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Wadoy 6878, 6893X

Wadoy 6878 Complete Slipper Clutch with 6893X Aluminum Bearing Adapter Instruction Manual

For Traxxas 1/10 4x4 Vehicles: Telluride, Rally, Slash 4x4, and Stampede 4x4

1. PRODUCT OVERVIEW

This manual provides instructions for the Wadoy 6878 Complete Slipper Clutch assembly, which includes a pre-installed 54-tooth, 32-pitch spur gear, and the 6893X Aluminum Bearing Adapter. This assembly is designed to enhance the performance and durability of compatible remote-controlled vehicles.

The slipper clutch system is a critical component in RC vehicles, protecting the drivetrain from damage during sudden impacts or acceleration by allowing a controlled amount of slip. The included aluminum bearing adapter improves heat resistance and overall durability compared to standard composite adapters.



Image 1.1: The Wadoy 6878 Complete Slipper Clutch assembly, featuring the spur gear and aluminum bearing adapter.

2. COMPATIBILITY

The Wadoy 6878 Complete Slipper Clutch with 6893X Aluminum Bearing Adapter is compatible with the following Traxxas 1/10 4x4 vehicles:

- 1/10 Rally
- Slash 4x4 (low-CG)
- Slash 4x4 (standard chassis)
- Slash 4x4 Platinum
- Slash 4x4 Ultimate
- Stampede 4x4 VXL
- Stampede 4x4 XL-5
- Telluride

This product is designed to be compatible with Traxxas stock and hop-up replacement parts. It is not an original Traxxas part but is manufactured by Wadoy to fit the specified models.



FITS:

1/10 Rally
Slash 4x4 (low-CG)
Slash 4x4 (standard chassis)
Slash 4x4 Platinum
Slash 4x4 Ultimate
Stampede 4x4 VXL
Stampede 4x4 XL-5
Telluride



Image 2.1: Visual representation of compatible Traxxas 1/10 4x4 vehicles.

3. KEY FEATURES

- **Pre-assembled Slipper Clutch:** The 6878 unit comes fully assembled with a 54-tooth, 32-pitch spur gear, allowing for quick and easy installation.
- **Aluminum Bearing Adapter (6893X):** Upgrades the stock composite bearing adapter to 6160-T6 Aluminum, significantly improving heat resistance and overall durability for high-power applications.
- **Optimized Gear Ratio:** Features a 54-tooth, 32-pitch spur gear, suitable for various driving conditions and motor setups.
- **Durable Construction:** Components are designed for longevity and reliable performance in demanding RC environments.

Details:



Image 3.1: Detailed view of the 54-tooth, 32-pitch spur gear.



Image 3.2: Specifications for the steel 10x15x4mm ball bearing with rubber seal.

4. SETUP AND INSTALLATION

The Wadoy 6878 Slipper Clutch assembly is designed for direct replacement and ease of installation. It comes pre-assembled, allowing it to be dropped directly into your compatible Traxxas 1/10 4x4 vehicle.

4.1 Required Tools (Not Included)

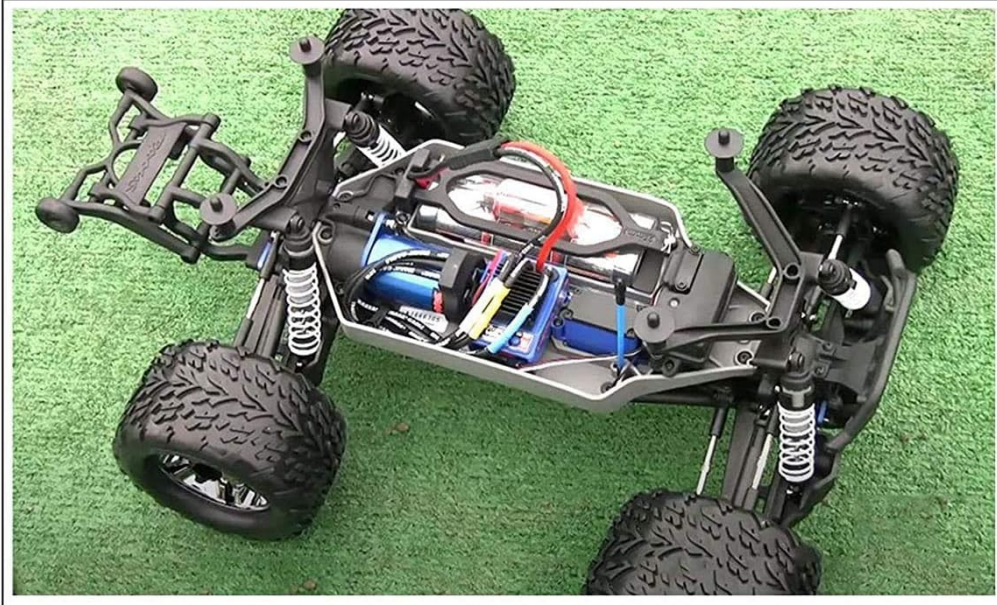
- Hex wrenches (sizes may vary depending on your vehicle's fasteners)
- Nut drivers (for wheel nuts, etc.)
- Small Phillips head screwdriver

4.2 Installation Steps

1. **Vehicle Disassembly:** Carefully remove the necessary components of your RC vehicle to access the existing slipper clutch assembly. This typically involves removing the motor, transmission cover, and potentially the center driveshaft. Refer to your vehicle's original instruction manual for specific disassembly procedures.
2. **Remove Old Slipper Clutch:** Once accessible, remove the old slipper clutch assembly from the

vehicle's transmission.

3. **Install New Slipper Clutch:** Insert the Wadoy 6878 Complete Slipper Clutch assembly into the transmission. Ensure all components align correctly. The pre-assembled nature simplifies this step.
4. **Reassembly:** Reinstall all removed components in reverse order. Ensure all screws are tightened securely, but do not overtighten.
5. **Initial Slipper Adjustment:** Before operating, perform an initial slipper clutch adjustment as described in Section 5.1.



ESY TO USE



Image 4.1: The slipper clutch assembly shown in context with an RC vehicle chassis, illustrating the installation area.

5. OPERATION AND ADJUSTMENT

The slipper clutch is designed to protect your vehicle's drivetrain by allowing a controlled amount of slip when the motor's power exceeds the traction available to the wheels or during hard landings. Proper adjustment is crucial for optimal performance and drivetrain longevity.

5.1 Slipper Clutch Adjustment

The slipper clutch tension is typically adjusted via a nut on the slipper shaft. The goal is to set the slipper so it allows a slight amount of slip under heavy acceleration, preventing wheelies or drivetrain shock, but still transfers sufficient power.

1. **Initial Setting:** Tighten the slipper clutch adjustment nut until it is snug, then back it off by approximately 1/4 to 1/2 turn. This is a common starting point.
2. **Testing:** Place your vehicle on a high-traction surface. Hold the vehicle firmly and apply full throttle. The front wheels should lift slightly, and you should hear a brief, controlled slipping sound from the clutch.
3. **Fine-tuning:**
 - If the wheels lift too high or the clutch slips excessively without forward motion, tighten the nut in small increments (e.g., 1/8 turn).
 - If the wheels do not lift at all, or the vehicle wheelies violently, the clutch is too tight. Loosen the nut in small increments.
4. **Optimal Setting:** The ideal setting allows for a smooth, controlled launch with minimal wheelies, and protects the drivetrain during impacts.

Note: Over-tightening the slipper clutch can lead to premature wear on drivetrain components, while an overly loose slipper will result in poor acceleration and excessive heat.

6. MAINTENANCE

Regular maintenance of your slipper clutch assembly will ensure its longevity and consistent performance.

- **Inspection:** Periodically inspect the spur gear for worn, chipped, or missing teeth. Check the slipper pads for wear and ensure they are clean.
- **Cleaning:** Remove any dirt, dust, or debris that may accumulate around the slipper clutch and spur gear. A soft brush and compressed air can be used.
- **Bearing Check:** Inspect the bearings for smooth operation. If they feel gritty or have excessive play, they may need cleaning or replacement. The 10x15x4mm steel ball bearing with rubber seal (as shown in Image 3.2) is a key component.
- **Slipper Adjustment Check:** Re-check your slipper clutch adjustment periodically, especially after heavy use or if you notice changes in vehicle performance.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Excessive Slipper Clutch Slipping	Slipper clutch too loose; Worn slipper pads; Oil/grease on slipper pads.	Tighten slipper adjustment nut (see Section 5.1); Replace slipper pads; Clean slipper pads and pressure plates with motor cleaner.
Vehicle Wheelies Excessively / Drivetrain Damage	Slipper clutch too tight.	Loosen slipper adjustment nut (see Section 5.1).
Spur Gear Damage (Chipped/Broken Teeth)	Slipper clutch too tight; Debris caught in gears; Improper gear mesh; Manufacturing defect.	Adjust slipper clutch; Inspect and clean gear area; Verify motor-to-spur gear mesh; Replace spur gear.

Problem	Possible Cause	Solution
Grinding Noise from Drivetrain	Debris in gears; Worn bearings; Improper gear mesh.	Clean gears; Inspect and replace bearings if necessary; Adjust gear mesh.
Product Does Not Fit Vehicle	Incorrect vehicle model; Component interference.	Verify vehicle compatibility (see Section 2); Inspect for any obstructions or misalignments during installation.

8. SPECIFICATIONS

Feature	Detail
Brand	Wadoy
Model Numbers	6878 (Slipper Clutch), 6893X (Aluminum Bearing Adapter)
Material	Aluminum (Adapter), Steel (Bearing), Composite (Spur Gear)
Spur Gear	54-Tooth, 32-Pitch
Bearing Type	Ball Bearing (Steel 10x15x4mm with rubber seal)
Item Dimensions (L x W x H)	5.75 x 1.73 x 3.42 inches (Product as packaged)
Item Weight	2.11 ounces
Manufacturer	Wadoy

9. WARRANTY AND SUPPORT

For any questions regarding the installation, operation, or troubleshooting of your Wadoy 6878 Complete Slipper Clutch with 6893X Aluminum Bearing Adapter, please contact Wadoy customer support through the retailer where the product was purchased.

Please note that this product is a non-original part manufactured by Wadoy and is designed to be compatible with Traxxas vehicles. It is not manufactured by Traxxas.