

Dodge 011242 PH252

DODGE 011242 PH252 PARA-FLEX ELEMENT Instruction Manual

Model: 011242 PH252

1. INTRODUCTION AND PRODUCT OVERVIEW

This manual provides essential information for the safe and effective use of the DODGE 011242 PH252 PARA-FLEX ELEMENT. The Para-Flex element is a critical component in flexible couplings, designed to transmit torque while accommodating angular, parallel, and axial misalignment between connected shafts. It also provides excellent shock absorption and vibration dampening, protecting connected equipment from damaging forces.

Proper installation, operation, and maintenance are crucial for the longevity and optimal performance of this component and the entire drive system. Please read this manual thoroughly before installation or operation.

2. SAFETY INFORMATION

Always adhere to standard industrial safety practices when working with power transmission equipment. Failure to follow these safety instructions could result in serious injury or equipment damage.

- **Qualified Personnel:** Installation and maintenance should only be performed by qualified and trained personnel.
- **Lockout/Tagout:** Ensure all power sources are disconnected and locked out/tagged out before performing any installation, maintenance, or inspection procedures.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, gloves, and protective footwear.
- **Proper Tools:** Use only the correct tools for installation and removal.
- **Component Integrity:** Do not use damaged or altered components. Inspect the element for any signs of damage before installation.
- **Guarding:** Ensure all rotating parts are properly guarded after installation to prevent accidental contact.

3. SETUP AND INSTALLATION

The DODGE 011242 PH252 PARA-FLEX ELEMENT is designed for specific coupling assemblies. Refer to the

complete coupling installation manual for detailed instructions. The following are general guidelines for the element itself:

1. **Inspection:** Before installation, carefully inspect the Para-Flex element for any signs of damage, cracks, or deformities that may have occurred during shipping or storage.
2. **Cleaning:** Ensure that the mating surfaces of the coupling hubs and the element are clean and free from dirt, grease, or burrs.
3. **Alignment:** Proper shaft alignment is critical for optimal performance and longevity. While the Para-Flex element accommodates misalignment, excessive misalignment will lead to premature wear. Use precision alignment tools (e.g., laser alignment) to achieve the specified alignment tolerances for the coupling.
4. **Mounting:** Position the Para-Flex element between the coupling hubs according to the coupling assembly instructions. Ensure the element is seated correctly and all fasteners (if applicable) are tightened to the manufacturer's specified torque values.
5. **Clearance:** Verify that there is adequate axial and radial clearance around the element once installed, as specified by the coupling manufacturer.



Figure 3.1: The DODGE 011242 PH252 PARA-FLEX ELEMENT. This image shows the black, flexible rubber-like element, circular in shape with bolt holes around its perimeter, designed to connect two coupling hubs.

4. OPERATING INSTRUCTIONS

Once installed, the Para-Flex element operates as part of the flexible coupling system. No direct user interaction is required during operation.

- **Normal Operation:** The element will flex to accommodate dynamic misalignment and absorb shock loads during power transmission.
- **Monitoring:** Periodically monitor the coupling for unusual noise, vibration, or excessive heat, which may indicate an issue with the element or alignment.
- **Environmental Conditions:** Ensure the operating environment is within the specified temperature and chemical resistance limits for the Para-Flex element material.

5. MAINTENANCE

Regular inspection and maintenance are essential to ensure the long-term reliability and safety of the Para-Flex element and the entire coupling assembly.

- **Visual Inspection (Monthly/Quarterly):**
 - Check for cracks, tears, or signs of material degradation on the element surface.
 - Look for signs of excessive wear, such as rubber dust or debris around the coupling.
 - Verify that all fasteners are secure and show no signs of loosening.
- **Alignment Check (Annually or as needed):** Re-check shaft alignment periodically, especially if excessive vibration or noise is observed.
- **Cleaning:** Keep the coupling area clean and free of debris that could interfere with the element's flexibility or

cause premature wear.

- **Replacement:** Replace the Para-Flex element if any signs of significant wear, cracking, or damage are observed. The lifespan of the element depends on operating conditions, but proactive replacement based on a maintenance schedule can prevent unexpected failures.

6. TROUBLESHOOTING

This section outlines common issues and potential solutions related to the Para-Flex element. Always ensure power is locked out before attempting any troubleshooting or repairs.

Problem	Possible Cause	Solution
Excessive Vibration	Misalignment, Worn element, Unbalanced shafts	Check and correct shaft alignment. Inspect and replace element if worn. Balance rotating components if necessary.
Unusual Noise (e.g., Squealing, Thumping)	Element rubbing, Loose fasteners, Contamination	Inspect for rubbing points. Tighten all coupling fasteners to spec. Clean coupling area.
Premature Element Wear/Failure	Excessive misalignment, Overload, High temperature, Chemical exposure	Re-align shafts. Verify application load is within coupling limits. Check operating temperature. Ensure no incompatible chemicals are present.
Overheating of Coupling	Excessive misalignment, Overload, Insufficient ventilation	Correct alignment. Reduce load if possible. Improve ventilation around coupling.

7. SPECIFICATIONS

Key specifications for the DODGE 011242 PH252 PARA-FLEX ELEMENT are provided below. For detailed dimensional and performance specifications, refer to the official Dodge product catalog or technical data sheets.

- **Model Number:** 011242 PH252
- **Brand:** Dodge
- **ASIN:** B00BC8X9I4
- **Date First Available:** February 7, 2013
- **Type:** Flexible Coupling Element
- **Material:** Typically a high-grade elastomer (e.g., rubber or polyurethane compound) designed for flexibility and durability.
- **Function:** Accommodates angular, parallel, and axial misalignment; absorbs shock and dampens vibration.

8. WARRANTY AND SUPPORT

For specific warranty information regarding the DODGE 011242 PH252 PARA-FLEX ELEMENT, please refer to the original purchase documentation or contact Dodge directly. Warranty terms typically cover manufacturing defects under normal operating conditions.

For technical support, replacement parts, or further assistance, please contact your authorized Dodge distributor or visit the official Dodge website. When contacting support, please have your product model number (011242 PH252) and purchase details readily available.

Dodge Official Website: <https://www.regalrexnord.com/brands/dodge>

