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Tema4x4 HYU-15-001 + HYU-15-002/30

Tema4x4 Complete Lift Kit 30mm User Manual

Model: HYU-15-001 + HYU-15-002/30

1. INTRODUCTION

This user manual provides essential information for the installation, operation, and maintenance of the Tema4x4 Complete Lift Kit 30mm for Hyundai TUCSON (JM, BH) 2004-2009. This kit is designed to increase your vehicle's ground clearance by 30mm, enhancing its off-road capabilities, improving maneuverability in challenging conditions, and allowing for larger wheel and tire fitment. Please read this manual thoroughly before proceeding with installation to ensure proper and safe use of the product.

2. PRODUCT OVERVIEW

The Tema4x4 Complete Lift Kit consists of durable polyurethane (PU) strut spacers designed to be installed on your vehicle's suspension system. These spacers provide a reliable and cost-effective solution for increasing ground clearance.

2.1 Components Included

- 2x Front Strut Spacers
- 2x Rear Strut Spacers
- Fitting Kit (necessary bolts and hardware)



Figure 2.1: All components of the Tema4x4 Complete Lift Kit, showing the four polyurethane strut spacers (two for the front, two for the rear) and the accompanying fitting hardware (bolts).

2.2 Key Features

- Provides a 30mm increase in ground clearance.
- Manufactured from extra-durable Polyurethane (PU) for longevity.
- Enhances off-road capability and allows for easier navigation over obstacles.
- Improves vehicle aesthetics by allowing fitment of larger custom rims and tires.
- Helps prevent scraping on steep driveways and speed bumps.
- Assists in maintaining vehicle height when carrying heavy loads.

2.3 Compatibility

This complete lift kit is specifically compatible with:

- **Hyundai TUCSON (JM, BH)** models manufactured between **2004 - 2009**.

If you are unsure about compatibility with your specific vehicle model or year, please contact Tema4x4 customer support for assistance.

3. SETUP AND INSTALLATION

Installation of the Tema4x4 lift kit requires basic automotive maintenance skills and tools. While it is possible to install manually, professional installation by a qualified mechanic is highly recommended to ensure safety and proper alignment after installation.

3.1 General Installation Steps (Overview)

1. **Vehicle Preparation:** Park the vehicle on a level, stable surface. Engage the parking brake and block the wheels.

2. **Lift Vehicle:** Safely lift the vehicle using a hydraulic jack and secure it with jack stands. Ensure the vehicle is stable before proceeding.
3. **Wheel Removal:** Remove the wheels from the axle where the spacers will be installed (front or rear).
4. **Suspension Disassembly:** Carefully disassemble the relevant suspension components to access the strut assembly. This typically involves disconnecting sway bar links, brake lines (if necessary), and unbolting the strut from the lower control arm and upper mount.
5. **Strut Removal:** Remove the strut assembly from the vehicle.
6. **Spacer Installation:** Install the polyurethane strut spacer on top of the strut assembly, between the strut and the vehicle's chassis mount. Ensure correct orientation and use the provided fitting kit (longer bolts) as necessary.
7. **Strut Reinstallation:** Reinstall the strut assembly with the spacer back into the vehicle, securing all bolts to manufacturer specifications.
8. **Reassemble Components:** Reconnect all previously disconnected suspension components, brake lines, and sway bar links.
9. **Wheel Reinstallation:** Reinstall the wheels and lower the vehicle safely.
10. **Repeat for Other Side:** Repeat the process for the other side of the vehicle (front or rear).
11. **Post-Installation Checks:** After installation, it is crucial to perform a wheel alignment. Failure to do so can lead to uneven tire wear and compromised handling. Check all bolts for proper torque after a short drive.



Figure 3.1: Front strut spacers and associated bolts, designed for installation between the strut and the vehicle's chassis.



Figure 3.2: Rear strut spacers and associated bolts, used to lift the rear suspension.

Important: Always refer to your vehicle's specific service manual for detailed instructions on suspension component removal and reinstallation. Safety precautions, such as wearing appropriate personal protective equipment (PPE) and using proper lifting equipment, must be strictly followed.

4. OPERATING CONSIDERATIONS

After installing the lift kit, your vehicle's driving dynamics will change. It is important to be aware of these changes for safe operation.

- **Center of Gravity:** The vehicle's center of gravity will be raised, which may affect handling characteristics, especially during cornering or sudden maneuvers. Drive cautiously until you are accustomed to the new feel of the vehicle.
- **Suspension Travel:** While ground clearance is increased, the overall suspension travel remains largely the same. Be mindful of this when driving over very rough terrain.
- **Tire Clearance:** The lift kit provides additional clearance for larger tires. Ensure that any new tires or wheels installed do not rub against the fender wells or suspension components during full steering lock or suspension compression.
- **Alignment:** As mentioned in the installation section, a professional wheel alignment is critical after installing the lift kit to correct camber, caster, and toe angles. This prevents premature tire wear and ensures stable handling.

5. MAINTENANCE

The Tema4x4 polyurethane strut spacers are designed for durability and require minimal maintenance. However, periodic checks are recommended to ensure continued safe operation.

- **Bolt Torque Check:** After the initial installation and a few hundred miles of driving, re-check the torque on all bolts associated with the strut spacers and suspension components. This ensures that everything remains securely fastened.
- **Visual Inspection:** Periodically inspect the strut spacers for any signs of wear, cracking, or damage. While

polyurethane is highly durable, extreme conditions can affect any component.

- **Suspension Component Check:** During routine vehicle maintenance, inspect other suspension components (shocks, struts, bushings, ball joints) for wear, as increased ground clearance can sometimes alter stress points.
- **Cleaning:** Keep the spacers free from excessive dirt and debris, especially if frequently driving in off-road conditions.

6. TROUBLESHOOTING

If you encounter issues after installing the lift kit, consider the following common troubleshooting steps:

- **Uneven Ride Height:**
 - Ensure the correct spacers were installed on the correct side (front vs. rear).
 - Verify all components are seated properly and bolts are torqued evenly.
- **New Noises (Clunking, Squeaking):**
 - Re-check all bolts and nuts for proper torque. Loose fasteners are a common cause of noise.
 - Inspect for any components rubbing against each other (e.g., brake lines, ABS wires, tires against fender wells).
 - Ensure no tools or debris were left in the suspension area.
- **Poor Handling or Steering Issues:**
 - This is almost always due to incorrect wheel alignment. Immediately get a professional alignment.
 - Check tire pressure.
- **Vibrations:**
 - Ensure wheels are balanced and properly torqued.
 - While rare with mild lifts, check drive shaft angles if vibrations persist, though this is typically more relevant for larger lifts.

If problems persist after troubleshooting, it is recommended to consult with a professional automotive technician or contact Tema4x4 customer support.

7. SPECIFICATIONS

Attribute	Detail
Brand	Tema4x4
Auto Part Position	Front and Rear
Material	Polyurethane (PU)
Included Components	2x Front Strut Spacers, 2x Rear Strut Spacers, Fitting Kit
Manufacturer	Tema4x4
UPC	661094045553
Item Weight	4.36 pounds

Attribute	Detail
Manufacturer Part Number	HYU-15-001 + HYU-15-002/30
ASIN	B085LGGZVC
Date First Available	March 6, 2020
Lift Height	30mm

8. WARRANTY INFORMATION

Specific warranty details for the Tema4x4 Complete Lift Kit are not provided in this manual. For information regarding product warranty, including terms, conditions, and claim procedures, please refer to the official Tema4x4 website or contact their customer support directly. It is recommended to retain your proof of purchase for any warranty claims.

9. CUSTOMER SUPPORT

For any questions, technical assistance, or concerns regarding the Tema4x4 Complete Lift Kit, please contact Tema4x4 customer support. They can provide guidance on compatibility, installation, and troubleshooting.

Visit the official Tema4x4 store on Amazon: [Tema4x4 Store](#)

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This manual is for informational purposes only. Always prioritize safety and consult with professionals when performing vehicle modifications.