

All-Spec ESD-Safe Adjustable Height Workbench

The All-Spec ESD-safe workbench with LisStat® laminate benchtop is designed for work in the manufacture and assembly of static-sensitive electronic components. The dissipative laminate offers low electrical resistance, and the dissipative edge banding works as both, a conductor and eliminates the possibility of static charges around the edges. The underside is laminated with an aluminum sheet for maximum conductivity. There is no decrease in electrical properties or protection in the event of scratches, wear, or damage to the paint and laminate.

All-Spec ESD-safe benches come with a 1-1/4" thick benchtop with a rounded front edge for operator comfort. They come with a blue frame and white laminate top, 2" x 2" steel legs, and height is adjustable from 30" to 36" in 2" increments. We carry two types of ESD-safe benches, a regular duty bench with 1,000 lb. capacity, and a heavy-duty bench with 5,000 lb. capacity. Benches are customizable with a variety of accessories, such as drawers, shelves, footrests, and others.

PRODUCT SPECIFICATIONS

Physical Properties	Test Method	Values
Appearance	NEMA LD-3, 3.2	No ABC defect
Light Resistance	NEMA LD-3, 3.3	Slight effect
Cleanability		<16
Stain 1 - 10	NEMA LD-3, 3.4	No effect
Stain 11-15		Slight effect
Boiling Water Resistance	NEMA LD-3, 3.5	Slight effect
High Temperature Resistance	NEMA LD-3, 3.6	Slight effect
Ball Impact Resistance	NEMA LD-3, 3.8	>520
Dimensional Change		
Machine Direction	NEMA LD-3, 3.11	0.86%
Cross Direction		0.95%
Wear Resistance	NEMA LD-3, 3.13	>450 cycles
Formability	NEMA LD-3, 3.14	3/8" (9mm)
Blister Resistance	NEMA LD-3, 3.15	>40 sec.



Electrical Properties

Test Method IEC61340/ESD S-4.1, at 42% RH

Property	Test Results
RTT (Point to Point)	1.2 x 10 ⁷ ohms
RTG (Point to Ground)	5 x 10 ⁷ ohms
Surface Resistance	2 x 10 ⁸ ohms

PRODUCTS

BENCHES WITHOUT ACCESSORIES

Size	Regular Duty	Heavy Duty
	1,000 lb. limit	5,000 lb. limit
Size	Part No.	Part No.
24 x 48"	180-115	181-115
24 x 60"	180-116	181-116
24 x 72"	180-117	181-117
24 x 96"	180-118	181-118
24 x 120"	180-119	181-119
30 x 48"	180-120	181-120
30 x 60"	180-121	181-121
30 x 72"	180-122	181-122
30 x 96"	180-123	181-123
30 x 120"	180-124	181-124
36 x 48"	180-125	181-125
36 x 60"	180-126	181-126
36 x 72"	180-127	181-127
36 x 96"	180-128	181-128
36 x 120"	180-129	181-129



Bench shown is P/N 181-152, heavy-duty bench with accessories



Bench shown is P/N 180-150, regular duty bench with accessories

BENCHES WITH ACCESSORIES

Description	Size	Regular Duty	Heavy Duty
		1,000 lb. limit	5,000 lb. limit
Description	Size	Part No.	Part No.
ESD-Safe Workbench with Uprights, Bin Rail, and Other Accessories	30 x 60"	180-150	181-150
ESD-Safe Workbench with Uprights, and Other Accessories	30 x 60"	180-151	181-151
ESD-Safe Workbench with Instrument Shelf, and Other Accessories	30 x 60"	180-152	181-152

The values shown above were taken from random samples from material we believe to be typical for the product; however, actual values may vary somewhat from those listed above. All-Spec Industries makes no warranty, expressed or implied, as to the suitability of these materials for any specific use. Customers should determine product suitability based upon their own initial criteria and testing.



Bench Assembly Instructions



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Bench Assembly Instructions

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It is recommended that you assemble the bench with the help of a second person. You can also use a power driver for tightening screws during assembly, but make sure not to over tighten.

Tool required but not included:



#2 and #3 Phillips Screwdriver



**Ratchet with 11mm Socket
(or Wrench)**



**11mm Wrench
(or Pliers)**

Bench

[\(Demonstration Video\)](#)

Hardware required:    x 16 Large Bolt, Washer, & Nut  x 8 Wood Screws



Unpack the box containing the leg pairs and locate the necessary hardware.

Your bench will arrive packed on a pallet. The bench top is packed upside down to allow assembly right on the pallet.



Each leg pair has a top and bottom half, which fit together to form the leg support. Align the holes on the top and bottom halves at the desired height.



Insert the bolts with the lock washers on the inside of the leg and tighten the nuts until the lock washers are flat. (4 total bolts per leg pair, 2 bolts each side)



Do the same for both sides of each leg pair, making sure to keep the leg height consistent.



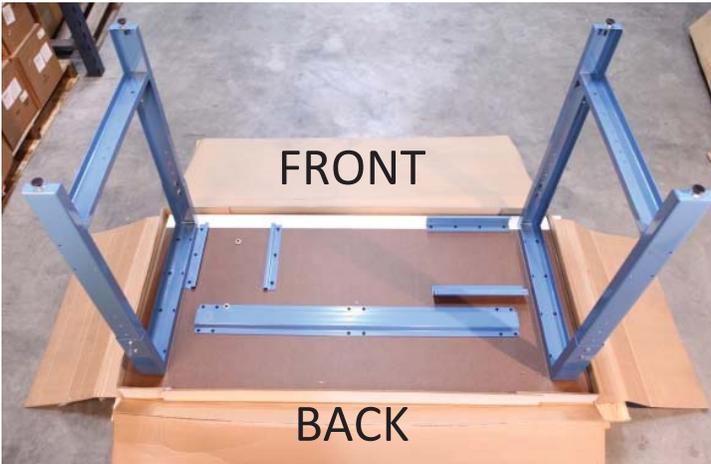
Now that you have both leg pairs assembled, we can attach the bench top.



Bench (continued)



Align the top of the one of leg pairs to the 8 starter holes on the underside of the bench top. Align the leg with the footrest holes located on the bottom of the legs pointing towards the front edge of the bench top. Attach and tighten all 8 wood screws.



If you purchased glides, you can attach them to the bottom of each leg with the included flat washer and adjustment nut on the bottom of the leg, and the split washer and second nut on the inside of the leg.



Open and unfold the top of the bench top packaging. You should see the underside of your bench top.

If you've ordered accessories you may see various preinstalled attachment brackets and predrilled holes.



Repeat the process with the other leg pair.



Now you can carefully turn your bench upright.

* **NOTE:** Bench shown is a non-ESD-safe bench. If you have an ESD-safe bench, you will see an aluminum layer on the bottom side of the bench top.

Bench (continued)



Attach the reinforcement bar to the back of the legs using the remaining 8 bolts.



Each side attaches to the holes on the lower half of each leg using 4 bolts with lock washers.



Tighten until the lock washers lie flat.



Drawer Stack

[\(Demonstration Video\)](#)

Hardware required:



x 2 Bolt, Washer, & Nut



Your drawer stack will arrive preassembled in the configuration you ordered.



Fit the groove on the top front of the drawer stack into the mounting bracket on the underside of the bench top.



Hold in place and slide the top most drawer forward exposing 2 holes on the back mounting bracket.



Insert bolts and washers and tighten the drawer stack to the back mounting bracket on the underside of the bench top.



Bin Box Drawer

[\(Demonstration Video\)](#)



Remove the 3 wood screws loosely holding the inside bin drawer rail.

Fit the edge of the bin drawer into the outside bin drawer rail.



Replace the inside bin drawer rail, and retighten the 3 wood screws.



Standard Footrest

[\(Demonstration Video\)](#)

Hardware required:

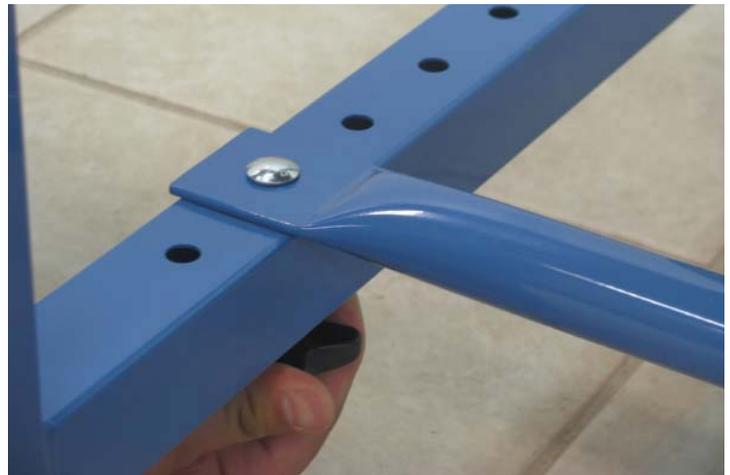


Insert bolt and attach thumb screw to the underside of the leg.

Select the desired footrest adjustment holes on the base of the leg pairs.



The square flange on the bolt should seat in the square hole on the footrest.



Ergonomic Footrest

[\(Demonstration Video\)](#)

Hardware required:



Select the desired adjustment holes on the base of the leg pairs.



The footpad fits on the footrest bar and can be adjusted as needed. Just move and set in place using the thumb screw on the back.



Insert bolt and attach thumb screw to the underside of the leg. The square flange on the bolt should seat in the square hole on the footrest.



Power Strip

[\(Demonstration Video\)](#)

Hardware required:  x 4 Small Wood Screws



The power strip attaches to the back of the bench top using 4 small wood screws.

Center the power strip on the back edge and drive each of the 4 screws through the mounting brackets and into the bench top.



Uprights

[\(Demonstration Video\)](#)

Hardware required:  x 4 Small Wood Screws



Fit the bracket on the end of the upright over the back edge of the bench top and align with the predrilled holes.



Insert 2 bolts with washers and nuts on the underside, and tighten.



Repeat for the other upright.



Bin Rail

[\(Demonstration Video\)](#)

Hardware required:  x 2 Thumb Screw



Loosen the thumb screw on the back of each bin rail bracket. Fit the brackets over the end of each upright and lower to desired height notch.

Tighten each thumb screw.



Bins fit right on the edge of the rail.



Roll Holder

[\(Demonstration Video\)](#)

Hardware required:



x 2 Thumb Screw Bracket

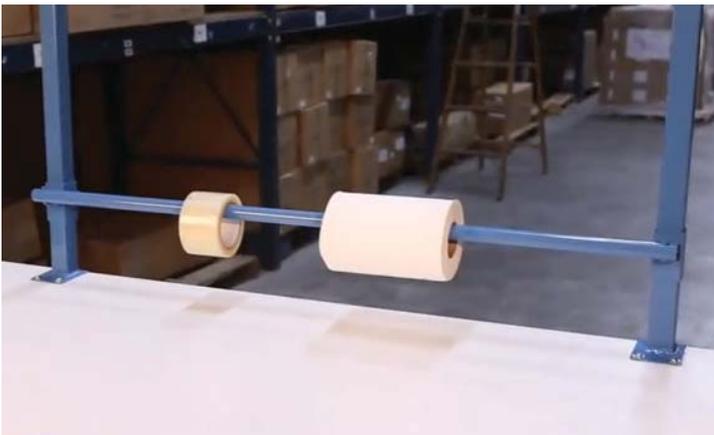


Loosen the thumb screw on each bracket and slide them over the end of each upright.

Lower to the desired height notch and tighten each thumb screw.



Fit the holes in the ends of the roll bar onto the posts on the brackets.



Adjustable Shelves

[\(Demonstration Video\)](#)

Hardware required:  x 2 Shelf Brackets    x 4 Small Bolt, Washer, & Nut (Metal Shelf Only)



Loosen the thumb screws on the back of each shelf bracket and slide them over the end of each upright. Align to the desired height notch and tighten.



The metal shelf attaches using the 4 bolts.



Align the shelf with the 4 holes in the shelf brackets, insert the bolts, and attach the washers and nuts.



The laminate shelf comes with 4 preinstalled screws. Align the screws with the holes in the shelf brackets.



Slide the shelf back into the bracket and tighten the screws.



Light Assembly

[\(Demonstration Video\)](#)

Hardware required:  x 2 Thumb Screw  x 1 Bracket & Housing Bolts



The light frame comes preassembled.



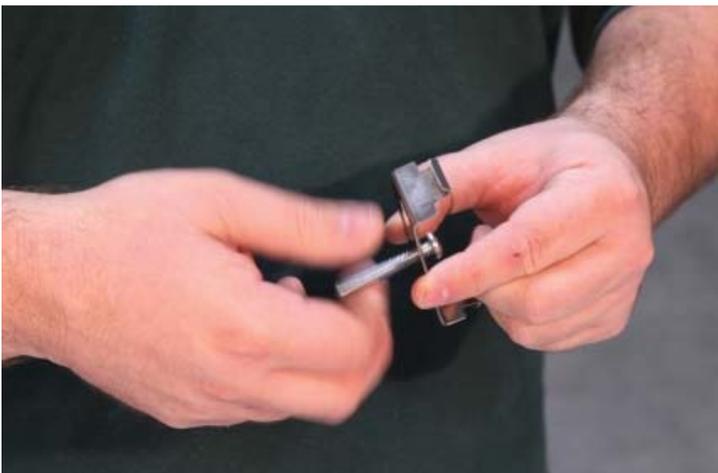
Loosen the thumb screws on the brackets, slip the light frame over the tops of the uprights, and tighten the thumb screws.

To remove the packing around the bulbs in the light housing, lightly pry open the clips surrounding the housing and remove the cover.



Remove each bulb, discard the foam packing, replace the bulbs, and reassemble the housing.

Insert the 2 mounting bolts with washers through the housing brackets, and clip the brackets into the housing.



Attach the housing bolts through the holes in the light frame and tighten.

Light Assembly (continued)



With the help of a second person, carefully lift the light assembly and hang the bracket onto the light frame.



Use the On/Off switch on the front of the light assembly to illuminate the light fixture.



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