



Neway HCV Replacement Valve Installation Instructions (1)

Removal of Old Valve

Caution: Removal of a height control/leveling valve must be undertaken only by strictly following the vehicle or equipment manufacturer's service manual. The valve controls the air spring height and if precautions are not taken to properly block the vehicle or equipment in position, the suspended load can suddenly drop enough to cause injury or death.

Note which air line runs to the center fitting on the old valve and mark this line (this should be the line to the Air Spring).

Remove the valve following the vehicle manufacturer's instructions. Remove the control link if it shows evidence of damage or deterioration of the rubber ends.

Inspection

Before beginning the installation of a new Valve check all air line tubing, fittings, air shocks or springs and other components that are tied into the air system. Inspect for cuts, punctures or other damage that may cause an air leak or not allow the HCV to not function properly. Repair any problems before continuing with installation.

Inspect the HCV Control Link. Make sure that the rubber bushings are still flexible; if not, replace the Control Link when installing the HCV.

Preparation

Clean the surface where the HCV will mount. Make sure that dirt and debris are removed from the mounting holes. Thoroughly clean the two air line fittings that will attach to the HCV. Preventing dirt from entering the HCV will ensure a long trouble free life from your new HCV. It may be necessary to cut the old air line to remove the compression ferrule and nut, this may make the air line too short for the new installation. Replace any air lines that are too short to be routed properly.

If the old valve had a short arm, break off the arm on the new valve at the score provided. If possible, place the arm in vise with the score near the vise jaws, and bend the arm to break at the score. If a vise is not available, use two pairs of pliers or adjustable wrenches to break the arm.

If you are replacing the control link with an adjustable link, use the old link as a guide to set the length of the new link (see link instructions). We recommend Kwik-Link adjustable replacement links for all installations.

Note: If you are using a universal kit (P/N K870127, K870128), make sure that the SAE gaskets are still properly seated in the new valve before installing the appropriate fittings (the SAE gaskets are located in the brass fittings under the yellow caps).

Note: Do not use thread sealant on any of the air line fittings. It is not required for a proper seal and can cause the HCV to malfunction if the sealant enters the HCV or other system components.



Neway HCV Replacement Valve Installation Instructions (2)

Installation

Attach the HCV in the original mounting location for the old valve. Tighten the two bolts or nuts.

Connect the control link to the valve arm and tighten the attaching bolt and nut. Connect the other end of the Control Link to its mounting bracket.

Connect the air spring air line to the top port on the KOTR Valve. Connect the supply air to the bottom port on the KOTR Valve (this port is next to the black exhaust tubing). Tighten the two air line fittings to 50-60 in-lb (5.5-6.5 N-M).

Note: Do not loosen the lock nut on the HCV control Arm as it is factory preset.

Caution: Before proceeding, refer to the vehicle or equipment manufacturer's instructions for pressurizing the height control system after a valve replacement. Sudden changes in height are possible if the correct procedures are not followed.

Pressurize the air system to normal operating pressures. Check air line connections using a soap-water solution and watch for bubbles which would indicate an air leak. If bubbles are present gently tighten the air line fitting until the bubbles stop. Do not use any type of sealant to stop leaks.

Height Adjustment

Check the equipment height per the equipment manufacturer's instructions and recommended height specification.

If adjustment is required:

For Fixed Length Control Links

Loosen the Lock Nut on the side of the HCV Control Arm using a 7/16" hex wrench. Move the Overtravel Safety up to increase the height and down to reduce the height. Tighten Lock Nut to 70-80 in-lbs (8-9 N-M) and re-check the height. If it is necessary to make height adjustments greater than that allowed by the adjustment built into the valve overtravel mechanism, it will be necessary to change to a different length link.

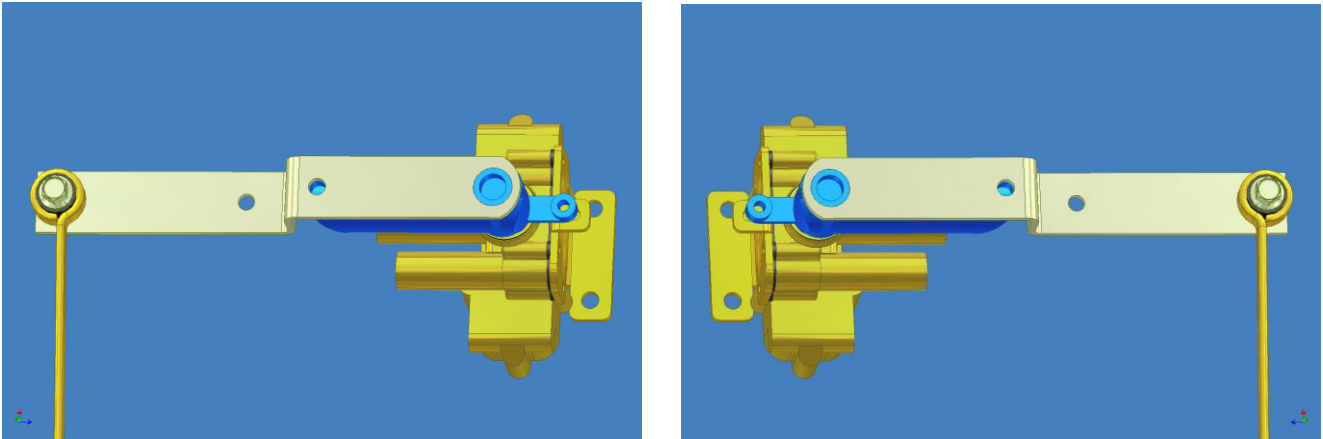
For Adjustable Length Control Links

Do not loosen the Lock Nut on the HCV control Arm as it is factory preset. Follow the Control Link manufacturer's instructions to adjust the Control Link, which will then change the height of the vehicle or equipment.

Replacing a Neway CR Valve with a King of the Road Valve with Integral Check

Step 1 – Identify Left-Hand or Right-Hand Valve application:

Look at the valve arm with the valve mounting bracket away from you - as mounted on the vehicle



If the arm goes to the left, the valve is Left-Hand. If the arm goes to the right, the valve is Right-Hand

Step 2 – Identify fitting size needed:

Check tubing size: Valves were available with 1/4" or 3/8" compression tube fittings.

Note: For other sizes and applications, the KOTR valve is also available with 1/8-27 NPT fittings or as a universal kit with 1/4", 3/8" and 1/8-27 NPT fittings (where possible, use the new tubing fittings supplied with the KOTR valve).

Step 3 – Look up KOTR Valve part number in Table 1:

Table 1	Left-Hand KOTR Valve	Right-Hand KOTR Valve
1/4" Compression Tube Fittings	K870121	K870122
3/8" Compression Tube Fittings	K870123	K870124
1/8 NPT Pipe Threads (Female)	K870125	K870126
Universal Kit - 1/4" and 3/8" Compression & 1/8 NPT Female	K870127	K870128

Neway/King of the Road Cross-Reference

	Neway Description	Left-Hand KOTR Valve	Right-Hand KOTR Valve
90054007	1/4" Fittings, Long Arm	K870121	K870122
90054113	1/4" Fittings, Short Arm ¹		
90554183	3/8" Fittings, Long Arm	K870123	K870124
90054549	3/8" Fittings, Short Arm ¹		
90554114	1/8 NPT with Long Arm	K870125	K870126
90554186	Universal Kit: 1/4" & 3/8" Tube Fittings, 1/8 NPT Fittings with Long Arm	K870127	K870128
90054520	Arm (Only) Part Number	See Note 2 Below	See Note 2 Below

Notes:

1: Since 2004/2005, most Neway CR Valves were shipped with a Long arm that is scored and when required can be modified by hand to produce the Short arms, this obsoletes P/N 90054113 and 90054549 'Short Arm' part numbers. KOTR replacement valves for Neway applications have a similar Long Arm that can be shortened in the field by breaking at the score line.

2: Part Number 90054520 is often requested as a Valve Assembly. This is the part number for the arm only, not the valve assembly. Use our guide to Replacing a Neway CR Valve with a King of the Road Valve to find the correct KOTR part number.