Nitrogen Gas Spring Repair Instructions CAUTION: Always wear safety goggles when performing any maintenance work.

I. Exhausting Pressure



Self-Contained Mode

When exhausting pressure, position the gas spring with the port up for safety.





2S. Remove the Protective Screw, (90.505.110 or 90.607.110). Retain parts for use during reassembly.



3S. Keeping face and hands clear of the port, use the Valve Bleed Tool, (90.360.4), or Port Servicing Tool, (90.320.8), to depress the Compact Valve stem. (90.260), or Cartridge Valve, (90.265). Cover the port with a cloth to absorb discharge.



4S. After all of the gas pressure is exhausted, be sure that the piston rod will freely retract into the tube manually. If not, try depressing the valve again. It still unsuccessful stop and contact DADCO.

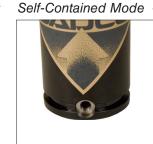


1L. Exhaust nitrogen gas by opening the bleed valve on the

Linked Mode



2L. Verify that all pressure is 3L. Unthread the service fitting relieved by manually retracting and wipe with a clean cloth. the piston rod into the tube. If Proceed to "II. Port the rod will not fully retract Maintenance" Linked Mode release the remaining step 1L. pressure. If still unsuccessful stop and contact DADCO.



II. Port Maintenance

1S. Generally the valve does not need replacing. Only if the valve appears damaged, is leaking pressure or sticking proceed to step 2S, otherwise leave the valve undisturbed



2S. Remove the Compact Valve, (90.260), or Cartridge Valve, (90.265), by unscrewing it with the Port Servicing Tool, (90.320.8).

Linked Mode



3S. Thread a new Compact Valve, (90.260), or Cartridge Valve (90.265), into the port until it fits snugly on the seat. Avoid over torquing the valve.

V. Inspection & Cleaning



1L. Check the port for deposits or burrs and clean thoroughly. Inspect the service fitting and replace if it shows signs of damage. Lubricate threads and seals on the fitting and thread the service fitting into the gas spring port.



 Stand the gas spring upright. Place a removal sleeve, (90.340.x), longer than the stroke over the rod. Tap the sleeve until the Dust Cover, (90.246.U.x), is loosened. Remove the Dust Cover and

III. C-Ring Removal





2. Reposition the DADCO Removal Sleeve and only continue tapping until the rod cartridge assembly is slightly below the retaining ring



3. Remove the C-style Retaining Ring, (90.285.x.), using a C-Ring Removal Tool, (90.356 or 90.355). Position the hooked end of the tool below the c-ring. For best results locate the tool nea either end of the c-ring.



4. Once the hooked end of the tool is firmly seated below the c-ring, begin pushing it toward the outside of the gas spring can. The handles will close naturally. and the c-ring will be extracted as you complete this motion. For a detailed explanation of c-ring removal see bulletin B15127A.



IV. Rod & Cartridge Removal

 To remove the Rod and Cartridge Assembly select the proper common rod end service thread (M6, M8 or M10) and thread the T-Handle (90.320.M) into the rod end. Pull the entire assembly out of the tube. The spring body can be held in a vise (with soft jaws) while pulling out the

and proceed to "III. C-Ring

2. Once the cartridge and rod are removed from the Tube Assembly slide the cartridge off the rod and discard Retain the rod for inspection and reuse. Based on the model you are repairing proceed to "V. Inspection and Cleaning, Step 1A., 1B. or 1C.

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

VI. Cartridge Replacement and Reassembly



1A. Inspect the Rod and 1B. Inspect the Rod and Spacer for wear. UX.0800 -Spacer for wear. UX.6600 UX.4600 models with stroke UX.9600 models with stroke lengths up to 125 mm have a lengths up to 125 mm have a black or whie spacer. There is black or white spacer. There is a split designed into the spacer. a split designed into the spacer. If there are any additional If there are any additional splits, cracks or excessive wear splits, cracks or excessive wear then the spacer needs to be then the spacer needs to be replaced. Contact DADCO for replaced. Contact DADCO for more information. more information

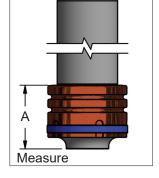




UX.6600 - UX.9600 models with stroke lengths 150 mm and above, the collar/dampener is black and looks like a series of loops. If there are any splits. cracks or excessive wear then the collar needs to be replaced. To verify the condition, measure the Rod Collar/Dampener height and refer to the chart for the A measurement. If the height is out of tolerance Contact DADCO for repair or replacement. If only the wear band is damaged, it may be

replaced. Contact DADCO for

replacement part.



	IVIOGOI	10.5 11111					
		±0.02"					
	0800	47.25					
	0000	1.860					
	1000	44.4					
	1000	1.748					
	1600	39.4					
	1000	1.551					
	2600	55.6					
	2000	2.189					
	4600	64.8					
	4000	2.551					
	6600	78.8					
	0000	3.102					
	9600	86.75					
	9000	3.415					
	20000	65.0					
	20000	2 559					



2. Lightly polish the rod surface with an emery cloth (600 grit). Inspect the finish of the rod for any scratches or gouges. If the rod is damaged it must be



3. Inspect the Tube Assembly for any damage, especially around the mouth of the Tube Assembly. Lightly polish out any scratches at the mouth of the Tube Assembly to avoid damaging seals during the reassembly process. If damage to the Tube Assembly is severe it must be replaced Wash, clean and dry the inside thoroughly.



repair kit. The repair kit number needed is laser marked on the back of the Tube Assembly. NOTE: Repair kits are not interchangeable among models.



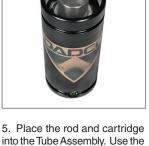
2. Thread Assembly Cone (90.331.x) from Cartridge Starter Kit (90.335.x) onto rod. Slide Cartridge Assembly making sure that the wiper end marked "TOP" is facing up. Place Cartridge Assembly Cap (90.330.x) from Cartridge Starter Kit (90.335.x) on top of Cartridge Assembly.

3A. While holding the cartridge vertically tap the Assembly Cap to drive the cartridge down the

rod. Be careful not to force the over the Assembly Cone, cartridge at an angle as the seal could become damaged.

3B. The cartridge is now below the Assembly Cone. Remove Assembly Cone from the rod.

4. Lubricate the inside wall of the tube with all of the DADCO Assembly Oil.



into the Tube Assembly. Use the Valve Bleed Tool, (90.360.4), or Port Servicing Tool, (90.320.8), to depress the needle valve to release any back pressure. The Assembly Cap (90.330.x) may be used to drive the rod and cartridge assembly into the tube assembly. Position the top of the cartridge just below the retaining ring groove.



6. Insert the C-Style Retaining Ring in the retaining ring groove using a DADCO C-Ring Installation Tool, (90.351.00500 or 90.352). Be sure the C-Style Retaining Ring is fully seated in the retaining ring groove.





7. Select the proper common rod end service thread (M6, M8 or M10) and thread the T-Handle (90.320.M) into the end of the piston rod. Pull up on the T-Handle until the top of the cartridge is completely past the c-ring. The rod must seat the cartridge assembly fully before charging. The housing should be flush with the end of the cylinder. Make sure the rod is extended to its proper

extension.)



stroke length. (Depress the

needle valve to facilitate full rod





VII. Charging

1S. Thread the Quick Disconnect Filler Valve, (90.310.143 or 90.310.111). into the port of the gas spring. Connect the female end of the charging assembly to the charging nipple. The DADCO Pressure Analyzer, (90.315.5), can also be used for charging, discharging and gauging pressure in self contained gas

Self-Contained or Linked



Pipe all gas springs back to the control panel, making sure that all connections are tight and that gas spring rods are



extended.



2L. Attach Charging Assembly (90.310.040) to the quick disconnect filler valve on the control panel.

Quick Disconnect at the end of the hose.



NOTE: For best results, use the DADCO Charging Assembly which has a shut-off valve and

of 150 bar (2175 psi).

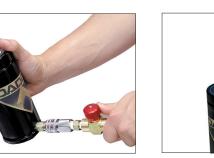
X. Linked Systems



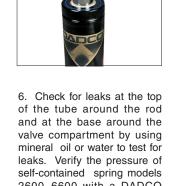
3. Open the main valve on the nitrogen tank. Set the desired charging pressure on the regulator. Do not exceed the maximum charging pressure

4. Slowly open the shut-off valve at the end of the charging hose and allow the gas spring to reach the desired charging pressure.

Self-Contained Mode



been charged to the desired pressure, CLOSE THE HOSE SHUT-OFF VALVE AND TANK SHUT-OFF VALVE. Disconnect the charging assembly from the charging nipple. The small amount of nitrogen trapped between the shut-off valve and filler valve will bleed off as you disconnect the fitting.



Load Cell and an arbor press.



2600-6600 with a DADCO Load Cell using a DADCO Portable Test Stand, (90.305.3). Verify the pressure of selfcontained spring models 9600 and 20000 using a DADCO



7S. Verify the pressure with a DADCO Load Cell using a Portable Test Stand (90.305.3) or an arbor press. NOTE: If spring is linked mode, then a DADCO Pressure Analyzer, (90.315.5), may be used to verify pressure and must remain in place during



8S. Securely re-install the Protective Screw, (90.505.110 or 90.607.110).



9. Install the new Dust Cover, (90.246.U.x). Tap with a soft mallet until the top of the Dust Cover rests flush with the top of the can. The rod wiper should





VIII. Adjusting Gas Spring Pressure

1. To increase the spring pressure, depress the valve pressure, thread the Quick Disconnect Filler Valve, (90.310.143 or 90.310.111), Bleed Tool, (90.360.4), or a DADCO Pressure Analyzer, into the port, set the regulator to the desired pressure and fill. (90.315.5). DADCO's Pressure Analyzer (90.315.5), may also be used

to adjust pressure.



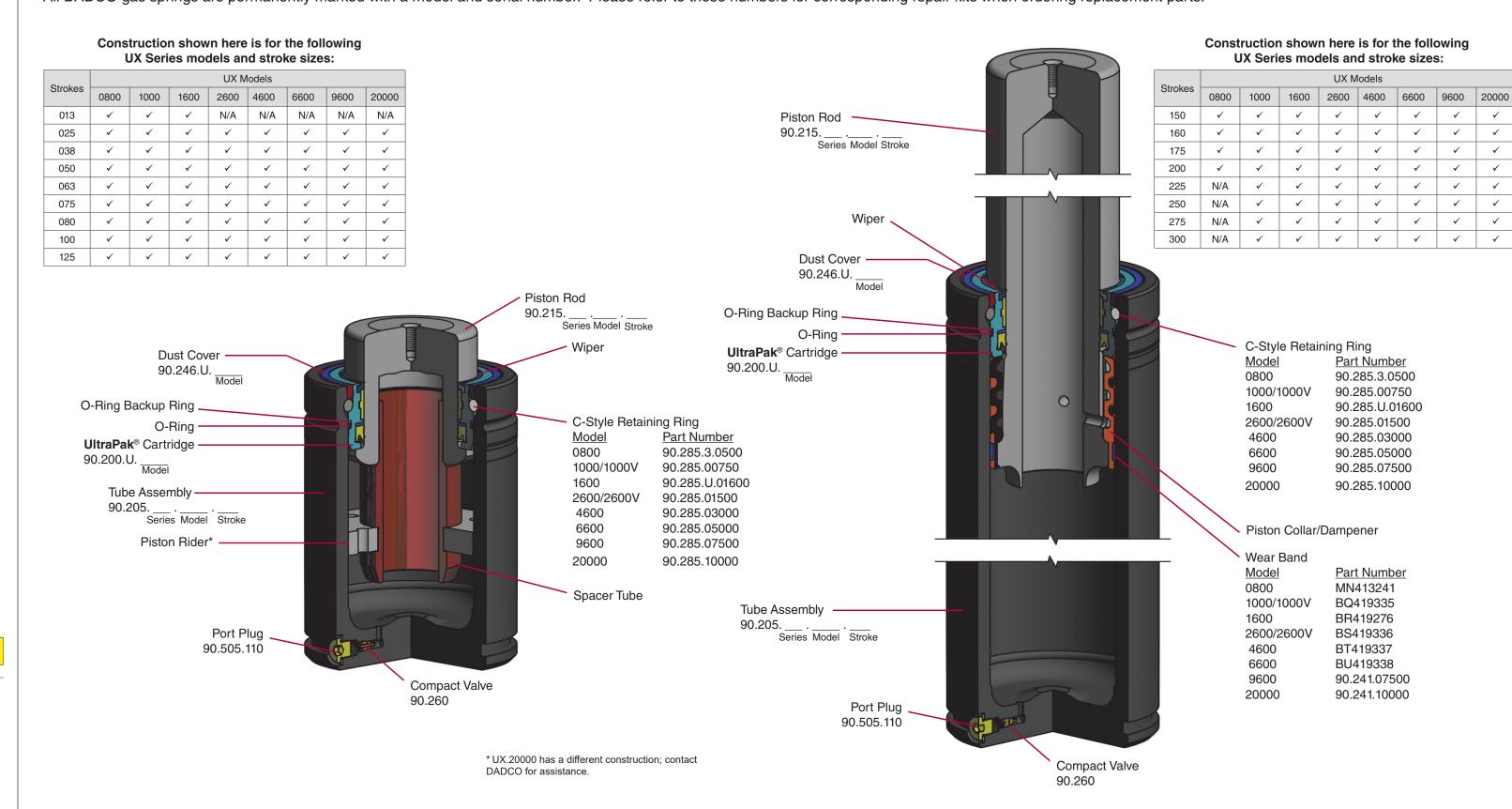
stem using a DADCO Valve

should not be linked with the valve installed. 2. To decrease the gas spring

After testing all springs for leaks, the open-flow springs are ready to be re-linked in the system. If possible, once the springs are all linked back to the control panel, leave the system to sit fully charged overnight. If pressure has dropped indicating a leak verify that each connection is tight and test each fitting for a leak. Contact DADCO for information on converting a self-contained DADCO Nitrogen Gas Spring to a linked system. NOTE: DADCO U/UK/UH/UT/UX Series Nitrogen Gas Springs

UX Series Parts List

All DADCO gas springs are permanently marked with a model and serial number. Please refer to these numbers for corresponding repair kits when ordering replacement parts.



Repair Kits

Select your repair kit from the list below. Please note, repair kits are not interchangeable. Verify that you have the proper repair kit by reviewing the laser mark on the cylinder you are repairing.



Kit Number	Models					
90.108.00400	U.0400, UH.0400					
90.108.00600	U.0600, UH.0600					
90.108.00800	U.0800, UH.0800					
90.108V.00800	U.0845, UK.0800, UX.0800					
90.108.01000	U.1000, UH.1000, UT.1000, UX.1000					
90.108V.01000	UK.1000, UX.1000V					
90.108.01200	U.1200					
90.108.01600	U.1600, UH.1600, UX.1600					
90.108V.01600	UK.1600					
90.108.02600	U.2600, UH.2600, UT.2600, UX.2600					
90.108V.02600	UK.2600, UX.2600V					
90.108.04600	U.4600, UH.4600, UT.4600, UX.4600					
90.108.06600	U.6600, UH.6600, UH.6600, UT.6600, UX.6600					
90.108.09600	U.9600, UT.9600, UX.9600					
90.108.20000	U.20000, UX.20000					

A Repair Kit includes a fully assembled **UltraPak®** cartridge, dust cover, a bottle of assembly oil and a maintenance manual.

Service Tools

Refer to the opposite side of this bulletin for a comprehensive list of tools used to repair these Nitrogen Gas Springs.

Bulletin No. B18109B

Comprehensive Guide

This service manual is a simple step-by-step maintenance guide for DADCO's **Ultra Force®** and **Ultra Force Extended**® Nitrogen Gas Springs Series: U, UK, UH, UT, and UX.

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.

Typically, DADCO Nitrogen Gas Springs can be rebuilt in less than ten minutes by replacing only one part, the factory pre-assembled cartridge assembly.

After reviewing this maintenance guide, if you

questions please contact DADCO for assistance.

require any additional training or have any

43850 Plymouth Oaks Blvd.

Plymouth, Michigan 48170 USA

1.734.207.1100 • 1.800.323.2687

Toll Free: 1.800.DADCO.USA

Fax: 1.734.207.2222

www.dadco.net

Note: All DADCO gas springs are permanently marked with model and serial number. Please refer to these numbers for corresponding repair kits and when ordering replacement parts.

All DADCO bulletins and catalogs are available for download from our web site, www.dadco.net.

for **Ultra Force**® and **Ultra Force Extended®** U Series / UK Series / **UH Series / UT Series / UX Series**

DADCO

Nitrogen Gas Spring

Maintenance Instructions

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Nitrogen Gas Spring Repair Instructions

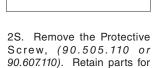
CAUTION: Always wear safety goggles when performing any maintenance work.

I. Exhausting Pressure

Self-Contained Mode



1S. When exhausting pressure, position the gas spring with the port up for safety. use during reassembly.



Linked Mode



clear of the port, use the Valve Bleed Tool. (90.360.4), or Port Servicing Tool, (90.320.8), to depress the Compact Valve stem, (90.260), or Cartridge Valve, (90.265). Cover the port with a cloth to absorb



4S. After all of the gas pressure is exhausted, be sure that the the tube manually. If not, try depressing the valve again. I still unsuccessful stop and contact DADCO.



 Exhaust nitrogen gas by opening the bleed valve on the piston rod will freely retract into control panel.



Verify that all pressure is relieved by manually retracting the piston rod into the tube. If the rod will not fully retract release the remaining pressure. If still unsuccessful

stop and contact DADCO.



3L. Unthread the service fitting and wipe with a clean cloth. Proceed to "II. Port Maintenance" Linked Mode



II. Port Maintenance

1S. Generally the valve does not need replacing. Only if the valve appears damaged, proceed to step 2S, otherwise leave the valve undisturbed and proceed to "III. C-Ring



Valve, (90.260), or Cartridge Valve, (90.265), by unscrewing is leaking pressure or sticking it with the Port Servicing Tool, (90.320.8).

III. C-Ring Removal

discharge.



3S. Thread a new Compact 1L. Check the port for deposits Valve, (90.260), or Cartridge or burrs and clean thoroughly. Valve (90.265), into the port Inspect the service fitting and until it fits snugly on the seat. replace if it shows signs of Avoid over torquing the valve. damage. Lubricate threads and seals on the fitting and thread the service fitting into the gas

spring port.



 Stand the gas spring upright. Place a removal sleeve, (90.340.x), longer than the stroke over the rod. Tap the sleeve until the Dust Cover. (90.246.U.x), is loosened. Remove the Dust Cover and



2. Reposition the DADCO Removal Sleeve and only continue tapping until the rod cartridge assembly is slightly below the retaining ring groove.





Remove the C-style Retaining Ring, (90.285.x.), using a C-Ring Removal Tool, (90.356 or 90.355). Position the hooked end of the tool below the c-ring. For best results locate the tool near either end of the c-ring.



tool is firmly seated below the c-ring, begin pushing it toward the outside of the gas spring service thread (M6, M8 or the rod and discard. Retain the can. The handles will close naturally, and the c-ring will be extracted as you complete
Pull the entire assembly out of this motion. For a detailed the tube. The spring body can explanation of c-ring removal be held in a vise (with soft jaws) see bulletin B15127A.



Cartridge Assembly select the proper common rod end M10) and thread the T-Handle (90.320.M) into the rod end while pulling out the assembly.



4. Once the hooked end of the 1. To remove the Rod and 2. Once the cartridge and rod are removed from the Tube Assembly slide the cartridge off rod for inspection and reuse.

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

V. Cleaning & Inspection



1. Lightly polish the rod surface 2. Inspect the Tube Assembly with an emery cloth (600 grit). for any damage, especially Inspect the finish of the rod for around the mouth of the Tube any scratches or gouges. If the Assembly. Lightly polish out rod is damaged it must be any scratches at the mouth replaced. of the Tube Assembly to avoid damaging seals during the reassembly process. If



 Choose the appropriate repair kit. The repair kit number needed is laser marked on the back of the Tube Assembly. NOTE: Repair kits are not interchangeable among



VI. Cartridge Replacement and Reassembly

Cartridge Starter Kit (90.335.x) Assembly Cone from the rod.

on top of Cartridge Assembly.



2. For applicable sizes, thread 3A. While holding the cartridge, Assembly Cone (90.331.x) from onto rod. Slide Cartridge Assembly over the Assembly is facing up. Place Cartridge 3B. The cartridge is now below Assembly Cap (90.330.x) from the Assembly Cone. Remove



vertically tap the Assembly Cap Cartridge Starter Kit (90.335.x) to drive the cartridge down the rod. Be careful not to force the cartridge at an angle as the Cone or rod, making sure that seal could become damaged.





the tube with all of the DADCO Assembly Oil.



of the cartridge just below the

retaining ring groove.

into the Tube Assembly. Use the Port Servicing Tool, (90.320.8), may be used to drive the rod groove. and cartridge assembly into the tube assembly. Position the top



4. Lubricate the inside wall of 5. Place the rod and cartridge 6. Insert the C-Style Retaining Ring in the retaining ring Valve Bleed Tool, (90.360.4), or groove using a DADCO C-Ring Installation Tool, (90.352 or



rod end service thread (M6. M8 or M10) and thread the T-Handle (90.320.M) into the to depress the needle valve 90.352.10000). Be sure the end of the piston rod. Pull up to release any back pressure.
C-Style Retaining Ring is fully on the T-Handle until the top of the c-ring. The rod must seat the cartridge assembly fully before charging. The housing should be flush with the end of the cylinder. Make sure the rod is extended to its proper stroke length. (Depress the needle valve to facilitate full rod extension.)

NOTE: For best results, use the DADCO Charging Assembly which has a shut-off valve and Quick Disconnect at the end of the hose.

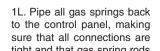
Self-Contained Mode

VII. Charging



90.310.143 shown.

1S. Thread the Quick Disconnect Filler Valve, (90.310.143 or 90.310.111). into the port of the gas spring. Connect the female end of the charging assembly to the charging nipple. The DADCO Pressure Analyzer. (90.315.5). can also be used for charging, discharging and gauging pressure in self contained gas springs.



damage to the Tube Assembly

is severe it must be replaced.

Wash, clean and dry the inside

thoroughly.

Linked Mode



tight and that gas spring rods are extended.



control panel.



Attach Charging Assembly (90.310.040) to the quick disconnect filler valve on the



nitrogen tank. Set the desired maximum charging pressure pressure. of 150 bar (2175 psi).



 Open the main valve on the
 Slowly open the shut-off valve at the end of the charging charging pressure on the hose and allow the gas spring regulator. Do not exceed the to reach the desired charging



been charged to the desired the charging assembly from the charging nipple. The small amount of nitrogen trapped



After the spring has pressure, CLOSE THE HOSE SHUT-OFF VALVE AND TANK SHUT-OFF VALVE. Disconnect between the shut-off valve and used to verify pressure and filler valve will bleed off as you must remain in place during disconnect the fitting.



testing.



6. Check for leaks at the top of the tube around the rod and at the base around the valve 2600–6600 with a DADCO Load or 90.607.110). compartment by using mineral Cell using a DADCO Portable oil or water to test for leaks. NOTE: If spring is linked mode, then a DADCO Pressure Analyzer, (90.315.5), may be up to 9600.



7S. Verify the pressure of Test Stand, (90.305.3). An arbor press may be used with a DADCO load cell for models

self-contained spring models Protective Screw, (90.505.110

VIII. Adjusting Gas Spring Pressure



9. Install the new Dust Cover, (90.246.U.x). Tap with a soft mallet until the top of the Dust Cover rests flush with the top of the can. The rod wiper should be visible.

 To increase the spring pressure, thread the Quick Disconnect Filler Valve, (90.310.143 or 90.310.111), into the port, set the regulator to the desired pressure and fill. DADCO's Pressure Analyzer, (90.315.5), may also be used to adjust pressure.



2. To decrease the gas spring pressure, depress the valve stem using a DADCO Valve Bleed Tool, (90.360.4), or a DADCO Pressure Analyzer, (90.315.5).

IX. Linked Systems

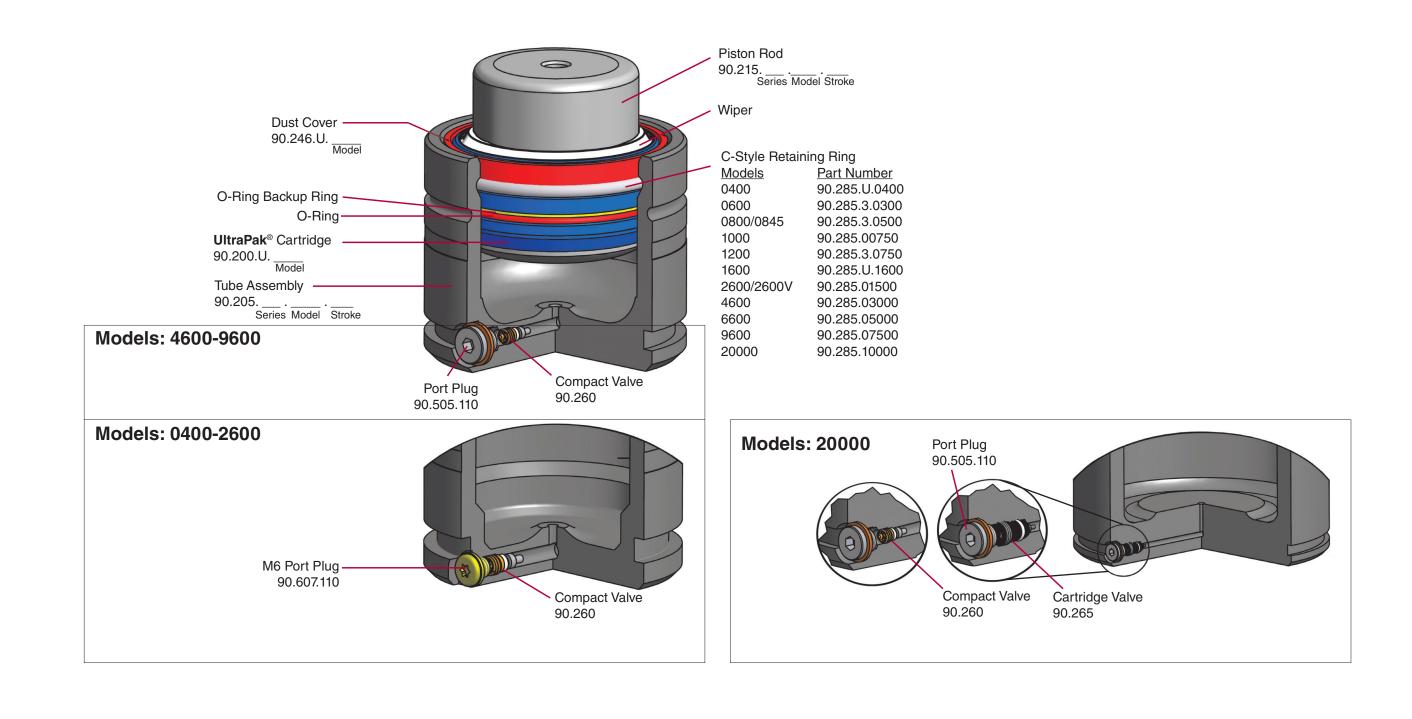
After testing all springs for leaks, the open-flow springs are ready to be re-linked in the system. If possible, once the springs are all linked back to the control panel, leave the system to sit fully charged overnight. If pressure has dropped indicating a leak verify that each connection is tight and test each fitting for a leak.

Contact DADCO for information on converting a self-contained DADCO Nitrogen Gas Spring to a linked system.

NOTE: DADCO U/UK/UH/UT/UX Series Nitrogen Gas Springs should not be linked with the valve installed.

U, UK, UH and UT Parts List

All DADCO gas springs are permanently marked with model and serial number. Please refer to these numbers for corresponding repair kits when ordering replacement parts.



Service Tools

			CI	harging			5	Standard Rep	pair	
Gas Spring Model	Port Size*	Charging Nipple	Charging Assembly	Analog Load Cell	Digital Load Cell	Removal Sleeve	C-Ring Removal Tool	T-Handle	Cartridge Starter Kit	C-Ring Installation Tool
U.0400 / UH.0400		90.310.143 / 90.310.111	90.310.041/ 90.310.044	90.300.0300	90.305.LC.05A	90.340.00400		90.320.M	90.335.00400	90.351.00400
U.0600 / UH.0600	M6 /		90.310.040/ 90.310.041/ 90.310.044	90.300.0500		90.340.00600	90.355		90.335.00600	90.351.00300
U.0800 /U.0845 / JK.0800 / UH.0800 / UX.0800	G 1/8			90.300.0750		90.340.00750			90.335.00750	90.351.00500
U.1000 / UK.1000 / UJ.1000 / UT.1000 / UX.1000 / UX.1000V				90.300.1000		90.340.01200	90.356		90.335.01000	90.350.00750
U.1200	M6 /	90.310.143		90.300.1200		90.340.01200	90.355		90.335.01200	90.351.00750
U.1600 / UK.1600 / UH.1600 / UX.1600		90.310.143 / 90.310.111		90.300.01500		90.340.01600			90.335.01600	90.352
U.2600 / UH.2600 / UK.2600 / UT.2600 / UX.2600	G 1/8			90.300.2600	90.305.LC.50A	90.340.01500	90.356		90.335.02600	
U.4600 / UH.4600 / UT.4600 / UX.4600		90.310.111		90.300.4600		90.340.03000			90.335.04600	
U.6600 / UH.6600 / UT.6600 / UX.6600	G 1/8			90.300.6600		90.340.05000			90.335.06600	
U.9600 / UT.9600 / UX.9600				90.300.9600		90.340.07500			90.355.9600	
U.20000 / UX.20000				90.300.20000		N/A			90.355.20000	

*Note: DADCO's U Series models U.0400 – U.2600 have an M6 port size and use Charging Nipple 90.310.143



To remove the C-style retaining ring safely in a

Port Servicing Tool

C-Ring Removal Tool

single controlled motion.

90.360.4 Use the DADCO Valve Bleed Tool to slowly discharge a spring to the desired pressure.

Valve Bleed Tool

T-Handle 90.320.M

To remove the C-style retaining ring safely in a

To remove the piston rod when disassembling and position correctly when reassembling.

C-Ring Installation Tool

90.340.____ To position the cartridge groove when assembling or disassembling a gas spring. Each model requires its specified removal sleeve.

C-Ring Installation Tool

To insert the C-style retaining ring

into the retaining ring groove.

90.350.____

90.351.____

Removal Sleeve

assembly below the C-ring

Standard Load Cell

Digital Load Cell

request bulletin B04106E.

90.300.____

DADCO.

When used with a Portable Test Stand, the Standard Load Cell gives precise measurement of gas spring charging pressure. Each model requires its specified load cell. For more information request bulletin B16119A.

The DADCO Digital Load Cell Meter can display force in Newtons, Kg or lbs. The

90.305.LC.50A (supplied with the connector) may be used to measure gas spring

force up to 50,000 lbs. Other digital load cell units are available, for more information

Quick Disconnect Charging Nipple: Self-Contained

Use the DADCO Quick Disconnect Charging Nipple to charge

Use the DADCO Pressure Analyzer to easily charge, discharge, and gauge

Use the DADCO Quick Disconnect Charging Assembly with the Filler Valve or Pressure Analyzer to charge self-contained gas springs, or with a DADCO

Control Panel for charging linked systems. For more information contact

the U.0400 nitrogen gas spring to maximum pressure.

90.305.BGA (Meter), 90.305.LC.50A (222 kN Load Cell)

DADCO recommends using the 90.310.044 Charging Assembly to charge

the pressure in DADCO's gas springs. This tool can take the place of

the Valve Bleed Tool, Standard Load Cell, Quick Disconnect Filler Valve,

and Portable Test Stand. For more information request bulletin B01133F

90.310.143 (M6 Port)

90.310.111 (G 1/8 Port)

DADCO Nitrogen Gas Springs.

DADCO Pressure Analyze

Quick Disconnect Charging Assembly

90.310.040 - Standard Option

90.310.044 - Self-Venting Capable

90.315.5



90.310.143

90.310.040

90.310.044

Mini Test Stand 90.305.2 90.305.2D

Use the Portable Test Stand in conjunction with a Standard Load Cell for precise measurement of gas spring force on contact. For more information request bulletin B08108B.



Cartridge Starter Kit 90.335.___

The Cartridge Starter Kit includes an Assembly Cap (90.330.__) and an Assembly Cone (90.331.__). The Assembly Cone is used to start the cartridge assembly onto the rod without damaging the seal, the Assembly Cap is used to set the cartridge at a proper depth for C-Ring installation.



C-Ring Removal Tool

single controlled motion.

90.352 To insert the C-style retaining ring into the retaining ring groove.

Portable Test Stand 90.305.3

precise measurement of gas spring force on contact. Excludes use with the U.9600 and U.20000. For more information contact DADCO.

Use the Portable Test Stand in conjunction with a Standard Load Cell for

