THE GOLFWORKS®

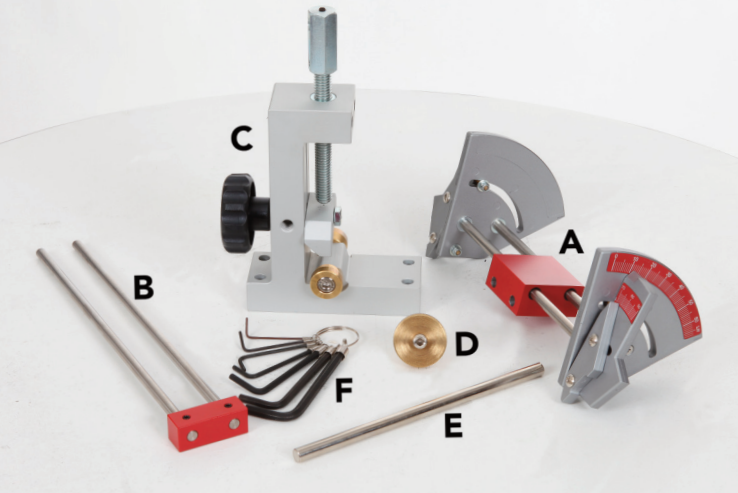
INSTRUCTIONS FOR:

The Economy Bending Machine

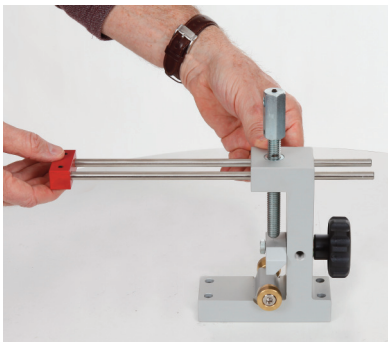
Code: **GW0053**

PARTS LIST:

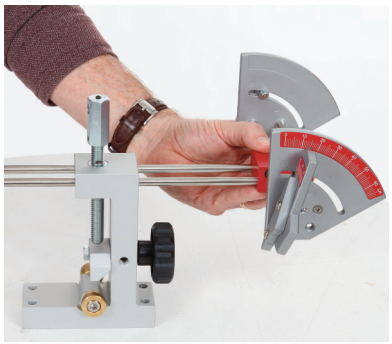
A. Loft and Lie Protractor Assembly
B. Protractor Slide Rods
C. Bending Unit
D. Brass Toe Stop
E. T-Handle Bar
F. Metric Allen Wrench Set



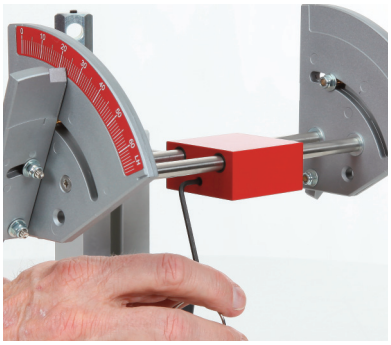
Assembly Instructions:



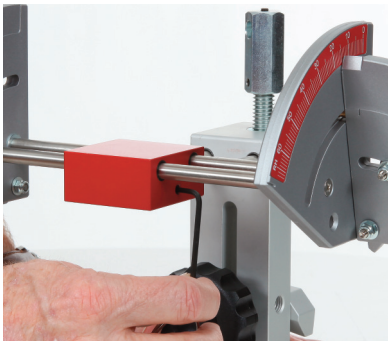
1. Slowly feed the Protractor Slide Rods into and through the two metal sleeves in the Bending Unit. Do not force the Slide Rods into the metal sleeves. The Slide Rods should move back and forth smoothly.



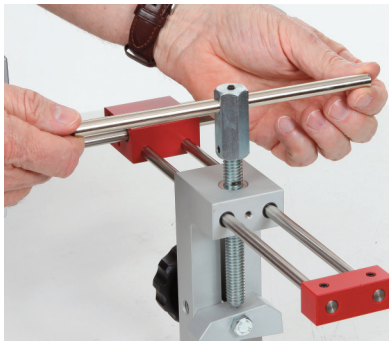
2. Attach the Loft and Lie Protractor Assembly to the Protractor Slide Rods



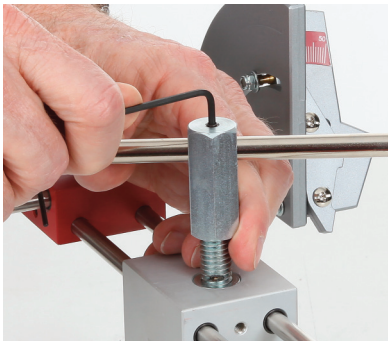
3. Tighten the two Allen Screws on the Loft and Lie Protractor Assembly until snug. Do not over tighten.



4. Tighten the two Allen Screws on the Loft and Lie Protractor Assembly until snug. Do not over tighten.



5. Insert the T-Handle Bar into the Top Line Clamping Jaw bolt.



6. Center the T-Handle Bar and then tighten the Allen Screw on top of the Top Line Clamping Jaw bolt.

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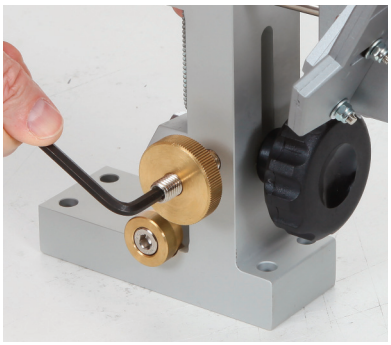
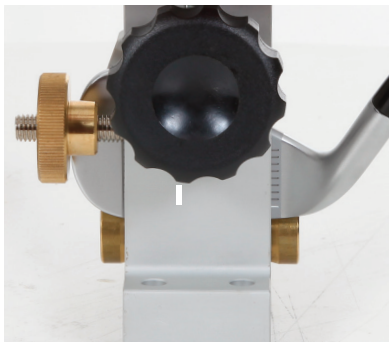


7. Screw the Brass Toe Stop bolt into the side of the Bending Unit using the appropriate Allen Wrench until the bolt is flush with the inside of the Bending Unit

8. Using (4) 5/16" bolts (not included) fasten the Bending Unit to a stable work bench.



Bending Instructions:

1. Unscrew the T Handle to raise the aluminum Top Line Clamping Jaw. Loosen the plastic Mushroom Knob to allow entrance for the iron head.

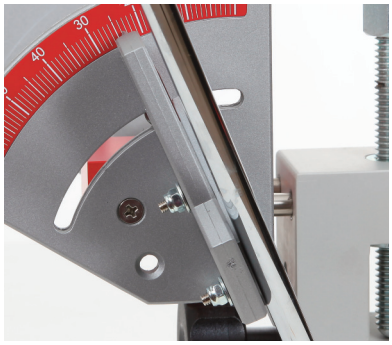
2. Place the iron head into the bending unit toe first with the sole touching both Brass Soling Discs and the face flat against the inside of the upright frame.

Make sure the grooves of the iron head are parallel with the the clamp base (or bench top). You can also reference the edge of the sand-blasted area of the face, making sure the vertical line created by the edge of the sand-blated area is parallel to the vertical edge of the base that the face rests against. Screw the T-Handle down to secure iron head.

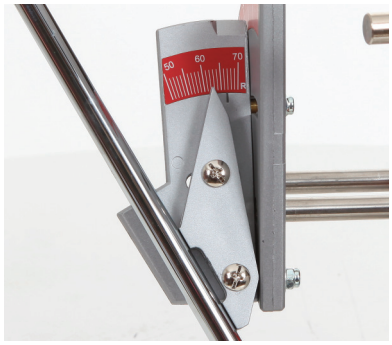
3. Tighten the Mushroom Knob.

4. Turn the Brass Toe Stop until it contacts the toe of the iron head. The head is now secure and ready for measuring and bending.

Reading the Loft and Lie Measurement:



1. With the club head properly positioned in the bending machine, slide the Loft and Lie Protractor Assembly forward until the shaft rests flush against it.



2. Slide the Loft and Lie Protractor Assembly sideways until the two prongs on the Lie Angle Guide are touching the golf shaft.

3. Record the loft and lie measurement.

Bending the Lie Angle of an Iron:

1. Position the bending bar on the hosel below the ferrule so that the bending bar is parallel to the face of the golf club.
2. To flatten the lie angle, press downward on the bending bar.
3. To make the lie angle of the iron more upright, push upward on the bending bar.

Bending the Loft Angle of an Iron:

1. Position the bending bar on the hosel below the ferrule so that the bending bar is perpendicular to the club face.
2. To decrease or make the loft of iron stronger, push upward on the bending bar.
3. To increase or make the loft of iron weaker, push downward on the bending bar.

Note: A short, quick application of pressure or a constant pressure are the two techniques that are most commonly used. The material of the club head and the experience of the user will dictate which technique to use. Not all irons made of the same materials. Some materials are more easily bent than others. The only sure way to determine whether an iron can be bent is to try it. Generally, 17-4 stainless and 431 stainless heads can be bent up to 2 degrees. Depending on the heat treatment of the material, some may be bent more than 2 degrees and some may not be bendable at all. Most Carbon Steel heads can be bent more than 2 degrees. Again, the only sure way to tell is to put the club in the machine and apply a constant pressure. You should be able to tell instantly if the club head is bendable or not. Using old clubs to practice is a great way to develop the feel required to accurately and properly bend irons.

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