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RASTP RS-QR001

RASTP Universal Steering Wheel Quick Release Boss Kit

Model: RS-QR001 - Instruction Manual

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your RASTP Universal Steering Wheel Quick Release Boss Kit, Model RS-QR001. This kit is designed to allow for quick detachment of your steering wheel, enhancing security and ease of access in racing or custom vehicle applications. It features a robust ball-lock type mechanism and a push-pin security feature for reliable performance.



Image 1.1: Overview of RASTP Universal Steering Wheel Quick Release Boss Kits in different finishes.

2. Safety Information

- **Professional Installation Recommended:** Due to the critical nature of steering components, professional installation by a qualified mechanic is highly recommended to ensure proper function and safety.
- **Vehicle Compatibility:** This is a universal fit product. Ensure compatibility with your specific vehicle's steering column and existing hub adapter before installation.
- **Secure Fasteners:** Always ensure all bolts and fasteners are tightened to the manufacturer's specifications. Regularly check for any looseness.
- **Pre-Drive Check:** Before operating the vehicle, always verify that the quick release mechanism is fully engaged and the steering wheel is securely attached.
- **No Modifications:** Do not modify the quick release kit or its components. Unauthorized modifications can compromise safety and performance.

3. Package Contents

Please inspect the package contents upon receipt to ensure all components are present and undamaged. The standard package includes:

- 1x Quick Release Boss Kit (consisting of two main interlocking parts)
- Necessary mounting hardware (bolts, washers, etc.)



Image 3.1: The two primary components of the quick release kit: the steering wheel side (left) and the hub adapter side (right).

4. Setup and Installation

This quick release kit is designed for universal fitment with most vehicles and is compatible with 6-hole steering wheel hub kits. Professional installation is strongly recommended.

1. **Prepare Vehicle:** Ensure the vehicle's battery is disconnected. Remove the existing steering wheel and hub adapter according to your vehicle's service manual.
2. **Install Hub Adapter:** If not already present, install a compatible 6-hole steering wheel hub adapter onto the vehicle's steering column spline. Ensure it is securely fastened.
3. **Attach Quick Release Base:** Mount the base component of the quick release kit (the part with the spline receiver) onto the 6-hole hub adapter using the provided hardware. Tighten all bolts evenly and securely.
4. **Attach Steering Wheel Side:** Mount the other component of the quick release kit (the part that connects to the steering wheel) to your aftermarket 6-hole steering wheel using the provided hardware. Ensure proper alignment and secure fastening.
5. **Connect Components:** Align the steering wheel side of the quick release with the base component on the hub adapter. Push the steering wheel firmly onto the base until the ball-lock mechanism engages and you hear a click.
6. **Verify Security:** Pull on the steering wheel to ensure it is fully locked into place and cannot be easily removed without engaging the release mechanism. The push-pin security feature should be engaged.



Image 4.1: Illustration of the quick release mechanism separating the steering wheel side from the hub adapter side.

5. Operating Instructions

The RASTP Quick Release Boss Kit is designed for fast and secure detachment and reattachment of your steering wheel.

- **To Detach the Steering Wheel:**
  a. Locate the push-pin security button, typically on the side of the quick release unit.
  b. Press and hold the push-pin button.
  c. Simultaneously, pull the main quick release collar towards you (away from the dashboard).
  d. Once the collar is pulled, the steering wheel can be easily removed from the hub adapter.
- **To Reattach the Steering Wheel:**
  a. Align the splines of the steering wheel side of the quick release with the splines on the base component attached to the hub adapter.
  b. Push the steering wheel firmly onto the base. You should hear a distinct 'click' as the ball-lock mechanism engages.
  c. Verify that the push-pin security feature has returned to its original position, indicating a secure lock.
  d. Gently pull on the steering wheel to confirm it is fully seated and locked before driving.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your quick release kit.

- **Cleaning:** Keep the quick release mechanism clean and free from dirt, dust, and debris. Use a soft, dry cloth for cleaning. Avoid harsh chemicals that may damage the finish or internal components.
- **Inspection:** Periodically inspect the quick release kit for any signs of wear, damage, or corrosion. Check for any looseness in the mounting bolts.
- **Lubrication:** If the mechanism feels stiff, a small amount of dry lubricant (e.g., PTFE spray) can be applied to the moving parts, avoiding excessive application that could attract dirt.

7. Troubleshooting

- **Steering Wheel Does Not Lock Securely:**
  - Ensure the splines are perfectly aligned before pushing the wheel on.
  - Check for any obstructions (dirt, debris) within the locking mechanism.
  - Verify that the quick release base is securely mounted to the hub adapter and the steering wheel side is securely mounted to the steering wheel.
- **Difficulty Detaching Steering Wheel:**
  - Ensure the push-pin security button is fully depressed while pulling the collar.
  - Check for any binding or corrosion in the mechanism. A light application of dry lubricant may help.
- **Excessive Play/Wobble in Steering Wheel:**
  - Immediately stop using the product.
  - Re-check all mounting bolts for tightness on both the quick release and the hub adapter.

- Inspect the quick release mechanism for any signs of damage or excessive wear. If damage is found, replace the unit immediately.

8. Specifications

Feature	Detail
Model Number	RS-QR001
Brand	RASTP
Material	High Quality Aircraft Grade Aluminum
Fit Type	Universal Fit
Compatibility	6-hole steering wheel hub kits
Mechanism	Ball-Lock type with Push-Pin Security
UPC	661066987140
Overall Height	68mm (approx. 2.68 inches)
Base Diameter	84mm (approx. 3.31 inches)
Top Diameter	49mm (approx. 1.93 inches)



Image 8.1: Dimensional drawing of the RASTP Quick Release Boss Kit.

9. Warranty Information

RASTP products are manufactured to high-quality standards. This product is covered by a limited manufacturer's warranty against defects in materials and workmanship. The duration and terms of the warranty may vary. Please retain your proof of purchase for any warranty claims. For specific warranty details, please contact RASTP customer support.

10. Customer Support

If you have any questions regarding the installation, operation, or maintenance of your RASTP Universal Steering Wheel Quick Release Boss Kit, please contact our customer support team. We are committed to providing assistance and ensuring your satisfaction.

Please refer to the RASTP official website or your purchase documentation for the most current contact information.

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