Digital Hardness Tester Installation Guide

09-0842

Step 1: Cut the two packaging straps and remove the four wood screws (2 in the front and 2 in the rear) to separate the crate from the base.

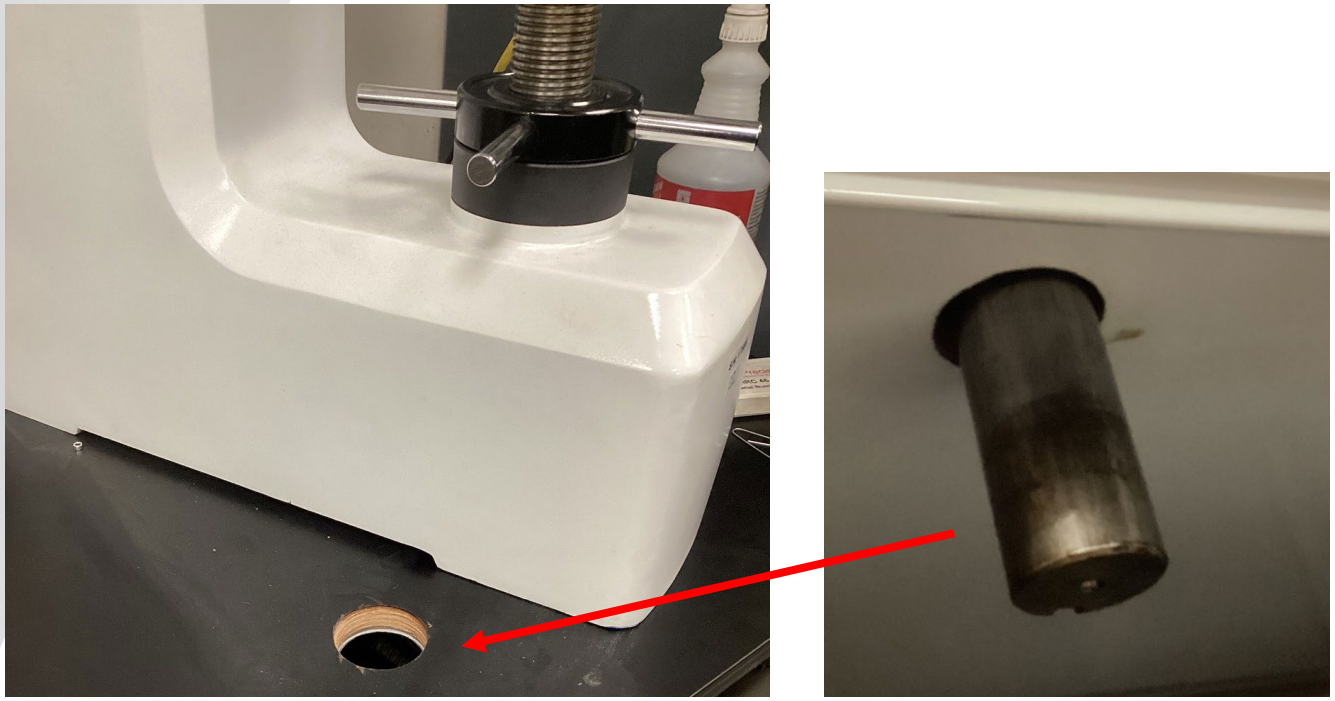
Note: The wood screws have 8mm hex heads.

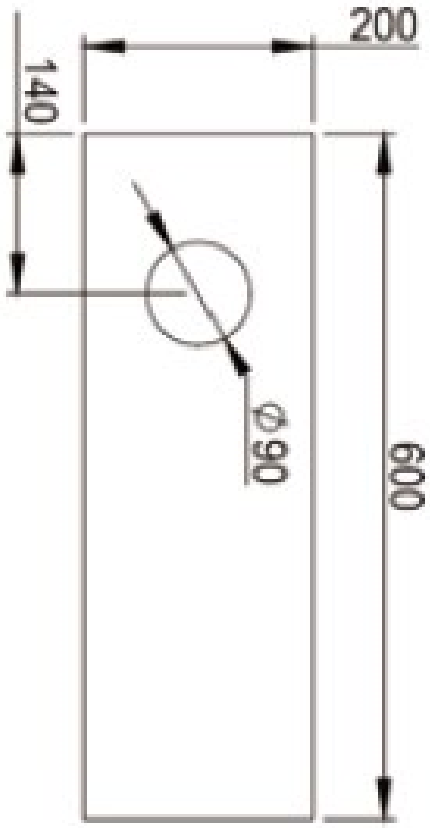
Step 2: Using a low-profile pallet jack or forklift for clearance, raise the base and remove the four 17mm hex bolts located underneath. Once removed, the hardness tester can be lifted from the base.

17mm Hex Bolt

Step 3: Place the hardness tester on the desired test bench. It can be placed flat or mounted using leveling pads (optional).

Step 3A: If full range of motion is required, a hole must be drilled into the test bench to allow the lead screw to fully descend. Oversizing the hole is recommended to prevent clearance issues.

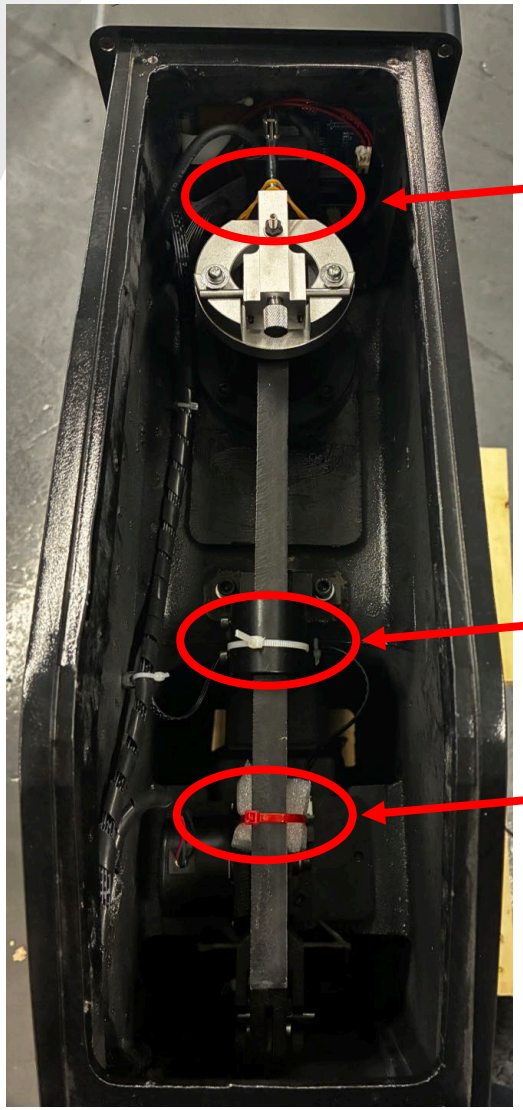




Dimensions: **mm**

Step 4: After positioning the unit on the bench, remove the upper and rear covers.

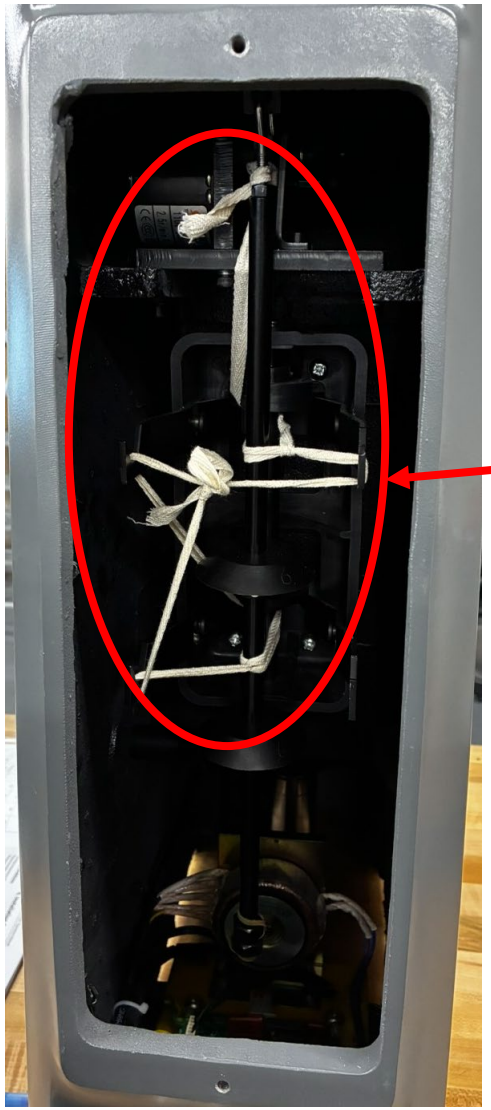
Step 5: Cut the internal zip ties in the following order (details or diagram may follow if needed).



1.

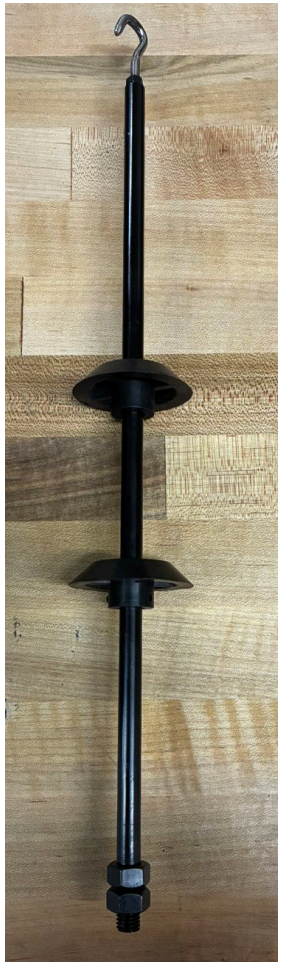
2.

3. **Remove foam**

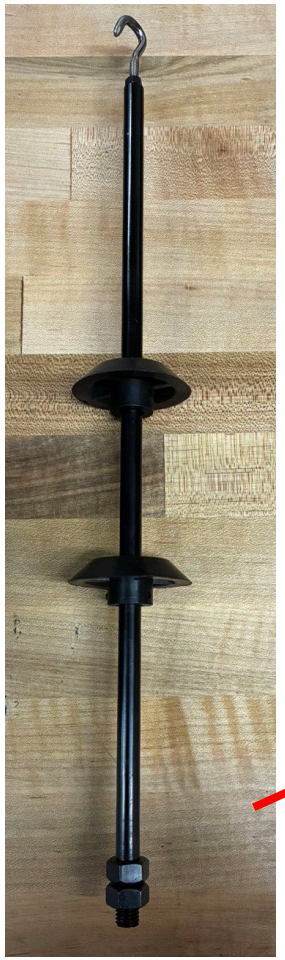


4.

Step 6: Set the load knob to 60 kgf (588 N) and remove the hanging rod from the rear cover. This will raise the forks and prepare them for weight installation in the next step.

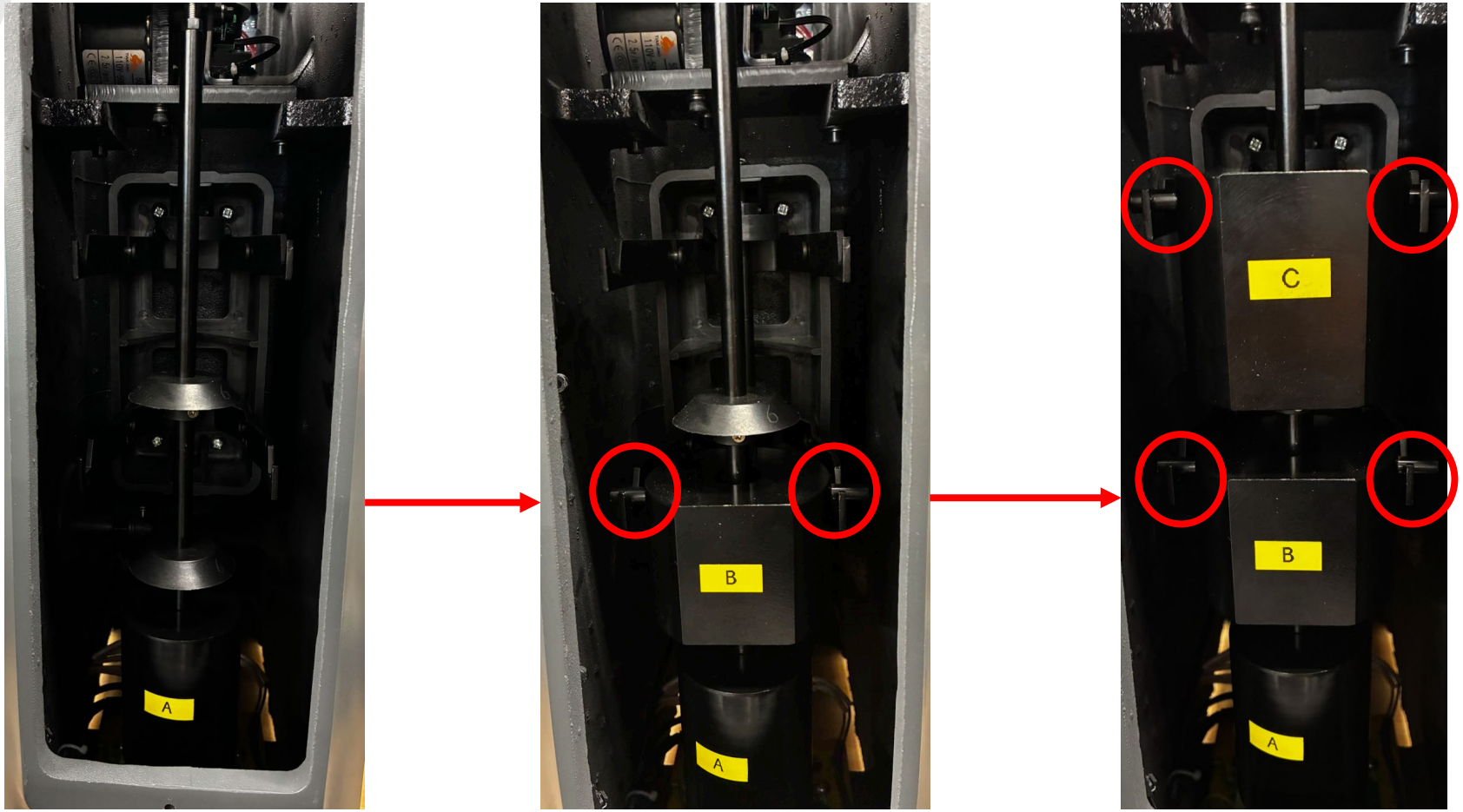


Step 7: After removing the hanging rod, unscrew and remove both M10 nuts from the rod. Slide the A-weight onto the rod, positioning it at the lowest point. Once in place, reinstall and securely tighten both M10 nuts to prevent the weight from shifting or falling.

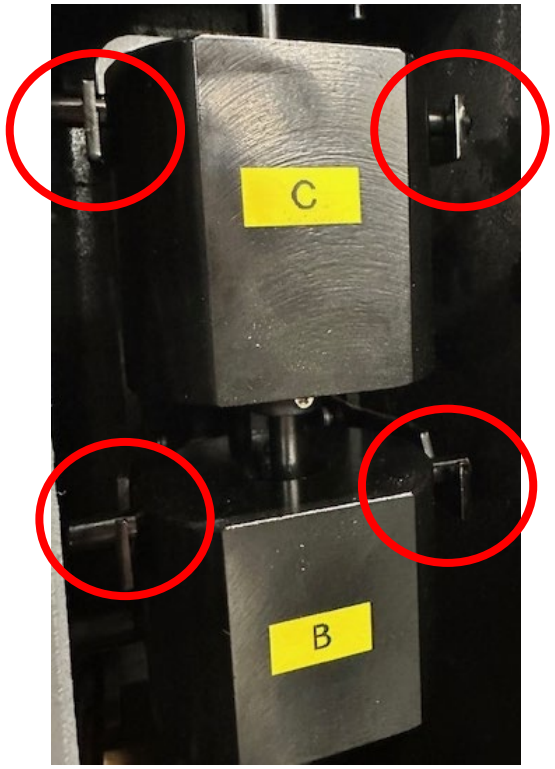


Step 8:

Carefully reattach the hanging rod using the hook. Do not drop the rod, as doing so may damage internal electronics. Once secured, install the B- and C-weights and allow them to rest firmly on the forks.



Step 9: Verify that the weight hangers are resting securely on the forks. If they are not, adjust the hook to ensure proper operation and load application. To do this, remove the weights and hanging rod in the reverse order, then rotate the hook counterclockwise to lower the rest position of the hangers and rod. Repeat the adjustment as needed.



Step 9A: Cycle through each load setting and confirm that the weight hangers rest correctly on the forks for all three configurations listed below.

60 Kgf (588.4N)
BOTH FORKS ENGAGED

100 Kgf (980.7N)
ONLY C FORK ENGAGED

150 Kgf (1471N)
NO FORK ENGAGED

Haas F1 Team
OFFICIAL MACHINE TOOL

Step 10: Once all settings have been verified, perform a sample test using the provided hardness test discs. Refer to pages 13–14 of the user manual for testing procedures. If calibration adjustments are needed, consult Section 14 on pages 16–17.