

Exedy DH07D



EXEDY DH07D Single Disc Assembly Sprung Center Disc

Model: DH07D | Brand: Exedy

1. INTRODUCTION

This manual provides essential information for the proper handling, installation, and maintenance of your EXEDY DH07D Single Disc Assembly Sprung Center Disc. Adhering to these instructions will help ensure optimal performance and longevity of the product. Please read this manual thoroughly before attempting any installation or service.

2. PRODUCT OVERVIEW

The EXEDY DH07D is a high-quality single disc assembly featuring a sprung center design, engineered for reliable performance in automotive transmission systems. EXEDY is a leading manufacturer known for its commitment to quality and reliability in clutch components.

- **Famed Quality and Reliability:** Manufactured to high standards, ensuring consistent performance.
- **Copper Weave Discs:** The disc material incorporates a copper weave, which enhances heat resistance characteristics, contributing to durability under demanding conditions.
- **Optimized Clutch Covers:** Designed to achieve precise clamp loads, crucial for efficient power transfer and smooth engagement.



Figure 2.1: The EXEDY DH07D Single Disc Assembly, showing the overall design and components.

This product is designed as a replacement part for specific automotive applications, ensuring compatibility and performance equivalent to or exceeding original equipment specifications.

3. SAFETY INFORMATION

Always prioritize safety when working with automotive components. Improper installation or handling can lead to serious injury or damage to the vehicle.

- **Professional Installation Recommended:** Clutch replacement is a complex procedure that often requires specialized tools and expertise. It is highly recommended that installation be performed by a qualified automotive technician.
- **Wear Protective Gear:** Always wear appropriate personal protective equipment, including safety glasses and gloves, when handling automotive parts.
- **Vehicle Support:** Ensure the vehicle is securely supported on jack stands or a lift before beginning any work underneath. Never rely solely on a jack.
- **Cleanliness:** Maintain a clean work environment. Contaminants like grease or oil on clutch surfaces can severely impair performance.
- **Refer to Vehicle Service Manual:** Always consult the specific service manual for your vehicle for detailed removal and installation procedures, torque specifications, and safety precautions.

4. SETUP AND INSTALLATION

The installation of the EXEDY DH07D Single Disc Assembly requires careful attention to detail and adherence to proper automotive repair practices. This section provides general guidelines; always refer to your vehicle's specific service manual for comprehensive instructions.

4.1 Pre-Installation Checks

1. **Inspect Components:** Before installation, carefully inspect the clutch disc, pressure plate, and release bearing for any signs of damage, manufacturing defects, or contamination.
2. **Flywheel Preparation:** Ensure the flywheel surface is clean, flat, and free of hot spots or grooves. Resurfacing or replacement may be necessary.
3. **Pilot Bearing/Bushing:** Inspect and replace the pilot bearing or bushing if worn. Lubricate it lightly with high-temperature grease.
4. **Input Shaft Splines:** Clean and lightly lubricate the transmission input shaft splines with appropriate spline grease.

4.2 Installation Steps (General)

1. **Position Clutch Disc:** Using a clutch alignment tool, center the EXEDY DH07D clutch disc onto the flywheel. Ensure the correct side of the disc faces the pressure plate (usually marked "Flywheel Side" or similar).
2. **Install Pressure Plate:** Carefully align the pressure plate over the clutch disc and flywheel. Install the pressure plate bolts (such as the "automotive-clutch-bolts" that may be included or required).
3. **Tighten Bolts:** Gradually tighten the pressure plate bolts in a star pattern to the manufacturer's specified torque. This ensures even clamping force and prevents warping. Remove the alignment tool once a few bolts are snug.
4. **Install Transmission:** Carefully re-install the transmission, ensuring the input shaft splines engage smoothly with the clutch disc. Do not force the transmission into place.
5. **Bleed Hydraulic System:** If applicable, bleed the hydraulic clutch system to remove any air.



Figure 4.1: Various EXEDY clutch components, illustrating the complexity of a complete clutch system.

After installation, perform a break-in period as recommended by the vehicle or clutch manufacturer to allow the clutch surfaces to properly seat.

5. OPERATION

The EXEDY DH07D Single Disc Assembly is designed to provide smooth and reliable engagement and disengagement of power between the engine and transmission. The sprung center design helps to absorb drivetrain vibrations and reduce gear rattle, contributing to a more comfortable driving experience and extending the life of transmission components.

- **Smooth Engagement:** Proper operation involves smooth and gradual release of the clutch pedal to allow for seamless power transfer.
- **Full Disengagement:** Ensure the clutch pedal is fully depressed when shifting gears to prevent grinding and wear on the transmission synchronizers and clutch disc.

- **Avoid Riding the Clutch:** Prolonged slipping of the clutch (riding the clutch) generates excessive heat and accelerates wear on the disc.

6. MAINTENANCE

While the EXEDY DH07D clutch disc itself is a wear item and does not require routine maintenance, proper driving habits and periodic inspection of the clutch system can significantly extend its lifespan and identify potential issues early.

- **Regular Inspection:** During routine vehicle service, have the clutch system inspected for signs of wear, leaks in the hydraulic system, or unusual noises.
- **Hydraulic Fluid Check:** If your vehicle uses a hydraulic clutch, regularly check the fluid level and condition in the master cylinder reservoir. Replace fluid according to vehicle manufacturer recommendations.
- **Proper Driving Habits:** Avoid aggressive clutch engagement, excessive slipping, and resting your foot on the clutch pedal while driving.

7. TROUBLESHOOTING

This section addresses common issues that may arise with a clutch system and how they might relate to the clutch disc. Note that many clutch problems can stem from components other than the disc itself.

Symptom	Possible Cause (Clutch Disc Related)	Action
Clutch Slipping: Engine RPM increases without a corresponding increase in vehicle speed.	Worn clutch disc friction material, oil/grease contamination on disc, incorrect pressure plate clamp load.	Inspect clutch disc for wear or contamination. Verify pressure plate function. Professional inspection recommended.
Clutch Chattering/Shuddering: Vibration or judder during clutch engagement.	Warped or unevenly worn clutch disc, oil/grease contamination, worn flywheel surface.	Inspect clutch disc and flywheel. Ensure proper installation and alignment.
Difficulty Shifting/Grinding Gears: Especially when the vehicle is stationary.	Clutch disc not fully disengaging (e.g., due to warped disc, incorrect installation, or hydraulic issues).	Check clutch pedal free play and hydraulic system. Inspect clutch disc for warping or damage.
Burning Smell: Distinct odor, especially after heavy use.	Overheating due to excessive clutch slipping.	Review driving habits. Inspect clutch disc for severe wear or glazing.

If you experience any of these symptoms, it is advisable to have your vehicle inspected by a qualified technician to diagnose the root cause accurately.

8. SPECIFICATIONS

Key specifications for the EXEDY DH07D Single Disc Assembly Sprung Center Disc:

- **Model Number:** DH07D
- **Brand:** Exedy
- **Material:** Copper (for friction material weave)
- **Exterior Finish:** Machined
- **Manufacturer Grade:** Grade 2
- **Item Weight:** Approximately 3.1 pounds (1.4 kg)
- **Product Dimensions:** Approximately 9.8 x 1.4 x 9.6 inches (24.9 x 3.6 x 24.4 cm)
- **UPC:** 651099147390

- **Manufacturer Part Number:** DH07D



Figure 8.1: Close-up view of an EXEDY clutch disc, highlighting the friction material and sprung hub.

9. WARRANTY AND SUPPORT

For specific warranty information regarding your EXEDY DH07D Single Disc Assembly, please refer to the documentation provided with your purchase or contact your authorized EXEDY dealer or the seller directly. Warranty terms typically cover manufacturing defects and may vary based on region and point of purchase.

For technical support, installation guidance, or inquiries about product compatibility, please visit the official Exedy website or contact their customer service department. Contact details can usually be found on the product packaging or the manufacturer's website.

Exedy Official Website: www.exedyusa.com