

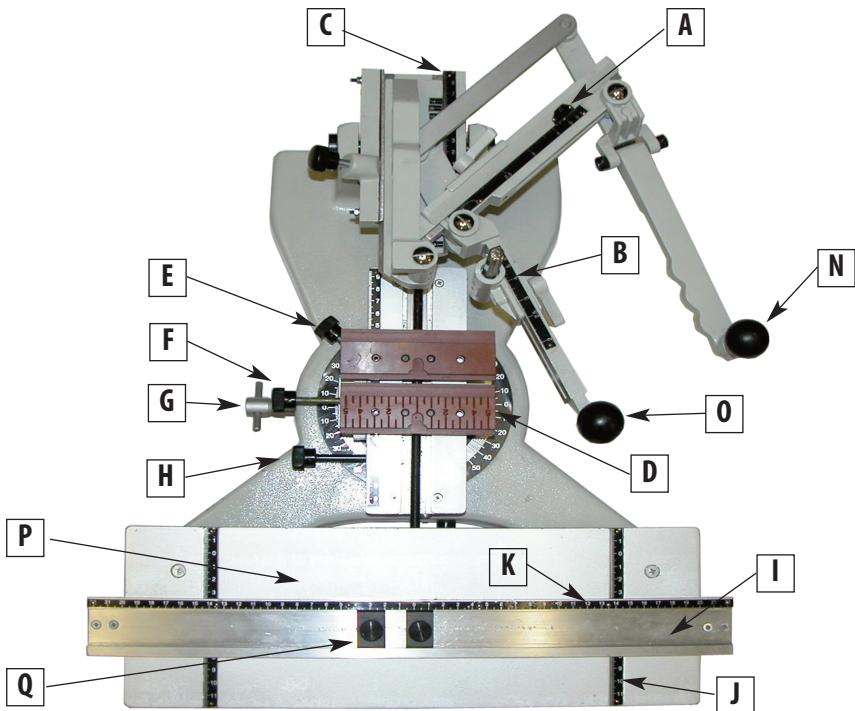


Instructions for
DIAMOND TIP FLAT ENGRAVING MACHINE
No. 26.815

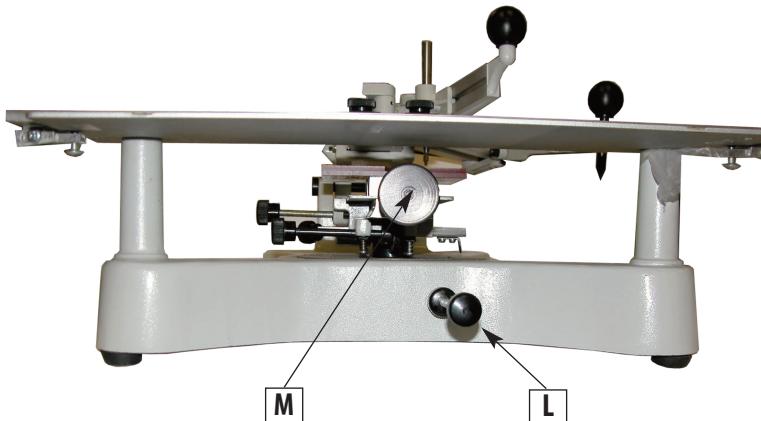
This portable machine is extremely versatile. Its principal use is engraving on medals, bracelets, pendants, pet and ID tags, keys, pens, trophy plates, watches, lighters and various metal labels.

Its diamond tipped stylus cuts a deep, lasting, and brilliant image.





A	Ratio Scale	K	Type Centering Guide
B	Ratio Scale	J	Type Table Scale
C	Slide Scale	L	Pantograph Tension Adjustment Screw
D	Universal Vise	M	Universal Vise Tightening Screw
E	Side-to-Side Tightening Screw	N	Tracing Stylus
F	Front-to-Back Tightening Screw	O	Engraving Stylus
G	Vice Angle Tightening Screw	P	Type Table
H	Front-to-Back Movement Screw	Q	Type Holder
I	Type Holder		



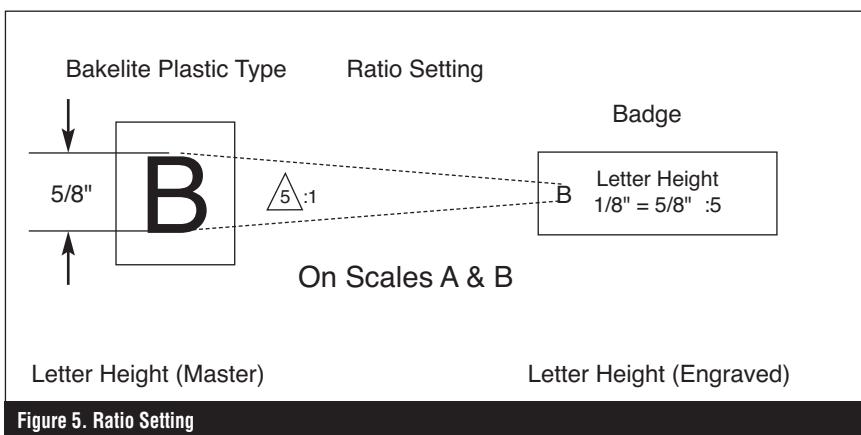
How to Choose the Ratio Setting

The type set in this kit has a letter height of 5/8". When you determine the desired height of the engraved letter, divide that number into 5/8". As an example, if you want the finished letter to be 1/8", you divide 5/8" (.625) by 1/8" (.125) with a result of 5. The ratio setting for a 1/8" high letter is 5.

The width of the finished engraving will also be reduced by the same ratio.

Type Size	PANTOGRAPH SETTING										
	1	2	2-1/2	3	3-1/2	4	4-1/2	5	6	7	8
5/16"	5/16"	5/32"	1/8"	7/64"	3/32"	5/64"	.070"	1/16"	.052"	3/64"	.039"
1/2"	1/2"	1/4"	3/16"	11/64"	5/32"	1/8"	7/64"	3/32"	5/64"	.071"	1/16"
5/8"	5/8"	5/16"	1/4"	7/32"	3/16"	5/32"	9/64"	1/8"	7/64"	3/32"	5/64"
1"	1"	1/2"	13/32"	11/32"	9/32"	1/4"	7/32"	11/64"	13/64"	9/64"	1/8"
1-1/2"	1-1/2"	3/4"	19/32"	1/2"	7/16"	3/8"	21/64"	19/64"	1/4"	7/32"	3/16"
2"	2"	1"	13/16"	21/32"	9/16"	1/2"	7/16"	13/32"	21/64"	9/32"	1/4"
2-1/2"	2-1/2"	1-1/4"	1"	13/16"	23/32"	5/8"	9/16"	1/2"	27/64"	23/64"	5/16"
4"	4"	2"	1-19/32"	1-11/32"	15/32"	1"	57/64"	51/64"	43/64"	37/64"	1/2"
6"	6"	3"	2-13/32"	2"	1-23/32"	1-1/2"	1-21/64"	1-13/64"	1"	55/64"	3/4"

Figure 5. Ratio Setting



How to Engrave

1. Set the Type Holder “I” on the Type Table “P”. Use the Type Table Scale “J” as a reference to set the holder straight.
2. Loosen one end stop “Q” of the Type Holder and slide it out. Slide the letters you want to engrave into the Type Holder. Slide the end stop back in place. Use the Type Centering Guide “K” to center the type. Both end stops should be at the same numbers.
3. Once you have determined the Ratio Setting you want, set both scales “A” and “B” to that setting. (or: Set both Ratio Scales “A” and “B” to the Ratio Setting you have selected.)
4. Mount the piece to be engraved in the Universal Vise “D”.
5. Use the Front-to-Back Movement Screw “H” to adjust the position of the Vise “D”, so that the engraving will be in the desired place.
6. Move the engraver arm so that Tracing Stylus “N” is in the groove of the first letter to be engraved
7. Press down on Engraving Stylus “O” until it makes contact with the piece to be engraved.
8. Trace the first letter.
9. Release stylus “O” and move Stylus “N” to the next letter. Repeat Steps 6 through 8.

Use the Pantograph Tension Adjustment Screw “L” to adjust the pressure required to press down the Engraving Stylus.

Use Slide Scale “C” as your reference for repeat jobs.

Loosen Vice Angle Tightening Screw “E” to slide Universal Vise “D” side to side. Tighten Screw “E” when Vise “D” is in the desired position.

Loosen Vice Angle Tightening Screw “G” to rotate Universal Vise “D.”

Move Universal Vise “D” forward or back to engrave multiple lines.



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