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GENERAL
The M-B ARMT (Angling Rear-Mounted Tractor) rotary broom is designed to fit all Category I, II and III three-point free link attachments. Hitch pins secure the broom pivot frame to the tractor’s upper and lower mounting points. The broom is mounted on the rear of the tractor and is powered by the tractor engine through a telescoping driveshaft coupled to the rear PTO and broom gearbox.

OPERATOR’S MANUAL
You must read, understand and comply with all the safety and operating instructions in this manual before attempting to set-up and operate your power broom.
Failure to comply with the safety and operating instructions can result in loss of machine control, serious personal injury to you and/or bystanders, and risk of equipment and property damage.

IDENTIFICATION NUMBERS
When contacting your authorized dealer for information, replacement parts or service, you MUST have the model and serial number of your unit.
Record the serial number in the space provided. The serial number plate/decal can be found in the location shown in Figure 1.

<table>
<thead>
<tr>
<th>Model Name/Number:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Purchased:</td>
</tr>
</tbody>
</table>

Figure 1.
SAFETY

SAFETY ALERTS

Signal words and alert symbols notify of important safety precautions.

DANGER! Indicates a hazardous situation which, if not avoided, will result in serious injury or death.

WARNING! Indicates a hazardous situation which, if not avoided, could result in serious injury or death.

CAUTION! Indicates a hazardous situation or unsafe practice which, if not avoided, could result in minor or moderate injury or property damage.

SAFETY DECALS

Although reading this manual and the safety instructions it contains will provide you with the necessary basic knowledge to operate this equipment safely and effectively, we have placed several safety labels on the unit to remind you of this important information while you are operating your unit.

All DANGER, WARNING, CAUTION, and instructional messages on your unit should be carefully read and obeyed. Bodily injury can result when these instructions are not followed. The information is for your safety and it is important.

These labels will act as a constant visual reminder to you, and others who may use the equipment, to follow the safety instructions necessary for safe, effective operation.

If any of these labels are lost or damaged, replace them at once. See your local dealer for replacements.

PRE-START GUIDELINES

• Install any covers or guards which may have been removed for shipping purposes.
• Before starting equipment, walk around equipment, making a visual inspection that all safety devices are properly installed and secured.
• Check that all hardware, fasteners, hydraulic fittings, etc. are in good condition and properly fastened. Replace any fatigued or damaged items with proper replacements.
• Personnel who are not required to be in the work area should be kept away. Never start the equipment unless you are absolutely certain that everyone in the area is clear of the machine and aware it is being started.
• Follow the manufacturer’s recommended start-up procedure.

OPERATION GUIDELINES

Read, understand and follow all instructions in the manual and on the unit before starting.

• To avoid serious injury or death, do not modify equipment. Any modifications made to equipment can be dangerous and can void equipment warranty.
• Never defeat a safety device to make a task easier.
• Always wear proper apparel when operating equipment; safety glasses, face shield or goggles, ear protection, and dust mask. Tie hair back. Never wear loose clothing or jewelry that could get caught in moving parts.
• Never operate equipment with covers or guards removed. Rotating parts can cause severe injury. Keep hands, feet, hair, jewelry and clothing away from all moving parts.
• Only allow responsible adults who are familiar with the instructions, to operate the unit (local regulations can restrict operator age).
• Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown.
• Be aware of surroundings. Be sure the area is clear of other people, bystanders or pets. Stop unit if anyone enters the area.
• Always look down and behind before and while traveling in reverse.
• Be aware of discharge direction and do not point discharge at anyone. Do not point the discharge at glass enclosures, automobiles, or windows.
SAFETY

• Always stand clear of the discharge area when operating this unit.
• Disengage all clutches and PTO’s before starting engine.
• Never leave a running machine unattended. Always disengage the attachment and traction controls, lower the attachment, set the park brake, stop the engine and remove the ignition key before leaving the machine.
• Operate only in daylight or good artificial light.
• Never carry passengers.
• Do not operate the unit while under the influence of drugs, alcohol or other medication.
• Watch for traffic when operating near or crossing roadways.
• Use extra care when loading or unloading the unit into a trailer or truck.
• Keep in mind the operator is responsible for accidents occurring to other people or property.
• Data indicates that operators, age 60 years and above, are involved in a large percentage of power equipment-related injuries. These operators should evaluate their ability to operate the unit safely enough to protect themselves and others from injury.
• All operators should seek and obtain professional and practical instruction.
• Protect eyes, face and head from objects that may be thrown from unit. Wear appropriate hearing protection.
• Always wear substantial footwear and appropriate clothing. Wear footwear that improves traction on slippery slopes. DO NOT wear long scarves or loose clothing that could become entangled in moving parts.
• Abnormal Vibrations are a warning of trouble. Striking a foreign object can damage unit. Stop unit and engine. Wait for all moving parts to stop. Inspect unit and make any necessary repairs before restart.
• Never place your hands or any part of your body or clothing inside or near any moving part while unit is running.
• Stop engine before: refueling, cleaning, making adjustments or removing the attachment assembly.
• Follow the drive unit manufacturer’s recommendations for wheel weights or counter weights.
• Make any adjustments before operating unit.
• Do not touch parts which may be hot from operation. Allow such parts to cool before attempting to service the unit.
• Before using, always visually check that hardware is present, intact and secure. Replace worn or damaged parts.
• Never operate the machine with damaged guards, or without safety protective devices in place.
• Follow the manufacturer’s recommendations for towing weight restrictions and procedures.
• Original purchaser of this unit was instructed by the seller on safe and proper operation. If unit is to be used by someone other than original purchaser; loaned, rented or sold, ALWAYS provide this manual and any needed safety training before operation.
• The Operator must understand the functions and parameters of all controls and how to operate, as well as how to STOP in an Emergency.

NOTE: All reference to left, right, front, or rear are given from the operator position and facing forward.

MAINTENANCE GUIDELINES

• Maintain or replace safety and instruction decals/labels as necessary.
• Never run a unit in an enclosed area.
• Keep nuts and bolts tight and keep equipment in good condition.
• Never tamper with safety devices. Check their proper operation regularly and make necessary repairs if they are not functioning properly.
• Keep unit free of debris and build-up. Clean up any oil spillage.
• Never make adjustments or repairs with the engine running unless specified otherwise in the engine manufacturer’s manual.
• Components are subject to wear, damage, and deterioration. Frequently check components and replace with the manufacturer’s recommended parts, when necessary.
• Check control operation frequently. Adjust and service as necessary.
• Use only factory authorized parts when making repairs.
• Always comply with factory specifications on all settings and adjustments.
• Only authorized service locations should be utilized for major service and repair requirements.
• Never attempt to make your own repairs on this unit unless you have been properly trained. Improper service procedures can result in hazardous operation, equipment damage and voiding the manufacturer’s warranty.
• Stop engine on tractor and set parking brake before performing any adjustments on the machinery.
• Do not disassemble a pressurized system unless properly trained and equipped with adequate tooling.
• Escaping hydraulic fluid under pressure can have sufficient force to penetrate the skin, causing serious injury. Before operation, be sure that all hydraulic connections are tight and hoses are not damaged. Relieve pressure in system before making adjustments.
• Oils and fluids can be very hot under pressure. Use caution and allow the system to cool before beginning maintenance work.
• Never operate or pressurize one of these systems with worn or damaged components. Replace hoses, fittings, valves or other components which appear defective.
• Never adjust pressurized systems beyond recommended levels to achieve higher operating pressures.
• NEVER search for hydraulic leaks with only your hands. Use cardboard or a piece of wood.
• For engine equipped models, follow specific engine manufacturer’s recommended service intervals for dirty/dusty environments.
ASSEMBLY

The broom is shipped partially disassembled to conserve shipping space and to package securely to reduce the possibility of damage in transit.

1. Remove all components from the shipping crate and place in a secure location.

NOTE: Refer to the 905-Assembly Drawing included in the Parts List section of this manual to identify applicable parts.

2. Verify that the jackshaft and drive chain guards are installed on broom.

NOTE: Right hand (RH) and left hand (LH) designations are referenced from facing forward in operating position of prime mover (tractor).

The swing arm with mounting post (for swing actuator rod or hydraulic cylinder) must be positioned on the right hand (RH) side of brush frame. The swing arm must be positioned with the post on top. See Figure 1.

3. Install the two swing arms in the brush frame and insert a swing pin through the frame and each arm to secure in place. Install 5/16-18 x 1” hex head capscrew to secure each swing pin.

4. Install the pivot frame on the opposite ends of the swing arms.

5. Insert swing pins through the pivot frame and each arm to secure in place. Install 5/16-18 x 1” hex head capscrew to secure each swing pin in frame.

6. Install the actuator rod (manual swing) or cylinder (hydraulic swing) on the pivot frame and swing arm mounting posts and secure with supplied hardware.

7. Assemble support chains to pivot frame using provided shackles.

8. Install two each storage stands in brush frame and pivot frame. Slide stands up fully and secure in position with clevis pins and hairpins.

9. Verify that the brush drive chain tightener block is positioned in the correct location for the broom rotation direction. Refer to the SETUP ADJUSTMENTS instruction for more information.

10. Verify the gearbox lubricant level.

NOTE: Lubricant level is initially verified at the factory.

   a. Position the broom so that the gearbox is level.
   b. Remove the solid plug from full level hole in rear of case.
   c. Lubricant should be up to bottom of full level hole.
   d. If necessary, remove vented filler plug from top of case and add SAE 90W lubricant until it flows from full level hole.
   e. Install solid plug in full level hole in rear of case.
   f. Install vented filler plug in top of case.
IMPORTANT! If flipping the gearbox over to change the brush rotation direction, switch the positions of the top vented plug with the bottom solid plug.

**INSTALLATION**

1. Position tractor so that 3-point hitch aligns with the proper mounting points (Category I, II, III) on broom pivot frame.

**IMPORTANT!** Tractor 3-point hitch MUST be equipped with stabilizer bars to hold pivot frame in a rigid lateral position to prevent broom twist and/or contact with tractor tires.

2. Position chain anchor brackets on tractor 3-point hitch.

**NOTE:** Refer to the 905-Assembly Drawing included in the Parts List section of this manual to identify applicable parts.

3. Secure pivot frame to tractor hitch points using appropriate hitch pins for hitch Category (I, II, III). Secure hitch pins as necessary with clip pins.

4. Install and lock support chains into anchor brackets in a position that provides for correct broom pattern. Refer to the Pattern Adjustment procedure with the **SETUP AND ADJUSTMENTS** instruction.

5. Install key on gearbox input shaft and slide telescoping driveshaft onto input shaft. Tighten set screws to secure driveshaft to gearbox.

6. Connect driveshaft to tractor PTO.

---

**Figure 2**

- **Key**
- **Setscrews**
- **Driveshaft**
- **Gearbox**
- **3-Point Hitch Link**
- **Hitch Pin**
- **Clip Pin**
- **Support Chain**
- **Anchor Bracket**
SWEEP DIRECTION SETUP

The broom direction of rotation, sweeping towards or away from the tractor, may be reversed as necessary by dismounting the gearbox, flipping it over, and re-mounting it.

IMPORTANT! If flipping the gearbox over to change the brush rotation direction, switch the positions of the top vented plug with the bottom solid plug.

NOTE: Refer to the 905-Assembly Drawing included in the Parts List section of this manual to identify applicable parts.

Clockwise (CW) and counter-clockwise (CCW) indicate the direction of rotation when facing that end of shaft. Arrows shown are over the top of shafts.

Figure 1

PATTERN ADJUSTMENT

Proper adjustment of your power broom will increase the life of the brush and produces more efficient movement of material. Visually inspect the adjustments on the broom before each operating session and measure the adjustments once every 10 hours.

The brush pattern (swept area) is determined by how far the tractor 3-point hitch is allowed to lower the broom assembly. The chains act as a stop (down limit) for tractors without draft control limiters.

The chain anchor brackets are slotted to allow adjustment to the length of support chain. The chain length is increased as the broom wears, allowing the broom to be dropped lower, maintaining proper brush pattern.

1. Park the unit on a flat level surface; preferably concrete or asphalt.
2. Run the broom for about 30 seconds in the down position while stationary. Stop the broom and drive the tractor forward. The area “cleaned” (contact patch) should be 2"-4" wide for the entire length of the broom. See Figure 2.
3. If not, raise the broom with the tractor’s 3-point hitch and adjust the length of the lift chains at the chain anchor brackets as necessary.
4. Repeat steps 2 and 3 to verify that the broom contact patch is approximately 3" wide from front to rear.

The level of the broom may create too heavy a brush pattern on either the left or right side. In order to balance the pattern, the side-to-side (Left-Right) level of the 3-point hitch lift arms must be adjusted (level) to compensate for the lean. See Figure 3.

The broom head may also be pitched either down too far forward or up too far backward, giving the impression of a bowtie. The 3-point hitch center top link length must be adjusted to achieve a balanced pattern. Check the brush pattern (Figure 3) and adjust the support chain lengths after adjusting the hitch top link length. See Figure 4.
Once the broom has been properly adjusted, a short operation period is recommended for break-in; approximately 15 minutes. After this break-in period, repeat the leveling procedure to ensure that it is correct.

**DRIVE CHAIN ADJUSTMENT**

**WARNING!** Broom shown with chain guard removed for clarity only. DO NOT operate broom with guards removed!

**NOTE:** The mounting hole is off-center in the chain tightener, causing it to act as an eccentric (cam).

Refer to the 905-Assembly Drawing included in the Parts List section of this manual to identify applicable parts.

1. Verify that the brush drive chain tightener block is positioned in the correct location for the broom rotation direction.
   - When sweeping toward the tractor, the block must be positioned against upper span of chain.
   - When sweeping away from tractor, the block must be positioned against lower span of chain. See Figure 5.

2. Loosen the 1/2"-13 hex head cap screw and lock nut securing the chain tightener block to the brush frame.

3. Rotate the block into the chain until the chain is deflected approximately 1/2".

**LIFT CHAIN ADJUSTMENT**

Adjust the lift chain length as the broom diameter becomes smaller due to brush wear. Increasing lift chain length increases the limit of down travel to allow the broom to drop lower.

The chain anchor brackets are slotted to allow adjustment to the length of support chains. Perform the **PATTERN ADJUSTMENT** procedure to verify the lift chains are at the correct length to achieve the desired sweep area.
**OPERATION**

**PRE-STARTUP CHECKS**

**IMPORTANT!** You must read, understand and comply with all the safety and operating instructions in this manual before attempting to set-up and operate your power broom.

Failure to comply with the safety and operating instructions can result in loss of machine control, serious personal injury to you and/or bystanders, and risk of equipment and property damage.

1. Visually inspect equipment and hardware to ensure that all parts are secure and all hardware is tightened and secure.
2. Check for oil leaks and loose hose connections.
3. Inspect the broom adjustments to ensure that the broom is level and that there is proper brush pattern. Refer to the SETUP AND ADJUSTMENT section.
4. Inspect the bristle length to determine if replacement segments are needed.

**TRAVEL PROCEDURE**

Follow these instructions for extended travel (i.e. to and from the sweeping site):

- Move the broom operation (rotation) control to the “OFF” position.
- Move the lift control to the “UP” position until the brush is in the fully raised position.
- Raise the support stands to the highest position and secure in place.

**OPERATION**

**IMPORTANT!** The support stands should never be used for anything other than as stationary storage stands to hold the broom up while it is being stored.

- Ensure the support stands are raised to the highest position and secured in place.
- Sweep at a speed that is appropriate for the conditions and location.
- For heavy material such as gravel or stones, drive more slowly with a higher broom speed. For lighter material, drive faster with a lower broom speed.
- It may be necessary to increase broom contact pattern under some conditions. If the surface being swept is uneven and causes the broom to leave upswept patches, increase the pattern size to compensate.
- If the material being swept is dried-on or difficult to remove, such as mud or ice, it may be necessary to drive extremely slow to allow the broom to “scrub” the surface.
**MAINTENANCE**

**MAINTENANCE SCHEDULE**
- Check adjustments – every 10 hours
- Grease bearings – after initial 10 hours, then every 200 - 300 hours thereafter.
- Grease pivot points – every 50 hours

**LUBRICATION**
- Grease bearings and pivot points per the MAINTENANCE SCHEDULE using Chevron Ultra Duty II, Grade 2; or equivalent high-temp grease.
- There are minimum of (8) grease points on the unit; (4) at the horizontal swing arms, (2) at the vertical lift pivot points and (2) on the brush end bearings.

**FILLER REPLACEMENT**

Core Removal
1. Lower broom until brush contacts the ground.
2. Loosen the 1/2"-13 hex head cap screw and lock nut securing the chain tightener block to the brush frame.
3. Rotate the block out of contact with chain.
4. Remove (2) 1/2-13 x 2" bolts, flat washers and lock nuts attaching the core support bearing to bottom of brush frame at each end of broom. See Figures 1 and 2.

Brush Installation
**IMPORTANT!** Proper wafer and spacer position must be followed to ensure proper balance on the core.
1. Protect core sprocket support hub from dirt or damage before setting core on end.
2. Stand core in upright position on core support hub and begin filling by sliding a poly brush wafer and then a spacer down the full length of the core.
   a. Note the location of drive pin on inside ring of each brush wafer. Position each wafer so its drive pin is positioned between the stop flanges. Rotate each subsequent wafer before installing so the position of its pin is staggered on the core by one stop flange. See Figure 3.

**NOTE:** Brush surface contact during initial operation will set all wafer drive pins up against the core stop flanges. See Figure 4.
b. The circular spacers have unconnected, overlapped ends. Position the overlap of the first spacer between the stop flanges, rotated one flange ahead of the drive pin location of the immediately preceding brush wafer. All subsequent spacers must follow the same staggered placement pattern.

3. Continue stacking the core in a wafer-spacer, wafer-spacer configuration until it is full, ending with a poly brush wafer.

NOTE: Always start and finish with a poly wafer. The last wafer should actually extend beyond the end of the core (Minimum 1/2") so the end disc compresses the spacers onto the core when tightened.

3.

Continue stacking the core in a wafer-spacer, wafer-spacer configuration until it is full, ending with a poly brush wafer.

NOTE: Always start and finish with a poly wafer. The last wafer should actually extend beyond the end of the core (Minimum 1/2") so the end disc compresses the spacers onto the core when tightened.

4. Install end disc on core with original hardware.

5. Install hub on core with original hardware.

6. Install end bearing on hub.

Core Installation

1. Position refilled core in front of the broom head. Lift the broom high enough so that core clears the hood and the brush can be rolled/pushed back into its original position.

2. Lower broom down until brush frame rests on support bearings at each end of the core.

3. Roll brush back and install drive chain over core sprocket. Figure 1.

4. Roll brush forward and attach support bearings to bottom of brush frame at each end of broom with original hardware. See Figure 2.

5. Rotate the tightener block into the chain until the chain is deflected approximately 1/2".

6. Tighten the 1/2"-13 hex head capscrew and lock nut securing the chain tightener block to the brush frame.

7. Before placing machine back into service, adjust and test for proper brush pattern. Excessive and/or misaligned pattern can cause brush failure or premature wear. Refer to the SETUP AND ADJUSTMENTS section of the manual for pattern adjustment.
STORAGE

- Always store the broom in a supported position, on its included stands, with the brush off the ground. If the bristles are stored in a deformed position for extended periods of time the broom will become severely out of balance.
- Store the broom in a location out of the sun and weather to prevent premature failure of plastic bristles. Bristles can become brittle when subjected to sunlight or repeated temperature changes.
- Disconnect all electrical connections between the broom and prime mover (tractor) for extended storage to prevent battery drain.
- Properly clean the unit before storage and remove dirt, debris, salt, etc. to extend paint life.
- If the unit is power-washed, all lubrication points should be greased before storage.

TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Trouble</th>
<th>Possible Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broom does not rotate.</td>
<td>1. PTO driveshaft disconnected.</td>
<td>1. Connect PTO driveshaft.</td>
</tr>
<tr>
<td></td>
<td>2. Gearbox damaged.</td>
<td>2. Repair/replace gearbox.</td>
</tr>
<tr>
<td></td>
<td>3. Drive chain broken, missing or off sprockets.</td>
<td>3. Fix, replace or properly mount drive chain.</td>
</tr>
<tr>
<td>Broom rotates in wrong direction.</td>
<td>1. Gearbox installed incorrectly.</td>
<td>1. Flip gearbox over. Refer to the ASSEMBLY AND INSTALLATION section of this manual for more information.</td>
</tr>
<tr>
<td>Bristles wearing unevenly.</td>
<td>1. Swing arms not level.</td>
<td>1. Adjust 3-point hitch support arms and/or top link. Refer to the SETUP AND ADJUSTMENTS section of this manual for more information.</td>
</tr>
<tr>
<td></td>
<td>2. Pattern adjustment not set.</td>
<td>2. Adjust support chains to 3-point hitch. Refer to the SETUP AND ADJUSTMENTS section of this manual for more information.</td>
</tr>
<tr>
<td></td>
<td>3. Tires on prime mover at different pressures or of different sizes.</td>
<td>3. Check tire pressure, sizes and rating. Adjust and/or correct as necessary.</td>
</tr>
<tr>
<td>Brushes wear very quickly.</td>
<td>1. Brush pattern too wide.</td>
<td>1. Adjust brush pattern to be 2-4&quot; wide. Refer to the SETUP AND ADJUSTMENTS section of this manual for more information.</td>
</tr>
<tr>
<td>Broom bounces during sweeping.</td>
<td>1. Travel speed too fast and/or brush speed too slow.</td>
<td>1. Adjust to find correct ground and brush speed for surface.</td>
</tr>
<tr>
<td>Broom sweeping poorly.</td>
<td>1. Material is ‘caked-on’ or frozen.</td>
<td>1. Slow down and ‘scrub’ surface.</td>
</tr>
<tr>
<td></td>
<td>2. Uneven sweeping surface.</td>
<td>2. Increase pattern to compensate.</td>
</tr>
<tr>
<td></td>
<td>3. Material is too heavy.</td>
<td>3. Slow down prime mover speed.</td>
</tr>
<tr>
<td></td>
<td>4. Broom rotating too slowly.</td>
<td>4. Increase engine speed.</td>
</tr>
<tr>
<td></td>
<td>5. Prime mover moving too fast.</td>
<td>5. Slow down prime mover speed.</td>
</tr>
<tr>
<td></td>
<td>6. Pattern adjustment incorrectly set.</td>
<td>6. Adjust chain lengths at 3-point mount.</td>
</tr>
<tr>
<td>Broom does not lift or angle.</td>
<td>1. No/Low hydraulic pressure/flow.</td>
<td>1. Check prime mover hydraulic operation.</td>
</tr>
</tbody>
</table>
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>ARMT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brush Diameter</td>
<td>32&quot;</td>
</tr>
<tr>
<td>Brush Length</td>
<td>5' (60&quot;), 6' (72&quot;), 7' (84&quot;), 8' (96&quot;), 9' (108&quot;)</td>
</tr>
<tr>
<td>Brush Drive</td>
<td>1:1 gearbox driven by 540 RPM PTO. Gearbox connects to brush core via shaft, sprockets and chain. (Recommended for tractors of 30Hp and greater.)</td>
</tr>
<tr>
<td>Brush Speed</td>
<td>200 RPM Maximum</td>
</tr>
<tr>
<td>Brush Angle</td>
<td>Maximum 30° left/right</td>
</tr>
<tr>
<td>Shipping Weight:</td>
<td></td>
</tr>
<tr>
<td>5' (60&quot;)</td>
<td>900</td>
</tr>
<tr>
<td>6' (72&quot;)</td>
<td>1000</td>
</tr>
<tr>
<td>7' (84&quot;)</td>
<td>1100</td>
</tr>
<tr>
<td>8' (96&quot;)</td>
<td>1200</td>
</tr>
<tr>
<td>9' (108&quot;)</td>
<td>1300</td>
</tr>
<tr>
<td>Brush Filament:</td>
<td>Poly (polypropylene) or Combo (Poly/Wire)</td>
</tr>
<tr>
<td>Swing Method</td>
<td>Manual or Hydraulic (Hydraulic cylinder only. Customer must provide hydraulic hoses, coupler and valve to swing cylinder.)</td>
</tr>
<tr>
<td>Lift Method</td>
<td>Provided by tractor lift arms. Adjustable chains provide down travel limit for tractors without draft control limiters.</td>
</tr>
<tr>
<td>Mounting:</td>
<td>Mounts to tractor Category I or II 3-point rear hitch.</td>
</tr>
<tr>
<td>Options:</td>
<td>Category III 3-point rear hitch</td>
</tr>
<tr>
<td></td>
<td>1000 RPM PTO-driven in lieu of 540 RPM</td>
</tr>
<tr>
<td></td>
<td>Hose and Couplers Kit</td>
</tr>
<tr>
<td></td>
<td>Dirt Deflector (Broom Hood)</td>
</tr>
<tr>
<td></td>
<td>45 Gallon Sprinkler System (Customer provides tank mounting location.) (Application specific, requires evaluation.)</td>
</tr>
<tr>
<td></td>
<td>Sight/Guide Indicators</td>
</tr>
</tbody>
</table>
## SERVICE PARTS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>907-46656</td>
<td>Refill Kit, 32&quot; x 5', Wafer, Poly</td>
</tr>
<tr>
<td>907-92095</td>
<td>Refill Kit, 32&quot; x 5', Wafer, Alternating Poly/Wire</td>
</tr>
<tr>
<td>907-46658</td>
<td>Refill Kit, 32&quot; x 5', Wafer, Wire</td>
</tr>
<tr>
<td>907-46657</td>
<td>Refill Kit, 32&quot; x 5', Wafer, Poly/Wire Combo</td>
</tr>
<tr>
<td>907-46659</td>
<td>Refill Kit, 32&quot; x 6', Wafer, Poly</td>
</tr>
<tr>
<td>907-92096</td>
<td>Refill Kit, 32&quot; x 6', Wafer, Alternating Poly/Wire</td>
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<td>907-46661</td>
<td>Refill Kit, 32&quot; x 6', Wafer, Wire</td>
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<td>907-46660</td>
<td>Refill Kit, 32&quot; x 6', Wafer, Poly/Wire Combo</td>
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<td>Refill Kit, 32&quot; x 7', Wafer, Poly/Wire Combo</td>
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<td>Refill Kit, 32&quot; x 8', Wafer, Poly</td>
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<td>907-76909</td>
<td>Refill Kit, 32&quot; x 9', Wafer, Poly</td>
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<td>Refill Kit, 32&quot; x 9', Wafer, Alternating Poly/Wire</td>
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<td>907-90593</td>
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<td>600-68509</td>
<td>Bearing, Support, Core</td>
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<td>410-93200</td>
<td>Hub, Core Support</td>
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<td>400-64724</td>
<td>End Disc, Core</td>
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<tr>
<td>600-140187</td>
<td>Bearing, Support, Core Drive Jackshaft</td>
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<tr>
<td>203-72277</td>
<td>Cylinder, Swing</td>
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<td>203-72277-1</td>
<td>Seal Kit, Swing Cylinder</td>
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<tr>
<td>410-132762</td>
<td>Pin, Swing</td>
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<tr>
<td>383-122610</td>
<td>Pin, Hitch, Category 1 Upper Mount</td>
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<tr>
<td>383-132433</td>
<td>Pin, Hitch, Category 2 Upper Mount</td>
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<tr>
<td>380-151746</td>
<td>Pin, Hitch, Category 3 Upper Mount</td>
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<tr>
<td>380-132805</td>
<td>Pin, Hitch, Category 1 &amp; 2 Lower Mount</td>
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<td>380-151745</td>
<td>Pin, Hitch, Category 3 Lower Mount</td>
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<tr>
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<tr>
<td>410-94050</td>
<td>Storage Stand</td>
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<tr>
<td>380-76379</td>
<td>Clevis Pin, Storage Stand</td>
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<td>380-84739</td>
<td>Hair Clip, Clevis Pin</td>
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<tr>
<td>390-160105</td>
<td>Guide Stick, 1/2&quot; x 26&quot;</td>
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<td>401-160790</td>
<td>Bracket, Guide Stick</td>
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<td>109-131128</td>
<td>Paint, Spray, MB Yellow</td>
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<td>249-92003</td>
<td>Paint, Spray, Black</td>
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<tr>
<td>249-92005</td>
<td>Primer, Spray</td>
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</table>

Please have your serial number (S/N) ready when contacting M-B Co. or an Authorized Dealer for replacement parts or service information.

M-B Co.
1615 Wisconsin Ave.
P.O. Box 200
New Holstein, WI 53061-0200

website: www.m-bco.com
email: sales@m-bco.com
Phone: 800-558-5800 or 920-898-4203
FAX: Main 920-898-4588
Attachments 920-898-1085
Brush Dept. 920-898-1082
**WARNING!** Broom shown with chain guard removed for clarity only. DO NOT operate broom with guards removed!

**DANGER**

To prevent serious injury or death from pinching:
- Keep all persons and objects clear while any part of this machine is in motion.

**DANGER**

**ROTATING DRIVELINE HAZARD**

To prevent serious injury or death from rotating driveline:
- Keep all guards in place when operating.
- Keep hands, feet, hair and clothing away from moving parts.

**WARNING**

**MOVING PART HAZARD**

To prevent serious injury or death from moving parts:
- Close and secure guards and shields before starting.
- Keep hands, feet, hair and clothing away from moving parts.
- Disconnect and lockout power source before adjusting or servicing.
- Do not stand or climb on machine when operating.
## ARMT Decals

**WARNING**

**FLYING OBJECTS HAZARD**
Keep Clear

**ENTANGLEMENT HAZARD**
Keep Clear

---

**CAUTION**

Read Operator’s Manual before using broom. If operating instructions are missing, contact the M-B Co. for your free replacement.

- Before operating broom make sure all guards and broom are installed properly.
- Wear eye protection when operating broom.
- Do not operate broom near any objects that can be damaged by thrown debris. Be sure no bystanders are near broom during operation.
- The polypropylene brush segments can melt or burn. Do not subject to excessive heat or flame.
- Do not allow riders on broom.
- Stop power source, lower broom to the ground, set parking brake, and remove ignition key before servicing or adjusting.
- Do not operate broom on any roof or other elevated surface.

---

### Decal Sheet

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>1</td>
<td>Decal, DANGER, Driveline</td>
<td>390-118350</td>
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<tr>
<td>2</td>
<td>Decal, DANGER, No Riders</td>
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<td>3</td>
<td>Decal, DANGER, Pinch Point</td>
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<td>4</td>
<td>Decal, WARNING, Moving Part/Guards</td>
<td>390-118352</td>
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<td>5</td>
<td>Decal, CAUTION, Read Operator’s Manual</td>
<td>390-118351 (M-B Co.)</td>
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<td>6</td>
<td>Decal, CAUTION, Read Operator’s Manual</td>
<td>390-151987 (Non-M-B Co.)</td>
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<td>7</td>
<td>Decal, Grease</td>
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<td>8</td>
<td>Decal, Brush Pattern</td>
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<td>9</td>
<td>Decal, WARNING, High Pressure Fluid</td>
<td>390-169221</td>
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<td>Decal, WARNING, Flying Debris</td>
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<td>Decal, MB Logo, Black, Large</td>
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<td>12</td>
<td>Decal, MB Logo, Black, Medium</td>
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**NOTE:**

FAILURE TO FOLLOW ABOVE RECOMMENDATION CAN CAUSE PREMATURE BRUSH WEAR AND IRREVERSIBLE BRUSH DAMAGE. CONSULT OPERATOR’S MANUAL FOR ADJUSTMENT PROCEDURE.
## GEARBOX, BEVEL

(501-92114)

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<td>Cap</td>
<td>501-92129</td>
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<td>3</td>
<td>Capscrew, SEMS</td>
<td>501-92130</td>
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<td>4</td>
<td>Cup, Bearing</td>
<td>501-92131</td>
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<td>5</td>
<td>Cone, Bearing</td>
<td>501-92132</td>
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<td>6</td>
<td>Ring, Retaining</td>
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<td>Gear</td>
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<td>Gasket (0.005&quot;)</td>
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<td>14</td>
<td>Plug, Pipe, Solid</td>
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<td>Shaft, Pinion</td>
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<td>Plug, Pipe, Vented</td>
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SWING CYLINDER (203-72277)
LIMITED WARRANTY

Limited Warranty: Subject to the limitations set forth herein, M-B Companies, Inc. ("M-B") warrants its products to be free from defects in material and workmanship for a period of twelve (12) months from the date of delivery of the product to its original owner, except that the warranty is twelve (12) months solely for the following products: Truck Mounted Pavement Marking Equipment, Airport Snow Removal Products, Attachment Products, Brushes, MSV Multi-Service Vehicles. Parts shall have a ninety (90) day warranty. This warranty is not transferable without the written consent of M-B.

Notice: M-B’s obligations under this Limited Warranty are conditioned on M-B receiving, within the warranty period, written notice from Buyer specifying the nature of any alleged defect and requesting corrective action by Seller.

Remedies: M-B, at its option, will repair or replace, or provide a credit to Buyer for, defective warranted items. If requested by M-B, products or parts for which a warranty claim is made shall be returned, transportation prepaid, to M-B’s factory. Buyer shall not return any product for repair, replacement or credit without M-B’s advance written consent.

Other Manufacturer’s Warranty: On products furnished by M-B, but manufactured by any other manufacturer, the warranty of said manufacturer, if any, will be assigned to Buyer, if the said warranty is assignable. However, M-B does not represent or guarantee that such manufacturer will comply with any of the terms of the warranty of such manufacturer.

Exclusions: Any improper use, operation beyond capacity, or substitution of parts not approved by M-B, or alteration or repair by others in such a manner as in M-B’s judgment materially and/or adversely affects the product shall void this warranty. This warranty does not apply to defects caused by damage or unreasonable use while in the possession of the owner, including but not limited to: failure to provide reasonable and necessary maintenance, normal wear, routine tune ups or adjustments, improper handling or accidents, operation at speed or load conditions contrary to published specifications, improper or insufficient lubrication, or improper storage.

Seller manufactures power brooms that mount to many makes and models of equipment. Seller attempts to ensure that the mounting frames fit correctly. However, the large number of tractor models, types and options currently available, compounded by frequent manufacturer design changes, may prevent Seller from supplying a frame that fits every unit correctly. Therefore, unless Buyer supplies drawing which detail the attachment points on the specific unit to which the broom will be mounted, Seller will not be responsible for the fit of the mounting frame.

The batteries, tires, rubber material, brushes and material normally consumed in operation, and major components such as engines, air compressors, and hydraulic pumps and motors are excluded from this warranty but may be covered to the extent of any warranty received by M-B from its supplier if permitted by the terms of such warranty.

Limitations of liability: M-B shall not be liable for any incidental, consequential, punitive or special damages of any kind, including, but not limited to, consequential labor costs or transportation charges in connection with the repair or replacement of defective parts, or lost time profits or expense which may have accrued because of said defect.

M-B disclaims all other warranties, whether express or implied, including but not limited to any implied warranty of merchantability or fitness for a particular purpose. This warranty is exclusive remedy of buyer. This warranty cannot be extended, broadened or changed in any respect except in writing by an authorized officer of M-B.

Notwithstanding anything in this warranty is to the contrary, in no event shall M-B’s total liability hereunder exceed the purchased price of the particular product.