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HKS HKS-26010-AF002

HKS 26010-AF002 Light Action Clutch Kit User Manual

Model: HKS-26010-AF002

Product Overview

The HKS 26010-AF002 Light Action Clutch Kit is engineered for enhanced performance in automotive applications. This kit is designed to provide a balance of durability and responsive engagement, suitable for various driving conditions. It incorporates advanced materials and design principles to optimize power transfer and driver feel.



Figure 1: Main components of the HKS Light Action Clutch Kit, including the lightweight flywheel, MG composite clutch disc, and pressure plate with strap drive, alongside mounting bolts.

Key Components

- **Lightweight Flywheel:** Designed to reduce rotational inertia, allowing for quicker engine response and improved acceleration.

- **MG Composite Clutch Disc:** Utilizes a specialized composite material for enhanced friction, heat resistance, and durability, ensuring consistent performance.
- **Pressure Plate with Strap Drive:** Provides consistent clamping force and smooth engagement, contributing to reliable clutch operation.

Installation and Setup

Installation of the HKS Light Action Clutch Kit requires professional automotive knowledge and specialized tools. It is highly recommended that installation be performed by a certified mechanic or an experienced technician.

Pre-Installation Checks:

1. Verify all kit components are present and undamaged.
2. Ensure the transmission and engine mating surfaces are clean and free of oil or grease.
3. Inspect the pilot bearing and replace if necessary.
4. Confirm the correct vehicle application for this clutch kit.

Installation Steps (Summary):

Note: This is a summary. Refer to a comprehensive service manual for your specific vehicle for detailed instructions.

1. Safely lift and secure the vehicle.
2. Remove the transmission from the vehicle.
3. Remove the old clutch assembly and flywheel.
4. Install the new HKS lightweight flywheel, ensuring proper torque specifications are met for the flywheel bolts.
5. Install the MG composite clutch disc and pressure plate, using a clutch alignment tool to center the disc. Torque pressure plate bolts evenly and to specification.
6. Reinstall the transmission, ensuring proper alignment and engagement.
7. Reconnect all necessary components (starter, slave cylinder, etc.).
8. Bleed the hydraulic clutch system if applicable.



Figure 2: Exploded view and feature highlights of the HKS Light Action Clutch Kit, illustrating the MG composite disc, lightweight flywheel, strap drive, and noise reduction elements. This diagram emphasizes the engineering behind the kit's performance and

durability.

Operating Considerations

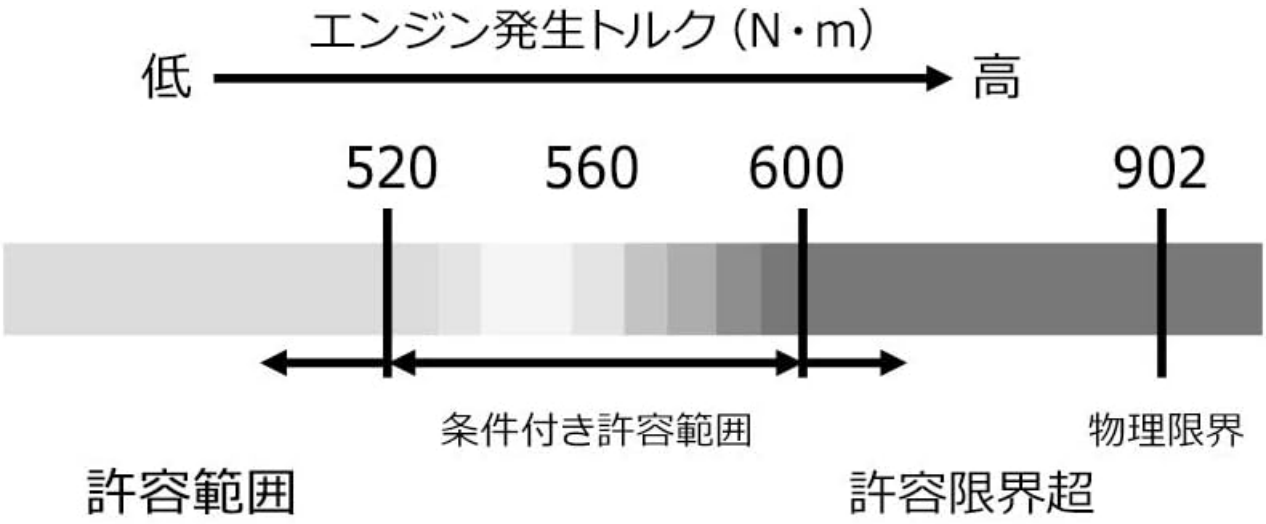
Break-in Period:

A proper break-in period is crucial for optimal performance and longevity of your new clutch kit. During the first 300-500 miles (500-800 km) after installation:

- Avoid aggressive driving, rapid acceleration, and hard shifts.
- Minimize stop-and-go traffic and excessive clutch slipping.
- Allow the clutch surfaces to properly seat and conform to each other.

Performance Characteristics:

The HKS Light Action Clutch Kit is designed for improved engine response and efficient power transfer. Users may experience a firmer pedal feel and more direct engagement compared to a stock clutch. The lightweight flywheel contributes to quicker revving and reduced inertia.



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●条件付き許容範囲とは、ラフな扱いやタイヤからのキックバック、使用過程における各部の歪みなどですべりが発生しうる範囲です。

●許容限界超は、高回転でのミート時にすべりが発生する範囲です。

●物理限界は走行中にアクセルを踏んだだけですべりが発生するポイントです。

■LAクラッチと純正クラッチの比較

	インプレッサ/ワゴン・レガシィ/ワゴン・フォレスター		
	純正	HKS	対純正比
クラッチ容量（N・m）	600	902	150%
踏力（N）	132	152	115%
FW重量（kg）	10.94	5.74	52.6%

Figure 3: Torque capacity comparison and operational limits for the HKS Light Action Clutch Kit. This graph indicates the permissible torque range, conditional permissible range (where some slip may occur under harsh conditions), and the physical limit where slip is expected with just accelerator input. It also provides a comparison table showing increased clutch capacity and reduced flywheel weight compared to OEM for specific vehicle models.

As shown in Figure 3, the HKS Light Action Clutch Kit offers a significantly higher torque capacity compared to standard OEM clutches, allowing for greater power handling. The reduced flywheel weight also contributes to the "Light Action" characteristic, enhancing engine responsiveness.

Maintenance

The HKS Light Action Clutch Kit is designed for durability and minimal maintenance under normal operating conditions. Regular vehicle maintenance practices are generally sufficient.

- **Clutch Fluid (Hydraulic Systems):** Check and replace clutch fluid according to your vehicle manufacturer's recommendations. Ensure the fluid level is correct and the fluid is clean.
- **Inspection:** During routine vehicle inspections (e.g., transmission service), visually inspect the clutch components for signs of excessive wear, burning, or unusual noise.
- **Driving Habits:** Prolong the life of your clutch by avoiding habits such as riding the clutch, excessive slipping, or holding the vehicle on a hill using the clutch instead of the brake.

Troubleshooting

If you experience issues with your HKS Light Action Clutch Kit, consider the following common problems and potential solutions. For complex issues, consult a qualified mechanic.

Symptom	Possible Cause	Solution
Clutch Slipping	Worn clutch disc, oil/grease on clutch surface, improper break-in, insufficient pressure plate clamping force.	Inspect clutch for wear/contamination. Ensure proper break-in. Verify pressure plate installation. May require replacement.
Difficulty Shifting Gears	Clutch not fully disengaging, air in hydraulic system, worn pilot bearing, misaligned clutch disc.	Bleed hydraulic system. Check pilot bearing. Re-align clutch disc. Inspect slave/master cylinder.
Clutch Chatter/Vibration	Warped flywheel, worn clutch disc, loose pressure plate bolts, contaminated clutch surface, worn transmission mounts.	Inspect flywheel and clutch disc. Re-torque pressure plate bolts. Check for contamination. Inspect mounts.
Unusual Noises (e.g., Squealing, Grinding)	Worn release bearing, pilot bearing, or input shaft bearing. Contaminated clutch.	Identify source of noise. Replace worn bearings. Clean clutch components if accessible.

Specifications

Attribute	Detail
Model Number	HKS-26010-AF002
Manufacturer	HKS
Product Dimensions	Approximately 16 x 16 x 6 inches (40.6 x 40.6 x 15.2 cm)
Country of Origin	Japan
Clutch Type	Light Action, Single Disc
Disc Material	MG Composite
Flywheel Type	Lightweight

Warranty and Support

For specific warranty information regarding your HKS 26010-AF002 Light Action Clutch Kit, please refer to the warranty card included with your product or visit the official HKS website. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

For technical support, installation inquiries, or warranty claims, please contact HKS customer service or your authorized HKS dealer. Ensure you have your product model number (HKS-26010-AF002) and proof of purchase available when contacting support.

Official HKS Website: www.hks-power.co.jp/en/

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