

## 1040T

# Falk 1040T Hub Instruction Manual

For 40 & 1040T Steelflex Couplings

## INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Falk 1040T Hub. This hub is designed for use with Falk 40 and 1040T Steelflex Couplings, featuring a 1.625 inch bore and a 3/8 x 3/16 inch keyway. Adherence to these instructions will ensure optimal performance and longevity of the product.

**Important Safety Notice:** These products must be installed as explained in the Falk Service Manual. Copies are available upon request from The Falk Corporation, a subsidiary of Sundstrand Corporation, Milwaukee, Wisconsin, U.S.A.

## PRODUCT OVERVIEW

The Falk 1040T Hub is a critical component in power transmission systems, designed to connect shafts and transmit torque efficiently when paired with compatible Steelflex couplings. Its robust construction ensures reliable operation in industrial environments.





Image 1: The Falk 1040T Hub alongside its original packaging and a sealed bag containing small components, likely keys or fasteners. The packaging clearly labels the product as a "1040T HUB" for "Falk Steelflex Couplings" with a "BORE 1.625 Kwy 3/8 X 3/16".



Image 2: Close-up view of the front of the Falk 1040T Hub packaging. The yellow box features the "FALK" logo and "1040T HUB" text, along with specifications for "40 & 1040T Falk Steelflex Couplings" and bore/keyway dimensions.



Image 3: View of the bottom of the Falk 1040T Hub packaging. It includes a caution message stating, "CAUTION: THESE PRODUCTS MUST BE INSTALLED AS EXPLAINED IN FALK SERVICE MANUAL. COPIES AVAILABLE UPON REQUEST." It also lists "THE FALK CORPORATION" and its location.



Image 4: Top-down view of the Falk 1040T Hub, showing the central bore and the external gear teeth designed to engage with the flexible element of a Steelflex coupling. Markings on the hub indicate "FALK 1040T" and a part number.

## SETUP AND INSTALLATION

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Proper installation is crucial for the safe and efficient operation of the Falk 1040T Hub. Always refer to the official Falk Service Manual for detailed instructions specific to your coupling type and application. The following steps provide a general overview.

- 1. Preparation:** Ensure all mating surfaces on the shaft and hub are clean, free of burrs, and dry. Verify that the shaft diameter matches the hub's bore (1.625 inches) and that the keyway dimensions (3/8 x 3/16 inches) are compatible.
- 2. Key Installation:** Insert the appropriate key into the shaft's keyway. Ensure it fits snugly without excessive play.
- 3. Hub Mounting:** Carefully slide the Falk 1040T Hub onto the shaft, aligning the hub's keyway with the key. Apply even pressure to seat the hub fully. Do not force the hub onto the shaft; if resistance is met, recheck alignment and shaft/bore dimensions.
- 4. Securing the Hub:** Depending on the specific coupling design, the hub may be secured with set screws, a tapered bushing, or other fastening mechanisms. Follow the torque specifications provided in the Falk Service Manual for all fasteners.
- 5. Alignment:** Once both hubs are installed on their respective shafts, ensure precise alignment between the two hubs. Misalignment can lead to premature wear and failure of the coupling and connected equipment. Use appropriate alignment tools (e.g., dial indicators, laser alignment systems).

*Note:* For applications requiring a shrink fit or other specialized mounting procedures, consult the comprehensive Falk Service Manual.

## OPERATING GUIDELINES

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The Falk 1040T Hub itself does not have operational controls; its function is passive, transmitting torque as part of a larger coupling assembly. Proper operation relies on the correct installation and maintenance of the entire coupling system.

- **Load Limits:** Ensure that the operational torque and speed do not exceed the rated capacities of the Falk 1040T Hub and the associated Steelflex coupling. Refer to the coupling's specifications for these limits.
- **Vibration Monitoring:** Monitor the system for unusual vibrations or noises during operation. Increased vibration can indicate misalignment, wear, or damage to the coupling components, including the hub.
- **Temperature:** Operate within the specified temperature range for the coupling. Excessive heat can degrade coupling components and affect hub performance.

## MAINTENANCE

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Regular maintenance is essential to maximize the lifespan and ensure the reliable performance of the Falk 1040T Hub and the entire coupling assembly.

- **Periodic Inspection:**
  - Visually inspect the hub and coupling components for signs of wear, corrosion, cracks, or damage.
  - Check for fretting corrosion between the hub and shaft, which can indicate improper fit or excessive vibration.
  - Ensure all fasteners are tight and secure.
- **Lubrication (if applicable):** Some Steelflex couplings require periodic lubrication. Follow the lubrication schedule and type specified in the Falk Service Manual for the complete coupling assembly. The hub itself typically does not require lubrication.
- **Cleaning:** Keep the hub and surrounding area clean from dirt, dust, and debris, which can contribute to wear or interfere with proper operation.
- **Replacement:** If the hub shows significant signs of wear, damage, or deformation, it should be replaced immediately to prevent catastrophic failure of the power transmission system.

## TROUBLESHOOTING

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While the Falk 1040T Hub is a robust component, issues in the coupling system can manifest through symptoms related to the hub. Consult the full Falk Service Manual for comprehensive troubleshooting guides.

Symptom	Possible Cause	Recommended Action
Excessive Vibration	Misalignment between shafts; Worn coupling element; Loose hub on shaft; Unbalanced rotating components.	Check and correct shaft alignment; Inspect and replace coupling element; Re-torque hub fasteners; Balance rotating machinery.
Unusual Noise (e.g., grinding, clunking)	Lack of lubrication (if applicable); Damaged coupling element; Hub contacting guard or other components.	Verify lubrication schedule and type; Inspect and replace damaged coupling element; Check clearances and adjust guards.
Hub Slipping on Shaft	Improperly torqued fasteners; Incorrect key fit; Worn keyway or shaft; Incorrect bore size.	Re-torque fasteners to specification; Inspect key and keyway for wear; Verify shaft and bore dimensions; Replace hub or shaft if necessary.
Overheating of Hub/Coupling	Excessive misalignment; Overload condition; Insufficient ventilation; Incorrect lubrication.	Correct alignment; Reduce load if exceeding capacity; Ensure proper airflow; Verify lubrication.

## SPECIFICATIONS

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Key specifications for the Falk 1040T Hub:

- **Model:** 1040T Hub
- **Compatibility:** Falk 40 & 1040T Steelflex Couplings
- **Bore Diameter:** 1.625 inches
- **Keyway Dimensions:** 3/8 inch x 3/16 inch
- **Manufacturer:** Generic (originally Falk Corporation)
- **ASIN:** B0CSGC6T1R
- **Country of Origin:** USA
- **Date First Available:** January 16, 2024

## WARRANTY AND SUPPORT

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For specific warranty information regarding the Falk 1040T Hub, please refer to the original purchase documentation or contact the seller. As this product is often sold as a replacement part, warranty terms may vary.

For technical support, detailed service manuals, or inquiries about Falk Steelflex Couplings, it is recommended to contact the manufacturer or an authorized distributor of Falk products. The original manufacturer, The Falk Corporation, is a subsidiary of Sundstrand Corporation, based in Milwaukee, Wisconsin, U.S.A.

*Note:* The product listing indicates a 30-day refund/replacement return policy from the seller, labtechsales, for this specific item.

