USER MANUAL

PIRANHA DETATCHERS

PIRANHA

Keep this manual for future reference.

WARNING

Before using or attempting to assemble this detatcher, you must read, understand, and follow the entire manual and all warnings.

CONTENTS

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FEATURES FOR SAFE OPERATION

Remember: Any electrical device can cause injuries during operation or if used incorrectly.

Pay attention to this symbol, it indicates important safety precautions. It means Caution! Alert! Your safety is at risk.

WARNING: The brakes and stability of the vehicle may be affected by attachments or a trailer. Be aware of changed conditions on inclines.

Always exercise caution when using equipment.

1. Carefully read this operating and service manual before attempting to assemble and use the device. Familiarize yourself thoroughly with the proper use of the equipment.
2. Read the vehicle's operating manual and safety instructions, and become familiar with its operation before using it.
3. Never allow children to operate the tractor or the lawn aerator trailer, and do not let adults operate the equipment without proper instruction.
4. The lawn aerator trailer has sharp parts. Always exercise caution and wear sturdy footwear when operating the lawn aerator.
5. Do not allow anyone to sit or ride on the frame of the lawn aerator trailer or on the towing vehicle.
6. Ensure that no persons, especially small children, or pets are in the operating area.
7. Always start moving in the first (lowest) gear and at a low speed, then gradually increase the speed as conditions permit.
8. Brakes and stability of the vehicle may be affected by the trailer. Be aware of changed conditions on inclines. Refer to the safety instructions in the vehicle's operating manual for safe operation on slopes.

KEEP AWAY FROM STEEP TERRAIN.

9. Work on slopes always going up and down. Never work across a slope.
10. The equipment should be operated at reduced speed on uneven terrain, near streams and ditches, and on slopes to avoid tipping and to maintain control. Do not drive too close to a stream or ditch.
11. Do not tow the trailer on roads or other public thoroughfares.

PIRANHA DETATCHERS USER MANUAL

PREPARATION

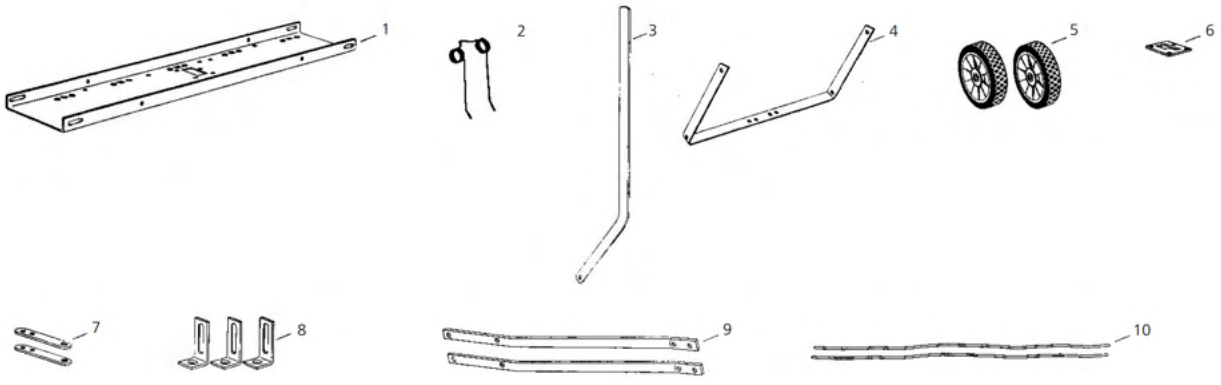
ESTIMATED ASSEMBLY TIME: APPROXIMATELY 65 MINUTES.

REMOVE ALL PARTS AND SCREWS FROM THE PACKAGING. COMPARE THE PARTS AND QUANTITIES WITH THE PARTS LIST. IF ANY PARTS ARE MISSING, CONTACT CUSTOMER SERVICE FOR A REPLACEMENT.

TOOLS REQUIRED FOR ASSEMBLY:
- TWO 1/2" WRENCHES
- 9/16" WRENCH
- 3/4" WRENCH OR ADJUSTABLE WRENCH
- PLIERS

PARTS LIST

PART NO.	DESCRIPTION	QUANTITY
1	BASE PLATE	1
2	SPRING TINES	10
3	CONTROL LEVER	1
4	WHEEL CARRIER	1
5	WHEELS	2
6	CONTROL LEVER LOCK	1
7	COUPLING PLATES	2
8	MOUNTING BRACKETS FOR DRAWBAR ARM	3
9	DRAWBAR ARMS	2
10	ALIGNMENT WIRE FOR SPRINGS	2



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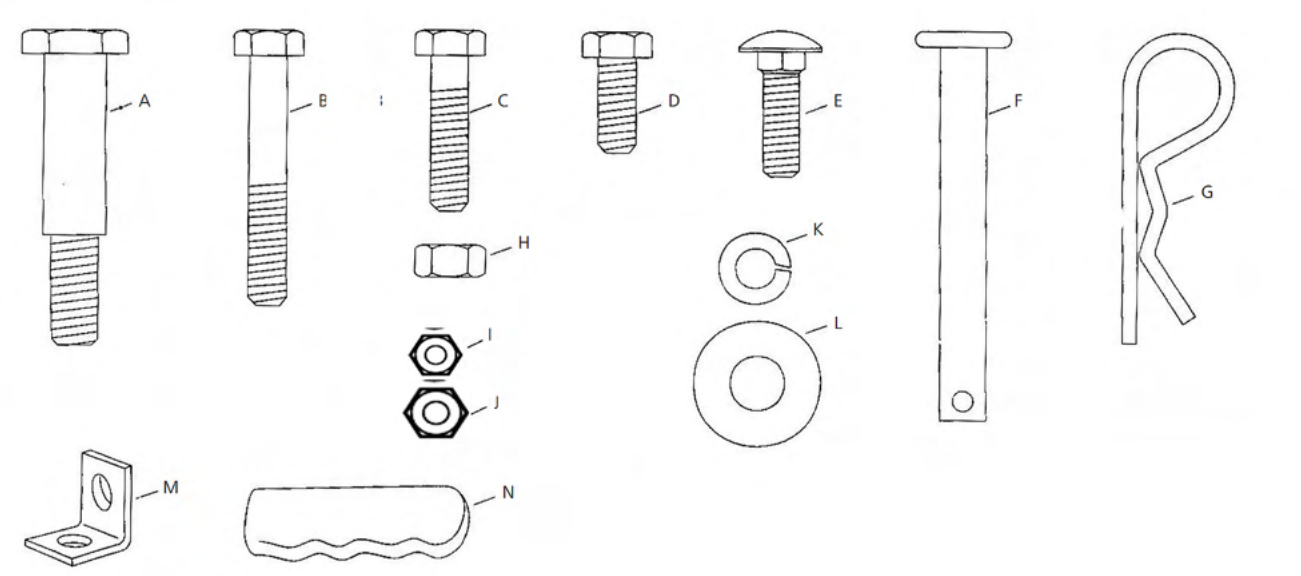
SCREW LIST

PART NO	DESCRIPTION	QUANTITY
A	DOWEL PIN	2
B	HEX BOLT, M8X45	2
C	HEX BOLT, M8X30	2
D	HEX BOLT, M8X20	15
E	CARRIAGE BOLT, M8X25	14
F	COUPLING PIN M9X75	1
G	COTTER PIN	1
H	HEX NUT M8	14
I	HEX LOCK NUT M8	19
J	HEX LOCK NUT M12	2
K	LOCK WASHER M8	14
L	WASHER M12	10
M	CONNECTING BRACKET	4
N	HANDLE	1



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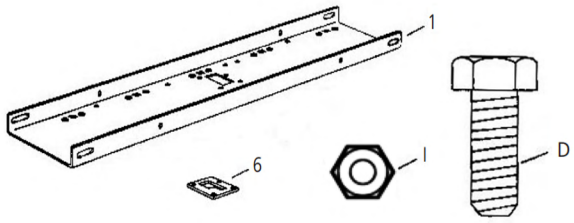
ASSEMBLY INSTRUCTIONS

STEP 1:

Required Screws and Parts:

Part No.	Description	Qty.
1	Base Plate	1
6	Control Lever Lock	1
D	Hex Bolt, M8x20	4
I	Hex Lock Nut, M8	4



Attach the control lever lock to the base plate using four M8x20 hex bolts and four M8 hex lock nuts. Refer to Figure 1 for guidance. Tighten securely.

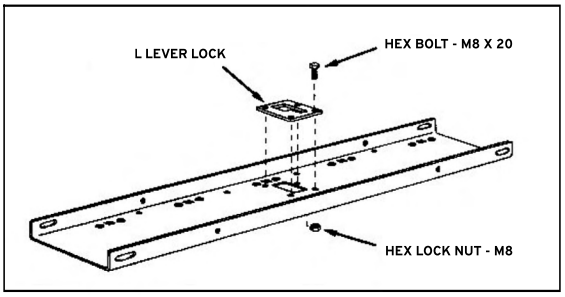
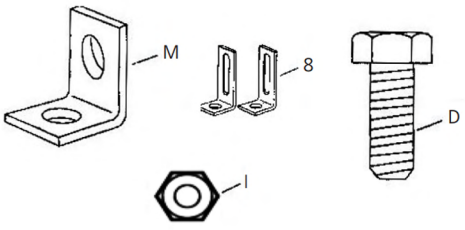


FIGURE 1

STEP 2:

Required Screws and Parts:

Part No.	Description	Qty.
8	Mounting Bracket	2
M	Connecting Bracket	4
D	Hex Bolt, M8x20	6
I	Hex Lock Nut, M8	6



a. Turn the base plate over, see Figure 2.

b. Attach the two mounting brackets for the drawbar arms and the two connecting brackets to the underside of the base plate. Secure the brackets in the four round holes at the rear of the base plate with four M8x20 hex bolts and M8 hex lock nuts. Do not tighten yet. See Figure 2.

c. Mount the two connecting brackets into the round holes at the front of the base plate. Use two M8x20 hex bolts and M8 hex nuts. Do not tighten yet. See Figure 2.

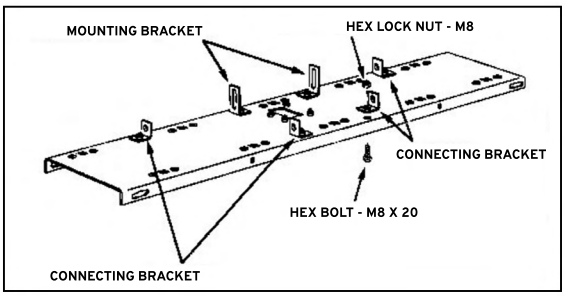


FIGURE 2

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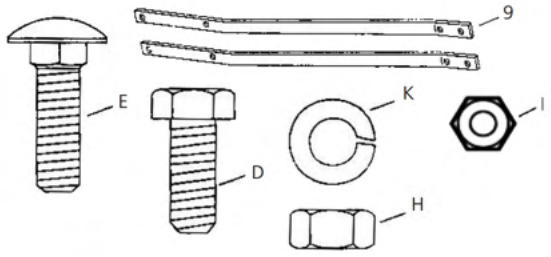
STEP 3:

Required Screws and Parts:

Part No.	Description	Qty.
1	Base Plate	1
6	Control Lever Lock	1
D	Hex Bolt, M8x20	4
I	Hex Lock Nut, M8	4

a. Attach the drawbar arms to the outside of the connecting brackets on the front of the base plate. Use two M8x20 hex bolts and M8 hex lock nuts. Tighten the nuts, then slightly loosen them. See Figure 3.

b. Attach the drawbar arms to the outside of the mounting brackets for the drawbar arms at the rear of the base plate. Use two M8x25 carriage bolts, M8 lock washers, and M8 hex nuts. Do not tighten yet. See Figure 3.



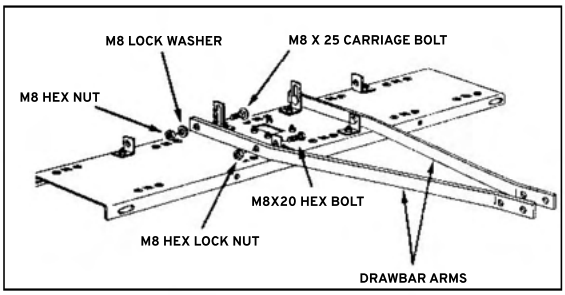


FIGURE 3

STEP 4:

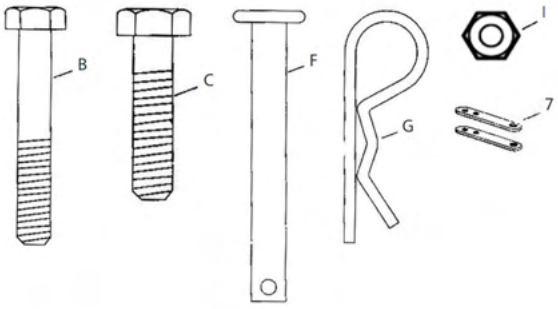
Required Screws and Parts:

Part No.	Description	Qty.
C	Hex Bolt, M8x30	1
I	Hex Lock Nut, M8	1
7	Coupling Plates	4
B	Hex Bolt, M8x45	4
F	Coupling Pin M9x75	1
G	Cotter Pin	1

a. Connect the front ends of the drawbar arms using two M8x30 hex bolts and M8 hex lock nuts. Do not tighten yet.

b. Attach the coupling plates to the top and bottom of the drawbar arms using two M8x45 hex bolts and M8 hex lock nuts. Do not tighten yet.

c. Insert the M9x75 coupling pin through the coupling plates and secure it with the cotter pin. See Figure 4.



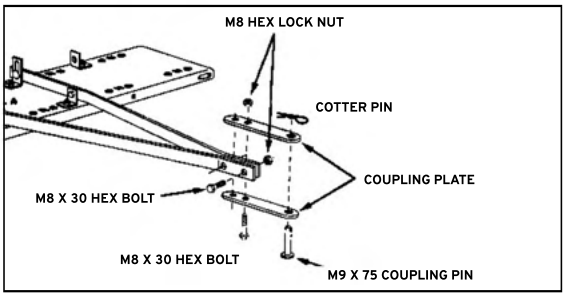


FIGURE 4

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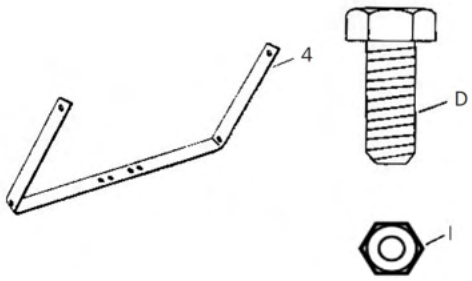
NOTES:
1. TIGHTEN THE SCREWS AND NUTS ASSEMBLED IN STEP 4.
2. TIGHTEN THE SCREWS AND NUTS ASSEMBLED IN STEP 2.
3. TIGHTEN THE SCREWS AND NUTS ASSEMBLED IN STEP 3.

STEP 5:

Required Screws and Parts:

Part No.	Description	Qty.
4	Wheel Carrier	1
D	Hex Bolt, M8x20	2
I	Hex Lock Nut, M8	2



Mount the wheel carrier to the outside of the connecting brackets using two M8x20 hex bolts and M8 hex lock nuts. The ends of the wheel carrier must be mounted as shown in Figure 5. Tighten the bolts, then slightly loosen them.

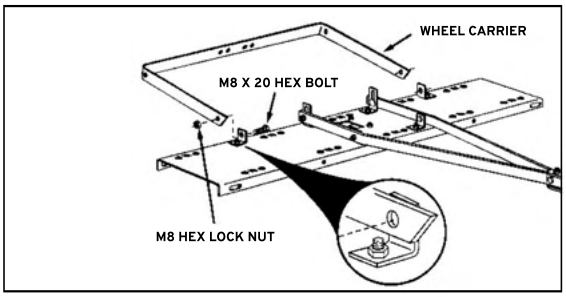
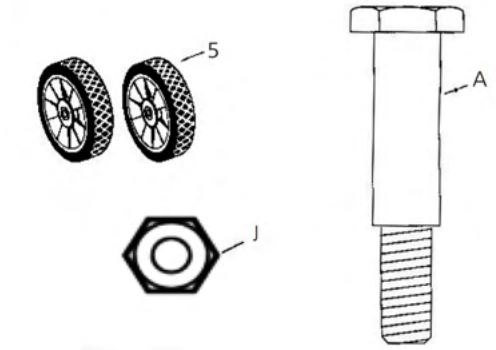


FIGURE 5

STEP 6:

Required Screws and Parts:

Part No.	Description	Qty.
5	Wheels	2
A	Dowel Pin	2
J	Hex Lock Nut, M12	2



Attach the wheels to the wheel carrier using two dowel pins and two M12 hex lock nuts. Tighten them securely. See Figure 6.

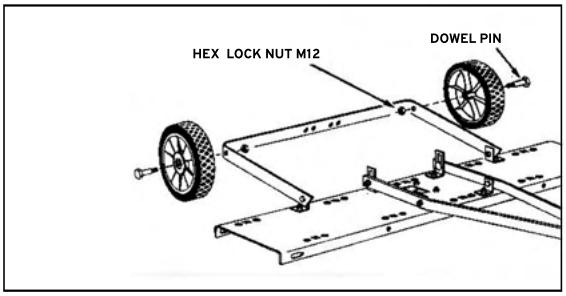


FIGURE 6

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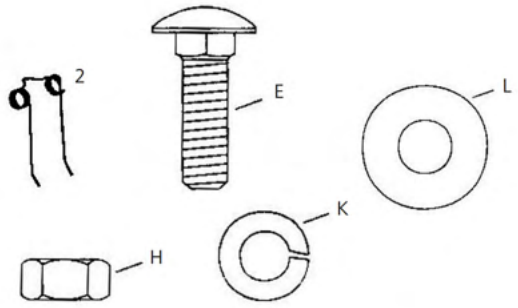
STEP 7:

Required Screws and Parts:

Part No.	Description	Qty.
2	Spring Tines	10
E	Carriage Bolt	10
L	Washer M12	10
K	Lock Washer M8	10
H	Hex Nut M8	10



Mount ten spring tines in the square holes on the underside of the base plate. For each spring tine, use an M8x25 carriage bolt, an M12 washer, an M8 lock washer, and an M8 hex nut. Tighten securely. See Figure 7.

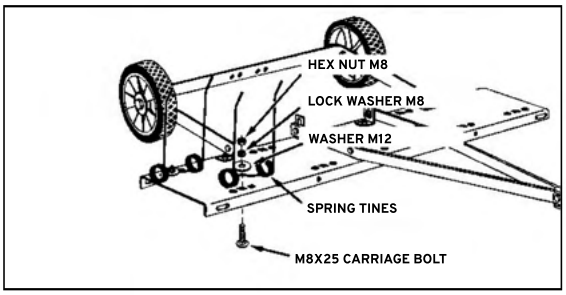


FIGURE 7

STEP 8:

Required Screws and Parts:

Part No.	Description	Qty.
10	Alignment Wire for Springs	2

Thread the alignment wire for the springs through the front and rear rows of spring tines, ensuring the wires pass between the drawbar arms and the base plate. Bend the ends of the wire to secure them. See Figure 8.

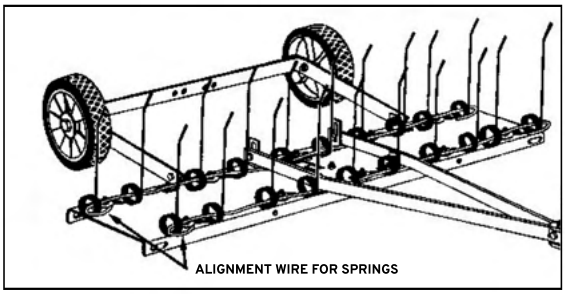


FIGURE 8

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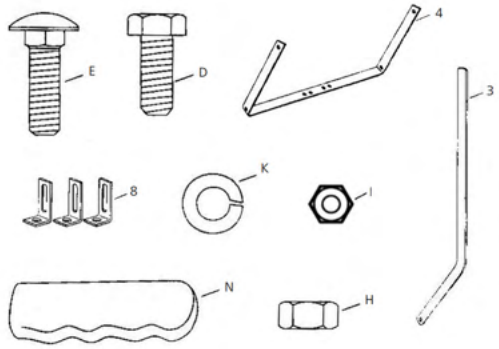
STEP 9:

Required Screws and Parts:

Part No.	Description	Qty.
8	Mounting Bracket for Drawbar Arm	1
4	Wheel Carrier	1
E	Carriage Bolt M8x25	2
K	Lock Washer M8	2
H	Hex Nut M8	2
3	Control Lever	1
D	Hex Bolt, M8x20	1
I	Hex Lock Nut, M8	1
N	Handle	1



a. Attach a drawbar arm mounting bracket to the wheel carrier using two M8x25 carriage bolts, M8 lock washers, and M8 hex nuts. Do not tighten yet. See Figure 9.

b. Pass the control lever through the base plate. Secure it to the previously installed drawbar arm mounting bracket with an M8x20 hex bolt and an M8 hex lock nut. Tighten securely. See Figure 9.

c. Position the drawbar arm mounting bracket so that there is side tension on the control lever when it is locked in the upright position. Tighten the nuts. See Figure 9.

d. Attach the handle to the end of the control lever. See Figure 9.

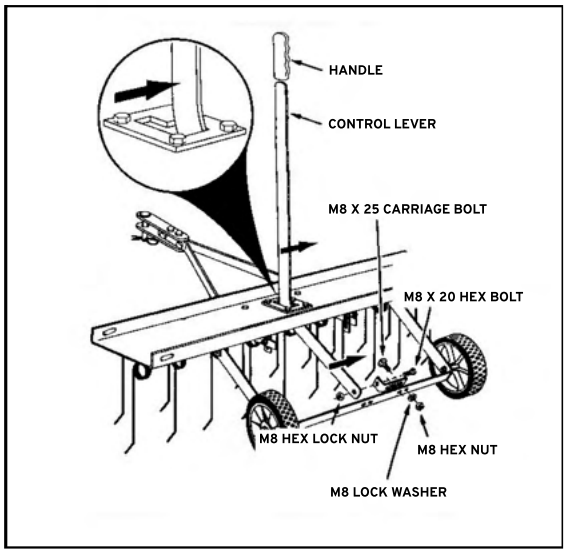


FIGURE 9

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OPERATION / ADJUSTMENT

Regular removal of moss is important for maintaining a healthy lawn. Moss consists of a layer of stems, clippings, roots, and leaves that have not decomposed. An excessive moss layer prevents air, water, and fertilizer from reaching the roots. The lawn aerator effectively removes this excessive moss layer from your lawn. Please read this manual carefully for correct adjustment and proper operation.

The correct adjustment of the base plate and the spring tines is important for proper performance. Follow these steps to correctly adjust the lawn aerator before operation:

1. Place the towing machine on a flat surface, such as a driveway or garage, and attach the spring tine lawn aerator to the vehicle's hitch. See Figure 10.

2. To adjust the base plate with the spring tines, lower the lawn aerator into the operating position using the control lever. Loosen the two hex nuts and carriage bolts that connect the rear ends of the drawbar arms to the mounting brackets. Adjust the base plate so that it is level and that both the front and rear spring tines make contact with the ground. Tighten the hex nuts again. See Figure 10.

3. Adjust the vehicle's forward speed until you achieve optimal aeration results.

4. For best results, aerate your lawn by driving back and forth in a crisscross pattern.

5. If the lawn aerator bounces during use, you should add extra weight to the base plate. Typically, extra weight is needed. Concrete blocks are recommended due to their profile, but any type of weight can be used as long as it can be secured to the base plate. Secure the weight with suitable fastening materials such as rubber bands or wire, which can be threaded through the holes on the side of the base plate. See Figure 11.

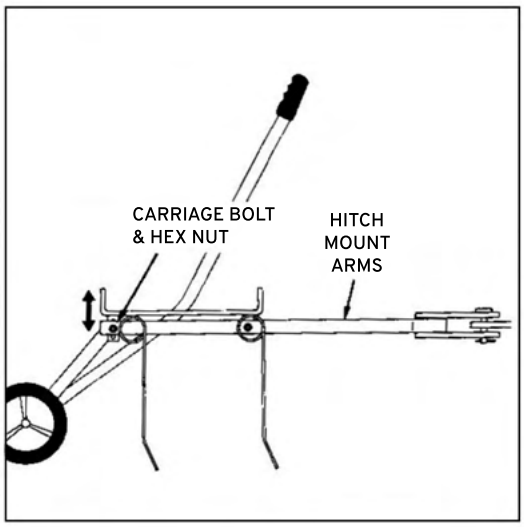

FIGURE 10

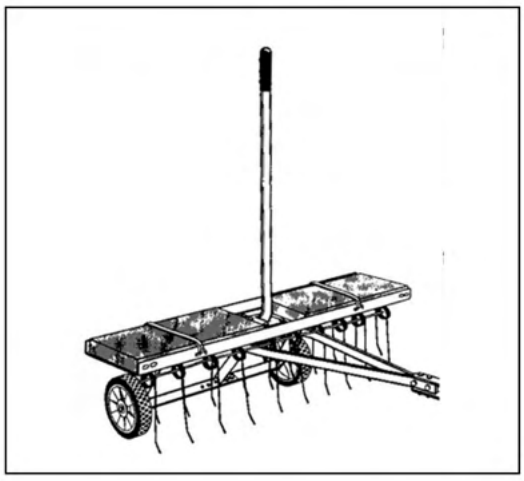
FIGURE 11

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MAINTENANCE

1. Before each use, check all nuts and bolts for tightness.

2. Grease the wheels as needed.

3. If rust forms on the base plate or spring tines, lightly sand it off and then coat the area with enamel paint.

4. Always store the equipment in a dry place and apply a light oil to exposed metal parts when not in use.

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