

singer prelude manual PDF

singer prelude manual serves as an essential guide for musicians, technicians, and enthusiasts who own or work with the Singer Prelude sewing machine. Whether you are a beginner just starting out or an experienced user seeking to optimize machine performance, understanding the detailed instructions within the Singer Prelude manual is crucial. This comprehensive guide covers everything from setup and basic operation to maintenance and troubleshooting, ensuring you get the most out of your sewing machine. In this article, we will explore the key features of the Singer Prelude, provide step-by-step instructions for common tasks, and offer expert tips to enhance your sewing experience.

Overview of the Singer Prelude Sewing Machine

The Singer Prelude is a popular model renowned for its durability, versatility, and user-friendly features. Designed for both novice and advanced sewers, it offers a range of stitch options, adjustable settings, and reliable performance. Understanding the specifications and features outlined in the Singer Prelude manual is fundamental for optimal use.

Key Features of the Singer Prelude

- Multiple Stitch Options: Straight, zigzag, decorative stitches
- Adjustable Stitch Length and Width
- Built-in Buttonhole Function
- Free Arm Design for sewing cuffs and collars
- Drop Feed for quilting and free-motion embroidery
- Easy Threading System
- Built-in Light for better visibility
- Durable metal construction

Getting Started with the Singer Prelude

Before diving into sewing projects, it is essential to familiarize yourself with the basic setup and initial configuration as outlined in the manual.

Unboxing and Initial Setup

- Carefully unpack the machine, ensuring all accessories such as presser feet, bobbins, needles,

and screwdrivers are present.

- Place the machine on a stable, flat surface.
- Connect the power cord and foot pedal to the machine and plug into a power outlet.
- Turn the power switch on and check that the built-in light illuminates.

Threading the Machine

Proper threading is crucial for smooth sewing operation:

- Raise the presser foot.
- Follow the threading path as indicated in the manual, typically starting from the spool pin, through tension discs, take-up lever, and needle.
- Wind a bobbin and insert it into the bobbin case, ensuring correct placement.
- Thread the bobbin thread and draw both upper and lower threads to the back of the machine.

Loading the Bobbin and Threading the Needle

- Place the wound bobbin into the bobbin case with the thread unwinding in the correct direction.
- Pull the upper thread to engage the tension system.
- Use the handwheel to lower and raise the needle to ensure proper threading.

Basic Sewing Operations

With your machine properly threaded, you can proceed to basic sewing tasks.

Selecting Stitch Types and Adjustments

Most Singer Prelude models allow you to select stitches via a dial or control panel:

- Turn the stitch selector to your desired stitch type.
- Adjust stitch length and width using dedicated dials or buttons, referring to the manual for recommended settings.

Starting to Sew

- Place your fabric under the presser foot.
- Lower the presser foot using the lever.

- Slowly press the foot pedal to start sewing.
- Guide the fabric steadily, maintaining consistent speed.

Using the Buttonhole Function

The Singer Prelude typically features a built-in buttonhole stitch:

- Attach the buttonhole foot.
- Mark the position of the button on your fabric.
- Follow the manual's instructions for setting the machine to buttonhole mode.
- Sew the buttonhole, ensuring the machine stitches around the marked area evenly.

Maintenance and Troubleshooting

Regular maintenance keeps your Singer Prelude running smoothly and extends its lifespan.

Cleaning and Oilings

- Turn off and unplug the machine before cleaning.
- Remove lint and dust from bobbin case, feed dogs, and under the needle plate using a small brush.
- Oil the machine at designated points as per the manual's instructions, typically every 8-10 hours of sewing.

Troubleshooting Common Issues

- Thread Breaking: Check tension settings, re-thread the machine, and ensure the needle is not bent or dull.
- Skipped Stitches: Replace the needle, ensure it is inserted correctly, and verify stitch settings.
- Machine Not Sewing Properly: Confirm the bobbin is wound and inserted correctly, and clean lint buildup.
- Uneven Stitching: Adjust tension and check fabric compatibility.

Advanced Features and Tips

Once comfortable with basic operations, explore the advanced features of the Singer Prelude.

Using Decorative Stitches

- Select a decorative stitch from the stitch selector.
- Adjust stitch length and width for desired effect.
- Practice on scrap fabric before sewing on your project.

Free Motion Sewing and Quilting

- Lower the feed dogs if your model allows.
- Attach a darning or free-motion foot.
- Practice guiding fabric manually to create custom designs.

Expert Tips for Optimal Sewing Experience

- Always use the correct needle and thread for your fabric.
- Test stitches on scrap fabric prior to working on your project.
- Keep your machine clean and well-oiled.
- Use high-quality bobbins and threads to prevent issues.
- Regularly consult the Singer Prelude manual for specific troubleshooting and maintenance instructions.

Where to Find the Singer Prelude Manual

The original Singer Prelude manual can typically be found:

- In the product packaging.
- On the official Singer website under support and manuals.
- Through authorized Singer dealers and service centers.
- As downloadable PDFs from trusted online resources.

Conclusion

The **singer prelude manual** is an invaluable resource that empowers users to operate, maintain, and troubleshoot their sewing machine effectively. By understanding the detailed instructions and features outlined in the manual, you can enhance your sewing projects, achieve professional results, and extend the lifespan of your machine. Whether you are sewing clothing, home décor, or quilting, mastering the Singer Prelude through its manual ensures a seamless and enjoyable sewing experience.

Keywords for SEO Optimization:

Singer Prelude manual, Singer Prelude sewing machine, Singer Prelude setup, Singer Prelude troubleshooting, how to use Singer Prelude, Singer Prelude features, sewing machine maintenance, beginner sewing tips, decorative stitches, free motion quilting

A Comprehensive Guide to the Singer Prelude Manual: Unlocking Your Sewing Machine's Full Potential

If you're passionate about sewing and own a Singer Prelude sewing machine, understanding how to operate and maintain it effectively is essential for achieving professional-quality results. The Singer Prelude Manual serves as an invaluable resource, offering detailed instructions, troubleshooting tips, and maintenance guidelines. Whether you're a beginner or an experienced sewer, mastering this manual ensures your sewing machine performs optimally and prolongs its lifespan.

Introduction to the Singer Prelude Sewing Machine

Before diving into the manual specifics, it's important to understand what makes the Singer Prelude sewing machine a popular choice among sewing enthusiasts. Known for its durability, ease of use, and versatile features, the Singer Prelude caters to a wide range of sewing projects—from simple hems to intricate embroidery.

Key features typically include:

- Multiple stitch options
- Adjustable stitch length and width
- Built-in buttonhole stitches
- Free arm capability
- Drop feed for quilting and free-motion sewing

Having a solid understanding of these features, facilitated by the manual, allows users to maximize their machine's potential.

Overview of the Singer Prelude Manual

The Singer Prelude Manual is a comprehensive guide designed to help users:

- Set up their sewing machine
- Select and customize stitches
- Troubleshoot common issues
- Perform regular maintenance

- Understand advanced features

Depending on the model, the manual may be a printed booklet or a digital PDF, but the core content remains consistent across versions. Familiarity with its layout and content structure can make referencing specific sections quicker and more efficient.

Getting Started: Setup and Basic Operations

Unboxing and Initial Setup

- Inspect the package: Ensure all parts, including the machine, power cord, foot pedal, accessories, and manual, are present.
- Find a suitable workspace: A flat, well-lit surface with easy access to power outlets.
- Assemble the machine: Attach the presser foot, spool pin, and other accessories as per the manual instructions.
- Threading the machine: Follow step-by-step threading diagrams to ensure proper tension and sewing quality.

Powering On and Basic Testing

- Connect the power cord and foot pedal.
- Turn on the machine using the power switch.
- Select a basic stitch (usually a straight stitch) and test on scrap fabric.
- Adjust stitch length and tension as needed.

Understanding and Using the Stitch Features

The Singer Prelude offers a variety of stitches to suit different sewing needs. The manual provides detailed instructions on selecting, customizing, and combining stitches.

Stitch Selection

- Use the stitch selector dial or buttons to choose the desired stitch pattern.
- Refer to the stitch chart in the manual to identify stitch numbers and functions.
- Test each stitch on scrap fabric before starting your project.

Adjusting Stitch Length and Width

- The manual explains how to modify stitch length (from very short to longer stitches) for seams, topstitching, or decorative purposes.
- Adjust stitch width for zigzag or decorative stitches to achieve the desired effect.
- Always test adjustments on scrap fabric to prevent mishaps.

Using Specialty Stitches

- Buttonholes: The manual offers step-by-step guidance on measuring, marking, and sewing buttonholes.
- Decorative stitches: Tips on combining stitches for embellishments.
- Reverse stitching: For reinforcing seams.

Maintaining Your Singer Prelude

Proper maintenance ensures smooth operation and extends the lifespan of your machine. Key points from the manual include:

- Cleaning: Regularly remove lint and dust from bobbin case, feed dogs, and tension discs.
- Oiling: Apply sewing machine oil to designated areas as specified; avoid over-oiling.
- Replacing needles: Change needles frequently to prevent skipped stitches and fabric damage.
- Checking tension: Regularly test and adjust tension settings to maintain stitch quality.

Troubleshooting Common Issues

The manual provides a list of common problems and solutions, which can help you quickly resolve issues without needing professional repair.

Common issues include:

- Skipped stitches: Usually caused by dull or bent needles, incorrect threading, or tension problems.
- Thread jams: Check threading path, remove tangled threads, and clean the bobbin area.
- Uneven stitches: Adjust tension or replace needles.
- Machine not sewing: Confirm power connection, foot pedal operation, and proper threading.

Troubleshooting tips:

- Always consult the detailed troubleshooting section for specific symptoms.
- Keep a record of issues and solutions for future reference.
- Regular maintenance can prevent many common problems.

Advanced Features and Tips

Once familiar with basic operations, the manual guides users through more advanced features like:

- Free-motion quilting using drop feed.
- Adjusting stitch balance and tension for specialty fabrics.
- Using twin needles for decorative effects.
- Customizing machine settings for specific projects.

Pro tips from the manual:

- Practice on scrap fabric before working on your actual project.
- Use appropriate needles and threads for different fabrics.
- Keep your machine covered or stored in a dust-free environment.

Where to Find Additional Resources

While the Singer Prelude Manual covers most essential information, additional resources can enhance your sewing experience:

- Online video tutorials demonstrating manual instructions.
- Singer customer support and authorized service centers.
- Sewing forums and communities for shared tips and project ideas.
- Upgraded manuals or digital guides for newer models.

Conclusion: Mastering Your Singer Prelude with the Manual

The Singer Prelude Manual is more than just a guide; it's a comprehensive roadmap to unlocking your machine's full potential. By understanding how to operate, troubleshoot, and maintain your sewing machine through the manual's instructions, you'll be able to take on a wide array of sewing projects with confidence. Regular consultation of the manual, combined with practice, ensures your Singer Prelude remains a reliable and versatile sewing companion for years to come.

Remember, patience and attention to detail are key. With time and experience, you'll find sewing

becomes more intuitive and enjoyable, transforming your creative visions into beautifully crafted garments and accessories. Happy sewing!

Question What is the Singer Prelude sewing machine manual used for? The Singer Prelude sewing machine manual provides instructions on how to operate, troubleshoot, and maintain the machine effectively. Where can I find the digital copy of the Singer Prelude manual? You can find the digital copy of the Singer Prelude manual on the official Singer website or authorized third-party manual repositories online. What are common troubleshooting tips in the Singer Prelude manual? Common troubleshooting tips include checking thread tension, cleaning the machine, replacing needles, and ensuring proper bobbin installation as detailed in the manual. Does the Singer Prelude manual include maintenance instructions? Yes, the manual provides maintenance guidelines such as cleaning the machine, oiling moving parts, and checking for worn components to ensure optimal performance. How do I troubleshoot threading issues in my Singer Prelude using the manual? The manual offers step-by-step guidance on correct threading procedures to prevent issues like skipped stitches or tangled threads. Can I find sewing stitch settings in the Singer Prelude manual? Yes, the manual details various stitch types, their settings, and how to adjust your machine for different sewing projects. Is the Singer Prelude manual suitable for beginners? Absolutely, the manual provides clear instructions and diagrams that are helpful for beginners learning to operate the Singer Prelude. What safety precautions are included in the Singer Prelude manual? The manual emphasizes safety tips such as unplugging the machine before maintenance, avoiding loose clothing, and keeping fingers away from moving parts. How often should I refer to the Singer Prelude manual for maintenance? It's recommended to consult the manual regularly for routine maintenance and whenever you encounter operational issues to keep your machine in good condition.

Related keywords: singer prelude sewing machine manual, singer prelude instruction guide, singer prelude user manual, singer prelude sewing machine instructions, singer prelude manual pdf, singer prelude sewing machine troubleshooting, singer prelude parts manual, singer prelude maintenance guide, singer prelude sewing machine setup, singer prelude operating instructions

Singer 316g Manual

singer 316g manual is an essential resource for anyone who owns or is considering purchasing the Singer 316G sewing machine. This manual provides comprehensive guidance on the machine's features, operation, maintenance, troubleshooting, and more. Whether you're a beginner or an experienced sewer, having the correct manual ensures you can maximize your machine's performance, troubleshoot issues effectively, and prolong its lifespan. In this detailed guide, we will explore everything you need to know about the Singer 316G manual, including how to find it, what

information it contains, and tips for optimal use.

Understanding the Singer 316G Sewing Machine

The Singer 316G is a vintage, heavy-duty sewing machine renowned for its durability and versatility. It is designed to handle a wide range of fabrics and sewing projects, making it popular among hobbyists and professional sewers alike. To operate this machine effectively, consulting the **singer 316g manual** is crucial.

What is Included in the Singer 316G Manual

The Singer 316G manual typically covers the following sections:

1. Machine Overview and Features

- Parts identification with diagrams
- Explanation of key features such as stitch options, tension control, and bobbin winding

2. Operating Instructions

- Threading the machine
- Adjusting stitch length and width
- Selecting different stitches
- Sewing techniques for various fabrics

3. Maintenance and Care

- Cleaning procedures
- Oil and lubrication points
- Replacing needles and bobbins
- Storage tips

4. Troubleshooting Guide

- Common issues and solutions
- Noise, skipped stitches, tension problems
- How to fix bobbin jams and thread breakage

5. Parts List and Diagrams

- Visual references for assembly and repairs
- Replacement part numbers

6. Safety Precautions

- Safe operation practices
- Electrical safety tips

How to Find the Singer 316G Manual

If you own a Singer 316G machine and need a manual, there are several options to locate an authentic and comprehensive copy:

- **Official Singer Website:** Singer's official site often offers downloadable manuals for various models, including vintage ones.
- **Online Marketplaces:** Platforms like eBay or Etsy frequently have original or reproduction manuals available for purchase.
- **sewing forums and communities:** Websites such as SewingPatternReview or Reddit's sewing community can be helpful for sharing resources.
- **Third-party Manual Websites:** Sites like ManualsLib or Manualsonline may host digital copies of the Singer 316G manual.

Ensure that the manual you acquire matches your specific machine model and serial number for accuracy.

Key Sections of the Singer 316G Manual Explained

1. Threading the Machine

Proper threading is crucial for smooth sewing. The manual details:

- How to thread the upper thread
- Bobbin winding and insertion
- Tension adjustment tips

2. Adjusting Stitch Length and Width

Learn how to customize stitches for different fabrics and projects:

- Selecting straight, zigzag, or decorative stitches
- Using stitch length and width dials

3. Changing Needles and Bobbins

Ensuring your machine is equipped with the right needle:

- Types of needles suitable for various fabrics
- Proper insertion techniques
- Replacing and winding bobbins correctly

4. Maintenance Routines

Regular maintenance prolongs machine life:

- Cleaning dust and lint
- Oiling points and lubrication intervals
- Storage considerations to prevent rust

5. Troubleshooting Common Problems

Identify and resolve issues such as:

- Thread bunching or breaking
- Skipped stitches
- Machine not sewing or stopping mid-operation
- Noise or vibration problems

Tips for Using the Singer 316G Effectively

- Read the Manual Thoroughly: Familiarize yourself with all sections before starting a project.
- Regular Maintenance: Clean and oil the machine regularly to keep it running smoothly.

- Use Quality Notions: Invest in good-quality needles and threads compatible with your machine.
- Practice on Scrap Fabric: Test stitches and settings on scrap pieces before working on your main project.
- Store Properly: Cover your machine when not in use to prevent dust buildup and rust.

Frequently Asked Questions about the Singer 316G Manual

1. Is the Singer 316G manual available online for free?

Yes, some websites and sewing communities offer free downloadable versions. However, ensure they are legitimate and match your machine model.

2. Can I use the manual to repair my Singer 316G?

Absolutely. The manual provides detailed diagrams and instructions for repairs and maintenance, making it a valuable resource for DIY repairs.

3. What if I can't find my manual?

If your manual is lost or incomplete, consider reaching out to vintage sewing machine repair shops or online communities where enthusiasts share scanned copies and tips.

4. Is the Singer 316G manual necessary for beginners?

Yes, especially for beginners, as it helps understand each step of operation and troubleshooting, reducing frustration and enhancing sewing experience.

Conclusion

The **singer 316g manual** is an indispensable tool for anyone looking to operate, maintain, or repair the Singer 316G sewing machine effectively. It offers detailed instructions, diagrams, and troubleshooting tips that help users achieve the best sewing results while safeguarding their investment. Whether you're a seasoned sewer or new to vintage machines, having access to the correct manual ensures you can sew confidently, troubleshoot issues with ease, and extend the life of your machine.

Remember, investing time in understanding your sewing machine through its manual not only improves your sewing projects but also enhances safety and efficiency. Keep your Singer 316G in top condition by consulting its manual regularly, and enjoy many years of reliable service.

A Comprehensive Guide to the Singer 316G Manual: Unlocking the Full Potential of Your Sewing

Machine

If you've recently acquired a Singer 316G or are considering purchasing one, understanding its features and proper operation is essential to maximize its capabilities. The Singer 316G manual serves as a vital resource, guiding users through setup, maintenance, troubleshooting, and advanced sewing techniques. In this detailed guide, we'll explore everything you need to know about the Singer 316G manual, providing step-by-step instructions, tips, and insights to ensure your sewing experience is seamless and enjoyable.

Introduction to the Singer 316G

The Singer 316G is a versatile, heavy-duty sewing machine designed for both professional and home use. Known for its durability, powerful motor, and wide range of stitch options, it is a popular choice among tailors, fashion designers, and sewing enthusiasts. Accessing and understanding the Singer 316G manual allows users to operate the machine efficiently, troubleshoot common issues, and explore advanced features.

Why the Singer 316G Manual Is Essential

The Singer 316G manual acts as your detailed roadmap to mastering your sewing machine. It provides:

- Assembly and Setup Instructions: How to properly assemble and prepare your machine for use.
- Operating Guidelines: Step-by-step instructions for selecting stitches, adjusting tension, and more.
- Maintenance Procedures: Tips for cleaning, oiling, and caring for your machine to ensure longevity.
- Troubleshooting Tips: Solutions for common problems like thread jams, skipped stitches, or motor issues.
- Accessories and Attachments: Information on compatible presser feet and other add-ons.

Having the manual at hand not only saves time but also helps prevent damage caused by improper handling.

Navigating the Singer 316G Manual: Key Sections and Features

The Singer 316G manual is typically organized into several core sections. Understanding these will help you quickly find the information you need.

- Machine Overview and Parts Identification

Before operating, familiarize yourself with the machine's components:

- Stitch selection dial
- Tension control
- Needle positioner
- Bobbin winder
- Presser foot lever
- Feed dog controls
- Power switch and foot pedal

- Setup and Installation

Guidelines for:

- Threading the machine
- Installing the bobbin
- Attaching presser feet
- Connecting the power supply

- Stitch Selection and Adjustment

Details on:

- Choosing different stitch patterns
- Adjusting stitch length and width
- Using decorative stitches

- Maintenance and Care

Includes:

- Regular cleaning routines

- Oil application points
 - Replacing needles and bobbins
 - Storage tips
-
- Troubleshooting Common Issues

A comprehensive list of problems and solutions, such as:

- Thread bunching
- Skipped stitches
- Machine not sewing properly
- Noise or vibrations

Step-by-Step Guide to Using the Singer 316G with the Manual

Assembling and Preparing Your Machine

- Unboxing and Initial Inspection: Confirm all parts are present as listed in the manual.
- Attaching the Presser Foot: Use the manual's illustrations to correctly attach the desired presser foot.
- Threading the Machine: Follow the threading diagram carefully:
 - Place the spool on the spool pin.
 - Guide the thread through the tension discs.
 - Thread the take-up lever.
 - Guide through the needle eye.
- Winding the Bobbin: Use the bobbin winder as instructed:
 - Place the bobbin on the winder pin.
 - Engage the winder mechanism.
 - Wind the thread evenly.
- Inserting the Bobbin: Insert the bobbin into the bobbin case, ensuring correct tension.

Stitch Selection and Adjustment

- Choosing a Stitch: Turn the stitch selector dial to the desired pattern, as shown in the manual.
- Adjusting Stitch Length and Width: Use the designated dials or sliders for customization.
- Using Decorative Stitches: Refer to the manual for specific settings and recommended fabric types.

Sewing Techniques

- Set the presser foot pressure as per fabric thickness.
- Use the manual's guidance on sewing different materials, from lightweight fabrics to heavy denim.
- Practice using zigzag, straight stitch, and decorative stitches to familiarize yourself with machine capabilities.

Maintenance and Troubleshooting: Pro Tips from the Manual

Routine Maintenance

- Cleaning: Remove lint and dust from the bobbin case and feed dogs regularly.
- Oiling: Apply sewing machine oil to designated points, following the manual's diagram.
- Needle Replacement: Change needles frequently to prevent skipped stitches or fabric damage.

Troubleshooting Common Problems

- Thread Bunching: Check threading path, tension settings, and needle condition.
- Skipped Stitches: Replace dull needles and verify stitch settings.
- Machine Not Moving: Ensure the foot pedal is connected properly and the motor is functioning.
- Noise or Vibration: Check for loose parts or debris inside the machine.

Accessories and Enhancements

The Singer 316G is compatible with various accessories detailed in the manual:

- Different presser feet (zipper foot, buttonhole foot, blind hem foot)
- Extension tables for larger projects

- Embroidery attachments (if compatible)
- Specialty needles for denim, leather, or stretch fabrics

Final Tips for Using Your Singer 316G

- Always refer to the Singer 316G manual before attempting repairs or adjustments.
- Practice on scrap fabric to familiarize yourself with stitch settings.
- Keep your manual in a safe, accessible place for quick reference.
- Join online forums or local sewing groups for tips and shared experiences.

Conclusion

Mastering your Singer 316G through the manual unlocks a world of creative sewing possibilities. Whether you're doing simple mending, intricate quilting, or professional tailoring, understanding each section of the Singer 316G manual ensures you operate your machine confidently and efficiently. Invest time in reading and practicing with the manual, and you'll enjoy many years of reliable service from this durable and versatile sewing machine.

Remember: Your sewing machine is an investment in your creativity?proper care, guided by the manual, guarantees it will serve you well for many projects to come.

QuestionAnswer Where can I find the official manual for the Singer 316G sewing machine? You can find the official Singer 316G manual on the Singer website under the 'Support' or 'Downloads' section, or by contacting Singer customer service for a digital or physical copy. What are the key features covered in the Singer 316G manual? The manual details features such as stitch options, thread tension adjustments, bobbin setup, maintenance instructions, and troubleshooting tips for the Singer 316G sewing machine. How do I troubleshoot common issues using the Singer 316G manual? The manual provides troubleshooting guides for issues like thread jams, skipped stitches, or motor problems, guiding users through step-by-step solutions to resolve common problems. Is there a video tutorial available for setting up the Singer 316G based on the manual? While the manual offers detailed setup instructions, many sewing communities and YouTube channels provide video tutorials that complement the manual's guidance for the Singer 316G. Can I download a PDF version of the Singer 316G manual for free? Yes, many official and third-party websites offer free PDF downloads of the Singer 316G manual. Always ensure you download from reputable sources to avoid outdated or malicious files. What maintenance routines are outlined in the Singer 316G manual? The manual recommends routine cleaning, oiling moving parts, checking needle alignment, and inspecting the bobbin area to keep the Singer 316G sewing machine in optimal condition. Does the manual include instructions for replacing parts like needles and belts on the Singer 316G? Yes, the manual provides step-by-step instructions for replacing needles, belts, and other essential parts to ensure proper functioning and safety. How detailed is the Singer 316G manual in explaining stitch

adjustments and settings? The manual offers comprehensive explanations on selecting and adjusting different stitch types, tension settings, and stitch length to customize sewing projects effectively.

Related keywords: singer 316g instructions, singer sewing machine manual, singer 316g parts, singer 316g troubleshooting, singer 316g user guide, singer 316g repair, singer 316g manual download, singer 316g manual pdf, singer sewing machine manual 316g, singer 316g maintenance

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