



Installation Instructions

Doc. No. Y162789 (EN - Rev. 002)
January 2017

Disassembly and Assembly Instructions for the Desiccant Cartridge Interior and Main Sieve Kit in EAC2.5

This service instruction was created to support the safe disassembly and assembly of the Desiccant Cartridge Interior and Main Sieve Kit.

The procedure should be performed only by well-trained persons in a clean workshop.

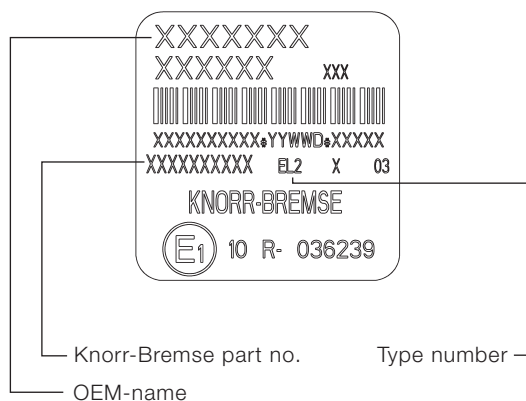
Use only original Knorr-Bremse parts.

Safety and Environmental instructions for service and repair work

- Secure the vehicle so that it cannot move prior to beginning repair and service.
- Ensure the service brake is released and the parking brake is applied.
- If the EAC2.5 has to be dismantled from the vehicle, deplete all pressure in the air system to 0 bar.
- When removing pipework/fittings, ensure they are adequately marked to ensure correct re-installation.
- Avoid touching the electrical connector pins of the EAC2.5.
- At the end of any service or repair work on the EAC2.5 a final audit must be carried out on a roller dynamometer including functional test.
- All items that are replaced should be disposed of according to local regulations. This is especially relevant for the Desiccant Cartridge, O-Ring and Silencer which **MUST NOT** be disposed of as general waste.

For the full Knorr-Bremse Safety and Environmental Guidelines, please observe Knorr-Bremse document **Y075876** – see www.knorr-bremseCVS.com.

Product and Part Number Identification



- Identify Knorr-Bremse Part number from label
- Refer to website www.knorr-bremseCVS.com for aftermarket replacement

The information contained herein is subject to alteration without notice and therefore may not be the latest release. Please check our website www.knorr-bremseCVS.com for the latest update or contact your local Knorr-Bremse representative. The figurative mark "K" and the trademarks KNORR and KNORR-BREMSE are registered in the name of Knorr-Bremse AG. Additional terms and conditions apply; please refer to our website www.knorr-bremseCVS.com for full Disclaimer.

Note: If service work is carried out on a vehicle based on information provided herein, it is the responsibility of the workshop to ensure the vehicle is fully tested and in full functional order before the vehicle is returned into service. Knorr-Bremse accepts no liability for problems caused as a result of appropriate tests not being carried out.

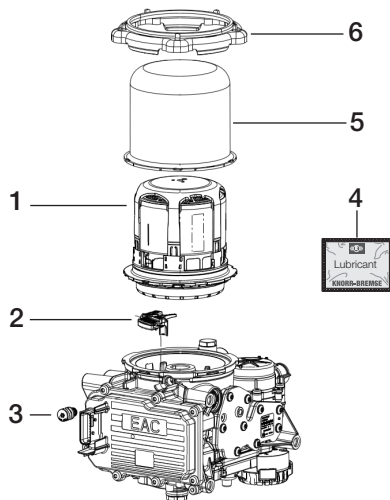
Copyright © Knorr-Bremse AG - all rights reserved, including industrial property rights applications. Knorr-Bremse AG retains any power of disposal, such as for copying and transferring. Knorr-Bremse Systeme für Nutzfahrzeuge GmbH . Georg-Knorr-Strasse 4 . 12681 Berlin . Germany . Tel: +49 1802 237 637 . Fax: +49 30 9392-3426 . www.Knorr-Bremse.com . www.Knorr-BremseCVS.com

K100263



Installation Instructions

Doc. No. Y162789 (EN - Rev. 002)
January 2017



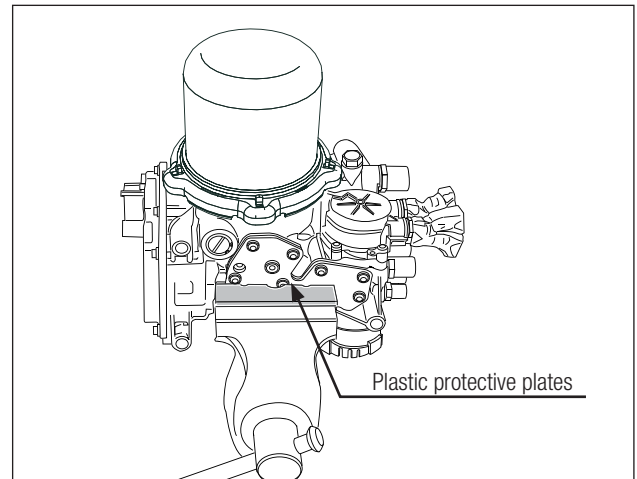
Legend

- 1 Desiccant cartridge interior
- 2 Main sieve
- 3 Locking screw
- 4 Grease
- 5 Desiccant cartridge housing
- 6 Bayonet ring

General notes

Dismantle and assemble the bayonet ring (6) and locking screw (3) on a clean workbench in case an exchange is not possible on the vehicle. All the following description steps can be performed on the workbench or the vehicle.

Clean the EAC2.5 and clamp it in a suitable bench vice; use plastic protective plates in order not to damage the device.



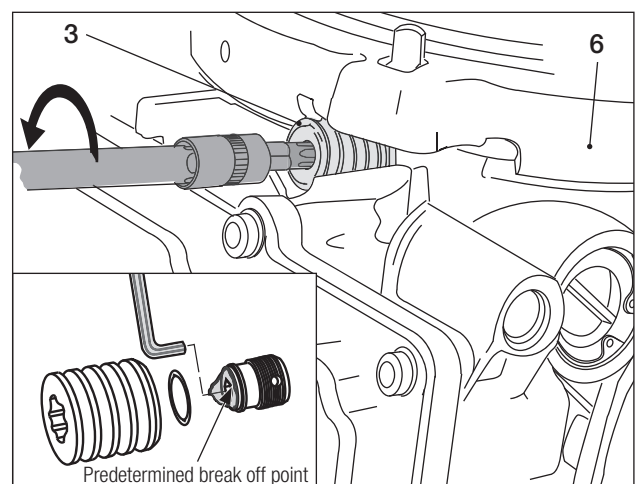
Removal of bayonet ring (6), desiccant cartridge housing (5), desiccant cartridge interior (1), locking screw (3) and main sieve (2).

Remove the locking screw (3) - Torx T30

If the Torx drive slips because the hexalobular socket of the locking screw is worn out, take the next bigger bit size and drive it into the socket of the screw by means of a hammer.

Unscrew the locking screw.

If the locking screw breaks off at the pre-determined break-off point, the remainder of the locking screw can still be removed with a 5mm Allen key.



 See page 1 for disposal.

The information contained herein is subject to alteration without notice and therefore may not be the latest release. Please check our website www.knorr-bremseCVS.com for the latest update or contact your local Knorr-Bremse representative. The figurative mark "K" and the trademarks KNORR and KNORR-BREMSE are registered in the name of Knorr-Bremse AG. Additional terms and conditions apply; please refer to our website www.knorr-bremseCVS.com for full Disclaimer.

Note: If service work is carried out on a vehicle based on information provided herein, it is the responsibility of the workshop to ensure the vehicle is fully tested and in full functional order before the vehicle is returned into service. Knorr-Bremse accepts no liability for problems caused as a result of appropriate tests not being carried out.

Copyright © Knorr-Bremse AG - all rights reserved, including industrial property rights applications. Knorr-Bremse AG retains any power of disposal, such as for copying and transferring.

Knorr-Bremse Systeme für Nutzfahrzeuge GmbH · Georg-Knorr-Strasse 4 · 12681 Berlin · Germany · Tel: +49 1802 237 637 · Fax: +49 30 9392-3426 · www.Knorr-Bremse.com · www.Knorr-BremseCVS.com

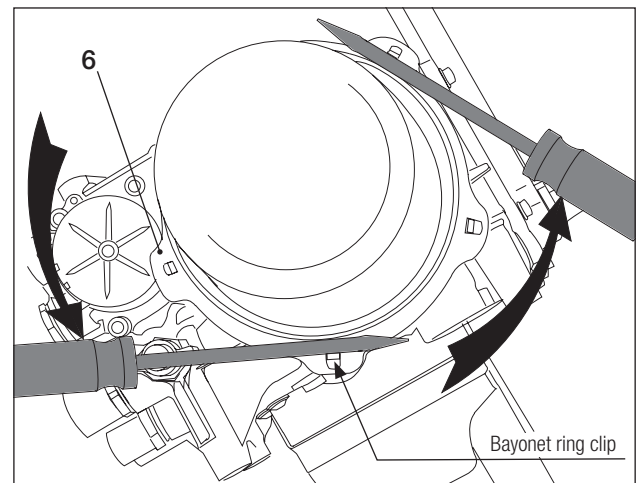
K100263

Installation Instructions

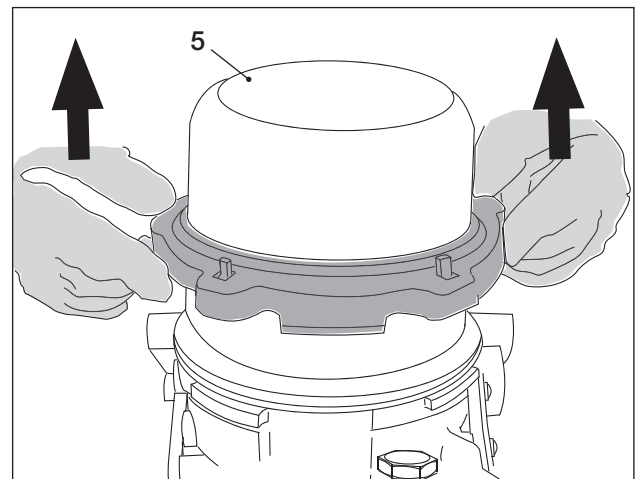
Doc. No. Y162789 (EN - Rev. 002)
January 2017

Place two screwdrivers on the bayonet ring clips.

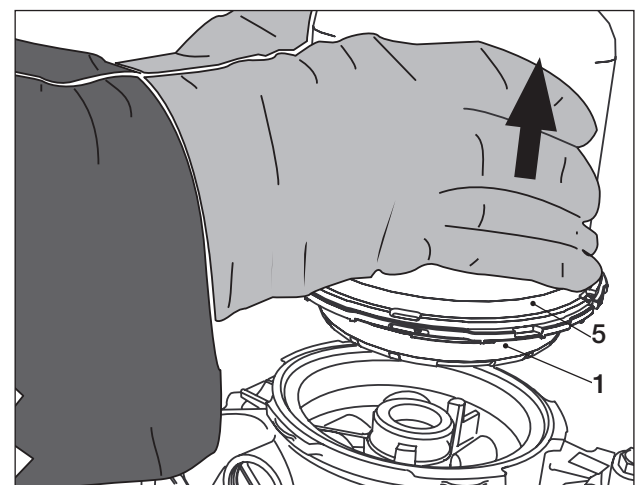
Rotate the bayonet ring with both screwdrivers anti-clockwise until it loosens



Slide the bayonet ring over the desiccant cartridge housing (5).



Remove the desiccant cartridge housing along with the desiccant cartridge interior (1) from the valve block.



The information contained herein is subject to alteration without notice and therefore may not be the latest release. Please check our website www.knorr-bremseCVS.com for the latest update or contact your local Knorr-Bremse representative. The figurative mark "K" and the trademarks KNORR and KNORR-BREMSE are registered in the name of Knorr-Bremse AG. Additional terms and conditions apply; please refer to our website knorr-bremseCVS.com for full Disclaimer.

Note: If service work is carried out on a vehicle based on information provided herein, it is the responsibility of the workshop to ensure the vehicle is fully tested and in full functional order before the vehicle is returned into service. Knorr-Bremse accepts no liability for problems caused as a result of appropriate tests not being carried out.

Copyright © Knorr-Bremse AG - all rights reserved, including industrial property rights applications. Knorr-Bremse AG retains any power of disposal, such as for copying and transferring.

Knorr-Bremse Systeme für Nutzfahrzeuge GmbH . Georg-Knorr-Strasse 4 . 12681 Berlin . Germany . Tel: +49 1802 237 637 . Fax: +49 30 9392-3426 . www.Knorr-Bremse.com . www.Knorr-BremseCVS.com

Installation Instructions

Doc. No. Y162789 (EN - Rev. 002)
January 2017

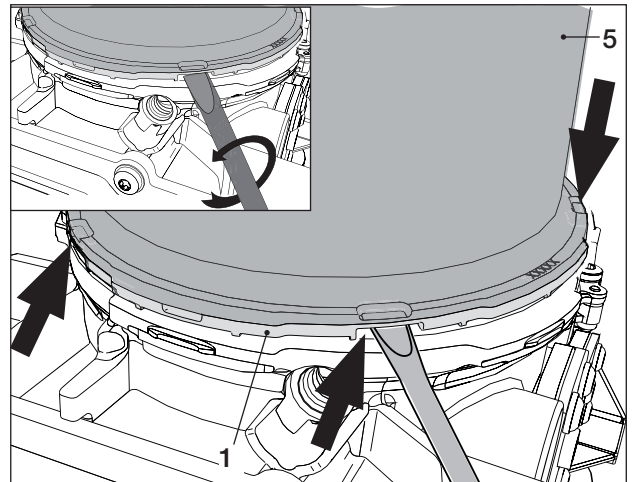
If it is **not** possible to remove the assembly from the valve block by hand, insert a flat headed screwdriver in one of the three grooves - see arrows in diagram.

Rotate or lever lightly with the screwdriver.

It should now be possible to remove the assembly.



Avoid scrapes and deformations at the valve block.
Risk of corrosion.



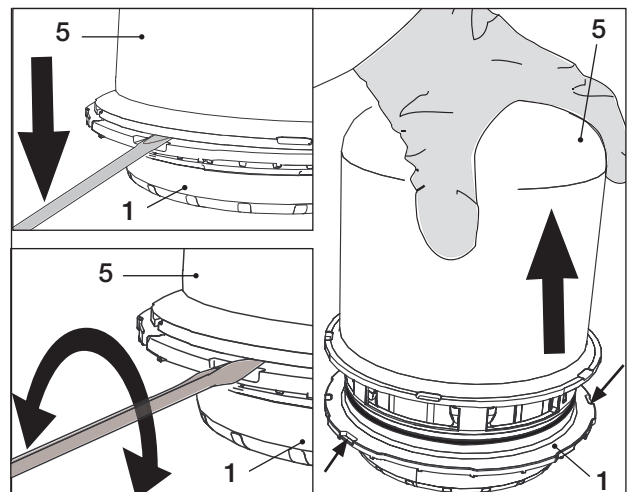
The slots in the desiccant cartridge interior (1) allow it to be removed from the desiccant cartridge housing (5) - see arrows.

Position a flat-headed screwdriver in one of these slots, lever the desiccant cartridge housing using one of the illustrated methods.

The desiccant cartridge housing can then be removed from the desiccant cartridge interior.



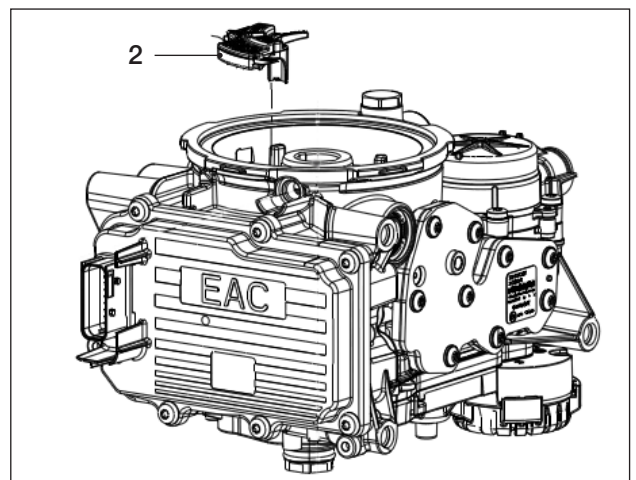
See page 1 for disposal.



Remove main sieve (2)



See page 1 for disposal.



The information contained herein is subject to alteration without notice and therefore may not be the latest release. Please check our website www.knorr-bremseCVS.com for the latest update or contact your local Knorr-Bremse representative. The figurative mark "K" and the trademarks KNORR and KNORR-BREMSE are registered in the name of Knorr-Bremse AG. Additional terms and conditions apply; please refer to our website www.knorr-bremseCVS.com for full Disclaimer.

Note: If service work is carried out on a vehicle based on information provided herein, it is the responsibility of the workshop to ensure the vehicle is fully tested and in full functional order before the vehicle is returned into service. Knorr-Bremse accepts no liability for problems caused as a result of appropriate tests not being carried out.

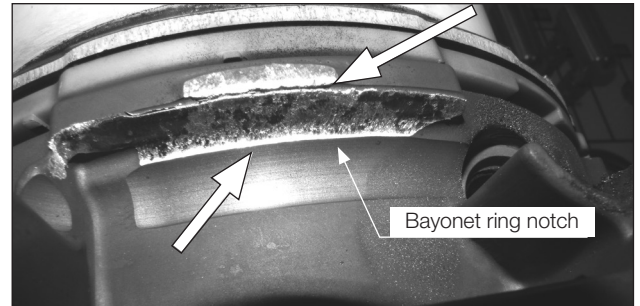
Copyright © Knorr-Bremse AG - all rights reserved, including industrial property rights applications. Knorr-Bremse AG retains any power of disposal, such as for copying and transferring.

Knorr-Bremse Systeme für Nutzfahrzeuge GmbH · Georg-Knorr-Strasse 4 · 12681 Berlin · Germany · Tel: +49 1802 237 637 · Fax: +49 30 9392-3426 · www.Knorr-Bremse.com · www.Knorr-BremseCVS.com

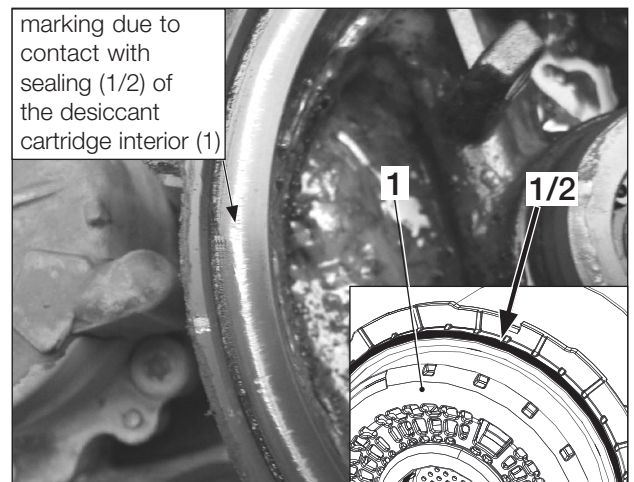
K100263

Visual checking of the valve block

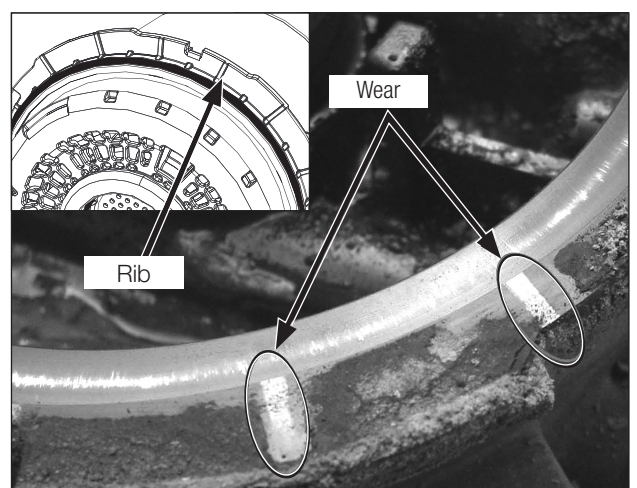
By removing the bayonet ring it is possible to check the valve block. If the protective surface is worn down to the base metal or if the bayonet ring notch has any damage, see arrows, the EAC2.5 must be replaced - see **Product and Part Number Identification** section of this document.



Wear of the sealing area as shown in the adjacent picture is permissible - see picture.



Wear caused by the ribs of the desiccant cartridge interior (1) are permitted - see picture.



The information contained herein is subject to alteration without notice and therefore may not be the latest release. Please check our website www.knorr-bremseCVS.com for the latest update or contact your local Knorr-Bremse representative. The figurative mark "K" and the trademarks KNORR and KNORR-BREMSE are registered in the name of Knorr-Bremse AG. Additional terms and conditions apply; please refer to our website knorr-bremseCVS.com for full Disclaimer.

Note: If service work is carried out on a vehicle based on information provided herein, it is the responsibility of the workshop to ensure the vehicle is fully tested and in full functional order before the vehicle is returned into service. Knorr-Bremse accepts no liability for problems caused as a result of appropriate tests not being carried out.

Copyright © Knorr-Bremse AG - all rights reserved, including industrial property rights applications. Knorr-Bremse AG retains any power of disposal, such as for copying and transferring.

Knorr-Bremse Systeme für Nutzfahrzeuge GmbH . Georg-Knorr-Strasse 4 . 12681 Berlin . Germany . Tel: +49 1802 237 637 . Fax: +49 30 9392-3426 . www.Knorr-Bremse.com . www.Knorr-BremseCVS.com

K100263

Installation Instructions


Doc. No. Y162789 (EN - Rev. 002)
January 2017

Clean and check

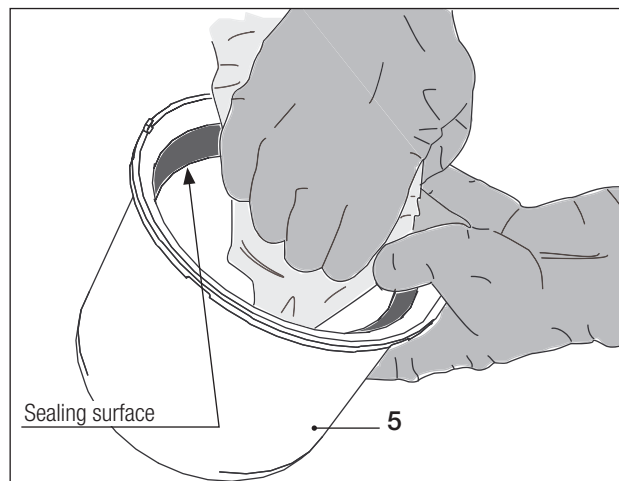
Clean inside and outside of the desiccant cartridge housing (5).

Check all of the inside surface for corrosion.

Check sealing surface for damage.

 If corrosion is found inside the desiccant cartridge housing or there is damage to the sealing surface, the desiccant cartridge housing must be renewed.

 See page 1 for disposal.

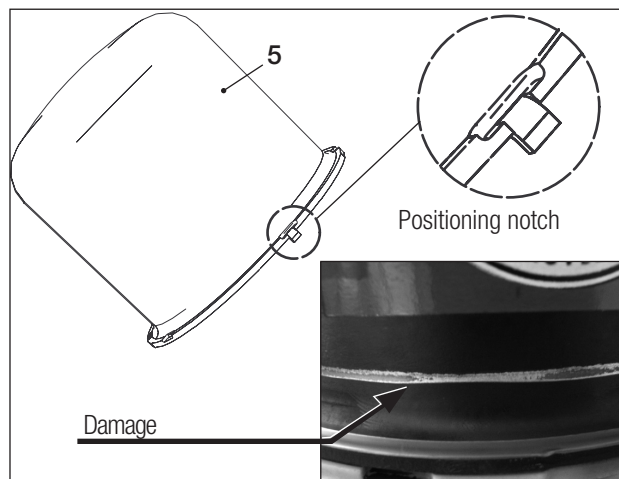


Check whether the positioning notch is still intact on the desiccant cartridge housing (5).

If this is missing, the desiccant cartridge housing (5) must be renewed.

If any damage is noted on the outside of the desiccant cartridge housing, for example as shown in the diagram, the desiccant cartridge housing must be renewed.

Apply the supplied grease (4) to the sealing surface of the desiccant cartridge housing.

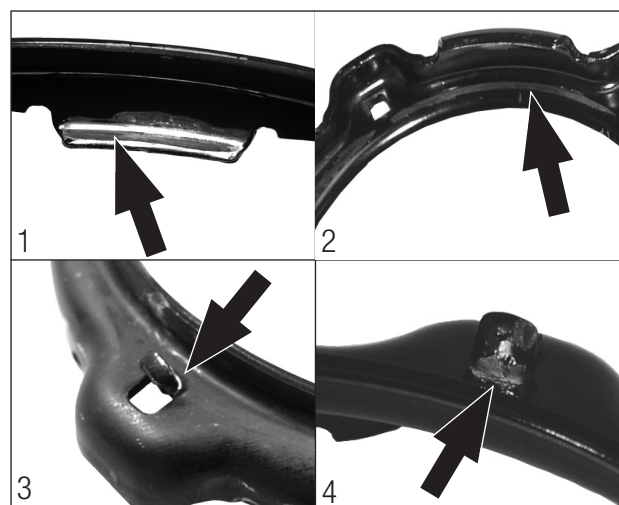


Clean the bayonet ring.

Replace the bayonet ring if the following damage is noted.

- Worn protective surface of the bayonet ring - see figures 1 & 2
- If three or more bayonet ring clips are bent, contain cracks or are missing - see figure 3 & 4

 See page 1 for disposal.



The information contained herein is subject to alteration without notice and therefore may not be the latest release. Please check our website www.knorr-bremseCVS.com for the latest update or contact your local Knorr-Bremse representative. The figurative mark "K" and the trademarks KNORR and KNORR-BREMSE are registered in the name of Knorr-Bremse AG. Additional terms and conditions apply; please refer to our website www.knorr-bremseCVS.com for full Disclaimer.

Note: If service work is carried out on a vehicle based on information provided herein, it is the responsibility of the workshop to ensure the vehicle is fully tested and in full functional order before the vehicle is returned into service. Knorr-Bremse accepts no liability for problems caused as a result of appropriate tests not being carried out.

Copyright © Knorr-Bremse AG - all rights reserved, including industrial property rights applications. Knorr-Bremse AG retains any power of disposal, such as for copying and transferring.


Knorr-Bremse Systeme für Nutzfahrzeuge GmbH . Georg-Knorr-Strasse 4 . 12681 Berlin . Germany . Tel: +49 1802 237 637 . Fax: +49 30 9392-3426 . www.Knorr-Bremse.com . www.Knorr-BremseCVS.com

K100263


Installation Instructions

Doc. No. Y162789 (EN - Rev. 002)
January 2017

Close openings of the safety valve (A) and the non-return valve (B) with a lint free cloth or alternatively with sticky tape to help prevent any dirt from entering. Clean the chamber (grey), the sealing surfaces (C), the thread and seal area (D) of the locking screw (3) and the bayonet ring notches (E) - see arrows in diagram.


 Compressed air must not be used under any circumstances in the chamber area (grey) since this may cause dirt to enter the safety valve (A) or the non-return valve (B) resulting in a malfunction.

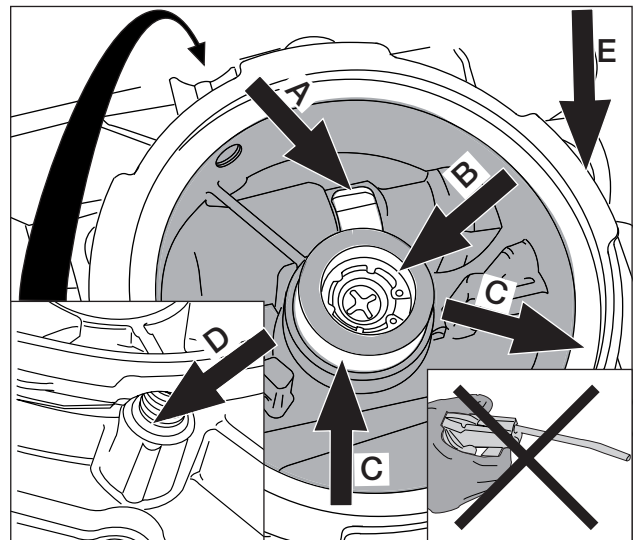
Ensure that there is no dirt remaining in the chamber area.

 Any dirt residue in the safety valve (A) or in the non-return valve (B) should be removed with a lint free cloth

Check sealing surfaces (C), inner thread and sealing area (D) for the locking screw for scratches.

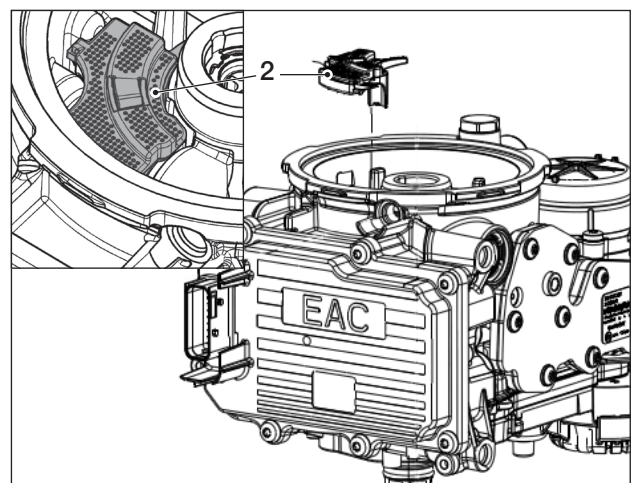
Check also valve block - see **Visual checking of the valve block** section of this document

 The EAC2.5 must be replaced if any such damage is noted to the valve block - see **Product and Part Number Identification** section of this document.



Mounting of bayonet ring (6), desiccant cartridge housing (5), desiccant cartridge interior (1) locking screw (3) and main sieve (2)

Insert main sieve (2)



The information contained herein is subject to alteration without notice and therefore may not be the latest release. Please check our website www.knorr-bremseCVS.com for the latest update or contact your local Knorr-Bremse representative. The figurative mark "K" and the trademarks KNORR and KNORR-BREMSE are registered in the name of Knorr-Bremse AG. Additional terms and conditions apply; please refer to our website www.knorr-bremseCVS.com for full Disclaimer.

Note: If service work is carried out on a vehicle based on information provided herein, it is the responsibility of the workshop to ensure the vehicle is fully tested and in full functional order before the vehicle is returned into service. Knorr-Bremse accepts no liability for problems caused as a result of appropriate tests not being carried out.

Copyright © Knorr-Bremse AG - all rights reserved, including industrial property rights applications. Knorr-Bremse AG retains any power of disposal, such as for copying and transferring.

Knorr-Bremse Systeme für Nutzfahrzeuge GmbH . Georg-Knorr-Strasse 4 . 12681 Berlin . Germany . Tel: +49 1802 237 637 . Fax: +49 30 9392-3426 . www.Knorr-Bremse.com . www.Knorr-BremseCVS.com

Installation Instructions

Doc. No. Y162789 (EN - Rev. 002)
January 2017

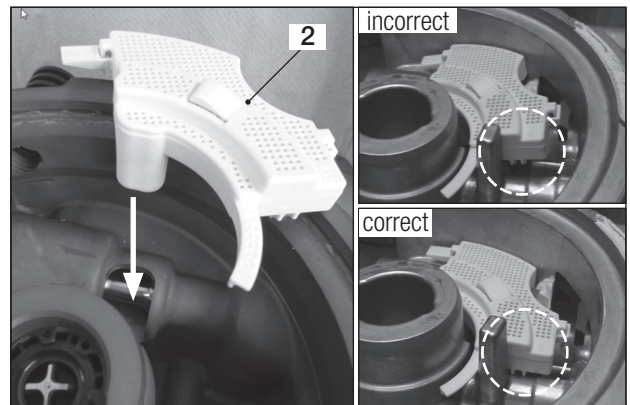
Note: there are two valve block variants and therefore two different installation situations.

Installation situation 1. Valve block variant 1 from KW29/2013

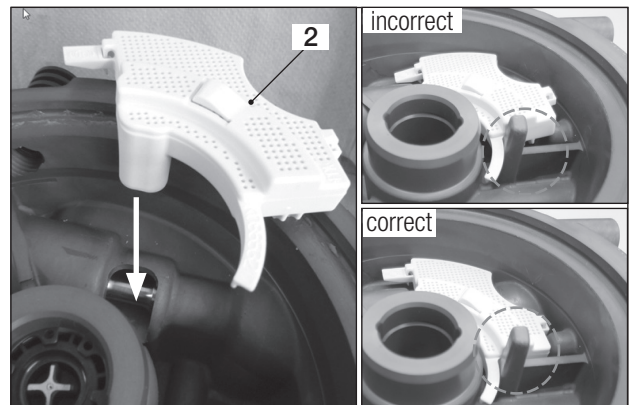


It is important with both valve block variants, to insert the locking finger of the main sieve (2) thoroughly into the opening for the safety valve - see arrow.

If the main sieve has not been inserted correctly it may become damaged when the desiccant cartridge assembly (1+5) is fitted. This will result in a malfunction of the EAC 2.5.



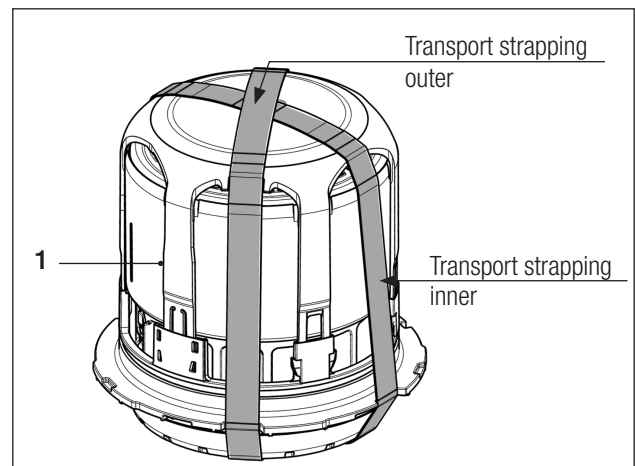
Installation situation 2. Valve block variant 2 up to KW28/2013.



Before fitting the new desiccant cartridge interior (1) the strapping must be removed.



Warning, strapping is under tension. Wear safety glasses and gloves



The information contained herein is subject to alteration without notice and therefore may not be the latest release. Please check our website www.knorr-bremseCVS.com for the latest update or contact your local Knorr-Bremse representative. The figurative mark "K" and the trademarks KNORR and KNORR-BREMSE are registered in the name of Knorr-Bremse AG. Additional terms and conditions apply; please refer to our website knorr-bremseCVS.com for full Disclaimer.

Note: If service work is carried out on a vehicle based on information provided herein, it is the responsibility of the workshop to ensure the vehicle is fully tested and in full functional order before the vehicle is returned into service. Knorr-Bremse accepts no liability for problems caused as a result of appropriate tests not being carried out.

Copyright © Knorr-Bremse AG - all rights reserved, including industrial property rights applications. Knorr-Bremse AG retains any power of disposal, such as for copying and transferring.

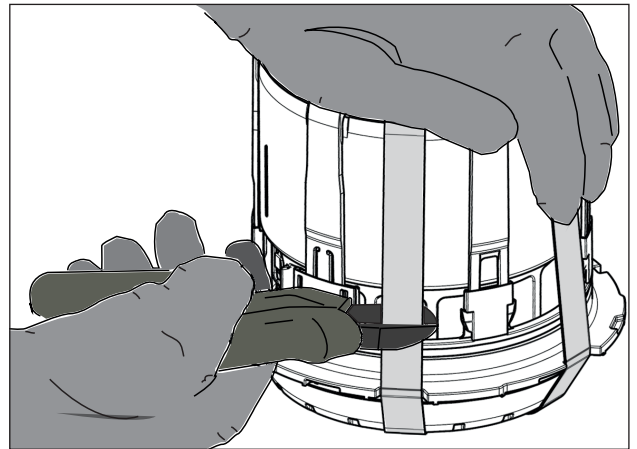
Knorr-Bremse Systeme für Nutzfahrzeuge GmbH . Georg-Knorr-Strasse 4 . 12681 Berlin . Germany . Tel: +49 1802 237 637 . Fax: +49 30 9392-3426 . www.Knorr-Bremse.com . www.Knorr-BremseCVS.com

Installation Instructions

Doc. No. Y162789 (EN - Rev. 002)
January 2017

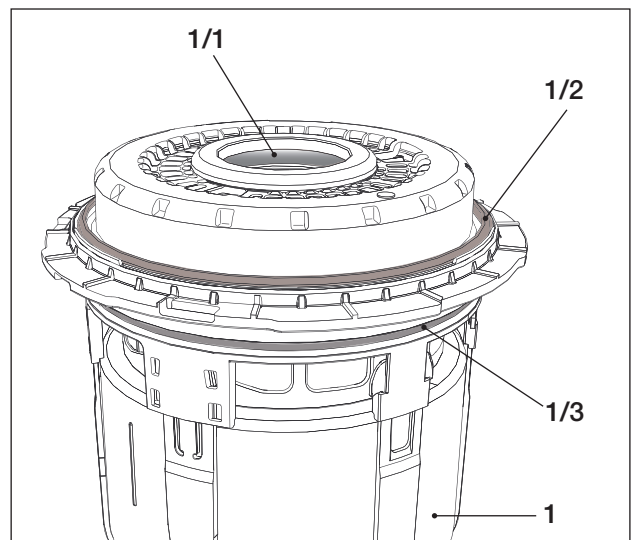
Position the tool in the lower third of the transport strapping - see diagram. Cut through first the "transport strapping outer", then the "transport strapping inner".

 See page 1 for disposal.

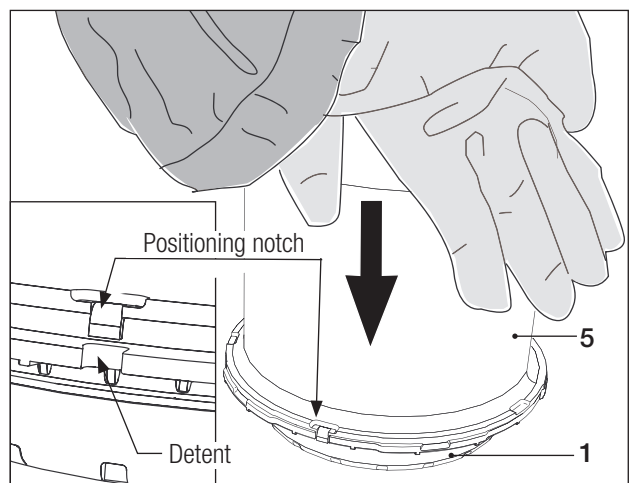


Apply the supplied grease (3) to the sealing elements 1/1 - 1/3 in the desiccant cartridge interior (1).

Note: do not alter the position of the sealing elements.



Align the positioning notch of the desiccant cartridge housing (5) directly over the desiccant cartridge interior (1) detent and push the housing to engage.



The information contained herein is subject to alteration without notice and therefore may not be the latest release. Please check our website www.knorr-bremseCVS.com for the latest update or contact your local Knorr-Bremse representative. The figurative mark "K" and the trademarks KNORR and KNORR-BREMSE are registered in the name of Knorr-Bremse AG. Additional terms and conditions apply; please refer to our website www.knorr-bremseCVS.com for full Disclaimer.

Note: If service work is carried out on a vehicle based on information provided herein, it is the responsibility of the workshop to ensure the vehicle is fully tested and in full functional order before the vehicle is returned into service. Knorr-Bremse accepts no liability for problems caused as a result of appropriate tests not being carried out.


Copyright © Knorr-Bremse AG - all rights reserved, including industrial property rights applications. Knorr-Bremse AG retains any power of disposal, such as for copying and transferring.

Knorr-Bremse Systeme für Nutzfahrzeuge GmbH . Georg-Knorr-Strasse 4 . 12681 Berlin . Germany . Tel: +49 1802 237 637 . Fax: +49 30 9392-3426 . www.Knorr-Bremse.com . www.Knorr-BremseCVS.com

K100263

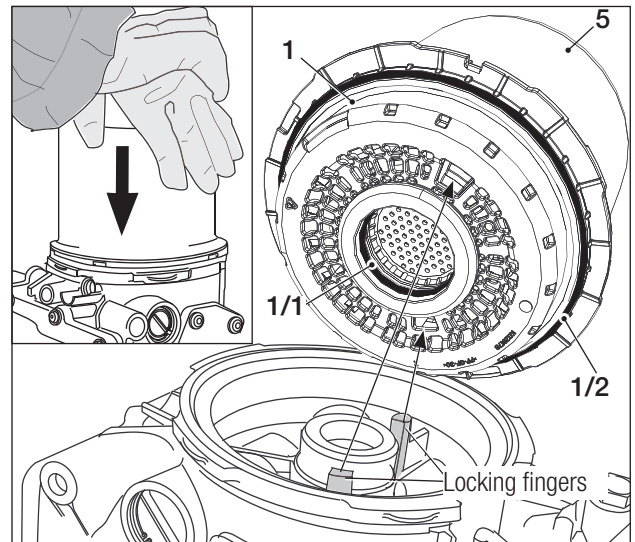
Installation Instructions

Doc. No. Y162789 (EN - Rev. 002)
January 2017

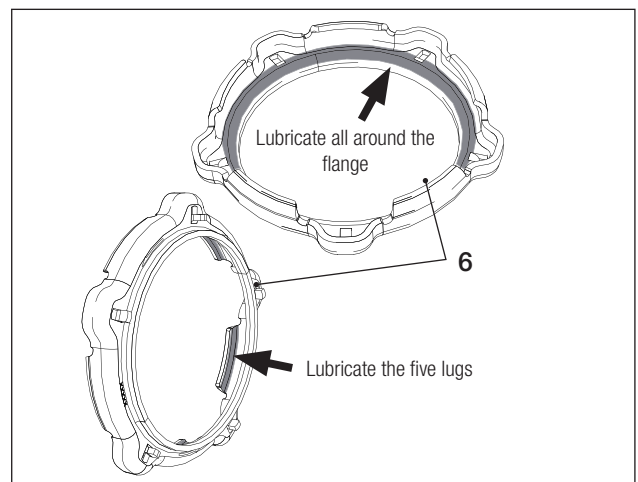
 It is important that the two fingers of the valve block are aligned with the detents in the desiccant cartridge interior - see diagram.

Push the assembly on to the valve block.

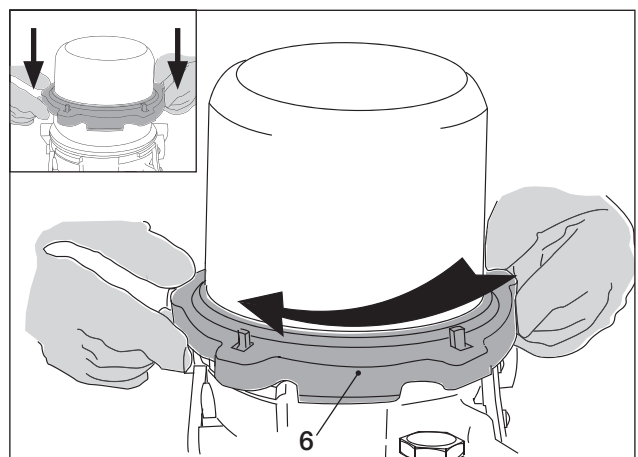
Note: To minimise the necessary force required, make sure that the desiccant cartridge's sealing elements (1/1) and (1/2) are sufficiently lubricated.



Apply the supplied grease (4) to the bayonet ring (6) in the highlighted places.



Fit bayonet ring and turn in a clockwise direction until it clicks into place.



The information contained herein is subject to alteration without notice and therefore may not be the latest release. Please check our website www.knorr-bremseCVS.com for the latest update or contact your local Knorr-Bremse representative. The figurative mark "K" and the trademarks KNORR and KNORR-BREMSE are registered in the name of Knorr-Bremse AG. Additional terms and conditions apply; please refer to our website www.knorr-bremseCVS.com for full Disclaimer.

Note: If service work is carried out on a vehicle based on information provided herein, it is the responsibility of the workshop to ensure the vehicle is fully tested and in full functional order before the vehicle is returned into service. Knorr-Bremse accepts no liability for problems caused as a result of appropriate tests not being carried out.

Copyright © Knorr-Bremse AG - all rights reserved, including industrial property rights applications. Knorr-Bremse AG retains any power of disposal, such as for copying and transferring.

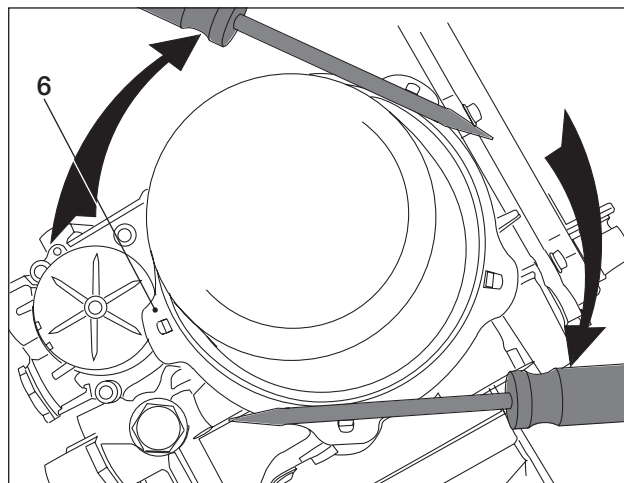
Knorr-Bremse Systeme für Nutzfahrzeuge GmbH . Georg-Knorr-Strasse 4 . 12681 Berlin . Germany . Tel: +49 1802 237 637 . Fax: +49 30 9392-3426 . www.Knorr-Bremse.com . www.Knorr-BremseCVS.com

K100263

Installation Instructions

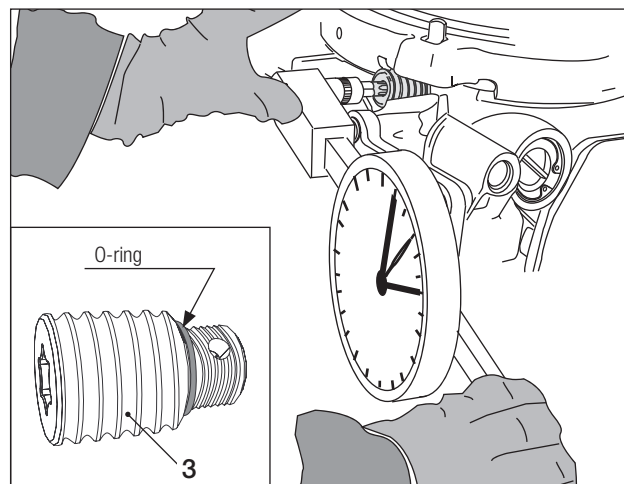
Doc. No. Y162789 (EN - Rev. 002)
January 2017

Tighten the bayonet ring with two screwdrivers in a clockwise direction as shown.



Grease the O-ring on the new locking screw (3). Alternatively lubricate the O-ring sealing area in the valve block.

Tighten securely to a torque of 5^{+1} Nm. - Torx T30



Reset the cartridge predictive maintenance to 0 using an appropriate diagnostics tool.

Dispose of all packaging and waste in a responsible manner - see also **Y075876**
Safety and Environmental Guidelines www.knorr-bremseCVS.com

Disclaimer:

The information contained herein is intended for the exclusive use of trained persons within the commercial vehicle industry, and must not be passed on to any third party. All recommendations regarding products and their servicing or usage are with reference to Knorr-Bremse products and should not be considered applicable to products from other manufacturers. This information does not purport to be all-inclusive and no responsibility is assumed as a result of its use. We cannot accept any liability nor offer any guarantee regarding data accuracy, completeness or timeliness. The information does not represent any guarantee or ensured characteristics of the Products or Systems described. No liability can be accepted based on the information, its use, recommendations or advice provided. In no event may we be held liable for any damage or loss except in the case of wilful intent or gross negligence on our part, or if any mandatory legal provisions apply.

This disclaimer is an English translation of a German text, which should be referred to for all legal purposes. Any legal disputes arising from the use of this information shall be subject to German law.

The information contained herein is subject to alteration without notice and therefore may not be the latest release. Please check our website www.knorr-bremseCVS.com for the latest update or contact your local Knorr-Bremse representative. The figurative mark "K" and the trademarks KNORR and KNORR-BREMSE are registered in the name of Knorr-Bremse AG. Additional terms and conditions apply; please refer to our website www.knorr-bremseCVS.com for full Disclaimer.

Note: If service work is carried out on a vehicle based on information provided herein, it is the responsibility of the workshop to ensure the vehicle is fully tested and in full functional order before the vehicle is returned into service. Knorr-Bremse accepts no liability for problems caused as a result of appropriate tests not being carried out.

Copyright © Knorr-Bremse AG - all rights reserved, including industrial property rights applications. Knorr-Bremse AG retains any power of disposal, such as for copying and transferring.

Knorr-Bremse Systeme für Nutzfahrzeuge GmbH · Georg-Knorr-Strasse 4 · 12681 Berlin · Germany · Tel: +49 1802 237 637 · Fax: +49 30 9392-3426 · www.Knorr-Bremse.com · www.Knorr-BremseCVS.com