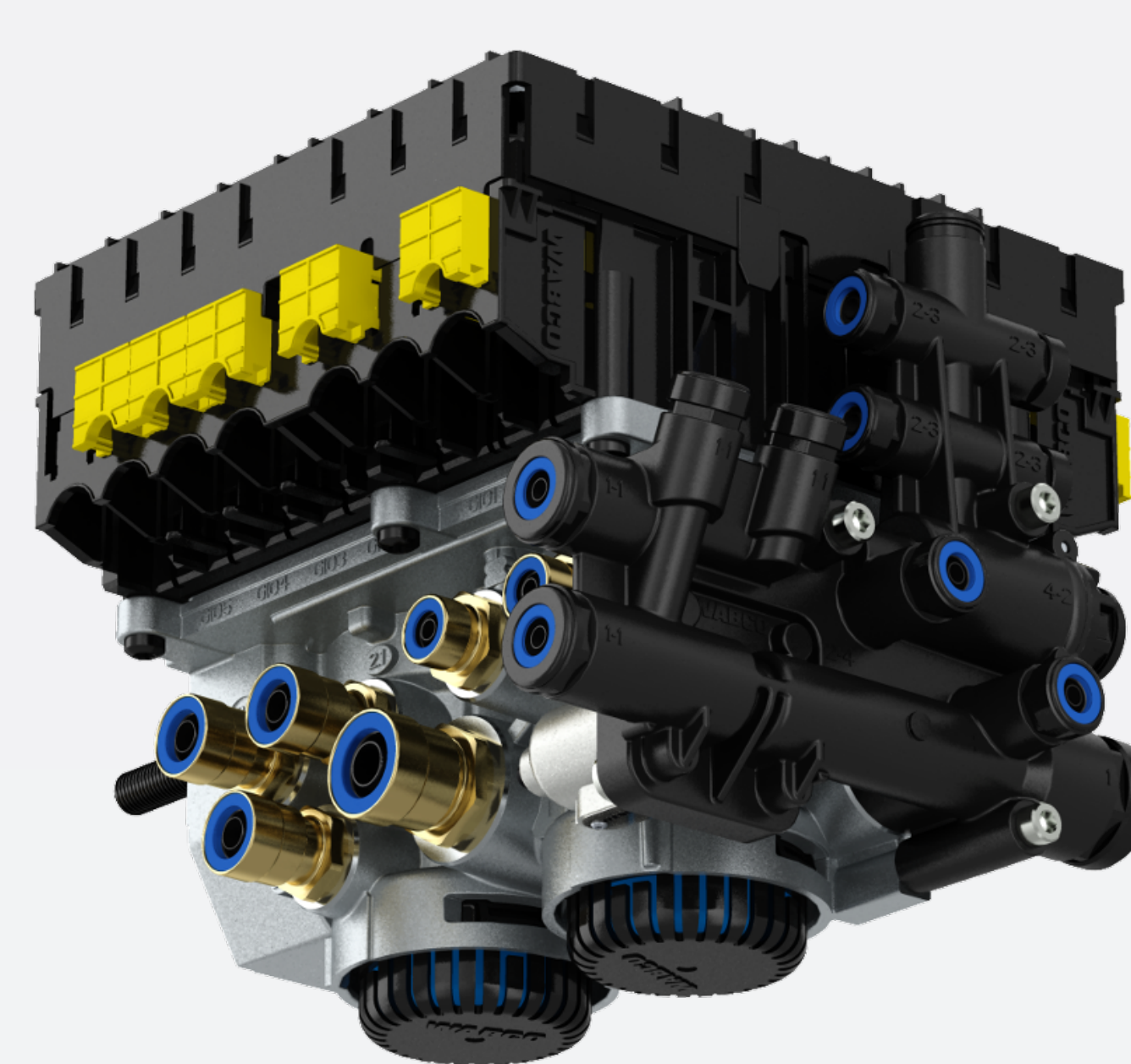


Trailer EBS E System Overview



Trailer EBS E Modulator	Product Number	System	Support Mechanical Suspension	Air Suspension Control	Number of GIOs	Pneumatic Extension Module	Quick Connector	Supported Piping	
								Supply	Air Suspension
	480 102 030 0	Standard, 2S / 2M	✗	✗	4	✗	✗	M 22 x 1.5	M 16 x 1.5
	480 102 031 0	Standard, 2S / 2M	✗	✗	4	✓ Composite	✓	Ø 16 x 2	Ø 8 x 1
	480 102 032 0	Standard, 2S / 2M	✗	✗	4	✗	✓	Ø 15 x 1.5	M 16 x 1.5
	480 102 033 0	Standard, 2S / 2M	✗	✗	4	✓ Aluminum	✓	Ø 15 x 1.5	Ø 8 x 1
	480 102 034 0	Standard, 2S / 2M	✗	✗	4	✓ Aluminum	✗	M 22 x 1.5	M 16 x 1.5
	480 102 035 0	Standard, 2S / 2M	✗	✗	4	✓ Aluminum	✓	Ø 15 x 1.5	Ø 8 x 1
	480 102 036 0	Standard, 2S / 2M	✗	✗	4	✓ Composite	✓	Ø 15 x 1.5	Ø 8 x 1
	480 102 060 0	Premium, max. 4S / 3M	✓	✓	7	✗	✗	M 22 x 1.5	M 16 x 1.5
	480 102 061 0	Premium, max. 4S / 3M	✓	✓	7	✓ Composite	✓	Ø 16 x 2	Ø 8 x 1
	480 102 062 0	Premium, max. 4S / 3M	✓	✓	7	✗	✓	Ø 15 x 1.5	M 16 x 1.5
	480 102 063 0	Premium, max. 4S / 3M	✓	✓	7	✓ Aluminum	✓	Ø 15 x 1.5	Ø 8 x 1
	480 102 064 0	Premium, max. 4S / 3M	✓	✓	7	✓ Aluminum	✗	M 22 x 1.5	M 16 x 1.5
	480 102 065 0	Premium, max. 4S / 3M	✓	✓	7	✓ Aluminum	✓	Ø 15 x 1.5	Ø 8 x 1
	480 102 066 0	Premium, max. 4S / 3M	✓	✓	7	✓ Composite	✓	Ø 15 x 1.5	Ø 8 x 1
	480 102 080 0	Multivoltage, max. 4S / 3M	✓	✓	7	✗	✗	M 22 x 1.5	M 16 x 1.5
	480 102 084 0	Multivoltage, max. 4S / 3M	✓	✓	7	✓ Aluminum	✗	M 22 x 1.5	M 16 x 1.5

Standard TEBS E Modulator with Conventional Air Suspension

Information Sticker ISO 7638
813 000 025 3
Silver Adhesive Label
(Print from Diagnostic Software)
899 200 922 4

Supply Coupling Head with Integrated Filter
952 201 012 0
952 201 015 0 - With Quick Connector

Control Coupling Head with Integrated Filter
952 201 011 0
952 201 013 0 - With Test Port
952 201 014 0 - With Quick Connector & Test Port

Power Cable ISO 7638
449 173 090 0 - 9 m
449 173 100 0 - 10 m
449 173 120 0 - 12 m
449 173 130 0 - 13 m
449 173 140 0 - 14 m
449 173 150 0 - 15 m
449 173 160 0 - 16 m

Park Release Emergency Valve - PREV
971 002 900 0 - No Fittings - with Plate
971 002 902 0
971 002 910 0 - All Fittings ø8x1
971 002 911 0 - With fittings (3 x ø8x1 / 2 x ø10x1)
971 002 912 0 - All Fittings ø8x1 + Plate & Test Port
971 002 913 0 - With fittings (2 x ø8x1 / 3 x ø10x1)

Operation Plate - 971 002 103 4

Lift Axle Control Valve - LACV
463 084 031 0 - 1-circuit
463 084 041 0 - 1-circuit with quick connector

LACV Cable
449 443 008 0 - 0.8 m
449 443 010 0 - 1 m
449 443 020 0 - 2 m
449 443 040 0 - 4 m
449 443 060 0 - 6 m
449 443 100 0 - 10 m

Legend

- Supply
- Control/Service Brake
- Air Suspension Lines
- Parking Brake Lines
- Electrical Signals
- CAN Connection (ISO 7638)

Rotary Slide Valve
463 032 020 0 - Dual Circuit
463 032 023 0 - Single Circuit
463 032 220 0 - Dual Circuit with Quick Connector
or
Trailer Air Suspension Control - TASC
463 090 332 0 - Single Circuit; Ports (1, 2): M12x1.5; 24: M16x1.5
463 090 315 0 - Dual Circuit; Ports (1, 2): M12x1.5; 24: M16x1.5
463 090 313 0 - Dual Circuit; Ports (1, 2): M12x1.5; 24: M16x1.5
463 090 310 0 - Dual Circuit; Ports (1, 2): ø 8x1; 24: ø 12x1.5

TASC Cable
449 443 008 0 - 0.8 m
449 443 010 0 - 1 m
449 443 020 0 - 2 m
449 443 040 0 - 4 m
449 443 060 0 - 6 m
449 443 100 0 - 10 m

Wheel Speed Sensor
441 032 808 0 - Type S+ with 0.4 m Cable
441 032 809 0 - Type S+ with 1 m Cable
441 032 921 2 - Repair Kit (0.4 m sensor)
441 032 922 2 - Repair Kit (1 m sensor)
899 760 510 4 - Sensor Bush

Cable Extension for Wheel Speed Sensor
449 723 030 0 - 3 m
449 723 040 0 - 4 m

Levelling Valve
464 006 540 0 - Single Circuit
464 006 500 0 - Dual Circuit
464 006 520 0 - Dual Circuit with Height Limitation
464 006 580 0 - Dual Circuit and Inverted Lever

Lever Linkages - Length 289 mm
441 050 071 2
441 906 710 2

Blind Plugs for PEM and Fittings
893 022 001 4 - for ø 8x1
893 022 016 4 - for ø 12x1.5
893 022 017 4 - for ø 15x1.5
893 022 018 4 - for ø 16x2

Premium TEBS E Modulator with Electronic Air Suspension OptiLevel™

Legend

- Supply
- Control/Service Brake
- Air Suspension Lines
- Parking Brake Lines
- Electrical Signals
- CAN Connection (ISO 7638)

SUBSYSTEMS

SmartBoard
446 192 210 0 - Battery Included
446 192 211 0 - Without Battery

SmartBoard Cable
449 961 040 0 - 4 m
449 961 060 0 - 6 m
449 961 120 0 - 12 m

OptiLink™
446 290 700 0

OptiLink Cable
449 963 020 0 - 2 m
449 963 030 0 - 3 m
449 963 050 0 - 5 m

OptiTire™
446 220 110 0

OptiTire Cable
449 963 020 0 - 2 m
449 963 030 0 - 3 m
449 963 050 0 - 5 m

Trailer Remote Control
446 122 080 0

Electronic Extension Module
446 122 070 0

TailGUARD™
446 122 071 0

ECAS / OptiLevel™ Sensor
441 050 100 0

OptiLevel™ Sensor Cable
449 811 010 0 - 1 m
449 811 030 0 - 3 m
449 811 050 0 - 5 m
449 811 080 0 - 8 m
449 811 120 0 - 12 m

Lever
441 050 718 2

Linkage
433 401 003 0

Lift Axle Control Valve - Impulse Controlled
463 084 100 0 - Dual circuit Lift Axle Control

LACV-IC Cable
449 445 010 0 - 1 m
449 445 030 0 - 3 m
449 445 050 0 - 5 m
449 445 060 0 - 6 m

OptiLevel™ Valves
ECAS Valve
472 880 030 0 - Axle Control
472 905 114 0 - Axle & Lift Axle Control
or
eTASC Valve
463 090 500 0 - With Quick Connector
463 090 503 0
463 090 510 0 - Dead-man Control

OptiLevel™ Cable
449 445 010 0 - 1 m
449 445 030 0 - 3 m
449 445 050 0 - 5 m
449 445 060 0 - 6 m

Diagnosics Components

1 Diagnostic Interface 2
446 301 030 0

24 V CAN Diagnosis

2 CAN Diagnostic Cable
446 300 361 0 - 5 m
446 300 362 0 - 20 m
446 300 360 0

5 V CAN Diagnosis

4 Diagnostic Cable CAN 5 V
446 300 348 0
5 TEBS E Diagnostic Cable
449 611 030 0 - 3 m
449 611 040 0 - 4 m
449 611 060 0 - 6 m
449 611 080 0 - 8 m

ZF Telematics

1 TX-TRAILERPULSE with Battery
346 292 000 0

2 TX-TRAILERPULSE
346 291 000 0

TX-TRAILERPULSE Cable
449 963 020 0 - 2 m
449 963 050 0 - 5 m

3 TX-TRAILERGUARD
346 290 000 0

TX-TRAILERGUARD Cable
449 029 050 0 - 5 m

Control Box
446 156 021 0 - Axle Control
446 156 022 0 - Axle & Lift Axle Control
446 156 023 0 - Drawbar Axle Control

Control Box cables
449 627 060 0 - 6 m