

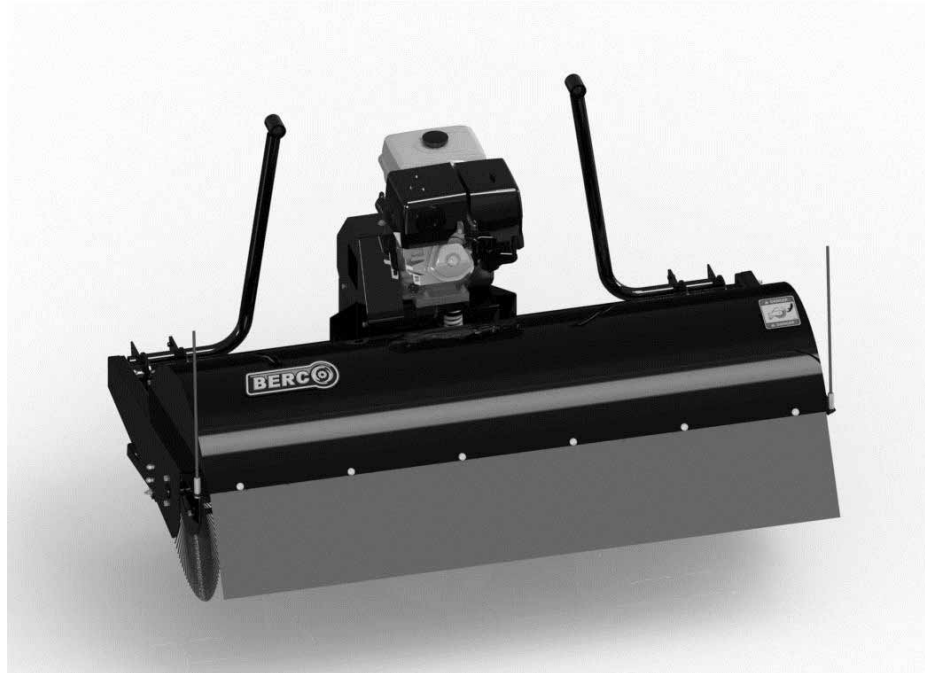


OWNER'S MANUAL

Translated Version

Model Number

700516-3



BERCO ***66' Rotary Broom*** For ***UTILITY VEHICLE***

- * ASSEMBLY
- * OPERATION

- * REPAIR PARTS
- * MAINTENANCE

CAUTION:

**READ & FOLLOW ALL SAFETY RULES & INSTRUCTIONS BEFORE
OPERATING YOUR EQUIPMENT**



LIMITED WARRANTY

Conditions and Products Covered:

BERCOMAC guarantees any part of the product or accessory manufactured by BERCOMAC and found in the reasonable judgment of BERCOMAC to be defective in material and or workmanship will be repaired or replaced by an authorized dealer without charge up to our maximum labor rates and pre-established times. For replacement parts only standard ground freight services are covered. This warranty extends to the original retail purchaser only and is not transferable to any subsequent purchasers. This warranty applies to the products bought and used in North America.

Warranty Period

(from date of the original retail purchase)

- Residential or semi-commercial use: 1 year
- Commercial, professional or rental use: 90 days

Exceptions Noted Below; the following items are guaranteed by the original manufacturer and have their own warranty, conditions and limited time:

- Tire Chains: 90 days
- Engines: Will vary as per the manufacturer
Please refer to the engine manufacturer's warranty statement included with the unit. BERCOMAC is not authorized to handle warranty adjustments on engines.

Items and Conditions NOT Covered:

This warranty does not cover the following:

- Pick-up or delivery charges or in-home services fees.
- Any damage or deterioration of the unit, parts and or finish of these due to normal use, wear and tear, or exposure.
- Cost of regular use or maintenance service or parts, such as gas, oil, lubricants, tune-up parts, and adjustments.
- Any part or accessory which has been altered, modified, misused, neglected, accidentally damaged or not properly installed, maintained, stored or repaired not in accordance with the instructions in the owner's manual.
- Repair due to normal wear and or any wear items such as shear pins, bolts, belts, etc.
- Expedited freight fee services for replacement parts.
- Shear bolts and shear pins are to be considered as a preventive measure not as an assured protection, any damages resulting from the lack of shear bolts breakage are not covered.
- Damages due to product being installed on vehicle other than stipulated in the owner's manual.

NOTE: All warranty work must be performed by an authorized dealer using original (manufacturer) replacement parts.

NOTE: Bercomac reserves the right to change or improve the design of any part or accessory without assuming any obligation to modify any product previously manufactured.

Instructions for Obtaining Warranty Services:

Contact dealer where equipment was purchased or any other BERCO service dealer to arrange service at their dealership. To locate a dealer convenient to you, access our website at www.bercomac.com. Don't forget to bring your proof of purchase (sales receipt) to the BERCO dealer.

Owner's Responsibilities:

BERCOMAC's defective equipment or part must be returned to an authorized dealer within the warranty period for repairs. In the event that defective merchandise must be returned to manufacturer for repairs, freight fees are prepaid and a written authorization from BERCOMAC must be obtained by dealer prior to the shipment. This warranty extends only to equipment operated under normal conditions. To validate a warranty claim, it is the user's responsibility to maintain and service the unit as specified in the owner's manual or to have the unit serviced at their dealer at their expense.

General Conditions:

The sole liability of BERCOMAC with respect to this warranty shall be strictly and exclusively repair and replacement as mentioned herein. BERCOMAC shall not have any liability for any other costs, loss or damage, including but not limited to, any incidental or consequential loss or damage. Taking advantage of the warranty does not in any way extend the length or renewal of the warranty.

In particular, without being limited to, BERCOMAC shall have no liability or responsibility for:

- Travel time, overtime, after hours time or other extraordinary repair charges or relating to repairs and or replacements outside of normal business hours.
- Rental of like or similar replacement equipment during the period of any, repair or replacement work.
- Any communicating or travel charges.
- Loss or damage to person or property other than that covered by the terms of this warranty.
- Any claims for lost revenue, lost profit or any similar costs as a result of damage or repair.
- Attorney's fees.

BERCOMAC's responsibility in respect to claims is limited to making the required repairs or replacement without charge up to our maximum labor rates and pre-established times and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any product or accessory. In no event shall recovery of any kind be greater than the amount of the purchase price of the product sold.

This warranty gives you specific legal rights. You may also have other rights, which vary from state to state.

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INTRODUCTION

TO THE PURCHASER

This new accessory was carefully designed to give years of dependable service. This manual has been provided to assist in the safe operation and servicing of your attachment.

NOTE: All photographs and illustrations in the manual may not necessarily depict the actual models or attachment, but are intended for reference only and are based on the latest product information available at the time of publication.

Familiarize yourself fully with the safety recommendations and operating procedures before putting the machine to use. Carefully read, understand and follow these recommendations and insist that they be followed by those who will use this attachment.



THIS SAFETY ALERT SYMBOL IDENTIFIES AN IMPORTANT SAFETY MESSAGE IN THIS MANUAL THAT HELPS YOU AND OTHERS AVOID PERSONAL INJURY OR EVEN DEATH. DANGER, WARNING, AND CAUTION ARE SIGNAL WORDS USED TO IDENTIFY THE LEVEL OF HAZARD. HOWEVER, REGARDLESS OF THE HAZARD, BE EXTREMELY CAREFUL.

DANGER: Signals an extreme hazard that will cause serious injury or death if recommended precautions are not followed.

WARNING: Signals a hazard that may cause serious injury or death if the recommended precautions are not followed.

CAUTION: Signals a hazard that may cause minor or moderate injury if the recommended precautions are not followed.

Record your attachment serial number and purchase date in the section reserved below (there is no serial number on the subframe). Your dealer requires this information to give you prompt, efficient service when ordering replacement parts. Use only genuine parts when replacements are required.

If warranty repairs are required please present this registration booklet and original sales invoice to your selling dealer for warranty service.

This manual should be kept for future reference.

Please check if you have received all the parts for your kit with the list of the bag and the list of the box.

SERIAL NUMBER : _____
(IF APPLICABLE)

MODEL NUMBER: _____

PURCHASE DATE : _____



SAFETY PRECAUTIONS



Careful operation is your best insurance against an accident. Read this section carefully before operating the vehicle and accessory. This accessory is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury. All operators, no matter how experienced they may be, should read this and other manuals related to the vehicle and accessory before operating. It is the owner's legal obligation to instruct all operators in safe operation of the accessory.

GLOSSARY:

In this manual, right and left sides are determined by sitting on the seat of the vehicle facing forward.

In this manual, "accessories" means attachments (snowblower, rotary broom, blade etc.) that you install on the vehicle (lawn tractors, A.T.V. s etc).

TRAINING:



This symbol, "Safety Alert Symbol", is used throughout this manual and on the accessory's safety labels to warn of the possibility of serious injury. Please take special care in reading and understanding the safety precautions before operating the vehicle and accessory.

1. Read this owner's manual carefully. Be thoroughly familiar with the controls and proper use of the vehicle and accessory. Know how to stop the unit and disengage the controls quickly.
2. Never allow children to operate the vehicle nor the accessory. Never allow adults to operate the vehicle nor the accessory without proper instructions.
3. No one should operate the vehicle nor the accessory while intoxicated or while taking medication that impairs the senses or reactions.
4. Keep the area of operation clear of all people, particularly small children and pets.

PREPARATION:

1. Thoroughly inspect the area where the accessory is to be used and remove door mats, all foreign objects and the like.
2. For motorized accessories, disengage all clutches and shift into neutral before starting engine.
3. Do not operate the accessory without wearing adequate winter outer garments. Avoid loose fitting clothing that can get caught in moving parts. Wear footwear that will improve footing on slippery surfaces.

4. Handle fuel with care, it is highly flammable.

- a) Use approved fuel container.
 - b) Never add fuel to a running engine or hot engine.
 - c) Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
 - d) Never fill containers inside a vehicle, or on a truck or a trailer bed with a plastic liner. Always place containers on the ground, away from your vehicle, before filling.
 - e) When practical, remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment on a trailer with a portable container, rather than from a gasoline dispenser nozzle.
 - f) Keep the nozzle in contact with the rim of the fuel tank or container opening at all times, until refueling is complete. Do not use a nozzle lock-open device.
 - g) Replace fuel cap securely and wipe up spilled fuel.
 - h) If fuel is spilled on clothing, change clothing immediately.
5. Never attempt to make any adjustments while the engine (motor) is running (except when specifically recommended by manufacturer).
 6. Let the vehicle and accessory adjust to outdoor temperatures before using.
 7. Never use an accessory without proper guards, plates, or other safety protective devices in place
 8. Always make sure to wear the appropriate safety equipment required (glasses, muffs, mask...) for each type of product. See operation section.
 9. Always make sure of having safe traction on the vehicle by using the recommended accessories (chains, A.T.V. tracks, counterweights...). See operation section.
 10. Always make sure the all components are correctly installed. (driveline securely attached and locked at both ends, belts properly installed...)
 11. Always handle the winch cable with thick leather gloves.
 12. **Never modify the accessory or any part without the written consent from the manufacturer.**



SAFETY PRECAUTIONS



OPERATION:

1. Do not put hands or feet near, under or inside rotating parts.
2. Exercise extreme caution when operating on or crossing gravel drives, walks or roads. Stay alert for hidden hazards or traffic. Do not carry passengers.
3. After striking a foreign object, stop the engine (motor), disconnect the wire from the spark plug(s) and keep wire away to prevent accidental starting. Thoroughly inspect the accessory for any damage and repair damage before restarting and using the accessory.
4. If the unit should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
5. Take all possible precautions when leaving the vehicle unattended. Disengage the power take-off, lower the attachment, place the transmission into neutral, set the parking brake, stop the engine and remove the contact key.
6. Do not run the engine indoors, except when starting the engine and for transporting in or out of the building. Do not operate or let motor run in a storage area without ventilation because gas contains carbon monoxide which is odorless, colorless and can cause death.
7. Never use the accessories across the face of slopes, go from top to bottom. Exercise extreme caution when using equipment on slopes. Do not attempt to clear a steep slope.
8. Never tolerate bystanders in the working zone. Never use an accessory in the direction of bystanders, it might throw gravel or debris that can hurt people or damage property.
9. Never operate the accessory at high transport speeds on slippery surfaces. Use care when backing up.
10. Do not carry passengers.
11. Disengage power to the accessory when it is transported or not in use.
12. Never operate the accessory without good visibility or light.
13. Keep the accessory away from heat sources or flames.
14. Never handle the winch cable or hook while in tension.

MAINTENANCE AND STORAGE

1. When cleaning, repairing or inspecting the vehicle and accessory, make certain that all moving parts have stopped. For gasoline engine, disconnect wire from the spark plug(s) and keep wire away to prevent accidental starting.
2. Check all the bolts and components at frequent intervals to make sure that they are properly tightened.
3. Never store a motorized accessory with fuel in the fuel tank inside a building where ignition sources are present such as hot water and space heaters, clothes dryers, and the like. Allow the engine to cool before storing in any enclosure.
4. Always refer to the owner's manual when you store the accessory and vehicle for a prolonged or an unspecified length of time.
5. Maintain or replace safety and instruction labels, as necessary.
6. For winter accessories, (if applicable), let the engine run for a few minutes after clean snow in order to prevent the rotary parts from freezing.
7. Inspect the vehicle's and accessory's air filter (if applicable) every day. Clean it or replace it as necessary. Change the oil more often when working in dusty conditions. See the vehicle's and accessory's owner's manual.



**THIS SYMBOL MEANS
DANGER !
BECOME ALERT !
YOUR SAFETY IS INVOLVED !**



SAFETY DECALS



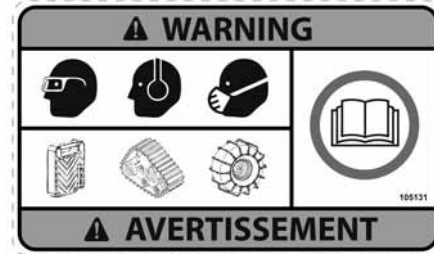
REPLACE IF DECALS ARE DAMAGED
SEE PARTS BREAKDOWN FOR DECAL LOCATION

DECAL #105128



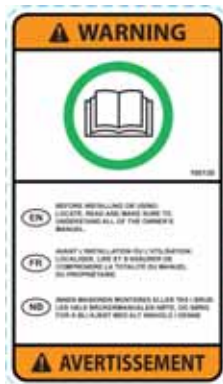
To avoid serious injuries :
Keep hands, feet & clothing away.
Do not attempt to install or remove drive belt without reading owner's manual.

DECAL #105131



Refer to owner's manual about wearing safety glasses, ear muffs and mask.
Refer to owner's manual for use of counter weights, cat tracks and tire chains.

DECAL #105130



Before installing or using:
Locate, read and make sure to understand all of the owner's manual.

DECAL #105997

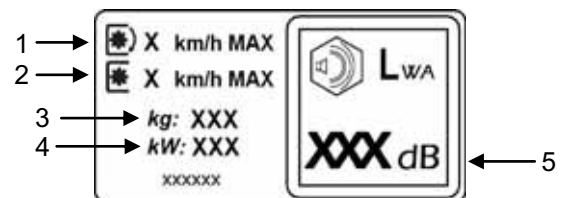


To avoid serious injuries :
Keep hands, feet & clothing away from the broom when the vehicle is in operation.

DECAL #105396



To avoid serious injuries:
Disengage the broom before starting the engine.

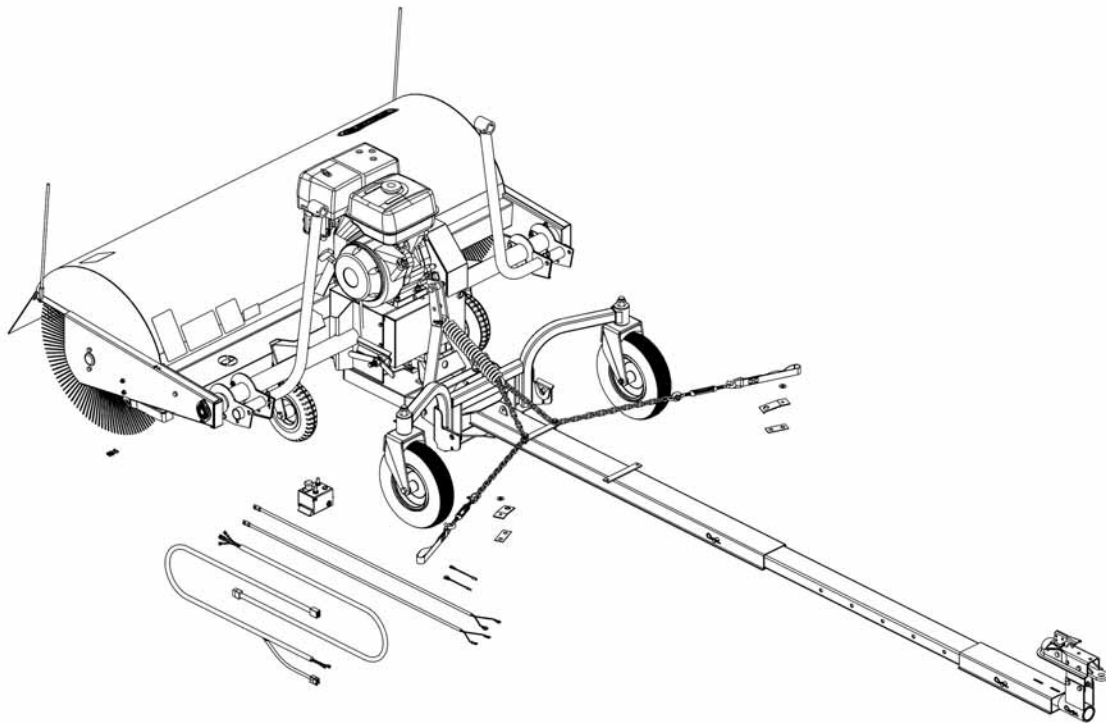


- 1-Maximum speed when the accessory is in operation.
- 2-Maximum speed when the accessory is not in operation.
- 3-The weight of the accessory.
- 4-The engine wattage (if applicable).
- 5-The sound pressure level (measured in dBA) from the driver's position and with the accessory on the ground at full engine speed.

ASSEMBLY

IMPORTANT: TORQUE ALL BOLTS ACCORDING TO TORQUE SPECIFICATION TABLE (SEE TABLE OF CONTENTS) WHEN STATED: TIGHTEN FIRMLY. REFER TO PARTS BREAKDOWN SECTION FOR PART IDENTIFICATION.

CONVERSION TABLE	
1" (po, in)	25.4 mm
1' (pi, ft)	0.3 m
1 psi (lb/in ²)	6.89 kPa
1 lb	0.45 kg
1 lbf	4.4 N
1 m/h (mi/h)	1.61 km/h
1 hp (cv)	0.75 kW



TOOLS REQUIRED

Ratchet
Sockets 1/2", 9/16", 7/16"
Wrench 1/2", 9/16", 7/16" (for the nuts on the vehicle's battery posts)
Test light
Square screwdriver #2

Overall view

ASSEMBLY

STEP 1

VEHICLE PREPARATION:

NOTE: A 1 7/8" tow hitch ball is required.

Choose one of the three following options as a means of fastening the subframe.

OPTION A:

Install the lift strap (item 1) by making a loop around the front suspension arm (item 2) of the vehicle. Tighten the loop firmly.

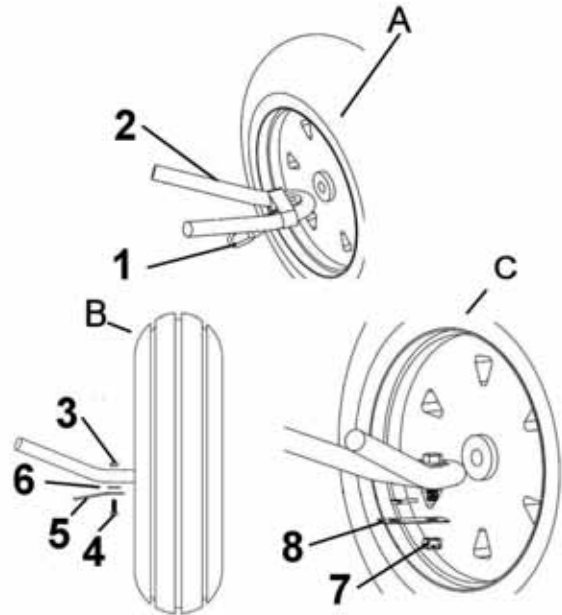
OPTION B:

Remove the nut (item 3) and bolt (item 4) from the vehicle's front suspension arm. Secure the bracket (item 5) with a bolt, flat washer (item 6) and nut. Do not tighten the nut too firmly.

OPTION C:

Remove the nut (item 7) and bolt from the vehicle's front suspension arm. Secure the bracket (item 8) with a bolt, flat washer and nut. Do not tighten the nut too firmly.

NOTE: Repeat the operation on the other side of vehicle.

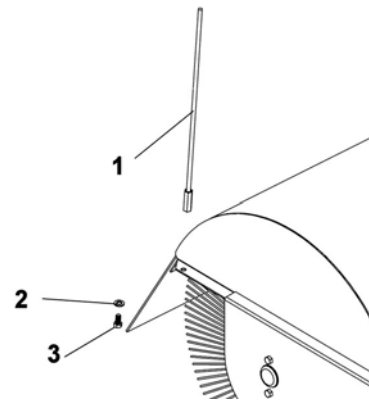


Install the lift strap or the brackets.

STEP 2

BROOM PREPARATION:

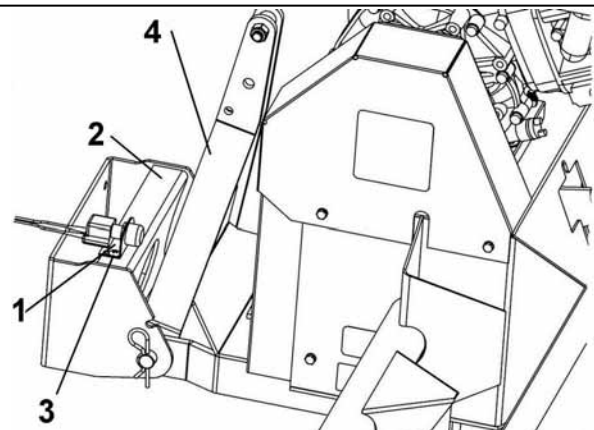
Install the two side markers (item 1) as shown. Secure in place with a 3/8" lock washer (item 2) and a 3/8" x 3/4" hex bolt (item 3) as shown. Tighten firmly. Repeat on the other side.



Install the side markers

Install the limit switch assembly (item 1) on the attaching plate (item 2) as shown. Secure in place with two machine screws (item 3).

IMPORTANT: Tilt the attaching plate to lean against the push frame (item 4). Adjust the limit switch so that it rests against the push frame. Tighten the machine screws firmly.



Install the limit switch

ASSEMBLY

STEP 3

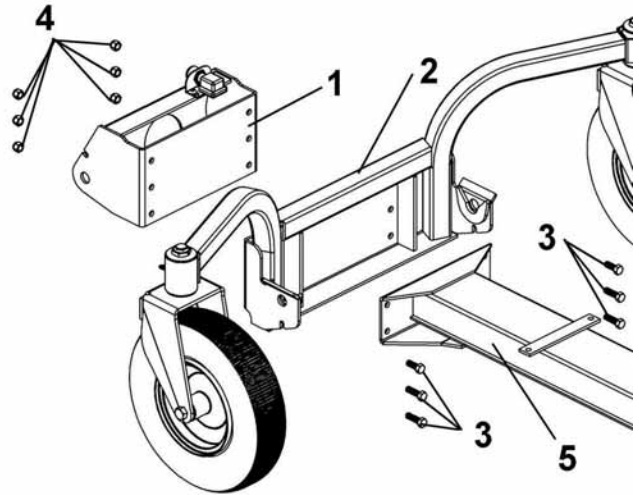
SUBFRAME PREPARATION:

NOTE: The set of holes used to assemble the wheel support to the subframe depends on the height of the vehicle. Once installed the subframe must be parallel with the ground.

Assemble the attaching plate (item 1) and the subframe (item 5) to the wheel support (item 2) as shown.

Secure all three pieces with six $\frac{3}{8}$ " x 1" hex bolts (item 3) and the six flange nuts (item 4).

Tighten firmly.



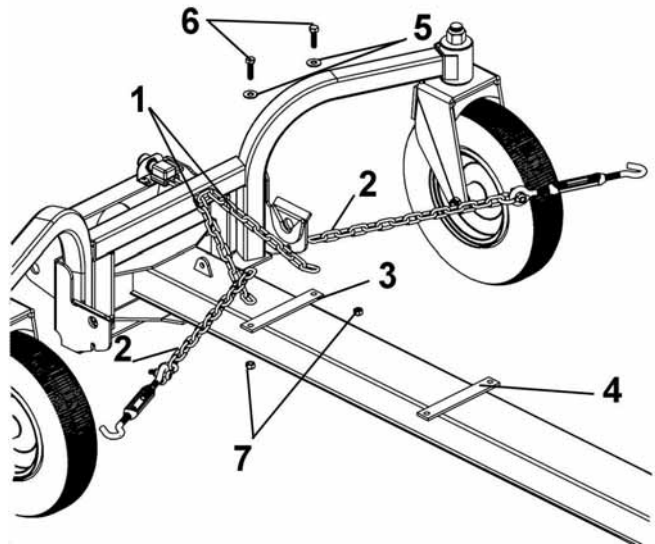
Assemble the wheel support

Install the chain (item 1) and the assembled turnbuckles (item 2) on the attaching plate (item 3) the subframe as shown.

Secure the chains in place with two flat washers (item 5) and hex bolts $\frac{5}{16}$ " x 1 $\frac{1}{4}$ " (item 6) and two nylon insert lock nuts $\frac{5}{16}$ " (item 7) as shown.

Tighten firmly.

NOTE: Position the chains as shown and tighten firmly.



Install the chain & assembled turnbuckles

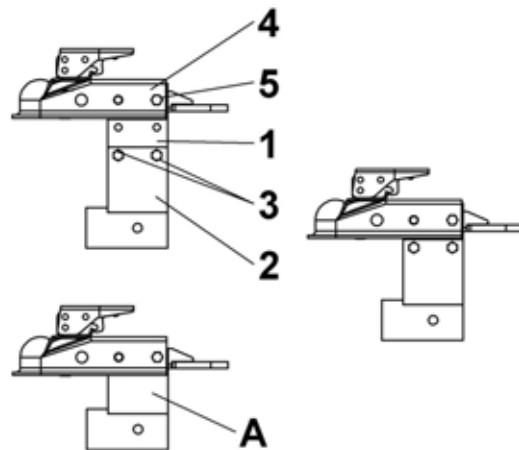
ASSEMBLY

Among the three following configurations, choose the height of the hitch support. There must be a maximum of ground clearance.

(Configuration A) does not have the hitch support plates (item 1).

If applicable, assemble the hitch support plates on the hitch support (item 2) with four hex bolts $\frac{3}{8}$ " x $\frac{3}{4}$ " (item 3) and four nylon insert lock nuts $\frac{3}{8}$ ". Secure the hitch (item 4) on the two hitch support plates or on the hitch support with a hex bolt $\frac{3}{8}$ " x 3" (item 5) and one nylon insert lock nut $\frac{3}{8}$ ".

Tighten firmly.



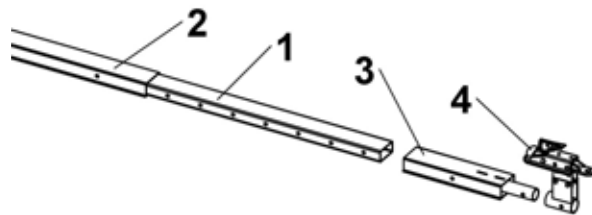
Adjust the hitch support

There are seven different positions on the adjustment tube (item 1) (the adjustment tube can be inverted) to adjust the length of the subframe.

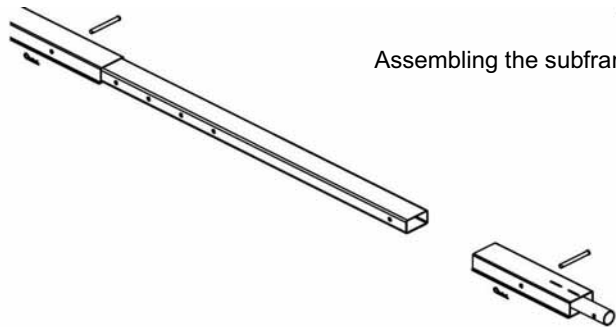
To choose the right adjustment, insert the adjustment tube into the subframe (item 2) and insert the rear bracket (item 3) on the adjustment tube.

Slide the hitch support (item 4) on the rear bracket.

Do not secure.

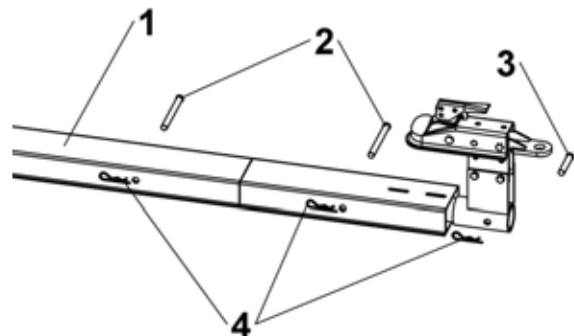


Assembling the subframe



Drive the vehicle over the subframe, make sure the caster wheels do not touch the front wheels of the vehicle.

Identify the right length of the subframe (item 1) and secure in place with two long pins (item 2), a short pin (item 3) and three hair pins 3mm (item 4).



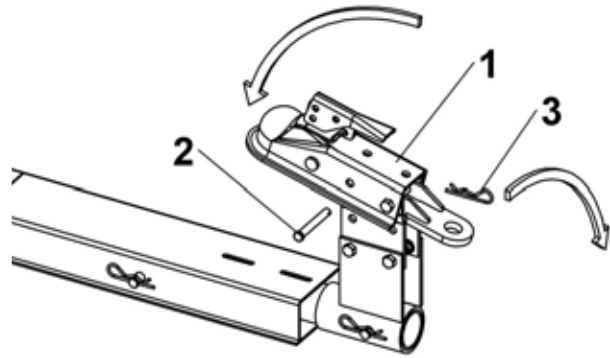
Securing the subframe

ASSEMBLY

Place the hitch (item 1) on the tow hitch ball and secure in place with a pin (item 2) and a hair pin (item 3).

IMPORTANT: Make sure the vehicle never comes into contact with the subframe even when the vehicle's suspensions are compressed to the maximum.

NOTE: You can turn the hitch assembly by removing the pin to facilitate driving the vehicle over the subframe.



Secure the hitch support on the tow hitch ball

WARNING: Always check that ball is completely inserted into hitch coupler socket and that the under jaw is securely closed around the bottom of ball. Always check tightness before using the tow hitch. If necessary, tighten locknut against tension spring. Be sure hitch coupler handle is in locked position.

Install the turnbuckles (item 1) into the lift straps (item 2) or into the brackets (item 3).

IMPORTANT: There are two attaching plates (items 4 & 5) on the subframe to attach the turnbuckle assemblies.

If the attaching point (straps or brackets) on the front suspension arms is behind the second attaching plate (item 5), reinstall the turnbuckle assemblies on the this plate with two flat washers 3/8", two hex bolts 5/16" x 1 1/4" and two nylon insert lock nuts 5/16".

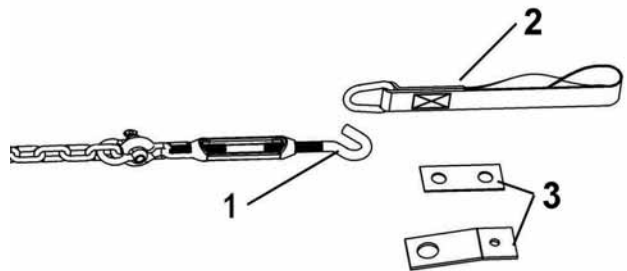
The small chain must remain on the first attaching plate (item 4).

NOTE: The turnbuckles must be directed towards the back of the vehicle.

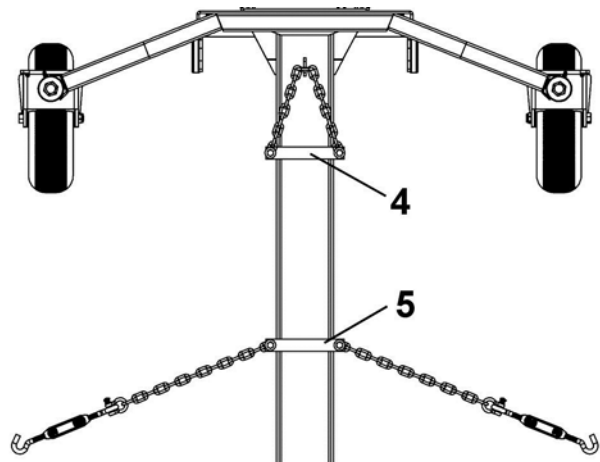
Adjust the turnbuckles so that the subframe is centered under the vehicle.*

Tighten the turnbuckles firmly in order to tighten the vehicle's suspension.

IMPORTANT: After adjusting the turnbuckles, tighten the nuts on the vehicle's suspension arms firmly. Make sure to lock the nuts with the original locks.



Install the turnbuckles into the brackets or into the lift straps.



ASSEMBLY



WARNING



TO PREVENT SERIOUS INJURIES:
Wearing gloves is recommended when handling the winch cable.

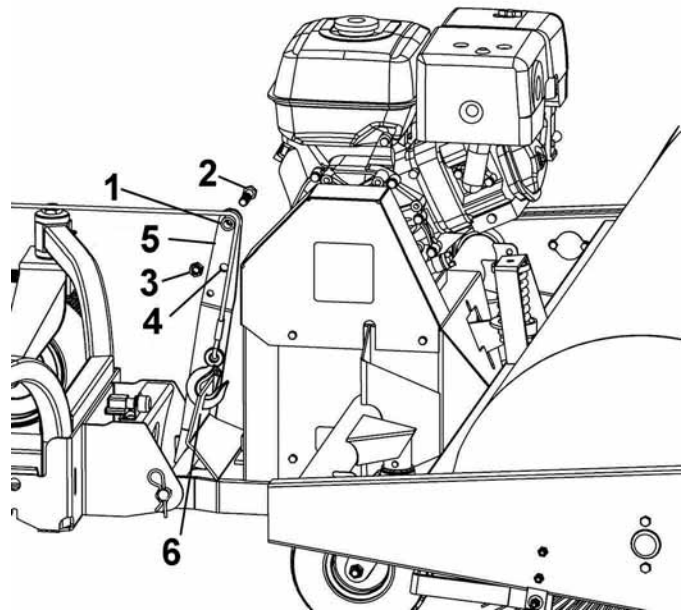
If the winch on the vehicle is **higher** than 20" (510mm) from the ground:
Install the sleeve (item 1) in the top hole of the lever (item 5).

If the winch on the vehicle is **lower** than 20" (510mm) from the ground:
Insert the sleeve (item 1) in the bottom hole (item 4) of the lever.

Secure in place with a 1/2" x 2 1/4" hex bolt (item 2) and 1/2" nylon insert lock nut (item 3).
Tighten firmly.

Tip: Thread the winch's hook behind the lever as shown and then thread the cable over the sleeve.

Attach the winch hook in the bracket (item 6) as shown.

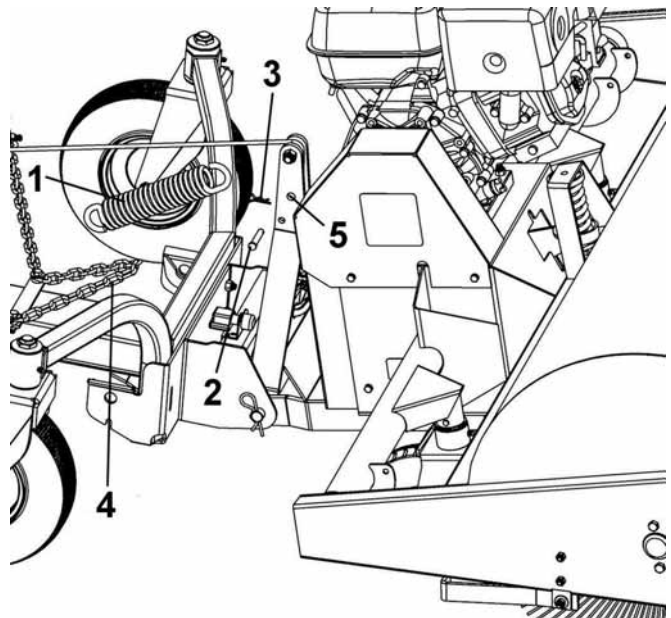


Install the winch hook

NOTE: Lift the broom to its maximum height using the winch (the broom will rest against the subframe).

IMPORTANT: It is very important that the engine on the accessory does not come into contact with the vehicle.

Insert one end of the spring (item 1) onto the chain (item 4) as shown.
Holding the spring, insert the pin (item 2) through the holes of the lever (item 5) and spring as shown.
Secure the pin in place with a 3mm hair pin (item 3) as shown.

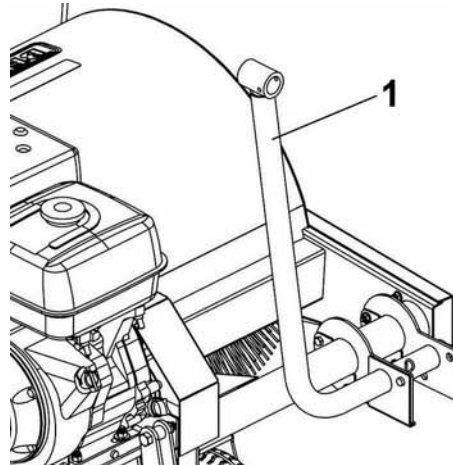


Install the spring

ASSEMBLY

STEP 4 INSTALLATION OF THE WHEEL SUPPORTS:

NOTE: The right and left wheel supports (item 1) are supplied with the rotary broom. Store the supports on the broom as shown when they are not required. It is recommended to use the side wheel support kit when used for dethatching uneven ground.



Store the supports

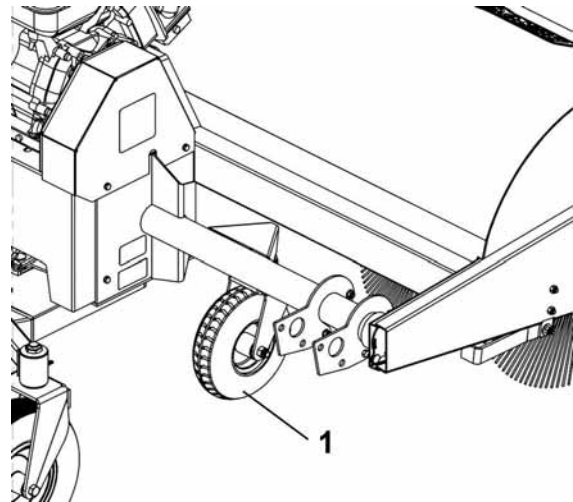
NOTE: Lift the broom with the winch.

Remove the wheel (item 1) already installed on the frame at the back of the broom & reinstall it in the wheel support (item 4).

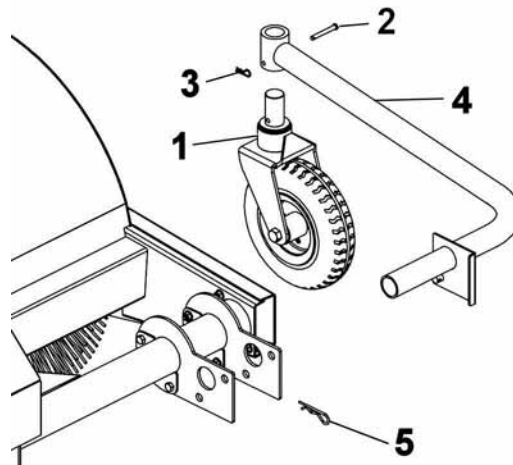
Secure the wheel in the support with the pin (item 2) and a 3mm hair pin (item 3) as shown.

Install the assembled wheel support in the bracket as shown.

Secure in place with a 3mm hair pin (item 5).
Repeat the operation on the other side.



Remove the wheel already installed



Install the wheel supports on each side.

ASSEMBLY

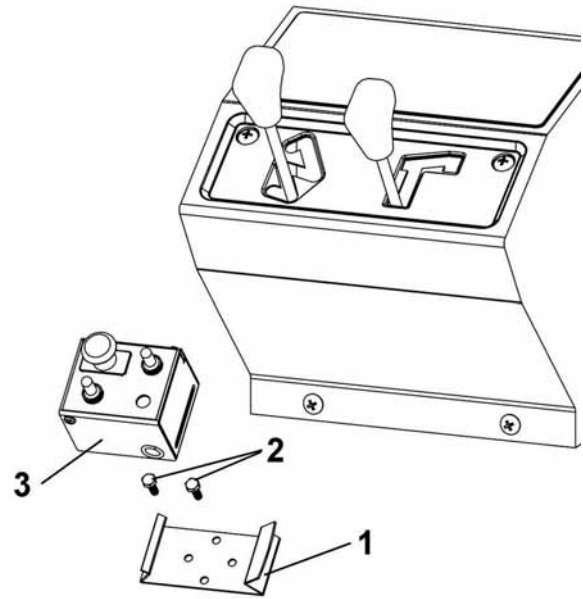
STEP 5 **INSTALLATION OF THE CONTROL BOX:**

Disconnect the connectors that unite the control box to the broom.

Install the box support (item 1) in an appropriate place. Drill holes if necessary.
Secure box support in place with two hex bolts 1/4" x 3/4" (item 2) with two flange nuts. Tighten firmly.

Install the control box (item 3) on the box support.

Thread the wires from the control box under the hood to the front of the vehicle (except the one with the black and red wires which will be connected to the battery) in order to connect the control box to the broom.



Install the control box

STEP 6 **CONNECTING THE LIMIT SWITCH FOR THE WINCH:**

NOTE: Before installing the limit switch, identify which wire (the one used to lift the accessory, item 1) on the relay that comes from the control switch for the winch with a hi / low voltage tester.

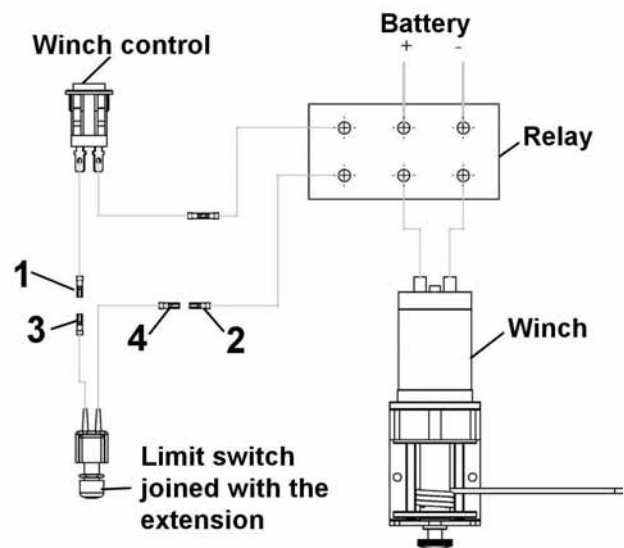
Disconnect the relay from the winch control by separating the connectors (items 1 & 2.)

Connect the limit switch by joining the connectors (items 1 & 3) and the connectors (items 2 & 4) together.

NOTE: The connectors on the limit switch extension (#105388) are a flat type.

Another limit switch extension (#106079) with ball type connectors is also supplied with the broom in order to make the limit switch compatible with most of the vehicles on the market.

If the connectors on the vehicle are different than the ones proposed, it is possible to modify the limit switch extension.



Connect the limit switch

ASSEMBLY

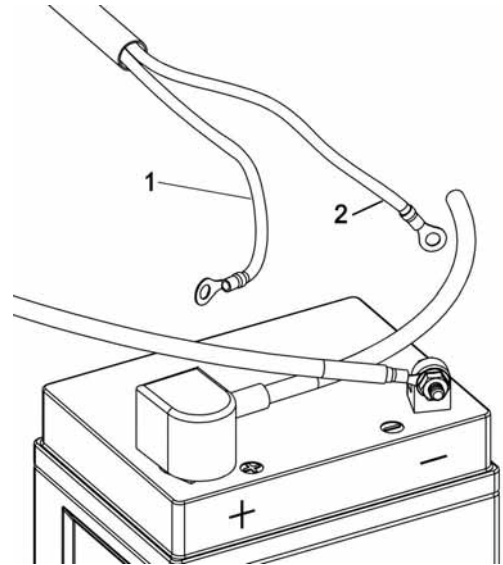
Wires for the control box:

Connect the red wire (item 1) to the positive post and the white wire (item 2) to the negative post on the vehicle's battery.

NOTE: Secure the wires to the vehicle with the nylon tie wraps. These wires will stay on the vehicle.

IMPORTANT: The control box is equipped with a red emergency kill switch (item 1, picture below) in case you need to stop the engine quickly.

NOTE: The emergency kill switch must be pulled out to start the engine for the rotary broom.



Install the wires of the control box

IMPORTANT:

Take the time to familiarize yourself with the location of the switches and with their use.

Pay particular attention to the switch for the belt tensioner (item 2). This switch must be held in position for a few seconds in order to activate or deactivate the lever of the belt tensioner.

Make sure that the action is complete when you engage or disengage the broom.

DANGER:

It is the responsibility of the person who installs the engine and the controls to make sure that the engaging system works well and that the broom disengages effectively at all times. It is imperative to make the necessary adjustments if applicable.

Identification of the switches:

1. Emergency switch. **(Pull out to start)**
2. Switch for the belt tensioner.
(Push towards the top to disengage the belt).
(Push towards the bottom to engage the belt).
3. Switch for the angling.
4. Indicator light that turns on when the disengagement is completely finished.

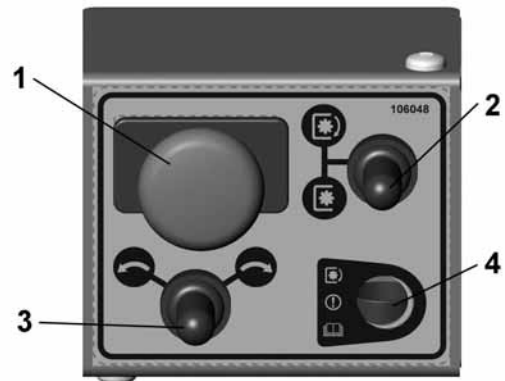
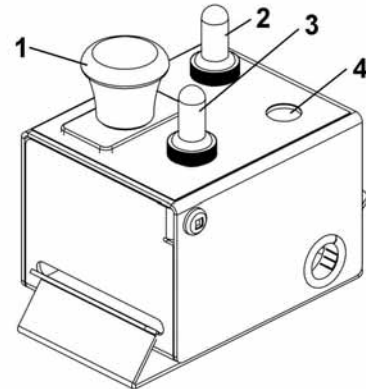
VERIFY TIRE PRESSURE:

Verify and adjust the pressure in the tires as follows:

Tires on subframe: 50 psi

Tires on the broom: 50 psi

The pressure in the tires must be equal on both sides.



OPERATION



WARNING



Read the vehicle owner's manual carefully. Be thoroughly familiar with the controls & proper use of the attachment. Know how to stop the accessory quickly.



WARNING



Never start the accessory when engaged.



WARNING



When starting the engine on the accessory, make sure:

- The indicator light is turned on to signal that the disengagement is completely finished.
- The vehicle's hand brake is activated.
- To lift the accessory off the ground.



WARNING



TO PREVENT INJURIES AND FOR MORE TRACTION WHEN USING THE ACCESSORY:

- Do not drive faster than 3 km/hr (2 m/hr) with an accessory on the ground.
- Do not drive faster than 10 km/hr (6 m/hr) with the accessory in raised position.
- Do not operate on a slope greater than 10%.
- Vehicle manufacturer approved tire chains are required.
- Maximum drawbar pull provided for at the hitch ball coupling: 3560N (800 lbs)
- Maximum vertical load provided for on the hitch ball coupling: 360N (80 lbs).
- Ear muffs, dust mask, safety glasses and gloves are recommended.

FAMILIARISATION OF THE CONTROLS:

Emergency kill switch: Push on the red button to stop the engine. Disengage the accessory using the handle (item 3) after stopping the engine.

IMPORTANT: The emergency kill switch must be pulled out to start the engine of the accessory.

Familiarize yourself with the controls before using:

- a) Adjust the pressure on the brush
- b) Raise the broom.
- c) Start the engine
- d) Engage the broom.

RAISING AND LOWERING THE ROTARY BROOM:

Use the winch switch control to raise and lower the rotary broom.

ANGLE ADJUSTMENT:

In order to avoid causing damage to the mechanism:

- a) Raise the broom.
- b) Activate the control to turn the broom to the angle desired.
- c) Lower the broom to the ground.

OPERATION

ADJUSTING THE PRESSURE OF THE BRUSH ON THE GROUND

By turning the adjustment handle (item 1) counter clockwise, the pressure of the brush on the ground increases. By turning the adjusting handle clockwise, the pressure of the brush on the ground decreases.

IMPORTANT: Adjust frequently to compensate for brush wear. Remember to sweep with the tips of the bristles like a broom and not with the sides of the bristles like a mop. Too much pressure can decrease the brush life up to 95%.

GENERAL SWEEPING

Minimize dust by reducing brush speed and by sweeping after rain or on a day with high moisture.

SNOW SWEEPING

The broom works well for light snow removal. Decrease the pressure (light pressure) on the brush for snow removal.

Sweep with the wind blowing in the direction of broom discharge (wind in your back).

NOTE: Foreign objects in the snow may be thrown faster than the snow itself.

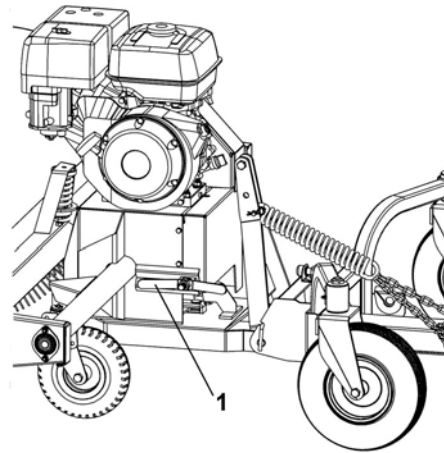
Frequently clean the snow and ice accumulation from the top and bottom of the broom hood.

LAWN DETHATCHING AND LEAF RAKING:

NOTE: It is recommended to use the side wheel support kit when used for dethatching uneven ground. Lower the broom on a hard surface and adjust the height of the brush 1" from the ground by turning the adjusting handle clockwise. The brush is supported by dolly wheels. (The ground must be able to support the weight of the broom).

This adjustment is normally satisfactory but you may raise or lower depending upon height of the grass.

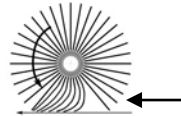
Low brush speed and ground speed is best for lawn dethatching and leaf raking.



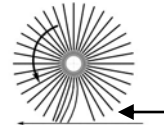
Adjust the pressure on the brush

Never sweep with the sides of bristles!

Sweep with the tips!
Do not mop!



Too much pressure=
Shortens brush life!



Road surface



DANGER

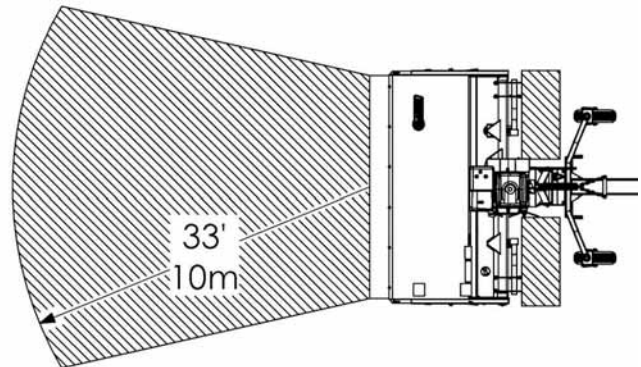


PREVENT INJURIES

Be careful of the danger zone when starting the engine or adjusting the pressure on the brush.

-Stop the vehicle.

-Activate the parking brake.



MAINTENANCE

BEFORE DOING ANY MAINTENANCE OR DISMOUNTING AN ACCESSORY, REFER TO THE SAFETY PRECAUTIONS.

MAINTENANCE

- Grease the wheel axles after every eight hours of use.
- Chain: do not lubricate when used in dusty conditions. After use, wash clean and lubricate.
- Frequently clean the interior and exterior of hood, dirt, mud, ice, etc, accumulation adds weight on the brush and could result in premature wear of brush.
- Check mounting bolts at frequent intervals for proper tightness to be sure equipment is in safe working conditions.
- Apply oil at all pivot points.
- Inspect the air filter on the vehicle and accessory every day. Clean it or replace it when necessary. Change the oil more often when working in dusty conditions. See the owner's manual for the vehicle or for the accessory.



CAUTION

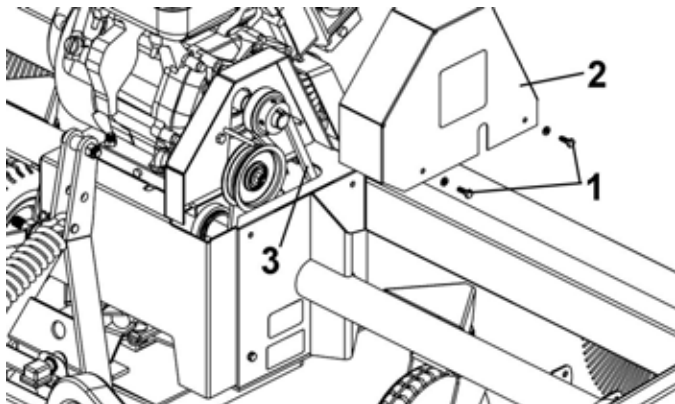


Never use the Rotary Broom without the belt guard.

BELT REPLACEMENT:

For belt part numbers, refer to parts breakdown section for parts identification.

- Remove the three bolts (item 1) and the flat washers.
- Remove the belt guard (item 2).
- Replace the belt (item 3).
- Engage the accessory.
- Make sure the pulleys are well aligned.
- Engage and reinstall the belt guard.



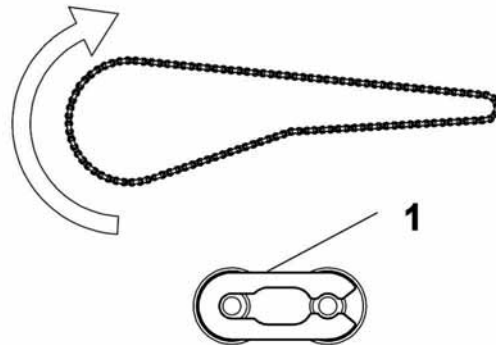
BRUSH REPLACEMENT:

See parts breakdown section for parts identification.

- Lower the chain idler sprocket.
- Remove the chain by removing the connection link.
- Remove the bolts from both flangettes that holds the brush shaft.
- Remove the brush shaft from the broom frame.
- Remove the push plate that holds the brushes.
- Remove all the brushes that are worn out.
- Reinstall the brushes (a flat brush at each end) one at a time by rotating each section 1/4 turn from the other (always rotate in the same direction).
- Install the new brushes by reversing the procedure.

VERY IMPORTANT:

Reinstall the connecting link (item 1) in the same way as shown in the drawing.



DISMOUNTING & STORAGE

DISMOUNTING

- a) Select a flat horizontal surface, set parking brake, stop the engine, and remove the ignition key to prevent accidental starting.
- b) Straighten the broom perpendicular with the vehicle.
- c) Activate the parking stands toward the ground. Make sure the brush bristles never touch the ground.
- d) Lower the broom to the ground.
- e) Unhook the turnbuckles from the front of the vehicle, the hook from the winch and the hitch from the rear of the vehicle.
- f) Disconnect the wires.
- g) Remove the vehicle.

END OF SEASON STORAGE

- a) Clean the broom and inside of the hood and paint all the parts where the paint has worn off.
- b) Take note of the replacement parts needed for next season.
- c) Lubricate all grease fittings and all moving parts.
- d) Store broom on parking stands on a flat horizontal surface. Make sure the brush bristles never touch the ground.
- e) If brush bristles are exposed to direct sunlight, protect the bristles with a tarp.
- f) Store the broom in a dry place.

TROUBLESHOOTING

* Please refer to parts breakdown section for parts identification.

PROBLEM	POSSIBLE CAUSES	CORRECTIVE ACTION
Brush wears out prematurely or does not wear out evenly. The brush turns jerkily or bounces.	The pressure on the brush is not well adjusted. Too much pressure on the brush, it will wear out up to 5 times faster.	Reduce the pressure on the brush when on the ground. Adjust when needed to compensate for the wearing out of the brush. Always sweep with the tips of the bristles like a broom and not with the sides of the bristles like a mop.
The brush does not sweep well.	Debris accumulation.	Clean the inside and outside of the hood frequently during operation. Dirt, mud, ice, etc.. accumulation adds weight on the brush and could result in premature wear of the brush.
The brush is too aggressive when lawn dethatching or leaf raking.	Too much pressure on the brush.	Lower the broom on a hard surface and lift brush 1" from the ground by turning the adjusting screw clockwise. NOTE: It is recommended to use the side wheel support kit when used for dethatching uneven ground.
The chain wears out prematurely.	Inappropriate lubrication.	Do not lubricate the chain during operation. Wait until the job is finished. Wash the rotary broom and lubricate the chain. Let the broom turn a few moments so the oil penetrates in the chain.
The bristles take a bad form or shape.	The broom was not stored on the parking stands.	Wash the broom with warm water or warm steam. Leave in raised position and let it turn a few turns. The brush should take its original shape.
Electric motor does not work (Tension system)	Motor overheating.	These motors are equipped with an internal protector. Wait 10 minutes before using.
The sprocket wears out prematurely.	Chain is not adjusted.	Check the chain adjustment frequently (too tight, too loose).
Loss of steering.	Too much pressure on the brush.	Reduce pressure on the brush. If problem persists, contact your dealer for more information.

TORQUE SPECIFICATION TABLE

GENERAL TORQUE SPECIFICATION TABLE USE THE FOLLOWING TORQUES WHEN SPECIAL TORQUES ARE NOT GIVEN

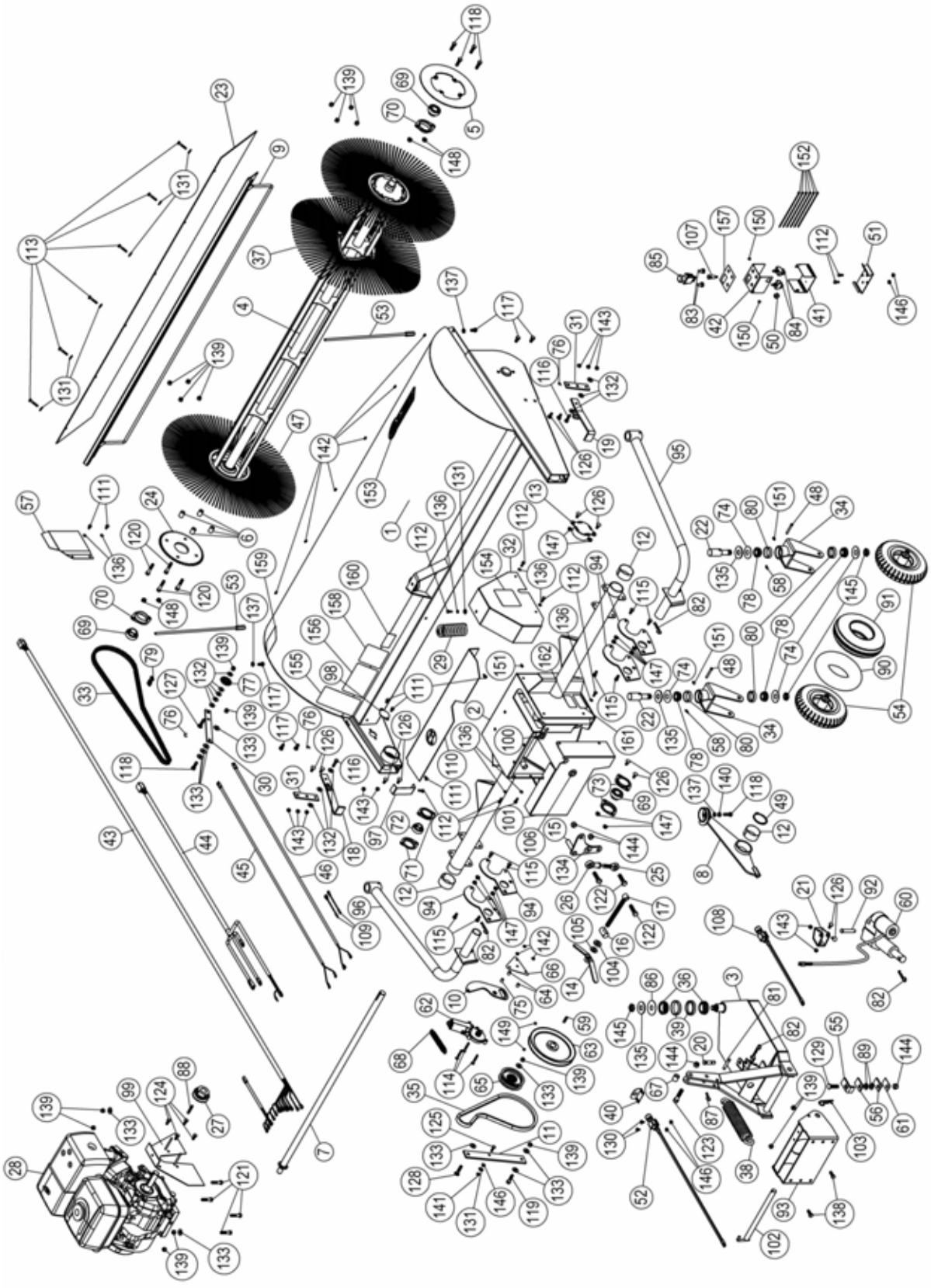
NOTE: These values apply to fasteners as received from supplier, dry or when lubricated with normal oil. They do not apply if special graphited or moly disulphide greases or other extreme pressure lubricants are used. This applies to both UNF and UNC threads.

* Thick nuts must be used with grade 8 bolts

SEE Grade No.		2				5				8 *			
BOLT HEAD IDENTIFICATION MARKS AS PER GRADE NOTE MANUFACTURING MARKS WILL VARY		TORQUE				TORQUE				TORQUE			
BOLT SIZE		FOOT POUNDS		NEW TON-METERS		FOOT POUNDS		NEW TON-METERS		FOOT POUNDS		NEW TON-METERS	
Inches	Millimetre	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1/4"	6.35	5	6	6.8	8.13	9	11	12.2	14.9	12	15	16.3	30.3
5/16"	7.94	10	12	13.6	16.3	17	20.5	23.1	27.8	24	29	32.5	39.3
3/8"	9.53	20	23	27.1	31.2	35	42	47.5	57	45	54	61	73.2
7/16"	11.11	30	35	40.7	47.4	54	64	73.2	86.8	70	84	94.9	113.9
1/2"	12.7	45	52	61	70.5	80	96	108.5	130.2	110	132	149.2	179
9/16"	14.29	65	75	88.1	101.6	110	132	149.2	179	160	192	217	260.4
5/8"	15.88	95	105	128.7	142.3	150	180	203.4	244.1	220	264	298.3	358
3/4"	19.05	150	185	203.3	250.7	270	324	366.1	439.3	380	456	515.3	618.3
7/8"	22.23	160	200	216.8	271	400	480	542.4	650.9	600	720	813.6	976.3
1"	25.4	250	300	338.8	406.5	580	696	786.5	943.8	900	1080	1220.4	1464.5

METRIC BOLT TORQUE SPECIFICATIONS							
		COARSE THREAD			FINE THREAD		
Size Screw	Grade No.	Pitch (mm)	Foot Pounds	Newton-Meters	Pitch (mm)	Foot Pounds	Newton-Meters
M6	4T	1.00	3.6 - 5.8	4.9 - 7.9	-	-	-
	7T		5.8 - 9.4	7.9 - 12.7		-	-
	8T		7.2 - 10	9.8 - 13.6		-	-
M8	4T	1.25	7.2 - 14	9.8 - 19	1.00	12 - 17	16.3 - 23
	7T		17 - 22	23 - 29.8		19 - 27	25.7 - 36.6
	8T		20 - 26	27.1 - 35.2		22 - 31	29.8 - 42
M10	4T	1.50	20 - 25	27.1 - 33.9	1.25	20 - 29	27.1 - 39.3
	7T		34 - 40	46.1 - 54.2		35 - 47	47.4 - 63.7
	8T		38 - 46	51.5 - 62.3		40 - 52	54.2 - 70.5
M12	4T	1.75	28 - 34	37.9 - 46.1	1.25	31 - 41	42 - 55.6
	7T		51 - 59	69.1 - 79.9		56 - 68	75.9 - 92.1
	8T		57 - 66	77.2 - 89.4		62 - 75	84 - 101.6
M14	4T	2.00	49 - 56	66.4 - 75.9	1.50	52 - 64	70.5 - 86.7
	7T		81 - 93	109.8 - 126		90 - 106	122 - 143.6
	8T		96 - 109	130.1 - 147.7		107 - 124	145 - 168
M16	4T	2.00	67 - 77	90.8 - 104.3	1.50	69 - 83	93.5 - 112.5
	7T		116 - 130	157.2 - 176.2		120 - 138	162.6 - 187
	8T		129 - 145	174.8 - 196.5		140 - 158	189.7 - 214.1
M18	4T	2.00	88 - 100	119.2 - 136	1.50	100 - 117	136 - 158.5
	7T		150 - 168	203.3 - 227.6		177 - 199	239.8 - 269.6
	8T		175 - 194	237.1 - 262.9		202 - 231	273.7 - 313
M20	4T	2.50	108 - 130	146.3 - 176.2	1.50	132 - 150	178.9 - 203.3
	7T		186 - 205	252 - 277.8		206 - 242	279.1 - 327.9
	8T		213 - 249	288.6 - 337.4		246 - 289	333.3 - 391.6

PARTS BREAKDOWN ROTARY BROOM



PARTS LIST ROTARY BROOM

Ref. Réf.	English description	Description française	Qty. Qté.	Part # Pièce #
1	Broom frame	Châssis du balai	1	105312
2	Motor frame	Châssis du moteur	1	105313
3	Push frame	Châssis de poussée	1	105314
4	Brush shaft	Arbre de brosse	1	105315
5	Push plate	Plaque poussoir	1	105316
6	Sleeve	Douille	4	105317
7	Drive shaft	Arbre de commande	1	105318
8	Lever	Levier	1	105319
9	Dust guard support	Support garde poussière	1	105320
10	Lever	Levier	1	105321
11	Tensioner	Tensionneur	1	105322
12	Nylon bushing	Coussinet de nylon	3	105323
13	Shoulder support	Support d'épaulement	1	105324
14	Adjustment handle	Poignée d'ajustement	1	105327
15	Adjustment lever	Levier d'ajustement	1	105328
16	Spacer	Espaceur	1	105329
17	Adjustment rod	Tige d'ajustement	1	105330
18	Left parking stand	Pied de stationnement gauche	1	105331
19	Right parking stand	Pied de stationnement droit	1	105332
20	Pin	Goupille	1	105333
21	Actuator support	Support d'actuateur	1	105334
22	Adaptor pin	Goupille d'adaptateur	2	105335
23	Rubber flap	Rabat de caoutchouc	1	105339
24	Sprocket	Pignon	1	105340
25	Male rod end	Embout mâle	1	105341
26	Female rod end	Embout Femelle	1	105342
27	Pulley 2.7" with set screw	Poulie 2.7" avec vis à pression	1	105343

O/L = Obtain Locally

PARTS LIST ROTARY BROOM

Ref. Réf.	English description	Description française	Qty. Qté.	Part # Pièce #
28	Honda Engine 11 hp w/ Cyclone filter & key	Moteur 11 ch Honda a/ filtre cyclone & clé	1	105344
29	Spring	Ressort	1	105345
30	Bender	Tendeur	1	105348
31	Stand holder	Support de pied	2	105349
32	Belt guard	Garde-courroie	1	106477
33	Roller chain #40 x 118 links/conn.link	Chaîne #40 x 118 mailles/maille acc.	1	105351
34	Wheel fork	Fourche de roue	2	105352
35	V-Belt , BX-38	Courroie en V , BX-38	1	105353
36	Cone bearing	Roulement conique	2	105354
37	Waved section brush	Section de brosse ondulée	38	105355
38	Spring	Ressort	1	105356
39	Cup for bearing	Cuvette	2	105357
40	Bracket	Fixation	1	106047
41	Box	Boîte	1	106052
42	Box cover	Couvercle de la boîte	1	106053
43	Wire control box	Fil de la boîte de contrôle	1	106055
44	Wire control box extension	Extension du fil de la boîte de contrôle	1	106056
45	Battery wire	Fil de la batterie	1	105387
46	Limit switch extension	Extension du commutateur de fin de course	1	105388
47	Flat section brush	Section de brosse plate	2	105364
48	Pin	Goupille	2	105365
49	Retaining ring	Bague de retenue	1	105366
50	Plastic grommet	Oeillet de plastique	1	105371
51	Box support	Support de la boîte	1	104661
52	Limit switch (N.C.)	Commutateur de fin de course (N.F.)	1	106006
53	Side marker	Repère latéral	2	105376
54	Wheel assembly	Roue assemblée	2	105377

O/L = Obtain Locally

PARTS LIST ROTARY BROOM

Ref. Réf.	English description	Description française	Qty. Qté.	Part # Pièce #
55	Bracket	Fixation	1	105378
56	Spacer	Espaceur	2	105379
57	Chain guard	Garde chaîne	1	105383
58	Wrap around locking pin	Goupille à fermeture enroulante	2	105393
59	Key 1/4" x 1/4" x 1 3/16"	Clé 1/4" x 1/4" x 1 3/16"	1	105399
60	Actuator assembly	Actuateur assemblé	1	105398
61	Spacer	Espaceur	1	105422
62	Electric motor	Moteur électrique	1	106147
63	V pulley	Poulie en V	1	103740
64	Spacer	Espaceur	2	103361
65	Flat pulley	Poulie plate	1	102765
66	Plate	Plaque	1	103363
67	Sleeve	Douille	1	102480
68	Spring	Ressort	1	102592
69	Bearing with set screw	Roulement à billes avec vis à pression	3	102755
70	Flangette	Flangette	2	102680
71	Flangette	Flangette	2	102212
72	Bearing with set screw	Roulement à billes avec vis à pression	1	102864
73	Flangette	Flangette	2	102213
74	Seal washer	Rondelle d'étanchéité	4	102289
75	Oil lite bushing	Coussinet imprégné d'huile	1	103362
76	Spring 1/2"	Ressort 1/2"	3	102003
77	Idler sprocket	Pignon tendeur	1	102027
78	Cone bearing	Roulement conique	4	102369
79	Connecting Link #40	Maille d'accouplement #40	1	102040
80	Cup for bearing	Cuvette	4	102370
81	Pin	Goupille	1	103580

O/L = Obtain Locally

PARTS LIST ROTARY BROOM

Ref. Réf.	English description	Description française	Qty. Qté.	Part # Pièce #
82	Hair pin 3mm	Goupille à ressort 3mm	4	102617
83	Rubber boot	Capuchon de caoutchouc	2	103379
84	Switch	Commutateur	2	103381
85	Emergency switch	Interrupteur d'urgence	1	104807
86	Washer	Rondelle	1	105346
87	Hair pin 2.5mm	Goupille à ressort 2.5mm	1	102013
88	Key 1/4" x 1/4" x 1 3/4"	Clé 1/4" x 1/4" x 1 3/4"	1	102327
89	Washer	Rondelle	2	104122
90	Inner tube 250-4	Chambre à air 250-4	1	102675
91	Tire 280/250-4	Pneu 280/250-4	1	102674
92	Pin	Goupille	1	102189
93	Attaching plate	Plaque d'attache	1	106043
94	Support plate	Plaque de support	4	106044
95	Right wheel support	Support de roue droit	1	106045
96	Left wheel support	Support de roue gauche	1	106046
97	Chain guard	Garde chaîne	1	106050
98	Chain guard	Garde chaine	1	106051
99	Belt Guide	Guide-courroie	1	106478
100	Spacer	Espaceur	1	106059
101	Rotation guard	Garde de rotation	1	106060
102	Pin	Goupille	1	104759
103	Hair pin 4mm	Goupille à ressort 4mm	1	102054
104	Spacer	Espaceur	1	102753
105	Bushing	Coussinet	1	106018
106	Rubber gromet	Oeillet de caoutchouc	1	106081
107	Indicator light	Voyant lumineux	1	106008
108	Limit switch (N.O.)	Commutateur de fin de course (N.O.)	1	106005
109	Connector wire Kit	Ensemble de fil connecteur	1	106079

O/L = Obtain Locally

PARTS LIST ROTARY BROOM

Ref. Réf.	English description	Description française	Qty. Qté.	Part # Pièce #
110	Security gird	Garde de sécurité	1	106128
111	Hex. bolt 1/4" n.c. x 1/2"	Boulon hex. 1/4" n.c. x 1/2"	6	O/L
112	Hex. bolt 1/4" n.c. x 3/4"	Boulon hex. 1/4" n.c. x 3/4"	9	O/L
113	Hex. bolt 1/4" n.c. x 1 1/2"	Boulon hex. 1/4" n.c. x 1 1/2"	6	O/L
114	Hex. bolt 1/4" n.c. x 1 3/4"	Boulon hex. 1/4" n.c. x 1 3/4"	3	O/L
115	Hex. bolt 5/16" n.c. x 3/4"	Boulon hex. 5/16" n.c. x 3/4"	8	O/L
116	Hex. bolt 5/16" n.c. x 1 1/4"	Boulon hex. 5/16" n.c. x 1 1/4"	2	O/L
117	Hex. bolt 3/8" n.c. x 3/4"	Boulon hex. 3/8" n.c. x 3/4"	6	O/L
118	Hex. bolt 3/8" n.c. x 1 1/4"	Boulon hex. 3/8" n.c. x 1 1/4"	6	O/L
119	Hex. bolt 3/8" n.c. x 1 1/2"	Boulon hex. 3/8" n.c. x 1 1/2"	1	O/L
120	Hex. bolt 3/8" n.c. x 2"	Boulon hex. 3/8" n.c. x 2"	4	O/L
121	Hex. bolt 3/8" n.c. x 1 3/4"	Boulon hex. 3/8" n.c. x 1 3/4"	4	O/L
122	Hex. bolt 1/2" n.c. x 1 3/4"	Boulon hex. 1/2" n.c. x 1 3/4"	3	O/L
123	Hex. bolt 1/2" n.c. x 2 1/4"	Boulon hex. 1/2" n.c. x 2 1/4"	1	O/L
124	Hex. bolt 5/16" n.f. x 3/4"	Boulon hex. 5/16" n.f. x 3/4"	4	O/L
125	Carriage bolt 1/4" n.c. x 1"	Boulon à carrosserie 1/4" n.c. x 1"	1	O/L
126	Carriage bolt 5/16" n.c. x 3/4"	Boulon à carrosserie 5/16" n.c. x 3/4"	12	O/L
127	Carriage bolt 3/8" n.c. x 1-1/2"	Boulon à carrosserie 3/8" n.c. x 1 1/2"	1	O/L
128	Carriage bolt 3/8" n.c. x 1 3/4"	Boulon à carrosserie 3/8" n.c. x 1 3/4"	1	O/L
129	Carriage bolt 1/2" n.c. x 1 3/4"	Boulon à carrosserie 1/2" n.c. x 1 3/4"	1	O/L
130	Machine screw T.H. 1/4" n.c. x 1/2"	Vis mécanique T.H. 1/4" n.c. x 1/2"	2	O/L
131	Flat washer 5/16" hole	Rondelle plate 5/16" trou	8	O/L
132	Flat washer 3/8" hole	Rondelle plate 3/8" trou	11	O/L
133	Flat washer 7/16" hole	Rondelle plate 7/16" trou	10	O/L
134	Flat washer 1/2" hole	Rondelle plate 1/2" trou	1	O/L
135	Flat washer 13/16" hole	Rondelle plate 13/16" trou	3	O/L
136	Lock washer 1/4"	Rondelle de blocage 1/4"	8	O/L

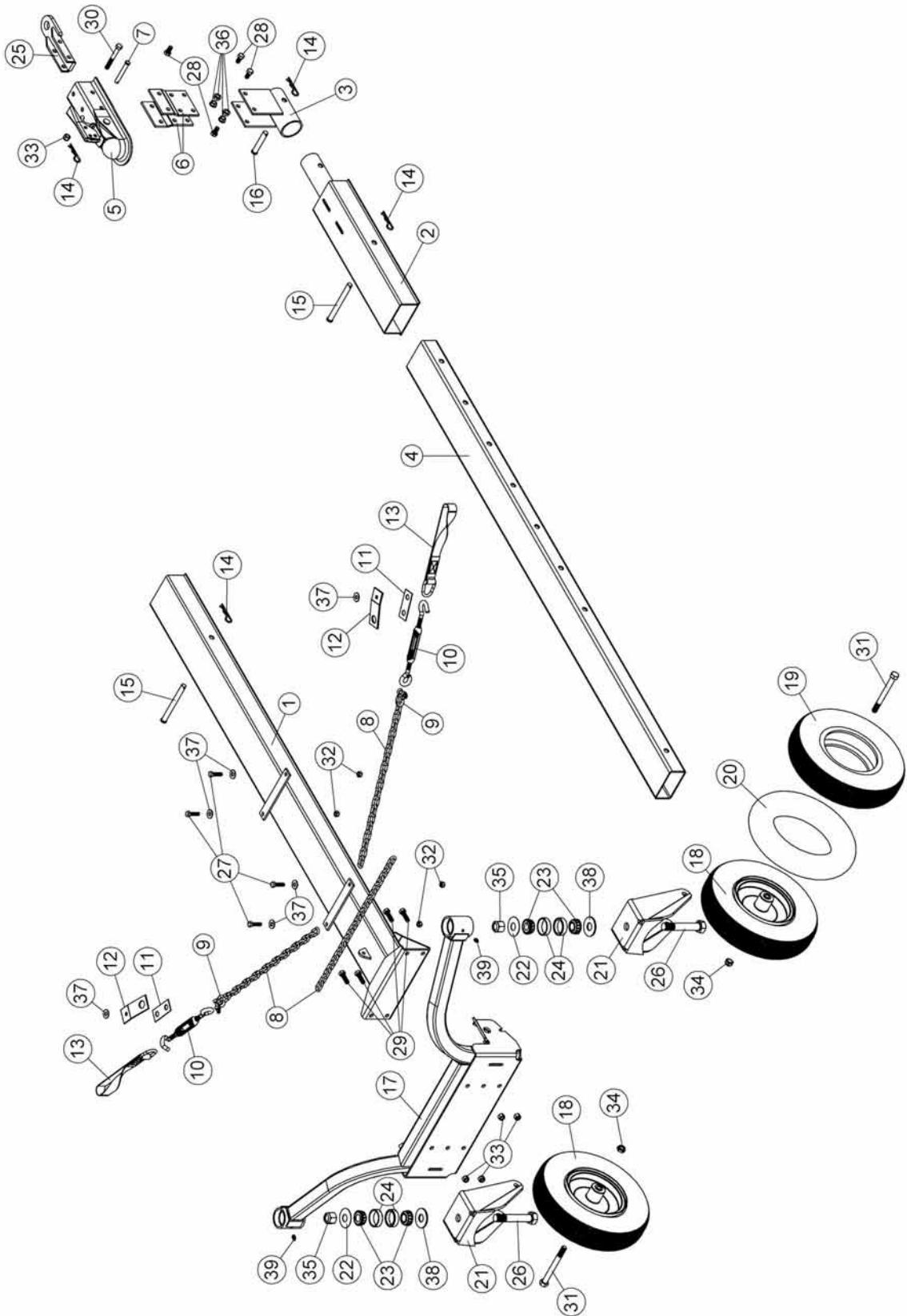
O/L = Obtain Locally

PARTS LIST ROTARY BROOM

Ref. Réf.	English description	Description française	Qty. Qté.	Part # Pièce #
137	Lock washer 3/8"	Rondelle de blocage 3/8"	3	O/L
138	Hex. bolt 3/8" n.c. x 1"	Boulon hex. 3/8" n.c. x 1"	2	O/L
139	Nylon insert lock nut 3/8" n.c.	Écrou à garniture de nylon 3/8" n.c.	18	O/L
140	Hex. nut 3/8" n.c.	Écrou hex. 3/8" n.c.	1	O/L
141	Nylon insert lock nut 1/4" n.c.	Écrou a garniture de nylon 1/4" n.c.	1	O/L
142	Nylon insert lock nut 1/4" n.c. (thin)	Écrou à garniture de nylon 1/4" n.c.(mince)	9	O/L
143	Nylon insert lock nut 5/16" n.c.	Écrou à garniture de nylon 5/16" n.c.	10	O/L
144	Nylon Insert lock Nut 1/2" n.c.	Écrou à garniture de nylon 1/2" n.c.	4	O/L
145	Nylon insert lock nut 3/4" n.c. (thin)	Écrou à garniture de nylon 3/4" n.c.(mince)	3	O/L
146	Flange nut 1/4" n.c.	Écrou à bride 1/4" n.c.	5	O/L
147	Flange nut 5/16" n.c.	Écrou à bride 5/16" n.c.	12	O/L
148	Flange nut 3/8" n.c.	Écrou à bride 3/8" n.c.	4	O/L
149	Hex. socket set screw 5/16" n.c. x 5/16"	Vis à pression hex. 5/16" n.c. x 5/16"	2	O/L
150	Metal screw pan head #8 x 1/4"	Vis à métal tête pan #8 x 1/4"	2	O/L
151	Grease fitting 1/4" n.f.	Graisseur 1/4" n.f.	3	O/L
152	Tie wrap 8"	Attache de nylon 8"	6	O/L
153	Berco decal	Décalque Berco	1	103785
154	Decal danger belts	Decalque danger courroies	1	105128
155	Decal read instructions	Decalque lire instructions	1	105130
156	Decal warning safety	Decalque avertissement sécurité	1	105131
157	Control decal	Décalque contrôle	1	106048
158	Decal danger start/clutch	Décalque danger démarrage/embrayage	1	105396
159	Decal danger broom	Decalque danger balai	1	105997
160	Specifications decal	Décalque spécifications	1	REF
161	Serial number	Numéro de série	1	REF
162	Made in Canada decal	Décalque Fabriqué au Canada	1	REF

O/L = Obtain Locally

PARTS BREAKDOWN SUBFRAME



PARTS LIST SUBFRAME

Ref. Réf.	English description	Description française	Qty. Qté.	Part # Pièce #
1	Subframe	Sous-châssis	1	104957
2	Rear bracket	Fixation arrière	1	104956
3	Hitch support	Support d'attache	1	104958
4	Adjustment tube	Tube d'ajustement	1	104959
5	Hitch	Attache	1	104639
6	Hitch support plate	Plaque de support d'attache	2	104641
7	Pin	Goupille	1	104642
8	Chain	Chaîne	3	105999
9	Shackle Ptd Z	Clevis Pqé Z	2	102343
10	Turnbuckle	Tendeur	2	104634
11	Bracket	Fixation	2	104632
12	Bracket	Fixation	2	105194
13	Lift strap	Sangle de relevage	2	103613
14	Hair pin 3mm	Goupille à ressort 3mm	4	102617
15	Pin	Goupille	2	104961
16	Pin	Goupille	1	104999
17	Wheel support	Support de roue	1	106000
18	Wheel	Roue	2	105496
19	Tire 410/350-6	Pneu 410/350-6	1	105497
20	Inner tube 350-6	Chambre à air 350-6	1	105498
21	Wheel fork	Fourche de roue	2	105499
22	Seal washer	Rondelle d'étanchéité	2	102289
23	Cone bearing	Roulement conique	4	102369
24	Cup for bearing	Cuvette	4	102370
25	Hitch ball support	Support de boule d'attache	1	106214

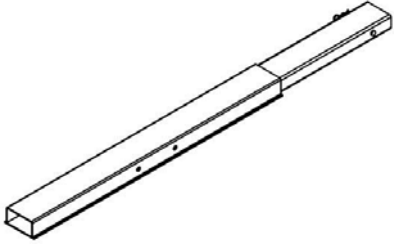
O/L = Obtain Locally

PARTS LIST SUBFRAME

Ref. Réf.	English description	Description française	Qty. Qté.	Part # Pièce #
26	Rod	Tige	2	106272
27	Hex. bolt 5/16" n.c. x 1 1/4"	Boulon hex. 5/16" n.c. x 1 1/4"	4	O/L
28	Hex. bolt 3/8" n.c. x 3/4"	Boulon hex. 3/8" n.c. x 3/4"	4	O/L
29	Hex. bolt 3/8" n.c. x 1 1/4"	Boulon hex. 3/8" n.c. x 1 1/4"	4	O/L
30	Hex. bolt 3/8" n.c. x 3"	Boulon hex. 3/8" n.c. x 3"	1	O/L
31	Hex. bolt 1/2" n.c. x 5"	Boulon hex. 1/2" n.c. x 5"	2	O/L
32	Nylon insert lock nut 5/16" n.c.	Écrou à garniture de nylon 5/16" n.c.	4	O/L
33	Nylon insert lock nut 3/8" n.c.	Écrou à garniture de nylon 3/8" n.c.	5	O/L
34	Nylon insert lock nut 1/2" n.c. (thin)	Écrou à garniture de nylon 1/2" n.c. (mince)	2	O/L
35	Nylon Insert lock Nut 3/4" n.c.	Écrou à garniture de nylon 3/4" n.c.	2	O/L
36	Flange nut 3/8" n.c.	Écrou à bride 3/8" n.c.	4	O/L
37	Flat washer 3/8" hole	Rondelle plate 3/8" trou	6	O/L
38	Flat washer 13/16" hole	Rondelle plate 13/16" trou	2	O/L
39	Grease fitting 1/4" n.f.	Graisser 1/4" n.f.	2	O/L

O/L = Obtain Locally

ATTACHMENTS



SUBFRAME EXTENSION

#700485
For bigger vehicle



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