70759

rolson®
QUALITY TOOLS

24V 2 Speed Cordless Hammer Drill

INSTRUCTION MANUAL

Please keep this instruction manual for future reference

RoHS COMPLIANT 2002/95/EC

03/2009

IMPORTANT SAFETY INSTRUCTIONS

WARNING: *When using electrical and pneumatic equipment such as this, basic safety precautions should always be followed to reduce the risk of personal injury. Please familiarize yourself with the following information to prevent damage to your equipment and injury to the operator, property damage, or death*

READ ALL INSTRUCTIONS BEFORE USING THIS PRODUCT

We strongly recommend that this tool not be modified and /or used for any application other than that for which it was designed. If you have any questions relating to its application, do not use the equipment until you have consulted us and we have advised you.

1. **KEEP WORK AREA CLEAN.** Cluttered areas invite injuries.
2. **CONSIDER WORK AREA ENVIRONMENT.** Don't use power tools in damp, wet, or poorly lit locations. Don't expose your tool to rain. Keep the work area well lit. Don't use tools in the presence of flammable gases or liquids.
3. **KEEP CHILDREN AWAY.** All children should be kept away from the work area. Don't let them handle machines, tools or extension cords.
4. **STORE IDLE EQUIPMENT.** Store equipment in a dry area to inhibit rust. Equipment also should be in a high location or locked up to keep out of reach of children.
5. **DON'T FORCE THE DRILL.** It will do the job better and more safely at the rate for which it was intended.
6. **USE THE RIGHT TOOL.** Don't force a small tool or attachment to do the work of a larger industrial tool. Don't use a tool for a purpose for which it was not intended.
7. **DRESS PROPERLY.** Don't wear loose clothing or jewelry. They can be caught in moving parts. Protective, non-electrically conductive gloves and non-skid footwear are recommended when working. Wear protective hair covering to contain long hair and keep it from harm.
8. **USE EYE PROTECTION.** Use a full-face mask if the work you're doing produces metal filings, dust or wood chips. Goggles are acceptable in other situations. Wear a clean dust mask if the work involves creating a lot of fine or coarse dust.
9. **DO NOT TOUCH BIT WITH HANDS AFTER DRILLING.** Bit can become extremely hot after use.
10. **SECURE WORK.** Use clamps or a vise to hold the work if possible. It's safer than using your hands and it frees both hands to operate the tool.
11. **DON'T OVERREACH.** Keep proper footing and balance at all times. Do not reach over or across machines that are running.
12. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Keep handles dry, clean, and free from oil and grease.
13. **REMOVE ADJUSTING KEYS AND WRENCHES.** Although your cordless drill has a convenient keyless chuck, make it a habit to check that keys and adjusting wrenches are removed from any rotating tool before using.
14. **AVOID UNINTENTIONAL STARTING.** Don't carry drill with a finger on the switch. Be sure the direction switch is in the **NEUTRAL** position when not in use or when changing bits.
15. **STAY ALERT.** Watch what you are doing & use common sense. Don't operate any tool when you are tired.
16. **CHECK FOR DAMAGED PARTS.** Before using drill, any part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mountings, and other conditions that may affect its operation. Check bits to make sure they are sharp and not chipped. Inspect screws and tighten any ones that are loose. Any part that is damaged should be properly repaired or replaced by an authorized service centre unless otherwise indicated elsewhere in the instruction manual. Have defective switches replaced by an authorized service centre. Don't use the tool if switch does not turn on and off properly.

IMPORTANT SAFETY INSTRUCTIONS

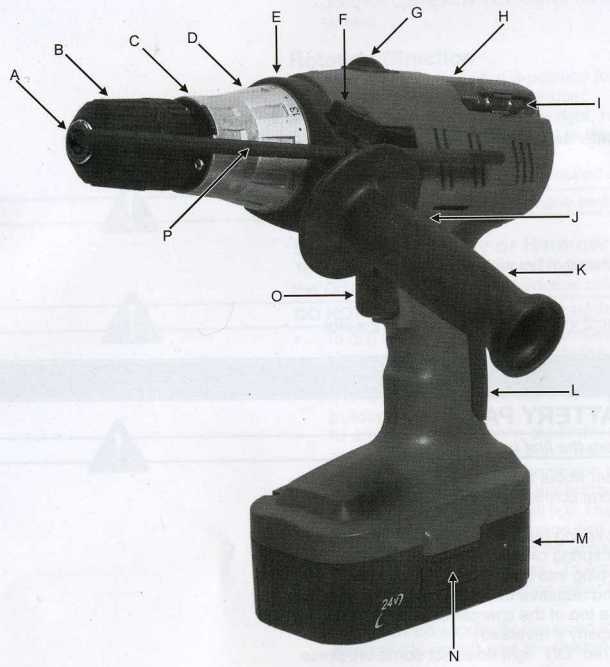
17. **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces: pipes, radiators, ranges, and refrigerator enclosures. When drilling or cutting into walls, floors, or wherever "live" electrical wires may be encountered, try to ascertain whether there is a danger of shock. Even so, **DO NOT TOUCH METAL PARTS OF THE TOOL.** Hold the tool only by the plastic handle or the side grip to prevent electric shock if you hit a live wire.
18. **REPLACEMENT PARTS.** When servicing, use only identical replacement parts.

SPECIFIC SAFETY RULES

PRECAUTIONS FOR BATTERY AND CHARGER

1. **CHARGE BATTERIES FULLY** before initial use.
2. **CHARGE AT ROOM TEMPERATURE.** Temperature must be higher than 0°C (32°F) and lower than 50°C (122°F).
3. **DO NOT CHARGE IF CHARGER'S CORD OR PLUG IS DAMAGED.** Charging with damaged cord may result in fire or electrical shock. If charger is damaged in any way, have it repaired by a qualified serviceman.
4. **DO NOT SHORT ACROSS TERMINALS OF BATTERY.** Take care that metal such as paper clips, nails, the sides of a metal toolbox do not cause a short in your battery. Extremely high temperatures and fire can result.
5. **DO NOT INCINERATE BATTERY**

FUNCTIONAL DESCRIPTION



A. 1/2" aperture for 3-Jaw chuck
B. Hand tightening chuck collar
C. Drill Only/Hammer Drill selection collar
D. Selection collar for clutch release settings
E. Ring clamp for auxiliary side handle
F. Thumbscrew for auxiliary side handle
G. Gear selector
H. Bubble level vial
I. Double-ended Phillips/slot screwdriver bit
J. Forward/Neutral lock/Reverse selector
K. Auxiliary side handle
L. Padded handle insert
M. 24 volt battery
N. Battery clip release button
Q. Variable speed control trigger
P. Depth gauge rod

ASSEMBLY

Your Cordless Impact Drill comes fully assembled in the case except for the auxiliary side handle and depth gauge rod.

1. Remove the auxiliary side handle from the case. You may have to loosen the thumbscrew slightly, turning it counterclockwise, so that the ring clamp of the handle releases the boss in the case lid.
2. To attach the handle to the drill, slide the large aperture over the drill chuck and the metal gear casing, unscrewing the thumbscrew on the handle so that the ring clamp aperture is large enough to allow it to slip over the front part of the plastic housing. There is a channel molded into the tool housing that accommodates a line of raised bumps on the inside of the ring clamp. These allow the handle to be clamped loosely enough that it does not come off, but still rotates.
3. The auxiliary side handle can be rotated 360 degrees to any comfortable position and clamped in place there by turning the thumbscrew clockwise until it is tight. Be sure the small metal plate under the thumbscrew is seated flat in its cutout.
4. For some operations, particularly blind drilling, it may be useful to install the depth gauge rod. It can be inserted into the hexagonal hole in the auxiliary side handle parallel to the line of the drill bit. Slide it to the intended depth, and clamp it under that same small metal plate as the thumbscrew is tightened.

SPECIFICATIONS

24v CORDLESS HAMMER DRILL

- 1/2" / 13mm keyless chuck
- Variable speed, Dual range, reversing
- 0-350rpm/ 0-1200rpm
- Max Torque:26N.M
- Rotating side handle
- Adjustable drilling-depth rod
- Padded hand grip
- 16 T Torque Setting Electric Brake
- Metal gear case
- Bubble vial sight level in housing
- 2pc Rechargeable Nickel-Cadmium Batteries, 1.3Ah, 24 volts
- 1 hr Quick Charger
- Max Drill Diameter In Wood 36mm
  In Steel 13mm
  In Masonry 15mm

Includes:

- 2 pcs. double-ended screwdriver bits stored in housing clips
- 6pcs. Drill bits
- Magnetic driver bit holder
- 6 pcs. 1" long x ¼" hex screwdriver bits: 2 x Philips, 2 x Pozi-Drive, 2 x slot
- Molded carrying case

OPERATION

OPERATING NOTES FOR BATTERY PACK

NOTE: *Battery must be fully charged before the first use.*

- Batteries will reach full performance after about five charge/discharge cycles.
- Always have drill rotation switch in neutral position when removing or inserting battery to avoid unintentional starting.
- To remove battery pack, press the lock spring buttons and pull out.
- To insert, simply push pack in until lock spring clicks.
- To charge, plug the charger's AC input plug into a 230V household current. The step of the battery pack has positive and negative terminal marking on it. Align these with the identical markings on the top of the charger base and insert pack into base (Pack will not insert properly if reversed)
- If, when you first insert the battery, the red "ON" light does not come on, press the "SET" button on the charger. When battery is charging, red light is on. When battery is finished charging, the charger turns "OFF" and a green light comes on.
- Normal charging time is approximately 1 hour, perhaps slightly longer if the battery is fully discharged.

NOTE: *When charging more than one pack in succession, allow 15 minutes between charges.*

- The batteries discharge slowly over time, even when not used, and may require recharging before you use the tool.
- After many charge/discharge cycles, your batteries will lose their ability to hold a charge. They should then be replaced.

CAUTION: *Dispose of batteries at an appropriate waste disposal facility. They contain cadmium, so do not throw batteries away in common trash receptacles.*

OPERATION

OPERATING NOTES FOR DRILL

Variable Speed

You can vary the chuck rotation speed by:

1. Varying finger pressure on the trigger. Light pressure causes the drill to turn slowly; heavier pressure causes it to turn faster.
2. Selecting high or low gear.

- Move the gear selector switch forward, exposing the 'HI' legend, to work in the high-speed range.
- Move the gear selector switch backward, exposing the 'LO' legend, to work in the low speed range.
- In the low gear (low-speed range), the drill turns with more torque, especially good for operations that require more power than speed, such as driving screws.

Rotation Direction

Your drill is equipped with a 3-position forward / neutral locking / reverse switch through the housing above the trigger.

- When it is pushed toward the right, rotation is forward (clockwise).
- When pushed in from the right to the left side, rotation is reversed (counter-clockwise).
- When in center position, it is locked in neutral and the trigger is blocked.

DO NOT *push the rotation direction switch until the chuck stops turning.*

Selecting Drill Only or Hammer Drill

To select regular or hammer drilling, wait until the drill has stopped turning and turn the Drill Only/Hammer Drill selection collar to the desired setting.

DO NOT *move the hammer switch while the drill is turning.*

- To drill wood or steel or drive screws without hammer action, turn the Drill Only/ Hammer Drill selection collar to the right so the drill pictograph is at the top.
- Use a sharp drill bit especially designed to cut the material you are working on. It is recommended you use a cutting fluid on the metal surfaces to avoid heat buildup.
- To drill cement, masonry, concrete, or ceramic materials it is often advantageous to use hammer action. This will cause the drill to use percussion as well as turning action. Percussion causes the tip of the drill bit to break up the material it contacts, while the turning action removes the debris created from the contact point at the drill tip. The percussion varies from 0-8000 beats per minute in the low speed range and from 0-22400 bpm in the high-speed range. Be aware that the force of the impacts tends to diminish as the number of beats per minute increases. To engage the Hammer Drill function, turn the Drill Only/Hammer Drill selection collar to the left so the hammer pictograph is at the top.
- Use a drill bit especially designed to cut concrete or stone. Masonry bits are designed to do this and to withstand the specific stresses of impact drilling.

OPERATION

Clutch Release Settings

These are governed by a 16-position metal dial ring situated just behind the Drill Only/Hammer Drill selection collar. When dial indicator reads 1, torque is at minimum before the clutch disengages the chuck from the drive; when indicator is at 15, output is at maximum before it is disengaged. This is useful in driving screws into different types of material. More torque will set a screw deeper into material; less torque will prevent it stripping. Larger screws require more torque to drive than small ones. A little trial and error will show you which is the optimum setting for the situation.

- Release the trigger when the clicking sound indicates the chuck will not turn further.
- The clutch release also helps to prevent prematurely draining the battery. Forcing the battery to provide power in a situation where the motor cannot turn will drain the battery quickly.
- For drilling, always use the drill setting, indicated by a drill bit pictograph. At this setting, the drive does not disengage from the chuck.

Keyless Chuck

1. Center the rotation direction switch to prevent the motor accidentally starting.
2. Note there are two rings on the chuck. Turning the endmost knurled ring of the chuck clockwise by hand while with the other hand, holding the second ring (closer to the rear of the tool) to prevent the motor turning; closes the jaws of the chuck. Turning that same endmost knurled ring counter-clockwise opens the jaws.
3. Open the jaws to accept a bit and then close the jaws so they clamp the bit tightly.

MAINTENANCE

- Keep the tool clean using a soft damp (not wet) cloth. Do not use solvents on the plastic parts.
- Lubrication is not necessary. After long use, have an authorized service centre maintain and lubricate the tool.
- Should the chuck require replacement,

1. Remove the battery pack
2. Follow instructions on the chuck package

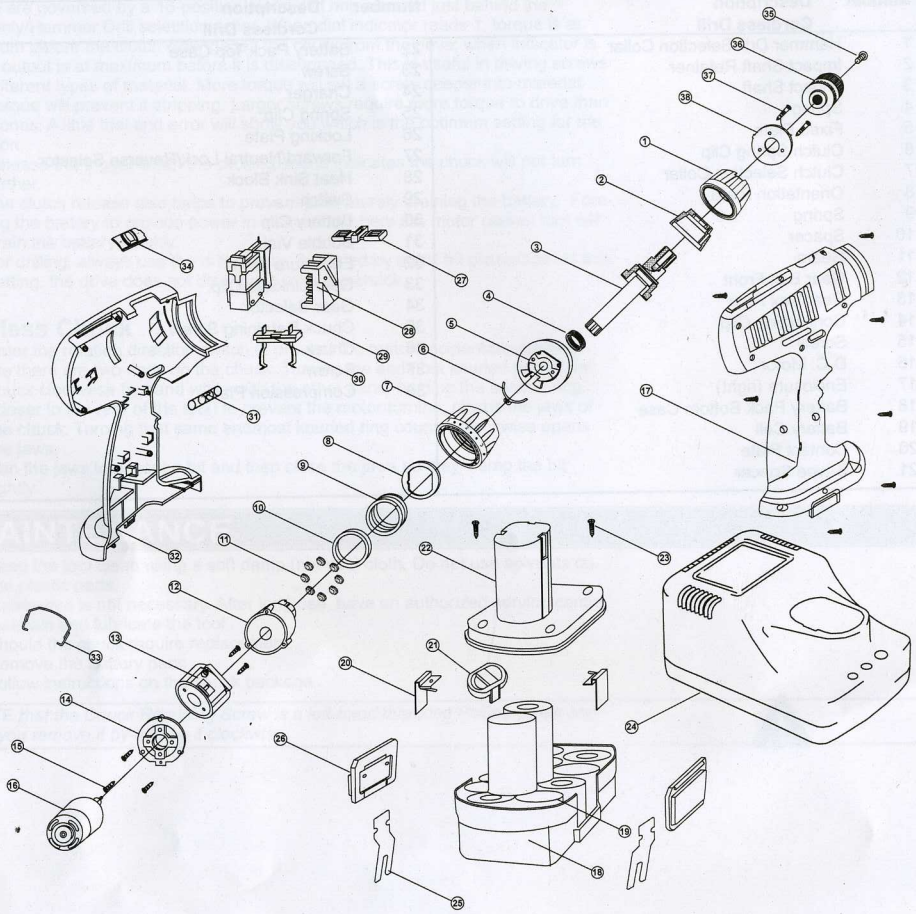
NOTE *that the Chuck Retaining Screw is a left-hand threaded Philips screw and you remove it by turning it clockwise.*

PARTS LIST

Please see the schematic drawing on page 8

Number	Description Cordless Drill	Number	Description Cordless Drill
1	Hammer Drill Selection Collar	22	Battery Pack Top Case
2	Impact Shaft Retainer	23	Screw
3	Impact Shaft	24	Charger
4	Spring	25	Spring Clip
5	Fixed Plate	26	Locking Plate
6	Clutch Spring Clip	27	Forward/Neutral Lock/Reverse Selector
7	Clutch Selection Collar	28	Heat Sink Block
8	Orientation Plate	29	Switch
9	Spring	30	Battery Clip
10	Spacer	31	Bubble Vial
11	Gears	32	Enclosure (left)
12	Gear Box Front	33	Gear Linkage Clip
13	Gear Box Rear	34	Gear Selector
14	Connection Clip	35	Chuck Retaining Screw
15	Screw	36	Chuck
16	D.C. Motor	37	Screw
17	Enclosure (right)	38	Compression Plate
18	Battery Pack Bottom Case		
19	Battery Cell		
20	Contact Plate		
21	S-type Spacer		

SCHEMATIC DRAWING



WARNING: *Repairs should be made by an authorized repair centre. Opening this tool could invalidate your warranty.*

ROLSON TOOLS LTD

DECLARATION OF CONFORMITY

We, the importer

Rolson Tools Ltd.

ADD : Rolson house (Orchard House) London Road,

Ruscombe, Twyford Berkshire, RG 10 9 HQ.

DECLARE THAT THE PRODUCT :

70759 24V CORDLESS IMPACT DRILL

are in conformity with the following references to the

Specification under which conformity is declared.

THE LOW VOLTAGE DIRECTIVE (DIRECTIVE 73/23/EEC)

THE EMC DIRECTIVE (DIRECTIVE 89/336/EEC)

THE MACHINERY DIRECTIVE (DIRECTIVE 98/37/EC)

ROLSON TOOLS LTD.

SIGN