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# MODEL AR LEADSCREW SAFETY COVER FOR LATHES INSTALLATION GUIDE



Thank you for the purchase of our leadscrew guard. We have made this installation guide to help you set up and use this product. This guide assumes that you are familiar with drilling, tapping, and fabricating simple brackets. If you need any extra help, please call us at 574.318.4333.

#### IDENTIFICATION OF COMPONENTS

- Each AR set comes with one left and one right roller blind assembly.
- To distinguish between a left or right AR assembly, Refer to figure 1 for the identification photo.

AR metal box sizes depend on blind length and height. The big ARs can be massive – take care of lifting and installing these boxes.



*Figure 1  
Model AR1500 shown*

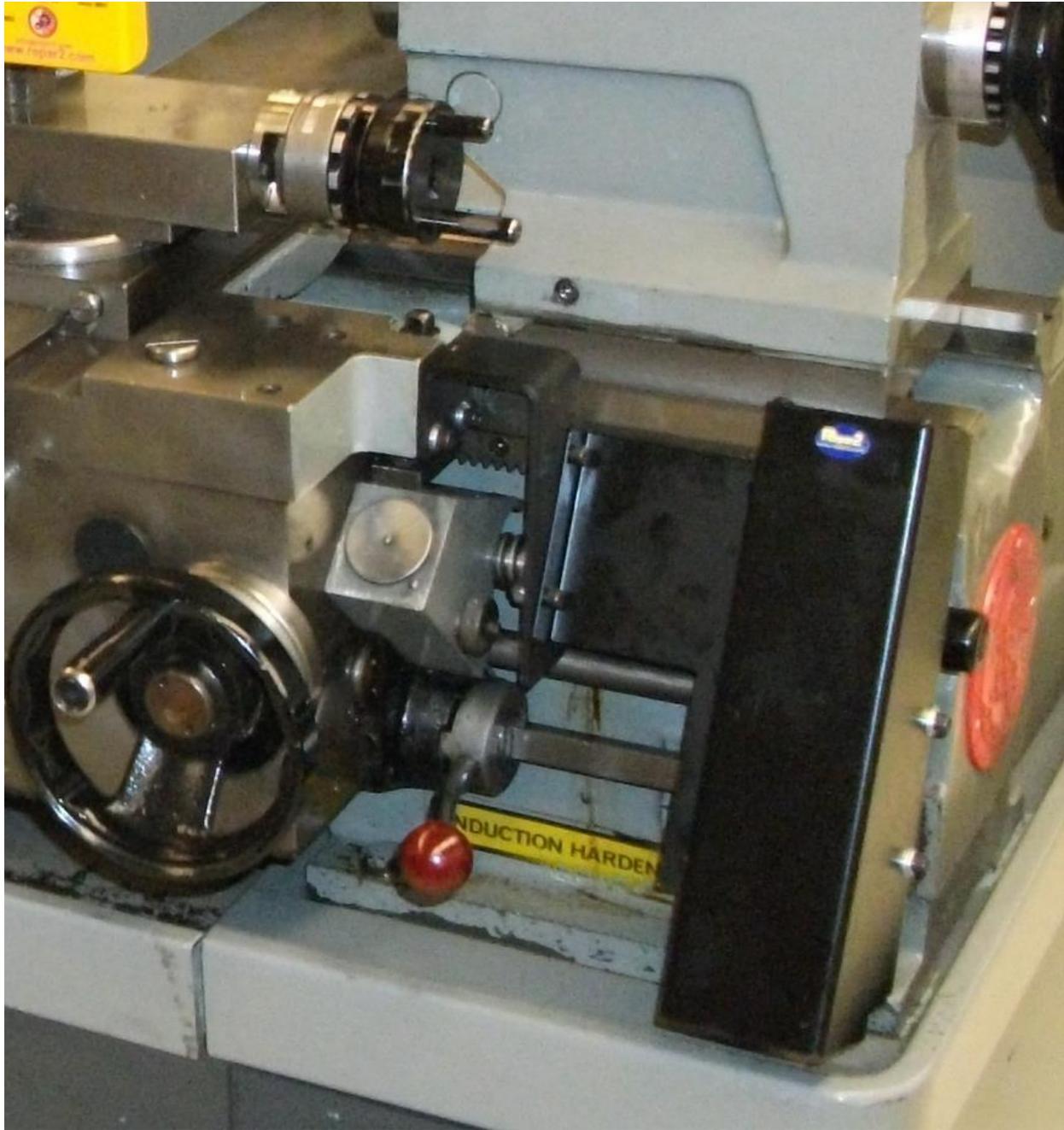
**Warning - Do not disassemble the metal box. There is a spring under tension!**

## INSTALLATION

See figure 2 for a sample installation. In the case of the lathe in figure 2, a special bracket has been used to bypass the threading dial. See figure 3 for a closeup photo of the right side AR and bracket. You may need to manufacture one or more custom bracket(s) as needed.



*Figure 2  
Lathe with AR lead screw guard installed.*



*Figure 3*  
*Detail of right-side AR and manufactured bracket made to go over threading dial*

Note the box installation, which is on an angle. Install the AR boxes on an angle to minimize the open space between the blind and lathe. Experiment with different positions to see what works best in your case.

If more convenient, the AR metal boxes can be installed on the carriage and turned upside down. You may cut the AR bracket to accommodate the machine profile.

You must drill holes in the blind bracket and metal box brackets. Use ¼"-20 or 5/16" Allen socket bolts for mounting. Drill and tap directly into the machine. See figure 4 for a closeup photo of the right-side AR metal box installation.

Care must be taken not to drill through the headstock or carriage gearbox. Take special care with gearboxes that have oil inside them.



*Figure 4*  
*Close up photo of right-side AR installation*

Make sure that during installation, the blind is perpendicular to the roller/metal box to ensure proper rewinding on the roll.

### 3. Maintenance & Adjustment

The internal spring tension can be adjusted if required using the following steps:



1. Insert a 4mm hex key wrench into the set screw at the bottom of the assembly. Turn the wrench clockwise until you feel resistance. (Left photo)
2. While holding light tension on the 4mm hex key, unscrew the two screws on the opposite end of the assembly using a 5mm hex key wrench. (Bottom photo)
3. When step 2 is complete, increase the tension on the internal spring by turning the 4mm hex key clockwise. When you have reached the desired tension, replace the two screws in step 2, and release the 4mm hex key.

**Important:** Be very careful! – do not release the 4mm hex key at any time. The two screws in step 2 hold all the tension of the spring. Once you have removed the 2 screws, the only thing holding back the spring is the 4mm hex key wrench.

