Lathe Arm Installation

Product Identification: 15L Slant-PRO Lathe Arm Installation Kit (PN 33318)

Purpose: This document details installation of the lathe arm assembly on the 15L Slant-PRO Lathe (with or without the full enclosure installed).

Qty. Lathe Arm Installation Kit

Qty	Lathe Arm Installation Kit
1	Square Tube Arm w/ 4-hole Mounting Clevis
1	Round Monitor Post
1	Monitor Mounting Plate
4	8 mm Socket Head Cap Screws w/ Lock and Flat Washers
4	5 mm Socket Head Cap Screws w/ Lock and Flat Washers
4	Wood Screws (for optional mounting of E-stop to table)
10	4 mm Flat Head Screws
4	Wire Tie Mounts
4	Wire Ties
2	E-stop Cable Clips
1	Keyboard Table

NOTE: *If any of these items are missing, contact Tormach Customer Service at (608) 849-8381 for a replacement.*

NOTE: *Some kits contain both a short and a long Square Tube Arm. The operator may use either, but the longer tube is recommended when the full enclosure is installed. Some parts in this kit may not be used.*

Optional Prodcts	PN
USB Bulkhead Port Assembly	31289
17" LCD Monitor	30615
17" Touch Screen Kit	35575
Mini Keyboard	31371
Keyboard Cover	31384
Jog Shuttle	30616

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Lathe Arm Installation

1. Power off lathe according to *Power Off/On Procedure* detailed below.

⚠ **WARNING! Electrical Shock Hazard:** *Be sure to power down machine before making any electrical modifications. Failure to do so may result in personal injury or death.*

Power Off/On Procedure

Power Off	1. Push red *E-stop* button in
	2. Click *Exit* on screen; when prompted click *OK* to power off
	3. Turn Main Disconnect *Off* (see image at right)
Power On	1. Turn Main Disconnect *On* (see image at right)
	2. After software loads, turn red E-stop clockwise to release
	3. Press green *Start* button
	4. Click *Reset* on screen

2. Locate the four pre-tapped pilot holes used to attach the 4-hole Mounting Clevis to the lathe; attach with four long 8 mm Socket Head Cap Screws, Nuts, and Washers (see **Figure 1**).

NOTE: Before finalizing the mounting location, inspect the inside of the lathe's controller door to ensure there are no obstructions.

*IMPORTANT! The Square Tube Arm must be installed with the cable slots facing the rear of the lathe, as shown in **Figure 1**.*
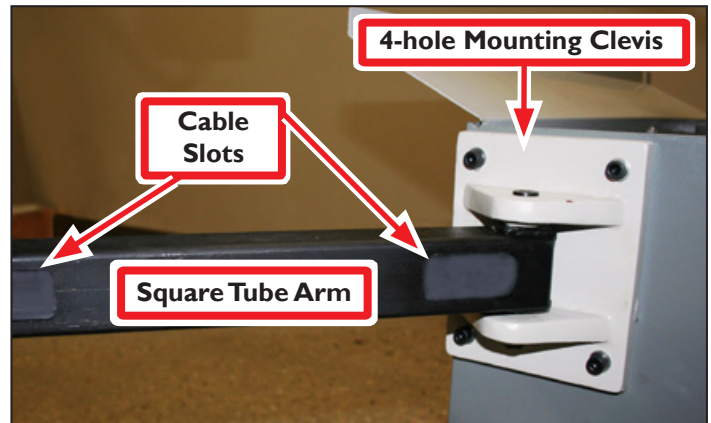

Figure 1

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3. Insert the Round Monitor Post into the Square Tube Arm and tighten the cross bolt (see **Figure 2**). The working height of the post can be adjusted after the keyboard and monitor are attached. Note the orientation of holes along the inside of the Round Monitor Post (see **Figure 2**).

Figure 2

4. If not already installed, use a mallet to tap the End Plug into the Square Tube Arm (see **Figure 3**).

Figure 3

5. Position the Round Monitor Post for mounting of the Keyboard Table as shown in **Figure 4** and **Figure 5**. Tighten the applicable screws to hold the desired mounting position.

Figure 4

6. Locate the four E-stop (emergency stop) holes on the underside of the Keyboard Table (see **Figure 5**).

IMPORTANT! *The Keyboard Table must be installed with the four E-stop holes facing down (underside of table), as shown in* **Figure 5**, **Figure 6**, *and* **Figure 9**. *These holes are used for mounting the E-stop box (included with lathe).*

7. Using the four 5 mm Socket Head Screws, attach the Keyboard Table to the Round Monitor Post (see **Figure 5** and **Figure 6**).
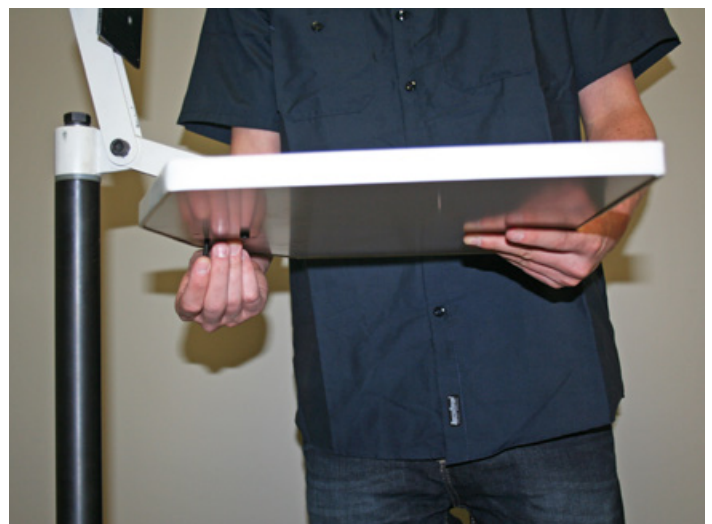

E-stop Holes

Figure 5

Figure 6

8. Fasten Wire Tie Mounts to the Round Monitor Post using four 4 mm Flat Head Screws (see **Figure 7**).

9. Connect E-stop Cable Clips to the bottom of the Square Tube Arm using two 4 mm Flat Head Screws (see **Figure 8**).

10. Attach the monitor (sold separately) to the monitor post assembly and route cables.

NOTE: Tormach recommends all cable connections be wrapped in electrical tape.

11. Adjust monitor height and keyboard angle as needed.

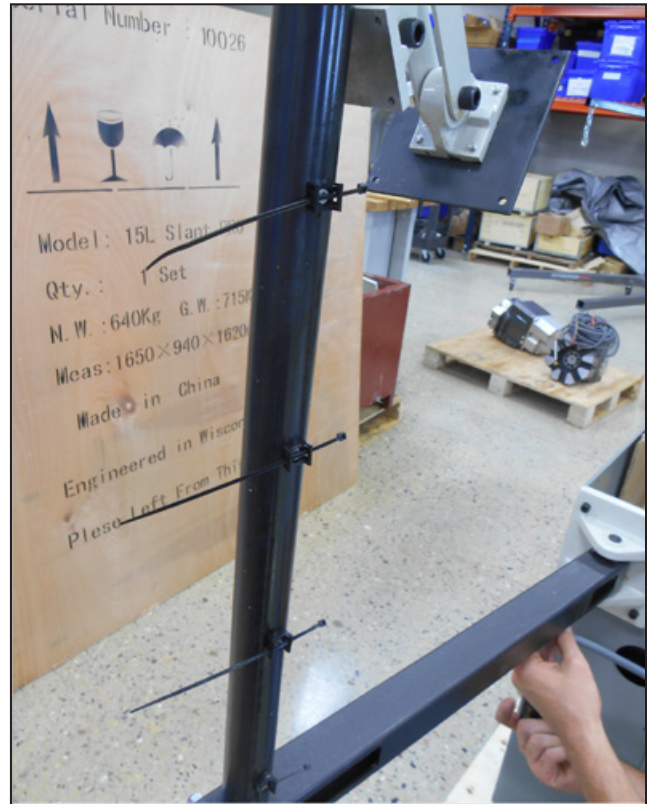12. Using the four Wood Screws, mount the remote E-stop (included with lathe) to the underside of the keyboard table (see **Figure 9**).

Figure 7

Figure 8

Figure 9