CAUTION:
Read Rules for Safe Operation and Instructions Carefully

36" SPIKE AERATOR

- Safety
- Assembly
- Operation
- Maintenance
- Parts

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SAFETY

Any power equipment can cause injury if operated improperly or if the user does not understand how to operate the equipment. Exercise caution at all times when using power equipment.

- Read the owners manual carefully for operating and service instructions before attempting to assemble or operate this equipment. Be thoroughly familiar with the proper use of this equipment.
- Read the vehicle owners manual and vehicle safety rules, and know how to operate the vehicle before using this equipment.
- Never allow children to operate the tractor or spike aerator attachment, and do not allow adults to operate without proper instructions.
- Wear eye protection when operating the aerator.
- Wear substantial footwear when operating the aerator.
- Do not allow anyone to ride or sit on spike aerator attachment frame or on towing vehicle.
- Keep the area of operation clear of all persons, particularly small children, and also pets.
- Always begin with the transmission in first (low) gear and engine at low speed, and gradually increase speed as conditions permit.
- The vehicle braking and stability may be affected with the attachment of this equipment. Be aware of changing conditions on slopes. Refer to safety rules in the vehicle owner’s manual concerning safe operation on slopes. **STAY OFF OF STEEP SLOPES.**
- Always operate up and down a slope, never across the face of a slope.
- This equipment should be operated at reduced speed on rough terrain, along creeks and ditches and on hillsides, to prevent tipping and loss of control. Do not drive too close to a creek or a ditch.
- Do not tow this equipment on a highway or any other public thoroughfare.
- Follow the maintenance instructions as outlined in this owners manual.

⚠️ Look for this symbol to point out important safety precautions. It means – **Attention!!**

**Become alert!! Your safety is involved.**

CARTON CONTENTS

1. End Plate (2)
2. Frame Angle (2)
3. Spike Disk (9)
4. Axle
5. Hitch Bracket (2)
6. Hitch Mount Arm (2)
7. Wheel (2)
8. Transport Handle (2)
### Hardware Package

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</table>

**Shown Actual Size**

**Not Shown Actual Size**
ASSEMBLY

CAUTION: The spike disks have sharp points. To avoid injury, use extra care when handling the disks and when assembling the aerator.

TOOLS REQUIRED FOR ASSEMBLY
(2) 1/2" open or boxed end wrench
(1) Hammer

Lay out and identify all parts and hardware as shown in Carton Contents and Hardware Pack illustrations.

- Assemble the two frame angles (one with the bend up and the other with the bend down) to the two end plates using eight 5/16” x 3/4” hex bolts and eight 5/16” nylock nuts. Make sure that the frame is squared up, and then tighten. See figure 1.

- Insert the end of the axle through one of the end plates. See figure 4.

- Assemble onto the axle, in order, a short spacer, a spike disk and a spring. See figure 4.

NOTE: All spike disks should face the same direction.

- Next, starting with a spike disk, assemble seven spike disks and six long spacers onto the axle. See figure 4.

- Finally, assemble a spring, a spike disk and a short spacer onto the axle. Push the end of the axle through the second end plate. See figure 4.

- Using a hammer, drive a spring pin into a hole in the axle until the pin just slightly extends through the other side of the axle. Next, assemble a flanged bearing onto the axle as shown. See figure 2.

- Carefully press or hammer a flanged bearing into each spike disk from the side shown in figure 3.
• Slide a flanged bearing onto the axle and push it into the hole in the end plate. See figure 5.

• Drive a spring pin into the hole in the axle until the pin just slightly extends through the other side of the axle. The spring pins secure the axle in the frame and should also prevent the axle from rotating. See figure 5.

• Attach two hitch arm mount brackets to the middle holes in the rear frame angle using two 5/16" x 3/4" hex bolts and two 5/16" nylock nuts. Do not tighten completely. See figure 6.

• Attach two hitch arm mount brackets to the middle holes in the front frame angle using two 5/16" x 3/4" hex bolts and two 5/16" nylock nuts. Do not tighten completely. See figure 6.

• Assemble the hitch mount arms to the outside of the four hitch arm mount brackets as shown in figure 7. Use four 5/16" x 1" carriage bolts and four 5/16" nylock nuts. Do not tighten yet. See figure 7.

• Assemble the ends of the hitch mount arms together using two 5/16" x 1-1/4" hex bolts and two 5/16" nylock nuts as shown in figure 8. Do not tighten yet.

• Assemble the hitch brackets to the hitch mount arms using two 5/16" x 2" hex bolts and two 5/16" nylock nuts as shown in figure 8. Do not tighten yet.

• Assemble the hitch pin and the large hair cotter pin to the hitch brackets.

• Tighten the bolts assembled in figure 6.
• Tighten the bolts assembled in figure 7.
• Tighten the bolts assembled in figure 8.
• Assemble a 5/16 x 1" hex bolt, washer, spacer, and 5/16" nylock nut to the front hole on each end plate. See figure 9.

![Figure 9](image9.png)

5/16" NYLOCK NUT
SPACER
WASHER
5/16 x 1" HEX BOLT

• Attach each handle to the bottom hole in the end plate using a 3/8" hex bolt and 3/8" nylock nut. Tighten so that the handle is secure but can still move freely. See figure 11.

![Figure 11](image11.png)

3/8" NYLOCK NUT
3/8 x 1" HEX BOLT

• Assemble a grip onto each handle. See figure 10.

![Figure 10](image10.png)

GRIP
HANDLE
WHEEL
SHOULDER BOLT
3/8" NYLOCK NUT

• Attach a wheel to bottom hole of each handle using a shoulder bolt and 3/8" nylock nut. See figure 10.

• Assemble a 3/8" x 3/4" clevis pin and a small hair cotter pin to the end plate and the handle on each end of the aerator to lock the handles in the transport position. See figure 12.

![Figure 12](image12.png)

3/8" x 3/4" CLEVIS PIN
SMALL HAIR COTTER PIN

• Attach the aerator to your tractor using the hitch pin and the large hair cotter pin.
OPERATION

**CAUTION:** Spike disks have sharp points. Exercise caution at all times when using the aerator.

BEFORE USING YOUR AERATOR

- **DO NOT** attempt to aerate if ground is muddy.
- If ground is extremely hard or dry, it is recommended that it be watered down for 1 or 2 hours prior to use.
- Mow lawn and remove loose clippings prior to use of lawn aerator.
- Attach the aerator to the tractor hitch and check to see that the aerator is level. Adjust by loosening the bolts which fasten the hitch mount arms to the hitch arm mount brackets. Raise or lower the position of the arms until the aerator is level. See figure 9.

HOW TO USE YOUR AERATOR

Aerating cuts small holes in the soil to create reservoirs that bring oxygen, fertilizer and water into the root zone. For best performance of the spike aerator attachment, the following lawn preparation and operation is recommended.

- Move clevis pins in handles to upper holes in handles.
- Lower aerator spikes to ground.
- Start tractor engine with controls in neutral and place throttle at slow engine speed.
- Engage shift lever into lowest possible forward speed and increase speed as conditions permit.
- Aerate in the straightest line possible, making overlapping passes to increase spike point pattern.
- To prevent lawn damage, avoid sharp turns.
- On sloped lawns aerate in up and down direction. **DO NOT** aerate across the face of slopes.
- To increase the depth of spike point penetration, weight can be added to the frame. Two 35 lb. patio type concrete blocks will fit easily onto the frame. The added weight can be secured to the frame with straps or other binding material. **DO NOT** exceed 90 lb. weight capacity. See figure 13.

MAINTENANCE/STORAGE

CUSTOMER RESPONSIBILITIES

- Read and follow the maintenance schedule and the maintenance procedures listed in this section.

<table>
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<tr>
<th>MAINTENANCE SCHEDULE</th>
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<td>Check for loose fasteners</td>
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<td>Lubricate Spike Disk Hubs</td>
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- Spiker points can be sharpened with a small grinder periodically to maintain good penetration. Spike disks should be removed to sharpen points.
- Before each use check nuts and bolts for tightness.
- Clean after each use. If rust appears on shield or spikes, sand lightly and coat with enamel paint.
- Lubricate the spike disk hubs with a small amount of light oil or grease at the beginning of each season.
- Always store in dry area when not in use. Coat bare metal with light oil or paint.
## PARTS

### 45-0510 36" SPIKE AERATOR

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