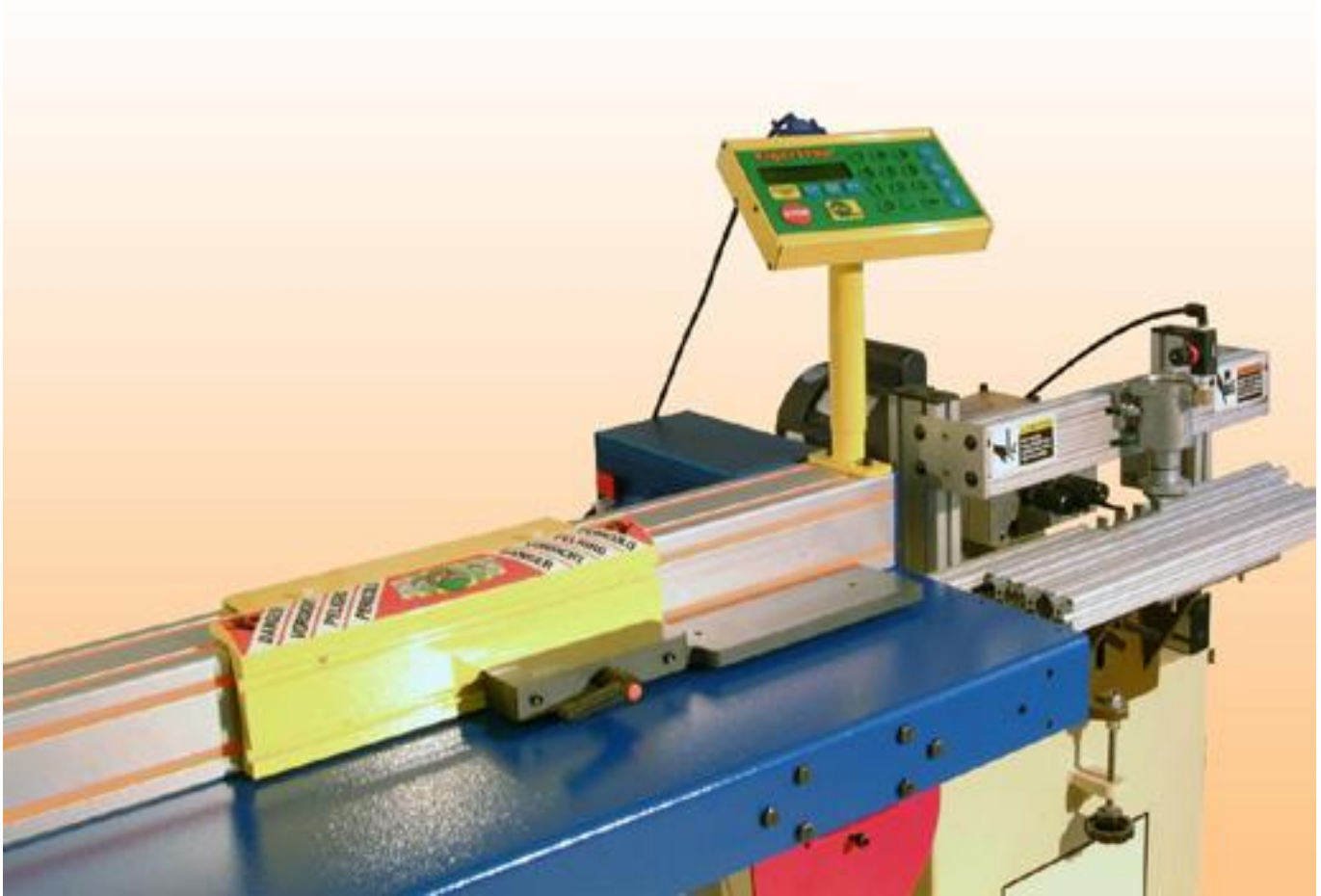



TigerStop[®]

Installation

September 2005



Dog won't hunt till you enable it!



This machine will NOT function until it's enabled!

Enable your TigerStop between the hours of 7 am and 4 pm PST Monday to Friday.

The warranty period doesn't begin until you enable your TigerStop. To enable your TigerStop, complete the warranty registration form **INSIDE**.

IMPORTANT! TigerStop must be enabled with a code that must be obtained from TigerStop Customer Service.

If you will be installing your unit on a weekend or after business hours, be sure to get your enable code before 4 p.m. PST!

Contact information:

TigerStop LLC, Assembly Plant, 12909 NE 95th St., Vancouver, WA 98682

Tel: 360 254-0661 ☐ Fax: 360 260-0755 ☐ Website: www.tigerstop.com ☐ Email: service@tigerstop.com

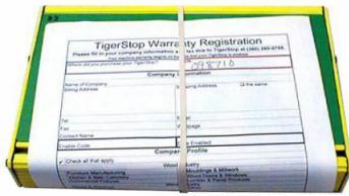
© 2005 TigerStop LLC

Table Of Contents

Register Your Warranty	1
To enable your TigerStop	1
The Basic TigerStop	2
The TigerStop Controller	3
Primary Function Keys	3
Numeric Calculator Keys	3
Math Function Keys	3
Inches or Metric	4
Controller Ports	4
Controller Cable Facts	5
Basic TigerStop Parts List	6
Installing TigerStop	7
CAUTION! NEVER drill holes into the TigerStop fence beam for any reason!	7
Mounting TigerStop to a Feed Table	8
CAUTION! Washers MUST be used to prevent damage to the fence beam by over-tightening!	8
Attaching the Flip-Away Stop	9
Line Filter	10
Control Stand	11
Brackets	13
TigerStop Warranty	14
TigerStop, TigerRip Fence, & TigerStop Accessories	14
TigerStop Replacement Parts	14
Service	14

Register Your Warranty

1 When your new TigerStop arrives, you will find a warranty registration wrapped around the controller in the accessory box.



2 Fill out this form and fax it to TigerStop Customer Service at (360) 260-0755.

3 TigerStop Customer Service will contact you by return fax or by phone to give you the enable code, within the hour during *regular business hours*, (360) 254-0661 x238 Mon-Fri 7am~4pm PST (West Coast), service@tigerstop.com, or the next business day if faxed after 4:00 P.M.

4 When you get your enable code from TigerStop Customer Service, it's time to enable your TigerStop!

Your TigerStop warranty begins on the day that your TigerStop is enabled!

To enable your TigerStop...

1 Fill out the warranty registration form and fax it to TigerStop. Fax 360-260-0755.

TigerStop customer service will give you your machine's enable code.

2 Turn TigerStop ON . The switch is on the motor box .

3 The screen displays...



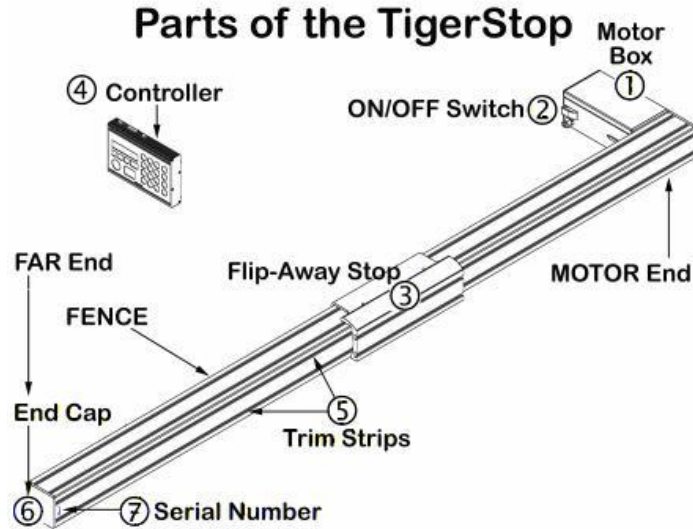
You will see the message "Enter enable code" on the top line of the LCD screen, which alternates with two other messages: "Call TigerStop," and the factory telephone number "(360) 254-0661." The serial number of your machine is constantly displayed on the bottom line of the screen. When you enter the enable code, it will REPLACE the serial number.

4 Enter the **enable code** and press  to load the code.

If the "Enter enable code" and the other messages stop blinking, the enable code has been successfully loaded (but not yet stored), so you can run the home routine. If the messages continue displaying on the top line of the screen, you have not entered the enable code correctly. Take a careful look at the enable code and re-enter it. If it still does not work, call TigerStop Customer Service.

If you encounter a home routine failure right after you have entered your enable code, the enable code will NOT have been stored, and it will have to be re-entered. TigerStop is not actually enabled until it has successfully run the home routine and stored the enable code.

The Basic TigerStop



Concept The basic TigerStop consists of 7 components:

1. The motor box, blue anodized aluminum. There is a warning sticker on the motor box end cap. (Shown below, figure 1.)
2. Red Power ON/OFF switch.
3. The flip-away stop, aluminum, yellow powder-coated, with safety label.

This component is shipped with its fastening hardware in the accessory box and must be attached at installation.

4. The controller, aluminum, yellow powder-coated, with bright green keypad face and colored buttons.
5. The trim strips, orange plastic strips that fill the T-slots on 2 sides of the fence beam.
6. The end cap, blue anodized aluminum with a tensioning bolt in the center, over which there is a label to prevent tampering. (Shown below, figure 2.)

DO NOT remove the label or loosen the tensioning bolt! As the label says, "Removal will VOID the warranty."

7. The serial number, which is stamped into the metal of the fence beam on the forward face at the far end.



Fig. 1

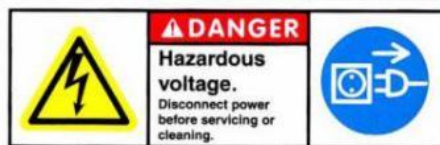


Fig. 2

The TigerStop Controller

Concept → The TigerStop controller is the ordinary means of operating TigerStop and using its many functions.

- TigerStop versions 3.5 and higher utilize a new type of controller, called **SMT** to distinguish it from the original design. Version and level display on screen when TigerStop is powered on.
- The controller case itself is made of aluminum and has gaskets at all seams and at the LCD screen to prevent the entry of metal dust or other contaminants.



- There is a yellow pilot light  on the controller to indicate that TigerStop is powered .

Primary Function Keys



Program List is used to **program** cut lists, **hot keys**, and to access **menus**.



Incrém(ént) is used in the operation of the **Increment** function.



Space Calib(rate) is used to enter lengths in feet, inches, and a fraction, to enter numbers with a fraction, to enter negative lengths. It is also used to **calibrate** TigerStop, to select inches or metric dimensions, and to set saw kerf.



Clear is used to clear or erase data entry one digit at a time.



STOP is used to stop any TigerStop operation, to return to the Ready screen, and to exit the Increment function.

START is used...



- To start movement. After entering a length, a hot key, or an increment, START moves the stop to the length entered.
- To accept a length or quantity when entering a cut list.
- To select a hot key length.

Numeric Calculator Keys



The number keys are used to enter values just like those on any calculator.



...are also used to select inches or metric dimensions.

Math Function Keys



MINUS is used to subtract values, to enter negative values, and to view the previous line of data in a cut list.

TigerStop Installation



PLUS is used to add values, and to view the next line of data in a cut list.



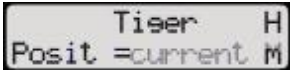
STAR is used to multiply values.



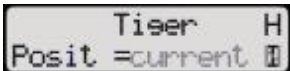
SLASH is used to divide values, and to enter fractions.

Inches or Metric

?➔ What is the screen display telling me?



TigerStop is in Metric mode when **M m** blinks in the lower right corner.

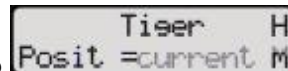


TigerStop is in Inch mode when **I N** blinks in the lower right corner.

➔ To select metric mode...



Press . The Ready screen will change to

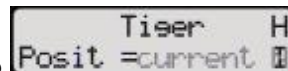


Metric ➔ *In TigerStop Manual documentation, all values are in Inches. Values and examples in Metric are flagged by the Metric arrow and purple text and background.*

➔ To select inches mode...



Press . The Ready screen will change to



Controller Ports

Concept ➔ On the top edge of the controller there are three **ports**. The wide port is for the controller cable. The middle port is for the cable running from your computer to TigerStop. The port closest to the left side of the controller is for the printer cable.

- Level 1 TigerStops will use only the controller cable port.
- Level 2, 3, and 4 TigerStops will use the controller cable and the computer cable ports.
- Level 4 TigerStops will use all three ports.



Controller Cable Facts

1. The SMT controller cable is 6 feet (1.83m) long for TigerStops and 20 feet (6.1m) long for TigerRip Fences.
2. There is only one way to plug in the controller cable: the "male" end plugs into the controller, the "female" end plugs into the port on the side of the motor box.
3. Optional controller cables are available in 20 foot (6.1m) and 30 foot (9.15m) lengths.
4. The controller cable is shipped in the TigerStop accessories box in a pink anti-static bag (Fig. 1) with a warning tag (Fig. 2) that gives instructions on use.

Important!

NEVER bend the controller cable sharply as shown in Fig. 2. It can damage the cable and cause the controller not to communicate with TigerStop.



Fig. 1



Fig. 2

CRITICALLY important!

The TigerStop controller cable is a proprietary cable. You CANNOT replace it with a look-alike cable obtained from a local electronics store. If you try to replace a TigerStop controller cable with any other type, you risk serious damage to your machine!

**"OFF THE SHELF"
PRINTER CABLE**



Connect... ractor B
DB25 M DB25 M
DEAD WRONG!

**N'employez JAMAIS
un câble générique
d'imprimeur d'ordinateur.**



Connect... ractor B
DB25 M DB25 M
Erreur mortelle!

**¡NUNCA use
cables genéricos
para impresoras!**



Connect... ractor B
DB25 M DB25 M
¡Error garrafal!

Basic TigerStop Parts List

PARTS LIST


Your TigerStop should include the following parts:


Part#	Description	Quantity
TS__	TigerStop	1
SA0135	Controller	1
J8010	6' Controller Cable	1*
SA4040	Stop Assembly — Includes the following:	1
	SA4039 Flip-away stop	1
	M1405 Threaded rod	1
	F0300 1/2" nylon lock nut	2
	F0700 3/8" - 16 x 3/4" nylon set screw	2
	F1700 1" nylon washer	2
SA0022	TigerStop Nut Pack — Includes the following:	1*
	F1500 5/16"-18 x 5/8" bolt	8
	F1670 5/16" washer	8
	F0405 5/16"-18 x .620 T-nut	8
CD	TigerStop CD case which includes: <ul style="list-style-type: none"> • CD containing TigerStop Manual 4.6 • CD containing TigerLink 5.0 Demo ** 	1
QRC	Quick Reference Cards	1 set

* Your TigerStop may have a longer controller cable if specially ordered, or additional nut packs if longer than Tiger12.

** TigerLink 5.0 is fully usable only when your TigerStop has been enabled for it. On your packing list, this option appears as TL5.

Installing TigerStop


 Your TigerStop needs it's power clean! Use a line filter on each stop, and be sure that it has it's own 110v 15a grounded power circuit!

Concept  TigerStop is designed to easily adapt to many different applications.


- All four faces of the fence beam, as well as the flip-away stop, have full-length T-slots to make it easy to mount TigerStop to the feed tables.
- Feed table installation may require drilling and tapping holes in a free-standing saw or other equipment.
- Installing Feed Tables gives complete instructions for TigerStop feed table assembly and setup.

TigerStop must be installed in accordance with all local, state, and federal regulations, as well as common sense safety requirements. Use only trained professionals when installing TigerStop with existing equipment to ensure a safe and proper work station that will in no way endanger the operator or any other personnel. Do not operate TigerStop without proper training, both in TigerStop operation, and in the operation of adjoining equipment.

CAUTION! NEVER drill holes into the TigerStop fence beam for any reason!

Concept  TigerStop can be used to the right or left side of a saw or other tool.

- TigerStop is built as a Left-handed machine.
- If you want to use TigerStop on the Right side of your saw, you must reverse the machine.
- This should be done before attaching the flip-away stop...

HowToDolt  It's easy to do, and here's how!

1. With a flat screwdriver or other sharp tool, pry up and remove the orange trim strips from the T-slots on the top face of the fence beam.
2. Place the machine on your feed table with the motor box next to the saw or other tool.
3. Pound the strips back into the T-slots on the (new) top face of the fence beam.

Mounting TigerStop to a Feed Table

Concept → TigerStop feed table design makes mounting a TigerStop easy. No special brackets are needed. TigerStop is mounted directly to the table top! If you are mounting TigerStop to an existing table, use Brackets.

Your feed table should be set up. Installing Feed Tables has complete instructions, if you still need to set up your TigerStop feed tables.

HowToDoIt → On your TigerStop feed table...

1. Place TigerStop on the table top with the motor facing UP and next to your saw or other tool.
2. Standing in front of the table, pull the fence beam toward you, so the slotted mounting holes are visible in the table top BEHIND the fence beam.
3. Insert the T-nuts into the T-slots and slide them down to line up with the slotted mounting holes.
4. Carefully rotate TigerStop so the motor faces to the BACK and the T-nuts are OVER the slotted mounting holes.
5. Place a washer on each bolt, insert the bolts from underneath the table, and hand-tighten them.
Roller-top tables use yellow metal spacers, placed along the length of the fence beam at regular intervals, to raise TigerStop above the level of the rollers.
6. Line up the TigerStop fence beam with the back fence on your saw or other tool.
The slotted holes in the table top let you line up TigerStop accurately.
If your tool is a saw, make sure that TigerStop is square to the saw blade.
7. When your TigerStop is in alignment, finish tightening all the bolts.

CAUTION! Washers **MUST** be used to prevent damage to the fence beam by over-tightening!

FOUR IMPORTANT CAUTIONS

1. Do not randomly drill and tap holes in the TigerStop fence beam for mounting or for any other purpose. This might damage the drive system. All fastening or attachment to the fence beam **MUST** be made by inserting T-nuts & bolts with washers.
2. It is **CRITICAL** — especially if **NOT** using TigerStop attachment brackets (BR3x3) — that the bolts be prevented from tightening through the T-nuts and into the aluminum fence beam. Washers **MUST** be used!
3. Uneven tightening of the bolts used to fasten down TigerStop to its mounting support can introduce a slight twist or other deformation in the beam. This will result in inaccurate measurement and premature failure of the drive belt or other components.
4. The motor box (compartment) contains DC voltage with potentially **FATAL** amperage. **NEVER** attempt any unauthorized actions inside the motor box!

Attaching the Flip-Away Stop

Concept → The flip-away stop is shipped loose in the accessory box and must be attached to TigerStop during installation.

The flip-away stop consists of...

- one (1) yellow powder-coated aluminum flip-away stop
- one (1) threaded rod

In Fig. 1 the threaded rod is not visible, because it is inside the carriage hinge, held in place by the lock nuts.

- 2 nylon washers
- 2 lock nuts
- 2 nylon set screws

Used to level the stop relative to the table.

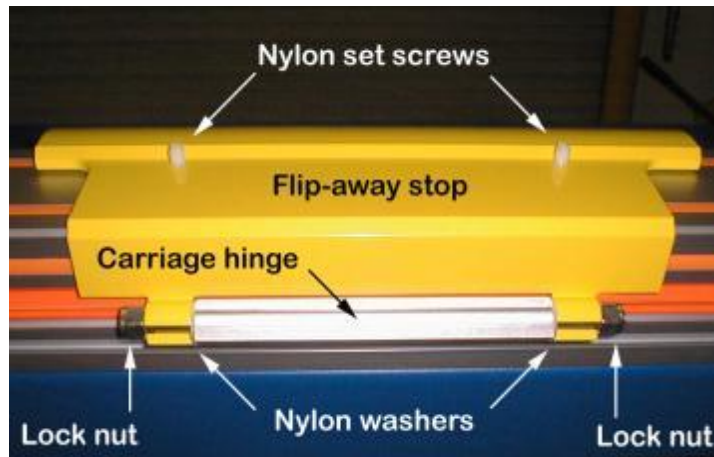


Fig. 1

HowToDolt → Assemble the flip-away to the carriage...

1. Place the flip-away stop over the fence beam and center the carriage hinge between the two ends of the stop hinge.
2. Insert a nylon washer between the carriage hinge and each end of the stop hinge (Fig. 1).
3. Slide the threaded rod through the stop-to-carriage assembly, so it passes through the hinge and the nylon washers.
4. Screw the lock nuts on each end of the threaded rod.

Make sure that the stop can be raised and lowered without difficulty (Fig. 2). It is better that the stop moves with some resistance, rather than very loosely.

5. Adjust the nylon set screws (Fig. 1) in the stop, so it is square and level with the table top.

The flip-away stop should not drag on the table top.



Fig. 2

Line Filter

Description and Use

The line filter (Fig. 1) plugs into a standard 110vAC outlet with the attached line cord. The TigerStop power cord plugs into the outlet located on the side of the filter enclosure. This line filter was selected for use with TigerStop because of its excellent performance. It is recommended that each TigerStop in your facility be equipped with an LF to preserve the “health” and lengthen the life of your TigerStops!



Fig. 1

➡ Only one TigerStop per line filter!

Why Use a Line Filter?

Starting and stopping motors, energizing relays, welding, and other activities can all introduce "noise" into the AC line and may interfere with the operation of TigerStop. This AC Line Filter/Surge Protector greatly reduces "noise" and suppresses power spikes that could harm your TigerStop. Protect your investment!

➡ Important!

The line filter cannot function if the line cords are coiled around other line cords, conduits and pipes conveying moving materials. Figures 2 and 3 show the wrong way and the right way to use the line filter.

NO! — The Wrong Way! ➡

In Fig. 2 the TigerStop power cord is coiled and cable-tied to itself and to the line filter power cord, and then plugs into the line filter. By coiling the line filter power cord into a loop with the TigerStop power cord before plugging it into the power source, the effect of the line filter is cancelled by "noise" introduced from the power source into the TigerStop power cord.

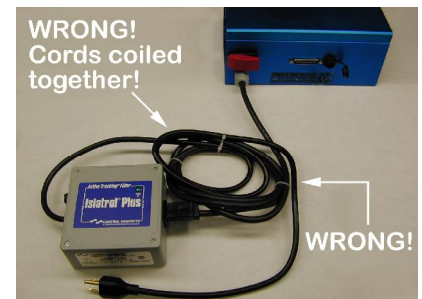


Fig. 2

YES! — The Right Way! ➡

In Fig. 3 the TigerStop power cord is coiled and cable-tied to itself and then plugs into the line filter. The line filter power cord is coiled and cable-tied to itself and then plugs into the power source.

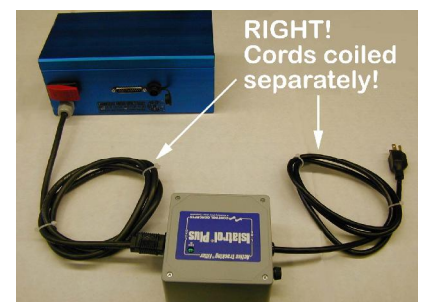


Fig. 3

Control Stand



Fig. 1

Description and Use

The TigerStop control stand is the bracket used for mounting the controller to the top of the TigerStop fence beam or to another support structure.

There are two types of control stand, each with a different base,

When ordered as an SMTCS, the control stand comes with a straight base (Fig. 2).



Fig. 2

When ordered as an SMTCSR, it comes with a 90° elbow bend in the base (Fig. 1). The elbow base type is most often used to mount a TigerRip Fence controller to the vertical side wall of a table saw.



Fig. 3

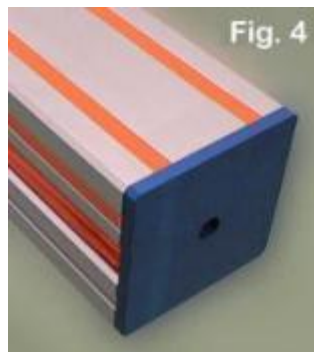


Fig. 4



Fig. 5

TigerStop (but NOT TigerRip Fence) should normally be installed with the motor box next to your saw or other tool (Fig. 3).

We recommend that TigerStop be installed with the motor box closest to the saw or other tool.

If the tool you are using with TigerStop does not have enough clearance to mount TigerStop as shown, mount it with the motor box farthest from the tool, and reverse the zero end. This usually requires the use of a longer controller cable than the one that comes with the machine. Contact TigerStop Customer Service if one is needed.

HowToDolt → To mount the control stand to the top of the TigerStop fence...

1. Remove the orange trim strips by prying them out with an awl or flat-head screw driver.

The T-nuts slide into openings in the end cap at the far end of the fence (Fig. 5) and are used to anchor the control stand base to the top of the beam at the motor (Fig. 3).

2. Position the T-nuts, mount the control stand base, and tighten down.

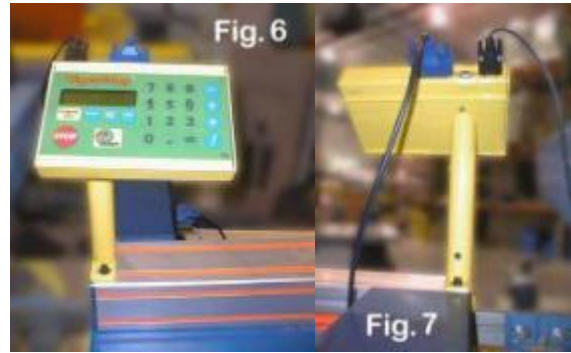
CAUTION! When you tighten bolts into the T-nuts, make sure they do not cut themselves into the aluminum fence beam, as this could result in deformation of the TigerStop and cause inaccuracy and/or mechanical failure.

3. Next, replace the trim strips. Cut off a segment from each strip where the control stand base is mounted, and then pound the trim strips back into the T-slot.

TigerStop Installation

4. Attach the top half of the control stand to the base, and tighten the fastening bolt.

Figs. 6 - 7 show how the controller is attached to the control stand. The controller can be mounted off-center because the "shelf" on which the controller is mounted fits between flanges on the base of the controller that let you slide it left or right.



5. Make any final adjustments, so the controller will be in position for the operator to use comfortably.

Brackets

Description and Use

TigerStop Attachment Brackets are available for mounting a TigerStop to an existing table or other support structure.

They are NOT used with TigerStop feed tables which are designed for direct table-top mounting.

Attachment Brackets have slotted holes for adjustability and each one comes with a hardware pack (Fig. 1) with enough fasteners for one bracket.

➡ How many to use

Use 2 brackets to mount a machine up to Tiger04 (6' gross length), and one additional bracket for each 2' of machine length.

Each BR3x3 bracket is wrapped with one hardware pack taped to the inside corner (Fig. 2). The hardware pack has enough fasteners for one bracket. The hardware pack contains:

- (2) F0110 3/8"-16 x 1" hex bolts
- (2) F0415 3/8" UNC hex nuts
- (2) F1500 5/16"-18 x 5/8" bolts
- (2) F1670 5/16" washers
- (2) F1677 3/8" washers
- (2) F0405 5/16"-18 x .620 t-nuts

Depending on the thickness of the support structure, longer bolts of the same type as those in the nut pack may be necessary.

➡ Installing TigerStop with Brackets

TigerStop has T-slots on all four faces of the fence beam. The T-nuts slip into routed openings at the end of the fence beam and are used to anchor it to the table with the bolts provided. When using BR3X3's to mount a TigerStop to an existing table, the brackets are first attached to the back edge of the table, and TigerStop is mounted to the brackets.

➡ **DO NOT attempt to remove the blue end cap to slide in the T-nuts!**

If you do, you will screw up the tensioning done at the factory, and you will have to re-tension the belt! The right way to slide the T-nuts into the T-slots when attaching the brackets is to insert them at the routed openings (Fig. 3).

To slide T-nuts into the T-slots you have to remove the orange plastic trims from the slots. The trims can be pushed into the T-slots on one of the other faces of the fence beam.



Fig. 1



Fig. 2



Fig. 3

TigerStop Warranty

TigerStop, TigerRip Fence, & TigerStop Accessories

TigerStop products are sold with a 12 month or 2,000 hours of service warranty against defects in material or workmanship when operated in normal environments and under normal circumstances for their intended purpose. Electronics carry a 6 month limited warranty. Consumable items such as belts and paint on wear surfaces are not covered under this warranty.

TigerStop Replacement Parts

Spare parts are sold with a 30 day warranty against defects in material or workmanship when operated in normal environments and under normal circumstances for their intended purpose.

- Same day shipment of most parts will be made for orders received before 2:00 P.M. PST Monday through Friday.
- All **non-warranty** parts are shipped via UPS Ground, unless the customer requests higher service level, and UPS charges will be added to the invoice.
- Within 30 days of purchase, warranty parts are shipped at no charge via UPS Red.
- Warranty parts beyond 30 days of purchase are shipped via UPS Ground at no charge to the customer. If a higher UPS service level is required, the customer will be invoiced for the higher service level less the cost of ground.

Service

Our service technicians are **on duty during regular business hours (360) 254-0661 x238 Mon-Fri 7am~4pm PST (West Coast), service@tigerstop.com at our assembly plant in Vancouver, WA, U.S.A.** All incoming service calls and/or email are acknowledged, and most challenges are resolved, within the same business day. We provide an operation manual with every machine which explains in detail the installation and programming of the TigerStop. All TigerStops and TigerRip Fences are assigned a serial number and all activities concerning every unit are documented for future reference.

Important Notices

TigerStop, TigerFence and TigerCrossCut are machine components intended for use in conjunction with other potentially dangerous machinery. The use of these components does not make that machinery safe. TigerStop LLC's products are not intended to substitute, in any manner, for safety requirements in general, or in conjunction with other machinery. These components must be incorporated into machinery by persons qualified to design safety features to make the machine as safe as possible and to ensure that it meets federal, state and local law with respect to safety and all other regulatory requirements. In addition, TigerStop, TigerFence and TigerCrossCut are machine components that should only be operated by qualified persons trained in safe operating procedures. Illustrations of TigerStop, TigerFence and TigerCrossCut components in use do not show and are not intended to show safety features necessary to make the machinery safe to operate.

Limit of Liability

All rights reserved. The information contained in the TigerStop Manual has been validated and reviewed for accuracy. No patent liability is assumed with respect to the use of the information contained herein. While every precaution has been taken in the preparation of this manual, the manufacturer assumes no responsibility for errors or omissions.

Copyright

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of the manufacturer.

Trademark

TigerStop® is a registered trademark of TigerStop LLC.

These specifications are subject to change without notice.