PLANT CRAFT®

TSW48 LAWN SWEEPER



User Manual

[Revision 3.0]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description, and packaging.

Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:



You WILL be KILLED or SERIOUSLY INJURED if you do not follow instructions.



You CAN be KILLED or SERIOUSLY INJURED if you do not follow instructions.



You CAN be INJURED if you do not follow instructions or equipment damage may occur.

It is vital that you read and understand this user manual before using the product, including safety warnings, and any assembly and operating instructions. Keep the manual for future reference.

Safety precautions and recommendations detailed here must be fully understood and followed to reduce the risk of injury, fire, explosion, electrical hazard, and/or property damage.

Safety information presented here is generic in nature – some advice may not be applicable to every product. The term "equipment" refers to the product, be it electrical mains powered, battery powered or combustion engine powered.

- **Before Use** - If you are not familiar with the safe operation/handling of the equipment or are in any way unsure of any aspect of suitability or correct use for your application, you should complete training conducted by a person or organization qualified in safe use and operation of this equipment, including fuel/electrical handling and safety.
- Do NOT operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases, or dust. The equipment may create sparks or heat that may ignite flammable substances.
- Keep clear of moving parts.
- Equipment may be a potential source of electric shock or injury if misused.
- Do NOT operate the equipment if it is damaged, malfunctioning or is in an excessively worn state.
- Do NOT allow others to use the equipment unless they have read this manual and are adequately trained.
- Keep packaging away from children - risk of suffocation! Operators must use the equipment correctly. When using the equipment, consider conditions and pay due care to persons and property.

General Work Area Safety

- Work areas should be clean and well it.
- Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area.
- If devices are provided for connecting dust extraction / collection facilities, ensure these are connected and used properly. Dust collection can reduce dust-related hazards.

General Personal Safety

- Wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from eye and ear injury, poisoning, burns, cutting and crush injuries. Protective equipment such as safety goggles, respirators, non-slip safety footwear, hard hat, hearing protection etc should be used for appropriate equipment / conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment.
- Stay alert and use common sense when operating the equipment. Do not over-reach. Always maintain secure footing and balance.
- Do not use the equipment if tired or under the influence of drugs, alcohol, or medication.
- This equipment is not intended for use by persons with reduced physical, sensory, or mental capabilities.

General Fuel Safety

- Petrol/fuel/gasoline is extremely flammable – keep clear of naked flames or other ignition sources.
- Do not spill fuel. If you spill fuel, wipe it off the equipment immediately – if fuel gets on your clothing, change clothing.
- Do NOT smoke near fuel or when refuelling.
- Always shut off the engine before refuelling.
- Do NOT refuel a hot engine.
- Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly.
- Always refuel in well ventilated areas.
- Always check for fuel leakage. If fuel leakage is found, do not start, or run the engine until all leaks are fixed.

General Carbon-Monoxide Safety

- Using a combustion engine indoors **CAN KILL IN MINUTES**. Engine exhaust contains carbon-monoxide – a poison you cannot smell or see.
- Use combustion engines OUTSIDE only, and far away from windows, doors, and vents.

General Equipment Use and Care

- Keep packaging away from children and pets, potential risk of suffocation or choking.
- The equipment is designed for domestic use only.
- Handle the equipment safely and carefully.
- Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage, or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorised service centre or technician before use.
- Prevent unintentional starting of the equipment - ensure equipment and power switches are in the OFF position before connecting or moving equipment. Do not carry equipment with hands or fingers touching any controls. Remove any tools or other items that are not a part of the equipment from it before starting or switching on.
- Do not force the equipment. Use the correct equipment for your application. Equipment will perform better and be safer when used within its design and usage parameters.
- Use the equipment and accessories etc. in accordance with these instructions, considering working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations.
- Always keep equipment components (engines, hoses, handles, controls, frames, housings, guards etc) and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment clean and, where applicable, properly lubricated.
- Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place or store the equipment near flammable materials, combustible gases, or liquids etc.
- The equipment is not weather-proof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or humid.
- Do not clean equipment with solvents, flammable liquids, or harsh abrasives.
- For specific equipment safety use and care, see Equipment Safety.

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General Electrical Safety

- Inspect electrical equipment, extension cords, power bars, and electrical fittings for damage or wear before each use. Repair or replace damaged equipment immediately.
- Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting or disconnecting equipment.
- When wiring electrically powered equipment, follow all electrical and safety codes.
- Always use a Residual Current Device (RCD) (GFCI) / Earth Leakage Circuit Breaker / Safety Switch when operating this item (electrical items only).
- High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.

General Electrical Safety

- Electrically grounded equipment must have an approved cord and plug and be connected to a grounded electrical outlet.
- Do NOT bypass the ON/OFF switch and operate equipment by connecting and disconnecting the electrical cord.
- Do NOT use equipment that has exposed wiring, damaged switches, covers or guards.
- Do NOT use electrical equipment in wet conditions or in damp locations.
- Do NOT use electrical cords to lift, move or carry equipment.
- Do NOT coil or knot electrical cords, and ensure electrical cords are not trip hazards.

General Service Information

- The equipment must be serviced or repaired at authorised service centres by qualified personnel only.
- Replacement parts must be original equipment manufacturer (OEM) to ensure equipment safety is maintained.
- Do NOT attempt any maintenance or repair work not described in this manual.
- After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before adjusting, changing accessories, or performing repair or maintenance.
- Do NOT adjust while the equipment is running.
- Perform service-related activities in suitable conditions, such as a workshop.
- Replace worn, damaged or missing warning/safety labels immediately.

Child Choking Hazard!



- **WARNING: CHOKING HAZARD - CHILDREN UNDER 8 YRS. CAN CHOKE OR SUFFOCATE ON SMALL PARTS. ADULT SUPERVISION REQUIRED.**
- Carefully inspect anything a baby or child could gain access to, including this product & packaging.
- Dangers include anything of a size that could become stuck or lodged in a baby or child's airway.
- Dangers include things like raw, hard fruit and vegetable pieces, large pieces of meat, bones or sausage skins, popcorn, nuts, hard lollies and corn chips, small magnets and batteries, coins, beads, marbles and small uninflated balloons, broken toys and smaller toys, buttons, keys, and coins. But there are also many more.
- Pay particular attention to accessories, nuts, bolts, screws, washers, caps, covers, loose parts, parts that could be removed or break off, pieces of packaging, staples, tape etc.
- In the case of any doubt, secure the item of concern in an appropriate manner, or completely remove the possibility of access by a baby or child.

Lawn Sweeper Safety

READ and UNDERSTAND this manual completely before using the Lawn Sweeper. Operator must read and understand all safety and warning information, operating instructions, maintenance, and storage instructions, before operating this equipment. Failure to properly operate and maintain the lawn sweeper could result in serious injury to the operator and/or bystanders.

- Do not use the sweeper to carry passengers and never sit or stand on the lawn sweeper.
- Do not allow children to play on, stand upon, or climb on the lawn sweeper.
- Only connect the hopper rope to the tow vehicle. Do not connect the hopper rope to anything else.
- Always keep body parts clear from and clothing detached from the sweeper and rope.
- Always inspect the sweeper before use to ensure that it is in good working condition.
- Replace or repair damaged or worn parts immediately.
- Always check and tighten hardware and assembled parts before operation.
- Avoid large holes and ditches when operating the equipment.
- Be careful when operating the sweeper on steep grades (hills).
- Always operate up and down the slope. Never operate across the face of the slope.
- Always operate at reduced speeds on rough terrain, along creeks, ditches and on hillsides.
- Do not operate close to creeks, ditches, or public highways.
- To avoid personal injury and/or equipment damage DO NOT EXCEED 5 MPH.
- Always use caution when loading and unloading the hopper.
- Only tow with recommended vehicles (Lawn/Garden Tractors and ATVs).
- Always refer to the vehicle owner's manual for proper towing.
- Sweeper is not designed to be used with zero-turn mowers.
- Always secure and lock sweeper to the vehicle hitch before operating.
- Always keep hands and feet clear from moving parts while operating the equipment.
- Always clear and keep work area clean when operating.
- Always wear safety gear, eye protection, gloves, and work boots when operating the sweeper.

WARNING: THE WARNINGS, CAUTIONS, AND INSTRUCTIONS OUTLINED IN THIS INSTRUCTION MANUAL CANNOT COVER ALL POSSIBLE CONDITIONS OR SITUATIONS THAT MAY OCCUR. IT MUST BE UNDERSTOOD BY THE OPERATOR THAT COMMON SENSE AND CAUTION ARE FACTORS WHICH CANNOT BE BUILT INTO THIS PRODUCT AND MUST BE SUPPLIED BY THE OPERATOR.

WARNING: THIS PRODUCT CAN EXPOSE YOU TO CHEMICALS INCLUDING LEAD AND LEAD COMPOUNDS WHICH ARE KNOWN TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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Safety Symbols

The product may have safety warning labels attached to it, explained below. Understand the symbols on your product and their meanings. If any stickers become unreadable, unattached etc., replace them.



Flammable Material Hazard
Flammable liquids, gases, or substances etc may present. Avoid ignition sources and open flames. Danger of fire.



Read User Manual
Read and fully understand product safety warnings, operation, procedures etc before using the product.



Use Hand Protection
Wear appropriate hand protection and take due care as the product or use of the product may present hand hazards.



Carbon-Monoxide Hazard
Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.



Electrocution / Electrical Shock Hazard
High voltage or high current electricity may be present or required by the product. Take due care when handling electrical products, cables, plugs and leads. Electrical shock can be fatal.



Toxic Fumes / Dust Hazard
Using the product or by-products from use may produce fumes, smoke or particles that could be harmful if inhaled. Wear appropriate breathing protection and have adequate ventilation.



Explosive Material Hazard
Combustible liquids, gases, or substances etc may be present. Avoid ignition sources and open flames. Danger of explosion.



Cutting / Amputation Hazard
The product may have blades, edges or mechanical devices that can cause severe cut injury to fingers, limbs etc. Take due care when handling and using the product.



Crush Hazard
The product may have blades, edges or mechanical devices that can cause severe crush injury to fingers, limbs etc. Take due care when handling and using the product.



Single Operator Only
The product must be operated by a single person only. More than one person operating the product may introduce additional hazards.



Use Face Protection
Wear appropriate full-face protection and take due care as the product or use of the product may present face and eye hazards.



Use Foot Protection
Wear appropriate foot protection and take due care as the product or use of the product may present foot hazards.



Use Eye / Ear / Head Protection
Wear appropriate eye and / or ear and / or head protection and take due care as the product or use of the product may present eye, hearing, and head hazards.



Running Hazard
Do not run on or near the product as doing so may present a fall hazard.



Diving Hazard
Do not dive into the product as doing so may present a neck / head injury hazard.



Adult Supervision Required
Always supervise children and other users of a product to prevent drowning or injury.



Skin Penetration / Puncture Hazard
The product may produce pressure, emit liquids or objects that can cause severe injury to fingers, limbs, blood etc. Take due care when handling and using the product.



Hot Surface Hazard
Be aware that the product may produce high temperatures and hot surfaces that can cause burn injuries.



Flying Debris Hazard
Be aware that the product or use of the product may present hazards produced by flying debris. Wear appropriate clothing and protective devices.



Moving Parts Hazard
Be aware that the product contains or uses mechanical devices that move or rotate. Always wait for moving parts to stop fully before handling the product, adjusting, maintenance etc.

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 **Carbon-Monoxide Hazard** Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.	 **Pull Hazard** Be aware that the product contains or uses mechanical devices that can pull in objects and can cause severe injury to fingers, limbs etc. Take due care when handling and using the product.	 **Slope / Fall Injury Hazard** Be aware that using the product on sloping surfaces or in slippery conditions may present additional dangers from falls and contact with blades, moving parts, hot surfaces etc.	 **"Slam Dunk" Warning** Do NOT attempt "slam dunk" manoeuvres as this may result in severe injury due to falling, product breakage or collapse etc.
 **Electrocution / Electrical Shock Hazard - Outdoor** High voltage or high current electricity may be present or required by the product. Do NOT use in rain, damp, or wet conditions. Electrical shock can be fatal.	 **Electrocution / Electrical Shock Hazard - Disconnect** High voltage or high current electricity may be present or required by the product. Always disconnect the product from the electrical supply before handling the product, adjusting, maintenance etc.	 **Power Line Electrocution Hazard** High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.	 **"Kick-Back" Hazard** High level of "kick-back" hazard that can cause the machine to suddenly rotate towards operator. Kick-back injury can be fatal.
 **Winch Operator Position Hazard** Do NOT stand between winch and load. Do NOT use winch to move people.	 **Winch Lift Hazard** Do NOT LIFT load vertically. Use machine to PULL only.	 **Cable Hazard** Ensure that load bearing cable is not kinked or knotted.	 **Winch Cable Hazard** Ensure that there is a minimum number of cable coils on winching mechanism.
 **Winch Hook Hazard** Carry hook to load – do NOT throw or run.	 **Flash / Blinding Hazard** Wear appropriate eye protection for welding. Direct exposure to weld arcs may cause permanent eye injury.	 **Laser Hazard** Laser may be in use – do NOT look directly at laser or allow others to.	 **Choking Hazard** Children under 8 yrs. Can choke or suffocate on small parts. Adult supervision required.

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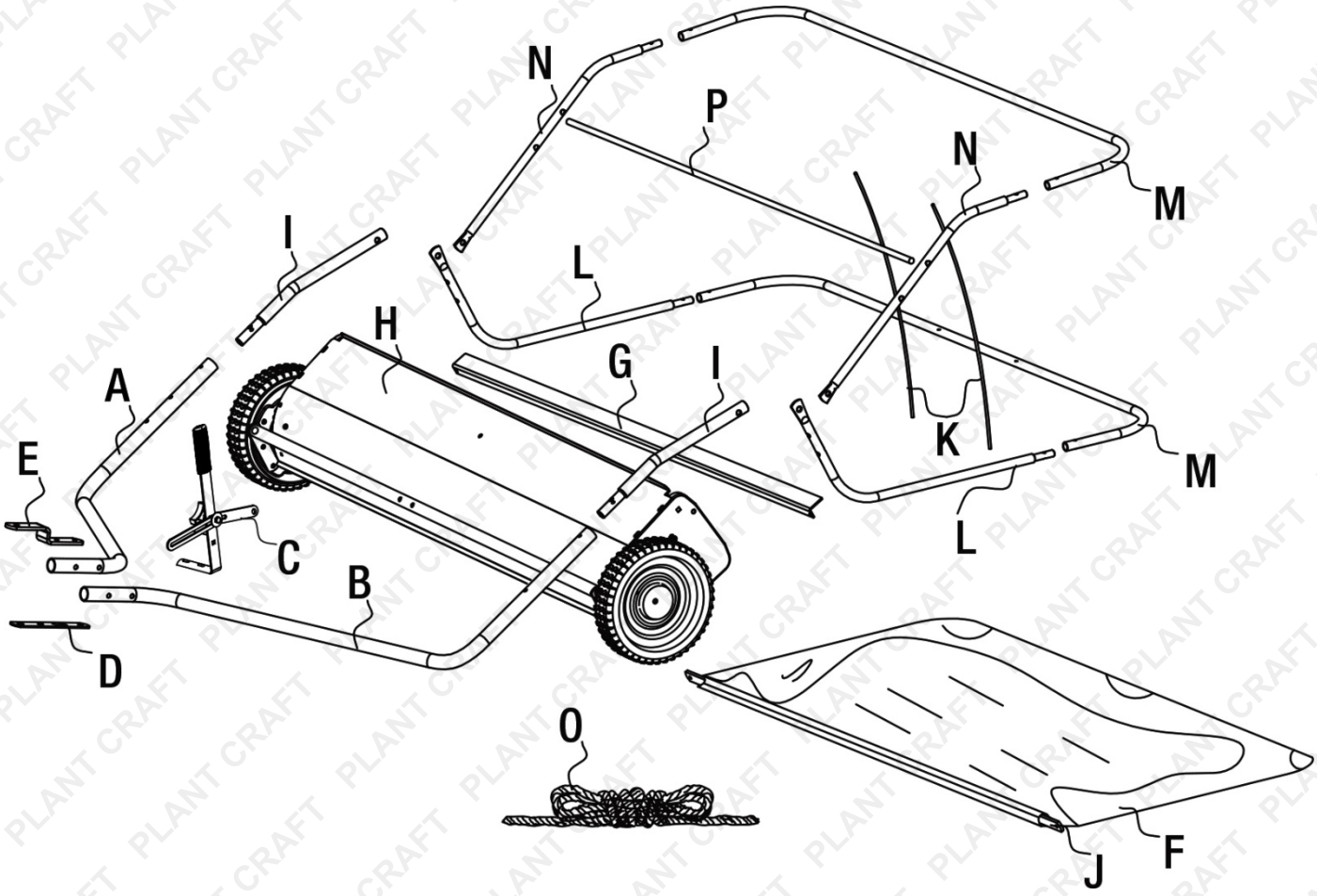
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Parts Identification

Package Contents

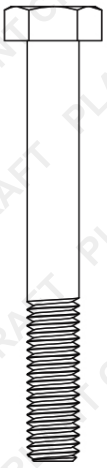


Part	Name	Qty.
A	Righthand Hitch Tube (RH)	1
B	Lefthand Hitch Tube (LH)	1
C	Handle Assembly	1
D	Straight Hitch Bracket	1
E	Hitch Bracket	1
F	Hopper Bag	1
G	Connecting Rod	1
H	Sweeper Housing Assembly	1

Part.	Name	Qty.
I	Bag Arm Tube	2
J	Bag Frame Strap	1
K	Hopper Support Rod	2
L	Lower Hopper Side Tube	2
M	Rear Hopper Tube	2
N	Upper Hopper Side Tube	2
O	Rope	1
P	Front Support Rod	1

Hardware Contents

AA



M8x75 Hex Bolt
Qty. 2

BB



M8x55 Hex Bolt
Qty. 2

CC



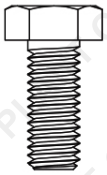
M8x40 Hex Bolt
Qty. 2

DD



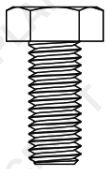
M6x45 Hex Bolt
Qty. 4

EE



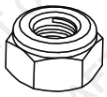
M8x20 Hex Bolt
Qty. 1

FF



M8x16 Hex Bolt
Qty. 1

GG



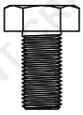
M8 Nylon Lock Nut
Qty. 8

HH



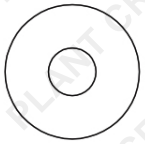
M6 Nylon Lock Nut
Qty. 6

II



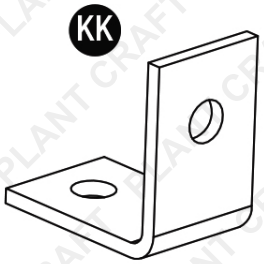
M6x12 Hex Bolt
Qty. 2

JJ



Ø8 Large Flat Washer
Qty. 1

KK



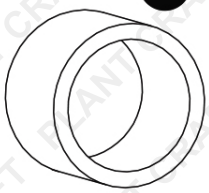
Angle Bracket
Qty. 1

LL



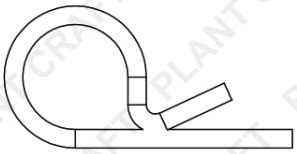
Spacer Bushing
Qty. 1

MM



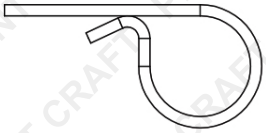
Hitch Spacer
Qty. 2

NN



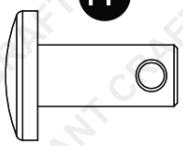
Ø3 R Pin
Qty. 5

OO



Ø2 R Pin
Qty. 4

PP



Ø9.5x25 Clevis Pin
Qty. 2

QQ



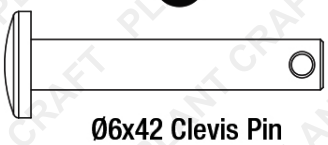
Ø6x37 Clevis Pin
Qty. 2

SS



Hitch Pin
Qty. 1

RR



Ø6x42 Clevis Pin
Qty. 2

TT



Plastic Plug
Qty. 4

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Assembly

Before beginning assembly of product, make sure all parts are present. Compare parts with package contents list and hardware contents list. If any part is missing or damaged, do not attempt to assemble the product.

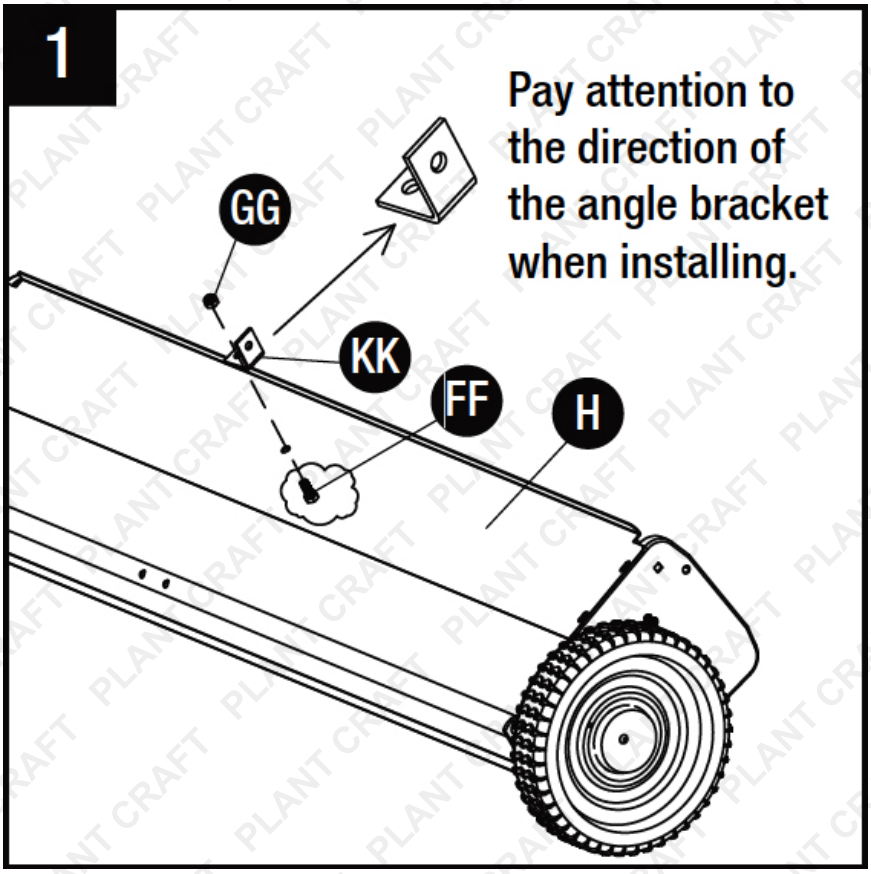
Tools Required for Assembly (not included): 10mm, 13mm and 14mm Wrenches.

Step 1: Mount Angle Bracket

1. Remove the four wood splints from brush. These can be loosened by hand or with a 10mm socket or wrench.
2. Attach the Angle Bracket (**KK**) to the sweeper housing (**H**) by using the M8x16 Hex Bolt (**FF**) and the M8 Nylon Lock Nut (**GG**). Tighten securely, using 13mm and 14mm wrench.

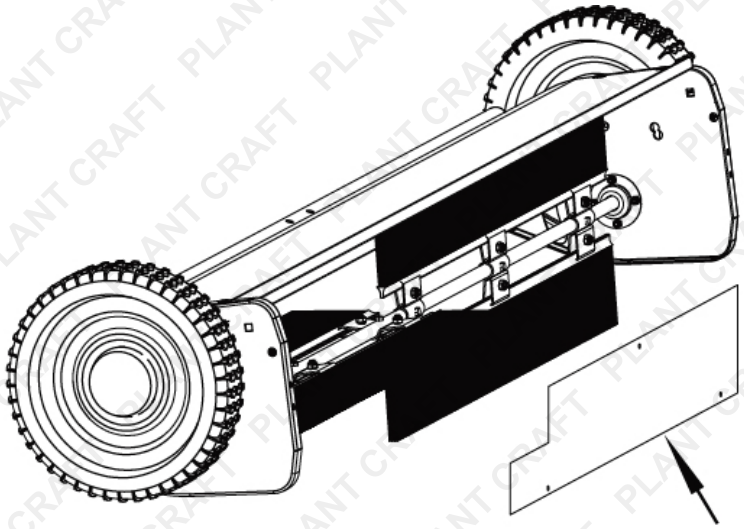
Hardware Used:

KK	Angle Bracket		x 1
FF	M8x16 Hex Bolt		x 1
GG	M8 Nylon Lock Nut		x 1



CAUTION: Before tightening, make sure the angle bracket is aligned straight with the sweeper housing, as shown in the diagram, with the raised end positioned on the opposite side of the main logo.

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Four wood splints are used to protect the brushes during shipping.

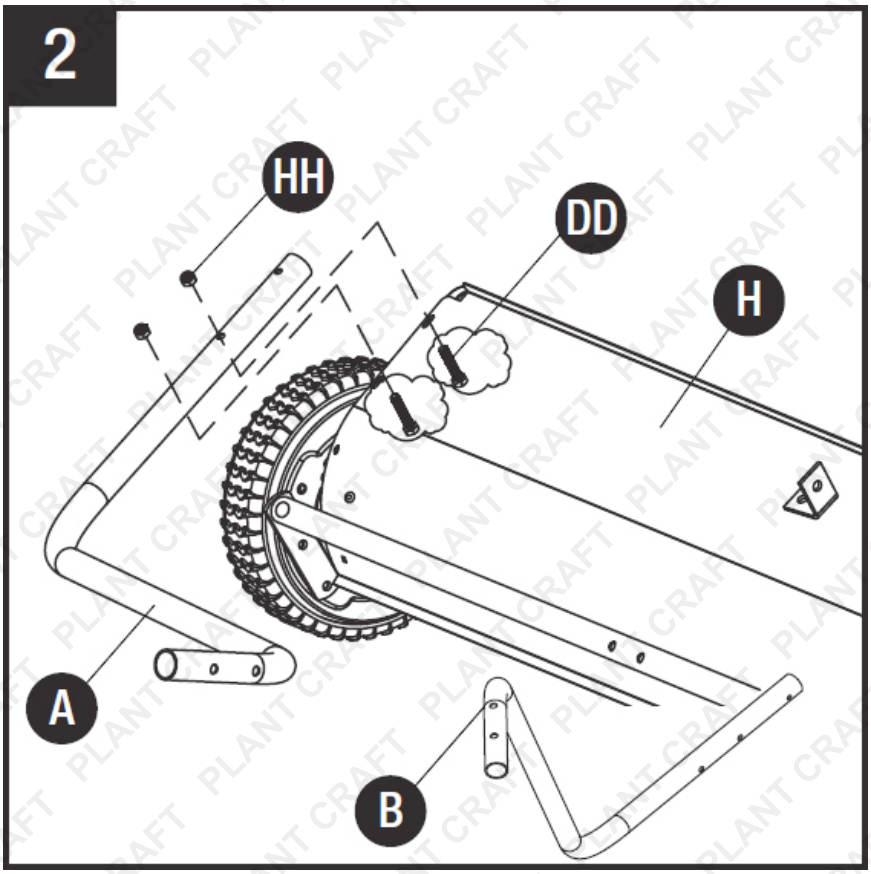
Step 2: Attach Hitch Tubes

1. Remove the two black hitch tubes (**A**) & (**B**) from the box.
2. Place righthand hitch tube (**A**) on the right side of the main housing (**H**) with the angled end facing inward.
3. Place a M6x45 Hex Bolt (**DD**) through the middle hole in righthand hitch tube (**A**) and the top hole in the main housing (**H**).
4. Fasten the bolt with a M6 Nylon Lock Nut (**HH**).
5. Place another M6x45 Hex Bolt (**DD**) in the hole below the bolt you just secured.
6. Fasten with another M6 Nylon Lock Nut (**HH**).
7. Repeat these steps for lefthand hitch tube (**B**) on the other side.
8. Tighten securely, using 10mm wrench.

Hardware Used:

DD	M6x45 Hex Bolt		x 4
HH	M6 Nylon Lock Nut		x 4

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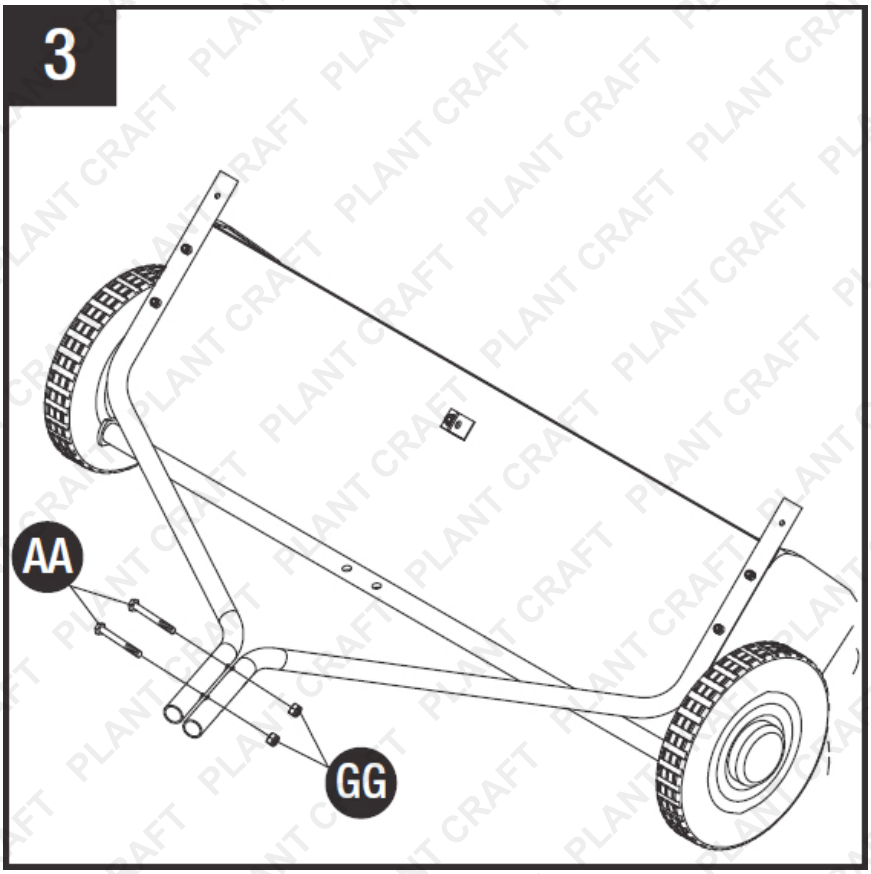
CAUTION: Right Hand (RH) and Left Hand (LH) refer to the drivers' orientation when operating the vehicle.

Step 3: Secure Hitch Tubes Together

1. After attaching the hitch tubes. Secure the two ends together with two M8x75 Hex Bolts (**AA**) and two M8 Nylon Lock Nuts (**GG**).
2. Tighten loosely for now, using 13mm and 14mm wrench.

Hardware Used:

AA	M8x75 Hex Bolt		x 2
GG	M8 Nylon Lock Nut		x 2

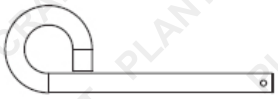


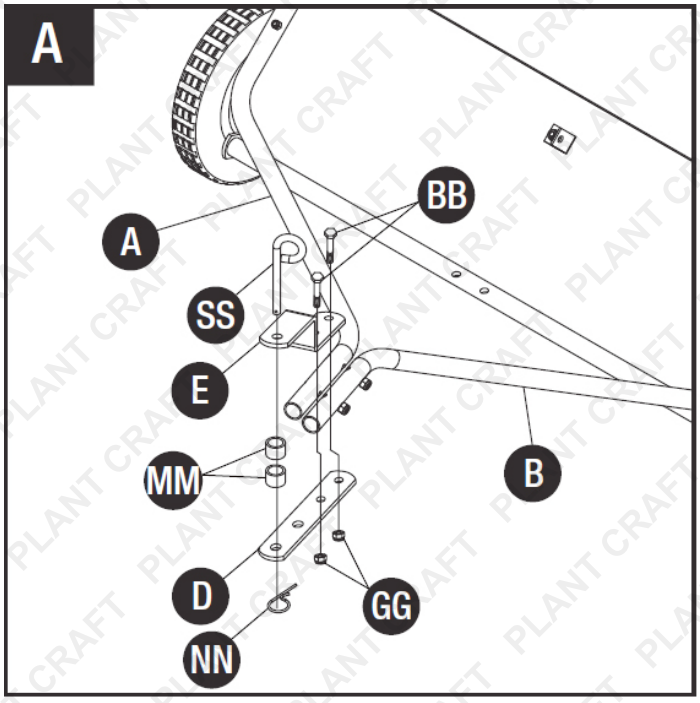
Step 4: Mount Hitch Assembly to Hitch Tubes

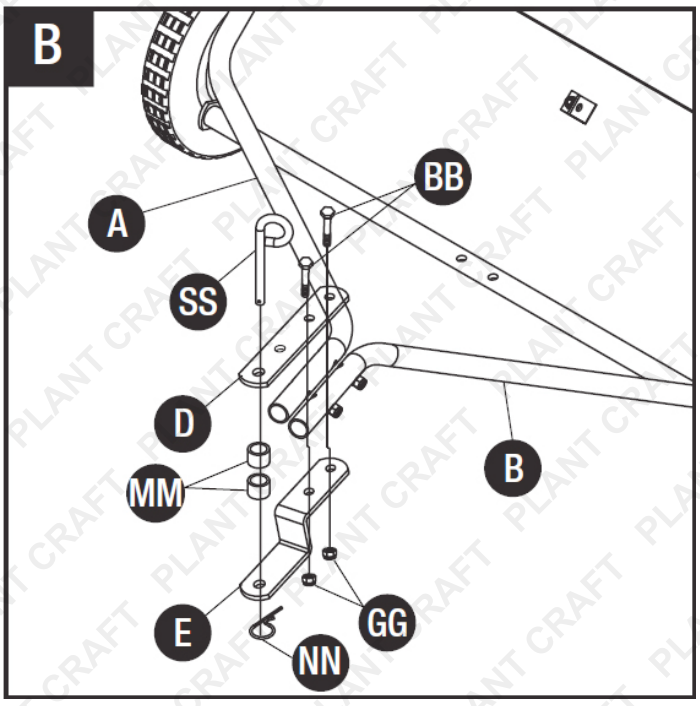
CAUTION: Check to see how high the hitch is on your tractor or ATV before performing this step. Follow diagram A if your hitch is between 8'' and 10'' off the ground. Follow diagram B if your hitch is 11'' or higher off the ground.

1. Slide the Hitch Pin (SS**)** through the far slot in the straight hitch bracket (**D**).
2. Follow by sliding two Hitch Spacers (MM) over the same Hitch Pin (**SS**).
3. Slide the side of the angle bracket with one hole over the same Hitch Pin (**SS**).
4. Secure these components on the Hitch Pin (**SS**) with the Ø3 R Pin (**NN**).
5. Place the assembled hitch brackets over the end of the hitch tubes (**A/B**) in the orientation needed for your hitch height.
6. Slide two M8x55 Hex Bolts (**BB**) through the two holes in the top of the bracket. Pass the bolt closest to the main housing through the gap between the two bolts in the hitch tubes.
7. Fasten these bolts with two M8 Nylon Lock Nuts (**GG**) using 13 mm and 14 mm wrench.

Hardware Used:

BB	M8x55 Hex Bolt		x 2
GG	M8 Nylon Lock Nut		x 2
MM	Hitch Spacer		x 2
NN	Ø3 R Pin		x 1
SS	Hitch Pin		x 1





Step 5: Tighten all nuts and bolts from Steps 2 through 4.

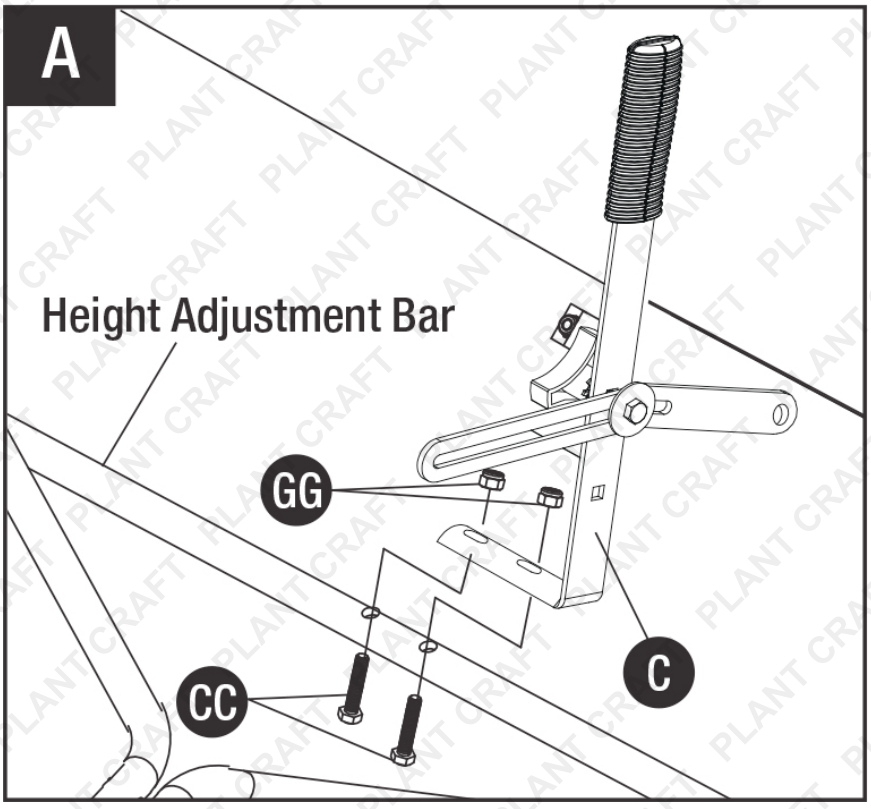
Step 6: Attach Height Adjustment Handle

1. Place the height adjustment handle assembly (**C**) over the two holes on the height adjustment bar.
2. Make sure the handle assembly is oriented on the right side of the machine.
3. Pass two M8x40 Hex Bolts (**CC**) through the bottom of the height adjustment bar and the two holes on the base of the handle assembly.
4. Fasten these bolts with two M8 Nylon Lock Nuts (**GG**) using 13 mm and 14 mm wrench.

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Hardware Used:

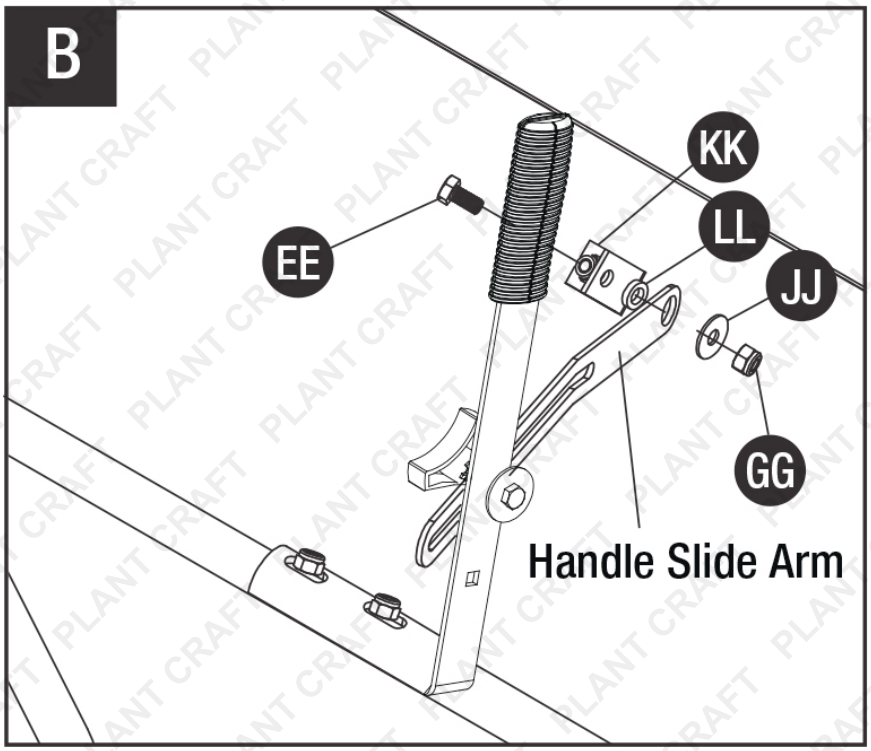
CC	M8x40 Hex Bolt		x 2
GG	M8 Nylon Lock Nut		x 2



5. Align the hole at the end of the handle slide arm on the right side of the Angle Bracket (**KK**) earlier attached to the main housing.
6. Place a Spacer Bushing (**LL**) between the Angle Bracket (**KK**) and the end of the handle slide arm.
7. Slide a M8x20 Hex Bolt (**EE**) through the Angle Bracket (**KK**), Spacer Bushing (**LL**) and handle slide arm.
8. Place a Washer (**JJ**) over the end of this bolt and fasten with a M8 Nylon Lock Nut (**GG**) using 13mm and 14mm wrench.
9. Ensure everything is aligned correctly and test the movement on the height adjustment handle.

Hardware Used:

EE	M8x20 Hex Bolt		x 1
GG	M8 Nylon Lock Nut		x 1
JJ	Ø8 Large Flat Washer		x 1
LL	Spacer Bushing		x 1

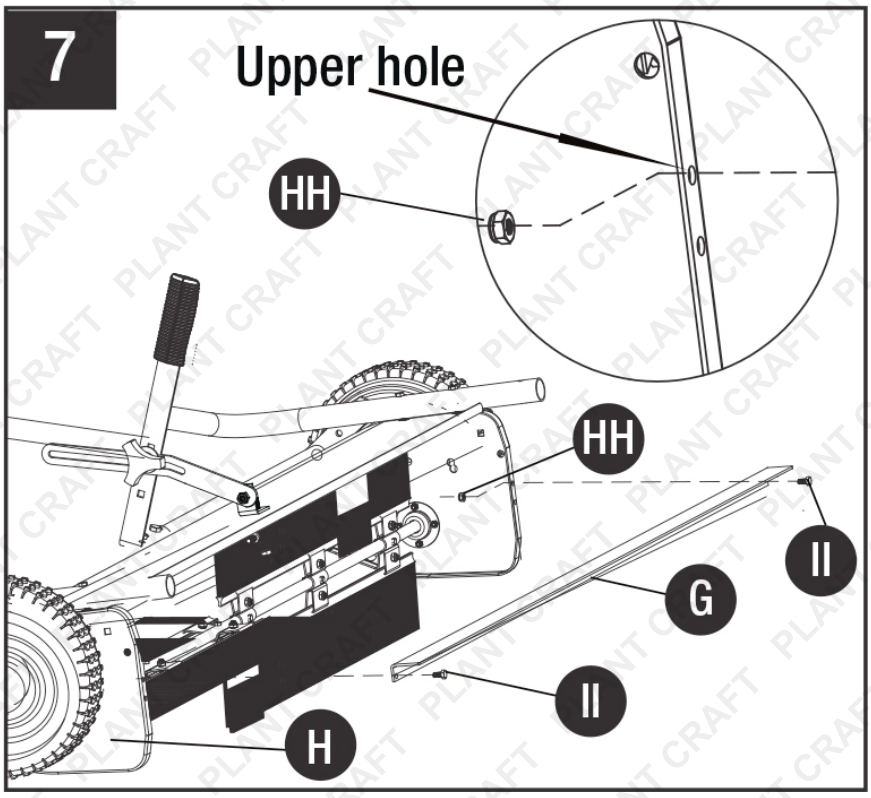


7 Mount the Connecting Rod to the Sweeper Housing

1. Remove the right-angle connecting rod (**G**) from the box.
2. Align it on the back of the unit with a flat end pressed against the unit and a flat end on top extending in your direction.
3. Slide a M6x12 Hex Bolt (**II**) through the hole in the connecting rod and into the top hole in the back of the main housing (**H**).
4. Loosely fasten with a M6 Nylon Lock Nut (**HH**) using two 10mm wrenches.
5. Repeat on the other side of the unit and tighten the nuts.

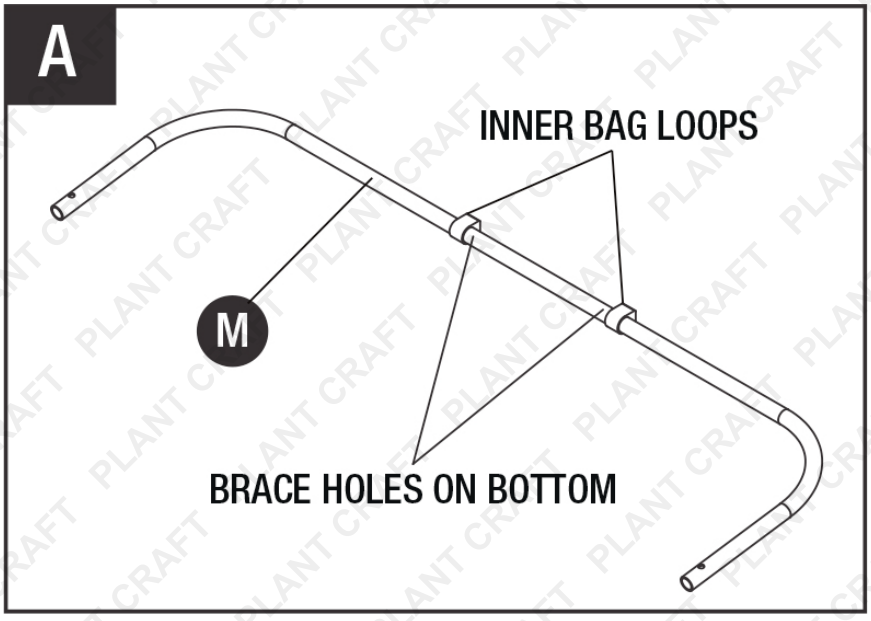
Hardware Used:

II	M6x12 Hex Bolt		x 2
HH	M6 Nylon Lock Nut		x 2



Step 8: Assemble Hopper Bag

1. Unroll the hopper bag on the ground with the nylon fabric facing up and the heavy-duty nylon floor facing down.
2. Remove one of the gold double-ended rear hopper tubes (**M**) from the box.
3. Place the rear hopper tube (**M**) in the back of the hopper fabric with the holes in the centre of the bar facing up.

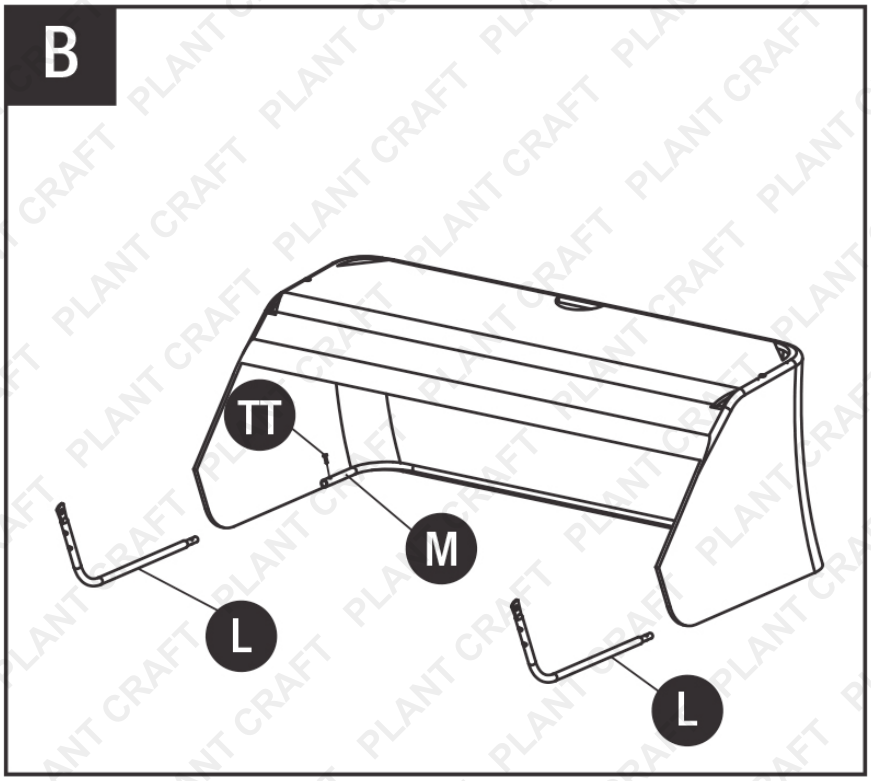


4. Remove the gold lower hopper side tubes (**L**) from the box. These will be the two L shaped bars with two holes near one end.
5. Place the male end of each tube into the female end of the lower hopper side tube (**M**) previously placed in the hopper.

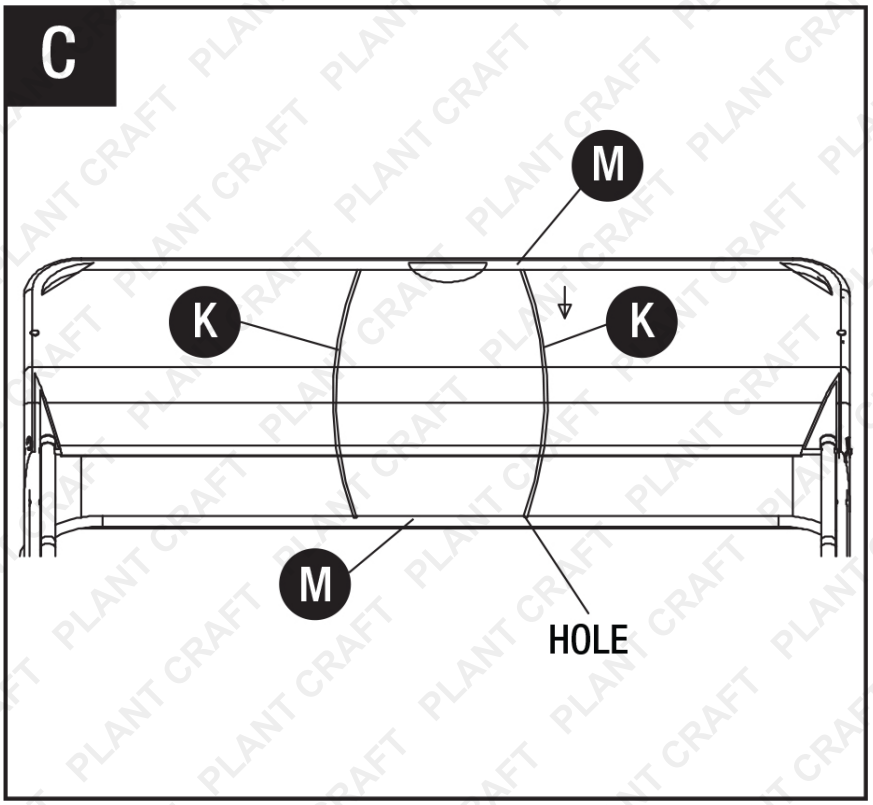
6. Make sure the smaller half of the L shape is facing upwards as shown in the diagram.
7. Align the holes on both tube joins and secure by pressing in a Plastic Plug (**TT**) into the openings on either side.

Hardware Used:

TT Plastic Plug  x 2



8. Remove the second gold double ended rear hopper tube (**M**) and the two support rods (**K**) from the box.
9. Place the two support rods (**K**) in the two holes in the centre of the rear hopper tube (**M**) already seated in the hopper.
10. Next take the other rear hopper tube (**M**) and position it to match the lower hopper side tube.
11. Make sure the holes in the centre of the bar are facing down.
12. Step into the bag with the bar. Slide the bar into the top part of the fabric hopper and insert the two support rods (**K**) into the holes of the upper rear hopper tube (**M**).

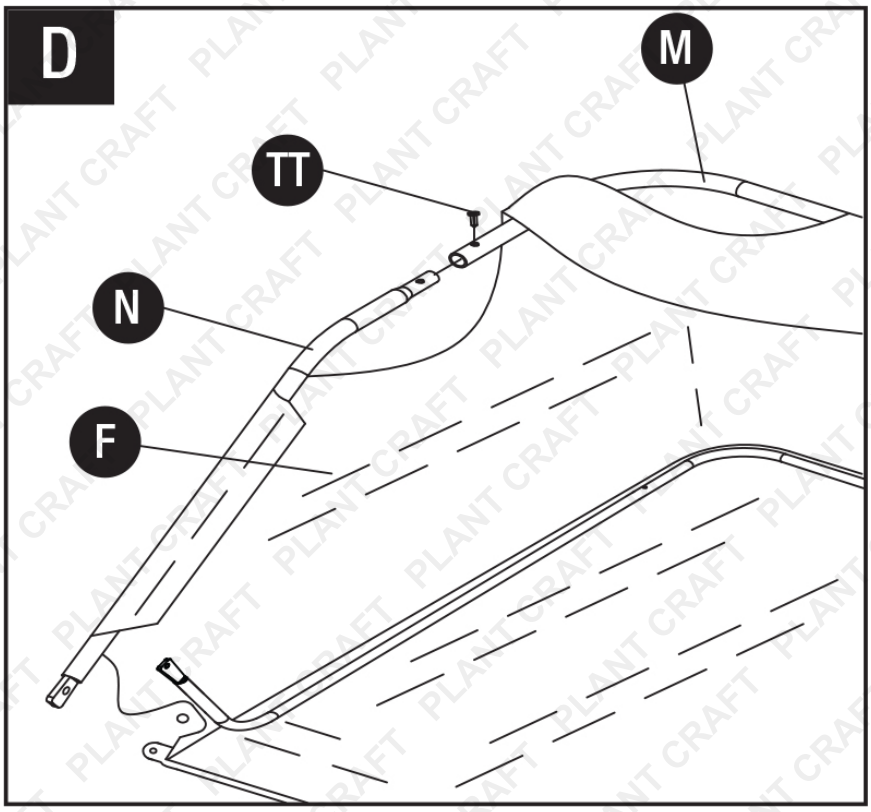


CAUTION: Do not over-stress (bend) the support rods while installing. Over stressing causes the rods to bend and lose supporting tension.

13. Remove the remaining gold upper hopper side tubes (**N**) from the box.
14. Slide these through the fabric sleeves on each side with the smaller end of the L shape facing the rear of the bag.
15. Place the male end of each tube into the female end of the upper rear hopper tube (**M**) previously placed in the hopper.
16. Make sure the larger half of the L shape is facing downwards as shown in the diagram.
17. Align the holes on both tube joins and secure by pressing in a Plastic Plug (**TT**) into the openings on either side.

Hardware Used:

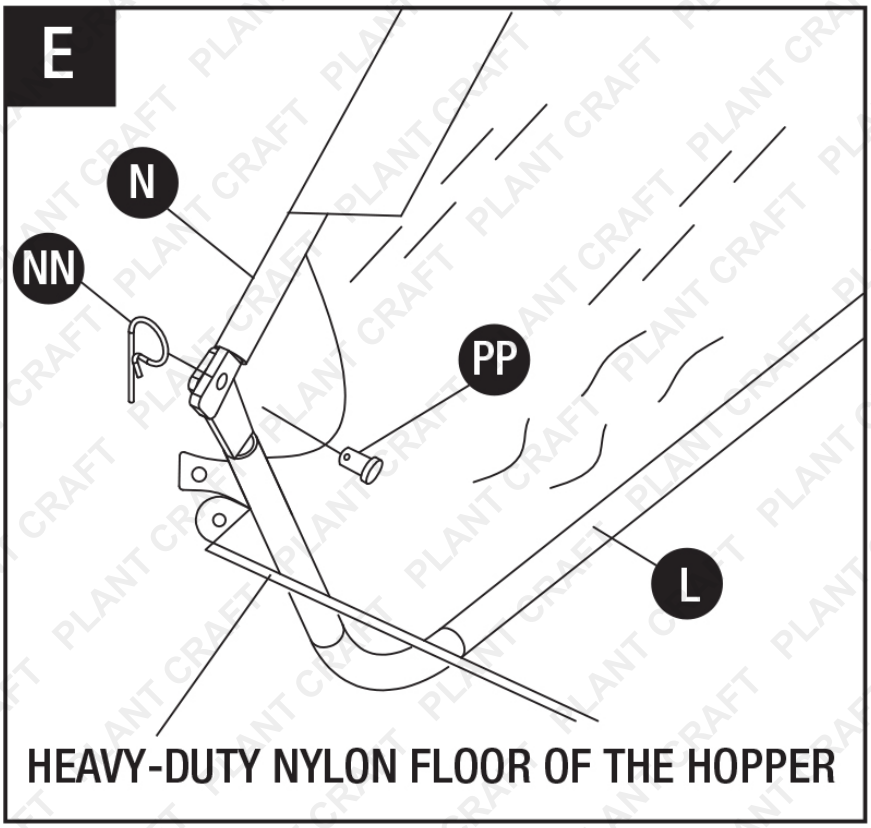
TT Plastic Plug  x 2



18. Then align the two ends of the upper and lower hopper side tubes and insert Ø9.5x25 Clevis Pin (**PP**).
19. Secure the Ø9.5x25 Clevis Pin (**PP**) on the other end with an Ø3 R Pin (**NN**).
20. Repeat on the other side.

Hardware Used:

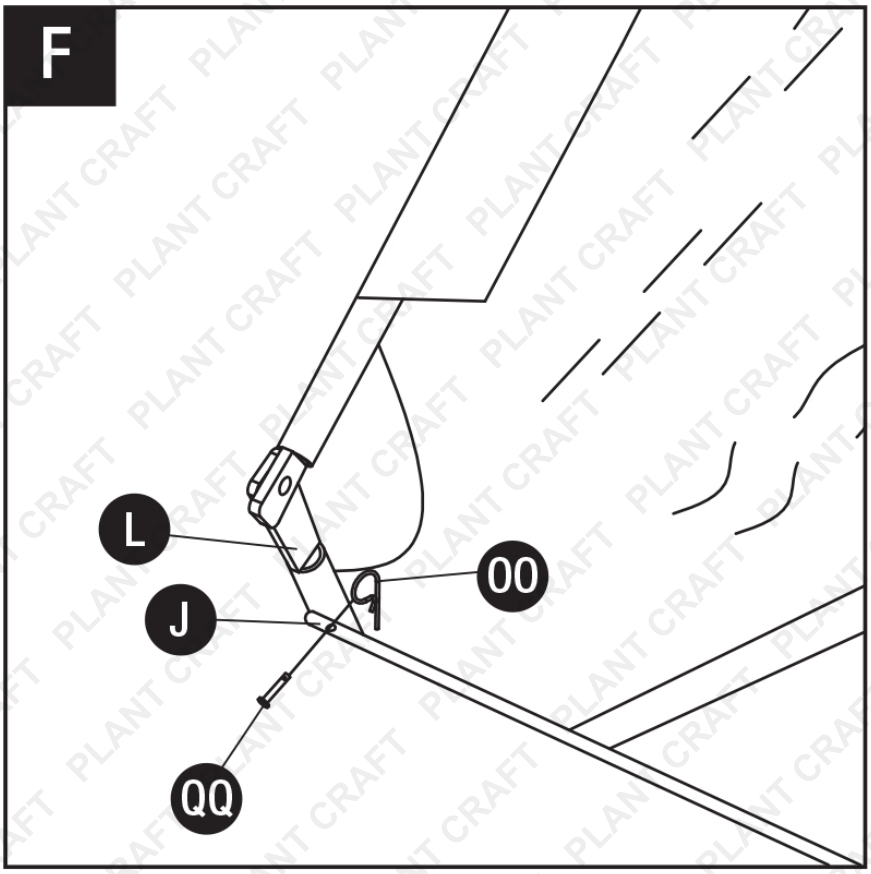
NN	Ø3 R Pin		x 2
PP	Ø9.5x25 Clevis Pin		x 2



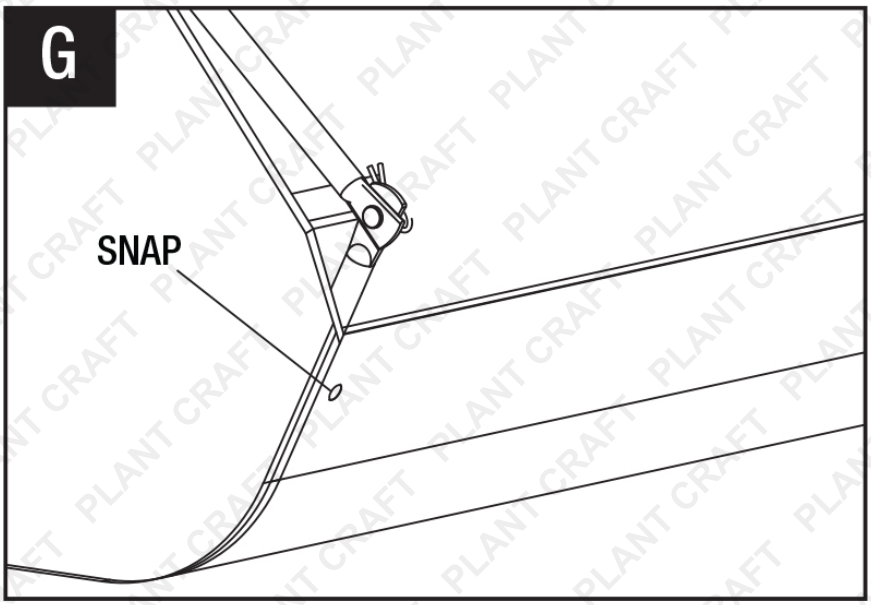
21. Remove the bag frame strap (**J**) from the box.
22. Locate the stitched fabric sleeve at the base of the hopper in at the front of the canvas.
23. Insert the bag frame strap (**J**) into the sleeve.
24. Pull the base of the hopper fabric up towards the joint of the upper and lower hopper side tubes and insert Ø6x37 Clevis Pin (**QQ**).
25. Secure the Ø6x37 Clevis Pin (**QQ**) on the other end with an Ø2 R Pin (**OO**).
26. Repeat on the other side.

Hardware Used:

OO	Ø2 R Pin		x 2
QQ	Ø6x37 Clevis Pin		x 2



27. Locate the snap buttons on the nylon fabric. Snap them into the rivets on the heavy-duty nylon floor of the hopper.

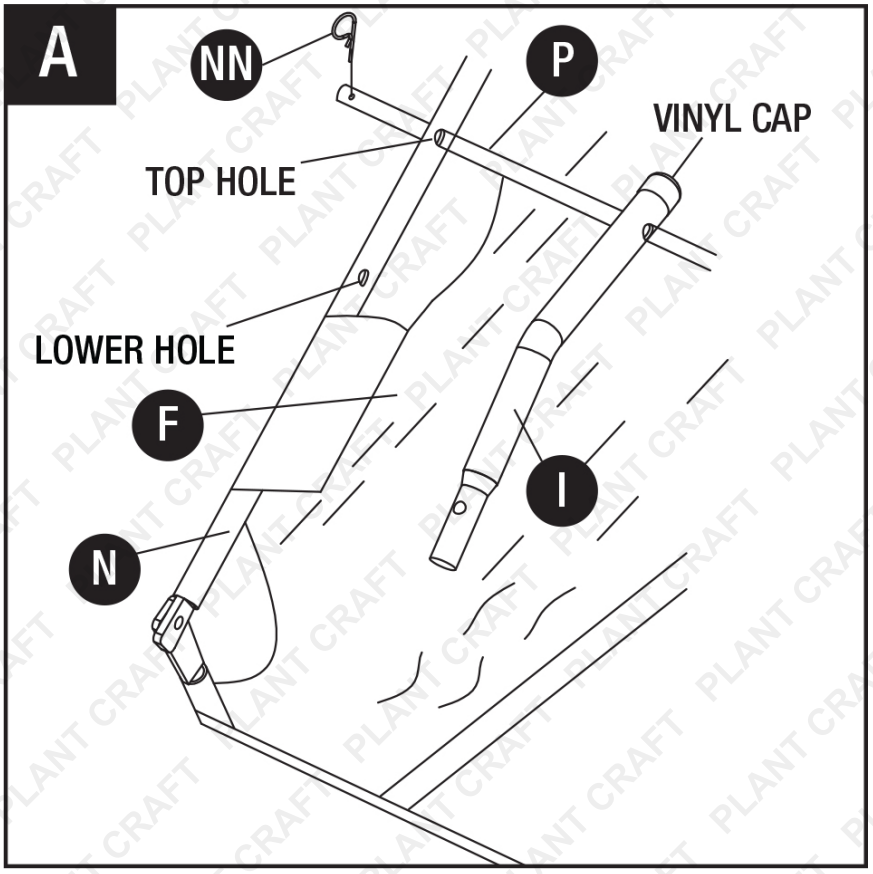


Step 9: Attach Hopper Bag to Sweeper

1. There are two holes in the bar of each of the upper hopper side tubes (**N**). Locate the top hole and pierce the nylon fabric at the location of the top hole. **Note: some models have rivets in the fabric and do not require piercing the fabric.**
2. Insert the front support rod (**P**) through the top hole in each of the upper hopper side tubes and assemble bag arm tube (**I**). Secure with Ø3 R pin (**NN**). **Note the orientation of the bag arm tube: vinyl cap upward, male end facing down and the arm tube (I) on the inside of the hopper bag (F).**

Hardware Used:

NN Ø3 R Pin  x 2



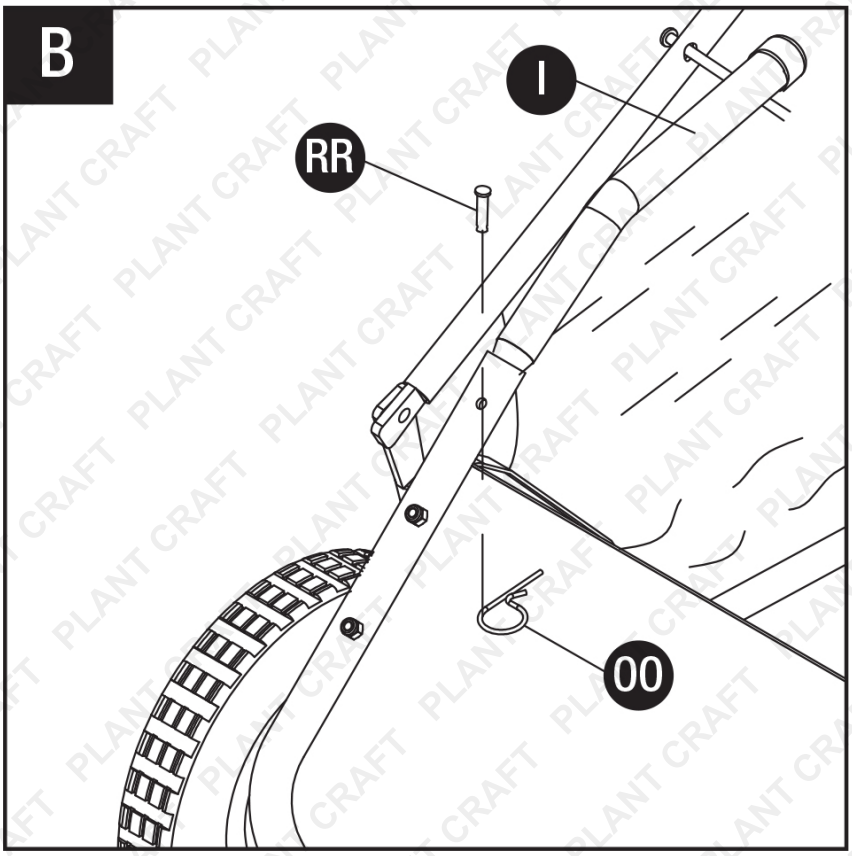
3. Insert the male ends of the bag arm tubes (**I**) into the hitch tubes at the back of the sweeper housing assembly (away from the hitch). Secure using Ø6X42 clevis pins (**RR**) and Ø2 R pin (**OO**).

Hardware Used:

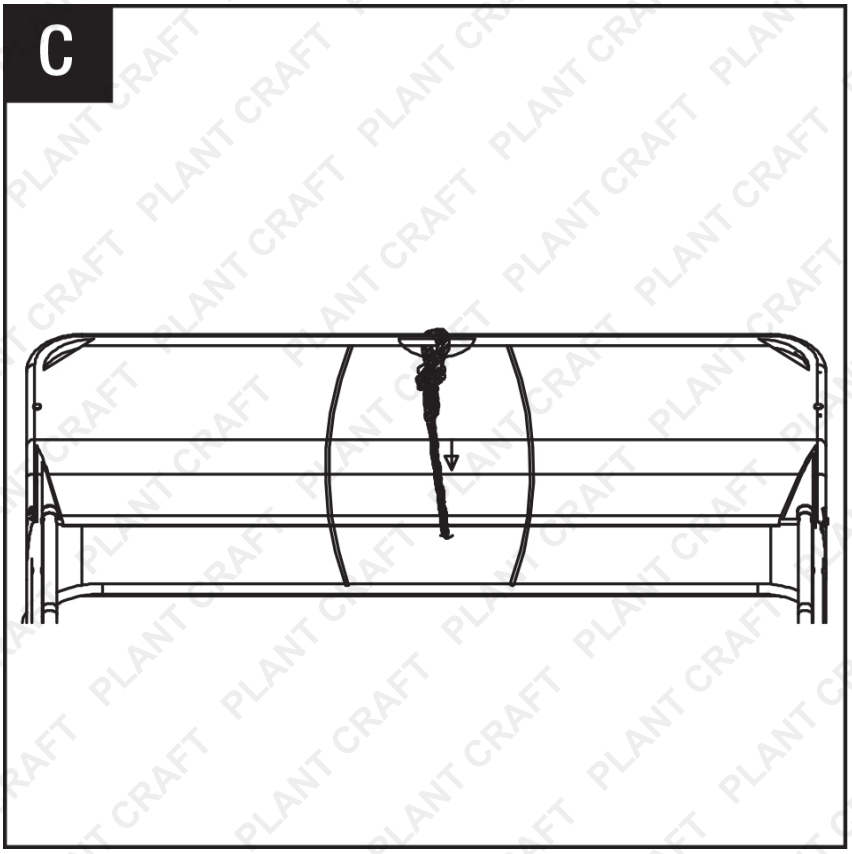
OO Ø2 R Pin  x 2

RR Ø6x42 Clevis Pin  x 2

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4. Tie the rope to the upper hopper tube at the centre of the bag frame.



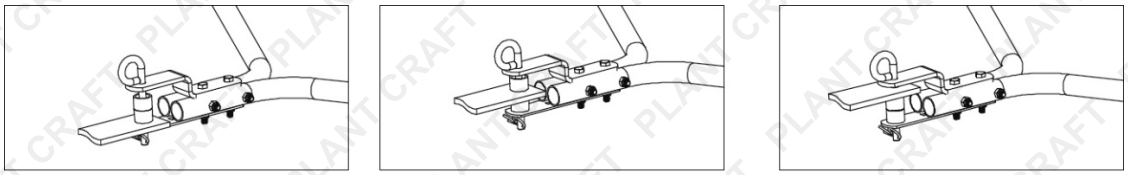
5. Check to see that brush protection boards are removed from inside of sweeper housing assembly.
6. Check to see that all bolts are tightened adequately, and all pins are mounted securely. If all the components are securely in place, the sweeper is completely assembled and ready for use.

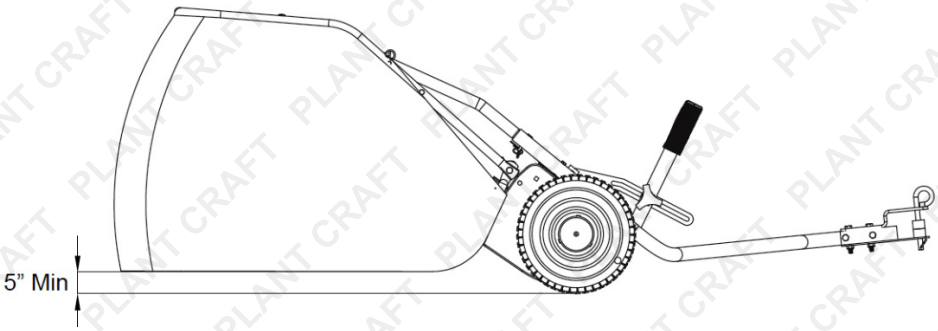
Operation

WARNING: Before operating or using the sweeper, review the instructions below and safety information. Failure to follow these instructions may result in property damage or injury to the operator or bystanders.

Attach the Sweeper to the Towing Vehicle

On a level surface, line up the towing vehicle with sweeper. As shown in the diagram, use the hitch pin and spacers to adjust the height of the tow hitch. Once adjusted, insert the Ø3 R Pin to secure the hitch pin. For best results, the hopper should be level with the ground at a minimum clearance of 5”. Secure the rope to the tow vehicle.





Adjust the Height of the Brushes

Use the height adjustment handle to set the height of the brushes. For optimal results, the brush height should be ½” below the tips of the grass. For sweeping other materials, you may need to adjust the height of the brushes.

Towing the Sweeper

Your sweeper is designed to work at speeds of 5 mph and lower. You may damage the device or experience sub-optimal results if exceeding 5 mph. Your sweeper will work best on flat, smooth surfaces. If operating on a slope, always tow the sweeper up or down the surface of the hill, not sideways along the slope.

Dumping the Hopper

When dumping the hopper, use the rope to pull the basket forward. Dump the hopper regularly for best performance.

CAUTION: Always keep body parts clear from and clothing detached from the sweeper and rope. Keep sweeper away from fire and excessive heat that will cause damage to the brushes and bag.

Do not drag the unit in a manner that makes the bag make contact with the ground, as per the illustration above there should always be a 5-inch minimum gap between the ground and the bag.

Maintenance

WARNING: Improper maintenance and storage of the sweeper may void your warranty.

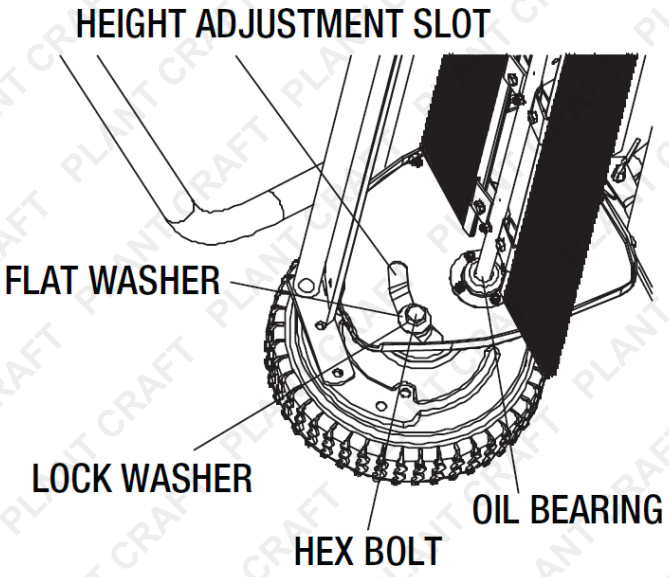
ATTENTION: Surface corrosion will occur on metal surfaces over time and the rate of oxidation depends on factors such as proximity to the ocean and humidity or condensation of water vapour on metal surfaces. To mitigate this, WD40 can be used to remove surface corrosion then, when applied periodically, it will prevent rust from forming.

General Maintenance

- After each use clean material out of hopper.
- Rinse/dry inside and outside of the sweeper after each use.
- Periodically check all fasteners for tightness and replace any damaged fasteners.
- Check brushes for debris and keep brushes and brush shaft clean for optimal performance.
- Twice a year apply a few drops of light multipurpose oil to the brush shaft bearings.
- Annually clean and lightly lubricate all moving parts.
- Every two years remove and clean gears and apply an even coat of light synthetic grease.
- Use a glossy enamel spray paint to touch up scratched or worn painted metal surfaces.
- Never exceed the hopper load capacity rating, it will damage the bag.
- Regularly grease axle and wheel bearing area (and apply when needed).

Lubrication

The bearings in the sweeper have been pre-lubricated at the factory; however, it is recommended that a few drops of light multipurpose oil should be added to the brush shaft bearings twice a year. Also, every two years the wheels should be removed to clean the gears. After cleaning the gears, apply an even coat of light synthetic grease.

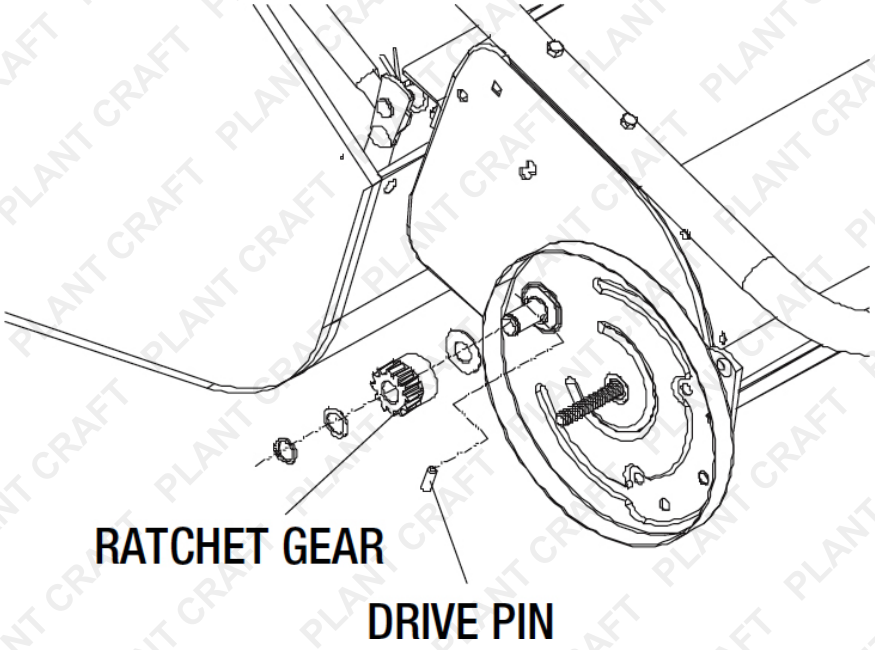


CAUTION: To remove wheel, use a screwdriver to pop off hub cap, remove the lock nut and washer.

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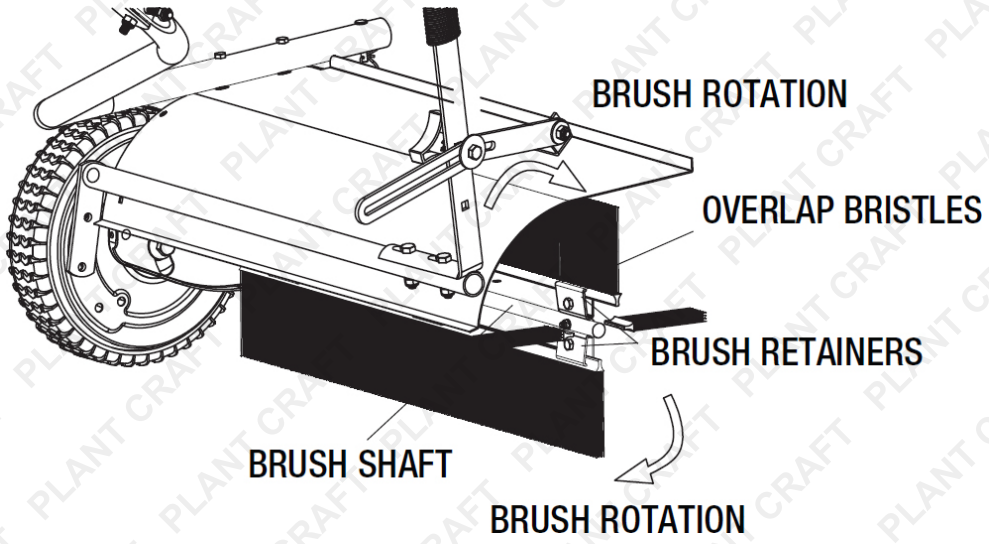
Wheel Gears/Pawl Service

DO NOT remove both wheels at the same time. Remove one wheel at a time to prevent mixing parts or using the wrong parts as the left and right wheels and parts are different. When removing gears, carefully note the position of all washers and other parts.



Brush Replacement

1. Remove the hopper bag from lawn sweeper.
2. Only replace one brush at a time.
3. Tip the sweeper forward on housing. Do not remove the hex bolts from double brush retainers.
4. Loosen hex bolts and hex lock nuts from single brush retainers. Slide brush out of retainers, making note of over-lap bristles position.
5. Install new brush, make sure the over-lap bristles are in the same position as before replacement.



CAUTION: If a part needs replacement, only use parts that meet the manufacturer's specifications. Replacement parts that do not meet specifications may result in a safety hazard and/or poor operation.

Storage

CAUTION: Empty hopper bag before storage as full or partially full bags may pop/explode.

- Be sure to completely empty, clean, and dry the sweeper hopper bag before storage.
- Failure to properly clean the sweeper and hopper may cause deterioration such as rust or mould.
- Lightly lubricate all sweeper surfaces and moving parts to protect components and prevent rust.
- Store indoors or in a protected area during severe weather and winter months.
- Storing the sweeper:
  - Pull the two bag arm tubes (**I**) out of hitch tubes (**A** & **B**).
  - Remove the two hopper support rods (**K**).
  - Don't allow the brushes to contact the ground during storage to prevent damage.

Specifications

Type	Tow behind
Clearing Width	48” / 122cm
Load Capacity	415L
Tyres	10 ½” solid
Connection Type	Universal hitch pin
Max Speed	8 km/h

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Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging, and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear, or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear, or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business, or employee, or financially affect the user, business, or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement, or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
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