

www.pacbrake.com 800.663.0096



HP10086/HP10130 KIT



Pacbrake Fabricators Air Spring Kit*

* See application guide for proper fitment.

Use the most advanced air springs on the market to eliminate your vehicle's sag, sway and bottoming out. Pacbrake air suspension levels your truck's stance while providing added support for an overall smooth and safe ride.



HP10086 / HP10130 AMP AIR SUSPENSION KIT



HP10130



Α	Air Springs (2)	HP10000
В	Spacer Tube (2)	HP1257
С	End Cap (4)	HP1166
D	Roll Plate (4)	HP10054
Е	Heat Shield (2)	HP0012
F	Gear Clamp (4)	HP1001
G	%" NP x %" Capscrew (8)	HP1002
Н	¾" Flat Washer (8)	C653
Т	3/8" Lock Washer (8)	C18007
J	Tie Straps (8)	C11618
κ	Air Line/Valve Assembly	HP1344
L	Air Fittings (2)	HP1100
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HP10086



А	Air Springs (2)	HP10068
В	Spacer Tube (2)	HP1257
С	Roll Plates (4)	HP10069
D	End Cap (2)	HP1166
Е	%" NF x ⅓" Capscrews (8)	HP1002
F	%" Lock Washer (8)	C18007
G	¾" Flat Washer (8)	C653
Н	Tie Straps (8)	C11618
	Air Line/Valve Assembly	HP1344
J	Air Fittings (2)	HP1100



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Congratulations and thank you for the purchase of an AMP Fabricators Air Spring Kit. This kit is designed for the customizer/fabricator to install our air springs on applications which have been (or are being) modified, or where a specific air spring kit is not available. The installation will require cutting and welding of thick wall tube, therefore a good saw and welder must be available. Pacbrake recommends using a good quality anti-seize on all fasteners, this will reduce the chances of corrosion of the fasteners, and help facilitate removal if required at a later date.

Please ensure your kit contains all the items shown in the photo.

HP10130 (SUGGESTED FOR REAR SUSPENSION)



HP10086 (LRG AIR SPRINGS, SUGGESTED FOR FRONT SUSPENSION)



This kit contains thick wall tube, mounting plates, air springs and mounting accessories to get you started on your custom air spring installation. Pacbrake can supply many variations of additional brackets and fasteners to support you throughout the project. In-cab adjustment kits with dual and single needle pressure gages are also available from your Pacbrake distributor.

BEFORE STARTING THE INSTALLATION

Important points to note when designing and fabricating custom air spring brackets

- **1** Do not use air springs as a replacement to a lift kit. To achieve a higher vehicle ride height using air springs, high air pressure must be applied to the air springs which will cause poor ride quality without weight in the vehicle.
- 2 For an optimum ride, the ride height should remain the same with the air springs inflated to the minimum pressure of 15 PSI. Never exceed the maximum pressure of 100 PSI.
- **3** Driveline angles: Measure the yoke angles prior to the air spring installation and maintain them within an acceptable margin.
- 4 Clearance around the air spring assembly: Ensure surrounding components will not contact the air spring during extended and compressed axle travel.
- **5** Exhaust pipe clearance to the air springs: Provided in the HP10130 kit are two exhaust heat shields and gear clamps. Secure them to the exhaust to protect the air spring from the heat of the exhaust pipes.
- 6 Ball joint travel must not be exceeded. Incorrect installation may cause the ball joint to limit suspension travel. If this occurs ball joint failure will result.
- 7 Ensure the air spring brackets allow enough movement to perform a wheel alignment.
- 8 Cut the thick wall spacer tube on the correct angles to ensure the air spring compresses evenly in all directions once installed.





AIR SPRING CHART

PART #	MINIMUM COMPRESSION	MEAN	MAXIMUM EXTENSION
HP10000 Double Convoluted	3.000"	5.750"	8.400"
HP10068 Double Convoluted	2.900"	6.250"	9.500"

Using the chart above for minimum and maximum air spring height, ensure you have the correct air spring for your design requirements.

- 1 On a flat level concrete floor, with the vehicle resting on the tires (or jack stands under the axles), measure and record front and rear vehicle ride height.
- 2 Measure the overall distance between the upper and lower air spring mounting locations. Consider the thickness of the upper and lower brackets, mounting and roll plates in this dimension, then subtract the MEAN dimension of the air spring used in your kit to determine the length to cut the thick wall tube.
- **3** Once the thick wall tube is cut to length and the correct compression angles are confirmed, tack weld the assembly together. Then, install the air springs and test fit. Adjust as necessary.

Remove the air spring to prevent damage when performing the final welding of the assembly together.

- 4 Install the air spring to the mounting assembly and torque the ³/₆" NF capscrews (securing the air spring to the mounting plates) to 20 ft-lbs, 27 N•m.
- 5 Install the 90 degree fittings into the air spring port using thread sealant.
- 6 Install the nylon air lines and secure with the tie-straps provided.
- **7** Provided are two inflation valves to inflate and deflate the air springs. Install them in a location convenient to access.

Contact Pacbrake Customer Service @ 1.800.663.0096 for in-cab adjustment options.

WARRANTY

To be eligible for warranty, owner must submit their warranty card or register online within 30 days of purchase date. NOTE: The owners warranty will be void if air springs run with less than the minimum of 10 PSI.



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