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› Speedmaster 1-415-001-02 Compatible with Chevy SBC 350 Aluminum Complete Serpentine Engine Pulley Kit [Black] Instruction Manual

Speedmaster 1-415-001-02

Speedmaster 1-415-001-02 Serpentine Engine Pulley Kit

Instruction Manual

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Speedmaster 1-415-001-02 Aluminum Complete Serpentine Engine Pulley Kit. Designed for Chevy SBC 350 engines, this high-quality billet aluminum kit ensures optimal performance and reliability for racing applications. Please read all instructions carefully before proceeding with installation or use.



Figure 1: Speedmaster Serpentine Engine Pulley Kit installed on a Chevy SBC 350 engine.

2. PRODUCT OVERVIEW AND COMPONENTS

The Speedmaster 1-415-001-02 Serpentine Engine Pulley Kit is a comprehensive system designed to efficiently drive your engine's accessories. It features a durable billet aluminum construction with an anodized black finish for enhanced longevity and aesthetics.

Key Components Included:

- **Pulley Style:** Serpentine
- **Pulley Set Style:** High Water Flow Ratio
- **Pulley Material:** Billet Aluminum
- **Pulley Finish:** Anodized Black
- **Crankshaft Pulley:** Included (Serpentine Grooves)
- **Water Pump Pulley:** Included (Serpentine Grooves)
- **Power Steering Pulley:** Included (Serpentine Grooves, Bolt On Adapter)
- **Power Steering Brackets:** Included
- **Alternator Brackets:** Included
- **Air Conditioning Pulley:** Included
- **Air Conditioning Cover:** Included
- **Air Conditioning Bracket:** Included
- **Hardware:** Included

Note: Alternator Pulley, Alternator Fan, Alternator Nose Cover, Crankshaft Nose Cover, Idler/Tensioner, Idler Cover, and Idler Brackets are not included as part of this specific kit.



Figure 2: All components of the Speedmaster Serpentine Engine Pulley Kit.

3. SETUP AND INSTALLATION

Installation of the Speedmaster Serpentine Engine Pulley Kit requires mechanical aptitude and specialized tools. It is highly recommended that installation be performed by a qualified automotive professional to ensure proper fitment and function.

General Installation Guidelines:

1. **Safety First:** Disconnect the vehicle's battery. Ensure the engine is cool before beginning any work. Use appropriate personal protective equipment (PPE) such as safety glasses and gloves.
2. **Remove Old Components:** Carefully remove the existing pulley system, belts, and brackets from your engine. Refer to your vehicle's service manual for specific removal procedures.
3. **Clean Mounting Surfaces:** Thoroughly clean all mounting surfaces on the engine block and accessories to ensure proper seating of the new components.
4. **Install Brackets:** Mount the new billet aluminum power steering and air conditioning brackets to their respective locations on the engine. Ensure all fasteners are torqued to manufacturer specifications.

5. **Install Pulleys:** Attach the crankshaft, water pump, and power steering pulleys. The power steering pulley utilizes a bolt-on adapter for secure fitment.
6. **Install Serpentine Belt:** Route the serpentine belt according to the engine's diagram, ensuring proper tension.
7. **Double-Check:** Verify that all components are securely fastened, belts are correctly routed and tensioned, and there are no obstructions.
8. **Reconnect Battery:** Reconnect the battery and perform a test run, checking for any unusual noises or vibrations.



Figure 3: Example of a billet aluminum bracket included in the kit.

4. OPERATING CONSIDERATIONS

The Speedmaster Serpentine Engine Pulley Kit is designed to provide efficient and reliable operation of your engine's accessories. Its "High Water Flow Ratio" pulley set style is engineered to optimize coolant circulation, which is crucial for maintaining engine temperature, especially in high-performance or racing environments.

Once properly installed, the system will seamlessly integrate with your Chevy SBC 350 engine, driving the power steering pump, water pump, and air conditioning compressor (if applicable) with precision and minimal power loss.

5. MAINTENANCE

Regular maintenance of your serpentine pulley system is vital for ensuring its longevity and optimal performance.

Recommended Maintenance Schedule:

- **Visual Inspection (Every Oil Change):**
 - Check the serpentine belt for cracks, fraying, or excessive wear. Replace if necessary.
 - Inspect all pulleys for signs of wobble, excessive play, or unusual noise.
 - Ensure all bolts and fasteners are tight.
 - Look for any signs of corrosion or damage to the billet aluminum components.
- **Cleaning:** Keep the pulleys and belts free from dirt, grease, and debris. A clean system operates more efficiently.
- **Belt Tension:** Periodically check and adjust belt tension as needed to prevent slippage or excessive wear on components. Refer to your engine's specifications for correct tension.

6. TROUBLESHOOTING

If you encounter issues with your Speedmaster Serpentine Engine Pulley Kit, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Squealing/Chirping Noise	Loose or worn belt, misaligned pulleys, contaminated belt/pulleys.	Check belt tension, inspect for wear/damage, clean pulleys, ensure proper alignment.
Excessive Vibration	Loose components, unbalanced pulley, worn bearings in accessories.	Tighten all fasteners, inspect pulleys for damage, check accessory bearings.
Accessory Malfunction (e.g., power steering loss)	Belt slippage, seized accessory, incorrect installation.	Verify belt tension and routing, check accessory function, re-check installation steps.

If troubleshooting steps do not resolve the issue, consult a qualified mechanic or contact Speedmaster customer support.

7. SPECIFICATIONS

Specification	Detail
Brand	Speedmaster
Part Number	1-415-001-02
Part Type	Pulley Kit
Pulley Style	Serpentine
Pulley Set Style	High Water Flow Ratio
Pulley Material	Billet Aluminum
Pulley Finish	Anodized Black
Item Weight	17.33 pounds
Product Dimensions	22.5 x 14 x 6 inches
Manufacturer Part Number	1-415-001-02

8. IMPORTANT SAFETY INFORMATION

Legal Disclaimer: Intended for racing applications only. Not for street use.

Always adhere to local and national regulations regarding vehicle modifications and usage. Improper installation or use of this product can lead to serious injury or damage to property.

9. OFFICIAL PRODUCT VIDEO



Video: "This is Speedmaster" - An official video from Speedmaster USA showcasing the brand's history, manufacturing process, and commitment to quality and performance.

10. WARRANTY AND SUPPORT

For specific warranty information regarding your Speedmaster 1-415-001-02 Serpentine Engine Pulley Kit, please refer to the documentation included with your purchase or visit the official Speedmaster website. Warranty terms and conditions may vary. For technical support, installation assistance, or any other inquiries, please contact Speedmaster customer service directly.

Contact information can typically be found on the product packaging or the official Speedmaster website. You can visit the [Speedmaster Store on Amazon](#) for more information.

