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› **TECHPICCO Hood Struts for Ford Ranger 2024+ Instruction Manual**

TECHPICCO YQCG-Ranger 24+-BK

TECHPICCO Hood Struts Instruction Manual

Model: YQCG-Ranger 24+-BK

For Ford Ranger 2024+ Models

1. PRODUCT OVERVIEW

The TECHPICCO Hood Struts are designed to replace the factory prop rod on Ford Ranger 2024 and newer models. These gas springs provide automatic hood lifting and support, enhancing convenience and providing a clear view into the engine area without manual propping. They are engineered for a precise fit and durable performance.



Image 1.1: Overview of TECHPICCO Hood Struts and compatible Ford Ranger.

2. KEY FEATURES

- **Customized Design:** Specifically engineered for Ford Ranger 2024 and 2025 models, ensuring a perfect fit and seamless integration.
- **No-Drill Installation:** Features a fully bolt-on design that utilizes existing factory attachment points, eliminating the need for drilling and preserving the vehicle's integrity.
- **Enhanced Convenience:** Replaces the traditional prop rod, allowing the hood to lift and stay open automatically, providing easier access to the engine bay.
- **Premium Material Construction:** Manufactured from durable 3mm carbon steel with a 2-stage satin textured black powder coat finish, offering resistance to scratches, rust, and rugged use.
- **Upgraded Cylinder:** Features a robust cylinder design with nitrogen injection for rust protection and a smooth, consistent damping range.



Image 2.1: Customized fit for Ford Ranger.

The image is a comparison graphic divided into two main sections: 'Before' and 'After', separated by a large blue 'VS' graphic in the center. The 'Before' section shows a car's hood supported by a thin red rod, with flames at the base of the rod and a warning icon of a hand being burned. The 'After' section shows a car's hood supported by a thick black hydraulic strut, with a blue glow around the rod.

Before

- ✘ Weaker,
- ✘ Cheaper,
- ✘ Easy to get burned

VS

After

- ✔ More stable,
- ✔ More luxurious,
- ✔ Easy to open

Image 2.2: Comparison of hood support methods.

PERFECTLY CRAFTED STRUCTURE



Connectors

Molded ABS-plastic connectors improve durability.



Cylinder Body

Made of thickened and dense steel pipe, high pressure, high load bearing durable.



Piston Rod

QPQ treatment on the surface, low friction-during stretching and shrinking, no jamming.



Ball Mount Plate

The surface is painted to prevent scratches as well as rusting.

Image 2.3: Detailed view of strut components.

UPGRADED CYLINDER

Body*Sealling Treatment

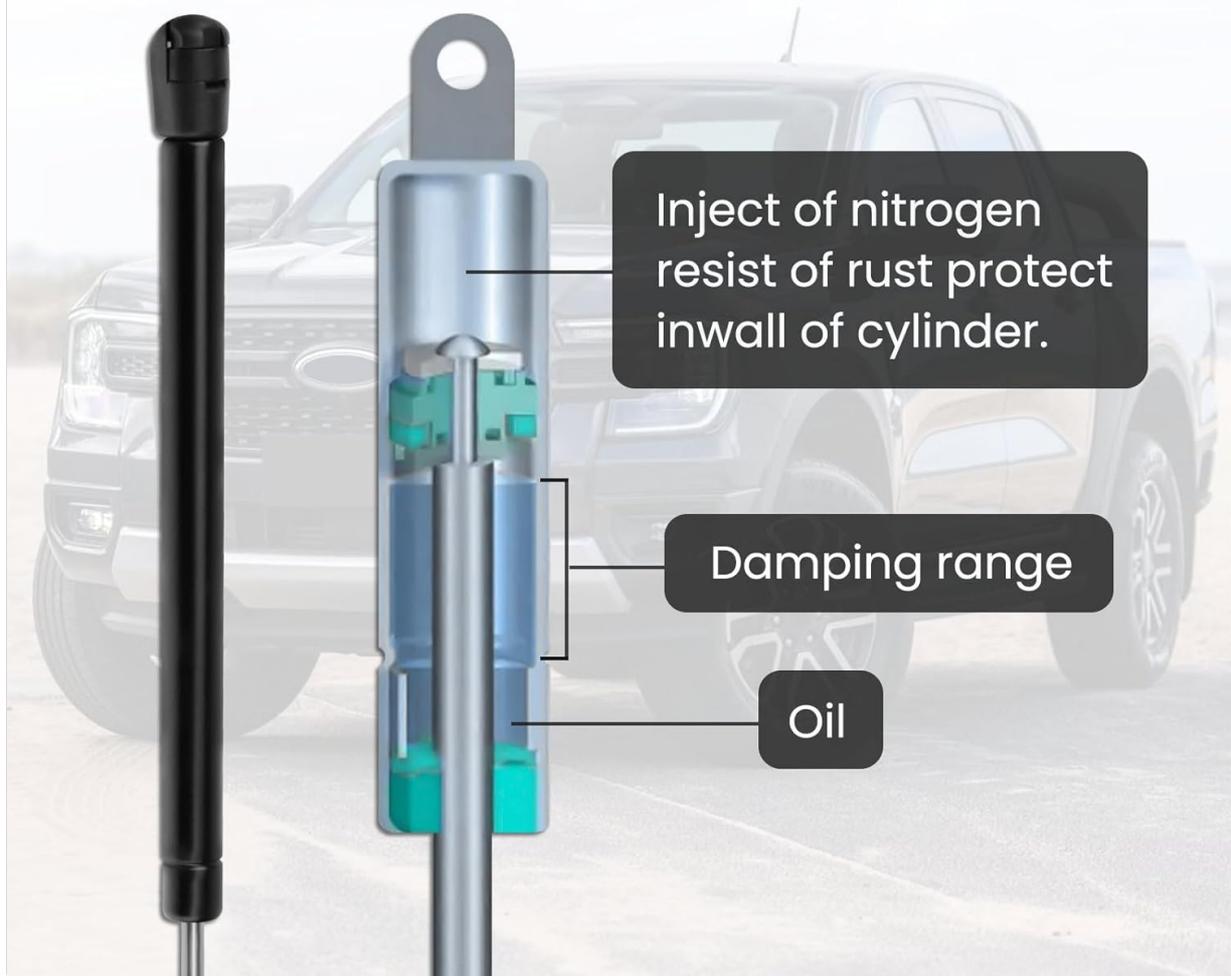


Image 2.4: Upgraded cylinder technology.

3. SETUP AND INSTALLATION

Installation of the TECHPICCO Hood Struts is designed to be straightforward and requires no drilling. The process typically takes 30 minutes or less.

Required Tools:

- Basic wrench set (sizes may vary, typically 10mm or 13mm for bolts)

Installation Steps:

1. **Prepare the Hood:** Open your vehicle's hood and secure it with the factory prop rod. Identify the rectangular holes on the underside of the hood, near the hinges, and the mounting points in the engine bay.
2. **Install Upper Ball Joint Bolt:** Locate the rectangular hole on the hood. Insert the blind-nut portion of the upper ball joint bolt into this hole. Align it vertically and push it into place. Ensure it is securely seated.
3. **Install Lower Mudguard Bracket:** Identify the existing bolt in the engine bay near the fender/mudguard area. Remove this bolt. Place the mudguard bracket over the hole, aligning it with the existing mounting point. Re-insert and tighten the original bolt to secure the bracket.
4. **Attach Gas Spring (Lower):** Take one gas spring. Insert the rod end (thinner part) of the gas spring onto

the ball joint bolt of the newly installed mudguard bracket (lower connection point). Push firmly until it clicks into place.

5. **Attach Gas Spring (Upper):** Carefully remove the factory prop rod. While supporting the hood, insert the body end (thicker part) of the gas spring onto the ball joint bolt installed on the underside of the hood (upper connection point). Push firmly until it clicks into place.
6. **Repeat for Other Side:** Follow steps 2-5 for the opposite side of the hood.
7. **Test Operation:** Gently lower and raise the hood to ensure both struts operate smoothly and hold the hood securely in the open position.

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Video 3.1: Installation guide for TECHPICCO Hood Struts on Ford Ranger 2024+.

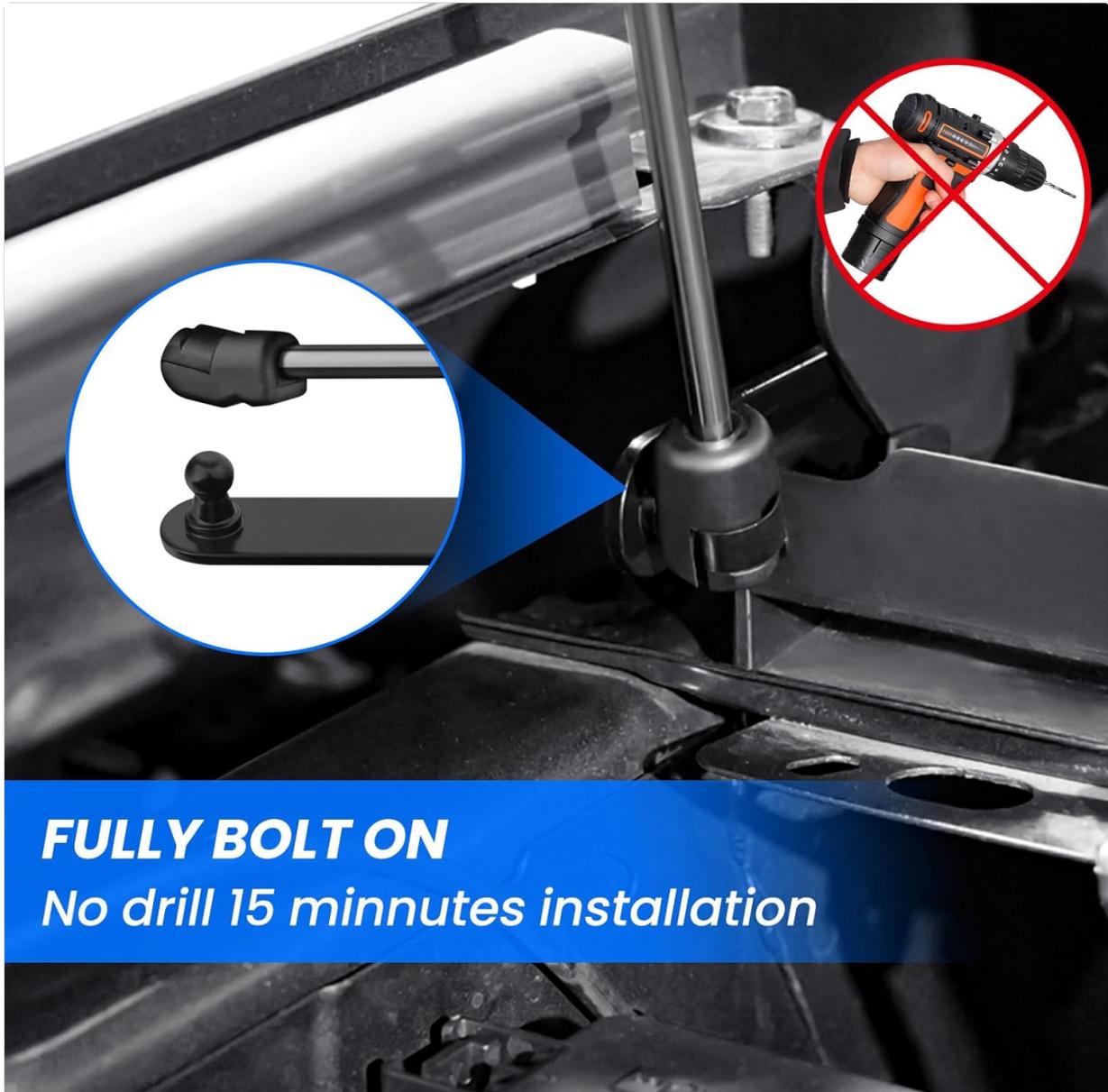


Image 3.1: No-drill installation points.



Image 3.2: Detailed view of installed struts.

4. OPERATING INSTRUCTIONS

Operating your new hood struts is simple and intuitive:

- **Opening the Hood:** Release the hood latch from inside your vehicle. The hood will then automatically lift and hold itself open, providing full access to the engine compartment.
- **Closing the Hood:** To close the hood, gently pull it downwards. The struts will provide a controlled descent. Once the hood is nearly closed, apply a firm, even pressure to fully latch it. Avoid slamming the hood.

5. MAINTENANCE

To ensure the longevity and optimal performance of your TECHPICCO Hood Struts, follow these simple maintenance guidelines:

- **Regular Cleaning:** Periodically wipe down the struts with a clean, damp cloth to remove dirt, dust, and grime. Avoid abrasive cleaners or solvents.

- **Inspect for Damage:** Routinely check the struts for any signs of wear, corrosion, or damage. Ensure the mounting points are secure and the ball joints are free of debris.
- **Lubrication:** The gas springs are sealed units and do not require internal lubrication. However, a small amount of silicone spray can be applied to the ball joint connections if any squeaking occurs.
- **Avoid Excessive Force:** Do not attempt to force the hood open or closed beyond its natural range of motion, as this can damage the struts.

6. TROUBLESHOOTING

If you encounter any issues with your hood struts, consider the following common troubleshooting steps:

- **Hood Not Lifting Fully:** Ensure both struts are properly installed and securely attached at all connection points. Check for any obstructions preventing full extension. In very cold weather, gas struts may operate slightly slower.
- **Hood Not Staying Up:** This indicates a loss of pressure in one or both gas springs. Inspect for visible damage or leaks. If a strut has failed, it will need to be replaced.
- **Squeaking or Noise:** Check the ball joint connections for cleanliness. A small amount of silicone spray on the ball joints can often resolve minor noises.
- **Difficulty Closing Hood:** Ensure no obstructions are present. The struts are designed for controlled closing; however, if it feels excessively stiff, verify correct installation and alignment.

If problems persist after attempting these steps, please refer to the Warranty and Support section for assistance.

7. SPECIFICATIONS

Attribute	Value
Manufacturer	TEHPICCO
Brand	TEHPICCO
Item Weight	1.35 pounds
Package Dimensions	18.2 x 3 x 1.3 inches
Manufacturer Part Number	YQCG-Ranger 24+-BK
Compatibility	Ford Ranger 2024, 2025+
Material	3mm Carbon Steel
Finish	2-stage Satin Textured Black Powder Coat

8. WARRANTY AND SUPPORT

TEHPICCO stands behind the quality of its products. Your Hood Struts are covered by a **360-Day Refund/Replacement Policy**.

If you experience any issues, require assistance with installation, or have questions regarding your product,

please contact TECHPICCO customer support. We are committed to providing a satisfactory solution.

For support, please visit the official TECHPICCO store on Amazon or use the contact information provided with your purchase.