



## **Modular Broom**

**Mega-Broom SMB-600; SMB-720; SMB-960**

**Pro-Broom SPB-600; SPB-720**

**ValuSweep® Broom VSB-048; VSB-060**

**Owner's Manual and Installation Instructions**  
*Original Instructions*

**⚠ CAUTION**

Read this document before operating or servicing the broom.

**⚠ CAUTION**

Read this document before installing the broom.

This document supersedes all editions with an earlier date.



## OWNER INFORMATION

---

You have purchased a member of the SweepEx® Modular Broom family, an advanced concept in broom products.

Our unique design allows many sweeping and debris-removal applications to be addressed. The modular concept allows multiple size variations. Attachments to meet various cleanup requirements are available.

Your SweepEx broom may be attached to any of several power sources which you may have available.

The simplicity of construction, using high quality steel and deluxe electrostatic finish, requires minimal maintenance.

Poly-brush sections are durable and resilient, wear slowly, and may be replaced simply and quickly with minimal downtime.

TrynEx International reserves the right to make any changes or improve the design of any parts and not be obligated to make changes on units previously sold.

Owner Name: \_\_\_\_\_

Date Purchased: \_\_\_\_\_

Outlet Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Outlet Address: \_\_\_\_\_

Broom Model Number: \_\_\_\_\_

Broom Serial Number: \_\_\_\_\_



# TABLE OF CONTENTS

---

<b>Safety Information</b> .....	6
<b>Broom Weights and Vehicle Application Information</b> .....	7
<b>Assembly</b> .....	8
<b>Operation</b> .....	9
<b>Maintenance</b> .....	11
<b>Warranty</b> .....	12

# SAFETY

---

## SAFETY DEFINITIONS

### **WARNING**

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious personal injury.

### **CAUTION**

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

**NOTE:** Indicates a situation or action that can lead to damage to your broom and vehicle or other property. Other useful information can also be described.

---

## SAFETY PRECAUTIONS

Improper installation and operation could cause personal injury and/or equipment and property damage. Read and understand the Owner's Manual before installing, operating or making adjustments.

- NEVER get under the unit during maintenance procedures without properly securing the unit.
- ALWAYS take a few minutes to properly secure your broom using dunnage or jack stands to ensure safety during maintenance.
- DO NOT rely solely upon the hydraulics of your machine to secure the broom during maintenance.
- ALWAYS be sure to keep hands and feet away from designated pinch points.
- Never operate equipment when under the influence of alcohol, drugs, or medication that might alter your judgment and/or reaction time.
- Always wear safety glasses with side shields when working metal against metal. Failure to do this could result in serious injury to the eyes or other parts of the body.
- Never allow children to operate or climb on equipment.
- Always check areas to be swept to be sure no hazardous conditions or substances are in the area.
- Always inspect unit for defects: broken, worn or bent parts, weakened areas on broom or mount.
- Be sure vehicle/power source is properly braked or chocked.
- Always make sure personnel are clear of areas of danger when using equipment.
- Remember it is the owner's responsibility to communicate information on safe usage and proper maintenance of all equipment.

# SAFETY

## PERSONAL SAFETY

- Remove the ignition key and put the vehicle in park or in gear to prevent others from starting the vehicle during installation or service.
- Wear only snug-fitting clothing while working on your vehicle or broom.
- Do not wear jewelry or a necktie, and secure long hair.
- Wear safety goggles to protect your eyes from battery acid, gasoline, dirt and dust.
- Avoid touching hot surfaces such as the engine, radiator, hoses and exhaust pipes.
- Always have a fire extinguisher rated BC handy, for flammable liquids and electrical fires.

## CELL PHONES

A driver's first responsibility is the safe operation of the vehicle. The most important thing you can do to prevent a crash is to avoid distractions and pay attention to the road. Wait until it is safe to operate Mobile Communication Equipment such as cell phones, text messaging devices, pagers or two-way radios.

## NOISE

Airborne noise emission during use is below 70 dB(A) for the broom operator.

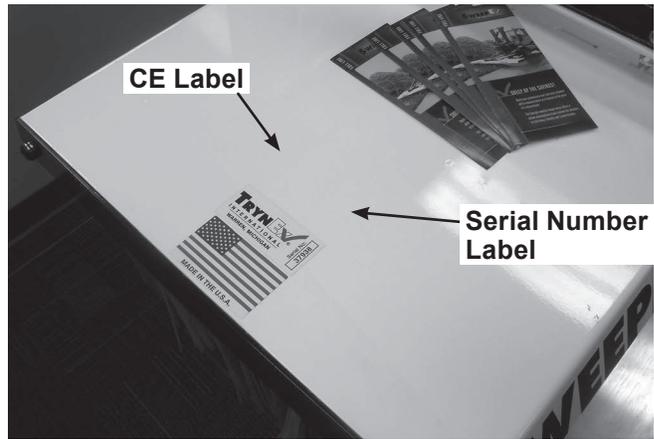
## VIBRATION

Operating broom vibration does not exceed 2.5 m/s<sup>2</sup> to the hand-arm or 0.5 m/s<sup>2</sup> to the whole body.

## BROOM WEIGHTS

Size	Wt (lb)	Wt (kg)
ValuSweep®	51	23.1
Pro-Broom	232	105.2
Mega-Broom	315	142.9

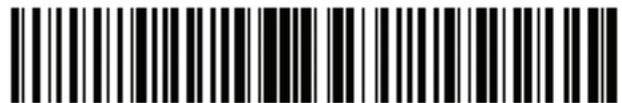
## SERIAL NUMBER LABEL



TrynEx International  
531 Ajax Drive  
Madison Heights, MI 48075  
[www.sweepexproducts.com](http://www.sweepexproducts.com)

60" MEGA-BROOM

140819300022SMB-600



Code	Definition
YY	2-Digit Year
MM	2-Digit Month
DD	2-Digit Day
LL	2-Digit Location Code
XXXX	4-Digit Sequential Number
ZZZZZ	5-7- Digit Assembly PN

## CE LABEL



**MAXWEIGHT  
315 POUNDS**

# ASSEMBLY

---

## INSTALL FORKLIFT POCKETS

### ValuSweep® Brooms

1. Install forklift pockets on broom hood using 3/8" hex cap screws.
2. Thread knob through forklift pocket approximately 1". Position swivel foot so that screw can engage locking ring inside the swivel foot.
3. Use the hood to screw down against to lock both pieces together. Repeat the process for the other side.
4. Install one end cap on broom.
5. Insert bristle into broom hood and slide in until it contacts the end cap.
6. Install other end cap and the broom is ready for use.

### Mega-Broom

On the Mega-Broom series, the fork pocket mount is a separate fixture and must be securely attached to the broom head. Once the mount is bolted to the broom, the instructions below should be followed.

#### **▲ CAUTION**

**The tension of the chain binder should never be greater than what hand tightening allows. Never use a pipe or other tool to gain additional leverage to tighten the chain binder.**

**Never over-tension the chain binder—damage may occur to your person or the product due to possible "kickback" of the binder.**

The Mega-Broom mount comes complete with a set of chain binders to tighten and securely attach the chains around the lift truck carriage. Due to the extra weight and size of the Mega-Broom broom, a positive lock down is necessary.

# OPERATION

---

## ATTACH BROOM TO FORKLIFT

With the SweepEx® broom sitting on the ground, and the mount facing the lift truck, drive straight and level into the fork pockets until the tips of the forks are completely dead-ended into the box end of the broom mount.

### ValuSweep® Broom

---

**NOTE: For ValuSweep brooms only – Make sure that the threaded lock-down knob is threaded all the way out, and the flat foot of the fork clamp is clear of the lift truck fork.**

---

Drive the forklift forward all the way until the end of the fork tip rests at the back of the fork pocket.

Gently drop the forks down until the forks rest on the bottom of the pocket. Once the fork tips are fully into the pocket, lower the threaded lock-knob assembly all the way down by turning the knob clockwise in a tightening manner.

Once the foot is firmly against the steel fork, hand tighten to ensure that the broom will not slip off the forks while back drag sweeping. (DO NOT OVERTIGHTEN THE KNOB ASSEMBLY FOR DAMAGE MAY OCCUR.)

Do not use an external tool to overtighten the lock-down knob. The ValuSweep attachment is now complete and sweeping can begin.

### Pro-Broom and Mega-Broom

With the fork tips level and fully engaged into the fork pockets of the Pro-Broom or fork mount on the Mega-Broom, the following directions apply:

1. Slightly raise the lift truck forks and tilt back to lift the bristles off the ground 2". This will keep the forks in the top of the pocket, and the tips of the forks dead-ended fully into the end stop angle on the mount.
2. Now that the weight of the broom is completely suspended on the fork, attach the chain to the fork carriage on one end and to the broom on the other end using the clevis hooks. The chain should be tightened by hand.
3. Repeat the process on the other side.

## APPLICATIONS

### ValuSweep Broom

The ValuSweep broom has 5 rows of bristles and works well sweeping inside loading docks, warehouses, semi-trailer floors, plant maintenance, and small parking lots. Typical applications are: material spills, shrink wrap debris, broken pallet scraps, Floor-Dry, standing water, light snow from overhead doorways, and loading docks.

### Pro-Broom

The Pro-Broom broom has 8 rows of bristles and works well sweeping loading docks, lumber yards, large parking lots, roadways, warehouse recycling plants, rubbish/material yards, and trucking terminals. Typical applications are material spills, broken pallet scrap, mud, dirt, scrap-metal debris, standing water, light snow and food debris.

### Mega-Broom

The Mega-Broom broom has 11 rows of bristles and works well sweeping lumber yards, construction sites, nursery yards, job sites, roadways, parking lots, recycling, and industrial plants. Typical applications are: material spills, broken-pallet scraps, mud, sludge, water, scrap metal, light snow, glass, construction debris, bricks, tires, steel shavings, banding and small boulders.

---

# OPERATION

---

## SET-UP

Initial brush section installation for any mainframe broom requires removal of end cap and the simple insertion of the brush sections into the tracks.

## HOW TO SWEEP

SweepEx® fork-mounted brooms are introduced to many sweeping environments with multiple materials. Each one of these environments can be swept clean, once you know the tips to better performance.

### Inside Sweeping

Inside sweeping suggests that debris will be on top of a floor or deck. The type of surfaces that fall into these categories are: cement and asphalt with insets and/or ramps made of steel decking, tread plate steel or aluminum extrusions, and smooth wood.

### Outside Sweeping

Sweeping outside—on cement, asphalt, dirt, gravel, etc.—is similar to inside sweeping. The difference is the job normally requires a much wider broom with a need to push materials a greater distance.

For the best sweeping performance with a forklift broom, it is essential to maintain a flat profile of the broom to the surface. Since most lift trucks can easily change the attitude and pitch of the forks, it is important to secure the broom-mount as tightly as possible onto the lift truck forks.

### Broom Saturation

Depending on the size of the material being swept, you can extend the length of the push by simply stopping once saturation occurs. Lift the broom, back up to just past where the debris pile begins, drop the broom back down behind the clean leading edge of the pile and continue sweeping.

## Material Tips

### Dirt, Sand, & Gravel

- Keep bristle contact perpendicular to sweeping surface – this is most important! Too much angle on bristles will cause them to drag and perform improperly.
- If the sweeping surface is hard, such as pavement, a slow, steady brush will clean best.
- Excessive down pressure does not make the broom sweep better. Gentle down pressure is best.
- To sweep dirt or gravel off a grassy area (e.g., cemetery use), be sure the dirt is dry.
- Drop broom, raise slightly, sweep at slow speed. This will do the best job.
- Do not attempt to move piles of dirt, sand, or gravel. Use a blade for this procedure.
- Keep the full broom weight off the sod to ensure minimal sod disturbance.
- For even bristle wear and maximum performance, occasionally sweep in the opposite direction.

### Leaves

- A light touch and low-speed action does the best job.
- Sweep in the direction of the wind to get the pile where you want it.
- If leaves get wet and packed, more than one pass may be necessary to clean the area.

### Snow

- Light snow is a pushover for your SweepEx broom. When snow is wet and heavy, get a plow!
- Remove alternate brush section rows to prevent snow build-up in broom.
- Your SweepEx broom is ideal for clearing light snow in sensitive areas such as sidewalks and brick paver areas. It will not injure sod, underground sprinkler heads, edging, etc.

# MAINTENANCE

---

## BRUSH SECTION REPLACEMENT:

1. Suspend the broom by blocks, lift, etc.
2. Remove one end cap.
3. Remove old brush sections.
4. Clean track receptacle (pressure wash, water hose, or air).
5. Insert new brush sections.
6. Replace end cap and fasten securely in place.

## BRUSH SECTION ROTATION

After every 4 hours of use, rotate brush sections from front to back.

## STORAGE

Store your broom so that the brush pressure is equal on all bristle strips. Some suggestions are:

- Block both ends so that the weight of the unit is not on the brush strips at all.
- Store broom upside down.
- Store blocked so that broom sits level.

This will preserve an EVEN sweeping surface. Store under a dark tarp to minimize ultraviolet light damage to brush sections.

## BRISTLE WEAR

All SweepEx® brooms, regardless of their size and application, will work equally well sweeping backward or forward.

If you only sweep in one direction, the bristles eventually will knife to a point. Using the broom for "forward only" sweeping will cause the broom to start losing its effectiveness. Pulling the bristle rows out of the hood and turning them around end for end will give more even wear. Once the bristles are worn down to approximately 50% of their original height, the entire set should be replaced.

As the bristles wear down, they may become stiff and less flexible. This may allow less action at the bristle tips and result in an undesirable smear. Generally speaking, SweepEx bristles wear out or melt, due to ground friction, at a rate of 1/64" per mile. This, of course, should be monitored case by case. Individual use and wear may vary.

For any questions, call 1-877-SweepEx (1-877-793-3739) and ask for SweepEx Customer Care.

# WARRANTY

---

## Limited Warranty

Trynex products are warranted for a period of twelve months from the date of purchase against defects in material or workmanship under normal use and service, subject to limitations detailed below. Warranty period of twelve months begins on the date of purchase by the original retail user.

The **WARRANTY REGISTRATION CARD** must be returned to the manufacturer for this warranty to become effective. This warranty applies to the original retail purchaser only. This warranty does not cover damages caused by improper installation, misuse, lack of proper maintenance, alterations or repairs made by anyone other than authorized Trynex dealers or Trynex personnel. Warranty claims by the user must be made to the dealer from where the product was purchased, unless otherwise authorized by Trynex. Trynex reserves the right to determine if any part is defective and to repair or replace such parts as it elects. This warranty does not cover shipping costs of defective parts to or from the dealer.

## LIMITATION OF LIABILITY

Neither Trynex, nor any company affiliated with it, makes any warranties, representations for promise as to the performance or quality other than what is herein contained. The liability of Trynex to the purchaser for damages arising out of the manufacture, sale, delivery, use or resale of this spreader shall be limited to and shall not exceed the costs of repair or replacement of defective parts. Trynex shall not be liable for loss of use, inconvenience or any other incidental, indirect or consequential damages, so the above limitations on incidental or consequential damages may not apply to you.

**NO DEALER HAS AUTHORITY TO MAKE ANY REPRESENTATION OR PROMISE ON BEHALF OF TRYNEX INTERNATIONAL, OR TO ALTER OR MODIFY THE TERMS OR LIMITATIONS OF THIS WARRANTY IN ANY WAY.**





TrynEx International  
531 Ajax Drive  
Madison Heights, MI 48071-2429

 A DIVISION OF DOUGLAS DYNAMICS, LLC



*This product conforms to EU Machinery Directive 2006/42/EC.*

Copyright © 2014 Douglas Dynamics, LLC. All rights reserved. This material may not be reproduced or copied, in whole or in part, in any printed, mechanical, electronic, film or other distribution and storage media, without the written consent of TrynEx International. Authorization to photocopy items for internal or personal use by TrynEx International outlets or broom owner is granted.

TrynEx International reserves the right under its product improvement policy to change construction or design details and furnish equipment when so altered without reference to illustrations or specifications used. TrynEx International or the vehicle manufacturer may require or recommend optional equipment for snow removal. Do not exceed vehicle ratings with a broom. TrynEx International offers a limited warranty for all brooms and accessories. See separately printed page for this important information. The following are registered (®) or unregistered (™) trademarks of Douglas Dynamics, LLC: SweepEx®, TrynEx®, ValuSweep®.

**Printed in U.S.A.**