

# MULTI-PURPOSE WORKBENCH WITH LIGHTING

**Model 99681**

## ASSEMBLY INSTRUCTIONS



Tools sold separately.

Distributed exclusively by Harbor Freight Tools®.

3491 Mission Oaks Blvd., Camarillo, CA 93011

Visit our website at: <http://www.harborfreight.com>



**Read this material before using this product.  
Failure to do so can result in serious injury.  
SAVE THIS MANUAL.**

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**For technical questions or replacement parts, please call 1-800-444-3353.**

Manual revised 081

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## SAVE THIS MANUAL

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Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

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## IMPORTANT SAFETY INFORMATION

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In this manual, on the labeling, and all other information provided with this product:



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

### **DANGER**

**DANGER** indicates a hazardous situation which, if not avoided, will result in death or serious injury.

### **WARNING**

**WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury.

### **CAUTION**

**CAUTION**, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

### **NOTICE**

**NOTICE** is used to address practices not related to personal injury.

### **CAUTION**

**CAUTION**, without the safety alert symbol, is used to address practices not related to personal injury.

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## General Safety Warnings

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**WARNING** Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.

1. **Work area safety**
  - a. **Keep work area clean and well lit.** *Cluttered or dark areas invite accidents.*
  - b. **Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*
2. **Electrical safety**
  - a. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools.** *Unmodified plugs and matching outlets will reduce risk of electric shock.*
  - b. **Do not abuse the cord. Never use the cord for unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** *Damaged or entangled cords increase the risk of electric shock.*
  - c. **Use personal protective equipment. Always wear ANSI-approved**

safety goggles when assembling this product.

- d. Prevent unintentional starting. Ensure the switch of the power strip is in the off-position before connecting to power source, and plugging in any power tool.



## SAVE THESE INSTRUCTIONS.

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### GROUNDING

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#### **WARNING** TO PREVENT ELECTRIC SHOCK

##### AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION:

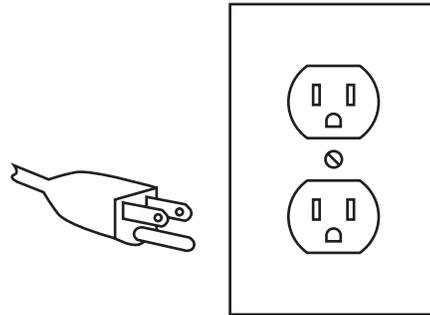


Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the tool. Never remove the grounding prong from the plug. Do not use the tool if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

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### Grounded Tools: Tools with Three Prong Plugs

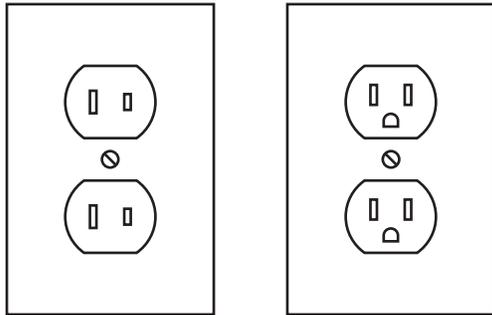
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3-Prong Plug and Outlet

1. Tools marked with “Grounding Required” have a three wire cord and three prong grounding plug. The plug must be connected to a properly grounded outlet. If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user, reducing the risk of electric shock. **(See 3-Prong Plug and Outlet.)**
2. The grounding prong in the plug is connected through the green wire inside the cord to the grounding system in the tool. The green wire in the cord must be the only wire connected to the tool’s grounding system and must never be attached to an electrically “live” terminal. **(See 3-Prong Plug and Outlet.)**
3. The tool must be plugged into an appropriate outlet, properly installed and grounded in accordance with all codes and ordinances. The plug and outlet should look like those in the preceding illustration. **(See 3-Prong Plug and Outlet.)**

## Double Insulated Tools: Tools with Two Prong Plugs



**Outlets for 2-Prong Plug**

1. Tools marked “Double Insulated” do not require grounding. They have a special double insulation system which satisfies OSHA requirements and complies with the applicable standards of Underwriters Laboratories, Inc., the Canadian Standard Association, and the National Electrical Code. **(See Outlets for 2-Prong Plug.)**
2. Double insulated tools may be used in either of the 120 volt outlets shown in the preceding illustration. **(See Outlets for 2-Prong Plug.)**

## Extension Cords

1. **Grounded** tools require a three wire extension cord. **Double Insulated** tools can use either a two or three wire extension cord.
2. As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible tool damage. **(See Table A.)**

3. The smaller the gauge number of the wire, the greater the capacity of the cord. For example, a 14 gauge cord can carry a higher current than a 16 gauge cord. **(See Table A.)**
4. When using more than one extension cord to make up the total length, make sure each cord contains at least the minimum wire size required. **(See Table A.)**
5. If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum cord size. **(See Table A.)**
6. If you are using an extension cord outdoors, make sure it is marked with the suffix “W-A” (“W” in Canada) to indicate it is acceptable for outdoor use.
7. Make sure the extension cord is properly wired and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it.
8. Protect the extension cords from sharp objects, excessive heat, and damp or wet areas.

RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS* (120/240 VOLT)					
NAMEPLATE AMPERES (at full load)	EXTENSION CORD LENGTH				
	25'	50'	75'	100'	150'
0 – 2.0	18	18	18	18	16
2.1 – 3.4	18	18	18	16	14
3.5 – 5.0	18	18	16	14	12
5.1 – 7.0	18	16	14	12	12
7.1 – 12.0	18	14	12	10	-
12.1 – 16.0	14	12	10	-	-
16.1 – 20.0	12	10	-	-	-

**TABLE A** \* Based on limiting the line voltage drop to five volts at 150% of the rated amperes.

### Symbology

	Double Insulated
	Canadian Standards Association
	Underwriters Laboratories, Inc.
	Volts Alternating Current
	Amperes
	No Load Revolutions per Minute (RPM)

## SPECIFICATIONS

Power Strip Rating	125 V~ / 7 A
Replacement Bulb	T5 14W
Maximum Weight Capacity	550 lb. - evenly distributed as follows: Bench Top - 250 lb. Bottom shelf - 200 lb. Each Drawer - 25 lb. Top Shelf - 45 lb.

## UNPACKING

When unpacking, make sure that the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at the number shown on the cover of this manual as soon as possible.

## ASSEMBLY



**Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.**

**Note:** For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

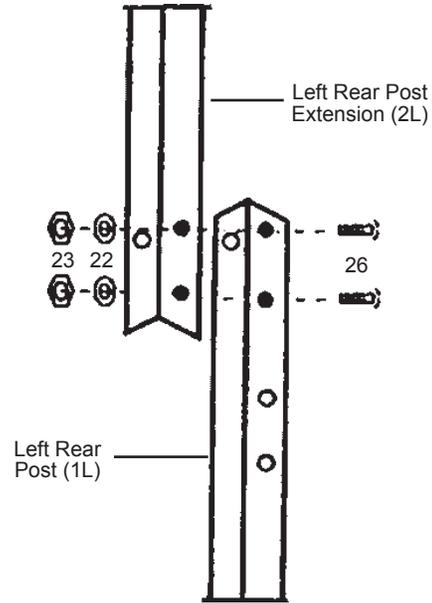


Fig. 1

1. Attach the Left Rear Post (1L) to the Left Post Extension (2L) using Bolts (26), Washers (22), and Nuts (23). Attach the Right Rear Post (1R) with the Right Post Extension (2R) using Bolts (26), Washers (22), and Nuts (23).

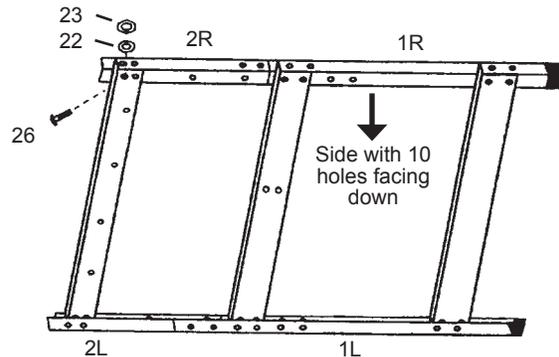


Fig. 2

**NOTE:** With the two Rear Posts laying on the floor, the sides with ten holes (2L & 1L, 2R & 1R) should be facing the floor.

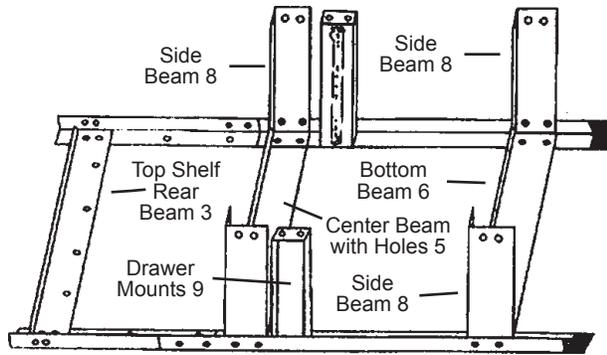


Fig. 3

- From top to bottom, connect the top shelf Rear Beam (3), the Center Beam with holes, in the middle (5), and a Bottom Beam (6) onto the two rear Legs using Bolts (26), Washers (22), and Nuts (23).

**NOTE:** Only put one screw in the top hole at each end of the Top Shelf Rear Beam (3) at this stage. The bottom hole will be used when the Peg Board (17) is fastened in Step 7.

- Using Bolts (26), Washers (22), and Nuts (23), attach two Side Beams (8) onto the rear legs at the Center Beam With Holes (5), to the back, and another two Side Beams (8) at the Bottom Beam (6).
- Attach both Drawer Mounts With Glide Rails (9) below the two Side Beams (8) using Bolts (27), Washers (22), and Nuts (24).

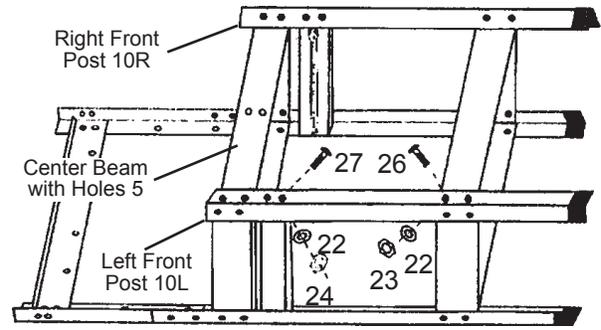


Fig. 4

- Attach the Left Front Post (10L) to the Left Side Beam (8) and Drawer Mount with Glide Rail (9), repeat with the Right Front Post (10R). Attach Center Beam With Holes (5), to the front, using Bolts (26, 27), Washers (22), and Nuts (23, 24). (See Fig. 4.)
- At the bottom, attach the Left Front Post (10L) to the Left Side Beam (8) and Bottom Beam (6) using Bolts (26), Washers (22) and Nuts (23). Repeat the procedure using the Right Front Post (10R) for the right side.

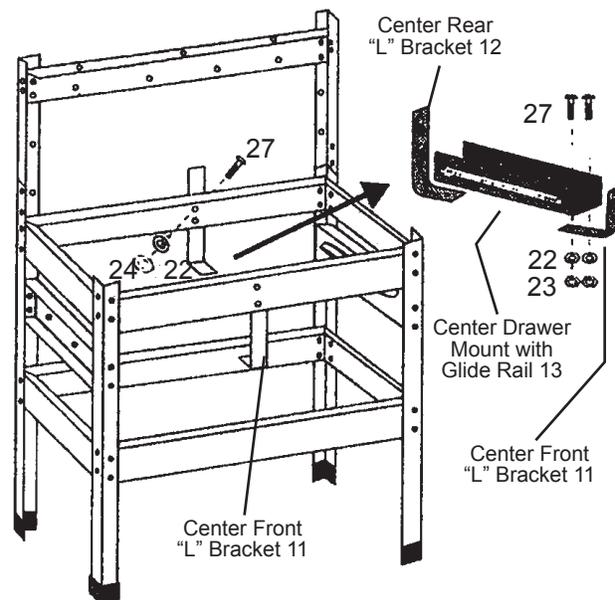
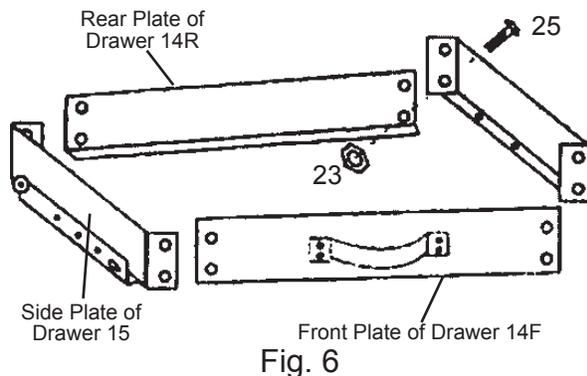


Fig. 5

- Stand the frame upright. Fit the Center Front "L" Bracket (11) inside the

Front Center Beam With Holes (5) using Bolts (27), Washers (22), and Nuts (24).

- Attach the Center Drawer Mount With Glide Rail (13) to the two "L" Brackets (11, 12) using Bolts (27), Washers (22), and Nuts (23).



- Attach the Front Plate of Drawer (14F), Side Plates of Drawer (15), and Rear Plate of Drawer (14R) together with Bolts (25) and Nuts (23).
- Repeat for the second drawer. Do not tighten the screws on the "L" Brackets, Center Drawer Mount With Glide Rail and two drawers until the two drawers are fit into the bench frame.

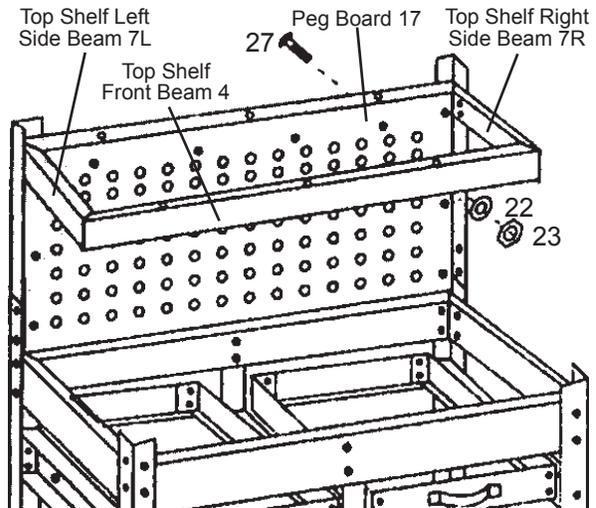


Fig. 7

- Attach the Peg Board (17) to the bottom holes of the Top Shelf Back Beam (3) using Bolts (27), Washers (22), and Nuts (23).
- Attach two Top Shelf Side Beams (7L, 7R) onto the Left & Right Post Extensions (2L, 2R) with Bolts (26), washers (22), and Nuts (23)
- Attach the Top Shelf Front Beam (4) with Bolts (26), Washers (22), and Nuts (23).

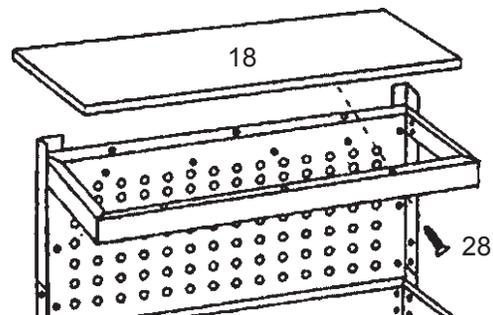
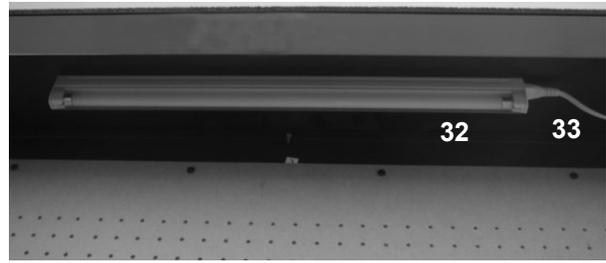


Fig 8

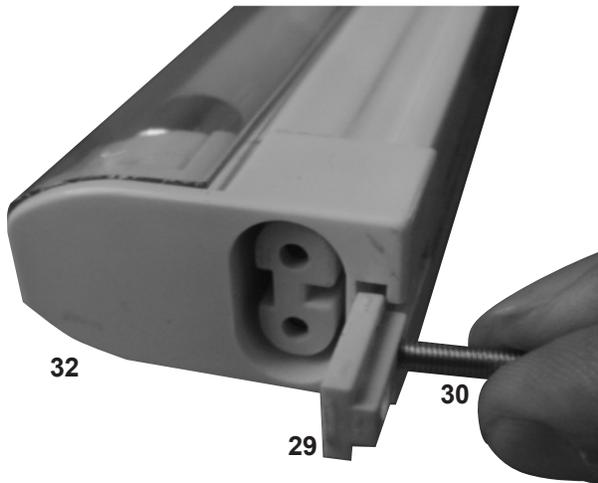
- Place the Top Shelf (18), Bench Top (19), Drawer Boards (20), and Bottom Board (21) into position. Attach the Top Shelf (18) using Wood Screws (28).



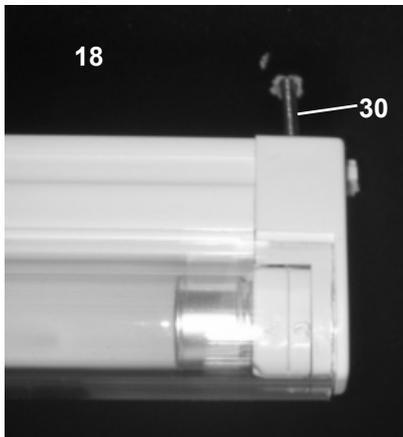
15. Insert a Slider Bolt (30) through each of the Lamp Mounting Sliders (29).



18. Attach the Lamp Power Cord (33) to the receptacle at the end of the Lamp (32). It will only connect one way.



16. Slide the Lamp Mounting Sliders (29) into the slot at the top of the Lamp (32), as shown above.



17. Insert the ends of the Bolts (30) through the holes underneath the Top Shelf (18) and secure in place with the Slider Nuts (31) from the top.

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## MAINTENANCE AND SERVICING

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Procedures not specifically explained in this manual must be performed only by a qualified technician.

### **⚠️ WARNING**

#### **TO PREVENT SERIOUS INJURY**

#### **FROM ACCIDENTAL OPERATION:**

Turn the Power Switch of the power-strip to its “OFF” position so that any power tool plugged into it cannot be accidentally turned on. Do this before performing any inspection, maintenance, or cleaning procedures.

1. **BEFORE EACH USE**, inspect the general condition of the bench. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, and any other condition that may affect its safe operation.
2. **AFTER USE**, clean external surfaces of the bench with clean cloth.
3. Vacuum Bench Top, wipe or brush clean.
4. The light fixture mounted underneath the top shelf has a transparent plastic cover over the bulb.
  - a. Gently pull straight down at both ends of the cover and set aside.
  - b. Remove the bulb by spinning the bulb 90°, rolling in a forward or backward direction and dropping the bulb straight down.
  - c. With the prongs on either end of the bulb vertically aligned, fit the new

bulb up into the slots at the right and left fixture receptacles.

- d. Rotate the bulb lengthwise 90° again to seat the bulb. Replace the clear cover.
5. **⚠️ WARNING!** If the supply cord of this workbench’s light or power strip is damaged, it must be replaced only by a qualified service technician.

**PLEASE READ THE FOLLOWING CAREFULLY**

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

**PARTS LIST**

Part	Description	Qty.
1L	Left Rear Post	1
1R	Right Rear Post	1
2L	Left Post Extension	1
2R	Right Post Extension	1
3	Top Shelf Rear Beam	1
4	Top Shelf Front Beam	1
5	Center Beam With Holes	2
6	Bottom Beam	2
7L	Top Shelf Left Side Beam	1
7R	Top Shelf Right Side Beam	1
8	Side Beam	4
9	Drawer Mounts With Glide Rails	2
10L	Left Front Post	1
10R	Right Front Post	1
11	Center Front "L" Bracket	1
12	Center Rear "L" Bracket	1
13	Center Drawer Mount w/ Rail	1
14F	Front Plates Of Drawer	2
14R	Rear Plates Of Drawer	2
15	Side Plates Of Drawer	4

**PARTS LIST**

Part	Description	Qty.
16	Hooks	20
17	Peg Board	1
18	Top Shelf	1
19	Bench Top	1
20	Drawer Boards	2
21	Bottom Board	1
22	M6 Washers	72
23	M6 Nuts	76
24	M6 Lock Nuts	12
25	M6 x 8 mm Bolt	16
26	M6 x 10 mm Bolt	46
27	M6 x 18 mm Bolt	26
28	Wood Screws	6
29*	Lamp Mounting Slider	2
30*	Slider Bolt	2
31*	Slider Nut	2
32*	Lamp	1
33*	Lamp Power Cord	1

\*Not shown in diagram.

**Record Product's Serial Number Here:** \_\_\_\_\_

**Note:** If product has no serial number, record month and year of purchase instead.

**Note:** Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

# ASSEMBLY DIAGRAM

