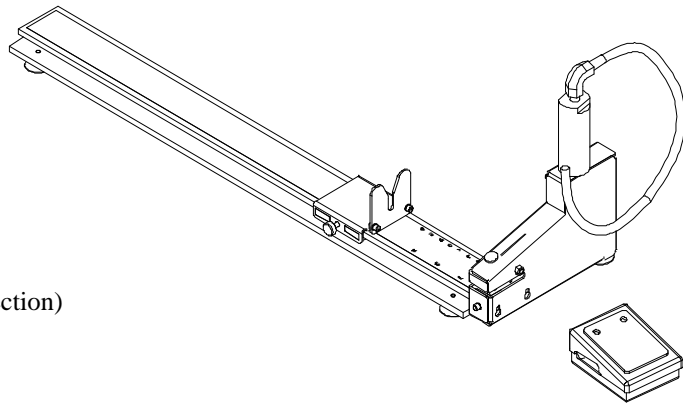


# LT300 Setup Instructions

**Safety Warning:** This device has been designed to minimize operator exposure to moving parts as long as it is properly assembled. **Do not** operate the cutter with the housing cover removed or with fingers placed in the wire access opening.



## Tools Required

- ◆ 7/64" allen wrench
- ◆ 9/64" allen wrench (T handle preferred)
- ◆ 7/16" open end wrench (for air supply connection)

## Assembly

The LT300 Cutter Housing and Footswitch Assembly come completely assembled. Depending on operator preference, the Rail Assembly can be installed on either side of the Cutter Housing. The numbers in ( ) refer to parts shown in the exploded view drawing.

- 1 Align the two 8-32 screws (9) on the Rail Assembly (1) with the keyhole slots on the Cutter Housing, and insert the screw heads into the slots. Slide the Rail Assembly up until the slots in the housing disappear. The bottom of both the Cutter Housing and the Rail Assembly should be flush.
- 2 Tighten the 8-32 mounting screws by inserting a 9/64" allen wrench through the keyhole slots on the opposite side of the cutter housing. These mounting screws have a thread-locking feature which makes them somewhat hard to tighten. Due to the width of the Cutter Housing, the long end of some "L shaped" allen wrenches may be required to reach the screw heads.
- 3 Assemble the wire guide (14) to the slide (11) using 6-32 x.25 long screws (16) and lockwashers (15). Tighten using the 7/64" allen wrench.
- 4 Insert the Slide Assembly on the top plate of the Rail Assembly with the wire guide toward the Cutter Housing.
- 5 Insert the thumbscrew (12) in either side of the Slide.
- 6 Add quick disconnect fitting (not supplied) to the free end of the footswitch hose. **Do not use fittings with integral shutoff.**

## Operation

- 1 Connect the LT300 to a regulated air supply. Pressure should be at least 15 psi but not more than 100 psi. Most applications require less than 30 psi and operation will be quieter at lower pressure.
- 2 Position the slide with the Wire Guide front face aligned with the number corresponding to the desired length of cut, and tighten the thumbscrew.
- 3 Confirm cut length using a scrap piece of wire. Note any deviation from desired length and adjust wire guide accordingly.

Note: Repeated impact to the Wire guide may cause the Slide Assembly to move. Re-verify cut length at regular intervals. For lengths above 22 inches, the Slide Assembly may be installed with the wire guide positioned away from the cutter housing. In this position, the cut length must be set using an alternate ruler.

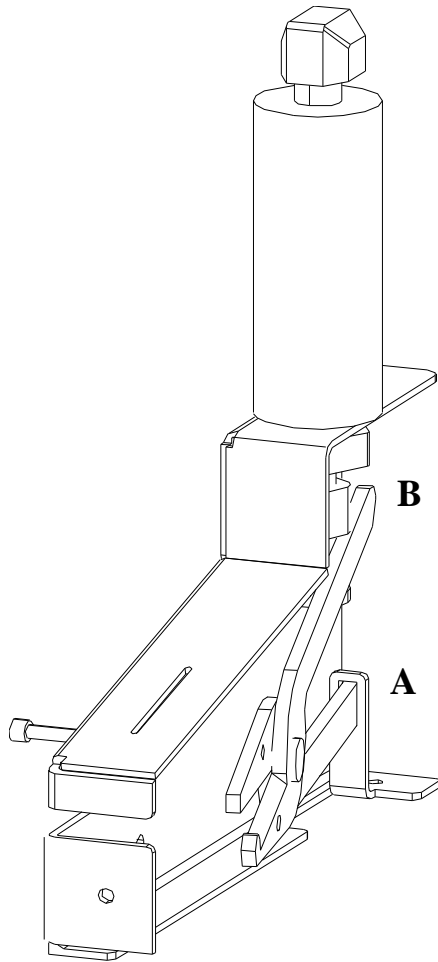
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# LT300 Cutter Blade Replacement



**Warning:** Air supply must be disconnected before servicing. After disconnecting air, cycle the footswitch to insure that all air has been bled from the supply lines.

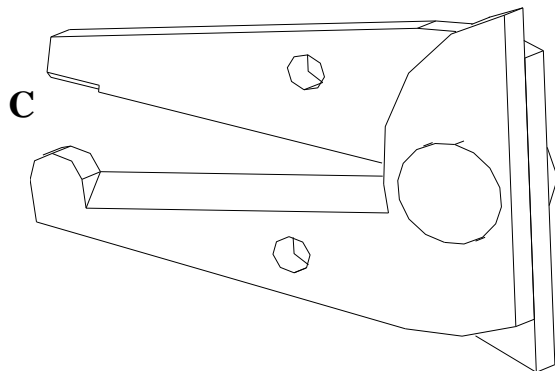
**Note:** It is not necessary to remove the slide assembly for this service. The numbers in ( ) refer to parts shown in the exploded view drawing.

- 1 Remove the three 6-32 x .38" long socket cap screws / lockwashers (8, 15) using a 7/64" allen wrench.
- 2 Remove the lock nut from the 6-32 x 1.38" long socket cap screw (7, 7A) holding the cutter in place, using a 7/64" allen wrench and a 5/16" end wrench. Slide the screw out about 3/4".
- 3 Carefully remove the side cover (3) exposing the cutter (6). Please note that one cutter handle is retained by a slot (A) in the the cutter support housing (4) and the other handle rests in the yoke opening (B).
- 4 Rotate the cutter away from the Cutter Support Housing as shown and slide the cutter out of the slot.
- 5 Install the new cutter, and insert the long mounting screw (7) far enough to locate the cutter. The screw must go through the hole in the cutter face in order to properly align the cutter blade to the housing.

**Note:** The yoke must be forced down slightly to allow the cutter handle to fit in the yoke opening. An easy way to do this is to press down on the top of the cutter handle (beyond the yoke at B) until it drops into the yoke opening.

- 6 Reinstall the side cover, locknut, and three mounting screws / washers.
- 7 Reconnect air supply and check for proper operation.

Replacement cutters are available from **Caveman Design, Inc (p/n 1035)**. This is a package of 4 modified cutters and one mounting screw / locknut. The basic cutter is available from most electronic supply houses, but may need to be modified to allow clearance for wires in the housing slot. Please note that the "button" (C) at the end of the top blade must be removed. (bottom button optional) Also, to prevent potential interference, a small chamfer should be added to the inside edge of the cutter where the "button" was.



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# LT300 Setup Instructions

## Vertical Mounting Option

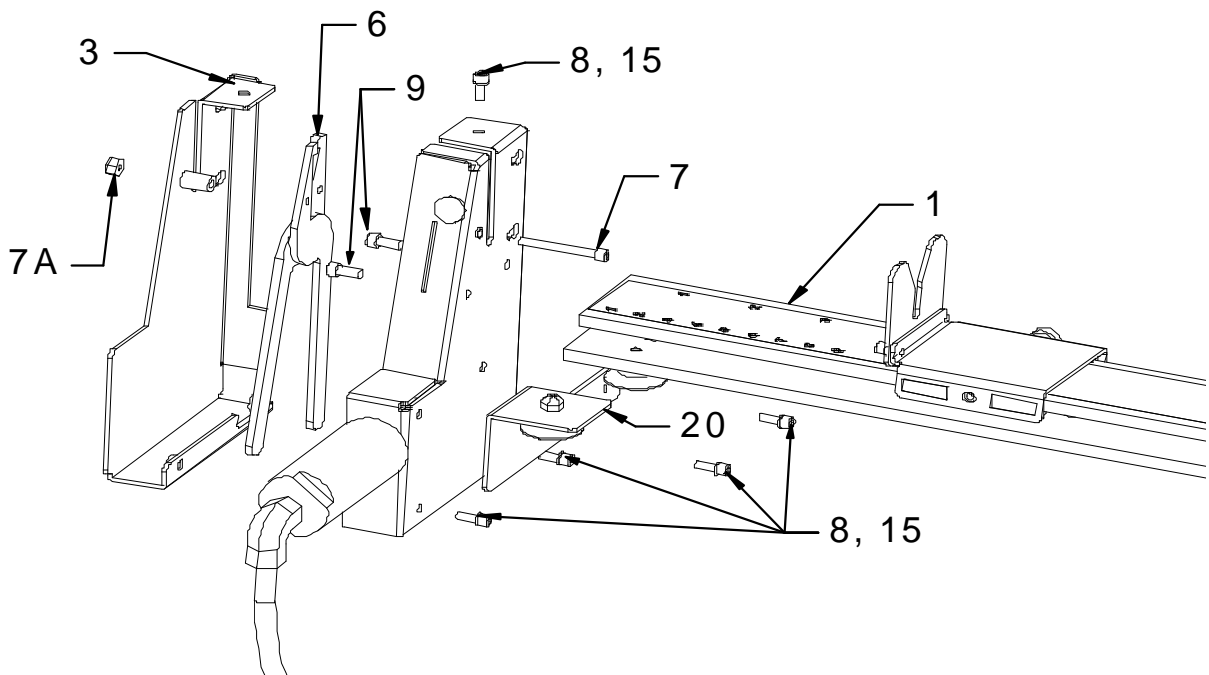
### Tools Required

- ◆ 7/64" allen wrench
- ◆ 9/64" allen wrench (T handle preferred)
- ◆ 5/16" end wrench

The cutter head can be mounted with the cut slot facing upward and the cutter housing hanging beyond the end of the bench. To accomplish vertical mounting, the Vertical Mount Kit (P/N 1057) is required.

**Warning: Air supply must be disconnected before servicing. After disconnecting air, cycle the footswitch to insure that all air has been bled from the supply lines.**

- 1 Using a 7/32" allen wrench and 5/16" end wrench, remove the cutter retaining screw & nut (7, 7A), the cover mounting screws (8, 15), the cover (3) and the cutter blades (6).
- 2 Using a 9/64" allen wrench, remove the scale mounting screws (9) from the scale assembly (1) and lay the cutter assembly down.
- 3 Align the scale assembly mounting holes with the housing mounting holes as shown below.
- 4 Reinstall the 8-32 screws in the scale assembly and tighten securely using the 9/64" allen wrench.
- 5 Position the stabilizer bracket (20) and install the supplied 6-32 x .38 lg. socket head cap screws and lockwashers (8,15), using the 7/64" allen wrench..
- 6 Reconnect air supply.
- 7 Cycle the unit several times using the footswitch to confirm proper cutter operation.



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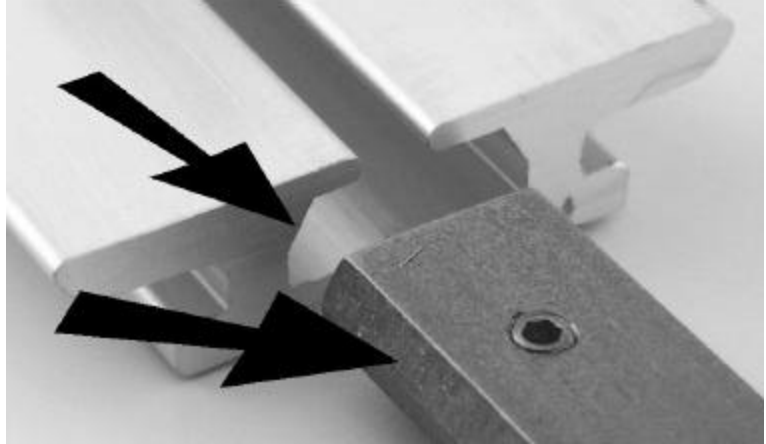
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## Modular Rail Assembly Instructions

The Modular Rail System is designed to assemble in **one orientation only**, to minimize alignment errors. The Rail Lock should be installed in the bottom of each extrusion and all four setscrews are snugged to prevent movement. The Rail and Rail Lock sections have mating chamfers that aid in proper alignment.

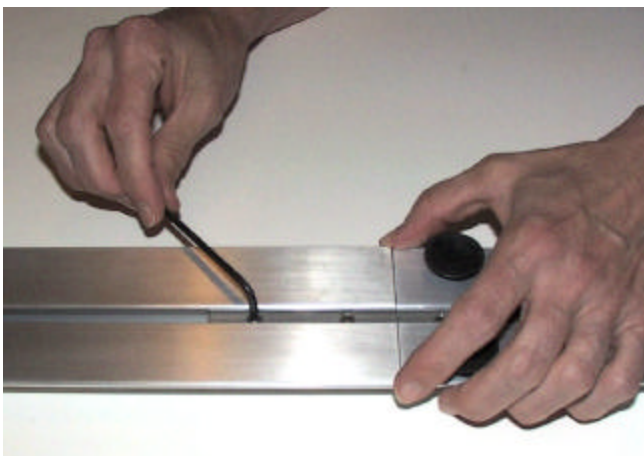
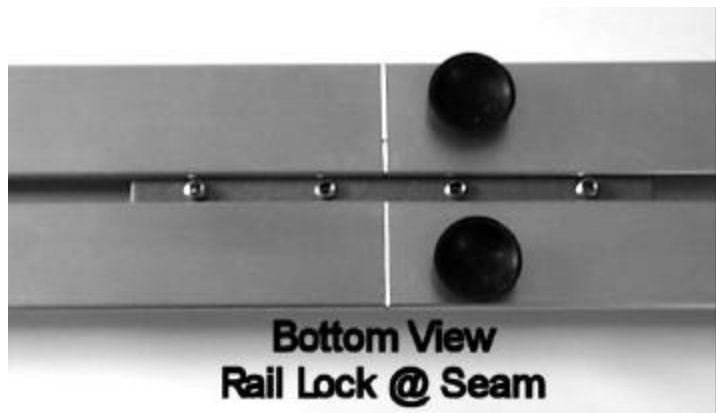
### Tools Required

- 1/8" allen wrench
- Soft flat surface



### Procedure

1. Locate two adjacent Rail sections by looking at the scale label numbers.
2. Place the two sections face down on a smooth flat non-abrasive surface.
3. Locate the Rail Lock and loosen the four setscrews until the lock will move freely.
4. Move the Rail Lock until it is centered on both rails.
5. Snug both setscrews on the left rail section.
6. Push the two rails together until they are in contact and aligned.



7. Press down on the seam as shown and snug the right two setscrews. The scale should move into alignment as the screws are snugged. You may need to align the two edges with your fingers while tightening the first screw.

**Note: Steps 5 – 7 were based on a right-handed person. The**

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**procedure works just as well starting with the right rail section in Step 5**

8. Repeat steps 1 – 7 for additional rail sections.
9. Turn Rail system over and install the Slide Assembly. Move the Slide over the intersections to insure smooth transition between sections. If it catches at the seam, adjust the positioning by loosening and repeating step 7.

**Caution: This system is designed to assemble only one way. The following picture shows improper assembly. The arrows highlight the areas that indicate misalignment. The right side rail is installed correctly.**

