

Okamoto PSG-63UAN, ACCUGAR 124N

Okamoto PSG-63UAN, ACCUGAR 124N Grinding Machine Electrical Circuit Manual

Comprehensive Guide for Electrical Troubleshooting and Parts Replacement

1. INTRODUCTION

This manual provides detailed electrical circuit information, troubleshooting procedures, and instructions for parts replacement for the Okamoto PSG-63UAN and ACCUGAR 124N grinding machines. It is intended for qualified service personnel and technicians to ensure safe and efficient maintenance and repair.

2. SAFETY INFORMATION

Always observe standard safety precautions when working with electrical machinery. Failure to do so may result in serious injury or damage to equipment.

- Disconnect power before performing any maintenance or repair.
- Ensure proper grounding of all electrical components.
- Use appropriate personal protective equipment (PPE).
- Consult wiring diagrams and schematics before making any electrical connections.
- Do not operate the machine with damaged or exposed wiring.

3. DEFINITION OF SYMBOLS USED IN FLOW CHART

This section defines the symbols used throughout the electrical flow charts in this manual. Understanding these symbols is crucial for interpreting the circuit diagrams and troubleshooting procedures correctly.

Refer to the specific flow chart diagrams for symbol legends and their corresponding meanings.

4. REPLACEMENT OF PARTS

This section details the procedures for replacing various electrical components within the grinding machine.

4.1. Replacement of Printed Circuit

Instructions for safely removing and installing printed circuit boards.

4.2. Handling of Printed Circuit Board

Guidelines for proper handling of sensitive printed circuit boards to prevent damage from static electricity or physical impact.

4.3. Replacement of Solenoid Valve

Procedure for replacing solenoid valves, including electrical disconnection and mechanical installation.

5. TROUBLESHOOTING FLOW CHART

This section provides systematic troubleshooting flow charts to diagnose and resolve common electrical issues.

5.1. Basic Flow Chart

A general troubleshooting flow chart for initial diagnosis of electrical problems.

5.2. Troubleshooting Relating to Table Start & Stop

5.2.1. Table Does Not Start

Follow this procedure if the grinding machine table fails to initiate movement.

5.2.2. Table Does Not Stop When Table Stop Button (PB4) Is Pressed

Steps to diagnose and fix issues where the table continues to move despite the stop button being activated.

5.2.3. Table Does Not Stop When the Sparkout Has Completed

Troubleshooting for situations where the table does not halt automatically after the sparkout cycle is finished.

5.3. Troubleshooting of Table Longitudinal Movements

5.3.1. Table Does Not Move Left

Diagnostic steps for when the table fails to move in the leftward direction.

5.3.2. Table Does Not Move Right

Diagnostic steps for when the table fails to move in the rightward direction.

5.4. Troubleshooting Relating to Electric Motor

Procedures for diagnosing and resolving issues related to the grinding machine's electric motor.

5.5. Troubleshooting Relating to Electric Magnetic Chuck

Guidance for troubleshooting problems with the electric magnetic chuck, including power and holding force issues.

5.6. Troubleshooting Relating to Automatic Downfeed

5.6.1. Automatic Downfeed Is Not Operated

Steps to take when the automatic downfeed function does not engage.

5.6.2. Automatic Downfeed Is Still Operated Even After the Dial Reached to Automatic Sizing Position

Troubleshooting for situations where the downfeed continues past the set automatic sizing position.

5.7. Troubleshooting Relating to Saddle Cross Feed

5.7.1. Saddle Is Not Moved to Forward Direction

Diagnostic steps for when the saddle fails to move in the forward direction.

5.7.2. Saddle Is Not Moved to Backward Direction

Diagnostic steps for when the saddle fails to move in the backward direction.

6. SPECIFICATIONS

Key specifications for the Okamoto PSG-63UAN and ACCUGAR 124N models.

Specification	Detail
ASIN	B00NCITRRO
Publisher	Okamoto
Publication Date	January 1, 2014
Language	English
Print Length	31 pages

7. WARRANTY AND SUPPORT

For information regarding product warranty or technical support, please refer to the original purchase documentation or contact Okamoto customer service directly. This manual is a technical reference and does not include warranty details.

8. MANUAL OVERVIEW

The following image displays the original table of contents from the manual, providing an overview of its structured sections and topics.

TROUBLE SHOOTING MANUAL
OF ELECTRICAL CIRCUIT
FOR
PRECISION SURFACE GRINDING MACHINE
MODEL **PSG-63UAN**
"ACCUGAR 124N"

Serial Number



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Image: Original Table of Contents from the Okamoto PSG-63UAN, ACCUGAR 124N Grinding Machine Electrical Circuit Manual.
This image outlines the sections covered, including definitions, parts replacement, and various troubleshooting topics.

