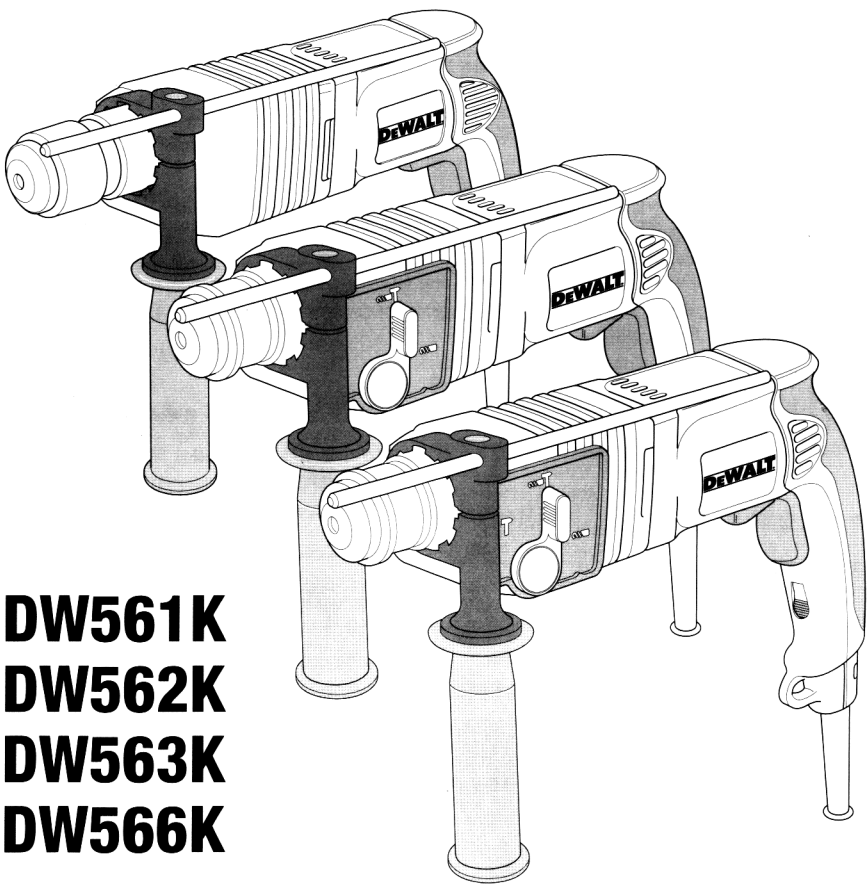


DEWALT

High Performance Industrial Tools & Accessories



DW561K DW562K DW563K DW566K

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This manual is applicable for -A9, -XD & -KR

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579908-00

DW561K / DW562K / DW563K / DW566K Heavy Duty Rotary Hammer

Technical Data

Rotary Hammer	DW561K	DW562K	DW563K	DW566K
Power input	W 650	650	650	650
No load speed	RPM 1,150	1,150	0-1,150	0-1,150
Load speed	RPM 820	820	0-820	0-820
Impact energy	J 2.4	2.4	2.4	2.4
Impact rate	BPM 4,100	4,100	0-4,100	0-4,100
Max. drilling capacity	mm 22	22	22	24
-concrete	mm 22	22	22	24
-wood	mm 30	N.A.	30	30
-mild steel	mm 13	N.A.	13	13
Chiselling	No	No	No	Yes
Core drilling capacity	mm —	—	—	65
Tool holder	SDS-plus®	SDS-plus®	SDS-plus®	SDS-plus®
Collar diameter	mm 43	43	43	43
Weight	Kg 2.3	2.2	2.3	2.3

Note: This user manual may also cover more than one catalogue number within this product group. Refer to your rating plate for details of your product.

CE Declaration of Conformity

DW561K/DW562K
DeWALT declares that these Power Tools have been designed in compliance with: 98/37/EEC, 89/336/EEC, 73/23/EEC, EN 50144, EN 55014-2, EN 55014, EN 61000-3-2 & EN 61000-3-3.

Level of sound pressure according to 86/1188/EEC & 98/37/EEC, measured according to EN 50144:

DW561K/DW562K	L _{WA} (sound pressure)	dB(A)*	97
L _{WA} (acoustic power)			105

*at the operator's ear

DW563K/DW566K
DeWALT declares that these Power Tools have been designed in compliance with: 89/336/EEC, 89/336/EEC, 73/23/EEC, EN 50144, EN 55104, EN 55104, EN 61000-3-2 & EN 61000-3-3.

Level of sound pressure according to 86/1188/EEC & 98/392/EEC, measured according to EN 50144:

DW563K/DW566K	L _{WA} (sound pressure)	dB(A)*	97
L _{WA} (acoustic power)			105

*at the operator's ear

Take appropriate measures for the protection of hearing if the sound pressure of 85 dB(A) is exceeded.

Weighted root mean square acceleration value according to EN 50144:

DW561K/DW562K/DW563K/DW566K	10 m/s²
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Powerful high frequent interference may cause speed oscillations up to 20%. These, however, disappear as soon as the interference is suppressed.

Director Engineering and Product Development
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Safety Instructions
When using power tools, always observe the safety regulations applicable in your country to reduce the risk of fire, electric shock, personal injury and material damage. Read the following safety instructions before attempting to operate this product. Keep these instructions in a safe place!

The following symbols are used throughout this manual:

⚠ Donates risk of personal injury, loss of life or material damage to the tool in case of non-observance of the instructions in this manual.

⚡ Denotes risk of electric shock.
Fire hazard.

1. **Keep work area clean.** Cluttered areas and benches can cause accidents.

2. **Consider work area environment.** Do not expose power tool to humidity. Keep work area well lit (250-300 Lux). Do not use Power Tools in the presence of inflammable liquids or gases.

3. **Keep children away.** Do not let children come into contact with the tool or extension cord. Keep all people away from the work area.

4. **Dress properly.** Do not wear loose clothing or jewelry. They can be caught in moving parts. Preferably wear rubber gloves and non-slip footwear when working outdoors. Wear protective hand covering to keep long hair out of the way. When working outdoors, preferably wear suitable gloves and non-slip footwear.

5. **Personal Protection.** Always use safety glasses. Everyday eyeglasses only have impact resistant lenses, they are not safety glasses. Use a face or dust mask whenever the operations may produce dust or flying particles. If these particles might be considerably hot, also wear a heat-resistant apron. Wear ear protection whenever the sound level seems uncomfortable, i.e. if the sound pressure stated in this manual exceeds 85 dB(A).

6. **Guard against electric shock.** Prevent body contact with earthed surfaces (e.g. pipes, radiators, cookers and refrigerators). For use under extreme conditions (e.g. high humidity, when metal swarf is being produced, etc.) electric safety can be improved by inserting an isolating transformer or an earth-leakage circuit-breaker.

7. **Do not overreach.** Keep proper footing and balance at all times.

8. **Stay alert.** Watch what you are doing. Use common sense. Do not operate the tool when you are tired.

9. **Secure workpiece.** Use clamps or a vice to hold the workpiece. It is safer and it frees both hands to operate the tool.

10. **Connecting dust extraction equipment.** If devices are provided for the connection of dust extraction and collection ensure these are connected and properly used, especially in confined areas.

11. **Remove adjusting keys and wrenches.** Always check that adjusting keys and wrenches are removed from the tool before switching on.

12. **Extension cords for outdoor use.** When the tool is used outdoors, only use extension cords intended for outdoor use and marked accordingly. Before use, inspect the extension cable and replace if damaged.

13. **Use appropriate tool.** The intended use is laid down in this instruction manual. Do not force small tools or attachments to do the job of a heavy-duty tool. The tool will do the job better and safer at the rate for which it was intended. Do not force the tool.

⚠ **Warning!** The use of any accessory or attachment or performance of any operation with this tool, other than those recommended in this instruction manual may present a risk of personal injury.

14. **Check for damaged parts.** Before using the tool, carefully check it for damage to ensure that it will operate properly and perform its intended function. Check for misalignment and secure of moving parts, breakage of parts and any other conditions that may affect its operation. Have damaged guards or other defective parts repaired or replaced as instructed. Do not use the tool if the switch is defective. Have any damaged or defective parts replaced by an authorized repair agent. Never attempt any repairs yourself.

15. **Disconnect tool.** Switch off and wait for the tool to come to a complete standstill before leaving it unattended. Unplug the tool when not in use, before servicing or changing accessories.

16. **Avoid unintentional starting.** Do not carry the plugged-in tool with a finger on the switch. Be sure that the switch is released when plugging in.

17. **Do not abuse cord.** Never carry the tool by its cord or yank it to disconnect from the socket. Keep the cord away from heat, oil and sharp edges.

18. **Store idle tools.** When not in use, power tools must be stored in a dry place and locked up securely, out of reach of children.

19. **Maintain tools with care.** Keep the tools in good condition and clean for better and safer performance. Follow the instructions for maintenance and changing accessories. Inspect the tool cords at regular intervals and, if damaged, have them repaired by an authorized repair agent. Inspect the extension cords periodically and replace them if damaged. Keep all controls dry, clean and free from oil or grease.

20. **Have your tool repaired by an authorized repair agent.** This Power Tool is in accordance with the relevant safety regulations. To avoid danger, electric appliances must only be repaired by qualified technicians.

21. **Keep your drill bits sharp for best and safest performance.** When fitting and changing accessories, always use the instructions supplied with the accessory.

22. Always use the insulated front handle.

23. Should your hammer drill develop a fault, do not try to fix it yourself, but take it to one of our authorized repair agents.

24. Use clamps or a vice to hold workpiece, if possible.

25. Make sure the power switch is not "on" before you plug in. Always switch off before you plug your hammer drill down.

26. Hold your hammer drill firmly in both hands.

27. **Do not force your hammer drill** — it will do a better and safer job at the speed for which it was designed.

28. **Hold tool with insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.

29. **Do not use chisels in any of the rotation modes, i.e. rotary drilling and hammer drilling modes.** Chisels may jam causing loss of control.

30. **Wear gloves when handling hammer bits and tools.** Hammer bits and tools get hot during operation. Gloves and frequent rest periods will reduce risk of vibration damage to hands and arms.

31. **Keep hands and body from between the tool and wall or post, etc.,** to avoid being crushed by the tool should it twist unexpectedly if the bits binds.

⚠ **Warning:** Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks and cement and other masonry products, and
- Arsenic and chromium from chemically-treated lumber (CCA).

Labels on your tool
They may include the following symbols:

V volts
A Amperes
Hz Hertz
W Watts
Min Minutes
~ Alternating current
— Direct current
n No load speed
Ⓜ Class II Construction
Ⓧ Earthing terminal
⚠ Safety alert symbol
.../min Revolutions or reciprocation per minute
.../bpm Beats per minute

Save these instructions!
Double Insulation
The tool is double insulated according with EN 50144. Double insulation means that all the external metal parts are electrically insulated from the mains power supply. This is done by placing insulated barriers between the electrical and mechanical components so as to making unnecessary for the tool to be earthed. **NOTE:** Double insulation does not take the place of normal safety precautions when operating this tool. The insulation system is for added protection against injury resulting from a possible electrical insulation failure within the tool.

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.

⚠ **Warning:** Never connect the live (L) or neutral (N) wires to the earth pin marked E or Ⓧ.

Using an Extension Cable
An extension cable should not be used unless absolutely necessary. Use of an improper extension cable could result in a risk of fire and electric shock. If an extension cable must be used, use only those that are approved by the country's Electrical Authority. Make sure that extension cord is in good condition before using. Always use the cord that is suitable for the power input of your charger (see technical data on name plate). The minimum conductor size is 1.5mm².

When using a cable reel, always unwind the cable completely.

Description (Fig. A)
Your DeWALT rotary hammer has been designed for professional hammer drilling applications.

- On/off switch (DW561K / DW562K only); variable speed on/off switch (DW563K / DW566K only)
- Lock-on button
- Mode selector (DW561K, DW563K, DW566K only)
- Side handle
- Depth adjustment rod
- Tool holder
- Dust cover
- Locking sleeve

Torque Limiting Clutch
These tools are equipped with a torque limiting clutch that reduces the maximum torque reaction transmitted to the operator in case of jamming of a drill bit. This feature also prevents the gearing and electric motor from stalling. The torque limiting clutch has been factory-set and cannot be adjusted.

Assembly and Adjustment
⚠ Prior to assembly and adjustment always unplug the tool.

Selecting the Operation Mode (DW561K, DW563K & DW566K only) (Fig. B)
The rotary hammer drill can be used in two (DW561K / DW563K) or three (DW566K) operating modes (yet DW562K is designed exclusively for hammer drilling only):

Ⓜ Rotary drilling: for screwdriving, drilling into steel, wood and plastics.

Ⓧ Hammer drilling: simultaneous rotating and impacting for concrete and masonry drilling.

Ⓨ Hammer only with spindle lock (DW566K only): Impact only — for light chipping, chiseling and demolition applications.

- Select the required operating mode by rotating the mode selector (4) towards the symbol on the gear housing.
- For screwdriving, refer to section "Instructions for use".

Inserting and Removing SDS-Plus® Accessories (Fig. C)

Your rotary hammer drill uses SDS-Plus® accessories (refer to the inset in fig. B for a cross-section of an SDS-Plus bit shank).

⚠ Unplug the drill before attaching or changing bits or accessories.

- Clean and grease the bit shank.
- Insert the bit shank into the tool holder (7).
- Push the bit down and turn it slightly until it fits into the slots.

• Pull on the bit to check if it is properly locked. The hammering function requires the bit to be able to move axially several centimeters when locked in the tool holder.

- To remove a bit pull back the tool holder locking sleeve (9) and pull out the bit.

Fitting the Side Handle (Fig. D)

The side handle (5) can be fitted to suit both right-handed and left-handed users.

⚠ Always use the tool with the side handle properly assembled (refer to the inset in fig. C).

• Loosen the side handle.

• For RH-users, slide the side handle clamp over the collar behind the tool holder, handle at the left.

• For LH-users, slide the side handle clamp over the collar behind the tool holder, handle at the right.

• Rotate the side handle to the desired position and tighten the handle.

Setting the Drilling Depth (Fig. E)
• Insert the required drill bit.
• Slacken the side handle (5).
• Fit the depth adjustment rod (6) through the hole in the side handle clamp.
• Adjust the drilling depth as shown.
• Tighten the side handle.

Forward/Reverse Slider (DW563K & DW566K only) (Fig. A)

- Push the forward/reverse slider (2) to the LH-side for forward (FH) rotation.
- Push the forward/reverse slider (2) to the RH-side for reverse (RH) rotation.
- Move the forward/reverse slider (2) to the central position to lock the switch when changing accessories, or when storing or transporting the tool.

⚠ Always wait until the motor has come to a complete standstill before changing the direction of rotation.

Replacing the Dust Cover (Fig. C)
The dust cover (8) prevents dust ingress into the mechanism. Replace a worn dust cover immediately.

• Pull back the tool holder locking sleeve (9) and pull the "live" wire dust cover (8) out.

- Fit the new dust cover.
- Release the tool holder locking sleeve.

Fitting the Chuck Adapter & Chuck (DW561K / DW563K / DW566K only)

- Unplug the tool.
- Screw the keyed chuck onto the threaded end of the chuck adapter.
- Insert the connected chuck and adapter in the tool as though it were a standard SDS-Plus® bit.
- Always tighten the accessory into the keyed chuck using all three holes.
- To remove the chuck, proceed as for removing a standard SDS-Plus® bit.

⚠ Never use the keyed chuck in hammer drilling mode.

Instruction for Use
⚠ Always observe the safety instructions and applicable regulations.

• Be aware of the location of pipework and wiring.

• Apply only a gentle pressure to the tool (approx. 2-3 kg). Excessive force does not speed up drilling but decreases tool performance and may shorten tool life.

- Do not drill or drive too deep to prevent damage to the dust cover.

Switching On And Off (Fig. A)

• To run the tool, press the on/off switch (1). For DW563K & DW566K, the on/off switch serves the variable speed control as well. The pressure exerted on the variable speed switch determines the tool speed.

• For continuous operation, press and hold down the switch (1), press the lock-on button (3) and release the switch.

• To stop the tool in continuous operation, press the switch briefly and release it. Always switch off the tool when work is finished and before unplugging.

Hammer Drilling (Fig. A)

- Select the hammer drilling mode (for DW561K / DW563K / DW566K only).
- Insert the appropriate SDS-Plus® bit. For best results use high quality carbide-tipped bits.
- Mark the spot where the hole is to be drilled.
- Press the tool against the workpiece.

• Switch the tool on by pressing the on/off switch (1). The hammer mechanism should run smoothly and the tool should not bounce. If necessary, increase the pressure on the switch.

Rotary Drilling (DW561K / DW563K / DW566K only) (Fig. A)

- Select the rotary drilling mode (for DW561K / DW563K / DW566K only).
- Proceed as described for hammer drilling. Special SDS-Plus® adapters with threaded sections are available for use with standard 10 or 13mm chucks to enable straight Shank bits to be used.

⚠ Never use standard chucks in the hammer drilling mode.

Screwdriving (DW561K / DW563K / DW566K only) (Fig. A)

- Select the rotary drilling mode (for DW561K / DW563K / DW566K only).
- Select the direction of rotation (for DW563K / DW566K only)
- Insert the special SDS-Plus® screwdriving adapter for use with hexagonal screwdriver bits.
- Insert the appropriate screwdriver bit into the adapter. When driving slotted head screws always use bits with a finer scribe edge.

• Gently press the on/off switch (1) to prevent damage to the screw head. In reverse (LH) rotation he tool speed is automatically reduced for easy screw removal.

• When the screw is flush with the workpiece, release the variable speed switch to prevent the screw head from penetrating into the workpiece.

Chipping and Chiselling (DW566K only)

- To switch from hammer drilling to chiselling, first insert the SDS-Plus® chisel and check if it is properly locked.
- When switching from hammer drilling mode to chiselling mode, turn the chisel to the desired position. If you find resistance during mode change, turn the chisel slightly to engage the spindle lock.

• The hammer is only for light chiselling applications.

• The forward/reverse switch (2) must be in the forward position when chiseling (in reverse the unit does not reach full power).

Handy Hints
Drilling

• Be sure the material to be drilled is anchored or clamped firmly. If drilling thin material, use a wood "back-up" block to prevent damage to the material.

• Always apply pressure in a straight line with the bit. Use enough pressure to keep the bit biting but not so much as to stall the motor or deflect the bit.

• Hold the drill firmly to control its twisting action.

• **IF DRILL STALLS**, it is usually because it is being overloaded or improperly used. **DO NOT CLICK THE TRIGGER OF A STALLED DRILL OFF AND ON IN AN ATTEMPT TO START IT. DAMAGE TO THE DRILL CAN RESULT.**

• To minimize stalling on breakthrough by reducing pressure and slowly drawing through the last part of the hole.

- Keep the motor running while pulling the bit out of a drilled hole. This will help reduce jamming.

• With variable speed drills (DW563K / DW566K only), there is no need to center punch the point to be drilled. Use a slow speed to start the hole and accelerate by squeezing the trigger harder when the hole is deep enough to drill without the bit skipping out.

Drilling in Metal

- An "SDS shank to round shank" adapter chuck is required.

• Select the rotary drilling mode (for DW561K / DW563K / DW566K only).

• Start drilling with slow speed and increase to full power while applying firm pressure on the tool. A smooth even flow of metal chips indicates the proper drilling rate.

• Use a cutting lubricant when drilling metals. The exceptions are cast iron and brass which should be drilled dry. The lubricants that work best are sulfurized cutting oil or card oil. Bacon grease will also serve the purpose.

• Large holes (8 - 13mm) in steel can be made easier if a pilot hole (4 - 5mm) is drilled first.

Drilling in Wood

• An "SDS shank to round shank" adapter chuck is required.

• Select the rotary drilling mode (for DW561K / DW563K / DW566K only).

• Start drilling with slow speed and increase to full power while applying firm pressure on the tool.

• Holes in wood can be made with the same twist drills used for metal. These bits may overheat unless pulled out frequently to clear chips from the flutes.

• Work that is apt to splinter should be backed up with a block of wood.

Drilling in Masonry

• Use carbide tipped bits rated for percussion drilling and be certain that the bit has adequate carbide on the tip.

• Ensure that the rotary hammer mode is selected (for DW561K / DW563K / DW566K only).

• Use a constant and firm force on the tool to drill most effectively. A smooth, even flow of dust indicates the proper drilling rate.

General

• Press bit against workpiece then switch the hammer on.

• On starting the hammer-drilling function, the hammer mechanism may not set instantaneously. The hammer mechanism should run smoothly and the hammer should not bounce. Should it bounce, press the hammer slightly harder.

• The tool will do the job better and safer at the rate for which it was intended. Do not force the tool.

• Never drill too deep that the rubber seal (8) on the tool holder gets damaged. Worn rubber seal should be replaced as they are intended to prevent dirt ingress into mechanism.

• A special SDS-plus® adapter is available as an option to allow you to utilize standard 10 or 13mm chucks to fit your cylindrical drill/screwdriver bits.

⚠ **Warning:** When chuck adapter is fitted, the drill is not suitable for hammering action.

• Use sharp drill bits only.

• Run the drill very slowly, using light pressure (approx. 2-3 kg), until the hole is started enough to keep the drill bit from slipping out of it.

• Make sure the switch turns drill on and off.

⚠ **WARNING:** It is important to support the tool properly and to hold the drill firmly to prevent loss of control, which could cause personal injury.

⚠ Do not use this tool to mix or pump easily combustible or explosive fluids (benzene, alcohol, etc.).

