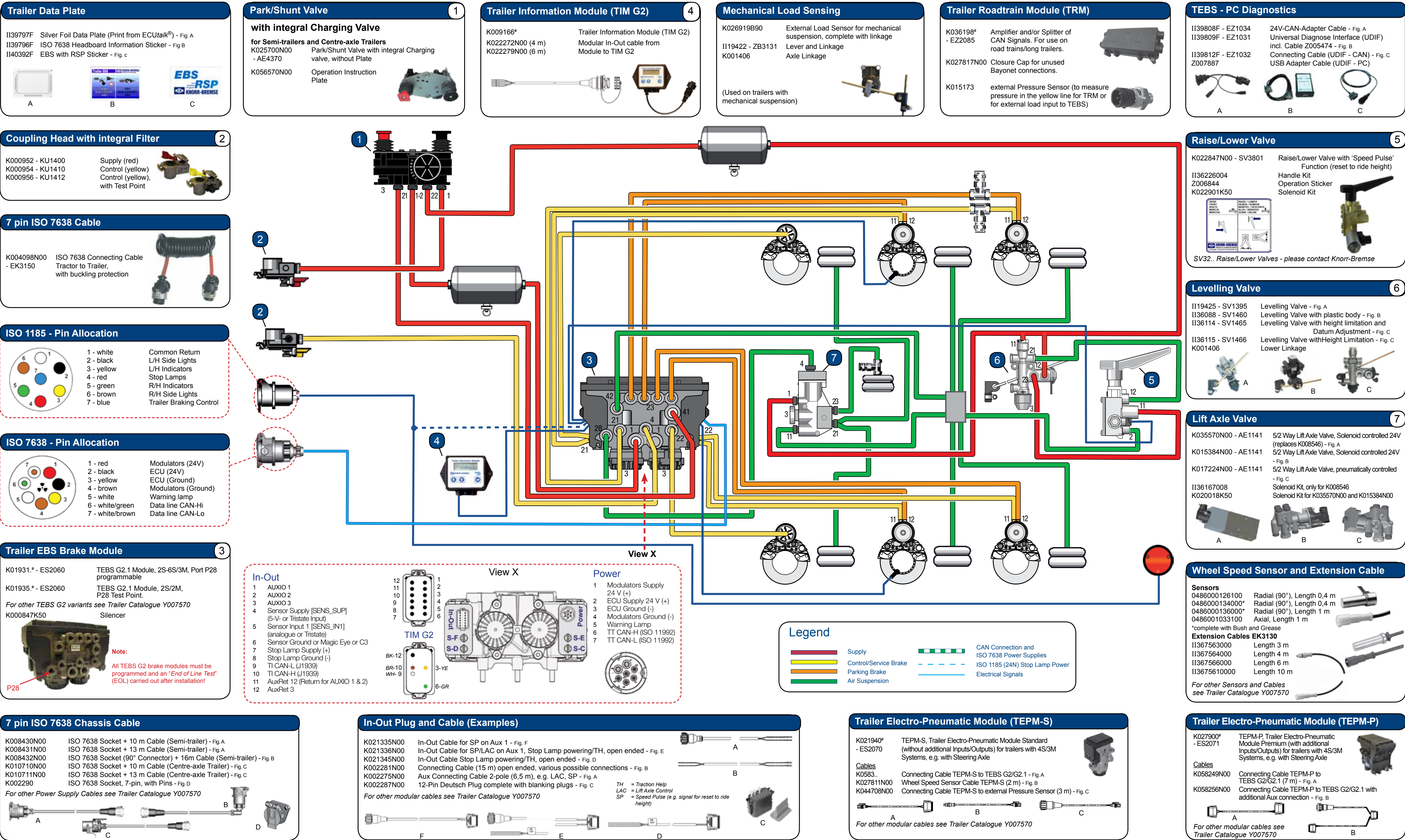


TEBS G2.1 - Component Overview, Semi-trailer /Centre-axle Trailer



Trailer Roadtrain Module (TRM)

K036198* Amplifier and/or Splitter of CAN Signals. For use on road trains/long trailers.

- EZ2085

K027817N00 Closure Cap for unused Bayonet connections.

K015173 external Pressure Sensor (to measure pressure in the yellow line for TRM or for external load input to TEBS)

TEBS - PC Diagnostics

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

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

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

Z007887 USB Adapter Cable (UDIF - PC)

A

B

C

Coupling Head with integral Filter

K000952 - KU1400 Supply (red)

K000954 - KU1410 Control (yellow)

K000956 - KU1412 Control (yellow), with Test Point

2

7 pin ISO 7638 Cable

K004098N00 ISO 7638 Connecting Cable Tractor to Trailer, with buckling protection

- EK3150

ISO 1185 - Pin Allocation

1 - white

2 - black

3 - yellow

4 - red

5 - green

6 - brown

7 - blue

Common Return

L/H Side Lights

L/H Indicators

Stop Lamps

R/H Indicators

R/H Side Lights

Trailer Braking Control

ISO 7638 - Pin Allocation

1 - red

2 - black

3 - yellow

4 - brown

5 - white

6 - white/green

7 - white/brown

Modulators (24V)

ECU (24V)

ECU (Ground)

Modulators (Ground)

Warning Lamp

Data line CAN-Hi

Data line CAN-Lo

Trailer EBS Brake Module

K01931.* - ES2060 TEBS G2.1 Module, 2S-6S/3M, Port P28 programmable

K01935.* - ES2060 TEBS G2.1 Module, 2S/2M, P28 Test Point.

For other TEBS G2 variants see Trailer Catalogue Y007570

K000847K50 Silencer

P28

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

In-Out

1 AUXIO 1

2 AUXIO 2

3 AUXIO 3

4 Sensor Supply [SENS_SUP] (5-V- or Tristate Input)

5 Sensor Input 1 [SENS_IN1] (analogue or Tristate)

6 Sensor Ground or Magic Eye or C3

7 Stop Lamp Supply (+)

8 Stop Lamp Ground (-)

9 TI CAN-L (J1939)

10 TI CAN-H (J1939)

11 AuxRet 12 (Return for AUXIO 1 & 2)

12 AuxRet 3

View X

Power

1 Modulators Supply 24 V (+)

2 ECU Supply 24 V (+)

3 ECU Ground (-)

4 Modulators Ground (-)

5 Warning Lamp

6 TT CAN-H (ISO 11992)

7 TT CAN-L (ISO 11992)

Legend

Supply

Control/Service Brake

Parking Brake

Air Suspension

CAN Connection and ISO 7638 Power Supplies (without additional Inputs/Outputs)

ISO 1185 (24N) Stop Lamp Power

Electrical Signals

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) + 16m 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

K002290 ISO 7638 Socket, 7-pin, with Pins - Fig. D

For other Power Supply Cables see Trailer Catalogue Y007570

A

B

C

D

In-Out Plug and Cable (Examples)

K021335N00 In-Out Cable for SP on Aux 1 - Fig. F

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

K021345N00 In-Out Cable Stop Lamp powering/TH, open ended - Fig. D

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

K002275N00 Aux Connecting Cable 2-pole (6,5 m), e.g. LAC, SP - Fig. A

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

For other modular cables see Trailer Catalogue Y007570

A

B

C

D

E

F

Trailer Electro-Pneumatic Module (TEPM-S)

K021940* TEPM-S, Trailer Electro-Pneumatic Module Standard (without additional Inputs/Outputs) for trailers with 4S/3M Systems, e.g. with Steering Axle

- ES2070

Cables

K0583. Connecting Cable TEPM-S to TEBS G2/G2.1 - 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 Trailer Catalogue Y007570

A

B

C

Trailer Electro-Pneumatic Module (TEPM-P)

K027900* TEPM-P, Trailer Electro-Pneumatic Module Premium (with additional Inputs/Outputs) for trailers with 4S/3M Systems, e.g. with Steering Axle

- ES2071

Cables

K058249N00 Connecting Cable TEPM-P to TEBS G2/G2.1 (7 m) - Fig. A

K058256N00 Connecting Cable TEPM-P to TEBS G2/G2.1 with additional Aux connection - Fig. B

For other modular cables see Trailer Catalogue Y007570

A

B

* 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, N50. Example: K021940V00N00 - is supplied with software to revision 00 and is supplied without packaging.

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