

EBS PRODUCT CATALOGUE

...FOR TRUCK & BUS APPLICATIONS:
IVECO, MAN, MERCEDES BENZ, RENAULT TRUCKS, SCANIA & VOLVO

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Disclaimer

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GLOSSARY OF ABBREVIATIONS

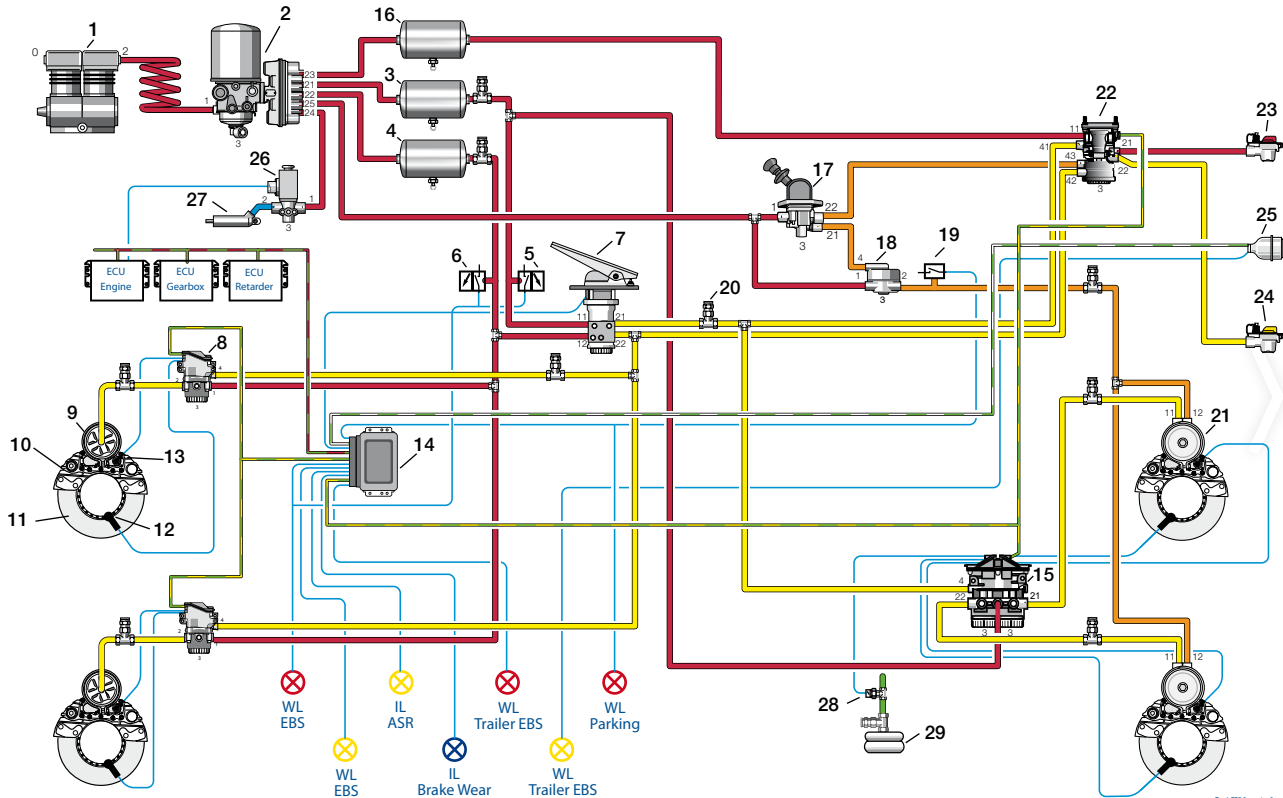
Abbreviation	Description
ABS	ABS (Anti-lock Braking System)
CAN	Controller Area Network
CMU	Communication and Measuring Unit
EAC	Electronic Air Control Unit
EBS	Electronic Braking System
ECA	Electronic Clutch Actuator
ECU	Electronic Control Unit
EPM	Electro-Pneumatic Module
ESP	Electronic Stability Program
FBM	Foot Brake Module
OBD	Diagnostic Connection
SAS	Steering Angle Sensor
TCM	Trailer Control Module
TEBS	Trailer Electronic Braking System
UDIF	Universal Diagnostics Interface
YRS	Yaw Rate Sensor

KNORR-BREMSE ELECTRONIC BRAKING SYSTEM FOR TRUCKS (EBS 2.X)

1. Compressor
2. Air Processing Unit
3. Air Reservoir Circuit 1
4. Air Reservoir Circuit 2
5. Pressure Switch Circuit 1
6. Pressure Switch Circuit 2
7. EBS Foot Brake Module
8. EBS 1-Channel Module
9. Brake Chamber
10. Air Disc Brake
11. Brake Disc
12. Sensing Ring and Speed Sensor
13. Wear Sensor
14. EBS ECU
15. EBS 2-Channel Module
16. Air Reservoir Circuit 3
17. Hand Control Valve
18. Relay Valve
19. Pressure Switch
20. Test Connector
21. Spring Brake
22. EBS Trailer Control Module
23. Coupling Head "Supply"
24. Coupling Head "Control"
25. EBS Connection ISO 7638
26. Solenoid Valve
27. Operating Cylinder
28. Pressure Sensor
29. Air Spring Bellows

- Supply
- Service Brake
- Parking Brake
- Air Suspension
- Auxiliary Equipment
- CAN-Signal "Control"
- CAN-Signal "Trailer"
- CAN-Signal "J1939"
- Electrical Signal

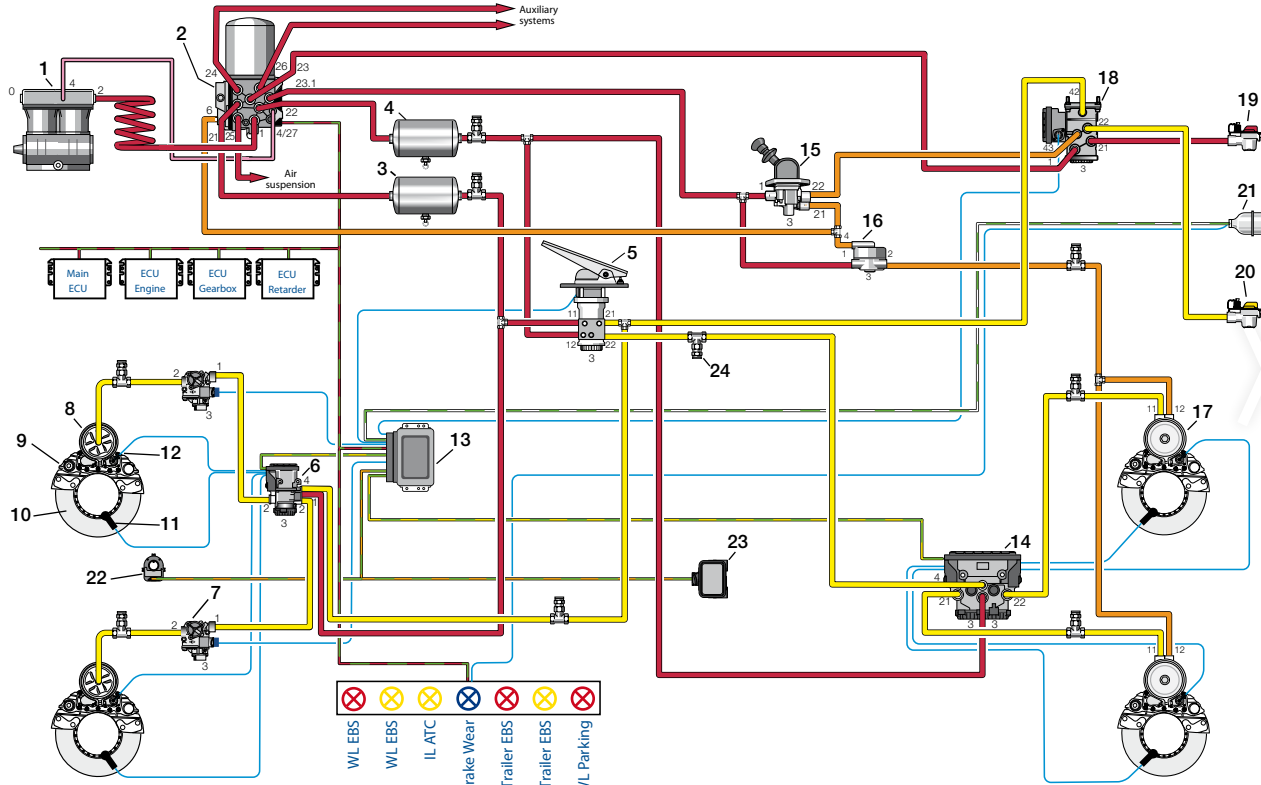
- WL Warning Lamp
- IL Information Lamp



Truck EBS 2x master 3

KNORR-BREMSE ELECTRONIC BRAKING SYSTEM FOR TRUCKS (EBS 5)

1. Compressor
2. Electronic Air Control (EAC) Unit
3. Air Reservoir Circuit 1
4. Air Reservoir Circuit 2
5. Foot Brake Module
6. EBS One Channel Module
7. Pressure Control Modulator
8. Brake Chamber
9. Air Disc Brake
10. Brake Disc and Sensing Ring
11. Wheel Speed Sensor
12. Wear Sensor
13. EBS Electronic Control Unit (ECU)
14. EBS Two Channel Module
15. Hand Control Valve
16. Relay Valve
17. Spring Brake
18. EBS Trailer Control Module
19. Coupling Head "Supply"
20. Coupling Head "Control"
21. EBS Connection ISO 7638
22. ESP Steering Angle Sensor
23. ESP Yaw Rate Sensor
24. Test Connector

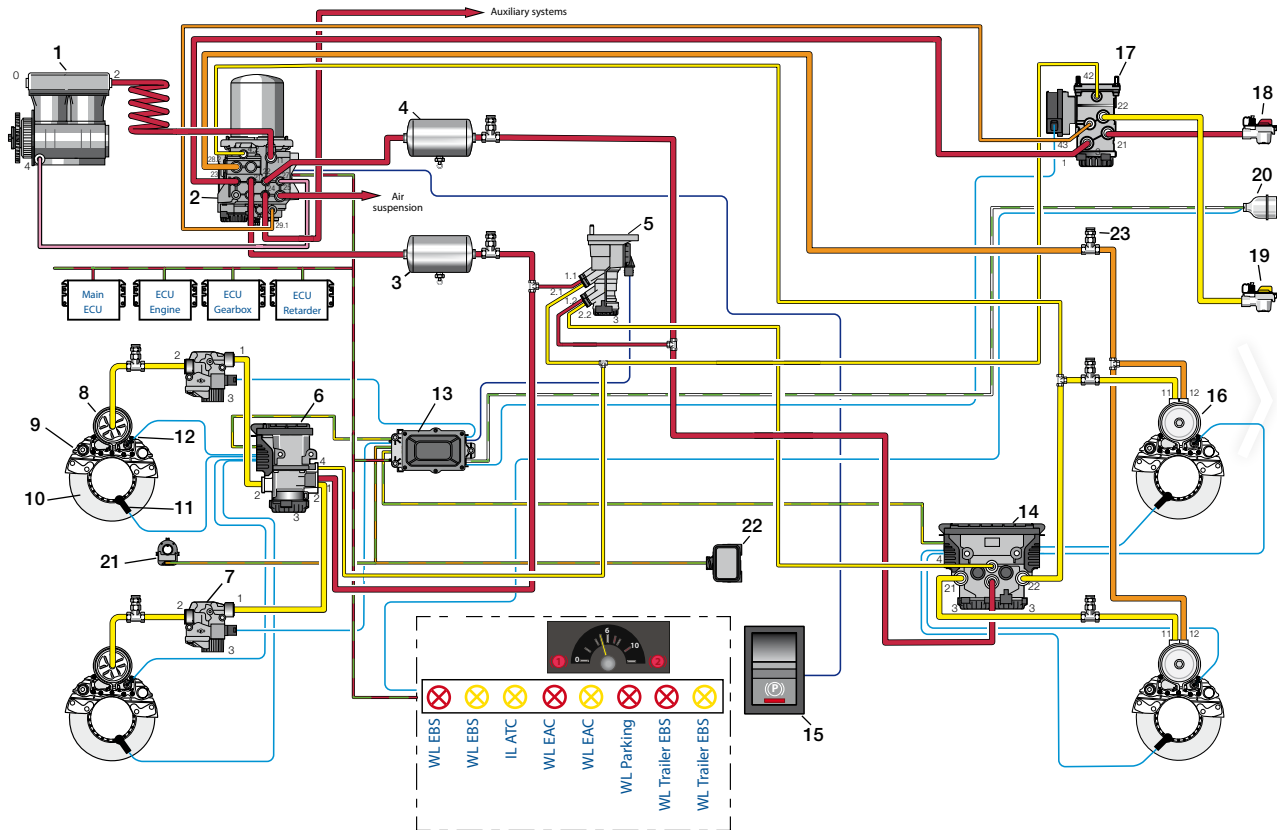


- Supply
- ESS Signal
- Service Brake
- Parking Brake
- CAN-Signal "Control"
- CAN-Signal "Trailer"
- CAN-Signal "ESP"
- CAN-Signal "J1939"
- Electrical Signal
- WL Warning Lamp
- IL Information Lamp

⊗	⊗	⊗	⊗	⊗	⊗	⊗
WL EBS	WL EBS	IL ATC	IL Brake Wear	WL Trailer EBS	WL Trailer EBS	WL Parking

KNORR-BREMSE ELECTRONIC BRAKING SYSTEM FOR TRUCKS (EBS 7)

1. Compressor with Clutch
2. Electronic Air Control (EAC) Unit
3. Air Reservoir Circuit 1
4. Air Reservoir Circuit 2
5. EBS Foot Brake Module
6. EBS One Channel Module
7. Pressure Control Modulator
8. Brake Chamber
9. Air Disc Brake
10. Brake Disc and Sensing Ring
11. Wheel Speed Sensor
12. Wear Sensor
13. EBS Electronic Control Unit (ECU)
14. EBS Two Channel Module
15. Hand Control Unit
16. Spring Brake
17. EBS Trailer Control Module
18. Coupling Head "Supply"
19. Coupling Head "Control"
20. EBS Connection ISO 7638
21. ESP Steering Angle Sensor
22. ESP Yaw Rate Sensor *
23. Test Connector



* May be integrated in the ECU (13)

Operation

When the driver depresses the brake pedal, the FBM triggers the 'brake' function via EBS. The central ECU recognises the fact that the driver is applying the brakes and controls the electronics in the EPMs via CAN-brake. Electronics within each EPM trigger their respective solenoid valves and evaluate the signals from the wheel speed sensors (implementing the ABS function when necessary) and brake wear sensors. The EPMs feed air to the brake actuators and control the pressure in accordance with the control input. The TCM controls the pressure in the trailer braking system and ensures minimal coupling forces. The pneumatic dual circuit design ensures that secondary braking performance requirements are achieved in the unlikely event of an EBS failure.

Faster brake reaction time, reduced stopping distance

Knorr-Bremse EBS results in braking pressure not only building up faster but also simultaneously in all brake actuators. This reduces the stopping distance since the brake pressure is applied directly by the EPMs to the actuators. The brakes respond without delay. At the same time, the excellent control sensitivity serves to increase braking comfort. The EBS coupling force control precisely matches the braking effects between towing vehicle and trailer. This ensures that both vehicles brake smoothly and at precisely the same time.

Less wear, longer service intervals

EBS results in an equal demand being placed on each brake. When the brakes are released, all the brake actuators are exhausted immediately. The EBS optimises brake management by utilising the effects of the retarder or engine brake to reduce load on the wheel brakes. Furthermore, brake wear control ensures that the brake pad/disc wear is uniform throughout their service life. This means an increase in the useful life of the brakes of up to 20%.

ESP Function

ESP only intervenes to restore directional stability when there is a difference between the driver's input (the direction wished for by the driver) and the vehicle's actual movement. During "understeer", i.e. when the vehicle travels on a greater radius than that defined by the steering wheel angle, the vehicle is turned back onto the 'correct' course by ESP applying the brakes at the inside rear wheel. In the case of "oversteer", the rear of the tractor drifts to the outside of the curve. In order to put the tractor/semi-trailer combination back on course, ESP now applies the brakes on the tractor's outside front wheel and all of the semi-trailer's wheels.

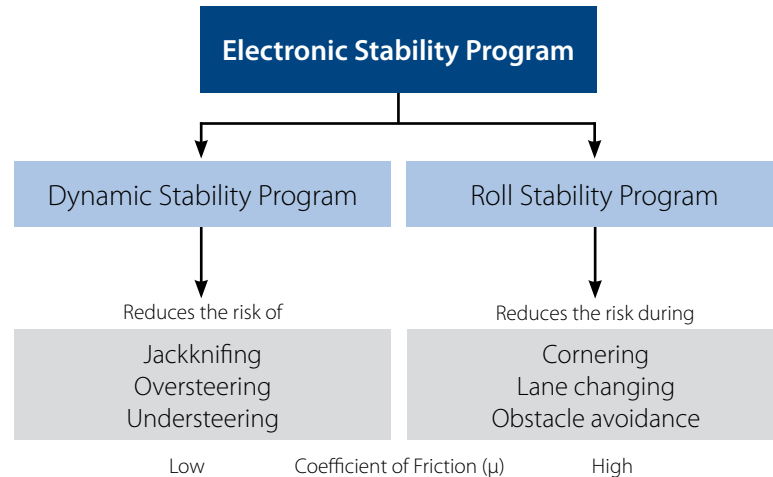
Protection against Roll-Over

Especially in the case of articulated vehicles, ESP reduces the possibility of roll-over occurring. The system evaluates a variety of different sensor signals and, with the help of lateral acceleration data, detects the possibility of roll-over at a very early stage. As a result, ESP reduces engine torque and the brakes are selectively applied via EBS. The vehicle slows down and the danger of roll over is reduced.

Without ESP



With ESP



Lifetime Efficiency – Knorr-Bremse Genuine Remanufactured EconX® EBS

In the highly competitive transport and logistics market, economical solutions are a must, especially when it comes to repairs. Knorr-Bremse Genuine Remanufactured EconX EBS products are service solutions for older vehicles that are genuine, economical and sustainable.

A genuine remanufacturing process is a highly industrialized and standardized process. In spite of great efforts in the return of old and used products (cores), the disassembling, the cleaning, the reconditioning, the testing and the reassembling of products – Knorr-Bremse can realize a cost advantage for the customer. This is especially attractive for owners of older vehicles, that have a reduced market value, and is supporting an economical value based repair. In addition to that, Knorr-Bremse remanufacturing as the highest form of recycling can realize e.g. 56% savings of CO2 emissions with EconX EBS5 2-Channel Module compared to the service new product.

Knorr-Bremse has more than 60 years' experience in the remanufacturing of original parts. With the opening of a centralized 12,000 m² specialized remanufacturing plant in Liberec, Czech Republic, Knorr-Bremse has expanded its capacity. Each step in the remanufacturing process is designed to meet Knorr-Bremse's very high quality and safety standards. That is also why final (re-)assembly and testing of remanufactured EBS products takes place on the same assembly lines that are used to manufacture the OE new products.

	Knorr-Bremse Service New EBS	Knorr-Bremse EconX® EBS (Genuine Remanufactured)
Warranty	12-month warranty (standard IAM Warranty)	
Replenishment lead time	As known	Additional 2 weeks as known from service new products
Technology	That of a new OE product: the latest series production technology	As close as possible to the latest series production technology, based on the remanufactured components
Life expectancy	In line with established OE product quality	Shorter than for service new products due to remanufactured components
Manufacturing process	Assembled on the same production lines as new OE products	
Testing	Tested and inspected according to the same parameters and standards as a new OE product	
Appearance	That of a new OE product	May have signs of use and include reconditioned parts
Housing colour	As known from OE new products: Anodized grey	Anodized grey or lacquered black and housings might be colored differently
Quality management system	Knorr-Bremse quality management system	
Recommended for	All vehicle ages	The current value related repair of older vehicles
Available product types	The full Knorr-Bremse product range	EconX EBS2 1Ch, 2Ch, TCM, FBM EconX EBS5 1Ch, 2Ch, TCM, FBM

NEO System Diagnostics

NEO Diagnostics: most braking systems, most manufacturers, most options.

Wherever trucks, trailers and buses are serviced, repaired or overhauled there is increasing demand for intelligent diagnostic tools for their electronic systems. Knorr-Bremse's response to this challenge is NEO System Diagnostics, a state-of-the-art generation of diagnostics that is unrivalled in terms of economy, performance, design and future proofing. Practical training is provided to ensure efficient use of the system from the very outset.

NEO is an innovative solution that offers automated testing and measurement routines enabling modern workshops to provide high integrity, professional diagnostic services for many types of commercial vehicle electronic braking systems. NEO is available in three main versions that provide a range of functionality designed to meet the specific requirements of different sizes and type of workshop. Depending upon the version selected, NEO can be directly linked to the braking system's ECU and the vehicle peripherals, and offers automatic or semi-automatic recognition of the braking system, irrespective of manufacturer or configuration.

NEO can communicate with the vehicle's electronic systems, carry out measurements, conduct diagnosis, provide clear service instructions and ultimately check that the servicing has been carried out correctly.

Inexpensive to purchase, the NEO diagnostics solution represents a future-proof investment as it can be updated/upgraded at any time. Users of earlier Knorr-Bremse diagnostics systems will also be able to use all of their existing peripherals with the NEO solution. NEO is user friendly and provides accessible, detailed advice on systems and service; in some cases using computer animation. Knorr-Bremse's NEO Training Courses provide practical training on the system's broad range of functions, either in-house or at a Knorr-Bremse training facility.

NEO | green



Part No: K019470N00

Basic diagnostics

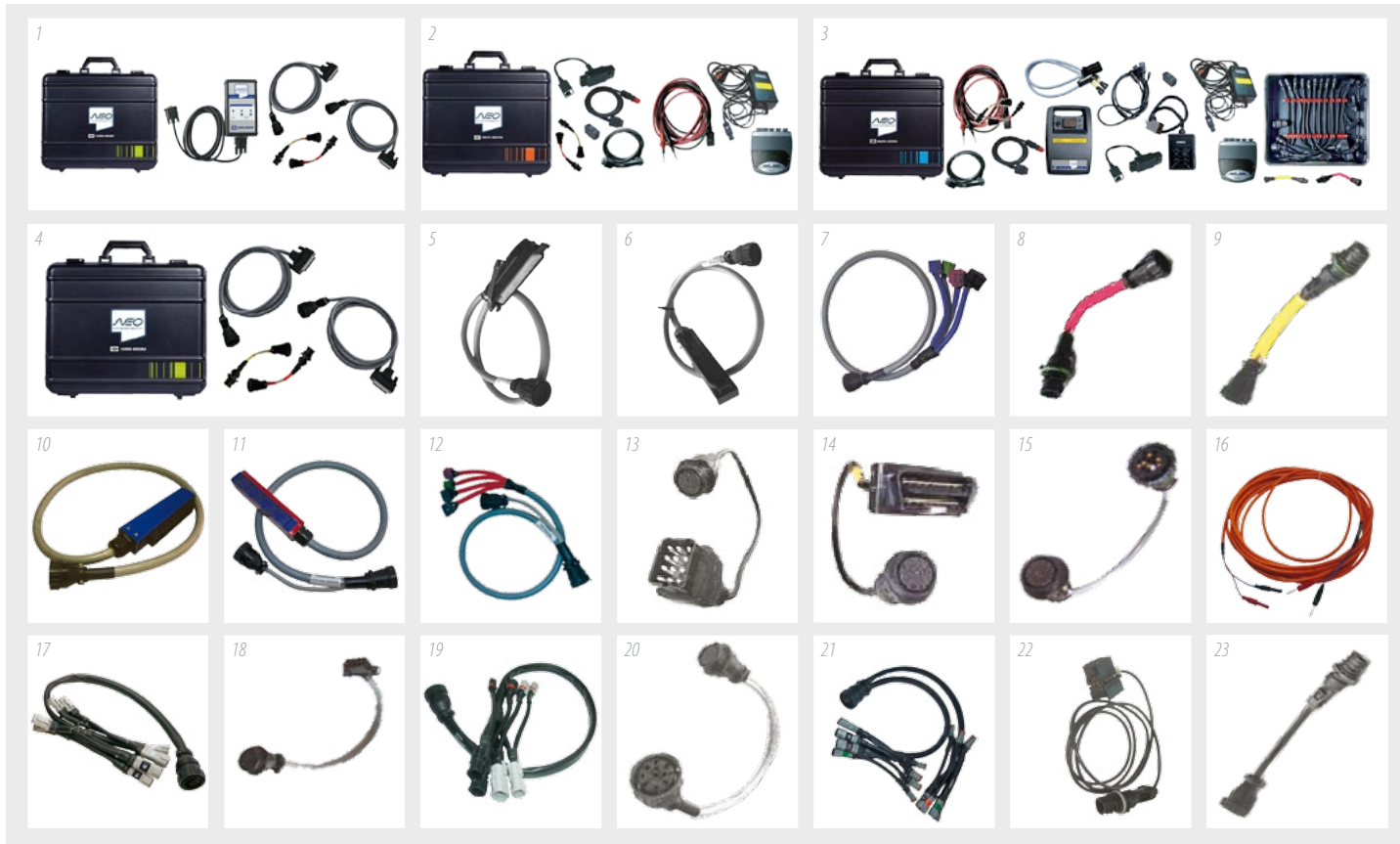
The easy-to-use NEO|green system provides an inexpensive introduction to the world of professional diagnostics for electronic braking systems. The robust hard case contains everything required for communication with the Electronic Control Unit (ECU) via the diagnostics interface, including a Universal Diagnostics Interface (UDIF) and a number of vehicle-specific adaptors. The NEO|green software runs on any Windows®-based computer that meets certain technical specifications. A DVD with the latest version of the software is also included in this introductory package. Should you require additional functionality from your diagnostics tool for more sophisticated requirements you can upgrade from NEO|green to NEO|orange or NEO|blue at any time.

Once the NEO | green software has been installed on a suitable PC, the diagnostics tool can communicate with many braking system ECUs.

NEO Connecting Cables



NEO CONNECTING CABLES



NEO CONNECTING CABLES



Part Number	Description	Vehicle Manufacturer	System(s)	Use with NEO system	Fig
K019470N00	NEO green Starter Kit		Various		1
K019471N00	NEO orange Starter Kit		Various		2
K025338N00	NEO blue Full Version Kit		Various		3
K025340N00	NEO green Upgrade Kit ¹⁾ (upgrade from ECUtalk®)		Various		4
K001113N00	EBS Connecting Cable (ECU)	Various	EBS 2.2/2.3	Blue	7
K001114N00	EBS Connecting Cable (Peripheral equipment)	Various	EBS 2.2/2.3	Blue	10
K012567N00	EBS Connecting Cable (ECU)	Scania	EBS 2.1 only	Blue	5

1) The NEO | green Upgrade Kit is specially designed for customers who already have the Knorr-Bremse ECUtalk® trailer software and would like to upgrade to NEO | green.

NEO CONNECTING CABLES

Part Number	Description	Vehicle Manufacturer	System(s)	Use with NEO system	Fig
K012568N00	EBS Connecting Cable (Peripheral equipment)	Scania	EBS 2.1 only	Blue	6
K017175N00	Connecting Cable 1 (red)		Various	Green, Orange & Blue	8
K017176N00	Connecting Cable 2 (yellow)		Various	Green, Orange & Blue	9
K017180N00	Truck/Bus	Renault Trucks	I8, EU12, ABS 2x, Wabco C, EBS 2 & Clutch (ECA)	Green, Orange & Blue	13
K017181N00	Truck/Bus - OBD	Truck/Bus	Various	Green, Orange & Blue	14
K017182N00	Truck/Bus	Scania	Gamma 2E/2P, Wabco C/D & EBS 2	Green, Orange & Blue	15
K017185N00	Truck/Bus	Volvo	KB92, EBS 2, Wabco C/D & Clutch (ECA)	Green, Orange & Blue	18
K017187N00	Truck/Bus - 12 pin	MAN	KB92, KB3AL, Gamma 2E/2M/3M & CI12	Green, Orange & Blue	20
K017500N00	Connecting Cable (Peripheral equipment)	Iveco, MAN, Renault Trucks, Scania & Volvo	EBS 5	Blue	11
K017501N00	Connecting Cable	Iveco, MAN, Renault Trucks, Scania & Volvo	EBS 5	Blue	12
K017503N00	EBS 5 ECU X1 CAN Adapter	Iveco, MAN, Renault Trucks, Scania & Volvo	EBS 5	Green, Orange & Blue	22
K018306N00	Connecting Cable 3 (black)		Various	Green, Orange & Blue	23
K018307N00	Connecting Cable 4 (blue)		Various	Green, Orange & Blue	24
K018308N00	Connecting Cable 5 (green)		Various	Green, Orange & Blue	25
K018310N00	Connecting Cable 6 (white)		Various	Green, Orange & Blue	26

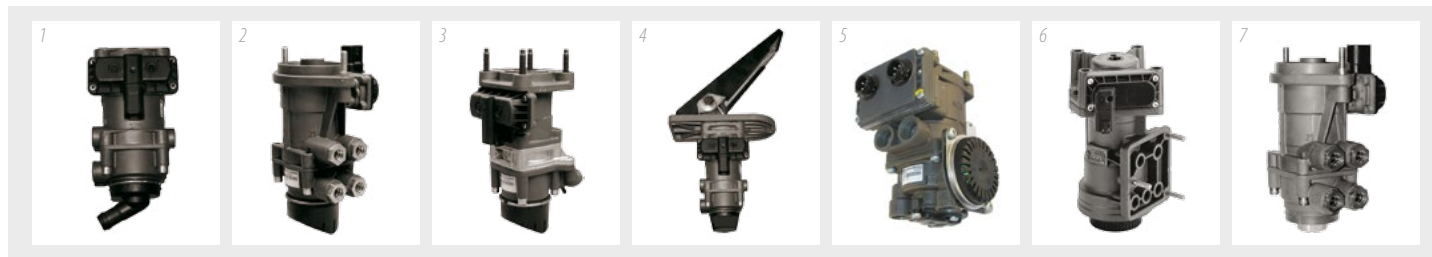
NEO CONNECTING CABLES

Part Number	Description	Vehicle Manufacturer	System(s)	Use with NEO system	Fig
K018312N00	UDIF to CAN Cable		Various	Green, Orange & Blue	27
K034101N00	EBS Breakout Box Cable (1-Channel EPM)	Scania, Renault Trucks & Volvo	EBS 5	Orange & Blue	28
K034102N00	EBS Breakout Box Cable (2-Channel EPM)	Scania, Renault Trucks & Volvo	EBS 5	Orange & Blue	29
K034103N00	EBS Breakout Box Cable (1-Channel EPM)	MAN	EBS 5	Orange & Blue	30
K034104N00	EBS Breakout Box Cable (2-Channel EPM)	MAN	EBS 5	Orange & Blue	29
Z007887	Connecting Cable (UDIF to PC - USB)		Various	Green	32
II39557F	Pressure Testing Set		Various	Orange & Blue	33
K001166N00	EBS Breakout Box		EBS	Orange & Blue	34
K015615N00	Wireless Card for CMU	Various	Various	Orange & Blue	35
K001344N00	Measuring Adapter Cable (Test Probes)		Various	Orange & Blue	16
K001345N00	Measuring Adapter Cable (Deutsch Plug, 1-Channel EPM)		EBS 2.2/2.3	Orange & Blue	17
K001346N00	Measuring Adapter Cable (G+H Plug, 1-Channel EPM)		EBS 2.2/2.3	Orange & Blue	19
K001347N00	Measuring Adapter Cable (Deutsch Plug, 2-Channel EPM)		EBS 2.2/2.3	Orange & Blue	21
K001348N00	Measuring Adapter Cable (G+H Plug, 2-Channel EPM)		EBS 2.2/2.3	Orange & Blue	31

Foot Brake Modules (FBM)



FOOT BRAKE MODULES (FBM)



OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes	Fig.
Iveco - Irisbus	K005485	EBS 5	K024928N50		4
Iveco - Irisbus	K024928	EBS 5	K024928N50		4
MAN	K039530	EBS 2	K039530N50		2
MAN	Z002932	EBS 2	K039546N50		7
MAN	0486200006	EBS 2	K039544N50		2
MAN	0486200007	EBS 2	K039530N50		2
MAN	0486200007	EBS 2	K039530X50	** EconX	2
MAN	0486200011	EBS 2	K039544N50		2
MAN	K039544	EBS 2	K039544N50		2
MAN	K039546	EBS 2	K039546N50		7
MAN	K000926	EBS 5	K039569N50		2
MAN	K000926	EBS 5	K039569X50	** EconX	2
MAN	K007145	EBS 5	K039571N50		2

** Knorr-Bremse Genuine Remanufactured Product

FOOT BRAKE MODULES (FBM)

OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes	Fig.
MAN	K039569	EBS 5.X	K039569N50		2
MAN	K039571	EBS 5.X	K039571N50		2
Mercedes	I137181	EBS 4	I137181N50		5
Mercedes	K014773	EBS 5.1	K014773N50	7)	
Renault	0486200101	EBS 2	0486200101N50		3
Renault	0486200103	EBS 2	0486200101N50		3
Renault	0486200104	EBS 2	0486200104N50		3
Renault	0486200104	EBS 2	0486200104X50	** EconX	3
Renault	0486200105	EBS 2	0486200104N50		3
Renault	K001428	EBS 5	K040158N50		3
Renault	K001428	EBS 5	K040158X50	** EconX	3
Renault	K001894	EBS 5	K040156N50		3
Renault	K001894	EBS 5	K040156X50	** EconX	3
Renault	K040158	EBS 5.X	K040158N50		3
Renault	K040158	EBS 5.X	K040158X50	** EconX	3
Renault	K040156	EBS 5.X	K040156N50		3
Renault	K040156	EBS 5.X	K040156X50	** EconX	3
Renault	K046640	EBS 7	K103367K50	3)	
Scania	0486200002	EBS 2	0486200008N50		6

3) Only available as kit incl. 4 nuts & grease

7) Not available before 2017

** Knorr-Bremse Genuine Remanufactured Product

FOOT BRAKE MODULES (FBM)

OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes	Fig.
Scania	0486200008	EBS 2	0486200008N50		6
Scania	0486200008	EBS 2	0486200008X50	** EconX	6
Scania	0486200009	EBS 2	0486200008N50		6
Scania	K000087	EBS 5	K044696N50		3
Scania	K000087	EBS 5	K044696X50	** EconX	3
Scania	K001973	EBS 5	K044694N50		1
Scania	K044696	EBS 5.X	K044696N50		3
Scania	K044696	EBS 5.X	K044696X50	** EconX	3
Scania	K044694	EBS 5.X	K044694N50		1
Scania	K055628	EBS 7	K055628N50	4)	
Volvo	0486200004	EBS 2	0486200004N50		1
Volvo	0486200004	EBS 2	0486200004X50	** EconX	1
Volvo	0486200005	EBS 2	0486200004N50		1
Volvo	0486200005	EBS 2	0486200004X50	** EconX	1
Volvo	0486200202	EBS 2	0486200202N50		4
Volvo	0486200203	EBS 2	0486200202N50		4
Volvo	K000928	EBS 5	K040159N50		1
Volvo	K000928	EBS 5	K040159X50	** EconX	1
Volvo	K040159	EBS 5.X	K040159N50		1
Volvo	K040159	EBS 5.X	K040159X50	** EconX	1

4) Not available before 2018

** Knorr-Bremse Genuine Remanufactured Product

FOOT BRAKE MODULES (FBM)

OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes	Fig.
Volvo	K001974	EBS 5	K024928N50		4
Volvo	K001974	EBS 5	K024928X50	** EconX	4
Volvo	K024928	EBS 5	K024928N50		4
Volvo	K024928	EBS 5	K024928X50	** EconX	4
Volvo	K040156	EBS 5	K040156N50		3
Volvo	K040156	EBS 5	K040156X50	** EconX	3
Volvo	K021231	EBS 5	K024928N50		4
Volvo	K021231	EBS 5	K024928X50	** EconX	4
Volvo	K027386	EBS 7	K103367K50	3)	

3) Only available as kit incl. 4 nuts & grease

** Knorr-Bremse Genuine Remanufactured Product

Electronic Control Unit (ECU)





Note: all replacement EBS electronic control units require programming either using data mirroring (which can be carried out using the NEO System diagnostics) or by the Vehicle Manufacturer with suitable dataset.

OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes
Iveco - Irisbus	0486106072	EBS 5	0486106307N50	
Iveco - Irisbus	0486106073	EBS 5	0486106307N50	
Iveco - Irisbus	0486106088	EBS 5	0486106307N50	
Iveco - Irisbus	0486106109	EBS 5.X	0486106314N50	
MAN	0486106018	EBS 2.2	0486106042N50	
MAN	0486106015	EBS 2.2		1)
MAN	0486106019	EBS 2.2	0486106019N50	
MAN	0486106012	EBS 2.2		1)
MAN	0486106027	EBS 2.3	0486106042N50	
MAN	0486106029	EBS 2.3	0486106042N50	
MAN	0486106041	EBS 2.3	0486106042N50	

1) Not available in IAM

ELECTRONIC CONTROL UNITS (ECU)

OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes
MAN	0486106042	EBS 2.3	0486106042N50	
MAN	0486106051	EBS 5	0486106303N50	
MAN	0486106052	EBS 5	0486106303N50	
MAN	0486106070	EBS 5	0486106303N50	
MAN	0486106071	EBS 5	0486106303N50	
MAN	0486106082	EBS 5	0486106303N50	
MAN	0486106083	EBS 5	0486106303N50	
MAN	0486106086	EBS 5	0486106303N50	
MAN	0486106087	EBS 5	0486106303N50	
MAN	0486106089	EBS 5	0486106303N50	
MAN	0486106090	EBS 5	0486106303N50	
MAN	0486106301	EBS 5	0486106303N50	
MAN	0486106100	EBS 5.X	0486106309N50	
MAN	0486106118	EBS 5.X	0486106309N50	
MAN	0486106129	EBS 5.X	0486106309N50	
MAN	0486106101	EBS 5.X	0486106308N50	
MAN	0486106130	EBS 5.X	0486106308N50	
MAN	0486106136	EBS 5.X	0486106308N50	
MAN	0486106119	EBS 5.X	0486106308N50	
MAN	0486106114	EBS 5.X	0486106309N50	
MAN	0486106120	EBS 5.X	0486106309N50	

ELECTRONIC CONTROL UNITS (ECU)

OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes
MAN	0486106131	EBS 5.X	0486106309N50	
MAN	0486106135	EBS 5.X	0486106309N50	
Mercedes	1136407	EBS 4		1)
Mercedes	1140400	EBS 4		1)
Renault	0486106014	EBS 2.2	0486106024N50	
Renault	0486106024	EBS 2.2	0486106024N50	
Renault	0486106057	EBS 5	0486106305N50	
Renault	0486106067	EBS 5	0486106305N50	
Renault	0486106069	EBS 5	0486106305N50	
Renault	0486106074	EBS 5	0486106305N50	
Renault	0486106077	EBS 5	0486106305N50	
Renault	0486106078	EBS 5	0486106305N50	
Renault	0486106079	EBS 5	0486106305N50	
Renault	0486106080	EBS 5	0486106305N50	
Renault	0486106081	EBS 5	0486106305N50	
Renault	0486106084	EBS 5	0486106305N50	
Renault	0486106085	EBS 5	0486106305N50	
Renault	0486106110	EBS 5.X	0486106312N50	
Renault	0486106111	EBS 5.X	0486106312N50	
Renault	0486106112	EBS 5.X	0486106312N50	

1) Not available in IAM

ELECTRONIC CONTROL UNITS (ECU)

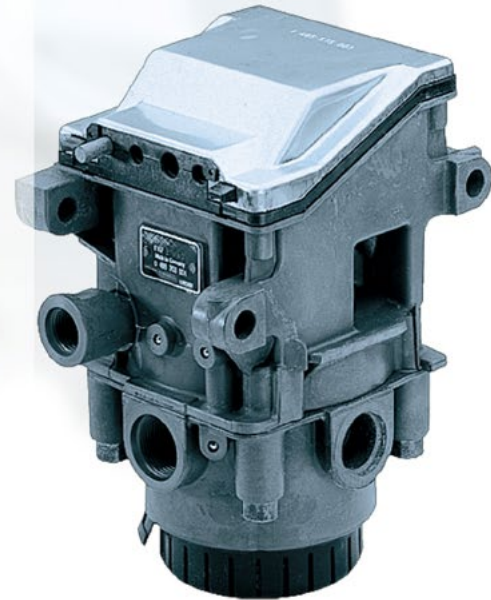
OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes
Renault	0486106115	EBS 5.X	0486106312N50	
Renault	0486106123	EBS 5.X	0486106312N50	
Renault	0486106139	EBS 5.X	0486106312N50	
Renault	0486106116	EBS 5.X	0486106312N50	
Renault	0486106124	EBS 5.X	0486106312N50	
Renault	0486106138	EBS 5.X	0486106312N50	
Renault	0486106117	EBS 5.X	0486106312N50	
Scania	0486106001	EBS 2.0		1)
Scania	0486106008	EBS 2.1	0486106008N50	
Scania	0486106010	EBS 2.2	0486106021N50	
Scania	0486106021	EBS 2.2	0486106021N50	
Scania	0486106050	EBS 5	0486106306N50	
Scania	0486106065	EBS 5	0486106306N50	
Scania	0486106104	EBS 5.X	0486106310N50	
Scania	0486106105	EBS 5.X	0486106310N50	
Scania	0486106121	EBS 5.X	0486106329N50	
Scania	0486106122	EBS 5.X	0486106329N50	
Scania	0486106128	EBS 5.X	0486106329N50	
Volvo	0486106006	EBS 2.2	0486106020N50	
Volvo	0486106016	EBS 2.2	0486106020N50	

1) Not available in IAM

ELECTRONIC CONTROL UNITS (ECU)

OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes
Volvo	0486106020	EBS 2.2	0486106020N50	
Volvo	0486106026	EBS 2.3	0486106028N50	
Volvo	0486106028	EBS 2.3	0486106028N50	
Volvo	0486106063	EBS 5	0486106304N50	
Volvo	0486106064	EBS 5	0486106304N50	
Volvo	0486106068	EBS 5	0486106304N50	
Volvo	0486106102	EBS 5.X	0486106311N50	
Volvo	0486106103	EBS 5.X	0486106311N50	
Volvo	0486106126	EBS 5.X	0486106311N50	
SOE	0486106106	EBS 5.X	0486106106N50	
SOE	0486106107	EBS 5.X	0486106106N50	

1-Channel Electro- Pneumatic Module (EPM)



1-CHANNEL ELECTRO-PNEUMATIC MODULES (EPM)



OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes	Fig.
Iveco - Irisbus	K005496	EBS 5	K023219N50		3
Iveco - Irisbus	K023219	EBS 5.X	K023219N50		3
MAN	0486203012	EBS 2.2	0486203023N50		1
MAN	0486203012	EBS 2.2	0486203023X50	** EconX	1
MAN	0486203013	EBS 2.2	0486203023N50		1
MAN	0486203013	EBS 2.2	0486203023X50	** EconX	1
MAN	0486203016	EBS 2.2	0486203023N50		1
MAN	0486203016	EBS 2.2	0486203023X50	** EconX	1
MAN	0486203023	EBS 2.2	0486203023N50		1
MAN	0486203023	EBS 2.2	0486203023X50	** EconX	1
MAN	0486203032	EBS 2.3	0486203023N50		1
MAN	0486203032	EBS 2.3	0486203023X50	** EconX	1
MAN	K000913	EBS 5	K021204N50		3

** Knorr-Bremse Genuine Remanufactured Product

1-CHANNEL ELECTRO-PNEUMATIC MODULES (EPM)

OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes	Fig.
MAN	K000913	EBS 5	K021204X50	** EconX	3
MAN	K021204	EBS 5.X	K021204N50		3
MAN	K021204	EBS 5.X	K021204X50	** EconX	3
MAN	K050211	EBS7	K050211N50	2)	4
Mercedes	1137083	EBS 4	1137083N50		2
Mercedes	K102408	EBS 5.1	K102408N50	7)	3
Renault	0486203030	EBS 2.2	0486203030N50		1
Renault	0486203030	EBS 2.2	0486203030X50	** EconX	1
Renault	0486203004	EBS 2.2	0486203030N50		1
Renault	0486203004	EBS 2.2	0486203030X50	** EconX	1
Renault	0486203017	EBS 2.2	0486203030N50		1
Renault	0486203017	EBS 2.2	0486203030X50	** EconX	1
Renault	0486203002	EBS 2.1	0486203030N50		1
Renault	0486203002	EBS 2.1	0486203030X50	** EconX	1
Renault	0486203028	EBS 2.2	0486203030N50		1
Renault	0486203028	EBS 2.2	0486203030X50	** EconX	1
Renault	0486203031	EBS 2.2	0486203030N50		1
Renault	0486203031	EBS 2.2	0486203030X50	** EconX	1
Renault	0486203034	EBS 2.3	0486203030N50		1

2) Not available before Q4.2016

7) Not available before 2017

** Knorr-Bremse Genuine Remanufactured Product

1-CHANNEL ELECTRO-PNEUMATIC MODULES (EPM)

OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes	Fig.
Renault	0486203034	EBS 2.3	0486203030X50	** EconX	1
Renault	K000914	EBS 5	K021203N50		3
Renault	K000914	EBS 5	K021203X50	** EconX	3
Renault	K021203	EBS 5.X	K021203N50		3
Renault	K021203	EBS 5.X	K021203X50	** EconX	3
Renault	K093190	EBS 7	K093190N50		4
Scania	0486203001	EBS 2.0		1)	
Scania	0486203005	EBS 2.1	0486203025N50		1
Scania	0486203005	EBS 2.1	0486203025X50	** EconX	1
Scania	0486203009	EBS 2.2	0486203025N50		1
Scania	0486203009	EBS 2.2	0486203025X50	** EconX	1
Scania	0486203025	EBS 2.2	0486203025N50		1
Scania	0486203025	EBS 2.2	0486203025X50	** EconX	1
Scania	0486203026	EBS 2.2	0486203025N50		1
Scania	0486203026	EBS 2.2	0486203025X50	** EconX	1
Scania	K000085	EBS 5	K021202N50		3
Scania	K000085	EBS 5	K021202X50	** EconX	3
Scania	K021202	EBS 5.X	K021202N50		3
Scania	K021202	EBS 5.X	K021202X50	** EconX	3
Scania	K050214	EBS 7	K050214N50	4)	4

1) Not available in IAM

4) Not available before 2018

** Knorr-Bremse Genuine Remanufactured Product

1-CHANNEL ELECTRO-PNEUMATIC MODULES (EPM)

OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes	Fig.
Volvo	0486203006	EBS 2.2	0486203033N50		1
Volvo	0486203006	EBS 2.2	0486203033X50	** EconX	1
Volvo	0486203014	EBS 2.2	0486203033N50		1
Volvo	0486203014	EBS 2.2	0486203033X50	** EconX	1
Volvo	0486203022	EBS 2.3	0486203033N50		1
Volvo	0486203022	EBS 2.3	0486203033X50	** EconX	1
Volvo	0486203024	EBS 2.3	0486203033N50		1
Volvo	0486203024	EBS 2.3	0486203033X50	** EconX	1
Volvo	0486203033	EBS 2.3	0486203033N50		1
Volvo	0486203033	EBS 2.3	0486203033X50	** EconX	1
Volvo	K000914	EBS 5	K021203N50		3
Volvo	K000914	EBS 5	K021203X50	** EconX	3
Volvo	K021203	EBS 5.X	K021203N50		3
Volvo	K021203	EBS 5.X	K021203X50	** EconX	3
Volvo	K093190	EBS 7	K093190N50		4
SOE	K010416	EBS 5	K021202N50		3
SOE	K010416	EBS 5	K021202X50	** EconX	3
SOE	K023220	EBS 5.X	K021202N50		3
SOE	K023220	EBS 5.X	K021202X50	** EconX	3

** Knorr-Bremse Genuine Remanufactured Product

2-Channel Electro- Pneumatic Module (EPM)



2-CHANNEL ELECTRO-PNEUMATIC MODULES (EPM)



OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes	Fig.
Iveco - Irisbus	K005498	EBS 5	K023213N50		2
Iveco - Irisbus	K023213	EBS 5.X	K023213N50		2
MAN	0486204008	EBS 2.2	0486204017N50		1
MAN	0486204008	EBS 2.2	0486204017X50	** EconX	1
MAN	0486204009	EBS 2.2	0486204017N50		1
MAN	0486204009	EBS 2.2	0486204017X50	** EconX	1
MAN	0486204012	EBS 2.2	0486204017N50		1
MAN	0486204012	EBS 2.2	0486204017X50	** EconX	1
MAN	0486204017	EBS 2.3	0486204017N50		1
MAN	0486204017	EBS 2.3	0486204017X50	** EconX	1
MAN	0486204024	EBS 2.3	0486204017N50		1
MAN	0486204024	EBS 2.3	0486204017X50	** EconX	1
MAN	K000921	EBS 5	K020024N50		2

** Knorr-Bremse Genuine Remanufactured Product

2-CHANNEL ELECTRO-PNEUMATIC MODULES (EPM)

OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes	Fig.
MAN	K000921	EBS 5	K020024X50	** EconX	2
MAN	K015441	EBS 5	K023216N50		3
MAN	K020024	EBS 5.X	K020024N50		2
MAN	K020024	EBS 5.X	K020024X50	** EconX	2
MAN	K023216	EBS 5.X	K023216N50		3
MAN	K050209	EBS 7	K050209N50		4
MAN	K050210	EBS 7	K050209N50		4
Mercedes	K102407	EBS 5.1	K102407N50	7)	
Renault	0486204001	EBS 2.1	0486204021N50		1
Renault	0486204001	EBS 2.1	0486204021X50	** EconX	1
Renault	0486204021	EBS 2.1	0486204021N50		1
Renault	0486204021	EBS 2.1	0486204021X50	** EconX	1
Renault	0486204002	EBS 2.2	0486204021N50		1
Renault	0486204002	EBS 2.2	0486204021X50	** EconX	1
Renault	0486204023	EBS 2.2	0486204021N50		1
Renault	0486204023	EBS 2.2	0486204021X50	** EconX	1
Renault	0486204026	EBS 2.2	0486204021N50		1
Renault	0486204026	EBS 2.2	0486204021X50	** EconX	1
Renault	K000922	EBS 5	K020023N50		2
Renault	K000922	EBS 5	K020023X50	** EconX	2

7) Not available before 2017

** Knorr-Bremse Genuine Remanufactured Product

2-CHANNEL ELECTRO-PNEUMATIC MODULES (EPM)

OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes	Fig.
Renault	K000923	EBS 5	K023215N50		3
Renault	K001411	EBS 5	K020023N50		2
Renault	K001411	EBS 5	K020023X50	** EconX	2
Renault	K020022	EBS 5.X	K020023N50		2
Renault	K020022	EBS 5.X	K020023X50	** EconX	2
Renault	K020023	EBS 5.X	K020023N50		2
Renault	K020023	EBS 5.X	K020023X50	** EconX	2
Renault	K023215	EBS 5.X	K023215N50		3
Renault	K093192	EBS 7	K093192N50		4
Scania	0486204004	EBS 2.2	0486204019N50		1
Scania	0486204004	EBS 2.2	0486204019X50	** EconX	1
Scania	0486204006	EBS 2.2	0486204019N50		1
Scania	0486204006	EBS 2.2	0486204019X50	** EconX	1
Scania	0486204019	EBS 2.2	0486204019N50		1
Scania	0486204019	EBS 2.2	0486204019X50	** EconX	1
Scania	0486204020	EBS 2.2	0486204019N50		1
Scania	0486204020	EBS 2.2	0486204019X50	** EconX	1
Scania	K000086	EBS 5	K032014N50		2
Scania	K000086	EBS 5	K032014X50	** EconX	2
Scania	K000088	EBS 5	K032014N50		2

** Knorr-Bremse Genuine Remanufactured Product

2-CHANNEL ELECTRO-PNEUMATIC MODULES (EPM)

OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes	Fig.
Scania	K000088	EBS 5	K032014X50	** EconX	2
Scania	K016255	EBS 5	K032014N50		2
Scania	K016255	EBS 5	K032014X50	** EconX	2
Scania	K020020	EBS 5.X	K032014N50		2
Scania	K020020	EBS 5.X	K032014X50	** EconX	2
Scania	K020021	EBS 5.X	K032014N50		2
Scania	K020021	EBS 5.X	K032014X50	** EconX	2
Scania	K032014	EBS 5.X	K032014N50		2
Scania	K032014	EBS 5.X	K032014X50	** EconX	2
Scania	K125218	EBS 7	K125218N50	4)	
Volvo	0486204005	EBS 2.2	0486204025N50		1
Volvo	0486204005	EBS 2.2	0486204025X50	** EconX	1
Volvo	0486204010	EBS 2.2	0486204025N50		1
Volvo	0486204010	EBS 2.2	0486204025X50	** EconX	1
Volvo	0486204016	EBS 2.3	0486204025N50		1
Volvo	0486204016	EBS 2.3	0486204025X50	** EconX	1
Volvo	0486204018	EBS 2.3	0486204025N50		1
Volvo	0486204018	EBS 2.3	0486204025X50	** EconX	1
Volvo	0486204025	EBS 2.3	0486204025N50		1
Volvo	0486204025	EBS 2.3	0486204025X50	** EconX	1

4) Not available before 2018

** Knorr-Bremse Genuine Remanufactured Product

2-CHANNEL ELECTRO-PNEUMATIC MODULES (EPM)

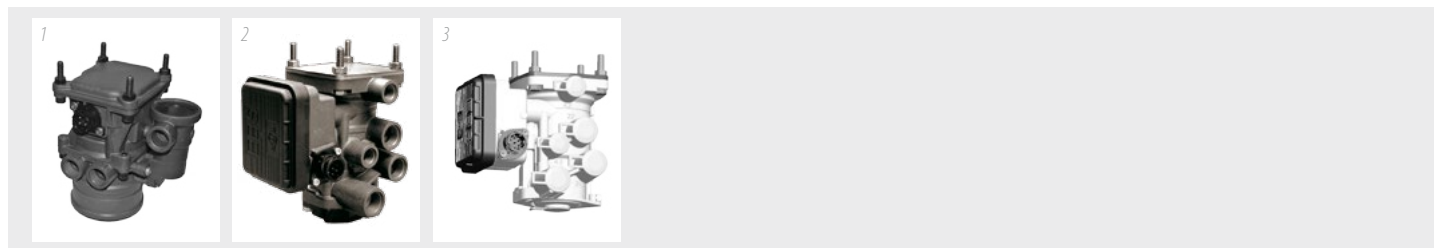
OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes	Fig.
Volvo	K000922	EBS 5	K020023N50		2
Volvo	K000922	EBS 5	K020023X50	** EconX	2
Volvo	K001411	EBS 5	K020023N50		2
Volvo	K001411	EBS 5	K020023X50	** EconX	2
Volvo	K020022	EBS 5.X	K020023N50		2
Volvo	K020022	EBS 5.X	K020023X50	** EconX	2
Volvo	K020023	EBS 5.X	K020023N50		2
Volvo	K020023	EBS 5.X	K020023X50	** EconX	2
Volvo	K093192	EBS 7	K093192N50		4
SOE	K010415	EBS 5	K032014N50		2
SOE	K010415	EBS 5	K032014X50	** EconX	2
SOE	K023217	EBS 5.X	K032014N50		2
SOE	K023217	EBS 5.X	K032014X50	** EconX	2

** Knorr-Bremse Genuine Remanufactured Product

Trailer Control Module (TCM)



TRAILER CONTROL MODULES (TCM)



OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes	Fig.
MAN	0486205004	EBS 2.2	0486205022N50		1
MAN	0486205004	EBS 2.2	0486205022X50	** EconX	1
MAN	0486205010	EBS 2.2	0486205022N50		1
MAN	0486205010	EBS 2.2	0486205022X50	** EconX	1
MAN	0486205011	EBS 2.2	0486205022N50		1
MAN	0486205011	EBS 2.2	0486205022X50	** EconX	1
MAN	0486205016	EBS 2.2	0486205022N50		1
MAN	0486205016	EBS 2.2	0486205022X50	** EconX	1
MAN	0486205022	EBS 2.3	0486205022N50		1
MAN	0486205022	EBS 2.3	0486205022X50	** EconX	1
MAN	K000917	EBS 5	K020623N50		2
MAN	K000917	EBS 5	K020623X50	** EconX	2
MAN	K020623	EBS 5.X	K020623N50		2

** Knorr-Bremse Genuine Remanufactured Product

TRAILER CONTROL MODULES (TCM)

OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes	Fig.
MAN	K020623	EBS 5.X	K020623X50	** EconX	2
Mercedes	K000920	EBS 5.1	K000920N50	7)	
Renault	0486205006	EBS 2.2	0486205022N50		1
Renault	0486205006	EBS 2.2	0486205022X50	** EconX	1
Renault	0486205017	EBS 2.2	0486205022N50		1
Renault	0486205017	EBS 2.2	0486205022X50	** EconX	1
Renault	K000919	EBS 5	K020623N50		2
Renault	K000919	EBS 5	K020623X50	** EconX	2
Renault	K016060	EBS 5	K020626N50		3
Renault	K016060	EBS 5	K020626X50	** EconX	3
Renault	K020626	EBS 5.X	K020626N50		3
Renault	K020626	EBS 5.X	K020626X50	** EconX	3
Renault	K028781	EBS 7	K028781N50		
Scania	0486205001	EBS 2.2	0486205014N50		1
Scania	0486205001	EBS 2.2	0486205014X50	** EconX	1
Scania	0486205003	EBS 2.2	0486205014N50		1
Scania	0486205003	EBS 2.2	0486205014X50	** EconX	1
Scania	0486205014	EBS 2.2	0486205014N50		1
Scania	0486205014	EBS 2.2	0486205014X50	** EconX	1
Scania	0486205020	EBS 2.2	0486205014N50		1

7) Not available before 2017

** Knorr-Bremse Genuine Remanufactured Product

TRAILER CONTROL MODULES (TCM)

OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes	Fig.
Scania	0486205020	EBS 2.2	0486205014X50	** EconX	1
Scania	K000089	EBS 5	K020623N50		2
Scania	K000089	EBS 5	K020623X50	** EconX	2
Scania	K020622	EBS 5.X	K020623N50		2
Scania	K020622	EBS 5.X	K020623X50	** EconX	2
Scania	K103131	EBS 7	K103131N50	4)	
Volvo	0486205002	EBS 2.2	0486205022N50		1
Volvo	0486205002	EBS 2.2	0486205022X50	** EconX	1
Volvo	0486205008	EBS 2.2	0486205022N50		1
Volvo	0486205008	EBS 2.2	0486205022X50	** EconX	1
Volvo	0486205015	EBS 2.2	0486205022N50		1
Volvo	0486205015	EBS 2.2	0486205022X50	** EconX	1
Volvo	0486205019	EBS 2.3	0486205022N50		1
Volvo	0486205019	EBS 2.3	0486205022X50	** EconX	1
Volvo	K000918	EBS 5	K020624N50		2
Volvo	K000918	EBS 5	K020624X50	** EconX	2
Volvo	K000919	EBS 5	K020623N50		2
Volvo	K000919	EBS 5	K020623X50	** EconX	2
Volvo	K020624	EBS 5.X	K020624N50		2
Volvo	K020624	EBS 5.X	K020624X50	** EconX	2

4) Not available before 2018

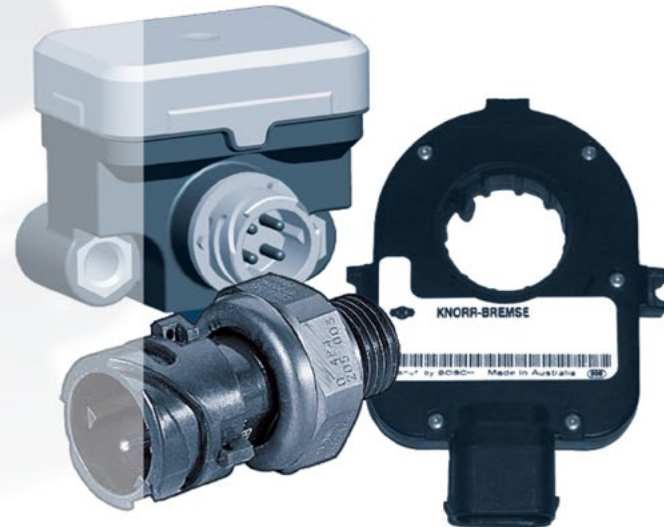
** Knorr-Bremse Genuine Remanufactured Product

TRAILER CONTROL MODULES (TCM)

OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes	Fig.
Volvo	K020625	EBS 5.X	K020623N50		2
Volvo	K020625	EBS 5.X	K020623X50	** EconX	2
Volvo	K028781	EBS 7	K028781N50		
SOE	K023711	EBS 5.X	K020623N50		2
SOE	K023711	EBS 5.X	K020623X50	** EconX	2

** Knorr-Bremse Genuine Remanufactured Product

EBS Sensors





OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes	Fig.
SAS - STEERING ANGLE SENSORS					
Iveco - Irisbus	0486021010	EBS 2 & 5	0486021025N50	2), 5)	4
MAN	0486021002	EBS 2 & 5	0486021025N50	2), 5)	4
MAN	0486021034	EBS 2 & 5	0486021035N50	5)	5
Scania	0486021003	EBS 2 & 5	0486021028N50	2), 5)	5
Scania	K097326	EBS 7	K097326N50	4), 5)	5
Volvo	0486021001	EBS 2 & 5	0486021028N50	2), 5)	5
SOE	0486021007	EBS 2 & 5	0486021025N50	2), 5)	4

2) Not available before Q4. 2016

4) Not available before 2018

5) All Yaw Rate & Steering Angle Sensors require calibrating after installation, this can be carried out with NEO System diagnostics

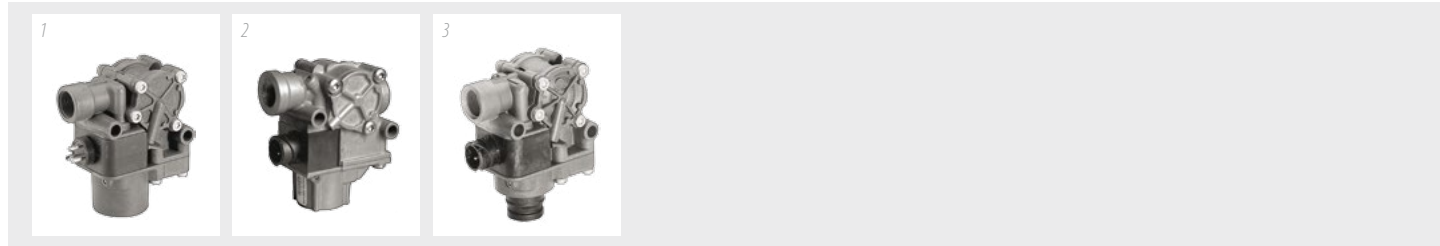
OE Manufacturer	Basic Part Number	System	IAM Part Number	Notes	Fig.
YRS - YAW RATE SENSORS					
Iveco - Irisbus	0486020009	EBS 2 & 5	0486020007N50	5)	2
Iveco - Irisbus	K020568	EBS 5.X	K020568N50	5)	3
MAN	0486020002	EBS 2 & 5	0486020007N50	5)	2
MAN	K020568	EBS 5.X	K020568N50	5)	3
Mercedes	K092229	EBS 5.1	K092229N50	5)	3
Renault	0486020001	EBS 2 & 5	0486020007N50	5)	2
Renault	K020568	EBS 5.X	K020568N50	5)	3
Scania	0486020003	EBS 2 & 5	0486020007N50	5)	2
Scania	K020568	EBS 5.X	K020568N50	5)	3
Volvo	0486020001	EBS 2 & 5	0486020007N50	5)	2
Volvo	K020568	EBS 5.X	K020568N50	5)	3
SOE	0486020007	EBS 2 & 5	0486020007N50	5)	2
SOE	K020568	EBS 5.X	K020568N50	5)	3
PRESSURE SENSORS					
Renault	0484205004	EBS 2 & 5	0484205006N50		1
Renault	0484205006	EBS 2 & 5	0484205006N50		1
Scania	0484205003	EBS 2 & 5	0484205006N50		1
Volvo	0484205007	EBS 2 & 5	0484205006N50		1

5) All Yaw Rate & Steering Angle Sensors require calibrating after installation, this can be carried out with NEO System diagnostics

Pressure Control Valves



PRESSURE CONTROL VALVES



OE Manufacturer	Basic Part Number	Type No.	Electrical Connection	Compressed Air Port	IAM Part Number	Notes	Fig.
Iveco - Irisbus	II15492	BR9150	Schlemmer Bayonet (24V)	VOSS 230, VOSS 232 or M22x1,5	K0384382N50	6)	2
Iveco - Irisbus	II17776	BR9154	DIN Bayonet (24V)	VOSS 230, VOSS 232 or M22x1,5	K038438N50		2
MAN	0265351118		DIN Bayonet (24V)	VOSS 230, VOSS 232 or M22x1,5	K038438N50		2
MAN	II40864F	BR9159	DIN Bayonet (24V)	VOSS 230, VOSS 232 or M22x1,5	K038438N50		2
MAN	II38665F	BR9182	DIN Bayonet (24V)	VOSS 230, VOSS 232 or M22x1,5	K038438N50		2
Mercedes	0265351122		DIN Bayonet (24V)	VOSS 230, VOSS 232 or M22x1,5	K038438N50		2
Mercedes	0486201017		DIN Bayonet (24V)	VOSS 230, VOSS 232 or M22x1,5	K093488N50		3

6) Supplied with adapter cable

PRESSURE CONTROL VALVES

OE Manufacturer	Basic Part Number	Type No.	Electrical Connection	Compressed Air Port	IAM Part Number	Notes	Fig.
Mercedes	0265351101		Kostal M24x1 (24V)	DIN	K0384381N50	6)	1
Mercedes	1116278	BR9152	Kostal M24x1 (24V)	DIN	K0384381N50	6)	1
Mercedes	1117776	BR9154	DIN Bayonet (24V)	VOSS 230, VOSS 232 or M22x1,5	K038438N50		2
Mercedes	1137086	BR9180	DIN Bayonet (24V)	VOSS 230, VOSS 232 or M22x1,5	K038438N50		2
Renault	1141119F	BR9191	DIN Bayonet (24V)	VOSS 230, VOSS 232 or M22x1,5	K038438N50		2
Renault	0265351118		DIN Bayonet (24V)	VOSS 230, VOSS 232 or M22x1,5	K038438N50		2
Scania	1116278	BR9152	Kostal M24x1 (24V)	DIN	K0384381N50	6)	1
Scania	1132612	BR9156	DIN Bayonet (24V)	VOSS 230, VOSS 232 or M22x1,5	K038438N50		2
Scania	0265351101		Kostal M24x1 (24V)	DIN	K0384381N50	6)	1
Volvo	1138665F	BR9182	DIN Bayonet (24V)	VOSS 230, VOSS 232 or M22x1,5	K038438N50		2
SOE	1138659F	BR9163	Kostal M24x1 (12V)	1/2"-14 NPTF	K0935181N00		1
SOE	1140872F	BR9166	Kostal M24x1 (12V)	M22x1,5	K0384681N50		1
SOE	K017813		DIN Bayonet (12V)	VOSS 230, VOSS 232 or M22x1,5	K038488N50		2

6) Supplied with adapter cable

Wheel Speed Sensors (WSS)



WHEEL SPEED SENSORS (WSS)



OE Manufacturer	Basic Part Number	Sensor	Electrical Connector	Length (mm)	IAM Part No.	Notes	Fig.
Iveco - Irisbus	0486000273	90°	plug type round	1390	0486000273K50		1
Iveco - Irisbus	0265004025	90°	plug type round	1300	0265004025K50		
MAN	0486000284	180°	MKR Plus	1000	0486000284K50		6
MAN	0486001041	180°	Schlemmer	2000	0486001041K50		5
MAN	0486001042	180°	Schlemmer	2000	0486001042K50		5
MAN	0486000250	90°	G & H	1500	0486000250K50		4
MAN	0486000251	90°	G & H	1500	0486000251K50		4
MAN	0486000252	90°	G & H	1850	0486000252K50		4
MAN	0486000253	90°	G & H	1850	0486000253K50		4

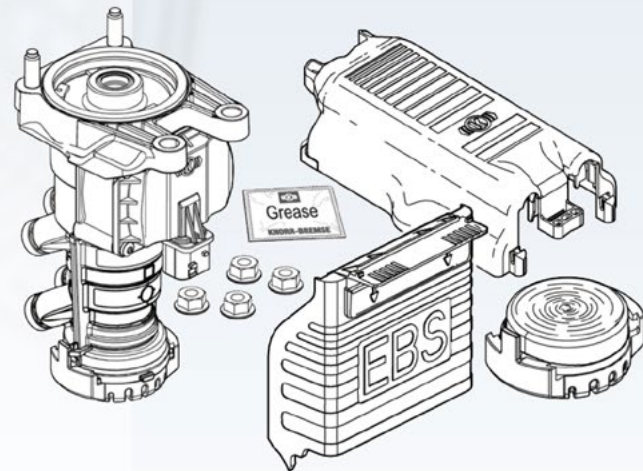
WHEEL SPEED SENSORS (WSS)

OE Manufacturer	Basic Part Number	Sensor	Electrical Connector	Length (mm)	IAM Part No.	Notes	Fig.
MAN	0486000256	90°	G & H	2150	0486000256K50		4
MAN	0486000257	90°	G & H	2150	0486000257K50		4
MAN	0486000260	90°	G & H	1800	0486000260K50		4
MAN	0486000261	90°	G & H	1800	0486000261K50		4
MAN	0486000262	90°	G & H	3900	0486000262K50		4
MAN	0486000263	90°	G & H	3900	0486000263K50		4
MAN	0486000238	90°	Schlemmer	2000	0486000238K50		2
MAN	0486000239	90°	Schlemmer	1300	0486000239K50		2
MAN	0486000240	90°	Schlemmer	2000	0486000240K50		2
MAN	0486000241	90°	Schlemmer	2000	0486000241K50		2
MAN	0486000242	90°	Schlemmer	2000	0486000242K50		2
Mercedes	0486001080	180°	socket type round	3000	0486001080K50		7
Mercedes	0265004011	90°	socket type round	1300	0265004011K50		
Mercedes	0486000275	90°	socket type round	2000	0486000275K50		
Renault	0486000291	90°	Deutsch	2400	0486000291K50		
Renault	0486000290	90°	Deutsch	2400	0486000290K50		
Renault	0486000292	90°	Deutsch	3200	0486000292K50		
Renault	0486000293	90°	Deutsch	2800	0486000293K50		
Renault	0486000286	90°	Plaselec	1400	0486000286K50		
Renault	0486000287	90°	Plaselec	1400	0486000287K50		
Renault	0486000301	90°	Plaselec	2100	0486000301K50		

WHEEL SPEED SENSORS (WSS)

OE Manufacturer	Basic Part Number	Sensor	Electrical Connector	Length (mm)	IAM Part No.	Notes	Fig.
Renault	0486000302	90°	Plaselec	2100	0486000302K50		
Renault	0486000288	90°	Socket type round	1400	0486000288K50		
Renault	0486000289	90°	Socket type round	1390	0486000289K50		
SOE	0265004042	180°	180°, plug type round	875	0265004042K50		
SOE	0486001064	180°	180°, socket type round	1650	0486001064K50		8
SOE	0486000133	90°	90°, open	2020	0486000133000		9
SOE	0486000134	90°	90°, socket type round	400	0486000134000		10
SOE	0486000135	90°	90°, socket type round	2000	0486000135000		11
SOE	0486000136	90°	90°, socket type round	1000	0486000136000		12
SOE	0486000137	90°	90°, open	2570	0486000137000		3
SOE	0486001090	180°	180°, socket type round	500	0486001090K50		8

Spare Parts



SPARE PARTS

Part Number	Product	Spare Part Number	Note	Description
0486203001	1-Channel EPM	1485515020000		Top cover
0486203002	1-Channel EPM	1485515020000		Top cover
0486203002	1-Channel EPM	1487010369000		Silencer
0486203004	1-Channel EPM	1485515020000		Top cover
0486203004	1-Channel EPM	1487010369000		Silencer
0486203005	1-Channel EPM	1485515020000		Top cover
0486203006	1-Channel EPM	1485515022000		Top cover
0486203006	1-Channel EPM	1487010360000		Silencer
0486203009	1-Channel EPM	1485515020000		Top cover
0486203012	1-Channel EPM	1485515021000		Top cover
0486203012	1-Channel EPM	1487010360000		Silencer
0486203014	1-Channel EPM	1485515022000		Top cover
0486203014	1-Channel EPM	1487010360000		Silencer
0486203016	1-Channel EPM	1485515021000		Top cover
0486203016	1-Channel EPM	1487010360000		Silencer
0486203017	1-Channel EPM	1485515020000		Top cover
0486203017	1-Channel EPM	1487010369000		Silencer
0486203022	1-Channel EPM	1485515022000		Top cover
0486203022	1-Channel EPM	1487010360000		Silencer
0486203023	1-Channel EPM	1485515021000		Top cover
0486203023	1-Channel EPM	1487010360000		Silencer

SPARE PARTS

Part Number	Product	Spare Part Number	Note	Description
0486203024	1-Channel EPM	1485515022000		Top cover
0486203024	1-Channel EPM	1487010360000		Silencer
0486203025	1-Channel EPM	1485515020000		Top cover
0486203026	1-Channel EPM	1485515020000		Top cover
0486203028	1-Channel EPM	1487010369000		Silencer
0486203030	1-Channel EPM	1487010369000		Silencer
0486203032	1-Channel EPM	1485515021000		Top cover
0486203032	1-Channel EPM	1487010360000		Silencer
0486203033	1-Channel EPM	1485515022000		Top cover
0486203033	1-Channel EPM	1487010360000		Silencer
0486203034	1-Channel EPM	1487010369000		Silencer
0486204008	2-Channel EPM	1487010361000		Top cover
0486204009	2-Channel EPM	1487010361000		Top cover
0486204012	2-Channel EPM	1487010361000		Top cover
0486204017	2-Channel EPM	1487010361000		Top cover
0486204024	2-Channel EPM	1487010361000		Top cover
0486205001	TCM	1487010354000		Silencer
0486205002	TCM	1487010354000		Silencer
0486205004	TCM	1487010354000		Silencer
0486205006	TCM	1487010354000		Silencer
0486205008	TCM	1487010354000		Silencer

Part Number	Product	Spare Part Number	Note	Description
0486205010	TCM	1487010354000		Silencer
0486205011	TCM	1487010354000		Silencer
0486205014	TCM	1487010354000		Silencer
0486205015	TCM	1487010354000		Silencer
0486205016	TCM	1487010354000		Silencer
0486205017	TCM	1487010354000		Silencer
0486205019	TCM	1487010354000		Silencer
0486205020	TCM	1487010354000		Silencer
0486205022	TCM	1487010354000		Silencer
K000085	1-Channel EPM	K000846K50	1)	Side cover
K000085	1-Channel EPM	K000847K50	2)	Silencer
K000086	2-Channel EPM	K000846K50	1)	Side cover
K000086	2-Channel EPM	K000847K50	2)	Silencer
K000088	2-Channel EPM	K000846K50	1)	Side cover
K000088	2-Channel EPM	K000847K50	2)	Silencer
K000913	1-Channel EPM	K000846K50	1)	Side cover
K000913	1-Channel EPM	K000847K50	2)	Silencer
K000914	1-Channel EPM	K000846K50	1)	Side cover
K000914	1-Channel EPM	K000847K50	2)	Silencer
K000921	2-Channel EPM	K000846K50	1)	Side cover

1) Contains only ONE side cover, two are required for 2-Channel EPMS

2) Contains only ONE silencer, two are required for 2-Channel EPMS

SPARE PARTS

Part Number	Product	Spare Part Number	Note	Description
K000921	2-Channel EPM	K000847K50	2)	Silencer
K000922	2-Channel EPM	K000846K50	1)	Side cover
K000922	2-Channel EPM	K000847K50	2)	Silencer
K000923	2-Channel EPM	K000846K50	1)	Side cover
K001411	2-Channel EPM	K000846K50	1)	Side cover
K001411	2-Channel EPM	K000847K50	2)	Silencer
K005496	1-Channel EPM	K000846K50	1)	Side cover
K005496	1-Channel EPM	K000847K50	2)	Silencer
K005498	2-Channel EPM	K000846K50	1)	Side cover
K005498	2-Channel EPM	K000847K50	2)	Silencer
K014973	1-Channel EPM	K000846K50	1)	Side cover
K014973	1-Channel EPM	K000847K50	2)	Silencer
K015441	2-Channel EPM	K000846K50	1)	Side cover
K020020	2-Channel EPM	K000846K50	1)	Side cover
K020020	2-Channel EPM	K000847K50	2)	Silencer
K020021	2-Channel EPM	K000846K50	1)	Side cover
K020021	2-Channel EPM	K000847K50	2)	Silencer
K020022	2-Channel EPM	K000846K50	1)	Side cover
K020022	2-Channel EPM	K000847K50	2)	Silencer
K020023	2-Channel EPM	K000846K50	1)	Side cover

1) Contains only ONE side cover, two are required for 2-Channel EPMs

2) Contains only ONE silencer, two are required for 2-Channel EPMs

SPARE PARTS

Part Number	Product	Spare Part Number	Note	Description
K020023	2-Channel EPM	K000847K50	2)	Silencer
K020024	2-Channel EPM	K000846K50	1)	Side cover
K020024	2-Channel EPM	K000847K50	2)	Silencer
K021202	1-Channel EPM	K000846K50	1)	Side cover
K021202	1-Channel EPM	K000847K50	2)	Silencer
K021203	1-Channel EPM	K000846K50	1)	Side cover
K021203	1-Channel EPM	K000847K50	2)	Silencer
K021204	2-Channel EPM	K000846K50	1)	Side cover
K021204	2-Channel EPM	K000847K50	2)	Silencer
K023215	2-Channel EPM	K000846K50	1)	Side cover
K023216	2-Channel EPM	K000846K50	1)	Side cover
K023217	2-Channel EPM	K000846K50	1)	Side cover
K023217	2-Channel EPM	K000847K50	2)	Silencer
K023218	1-Channel EPM	K000846K50	1)	Side cover
K023219	1-Channel EPM	K000846K50	1)	Side cover
K023219	1-Channel EPM	K000847K50	2)	Silencer
K023220	1-Channel EPM	K000846K50	1)	Side cover
K023220	1-Channel EPM	K000847K50	2)	Silencer
K027386	FBM	K103367K50		FBM complete
K046640	FBM	K103367K50		FBM complete

1) Contains only ONE side cover, two are required for 2-Channel EPMs

2) Contains only ONE silencer, two are required for 2-Channel EPMs

Part Number	Product	Spare Part Number	Note	Description
K093190	1-Channel EPM	K045926K50	1)	Side Cover
K093190	1-Channel EPM	K041964K50	2)	Silencer
K093192	2-Channel EPM	K045926K50	1)	Side Cover
K093192	2-Channel EPM	K041964K50	2)	Silencer
K028781	TCM	K041964K50		Silencer
K055628	FBM	K041964K50		Silencer
K050214	1-Channel EPM	K045926K50	1)	Side Cover
K050214	1-Channel EPM	K000847K50	2)	Silencer
K125218	2-Channel EPM	K045926K50	1)	Side Cover
K125218	2-Channel EPM	K000847K50	2)	Silencer
K103131	TCM	K000847K50		Silencer

1) Contains only ONE side cover, two are required for 2-Channel EPMS

2) Contains only ONE silencer, two are required for 2-Channel EPMS

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