

CNS810

Floor Stand

Installation Manual

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INTRODUCTION

This publication is provided solely as a guide for individuals who have received Technical Training in servicing the METTLER TOLEDO product.

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1 Introduction

General

The CNS810 floor stand is an extruded aluminum framework designed to support a CNS810 static dimensioner. When you receive your CNS810 floor stand, make sure that no parts are missing or damaged.

Tools: To assemble the floor stand, you will need a 13-mm wrench for the T-bolts, a 20-mm wrench for the leveling feet, and a 10-mm wrench for the dimensioner bolts. You will need to supply a drill and bolts for anchoring the leveling feet to the floor (the feet have 12-mm bolt holes). For the optional table, you will need a Phillips head screwdriver and a drill with a 3-mm bit.

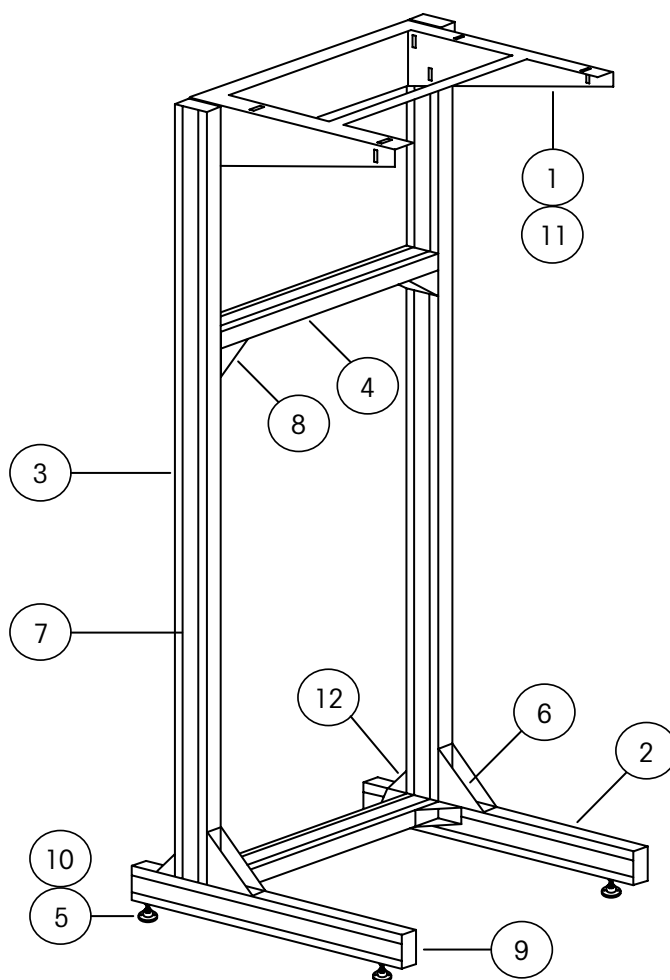


Figure 1-1: CNS810 Floor Stand Parts

Ref. No.	Part Number	Description	Quantity
1	TA312418	Mounting Bracket	1
2	T312370B0835	Aluminum Profile, 45 x 90 x 835 mm	2
3	T311879B2050	Aluminum Profile, 45 x 90 x 2050 mm	2
4	T311879B0625	Aluminum Profile, 45 x 90 x 625 mm	2
5	MZ1005000021	Leveling Foot, M12	4
6	MZ0907000039	Gusset Clamp, 45 x 90 mm	2
7	MZ0907000037	T-Slot Cover, 10 x 2000 mm	2
8	MZ0907000036	Gusset Clamp, 90 x 90 mm	2
9	MZ0907000035	End Cap, 45 x 90 mm	4
10	MZ0907000034	Threaded Sleeve, M12	4
11	MZ0907000033	T-Bolt Fastening Kit (T-Bolt and Flange Nut)	44
12	MZ0907000032	Gusset Clamp, 45 x 45 mm	6
--	MZ0901010621	Hex Head Cap Screw, M6	4
--	MZ0901030044	Washer, 1/4 inch	4

Table 1-1: CNS810 Floor Stand Parts

	 CAUTION
	<p>USE CAUTION WHEN LIFTING/MOVING THE PACKAGED KIT OR ASSEMBLED FLOOR STAND. ATTEMPTING TO LIFT/MOVE IT BY YOURSELF COULD RESULT IN INJURY.</p>

	 CAUTION
	<p>DO NOT PLACE WEIGHT EXCEEDING 300 POUNDS ON THE ASSEMBLED FLOOR STAND. EXCESSIVE LOADING COULD RESULT IN INJURY OR PROPERTY DAMAGE.</p>

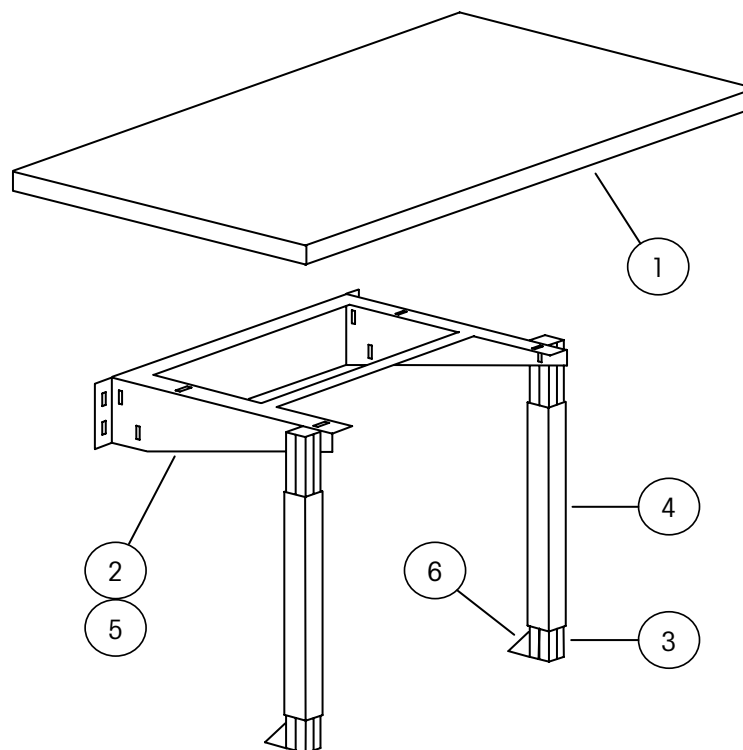


Figure 1-2: Optional Table Parts

Ref. No.	Part Number	Description	Quantity
1	MZ1406000041	Table Top, 705 x 1200 mm (with Lag Screws)	1
2	TA312418	Mounting Bracket	1
3	T312626-0250	Aluminum Profile, 45 x 45 x 250 mm	4
4	T312627-0400	Aluminum Profile Cover, 50 x 50 x 400 mm	2
5	MZ0907000033	T-Bolt Fastening Kit (T-Bolt and Flange Nut)	18
6	MZ0907000032	Gusset Clamp, 45 x 45 mm	2

Table 1-2: Optional Table Parts

Floor Stand Assembly Instructions

Assemble the floor stand according to the following instructions. It is easiest to assemble the stand while it is lying on its side rather than standing upright.

Connecting the Floor Stand Profiles

The stand is constructed of aluminum profiles that are connected with gusset clamps and T-bolt fasteners. A gusset clamp is bolted to a profile as shown in Figure 1-3:

- Position the T-bolt in one of the slots in the profile. Turning the head of the bolt 90° will allow you to insert it into the slot from above. Rotate the bolt back to the position shown in the drawing when tightening the connection.
- Position the clamp so that the end of the bolt fits through one of the clamp's holes.
- Use the flange nut to secure the clamp to the profile. Torque the T-bolt fasteners to 25 N·m \pm 5%.

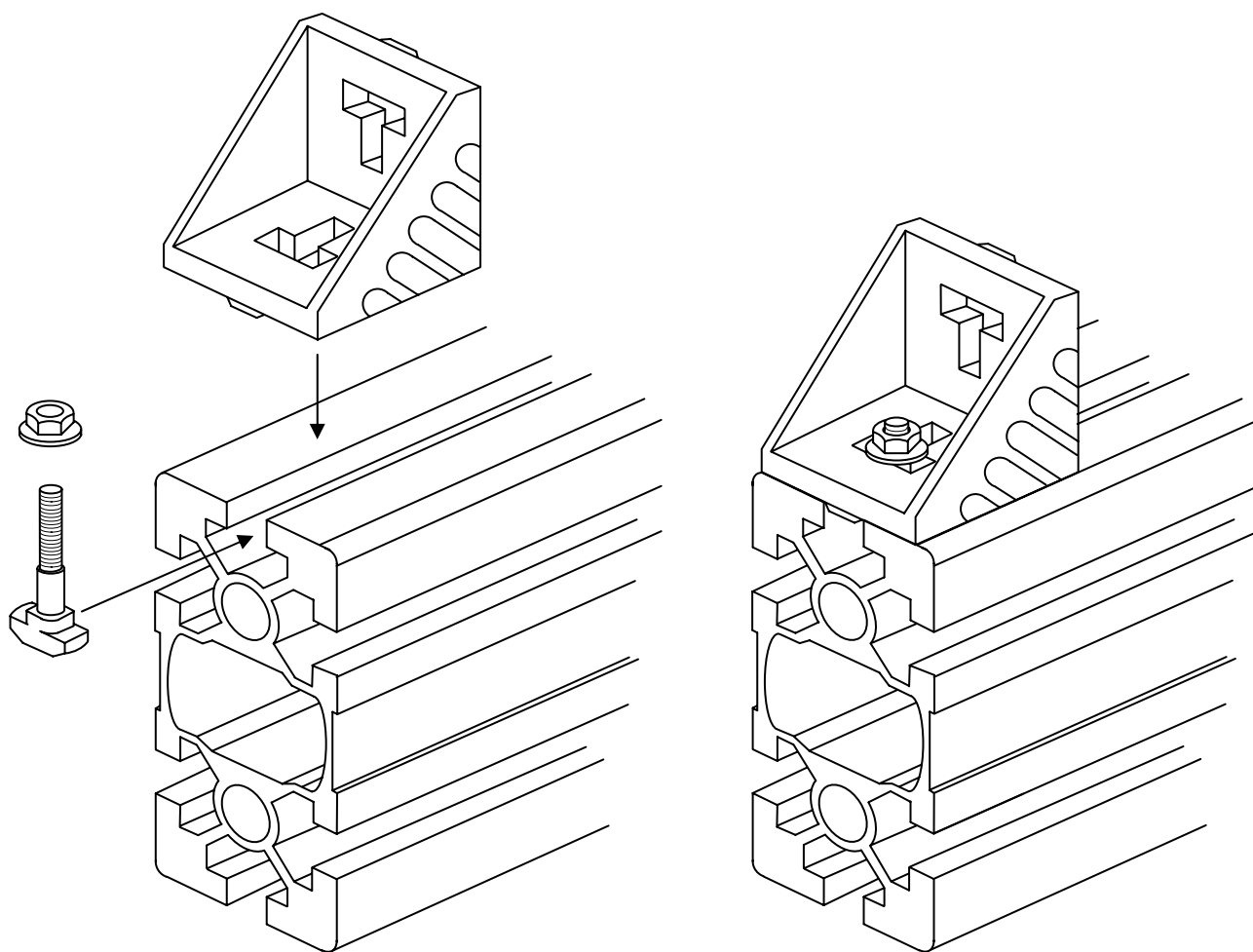
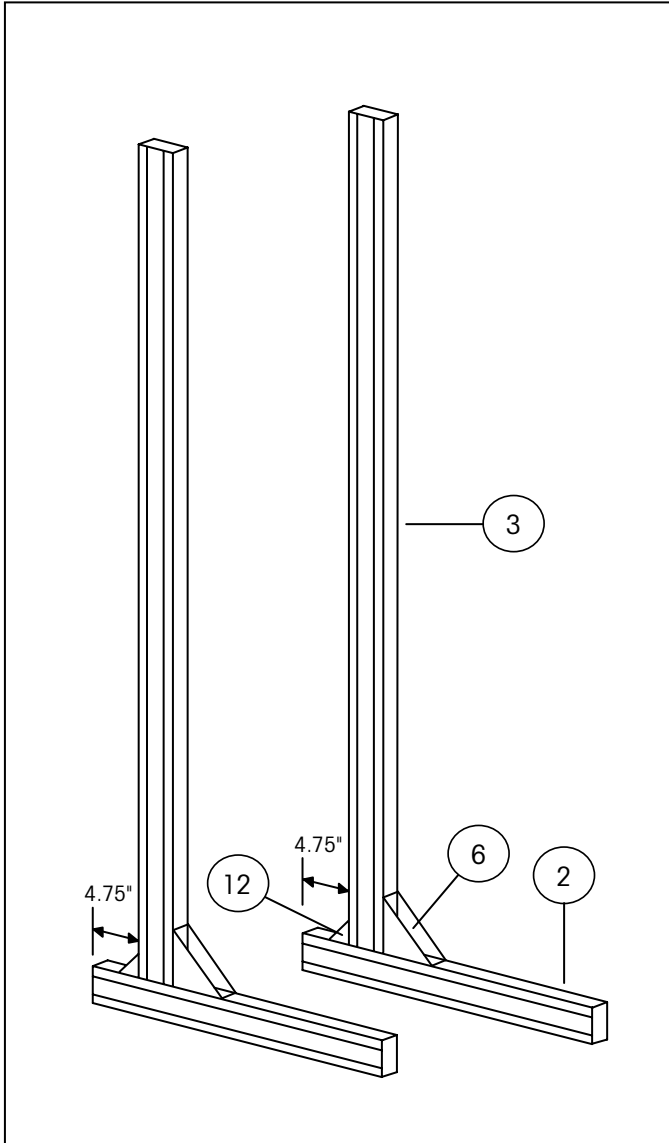
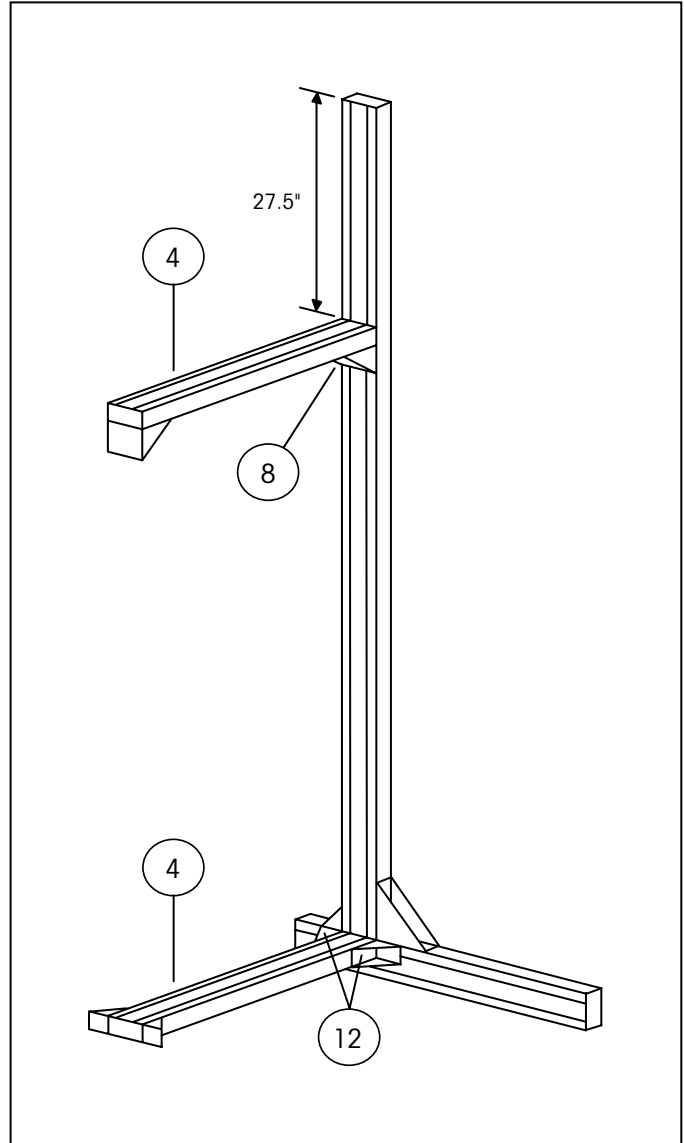


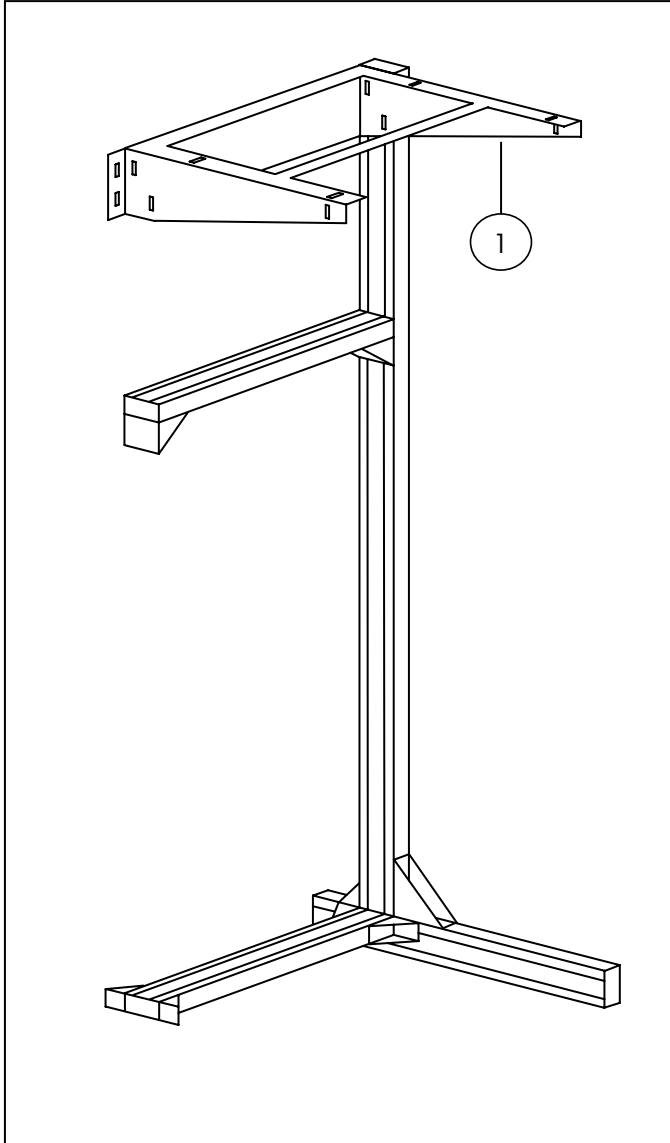
Figure 1-3: Bolting a Gusset Clamp to a Profile



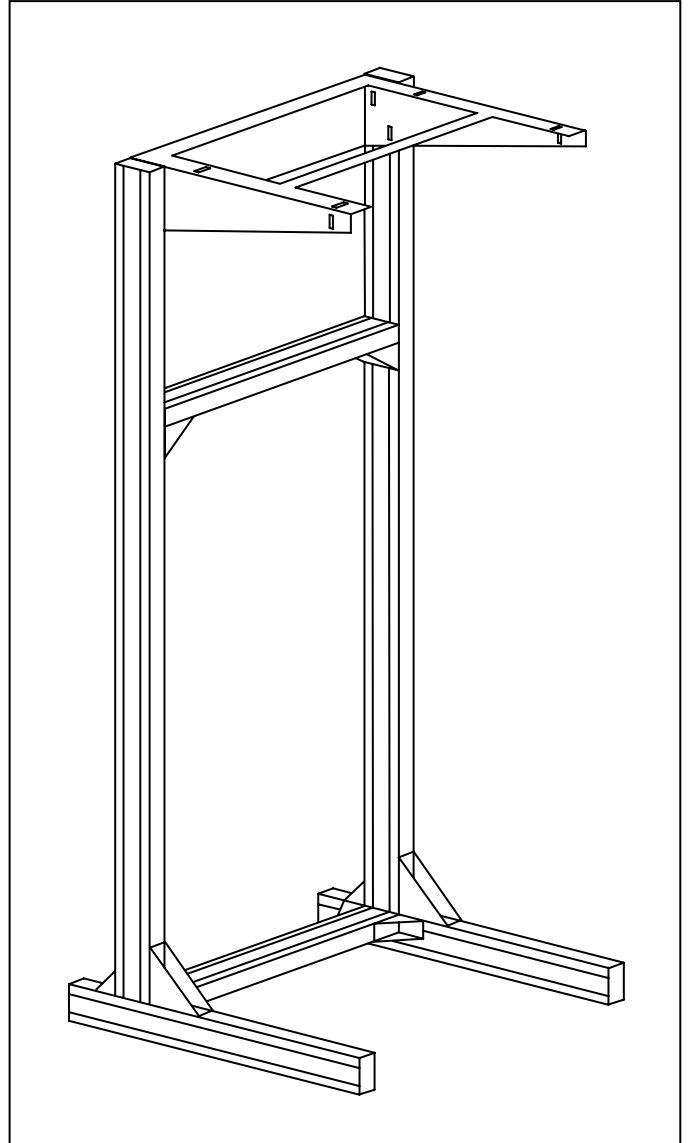
Step 1: Connect each vertical profile (#3) to a base profile (#2). Secure each pair of profiles, using a 45 x 45 gusset clamp (#12) in back and a 45 x 90 gusset clamp (#6) in front as shown. Position the vertical profile 4.75 inches from the rear end of the base profile.



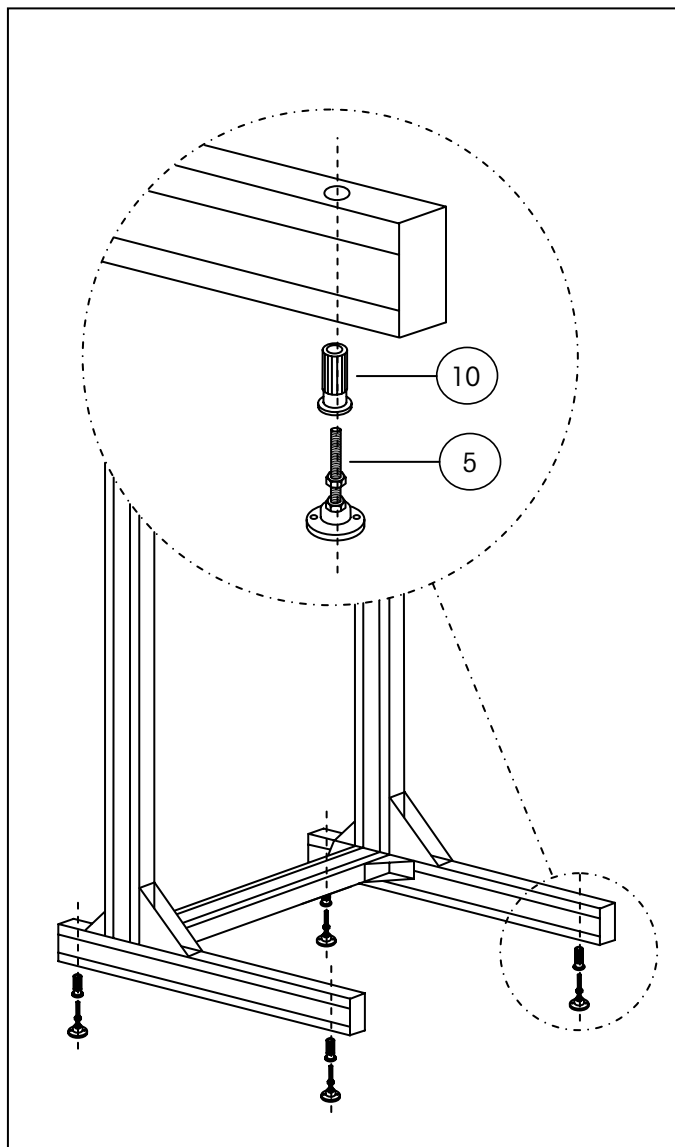
Step 2: Connect the two braces (#4) to the right side of the stand as shown. Use two 45 x 45 gusset clamps (#12) to secure the lower brace. Use one 90 x 90 gusset clamp (#8) to secure the upper brace. The top of the upper brace should be 27.5 inches from the top of the vertical profile. Attach gusset clamps to the opposite ends of the braces so that they can be used to connect the left side of the stand.



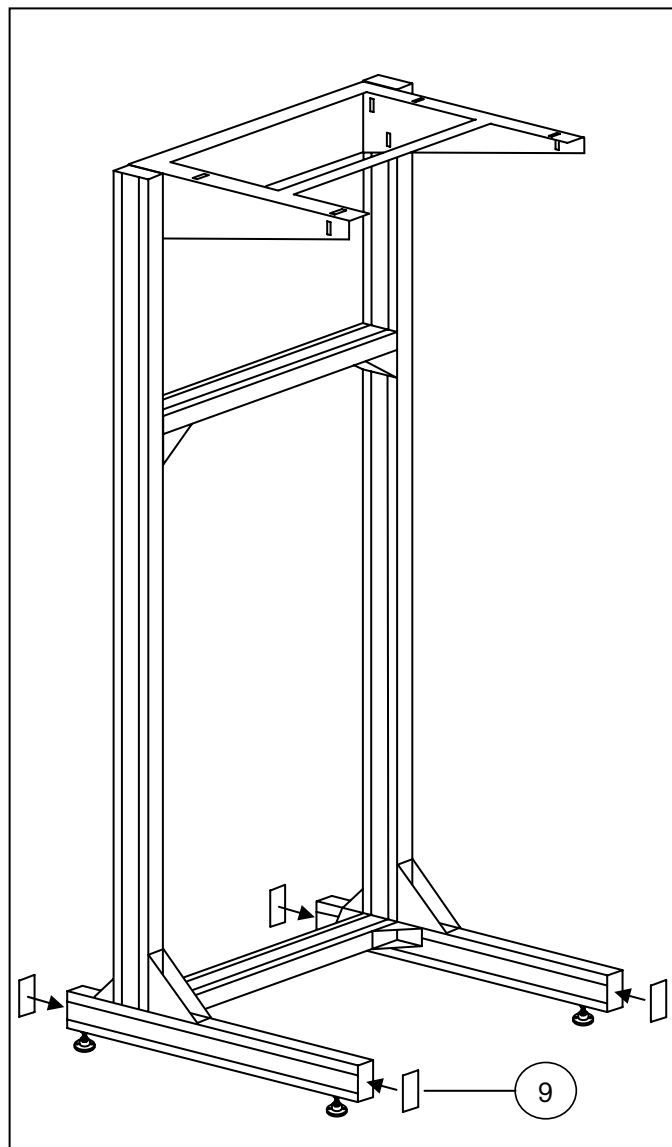
Step 3: Connect one side of the mounting bracket (#1) to the right side of the stand as shown. Use four T-bolt fasteners (#11) to secure the bracket to the stand. The top of the bracket should be flush with the top of the vertical profile.



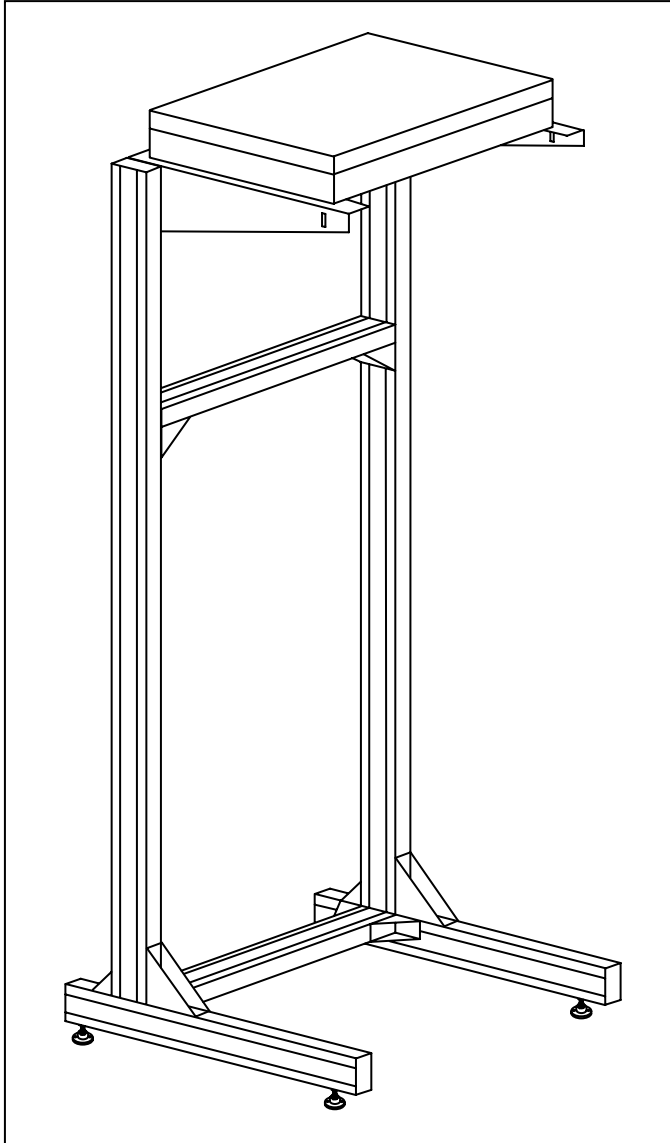
Step 4: Connect the left side of the stand to the bracket and the two braces. Use T-bolts and the appropriate gusset clamps to secure the connections.



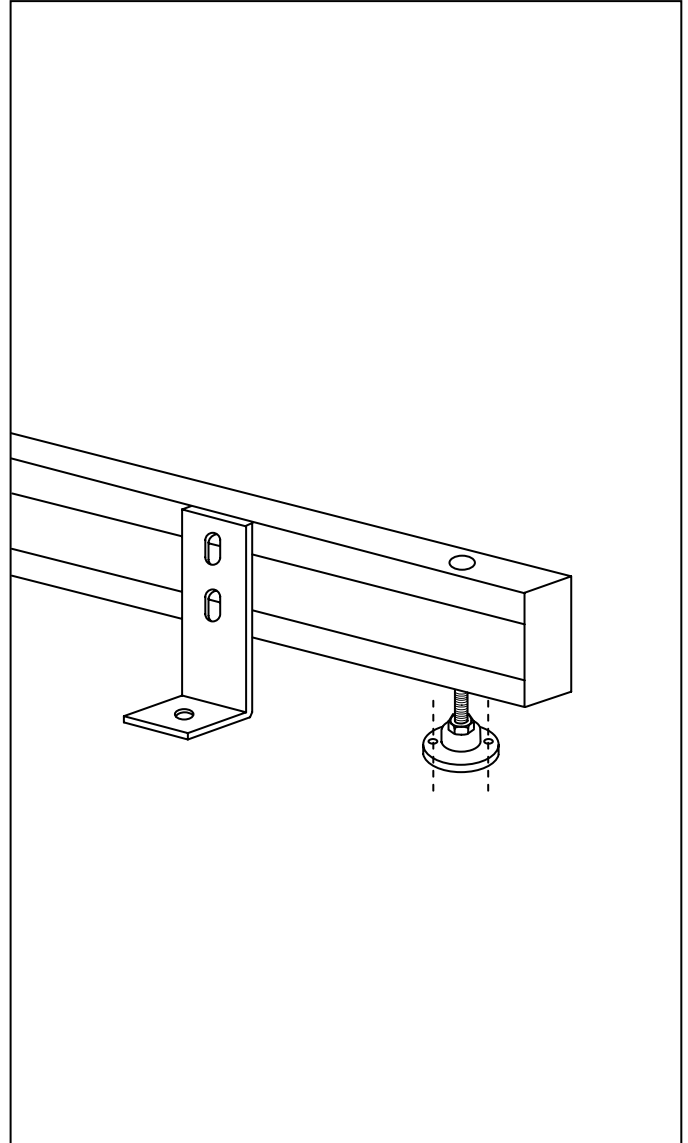
Step 5: Insert the four threaded sleeves (#10) into the holes in the underside of the base profiles. A mallet might be required to insert the sleeves fully into the holes. Then screw the four leveling feet (#5) into the sleeves. Set the stand upright and adjust the feet so that the stand is level and does not rock. Lock the feet into position by tightening the nut on each foot against the underside of the base profile.



Step 6: Install the four end caps (#9) at each end of the base profiles as shown.

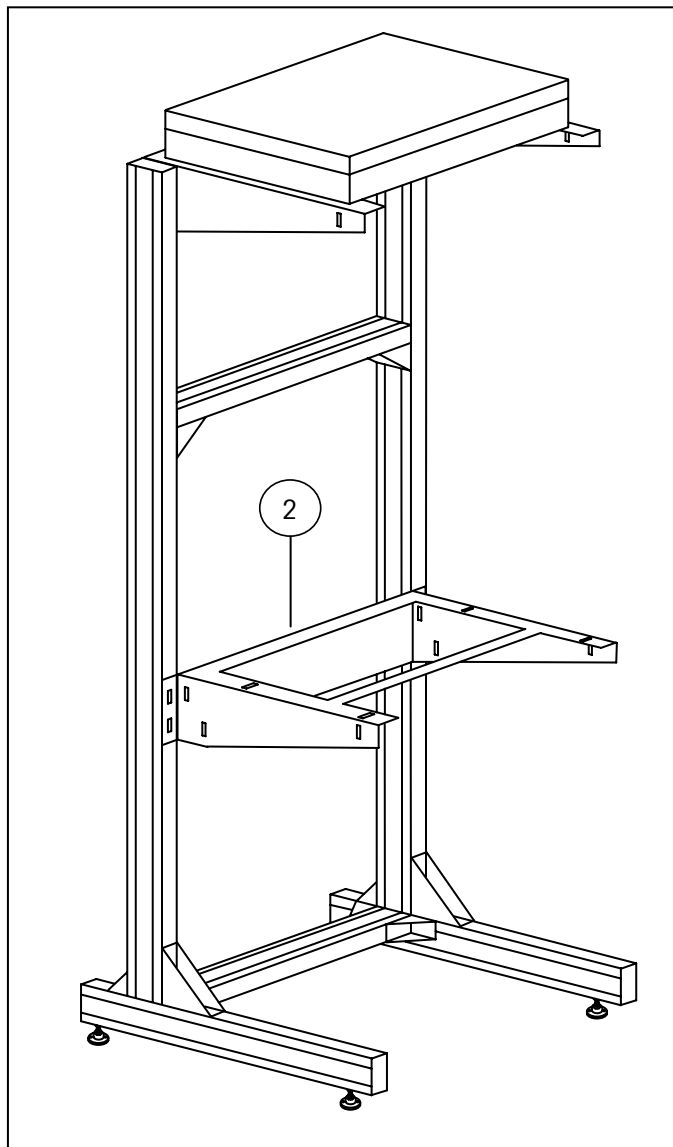


Step 7: Position the dimensioner on the bracket, and secure it to the bracket with the four 6-mm bolts and washers that are provided with the dimensioner. Route the dimensioner's cord(s) through the channels in one of the vertical profiles, and then install T-slot covers (#7) in the channels.

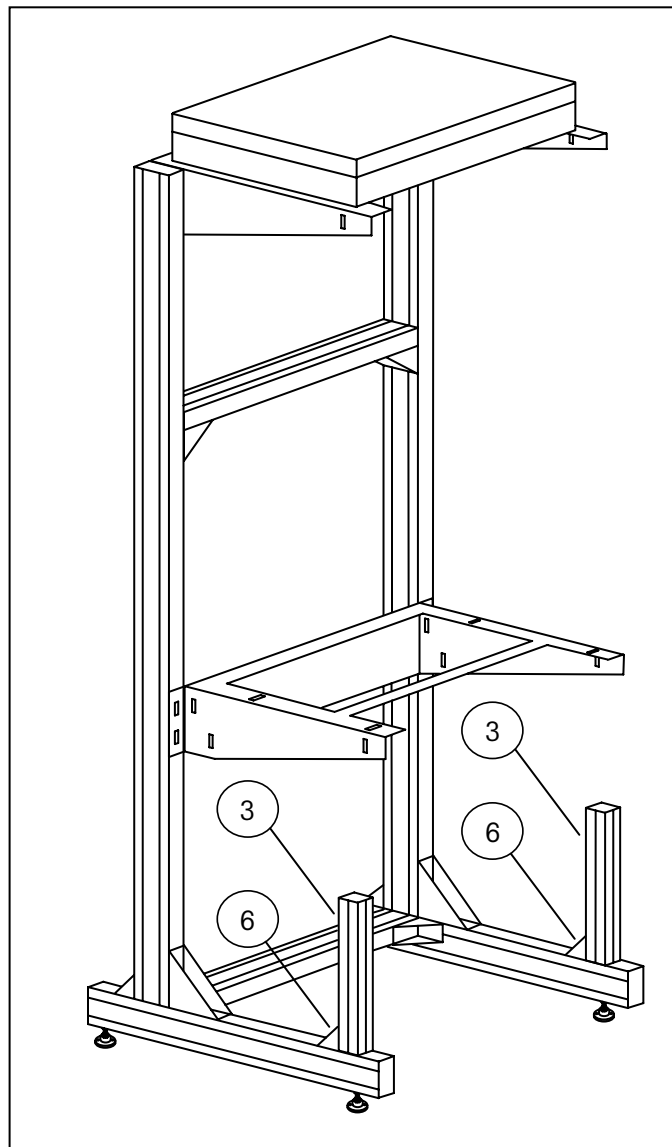


Step 8: Bolt the leveling feet to the floor. Follow the manufacturer's instructions for installing the anchor bolts. Another option is to use L-shaped brackets to secure the stand to the floor, table, or conveyor section.

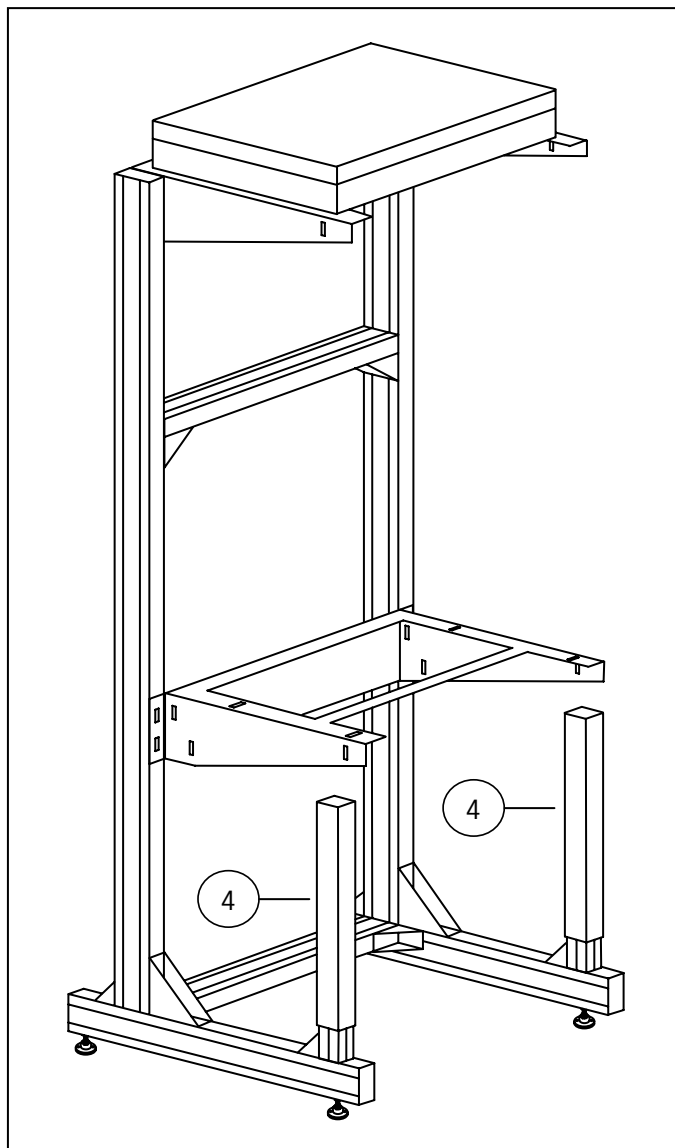
Optional Table Assembly Instructions



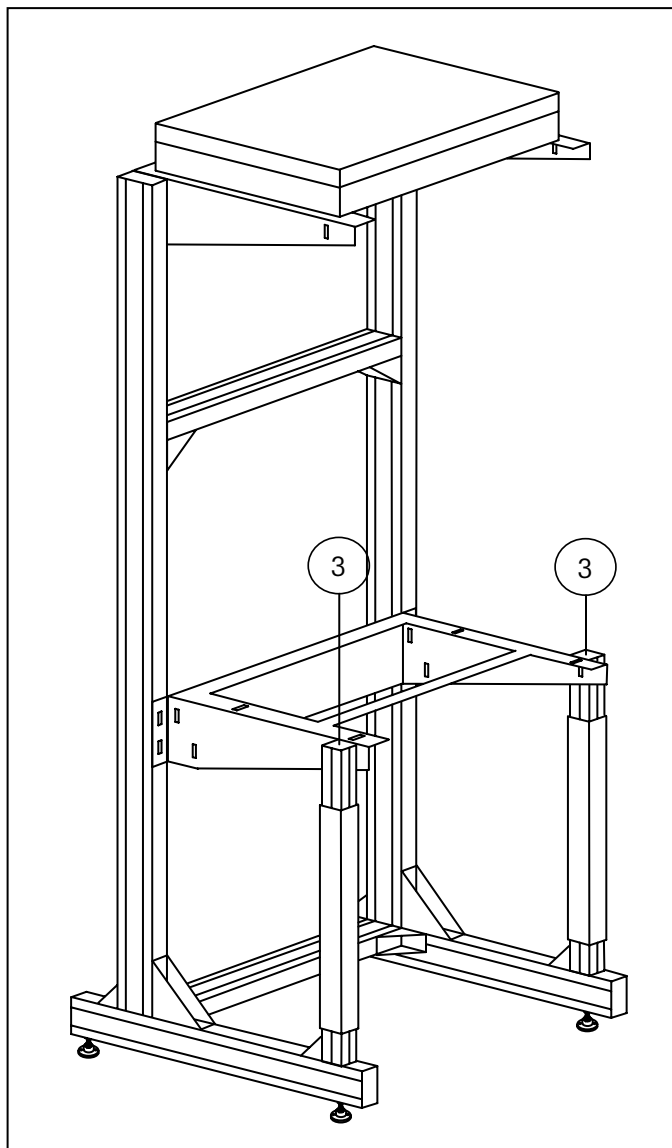
Step 1: Connect the mounting bracket (#2) to the front of the stand as shown. Use two T-bolt fasteners (#5) to secure each side of the bracket. The table top is 1.5 inches thick, so the top of the bracket should be positioned 1.5 inches below the desired height of the table top.



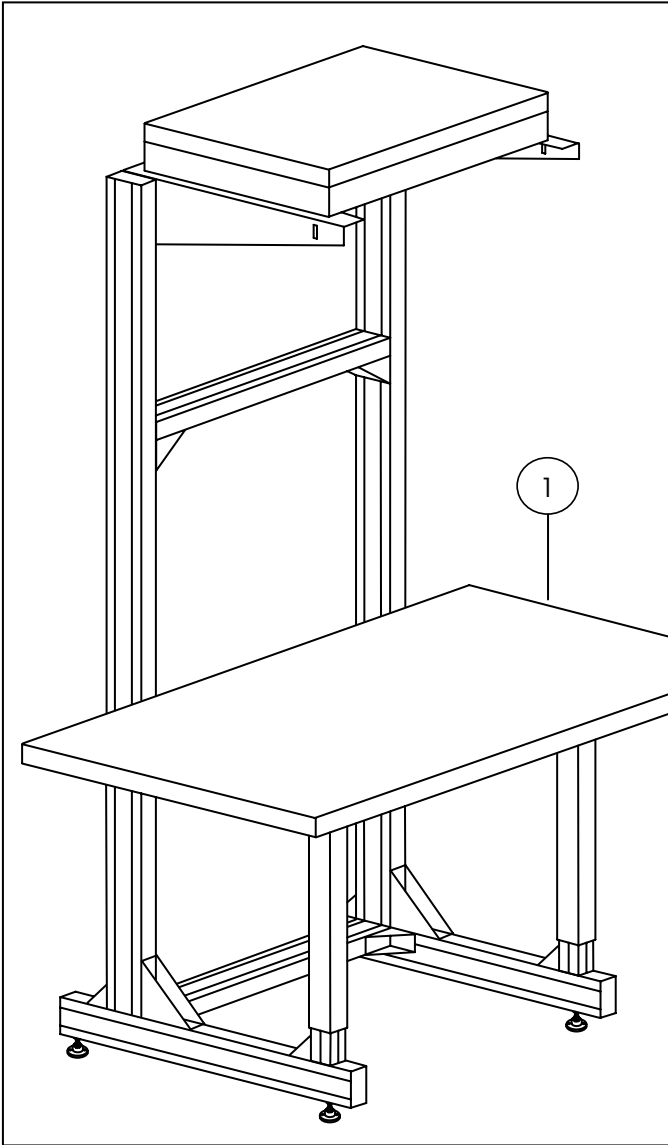
Step 2: Connect a profile (#3) to each of the two base profiles. Use a 45 x 45 gusset clamp (#6) to secure each profile as shown. The T-bolt fasteners should be snug but not tightened at this time.



Step 3: Slide the two aluminum covers (#4) over the profiles that were installed in step 2.



Step 4: Insert a profile (#3) into each of the two aluminum covers that were installed in step 3. Adjust the position of the lower profiles if necessary to align the upper profiles with the bolt holes in the bracket, and then tighten the T-bolt fasteners that secure the profiles that were installed in step 2. Use a T-bolt fastener (#5) to secure each profile to the bracket. Insert a T-bolt fastener in the profiles above and below the aluminum cover to lock the cover in position.



Step 5: Set the table top (#1) on the bracket and center it. On the underside of the table top, mark the locations of the bracket's four mounting holes. Remove the table top and use a 3-mm drill bit to drill pilot holes at the locations that you marked on the underside of the table top. Be careful not to drill through the top surface of the table. Reposition the table top, and use the lag screws that are provided to secure the table top to the bracket.

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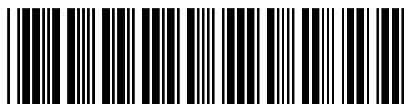
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