NEIKO 20601A

NEIKO 20601A 14.5-inch Steel Tire Spoon Set with Rim Protectors and Valve Tool (13-Piece)

Model: **20601A** | Brand: **NEIKO**

1. Introduction

This instruction manual provides detailed guidance for the safe and effective use of your NEIKO 20601A 13-piece Steel Tire Spoon Set. This comprehensive kit is designed to assist in the removal and installation of tires on various vehicles, including motorcycles, dirt bikes, ATVs, lawn tractors, and lawnmowers. Please read this manual thoroughly before operating the tools to ensure proper usage and to prevent damage to tires, rims, or personal injury.



Image 1.1: Overview of the NEIKO 20601A 13-piece Steel Tire Spoon Set, including three tire spoons, three rim protectors, a valve tool, and six valve cores.

2. Package Contents

Verify that all items listed below are present in your package:

- 3 x 14.5-inch Steel Tire Spoons
- 3 x Polypropylene Rim Protectors
- 1 x 4-Point Valve Tool
- 6 x Brass Schrader Valve Cores

3. Safety Information

Always prioritize safety when working with tools and vehicle components. Failure to follow safety guidelines may result in injury or damage.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.

- Ensure the vehicle or wheel is stable and properly secured before beginning any work.
- Never use excessive force. If a tool is not performing as expected, re-evaluate the procedure.
- Keep hands and fingers clear of pinch points when manipulating tires and rims.
- Do not use damaged or modified tools.
- Keep children and bystanders away from the work area.

4. Component Overview

4.1. Steel Tire Spoons

The three 14.5-inch tire spoons are constructed from hardened steel-iron, providing durability and strength. They feature curved tips for easy insertion and leverage, and a chrome polish finish for corrosion resistance. The ergonomic, rubberized groove handles are designed to reduce hand fatigue and enhance grip.



Image 4.1: Detailed view of the tire spoon features, highlighting the rust-resistant finish, 14.5-inch length, and ergonomic rubberized handle.

4.2. Rim Protectors

The set includes three durable polypropylene rim protectors. These are designed to be placed between the tire spoon and the rim during tire removal and installation to prevent scratches or damage to the wheel's finish.



Image 4.2: A single blue rim protector, designed to shield the wheel from damage during tire changes.

4.3. 4-Point Valve Tool

This versatile tool is used for various valve-related tasks. It features:

- **Valve Core Remover:** For quick removal and installation of valve cores.
- **Deflation Needle:** To rapidly deflate tires.
- **Clean Screw Thread:** To clean threads on valve stems.
- **Tapping Mouth:** For attachments of various bits.



Image 4.3: The 4-point valve tool, showing its various functions for tire valve maintenance.

4.4. Brass Schrader Valve Cores

Six replacement brass Schrader valve cores are included for convenience, allowing for easy replacement of worn or damaged valve cores.



Image 4.4: A set of six brass Schrader valve cores for replacement.

5. Operating Instructions: Tire Changing Procedure

This section outlines the general steps for removing and installing a tire using the NEIKO 20601A tool set. Specific procedures may vary based on tire and rim type.

5.1. Preparation

1. Ensure the vehicle or wheel is securely supported and cannot move.
2. Gather all necessary tools: NEIKO tire spoons, rim protectors, valve tool, new tire/tube, tire lubricant (optional), and an air compressor.
3. Clean the tire and rim area to remove dirt and debris.

5.2. Deflating the Tire

1. Remove the valve cap.
2. Use the valve core remover end of the 4-point valve tool to unscrew and remove the valve core. This will rapidly deflate the tire.
3. Store the valve core in a safe place if it is to be reused.

5.3. Breaking the Bead

1. Position the wheel flat on a stable surface.
2. Apply pressure to the sidewall of the tire, near the rim, to break the bead seal. This can be done by stepping on the tire or using a specialized bead breaker if available. Ensure the valve stem is not damaged.
3. Repeat on both sides of the tire until the bead is fully separated from the rim.

5.4. Using Tire Spoons and Rim Protectors

1. Place a rim protector over the edge of the rim, adjacent to where you will begin prying.
2. Insert the curved tip of a tire spoon between the tire bead and the rim, ensuring the rim protector is in place to prevent damage.
3. Lever the tire bead over the rim. Hold this spoon in place.
4. Place a second rim protector a few inches away from the first spoon. Insert a second tire spoon and lever the bead over the rim.
5. Continue this process, working around the rim, using the third spoon as needed, until one side of the tire bead is completely off the rim.



Image 5.1: Demonstrating the use of tire spoons and rim protectors for tire removal.

5.5. Removing the Tire

1. Once one bead is off, push the inner tube (if present) through the rim hole.
2. Repeat the spooning process for the second bead, carefully working the tire off the rim.

5.6. Installing the New Tire

1. Apply tire lubricant (or soapy water) to the beads of the new tire and the rim edges.
2. Place one side of the new tire bead onto the rim, starting opposite the valve stem hole.
3. If installing a new inner tube, insert it into the tire and feed the valve stem through the rim hole. Secure it with the valve stem nut.
4. For the second bead, use the tire spoons and rim protectors to carefully lever the bead over the rim, working around the circumference. Ensure the inner tube is not pinched between the tire bead and the rim.

5.7. Inflating and Seating the Bead

1. Reinstall the valve core using the 4-point valve tool.
2. Slowly inflate the tire with an air compressor. Listen for two distinct pops, indicating that both beads have properly seated on the rim.
3. Inflate the tire to the manufacturer's recommended pressure.
4. Check for leaks using soapy water around the beads and valve stem.

6. Maintenance

- After each use, clean the tire spoons and valve tool to remove any dirt, grease, or tire lubricant.
- Wipe the steel components with a clean cloth to maintain the chrome finish and prevent rust.
- Store all components in a dry place to prevent corrosion.
- Inspect tools regularly for signs of wear or damage. Replace any damaged components immediately.

7. Troubleshooting

7.1. Difficulty Removing Tire Bead

- Ensure the tire is fully deflated.
- Apply more tire lubricant or soapy water to the bead and rim.
- Ensure the opposite side of the tire bead is pushed into the drop center of the rim to provide maximum slack.

7.2. Pinching Inner Tube During Installation

- Ensure the inner tube is properly seated within the tire and not protruding over the rim edge.
- Use extra caution and smaller bites with the tire spoons when installing the final section of the bead.
- Slightly inflate the inner tube before installing the second bead to give it shape and prevent pinching.

7.3. Rim Damage

- Always use the rim protectors.
- Ensure the tire spoon is positioned correctly, leveraging against the tire bead and not directly against the rim.

8. Specifications

Feature	Detail
Model Number	20601A
Tire Spoon Length	14.5 inches (37 cm)
Material	Hardened Steel-Iron (Spoons), Polypropylene (Rim Protectors)
Finish	Chrome Polish (Spoons)
Handle	Ergonomic Rubberized Groove
Item Weight	1.74 pounds
Package Dimensions	14.96 x 3.94 x 1.38 inches
Power Source	Hand Powered

Included Components	3 Tire Spoons, 3 Rim Protectors, 1 Valve Tool, 6 Valve Cores

9. Warranty and Support

For warranty information or technical support regarding your NEIKO 20601A Tire Spoon Set, please refer to the product packaging or contact NEIKO customer service directly. Keep your purchase receipt for warranty claims.

© 2025 NEIKO. All rights reserved.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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