The 456 TR-Bender is used to bend 1/4", 5/16" and 3/8" soft tubing.

⚠ WARNING Always wear safety glasses to reduce the risk of eye injury.

General Use

1. Rotate the shoe handle out of the way and position the tube in the appropriate groove in the form handle. Be sure that the tube engages the tube latch *(Figure 1).*
2. Rotate the shoe handle into contact with the tube, and rotate the shoe handle around the form handle so that the "0" line on the shoe handle aligns with the desired degree of bend on the form handle *(Figure 2)*.

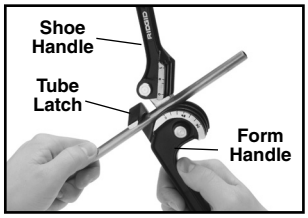

Figure 1

Figure 2

Measured Bends Relative to Other Features (Tube ends, Bends, etc.)

For 90° Bends:

- Mark the tube at the desired distance (X) from the feature (end of tube, bend, etc.). The center of the leg of the bend will be this distance from the feature.
- Place the tube in the bender as described in *Step 1* above.
- If the feature is to the **LEFT** of the mark *(see Figure 3 – Before),* align the mark on the tube with the "**L**" line on the shoe handle.
- If the feature is to the **RIGHT** of the mark *(see Figure 4 – Before)*, align the mark on the tube with the "**R**" line on the shoe handle.

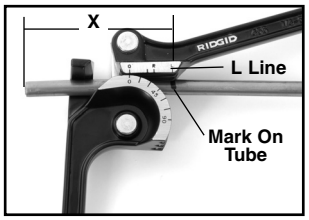

Figure 3 – Before

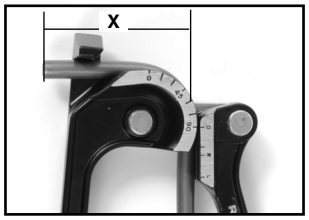

Figure 3 – After

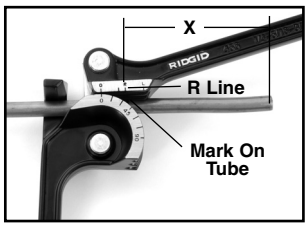

Figure 4 – Before

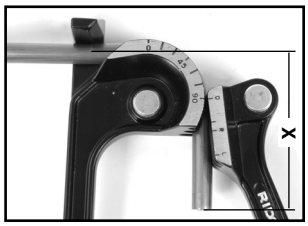

Figure 4 – After

- With the mark on the tube appropriately aligned, move the shoe handle so that the "0" line aligns with the 90 degree line on the form handle. *(See Figures 3 and 4 – After).*

For 45° Bends:

- Mark the tube at the desired distance (X) from the feature (end of tube, bend, etc.). The center of the arc segment will be this distance from the feature.
- Place the tube in the bender as described in *Step 1* above.
- Align the mark on the tube with the unlabeled line on the shoe handle *(see Figure 5)*.

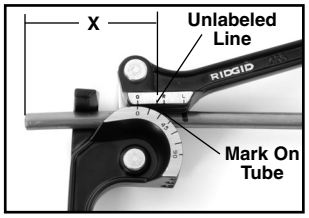

Figure 5 – Before

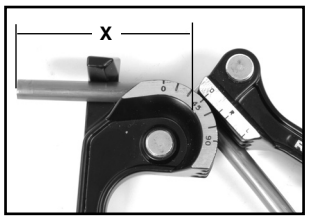

Figure 5 – After

- With the mark on the tube appropriately aligned, move the shoe handle so that the "0" line aligns with the 45 degree line on the form handle.

If you have any question concerning this Ridge Tool product:

- Contact your local RIDGID distributor.
- Visit www.RIDGID.com or www.RIDGID.eu to find your local Ridge Tool contact point.
- Contact Ridge Tool Technical Services Department at techservices@ridgid.com, or in the U.S. and Canada call (800) 519-3456.

Cintreuse 456 Tri-Bender : Mode d'emploi

La cintreuse 456 Tri-Bender sert au cintrage des tubes recuits Ø 1/4", 5/16" et 3/8".

⚠ AVERTISSEMENT Le port systématique de lunettes de sécurité s'impose afin de limiter les risques de blessure oculaire.

Utilisation générale

1. Relevez la poignée de cintrage afin de positionner le tube dans la rainure appropriée de la poignée à galet. Assurez-vous que le tube s'engage bien dans la bride *(Figure 1)*.
2. Rabattez la poignée de cintrage jusqu'au tube, puis fermez-la contre la poignée de gabarit jusqu'à ce que le repère « 0 » de la poignée de cintrage s'aligne sur le repère d'angle de cintrage approprié de la poignée à galet *(Figure 2)*.

Figure 1 **Figure 2**

Shoe Handle – Poignée de cintrage
Tube Latch – Bride
Form Handle – Poignée à galet

Repérage de l'axe de cintrage par rapport à un élément donné (embout de tuyau, coude, etc.)

Coudes à 90°

- Repérez l'axe de cintrage (X) en marquant le tube à la distance voulue d'un élément existant (embout de tuyau, coude, etc.). Ceci donnera l'axe de la partie coudée du tuyau.
- Positionnez le tube dans la cintreuse comme indiqué à *l'article 1*.
- Si l'élément existant se trouve à la **gauche** du repère tracé sur le tube *(Figure 3 – Avant)*, alignez le repère sur la ligne « **L** » de la poignée de cintrage.
- Si l'élément existant se trouve à la droite du repère tracé sur le tube *(Figure 4 – Avant)*, alignez le repère sur la ligne « **R** » de la poignée de cintrage.

Figure 3 – Avant (Before) **Figure 3 – Après (After)**

L Line – Ligne L
Mark On Tube – Repère du tube