

**HJS**  
Emission Technology

UNITED KINGDOM

# Quick Book LTI TX4 Euro 5



**RETROFIT EMISSION SOLUTION  
FOR THE LONDON BLACK CAB (TX4)**

**CLEANER. MORE EFFICIENT. FUTURE-READY.**

# How the HJS Emission Reduction Technology works

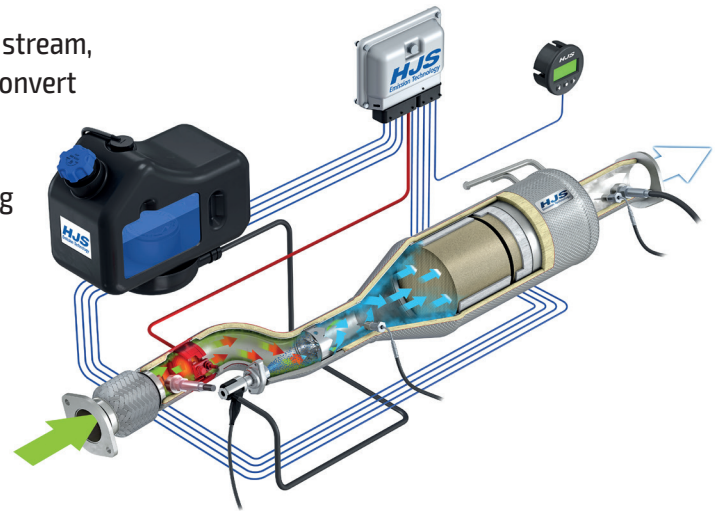
HJS Emission Technology has developed a retrofit Selective Catalytic Reduction (SCR) solution designed to reduce NOx emissions from Euro 5 LTI TX4 diesel models to Euro 6 emissions standards.

The system consists of an underfloor SCR catalyst, an AdBlue® tank, NOx and temperature sensors and an independent electronic control unit with driver interface. The system operates in combination with the vehicles Diesel Particulate Filter (DPF) and Diesel Oxidation Catalyst (DOC).

AdBlue® (urea solution) is precisely injected into the exhaust stream, where it decomposes and reacts within the SCR catalyst to convert nitrogen oxides (NOx) into nitrogen (N<sub>2</sub>) and water (H<sub>2</sub>O).

To maintain optimal conversion efficiency across all operating conditions, the system features an electronically controlled heater that raises exhaust gas temperature as required, particularly during cold starts and low-load urban driving.

The result is a highly efficient, integrated emissions control system capable of achieving NOx reduction rates of over 90%.

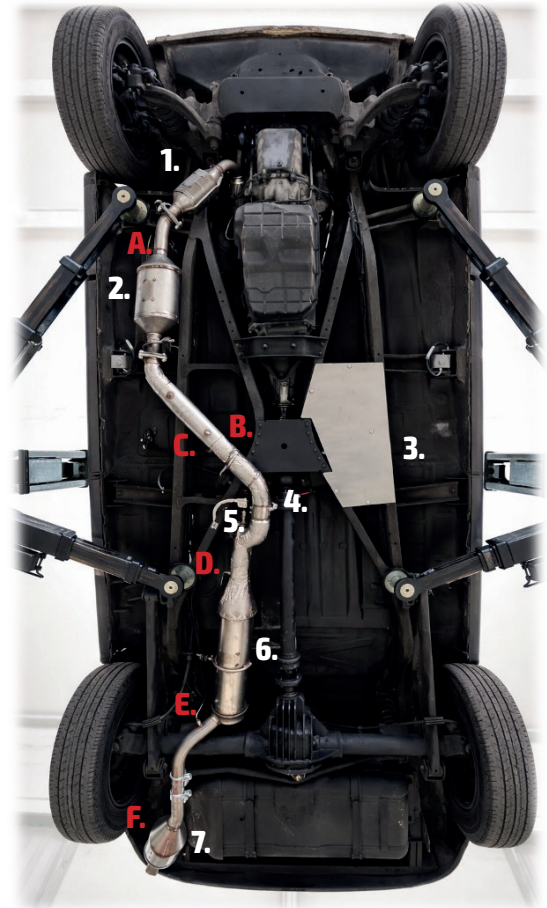


## Component Position Overview

1. DOC – Diesel Oxidation Catalyst
2. DPF – Diesel Particulate Filter
3. Exhaust Heating Element Control Unit
4. Exhaust Heating Element
5. AdBlue Injector
6. SCR- Selective catalytic reduction system
7. ASC - Ammonia Slip Catalyst

## Sensor Position Overview

- A. Temperature Sensor (OE)
- B. NOx Sensor 1
- C. Temperature Sensor 1
- D. Temperature Sensor 2
- E. Temperature Sensor 3
- F. NOx Sensor 2





## Display information and features

The HJS display provides a comprehensive, user-friendly overview of key vehicle information and is designed for effortless operation. It delivers convenient notifications on when and how much AdBlue needs to be refilled, as well as detailed fault descriptions.

For further information, please refer to the separate booklet included in the document folder provided upon vehicle handover.





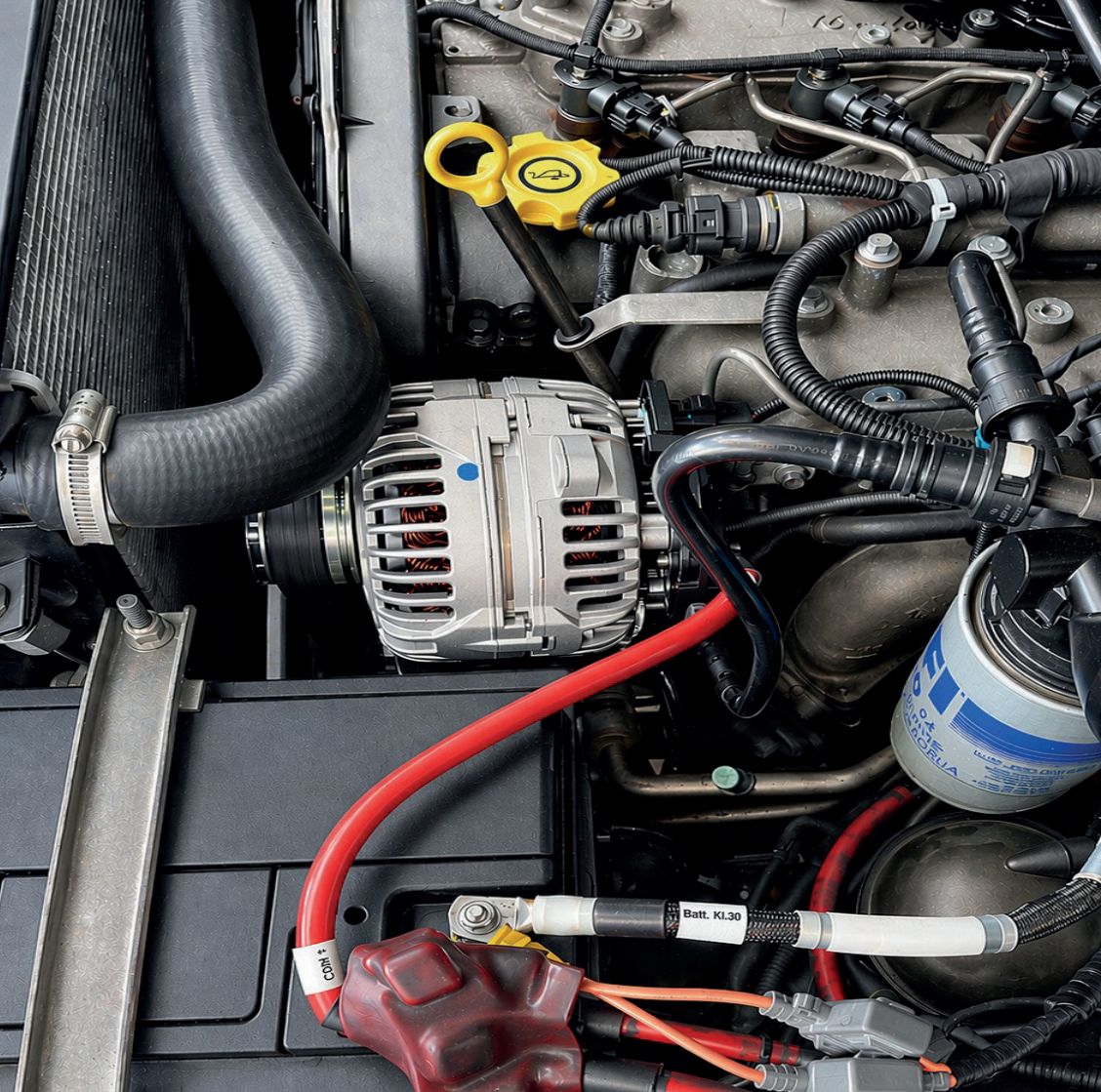
## AdBlue® tank position and specifications

The AdBlue® tank is located in the vehicle's boot and has a capacity of 20 litres, providing a range of approximately 2,500 miles depending on driving conditions.

The remaining range and refill level are displayed to the driver.

A funnel is recommended for refilling.

Only use automotive-grade AdBlue®, as the integrated quality sensor will detect incorrect fluid and trigger an error.



## New Alternator

A higher-capacity alternator has been installed in the engine compartment, delivering up to 150 A. This upgrade is required to supply the additional electrical power demand of the heating element.



## New EGR

A new EGR valve has been installed to ensure that the engine-out emissions are kept as low as possible, providing the best possible conditions for the HJS after-treatment system to achieve maximum efficiency.

# Backed by a Comprehensive 2-Year Warranty

All retrofit upgrades include a standard two-year warranty.

The warranty covers manufacturing and material defects. Claims must be handled through an approved HJS partner (Cricklewood Cab Carriers), who will assess the vehicle and submit the case in line with HJS warranty guidelines. Final decisions are made by the HJS warranty department.

**Important:**

Unauthorised repairs or modifications may void your remaining warranty. All work must be carried out by approved HJS partners only.



For full details, please refer to the separate booklet provided at vehicle handover.

**ANNUAL INSPECTION**

Date of Install: \_\_\_\_\_

Date of Inspection: \_\_\_\_\_

Stamp:  
**Technician**

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

**Useful Information**

Should you encounter an error message, please contact the company that installed the system.



An annual inspection is required within the first two years. You will be contacted automatically.



Should errors be ignored by the driver, the system is able to trigger a limp mode.

**ANNUAL INSPECTION**

Date of Install: \_\_\_\_\_

Date of Inspection: \_\_\_\_\_

Stamp:  
**Technician**

Name: \_\_\_\_\_

Signature: \_\_\_\_\_



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