

UP2DATE

KNORR-BREMSE ELECTRONIC PARKING BRAKE

In addition to Knorr-Bremse supplying the Electronic Parking Brake system as original equipment to Scania, MAN and various specialist OE applications, all modules are now available for the Independent Aftermarket as well.

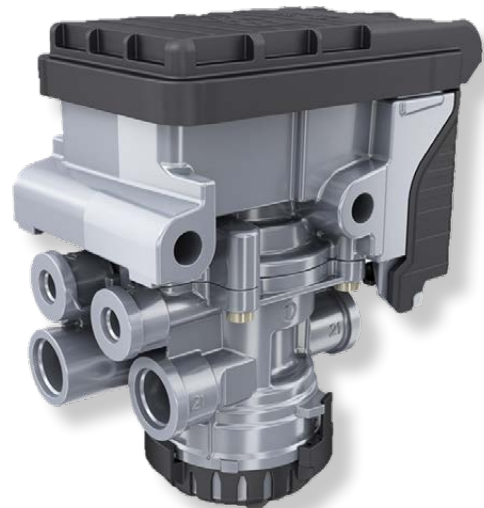
Knorr-Bremse TruckServices is constantly working to improve its product portfolio and service concepts in line with customer and market requirements to optimize coverage of the various vehicle applications and regional differences. The standalone version of the Electronic Parking Brake system was first introduced to the OE in 2017 and has been sold more than 150.000 times since.

In order to continually provide the best customers service, Knorr-Bremse now also offers the EPB modules for all OE applications in the IAM:

- Braked Trailer
- Unbraked Trailer
- No Trailer

At a glance

- › Individually available components
- › Perfect fit and compatibility
- › Original Equipment quality



Key functionalities of the Knorr-Bremse EPB


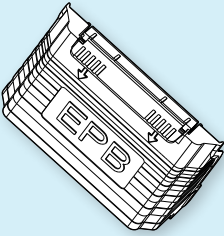
Category	Description
Park & Release	<p>Manual Park: Apply Parking Brake of the vehicle via pulling the hand control unit (HCU) manually.</p> <p>Manual Release: Release Parking Brake of the vehicle via pushing HCU manually.</p> <p>Auto Park: Applies Parking Brake automatically e.g. if driver switches off ignition.</p> <p>Auto Release: Releases Parking Brake automatically if transmission readiness is signalled.</p>
Gradual Brake Control	<p>Progressive Brake: In case of a principal brake system failure of the service brake, EPB is able to brake the vehicle by pulling the HCU. Pressure in spring brake chambers is controlled proportional to HCU stroke.</p>
Proportional Braking	<p>EPB + EBS / ABS with ESP: XBR demand is given to Brake ECU analogue to HCU stroke. EBS / ABS system brakes the vehicle.</p>
Auto Hold	<p>Auto Hold Function: Auto Hold Function safes the last brake pressure when vehicle comes to standstill and keeps it there without actuation of the brake pedal. Vehicle will get in motion again after pushing the accelerator pedal. (Mainly function in combination with EBS and EPB as backup to prevent rolling of vehicle).</p>
Trailer	<p>Trailer Control: Trailer is braked in park position with trailer service brakes.</p> <p>Trailer Test: Trailer test function makes it possible for the driver to check if tractor can keep vehicle combination in standstill or if trailer is not braked.</p>
Workshop	<p>Workshop Mode: Special case of AutoPark. Disables automatic apply of parking brake. Used during service maintenance.</p>

Key advantages of the EPB compared to conventional parking brake systems


Category	Description
Higher Safety	<ul style="list-style-type: none"> • Ensured development according to ISO 26262 for the complete system • Faster control of the braking forces • Lower risk of unintended spring brake application through broken tubes or fittings • Interlock prevents full activation of the parking brake while vehicle is in motion • Automatic park brake application when vehicle is parked (can be deactivated) to avoid roll-away of vehicles • Hill start is supported by Automatic park brake release • Dashboard integrated flat lever reduces risk of injury in case of an accident
Lower installation and handling effort	<ul style="list-style-type: none"> • Less components • Less part numbers • Lower number of fittings and pre-assemblies • Lower pipe length • Lower pneumatic logistics efforts
High flexibility	<ul style="list-style-type: none"> • Synergy with Knorr-Bremse EBS system • Suitable for further functions in relation to parking brake

The following page contains an overview of all Knorr-Bremse EPB components.

Table of EPB components

Knorr-Bremse IAM Part Number	Knorr-Bremse OE Part Numbers	OE Manufacturer	OE Part Numbers*	Service Parts			
K115007V01N50 ^{1),2)} Braked Trailer	K115007N05 K115007V00N05 K115007V01N05	Scania	2335316 2593520 2642702 2664004 2846749 2860635	 K164182K50 Silencer	 K163309N50 Side Cover		
K114939V01N50 ^{1),2)} Unbraked Trailer	K114939N05 K114939V00N05 K114939V01N05		2335315 2593518 2642764 2664005 2846748 2860637				
K119524V01N50 ^{1),2)} No Trailer	K119524N05 K119524V00N05 K119524V01N05		2336929 2593521 2642766 2664006 2846816 2860638				
K123797V04N50 ^{1),2)} Braked Trailer	K123797N04 K123797V00 K123797V00N04 K123797V04 K123797V04N04	MAN	81.52315-6217 81.52315-6221				
K156944V01N50 ^{1),2)} Braked Trailer	K156944N49 K156944V00N49 K156944V01N49	Various Manufacturers	57979A T22038129				
K204888V00N50 ^{1),2)} Braked Trailer, 12V variant	K204888V00N49 K204888V01N49		400/Z5636				
K159362V01N50 ^{1),2)} No Trailer	K159362N49 K159362V00N49 K159362V01N49		100-0024045 1000935 34075176 667301 67894A MS0014987				
K173238N50 Hand Control Unit	K173238001N49 K173238N49		401/S9851 MS0018601 100-0024047 1109222 34075174 57975A 667302 MS0016071 PROT-00023 T22038128				

1)  - Compatible with NEO and KTS diagnostic platforms

2)  - A core return surcharge will be applied

*Note: The OE Part Numbers should only be used as a reference for the identification of the relevant IAM part numbers.
The information is supplied without liability.

Coming soon

All modules are compatible with NEO from version NEO_Green_18.x (release 09.2020) and NEO_Orange_Alltrucks_18.1 (release 09.2020).

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**Up-to-date information on our products can be
found on our website truckservices.knorr-bremse.com**



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Note

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