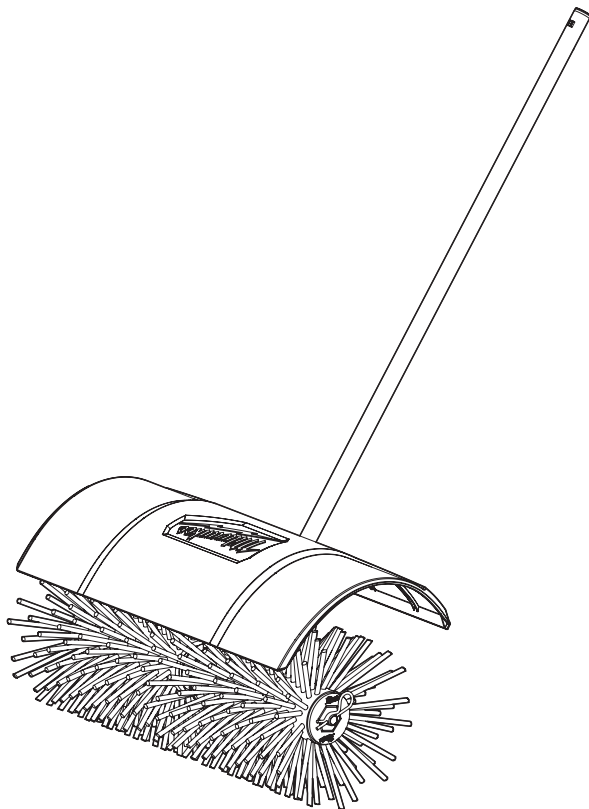





OPERATOR'S MANUAL



Cat. No.  
**M18 FOPH BBA**

**M18 FUEL™ BRISTLE BRUSH ATTACHMENT**

 **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 BRISTLE BRUSHES

- **Before use, read this manual, and all manuals and labels of this tool and its power head. Failure to follow the warnings and instructions may result in serious injury. Use tool only as described in this manual. Use only attachments recommended by MILWAUKEE®.**
- **Do not use the tool in bad weather conditions, especially when there is a risk of lightning.** This decreases the risk of being struck by lightning.
- **Thoroughly inspect the area for wildlife where the tool is to be used.** Wildlife may be injured by the tool during operation.
- **Thoroughly inspect the area where the tool is to be used and remove all stones, sticks, wires, bones, and other foreign objects.** Thrown objects can cause personal injury.
- **Wear eye, ear, head and hand protection.** Adequate protective equipment will reduce personal injury by flying debris or accidental contact with the brush.
- **While operating the tool, always wear safety footwear. Do not operate the tool when barefoot or wearing open sandals.** This reduces the chance of injury to the feet from contact with a moving broom.
- **While operating the tool, always wear long trousers.** Exposed skin increases the likelihood of injury from thrown objects.
- **Keep bystanders away while operating the tool.** Thrown debris can result in serious personal injury.
- **Always use two hands when operating the tool.** Holding the tool with both hands will avoid loss of control.
- **Always keep proper footing and operate the tool only when standing on the ground.** Slippery or unstable surfaces may cause a loss of balance or control of the tool.

- **When working on slopes, always be sure of your footing, always work across the face of slopes, never up or down and exercise extreme caution when changing direction.** This reduces the risk of loss of control, slipping and falling which may result in personal injury.
- **Keep all parts of the body away from the broom when the tool is operating. Before you start the tool, make sure the broom is not contacting anything.** A moment of inattention while operating the tool may result in injury to yourself or others.
- **Maintain control of the tool and do not touch broom and other hazardous moving parts while they are still in motion.** This reduces the risk of injury from moving parts.
- **Carry the tool with the tool switched off and away from your body.** Proper handle of the tool will reduce the likelihood of accidental contact with a moving broom.
- **Only use replacement brushes specified by the manufacturer.** Incorrect replacement parts may increase the risk of breakage and injury.
- **Do not use an attachment extension with this tool attachment. The additional length will make this attachment difficult to control and could cause injury.**
- **When using this attachment with larger-capacity battery packs, use the shoulder strap to reduce user fatigue and help in maintaining control of the tool during use.**
- **Do not wear multiple shoulder straps simultaneously. When wearing a shoulder strap, ensure that no other wearable interferes with the release and removal of the strap.**
- **Do not use the tool near anything that is burning or smoking such as cigarettes, matches, or hot ashes.**
- **To reduce the risk of health hazards from vapors or dust, do not use tool near toxic, carcinogenic or other hazardous materials such as asbestos, arsenic, barium, beryllium, lead, pesticides or other health endangering materials.**
- **Use care when using around decorative plants and other obstacles.** Accessories will cut/damage many materials.
- **Do not operate the tool without the guard in place. The guard must be attached properly during use.** Operating the tool without the guard will cause serious injury.
- **Do not use tool with a damaged brush.** Cracked or broken pieces can be thrown.
- **Do not operate the tool without the front handle in place. The front handle must be attached properly during use. Use both hands when operating the tool, according to the attachment instructions. Maintain a firm grip.** Using one hand could cause loss of control and result in serious injury.
- **Brace for unexpected movement when contact is made with a hard object.** Loss of control could result in serious injury.
- **Thrown objects may ricochet off of hard surfaces, such as walls, trees, and rocks and cause injury.** When possible, do cleaning by hand in closed in areas.
- **Always turn off the tool when transporting from one location to another.** Do not carry tool with finger on the trigger. Accidental starting can cause serious personal injury.
- **Do not immerse in water or spray with a hose. Do not clean with a pressure washer.** Water entering a power tool will increase the risk of electric shock. Store tool indoors.

- Always turn off the tool and then remove battery pack before changing or removing accessories.
- Always use common sense and be cautious when using tools. It is not possible to anticipate every situation that could result in a dangerous outcome. Do not use this tool if you do not understand these operating instructions or you feel the work is beyond your capability; contact MILWAUKEE® Tool or a trained professional for additional information or training.
- 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:

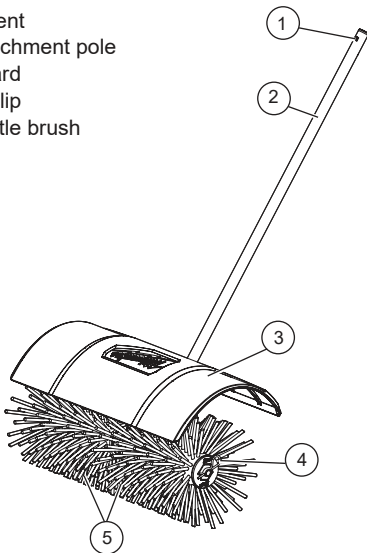
- lead from lead-based paint
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

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.

## READ AND SAVE ALL INSTRUCTIONS FOR FUTURE USE

### FUNCTIONAL DESCRIPTION

1. Detent
2. Attachment pole
3. Guard
4. R-Clip
5. Bristle brush



### SPECIFICATIONS

Cat. No. .... M18 FOPH BBA  
 Power Head ..... M18 FOPH  
 Clearing Width ..... 585 mm  
 Operating speed... Low: 150 RPM; High: 200 RPM

### 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.

### SYMBOLGY



Volts



Direct Current



Safety Alert Symbol



Read operator's manual



Always wear eye protection and use proper personal protective equipment.



Wear protective footwear



Wear protective gloves



Beware of brush thrust



Beware of thrown objects



The distance between the tool and bystanders shall be at least 5 m (16 ft).



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.

## ASSEMBLY

**⚠WARNING** Before use, read manual and labels of the power head. Important assembly and use instructions are provided in the power head manual. Connect the attachment to the power head in accordance with the power head manual.

Do not operate the tool without the guard in place. The guard must be attached properly during use. Operating the tool without the guard will cause serious injury.

Always remove battery pack before changing or removing accessories.

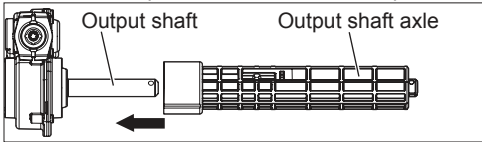
Do not use tool with a damaged brush. Cracked or broken pieces can be thrown.

### Installing/Removing the Brushes

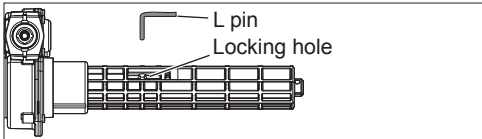
The bristle brushes are shipped uninstalled and must be installed before use.

To **install** the brushes:

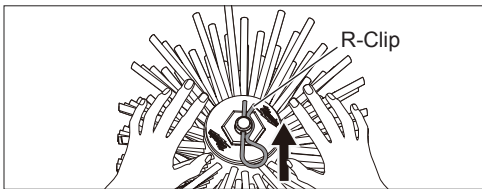
1. Remove battery pack.
2. Push the output shaft axle onto the output shaft.



3. Insert the L pin in the orientation shown into the locking hole of the output shaft until it is retained. This will secure the axle onto the shaft.



4. Repeat Steps 2-3 on the other output shaft axle.
5. Push the bristle brush onto the output shaft axle.
6. Insert the R-Clip onto the locking hole to secure the broom to the axle.



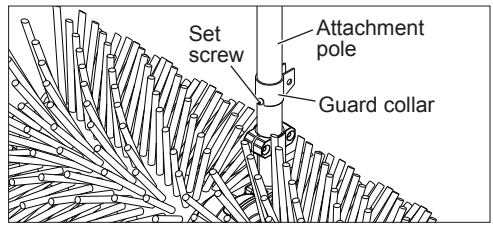
7. Repeat Steps 5-6 on the other output shaft axle.
- To **remove** the brushes:

1. Remove battery pack.
  2. Remove the R-Clip from the locking hole.
  3. Remove the bristle brush from the output shaft axle.
  4. Repeat Steps 2-3 on the other output shaft axle.
- NOTE:** To ensure an even application, both brushes should be replaced at the same time.

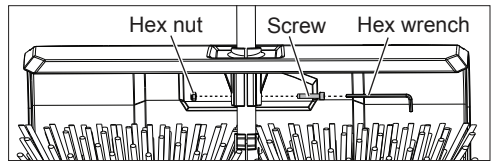
### Installing the Guard

The guard is shipped uninstalled and must be installed before use.

1. Push the guard collar down the attachment pole until the collar locks in place against the set screw.



2. Push the guard down the attachment pole.
3. Line up the guard with the hole in the guard collar.
4. Put the hex nut in place, and then insert the screw through the guard and into the collar.
5. Tighten the screw securely using the included hex wrench.



### Attaching the Shoulder Strap

(Available as a service part. Cat. No. 204350021)

**⚠WARNING** Do not wear multiple shoulder straps simultaneously. When wearing a shoulder strap, ensure that no other wearable interferes with the release and removal of the strap.

When using this attachment with larger-capacity battery packs, use the shoulder strap to reduce user fatigue and help in maintaining control of the tool during use.

To **install** the strap:

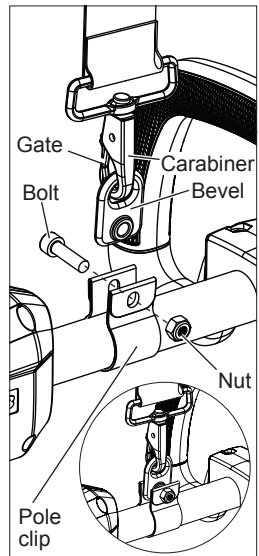
1. Remove the battery pack.
2. Fit the pole clip around the power head pole between the front handle and rear handle in a location comfortable during use.
3. Insert the bolt through the pole clip and strap bevel. Thread the nut onto the bolt and tighten securely.
4. Clip the strap carabiner to the bevel.
5. Adjust the pole clip as needed to ensure a comfortable operating level.

To **wear** the strap:

1. Put your right arm and head through the strap.
2. Adjust the strap clips to change the strap length to fit comfortably.
3. Slide the neck pad to the appropriate position.

To **unclip** the strap:

1. Hold the tool by the front handle with your left hand.
2. Grip the carabiner with your right hand and unclip by pushing in the gate and it sliding off the bevel.





## OPERATION

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

Always remove battery pack before changing or removing accessories or attachments.

Do not operate the tool without the front handle in place. The front handle must be attached properly for use. Using one hand could cause loss of control and result in serious injury.

Do not operate the tool without the guard in place. The guard must be attached properly during use. Operating the tool without the guard will cause serious injury.

Use both hands when operating the tool. Maintain a firm grip. Using one hand could cause loss of control and result in serious injury.

### Selecting the Speed

Use the speed control button on the power head to select Low or High speeds. Use Low speed for larger jobs where extended battery life is needed. Use High speed for dense applications.



### Operating the Attachment

1. Inspect the bristle brush for damage before use, such as worn-down bristles. If damaged, do not use and replace the brushes.
2. Grasp the trigger handle with your right hand and the front handle with your left hand.
3. To **start** the tool, squeeze the lock-off lever and pull the trigger.

**▲WARNING** The tool pushes back towards the operator. Hold tool at a shallow angle to reduce risk of loss of control.

4. To **vary** the speed, increase or decrease the pressure on the trigger. The further the trigger is pulled, the greater the speed up to the maximum set by the speed control button.
5. Guide the brush forward, keeping it at a shallow angle to help prevent any push back towards the operator.



6. In the event of blockages, turn the tool off and remove the battery before clearing any debris.

7. To **stop** the tool release the trigger. Make sure the tool comes to a complete stop before laying the tool down.

## APPLICATIONS

The bristle brush can be used for the following applications:

- Material movement on hard surfaces
- Synthetic grass 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** Do not use tool with a damaged brush. Cracked or broken pieces can be thrown.

Always remove battery pack before changing or removing accessories.

### Replacing the Brushes

The brushes should be inspected before each use. If the bristles wear down or performance decreases, they should be replaced. For instructions on removing and installing the brushes, please see the "Installing/Removing the Brushes" section of this manual.

**▲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 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 service centre.

## ACCESSORIES

**▲WARNING** Use only recommended accessories. Others may be hazardous.

For a complete listing of accessories, go online to [milwaukeeetool.com.au](http://milwaukeeetool.com.au) / [milwaukeeetool.co.nz](http://milwaukeeetool.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](http://milwaukeetool.com.au/milwaukeetool.co.nz).

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