



Differential Light Transmission Housing Differential Housing Assembly

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Dongfeng
- Certification: IATF 16949:2016
- Minimum Order Quantity: 100 piece
- Packaging Details: Wooden box packaging
- Payment Terms: T/T
- Supply Ability: Annual production of 50000 pieces



Product Specification

- Type: Mechanical
- Function: Transfers Power From Engine To Wheels
- Part Number: 41110-3D590
- Installation Instructions: Included
- Bolt Pattern: 8 Bolts
- Mounting Style: Flange
- Fitment: Front
- Ratio: 4.10
- Material: Steel
- Shaft Diameter: 50 Mm
- Application: Automobile Gearbox
- Weight: 10kg
- Operating Temperature: -40°C To 120°C
- Torque Capacity: 1000 Nm
- Highlight: **differential housing assembly, diff assembly,**

Product Description

Introduction to Automotive Transmission Differential

The differential of the automobile gearbox is a core component in the automobile transmission system, which plays a crucial role in ensuring smooth driving of the vehicle. The differential mainly solves the balance relationship between the left and right wheels and the planetary gear frame when the car is turning or driving on uneven roads, ensuring the balance between the driving wheels on both sides and the planetary gear frame, and adjusting the speed difference between the left and right wheels to compensate for the speed difference and ensure the pure rolling state of the left and right wheels.

operational principle

The working principle of the differential is based on the differential principle. When the vehicle is traveling straight, the rotational speeds of the left and right wheels and the planetary gear frame are equal and in a balanced state, equivalent to a rigid connection; When the car turns or drives on uneven roads, the balance of the three is disrupted, resulting in a decrease in the inner wheel speed and an increase in the outer wheel speed, forming a differential. This differential can automatically adjust the speed difference between the left and right wheels, ensuring the stability and comfort of car driving.

Functional characteristics

The differential not only has powerful functions, but also has the following characteristics:

Efficiency: The differential design is precise, with high transmission efficiency, which can minimize energy loss to the maximum extent.

Stability: In complex road conditions, the differential can automatically adjust to ensure stable driving and prevent sideslip and loss of control.

Durability: Made with high-quality materials and advanced technology, it has excellent wear resistance and impact resistance, ensuring long-term stable operation.

Application scenarios

Whether it is a family sedan, off-road vehicle, or commercial vehicle, the differential is an indispensable component. Especially under extreme driving conditions such as off-road and racing, the performance of the differential directly affects the vehicle's performance.

In short, the differential of a car transmission is a key component in the car transmission system. It automatically adjusts the speed difference between the left and right wheels to ensure that the vehicle can drive stably and safely in various road conditions.



Dongfeng (Shiyan) Torsional Damper Company Limited



gjh.8266@163.com



dongfengtorsionaldamper.com

10th Floor, Building B, Donghe Center, Dongfeng 3rd Road, Wuhan Economic and Technological Development Zone, China