HIKOKI D13VGWW

Hikoki D13VG Drill 710W, 230V Instruction Manual

Model: D13VGWW

1. Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Hikoki D13VG 710W, 230V electric drill. Please read this manual thoroughly before using the tool to ensure proper handling and to prevent injury or damage.
The Hikoki D13VG is a powerful pistol grip drill designed for various drilling tasks in steel and wood. Its robust 710W motor and high torque output of 79 Nm make it suitable for demanding applications, including heavy carpentry and driving lag screws. Key features include a reversible function, an electronic variable speed trigger, and a durable aluminum gear housing.

2. Safety Instructions

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Keep this manual for future reference.

- **Work Area Safety:** Keep the work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators.
- **Personal Safety:** Always wear eye protection. Use appropriate personal protective equipment (PPE) such as dust masks, non-skid safety shoes, hard hats, or hearing protection when necessary. Dress properly; avoid loose clothing or jewelry. Keep hair, clothing, and gloves away from moving parts.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Store idle power tools out of the reach of children.
- **Secure Workpiece:** Always secure the workpiece firmly before drilling to prevent it from rotating or shifting during operation.

3. Components Overview

Familiarize yourself with the main parts of your Hikoki D13VG drill:

- **Keyless Chuck:** For quick and easy bit changes.
- **Trigger Switch:** Activates the drill and controls speed.
- **Lock-on Button:** For continuous operation.
- **Forward/Reverse Switch:** Changes the direction of rotation.
- **Auxiliary Side Handle:** Provides additional grip and control.
- **Depth Stop:** (If included) For consistent drilling depth.

Figure 1: Main view of the Hikoki D13VG Drill.

Figure 2: Close-up of the trigger and forward/reverse switch.

4. Setup

4.1 Attaching the Auxiliary Handle

1. Loosen the auxiliary handle by rotating it counter-clockwise.
2. Slide the handle onto the front of the drill housing.
3. Adjust the handle to a comfortable and secure position.
4. Tighten the handle by rotating it clockwise until it is firmly secured.

4.2 Installing and Removing Drill Bits

1. Ensure the drill is unplugged from the power source.
2. Rotate the front collar of the keyless chuck counter-clockwise to open the chuck jaws.
3. Insert the drill bit fully into the chuck, ensuring it is centered.
4. Rotate the front collar clockwise to tighten the chuck jaws firmly around the drill bit. Hand-tighten only; do not use tools to tighten the chuck.
5. To remove, reverse the tightening procedure.

4.3 Connecting to Power

Ensure the power switch is in the OFF position before plugging the drill into a standard 230V AC power outlet. Verify that the power source matches the voltage requirements of the drill.

5. Operating

5.1 Powering On/Off and Speed Control

- **To Start:** Press the trigger switch. The drill speed is variable depending on how far the trigger is pressed.
- **To Stop:** Release the trigger switch.
- **Continuous Operation:** For prolonged use, press the trigger switch fully and then press the lock-on button. To release, press the trigger switch again.

5.2 Forward/Reverse Operation

The forward/reverse switch is located above the trigger. Push the switch to the left for forward rotation (drilling) and to the right for reverse rotation (removing screws or jammed bits). Always ensure the drill has come to a complete stop before changing the direction of rotation.

5.3 Drilling Techniques

- **General Drilling:** Apply steady, even pressure. Do not force the drill. Allow the drill bit to do the work.
- **Wood Drilling:** Use wood-specific drill bits. For larger holes, start with a smaller pilot hole.
- **Metal Drilling:** Use high-speed steel (HSS) drill bits. Apply cutting oil to cool the bit and improve drilling efficiency, especially for harder metals. Start with a center punch to prevent the bit from wandering.
- **Lag Screw Driving:** The high torque of this drill is ideal for driving lag screws. Ensure the appropriate bit or socket adapter is used and apply firm, controlled pressure.
- **Clearing Chips:** Periodically withdraw the drill bit from the hole to clear chips and allow the bit to cool.

6. Maintenance

Regular maintenance ensures optimal performance and extends the life of your tool.

- **Cleaning:** Keep the ventilation openings of the tool clean to prevent overheating. Use a soft, damp cloth to clean the exterior. Do not use harsh chemicals or abrasive cleaners.
- **Chuck Maintenance:** Periodically clean the chuck jaws to remove dust and debris.
- **Cord Inspection:** Regularly inspect the power cord for any signs of damage, cuts, or fraying. If damaged, have it replaced by a qualified service technician.
- **Storage:** Store the drill in a dry, secure place out of reach of children and away from direct sunlight or extreme temperatures.

7. Troubleshooting

If you encounter issues with your drill, refer to the following common problems and solutions:

- **Drill does not start:**
  - Check if the power cord is securely plugged into a live outlet.
  - Ensure the power switch is not in the OFF position.
  - Verify that the circuit breaker has not tripped.
- **Loss of power or reduced speed:**
  - Ensure the power supply voltage matches the tool's requirements.
  - Check for excessive load; reduce pressure on the drill.
  - Inspect the power cord for damage.
- **Excessive vibration or noise:**
  - Ensure the drill bit is properly installed and tightened in the chuck.
  - Check if the drill bit is bent or damaged; replace if necessary.
  - Verify that the auxiliary handle is securely fastened.

For issues not covered here, or if problems persist, contact an authorized Hikoki service center.

8. Specifications

Technical data for the Hikoki D13VG Drill:

Feature	Specification
Model Number	D13VGWW
Power Input	710 W
Voltage	230 V
No-Load Speed	0 - 600 rpm
Max. Torque	79 Nm
Chuck Capacity	1.5 - 13 mm (Keyless)
Drilling Capacity (Steel)	13 mm

Feature	Specification
Drilling Capacity (Wood)	40 mm
Dimensions (L x W x H)	29 x 8 x 20 cm
Weight	3.84 kg
Special Features	Reversible, Electronic Variable Speed, Soft-grip Handle, Aluminum Gear Housing

9. Warranty and Support

For warranty information, service, or technical support, please refer to the warranty card included with your product or visit the official Hikoki website. Keep your purchase receipt as proof of purchase for any warranty claims.
Contact an authorized Hikoki service center for all repairs and genuine replacement parts to ensure the safety and performance of your tool.