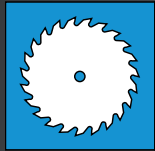


# Installation Guide

2017 TigerStop, LLC®



# SAWGEAR®

automatic length measuring by **TigerStop®**

## PANEL SAW KIT



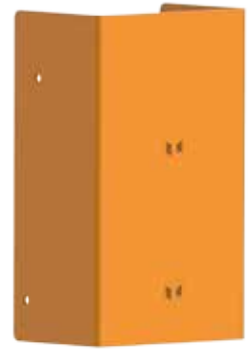
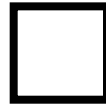
February 2017 Mk 1



Controller



PowerHead



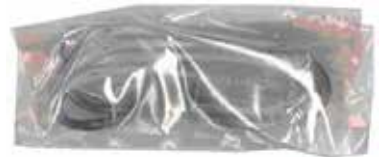
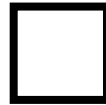
Cable Guard



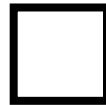
Support Leg



Universal Bracket



Power Cable



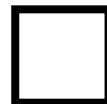
Stop Bar



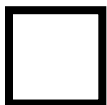
Flip Away Stop Assembly



Bench Mount Brackets



Nut Pack



Measuring Bar

# Safety First!

IMPORTANT SAFETY INFORMATION. READ ALL WARNINGS BEFORE OPERATING THIS PRODUCT.



## GENERAL WARNINGS

WARNING: Installation of your TigerStop Product must be done by a person trained in the safe design and installation of automation products, and in the safe operation of power equipment. Ensure that such installation meets all legally required safety requirements and guidelines, and that proper guarding and safety devices are provided on all sides of the equipment to preclude unintended access during operation. Consult with and follow the recommendations of a qualified safety engineer.

WARNING: TigerStop Products are components intended for use in conjunction with potentially dangerous machinery. The use of TigerStop Products does not make other machinery safe. TigerStop Products are not intended to substitute, in any manner, for safe operating practices in general, or for safety features present in other machines designed to make those machines as safe as possible. **TIGERSTOP PRODUCTS, IF USED OR INSTALLED IMPROPERLY, MAY CAUSE PERSONAL INJURY OR DEATH AND SHOULD ONLY BE OPERATED BY PERSONS TRAINED IN THEIR SAFE OPERATING PROCEDURES.** Illustrations of TigerStop Products in use do not show, and are not intended to show, all safety features and practices necessary for their safe operation.



## INSTALLATION WARNINGS

WARNING: TigerStop Products must be installed in accordance with all local, state, and federal regulations. Only personnel properly trained in the safe design and installation of automation machinery and related power equipment should install TigerStop Products onto other equipment, to ensure a safe and proper work station. TigerStop Products should not be operated without proper training, both in the operation of TigerStop Products, and in the operation of related equipment.

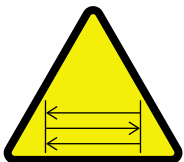
### IMPORTANT CAUTION:

The motor box (compartment) contains DC voltage with potentially FATAL amperage. NEVER attempt any unauthorized actions inside the motor box.



## INTERCONNECTS

WARNING: Using a TigerStop interconnect does not relieve you of the responsibility for making sure that your saw or other tool has all the necessary safety equipment in place. All installations must meet all legally required safety requirements and guidelines. Installation and training should be done following the recommendations of a qualified safety engineer.



## OPERATION

DANGER: This machine can start, move and stop automatically. Keep hands and loose clothing clear of moving parts while operating. Moving parts can crush and cut. When used with a saw or other cutting equipment, bodily injury and death may result if operated without safety guards on all machines. Do not operate with guards removed. Operators must wear adequate eye and ear protection.

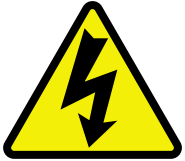


DANGER! Don't get pinched by the push feeder. Keep your hands away when in motion!

**IMPORTANT SAFETY INFORMATION. READ ALL WARNINGS BEFORE OPERATING THIS PRODUCT.**



Keep the work area clean and well lighted to avoid accidental injury.



Do not use TigerStop machines in a dangerous environment. Using power tools in damp or wet locations or in rain can cause shock or electrocution.



Do not operate near flammable liquids or in gaseous or explosive atmospheres!



Wear proper apparel, no loose clothes, long hair or jewelry which could get pulled into moving machinery or materials.  
Wear non slip footwear, safety glasses, ear protection and a dust mask.



Use only 3- wire extension cords that have 3-prong grounding type plugs and 3-pole receptacles that accept the tools plug for 120VAC. Use only 5-wire cords and plugs when using 3 phase.



Do not open motor compartment or controller keypad. DC Voltage with potentially FATAL amperage!  
Disconnect power before servicing. No user-serviceable parts inside.

DO NOT operate this or any machine under the influence of drugs or alcohol!



No one should operate this machine except for fully qualified personnel.  
Read the manual!

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    Calibrating SawGear

    Using the Increment Feature

    Using the List Feature

    Sleep Mode

    Password Protection

    Switching Between Inches and Metric

# Installation

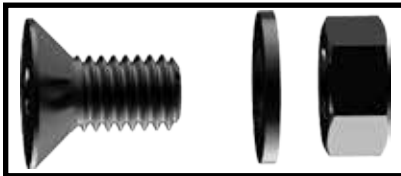
## Install Universal Brackets to Saw



Note: Drilling and Tapping may be required.



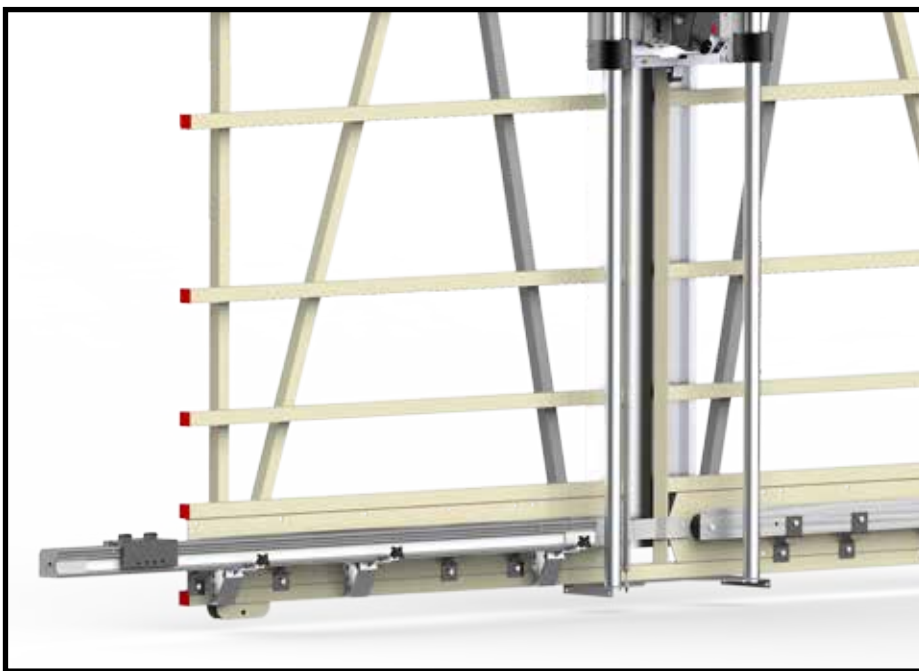
## Install Bench Mount Brackets to Universal Brackets



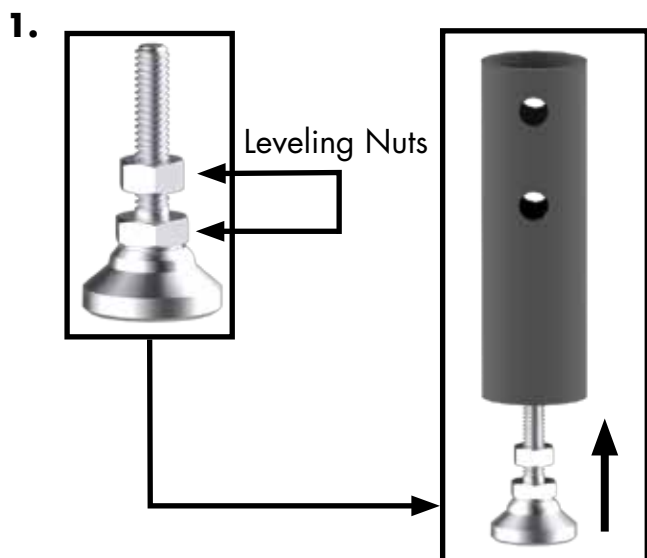
## Attach SawGear Measuring Bar to Bench Mount Brackets



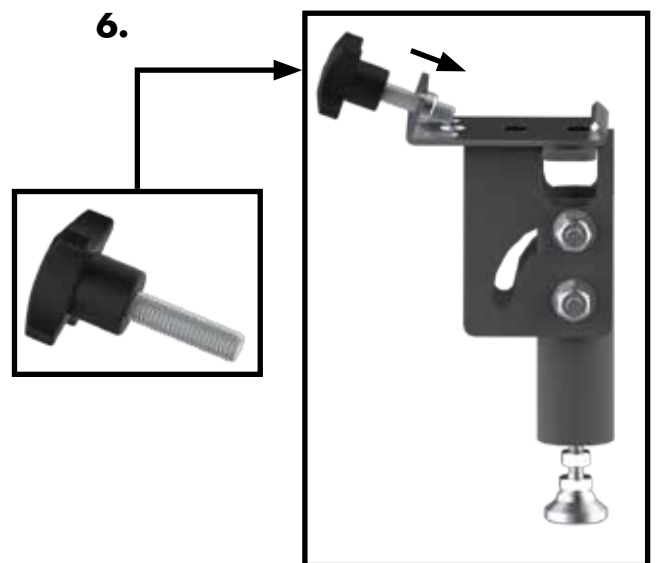
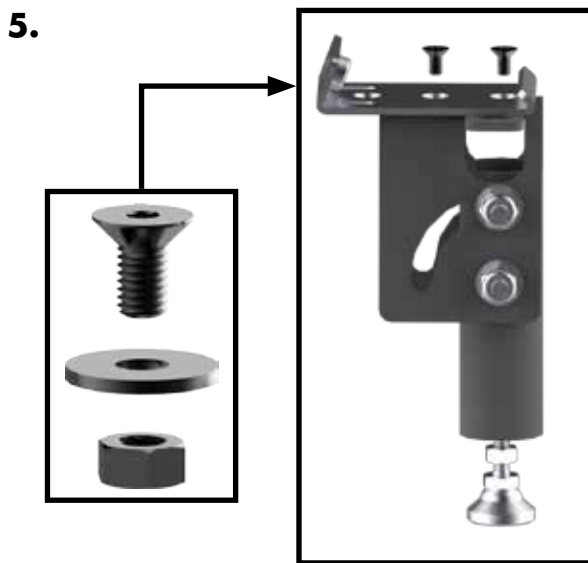
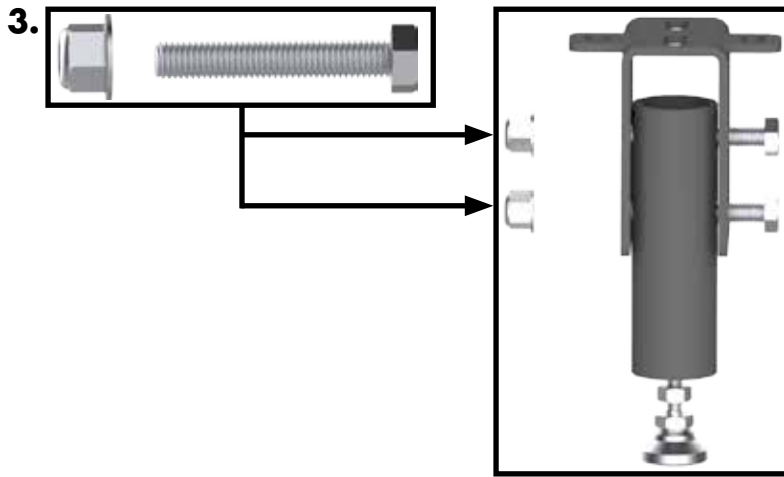
Note: Ensure the Universal Brackets are level before attaching the SawGear Measuring Bar. Failure to do so will impact overall system accuracy.



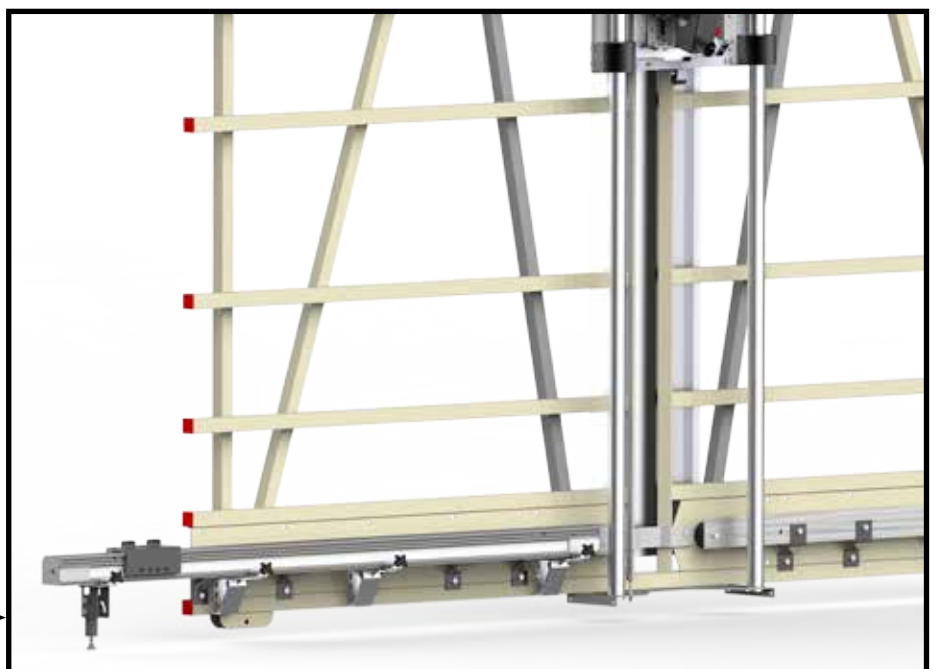
## Assemble Support Leg





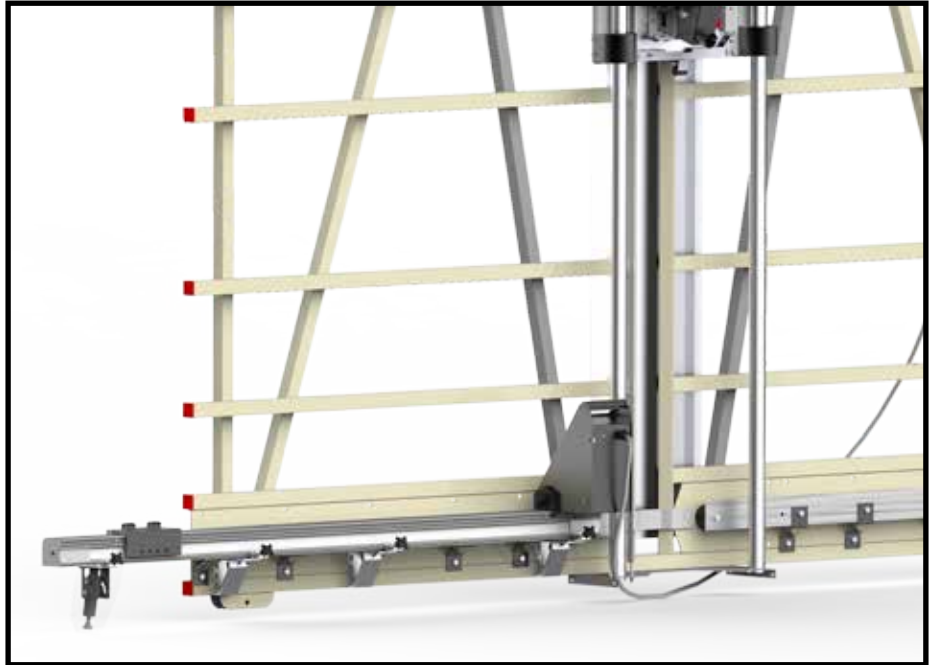
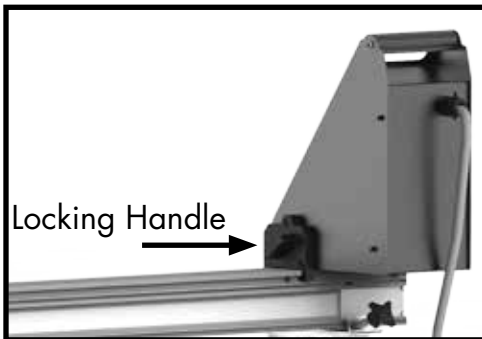
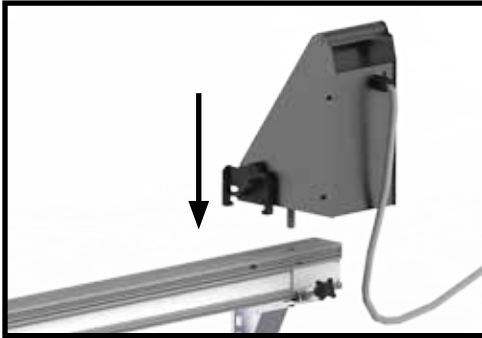


### Attach Support Leg

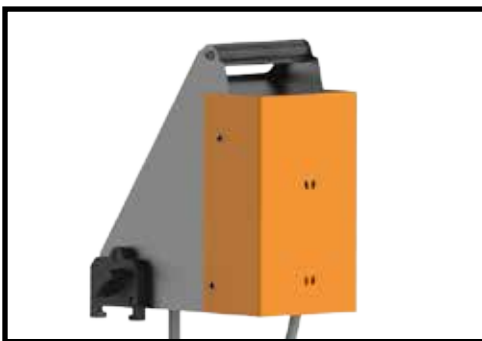
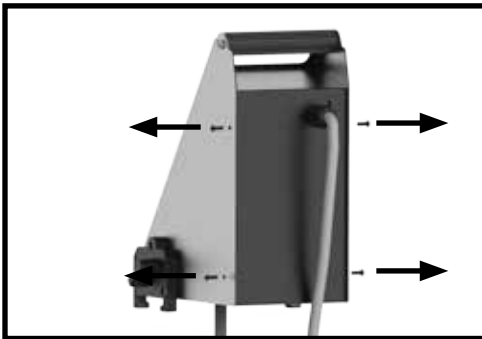




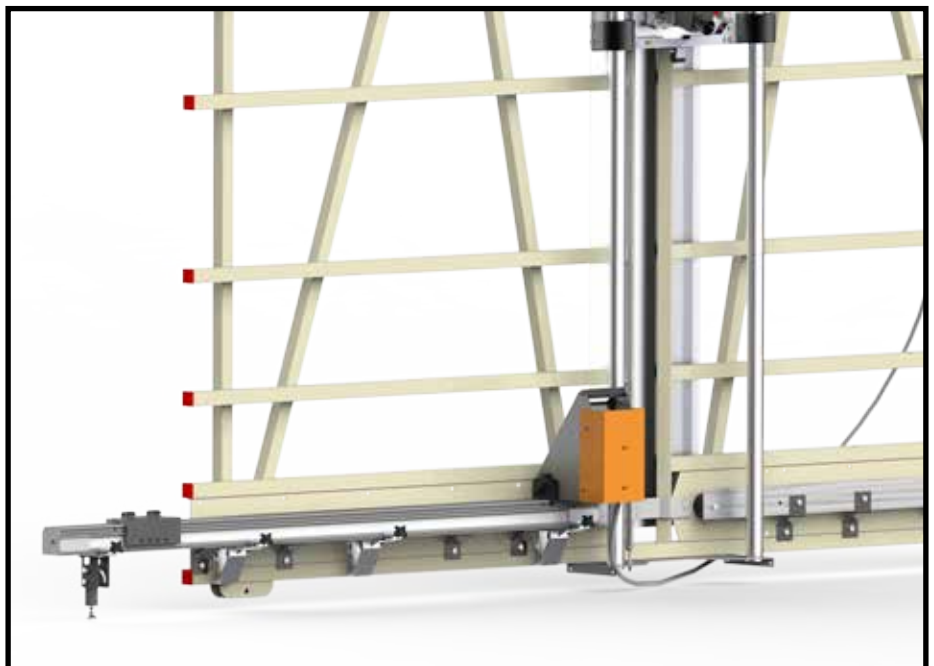
## Attach PowerHead to Measuring Bar



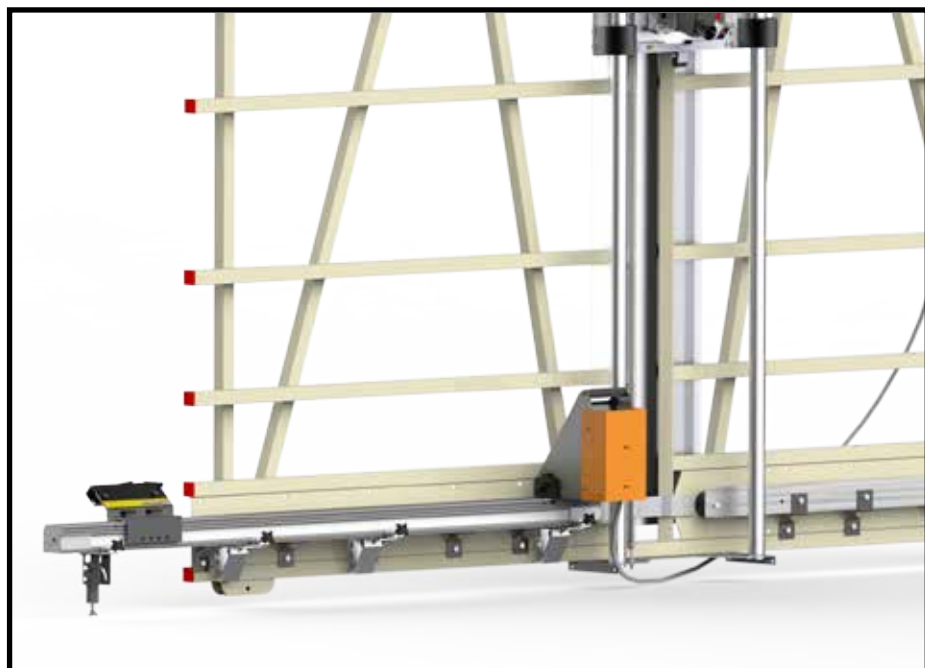
## Attach Cable Guard to PowerHead



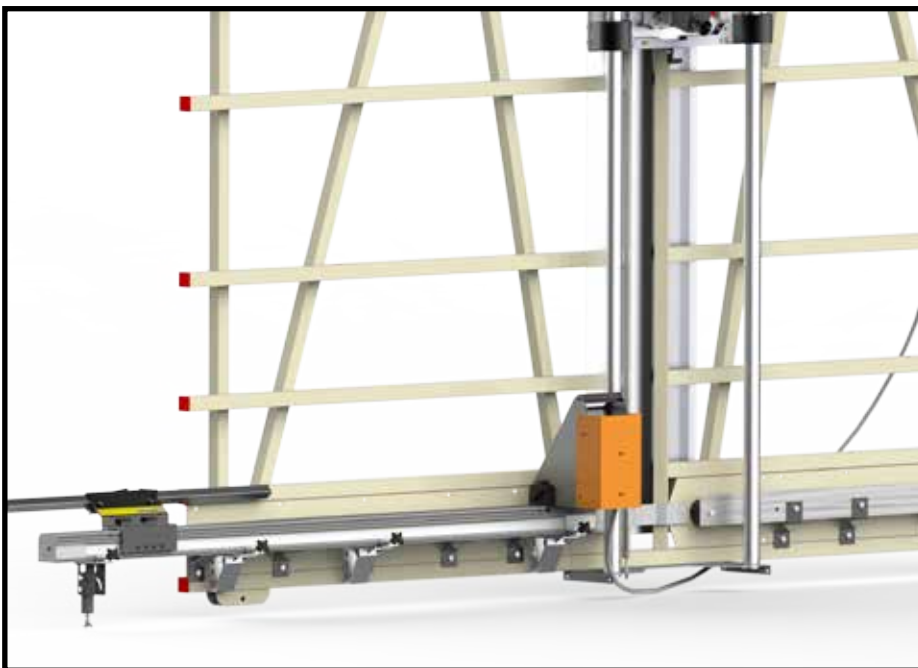
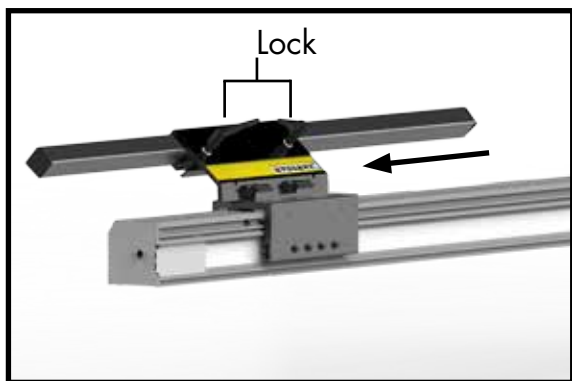
To attach the Cable Guard to the PowerHead, carefully remove the 4 screws on the back of the PowerHead. Hold the Cable Guard in place as shown and replace the 4 PowerHead screws.



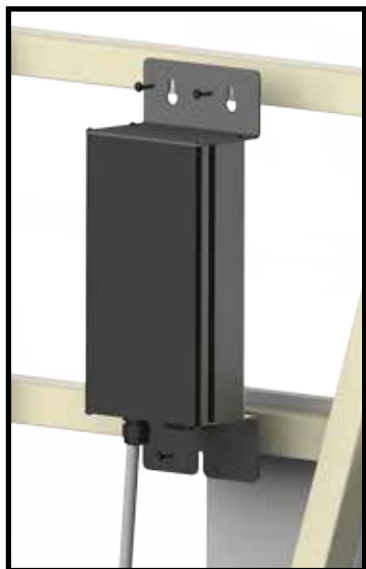
## Attach Flip Away to Carriage



## Install Stop Bar in Flip Away Stop



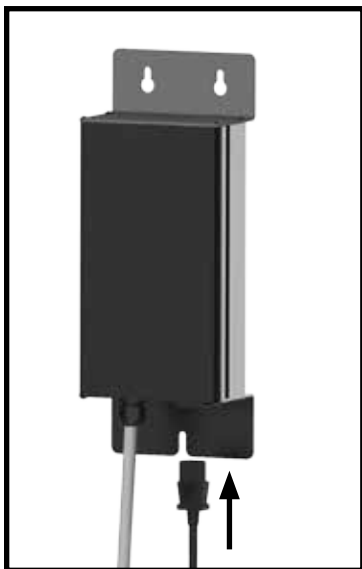
## Attach Controller to Saw



Note: Drilling and Tapping may be required.



## Attach Power Cable to Controller



### SawGear Power

110 VAC

10 Amps

SawGear requires a 110 vac, 10 amp dedicated circuit. This circuit must be properly grounded.

**WARNING! Do NOT use a high leg delta circuit to power SawGear!**  
If you are not sure what kind of circuit you are using, STOP! Have a qualified electrician confirm the main power circuit.

SawGear installation is now complete.

# SawGear Setup

## Register Your Warranty

When your new SawGear arrives, you will find a warranty registration sheet in the accessory box. Fill out this form and fax or e-mail it to TigerStop Customer Service.

(360) 260-0755  
service@tigerstop.com

TigerStop Customer Service will contact you by phone to give you your SawGear enable code, within the hour during regular business hours.

Monday - Friday  
6:00am - 4:00pm PST

Also, feel free to call us if you would like an instant response.


(360) 254-0661

TigerStop Warranty Registration	
Please fill in your company information and fax this to TigerStop at (360) 260-0755. Your machine warranty begins on the date that you receive your enable code.	
Serial Number: _____	
Company Information	
Name of Company _____	Email Address _____
What is the street address of the TigerStop? _____	
Please provide your email address so we can send you important updates. Please be certain you can access the Internet. Please provide your enable code delivery.	
<input type="checkbox"/> Please call me with an enable code delivery.	
Contact Name _____	
Tel _____	
Fax _____	
Please select your industry	
Wood Industry	
Furniture Manufacturing _____	Moldings & Millwork _____
Kitchen & Bath Cabinetry _____	Wood Doors & Windows _____
Commercial Fixtures _____	Lumber & Panel Products _____
Metal Industry	
Doors & Windows _____	Other _____
Sheet Metal Fabrication _____	
Plastic Industry	
Doors & Windows _____	Other _____
What problem(s) did you purchase the TigerStop to solve?	
Improve Setup _____	Improve Accuracy _____
Increase Productivity _____	Improve Material Costs / Optimization _____
Reduce Labor Costs _____	Eliminate Rework _____
Reduce Waste _____	Increase Repeatability _____
Where did you first hear about TigerStop?	
Word of mouth _____	Used in a different job _____
Trade Show _____	Dealer recommended _____
Wood Trade Show _____	Mobile Showroom _____
Internet Search _____	E-mail _____
Existing user _____	
This TigerStop is being used with (check one)	
Saw: Chop Saw _____	Boring Machine _____
Saw: Double Miter _____	Drill Press _____
Saw: Miter _____	Mortiser _____
Saw: Radial Arm _____	Iron Workers _____
Saw: Straightline Rip _____	Punch Press _____
Saw: Table _____	Shears _____
Saw: Up Cut _____	Tube Bending _____
Saw _____	Tube Cutter _____
Custom Machinery _____	Other _____

## Enable Your SawGear

Once you have registered your SawGear warranty, you can enter your SawGear enable code.

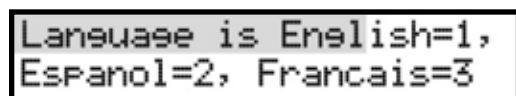
*Note: Your SawGear warranty begins on the day your SawGear is enabled.*






1. When SawGear is powered up, the screen will ask for your enable code.
2. Enter the code given by TigerStop Customer Service and press .

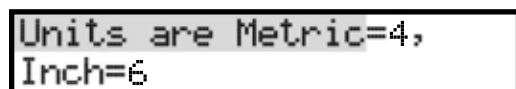
## First Power Up Routine



When SawGear is powered up for the first time, it will need to know a little bit about your saw setup. It will walk you through 3 questions.

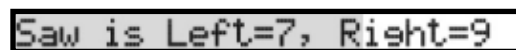
*Note: The messages shown below will scroll across the screen if they are longer than 16 characters.*





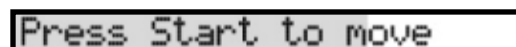
1. SawGear will ask which language you use. Press  for English,  for Spanish,  for French,  for Dutch or  for German.



2. SawGear will ask which units you use. Press  for Metric or  for Inches.



3. SawGear will ask which side of the PowerHead the saw is attached to. Press  for Left or  for Right.

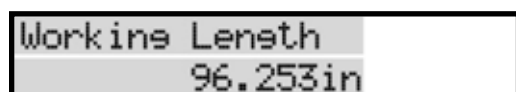



4. Ensure the table is clear. Press Start to begin the home routine.

## SawGear Home Routine


- SawGear will move as far away from the saw as possible
- SawGear will then move as far toward the PowerHead as it can
- SawGear will stop when finished

*Note: If SawGear doesn't do the routine in this exact order, you may have selected the saw side incorrectly. Remove the power cord and hold while plugging it back in to repeat the first start up routine.*



5. SawGear will display its working length, as calculated during the home routine. Press  to continue.

Enter length of cut  
piece and press Start

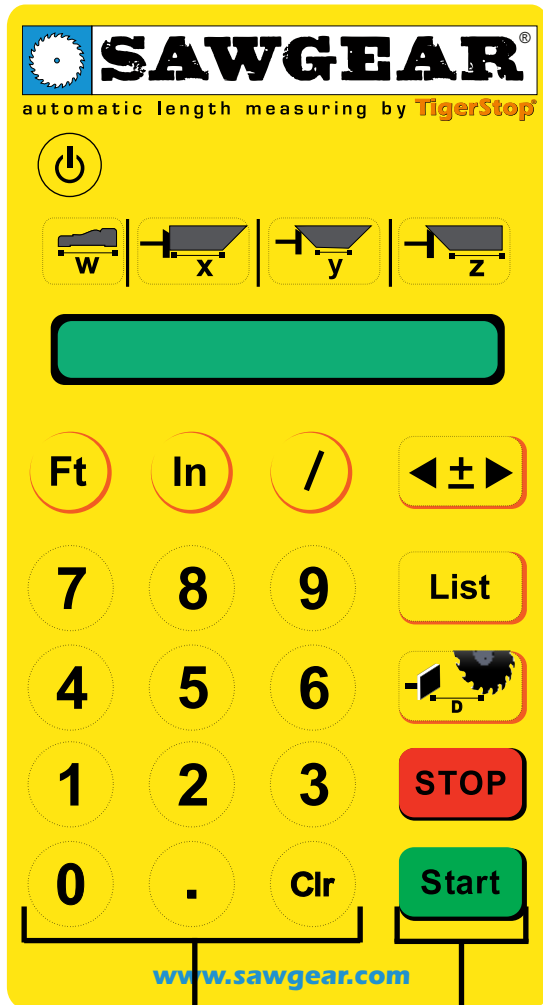
6. SawGear will now move back a few inches. Put a piece of material against the SawGear stop bar and cut it.
7. Measure the cut piece and enter into the SawGear keypad. Press  when finished.

# Basic SawGear Use

## Moving SawGear

Moving SawGear is as easy as entering a length on the number pad and pressing **Start** to move.

Lengths may be entered as decimals or as fractions.



Number Pad

Start Button

## Entering Fractions

Example: I want to cut a piece that is 2 feet and 8 and 1/2 inches.

Enter **2** **Ft** **8** **1** **/** **2** **In**.

Press **Start** to move SawGear.

Note: SawGear will now display lengths in fractions.

## Entering Decimals

Example: I want to cut a piece that is 2 feet and 8 and 1/2 inches.

Enter **2** **Ft** **8** **.** **5** **In**.

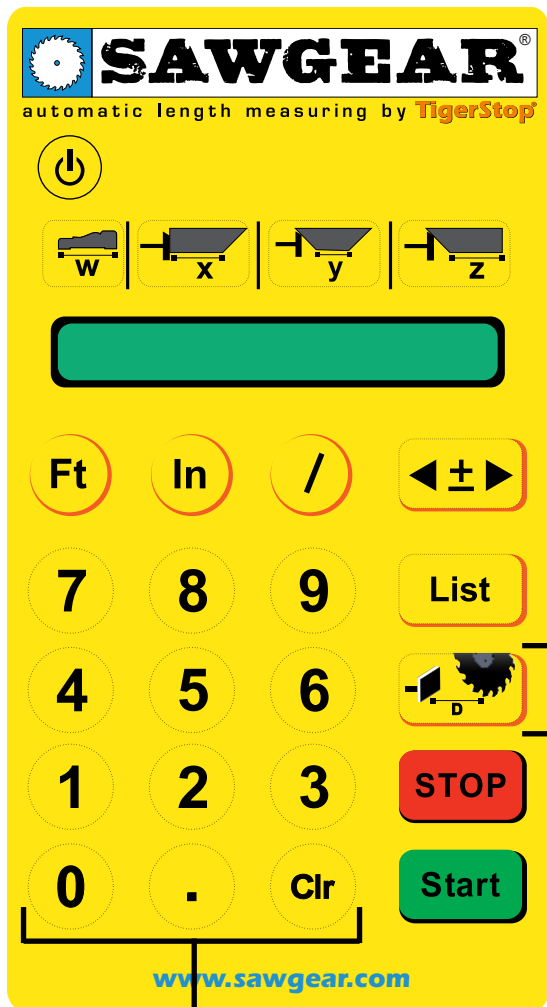
Press **Start** to move SawGear.

Note: SawGear will now display lengths in decimal.





## Calibrating SawGear

As you use your SawGear, you will have to calibrate the length measurement after saw blade replacements or each time the machine is moved, before putting it into operation.



Number Pad

### How To Calibrate

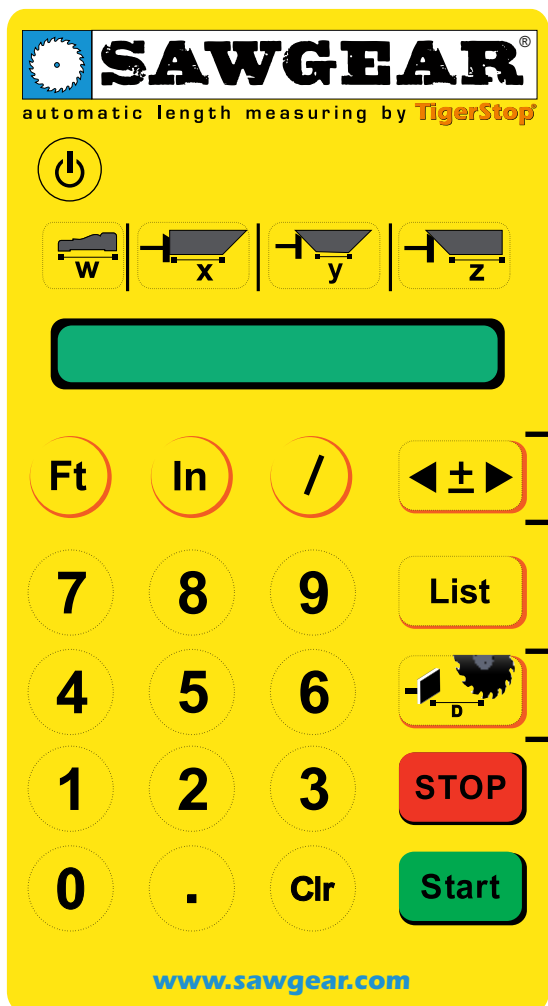
1. Send SawGear to any length.
2. Make a cut and measure.
3. Press the  button.
4. Enter your measurement and press .

SawGear is now calibrated


Calibrate Button

## Using the Increment Feature

SawGear has an increment feature that allows you to move SawGear forward or backwards in set increments.



### Setting the Increment

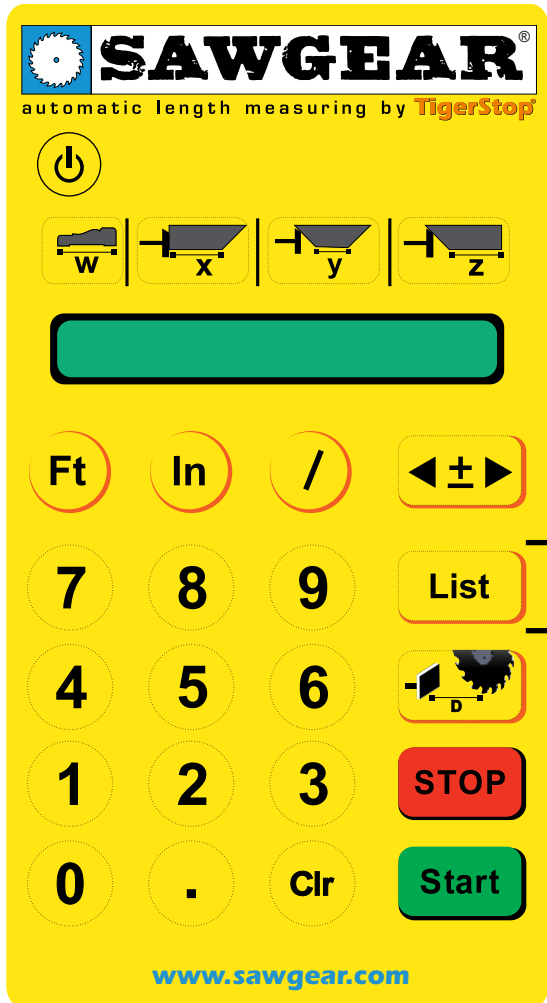
1. Press .
2. Press the right or left increment button.
3. Enter the increment length for the selected button.
4. Press  to save setting.

### How to Increment

1. When SawGear is at a length, press the right or left increment arrow.
2. SawGear will immediately move in the direction pressed.

## Using the List Feature

SawGear can store up to 9 dimensions in each of 10 cut list memory slots.



### Selecting a Memory Slot

1. Press **List**.
2. Enter a memory slot number (0 - 9).
3. Press **Start**.

### Programming a List

1. Once you have selected a memory slot, Enter the length you want to cut.
2. Press **Start** to move to the next length.
3. Once you have programmed all the lengths you wish to program, Press **STOP** to save the list.





### Running a List

1. Press **List**.
2. Enter the list number you wish to run.
3. Press **Start** to cycle through each programmed cut size.

## Sleep Mode

Sleep mode will turn off the SawGear display when left inactive for a set amount of time.




```
Enter time until sleep  
mode, 0 to disable, and  
press START
```

1. Press , then .
2. Enter the number of minutes that SawGear should remain powered up after inactivity.  
Note: The smallest value allowed is .25 minutes. Enter a value of 0 to disable sleep mode.
3. Press  to enter the value.
4. Use  to power up SawGear.


## Password Protection

SawGear can be password protected to prevent its use by unauthorized persons. Please note that once the password is set, SawGear cannot be used without it.


```
You are about to  
initialize the password  
system If you forget  
your password, the SG  
will be broken.
```

1. Remove the power cable from the SawGear PowerHead.
2. Hold the  button.
3. Plug the power cable back into the PowerHead while holding the  button.
4. Press .




```
Enter password
```

5. Enter any number, between 4 - 8 numbers in length.
6. Press .

```
Confirm PW
```

7. Re-enter the password.
8. Press .

## Deactivate Password Protection

1. Remove the power cable from the SawGear PowerHead.
2. Hold the  button.
3. Plug the power cable back into the PowerHead while holding the  button.
4. Press .

Enter old PW

5. Enter the existing password and press .

Enter password

7. Press .



Confirm PW

8. Press .

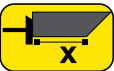

9. The password is now deactivated.

## Switching Between Inches and Metric

SawGear can switch between inches and metric during operation.

1. Press  to power off the SawGear screen.
2. Press .

Units are Metric=X  
Inch=Y

1. Press  for Metric or  for Inches.
2. Continue using SawGear as normal.









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fast and accurate...every time

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sales@tigerstop.com

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info@tigerstop.nl