowly open shut-off valve on control panel and allow each lifter to reach desired charging pressure.



Close control panel shut-off valve and tank shut-off valve. Disconnect the charging assembly from the Common Control Panel.



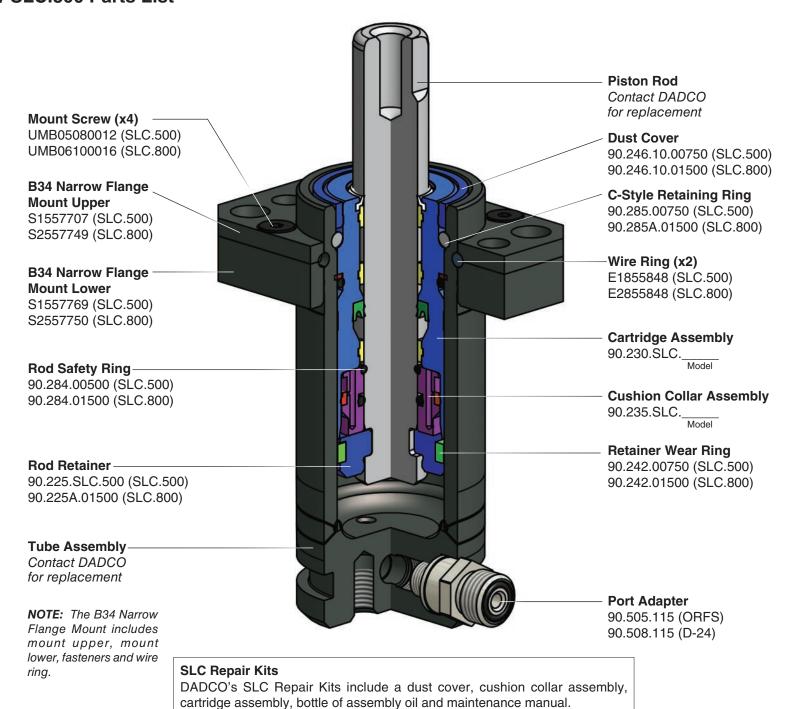
rubber mallet until top of with top of can.



VIII. Adjusting Pressure

5. Install new Dust Cover 1. To increase system 2. To release pressure, (90.246.x). Tap with soft pressure, set regulator open drain valve on the on nitrogen tank to control panel. Dust Cover rests flush desired level and fill system through control panel.





Repair Tools

C-Ring Removal Tool 90.356.SLN

To remove the C-Style Retaining Ring safely in a single controlled motion.



Removal Sleeve 90.340.00750 (SLC.500) 90.341.00800 (SLC.800)

To position the cartridge below the c-ring groove when assembling or disassembling SLC Series Nitrogen Gas Spring Rail Lifters.

Model

Part No.

SLC.500 SLC.RK.500 SLC.800 SLC.RK.800



C-Ring Installation Tool 90.350.00750

To insert the C-Style Retaining Ring into the retaining ring groove of the SLC.500.



T-Handle 90.320.10 (M10) 90.320.12 (M12) 90.320.16 (M16)

To remove the Piston Rod when disassembling and position correctly when reassembling.



Common Control Panel 90.406.03

The Common Control Panel is used to fill, drain and monitor the pressure of linked DADCO Nitrogen Gas Spring Rail Lifters from outside the die.



Use the DADCO Quick Disconnect Charging Assembly with a DADCO Common Control Panel for charging SLC Series Nitrogen Gas Spring Rail Lifter linked

Spring Rail Lifter linke systems. For more information contact DADCO.



DADCO

Nitrogen Gas Spring Rail Lifter Maintenance Instructions SLC.500 and SLC.800



Comprehensive Guide

This service manual is a simple step-by-step maintenance guide for DADCO's SLC.500 and SLC.800 Nitrogen Gas Spring Rail Lifters. 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.

NOTE: DADCO's SLC Nitrogen Gas Spring Rail Lifters are permanently marked with model number, serial number and repair kit number. Please refer to these numbers when ordering replacement parts.



43850 Plymouth Oaks Blvd.
Plymouth, Michigan USA 48170
734.207.1100 • 800.323.2687
fax 734.207.2222
www.dadco.net