DEWALT DWD016S Variable Speed Reversible Drill User Manual

Contents

DEWALT DWD016S Variable Speed Reversible Drill

VARIABLE SPEED REVERSIBLE DRILL
Congratulations! You have chosen a DEWALT tool. Years of experience, thorough product development and innovation make DEWALT one of the most reliable partners for professional power tool users.

Technical data

DWD016S		A9	KR
Voltage	V	220	220
Power input	W	380	380
No load speed	min^{-1}	0-2,600	0-2,600
Maximum drilling range steel/wood	mm	10/20	10/20
Chuck spindle thread size	UNF	1/2"x20	1/2"x20
Maximum chuck capacity	mm	10	10
Weight	kg	1.2	1.2

Fuses:	
220-240 V tools	10 Amperes, mains

Definitions: Safety Guidelines
The definitions below describe the level of severity for each signal word. Please read the manual and pay attention to these symbols.
DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury .
WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury .

CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury .
CAUTION: Used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage .Denotes risk of electric shock. Denotes risk of fire.

WARNING
To reduce the risk of injury, read the instruction manual.

General Power Tool Safety Warnings
WARNING! Read all safety warnings and instructions Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

WORK AREA SAFETY

- Keep 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.

- Powertools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

ELECTRICAL SAFETY

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.
- Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

PERSONAL SAFETY

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.
- A moment of inattention while operating power tools may result in serious personal injury.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- Prevent unintentional starting. Ensure the switch is in the off position before connecting to power source and/or battery pack, picking up or carrying the tool.
- Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

POWER TOOL USE AND CARE

- Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with

the switch is dangerous and must be repaired.

- Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the
  power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- Use the power tool, accessories and tool bits etc., in accordance with these instructions taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

SERVICE

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained. Additional Specific Safety Rules for Drills power tool by insulated gripping
surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.
clamps or other practical way to secure and support the workpiece to a stable platform.

Holding the work by hand or against your body is unstable and may lead to loss of control. safety goggles or other eye protection. Drilling operations cause chips to fly. Flying particles can cause permanent eye damage. and tools get hot during operation. Wear gloves when touching them. handles dry, clean, free from oil and grease. it is recommended to use rubber gloves. This will enable better control of the tool.

Residual Risks

In spite of the application of the relevant safety regulations and the implementation of safety devices, certain residual risks cannot be avoided.
These are:

- Impairment of hearing
- Risk of personal injury due flying particles.
- Risk of burns due to accessories becoming hot during operation.
- Risk of personal injury due to prolonged use.

Hold Use Wear Bits Keep Markings on tool

The following pictograms are shown on the tool:
Read instruction manual before use.

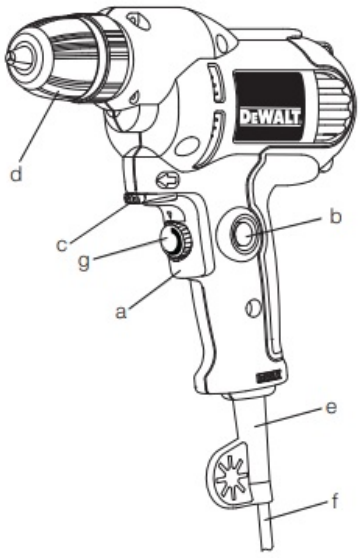
DATE CODE POSITION

Date Code, which also includes the year of manufacture, is printed into the housing surface.
Example: 2008 XX XX
Year of Manufacture

Package Contents
The package contains: 1 Drill
Instruction manual for damage to the tool, parts or accessories which may have occurred during transport. the time to thoroughly read and understand this manual prior to operation.

Description (fig. 1)

Figure 1



WARNING: Never modify the power tool or any part of it. Damage or personal injury could result.

- Variable speed trigger switch
- Lock-on button
- Forward/reverse lever
- heck
- Take
- Chuck
- Cord protector
- Cord set
- Speed dial

INTENDED USE
These heavy-duty V.S.R. drills are designed for professional drilling. DO NOT use under wet conditions or in presence of flammable liquids or gases. These heavy-duty drills are professional power tools. DO NOT let children come into contact with the tool. Supervision is required when inexperienced operators use this too

Electrical Safety
The electric motor has been designed for one voltage only. Always check that the power supply corresponds to the voltage on the rating plate. Your DEWALT power tool is double insulated in accordance with EN 60745; therefore no earth wire is required. If the supply cord is damaged, it must be replaced by a specially prepared cord available through the DEWALT service organization.
WARNING: NEVER use a light socket. NEVER connect the live (L) or neutral (N) wires to the earth pin marked E or .

Using an Extension Cable
An extension cord should not be used unless absolutely necessary. Use an approved extension cable suitable for the power input of your charger (see technical data). The minimum conductor size is 1 mm2; the maximum length

is 30 m.
Also refer to the table below When using a cable reel, always unwind the cable completely.

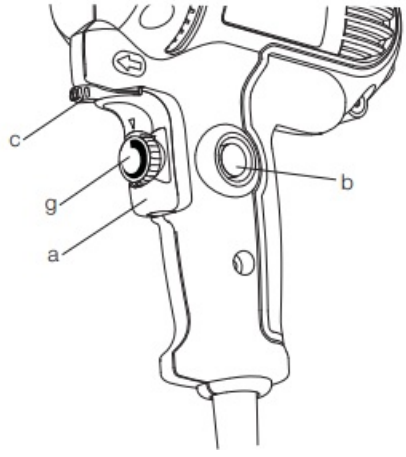
Conductor size (mm²)		Cable rating (Amperes)					
0.75		6					
1.00		10					
1.50		15					
2.50		20					
4.00		25					
Cable length (m)							
		7.5	15	25	30	45	60
Voltage	Amperes	Cable rating (Amperes)					
220-240	0 – 2.0	6	6	6	6	6	6
	2.1 – 3.4	6	6	6	6	6	6
	3.5 – 5.0	6	6	6	6	10	15
	5.1 – 7.0	10	10	10	10	15	15
	7.1 – 12.0	15	15	15	15	20	20
	12.1 – 20.0	20	20	20	20	25	–
115	0 – 2.0	6	6	6	6	6	10
	2.1 – 3.4	6	6	6	6	15	15
	3.5 – 5.0	6	6	10	15	20	20
	5.1 – 7.0	10	10	15	20	20	25
	7.1 – 12.0	15	15	20	25	25	–
	12.1 – 20.0	20	20	25	–	–	–

ASSEMBLY AND ADJUSTMENTS
WARNING: To reduce the risk of injury, turn unit off and disconnect machine from power source before installing and removing accessories, before adjusting or changing set-ups or when making repairs. Be sure the trigger switch is in the OFF position. An accidental start-up can cause injury.

OPERATION

Instructions for Use
WARNING: Always observe the safety instructions and applicable regulations. Switches (fig. 1, 2) To start the drill, depress the trigger switch; to stop the drill, release the trigger. A variable speed trigger switch (a) permits speed control—the farther the trigger is depressed, the higher the speed of the drill. For continuous operation, press and hold the variable speed switch, press the lock-on button (b), then release the switch.

Figure 2



Based on the different applications, turn around the speed dial (g) to control the maximum speed.
NOTE: Use lower speeds for starting holes without a center punch, drilling in metal or plastics, driving screws or drilling ceramics. Higher speeds are better for drilling wood and composition boards and using abrasive and polishing accessories. The forward/reverse lever (c) is used for withdrawing bits from tight holes and removing screws. It is located above the trigger switch. To reverse the motor, release the trigger switch FIRST and then push the lever to the right. After any reversing operations, return lever to forward position. To stop continuous operation, press the switch briefly and release it. Always switch the tool off when work is finished and before unplugging.

Drilling
WARNING: To reduce the risk of personal injury, ALWAYS ensure workpiece is anchored or clamped firmly. If drilling thin material, use a wood “back-up” block to prevent damage to the material.

1. Use sharp dril bits only. For WOCD, use twist dil bits, spade bits, power auger bits, or hole sews. For METAL use twist croots hole saws.
2. Aleys godly cressure in a stre ont ine win the bit. Use enough pressure to keep dril bling, but do not push hard enough to stal the motor or deflect the bit.
3. Hold tool firmly with both hands to control the twisting action of the drill.
4. IF DRILL STALLS, it is usually because it is being used. RELEASE TRIGGER IMMEDIATELY, remove bit from work, and determine cause of staling. DO NOT CLICK TRIGGER ON AND OFF IN AN ATTEMPT TO START A STALLED DRILL – THIS CAN DAMAGE THE DRILL.
5. Tol material, reduce pressure on dill and ease the on bot of the hole.
6. Keep the motor running when puling the bit back out of a driled hole. This will help prevent jamming.
7. With variable speed drils there is no need to center punch theg the trigger harder when the hole second out.

DRILLING IN METAL
Use a cutting lubricant when driling metals. The exceptions are cast iron and brass which should be chilled dry.
NOTE: Large (6 mm) holes in steel can be made easier if a pilot hole (3 mm) is driled first. Keyless chuck (fig. 3, 4) The DWD018S features a keyless chuck (d). To Insert a drill bit or other accessory, follow the steps listed below.

1. Open the chuck by turning the sleeve (d) counterclockwise and insert the bit shank.
2. Tighten firmly by tuming the sleeve clockwise. To release the bit, turn the chuck counterclockwise in just one hole, then loosen the chuck by hand.

REMOVAL OF KEYLESS CHUCK (FIG. 3)
Tighten the chuck around the shorter end of a hex key (not supplied) of 1/4* (5 mm) or greater size. Using a soft hammer, strike the key sharply in the counterclockwise direction when viewed from the tront of the tool. This will loosen the chuck so that & can be removed by hand.

Figure 3

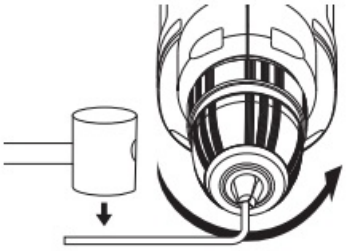
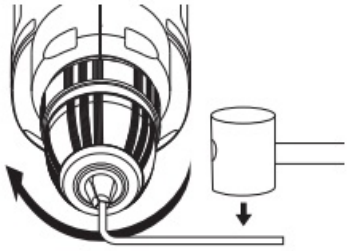


Figure 4



KEYLESS CHUCK INSTALLATION (FIG. 4)
Screw the chuck on by hand as far as it wil go. Insert the of 1/4* (6 mm) or greater size and strike.

MAINTENANCE
Your DEWALT power tool has been designed to cooler of maintenance. Continuous satistfactory operation debates toot trope too care at toy se bode A way, one de the connect machine from power source before before so justing or changing set-ups or when me ine repers. Be sure the bigger switch is in the OFF position. An accidental start-up can cause injury.

DRILLING IN WOOD
Stert dnine with slow power while applying firm pressure on the tool. Holes in wood con be with the same twist dills used for metal. These bits may overheat unless puled out frequently to clear chips from the futes Work that is apt to spinter should be backed up with a block of wood.

Motor Brushes
DEWALT uses an advanced brush system which automatically stops the drill when the brushes wear out. This prevents serious damage to the motor. New brush assemblies are available at authorized DEWALT service centers. Always use identical replacement parts.

Lubrication
Your power tool requires no additional lubrication.

Cleaning
WARNING: Blow dirt and dust out of the main housing with dry air as often as dirt is seen collecting in and around the air vents. Wear approved eye protection and approved dust mask when performing this procedure.

WARNING: Never use solvents or other harsh chemicals for cleaning the non-metallic parts of the tool. These chemicals may weaken the materials used in these parts. Use a cloth dampened only with water and mild soap. Never let any liquid get inside the tool; never immerse any part of the tool into a liquid.

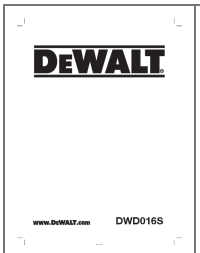
Optional Accessories

WARNING: Since accessories, other than those offered by DEWALT, have not been tested with this product, use of such accessories with this tool could be hazardous. To reduce the risk of injury, only DEWALT, recommended accessories should be used with this product.

Consult your dealer for further information on the appropriate accessories.
CAUTION: To reduce the risk of injury, the following accessories should be used only in sizes up to the maximums shown in the table below.

MAXIMUM RECOMMENDED CAPACITIES
Drill capacity 10mm
R.P.M. 0-2,600
Bits, metal drilling 10mm
Wood, flat boring 15mm
Hole saws 20mm

Documents / Resources



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DWD016S Variable Speed Reversible Drill, DWD016S, Variable Speed Reversible Drill, Speed Reversible Drill, Reversible Drill, Drill

References

- **Manual-Hub.com - Free PDF manuals!**
- **User Manual**