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FORD ESCORT RS COSWORTH TB3403 TURBO RESTORATION AND HYBRID UPGRADE BY BG TURBO

PRESENTATION OF THE FORD ESCORT RS COSWORTH

The Ford Escort RS Cosworth, produced between 1991 and 1996, is one of the most iconic homologation sports cars of the 1990s. Developed for Group A rally competition, it is powered by a 2.0L turbocharged 16-valve engine and equipped with a permanent all-wheel-drive system.

At the heart of its performance lies the Garrett TB3403 turbocharger, reference 452059-0001, designed to deliver strong mid-range torque and reliable high-boost operation. Today, these turbochargers have become increasingly rare, making professional restoration and hybrid solutions essential to preserve both performance and originality.



Vous avez une **question**, un **besoin**, un **projet** ?

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ACTUALITÉ



Peugeot 205 Turbo 16: K26 Turbocharger Restoration (53269886418) by BG Turbo

Discover how BG Turbo restores the K26 turbocharger (ref. 53269886418) fitted to the iconic Peugeot 205 Turbo 16. French expertise, high-precision work, and full component listing.

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ACTUALITÉ



Turbocharger Restoration for Nanni Diesel 4.38L Engines – Toyota CT12B | BG Turbo

BG Turbo restores Toyota CT12B turbochargers fitted to Nanni Diesel 4.380 TDI and 4.390 TDI marine engines. Professional turbo reconditioning in France to OEM standards.

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TURBOCHARGER RESTORATION BY BG TURBO

BG Turbo offers a complete restoration service for the Garrett TB3403 turbocharger used on the Ford Escort RS Cosworth. Each turbocharger is fully disassembled, cleaned, and meticulously inspected by experienced technicians.

Critical components such as the rotating assembly, bearings, seals, turbine wheel, compressor wheel, and housings are measured and checked against manufacturer tolerances. When required, worn or damaged parts are replaced with high-quality equivalent or original-spec components.

Once rebuilt, the turbocharger is dynamically balanced at high speed to ensure reliability, performance, and long service life. BG Turbo can also propose a hybrid upgrade, allowing improved airflow, increased torque, and enhanced power delivery while maintaining compatibility with the original engine architecture.

For restoration or hybrid upgrade requests, please use our dedicated repair form:

<https://www.bg-turbo.com/reparation-renovation-reconditionnement>



WHY CHOOSE BG TURBO FOR TURBO RESTORATION IN FRANCE

BG Turbo is a French-based turbocharger specialist workshop, combining artisanal expertise with advanced technical equipment. Unlike mass-production rebuilders, BG Turbo focuses on precision, durability, and tailored solutions for classic, performance, and rare vehicles.

With extensive experience in Garrett turbochargers and Cosworth applications, BG Turbo ensures that each restored or hybrid turbo meets the highest standards of reliability and performance. Our workshop supports customers across France and Europe, offering expert advice and long-term solutions for rare turbocharged vehicles.

BG Turbo restores and hybrid-upgrades GT1752S turbochargers for Nissan Patrol and Safari RD28T engines. CNC machining, MFS Performance forged wheels and high-speed balancing in France.

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ACTUALITÉ



Restoration of the GTB2259VKLR Turbo for Maserati Ghibli Diesel by BG Turbo

BG Turbo restores the GTB2259VKLR turbocharger fitted to the Maserati Ghibli Diesel 3.0 V6. French expertise in professional turbocharger reconditioning.

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ACTUALITÉ



Yamaha Marine SX421KS & SX422KS Turbocharger Rebuild – BG Turbo Expertise

BG Turbo rebuilds Yam, [△] Marine SX421KS and SX422KS turbochargers fitted to ME370STI and ME420ST engines. Complete marine


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ACTUALITÉ



Restoration of the 3 Turbochargers on the BMW M550d xDrive – BG Turbo Expertise on the N57 Engine

BG Turbo restores all three turbochargers of the BMW M550d xDrive equipped with the N57D30SI engine. French turbo specialists, BorgWarner units, advanced technical expertise and over 2,000 turbos in stock.

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TURBOCHARGER TECHNICAL SPECIFICATIONS AND PARTS LIST

Vehicle compatibility:

1991–1996 Ford Escort RS Cosworth 4x4 (GAL)

Turbocharger identification:

Turbocharger model: TB3403

Manufacturer: Honeywell Garrett

General specifications:

Part number: 452059-5001S

Previous version: 452059-0001

OE numbers: YB1195/2, YB1195D, 6844118, V92HF6K682AA, V92HF-6K682-AA, YB1195/07

Engine codes: YBTN5F, N5F, YBT N5E/F

Displacement: 2.0 L, 1994 cc

Configuration: 4 cylinders, 16 valves

Fuel type: Petrol

Power output: 162 kW / 220 HP

Maximum engine speed: 6000 rpm

Turbo geometry:

Compressor housing angle α : 71°

Turbine housing angle β : 320°

Turbine housing A/R: 0.63

Main turbo components:

CHRA: 409853-0093 (409853-5093S)

Bearing housing: 430027-0039 (430027-0025), water-cooled

Turbine wheel: 451311-0014 (451311-0003), inducer 59.0 mm, exducer 48.35 mm, trim 67, 11 blades

Compressor wheel: 441341-0002, inducer 47.65 mm, exducer 69.0 mm, trim 46, 7+7 blades

Backplate: 409629-0017

Heat shield: 409639-0000 (409627-0000, 103121-0000)

Repair kit: 707897-0001 (dynamic)

Turbine housing: 413746-0005

Compressor cover: 409589-0316 (434157-0001)

Actuator: 430099-0062

Wastegate settings:

Wastegate pressure: 0.410 – 0.480 bar

Wastegate rod lift: 0.38 mm

Gaskets:

Turbine inlet gasket: 409039-0001 (stainless steel, single port)

Turbine outlet gasket: 210242 (steel)

Oil outlet gasket: 210021 (paper)

Oil inlet gasket: 210023 (paper)

Applications:

1991–1996 Ford Escort RS Cosworth equipped with YBTN5F or N5F engine




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replacement of worn components, and high-speed dynamic balancing.

Is it possible to upgrade this turbocharger with a hybrid configuration?

Yes, BG Turbo offers hybrid turbo solutions to improve airflow, torque, and power while maintaining engine compatibility.

Do you accept turbochargers shipped from outside France?

Absolutely. Customers from all over France and Europe can safely ship their turbochargers to our workshop for restoration or hybrid upgrades.

HASHTAGS

#FordEscortCosworth #TB3403 #GarrettTurbo #TurboRestoration #HybridTurbo
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Leave a review for our BG Turbo workshop if you were satisfied.

https://g.page/r/CcAlkUyx_KqqEBO/review

Download the technical news



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BG Turbo, un artisan Français, une entreprise à taille humaine.

[VOUS NE TROUVEZ PAS VOTRE TURBO ?](#)

A PROPOS

Nous sommes experts dans la vente (turbo neuf et turbo en échange standard) et la réparation de turbocompresseurs toutes marques pour des véhicules particuliers, véhicules de compétition, turbos marins, turbos poids lourds, turbos agricoles

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