

TAMIYA 15307-000

Tamiya 15307 Mini 4WD Ultra-Dash Motor Instruction Manual

Model: 15307-000 | Brand: TAMIYA

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Tamiya 15307 Mini 4WD Ultra-Dash Motor. Please read these instructions thoroughly before use to ensure optimal performance and safety.

The Tamiya Ultra-Dash Motor is designed as a high-performance upgrade for Mini 4WD vehicles, featuring a durable carbon brush for enhanced longevity and power.

2. PRODUCT OVERVIEW

The Tamiya 15307 Ultra-Dash Motor is a specialized component for Mini 4WD models, offering significant performance enhancements. Key features include:

- High-performance motor with a durable carbon brush.
- Designed to provide outstanding top speed and sharp acceleration, even on tracks with continuous corners and steep climbs.
- Enhanced durability due to the carbon brush design.
- Suitable Voltage: 2.4 - 3.0 V.
- Rotations: 24000 - 27500 r/min (at recommended torque load).
- Current Consumption: 4.0 - 5.0 A (at recommended torque load).

Note: This motor cannot be used in official Tamiya licensed races.

3. SETUP AND INSTALLATION

Proper installation is crucial for the motor's performance and longevity. Always refer to your specific Mini 4WD car's instruction manual for detailed assembly steps before installing this motor.

1. **Preparation:** Ensure your Mini 4WD chassis is clean and free of debris.
2. **Pinion Gear:** It is highly recommended to use separately sold reinforced pinion gears with this high-

performance motor to prevent damage and ensure efficient power transfer.

3. **Greasing:** Before installation, always apply a suitable amount of grease to the gears and shaft bearings of your Mini 4WD vehicle. This reduces friction and wear.
4. **Motor Insertion:** Carefully insert the Ultra-Dash Motor into the designated motor housing of your Mini 4WD chassis, ensuring it seats correctly and makes proper electrical contact.
5. **Battery Selection:** For optimal performance, use Tamiya rechargeable batteries. Alkaline batteries may not provide peak performance with this motor.



Figure 1: Original instruction sheet for the Tamiya Ultra-Dash Motor, detailing specifications and safety warnings.

4. OPERATING INSTRUCTIONS

Follow these guidelines for safe and effective operation of your Mini 4WD with the Ultra-Dash Motor:

- **Battery Usage:** Always use Tamiya rechargeable batteries for best performance. Ensure batteries are fully charged before operation.
- **Avoid Obstruction:** Do not hinder the rotation of the wheels by force while the motor is running. This can cause damage to the motor and gears.
- **Heat Management:** The motor can become very hot during operation. Excessive motor heat can deform the chassis. Do not touch the motor directly after use to avoid burns. Allow it to cool down.
- **Battery Removal:** Always remove batteries from the Mini 4WD vehicle after use to prevent accidental activation or battery drain.
- **Track Compatibility:** This motor is not permitted for use in official Tamiya licensed races.

5. MAINTENANCE

Regular maintenance helps prolong the life and performance of your Ultra-Dash Motor and Mini 4WD vehicle:

- **Grease Application:** Periodically reapply grease to the gears and shaft bearings to ensure smooth

operation and minimize wear.

- **Cleaning:** Keep the motor and surrounding chassis area clean from dust, dirt, and debris. Use a soft brush or compressed air for cleaning.
- **Inspection:** Regularly inspect the motor and pinion gear for any signs of wear or damage. Replace worn parts as necessary.

6. SAFETY PRECAUTIONS

Adhere to the following safety precautions to prevent injury or damage:

- **Heat Warning:** The motor generates significant heat during operation. Excessive motor heat can deform the chassis. Avoid prolonged continuous use without cooling periods. Do not touch the motor directly after operation.
- **Child Safety:** Keep all parts, especially small components and packaging materials, out of reach of small children. There is a risk of accidental ingestion.
- **Assembly:** Exercise caution during assembly, particularly with metal parts, as they may have sharp edges.
- **Proper Use:** Improper use or installation can lead to motor damage or chassis deformation. Always follow instructions.

7. SPECIFICATIONS

Feature	Specification
Model Number	15307-000
Brand	TAMIYA
Proper Voltage	2.4 - 3.0 V
Recommended Torque Load	1.4 - 1.9 mN·m
Rotations (at recommended torque load)	24000 - 27500 r/min
Current Consumption (at recommended torque load)	4.0 - 5.0 A
Material	Plastic
Product Dimensions	1.57 x 1.18 x 1.18 inches (approximate motor size)
Item Weight	0.02 Kilograms (0.704 ounces)

ultra dash motor



- 適正電圧 Proper Voltage 2.4-3.0V
 - 推奨負荷トルク Recommended Torque Load 1.4-1.9mN·m
 - 回転数 RPM* 24000-27500r/min ●消費電流 Current Consumption* 4.0-5.0A
- * 推奨負荷トルク時の値 Values at Recommended Torque Load

●アルカリ乾電池では高性能を発揮できません。タミヤ製の充電池を使用してください。●ハイパワーに対応した強化ピニオンギヤ各種を使用してください。★使い方が悪いとモーターの熱でシャーシが変形することがあります。次の注意をしっかりと守ってください。●軸受けやギヤには必ずグリスをぬってください。●回転中のタイヤを手で無理に止めないでください。●走行後はモーターが熱くなるのでさわらないでください。●走らせない時は必ず電池をはずしましょう。●ご使用前にミニ四駆の取り扱い説明を必ずお読みください。

●Alkaline batteries do not provide peak performance. Use Tamiya rechargeable batteries. ●Use separately sold reinforced pinion gears. ★Improper use may cause excessive motor heat which may deform chassis. Always observe the following conditions. ●Always apply grease to gears and shaft bearings/eyelets. ●Do not hinder rotation of the wheels by force. ●Do not touch motor directly after operation as it gets very hot. ●Always remove batteries after use. ●Make sure to read Mini 4WD car instructions prior to use.

★ミニ四駆公認競技会では使用できません。

《使用可能マシン/USABLE WITH》

- ミニ四駆各車 ●MINI 4WD CARS



▲注意 CAUTION

- 小さなお子様のいる場所での工作はしないでください。部品等を口に入れる危険があります。
- 金属部品には鋭い部分があります。ケガをしないように注意して取りつけてください。
- Keep out of reach of small children. Children may accidentally ingest parts or packaging material. ●When assembling, care should be taken with the metal parts as they have sharp edges.



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Figure 2: Tamiya 15307 Ultra-Dash Motor packaging, indicating approximate dimensions.

8. TROUBLESHOOTING

If you encounter issues with your Ultra-Dash Motor, consider the following common troubleshooting steps:

- **Motor Not Running:** Check battery charge and ensure they are correctly inserted. Verify all electrical

contacts are clean and secure.

- **Reduced Performance:** Ensure gears and bearings are properly greased. Check for any obstructions hindering wheel rotation. Verify the motor is securely installed and not loose.
- **Excessive Heat:** This motor is high-performance and generates heat. If heat is excessive and causing chassis deformation, reduce continuous run time or ensure proper ventilation. Confirm correct pinion gear usage.
- **Unusual Noise:** Inspect gears for damage or misalignment. Ensure no foreign objects are caught in the drivetrain.

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Tamiya 15307 Mini 4WD Ultra-Dash Motor, please contact Tamiya customer service directly. Refer to the official Tamiya website or product packaging for the most current contact details.

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