

# Truck World

A Bosch magazine  
for the aftermarket  
Edition 41, 03|25



## **Bosch J·E·T Blade**

Integrated spray  
nozzles enhance  
visibility even faster

[Page 2](#)

## **Knorr-Bremse**

New add-on  
for ESI[tronic]  
software

[Page 4](#)

## **Easy Connect**

Proper adapter cable  
for quick diagnostic  
connection

[Page 5](#)

Invented for life



**BOSCH**





Dear truck fans,

innovations shape the future. Bosch develops products enhancing driving safety and comfort while also improving the efficiency of repairs.

At the present edition of this magazine, you will read about Aerotwin J·E·T Blade wipers, an innovation improving the visibility out of the cabin and onto the road ahead. There’s also news concerning workshop software: the add-on for Knorr-Bremse systems in ESI[tronic] and the CRR 950 software. The latter supports the maintenance of common-rail injectors – even with existing tool sets.

Enjoy reading and have a great journey into a successful workshop future!

Your commercial-vehicle team

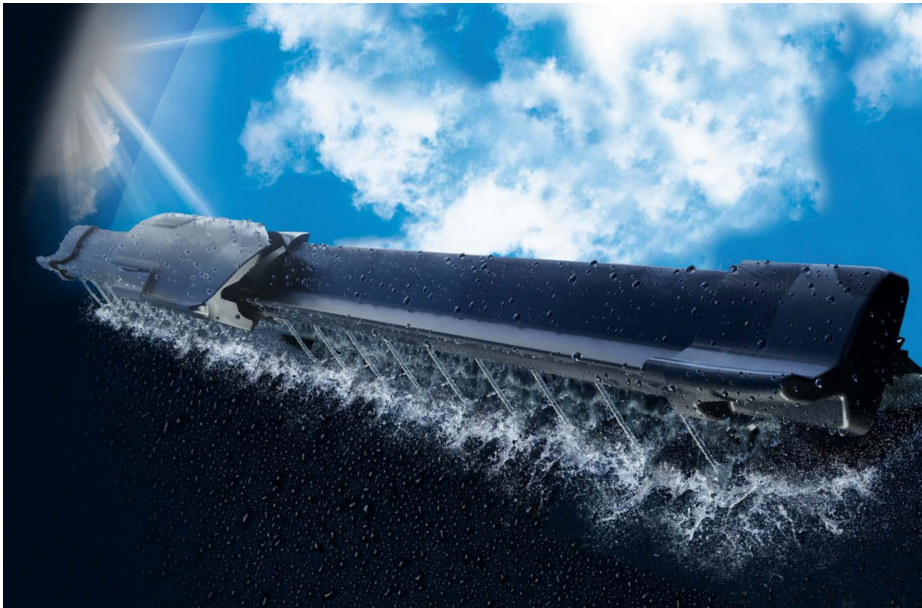
Start into the 2025 FIA ETRC



Ready, steady, go: first round of the 2025 season in Misano on May 18

# Water, go!

## Aerotwin J·E·T Blade: enhancing visibility in trucks even faster









Out on the road, visibility and safety are closely linked to one another. This is especially true in situations where – regardless of the weather – professionals, out on the road around the clock, need to deliver their loads on time. Rain and dirt on the windshield significantly affect the visibility and pose a major safety risk challenging the driver. After all, the same concentration level is required both at the start of the journey and even after many hours of driving. In order to meet these

high demands, Bosch now also offers Aerotwin J·E·T Blade wipers for commercial vehicles.

Enhance visibility now even faster

Often, part of the washer fluid sprayed onto the windshield by conventional spray nozzles is lost as spray mist, which has a significant effect on the visibility. In case of Bosch Aerotwin wipers with Jet Evolution Technology (J·E·T), the spray nozzles are integrated right into the wiper. The washer fluid is

Bosch Aerotwin J·E·T flat wiper blades for DAF trucks

					
DAF XD	09/2022	SDB	A 700N	3 397 009 00W	LHD 700/700
DAF XDC	09/2022	SDB	A 700N	3 397 009 00W	LHD 700/700
DAF XD Electric	09/2022	SDB	A 700N	3 397 009 00W	LHD 700/700
DAF XFC	10/2021	SDB	A 700N	3 397 009 00W	LHD 700/700
DAF XF Electric	10/2021	SDB	A 700N	3 397 009 00W	LHD 700/700
DAF XF II	06/2021	SDB	A 700N	3 397 009 00W	LHD 700/700
DAF XG	06/2021	SDB	A 700N	3 397 009 00W	LHD 700/700
DAF XG+	06/2021	SDB	A 700N	3 397 009 00W	LHD 700/700

SDB= Spray nozzle integrated into the wiper blade



sprayed directly in front of the wiper blade. This significantly increases the efficiency\* of the wiping performance. Without disruptive spray mist, the visibility is improved instantly. Aerotwin J·E·T Blade wipers now complement the well-proven range of Bosch wiper blades at the workshops. They are available for DAF trucks (see table) equipped with the non-heated nozzle technology as original equipment.

#### Advantages of Bosch Aerotwin

In addition to the integrated spray nozzles, the Aerotwin J·E·T Blade wipers also feature all of the characteristics and benefits of the entire Aerotwin line.

These include the patented Power Protection Plus wiper rubber technology with a long-life wiper rubber formula and two parallel Evodium steel spring strips ensuring excellent wiping performance – even under extreme weather conditions. Combined with the aerodynamic spoiler, the double spring strips increase the wiper blades' contact pressure on the windshield in case of increased air flow. This contributes to their outstanding wiping performance.

#### Sustainable packaging

By means of Aerotwin J·E·T Blade wipers, Bosch now also launched a commercial vehicle wiper blade onto the market which features a

completely plastic free packaging. The sustainable cellulose insert that holds the wiper in place can be disposed of as waste paper – along with the outer packaging.



Bosch Aerotwin wiper blade with sustainable cardboard rail made from molded wood fibers

## Bosch Aerotwin – outstanding structure and design



Pre-assembled adapter for DAF XF II

**Tailor-made, parallel high-tech spring strips** made from Evodium steel for perfect contact pressure and outstanding wiping performance

**Aerodynamic spoiler** for reduced windage and extremely low wiping noise



**Power Protection Plus wiper rubber technology** for optimum wiping performance, minimum wiping noise and an increased service life – even under extreme temperatures

\*Compared to wiper blades without integrated spray feature

#### Ready for aftermarket use

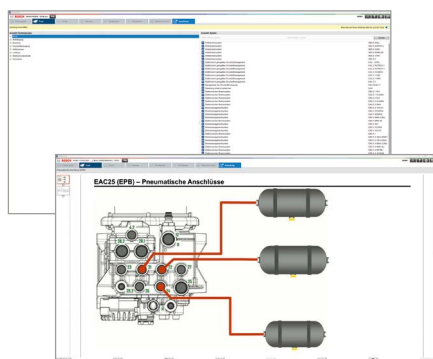
Aerotwin J·E·T Blade wipers are available for DAF trucks equipped with wiper blades featuring an integrated spray function as original equipment (see table on the previous page).

Wiper blades without an integrated spray function can not be replaced by wiper blades featuring Jet Evolution Technology.



# Knorr-Bremse Add-on for ESI[tronic]

## Access to new systems of Knorr-Bremse – including iTEBS® X trailer brake systems



**ESI[tronic] combines all diagnostic functions** previously provided by the programs NEO Green and ECUtalk into a single software solution.



**The adapter cable** is required when replacing the control unit in Knorr-Bremse EBS 5 systems.

**The KTS series V2\* and V3 are both compatible with the Knorr-Bremse Diagnostics Add-On**



With its high tolerance range, KTS Truck V3 ensures full communication capability. Even the older version, KTS Truck V2, also supports most communication functions\*.

\*except programming of EAC1+ and air dryer control units of Volvo V2 and Renault DXI.

Bosch KTS Truck, ESI[tronic] and vehicle-specific adapters offer workshops great flexibility for reliable commercial vehicle diagnoses. ESI[tronic] diagnostic software is available in four basic packages: **Truck** (commercial vehicles), **OHW 1** (agricultural vehicles), **OHW 2** (construction vehicles and engines), and **OHW 3** (material handling vehicles) – perfectly geared to meet the requirements of both large and small workshops.

### Knorr-Bremse Diagnostics Add-On

Ever since the ESI[tronic] update in August 2024, commercial-vehicle workshops have been able to use the Knorr-Bremse Diagnostics Add-On for the diagnoses, maintenance, and repair of Knorr-Bremse systems.

**A prerequisite for the Knorr-Bremse Diagnostics Add-On is an ESI[tronic] Truck-package license.**

### Future-proof workshop operations

The Knorr-Bremse Diagnostics Add-On offers a range of benefits including access to new systems of Knorr-Bremse such as iTEBS® X trailer brake systems. It combines the diagnostic functions of NEO and ECUtalk for commercial-vehicle and trailer systems. Interacting with the new cloud-based platform (OCT = online configuration tool) for advanced trailer diagnoses, it allows parameter adjustments and control-unit replacement in line with the latest cyber-security and SUMS regulations. In addition, the Knorr-Bremse Diagnostics Add-On provides access to genuine and specific Knorr-Bremse diagnostic functions. It allows, for instance, to program EAC1+ and EAC 2.5 air-dryer control units for Volvo and Renault vehicles. Regular system updates are synchronized with the ESI[tronic] software.

# Easy Connect: quick diagnostic connection

**ESI[tronic] includes data of 13,757 commercial vehicles, Easy Connect provides the matching adapter**

When performing professional diagnoses, workshops rely not only on Bosch ESI[tronic] software but also on the matching robust and workshop-friendly hardware. This includes the KTS Truck, which acts as a VCI (vehicle communication interface) to connect to the DCU 220, the diagnostic notebook with an 11.6-inch screen. The complete diagnostic solution is the KTS 900 package, which combines the KTS Truck and the DCU 220. In order to establish the diagnostic connection to the vehicle, Bosch offers Easy Connect, a comprehensive range of specialized and manufacturer-specific adapter cables.

## Simple and fast connection

Easy Connect simplifies the connection of the KTS Truck diagnostic module to the vehicle being serviced. Via Easy Connect, KTS Truck is connected directly to the OBD port. If the vehicle doesn't have an OBD port, it can easily be connected to the vehicle using the vehicle-specific adapter cables. These error-proof adapters increase the efficiency.

Practical SD truck-adapter suitcase: Volvo, Iveco (3 pins), Iveco, Mercedes-Benz (14 pins), Scania, Renault, MAN TG bullet terminal, MAN 2000 Serie, DAF and Scania bullet terminal

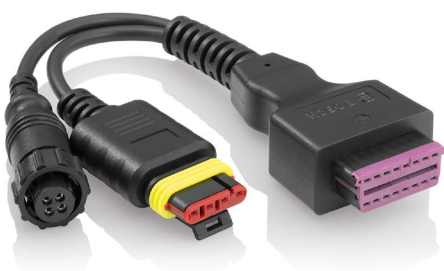
As the vehicle coverage of the diagnostic software continues to grow, the adapters will also evolve. Using Easy Connect, workshops are well-equipped for the future.



**Download the complete catalog of adapter cables clicking on "Downloads."**



DCU 220 convertible PC and KTS Truck



Adapter cable for agricultural vehicles by Claas, Massey, and Ferguson



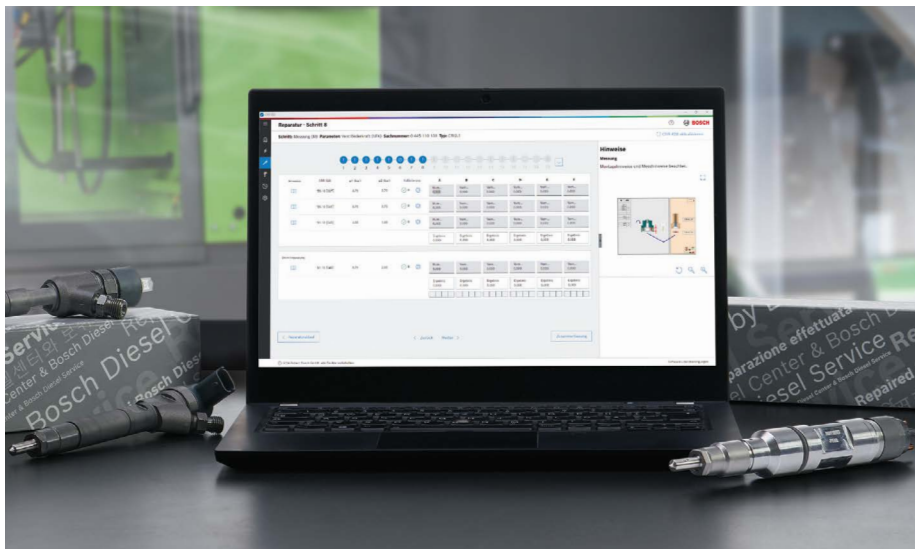
9-pin adapter cable for commercial vehicles of German manufacturers

## Combinations for CV diagnoses via ESI[tronic] Truck/OHW

Robust hardware suitable for workshops – for successful diagnoses.

- KTS Truck VCI – combined with DCU 220 or any other standard PC
- KTS 900 Truck VCI and PC – complete solution consisting of a KTS Truck and a DCU 220
- Adapter cables
- Manufacturer-specific adapter cables

# CRR 950: the injector repair software



**The new CRR 950 software:** Input forms and instructions are displayed together, making all important information available at a glance.

Due to its high efficiency and cost-effectiveness, diesel engines are the most versatile internal combustion engines. To remain economical and powerful while meeting increasingly strict emissions standards, injection systems are continually optimized. This includes higher pressures of several thousand bar, faster switching times, and flexible adaptation of the injection to operating conditions. The injectors in these systems are sophisticated precision components that require specialized knowledge and appropriate tools for repairs.

The new CRR 950 software supports the workshop in this process.

## **CRR 950 software: repairing injectors more easily**

The new CRR 950 software is easy to understand and allows for precise work due to its design. The new search function enables users to quickly find the right injector. The software allows clear and intuitive use – both the measurement area and the instruction area are displayed by the software, eliminating the need to switch between CRR and PDF viewer software.

## **Optimized work processes**

Up to six identical injectors can be repaired in parallel. Tasks such as connecting an adapter are performed only once per repair step and are used in parallel with all of the injectors. Additionally, the measurement of the injectors' internal distances is carried out simultaneously, thus contributing to a more efficient repair process.



Existing tool sets can continue to be used; their application is supported by the CRR 950 software.

## **Tailor-made repairs**

Depending on the detected fault, tailored repairs for individual diesel injectors or components may be necessary. CRR 950 provides information on each repair step, and a log printout shows the injector manufacturer, year of production, workshop name, and performance level. Report PDFs can be retained for audits and shared with customers. The coverage of injectors has been expanded: 447 CRI and 412 CRIN are now available. The software and database, which are continuously being updated, can be downloaded directly from Bosch. Since the hardware remains the same, repairs can start immediately.



## **Expert opinion**

**The Bosch Diesel Center Mezger in Schweinfurt, Germany,** is an authorized partner for the repair of Bosch diesel components.

**Since 2015, Mezger has been repairing solenoid valve injectors using Bosch tool sets.** The mechanics enthusiastically describe the new CRR 950 software: "The interface of the CRR 950 software is now even clearer, easier to understand and more user-friendly than in the previous version. This has optimized many processes. The large database and the work instructions in test steps help with the repair of common-rail injectors."



# Zexel is now present worldwide

## Bosch and Zexel start global consolidation



Production location in India



Production location in Brazil



Production location in Japan

Originally founded as licensed manufacturer Diesel Kiki Co. Ltd. in 1939, the Japanese brand Zexel is renowned to be part of the portfolio of the Bosch Group. Since the beginning of its market entry, Zexel has been associated with OE delivery and quality. It is recognized worldwide as a reliable solution for the aftermarket.

### Strategy for customer orientation

To ensure cost management and a secure supply chain, a global production consolidation between Bosch and Zexel was started. During this ongoing activity an increasing proportion of the Zexel portfolio will

be manufactured outside Japan in Bosch factories such as India and Brazil. The goal is a long term market solution for worldwide distribution. The production consolidation is a crucial part of it.

### Easy identification via the packaging label

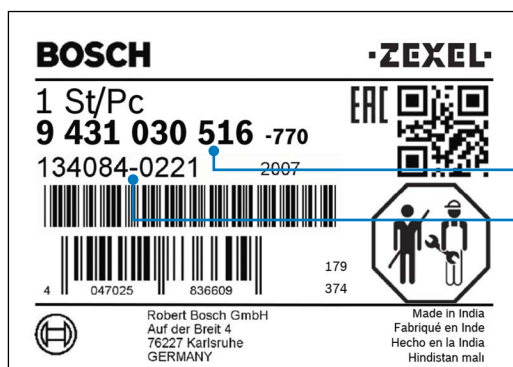
Due to the gradual consolidation process by product group, both labels will be active in the market at the same time. However, both cross references have been included on the new label so that it will be easy to identify the right part number.

### Always outstanding quality

As a designer and innovator in the diesel value chain for more than 100 years, Bosch has acquired extensive know-how in the production of high-quality diesel products. This knowledge and high quality standards from the original equipment are also incorporated into the production of spare parts for the aftermarket. Bosch and Zexel enjoy great customer loyalty and an excellent reputation for quality. These advantages are now combined through production consolidation and strengthen the brand awareness globally.

## Easy identification via the packaging label

### New label – Bosch and Zexel branded



### Easy to identify

- Bosch part number
- Zexel cross reference part number

### Still valid and in use – Zexel product label



# The new one! In 2025, Team Hahn Racing starts with a new truck!

## Bosch inside 2025 Hahn truck

- batteries
- crankshaft sensor
- camshaft sensor
- common-rail system
- fuel-filter replacement box
- fuses
- heavy-duty alternator
- intake-manifold pressure sensor
- oil filter
- relays
- ribbed V-belts
- wiper blades

## Dates: 2025 FIA ETRC

<b>Misano</b>	May 18	-	May 19
<b>Slovakia Ring</b>	June 8	-	June 9
<b>Nürburgring</b>	July 13	-	July 14
<b>Most</b>	Aug. 31	-	Sept. 1
<b>Zolder</b>	Sept. 14	-	Sept. 15
<b>Le Mans</b>	Sept. 21	-	Sept. 22
<b>Jarama</b>	Oct. 5	-	Oct. 6

Photo: Bartscher/Team Hahn Racing

## On a championship mission: Jochen Hahn runs for the title

In 2025, Jochen Hahn, six-time European champion and five-time runner-up at the FIA European Truck Racing Championship (ETRC), will compete for the title piloting a new Iveco race truck. Still being built at the Team Hahn Racing workshop close to Altensteig in Germany, the truck shall be ready for testing in early April. Mid-April, the team will head to the Autodrom Most in the Czech Republic for test rides. This year's season opener will take place in Misano, Italy, on May 18. There are a total of seven dates, on which the fans at the European race tracks



Photo: Bartscher/Team Hahn Racing

In 2025, Hahn will run for the title again

cheer at the drivers and their race trucks featuring more than 1,000 bhp.

### Sustainable truck racing

FIA ETRC was the first motorsport series at which all race trucks switched to 100% sustainable HVO

diesel. The championship's pace truck runs on bio-LNG. These technologies met the motorsport requirements and show how sustainability and performance can go hand in hand. In 2024, Team Hahn Racing introduced the fully electric E-Truck, which has been regularly featured in presentations. Most recently, it created quite some enthusiasm at the education fair in Ulm. Plans for hydrogen-powered engines are progressing, too.

[www.team-hahn-racing.de](http://www.team-hahn-racing.de)

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