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› Victor 1640, 1660, 1680, 2040, 2060, 2080 Lathe Operations and Parts Manual

Victor 1640, 1660, 1680, 2040, 2060, 2080

Victor Lathe Operations and Parts Manual

Models: 1640, 1660, 1680, 2040, 2060, 2080

INTRODUCTION

This manual provides comprehensive instructions for the operation and maintenance of Victor Precision Lathe models 1640, 1660, 1680, 2040, 2060, and 2080. It covers essential topics including installation, power security control, preparation for operation, detailed operating procedures, thread cutting, routine maintenance, troubleshooting, and a complete guide to repair parts with illustrated diagrams for component identification. This document was originally published in August 1978 and contains 50 printed pages.

OPERATING MANUAL

Victor®

V-191

Taichung Machinery Works Co., Ltd.

Figure 1: Cover of the Victor Lathe Operations and Parts Manual, showing the title and models covered.

The Victor Precision Lathes (models 1640, 1660, 1680, 2040, 2060, 2080) are designed for precision machining operations. This section provides an overview of the lathe's main components and their functions, preparing the user for detailed operational procedures.

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Figure 2: Illustrated diagram of a Victor Lathe, highlighting various components with numerical labels for identification. This diagram is crucial for understanding the layout and function of the machine's parts.

Refer to the "Parts Lists" section for a detailed breakdown and identification of each numbered component shown in Figure 2.

INSTALLATION AND SETUP

Unpacking and Moving

Carefully unpack the lathe, ensuring all components are accounted for. Use appropriate lifting equipment and techniques for moving the machine to its intended location. Refer to the manual for specific weight distribution and lifting points.

Foundation and Leveling

The lathe requires a stable and level foundation to ensure accurate operation. Follow the instructions for preparing the foundation and precisely leveling the machine using the provided leveling feet and a precision level.

Power Security Control and Electrical Connection

Connect the lathe to the appropriate power source as specified in the electrical requirements section. Ensure all electrical safety features are correctly installed and functioning. Consult a qualified electrician if necessary. Verify the power security control system is operational before proceeding.

Preparation for Operation

Before initial operation, perform the following preparatory steps:

- Clean-up: Remove any protective coatings or packing materials.
- Lubrication: Apply lubricants to all designated points as per the maintenance schedule.
- Check all fasteners for tightness.
- Familiarize yourself with the designation for symbols on the name plate.

OPERATING PROCEDURES

Basic Lathe Operations

This section details the fundamental operations of the Victor Lathe. It covers:

- Spindle rotation, stop, and restart procedures.
- Operation of the jogging switch push button.
- Changing the gear system for different speeds.
- Selecting feed values (manual and automatic feed).
- Automatic stop operation.
- Adjusting the swivel slide and tailstock.

Thread Cutting

Detailed instructions for thread cutting are provided, including:

- Leadscrew operation.
- Setting up for Inch Thread System and Metric Thread System.
- Using the thread cutting indicator.
- Procedures for Mouldle D.P. Thread Cutting.

MAINTENANCE

Regular maintenance is crucial for the longevity and performance of your Victor Lathe. This section outlines the necessary procedures.

Lubrication

Follow the lubrication schedule and use recommended lubricants for all moving parts, including the headstock, gearbox, and slides. Proper lubrication prevents wear and ensures smooth operation.

Machine Adjustments

Periodically inspect and adjust the machine as needed. This includes:

- Adjustments for longitudinal-cross feed.
- Adjustments in taper wedge.
- Adjustments for cross slide and compound slide.
- Tension adjustment of V-belt.
- Adjustment for foot brake.
- Adjustment for spindle bearings.

TROUBLESHOOTING CHART

This section provides a troubleshooting chart to help diagnose and resolve common issues that may arise during the operation of your Victor Lathe. Refer to this chart for guidance before attempting any repairs.

Common Issues and Solutions

Problem	Possible Cause	Solution
Machine not starting	No power supply, emergency stop engaged, faulty wiring.	Check power connection, disengage emergency stop, inspect wiring.
Excessive vibration	Unbalanced workpiece, loose foundation bolts, worn bearings.	Balance workpiece, tighten foundation bolts, inspect and replace bearings.
Inaccurate cuts	Improper leveling, worn tools, loose gibs.	Re-level machine, replace or sharpen tools, adjust gibs.

For issues not covered in this chart, or if problems persist, contact qualified service personnel.

REPAIR PARTS AND COMPONENT IDENTIFICATION

This section contains detailed repair parts lists and functionally illustrated drawings to assist in identifying and ordering replacement components for your Victor Lathe. Each part is clearly identified to facilitate accurate maintenance and repair.

Refer to Figure 2 in the "Product Description" section for a visual overview of the lathe's components. Subsequent pages in the original manual provide detailed exploded views and corresponding parts lists.

Ordering Parts

When ordering replacement parts, always provide the model number of your lathe and the exact part number as listed in this manual to ensure compatibility.

SPECIFICATIONS

Specification	Detail
Publisher	Victor
Publication Date	January 1, 1978
Language	English
Print Length	50 pages
Applicable Models	1640, 1660, 1680, 2040, 2060, 2080

WARRANTY AND SUPPORT

Information regarding product warranty and customer support is not available within this specific manual. For warranty details or technical assistance, please refer to any accompanying documentation provided with your Victor Lathe or contact the manufacturer directly.

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

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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