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INSTRUCTION MANUAL
GUIDE D'UTILISATION
MANUAL DE INSTRUCCIONES

DEWALT®

D25712, D25721, D25723 1-7/8" (48 mm) SDS Max Hammer; D25761, D25763 2" (52 mm) SDS Max Hammer; D25871, D25891 Chipping Hammer
Marteau SDS Max D25712, D25721, D25723 48 mm (1 7/8 po); Marteau SDS Max D25761, D25763 52 mm (2 po); Marteaux burineur D25871, D25891
Martillo SDS Max de 48 mm (1-7/8") D25712, D25721, D25723; Martillo SDS Max de 52 mm (2") D25761, D25763; Martillos cincelador D25871, D25891

INSTRUCTIVO DE OPERACIÓN, CENTROS DE SERVICIO Y PÓLIZA DE GARANTÍA. ADVERTENCIA: LEÁSE ESTE INSTRUCTIVO ANTES DE USAR EL PRODUCTO.

DeWALT Industrial Tool Co., 701 East Joppa Road, Towson, MD 21286
(MAR14) Part No. N392152 D25712, D25721, D25723, D25761, D25763, D25871, D25891
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The following are trademarks for one or more DeWALT power tools: the yellow and black color scheme, the "D" shaped air intake grill, the array of pyramids on the handgrip, the kit box configuration, and the array of lozenge-shaped humps on the surface of the tool.

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.

NOTICE: indicates a practice **not related to personal injury** which, if not avoided, **may** result in **property damage**.

IF YOU HAVE ANY QUESTIONS OR COMMENTS ABOUT THIS OR ANY DEWALT TOOL, CALL US TOLL FREE AT: 1-800-4-DEWALT (1-800-433-9258).



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

General Power Tool Safety Warnings



WARNING! Read all safety warnings and all 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.

1) 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.** Power tools 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.

2) 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 ground fault circuit interrupter (GFCI) protected supply.** Use of a GFCI reduces the risk of electric shock.

3) 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.

4) 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.

f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) **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.

5) 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 Safety Instructions for Rotary Hammers

- Wear ear protectors.** Exposure to noise can cause hearing loss.
- Use auxiliary handle(s), if supplied with the tool.** Loss of control can cause personal injury.
- Hold power tool by insulated gripping surfaces 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 could give the operator an electric shock.
- Use 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.
- Wear safety goggles or other eye protection.** Hammering operations cause chips to fly. Flying particles can cause permanent eye damage. Wear a dust mask or respirator for applications that generate dust. Ear protection may be required for most applications.
- Keep a firm grip on the tool at all times.** Do not attempt to operate this tool without holding it with both hands. Operating this tool with one hand will result in loss of control. Breaking through or encountering hard materials such as re-bar may be hazardous as well. Tighten the side handle securely before use.
- Do not operate this tool for long periods of time.** Vibration caused by hammer action may be harmful to your hands and arms. Use gloves to provide extra cushion and limit exposure by taking frequent rest periods.
- Do not recondition bits yourself.** Chisel reconditioning should be done by an authorized specialist. Improperly reconditioned chisels could cause injury.
- Wear gloves when operating tool or changing bits.** Accessible metal parts on the tool and bits may get extremely hot during operation. Small bits of broken material may damage bare hands.
- Never lay the tool down until the bit has come to a complete stop.** Moving bits could cause injury.
- Do not strike jammed bits with a hammer to dislodge them.** Fragments of metal or material chips could dislodge and cause injury.
- Keep the power cord away from the rotating bit.** Do not wrap the cord around any part of your body. An electric cord wrapped around a spinning bit may cause personal injury and loss of control.
- Air vents often cover moving parts and should be avoided.** Loose clothes, jewellery or long hair can be caught in moving parts.
- An extension cord must have adequate wire size (AWG or American Wire Gauge) for safety.** The smaller the gauge number of the wire, the greater the capacity of the cable, that is 16 gauge has more capacity than 18 gauge. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. When using more than one extension to make up the total length, be sure each individual extension contains at least the minimum wire size. The following table shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

		Minimum Gauge for Cord Sets				
Ampere Rating		Volts	Total Length of Cord in Feet (meters)			
		120V	25 (7.6)	50 (15.2)	100 (30.5)	150 (45.7)
		240V	50 (15.2)	100 (30.5)	200 (61.0)	300 (91.4)
More Than	Not More Than	AWG				
0	6		18	16	16	14
6	10		18	16	14	12
10	12		16	16	14	12
12	16		14	12	Not Recommended	

▲ WARNING: ALWAYS use safety glasses. Everyday eyeglasses are NOT safety glasses. Also use face or dust mask if cutting operation is dusty. ALWAYS WEAR CERTIFIED SAFETY EQUIPMENT:

- ANSI Z87.1 eye protection (CAN/CSA Z94.3),
- ANSI S12.6 (S3.19) hearing protection,
- NIOSH/OSHA/MSHA respiratory protection.

▲ WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California 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.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

▲ Avoid prolonged contact with dust from power sanding, sawing, grinding, drilling, and other construction activities. Wear protective clothing and wash exposed areas with soap and water. Allowing dust to get into your mouth, eyes, or lay on the skin may promote absorption of harmful chemicals.

▲ WARNING: Use of this tool can generate and/or disperse dust, which may cause serious and permanent respiratory or other injury. Always use NIOSH/OSHA approved respiratory protection appropriate for the dust exposure. Direct particles away from face and body.

▲ WARNING: Always wear proper personal hearing protection that conforms to ANSI S12.6 (S3.19) during use. Under some conditions and duration of use, noise from this product may contribute to hearing loss.

- The label on your tool may include the following symbols. The symbols and their definitions are as follows:

V.....volts	A.....amperes
Hz.....hertz	W.....watts
minminutes	~ or AC.....alternating current
== or DC.....direct current	⎓ or AC/DC.....alternating or direct current
Ⓛ.....Class I Construction (grounded)	no.....no load speed
Ⓜ.....Class II Construction (double insulated)	n.....rated speed
.../minper minute	Ⓧ.....earthing terminal
IPM.....impacts per minute	▲.....safety alert symbol
SPMstrokes per minute	BPM.....beats per minute
	RPM.....revolutions per minute
	sfpm.....surface feet per minute

Motor

Your DeWALT tool is powered by a DeWALT-built motor. Be sure your power supply agrees with the nameplate markings. Voltage decrease of more than 10% will cause loss of power and overheating. All DeWALT tools are factory tested.

COMPONENTS (Fig. 1)

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

- | | |
|--|---|
| A. Trigger switch (D25712, D25721, D25723, D25761, D25763) | D. Main handle |
| On/off rocker switch (D25871, D25891) | E. SHOCKS Active Vibration Control® |
| B. Lock-on slider (D25712, D25721, D25723, D25761, D25763) | F. Mode selector |
| C. Side handle | G. Electronic speed and impact control dial |
| | H. Clamp wheel |
| | I. Rear side handle position |

INTENDED USE

These heavy-duty rotary hammers have been designed for professional hammerdrilling and chipping at various work sites (i.e., construction sites). **DO NOT** use under wet conditions or in presence of flammable liquids or gases.

These heavy-duty rotary hammers are professional power tools. **DO NOT** let children come into contact with the tool. Supervision is required when inexperienced operators use this tool.

ASSEMBLY AND ADJUSTMENTS

▲ WARNING: To reduce the risk of injury, turn unit off and disconnect it from power source before installing and removing accessories, before adjusting or when making repairs. An accidental start-up can cause injury.

Side Handle (Fig. 2-4)

D25712, D25721, D25723, D25761, D25763

▲ WARNING: To reduce the risk of personal injury, ALWAYS operate the tool with the side handle properly installed and securely tightened. Failure to do so may result in the side handle slipping during tool operation and subsequent loss of control. Hold tool with both hands to maximize control.

The side handle clamps to the front barrel (collar) and may be rotated 360° to permit right- or left-hand use. For operating convenience, the side handle can be installed in front or rear positions.

TO MOUNT IN FRONT POSITION (FIG. 2)

- Unscrew the side handle (C) and disassemble the side handle clamp (J).
- Snap the steel ring (K) over the collar (L) behind the tool holder (M). Squeeze both ends of the steel ring together. Mount the bushing (N) and insert the pin (O).
- Slide the side handle clamp (J) onto the bushing (N) while keeping the pin (O) centered. Lightly screw the clamp wheel (H) onto the bushing (N)—do not tighten.
- Screw the side handle (C) into the clamp wheel (H) and tighten.
- Rotate the side handle mounting assembly to the desired position. For hammerdrilling horizontally with a heavy drill bit, place the side handle assembly at an angle of approximately 20° to the tool for optimum control.
- Lock the side handle mounting assembly in place by securely tightening the clamp wheel (H) so that the assembly will not rotate.

TO MOUNT IN REAR POSITION (FIG. 3)

- Unscrew the side handle (C) and remove it from the side handle mounting assembly. Leave the side handle mounting assembly in the front position.
- Screw the side handle directly into one of the rear side handle positions (I) on either side of the tool.

D25871, D25891 (FIG. 4)

- Unscrew the D-shaped handle knob (Q).

FIG. 1

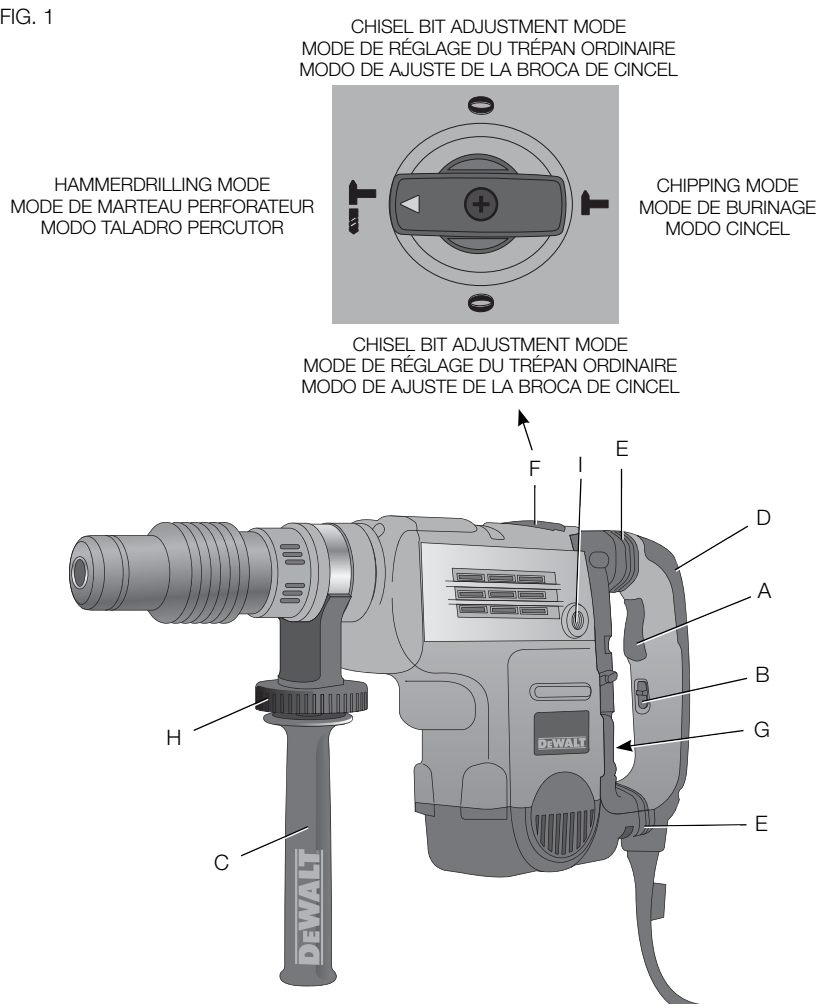
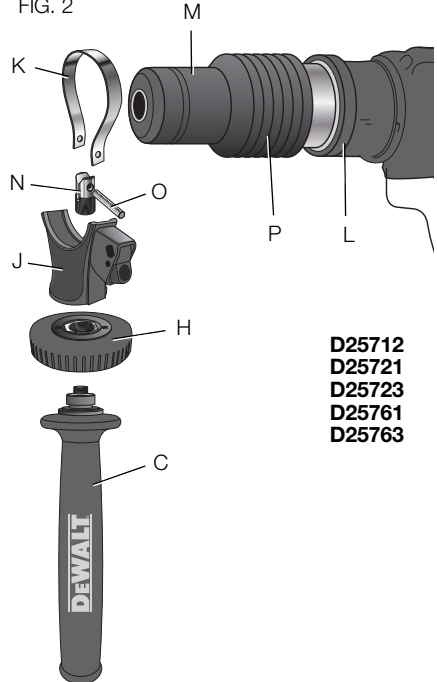


FIG. 2



D25712
D25721
D25723
D25761
D25763

FIG. 3

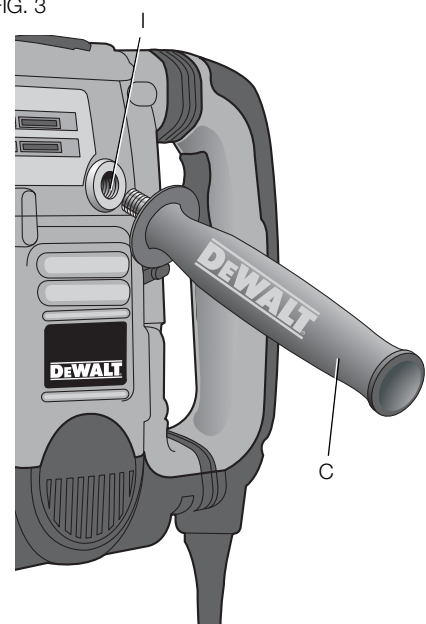
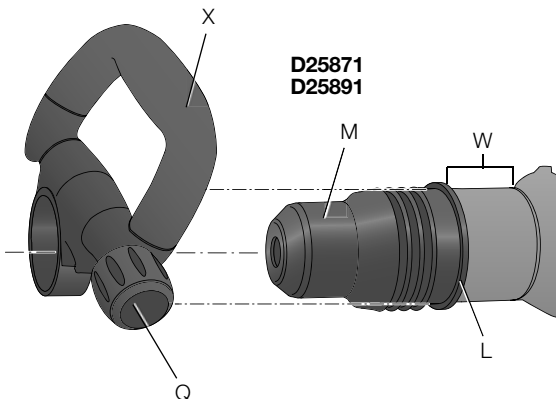


FIG. 4



D25871
D25891

FIG. 5

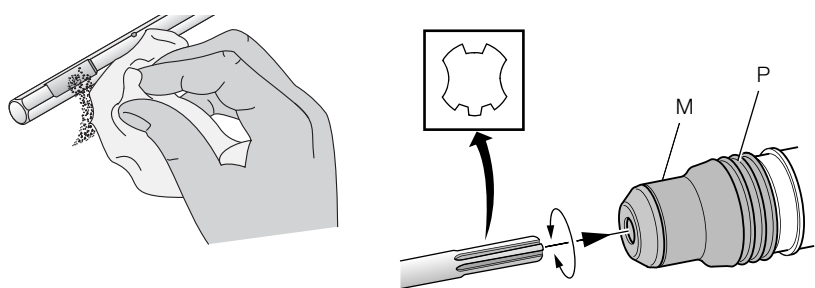


FIG. 6

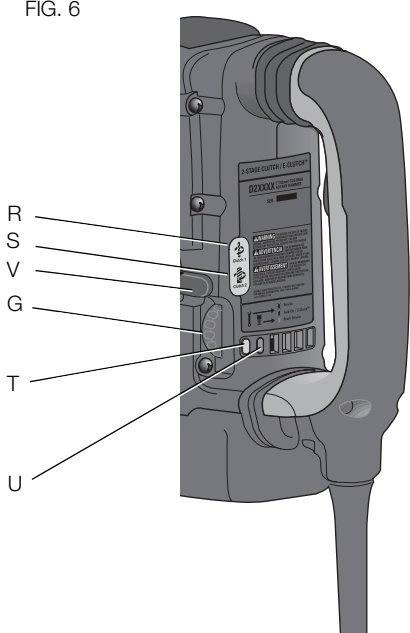
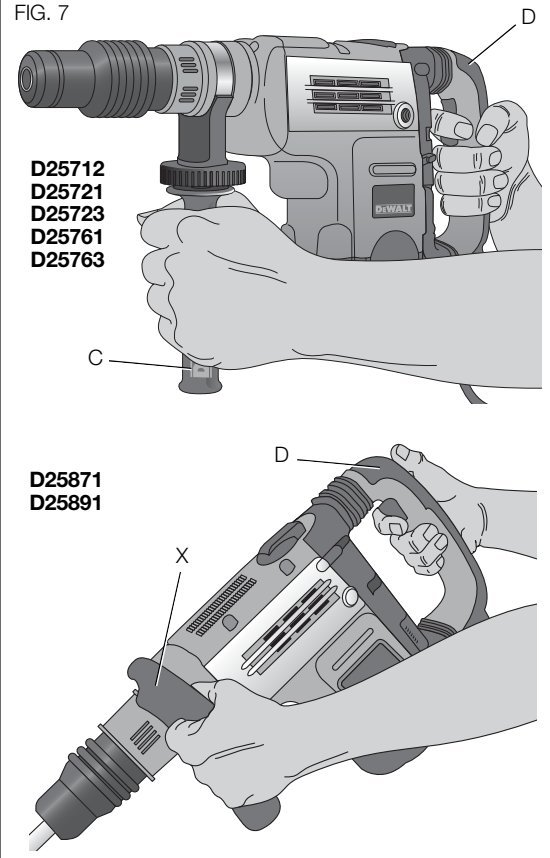


FIG. 7



D25712
D25721
D25723
D25761
D25763

D25871
D25891

- Slide the D-shaped handle assembly over the tool holder (M) and onto the collar (L) in the mounting area (W). The correct position of the D-shaped handle (X) is between head and middle of the tube.
- Adjust the D-shaped handle to the desired angle.
- Slide and rotate the D-shaped handle to the desired position.
- Lock the D-shaped handle in place by securely tightening the knob (Q) so that the D-shaped handle assembly will not rotate.

SHOCKS Active Vibration Control® System (Fig. 1, 7)

For best vibration control, hold the tool with one hand on the main handle (D) and the other hand on the side handle (C) or D-shaped handle (X). Apply just enough pressure so the hammer is approximately mid-stroke. The hammer only needs enough pressure to engage the SHOCKS Active Vibration Control® system. Applying too much pressure will not make the tool drill or chip faster and the SHOCKS Active Vibration Control® system will not engage.

Inserting and Removing SDS Max Accessories (Fig. 5)

- Pull back the locking sleeve (P) and insert the bit shank. The bit shank must be clean and slightly lubricated.
 - Turn the bit slightly until the sleeve snaps back into position.
 - Ensure the bit is properly engaged.
- NOTE:** The bit needs to move several centimeters in and out of the tool holder (M) when properly engaged.
- To remove the bit, pull back the locking sleeve and pull the bit out.

Two-Stage Clutch/E-Clutch™ (Fig. 6)

NOTICE: Always turn the tool off before changing torque control settings or damage to tool may result.

TWO-STAGE CLUTCH

D25712, D25723, D25763

Clutch Setting 1 (R) is designed for most hammerdrilling applications and is designed to easily clutch out when the drill bit encounters re-bar or other foreign substances.

Clutch Setting 2 (S) is designed for higher torque applications such as core-bits and deep hole hammerdrilling and is designed to clutch out at a higher torque threshold.

Move the torque control lever (V) to Clutch Setting 1 or 2 as needed for application.

NOTE: Allow the motor housing to rotate a little while changing torque.

NOTE: If it is not possible to select Clutch Setting 2, run the unit under load and try again.

Each time the tool is plugged in, it will automatically default to Clutch Setting 1, the most sensitive setting.

E-CLUTCH™

D25723, D25763

In addition, E-Clutch™ offers increased user comfort and safety through an on-board antirotation technology capable of detecting if the user loses control of the hammer. When a jam is detected, the torque and speed are reduced instantly. The red indicator LED (T) illuminates when E-Clutch™ is engaged.

Electronic Speed and Impact Control (Fig. 6)

The electronic speed and impact control allows the use of smaller drill bits without the risk of bit breakage, hammerdrilling into light and brittle materials without shattering and optimal tool control for precise chiseling.

To set the control dial, turn the dial (G) to the desired level. The higher the number, the greater the speed and impact energy. Dial settings make the tool extremely flexible and adaptable for many different applications. The required setting depends on the bit size and hardness of material being drilled.

Mode Selector (Fig. 1)

NOTICE: Never change the mode while the unit is running. Tool must come to a complete stop before activating the mode selector button or damage to the tool may result.

CAUTION: Do not change to hammerdrill mode with chisel bit in tool holder. Personal injury and damage to tool may result.

The D25712, D25721, D25723, D25761, D25763 use two operating modes. To select the required operating mode, rotate the mode selector (F) until the arrow points to the hammerdrilling or the chipping icon. The D25871 and D25891 use only the chipping mode.

HAMMERDRILLING MODE (T)

D25712, D25721, D25723, D25761, D25763

The tool simultaneously rotates and impacts the work. This mode is appropriate for all concrete and masonry operations.

CHIPPING MODE (T)

D25871, D25891

The spindle lock is engaged during chipping mode so the tool impacts the work without rotating. This mode is appropriate for light chipping, chiseling and demolition applications.

NOTE: In chipping mode, the hammerdrill can also be used as a lever to free a jammed drill bit.

CHISEL BIT ADJUSTMENT (O)

Turn the mode selector to one of the chisel bit adjustment icons to adjust the chisel to the desired position. There are multiple positions to set the angle of the chisel. After finding the desired position, slightly maneuver the chisel bit back and forth to ensure the chisel is properly engaged.

Indicator Lights (Fig. 1, 6)

The yellow brush wear indicator LED (U) lights up when the carbon brushes are nearly worn out indicating that the tool needs servicing within the next 8 hours of use.

The red indicator LED (T) lights up if the lock-on slider (B) and/or E-Clutch™ is engaged in any mode except the chipping mode.

The red indicator LED (T) starts to flash if there is a fault with the tool or the brushes have completely worn out (refer to **Repairs** under **Maintenance**).

INDICATOR	DIAGNOSIS	SOLUTION
OFF	Tool is functioning normally	Follow all warnings and instructions when operating tool
SOLID	Perform and protect control has been activated	With tool properly supported, release trigger; the tool will function normally when the trigger is depressed again and the indicator light will go out
FLASHING	Perform and protect control is malfunctioning	Take the tool to an authorized DEWALT repair agent.

NOTE: If the tool power is insufficient for normal hammering and if the LED does not flash repeatedly after cycling the trigger, take the tool to an authorized DEWALT repair center.

OPERATION

WARNING: To reduce the risk of injury, turn unit off and disconnect it from power source before installing and removing accessories, before adjusting or when making repairs. An accidental start-up can cause injury.

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

WARNING: To reduce the risk of personal injury, ALWAYS operate the tool with the side handle properly installed and securely tightened. Failure to do so may result in the side handle slipping during tool operation and subsequent loss of control. Hold tool with both hands to maximize control.

WARNING: Drill may stall if overloaded causing a sudden twist. Always expect the stall. Grip the drill firmly with both hands to control the twisting action and avoid injury.

Proper Hand Position (Fig. 7)

WARNING: To reduce the risk of serious personal injury, ALWAYS use proper hand position as shown in Figure 7.

WARNING: To reduce the risk of serious personal injury, ALWAYS hold securely in anticipation of a sudden reaction.

Proper hand position requires one hand on the side handle (C) or D-shaped handle (X), with the other hand on the main handle (D).

NOTE: Operating temperature of this tool is 19° to 104° F (-7 to +40° C). Using the tool outside of this temperature range will decrease the life of the tool.

Trigger Switch (Fig. 1)

D25712, D25721, D25723, D25761, D25763

To turn the tool on, depress the trigger switch (A). To stop the tool, release the trigger switch.

In chipping mode only, lock the trigger switch on by pushing the lock-on slider (B) upward while depressing the trigger switch.

To deactivate the lock-on slider, depress the trigger switch once then release.

The lock-on slider may only be activated in chipping mode. The machine will stop running when trying to engage the lock-on slider in hammerdrilling mode. The motor will stop if the lock-on slider is activated when changing from chisel mode into hammerdrilling mode.

D25871, D25891

For continuous operation, move the rocker switch to the on position. To stop continuous operation, move the rocker switch to the off position.

SOFT START FEATURE

The soft start feature allows you to build up speed slowly, thus preventing the drill bit from walking off the intended hole position when starting. The soft start feature also reduces the immediate torque reaction transmitted to the gearing and the operator if the hammer is started with the drill bit in an existing hole.

Hammerdrilling (Fig. 1)

Set the mode selector (F) to hammerdrilling mode.

- When hammerdrilling, use just enough force on the hammer to keep it from bouncing excessively or "rising" off the bit. Too much force will cause slower hammerdrilling speeds and overheating.
- Drill straight, keeping the bit at a right angle to the work. Do not exert side pressure on the bit when hammerdrilling as this will cause clogging of the bit flutes and a slower hammerdrilling speed.
- When hammerdrilling deep holes, if the hammer speed starts to drop off, pull the bit partially out of the hole with the tool still running to help clear debris from the hole.
- For masonry, use carbide-tipped bits or masonry bits. A smooth even flow of dust indicates the proper hammerdrilling rate.

HAMMERDRILLING WITH A SOLID BIT (FIG. 1, 6)

D25712, D25721, D25723, D25761, D25763

NOTE: The D25871 and D25891 have only chipping modes with no hammerdrilling capability.

- Set the mode selector (F) to hammerdrilling mode.
- For D25723 and D25763 only, move the torque control lever (V) to Setting 1 (R).
- Set the speed and impact control dial (G).
- Insert the appropriate drill bit.
- Adjust the side handle (front or rear position).
- Mark the spot where the hole is to be drilled.
- Place the drill bit on that mark and depress the trigger switch (A).
- Apply only enough pressure to engage active vibration control (refer to **SHOCKS Active Vibration Control® System**).
- To stop the tool, release the trigger switch. Always turn the tool off when work is finished and before unplugging.

HAMMERDRILLING WITH A CORE BIT (FIG. 1, 6)

D25712, D25721, D25723, D25761, D25763

CAUTION: Do not use a core bit for hammerdrilling wood. Personal injury and damage to tool may result.

NOTE: The D25871 and D25891 have only chipping modes with no hammerdrilling capability.

- Set the mode selector (F) to hammerdrilling mode.
 - For D25723 and D25763 only, move the torque control lever (V) to Setting 2 (S).
 - Turn the speed and impact control dial (G) to a desired speed position.
 - Adjust the side handle (front or rear position).
 - Assemble the centering bit and adapter shank into the core bit and insert into tool.
 - Mark the spot where the hole is to be drilled.
 - Place the centering bit on that mark and depress the trigger switch.
- NOTE:** Some core drills require the removal of centering bit after about 1 cm of penetration. If so, remove and continue hammerdrilling.
- When hammerdrilling through a structure thicker than the depth of the core bit, break away the round cylinder of concrete or core inside the bit at regular intervals. To avoid unwanted breaking away of concrete around the hole, first drill a hole the diameter of the centering bit

