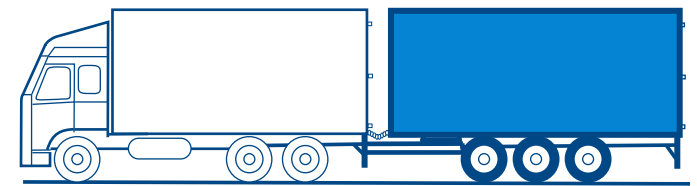


# TEBS G2.1 System

## Component Overview - Semi-trailer and Centre-axle Trailer (2S/2M) with Raise/Lower Valve and pneumatically controlled Lift Axle



### Coupling Head with integral Filter

K162828N00 - KU1400	Supply (red)
K162829N00 - KU1410	Control (yellow)
K162830N00 - KU1412	Control (yellow), with Test Point

**Quattromatic Coupling Heads:**

K002640 - KU1414	for Semi-trailer - Fig. A
K002641 - KU1415	for Centre-axle Trailer - Fig. B

For further Coupling Head variants see Product Data Sheet Y011338

### Trailer EBS Brake Module

K01931<sup>1)</sup> - ES2060 TEBS G2.1 module, 2S-6S/3M, connection P28 freely programmable

K01935<sup>1)</sup> - ES2060 TEBS G2.1 Module, 2S/2M, P28 test connection

for futher TEBS G2 variants see Product Data Sheet PD-214-200 (Y050635)

**P28**

IAM Variant

K000847K50	Silencer
K023401K50	Side Cover
K108643K50	Port Filters (Port 4)

**Note:** All TEBS G2 brake modules must be programmed and an "End of Line Test" (EOL) carried out after installation!

### 7 Pin ISO 7638 Cable

K004098N00 - EK3150 ISO 7638 Connecting Cable Tractor to Trailer (Susie), with buckling protection

### ISO 7638 - Pin Allocation

1 - red	Modulators (24V)
2 - black	ECU (24V)
3 - yellow	ECU (Ground)
4 - brown	Modulators (Ground)
5 - white	Warning lamp
6 - white/green	Data line CAN-H
7 - white/brown	Data line CAN-L

### ISO 12098 - Pin Allocation

1 - yellow	L/H Indicators
2 - green	R/H Indicators
3 - blue	Rear fog lights
4 - white	Ground for 1 - 3 & 5 - 12
5 - black	L/H Side Lights
6 - brown	R/H Side Lights
7 - red	Stop lamps
8 - pink	Reversing lamps
9 - orange	24 V supply
10 - grey	Brake Wear indicator
11 - black/white	Parking brake applied
12 - blue/white	Lift axle status
13 - red/white	Ground for CAN (14 & 15)
14 - green/white	CAN-H (not ABS/EBDS)
15 - brown/white	CAN-L (not ABS/EBDS)

### Blanking Plugs

K026197V01N00 Blanking Plug for In-Out Connector - Fig. A

K103003K50 Blanking Plug for WSS connector - Fig. B

**Push to Connect (PTC) fittings - Fig. C**

96210008	8 mm pipe
96210012	12 mm pipe
96210015	15 mm pipe

Note: Unused connectors must be plugged.

### Park/Shunt Valve

**with integrated Charging Valve for Semi-trailers and Centre-axle Trailers**

K141700N00 - AE4370 Park/Shunt Valve with integrated Charging Valve, without Plate

K056570N00 Operation Instruction Plate

For further details see Product Data Sheet Y095829

### Trailer Information Module (TIM G2))

K009166<sup>1)</sup> - EZ1035 Trailer Information Module (TIM G2) with integral battery

K070605<sup>1)</sup> Trailer Information Module (TIM G2) without integral battery, e.g. for use on ADR trailers

**Modular In-Out cable from Brake Module to TIM G2**

K022272N00	Length 4 m
K022279N00	Length 6 m

### TEBS - PC Diagnostics

II39808F - EZ1034 24V-CAN Adapter Cable - Fig. A

II39809F - EZ1031 Universal Diagnostic Interface (UDIF) incl. Cable Z005474 - Fig. B

II39812F - EZ1032 Connecting Cable (UDIF - CAN) - Fig. C

Z007887 USB Adapter Cable (UDIF - PC)

### Trailer Data Plate

II39797F Silver Foil Data Plate (Print from ECUtalk®) - Fig. A

II39796F ISO 7638 Headboard Information Sticker - Fig. B

K112780N00 TEBS Sticker - Fig. C

### Load Sensor mech. suspension

K026919B90 External load sensor for mechanical suspension, complete with linkage

II19422 - ZB3131 Level sensor linkage (single)

K193628 Linkage, axle side (single)

(Used in trailers with mechanical suspension)

### Levelling Valve

K194770N00 - SV1395 Levelling Valve - Fig. A

K194769N00 - SV1465 Levelling Valve with Height Limitation and Datum Adjustment - Fig. B

K194773N00 - SV1466 Levelling Valve with Height Limitation - Fig. B

K194771N00 - SV1478 Levelling Valve - Fig. A

K193628 Lower Linkage

for further Levelling Valve variants see Product Data Sheet Y011375

### Raise/Lower Valve

II36151 - SV3230 Raise/Lower Valve with pneumatic 'Speed Pulse' Function (reset to ride height - Rtr) - Fig. A

K054888N00 - SV3241 Raise/Lower Valve with electrical 'Speed Pulse' Function (Rtr), Test Point, Adaptor Plate - Fig. B

K054885N00 - SV3273 Raise/Lower Valve with electrical 'Speed Pulse' Function (Rtr), Test Point, Legend Plate - Fig. C

K022847N00 - SV3801 Raise/Lower Valve with electrical 'Speed Pulse' Function (Rtr), direct acting solenoid - Fig. D

II36226004 Handle Kit

Z006844 Legend Plate

K016334K50 Solenoid Kit (for SV32..)

K022901K50 Solenoid Kit (for SV3801)

For other Raise/Lower Valves see Product Date Sheets Y183920, Y095621, Y011377

### Lift Axle Valve

K125537N00 - AE1141 5/2 Way Lift Axle Valve, 24 V Solenoid controlled - Fig. A

K015384N00 - AE1141 5/2 Way Lift Axle Valve, 24 V Solenoid controlled - Fig. B\*

K017224N00 - AE1141 5/2 Way Lift Axle Valve, pneumatically controlled - Fig. C\*

K016334K50 Solenoid Kit for K125537N00 and K015384N00

\* PTC-connections, non-removable exhaust valve

For other Lift Axle Valves see Product Data Sheets PD-503-400 (Y050267)

### Wheel Speed Sensor and Connecting Cables

**Sensors**

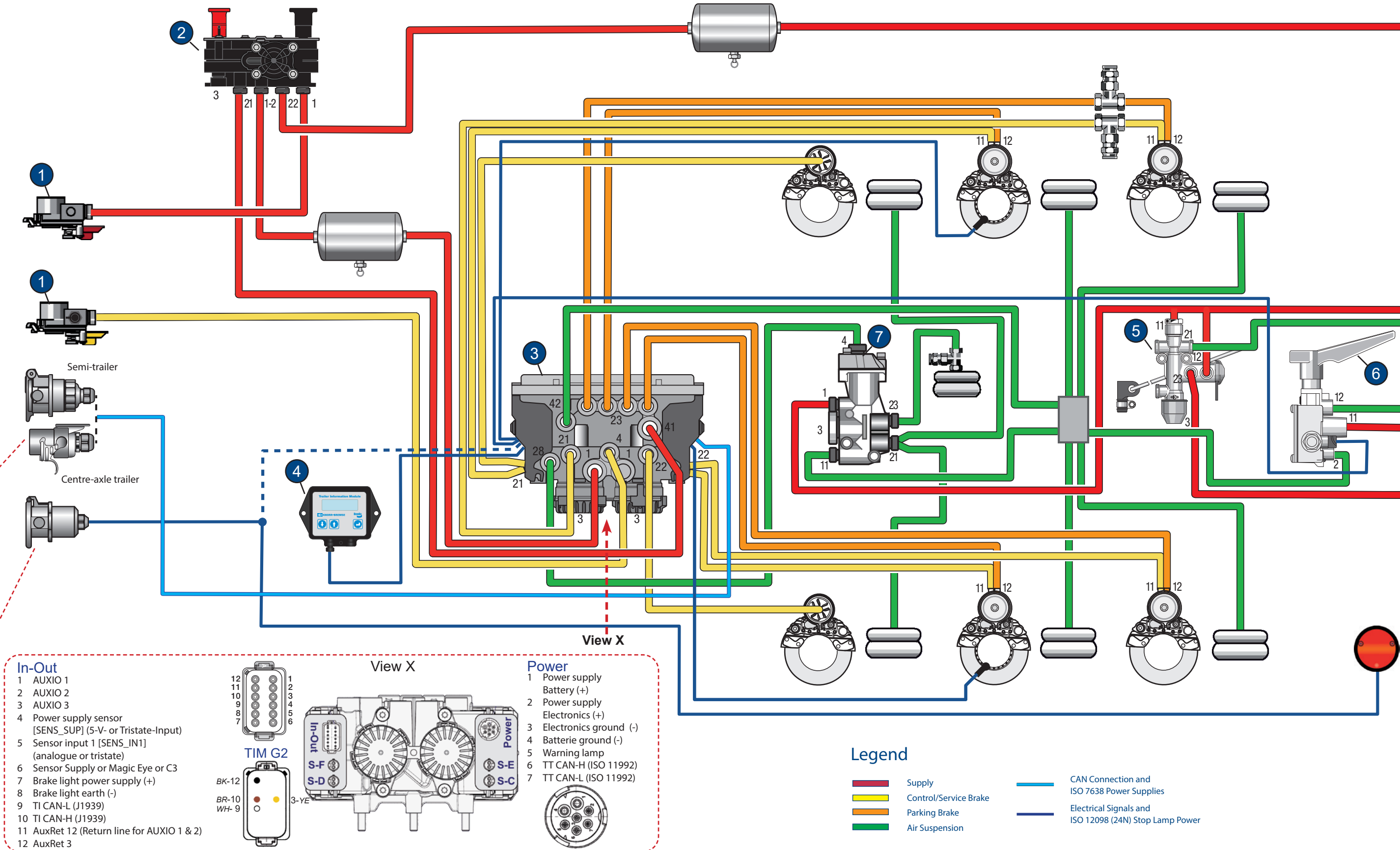
K144126K50*	Radial (90°), Length 0.4 m
K144128K50*	Radial (90°), Length 1.0 m
K145033K50	Axial, Length 1.0 m

\* complete with Bush and Grease

**Connecting Cables**

K0278323000	Length 3 m
K0278324000	Length 4 m
K0278326000	Length 6 m
K02783210000	Length 10 m

For other Sensors and Cables see Product Data Sheet PD-261-000 (Y011363)



### 7 Pin ISO 7638 Chassis Cable

K008430N00 ISO 7638 Socket + 10 m Cable (Semi-trailer) - Fig. A

K008431N00 ISO 7638 Socket + 13 m Cable (Semi-trailer) - Fig. A

K008432N00 ISO 7638 Socket (90° Connector) + 16 m Cable (Semi-trailer) - Fig. B

K010710N00 ISO 7638 Socket + 10 m Cable (Centre-axle Trailer) - Fig. C

K010711N00 ISO 7638 Socket + 13 m Cable (Centre-axle Trailer) - Fig. C

I88007 ISO 7638 Dummy Socket (Mounting Bracket Part No. B86617) - Fig. D

For other Power Supply Cables see Product Data Sheet PD-272-025 (Y142784)

### In-Out Plug and Cable (Examples)

K021335N00 In-Out Cable for SP on Auxio 1 - Fig. A

K021336N00 In-Out Cable for SP/LAC on Auxio 1, Stop Lamp powering/TH, open ended - Fig. B

K021345N00 In-Out Cable for Stop Lamp powering on Auxio 1 - Fig. C

K002281N00 Connecting Cable (15 m) open ended, various possible connections - Fig. D

K002275N00 Aux Connecting Cable 2-pole (6.5 m), e.g. LAC, SP - Fig. E

K002287N00 12-Pin Deutsch Plug complete with blanking plugs - Fig. F

For other modular cables see Product Data Sheet Y142784

### Trailer Electro-Pneumatic Module (TEPM-S)

K021940<sup>1)</sup> - ES2070 TEPM-S, Trailer Electro-Pneumatic Module Standard (without additional Outputs) for trailers with 4S/3M Systems

**Cables**

K058332N00	Connecting Cable TEPM-S to TEBS G2.1 (Connector 2.3) - Fig. A
K027811N00	Wheel Speed Sensor Cable TEPM-S (2 m) - Fig. B
K044708N00	Connecting Cable TEPM-S to external Pressure Sensor (3 m) - Fig. C

For other modular cables see Product Date Sheets Y095618

### Trailer Electro-Pneumatic Module (TEPM-P)

K027900<sup>1)</sup> - ES2071 TEPM-P, Trailer Electro-Pneumatic Module Premium (with additional Inputs/Outputs) for trailers with 4S/3M Systems e.g. with self-steering axle

**Cables**

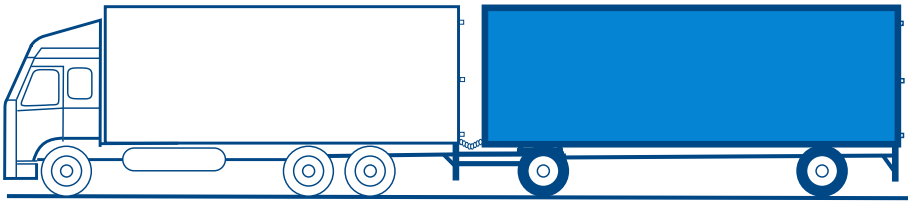
K058249N00	Connecting Cable TEPM-P to TEBS G2.1 (7 m) - Fig. A
K058256N00	Connecting Cable TEPM-P to TEBS G2.1 with separate Aux-Connector - Fig. B
II367562000 - EK3130	Wheel Speed Sensor Connecting Cable for TEPM-P (2 m) - Fig. C

For other modular cables see Product Data Sheet Y095618

<sup>1)</sup> The part number of the module will carry two suffices, firstly "V##" which represents the software revision of the product, e.g. V01, V02 etc., and secondly "N##" which defines the packaging requirements of different market sectors, e.g. N00, N99. Example: K55342V03N99 - is supplied with software to revision 03 and is supplied with packaging.



# TEBS G2.1 Premium Component Overview - Drawbar Trailer (4S/3M-System)



Coupling Head with integral Filter

1

K162828N00 - KU1400	Supply (red)
K162829N00 - KU1410	Control (yellow)
K162830N00 - KU1412	Control (yellow), with Test Point

**Quattromatic Coupling Heads:**  
K002641 - KU1415 for Centre-axle Trailers

Trailer EBS Brems Modul

3

K01931<sup>1)</sup> - ES2060 TEBS G2.1 module, 2S-6S/3M, connection P28 freely programmable  
for further TEBS G2 variants see Product Data Sheet PD-214-200 (Y050635)

**IAM Variant**  
K000847K50 Silencer  
K023401K50 Side Cover  
K108643K50 Port Filters (Port 4)

**Note:** All TEBS G2 brake modules must be programmed and an "End of Line Test" (EOL) carried out after installation!

ISO 7638 - Pin Allocation

1 - red	Modulators (24V)
2 - black	ECU (24V)
3 - yellow	ECU (Ground)
4 - brown	Modulators (Ground)
5 - white	Warning lamp
6 - white/green	Data line CAN-H
7 - white/brown	Data line CAN-L

ISO 12098 - Pin Allocation

1 - yellow	L/H Indicators
2 - green	R/H Indicators
3 - blue	Rear fog lights
4 - white	Ground for 1 - 3 & 5 - 12
5 - black	L/H Side Lights
6 - brown	R/H Side Lights
7 - red	Stop lamps
8 - pink	Reversing lamps
9 - orange	24 V supply
10 - grey	Brake Wear indicator
11 - black/white	Parking brake applied
12 - blue/white	Lift axle status
13 - red/white	Ground for CAN (14 & 15)
14 - green/white	CAN-H (not ABS/EBS)
15 - brown/white	CAN-L (not ABS/EBS)

7-Pin ISO 7638 Chassis Cable

K010710N00	ISO 7638 Plug + 10m Cable (Drawbar Trailer) - Fig. A
K010711N00	ISO 7638 Plug + 13m Cable (Drawbar Trailer) - Fig. A
K021138N00	Extension Cable, 4 m - Fig. B
K028001N00	Extension Cable, 10 m - Fig. B
K002291	ISO 7638 Plug, 7-pin, with Pins - Fig. C

Blanking Plugs

K026197V01N00	Blanking Plug for In-Out Connector - Fig. A
K103003K50	Blanking Plug for WSS connector - Fig. B

**Push to Connect (PTC) fittings - Fig. C**  
96210008 8 mm pipe  
96210012 12 mm pipe  
96210015 15 mm pipe

Note: Unused connectors must be plugged.

Park/Shunt Valve

2

**with integrated Charging Valve for Centre-axle Trailers**  
K141699N00 - AE4371 Park/Shunt Valve with integrated Charging Valve and Front Axle Valve (FAV), without Plate

K056570N00 Operation Instruction Plate

Trailer Information Module (TIM G2)

4

K009166<sup>1)</sup> - EZ1035 Trailer Information Module (TIM G2) with integral battery  
K070605<sup>1)</sup> Trailer Information Module (TIM G2) without integral battery, e.g. for use on ADR trailers

**Modular In-Out cable from Brake Module to TIM G2**  
K022272N00 Length 4 m  
K022279N00 Length 6 m

TEBS - PC Diagnostics

II39808F - EZ1034 24V-CAN Adapter Cable - Fig. A  
II39809F - EZ1031 Universal Diagnostic Interface (UDIF) incl. Cable Z005474 - Fig. B  
II39812F - EZ1032 Connecting Cable (UDIF - CAN) - Fig. C  
Z007887 USB Adapter Cable (UDIF - PC)

Trailer Roadtrain Module (TRM)

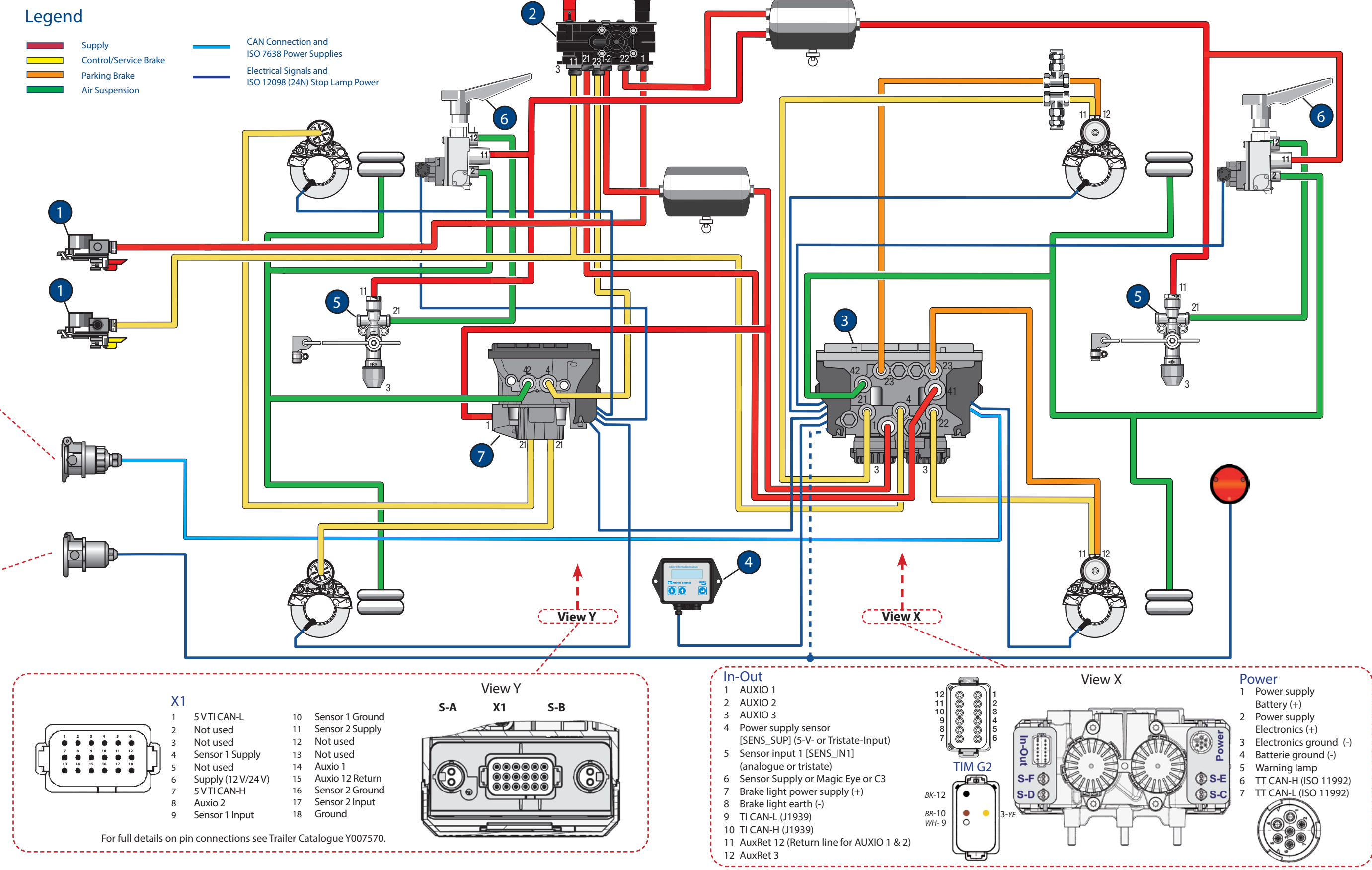
K036198<sup>1)</sup> - EZ2085 Amplifier and/or splitter of the CAN signal. For the use in extra long trains/trailers.

K027817N00 Cap to close unused bayonet connections.

K060758N00 External pressure sensor (for pressure measurement in the yellow control line, for the TRM or for external loading pressure measurement for TEBS)

Trailer Data Plate

II39797F Silver Foil Data Plate (Print from ECUtalk<sup>®</sup>) - Fig. A  
II39796F ISO 7638 Headboard Information Sticker - Fig. B  
K112780N00 TEBS Sticker - Fig. C



Levelling Valve

5

K194770N00 - SV1395 Levelling Valve - Fig. A  
K194769N00 - SV1465 Levelling Valve with Height Limitation and Datum Adjustment - Fig. B  
K194773N00 - SV1466 Levelling Valve with Height Limitation - Fig. B  
K194771N00 - SV1478 Levelling Valve - Fig. A  
K193628 Lower Linkage

For further Levelling Valve variants see Product Data sheet Y011375

Raise/Lower Valve

6

II36151 - SV3230 Raise/Lower Valve with pneumatic 'Speed Pulse' Function (reset to ride height - RtR) - Fig. A  
K054888N00 - SV3241 Raise/Lower Valve with electrical 'Speed Pulse' Function (RtR), Test Point, Adaptor Plate - Fig. B  
K054885N00 - SV3273 Raise/Lower Valve with electrical 'Speed Pulse' Function (RtR), Test Point, Legend Plate - Fig. C  
K022847N00 - SV3801 Raise/Lower Valve with electrical 'Speed Pulse' Function (RtR), direct acting solenoid - Fig. D

II36226004 Handle Kit  
Z006844 Legend Plate  
K016334K50 Solenoid Kit (for SV32..)   
K022901K50 Solenoid Kit (for SV3801)

For other Raise/Lower Valves see Product Date Sheets Y183920, Y095621, Y011377

Wheel Speed Sensor and Connecting Cables

**Sensors**  
K144126K50\* Radial (90°), Length 0.4 m  
K144128K50\* Radial (90°), Length 1.0 m  
K145033K50 Axial, Length 1.0 m  
\*complete with Bush and Grease

**Connecting Cables**  
K0278323000 Length 3 m  
K0278324000 Length 4 m  
K0278326000 Length 6 m  
K02783210000 Length 10 m

For other Sensors and Cables see Product Data Sheet PD-261-000 (Y011363)

In-Out Plug and Cable (Examples)

K021335N00 In-Out Cable for SP on Auxio 1 - Fig. A  
K021336N00 In-Out Cable for SP/LAC on Auxio 1, Stop Lamp powering/TH, open ended - Fig. B  
K021345N00 In-Out Cable for Stop Lamp powering on Auxio 1 - Fig. C  
K002280N00 Connecting Cable (7 m) open ended, various possible connections - Fig. D  
K002275N00 Aux Connecting Cable 2-pole (6.5 m), e.g. LAC, SP - Fig. E  
K002287N00 12-Pin Deutsch Plug complete with blanking plugs - Fig. F

TH = Traction Help  
LAC = Lift Axle Control  
SP = Speed Pulse (e.g. signal for reset to ride height)

For other modular cables see Product Data Sheet Y142784

Trailer Electro-Pneumatic Module (TEPM-S)

K021940<sup>1)</sup> - ES2070 TEPM-S, Trailer Electro-Pneumatic Module Standard (without additional Outputs) for trailers with 4S/3M Systems

**Cables**  
K058332N00 Connecting Cable TEPM-S to TEBS G2.1 (Connector 2.3) - Fig. A  
K027811N00 Wheel Speed Sensor Cable TEPM-S (2 m) - Fig. B  
K044708N00 Connecting Cable TEPM-S to external Pressure Sensor (3 m) - Fig. C

For other modular cables see Product Date Sheets Y095618

Trailer Electro-Pneumatic Module (TEPM-P)

K027900<sup>1)</sup> - ES2071 TEPM-P, Trailer Electro-Pneumatic Module Premium (with additional Inputs/Outputs) for trailers with 4S/3M Systems e.g. with self-steering axle

**Cables**  
K058249N00 Connecting Cable TEPM-P to TEBS G2.1 (7 m) - Fig. A  
K058256N00 Connecting Cable TEPM-P to TEBS G2.1 with separate Aux-Connection - Fig. B  
II367562000 - EK3130 Wheel Speed Sensor Connecting Cable for TEPM-P (2 m) - Fig. C

For other modular cables see Product Data Sheet Y095618

<sup>1)</sup>The part number of the module will carry two suffixes, firstly "V##" which represents the software revision of the product, e.g. V01, V02 etc., and secondly "N##" which defines the packaging requirements of different market sectors, e.g. N00, N99. Example: K55342V03N99 - is supplied with software to revision 03 and is supplied with packaging.