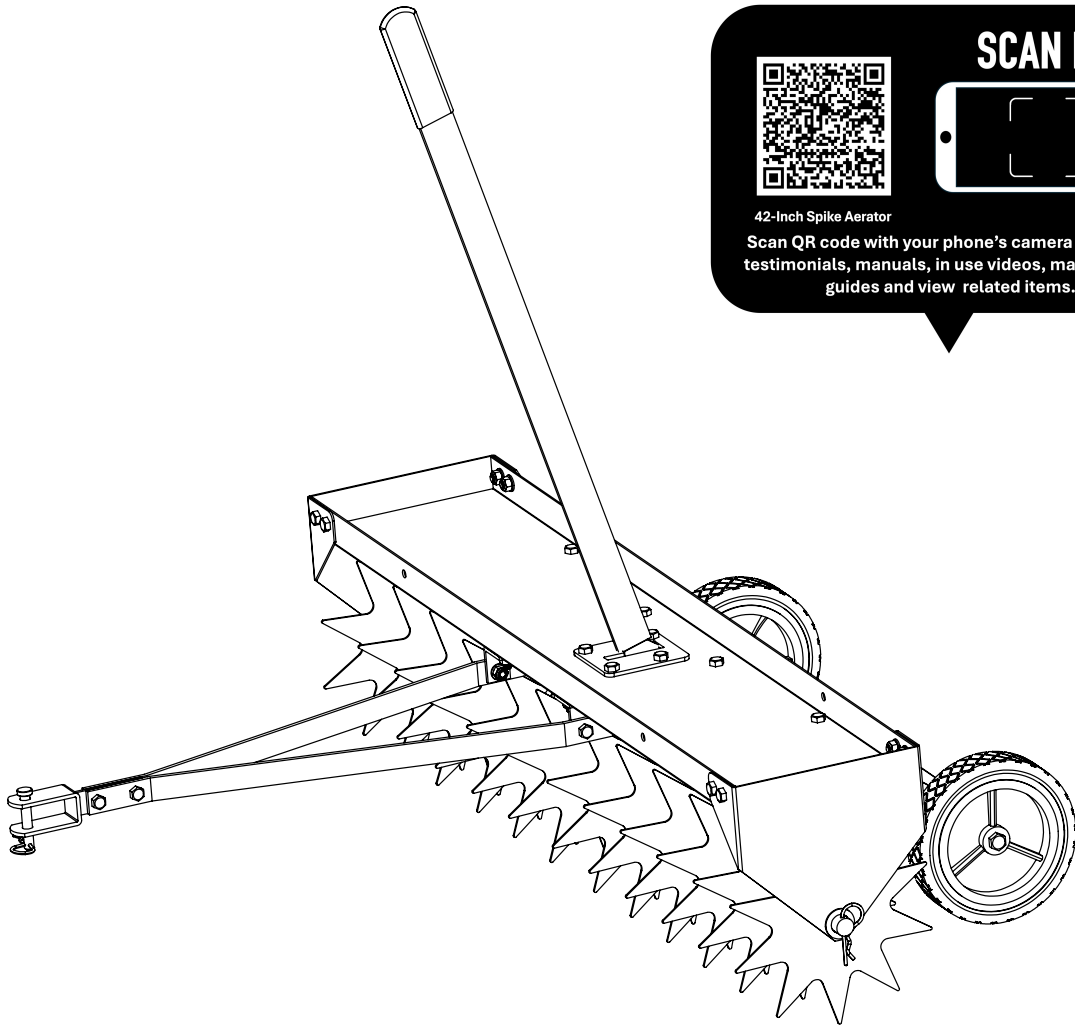




42in. Spike Aerator

Owner's Manual



! WARNING: Read carefully and understand all ASSEMBLY AND OPERATION INSTRUCTIONS before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

YTL-694-480

Item # 49178

01012022

SAVE THESE INSTRUCTIONS

Thank you very much for choosing this Yard Commander product! For future reference, please complete the owner's record below:

Model:

Purchase Date:

Save the receipt, warranty and these instructions. It is important that you read the entire manual to become familiar with this product before you begin using it.

This product is designed for certain applications only. The manufacturer cannot be responsible for issues arising from modification. We strongly recommend this product not be modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the product until you have first contacted us to determine if it can or should be performed on the product.

For technical questions please call: 888-723-6534



42" Spike Aerator

YTL-694-480

WARNING

1. To prevent serious injury or property damage, read owner's manual before operating.
2. Inspect the work area before each use. Keep work area clean, dry, free of clutter, and well lit. Cluttered, wet, or dark work areas can result in injury.
3. Keep children and bystanders away from the work area while operating the tool. Do not allow children to handle the spike aerator.
4. Wear the proper personal protective equipment when necessary. Use ANSI compliant safety goggles/safety glasses with side shields, or when needed, a face shield. Use a dust mask in dusty work conditions. Also use non-skid safety shoes/boots, hardhat, heavy-duty work gloves, dust collection systems, and hearing protection when appropriate. This applies to ALL persons in the work area.
5. Never allow riders on equipment or tow vehicle.
6. DO NOT exceed this implement's maximum speed of 5 MPH. Exceeding this speed may result in loss of control during transport or braking.
7. DO NOT use if equipment is damaged. Repair equipment before continuing use.
8. Operate from lawn tractor/ATV seat only.
9. Sharp points can cause injury. Store out of reach of children. Not for use by or around children.

Made in Thailand

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Intended Use

This Spike Aerator has 120 spike tines that can penetrate up to 2" into the ground to allow water and nutrients to reach plant's roots in compacted soil. Additional weight up to 70 lbs. can be added for deeper penetration.

Technical Specifications

Property	Specification
Working width	42 inches
Spike quantity	120
Spike length	9 inches
Additional weight (maximum)	70 lbs

Important Safety Information

⚠ WARNING

- Read and understand all instructions. Failure to follow all instructions may result in serious injury or property damage.
- The warnings, cautions, and instructions in this manual cannot cover all possible conditions or situations that could occur. Exercise common sense and caution when using this tool. Always be aware of the environment and ensure that the tool is used in a safe and responsible manner.
- Do not allow persons to operate or assemble the product until they have read this manual and have developed a thorough understanding of how it works.
- Do not modify this product in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the product. There are specific applications for which the product was designed.
- Use the right tool for the job. DO NOT attempt to force small equipment to do the work of larger industrial equipment. There are certain applications for which this equipment was designed. It will do the job better and more safely at the capacity for which it was intended. DO NOT use this equipment for a purpose for which it was not intended.
- Industrial or commercial applications must follow OSHA requirements.

⚠ WARNING

WORK AREA SAFETY

- Inspect the work area before each use. Keep work area clean, dry, free of clutter, and well lit. Cluttered, wet, or dark work areas can result in injury. Using the aerator in confined work areas may put you dangerously close to other cutting tools and rotating parts.
- Do not allow the aerator to come into contact with an electrical source. The tool is not insulated and contact will cause electrical shock.
- Keep children and bystanders away from the work area while operating the tool. Do not allow children to handle the aerator.
- Be aware of all power lines, electrical circuits, water pipes, and other mechanical hazards in your work area. Some of these hazards may be hidden from your view and may cause personal injury and/or property damage if contacted.

⚠ WARNING

PERSONAL SAFETY

- Stay alert, watch what you are doing, and use common sense when operating the tool. Do not use the tool while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating the tool may result in serious personal injury.
- Dress properly. Do not wear loose clothing, dangling objects, or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts. Air vents on the tool often cover moving parts and should be avoided.
- Wear the proper personal protective equipment when necessary. Use ANSI Z87.1 compliant safety goggles (not safety glasses) with side shields, or when needed, a face shield. Use a dust mask in dusty work conditions. Also use non-skid safety shoes, hardhat, gloves, dust collection systems, and hearing protection when appropriate. This applies to all persons in the work area.
- Do not overreach. Keep proper footing and balance at all times.
- Do not use the tool when tired or under the influence of drugs, alcohol or medication.

⚠ CAUTION

AERATOR USE AND CARE

- Do not force the aerator. Aerators do a better and safer job when used in the manner for which they are designed. Plan your work and use the correct aerator for the job.
- Check for damaged parts before each use. Carefully check that the aerator will operate properly and perform its intended function. Replace damaged or worn parts immediately. Never operate the aerator with a damaged part.
- Store the aerator when it is not in use. Store it in a dry, secure place out of the reach of children. Inspect the aerator for good working condition prior to storage and before re-use.
- Use only accessories that are recommended by the manufacturer for use with your aerator. Accessories that may be suitable for one aerator may create a risk of injury when used with another aerator.
- Do not leave the aerator tow vehicle running unattended.
- Inspect the aerator damage or excessive wear before each use. If you find damage, do not use the aerator.

Specific Operation Warnings

⚠ WARNING

CRUSHING AND LACERATION HAZARD

- The Aerator is heavy. Be careful when moving or lifting as hands, fingers, feet, and other body parts can be crushed.
- The Aerator has sharp spikes. Keep hands clear as these spikes can cut.
- DO NOT exceed the aerator's maximum speed of 5 MPH. Exceeding this speed may result in loss of control during transport or braking.
- Do not exceed the Spike Aerator load capacity.
- Distribute the load evenly.
- Use the Spike Aerator on flat and level surfaces capable of supporting the Spike Aerator and its maximum load. Pulling or pushing a load on slanted or uneven surfaces can result in loss of control.
- Never allow riders on equipment.
- Keep bystanders at least 20 feet away while operating.
- Operate from tractor seat only.
- Lower equipment to ground, stop engine, remove key and set brake before dismounting tractor.
- DO NOT use if equipment is damaged. Repair equipment before continuing use.
- Keep seat belt securely fastened while operating. Falling off can result in impalement or being run over.
- Do not exceed the load capacity of 70 pounds.
- Sharp points can cause injury. Be cautious when replacing spike disks.
- Store out of reach of children. Not for use by or around children.
- If equipped, parking stands must be functional, kept in good repair, and stored on the unit. Park and store on a hard, level surface.
- Remove any loaded weight after use.

FALLING OFF CAN RESULT IN IMPALEMENT OR BEING RUN OVER

- Tractor must be equipped with Roll Over Protection Structure (or ROPS CAB) and a seat belt. Keep foldable ROPS system in "locked up" position at all times.
- Keep seat belt securely fastened.
- Never allow riders on equipment.
- Raised equipment can drop and crush.
- Before working underneath, follow all instructions and safety rules in operator's manual and securely block all corners of equipment with jack stands.
- Secure blocking prevents equipment dropping from mechanical component failures.

FALLING OFF OR FAILING TO BLOCK SECURELY CAN RESULT IN SERIOUS INJURY OR DEATH

Assembly

Step 1 Hardware Needed:

8 – Hex Bolt, M8 x 20 (Q)

8 – Nylon Nut, M8 (S)

Step 1: Install the End Plates (D) to the **inside** slots at each end of the Tray (A) using two Hex Bolts (Q) and two Nylon Nuts (S) per End Plate. Make sure you leave the rear hole open on each End Plate, as the plate must be rotatable for the axle assembly.

Do not tighten.

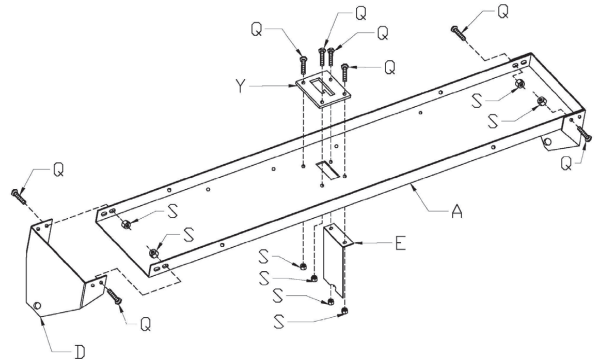
See Figure 1.

Attach the Axle Support Bracket (E) and the Tray Steel Bracket (Y) to the Tray (A) using four Hex Bolts (Q) and four Nylon Nuts (S).

Do not tighten.

See Figure 1.

Figure 1



Step 2 Hardware Needed:

6 – Hex Bolt, M8 x 20 (Q)

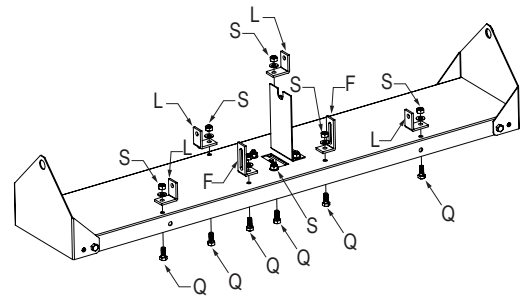
6 – Nylon Nut, M8 (S)

Step 2: Turn the Tray (A) upside down as shown in Figure 2 so that the rear of the tray (four holes in the bottom) is facing you. Attach the two Hitch Arm Mount Brackets (F) and four Angle Brackets (L) to the bottom of the Tray using six Hex Bolts (Q) and six Nylon Nuts (S).

Do not tighten completely.

See Figure 2.

Figure 2



Step 3 Hardware Needed:

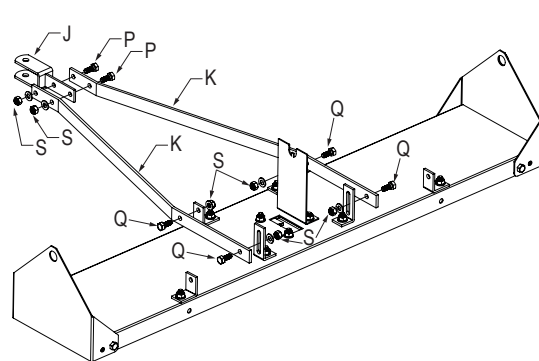
4 – Hex Bolt, M8 x 20 (Q)

2 – Hex Bolt, M8 x 25 (P)

6 – Nylon Nut, M8 (S)

Step 3: Attach the two Hitch Arms (K) to the Hitch Arm Mount Brackets (F) and inner Angle Brackets (L) using four Hex Bolts (Q) and four Nylon Nuts (S). Attach the Hitch Bracket (J) between the Hitch Arm Mount Brackets (F) using two Hex Bolts (P) and two Nylon Nuts (S). See Figure 3.

Figure 3



Step 4 Hardware Needed:

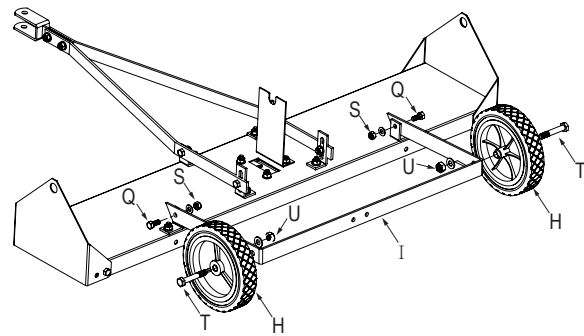
2 – Hex Bolt, M8 x 20 (Q)
 2 – Nylon Nut, M8 (S)
 2 – Hex Bolt, M10 x 60 (T)
 2 – Nylon Nut, M10 (U)

Step 4: Attach the Wheel Mount Bracket (I) to the outer Angle Brackets (L) using two Hex Bolts (Q) and two Nylon Nuts (S). Tighten and then loosen the nuts 1/4 turn.

Attach the two Wheels (H) to the Wheel Mount Bracket (I) using two Bolts (T) and two Nylon Nuts (U). See Figure 4.

Tighten the nuts attaching the Angle Brackets (L) to the Tray (A). See Figure 4.

Figure 4

**Step 5 Hardware Needed:**

5 – Long Spacer, 22 x 1.2 x 58 (N)

Step 5 Long End: Pivot the End Plate (D) on your left side down out of the way. Place the short end of the Axle (B), measured from the middle blind hole, through the End Plate (D) on your right side. Fit the middle hole in the Axle (B) down onto the tab on the Axle Support Bracket (E). See Figure 5.

Assemble the following parts in sequence on to the long end of the Axle (B). See Figure 5.

1. Long Spacer (N), and Spike Disk (C)
2. Long Spacer (N) and Spike Disk (C).
3. Long Spacer (N) and Spike Disk (C).
4. Long Spacer (N) and Spike Disk (C).
5. Long Spacer (N) and Spike Disk (C).
6. Spike Disk (C).

Figure 5

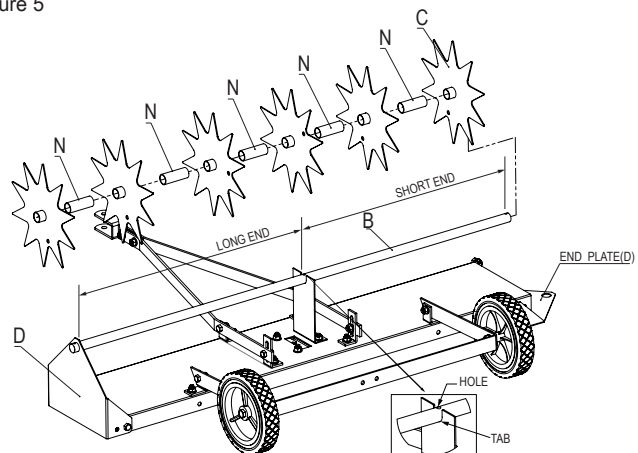
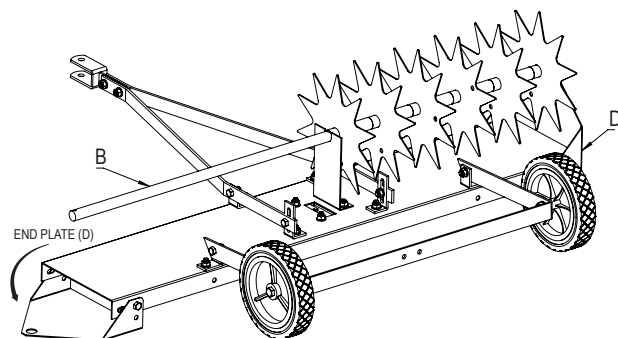


Figure 5-1



Step 5: Pivot the End Plate (D) on your left side up onto the end of the Axle. See Figure 5-1.

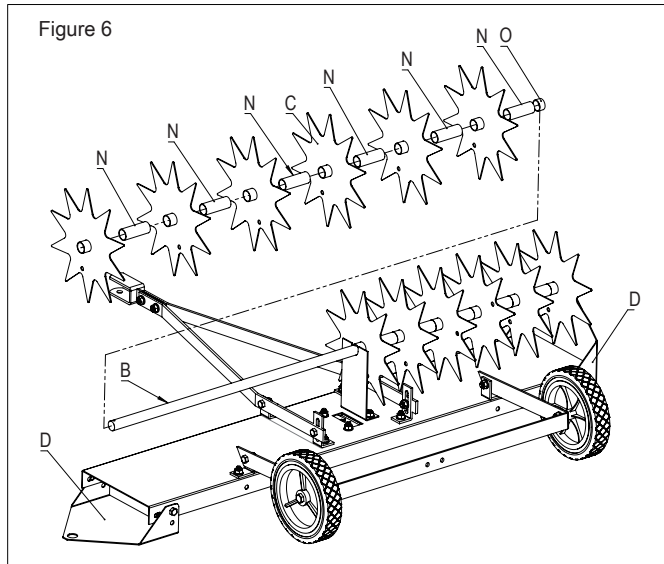
Pivot the End Plate (D) on your right side down out of the way. See Figure 5-1.

Step 6 Hardware Needed

- 1 – Short Spacer, 22 x 1.2 x 12 (O)
- 6 – Long Spacer, 22 x 1.2 x 58 (N)

Step 6 Short End: Assemble the following parts in sequence on to the short end of the Axle (B). See Figure 6.

1. Short Spacer (O), Long Spacer (N) and Spike Disk (C).
2. Long Spacer (N) and Spike Disk (C).
3. Long Spacer (N) and Spike Disk (C).
4. Long Spacer (N) and Spike Disk (C).
5. Long Spacer (N) and Spike Disk (C).
6. Long Spacer (N) and Spike Disk (C).



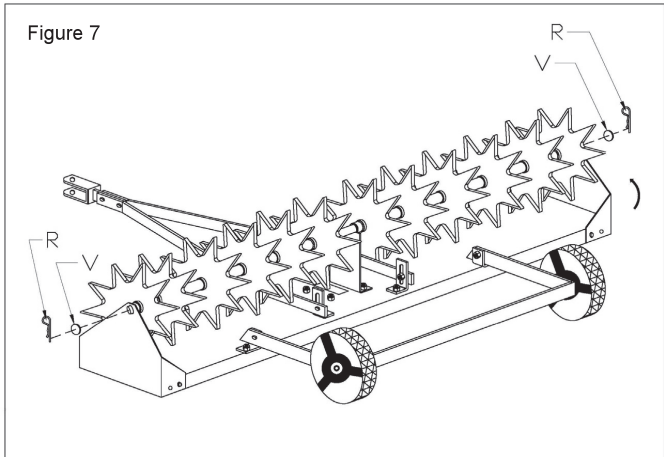
Step 7 Hardware Needed

- 2 – Flat Washer ϕ 20 (V)
- 2 – Hair Cotter Pin, ϕ 3 x 65 (R)

Step 7: Pivot the End Plate (D) up onto the end of the Axle (B). See Figure 7.

Put one Flat Washer (V) on the end of the Axle (B). Insert a Hair Cotter Pin (R) into the hole at the end of the Axle (B). See Figure 7.

Repeat Step 7 for the other end of the Axle (B). See Figure 7.



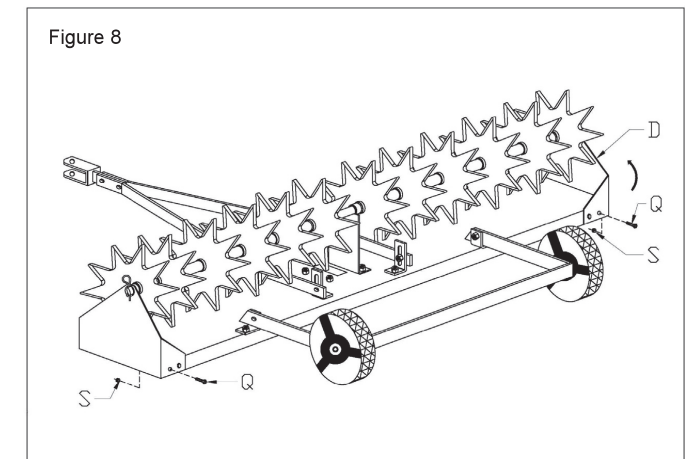
Carefully tip the tray over onto its side for the following instructions:

Step 8 Hardware Needed

- 4 – Hex Bolt, M8 x 20 (Q)
- 4 – Nylon Nut, M8 (S)

Attach four Hex Bolts (Q) and four Nylon Nuts (S) to the holes that were left empty at the corners of the Tray. **Tighten** all eight corner bolts. See Figure 8.

Square up the Axle Support Bracket with the Tray. **Tighten the Hex Bolts and Nylon Nuts assembled in Step 1 and Step 2.**



Step 9 Hardware Needed

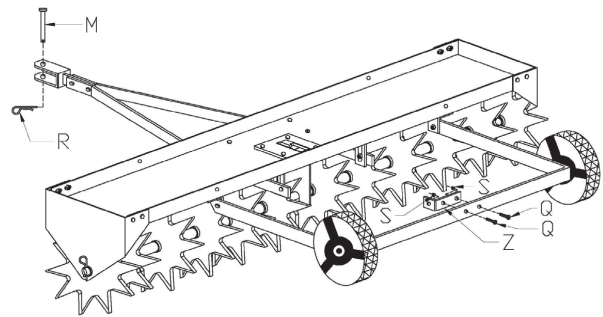
- 2 – Hex Bolt, M8 x 20 (Q)
- 2 – Nylon Nut, M8 (S)
- 2 – Hitch Pin, 10 x 68 (M)
- 1 – Hair Cotter Pin, $\Phi 3 \times 65$ (R)

Step 9: Attach the Lift Handle Bracket (Z) to the Wheel Mount Bracket (I) using two Hex Bolts (Q) and Nylon Nuts (S).

Tighten the nuts that attach the Angle Brackets (L) to the Tray (A).

Put Hitch Pin (M) through Hitch Bracket (J) and Secure with Hair Cotter Pin (R).

Figure 9

**Step 10 Hardware Needed**

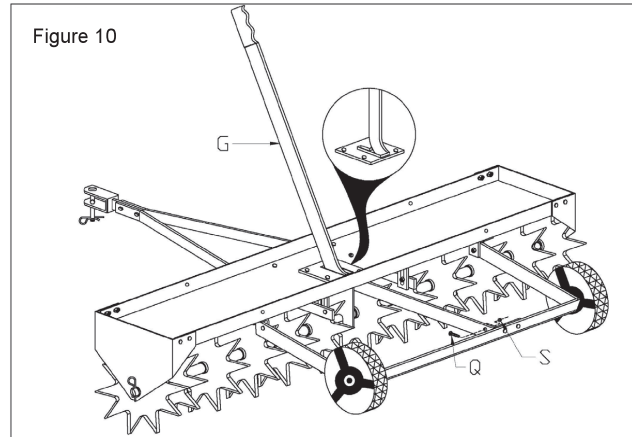
- 1 – Hex Bolt, M8 x 20 (Q)
- 1 – Nylon Nut, M8 (S)

Step 10: Attach the Lift Handle (G) to the Lift Handle Bracket (Z) using one Hex Bolt (Q) and one Nylon Nut (S).

Tighten securely.

See Figure 10.

Figure 10



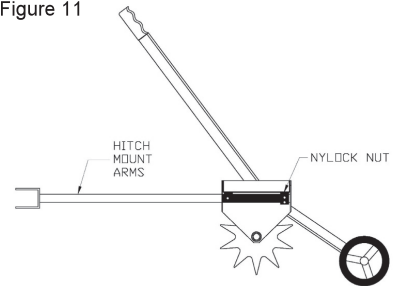
Before Each Use

- Always check for damaged or worn-out parts.
- Apply lubricating oil at each spike disk bearing and axle bearing before each use.
- Check hardware for tightness before each use.

Operating Instructions

- If adding additional weight, be sure weight is secured to the Tray.
- Tray openings allow access to Tines for cleaning and service only, they are not be used in any other application.
- To level the Tray after the aerator is attached to the towing vehicle's hitch, loosen nylon nuts holding the hitch mount arms to the brackets at the rear of the tray. Make the tray as level as possible and then tighten the nuts. See Figure 11.
- The Tray may be raised to the transport position by moving the Lift Handle backward and over, so that it rests on the notch.
- The Tray may be lowered to the working position by moving the Lift Handle over and forward.
- Start the towing vehicle's engine with controls in neutral and then place throttle at a slow engine speed. Engage the shift lever in the lowest possible forward speed and then lower the aerator, allowing the spike points to enter the ground. Increase speed as conditions permit.
- Aerate in the straightest line possible.
- Make overlapping passes to increase the density of the spike point pattern.
- To prevent damage to the lawn, do not make sharp turns while spike points are engaged in the ground.
- Aerate in an up and down direction on the slopes.
- If the ground is extremely hard and dry, it should be watered down for one to two hours prior to use of the aerator.
- Do not aerate if the ground is too wet and muddy.

Figure 11



After Each Use

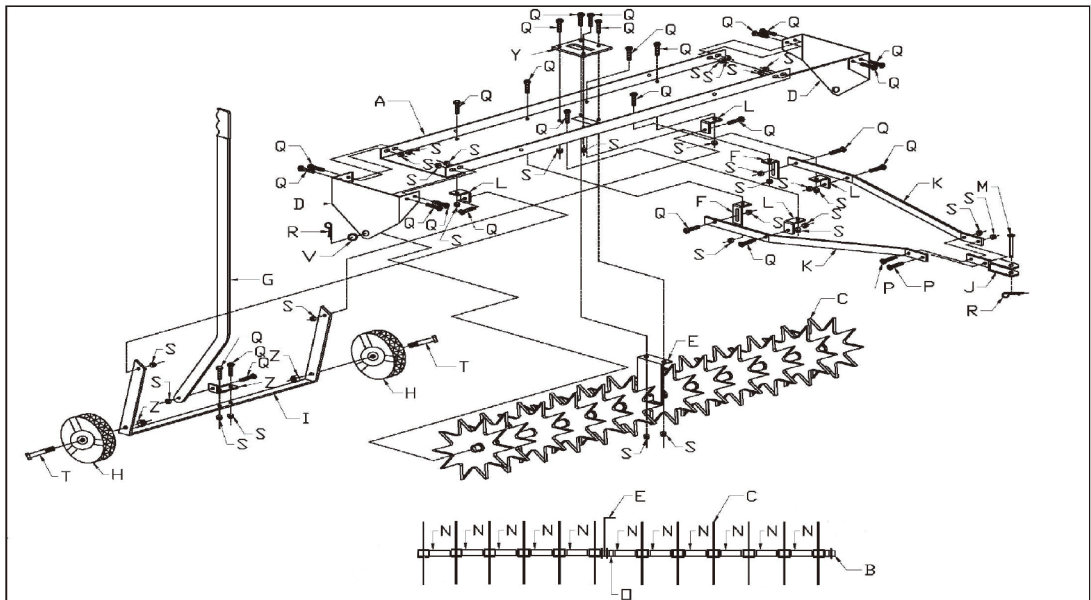
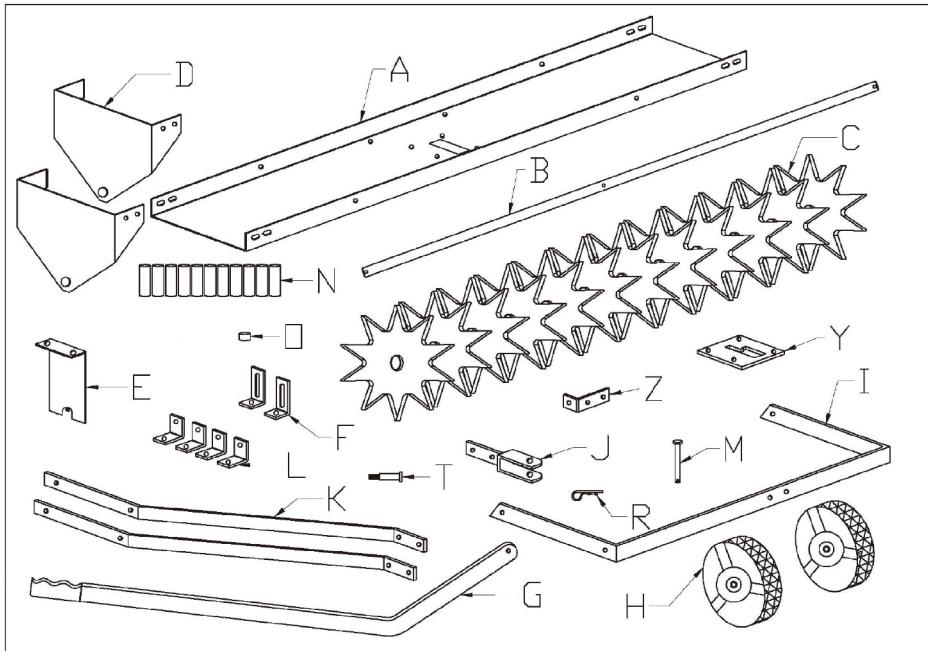
- Apply a light coat of oil on the spike disks after each use to prevent rusting.
- Store aerator in a dry, secure place out of the reach of children.

Maintenance

Maintain your aerator. It is recommended that the general condition of any aerator be examined before it is used. Keep your aerator in good repair by adopting a program of conscientious repair and maintenance in accordance with the recommended procedures found in this manual.

- Keep all cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bend and are easier to control.
- Keep handles dry, clean, and free from oil and grease.

Parts Diagram



Manual Part #	YTL #	Description Qty.	Part No.	Description Qty.	Qty
A	694-480-001	Tray			1
B	694-480-002	Axle			1
C	694-480-003	Spike Disk			12
D	694-480-004	End Plate			2
E	694-480-005	Axle Support Bracket			1
F	694-480-006	Hitch Arm Mount Bracket			2
G	694-480-007	Lift Handle			1
H	694-480-008	Wheel			2
I	694-480-009	Wheel Mount Bracket			1
J	694-480-010	Hitch Bracket			1
K	694-480-011	Hitch Arm			2
L	694-480-012	Angle Bracket			4
M	694-480-013	Hitch Pin, 10 x 68			1
N	694-480-014	Long Spacer			11
O	694-480-015	Short Spacer			1
P	694-480-016	Hex Bolt,M8 x 25			2
Q	694-480-017	Hex Bolt,M8 x 20			27
R	694-480-018	Hair Cotter Pin,Cl>3 x 65			3
S	694-480-019	Nylon Nut,M8			29
T	694-480-020	Hex Bolt,M10 x 60			2
U	694-480-021	Nylon Nut,M10			2
V	694-480-022	Flat Washer cji 20			2
Y	694-480-023	Tray Steel Bracket			1
Z	694-480-024	Lift Handle Bracket			1

Replacement Parts

- For replacement parts and technical questions, please call Customer Service at 1-(888)-723-6534.
- Not all product components are available for replacement. The illustrations provided are a convenient reference to the location and position of parts in the assembly sequence.
- When ordering parts, the following will be required: model number, serial number/lot date code, and description.
- The distributor reserves the rights to make design changes and/or improvements to product lines and manuals without notice.

WARRANTY

Limited Warranty

YTL International warrants that the product is free from defects in material and workmanship under normal use for

this warranty, YTL International shall, at its exclusive option, either repair or replace the product (spike aerator).

YTL International shall have no obligation under the warranty set forth above if the original purchaser or other person: improperly assembles the product, misuses the product, overloads the product, operates or uses the product contrarily to instructions, or if the product has been repaired or altered by anyone other than an authorized representative.

Limited Warranty Exclusions

The limited warranty does not cover cosmetic defects, including, but not limited to, product paint and decals; nor does it cover items subject to ordinary wear from use of the product, including, but not limited to, tires.

The warranty shall be voided by alteration of the product (except by YTL International), tampering with, improper installation or maintenance, accident or misuse. This warranty expressly excludes all damage to the product resulting from careless or neglectful handling or transportation once it has left YTL International's premises.

The product (lawn sweeper) requires consistent, periodic service for optimal performance and normal maintenance of the product is expressly excluded from the warranty. The warranty does not cover repair when normal use has exhausted the life of a part or the equipment as a whole. YTL International also does not warranty consumable

The warranty will not apply to parts and/or labor if the product (lawn sweeper) has been misused, neglected,

Limits of Implied Warranty and Consequential Damage Exclusion

YTL International disclaims any obligation to cover any loss of time, use of this product, freight, or any incidental or consequential claim by anyone from using this lawn sweeper. This warranty is given in place of all other

for purpose, or merchantability and the vendor accepts no liability, under any circumstances whatsoever, for any consequential damage or loss suffered by anyone as a result of using or being unable to use the product.

An exchanged/replaced product will be subject to the original limited warranty and warranty coverage will be calculated from the purchase date of the original product.

The warranty gives the consumer certain and specific legal rights which may vary from state to state. Your state may also have other rights you may be entitled to that are not listed within this warranty.

Please contact YTL International directly for warranty related questions and requests.

Contact Information

YTL International Inc.

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Corona, CA 92879

Phone: (888) 723-6534

E-mail: parts@ytlinternational.com

Website: www.ytlinternational.com