

Definitions: Safety Alert Symbols and Words

This instruction manual uses the following safety alert symbols and words to alert you to hazardous situations and your risk of personal injury or property damage.



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**.



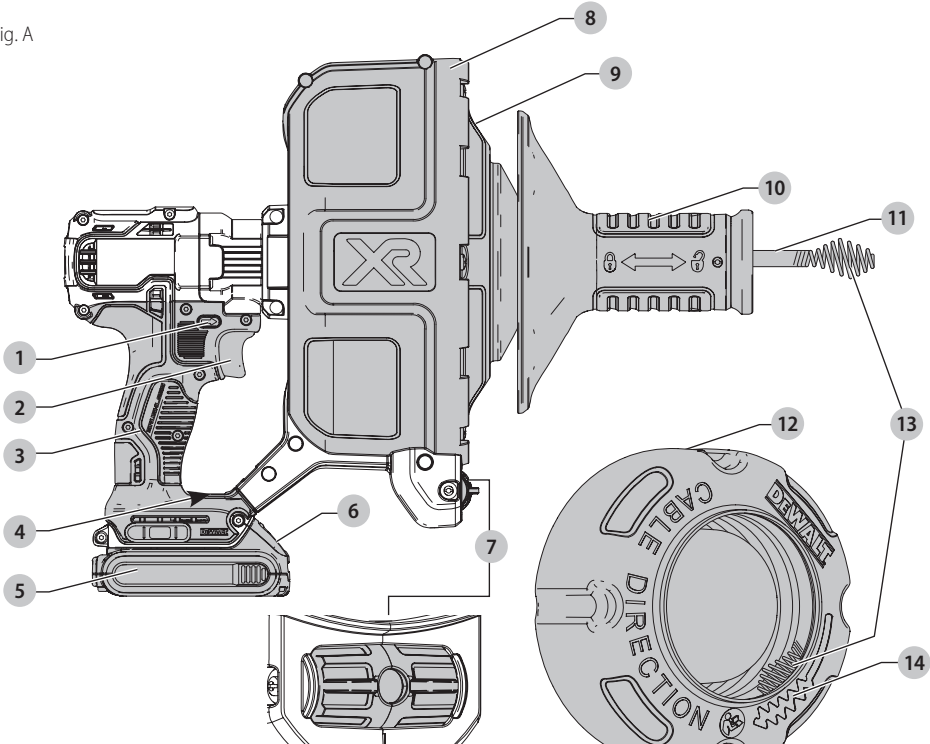
CAUTION: Indicates a potentially hazardous situation which, if not avoided, **may** result in **minor or moderate injury**.



(Used without word) Indicates a safety related message.

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

Fig. A



- 1 Forward/reverse control button
- 2 Variable speed trigger switch
- 3 Main handle
- 4 Worklight switch
- 5 Battery pack
- 6 Battery release button
- 7 Adjustable LED Worklight
- 8 Fixed drum shield
- 9 Drum cover
- 10 Front hand grip
- 11 Cable
- 12 Inner drum
- 13 Cable bulb end
- 14 Cable direction symbol



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.



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

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).

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

- a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- b) **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.
- c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical Safety

- a) **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.
- b) **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.
- c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d) **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.
- e) **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.
- f) **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

- a) **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.

- b) **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.
- c) **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 energizing power tools that have the switch on invites accidents.
- d) **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.
- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f) **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.
- g) **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

- a) **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.
- b) **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.
- c) **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.
- d) **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.
- e) **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) Battery Tool Use and Care

- a) **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- b) **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- c) **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws, or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
- d) **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.

6) Service

- a) **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 Rules for Drain Snake

- Only grasp the cable with snug fitting leather work gloves with latex gloves inside. Latex or loose fitting gloves or rags can become wrapped around the cable and may result in serious personal injury.
- Stop the tool immediately if the cable binds and stops. The cable can twist, kink or break if overstressed.
- Before starting work, know what is in the drain. Wear safety equipment appropriate for the job (goggles, face shields, protective clothing, respirator, etc.). Drains may contain hazardous chemicals or infectious substances that could cause serious injury. Contact the chemical manufacturers to get safety information.
- Do not eat or smoke while handling or operating the drain snake. After handling or operating drain snake, use hot, soapy water to wash hands and other body parts exposed to drain contents. This will help reduce the risk of health hazards due to exposure to hazardous chemicals or infectious substances.
- Inspect cable for wear and damage before use.
- If the cable is worn or damaged, replace the cable before using the drain snake.
- Do not twist, kink or over bend cables. A broken cable may result in serious personal injury.
- Refer to the **Cable Application Chart** to identify the appropriate size cable for the application. An incorrect cable can twist, kink or break if overstressed.

- The drain cleaning process can damage floors and other surfaces and can be messy. Use appropriate protective covers to prevent damage and hazards to surrounding area.
- The front of the drain snake should be no farther than 6" (15 cm) from drain opening. If not possible, use additional pipe and fittings to extend the drain. Exposing more than 6" (15 cm) of cable can cause twisting, kinking, breaking or whipping of the cable.
- This tool is intended to be used by a single operator, so that they alone are able to control feed and rotation of the cable. If the cable stops rotating, the user must immediately release the trigger to prevent twisting, kinking, breaking or whipping of the cable.
- Operate the drain snake in reverse rotation only as described in this manual. Running the tool in reverse for extended periods can cause damage to the cable.
- Do not pull the trigger with the end of the cable outside of the pipe.

Additional Safety Information



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.

ENGLISH

- For long storage, it is recommended to store a fully charged battery pack in a cool dry place out of the charger for optimal results.

NOTE: Battery packs should not be stored completely depleted of charge. The battery pack will need to be recharged before use.

SAVE THESE INSTRUCTIONS FOR FUTURE USE

COMPONENTS (FIG. A)

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

Refer to Figure A at the beginning of this manual for a complete list of components.

INTENDED USE

This drain snake is designed for professional drain cleaning applications.

DO NOT use under excessively wet conditions or in presence of flammable liquids or gases.

This drain snake is a professional power tool. **DO NOT** let children come into contact with the tool. Supervision is required when inexperienced operators use this tool.

Variable Speed Trigger Switch (Fig. A)

To turn the tool on, squeeze the trigger switch 2. To turn the tool off, release the trigger switch. The tool speed is controlled by varying the trigger position.

NOTE: Continuous use in variable speed range is not recommended. It may damage the switch and should be avoided.

Forward/Reverse Control Button (Fig. A)

A forward/reverse control button 11 determines the spin direction of the cable and also serves as a lock-off button. To select forward rotation, release the trigger switch and depress the forward/reverse control button on the right side of the tool.

To select reverse, release the trigger switch and depress the forward/reverse control button on the left side of the tool.

The center position of the control button locks the tool in the off position. When changing the position of the control button, be sure the trigger is released.

NOTE: The first time the tool is run after changing the direction of rotation, you may hear a click on start up. This is normal and does not indicate a problem.

NOTE: The tool must come to a complete stop before changing the tool's direction or running the tool in the opposite direction.

Front Handle/Cable Lock (Fig. A)

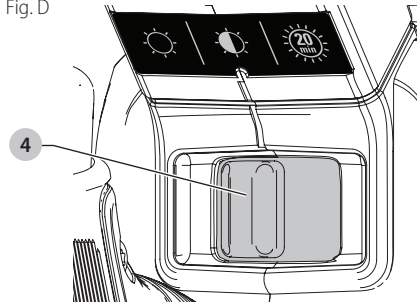
The front handle 10 has a lock position and unlock position. When pulled forward, the front handle will unlock allowing the cable to be pulled out of or pushed into the drum. When pulled backward, the front handle locks the cable into position.

Adjustable LED Worklight (Fig. A, D)

The adjustable LED worklight 7 (Fig. A) is located on the base of the fixed drum shield 8. The worklight switch 4 is located on the foot of the tool's main handle 3. The worklight is activated when the trigger switch is depressed. The low, medium and spotlight modes can be changed by moving the switch 4. If the trigger switch remains depressed, the worklight will remain on in all modes.

In low and medium settings, the beam will automatically turn off 20 seconds after the trigger switch is released.

Fig. D



Spotlight Mode

The high setting is the spotlight mode. The spotlight will run for 20 minutes after the trigger switch is released. Two minutes before the spotlight will shut off, it will flash twice and then dim. To avoid the spotlight shutting off, lightly tap the trigger switch.

WARNING: While using the worklight in medium or spotlight mode, do not stare at the light or place the tool in a position which may cause anyone to stare into the light. Serious eye injury could result.

CAUTION: When using the tool as a spotlight, be sure it is secured on a stable surface where it will not cause a tripping or falling hazard.

CAUTION: Fully retract the cable into the drum before using the tool as a spotlight. Personal injury or property damage could result.

Low Battery Warning

When in spotlight mode and the battery is nearing complete discharge, the spotlight will flash twice and then dim. After two minutes, the battery will be completely discharged and the tool will immediately shut down. At this point, replace with a fresh battery.

WARNING: To reduce the risk of injury, always have a back-up battery or secondary lighting available if the situation warrants it.

ASSEMBLY AND ADJUSTMENTS

WARNING: To reduce the risk of serious personal injury, turn unit off and remove the battery pack before making any adjustments or removing/installing attachments or accessories. An accidental start-up can cause injury.

Cable Removal from the Drain Snake and Cable Drum Installation

! **WARNING:** To reduce the risk of injury, wear safety goggles or glasses with side shields. Always wear leather gloves with latex gloves inside. The cable is under stress and can unwind unexpectedly. Cable end feature may be sharp.

Remove the cable for cleaning after each use.

To remove the cable:

1. Remove the battery pack from the tool.
2. Pull the front handle **10** out away from the tool to the unlocked position.
3. With the tool supported vertically, remove the four screws from the drum cover **9**.

! **WARNING:** The cable is under stress and can uncoil unexpectedly. Keep pressure on the drum cover so it does not uncoil.

4. Carefully lift the drum cover up, reach underneath to hold the cable firmly while pulling off the drum cover **9** and front handle **10** to expose the inner drum **12**.
5. Remove the cable from the drum cover and front handle and tuck it into the inner drum. Set the drum cover aside.
6. Carefully remove the inner drum with cable from the drain snake.
7. When cleaning the cable, carefully uncoil the cable from the inner drum. Refer to **Cleaning** under **Maintenance**.

To install the cable:

1. Remove the battery pack from the tool.
2. Pull the front handle **10** out away from the tool to the unlocked position.
3. Remove the four screws from the drum cover **9**.
4. Fully wind the clean, dry cable into the inner drum **12** following the cable direction symbol **14** (Fig. A).

! **WARNING:** Winding the cable in the wrong direction could cause the tool to apply excessive torque causing the cable to kink during bind up.

! **WARNING:** Never install a new cable by threading it through the front handle on the tool. Always disassemble the drum cover so you can be sure the cable is wound in the proper direction.

5. Place the inner drum with cable back into the tool.
6. Carefully pull the cable bulb end **13** out of the inner drum and feed it through the front handle.

! **WARNING:** The cable is under stress and can unwind unexpectedly. Keep pressure on the cable so it does not unwind.

7. Place the drum cover and front handle over the inner drum and reinstall the four screws. Tighten securely.

NOTE: If the unit is unbalanced and/or vibrates unnecessarily, the cable may be wound poorly.

OPERATION

! **WARNING:** To reduce the risk of serious personal injury, turn unit off and remove the battery pack before making any adjustments or removing/installing attachments or accessories. An accidental start-up can cause injury.

! **WARNING:** Always wear eye and other protective equipment appropriate to the task.

! **WARNING:** Always wear leather work gloves with latex gloves inside.

! **WARNING:** Do not operate if more than 6" (15 cm) of cable is outside of pipe or drum.

! **WARNING:** The cable can whip or tangle.

! **WARNING:** Do not hold cable while it is turning.

! **WARNING:** Cable end feature may be sharp.

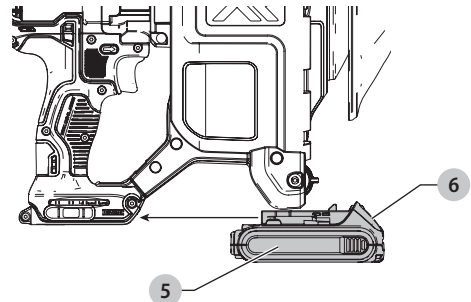
Installing and Removing the Battery Pack (Fig. D)

NOTE: For best results, make sure your battery pack is fully charged.

To install the battery pack **5** into the tool handle, align the battery pack with the rails inside the tool's handle and slide it into the handle until the battery pack is firmly seated in the tool and ensure that it does not disengage.

To remove the battery pack from the tool, press the release button **6** and firmly pull the battery pack out of the tool handle. Insert it into the charger as described in the charger section of this manual.

Fig. D



Proper Hand Position (Fig. E)

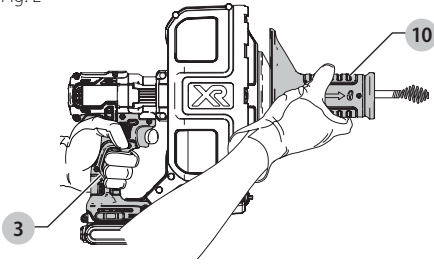
! **WARNING:** To reduce the risk of serious personal injury, ALWAYS use proper hand position as shown.

! **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 main handle **3** and one hand on the front handle grip **10**.

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Fig. E



Clearing a Drain

1. Put forward/reverse control button 1 in the center position.
2. Install the battery pack into the handle.
3. Move the forward/reverse control button 1 to the forward position.
4. Pull the front handle 10 out into the unlock position.
5. Pull at least 18" (46 cm) of the cable from the tool. Insert at least 12" (30 cm) of cable into the drain, leaving no more than 6" (15 cm) of the cable exposed.

WARNING: Do not operate if more than 6" (15 cm) of cable is exposed. Greater distance can cause twisting, kinking, breaking or whipping of the cable.

WARNING: Always wear leather work gloves with latex gloves inside when operating the drain snake.

WARNING: If the cable is stopped either by the blockage or the pipe so that the cable will not rotate, refer to the **To Unbind Drain Snake** section.

WARNING: If the cable is stopped from rotating due to a blockage or the pipe, release the trigger immediately.

WARNING: Only operate in reverse to remove the cable from an obstruction.

6. Continue to feed the cable out by hand into the pipe until it becomes difficult.
7. As feeding the cable becomes more difficult, move the front handle back to lock the cable with only 6" (15 cm) of cable exposed. With hands clear of the cable, pull the trigger to begin rotating the cable, and move the drain snake towards the drain opening to push the cable down the drain.
8. Release the trigger, move the front handle forward to unlock the cable, grip the cable with your gloved hand to prevent it from pulling out of the drain and pull the drain snake back so that no more than 6" (15 cm) of cable is exposed.

NOTE: The cable is not attached to the inner drum. Use care when feeding out the last 5 to 7 feet (1.5 m to 2.13 m) of the cable, to ensure that it does not come out of the machine.

9. Repeat the steps 6–8 to continue advancing the cable.

To Unbind Drain Snake

WARNING: Be sure the cable has come to a complete stop before setting to reverse position.

1. Set the front handle to the locked position and the forward/reverse switch to the reverse position.
2. Withdraw the tool a few inches while running slowly in reverse to free cable.
3. Stop the tool.
4. After the tool has come to a complete stop, switch back to the forward position.

CAUTION: Running the tool in reverse for extended periods can cause damage to the cable and accessories. Only operate in reverse to remove the cable from an obstruction.

Removing Cable From Drain

1. Set the front handle to the locked position.
2. Set the forward/reverse switch to the forward position.
3. Pull the trigger slightly and pull the tool back to remove about 6" (15 cm) of cable from the drain.
4. Release the trigger and lock the forward/reverse button in the center position.
5. Wipe the exposed cable with a rag, unlock the front handle and feed it back into the tool.
6. Repeat steps 1–5 until the cable is near the drain opening. Then feed the remaining cable back into the drum by hand.

WARNING: Never retract the cable bulb end from the drain opening while the cable is rotating. The cable could whip and cause serious injury.

NOTE: Before storing the tool, wash the cable and drum (refer to **Cleaning**).

HINT: It's useful to have a stream of water running through the line to wash fragments away while the machine is in operation and after. Avoid getting the motor, handle and battery wet.

Cable Application Chart

Cable Size	Pipe Size	Typical Applications
1/4" (6.35 mm)	3/4" to 1-1/2" (19 mm to 38 mm)	Sinks and bathtub drains
5/16" (8 mm)	1-1/4" to 2" (32 mm to 50 mm)	Sinks, wash tubs, small drains
3/8" (9.5 mm)	2" to 3" (50 mm to 76 mm)	Floor drains, stacks, toilets

The 1/4" (6.35 mm) and 5/16" (8 mm) diameter cables with a bulb end can be rotated through most strainer crossbars and work well in lines blocked by soft stoppages such as hair, soap, fats, etc.

Maximum Capacity: 50 ft. (15.2 m) of 1/4" (6.35 mm) and 5/16" (8 mm) cable and 35 ft. (10.7 m) of 3/8" (9.5 mm) cable.

MAINTENANCE

WARNING: To reduce the risk of serious personal injury, turn unit off and remove the battery pack before making any adjustments or removing/installing attachments or accessories. An accidental start-up can cause injury.