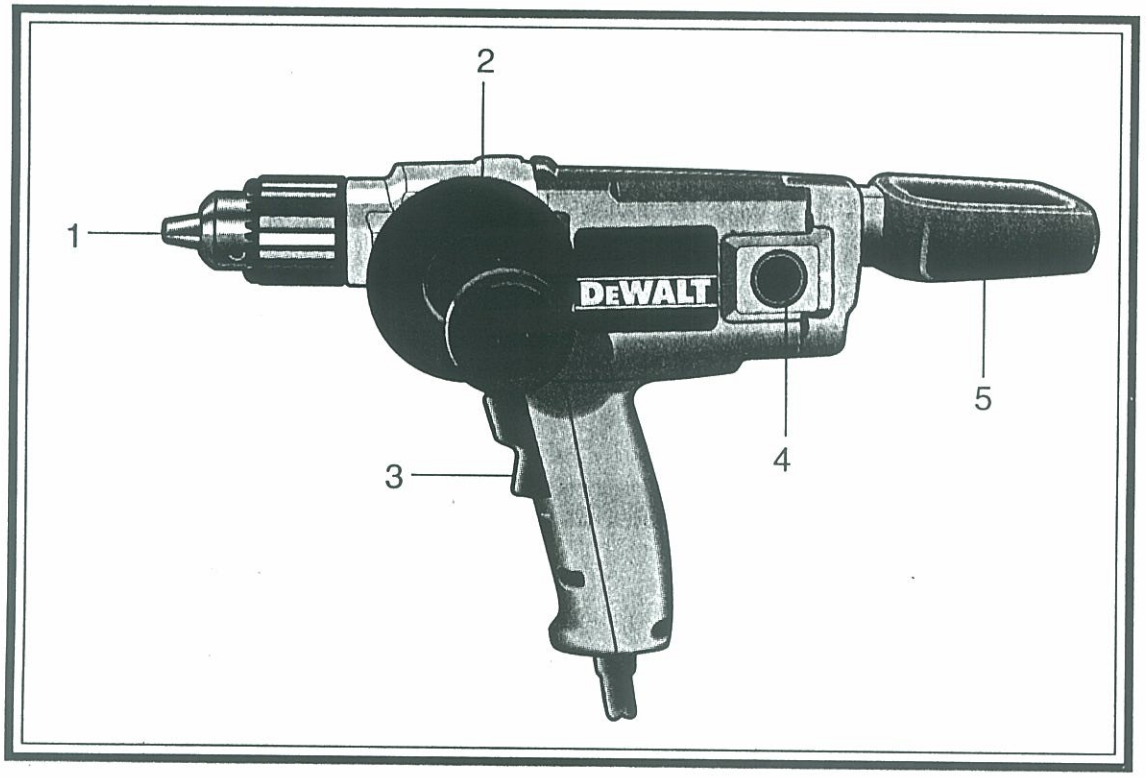
INSTRUCTION MANUAL

DEWALT®

DW130
13mm (1/2") Drill



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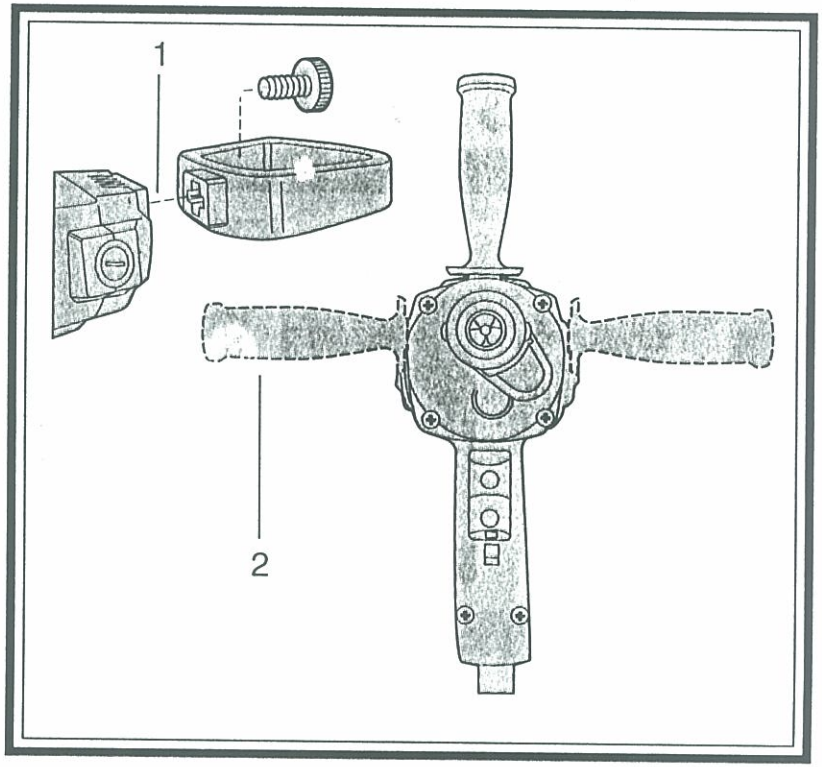

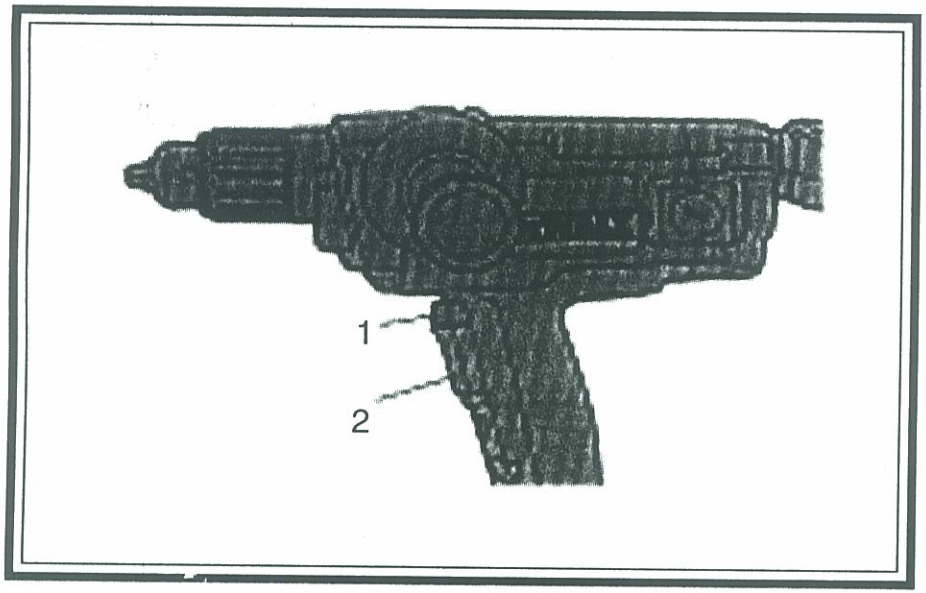

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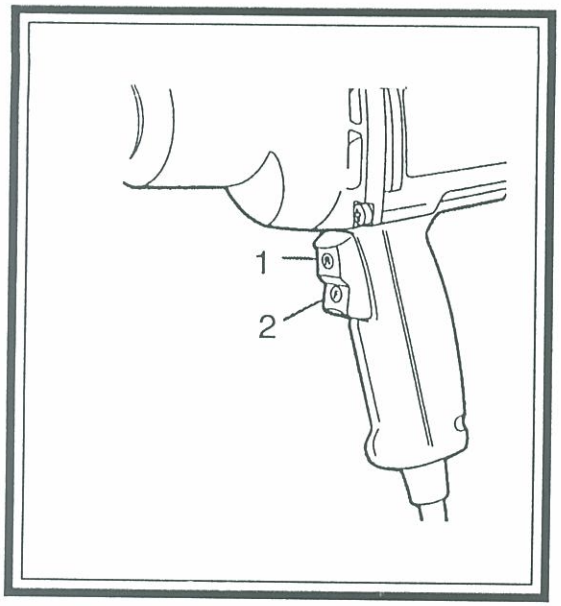

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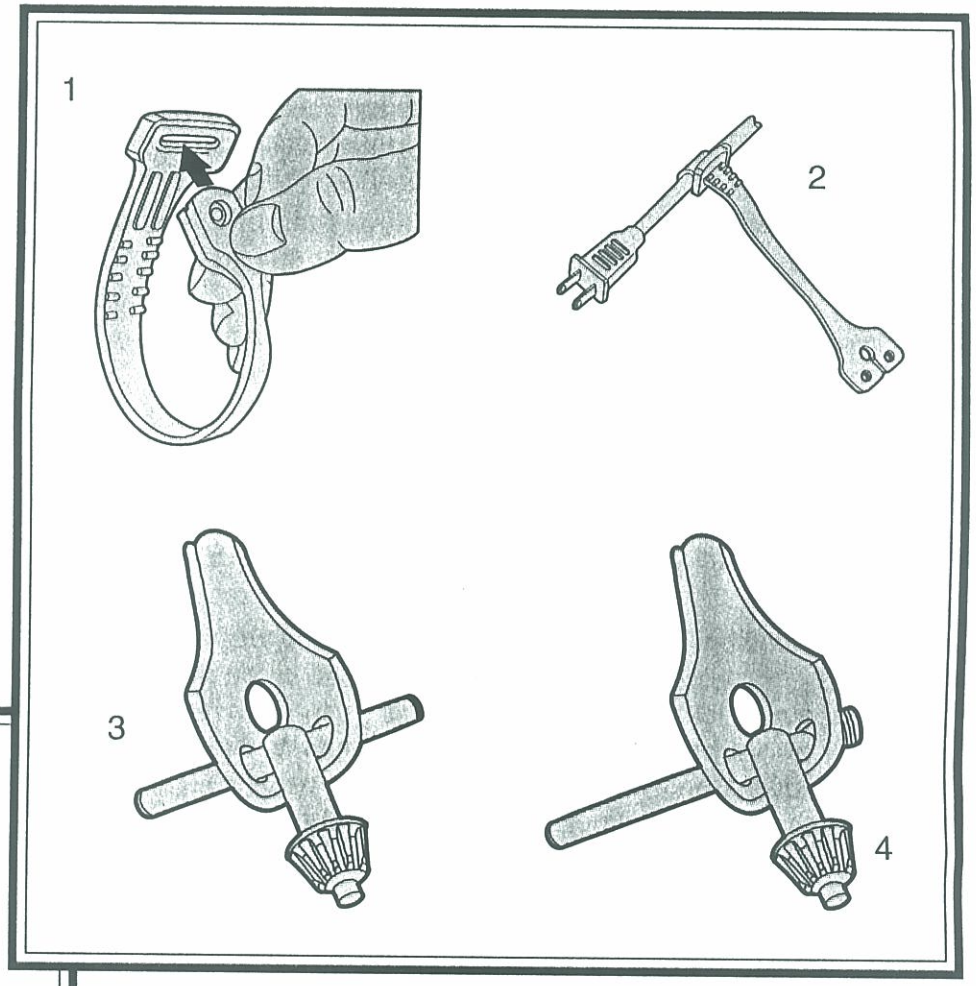

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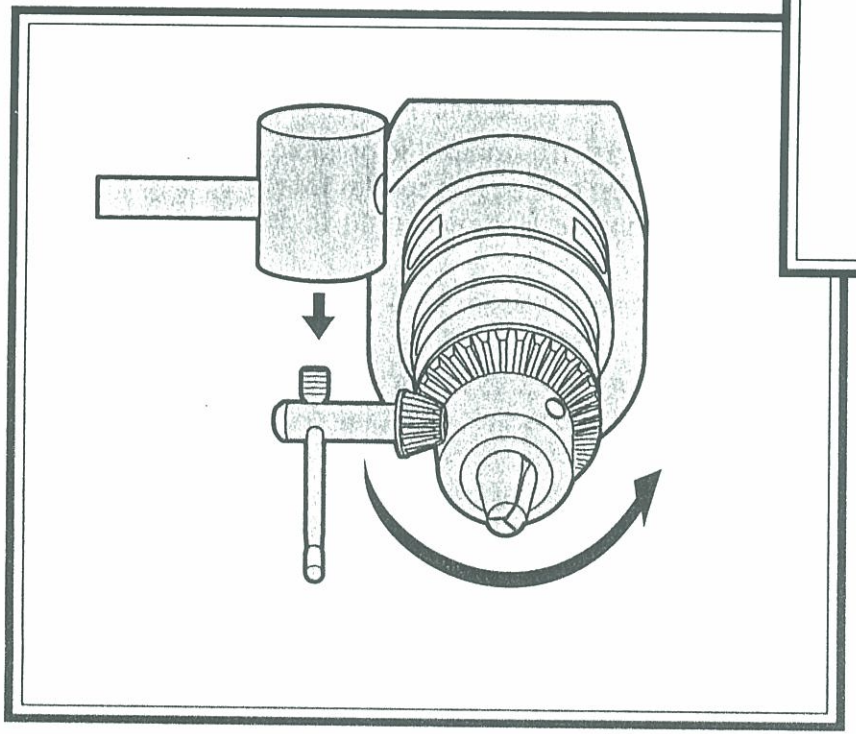


Safety Instructions

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

General

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

2 **Consider work area environment.** Do not expose power tools to humidity. Keep work area well lit. Do not use power tools in the presence of flammable liquids or gases.

3 **Guard against electric shock.** Prevent body contact with earthed surfaces (e.g. pipes, radiators, cookers and refrigerators).

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

5 **Extension cords for outdoor use.** When the tool is used outdoors, always use extension cords intended for outdoor use and mark accordingly.

6 **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.

7 **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 hair covering to keep long hair out of the way.

8 **Wear safety goggles.** Also use a face or dust mask in case the operations produce dust or flying particles.

9 **Be aware of maximum sound pressure.** Take appropriate measures for the protection of hearing if the sound pressure of 85dB(A) is exceeded.

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

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

12 **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.

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

14 **Disconnect tool.** Shut off power 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.

15 **Remove adjusting keys and wrenches.** Always check that adjusting keys and wrenches are removed from the tool before operating the tool.

16 **Use appropriate tool.** 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 is intended. The use of any accessories or attachments other than the ones recommended in this instruction manual may induce a risk of personal injury.

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

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

19 **Check damaged parts.** Before using the tool, carefully check it for damage to ensure it will operate properly and perform its intended function. Check for misalignment and seizure 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 the switch replaced by an authorized DEWALT Repair Center.

20 **Have your tool repaired by an authorized DEWALT Repair Center.** This power tool is in accordance with the relevant safety regulations. To avoid danger, electric appliances must only be repaired by qualified technicians.

English

English

Package Contents
1 13mm Drill
1 Rear handle
1 Side handle
1 Chuck key
1 Chuck key holder
1 Guarantee card

FIG. A Description
1. Chuck
2. Side handle
3. Trigger switch
4. Brush system
5. Multi position end-handle

FIG. B Description
1. Rear handle assembly
2. Side handle assembly

FIG. C (For Models A9, XE, KR)
1. Directional control lever
2. Trigger switch

FIG. D (For Models B1, XD, TW, B4)
1. Reverse
2. Forward

Motor Brushes
Be sure tool is unplugged before inspecting brushes. To inspect brushes, unscrew the plastic brush inspection caps (located in the sides of the motor housing) and withdraw the brush assemblies from the tool.
Keep brushes clean and sliding freely in their guides. Carbon brushes have varying symbols stamped into them, and if the brush is worn down to a point where the symbol is not visible, they must be replaced. New brush assemblies are available at DEWALT certified service centres.
NOTE: This tool is designed to automatically turn itself off when the brushes are worn out.

Rear Handle Assembly (FIG. B1)
This rear handle can be attached either horizontally or vertically. Place the handle into the locating hole on the back of the drill and assemble with holding knob.

Side Handle (FIG. B2)
The side handle can be placed in either side of the drill or the top of the drill according to operator preference and available working clearance. The rear handle can be temporarily removed if working clearance at rear of tool is limited. Always replace spade handle when possible.
CAUTION: Always use the side handle and switch handle. This is a high-torque drill. Always hold it firmly with both hands when operating.

Switch FIG. C (For Models With Trigger Switch Only)
To turn the tool ON, squeeze the trigger switch shown in FIG. C. To turn it OFF, release the switch. To operate the drill in forward direction, move the directional control lever to the left. To operate in reverse, move the lever to the right.

Switch FIG. D (For Models With Rocker Switch Only)
Pressing the lower part of the switch runs the tool in a forward (right hand thread) direction. Pressing the upper part of the switch reverses motor direction. This allows "rocking" fasteners to break them loose.

Operation
DRILLING
1. Always unplug the drill when attaching or changing bits or accessories.
2. Use sharp drill bits only . For WOOD, use twist drill bits, spade bits, power auger bits, or hole saws. For METAL, use high-speed steel twist drill bits or hole saws. For MASONRY, such as brick, cement, cinder block, etc., use carbide-tipped bits.
3. 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.

4. Always apply pressure in a straight line with the bit. Use enough pressure to keep drill biting, but do not push hard enough to stall the motor or deflect the bit.
5. Always use side handle and switch handle.
6. **IF DRILL STALLS**, it is usually because it is being overloaded or improperly used. **RELEASE TRIGGER IMMEDIATELY**, remove drill bit from work, and determine cause of stalling. **DO NOT CLICK TRIGGER OFF AND ON IN AN ATTEMPT TO START A STALLED DRILL- THIS CAN DAMAGE THE DRILL.**
7. To minimize stalling or breaking through the material, reduce pressure on drill and ease the bit through last fractional part of the hole.
8. Keep the motor running when pulling the bit back out of a drilled hold. This will help prevent jamming.

Drilling In Metal

Use a cutting lubricant when drilling metals. The exceptions are cast iron and brass which should be drilled dry. Cutting lubricants that work best are sulphurized cutting oil or lard oil; bacon grease will also serve the purpose.

Drilling In Wood

Holes in wood can be made with the same twist drills used for metal. These bits may overheat unless pull out frequently to clear chips from the flutes. For larger holes, use power drill wood bits. Work that is apt to splinter should be backed up with a block of wood.

Drilling In Masonry

Use carbide tipped masonry bits at low speeds. Keep even force on the drill but not so much that you crack the brittle materials. A smooth, even flow of dust indicates the proper drilling rate.

Chuck Key Holder (FIG. E)

1. Push double-hole end of holder through slot in other end of holder.
2. Slip loop over electric plug and draw loop tight around cord.
3. Push ends of chuck key handle through two holes in end of holder.

Chuck Removal (FIG. F)

1. Place chuck key in chuck as shown in Figure F. Using a wooden mallet or similar object, strike key sharply in a **COUNTER-CLOCKWISE** direction. This will loosen chuck so that it can be unscrewed by hand.

Chuck Installation (FIG. F)

1. Screw the chuck onto the tool spindle in **CLOCKWISE** direction.
2. When the chuck is all the way on, place the chuck key in any hole, as shown in Figure F and use a wooden mallet or similar tool to strike the key sharply in a **CLOCKWISE** direction to tighten the chuck.

Important

To assure produce SAFETY and RELIABILITY, repairs, maintenance and adjustment should be performed by DEWALT certified service centers or other qualified service organizations. These service organizations service DEWALT tools always using DEWALT replacement parts.

Maximum Recommended Capacities

BITS, METAL DRILLING	13 mm (½")
WOOD, FLAT BORING	38 mm (1½")
BITS, MASONRY DRILLING	19 mm (¾")
HOLE SAWS	100 mm (4")
WIRE WHEEL BRUSHES	100 mm (4")
WIRE CUP BRUSH	75 mm (3")
BUFFING WHEELS	75 mm (3")
RUBBER BACKING PADS	116 mm (4⅝")

DEWALT After-Sales Service

All DEWALT power tools are thoroughly tested before leaving the factory. However, if the power tool needs repair, please contact your dealer or take it to your nearest DEWALT Service Center.

Guarantee

Full One Year Warranty

DEWALT heavy duty industrial tools are warranted for one year from date of purchase. We will repair, without charge, any defects due to faulty materials or workmanship. Please return the complete unit, transportation prepaid, to any DEWALT Service Center or any authorized service station. This warranty does not apply to:

- Accessories
- Damage caused where repairs have been made or attempted by others
- Damage due to misuse, neglect, wear and tear, alteration or modification.

Free One Year Service Contract

In addition to a full one year warranty, every DEWALT tool is backed with a Free One Year Service Contract. We will provide free labour on all repair and preventive maintenance during the first year after purchase. Proof of purchase date is required.

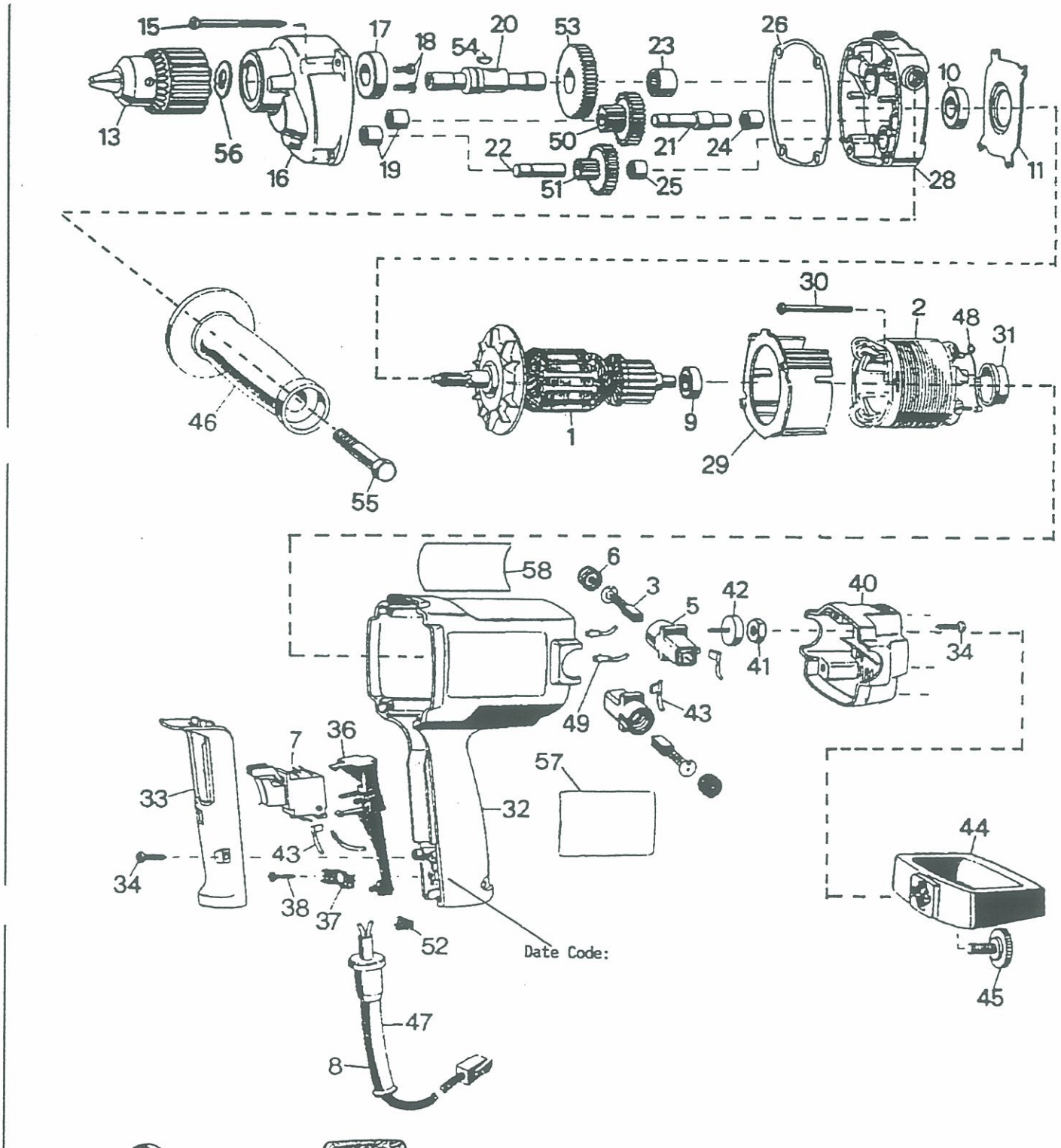
30 Day No Risk Satisfaction Guarantee

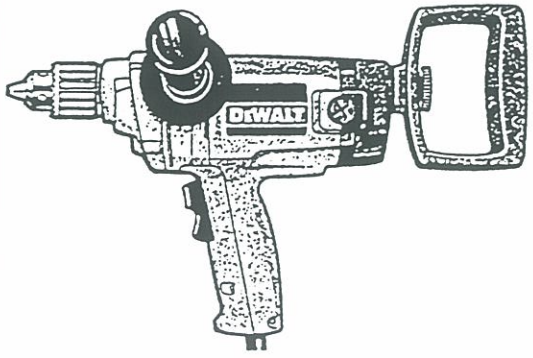
If you are not completely satisfied with the performance of your DEWALT heavy duty industrial tool, simply return it to the participating seller within 30 days. Proof of purchase date is required.

Unwanted Tools And The Environment

Take your old tool to an authorized DEWALT Repair Agent where it will be disposed off in an environmentally safe way.

DEWALT
High Performance Industrial Tools





13MM (1/2") SPADE HANDLE REVERSING DRILL				
CAT. NO.	TYPE	VOLTS	WATTS	RPM
DW130	1	240	840	450
DATE JANUARY 1997				
DeWALT INDUSTRIAL POWER TOOLS				

DEWALT 13MM (1/2") DRILL CAT NO. DW130 TYPE 1

	Item No.	Part No.	Description	Qty
	1	450130-03	Armature & Fan (8 Teeth) (Incl. 9,10,11)	1
	2	450379-01	Field	1
	3	450374-04	Brush & Spring	2
	5	448083-01	Brush Holder	2
	6	448084-01	Brush Cap	2
	7	88324-02	Switch	1
	8	444469-25	Cord & Plug	1
♀	9	760232-00	Bearing (Ball)	1
	10	330003-04	Bearing (Ball)	1
	11	448079-00	Bearing Retainer	1
♀	13	449644-00	Chuck & Key (1/2 x 20 TPI)	1
	15	448162-00	Screw 8-16 x 2.1/4" Thread Forming	4
♀♀	16	449481-00	Gear Case (Incl. 19)	1
♀	17	700964-00	Bearing (Ball)	1
	18	52819-00	Screw 8-16 x 3/8" Thread Forming	2
	19	131790-00	Bearing (Needle)	2
	20	133316-01	Spindle (1/2-20 Thread)	1
	21	449489-00	Pinion & Gear (Incl. 50)	1
	22	449486-00	Pinion & Gear (Incl. 51)	1
	23	135937-00	Bearing (Needle)	1
	24	131790-00	Bearing (Needle)	1
	25	449493-00	Bearing (Roller)	1
	26	450485-00	Gasket	1
	28	449483-00	Gear Case Cover (Incl. 23, 24, 25)	1
	29	447786-00	Fan Baffle	1
	30	448668-00	Screw 8-16 x 2 Thread Forming	2
♀♀	31	445217-02	Rubber Cup	1
♀	32	449459-03	Field Case	1
	33	449914-02	Handle Cover	1
	34	86964-00	Screw 8-16x23/32" Thread Forming	6
	36	449915-00	Switch Support	1
♀	37	142519-00	Cord Clamp	1
	38	330013-03	Screw 6-19 x 5/8" Thread Forming	2
	40	449492-02	End Cap	1
	41	99371-06	Nut 5/16 - 24	1
	42	449700-00	Cap Nut	1
¶	43	130725-00	Terminal	6
	44	96511-00	Handle	1
	45	67787-02	Knob, 5/16-24	1
	46	130814-06	Handle (Side)	1
	47	330005-01	Cord Protector	1
	48	158491-00	Lead	1
¶	49	448172-00	Terminal	2
	50	449490-00	Gear (37 Teeth)	1
	51	449487-00	Gear (39 Teeth)	1
	52	32114-06	Connector	1
	53	400147-00	Gear (50 Teeth)	1
	54	7027-00	Key	1
	55	99173-36	Screw 1/2 - 13 x 2 1/4" Cap	1
	56	450819-00	Washer	1
¶	57	149477-00	Label, Identification	1
¶	58	156010-00	Nameplate	1

PARTS NOT SHOWN (Supplied with Unit)

65288-02	Chuck Key Holder	1
330034-03	Chuck Key	1

♀ NOTES

9,31	Coat O.D. of bearing with grease before assembling into rubber boot.
13	Apply Loctite 271 to chuck threads, then, tighten chuck.
16	Distribute 25 - 30 grams of grease on all gear teeth before assembly.
17	Seal to face gear.
32	Date Code: Located on right hand, bottom of field case
37	Cord clamp must be oriented with convex side towards cable

¶ Items not stocked at Head Office.

kb-dw130.wpd

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High Performance Industrial Tools

Note: This instruction manual is applicable for the following sub-codes – A9, – XE, – TW

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