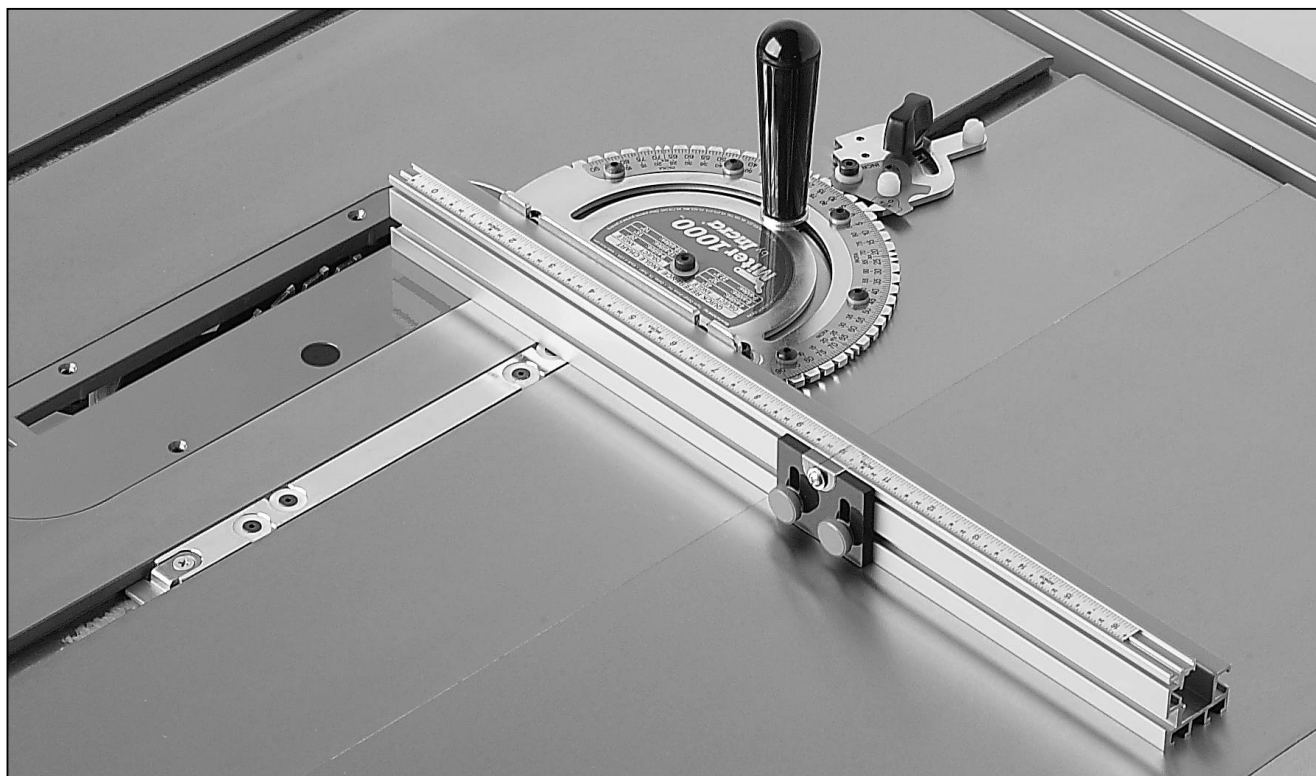


# Miter1000™

by **Incra®** **OWNER'S MANUAL**

*Please read this owner's manual before use and keep it at hand for reference.*



## Warranty

Taylor Design Group, Inc. warrants this product for one year from date of purchase. We will repair any defects due to faulty material or workmanship, or at our option, replace the product free of charge. Please return the failing component only, postage prepaid, along with a description of the problem to the address below. This warranty does not apply to parts which have been subjected to improper use, alteration, or abuse.

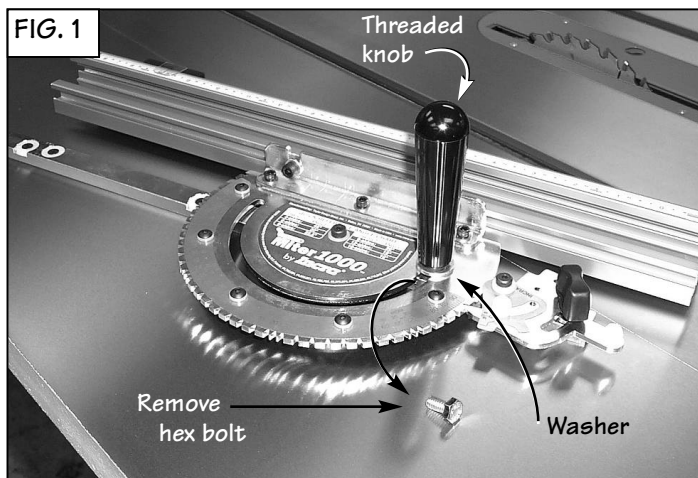
## Safety

*Important safety instructions for using the INCRA Miter1000*

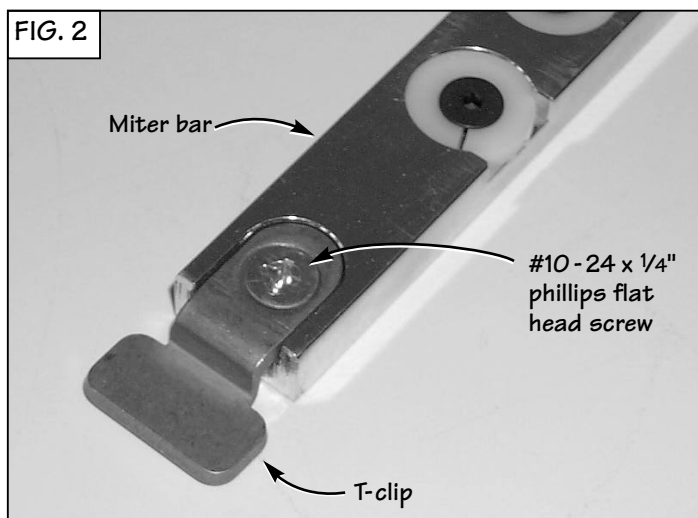
- Before using the Incra Miter1000, read and follow all of the instructions and safety information in this owner's manual.
- When using the Incra Miter1000 in conjunction with any other tool, first read and follow all instructions and safety information in that tool's owner's manual.
- Never let the saw blade come in contact with the aluminum or steel components of the INCRA Miter1000.
- When using the INCRA Miter1000, always keep your hands clear of the saw blade and the line of cut.
- Always turn off the power and make sure that the saw blade comes to a complete stop before changing the setting of any part of the INCRA Miter1000.
- Always securely tighten the large black clamping knob before starting any cut.
- Wear safety glasses, hearing protection, and follow all normal shop safety practices
- After making any adjustments to the miter angle or fence position of your INCRA Miter1000, always verify safe clearance between the blade and fence before turning on the saw
- After making any adjustments to the fence position on the INCRA Miter1000, always make sure that the two socket head screws are securely tightened
- When using the sliding stop to position a piece for a cut, always hold or otherwise clamp the board between the stop and the blade.

## Assembly

- 1 Remove the hex bolt that secures the protractor head and replace with the large threaded knob included in the hardware pack. The washer on the hex bolt must be used with the threaded knob, **Fig. 1**.



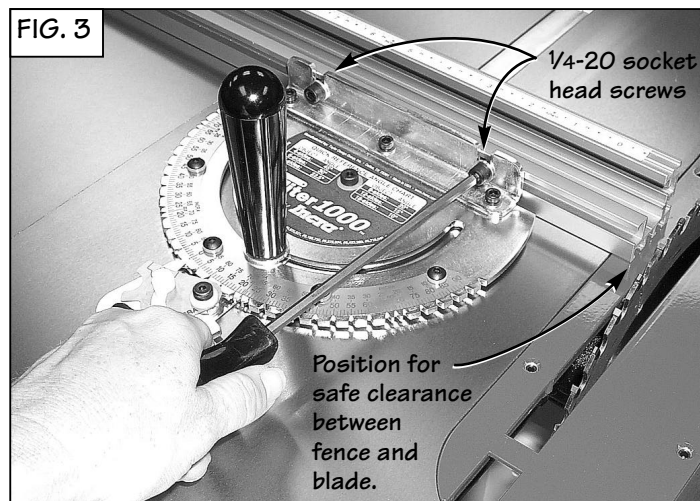
If the Miter slot in your table saw has a T-slot, attach the T-clip to the end of the miter bar as shown in **Fig. 2**.



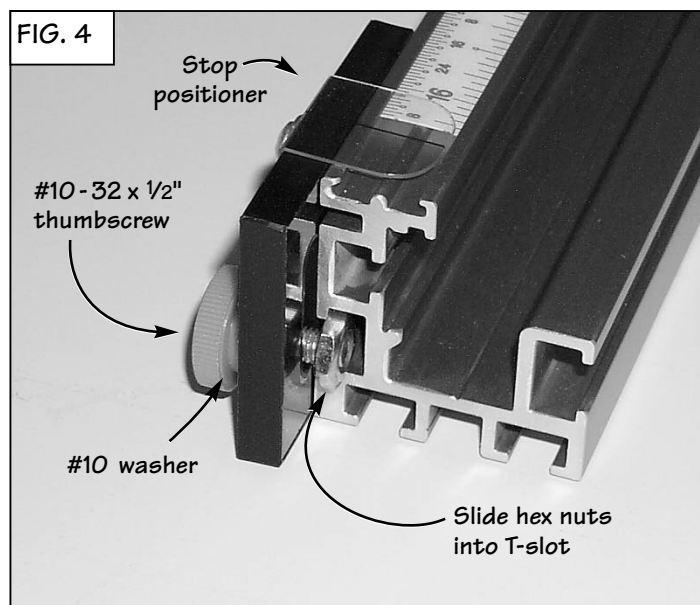
### **TIP** Squaring the fence to your table saw top

The method used to join the fence mounting bracket to the protractor head makes it easy to fine-tune the fence perfectly perpendicular to your table top. To adjust, loosen the (3) #10-24 socket head screws that secure the bracket and slide a paper or plastic shim between the bracket and the protractor head. Placing the shim behind the screws will decrease the angle. Placing the shim in front of the screws will increase the angle.

- 2 Place the INCRA Miter1000 in the left hand miter slot of your table saw. Loosen the (2) 1/4-20 socket head screws that secure the fence to the fence mounting bracket and slide the fence to a position that leaves safe clearance between the end of the fence and the blade. Tighten the (2) 1/4-20 fasteners, **Fig. 3**.



- 3 Using the (2) #10-32 x 1/2" thumbscrews with washers and hex nuts, slide the stop positioner into the T-slot located on the front face of the fence. Tighten the fasteners, **Fig. 4**.

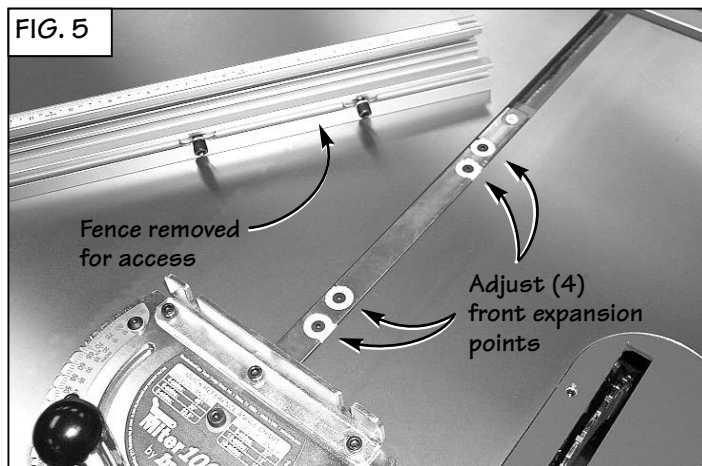


**Note:** The remaining (2) #10-32 x 3/4" phillips screws, washers, and hex nuts in your hardware pack are provided for future use in attaching a wooden zero-clearance auxiliary fence. See page 4 for information on making and using a wooden subfence.

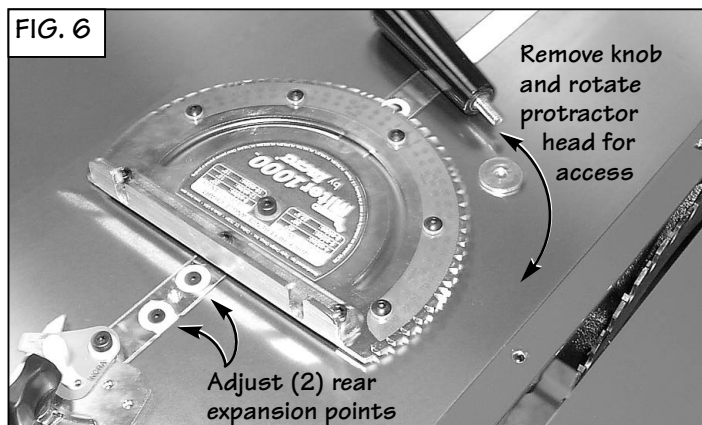
## Calibration

### Adjust the Miter Bar

**1** Adjust the miter bar at each of the (6) expansion mechanism locations for a good fit in your table saw's miter slot. Turning the screw clockwise expands the mechanism. You'll find (3) of the expansion locations in front of the fence and (1) underneath the fence. (You'll need to remove the fence for access.) Adjust these (4) front expansion points first, expanding a little at each of the locations until the bar slides smoothly, **Fig. 5**.



Finally, remove the large clamping knob and pivot the protractor head to gain access to the (2) rear expansion points, **Fig. 6**. Replace the fence, clamping knob, and washer.

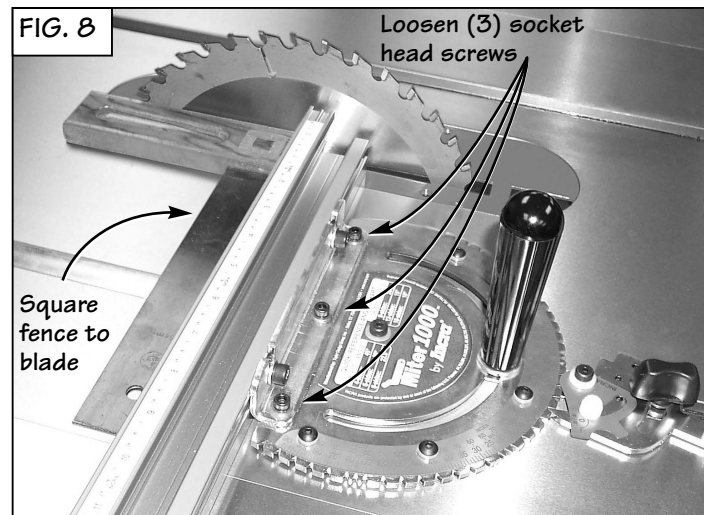


### Adjust Fence Mounting Bracket 90° to Saw Blade

**2** Set the protractor head to read 0°, engaging the tooth on the actuator firmly into the 0° notch on the protractor head, **Fig. 7**. Tighten the large clamping knob and the small actuator thumbscrew.



Using the supplied 5/32" hex key, loosen the (3) #10-24 x 5/16" socket head screws that secure the fence mounting bracket to the protractor head. Unplug your table saw, then use a reliable machinist square to set the fence at 90° to the saw blade, **Fig. 8**. Tighten the (3) socket head screws.

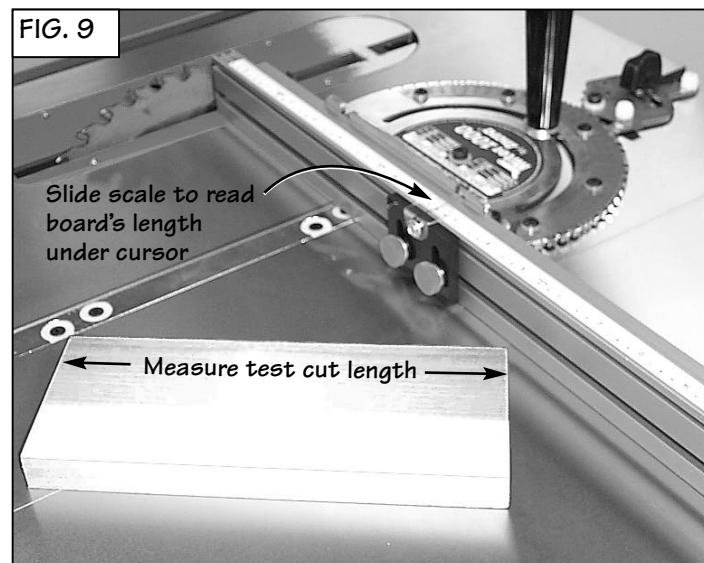


This one-time calibration prepares your INCRA Miter1000 for work in either miter slot. Just remember that the accuracy of the INCRA Miter1000 at any subsequent setting is dependent upon the accuracy of your initial 90° calibration. **Verify this calibration with a test cut and fine-tune as necessary.**

### 3 Zeroing the Sliding Stop to the Blade

Set the protractor head to 0° and clamp the sliding stop to the fence about 10" from the blade. Crosscut a piece of scrap stock with this setup and measure the resulting cut. Slide the scale on the fence to read this measurement under the cursor. **Fig. 9**.

**Note:** To zero the stop for angles other than 90°, the test cut must be made at the selected angle.

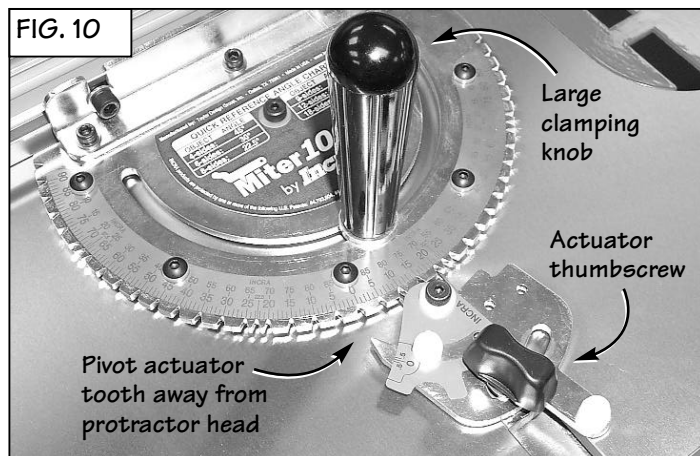




## Operation - Changing Angle Settings

### Five-degree Indexing (including 22.5° and 67.5° settings)

**1** Loosen the actuator thumbscrew and pivot the actuator tooth away from the notches located on the perimeter of the protractor head. Loosen the large clamping knob, Fig. 10.

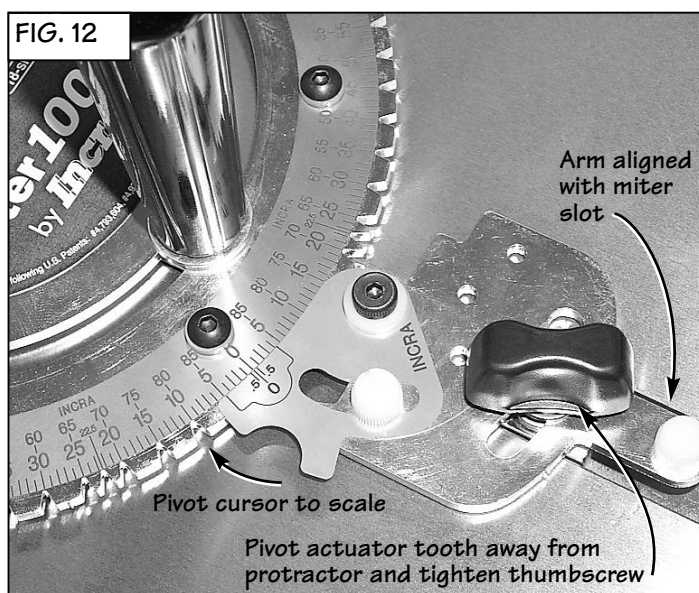
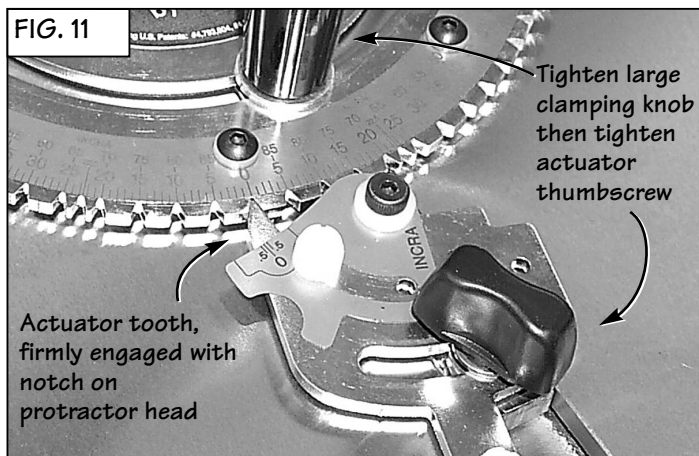


### Continuous Adjustments (for angle settings finer than 5° increments)

Pivot the actuator tooth away from the notches on the protractor head, aligning the arm over the miter slot, and tighten the thumbscrew. Now loosen the small nylon thumbscrew on the actuator and pivot the 1/2° cursor toward the scale. Rotate the cursor until it is aligned edge to edge with the scale and tighten the thumbscrew. When you change miter angles, just align the desired angle on the scale with the "0" cursor line. For 1/2° adjustments align the mark on the scale with the ".5" cursor line. Fig 12.

**Caution:** After making any adjustments to the miter angle of your INCRA Miter1000, always verify safe clearance between the fence and the blade before turning on the saw.

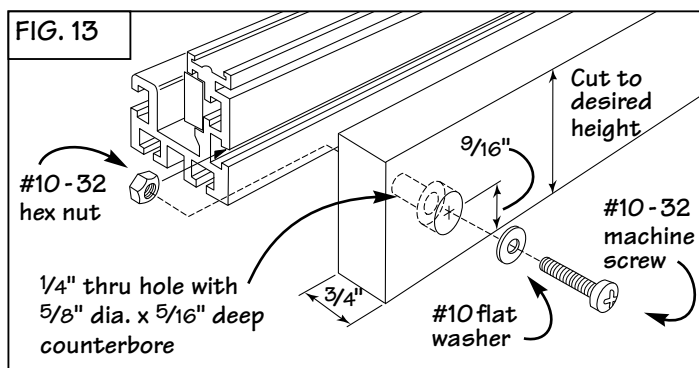
**2** Rotate the protractor head and fence to the desired angle, then firmly engage the tooth on the actuator with the corresponding notch on the protractor head. The actuator tooth should point directly to the desired angle on the scale. Tighten the large clamping knob, then tighten the actuator thumbscrew, Fig. 11.



## Attaching Auxiliary Fences

Adding a wooden subfence to the front of the MITER1000 fence is easy to do and offers several benefits. You can extend the length or height of the standard fence, and by extending the subfence to cross the line of cut, it provides zero clearance backing for tearout control. Use the drill and counterbore dimensions shown in Fig. 13. Adjust the height and length to match your applications. Fasteners are provided in your hardware pack.

**TIP** To increase holding power when crosscutting or mitering, add a strip of adhesive backed sand paper to the front face of your wooden auxiliary fence. Use 150 to 180 grit sandpaper.



Made in America by: Taylor Design Group, Inc.  
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