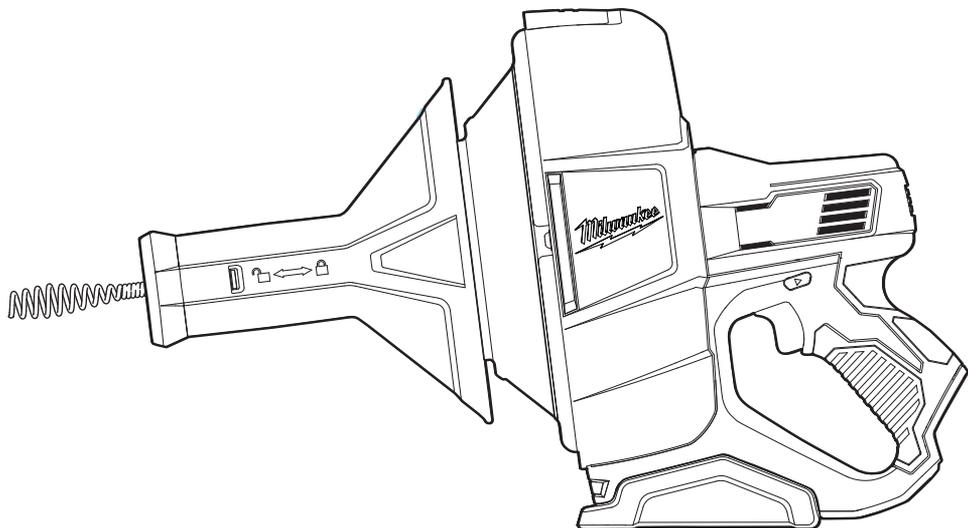




OPERATOR'S MANUAL



Cat. No.
M12 BDC8

M12™ DRAIN SNAKE

 **WARNING**

To reduce the risk of injury, user must read and understand operator's manual.



GENERAL POWER TOOL SAFETY WARNINGS

WARNING Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below 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.

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.

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 an GFCI reduces the risk of electric shock.

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 a 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 energizing 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 jewelry. Keep your hair and clothing away from moving parts.** Loose clothes, jewelry 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.
- **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

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 remove the battery pack, if detachable, 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 and accessories. 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.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **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.
- **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

BATTERY TOOL USE AND CARE

- **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.
- **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- **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.
- **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact ac-**

- accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 265°F (130°C) may cause explosion.
- **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

SERVICE

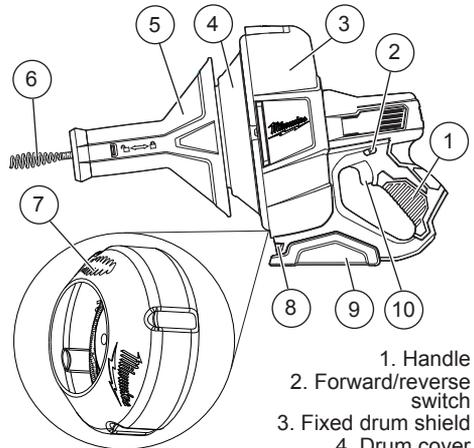
- **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
- **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

SPECIFIC SAFETY RULES FOR DRAIN SNAKE

- **Only grasp the rotating cable with gloves recommended by the manufacturer.** Latex or loose fitting gloves or rags can become wrapped around the cable and may result in serious personal injury.
- **Do not allow the cutter to stop turning while the cable is turning.** This can overstress the cable and may cause twisting, kinking or breaking of the cable and may result in serious personal injury.
- **Use latex or rubber gloves inside the gloves recommended by the manufacturer, goggles, face shields, protective clothing, and respirator when chemicals, bacteria or other toxic or infectious substances are suspected to be in a drain line.** Drains may contain chemicals, bacteria and other substances that may cause burns, be toxic or infectious or may result in other serious personal injury.
- **Practice good hygiene. Do not eat or smoke while handling or operating the tool. After handling or operating drain cleaning equipment, 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 toxic or infectious material.
- **Only use the drain cleaner for the recommended drain sizes.** Using the wrong size drain cleaner can lead to twisting, kinking or breaking of the cable and may result in personal injury.
- **Inspect cable for wear and damage before use.** Replace a worn or damaged cable before using the drain cleaner.
- **Do not twist, kink or over bend cables.** Breaking of the cable may result in serious personal injury.
- **Inspect the drain to be cleaned before use.** If possible, determine the access point(s) to the drain, the size(s) and length(s) of the drain, distance to mainlines, the nature of the blockage, presence of drain cleaning chemicals or other chemicals, etc. If chemicals are present in the drain, it is important to understand the specific safety measures required to work around those chemicals. Contact the chemical manufacturer for required information.
- **If needed, place protective covers in the work area.** The drain cleaning process can be messy.
- **Make sure cable is fully retracted inside of the drain cleaner.** This will prevent whipping at start up.

- **Place the drain cleaner at a distance no greater than six inches from drain opening. If the drain cleaner cannot be placed within six inches from the drain opening, the drain opening will need to be extended using a similar size pipe and fittings.** Greater distances can cause control problems leading to twisting, kinking, breaking or whipping of the cable.
- **One person must control both the trigger switch and cable.** If the tool stops rotating, the user must be able to turn the tool off to prevent twisting, kinking, breaking or whipping of the cable.
- **Do not operate the drain cleaner in reverse rotation except as described in this manual.** Running the tool in reverse for extended periods can cause damage to the cable and accessories.
- **Maintain labels and nameplates.** These carry important information. If unreadable or missing, contact a MILWAUKEE® service facility for a replacement.
- **⚠WARNING** Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
 - lead from lead-based paint
 - 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.

FUNCTIONAL DESCRIPTION



1. Handle
2. Forward/reverse switch
3. Fixed drum shield
4. Drum cover
5. Front handle/Slide action cable lock
6. Cable
7. Inner drum (Internal)
8. LED
9. Flat tool base
10. Trigger switch

SPECIFICATIONS

Cat. No.	M12 BDC8
Volts.....	12 DC
No Load RPM.....	0 - 500
Battery Type	M12™
Charger Type.....	M12™

SYMBOLOLOGY



Volts



Direct Current

n_0 xxxxmin.⁻¹ No-Load Revolutions per Minute (RPM)



Only wear leather gloves



Regulatory Compliance Mark (RCM).
Product meets applicable regulatory requirements.

ASSEMBLY

⚠WARNING Recharge only with the charger specified for the battery. For specific charging instructions, read the operator's manual supplied with your charger and battery.

Removing/Inserting the Battery

To remove the battery, push in the release buttons and pull the battery pack away from the tool.

⚠WARNING Always remove battery pack before changing or removing accessories.

To insert the battery, slide the pack into the body of the tool. Make sure it latches securely into place.

⚠WARNING Only use accessories specifically recommended for this tool. Others may be hazardous.

Always store tool in its bucket with insert to avoid damage to the cable.

Selecting the Proper Cable

Cat. No.	Cable Size	Cable Style	Pipe Diameter
48-53-2571	5/16" x 25' (7.9mm x 7.6m)	Bulb	1 1/4" to 2 1/2"
48-53-2572	5/16" x 25' (7.9mm x 7.6m)	Drop Head	1 1/4" to 2 1/2"
48-53-2573	1/4" x 25' (6.3mm x 7.6m)	Bulb	1 1/4" to 2"
48-53-2574	1/4" x 25' (6.3mm x 7.6m)	Drop Head	1 1/4" to 2"

CAUTION To prevent damage to the cable, do not use in larger diameter pipes.

Cable Installation

⚠WARNING To reduce the risk of injury, wear safety goggles or glasses with side shields. Always wear leather gloves. The cable is under pressure and can uncoil unexpectedly. Cable tip may be sharp.

Remove the cable for cleaning after each use. Different size and types of cables are available for different applications.

To remove the cable:

1. Remove the battery pack and set the front handle to the unlocked position  by pulling it out, away from the tool.

2. Remove the four screws from the drum cover. **WARNING!** The cable is under pressure and can uncoil unexpectedly. Keep pressure on the cable so it does not uncoil.
3. Hold the cable firmly from under the drum cover while pulling off the front handle. The inner drum will be exposed.
4. Feed the cable carefully back through the front handle and tuck it into the inner drum. Set the front handle aside.
5. Remove the inner drum with cable from the tool.
6. When cleaning or maintaining the cable, carefully uncoil the cable from the inner drum. Follow the cleaning instructions under "Maintenance".

To install the cable:

1. Remove the battery pack and set the front handle to the unlocked position  by pulling it out, away from the tool.
2. Fully wind the clean, dry cable into the inner drum in the direction of the arrow.
3. Place the inner drum with cable back into the tool.
4. Carefully pull the cable tip out of the inner drum and feed it through the front handle. **WARNING!** The cable is under pressure and can uncoil unexpectedly. Keep pressure on the cable so it does not uncoil.
5. Place the front handle over the inner drum and reinstall the four screws. Tighten securely.
6. Remove the protective tip cover from new cables before use.

OPERATION

⚠WARNING Always remove battery pack before changing or removing accessories. Only use accessories specifically recommended for this tool. Others may be hazardous.

To reduce the risk of injury, wear safety goggles or glasses with side shields. Always wear leather gloves.

Using Forward/Reverse Switch

1. For **forward** (clockwise) rotation, push in the forward/reverse switch from the right side of the tool . Check the direction of rotation before use.
2. For **reverse** (counterclockwise) rotation, push in the forward/reverse switch from the left side of the tool . Check direction of rotation before use.
3. To **lock** the trigger, push the forward/reverse switch to the center position. The trigger will not work while the forward/reverse switch is in the center locked position. Always lock the trigger or remove the battery pack before performing maintenance, changing accessories, storing the tool and any time the tool is not in use.

Starting, Stopping and Controlling Speed

This tool may be used at any speed from 0 RPM to full speed.

1. To start the tool, pull the trigger.
2. To vary the driving speed, increase or decrease pressure on the trigger. The further the trigger is pulled, the greater the speed.
3. To stop the tool, release the trigger.

Inserting Cable Into Drain

1. Set the front handle to the unlocked position  and the forward/reverse switch to the forward position .

- Pull at least 450 mm of the cable from the tool. Insert at least 300 mm of cable into the drain, placing the drain cleaner no more than 150mm from the drain opening. **WARNING!** Greater distance can cause twisting, kinking, breaking or whipping of the cable.



NOTE: To avoid fatigue or to free a hand for easier cable feeding, the tool can be placed on the flat tool base during use.

- Pull the trigger to begin rotating the cable.

NOTE: The cable can be fed without pulling the trigger, but it may feed more easily while rotating.

- WARNING!** Wear leather gloves. Grasp the cable close to the tool and feed it into the drain about 150 mm at a time until the obstruction is reached.

NOTE: The cable is not attached to the inner drum. Use care to insure that it does not come out of the tool. There is a cable end indicator bulb approximately 1 m away from the rear end of the cable to indicate a low remaining distance.

- When the clog is reached, pull the front handle into the locked position . Move the tool and cable in a back and forth motion until the obstruction is cleared. If the tool binds, release the trigger immediately. Repeat until the drain is clear.

To Unbind Drain Snake

- Set the front handle to the unlocked position  and the forward/reverse switch to the reverse position .
- Withdraw the tool a few inches while in reverse to free the cable.
- Stop the tool.
- 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.

Removing Cable From Drain

- Set the front handle to the unlocked position  and the forward/reverse switch to the forward position .
- Pull the trigger slightly and pull the tool back to remove about 300 mm of cable from the drain.
- Release the trigger.
- Wipe the exposed cable with a rag and feed it back into the tool.
- Repeat steps 2-4 until the cable is free from the drain.
- Before storing the tool, wash the cable and drum (see "Cleaning Cables, Drums and Buckets" in Maintenance).

MAINTENANCE

WARNING To reduce the risk of injury, always unplug the charger and remove the battery pack from the charger or tool before performing any maintenance. Never disassemble the tool, battery pack or charger. Contact a MILWAUKEE® service facility for ALL repairs.

Maintaining Tool

Keep your tool, battery pack and charger in good repair by adopting a regular maintenance program. Inspect your tool for issues such as undue noise, misalignment or binding of moving parts, breakage of parts, or any other condition that may affect the tool operation. Return the tool, battery pack, and charger to a MILWAUKEE® service facility for repair. After six months to one year, depending on use, return the tool, battery pack and charger to a MILWAUKEE® service facility for inspection. If the tool does not start or operate at full power with a fully charged battery pack, clean the contacts on the battery pack. If the tool still does not work properly, return the tool, charger and battery pack, to a MILWAUKEE® service facility for repairs.

WARNING To reduce the risk of personal injury and damage, never immerse your tool, battery pack or charger in liquid or allow a liquid to flow inside them.

Cleaning

Clean dust and debris from vents. Keep handles clean, dry and free of oil or grease. Use only mild soap and a damp cloth to clean, since certain cleaning agents and solvents are harmful to plastics and other insulated parts. Some of these include gasoline, turpentine, lacquer thinner, paint thinner, chlorinated cleaning solvents, ammonia and household detergents containing ammonia. Never use flammable or combustible solvents around tools.

Cleaning Cables, Covers, Drums and Buckets

Cables, covers, drums and buckets should be thoroughly flushed with water after every use to prevent damaging effects of sediment and drain cleaning compounds. **WARNING!** Wear leather gloves. After washing, dry the cable, cover and drum completely. Then, wipe cable with an oiled rag before returning it to the drum according to the instructions in "Cable Installation".

Repairs

For repairs, return the tool, battery pack and charger to the nearest service center.

ACCESSORIES

WARNING Use only recommended accessories. Others may be hazardous.

For a complete listing of accessories refer to your MILWAUKEE® Tool catalog or go online to www.milwaukeetools.com.au / www.milwaukeetools.co.nz. To obtain a catalog, contact your local distributor or a service centre.

WARRANTY - AUSTRALIA and NEW ZEALAND

Please refer to Australian and New Zealand warranty supplied with tool. This warranty applies only to product sold in Australia and New Zealand.

SERVICE - AUSTRALIA and NEW ZEALAND

MILWAUKEE[®] prides itself in producing a premium quality product that is Nothing But Heavy Duty[®]. Your satisfaction with our products is very important to us! If you encounter any problems with the operation of this tool, please contact your authorised *MILWAUKEE*[®] dealer.

For a list of *MILWAUKEE*[®] dealers, guarantee or service agents please contact *MILWAUKEE*[®] Customer Service or visit our website.

(Australia Toll Free Telephone Number 1300 361 505)

(New Zealand Toll Free Telephone Number 0800 279 624)

or visit www.milwaukeetools.com.au / www.milwaukeetools.co.nz.

Milwaukee Electric Tool Corporation

13135 West Lisbon Road, Brookfield, Wisconsin U.S.A. 53005

Milwaukee Electric Tool Corporation (Australia)

Techtronic Industries (Australia) Pty. Ltd.

Rowville, Victoria, Australia, 3178

Milwaukee Electric Tool Corporation (New Zealand)

Techtronic Industries (New Zealand) Pty. Ltd.

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