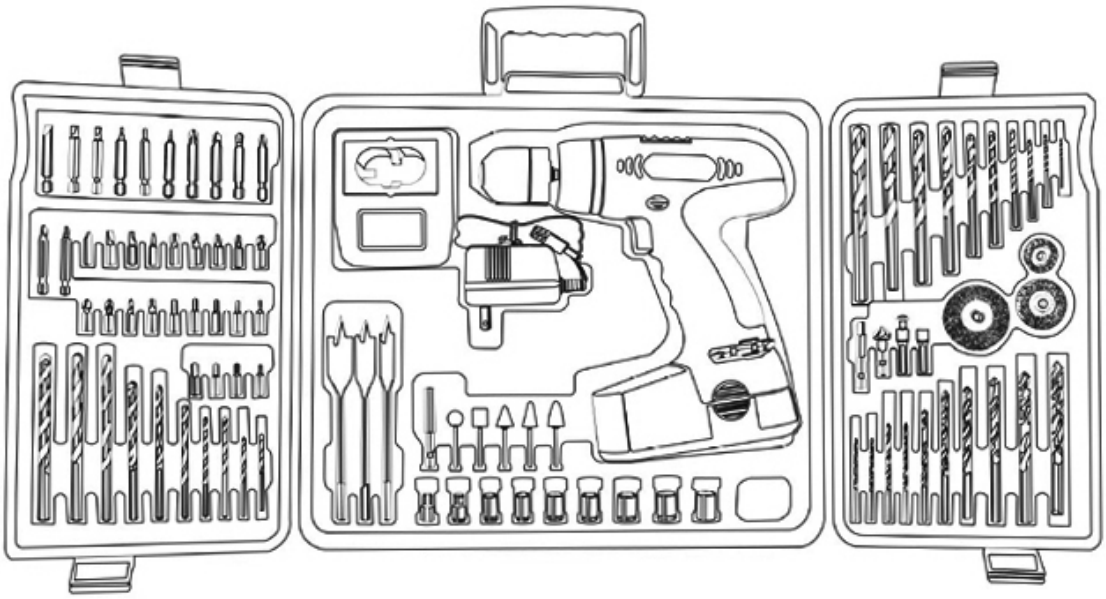
ITEM: 241-9904

92PIECE / 19.2V
CORDLESS DRILL KIT





INSTRUCTION MANUAL

⚠ WARNING:

For your personal safety,READ and UNDERSTAND before using.

IMPORTANT SAFETY INSTRUCTIONS

WARNING *When using electric tools, machines or equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury.*



READ ALL INSTRUCTIONS BEFORE USING THIS TOOL

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 prohibit 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.** Drill bits can become extremely hot after job is completed.
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 which are running.
12. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and safe 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 tool 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 center unless otherwise indicated elsewhere in the instruction manual. Have defective switches replaced by an authorized service center. Don't use the tool if switch does not turn on and off properly.
17. **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces: pipes, radiators, ranges, and refrigerator enclosures. When drilling 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 THE CHUCK OR ANY FRONT METAL PARTS OF THE DRILL. Hold the tool only by the plastic handle or the side grip to prevent electric shock in case you hit a live wire.
18. **REPLACEMENT PARTS.** When servicing, use only identical replacement parts.

PRECAUTIONS FOR BATTERY and CHARGER

CHARGE BATTERY AT LEAST 6 HOURS before initial use.

1. **CHARGE AT ROOM TEMPERATURE.** Room temperature must be higher than 32°F and lower than 122°F.
2. **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.
3. **DO NOT SHORT ACROSS TERMINALS OF BATTERY.** Take care that metal such as paper clips, nails, the sides of a metal tool box do not cause a short in your battery. *Extremely* high temperatures and fire can result.
4. **DO NOT INCINERATE BATTERY**

This product has been carefully engineered and manufactured to give you dependable operation. Please read this manual thoroughly before operating your new product, as it contains the information you need to become familiar with its features and obtain the performance that will bring you continued enjoyment for many years.

WARNING! *The warnings, cautions, and instructions detailed in this manual cannot cover all possible conditions and situations that occur. It must be understood by the operator that COMMON SENSE AND CAUTION ARE FACTORS that cannot be built into this product, but MUST BE SUPPLIED BY THE OPERATOR.*

SPECIFICATIONS

- Cordless Drill
- 1 battery
- 3 to 5 hour charger
- 2 double-ended screwdriver bits (stored in clips on the drill handle), each with 1/4" slot and #2 Phillips tips

- Voltage: 19.2 volts DC
- No load speed: 0 - 600 RPM
- Reversible With Electric Brake
- Chuck: 3/8" Keyless
- Charger: 3 to 5 Hour CUL & UL-Approved
- Battery: 1200 mAh Ni-Cd rechargeable
- Torque: 20 Clutch Settings plus drill setting

OPERATING PROCEDURES

VARIABLE SPEED

You can vary the spindle rotation speed by modulating finger pressure on the trigger. Light finger pressure causes the drill speed to be slow; heavier pressure will produce higher drill speed.

ROTATION DIRECTION

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

1. When switch is pushed from the left to the right, rotation is reversed (counter-clockwise).
2. When pushed in from the right to the left side, rotation is forward (clockwise).
3. When in center position, it is locked in neutral and the trigger is blocked. Do not push the rotation direction knob until the chuck stops turning.

TORQUE REGULATOR

This is a 21 position dial situated just before the chuck.

- When the indicator reads 1, torque is at minimum before the clutch disengages the chuck from the drive.
- When indicator is just past 19, output is at maximum before it is disengaged. This is useful in driving screws into different types of material.
- More torque sets a screw deeper into material, less torque will prevent it from 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 trigger when a clicking sound indicates the chuck will not turn further.
- For drilling, always use the drill setting, indicated by the pictogram of a drill bit. At this setting, the drive will not disengage from the chuck.

OPERATING PROCEDURES

KEYLESS CHUCK

- Center the rotation direction switch to prevent the motor accidentally starting.
- 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.
- Open the jaws to accept a bit and then close the jaws so they clamp the bit tightly.

BATTERY PACK

- **Battery must be fully charged for a minimum of 6 hours** before using drill.
- Batteries will reach full performance after about five charge/discharge cycles.
- Always have drill rotation switch in neutral/lock position when removing or inserting battery to avoid unintentional starting.
- To remove battery pack from the tool, press the lock spring buttons and pull out.
- To insert, simply push pack in until the lock spring clicks.
- The battery charger consists of two parts:
    1. a combined transformer/110 volt plug with a low-voltage lead
    2. a charging stand
- To charge, connnect the transformer/plug low-voltage lead to the charging stand.
- Insert the transformer/plug into a 110V household current receptacle.
- 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 charging stand and insert pack into base (Pack will not insert properly if reversed)
- The red light is the power indicator. When the charger is connected to AC household current, the red light is on.
- The green light is the charge indicator. When the battery is properly inserted into the charger and charging, the green light is on.
- Normal charging time is 3 to 5 hours. The charger will charge the battery at the normal rate until charging is complete. Current will then diminish and continue to provide a small trickle charge. Battery temperature will cool to normal.
- When charging more than one battery pack in succession, allow 15 minutes between charges.
- The battery discharges slowly over time, even when not used, and may require recharging before you use the tool.
- After many charge/discharge cycles, your battery will lose its ability to hold a charge. It should then be replaced.

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



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 center maintain and lubricate the tool.
- Should the chuck require replacement,
    1. Remove the battery pack
    2. Open the chuck jaws as widely as possible so you can get at the chuck retaining screw.
    3. Unscrew the chuck retaining screw with a Phillips screwdriver. Note that this is a left-hand threaded screw and you remove it by turning it clockwise.
    4. Clamp the shorter arm of a large hex key wrench in the chuck, aligning it with the jaws so they grip three of the six flat sides.
    5. Place the drill on a flat surface, and support the chuck with a piece wood about 3/8” above that surface.

MAINTENANCE

6. Strike the long arm of the wrench with a hammer so that the chuck turns counter-clockwise and unscrews from the spindle. This may require a fairly sharp blow.
7. Repeat the process in reverse to install a new chuck.

- To maintain the best performance of your rechargeable NiCd battery, protect it from overheating, both from overcharging and during storage. Occasionally charge the battery for 7 hours. The battery may also benefit from a full discharge from time to time.

ACCESSORIES

89pcs ACCESSORIES

22pcs 1" Screwdriver bits：PH0，PH1，PH2，PH3， 1/8"，5/32 ",，3/16"，1/4" ，PZ0，PZ1，PZ2，PZ3，T10，T15，T20，T25，T27，T30，H2，H3，H4，H5

12pcs 2" Screwdriver bits：PH1，PH2， T10，T15，T20，PZ0，PZ1，PZ2，PZ3， 5/32 "，3/16"，1/4"

1pc 2-1/2" Magnetic bit holder

1pc 2" Socket holder

10pcs Wood working drill bits：1/8"，1/8"，5/32"，5/32"，3/16"，1/4"，9/32"，5/16"，11/32"，3/8"

10pcs HSS Twist drill bits：1/8"，1/8"，5/32"，5/32"，3/16"，1/4"，9/32"，5/16"，11/32"，3/8"

9pc 1/4" Sockets：3/16"，1/4"，9/32"，5/16"，11/32"，3/8"，7/16"，15/32"，1/2"

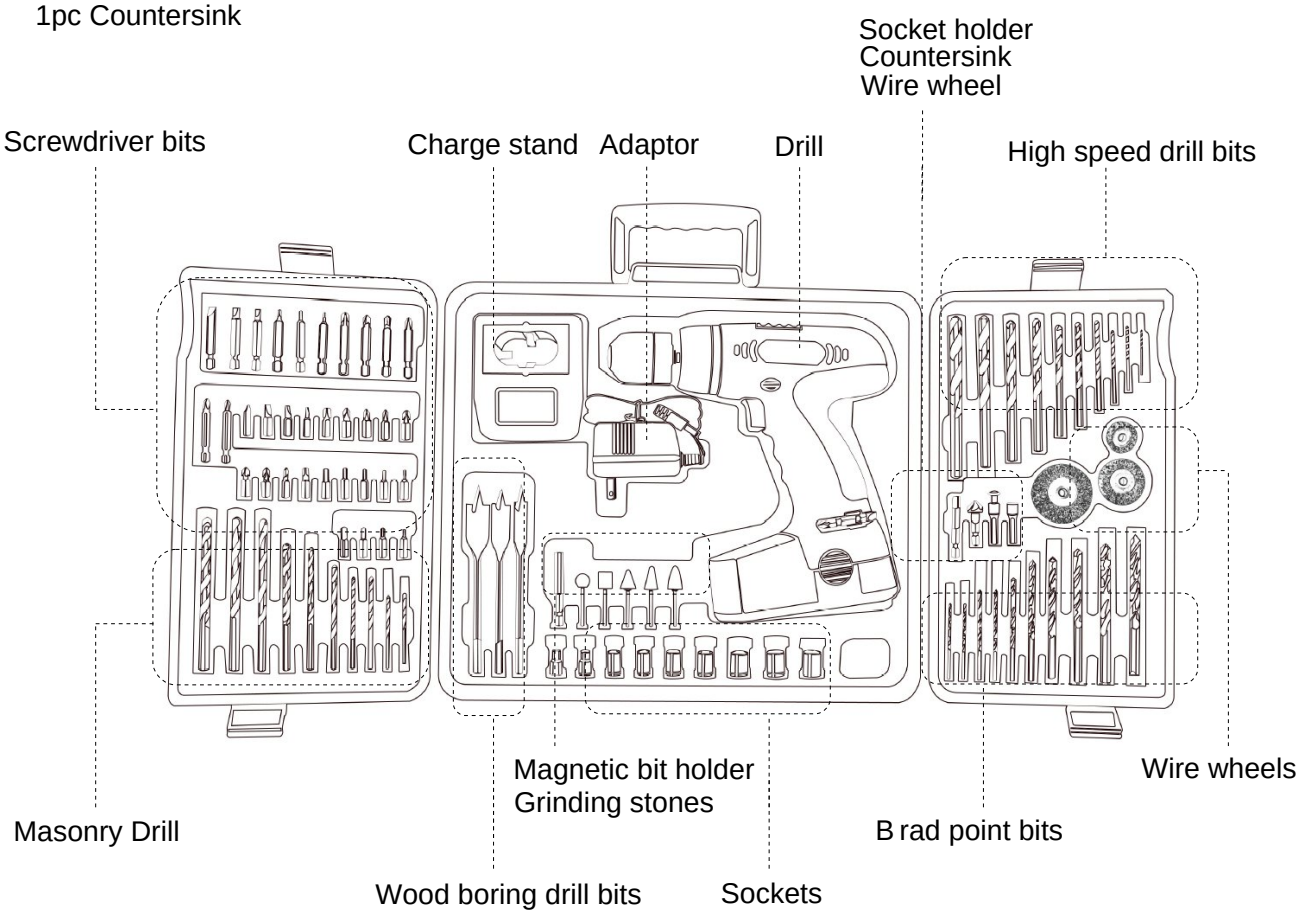
3pcs Wire wheel + 2pcs Arbor

3pcs Wood boring drill bits：7/16",5/8", 13/16"

10pcs Masonry Drill bits ：1/8"，1/8"，5/32"，5/32"，3/16"，1/4"，9/32"，5/16"，11/32"，3/8"

5pcs Grinding stone 1/4"

1pc Countersink

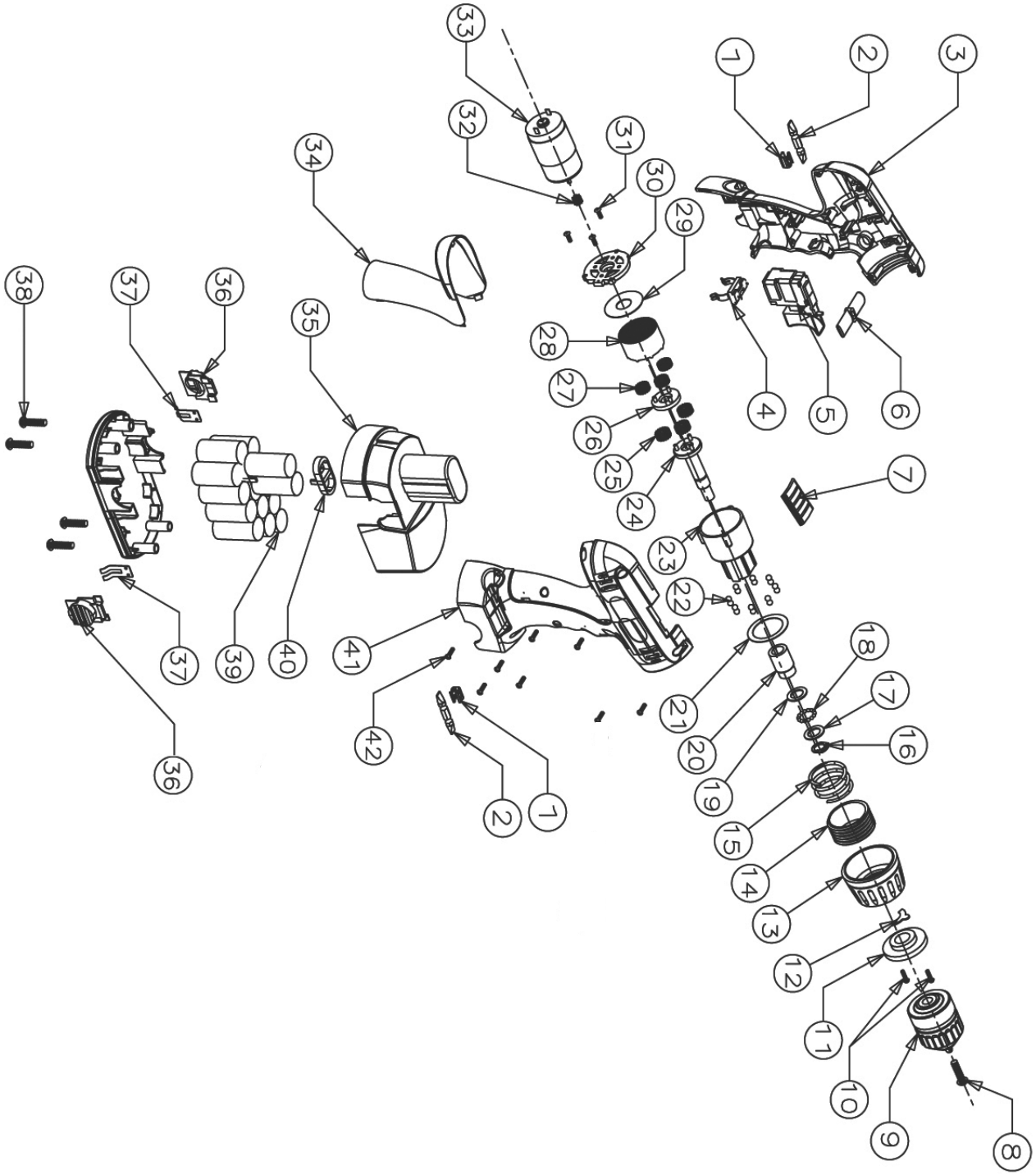


PARTS LIST

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
241-9904-1	Screwdriver bit clip	241-9904-22	Steel ball
241-9904-2	Double-ended screwdriver bit	241-9904-23	Gear box
241-9904-3	Housing(left)	241-9904-24	Shaft
241-9904-4	Battery clip	241-9904-25	Planet gear
241-9904-5	Trigger switch	241-9904-26	Star gear
241-9904-6	Forward/reverse button	241-9904-27	Planet gear
241-9904-7	Decorate block	241-9904-28	Inner gear
241-9904-8	Chuck retaining screw	241-9904-29	Washer
241-9904-9	Chuck	241-9904-30	Gear box cover
241-9904-10	Screws	241-9904-31	Screws
241-9904-11	Washer	241-9904-32	Motor gear
241-9904-12	Washer	241-9904-33	D.C. motor
241-9904-13	Torque setting ring	241-9904-34	Soft handle
241-9904-14	Ring	241-9904-35	Battery housing
241-9904-15	Spring	241-9904-36	Battery release button
241-9904-16	Snap ring	241-9904-37	Elastic clip
241-9904-17	Washer	241-9904-38	Screws
241-9904-18	Steel ball	241-9904-39	Battery
241-9904-19	Washer	241-9904-40	S-type spacer
241-9904-20	Bearing	241-9904-41	Housing(right)
241-9904-21	Washer	241-9904-42	Screw

Please refer to the schematic drawing on page 7.

SCHEMATIC DRAWING



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