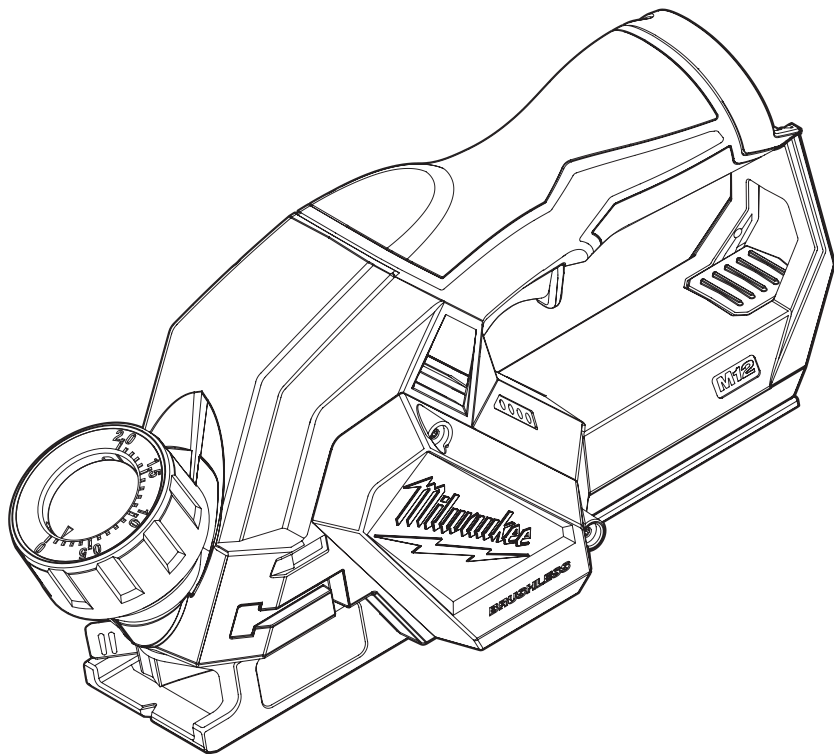





OPERATOR'S MANUAL



Cat. No.
M12 BLP

M12 BRUSHLESS PLANER

 **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 residual current device (RCD) protected supply.** Use of a RCD 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 energising 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 jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery 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 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 behaviour 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 130°C (265°F) 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 authorised service providers.

SPECIFIC SAFETY RULES FOR PLANERS

Planer safety warnings:

•Wait for the cutter to stop before setting the tool down. An exposed rotating cutter may engage the surface leading to possible loss of control and serious injury.

•Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the work by your hand or against the body leaves it unstable and may lead to loss of control.

•Inspect and remove nails from the workpiece before cutting. Nails will damage the tool and could result in fragments of nail or blade being thrown toward the operator.

•Use only sharp, properly paired planer blades. Always change blades in pairs. Dull or improperly paired blades may cause binding, gouging, or loss of control, causing injury.

•Keep hands and body away from blades. Hold tool securely with both hands. Contact with blade will result in serious injury.

•Blades are sharp. Use care when changing or adjusting blades.

•Before use, ensure blade bolts are tight and blades are properly aligned. Run the tool to check for vibration or “wobble” that could indicate improperly installed blades.

•Keep hands and fingers away from dust chute. Turn off tool and remove battery pack before clearing jams.

•Maintain labels and nameplates. These carry important information. If unreadable or missing, contact a MILWAUKEE® service facility for a replacement.

AWARNING 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.

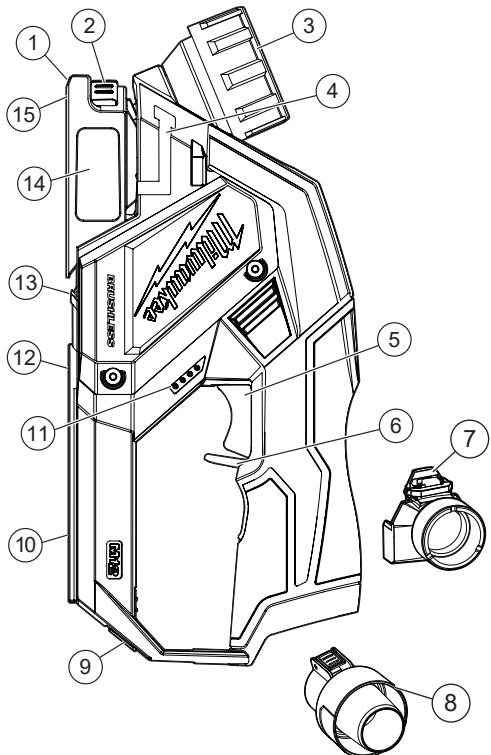
Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

ADDITIONAL BATTERY SAFETY RULES

AWARNING To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your tool, battery pack or charger in fluid or allow a fluid to flow inside them. Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach-containing products, etc., can cause a short circuit.







AWARNING Do not charge non-rechargeable batteries.

FUNCTIONAL DESCRIPTION



- | | |
|-----------------------------------|----------------------------|
| 1. Chamfer groove (not shown) | 8. Vacuum port |
| 2. Shavings diverter | 9. Blade and tool storage |
| 3. Depth adjustment knob | 10. Kickstand (not shown) |
| 4. Vacuum adapter track | 11. Fuel gauge |
| 5. Trigger | 12. Rear shoe |
| 6. Trigger lock-off | 13. Blade clamp |
| 7. Shavings collection attachment | 14. Shavings ejection area |
| | 15. Front shoe |

SYMBOLOLOGY

-  Volts
-  Direct Current
-  Wear eye protection.
-  Keep hands away from the blade.
-  Read Operator's Manual
-  Regulatory Compliance Mark (RCM). This product meets applicable regulatory requirements.

Do not dispose of electric tools together with household waste material. Electric tools and electronic equipment that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.



SPECIFICATIONS

Cat. No.	M12 BLP
Volts.....	12V DC
Battery Type.....	M12™
Charger Type.....	M12™
No Load RPM.....	13,000 - 14,500
Max Planing Depth.....	2 mm
Max Planing Width.....	56 mm
Max Rabbeting Depth.....	17.8 mm
Recommended Ambient Operating Temperature.....	-17°C to 51°C

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.

Inserting/Removing the Battery

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.

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

⚠WARNING Always lock the trigger or remove the battery pack any time the tool is not in use.

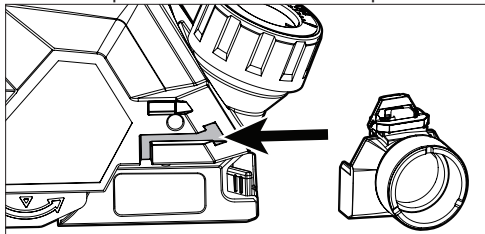
To reduce the risk of injury, always wear proper eye protection marked to comply with AS/NZS 1337.1.

Dust from surface coatings such as polyurethanes, linseed oil, etc., can self-ignite. To reduce the risk of fire, empty the shavings bag when it becomes about half-full and never store or leave a planer without totally emptying its shavings bag. Also follow the recommendations of the coatings manufacturers.

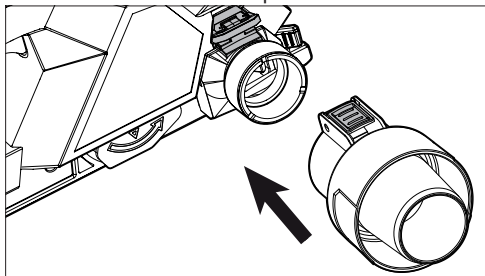
Shavings Collection

Use a connected running vacuum when using the planer to keep the workplace clean.

1. Switch the shavings diverter to the left or right, depending on the job.
2. Slide the included shavings collection attachment onto the planer. Ensure it clicks into place.



3. Attach the included vacuum port to the shavings collection attachment by pushing down on the lever on the vacuum adapter.

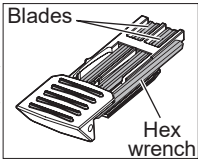


4. Attach a vacuum hose (31.7 mm, 47.6 mm or 63.5 mm diameter) onto the vacuum port.
5. To remove the vacuum and adapter, pull the hose off the vacuum port and push the lever on the adapter and pull to remove from the shavings collection attachment.

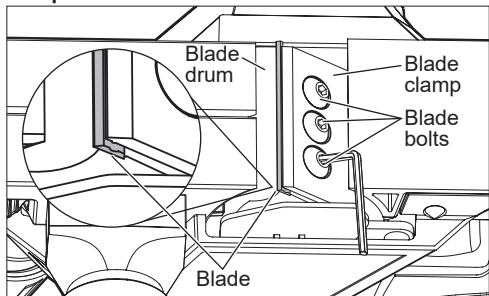
⚠WARNING Blades are sharp and fragile. Handle with care. Laceration and/or damage to the blade can occur.

Installing/Replacing Blades

The planer blades have two cutting edges, and may be reversed when one of the cutting edges becomes dull or chipped. Do not sharpen planer blades. Always change/reverse blades in pairs. Use only 56mm, tungsten-carbide or carbide, double-edged (reversible) planer blades.



⚠WARNING Always change/reverse blades in pairs. Unpaired blades can cause increases in vibration, loss of control, and lower tool performance.



To **remove** blades:

1. Remove battery pack.
2. Clean dust and debris from the blade drum.
3. Using the 3mm hex wrench provided, loosen (do not remove) the three blade bolts.
4. Using a scrap piece of wood, slide the old blade out of the blade clamp.

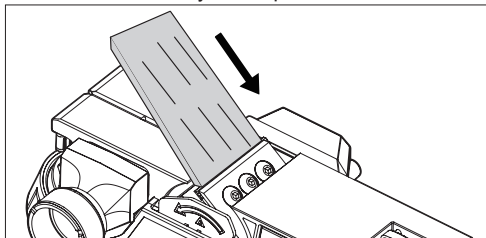
NOTE: If the blade is difficult to remove, clean the blade and blade clamp with alcohol, mineral spirits, or lacquer thinner.

5. Rotate the blade drum and repeat for other blade.

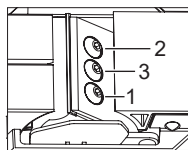
To **install** blades:

1. Remove battery pack.
2. Reverse blades or use new blades.
3. Align the groove on the top of the blade with the ridge of the blade clamp and carefully slide the blade onto the drum.
4. Center the blade lengthwise - it will overhang the blade clamp slightly on both sides.

5. Using a block of wood, push the blade back towards the blade clamp so that the inner side of the blade is pressed against the step on the drum. This will ensure proper alignment to reduce tool vibration and verify the depth of cut is accurate.



6. Using a torque wrench, tighten all three blade bolts to at least 2 Nm.



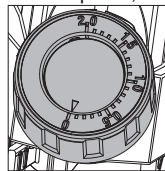
7. Verify torque of all bolts again now that the blade is secured into place.

⚠WARNING Improperly tightened blade bolts may result in loosened blades, which could cause injury or damage to the tool or workpiece.

8. Rotate blade drum and repeat for other blade.
9. Once installed, rotate the blade drum to ensure the blade does not contact the shoe or housing, and that the blades are both installed straight.

Adjusting the Depth of Cut

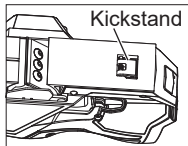
1. Remove battery pack.
2. Determine the amount of material to be removed during each pass of the planer. Take into account the moisture and hardness of the workpiece, as well as the desired feed rate.
3. Each detent is 0.010mm. Turn the knob clockwise to increase the depth of cut, counterclockwise to decrease the depth of cut. Do not change the depth of cut while planing.



4. Make a test cut. If the planer moves easily through the workpiece, increase the depth of cut. If the planer seems to strain, decrease the depth of cut.

Closing the Kickstand

The kickstand is provided to protect the blade when the tool is set down. It is pushed up automatically during a normal planing operation. To open the kickstand manually, slide it to the side and it will automatically spring open. To close the kickstand manually, push closed and slide to the side.

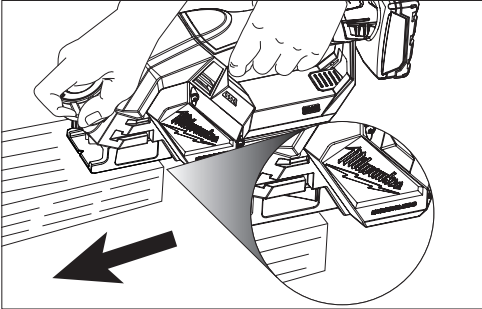


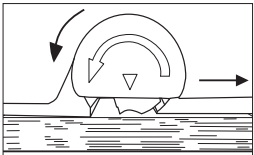
OPERATION

⚠WARNING To reduce the risk of injury, always wear proper eye protection marked to comply with AS/NZS 1337.1. When working in dusty situations, wear appropriate respiratory protection or use a suitable dust extraction solution.

Operation

1. Remove battery pack.
2. Check blades. Replace if necessary.
3. Turn the shavings diverter to the desired side. Attach the vacuum on the appropriate side of the tool, if desired.
NOTE: Only attach the shavings collection attachment if using the dust collection methods.
4. Clamp work securely.
5. Insert battery pack.
6. Securely grasp the tool by the handle and the depth adjustment knob.
7. Line up the front of the tool with the workpiece. **WITHOUT** contacting the blade drum to the workpiece, press down on the trigger lock-off and pull the trigger. Wait for the tool to come to full speed before beginning to avoid overloading and damaging the tool.



8. Keeping the front shoe flush with the workpiece, use gentle pressure to guide the planer. All pressure should be on the front shoe when starting the cut. Transfer downward pressure to the rear shoe as it contacts the workpiece.
NOTE: Too much pressure will result in uneven planing.
9. For best results, push planer through the workpiece at an even rate. Do not push too fast as it will strain the motor and could damage the blades. Do not pull the planer backward over the workpiece.

Slow feed + shallow depth of cut = smooth finish
Faster feed + deep depth of cut = rough finish
10. When finished with the pass, lift the planer away from the workpiece. Wait for the blade to come to a complete stop before setting down.
11. Continue using progressive cuts until near the desired depth. Set the adjustment knob to a very shallow depth for the final passes. This will ensure a smooth finish.

12. If chute becomes clogged, remove battery pack and clear all dust and debris.

⚠WARNING Keep hands and fingers away from dust chute. Turn off tool and remove battery pack before clearing jams.

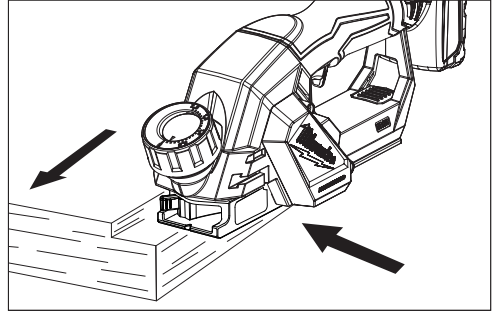
Types of Cuts



Rabbeting, Shiplapping

Rabbeting, or shiplapping, is a type of step cut achieved by making repetitive passes.

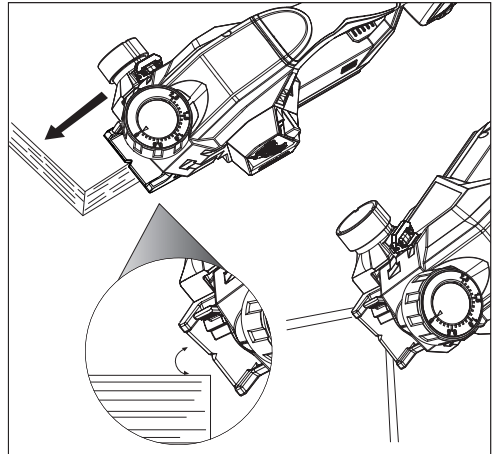
1. Align the blade edge with the cutting line.
2. At an even rate, slide the planer along the workpiece.
3. Repeat until the desired depth is reached. Maximum rabbeting depth is 17.8mm. Maximum rabbeting width is 56mm.



Chamfering

Chamfering is a type of angle cut.

1. Align the chamfer groove in the front shoe with the edge of the workpiece at the desired angle.
2. At an even rate, slide the planer along the workpiece.
3. Repeat until the desired chamfer is reached.



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 repair.

Cleaning

Clean dust and debris from any vents. Keep tool 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 petrol, turpentine, lacquer thinner, paint thinner, chlorinated cleaning solvents, ammonia and household detergents containing ammonia. Never use flammable or combustible solvents around tools.

Repairs

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

ACCESSORIES

⚠WARNING Use only recommended accessories. Others may be hazardous.

For a complete listing of accessories, go online to milwaukeetool.com.au/milwaukeetool.co.nz. or contact a distributor.

WARRANTY - AUSTRALIA and NEW ZEALAND

Please refer to Australian and New Zealand warranty supplied with tool. This warranty applies only to product sold by authorised dealers 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 645 928)

(New Zealand Toll Free Telephone Number 0800 645 928)

or visit milwaukeetool.com.au/milwaukeetool.co.nz.

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