

## Installation instructions for Repar2 model AR lead screw protection.



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Thank you for your purchase of our Repar2 lathe safety guard system. You now have the highest quality lead screw/bar stock safety system available. The AR boxed roller units are designed to be easily installed and provide years of trouble free service. The high quality blind fabric prevents access to rotating parts.

Tools required for installation:

- Drill
- 5.0mm drill bit
- M6 tap, tap wrench and bolts
- Set of metric and SAE Allen keys

Optional Colchester fitting kits are available (not supplied as standard but available from stock)



Colchester fitting kits 24638c for lathe tray fixing shown above (optional and not included with standard AR boxed roller unit supply)

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Installation instructions for Repar2 model AR lead screw protection.

## 1. Identification

Each AR set comes with one left and one right roller blind assembly. Each assembly consists of a metal box, blind, roller/spring and blind bracket. The blind, roller and spring are located inside the closed metal box of each left/right assembly. To distinguish between a left or right AR assembly, take a look at the bracket attached to the blind. The left assembly will have a straight bracket attached to the blind. The right assembly will have a larger, "L" shaped bracket attached to the blind. The "L" shape bracket is used so as not to interfere with the spindle clutch lever. The left side assembly is installed between the head stock and carriage. The right side is installed between the carriage and tailstock. Please refer to figure 1 for identification photo. For very large lathes or lathes with a movable lead screw support, three AR assemblies may be used.

AR metal box sizes depend on blind length and height. Care must be taken with large AR's as they are heavy.



*Figure 1  
Model AR1500 shown*

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

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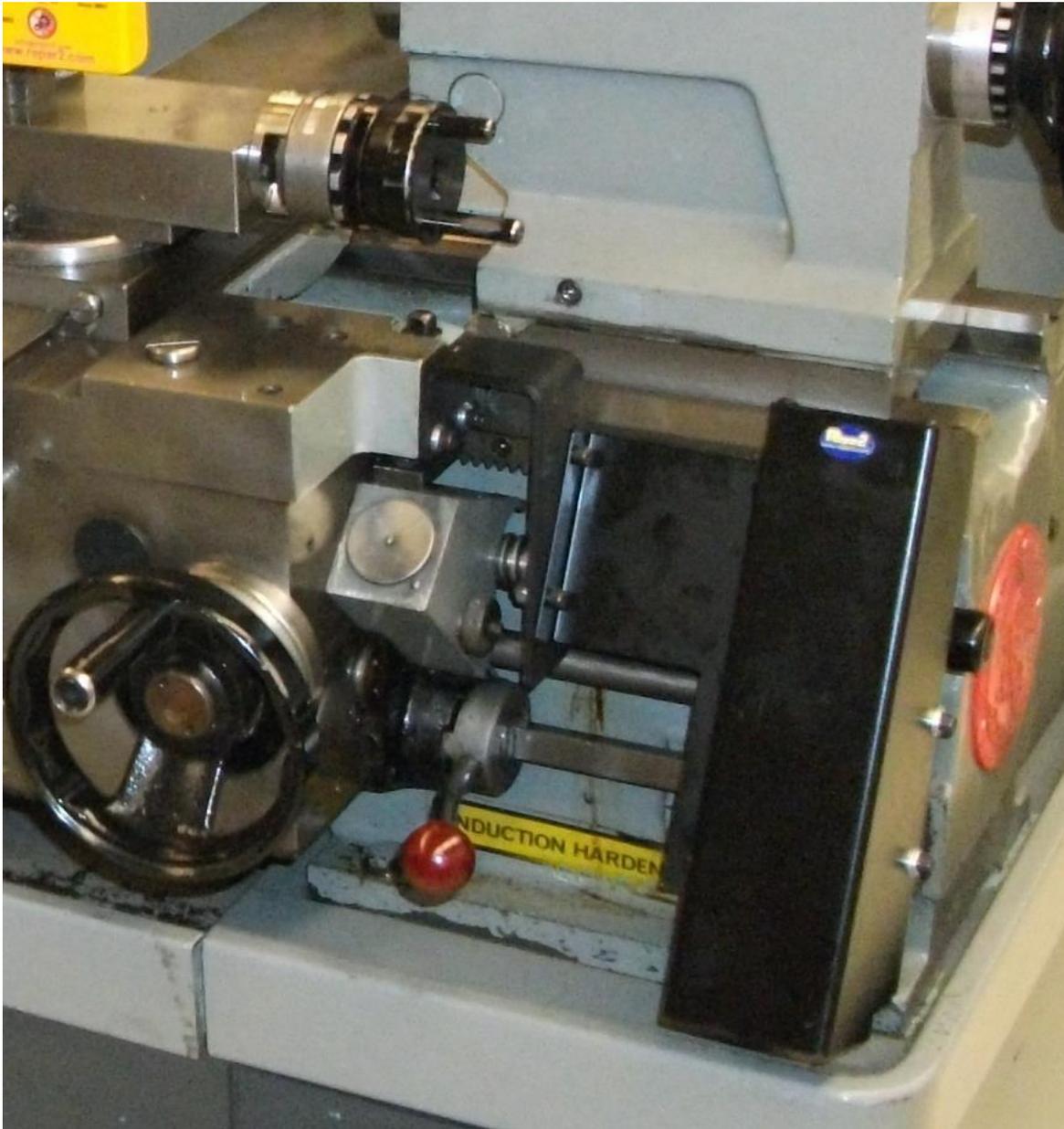
## 2. Installation

Because of the great differences between each lathe design, each AR installation will be different. See figure 2 for sample installation. In the case of the lathe in figure 2, a special bracket was manufactured to bypass the threading dial. See figure 3 for a close up 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.**  
**Note that carriage is moved all the way to the right side**

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

Note that the AR has been installed on an angle. This was done in order to minimize the space between the lathe and top portion of the blind. Experiment with different positions to see what works best in your case. This is only a sample installation. If more convenient, the AR's metal boxes can be installed on the carriage and turned upside down. The brackets on the AR's metal boxes can be cut to accommodate the machine profile. You must drill your own holes in the blind and metal box brackets. Use M6 Allen socket bolts for mounting. Drill and tap directly into the machine. See figure 4 for a close up shot of the right AR metal box installation.

Care must be taken not to drill completely into the headstock or carriage gearbox.

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

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

### **3. Maintenance**

**Wipe clean with cloth. Soap and water may be used.**

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The picture above details a fully compliant Colchester lathe that meets all of the requirements laid out in the current C standards for a manually operated lathe.



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Available AR box and blind dimensions are shown below.

Pair of AR 500 x H100 - Box A60 x B60 x C120  
Pair of AR1000 x H150 - Box A75 x B75 x C200  
Pair of AR1500 x H150 - Box A75 x B75 x C200  
Pair of AR1500 x H200 - Box A75 x B75 x C275 - stock item  
Pair of AR2000 x H200 - Box A75 x B75 x C275 - stock item  
Pair of AR3000 x H250 - Box A80 x B80 x C300 - stock item  
Pair of AR4000 x H250 - Box A105 x B105 x C300  
Pair of AR5000 x H250 - Box A105 x B105 x C350  
Pair of AR4000 x H300 - Box A105 x B105 x C350  
Pair of AR5000 x H300 - Box A105 x B105 x C400  
Pair of AR6000 x H350 - Box A140 x B140 x C450

