HP Series Repair Kit Installation

HP Series Air Cylinder Repair Kit Installation

This bulletin is a simple step-by-step maintenance guide for DADCO's HP Series Air Cylinders. 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. After reviewing this maintenance guide, if you require any additional training or have any questions please contact DADCO for assistance.

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



Repair Kit Instructions



1. Unhook the cylinder from 2. Remove the tie rod the air supply. 2. Remove the tie rod nuts from the rear hear



2. Remove the tie rod nuts from the rear head using a socket drive allen wrench. Retain nuts for use during reassembly.



3. Remove the tie rods then remove the front head assembly.



4. Remove the dampening washer, save for reassembly.



5. Remove the front cushion seal and discard.



6. Insert the new front cushion seal with the flat side down. Reinstall the damping washer, be sure to line up the washer with the groove in the head.



7. Use the notch in the head to remove the rod seal. Be careful not to damage or scratch the inside of the head. Discard the rod seal.



8. Remove the plastic bearings using a screwdriver to pop them out. Be careful not to damage or scratch the inside of the head.



9. Replace the bearings by snapping them into the grooves.



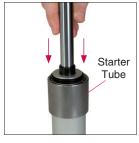
10. Install the new rod seal and set the front head aside for cylinder reassembly.



11. Remove the rod and piston assembly.



12. Remove and replace the piston seals, be careful not to scratch the surface of the piston. Guide tape will be loose and can be easily removed from the piston. Make sure the guide tape is in place before installation.



13. For installation of the rod and piston assembly use DADCO's Starter Tube (refer to page 2). Place the starter tube on top of the tube and carefully guide the rod and piston assembly into the tube. Maintain alignment and ensure the piston seals and guide tape remain in place.



14. Replace the front head ensuring alignment of the ports between the front and rear heads, then insert the four tie rods. To ensure proper alignment, square the heads using a flat surface (ex., granite block).



15. Replace the tie rod nuts using a medium strength liquid thread locker on the threads before re-installing. Alternate tightening of each tie rod nut a half turn until all tie rod nuts are secure. See page 2 for torque values. This completes the repair of your HP Series Air Cylinder.

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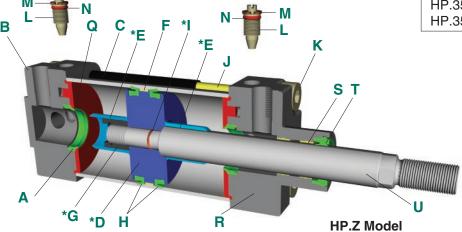
Parts List -

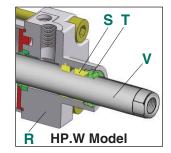
Starter Tube

Use the starter tube to guide the piston and rod assembly into the tube.

HP.350.040 HP.350.080 HP.350.050 HP.350.100 HP.350.063 HP.350.125







NOTE: For bore diameters ø32 and ø160-ø250, please contact DADCO.

Pa	Quant arts List Requir		ø40	ø50	ø63	ø80	ø100	ø125
Α	Cushion Seal	2	IQ470950	IR470951	IR470951	IT470953	IU470954	IV470955
В	Rear Head	1	IQ600461	IR600462	IS600463	IT600214	IU600215	IV600216
С	Tube	1	IQ05Z	IR05Z	IS05Z	IT05Z	IU05Z	IV05Z
F	Guide Tape	1	IQ417726	IR417727	IS417728	IT417521	IU417467	IV41V360
Н	Piston Seal	2	IQ480970	IR480971	IS480972	IT480973	IU480974	IV47V359
J	Tie Rod	4	IQ75M	IR75M	IS75M	IT75M	IU75M	IV75M
K	Tie Rod Nut Torque Value	8	IP852201 8 lbs.ft.	IR852203 18 lbs.ft.	IR852203 18 lbs.ft.	IT852205 34 lbs.ft.	IT852205 34 lbs.ft.	IV850313 62 lbs.ft.
L	Regulating Screw	2	IQ502241	IR502242	IS502243	IT502244	IU502245	IV502246
M	Retaining Ring	2	IP857278	IR857279	IS857280	IS857280	IU857281	IV857282
N	Adj. Screw O-Ring	2	IP450979	IR450981	IS450982	IT450983	IU450984	IV450985
Q	Dampening Washer	2	IQ450861	IR450862	IS450863	IT450864	IU450865	IV450866
	HP.Z Model							
R	Front Head	1	IQ600451	IR600452	IS600453	IT600204	IU600205	IV600206
S	Rod Bearing	2	90.240.00300	90.240.00500	90.240.00500	90.240.00750	90.240.01500	90.240.U.2600
Т	Rod Seal/Wiper/Ring	1	IQ47V230	IR47V231	IR47V231	IT47V232	IU47V233	IV47V234
**U	Piston Rod Assembly	1	IQ00Z	IR00Z	IS00Z	IT00Z	IU00Z	IV00Z
	HP.W Model							
**V	Piston Rod Assembly	1	IQ00W	IR00W	IS00W	IT00W	IU00W	IV00W
	Seal Kit Contains A, H & T		IQ009181	IR009182	IS009183	IT009184	IU009185	IV009186
	Repair Kit Contains A, H, S & T		IQ009191	IR009192	IS009193	IT009194	IU009195	IV009196

^{*} Not sold separately: Piston (D), Piston O-Ring (I), Piston Nut (G) and Cushion Spears (E).

Every effort has been made to have all illustrations and drawings accurately represent the product as it was at the time this bulletin was printed. However, so that we effectively may continue to meet the requirements of DADCO customers, some product changes may occur during the life of this bulletin without prior notice.