TEBS: Details for Installation / Storage / Maintenance

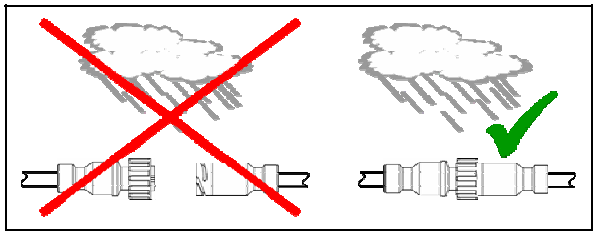
1 Electrical connections / Wiring

1.1 Bayonet Connection (7-pin)

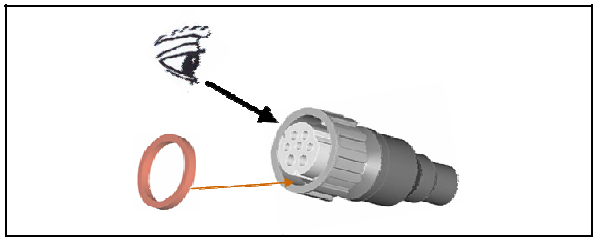
The following references apply explicitly to each application (e.g. power supply, diagnosis, splitter, etc.) of the 7-pin bayonet Connection.

To avoid stress cracks, leakage and maybe corroded contacts, the following points should be considered:

- It must be guaranteed that in the disconnected condition the Connection is not exposed to direct exposure to rain, snow, dust, etc.


Y025056-G01

- the seal in the socket plug must be correctly fitted and show no signs of damage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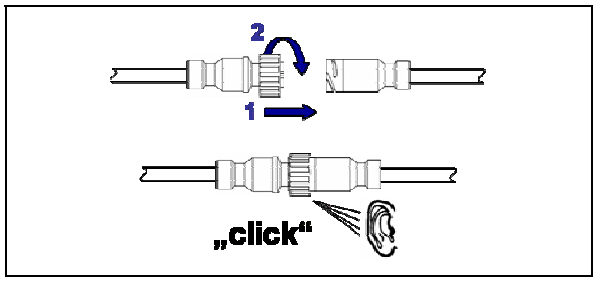
- when assembling the Connection you must feel and hear that the nut has locked



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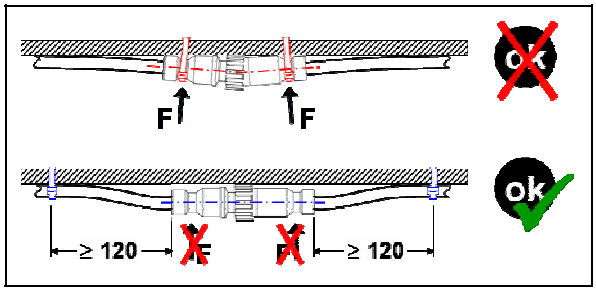
- the bayonet Connection must be securely fixed, without tension, using cable straps ensuring that there are no bending forces created
- use as large a radius as possible during the laying of cables



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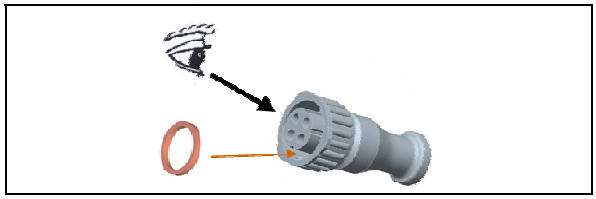
1.2 DIN-bayonet Connection (2- to 4-pin)

The DIN-bayonet Connection is mainly used as the electrical connection for electromechanical components (e.g. axle modulator, lift axle valve, etc.). The following references are explicitly valid for each application.

To avoid stress cracks, leakage and maybe corroded contacts, the following points should be considered:

- the seal in the socket plug must be correctly fitted and show no signs of damage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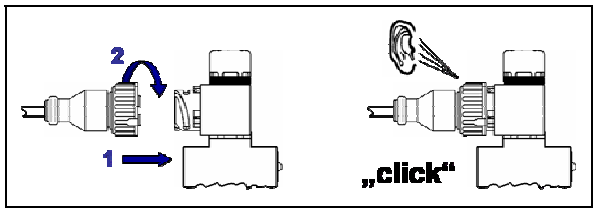
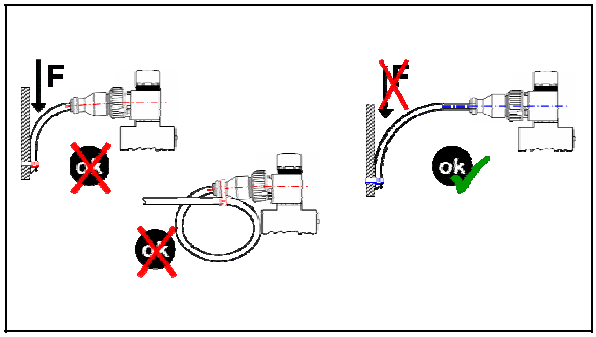
- when assembling the Connection you must feel and hear that the nut has locked



Y025056-G06

- the bayonet Connection must be securely fixed, without tension, using cable straps ensuring that there are no bending forces created
- use as large a radius as possible during the laying of cables
- it is not necessary to create a loop for the avoidance of water entrance because the connector is a completely moulded



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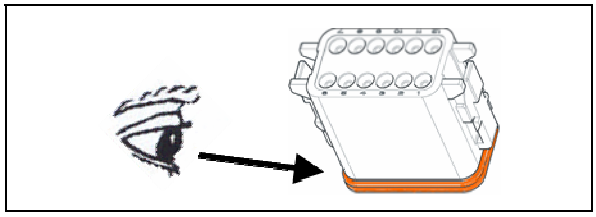
1.3 X1-/X2-connector (12-pin)

The X1 and X2-Connectors are used for the connection of the wiring harness to the EBS-module. The following references are explicitly valid for each application.

To protect the EBS-module against intrusion of water and foreign substances (e.g. sand) the following points should be considered:

- the seals of the X1 and X2-Connectors must be assembled and show no signs of damage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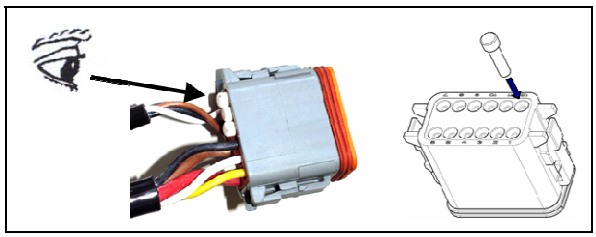
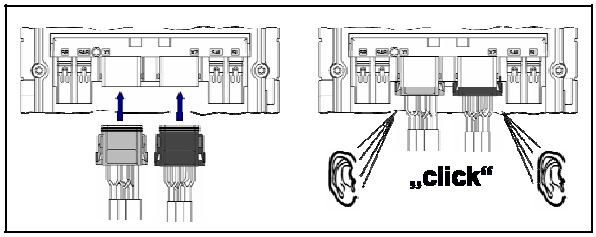
- unused contact locations must be fitted with seal pins



- when assembling the Connection you must feel and hear that the nut has locked

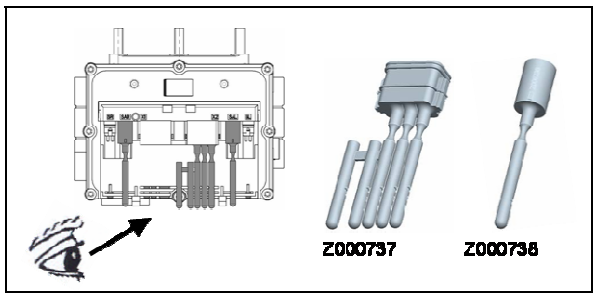


2 Components

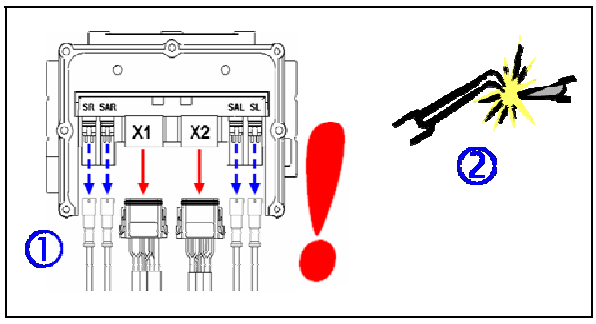
2.1 EBS-module

To avoid the destruction of the EBS-module (e.g. on electrical welding), and accordingly to protect the EBS-module against intrusion of water and foreign substances (e.g. sand) the following points should be considered:

- unused cable entrances on the module must be closed by insertion of the locking plug. Required:
  - → for slot X2: Z000737
  - → for wheel-speed-sensor-input SAR/SAL: Z000738
- the dust cover of the module (not shown) must be closed and locked



- in all cases first the X1- and then the X2-connector must be removed ① before any electrical welding is started ②
- for the complete protection of the module, the sensor plugs must also be removed. On re-insertion of the plugs (in reverse order) it is essential that they are fitted in the correct places (sensor assignment) → if necessary this must be checked by PC-diagnosis



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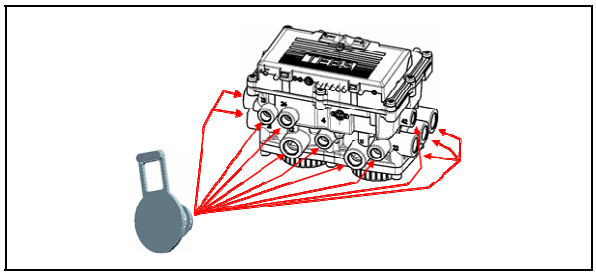
- whilst there is no pneumatic pipework connected, the EBS-module must be protected against intrusion of water and foreign substances, such as sandblasting sand, by the use of e.g. by thread protective caps
  → this protection must not be removed until connection of the pneumatic pipework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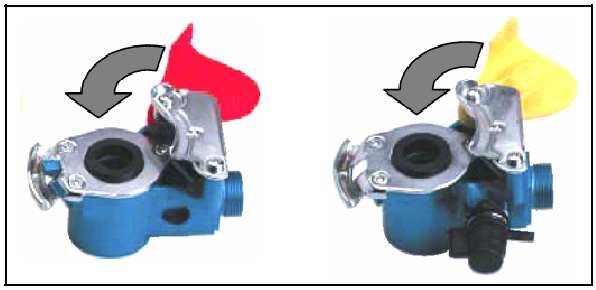
3 Pneumatic pipework / Components

3.1 Coupling heads

Coupling heads are available in two designs:
- Type number KU13.. : without integrated line filter
- Type number KU14.. : with integrated line filter → maintenance see point 3.2

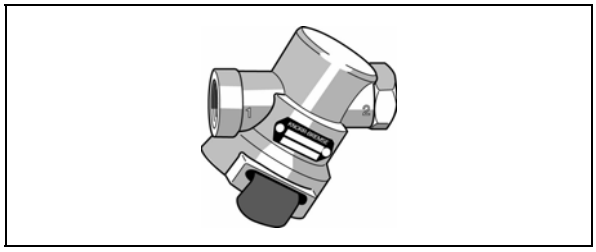
- in the uncoupled condition the plastic covers must always be closed so that the coupling heads are protected against direct water and dirt entrance
- for applications on full- and centre-axle-trailers you must pay attention additionally that the opening does not point upward and that the coupling heads are not laying on the ground


Y025056-G14

3.2 In-line filter

The function and protection of the piping system against particle contamination is only guaranteed if the line filter is regularly maintained.

- dependent on operating conditions in normal case the in-line filter (also coupling heads with integrated line filters) must be cleaned approximately every 3 - 4 months. The filter-element must be taken out, examined to ensure no damage and washed and blow-out with compressed air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