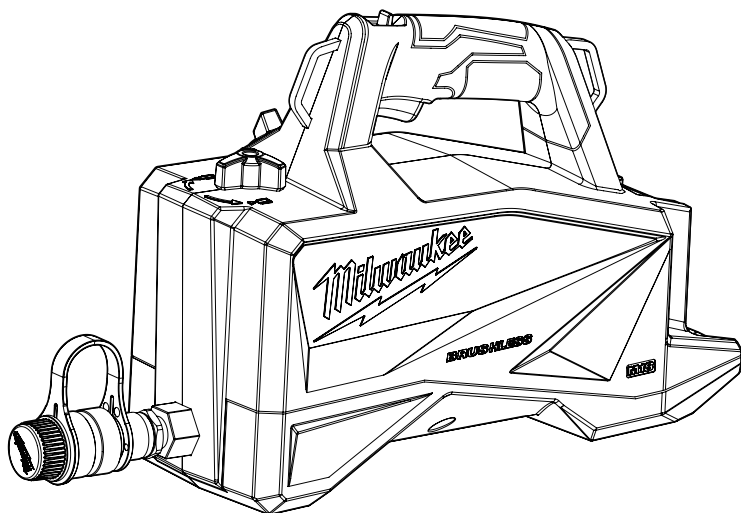




OPERATOR'S MANUAL



Cat. No.
M18 HMP700

M18™ MINI HYDRAULIC PUMP

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 HYDRAULIC PUMP

- Inspect pump, hoses, couplers, and fittings for wear or damage. Replace worn, damaged, or missing components with manufacturer's replacement parts. Worn or damaged components can fail, resulting in injury. Failure to observe this warning could result in severe injury or death.
- Ensure pump is in the desired mode of operation before use.
- Do not use hands to check for leaks. High pressure oil easily punctures skin, causing serious injury, gangrene, or death. If injured, seek medical help immediately to remove oil.
- Depressurize hydraulic system before servicing or disconnecting the hose.
- Wear eye protection when operating or servicing this tool. Failure to wear eye protection could result in serious eye injury from flying debris or hydraulic oil.
- Only use hoses and attachments that are single-acting and rated 10,000 psi (700 bar) or higher with a usable oil capacity under 1 L.
- For best performance, use hoses that are pre-filled with oil. If the hoses are not pre-filled, bleed the system before operating.
- Never operate the pump without a hose or attachment.
- For best performance, always use MILWAUKEE FORCE LOGIC™ Hydraulic Oil (49-32-0110) to refill the reservoir.
- For optimal functionality, use M18™ RED-LITHIUM™ 5.0 Ah battery or higher.
- Follow accessory manufacturers' operator's manual. Other uses may cause damage to the tool, accessories, and workpiece.

AWARNING To reduce the risk of arc flash, electric shock and property damage, work on deenergized lines when possible. Tool is not insulated.



Should work on energised lines be required, ensure all proper precautions, have been taken first.

- If the hose and accessory retain pressure after the pump has been depressurized (either by bleeding pressure manually or at the end of an operation), release pressure in a safe manner and replace the hose and remote pump couplers.
- If using with a lanyard, do not exceed maximum capacity marked on the lanyard label. Always determine the weight of the product, with all accessories, when selecting the appropriate lanyard system. Exceeding maximum capacity may result in serious injury. See specifications for tool and battery weight.
- For best results, use only with energy absorbing lanyards. Ropes, straps or chains may break and cause failure. Do not use with lanyards at full tension.
- 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

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.

SYMBOLLOGY



Volts



Direct Current



Read operator's manual



Wear eye protection.



Danger of compression injury

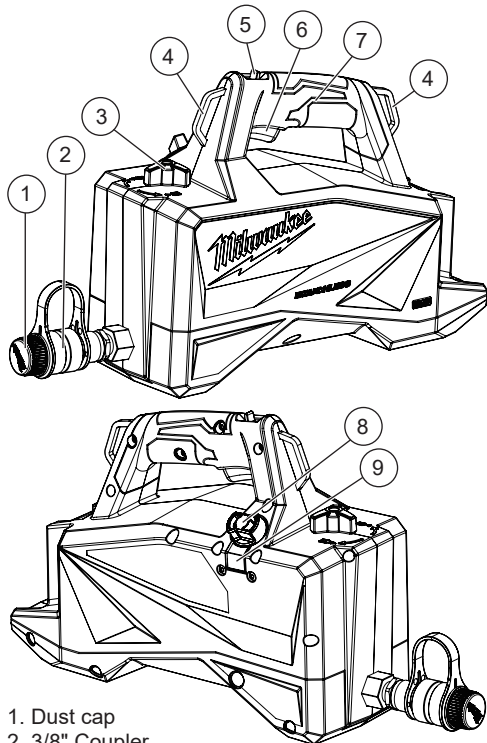


Regulatory Compliance Mark (RCM).
This product meets applicable regulatory requirements.



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.

FUNCTIONAL DESCRIPTION



1. Dust cap
2. 3/8" Coupler
3. Release valve
4. Lanyard hook ring
5. Trigger lock/unlock switch
6. Trigger
7. Handle
8. Oil fill cap
9. Oil level window

SPECIFICATIONS

Cat. No.	M18 HMP700
Volts	18 V DC
Battery Type	M18™
Charger Type	M18™
Operating Pressure	10,000 psi max (700 bar max)
Weight	5 kg (Tool-Only)
Usable Oil Reservoir Capacity	1 L
Maximum Tip Angle	20°
Nominal Flow Rate	0.3 l/min
Recommended Lanyard	MILWAUKEE® Energy Absorbing
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 remove the battery pack any time the tool is not in use.

Installing/Removing Oil Fill Cap

1. **WARNING** Remove battery to avoid starting the tool.
2. Remove the shipping oil fill cap.
3. Install the oil fill cap.

Adding Oil

For best performance, always use MILWAUKEE® FORCE LOGIC™ Hydraulic Oil (49-32-0110) to refill the reservoir.

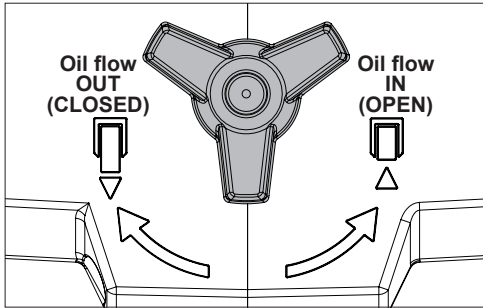
1. **WARNING** Remove battery to avoid starting the tool.
2. Return all oil to tool by fully opening release valve.
3. Remove any attachments from the tool.
4. Place the tool on a flat, level surface.
5. Twist open the oil fill cap.
6. Insert oil, monitoring the level through the oil level window.

NOTE: The proper oil fill level is half way through the oil level window.

7. Install the oil fill cap.

Release Valve

Use the release valve to control the oil flow direction. When closed, fluid can flow out of tool and pressure will hold. When open, fluid can flow back into the tool (control the flow rate of oil back into the tool using the release valve).



Priming the Hydraulic System

The tool should be primed any time that it has run dry of oil or starts pumping air.

To prime the system:

1. **⚠ WARNING** Remove battery to avoid starting the tool.
2. Inspect the oil level window and ensure the tool has enough oil.
3. Connect the coupler to an accessory head that will purge out the air and excess oil.
4. **⚠ WARNING** Only use matching couplers from the same manufacturer.
4. Fully open the release valve.
5. Insert the battery pack.
6. Slide the trigger switch to the unlock position.
7. Pull the trigger.
8. Run the tool.

NOTE: It may take up to thirty seconds for air and oil to start coming out.

9. Once the oil starts coming out, fully close the release valve.

NOTE: While priming the system, make sure the oil level does not drop below the oil level window. Refill the reservoir if necessary.

Bleeding the Accessory

Accessories should be bled of air any time an accessory has been serviced, unused for a long period of time or is connected to a hose that is not pre-filled with oil. Please also consult accessory manufacturer's recommendations for further bleeding instructions.

⚠ WARNING If the hose and accessory retain pressure after the pump has released pressure (either by using the release valve or at the end of an operation), release pressure in a safe manner and replace the hose.

To bleed an accessory:

1. **⚠ WARNING** Remove battery to avoid starting the tool.
2. Connect the accessory hose to the coupler.
3. **NOTE:** The tool must be positioned higher than the hose and accessory.
3. Insert the battery pack.
4. Close release valve
5. Run the tool until accessory is fully extended.
6. Open the release valve.

7. Repeat steps 4-6 three to four times.

NOTE: While bleeding the accessory, make sure the oil level does not drop below the oil level window. Refill the reservoir if necessary.

OPERATION

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

General Operation

1. **⚠ WARNING** Remove battery to avoid starting the tool.
2. Check oil level.
3. Open the release valve.
4. Make hose and accessory connections.
5. Insert battery pack.
6. Close the release valve.
7. Slide the trigger switch to the unlock position.
8. Pull the trigger.
9. Run the tool.
10. When application finished, turn off the tool and remove battery pack.
11. Open the release valve. Return flow can be controlled using the release valve.
12. Slide the trigger switch to the locked position.
13. Remove hose connections.

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 battery pack, charger, or tool, except as provided in these instructions. Contact a MILWAUKEE® service facility for ALL repairs.

Maintaining Tool

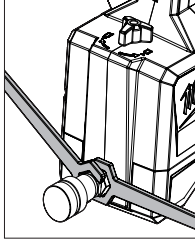
Keep your tool, battery pack and charger in good repair by adopting a regular maintenance program. Inspect your tool for issues such as undue noise, misalignment or binding of moving parts, breakage of parts, or any other condition that may affect the tool operation. Return the tool, battery pack, and 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.

Removing/Replacing the Coupler

⚠ WARNING Follow the accessory manufacturers' installation instructions. Other uses may cause damage to the tool, accessories, and workpiece.

To remove the coupler:

1. **⚠ WARNING** Remove battery to avoid starting the tool.
2. Fully close the release valve.
3. Place a 25 mm wrench on the coupler nut.
4. Place a 24 mm wrench on the coupler and loosen coupler.
5. Once removed, clean out any teflon tape still in the coupler area.



⚠ WARNING Only use couplers that are rated 10,000 psi (700 bar) or higher. Only use matching couplers from the same manufacturer. Non-matching couplers can result in retained pressure in the hose and attached accessory.

To replace the coupler:

1. **⚠ WARNING** Remove battery to avoid starting the tool.
2. Ensure the new coupler has teflon tape. If it does not, place two wraps of tape on the threads of the coupler.

NOTE: Only use teflon tape.

3. Place a 25 mm wrench on the coupler nut.
4. Place the coupler onto the coupler nut and, using a second wrench, tighten the coupler into place.

NOTE: The coupler should be torqued to 60 - 75 Nm.

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 authorised service centre.

ACCESSORIES

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

For a complete listing of accessories, go online to milwaukee tool.com.au / milwaukee tool.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 milwaukeeetool.com.au/milwaukeeetool.co.nz.

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