ACTUS & CONSEILS

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.

Presentation of the Nissan Patrol and Nissan Safari RD28T

The Nissan Patrol, also marketed as the Nissan Safari in certain regions, is a legendary 4x4 known worldwide for its durability and off-road capability. Models produced between 1997 and 2000 and powered by the RD28T or RD28TI Y61 diesel engines are particularly appreciated for their robust six-cylinder design and long service life.

This 2.8-liter turbocharged inline-six diesel engine delivers strong low-end torque, making it perfectly suited for demanding environments, towing and off-road use. At the heart of this powertrain lies the Garrett GT1752S turbocharger, which plays a key role in engine performance, responsiveness and efficiency. Over time, thermal stress, mileage and operating conditions can lead to wear and reduced turbo efficiency.

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

Contactez-nous !

ACTUALITÉ

BG Turbo dans GÉNIE MÉCANIQUE sur RMC Découverte : expertise turbo mise à l'honneur dans un reportage RMC Découverte sur la Porsche 911

BG Turbo a eu le plaisir de participer à la nouvelle émission GÉNIE MÉCANIQUE sur RMC Découverte avec Aurélien Letheux

Plus d'info

ACTUALITÉ

Visite de l'atelier BG Turbo à Marseille – Avec GLB Gaillard le Bricoleur

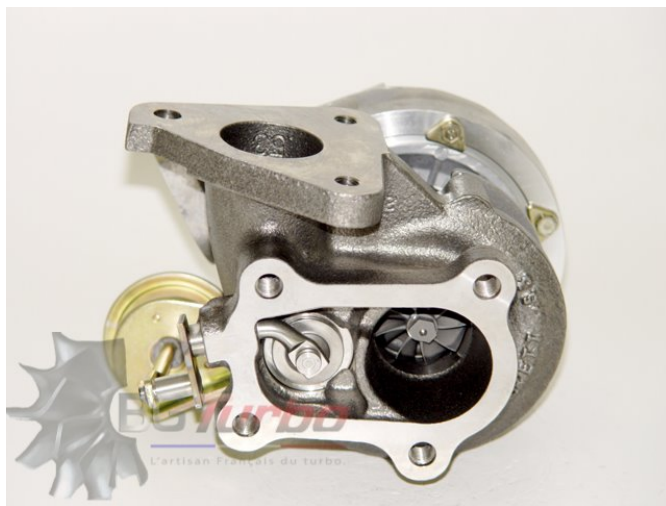
Evan, YouTubeur de la chaîne GLB – Gaillard le Bricoleur – visite l'atelier BG Turbo à Marseille pour la restauration du turbo de sa R5 Alpine Turbo.

Plus d'info

Complete restoration of the GT1752S turbocharger by BG Turbo

BG Turbo offers full restoration services for the Garrett GT1752S turbocharger fitted to Nissan Patrol and Safari RD28T engines. Each turbocharger is completely disassembled to allow thorough inspection of all components. Wear parts are replaced, reusable components are cleaned and measured, and all tolerances are verified according to manufacturer specifications.

The restoration process includes inspection or replacement of the CHRA, water-cooled bearing housing, turbine and compressor wheels, back plate, heat shield, gaskets and repair kit. The rotating assembly is precisely balanced to ensure reliability, smooth operation and long service life. Wastegate settings are adjusted either to original factory specifications or adapted to the selected performance configuration.



GT1752S turbo hybrid upgrade – BG Turbo expertise

In addition to standard restoration, BG Turbo offers hybrid turbo upgrades for the GT1752S. All hybrid work is performed in-house. BG Turbo machines compressor housings directly and carries out the complete turbo preparation process. We maintain stock of MFS Performance forged compressor wheels, known for their superior strength and airflow efficiency compared to standard cast wheels.

STAGE 1
MFS Performance forged wheel with the same diameter as the original wheel + high-speed balancing.
This stage provides a 7 to 12% increase in low-end torque and power while maintaining near-original turbo behavior and excellent reliability.

STAGE 2
Larger MFS Performance forged wheel + CNC machining of the compressor housing + high-speed balancing.
This stage delivers a 15 to 20% increase in low-end torque and power, significantly improving throttle response and drivability while remaining suitable for controlled road and off-road use.

Each hybrid turbo project is carefully tailored to the vehicle's actual use and customer expectations.

Fonctionnement d'un turbocompresseur expliqué par Sylvain Lévy Vilebrequin | BG Turbo

Découvrez comment fonctionne un turbo grâce à la vidéo pédagogique de Sylvain Lévy et Pierre Chabrier de la chaîne YouTube Vilebrequin. Explications simples et claires pour passionnés et curieux.

Plus d'info

ACTUALITÉ

Est-ce normal d'avoir du jeu dans l'axe d'un turbo ?

Faut-il s'inquiéter d'un jeu dans l'axe d'un turbo ? Explications par BG Turbo Vous avez démonté votre turbocompresseur et vous constatez du jeu dans l'axe du turbo ? Vous vous demandez si cela signifie que votre turbo est HS ? Chez BG Turbo, spécialiste de la rénovation et de l'équilibrage de turbocompresseurs, nous faisons le point sur cette question fréquente, souvent mal comprise.

Plus d'info

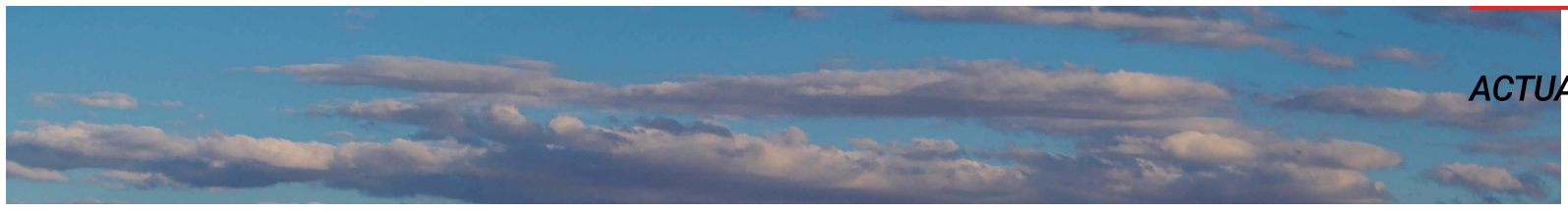
ACTUALITÉ

Comment amorcer un turbo ?

Regardez notre vidéo pour avoir des conseils pour amorcer un turbo.

Plus d'info

ACTUALITÉ



The advantages of BG Turbo, a French turbo specialist workshop

BG Turbo is a French workshop dedicated exclusively to turbocharger repair, restoration and hybrid upgrades. Unlike standard exchange programs, every turbocharger is treated individually with a skilled, technical and artisanal approach. Our in-house machining capabilities, high-speed balancing equipment and expertise with MFS Performance components allow us to deliver reliable, durable and performance-oriented solutions.

Based in France, BG Turbo supports customers nationwide and across Europe, with recognized expertise on Garrett turbochargers used in diesel and 4x4 applications.

To request turbo restoration or hybrid upgrade services, please use our dedicated repair form:
https://www.bg-turbo.com/reparation-renovation-reconditionnement

Parts list

Part number: 701196-5007S
Previous versions: 701196-0001, 701196-0002, 701196-0006, 701196-0007, 701196-1, 701196-2, 701196-6, 701196-7
OEM number: 14411VB300, 14411VB301, 14411-VB300, 14411-VB301
Description: Nissan Safari, Patrol
CHRA: 479054-0003 (479054-5003S, 479054-0002)
Turbo model: GT1752S
Engine: RD28T, RD28TI Y61, RD28 Euro-2
Engine manufacturer: Nissan
Displacement: 2.8 L, 2800 cc, 6 cylinders
Fuel: Diesel
Power: 106 / 129 hp
Angle α (compressor housing): 150°
Angle β (turbine housing): 115°
Bearing housing: 479817-0001 (water cooled)
Turbine wheel: 433263-0001 (Ind. 44.55 mm, Exd. 37.49 mm, 9 blades)
Compressor wheel: 436131-0002 (Ind. 38.6 mm, Exd. 52 mm, 6+6 blades, superback)
Back plate: 480303-0002
Heat shield: 480277-0002
Repair kit: 732252-0001
Turbine housing: 479470-0002
Compressor cover: 479633-0009
Actuator: 480030-0005
Turbine housing A/R: 0.53
Wastegate pressure setting: 0.900–0.950 / 1.150–1.210 bar
Wastegate rod setting: 0.38 / 4.00 mm
Exhaust manifold gasket: 210569 (stainless steel)
Turbine outlet gasket: 210570 (stainless steel)
Oil inlet gasket: 210351 (paper)
Oil outlet gasket: 210829 (paper)
Turbine inlet gasket (compressor housing): 709375-0001 (paper)
Turbine outlet gasket (compressor housing): 210262 (paper)
Manufacturer: Honeywell-Garrett

Applications

1997–2000 Nissan Safari and Nissan Patrol equipped with the RD28T engine

Préparation du turbo d'un Jeep Grand Cherokee – GLB Gaillard le Bricoleur

BG Turbo prépare un turbo HYBRIDE STAGE 2 pour le JEEP de GLB. Pièces neuves, usinage, équilibrage, découvrez toutes les étapes de la préparation de ce beau turbo !

Plus d'info

ACTUALITÉ

BG TURBO - Production Roue Forgée MFS pour turbos hybrides préparés !

Nous faisons produire nos propres roues forgées qui nous permettent de préparer vos turbos.

Plus d'info

ACTUALITÉ

Consultez les avis Google de BG Turbo et laissez nous une note !

L'importance des Avis Google pour les Artisans Dans le monde numérique d'aujourd'hui, où la réputation en ligne joue un rôle crucial dans la croissance des entreprises, les avis Google sont devenus une pierre angulaire...

Plus d'info

ACTUALITÉ

Géométrie variable d' turbo (VNT) : fonctionnement et réglage sur banc Flow Bench

Découvrez comment

FAQ

Can BG Turbo hybrid-upgrade an original Nissan GT1752S turbocharger?
Yes, BG Turbo performs complete GT1752S hybrid upgrades including compressor housing machining and MFS Performance forged wheels.

What is the difference between Stage 1 and Stage 2?
Stage 1 retains the original wheel diameter for moderate gains, while Stage 2 uses a larger wheel and machined housing for greater performance improvements.

Is turbo hybridization suitable for off-road use?
Yes, configurations are designed to preserve low-end torque, drivability and reliability for 4x4 use.

HASHTAGS

#BGTurbo #NissanPatrol #NissanSafari #RD28T #GT1752S #HybridTurbo #TurboUpgrade #MFSPerformance #GarrettTurbo #TurboRestoration #TurboRepair #Diesel4x4

Leave a review for our BG Turbo workshop if you were satisfied.
https://g.page/r/CcAIkUyx_KqqEB0/review

DOWNLOAD THE TECHNICAL NEWS

grâce à son banc Flow Bench. Explications, démonstration et vidéo exclusive !

Plus d'info

ACTUALITÉ

Les Restaurations de Turbocompresseurs pour Motos Légendaires

Les motos équipées de turbocompresseurs incarnent une époque audacieuse de l'ingénierie et du design. Chez BG Turbo, nous nous spécialisons dans la restauration et la remise en état de ces joyaux mécaniques pour leur rendre leur puissance et leur fiabilité d'origine.

Plus d'info

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

marques pour des véhicules particuliers, véhicules de compétition, turbos marins, turbos poids lourds, turbos agricoles

Formulaire préparation turbo

Recherche par immatriculation