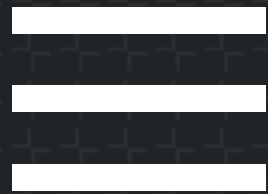


Dr James Kerr

Design & Engineering Director, EDC Automotive



Engineer



Design

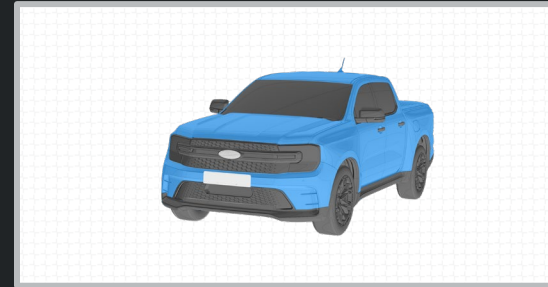


Create

EDC Business Overview



- EDC is a second stage manufacturer, supporting OEMs to bring special edition vehicles to market at lower volumes than achievable through factory programmes.
- All vehicles are converted on pre-registration vehicles through second stage whole vehicle type approval with approvals issued through the VCA for the UK and STA for EU.
- EDC have two sites in the UK with 170,000 sqft of manufacturing and office space.
- New EU Manufacturing Facility in development - due to be online in January 2027
- EDC will produce 7,000 conversions in 2026 to 22 EU markets
- All conversions are directly to OEMs with vehicles sold through their dealer network.
- EDC hold product liability insurance for £10m per individual case, provide a warranty on the conversion to match the base vehicle warranty and hold all parts for a minimum of 10 years from the end of production for aftersales.
- EDC hold ISO9001, ISO14001, CoP through the VCA, Ford Pro Converter, Stellantis LCV Approval, VW Approved Converter and Mercedes Strategic Partner.



Mission Statement

“Our mission is to design, engineer and assemble exceptional special-edition vehicles with speed and precision - elevating OEM products and delivering distinctive customer experiences.”

“We combine innovation, craftsmanship and operational excellence to deliver agile, flexible, and scalable solutions for commercial vehicles and passenger cars across Europe. Through strong partnerships, advanced engineering and a commitment to quality, we help OEMs move faster, unlock new value and stand out in a competitive market.”

EDC Portfolio

Over the last 10 years, EDC have designed and produced 18 type approved vehicles variants and converted over 20,000 vehicles for various OEMs that have been supplied directly through their dealer networks.

Below are some of the examples:



Ford Transit Custom MS-RT
2015 - Current



Stellantis K0
2022 - Current



Volkswagen Transporter Sportline
2021 - 2023



Ford Ranger MS-RT
2017 - Current



INEOS Grenadier
2024 - Current



Ranger 2-Seat
2026 - Current

PRODUCT OFFERING

Our main product offering including exterior bodykits, interiors, suspension and wheels and tyres.

Available as:

- Halo product (top of line)
- Trim line
- Special Interest Project (SIP) – short run (Black Edition, Launch Edition, Anniversary etc)

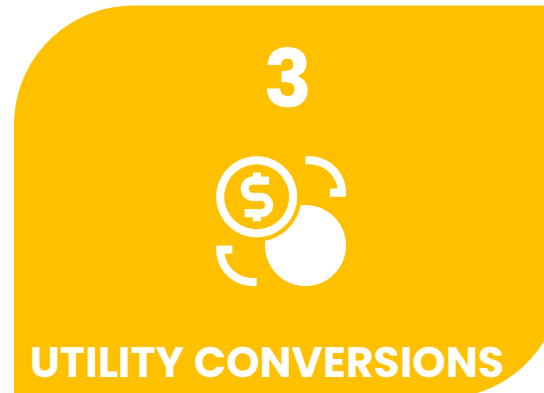


We offer adventure and offroad editions to allow OEMs to offer their product to a different market segment

- Bodykits and Interiors
- Suspension and wheels/tyres
- Off road accessories and options
- Available as Halo, Trim Line or SIP

Recent utility products include:

- Bulkhead and load space creation on SUVs and Pick ups
- Seating configuration changes
- GVM upgrades



EDC EUROPEAN COVERAGE



PONTYPOOL

120,000 sq ft EDC HQ with 120 staff on-site



DAGENHAM

50,000 sq ft Ford MS-RT operation



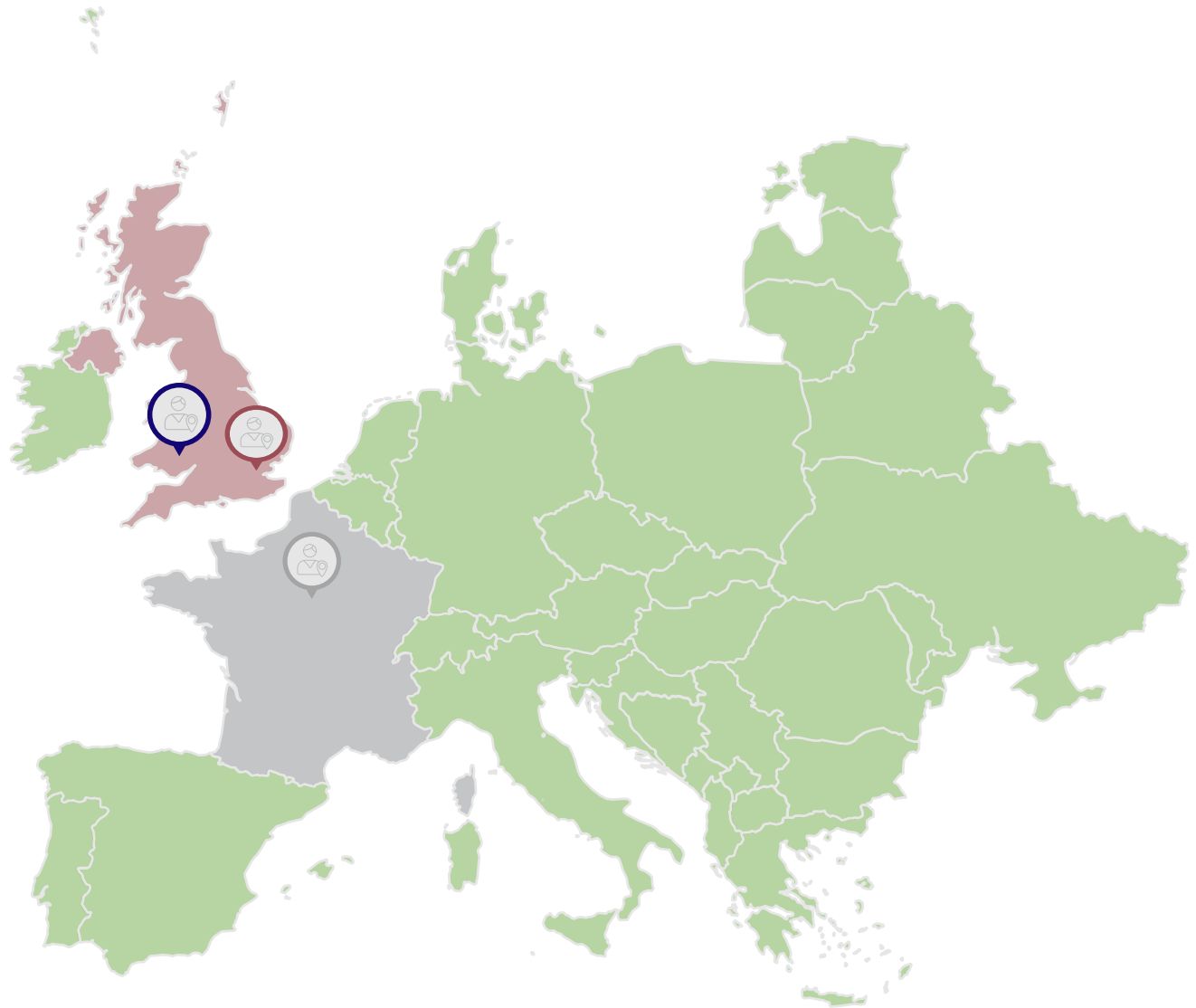
PARIS

EDC's parts distribution center for EU supply

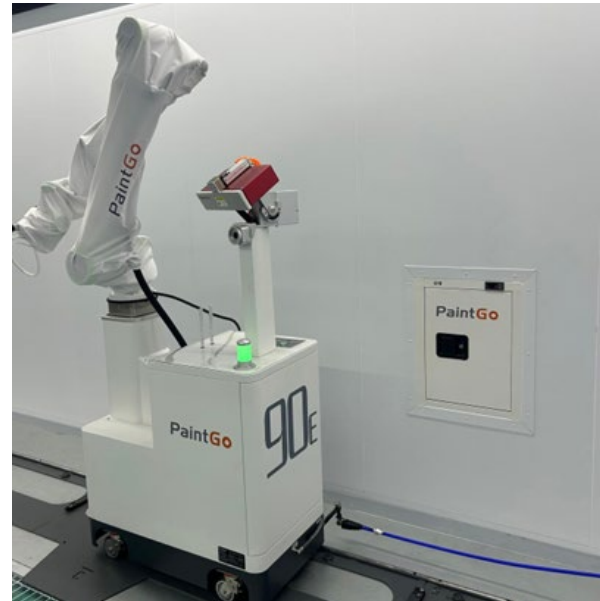


EU LOCATION TBC

New EDC EU facility coming soon



EDC Pontypool Facility



A

Production Line

- + 120 members of staff
- + Head office function

B

Excellence & Quality

- + Product Engineering on-site

C

Spray Booths

- + Two robotic spray arms
- + Nine dedicated spray booths

D

Size

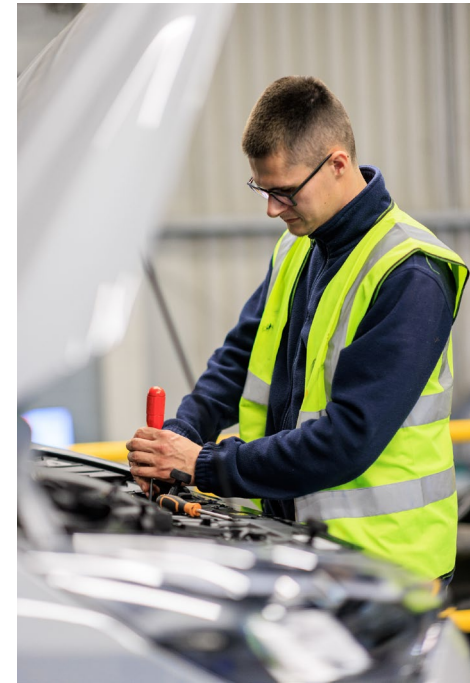
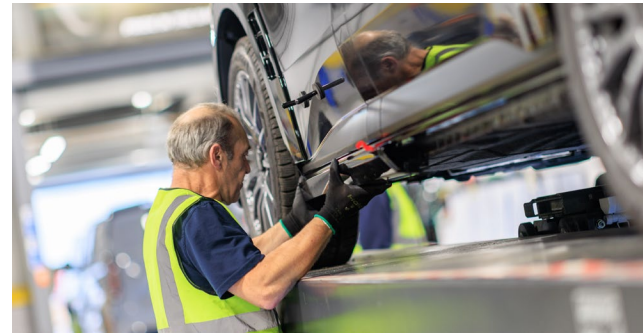
- + Vehicle storage for 700 vehicles
- + 120,000 sq ft facility

Ford Dagenham

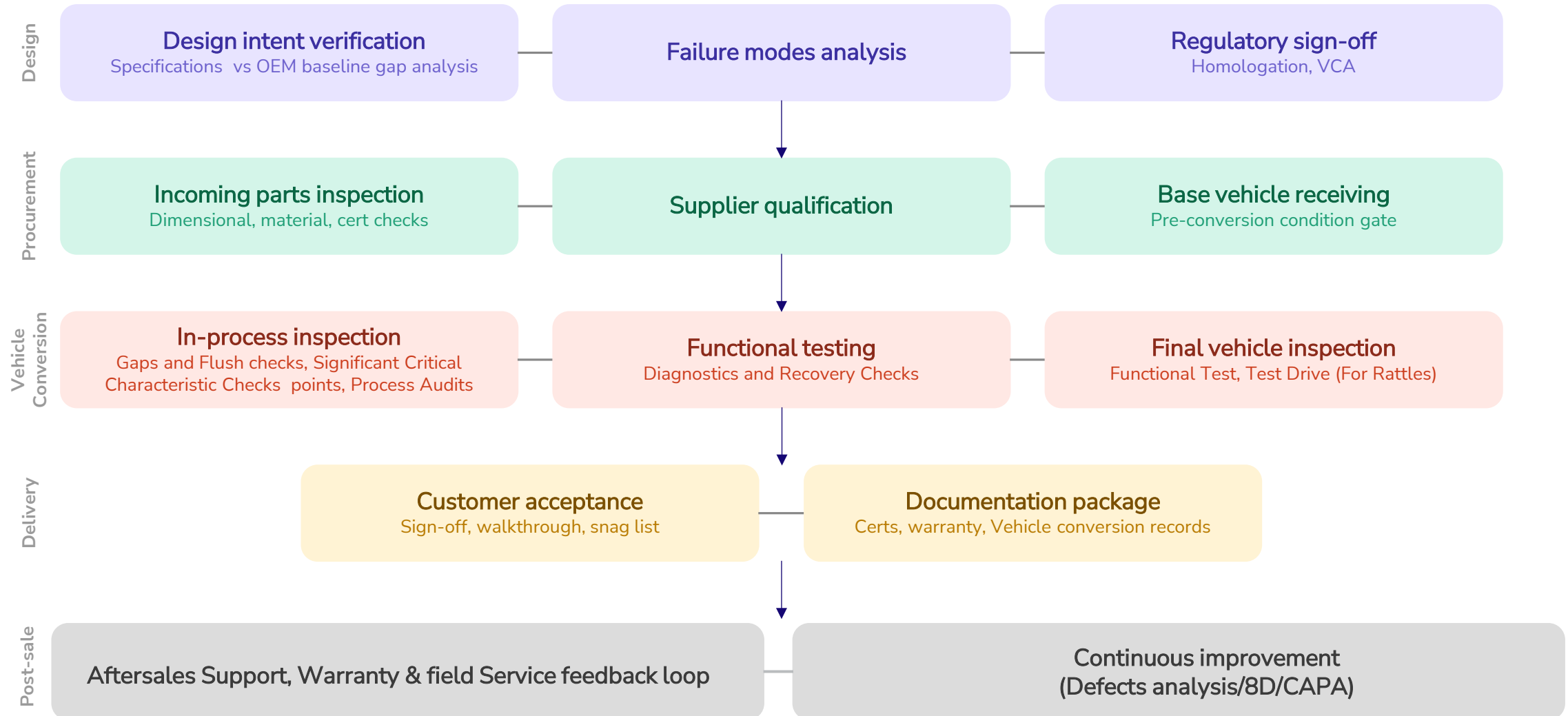
MS-RT assembly is based in a 50,000 sq ft facility, employing over 200 members of staff.

The facility incorporates:

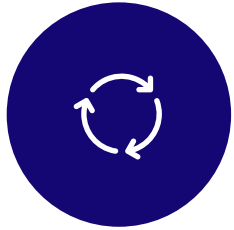
- + Production and manufacturing lines
- + Five-station paint lines
- + Office space
- + Showroom
- + Warehouse
- + Production capacity of up to 8,000 vehicles per year



Product Delivery



TESTING & HOMOLOGATION



WHEELS

TUV & KBA Wheel validation with impact, radial fatigue and bending fatigue.



BODY PLASTICS

External lab testing involves Low temperature impact testing (-20Deg.) alongside Thermal expansion and UV aging tests.



BOND

3M developed and tested automotive tape. Internal validation of 3M products with EDC plastics.



INSPECTION

Vehicle & component scanning using Faro Quantum to ISO 10360-12:2016 standard.



AIR BAG TESTING

TUV Testing to ISO 26262 UN ECE R129 R16 & R17.



SUSPENSION TESTING

Handling, durability and acceleration testing.



AIRFLOW & COOLING

Radiator grills & openings. Designs validated to ensure no reduction in cooling or function.



ELECTRICAL TESTING

Anti-pitch testing with monitoring and prevention of error code generation.

TESTING & HOMOLOGATION



RADAR TESTING

Material characterisation thickness optimization to the bumper and grill materials.



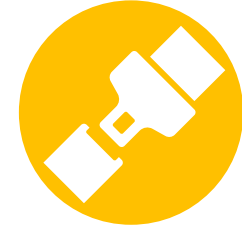
PDC SENSOR TESTING

Ultrasonic cone assessment performed alongside physical testing with PDC activation.



RAMP CLEARANCE

CAD evaluation @ 15 degrees with physical testing and ramp loading.



INTERIOR

All interior materials used are tested for chemical compatibility and durability.



PRESSURE WASHING

Products are tested to ensure no water ingress or trapping issues and loss of attachments.



PAINT

Colour matching using BYK spectrophotometer. Testing paint adhesion on all EDC materials.



SQUEAK & RATTLE

Squeak and rattle assessments are tested and conducted over multiple road surfaces.



Thank you

Testing & Homologation

WHEELS

- TUV & KBA Wheel Validation
 - Impact
 - Radial Fatigue
 - Bending Fatigue Stress 2,000,000 Cycles
- Finite Element Stress Analysis
- Additional Kerb Impact Testing to Failure AK-LH 08

BODY PLASTICS

- External Lab Testing
 - Low Temperature Impact Testing -20 Deg. C ISO 179
 - Thermal Expansion Characterization ISO 11359-2 LCTE
 - UV Aging Test 1000 hrs to ISO 4892-3

BOND

- 3M Developed & Tested Automotive Tape. Formulated for Latest LSE Clearcoat
- Internal Validation of 3M products with EDC plastics including climatic chamber testing
- Teroson MS 9399 - Fast Cure High Modulus two Pack Bond, It cures independently of atmospheric moisture to an elastic product, and is free from solvents, isocyanates, and silicones

INSPECTION

- Vehicle & Component Scanning Using Faro Quantum to ISO 10360-12:2016

AIR BAG TESTING

- TUV Testing to ISO 26262 UN ECE R129 R16 & R17

SUSPENSION TESTING

- Handling assessment
- Durability Testing – Accelerated Testing

AIRFLOW & COOLING

- Radiator Grills & Openings. Designs validated to ensure no reduction in cooling or function.

ELECTRICAL TESTING

- Anti-Pinch Testing – Steps
- Monitoring & Prevention of Error Code Generation

RADAR TESTING

- Material Characterization – Thickness Optimization. Bumper & Grill Materials - TPO
- Radar Reflection Simulation

PDC Parking Distance Control Sensor

- Ultrasonic Cone Assessment
- Physical Testing. PDC Activation

RAMP CLEARANCE

- Cad Evaluation @ 15 Deg. Minimum Ramp Angle
- Physical Testing. Ramp Loading

INTERIOR

- Interior materials, trim and badging tested for chemical compatibility and durability

PRESSURE WASHING

- Tested to ensure no water ingress or trapping issues & loss of attachments

PAINT

- Colour matched to vehicle using BYK spectrophotometer in development and production.
- Nominal paint thickness optimised for the colour opacity and controlled in series using spray out cards.
- Paint adhesion validated (cross hatch testing) on all MS-RT materials and repeated on new components.

SQUEAKS AND RATTLES

- Squeaks and Rattles assessments and testing conducted over multiple road surfaces.

Testing & Homologation

2018/858, referencing 715/2007

Multi-Stage CO₂, Fuel Consumption, Emissions and Electric Range

- Study of Mass, Rolling Resistance and Aerodynamic drag affect to be carried out to create WLTP Vehicle High Declaration
- Very minimal change to CO₂ expected.

Regulation (EU) 19/2011

Statutory Plates

- Format and location of statutory plate is inspected

UN ECE Regulation 48

Lighting Installation

- Check positions and visibility of existing lights are not affected by conversion (e.g. ride height change, rear spoiler)

1230/1212

Masses & Dimensions

- Verification of declared dimensions and weights on a representative vehicle

UN ECE Regulation 39

Speedometers & Odometers

- Check to confirm speedometer is not adversely affected by new wheel & tyres (Calculation expected, physical test may be required)

Regulation (EU) 109/2011

Spray Suppression

- Inspection of wheel arch coverage

UN ECE Regulation 142

Installation of Tyres

- Confirmation that tyres with suitable load and speed ratings are fitted

UN ECE Regulation 61

Exterior Projections

- Inspection of bumper, grille and splitter to confirm compliance with requirements

UN ECE Regulation 95

Lateral Collision Protection

- If base vehicle seats are fitted with airbags, a test will be required to prove that airbag deployment times are not affected by the converted seats

UN ECE Regulation 127

Pedestrian Safety

- Potential Lower Leg to bumper test may be required, however evidence available from existing Stellantis design may demonstrate compliance, eliminating the need for additional testing.

Scan to give your feedback

Thank you for attending

