Installation and operating instructions
In the development of the JOST FlashTronic a great deal of attention was given to ensuring that the components used for it met the high standards that are now expected from JOST in terms of their mechanical properties and reliability.

The existing handle must be exchanged in order to install the JOST FlashTronic.

Regarding exchanging the handle, refer to the particular valid installation and operating instructions as well as the repair manual for the corresponding fifth wheel coupling.

All the mechanical functions and the control of the various components have been retained. Further information about this can be downloaded from our website: www.jost-world.com.
1 Safety information

The relevant safety regulations in your country (for example Health & Safety at Work) apply for working with fifth wheel couplings, tractor units, semi-trailers and the JOST FlashTronic.

The appropriate safety information in the owner’s handbook for the tractor unit and the semi-trailer are valid and must be followed.

The following safety information applies to the installation of the JOST FlashTronic. Safety information directly linked to the activity is listed again individually.

Safety information in the following sections is shown with the warning triangle symbol. You must comply with this safety information.

1.1 Safety information for operation

- The fifth wheel coupling may only be used by authorised persons.
- Comply with the relevant safety regulations when connecting a semi-trailer, for example the Health and Safety at Work Regulations.
- Check the locking mechanism before starting your journey to ensure that it is properly locked. Only drive the vehicle with the locking mechanism locked and secured.

1.2 Safety information for servicing

- Only experts are allowed to perform maintenance work on and exchange the JOST FlashTronic.
- Renew the fastening screws when exchanging the unit. Only use the supplied screws with screw locking compound.

1.3 Safety information for installation

- The JOST FlashTronic is to be mounted on the fifth wheel coupling as described in section 4.
- The JOST FlashTronic must be installed by trained personnel in suitable workshops. Follow the installation directive supplied by the vehicle manufacturer, the requirements of Appendix 7 of EC 94/20 and, if applicable, §§ 19, 20 and 21 of the Road Traffic Act and the installation instructions.
- If the JOST FlashTronic is not installed correctly, all warranty claims against the manufacturer and the supplier of the JOST FlashTronic will be rendered void.
- Follow the regulations and national legislation and regulations relating to ADR / GGVS (hazardous goods) vehicles. Reports are available under www.jost-world.com.
2 Proper usage

The JOST FlashTronic is an electronic lock display system which uses a magnetic sensor to detect when a fifth wheel coupling is closed and secured.

The lock status (open/closed) is displayed by an LED on the fifth wheel coupling:

- The fifth wheel coupling is only closed if the LED is flashing.
- The LED flashes once per second.
- After 10 minutes, the flashing frequency of the LED is automatically reduced. The JOST FlashTronic then flashes once every 5 seconds.
- If the LED does not flash, this means the fifth wheel coupling is open, or the JOST FlashTronic is inoperative.
- Deviating displays, e.g. if the LED is permanently lit, indicate a malfunction. Units with deviating displays should be renewed.

The locking status of the fifth wheel coupling can still be determined in the normal way using the familiar mechanical position display.

⚠️ The JOST FlashTronic only displays the locking condition of the fifth wheel coupling. The correct coupling status of the semi-trailer must be ensured by checking the lock in accordance with the installation and operating instructions of the fifth wheel coupling.

The JOST FlashTronic is only designed to be fitted to a JSK 40 or JSK 42 type fifth wheel coupling. Fitting on other fifth wheel couplings is not allowed.

Each JOST FlashTronic is marked with an article number, type designation, EC licence number as well as an ADR test number. These are designed to give the unit a unique identity.

3 General information

1. Article number
2. Type designation
3. ECE approval
4. ADR test number

The JOST FlashTronic has its own power supply. There is no need to connect it to the vehicle’s electrical system. The average operating duration is 3 years, and is not affected by the annual mileage of the system. The operating times may vary depending on the operating conditions.

⚠️ The JOST FlashTronic represents a source of waste materials which contain environmentally harmful substances. A symbol (crossed-out refuse bin) on the housing of the JOST FlashTronic indicates that the component is not allowed to be disposed of as domestic waste.

Comply with the current national waste regulations for disposal of the components. For more information, contact your local waste collection facility or JOST.
4.1 List of components

1 JOST FlashTronic
2 JOST FlashTronic handle (with magnet)
3 2 x shim D6
4 2 x cap-head Allen screw M6 x 10 mm
   for fifth wheel coupling with top plate liners (low-maintenance)
   2 x cap-head Allen screw M6 x 16 mm
   for standard fifth wheel coupling
5 2 x spacer sleeve Ø 12 x 8 mm for standard fifth wheel coupling

4.2 Removing the handle

Note
Comply with the tightening torque!

- Unscrew the screw (1) at the handle (2).
- Fold the handle (2) down.
- Unhook in the spring (3).
- Unscrew the screw (1) completely and remove the handle (2).
Unhook the double spring (1).

Note
Comply with the tightening torque!
Unscrew and remove the screw (1).

Remove the handle (1) from the fifth wheel coupling.
4.3 Installing JOST FlashTronic

Only perform on fifth wheel coupling with low-maintenance top plate liners

Note
Comply with the tightening torque!

- Remove the screws (2) from the right-hand top plate liner (1).
- Remove the top plate liner (1) from the fifth wheel coupling.

Background Image

Figure A for low-maintenance fifth wheel coupling with top plate liners
- Align template (1) as shown.

Figure B for standard fifth wheel coupling
- Align template (1) carefully with the outer contour of the fifth wheel coupling and the handle passage as shown.

Note
Make sure both templates are used correctly!
One template is provided for the standard fifth wheel coupling type, and another for the low-maintenance fifth wheel coupling type.

Note
Make sure that the distance between both holes (2) exactly matches the hole pattern of the fastening plate of the JOST FlashTronic.
- Transfer the drilling points (2) of the template (1) onto the fifth wheel coupling and drill through with a spiral drill bit Ø 5.0 mm.
- Tap an M6 thread.
- The screw-on area (4) of the FlashTronic must be free from burrs. Remove or smooth off any casting flash from the FlashTronic before installation.
4 Installation

Note
Comply with the tightening torque of 6.5 Nm!

- Screw on the JOST FlashTronic (1) from the underside of the fifth wheel coupling using cap-head Allen screws (2) and shims (3) (low-maintenance fifth wheel coupling M6 x 10 mm, standard fifth wheel coupling M6 x 16 mm).

Note
With standard versions, use the supplied spacer sleeves Ø 12 x 8 mm (5), see Figure B.

1 JOST FlashTronic
3 2 x shim D6
4 2 x cap-head Allen screw M6 x 10 mm for fifth wheel coupling with top plate liners (low-maintenance)
   2 x cap-head Allen screw M6 x 16 mm for standard fifth wheel coupling
5 2 x spacer sleeve Ø 12 x 8 mm for standard fifth wheel coupling
A Low-maintenance fifth wheel coupling
B Standard fifth wheel coupling

Note
Install the handle by following the procedure in reverse order, see section 4.2.
- Perform a function test, see section 4.5.
4 Installation

4.4 Exchanging JOST FlashTronic

Proceed as follows to replace old or damaged units:

- Remove the handle, see section 4.2.
- Unscrew and remove the cap-head Allen screws (4) from the JOST FlashTronic (1) from the underside of the fifth wheel coupling, and remove the old or damaged JOST FlashTronic (1).

![Diagram](FlashTronic/15)

**Note**
Comply with the tightening torque of 6.5 Nm!

- Screw on the new JOST FlashTronic (1) from the underside of the fifth wheel coupling using shims (3) and cap-head Allen screws (4) (A, low-maintenance fifth wheel coupling M6 x 10 mm; B, standard fifth wheel coupling M6 x 16 mm).
- Renew the fastening screws when exchanging the unit. Only use the supplied screws with screw locking compound.

**Note**
With standard versions, use the supplied spacer sleeves Ø 12 x 8 mm (5), see Figure B.

- Install the handle by following the procedure in reverse order, see section 4.2.
- Perform a function test, see section 4.5.

4.5 Function test

**The lock function is not allowed to be impaired by installation of the JOST FlashTronic.**

- Close the fifth wheel coupling.
- The magnet on the handle moves under the JOST FlashTronic.
- The JOST FlashTronic flashes once per second.
- Open the fifth wheel coupling.
- The magnet on the handle can be seen in front of the JOST FlashTronic.
- The JOST FlashTronic is switched off.

**Note**
When the fifth wheel coupling is locked and secured, the flashing frequency of the LED is automatically reduced after 10 minutes. The built-in LED then flashes once every 5 seconds.
### 5.1 Display with fifth wheel coupling opened

The locking edge (1) is not engaged when the fifth wheel coupling is open. The JOST FlashTronic (3) is switched off.

### 5.2 Display with fifth wheel coupling closed

- During hitching up, the lock of the fifth wheel coupling is closed by the king pin (5).
- The locking edge (1) of the handle lever (4) engages in the handle opening in the fifth wheel coupling plate. The magnet (2) is under the JOST FlashTronic (3) and switches it on.
- The fifth wheel coupling is now closed and locked.
- The JOST FlashTronic (3) starts to flash once every second.
- After 10 minutes, the flashing frequency is automatically reduced. The JOST FlashTronic then flashes once every 5 seconds.

⚠️ **The JOST FlashTronic only displays the locking condition of the fifth wheel coupling. The correct coupling status of the semi-trailer must be ensured by checking the lock in accordance with the installation and operating instructions of the fifth wheel coupling.**

- Deviating displays, e.g. if the LED is permanently lit, indicate a malfunction. Units with deviating displays should be renewed.
6 Servicing

To ensure good visibility of the display, the JOST FlashTronic should be cleaned to remove grease and other contamination. Do this regularly, at least every time when the vehicle is cleaned. Cleaning with a high-pressure steam cleaner is permitted.

The JOST FlashTronic should be checked once a year for damage. Damaged units must be renewed, since reliable function can no longer be assured in this case.

The average operating duration is 3 years, and is not affected by the annual mileage of the system. The operating times may vary depending on the operating conditions. To renew the JOST FlashTronic, proceed as described in section 4.