



# OPERATION & MAINTENANCE

# BBA84P

Skid Steer Broom Attachment



[www.brocebroom.com](http://www.brocebroom.com)



## Broce Manufacturing Company, Inc. WARRANTY REGISTRATION

### Purchased From (Dealership)

Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Delivery Date to Dealer: \_\_\_\_/\_\_\_\_/\_\_\_\_ Unit Hours: \_\_\_\_\_  
Model Number: \_\_\_\_\_ Serial Number: \_\_\_\_\_

### Purchaser

Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Delivery Date to Dealer: \_\_\_\_/\_\_\_\_/\_\_\_\_ Unit Hours: \_\_\_\_\_

### Purchaser - Type of Business

|                      |              |                    |  |
|----------------------|--------------|--------------------|--|
| Construction/Highway | Rental       | Asphalt Contractor |  |
| Equipment Dealer     | Municipality | Other              |  |

1. *The Purchaser has been instructed and/or has read the manual and understands proper preventive maintenance, operation and safety precautions.*
2. *The Warranty and Limitations of Liability are found in the Warranty pages enclosed in the Parts and Operators Manuals.*
3. *Broce Manufacturing Co. Inc. reserves the right to make design changes or modifications to Broce products at any time without incurring any obligation to make similar changes or modifications to previously sold units.*
4. *If this Document is not signed and returned to Broce Manufacturing Co. Inc., the warranty begins at the date of delivery to the Dealership.*

**I hereby acknowledge acceptance of above and conditions in the Warranty Policy**

Purchaser/Owner: \_\_\_\_\_

Dealer Representative: \_\_\_\_\_

**Broce Manufacturing Co. Inc.**  
201 West Oklahoma  
Fairview, OK 73737  
(580) 227-3711



# **BROCE MANUFACTURING COMPANY**

## **BROCE BROOM LIMITED TWELVE-MONTH WARRANTY**

For a period of twelve (12) months or 1,000 hours whichever comes first, from the date of delivery of product to the original user, Broce Manufacturing of Dodge City, Kansas warrants each product to be free from manufacturing defects, subject to the limitations contained in this policy. This limited warranty covers parts and labor.

This warranty does not apply to defect caused, in whole or in part, by unreasonable use while in the possession of the user, including, but not limited to, failure to properly set up product, failure to provide reasonable and necessary maintenance, normal wear, routine tune ups or adjustments, improper handling, accidents, operation at speed or load conditions contrary to published specifications, improper or insufficient lubrication, or improper storage. This warranty is not a guarantee that the performance of each product will meet the expectations of the purchaser.

Broce Manufacturing shall not be liable for consequential damage of any kind, including, but not limited to: consequential labor costs or transportation charges in connection with the replacement or repair of defective parts, lost time or expense which may have accrued because of said defects. In no event shall Broce Manufacturing's total liability hereunder exceed the product purchase price.

Many components used by Broce Manufacturing are subject to the warranties of their respective manufacturers. These warranties will be considered void if the product is modified or repaired in any way not expressly authorized, or if closed components are disassembled prior to return. Closed components include, but are not limited to gearboxes, hydraulic pumps, motors, cylinders and actuators.

Our obligation under the warranty is expressly limited, at our option, to the replacement or repair at Broce Manufacturing of Dodge City, KS or at a service facility designated by us. We are not responsible for unauthorized repairs or replacements. Any implied or statutory warranties, including any warranty of merchantability or fitness for a particular purpose, are expressly limited to duration of this written warranty. We make no other express warranty. This warranty cannot be extended, broadened, or changed except in writing by an authorized officer of Broce Manufacturing.

**Broce Manufacturing Co. Inc.**  
201 West Oklahoma  
Fairview, OK 73737  
(580) 227-3711



# TABLE OF CONTENTS

|                                        |              |
|----------------------------------------|--------------|
| <u>Safety Precautions .....</u>        | <u>6-7</u>   |
| <u>Attachment Specs .....</u>          | <u>8</u>     |
| <u>Serial Number Location .....</u>    | <u>9</u>     |
| <u>Attachment Operation .....</u>      | <u>10</u>    |
| <u>Adjusting Retention Chain .....</u> | <u>11-13</u> |

## **Maintenance**

|                                        |           |
|----------------------------------------|-----------|
| <u>Lubrication .....</u>               | <u>14</u> |
| <u>Adjusting Core Height .....</u>     | <u>15</u> |
| <u>Broom Wafer Replacement .....</u>   | <u>16</u> |
| <u>Motor Replacement .....</u>         | <u>17</u> |
| <u>Idler Bearing Replacement .....</u> | <u>18</u> |
| <u>Cutting Edge Replacement .....</u>  | <u>19</u> |
| <u>Water System .....</u>              | <u>20</u> |
| <u>Troubleshooting .....</u>           | <u>21</u> |

## **Parts**

|                                             |              |
|---------------------------------------------|--------------|
| <u>Full Assembly .....</u>                  | <u>23</u>    |
| <u>Cover Assembly .....</u>                 | <u>24</u>    |
| <u>Lever Arm Assembly- Left Hand .....</u>  | <u>25</u>    |
| <u>Lever Arm Assembly- Right Hand .....</u> | <u>26</u>    |
| <u>Broom Core Assembly .....</u>            | <u>27</u>    |
| <u>Water System .....</u>                   | <u>28</u>    |
| <u>Electrical .....</u>                     | <u>29</u>    |
| <u>Hydraulic Diagram .....</u>              | <u>30</u>    |
| <u>Valve Breakdown .....</u>                | <u>31</u>    |
| <u>Decals .....</u>                         | <u>32-33</u> |

|                                     |           |
|-------------------------------------|-----------|
| <u>Service Parts to Stock .....</u> | <u>34</u> |
| <u>Notes .....</u>                  | <u>35</u> |



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## SAFETY PRECAUTIONS

# DANGER



### MISUSE, OPERATION OR MAINTENANCE BY AN UNAUTHORIZED PERSON COULD LEAD TO SERIOUS INJURY OR DEATH

Operation of this equipment shall be limited to a competent and experienced person. In addition, anyone who will operate or work around this equipment must use good common sense. In order to be qualified, he or she must also know and meet all other requirements, such as:

1. Some regulation specify that no one under the age of 16 may operate powermachinery. It is your responsibility to know what these regulations are in your area or situation.
2. Current OSHA regulations state in part: "At the time of initial assignment and at least annually thereafter, the employer shall instruct **EVERY** employee in the safe operation of servicing of all equipment with which the employee is or will be involved."
3. Unqualified person must **STAY OUT** of the work area.
4. A person who has not read and understood all operating and safety instructions is not qualified to operate the machinery.
5. While machine is in operation, there should be no bystanders within 15 to 20 feet of the machine.
6. Absolutely **NO RIDERS** on the attachment.

**FAILURE TO READ THIS MANUAL AND IT'S SAFETY INSTRUCTIONS IS A  
MISUSE OF THE EQUIPMENT AND WILL VOID FACTORY WARRANTY.**



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**BBA84P**

# SAFETY PRECAUTIONS

## Entering and Exiting the Operator's Position

Only Enter or Exit the skid steer/loader where proper handholds and steps are available. Inspect the handholds and step for any damage prior to use and perform repairs when necessary. Keep all handholds and steps clean to avoid serious injury.

Maintain 3 contact points with the skid steer/loader and attachment when entering and exiting the operator's position. Face the skid steer/loader when entering and exiting the operator's position.

NEVER enter, exit, climb, or jump on a moving or operating attachment.

## Maintenance Shutdown Procedure

**ALWAYS** perform the "Maintenance Shutdown Procedure" **BEFORE** adjusting, lubricating, cleaning, or servicing the attachment. See below for the "Maintenance Shutdown Procedure".

1. Lower the boom arm and rotate the attachment until the bucket contacts the ground and sits flat.

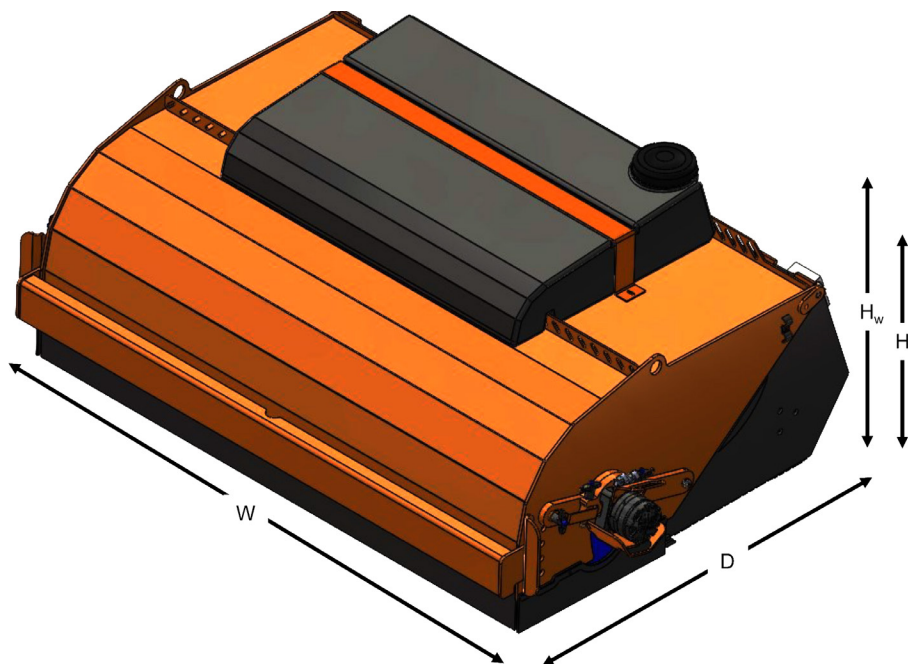


2. Apply the parking brake, turn off the skid steer/loader engine, and remove the key from the ignition. **DO NOT** reinsert the key into the ignition until any required maintenance or adjustment is complete.
3. Relieve the pressure in the hydraulic lines by actuating the skid steer/loaders boom controls. NOTE: reference the skid steer/loader's manual for exact pressure relieving methods.
4. Disconnect the attachment's hydraulic lines from the skid steer/loader.



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# ATTACHMENT SPECIFICATIONS



| BBA84P                                             |           |
|----------------------------------------------------|-----------|
| Brush Width                                        | 84"       |
| Overall Width (W)                                  | 96.74"    |
| Overall Depth (D)                                  | 60.57"    |
| Standard Package Overall Height (H)                | 25.76"    |
| Standard Package Weight (lb <sub>s</sub> )         | 1550 lb   |
| Wafer Diameter                                     | 24"       |
| Input Flow Range                                   | 12-30 GPM |
| Operating Pressure                                 | 3000 PSI  |
| Water System                                       | Optional  |
| Weight with Full Water System (lb <sub>w</sub> )   | 1920 lb   |
| Overall Height with Water System (H <sub>w</sub> ) | 33.67"    |

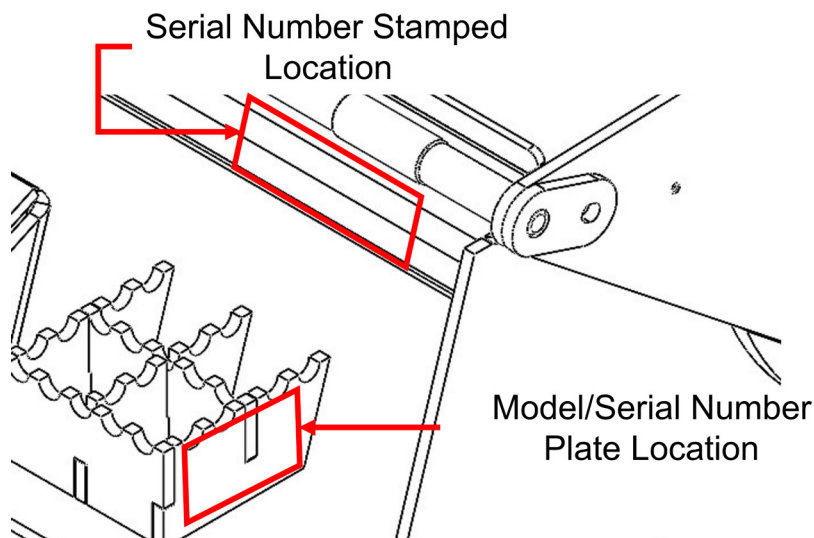


**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**BBA84P**

## SERIAL NUMBER LOCATION

The model/serial number plate is located on the right-hand side of the step. If the model/serial plate cannot be read, the serial number is stamped on the back side of the bucket cross-member directly above the step. See the image below for more details.



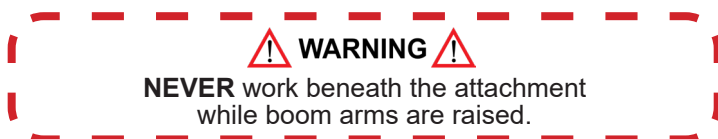
**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# ATTACHMENT OPERATION

## Setup and Pre-use checks

Before operating the attachment, perform the following “Pre-use Checks.”

1. Ensure all safety decals are legible and free of excessive damage.
2. Check all hydraulic hoses and adapters for leaks and ensure they are tight.
3. Inspect all hydraulic hoses for damage or kinks. Hoses should be free to move during operation and dumping.
4. If the unit has an optional water system, check the wiring and water hose for potential catching or kinking.



## Coupling the Attachment to a Skid Steer

1. Start the skid steer/loader engine, retract the attachment pins, and roll the coupler forward.
2. Center the skid steer/loader to the attachment and hook the coupler to the upper attachment strip. Roll the coupler backward and lift the attachment off the ground.
3. Actuate the attachment pins, ensuring the pins are completely engaged. Reference the skid steer/loader operations manual for more detail.

## Connecting the Hydraulic Couplers

1. Perform the first three steps of the “Maintenance Shutdown Procedure” found on page 7 before connecting the hydraulic hoses to the skid steer/loader.
2. Inspect the hydraulic couplers for debris or damage prior to connecting the hoses. Clean or replace the couplers if necessary.
3. Press the couplers onto their corresponding couplers on the skid steer/loader. There should be an audible click when properly engaged.
4. Pull on the couplers to ensure they are properly connected.
5. Slowly roll the bucket back to check for interference between the hydraulic couplers and the bucket.
6. If the coupler interferes with the attachment, replace the coupler and straight adapter with the included stubby coupler and 90-degree adapter.



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

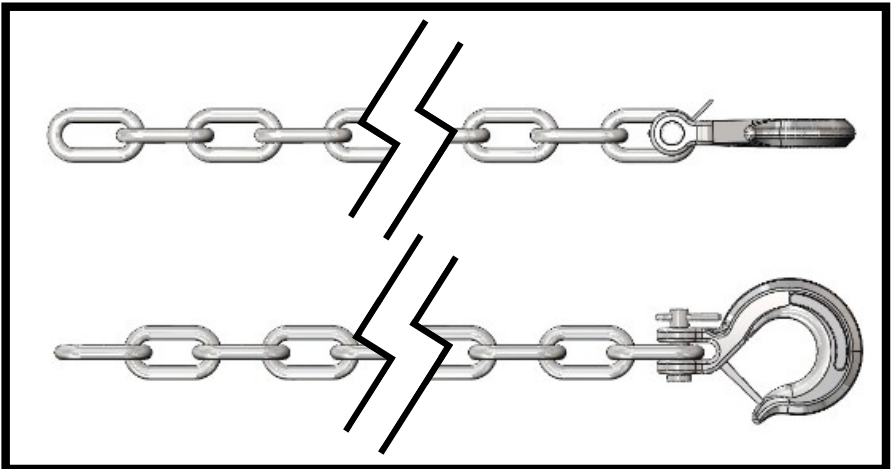
## ADJUSTING THE COVER RETENTION CHAINS

This attachment was designed to be used with “Cover Retention Chains.” The purpose of the chains is to allow the bucket to be dumped independently of the cover. Reference the following for proper chain adjustment.

### **WARNING**

**Failure to properly adjust the retention chains can result in damage to the attachment. This adjustment must be performed if the skid steer/loader has changed between adjustments.**

1. **ALWAYS** begin by performing the “Maintenance Shutdown Procedure” found on page 7.
2. **ALWAYS** start the adjustment process with one (1) safety hook installed on each chain, as shown below.



3. Hook each chain to a secure location on the skid steer/loader’s boom arm.

### **CAUTION**

**ALWAYS** perform step 3 independently for each chain assembly. The chain assembly lengths may differ depending on the chain mounting location on the skid steer/loader.



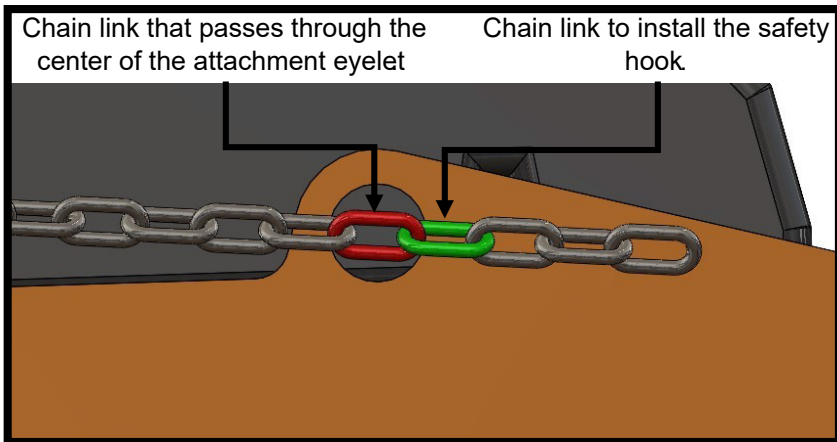
**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## ADJUSTING THE COVER RETENTION CHAINS

4. Pull the chain tight toward the attachment chain eyelet. Mark the link that reaches the center of the eyelet, move one (1) link down the chain from the marked link, and install the safety hook. Attach the chain to the attachment chain eyelet. See the image below for more details.

### **WARNING**

Failure to securely fasten the chain to either the loader or attachment could result in the chain slipping and could cause damage to the unit or serious injury.



### **WARNING**

Failure to securely fasten the chain to either the loader or attachment could result in the chain slipping and could cause damage to the unit or serious injury.



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**BBA84P**

## ADJUSTING THE COVER RETENTION CHAINS

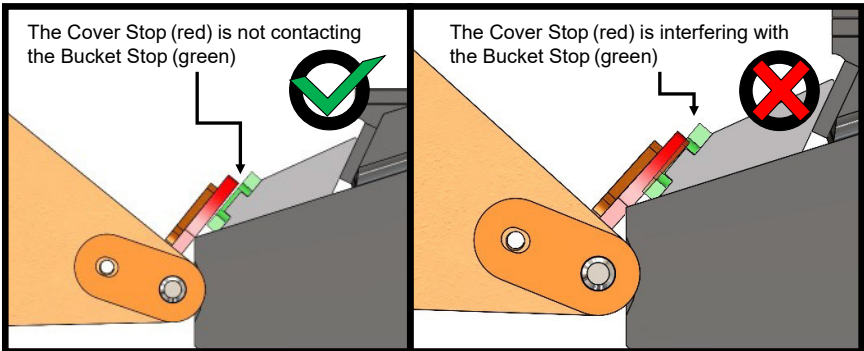
5. Start the skid steer/loader's engine, raise the boom arm, and slowly roll the bucket forward into the dumping position.

### ⚠ CAUTION ⚠

While rolling the bucket into the dumping position, ensure the cover stop does not collide with the bucket stop. Longer chains may be required if the cover stop contacts the bucket stop before reaching the desired dumping position. **NEVER** use chains that are too short.

Failure to use the correct chain length could result in damage to the attachment.

See the image below for more detail.



### ⚠ CAUTION ⚠

If the mounting location on the skid steer/loader results in a low chain angle, relative to the cover, the chain could wrap around the bucket during dumping potentially damaging the attachment. In this case, shorten the chain until it no longer contacts the bucket while dumping.

### ⚠ CAUTION ⚠

Shortening the chains in excess can result in damage to the cover during the dumping operation.

Take extreme care during the chain adjustment process to properly set the chain length.

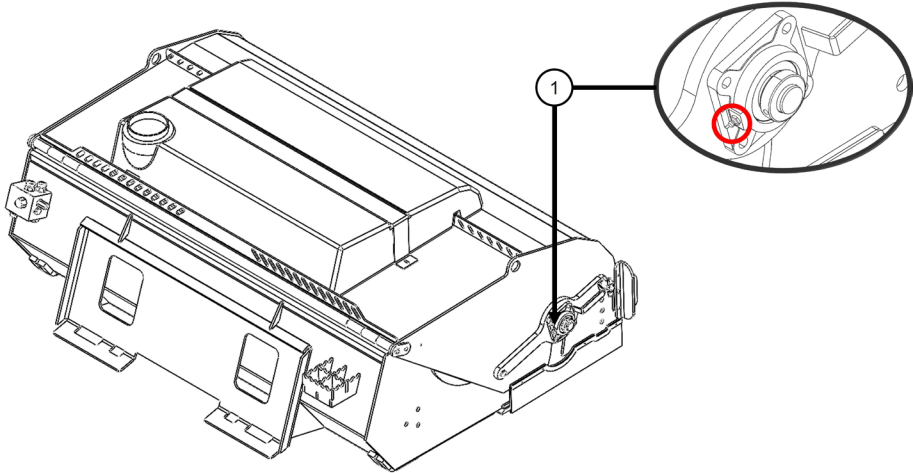
6. If the chains need to be adjusted, perform the "Maintenance Shutdown Procedure" found on page 7. Unhook the chain from the skid steer/loader, remove the hook pin, and relocate the hook by one chain link until the desired chain length is acquired.



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## MAINTENANCE (LUBRICATION)

The attachment has one grease zerk shown in the image below.



This is a sealed bearing and may require no lubrication throughout its service life. However, no more than two strokes of grease at 200-hour intervals are recommended if lubrication is deemed necessary. Seals are often destroyed by over-greasing sealed bearings. Preform the “Maintenance Shutdown Procedure” found on page 7 before greasing.

**NOTE:** The average grease gun outputs 0.025 - 0.035 ounces per stroke.



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**BBA84P**

## MAINTENANCE (ADJUSTING CORE HEIGHT)

### Checking and Adjusting the Core Height

The five adjustment holes on the cover assembly's side plate control the core height.

The contact patch with the ground should be around 6.5 inches with a new wafer kit.

As the wafers wear, the contact patch will decrease. Once the contact patch decreases to a point where the attachment is unable to perform adequately, the core height must be adjusted.

To adjust the core height:

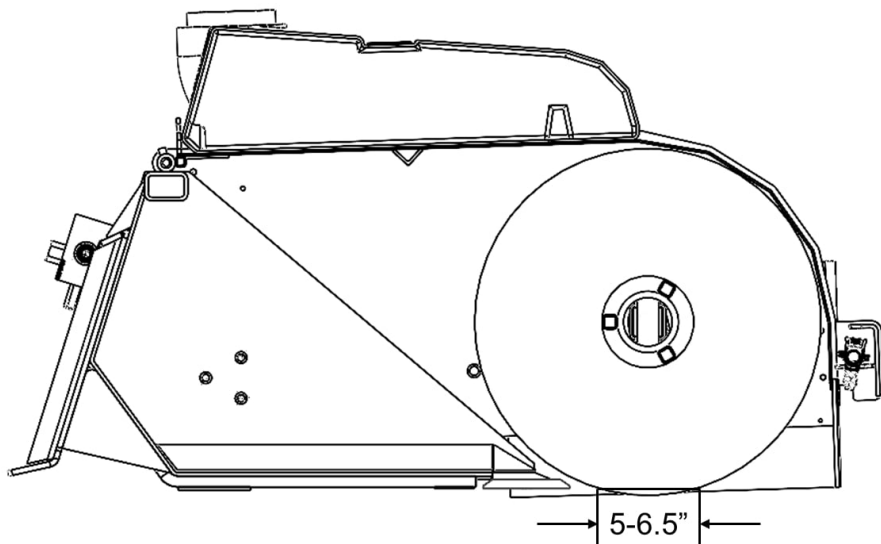
1. Depress the core adjustment pins' detent button and pull the pins out of the lever arms.
2. Lower the lever arms to the next available core adjustment hole on the cover side plate and pin the lever arms into place.



**WARNING**



Ensure the core adjustment pin detent button is fully extended and locked after pinning the lever arm into position. Failure to lock the core pins can result in damage to the attachment and possible injury.



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# MAINTENANCE

## (BROOM WAFER REPLACEMENT)

### Wafer Maintenance

The Broce Broom Attachment line uses a 6 3/8" x 24" convoluted wafer. See the table below for wafer quantities for 84 inch core.

| Core Length (in) | Number of Wafers Required |
|------------------|---------------------------|
| 84               | 46                        |



### IMPORTANT



Replacement wafer kits can be ordered from Broce Manufacturing at [www.brocebroomparts.com](http://www.brocebroomparts.com) or call 1-580-227-3711.

### Removing the Broom Core

1. Lower the feet to the lowest pin position, then lower the boom arm and rotate the attachment until the feet and lower edge of the attachment plate contact the ground.
2. Perform the "Maintenance Shutdown Procedure" found on page 7.
3. Use an hex wrench to loosen the set screw on the idler-bearing lock ring.
4. Use a punch and hammer to turn the idler-bearing lock ring clockwise until the ring is loose.
5. Remove the two (2) forwardmost bolts from the bumper and loosen the two (2) rear bumper bolts to allow the bumper to hinge up out of the way.
6. Remove the remaining three (3) bolts from the motor mounting plate and put the motor and mount aside. **DO NOT REMOVE THE MOTOR FROM THE MOTOR MOUNT OR DISCONNECT THE HYDRAULIC HOSES FROM THE MOTOR.**
7. Pull the core from the motor side until the core is removed from the bearing. Set the core aside to change the brush wafers. See "Replacing the Brush Wafers" for proper wafer replacement instructions.
8. Remove the remaining three (3) bolts from the idler-bearing mounting plate and set aside for broom core reinstallation.



### IMPORTANT



See page 27 for specific wafer kit ordering information.

### Replacing the Brush Wafers

1. Rotate the broom core onto its motor side end.
2. Remove the 3 bolts holding on the idler assembly and remove the idler.
3. Remove each wafer by sliding them off the core.
4. Before installing new wafers, ensure the broom core is free of damage.
5. Install the wafers one at a time, clocking each 120° offset from the last wafer. A "diamond-shaped" opening should be visible when wafers are properly installed. See the image below for more details.
6. Reinstall the idler assembly.

"Diamond-Shaped Opening"



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**BBA84P**

# MAINTENANCE

## (MOTOR REPLACEMENT)

### Motor Replacement

In the case of motor failure, perform the following steps to replace the hydraulic motor.

1. Perform the "Maintenance Shutdown Procedure" stated on page 7.
2. Depress the motor mounting pin plungers and pull both pins upwards to unlock the motor from the core lever arm.
3. Use the integrated handles on the motor to pull the motor out of the core.
4. Use an hex wrench to remove the 4 hex head bolts attaching the motor to the motor spacer assembly, remove the upper handle, and the motor.
5. Use an hex key to remove the set screw from the square drive on the motor's shaft.
6. Carefully slide the square drive off the motor shaft. When the square drive is removed, the motor shaft key will fall out of the retention slot. **DO NOT** lose the motor shaft key. Failure to reinstall the key could result in damage to the attachment.
7. Reinstall the motor shaft key, square drive, and set screw to the new motor. **ALWAYS** add a red thread locker to the square drive set screw.
8. Slide the motor into the motor spacer assembly and install the lower 2 hex bolts to hold it in place.
9. Install the upper handle and the remaining hex bolts.
10. Use the hex wrench to tighten all 4 motor bolts.



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# MAINTENANCE

## (IDLER BEARING REPLACEMENT)

### Idler Bearing Replacement

In the case of idler bearing failure, perform the following steps to replace the idler bearing.

1. Perform the "Maintenance Shutdown Procedure" found on page 7.
2. Use an hex wrench to loosen the set screw on the idler-bearing lock ring.
3. Use a punch and hammer to turn the idler-bearing lock ring counterclockwise until the ring can be removed.
4. Use an hex wrench to remove the shoulder bolt the idler arm rotates about.
5. Depress the core adjustment pin plunger on the idler-bearing side and remove the pin from the core adjustment arm.
6. Pull the core adjustment arm outwards until it is free.
7. Remove the 4 bolts attaching the idler bearing to the core adjustment arm.
8. Install the new bearing onto the core adjustment arm.
9. Slide the bearing onto the idler shaft and reinstall the shoulder bolt and core adjustment pin.



**WARNING**



**ALWAYS use threaded locker when reinstalling a shoulder bolt.**



**WARNING**



**Ensure the core adjustment pin detent button is fully extended and locked after pinning the lever arm into position. Failure to lock the core adjustment pins can result in damage to the attachment and possible injury.**

10. Slide the idler-bearing lock ring onto the idler shaft and use a hammer and punch to turn the lock ring clockwise until it is tight.
11. Tighten the lock ring set screw.



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**BBA84P**

# MAINTENANCE

## (CUTTING EDGE REPLACEMENT)

### Cutting Edge Replacement

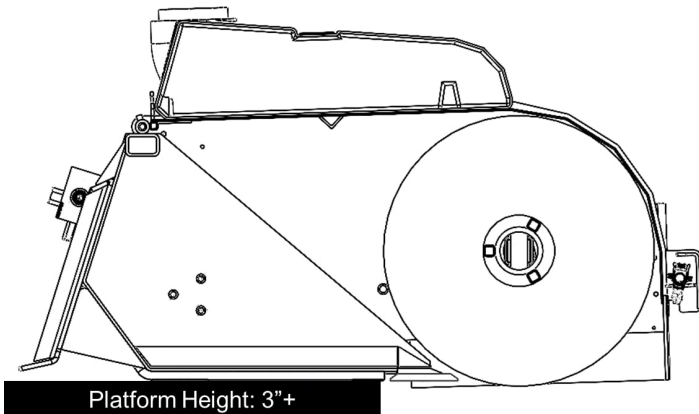
The Broce Broom Pickup-Broom Attachments come standard with a double-sided bolt-on cutting edge to double the lifespan of the cutting edge.

When one side of the cutting edge has been worn to a point that warrants replacement, the blade can be removed, rotated 180°, and reinstalled.

After both sides of the bolt-on cutting edge have been worn out, the cutting edge should be replaced.

To replace the bolt-on cutting edge, follow the steps below.

1. Place a platform at least 3" tall (such as a pallet) on the ground to place the attachment. Ensure the platform is where a hoist or other adequate lifting device can access the attachment.
2. Lower the attachment onto the platform, ensuring the cutting edge is not placed on the platform. See the image below.



3. Perform steps 2-4 of the "Maintenance Shutdown Procedure" found on page 7.
4. Use a hoist or other adequate lifting device to lift the cover off the bucket's cover stops.



**WARNING**



**Ensure the cover is adequately secured while lifted off the bucket's cover stops. Failure to do so can result in serious injury or death.**

5. Use an impact to remove the plow bolt nuts.
6. Reinstall the new cutting-edge and new hardware.



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## MAINTENANCE (WATER SYSTEM)

### Water System Maintenance

The 40-gallon water system is an optional add-on and requires daily maintenance.

Check water system filters, nozzle screens, and cycle system daily.

Ensure the system is drained during storage or freezing weather.



**CAUTION**



**Failure to drain the water system can result in damage to the system.**

To drain the water system, unscrew the strainer cap, allowing water to drain out of the tank.



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**BBA84P**

# MAINTENANCE (TROUBLESHOOTING)

| PROBLEM                    | PROBABLE CAUSE                                                                                                                                 | SOLUTION                                                                                                                                                                       |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Core motor shaft seal leak | <ol style="list-style-type: none"> <li>1. String line wrapped around shaft</li> <li>2. Excessive down pressure (Too much side load)</li> </ol> | <ol style="list-style-type: none"> <li>1. Remove string line and reseal motor</li> <li>2. Reseal motor. Instruct operator to use down pressure only when necessary.</li> </ol> |
| Core motor shaft broken    | <ol style="list-style-type: none"> <li>1. Excessive down pressure (Too much side load)</li> </ol>                                              | <ol style="list-style-type: none"> <li>1. Replace motor. Instruct operator to use down pressure only when necessary.</li> </ol>                                                |
| Brush is Stalled           | <ol style="list-style-type: none"> <li>1. Flow from Skid Steer is Backwards</li> <li>2. Valve pressure relief set to low</li> </ol>            | <ol style="list-style-type: none"> <li>1. Reverse flow</li> <li>2. Call customer service for pressure setting</li> </ol>                                                       |



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# SERVICE PARTS

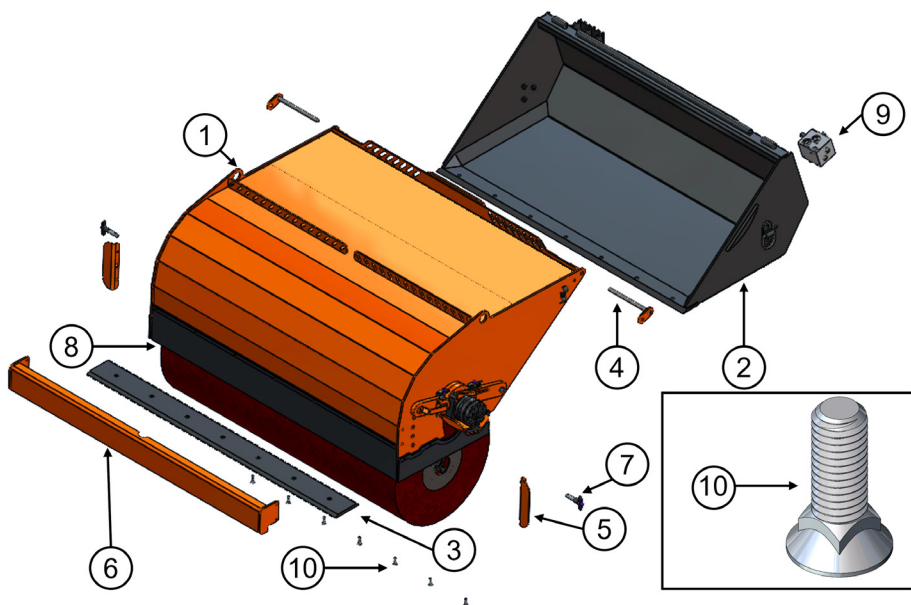


**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**BBA84P**

# PARTS

## (FULL ASSEMBLY BREAK DOWN)

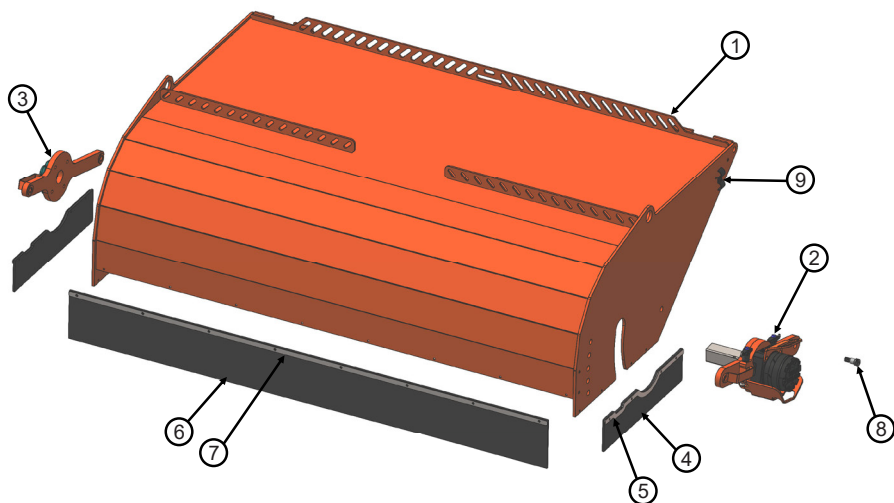


| ITEM #           | PARTS # | DESCRIPTION                        | QTY.     |
|------------------|---------|------------------------------------|----------|
| 1                | N/S     | See "Cover Assembly"               | 1        |
| 2                | 800416  | 84" Straight bend Bucket Assembly  | 1        |
| 3                | 200448  | 84" PUB Standard Bolt-on Blade     | 1        |
| N/S              | 200449  | 84" Carbide Bolt-on Blade          | Optional |
| 4                | 391151  | Hinge Pin Assembly                 | 2        |
| 5                | 391172  | Core Adjustment Pin Guard          | 2        |
| 6                | 800410  | 84" PUB Bumper Assembly            | 1        |
| 7                | 391104  | Core Adjustment Pin Guard          | 2        |
| 8                | N/S     | See "Core Assembly"                | 1        |
| 9                | 391101  | Attachment Valve w/o Angle Control | 1        |
| 10               | 402504  | 1.5-13 x 1.5 Plow Bolt             | 7        |
| N/S* = Not Shown |         |                                    |          |



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## PARTS (COVER ASSEMBLY)



| ITEM #           | PARTS # | DESCRIPTION                         | QTY. |
|------------------|---------|-------------------------------------|------|
| 1                | 800412  | 84" PUB Brush Cover Assembly        | 1    |
| 2                | N/S     | See "Left-Hand Lever Arm Assembly"  | 1    |
| 3                | N/S     | See "Right-Hand Lever Arm Assembly" | 1    |
| 4                | 391123  | PUB Side Rubber                     | 2    |
| 5                | 200532  | PUB Side Rubber Plate               | 2    |
| 6                | 200450  | 84" PUB Front Rubber                | 1    |
| 7                | 200419F | 84" PUB Front Rubber Plate          | 1    |
| 8                | 402403  | Sholder Bolt                        | 2    |
| 9                | 001397  | Humpty Clamp                        | 1    |
| N/S* = Not Shown |         |                                     |      |

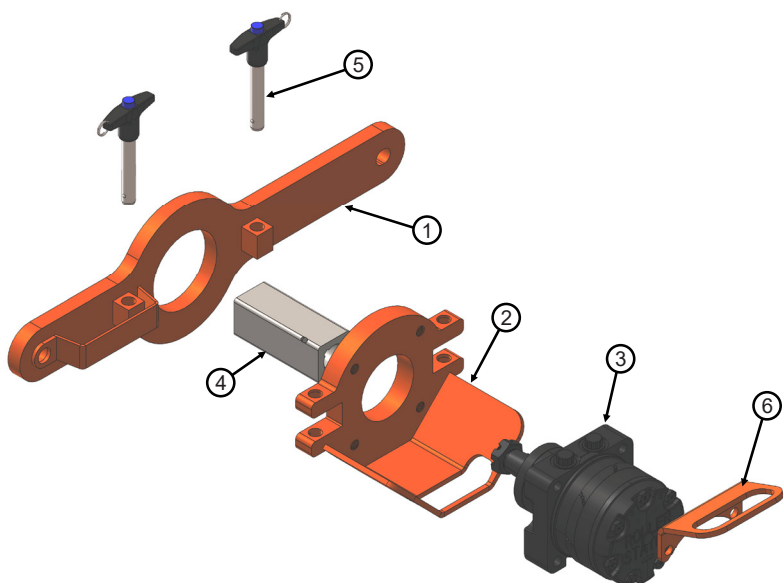


**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**BBA84P**

# PARTS

## (LEFT-HAND LEVER ARM ASSEMBLY)

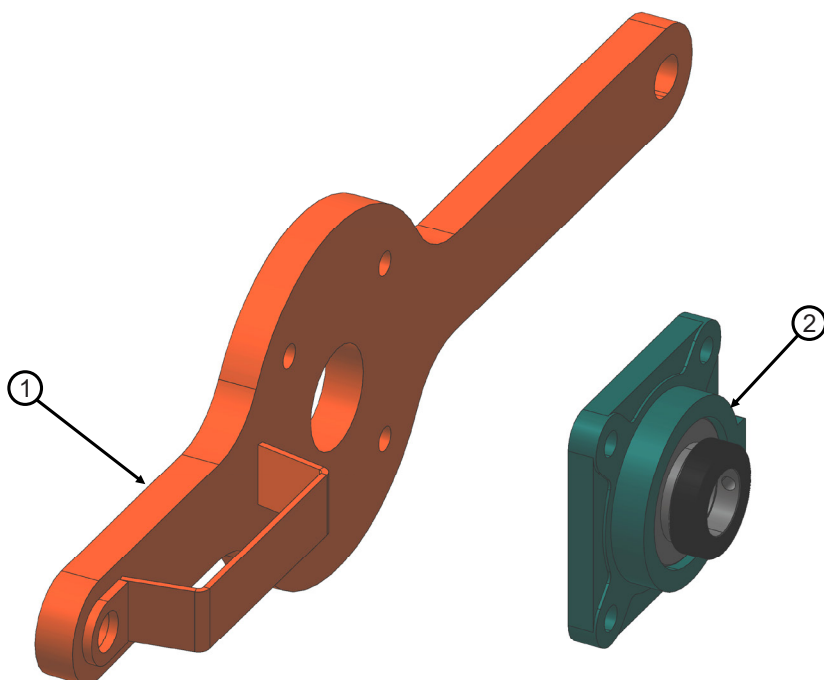


| ITEM # | PARTS # | DESCRIPTION                    | QTY. |
|--------|---------|--------------------------------|------|
| 1      | 391148  | LH Lever Arm Weldment          | 1    |
| 2      | 391121  | PUB Core Motor Spacer Assembly | 1    |
| 3      | 390535  | Core Drive Motor               | 1    |
| 4      | 391108  | PUB Square Drive               | 1    |
| 5      | 391105  | PUB Motor Mount Pin            | 2    |
| 6      | 391156  | PUB Motor Handle/Guard         | 1    |



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# PARTS (RIGHT-HAND LEVER ARM ASSEMBLY)



| ITEM # | PARTS # | DESCRIPTION            | QTY. |
|--------|---------|------------------------|------|
| 1      | 391145  | RH Lever Arm Weldment  | 1    |
| 2      | 320221  | Idler Bearing Assembly | 1    |

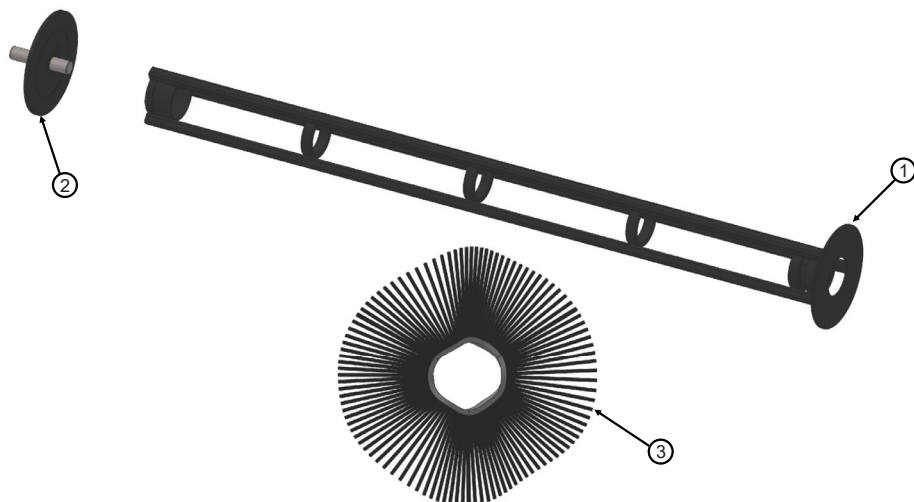


**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**BBA84P**

# PARTS

## (BROOM CORE ASSEMBLY)

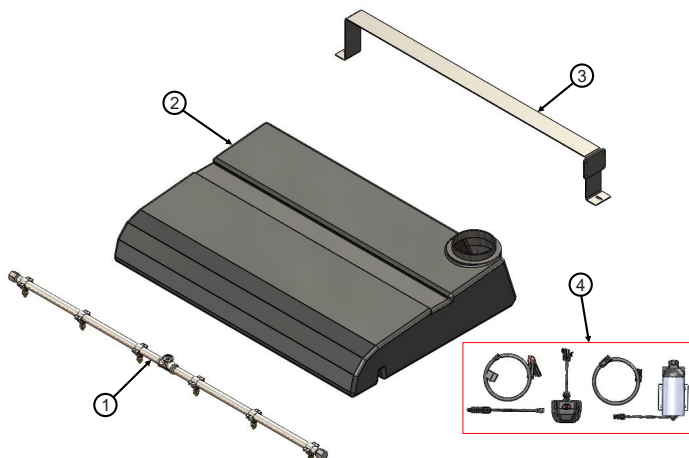


| ITEM # | PARTS # | DESCRIPTION                           | QTY. |
|--------|---------|---------------------------------------|------|
| 1      | 200446  | 84" Broom Core                        | 1    |
| 2      | 391157  | Idler Bearing Assembly                | 1    |
| 3      | 200457  | 24" x 84" Poly Wafer Kit              | 1    |
| 3.1    | 200462  | 24" x 84" 1/2 Wire 1/2 Poly Wafer Kit | 1    |



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## PARTS (WATER SYSTEM)

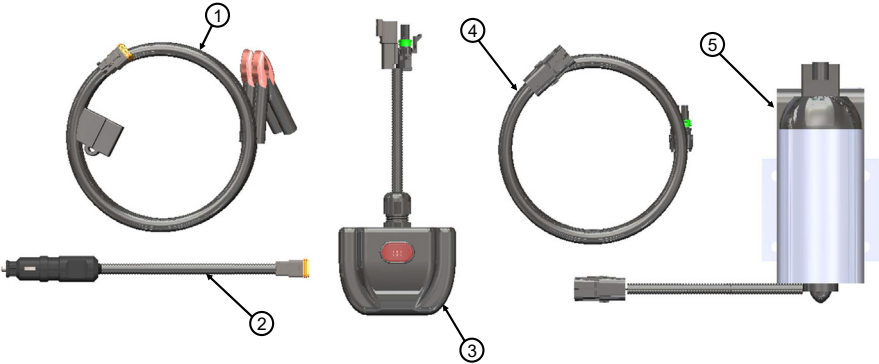


| ITEM #           | PARTS # | DESCRIPTION                              | QTY. |
|------------------|---------|------------------------------------------|------|
| N/S              | 389802  | Strainer (not shown)                     |      |
| N/S              | 389809  | Ball valve (not shown)                   |      |
| N/S              | 389808  | Check Valve (not shown)                  |      |
| 1                | 200425  | Spray Bar Assembly                       | 1    |
| 2                | 800329  | Tank                                     | 1    |
| 3                | 800405  | Tank Strap                               | 1    |
| 4                | N/S     | See "Electrical for Water System"        | 1    |
| N/S              | 389799  | Fitting, ¾ NPT TO ½ Barb 90 DEG          | 1    |
| N/S              | 389798  | Fitting, ¾ NPT TO ½ Barb STRAIGHT        | 2    |
| N/S              | 389810  | Fitting, ½ NPT TO ½ Barb Striaight       | 1    |
| N/S              | 389483  | Fitting, 3/8 NPT TO ½ Barb               | 1    |
| N/S              | 389812  | Nipple, ¾ X 1.5 NPT GALV                 | 1    |
| N/S              | 389811  | Nipple, 3/8 NPT GALV Close STD.          | 1    |
| N/S              | 389813  | Bushing, ¾ NPT TO 3/8 NPT                | 1    |
| N/S              | 514411  | Hose Clamp, SAE 10, ½ TO 1-1/16          | 6    |
| N/S              | 200407  | PUB Water Hose, Tank to Ball Valve       | 1    |
| N/S              | 200408  | PUB WATER HOSE, PUMP TO CHECK VALVE      | 1    |
| N/S              | 200409  | PUB Water Hose, Check Valve to Spray Bar | 1    |
| N/S              | 36392   | .25 - 20 Nylock                          | 4    |
| N/S              | 402030  | .25 - 20 x 1.25 x 2.25 U-bolt            | 2    |
| N/S* = Not Shown |         |                                          |      |



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**PARTS**  
*(ELECTRICAL FOR WATER SYSTEM)*



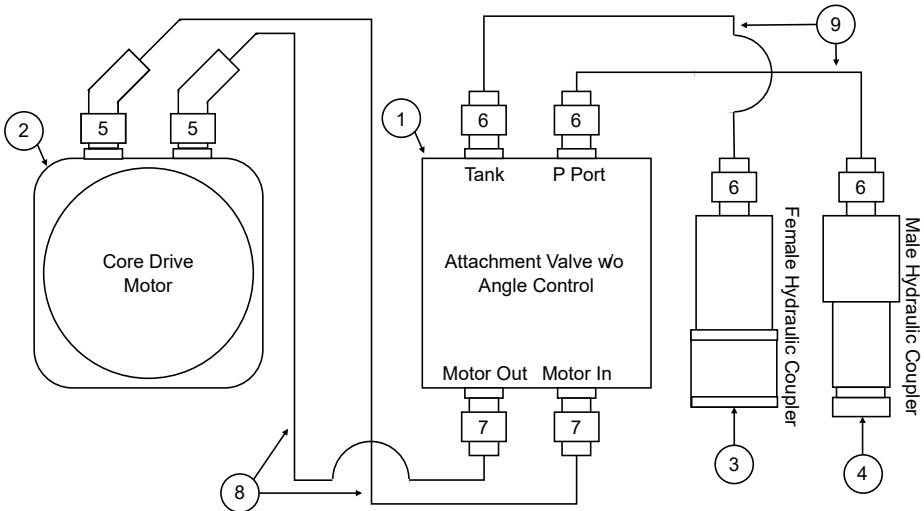
| ITEM # | PARTS # | DESCRIPTION              | QTY. |
|--------|---------|--------------------------|------|
| 1      | 200432  | Power Wire (Battery)     | 1    |
| 2      | 200430  | Power Wire (Cig. Outlet) | 1    |
| 3      | 200436  | Control Box              | 1    |
| 4      | 200434  | Main Wire                | 1    |
| 5      | 200433  | Water Pump               | 1    |



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# SCHEMATICS

## (HYDRAULIC DIAGRAM)



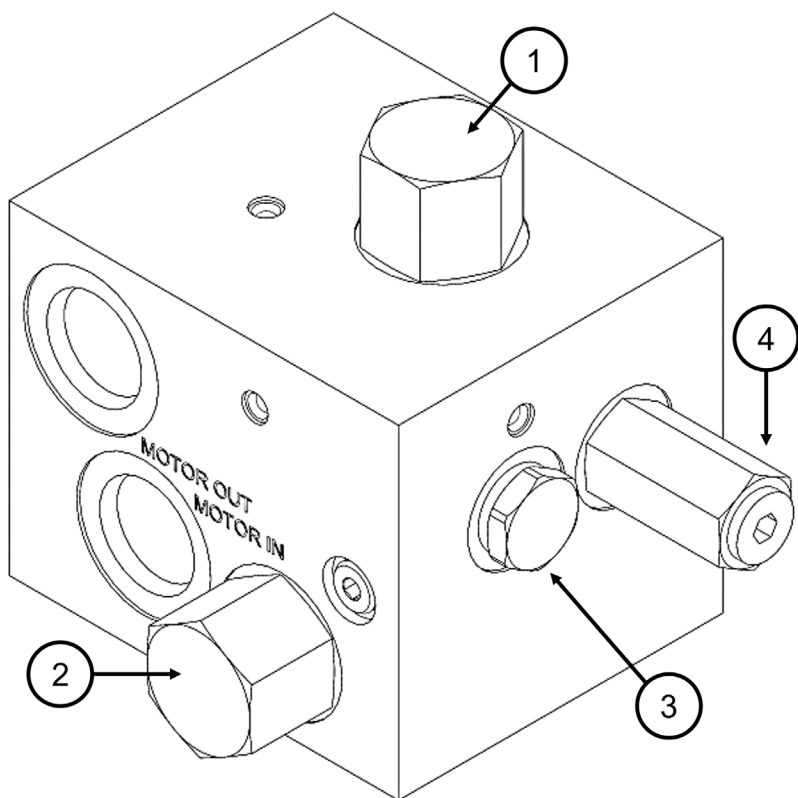
| ITEM #           | PARTS # | DESCRIPTION                                | QTY. |
|------------------|---------|--------------------------------------------|------|
| 1                | 391101  | Attachment Valve w/o Angle Control         | 1    |
| 2                | 390535  | Core Drive Motor                           | 1    |
| 3                | 391107F | Female Hydraulic Coupler                   | 1    |
| 4                | 391107  | Male Hydraulic Coupler                     | 1    |
| 5                | 389826  | Adapter, 10FS-10ORB 45 deg                 | 2    |
| 6                | 390018  | Adapter, 10FS-12ORB STR                    | 2    |
| 7                | 389488  | Adapter, 12FS-12ORB STR                    | 5    |
| 8                | 391199  | PUB Motor In & Out Hose                    | 2    |
| 9                | 391198  | PUB Inlet & Outlet Hose                    | 2    |
| N/S              | 513310  | Adapter, 12 fs - 12 orb 90deg. (not shown) | 1    |
| N/S              | 391180  | Stubby Male Hydraulic Coupler (not shown)  | 1    |
| N/S* = Not Shown |         |                                            |      |



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**BBA84P**

## VALVE BREAKDOWN



| ITEM # | PARTS # | DESCRIPTION        | QTY. |
|--------|---------|--------------------|------|
| 1      | 200555  | Logic Element      | 1    |
| 2      | 200562  | Motor Flow Control | 1    |
| 3      | 200563  | AntiCav Valve      | 1    |
| 4      | 200564  | Relife Valve       | 1    |



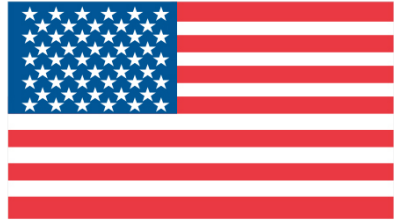
**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# DECALS

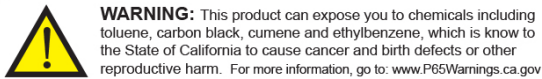
①



②



③



④



⑥



⑦



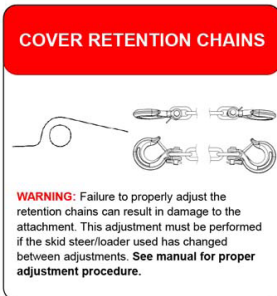
⑧



⑤



⑨



**WARNING:** Cancer and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# DECALS

| ITEM #           | PARTS # | DESCRIPTION                       | QTY. |
|------------------|---------|-----------------------------------|------|
| N/S              | 200486  | BBA84P Decal Kit                  | 1    |
| 1                | 200501  | Safety Decal - Pinch Point Hazard | 2    |
| 2                | 390185  | American Flag                     | 1    |
| 3                | 312095  | Prop 65                           | 1    |
| 4                | 200365  | Swirl Broce Broom Logo Decal      | 2    |
| 5                | 200506  | Safety Decal - Flying Objects     | 2    |
| 6                | 443581  | No Riders                         | 2    |
| 7                | 200508  | BBA84P Front Logo Decal           | 2    |
| 8                | 200507  | BBA84P Side Logo Decal            | 2    |
| 9                | 200505  | Cover Retention Chain Decal       | 2    |
| N/S* = Not Shown |         |                                   |      |



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

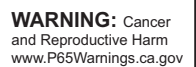
## SERVICE PARTS TO STOCK

| DESCRIPTION                  |
|------------------------------|
| Bolt on blade                |
| Bumper                       |
| Motor                        |
| Motor spacer Assembly        |
| Pin guards                   |
| Idler bearing                |
| 24" wafers                   |
| Core adjustment pin          |
| Motor mounting pin           |
| Front and side rubber skirts |



**WARNING:** Cancer  
and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**BBA84P**

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



### **CALIFORNIA Proposition 65 Warning**

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.  
For more information, visit: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**WARNING:** Battery posts, terminal and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer, birth defects, and other reproductive harm. Wash hands after handling.  
For more information, visit: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**Broce Manufacturing Co.**  
201 W Oklahoma Ave, Fairview, OK 73737  
**Service:** (580) 227-3711  
**Parts:** [www.brocebroomparts.com](http://www.brocebroomparts.com)  
**Email:** [fairviewparts@brocemfg.com](mailto:fairviewparts@brocemfg.com)



#200495 | July 2025