

## Exedy HCF001

# EXEDY HCF001 Replacement Flywheel User Manual

Model: HCF001 | Brand: Exedy

## 1. INTRODUCTION

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This manual provides essential information for the proper installation, function, and maintenance of the EXEDY HCF001 Replacement Flywheel. The flywheel is a critical component in a vehicle's transmission system, designed to provide a friction surface for the clutch disc and store rotational energy from the engine.

The EXEDY HCF001 is an OEM replacement flywheel, manufactured from hardened alloy steel, ensuring durability and reliable performance. It is engineered for vehicle-specific fitment, primarily for Honda applications, and is designed to be resurfaced if necessary during clutch replacement.



Figure 1.1: Front view of the EXEDY HCF001 Replacement Flywheel, showing the friction surface and bolt holes.

## 2. SAFETY INFORMATION AND LEGAL DISCLAIMER

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**WARNING: Installation of automotive components should only be performed by qualified professionals. Improper installation can lead to serious injury, vehicle damage, or component failure. Always follow vehicle manufacturer's service procedures and safety precautions.**

EXEDY Globalparts Corporation (USA) is a wholly owned subsidiary of the EXEDY Corporation of Japan. EXEDY (Japan) was founded in 1923 and its clutch manufacturing business and prominent brand name Daikin Clutch are known throughout the world for supplying quality powertrain products. Our pursuit of perfection and the assurance of safety underlie our famed quality and reliability.

## 3. WHAT'S IN THE BOX

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The EXEDY HCF001 package typically includes the following:

- One (1) EXEDY HCF001 Replacement Flywheel

Please inspect all components upon receipt for any signs of damage or missing parts. Contact your supplier immediately if any issues are found.



Figure 3.1: Rear view of the EXEDY HCF001 Replacement Flywheel, showing the mounting surface and gear teeth.

## 4. INSTALLATION INSTRUCTIONS

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Installation of the EXEDY HCF001 Replacement Flywheel requires specialized tools and automotive knowledge. It is strongly recommended that installation be performed by a certified automotive technician.

### 4.1 Pre-Installation Checks

- Verify that the flywheel model HCF001 is correct for your vehicle's make, model, and year.
- Inspect the flywheel for any shipping damage, cracks, or imperfections.
- Ensure all mating surfaces on the engine crankshaft and clutch assembly are clean and free of oil, grease, or debris.

### 4.2 Installation Procedure (General Guidelines)

1. Safely lift and support the vehicle.
2. Remove the transmission and existing clutch assembly according to the vehicle manufacturer's service manual.
3. Remove the old flywheel.
4. Install the new EXEDY HCF001 flywheel onto the crankshaft, ensuring proper alignment.
5. Apply thread locker to flywheel bolts (if recommended by vehicle manufacturer) and torque them to the vehicle manufacturer's specifications in a star pattern.
6. Install the new clutch assembly (pressure plate and clutch disc) onto the flywheel, ensuring proper alignment with a clutch alignment tool.
7. Reinstall the transmission and all other removed components, following the vehicle manufacturer's service manual.

Refer to your specific vehicle's service manual for detailed torque specifications and step-by-step instructions.

## 5. PRODUCT FUNCTION AND OPERATION

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The flywheel is an essential component of a manual transmission system. Its primary functions include:

- **Inertia:** It stores rotational energy from the engine, smoothing out power delivery and reducing engine vibrations.
- **Clutch Surface:** It provides a flat, durable surface for the clutch disc to engage, transferring power from the engine to the transmission.
- **Starting:** The outer ring gear of the flywheel engages with the starter motor pinion to crank the engine.

Once installed, the EXEDY HCF001 flywheel operates continuously as part of the engine and transmission assembly, facilitating smooth clutch engagement and power transfer.

## 6. MAINTENANCE GUIDELINES

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The EXEDY HCF001 flywheel is designed for long-term durability. While it generally requires minimal direct maintenance, periodic inspection and proper handling during clutch service are crucial.

- **Inspection:** During any clutch replacement, inspect the flywheel friction surface for excessive wear, hot spots (blue discoloration), cracks, or deep grooves.
- **Resurfacing:** The EXEDY HCF001 flywheel is designed to be resurfaced. If the friction surface shows minor wear or hot spots, it can be machined by a qualified machine shop to restore a flat, even surface for optimal clutch engagement. Ensure resurfacing maintains the proper step height (if applicable) as per vehicle manufacturer specifications.
- **Cleaning:** Always clean the flywheel thoroughly with brake cleaner or a similar degreaser before installing a new clutch to remove any oil, grease, or debris that could contaminate the clutch disc.
- **Replacement:** If the flywheel exhibits severe cracks, warpage, or cannot be resurfaced to within specifications, it must be replaced.



Figure 6.1: Example of an EXEDY clutch and flywheel assembly, illustrating related components.

## 7. TROUBLESHOOTING COMMON ISSUES

While the flywheel itself is a robust component, issues related to its condition or installation can manifest as clutch or transmission problems. Consult a qualified technician for diagnosis and repair.

Symptom	Possible Cause	Resolution
Clutch chatter or shudder	Uneven flywheel surface, hot spots, or improper resurfacing.	Inspect and resurface or replace flywheel. Ensure proper clutch installation.
Difficulty shifting gears	Flywheel runout, improper clutch engagement due to flywheel issues.	Check flywheel runout, inspect clutch components, ensure proper installation.
Grinding noise during starting	Damaged flywheel ring gear teeth.	Inspect and replace flywheel if ring gear is damaged. Check starter motor.
Clutch slipping	Contaminated flywheel surface (oil/grease), excessively worn flywheel.	Clean or resurface/replace flywheel. Address source of contamination.

## 8. TECHNICAL SPECIFICATIONS

Specification	Detail
Brand	Exedy
Model Number	HCF001
Material	Alloy Steel
Color	Silver
Fit Type	Vehicle Specific Fit
Vehicle Service Type	Passenger Car

Specification	Detail
Item Weight	20 pounds
Product Dimensions	14.5 x 14.4 x 1.6 inches
Manufacturer Part Number	HCF001
UPC	826732924083, 651099113142
GTIN	00651099113142

## 9. WARRANTY INFORMATION

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Specific warranty details for the EXEDY HCF001 Replacement Flywheel are typically provided at the point of purchase or included with the product packaging. Generally, EXEDY products are backed by a manufacturer's warranty against defects in materials and workmanship.

For detailed warranty terms and conditions, please refer to the documentation supplied with your purchase or visit the official EXEDY website. Keep your proof of purchase for warranty claims.

## 10. CUSTOMER SUPPORT

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For technical assistance, installation questions, or warranty inquiries regarding your EXEDY HCF001 Replacement Flywheel, please contact EXEDY customer support or your authorized EXEDY dealer.

You can typically find contact information on the official EXEDY website or through your product retailer.



Figure 10.1: EXEDY company logo.



Figure 10.2: Exterior view of an EXEDY corporate building.

