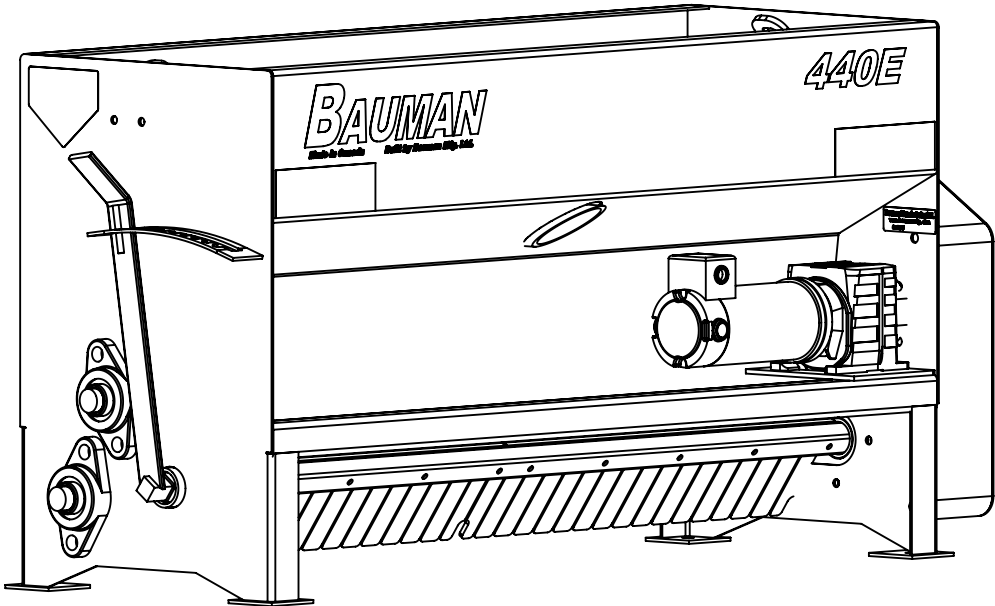


Bauman Manufacturing Limited



440E/440H Sander

Operators Manual



Sold By:



Introduction

Congratulations on your purchase of a Bauman Sidewalk Sander. This sander has been designed and manufactured to enable operators to carry out their work safely and efficiently.

The Bauman Sidewalk Sander has been designed for spreading sand, salt, grit or similar material and should only be used for this purpose. Correct usage of the machine also includes observance of the factory's preparation, operation and maintenance instructions.

This manual will help you understand the proper maintenance and operation of the sander in order to maximize the longevity and effectiveness of the machine. All information, illustrations, and technical specifications in this manual are based on the most recent product information available at the time of printing.

Bauman Manufacturing Limited reserves the right to change design and specifications and / or to make additions and improvements to the product without notice.

Please record your serial number here:



Bauman Manufacturing Limited
3 Industrial Drive
Elmira, Ontario N3B 2S1
phone 519-669-4333 fax 519-669-2431
www.baumanmfg.com

General Information About The Bauman Sidewalk Sander

The operator must read and understand all of the information in this manual to ensure they service and operate the machine correctly and thus avoid unnecessary risk of accidents and breakdowns.

Always: Stop the tractor engine before you adjust, lubricate, or repair the machine. Remember to remove the ignition key to make sure no one starts the tractor while you are repairing the machine.

Remember: Do not let anyone underneath the machine once it is connected to the tractor. Always disconnect power when servicing.

Never: Under any circumstances let anyone get close to or stay close to the machine while in operation. Do not squeeze between the machine and the tractor as an unintentional maneuver may result in serious injury.

Tractor Requirements:

It is recommended that the tractor operator use hearing protection in case of insufficient sound insulation in the cab. In order to keep full control of the tractor in all circumstances, at least 20% of the tractors total weight should be on the front axle. It may be necessary to regulate weight distribution with additional weights.

Do not overload your vehicle beyond manufacturers payload limits. If there are any questions, contact vehicle manufacturer.

Material Weight Guideline:

| | |
|---------------------|-----------------------|
| Fine Salt (Dry) | 85 lbs. / cubic foot |
| Coarse Salt (Dry) | 55 lbs. / cubic foot |
| 50/50 Sand-Salt Mix | 100 lbs. / cubic foot |

Material weights are provided for estimation, actual material weights may vary.

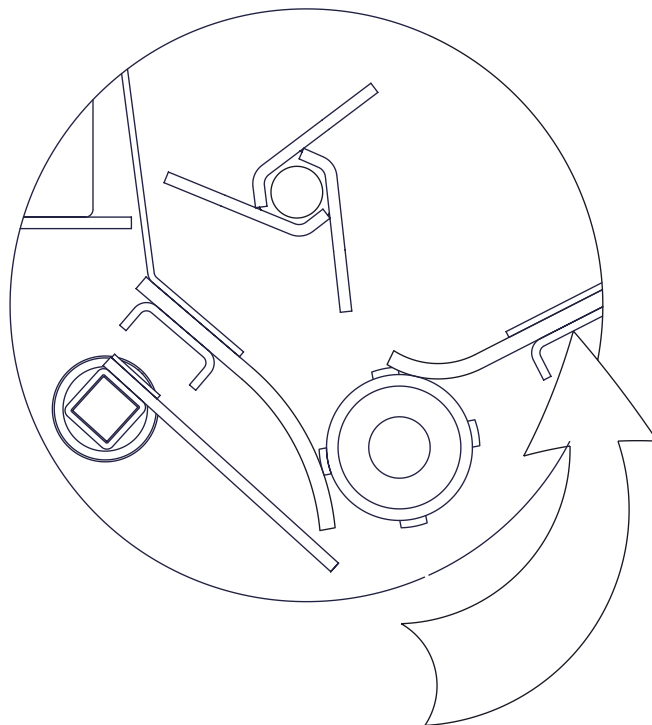
Maintenance

Warning: When repairing, maintaining and cleaning the machine, it is particularly important to be aware of safety precautions. Therefore always park tractor (if connected) and machine as a precautionary measure. Always disconnect power when servicing. Never try to clean, lubricate or adjust the machine before the tractor engine has been stopped and the parking brake activated.

Important: Screws and bolts on your new machine must be tightened up after two hours of operation. Furthermore, all moveable parts must be greased regularly for best performance. In order to extend the durability of the machine we recommend frequent and thorough cleaning. Use plenty of water when cleaning the machine in order to avoid material freezing on the roller and rubber belts. It is easier to clean the machine when the spring tension handle has been loosened.

Remember: Do not spray water directly into bearings or bearing housings. If machine is stored for a lengthy period of time, it is recommended that it is sprayed with acid-free oil before use. Remove all foreign material from the roller. Check and lubricate all chain and bearings regularly.

Wiring Direction



Check direction of distributor drum. To ensure proper rotational direction, wiring may need to be reversed (black-red, red-black).

Attachment of the Machine

This spreader can be attached to the tractor using various methods. It is the operator's responsibility to make sure that it is connected and fastened properly and safely so that the spreader sits horizontally when in operation.

Bauman Manufacturing supplies the motor only. Wiring and switches must be purchased and installed by the dealer or customer. It is the responsibility of the operator to ensure that the motor is wired by a licensed mechanic.

The 1/4HP DC electric motor requires a 20 amp fuse.

Adjustment of Spreading Quantity

The spring bottom tension is adjusted with the handle on the right side of the machine. Here correct adjustment is important. If the spring bottom is adjusted too hard, this will cause unnecessary wearing to the rubber belt and rotating parts. If the adjustment of the spring is too slack, the distribution of the material will be uneven.

Starting to Spread:

Spreading of material starts as soon as power is switched on in the machine.

Safety Instructions

This machine demands skilled operation. Therefore, you must read this operator's manual before connecting the machine to the tractor. Even though you have owned or operated a similar machine, you should thoroughly read through all safety and maintenance procedure thoroughly. After all, this concerns - among other things - *your own safety.*

This Bauman Sidewalk Sander should only be operated by one person. The operator must see to it that no people (particularly children) are close to the area where the machine is in use. NEVER let others operate the machine unless you are absolutely certain that they have the necessary knowledge to operate the machine safely and correctly.

The following precautions should be fully read and understood before operation of the machine:

- Activate the tractor's parking brake and stop the tractor's engine before:
 - Lubricating the machine
 - Cleaning the machine
 - Disassembling any part of the machine
 - Adjusting, repairing or maintaining the machine
- Always lower the machine to the ground when parked.
- Always disconnect power before servicing.
- Never work underneath an elevated unit until it has been secured mechanically or by means of stop wedges.
- Do not start or operate the tractor until all bystanders are made aware and are well clear of the machine.
- Check to make sure that all tools have been removed from the machine before starting the tractor.
- Check that all safety shields and grills are in place and secured.
- Never operate the machine while wearing loose garments as they could be pulled into the machine by a movable part.
- Always use statutory vehicle lights and safety markings as required by law when using on public roads or when driving in the dark.
- Do not adjust, clean, lubricate, or unclog material jams without first disconnecting power from the sander.

- Hearing protection is recommended - especially if the machine is in use over a long period of time.
- Before lifting or lowering the sander, ensure there is no one in the vicinity of the machine. Do not stand between the tractor and sander during attachment and detachment.
- Do not use the machine for any other kind of work than for that which it has been constructed. The machine has only been manufactured strictly for its intended use as a drop spreader of sand and salt.
- Be considerate of people, property, and animals in the vicinity of the machine. Keep them at a safe distance of at least 10 meters from the machine during operation.
- Only use original components, or replacement components received from Bauman Manufacturing.
- Sitting, reaching, or climbing on or in the spreader during operation can result in serious injury or death. Do not ride on the spreader while the vehicle is in motion.
- **DO NOT** remove the hopper grill.
- All laws and rules relating to public safety in the country of operation must be obeyed. Follow both the vehicle and sander manuals to ensure safety and mechanical efficiency.

It is the operator's responsibility to ensure the safety of not only him/herself, but also of others while operating or maintaining the Bauman Sidewalk Sander.

Safety Labels

The danger labels on our equipment are for the safety of not only the operator but the safety of pedestrians and bystanders as well. Always read and obey warning and danger labels. The operator must ensure that before operating the machine all guards and grills are in place and attached properly. Stay clear from all moving parts and rotating shafts.

Under no circumstances should you reach into the hopper when the sander is in operation.



440E PARTS LIST

| ITEM NO. | PartNo | DESCRIPTION |
|----------|------------------|--------------------------|
| 1 | 440 200 | GRILL |
| 2 | 1140 201 | SHIELD |
| 3 | 1140 302 | DISTRIBUTOR DRUM |
| 4 | 1140 303 | AGITATOR |
| 5 | 1140 305 | TENSION LEVER |
| 6 | 1140 301 | FINGER BAR |
| 7 | 40B12 010 EXT | SPROCKET |
| 8 | 40B30 016 | SPROCKET |
| 9 | 440 400 (20x41) | DOUBLE-SINGLE SPROCKET |
| 10 | 1140 410 | CHAIN #40 (long) |
| 11 | 1140 411 | CHAIN #40 (short) |
| 12 | UCFL 205-16 | BEARING |
| 13 | 1040SI 430 | END PLATE |
| 14 | 1140 SB60-4 | RUBBER FLAP (drum) |
| 15 | 1140 SB50-4 | RUBBER FLAP (finger bar) |
| 16 | 1801 440 MOTOR | MOTOR |
| 17 | 1808 440 REDUCER | GEARBOX |

440H PARTS LIST

| ITEM NO. | PartNo | DESCRIPTION |
|----------|---------------|-------------------------|
| 18 | HYD MOTOR 440 | HYD MOTOR |
| 19 | HYD 124102510 | FLOW CONTROL VALVE |
| 20 | 440 601 | FLOW CONTROL MOUNT |
| 21 | HYD HOSE 18 | MOTOR HOSE (return) |
| 22 | HYD HOSE 15 | MOTOR HOSE (pressure) |
| 23 | HYD HOSE 52 | TRACTOR HOSE (return) |
| 24 | HYD HOSE 66 | TRACTOR HOSE (pressure) |
| 25 | HYD 5205X6X8 | JIC x NPT MALE CONN |
| 26 | HYD 5706X6 | JIC SWIVEL NUT RUN TEE |
| 27 | HYD 5405X6X8 | JIC x NPT MALE 90 |

