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› Sunex International SUN10000 V6-V8 Small Block Chevy Crankshaft Turning Socket User Manual

Sunex Tools 10000

Sunex International SUN10000 V6-V8 Small Block Chevy Crankshaft Turning Socket User Manual

Model: SUN10000 (Part No. 10000)

PRODUCT OVERVIEW

The Sunex International SUN10000 Crankshaft Turning Socket is a specialized tool designed for use with V6 and V8 Small Block Chevy engines. Its primary function is to rotate the crankshaft when the harmonic balancer has been removed, facilitating various engine maintenance and assembly tasks.

This socket is constructed from durable aluminum metal, ensuring lightweight handling and resistance to corrosion. It is engineered to fit 29.64 ball joints, providing a secure connection for manual crankshaft rotation.



Figure 1: The Sunex International SUN10000 Crankshaft Turning Socket. This image shows the cylindrical aluminum socket with a notched opening at the top, designed to engage with the crankshaft.

SAFETY INFORMATION

WARNING:

- This socket is **NOT** intended for use with an impact tool of any kind.
- Use of this socket with an impact tool can cause serious injury to the user and damage to the tool or engine components.
- Always wear appropriate personal protective equipment (PPE), such as safety glasses, when working with automotive tools.
- Ensure the vehicle is properly secured and supported before performing any work on the engine.

- Refer to your vehicle's service manual for specific procedures and torque specifications.

SETUP AND PREPARATION

1. **Engine Compatibility:** Verify that your engine is a V6 or V8 Small Block Chevy. This tool is specifically designed for these engine types.
2. **Harmonic Balancer Removal:** Ensure the harmonic balancer has been safely and completely removed from the crankshaft. The socket is designed to engage directly with the crankshaft snout.
3. **Tool Inspection:** Before each use, inspect the SUN10000 socket for any signs of damage, cracks, or wear. Do not use a damaged tool.
4. **Required Tools:** You will need a 1/2-inch drive ratchet or breaker bar to operate the socket.

OPERATING INSTRUCTIONS

1. **Attach Socket:** Slide the Sunex SUN10000 Crankshaft Turning Socket onto the end of the crankshaft. Ensure the internal notch of the socket aligns correctly with the keyway or flat on the crankshaft snout.
2. **Connect Drive Tool:** Insert a 1/2-inch drive ratchet or breaker bar into the square drive opening of the socket.
3. **Rotate Crankshaft:** Slowly and carefully rotate the crankshaft in the desired direction using the ratchet or breaker bar. Apply steady, controlled force.
4. **Monitor Engine:** Observe the engine components as you rotate the crankshaft to ensure proper movement and to avoid interference.
5. **Remove Tool:** Once the desired crankshaft position is achieved, remove the ratchet or breaker bar, then carefully slide the SUN10000 socket off the crankshaft.

Note: This tool is designed for manual rotation only. Do not attempt to use power tools or impact wrenches with this socket.

MAINTENANCE AND STORAGE

- **Cleaning:** After each use, wipe the socket clean with a dry cloth to remove any oil, grease, or debris.
- **Inspection:** Periodically inspect the socket for any signs of wear, deformation, or damage. Pay close attention to the internal engagement surfaces.
- **Storage:** Store the socket in a clean, dry place, away from excessive moisture or corrosive materials. A tool chest or drawer is ideal to protect it from physical damage.
- **Lubrication:** No specific lubrication is required for this tool.

TROUBLESHOOTING

The Sunex SUN10000 is a simple mechanical tool, and issues are typically related to improper application or engine compatibility.

Problem	Possible Cause	Solution
Socket does not fit crankshaft.	Incorrect engine type or crankshaft design.	Verify engine is a V6/V8 Small Block Chevy. Ensure harmonic balancer is fully removed. Consult vehicle service manual for crankshaft specifications.

Problem	Possible Cause	Solution
Crankshaft does not turn.	Engine seized, transmission in gear, or other mechanical obstruction.	Ensure transmission is in neutral (manual) or park (automatic). Check for other engine issues preventing rotation. Do not force the tool.
Socket slips on crankshaft.	Improper engagement or worn socket.	Ensure socket is fully seated and aligned with the crankshaft's keyway/flat. Inspect socket for wear; replace if damaged.

SPECIFICATIONS

Model Number:	SUN10000 (Part No. 10000)
Compatibility:	V6-V8 Small Block Chevy Engines
Drive Size:	1/2 inch
Material:	Aluminum Metal
Dimensions:	4.06 x 4.06 x 3.81 cm (1.6 x 1.6 x 1.5 inches)
Item Weight:	68 g (0.15 lbs)

WARRANTY INFORMATION

Sunex Tools products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the official Sunex Tools website or contact their customer support. Keep your purchase receipt as proof of purchase.

CUSTOMER SUPPORT

For technical assistance, product inquiries, or warranty claims, please contact Sunex Tools customer support:

Website: www.sunextools.com (Please note: This is a placeholder URL, replace with actual if available)
Phone: Refer to the official website for regional contact numbers.

When contacting support, please have your product model number (SUN10000) and purchase details ready.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question