

# DADCO Tools Guide

Use this Tools Guide to help determine which tools to use in the charging or repair of DADCO nitrogen gas springs. DADCO also offers our most popular tools in boxed sets for our three classifications of nitrogen gas springs: Micro, Mini and Large Series. For more information request bulletin B05143B.

**Bulletin Key: U.R. = Manufactured Upon Request; N/A = Not Applicable**

## Micro (C) Series

Gas Spring Model	Port Size	Charging			
		Charging Nipple	Charging Assembly	Analog Load Cell	Digital Load Cell
C.045	M6	90.310.143	90.310.041/ 90.310.044	90.300.00045	90.305.LC.05A
C.070				90.300.00070	
C.090				90.300.00090	
C.180				90.300.00180	
C.250				90.300.00250	



## LJ / L Series

Gas Spring Model	Port Size	Charging				Standard Repair			
		Charging Nipple	Charging Assembly	Analog Load Cell	Digital Load Cell	Removal Sleeve	C-Ring Removal Tool	T-Handle	C-Ring Installation Tool
LJ.300	M6	90.310.143	90.310.040/ 90.310.041/ 90.310.044	90.300.0300	90.305.LC.05A	90.340.00300	90.355	90.320.1	90.351.00300
LJ.500				90.300.0500		90.340.00500		90.320.2	90.351.00500
LJ.750				90.300.0750		90.340.00750		90.320.2	90.351.00750
L.300				90.300.0300		90.340.00300		90.320.1	90.351.00300
L.500				90.300.0500		90.340.00500		90.320.2	90.351.00500
L.750				90.300.0750		90.340.00750		90.320.2	90.351.00750

## Ultra Force® Series / UK Series / UH Series

Gas Spring Model	Port Size	Charging				Standard Repair					
		Charging Nipple	Charging Assembly	Analog Load Cell	Digital Load Cell	Removal Sleeve	C-Ring Removal Tool	T-Handle	Assembly Cap	Cartridge Starter Kit	C-Ring Installation Tool
U.0175	M6	90.310.143	90.310.040/ 90.310.041/ 90.310.044	90.300.00175	90.305.LC.05A	N/A	N/A	N/A	N/A	N/A	N/A
U.0325	M6	90.310.143		90.300.0325		N/A	N/A	N/A	N/A	N/A	N/A
U / UH.0400	M6 / G 1/8	90.310.143/ 90.310.111		90.300.0300		90.340.00400	90.355	90.320.1	90.330.0400	U.R.	90.351.00400
U / UH.0600	M6 / G 1/8	90.310.143/ 90.310.111		90.300.0500		90.340.00600	90.355	90.320.2	90.330.0600	U.R.	90.351.00300
U / UK / UH.0800	M6 / G 1/8	90.310.143/ 90.310.111		90.300.0750		90.340.00750	90.355	90.320.2	90.330.0800	U.R.	90.351.00500
U / UK / UH.1000	M6 / G 1/8	90.310.143/ 90.310.111		90.300.1000		90.340.01200	90.356	90.320.2	90.330.1000	U.R.	90.350.00750
U.1200	M6	90.310.143		90.300.1200		90.340.01200	90.355/ 90.356	90.320.2	90.330.1200	U.R.	90.351.00750
U / UK / UH.1600	M6 / G 1/8	90.310.143/ 90.310.111		90.300.01500		90.340.01600	90.355/ 90.356	90.320.2	90.330.1600	U.R.	90.352/ 90.351.01600
U / UK / UH.2600	M6 / G 1/8	90.310.143/ 90.310.111		90.300.2600		90.340.01500	90.355/ 90.356	90.320.2	90.330.2600	U.R.	90.352
U / UH.4600	G 1/8	90.310.111		90.300.4600		90.340.03000	90.355/ 90.356	90.320.2	90.330.4600	U.R.	90.352
U / UH.6600	G 1/8	90.310.111	90.300.6600	90.340.05000	90.356	90.320.2	90.330.6600	U.R.	90.352		
U.9600	G 1/8	90.310.111	90.300.9600	90.340.07500	90.356	90.320.2	90.330.9600	90.335.9600	90.352		
U.20000	G 1/8	90.310.111	90.300.20000	90.340.10000	90.356	90.320.10	90.330.20000	90.335.20000	90.352.10000		

\*Note: DADCO's UH Series models UH.0400 – UH.2600 have a G 1/8 port size and use Charging Nipple 90.310.111.

## Ultra Force Extended® Series

Gas Spring Model	Port Size	Charging				Standard Repair					
		Charging Nipple	Charging Assembly	Analog Load Cell	Digital Load Cell	Removal Sleeve	C-Ring Removal Tool	T-Handle	Assembly Cap	Cartridge Starter Kit	C-Ring Installation Tool
UX.0800	G 1/8	90.310.111	90.310.040/ 90.310.041/ 90.310.044	90.300.0750	90.305.LC.05A	90.340.00750	90.355	90.320.2	90.330.0800	U.R.	90.351.00500
UX.1000				90.300.1000		90.340.01200	90.356	90.320.2	90.330.01000	U.R.	90.350.00750
UX.1600				90.300.01500		90.340.01600	90.355/ 90.356	90.320.2	90.330.01600	U.R.	90.352/ 90.351.01600
UX.2600				90.300.2600	90.340.01500	90.355/ 90.356	90.320.2	90.330.2600	U.R.	90.352	
UX.4600				90.300.4600	90.340.03000	90.355/ 90.356	90.320.2	90.330.4600	U.R.	90.352	
UX.6600				90.300.6600	90.340.05000	90.356	90.320.2	90.330.6600	U.R.	90.352	
UX.9600				90.300.9600	90.340.07500	90.356	90.320.2	90.330.9600	90.335.9600	90.352	
UX.20000				90.300.20000	90.340.10000	90.356	90.320.10	90.330.20000	90.335.20000	90.352.10000	

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## 90.10 / 90.8 Series

Gas Spring Model	Port Size	Charging				Standard Repair					
		Charging Nipple	Charging Assembly	Analog Load Cell	Digital Load Cell	Removal Sleeve	C-Ring Removal Tool	T-Handle	Assembly Cap	Cartridge Starter Kit	C-Ring Installation Tool
90.10.00170	M6	90.310.143	90.310.040/ 90.310.041/ 90.310.044	90.300.00250	90.305.LC.05A	90.340.00400	90.355	90.320.1	N/A	N/A	90.351.00400
90.10.00500	G 1/8	90.310.111		90.300.00500		90.340.00500	90.355	90.320.2	90.330.0600	U.R.	90.351.00500
90.10.00750				90.300.00750		90.340.00750	90.355 / 90.356	90.320.2	90.330.0800	U.R.	90.350.00750
90.10.01500				90.300.01500		90.340.01500	90.355 / 90.356	90.320.2	90.330.2600	U.R.	90.352
90.10.03000				90.300.03000	90.305.LC.50A	90.340.03000	90.355 / 90.356	90.320.2	90.330.4600	U.R.	90.352
90.10.05000				90.300.05000		90.340.05000	90.356	90.320.2	90.330.6600	U.R.	90.352
90.10.07500				90.300.07500	90.340.07500	90.356	90.320.2	90.330.9600	90.335.07500	90.352	
90.10.10000				90.300.10000	90.310.10000	90.356	90.320.10	90.330.20000	90.335.10000	90.352.10000	
90.8.00750				90.300.0750	90.305.LC.05A	90.340.00750	90.355 / 90.356	90.320.2	90.330.0800	U.R.	90.350.00750
90.8.01500				90.300.01500		90.340.01500	90.355 / 90.356	90.320.2	90.330.2600	U.R.	90.352
90.8.03000				90.300.03000	90.305.LC.50A	90.340.03000	90.355 / 90.356	90.320.2	90.330.4600	U.R.	90.352
90.8.05000				90.300.05000		90.340.05000	90.356	90.320.2	90.330.6600	U.R.	90.352
90.8.07500				90.300.07500		90.340.07500	90.356	90.320.2	90.330.9600	90.335.07500	90.352

## SC Series

Gas Spring Model	Port Size	Charging				Standard Repair				
		Charging Nipple	Charging Assembly	Analog Load Cell	Digital Load Cell	C-Ring Removal Tool	T-Handle	Rear Head Tool*	Seal Installation Tool	C-Ring Installation Tool
SC.00420	M6	90.310.143	90.310.040/ 90.310.041/ 90.310.044	98.300.00420	90.305.LC.05A	N/A	N/A	N/A	N/A	N/A
SC.00740				90.300.0750		90.355	90.320.1	90.320.1	98.357D.00740	90.351.00400
SC.01000				98.300.01000		90.355	90.320.1	90.320.1	98.357D.01000	90.351.00300
SC.01800	G 1/8	90.310.111	90.310.040/ 90.310.041/ 90.310.044	98.300.01800	90.305.LC.50A	90.355 / 90.356	90.320.1	98.328	U.R.	90.352
SC.03500				98.300.03500		90.355 / 90.356	90.320.1	98.328	U.R.	90.352
SC.04700				98.300.04700	90.355 / 90.356	90.320.1	98.328	U.R.	90.352	
SC.07500				98.300.07500	90.355 / 90.356	90.320.2	98.328	U.R.	90.352	
SC.11800				98.300.11800	90.356	90.320.2	98.328	U.R.	90.352	
SC.18300				98.300.18300	90.356	90.320.2	98.328	U.R.	90.352	

\*Note: DADCO's Rear Head Tool (98.328) is similar in look to the T-Handles pictured below and is only used in conjunction with SC Series nitrogen gas springs.

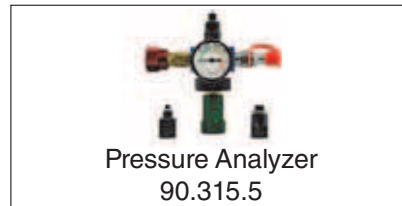
## SCR Series

Gas Spring Model	Port Size	Charging			
		Charging Nipple	Charging Assembly	Analog Load Cell	Digital Load Cell
SCR.0500	M6	90.310.143	90.310.041/ 90.310.044	90.301.0500	90.305.LC05A
SCR.0800				90.300.0750	90.305.LC05A
SCR.1900				98.300.1900	90.305.LC05A
SCR.3200				98.300.2600	90.305.LC50A

## Tool Reference

### Common Tools

DADCO offers a set of common tools that may be used across all series of DADCO nitrogen gas springs. Note: Digital Meter 90.305.BGA must be used with either Load Cell 90.305.LC.05A or 90.305.LC.50A for a proper reading.



### Specific Repair Tools

DADCO offers specific tools for individual models or series. Pictured below are examples of each tool. Note: Tools may vary in size, the tools shown below are not to scale. Charging Assembly, 90.310.341, is a high pressure model used for charging pressures above 2200 psi (152 bar). DADCO offers a variety of Test Stands to suite your needs; please see the individual bulletins for detailed information on which Test Stand to use with your gas spring.

90.340.____  Removal Sleeve	90.356 90.355  C-Ring Removal Tool	98.357D.____  Seal Installation Tool	90.330.____ OR 90.335.____  Assembly Cap Cartridge Starter Kit	90.351.____  C-Ring Installation Tool	90.352  C-Ring Installation Tool	90.310.143 90.310.111  Charging Nipple	90.320.____  T-Handles
90.310.340 90.310.341 90.310.044  Charging Assembly	90.300.____  Analog Load Cell	90.305.LC.50A  Digital Load Cell	90.305.LC.05A  Digital Load Cell	MTS.125  Test Stand	90.305.3  Test Stand	90.305.2  Test Stand	90.305.2D  Integrated Test Stand