



For questions or help with this product contact Tech Support at (570) 546-9663 or techsupport@grizzly.com

MODEL T31850 ADJUSTABLE WORKBENCH LEGS INSTRUCTIONS

Introduction

The Model T31850 Adjustable Workbench Legs allows you to effortlessly raise and lower the height of your workbench, desk, or table top electronically.

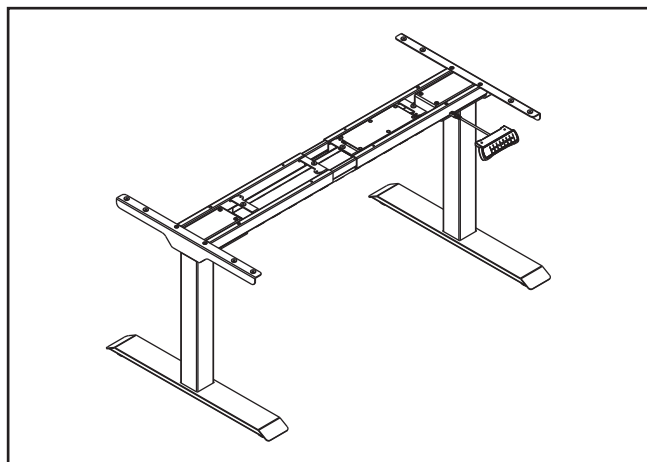


Figure 1. Model T31850 Adjustable Workbench Legs.

Inventory

Description	Qty
A. Feet	2
B. Lifting Columns	2
C. Cable Tray	1
D. Support Beam	1
E. Side Brackets	2
F. Control Panel.....	1
G. Power Cord.....	1
H. Flat Head Cap Screws M6-1 x 12	4
I. Button Head Cap Screws M6-1 x 10.....	4
J. Button Head Cap Screws M6-1 x 16.....	8
K. Button Head Cap Screws M6-1 x 12.....	12
L. Tap Screws 4.2 x 19.....	16
M. Hex Wrench 4mm.....	1

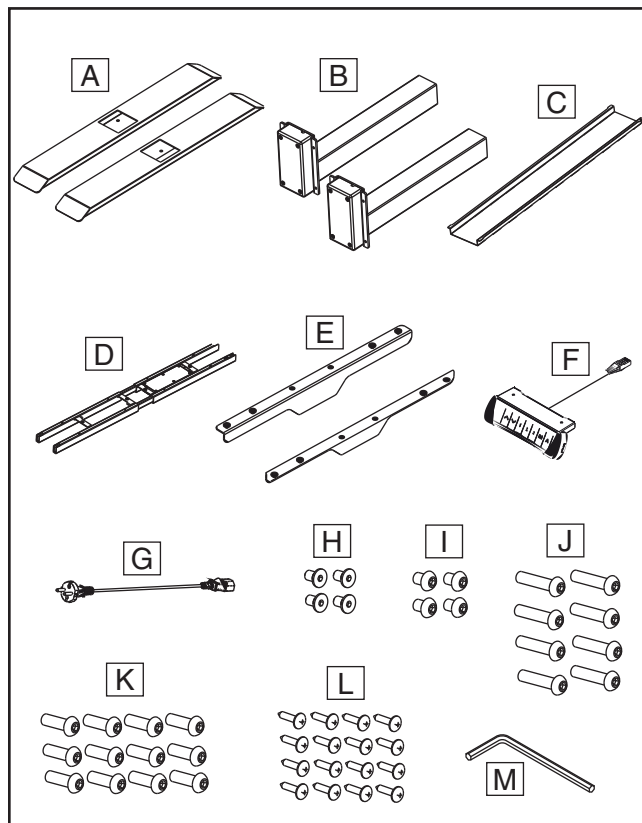


Figure 2. Inventory.

Specifications

Max. Weight Capacity	275 lbs.
Height Range	22-7/8" - 48-3/8" 1/2
Width Range	43-3/8" - 74-7/8"

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(FOR MODELS MFD. SINCE 11/20) #JM22350 PRINTED IN CHINA

V1.10.22

Keep for Future Reference

Needed for Setup

The following items are needed, but not included, for the setup/assembly of the Model T31850.

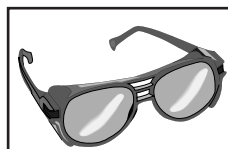
Description

Qty

- Additional Person 1
- Safety Glasses (for each person) 1 Pr.
- Phillips Head Screwdriver #2 1
- Tape Measure 1
- Shop Rags As Needed

WARNING

DO NOT exceed table weight capacity of 275 lbs. Sudden change in dynamic load at maximum weight capacity could cause table to tip or collapse, resulting in serious personal injury or property damage.



WARNING

Wear safety glasses during the entire setup process!

Assembly

The Model T31850 Adjustable Workbench Legs must be fully assembled, and a table must be attached before the machine can be used. Before beginning the assembly process, gather all listed inventory items.

To assemble workbench legs:

1. Attach side brackets to ends of support beam with (4) M6-1 x 12 flat head cap screws (see **Figure 3**).

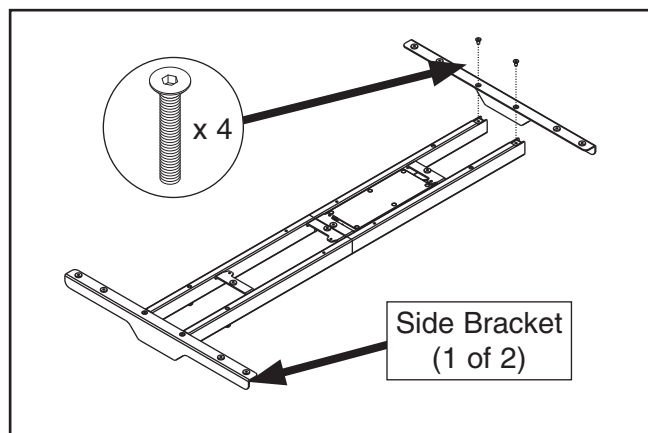


Figure 3. Attaching side brackets.

2. Insert lifting columns into ends of support beams and secure with (8) M6-1 x 12 button head cap screws (see **Figure 4**).

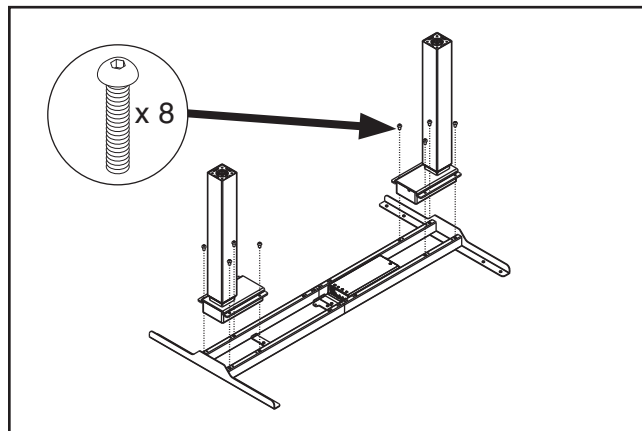


Figure 4. Attaching lifting columns.

3. Attach feet to bottom of lifting columns with (8) M6-1 x 16 button head cap screws (see **Figure 5**).

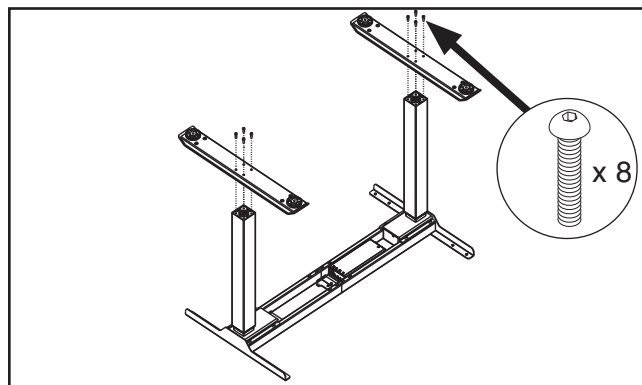


Figure 5. Installing feet.

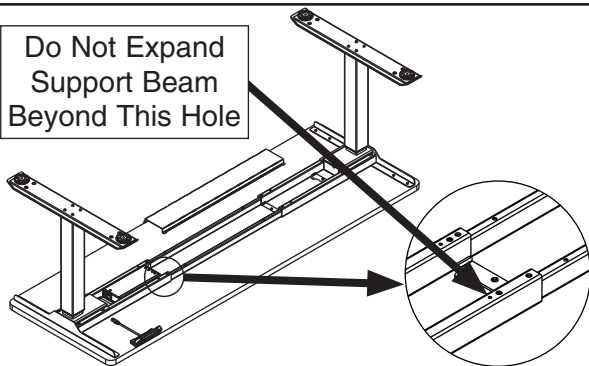
4. Place table (not included) face down on floor, then place workbench legs on table).



CAUTION

Do not extend workbench legs beyond hole shown here or support beam could be damaged.

Do Not Expand Support Beam Beyond This Hole



5. Loosen (4) button head cap screws (see **Figure 6A**) on support beam.
6. Adjust width of workbench legs to fit your table (not included), as shown in **Figure 6B**, then tighten screws to secure position.

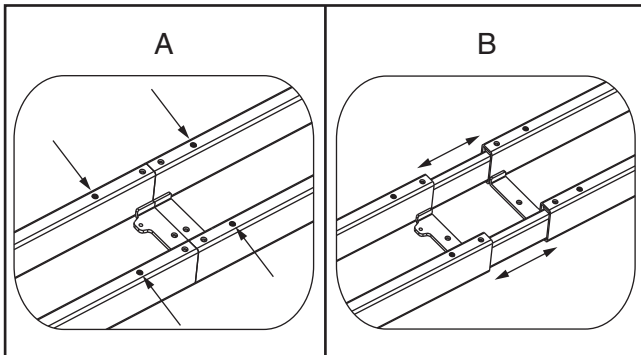


Figure 6. Adjusting width of workbench legs.

7. Center workbench legs on table (front-to-back and side-to-side), then attach legs to table with (12) 4.2 x 19 tap screws (see **Figure 7**).

Note: We recommend drilling pilot holes in the table to make installing these screws easier.

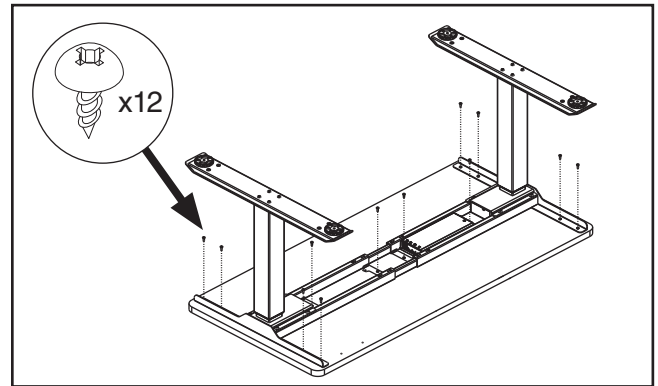


Figure 7. Installing tabletop.

8. Install control panel on right-hand side of table (see **Figure 8**) with (2) 4.2 x 19 tap screws.

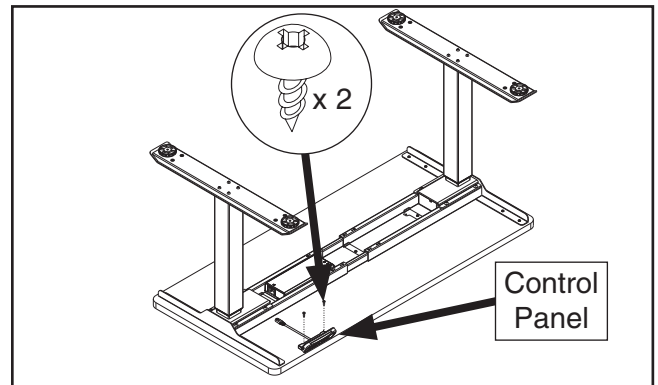


Figure 8. Installing control panel.

9. Connect control panel cables to control box as shown in **Figure 9**.

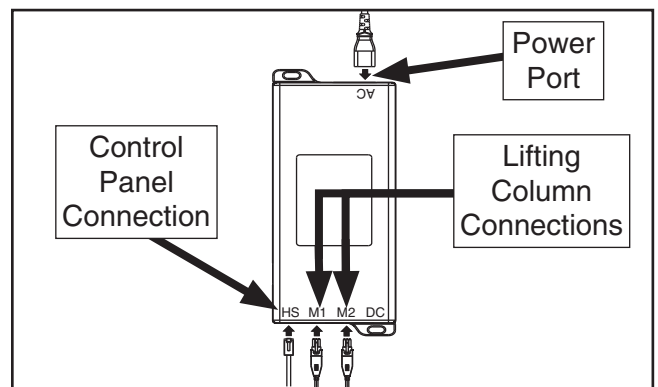


Figure 9. Installing cables.



10. Measure overall width of workbench legs. If overall width is *less than* 67 $\frac{3}{4}$ ", proceed to **Step 11**. If overall width is *greater than* 67 $\frac{3}{4}$ ", proceed to **Step 13**.

11. Install (2) M6-1 x 10 button head cap screws on one side of rails, as shown in **Figure 10**. Then position edge of cable tray under heads of cap screws. Only hand-tighten for now.

12. Install (2) M6-1 x 10 button head cap screws on opposite side of rails, as shown in **Figure 10**. Capture opposite edge of cable tray under heads of cap screws, then tighten all four screws.

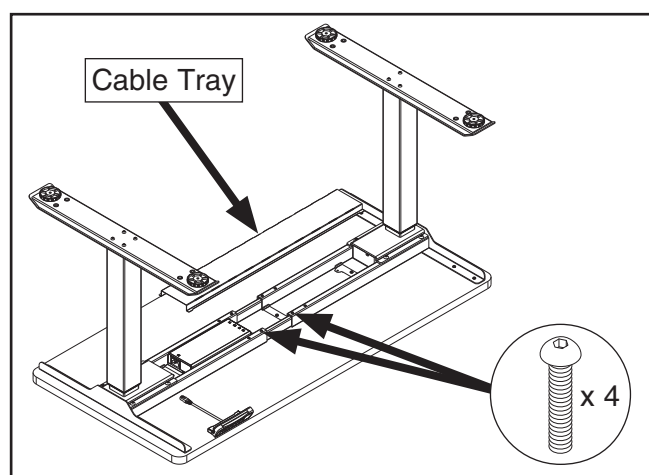


Figure 10. Installing cable tray when leg width is *less than* 67 $\frac{3}{4}$ ".

13. Install (4) M6-1 x 12 button head cap screws (see **Figure 11**) in support beam.

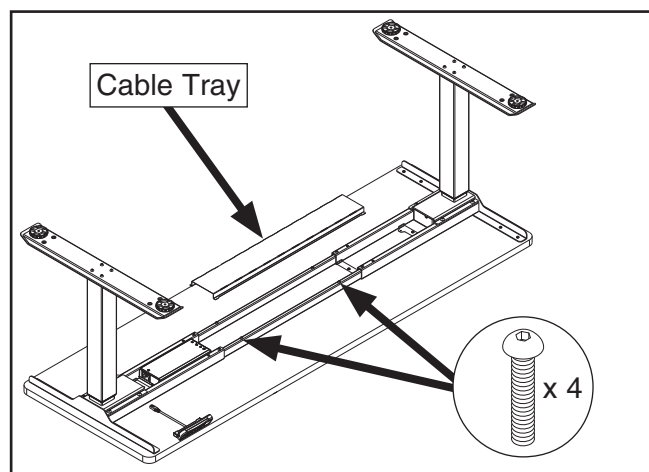


Figure 11. Installing cable tray when leg width is *greater than* 67 $\frac{3}{4}$ ".

14. Perform **Steps 11–12**.

Using Control Panel

The model T31850 control panel (see **Figure 12**) allows you to raise and lower the table, save up to three table positions, and set an alarm as a reminder to change your posture.

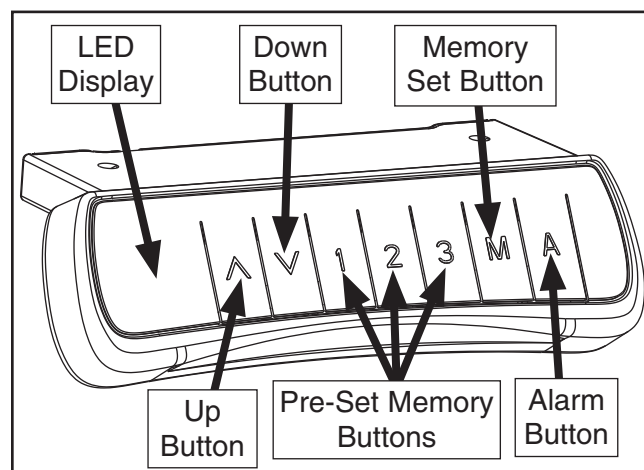


Figure 12. Control panel functions.

Raising and Lowering Table

Press the \wedge button to raise the table, and press the \vee button to lower the table.

Saving Table Positions

Three pre-set memory buttons can be used to automatically move the table to saved positions. Use the \wedge \vee buttons to raise or lower the table to the desired height. Press the M button. The LED screen will display S-. Press the 1, 2, or 3 button to save the table position. The LED screen will display S-1, S-2, or S-3, depending on which memory button is chosen, to confirm the position has been saved.

Using Alarm Function

The control panel can be programmed to set a reminder/alarm to stand up from the table. Press the A button to activate this function. The LED will display "00". When the LED screen begins flashing, press the \wedge \vee buttons to adjust the reminder time. The default time is set for 45 minutes. When finished, press the A button to save the setting, or wait 5 seconds and the time will automatically be saved. When the countdown reaches zero, the LED will flash "00", and a tone will sound for ten seconds. To deactivate the alarm, press and hold the A button for three seconds.



Setting Collision Sensitivity

During height adjustments, if the table comes into contact with another object, movement will automatically cease. To adjust the level of sensitivity, press the \wedge \vee buttons at the same time. The LED will display A-1 (low), A-2 (medium), and A-3 (high). Press the \wedge \vee buttons to scroll through the selections. After five seconds, the selection will be automatically saved.

Circuit Requirements for 110V

This machine is prewired to operate on a power supply circuit that has a verified ground and meets the following requirements:

Nominal Voltage 110V, 115V, 120V
Cycle 60 Hz
Phase Single-Phase
Power Supply Circuit 15 Amps
Plug/Receptacle NEMA 5-15

Grounding & Plug Requirements

This machine **MUST** be grounded. In the event of certain malfunctions or breakdowns, grounding reduces the risk of electric shock by providing a path of least resistance for electric current.

This machine is equipped with a power cord that has an equipment-grounding wire and a grounding plug. Only insert plug into a matching receptacle (outlet) that is properly installed and grounded in accordance with all local codes and ordinances. **DO NOT** modify the provided plug!

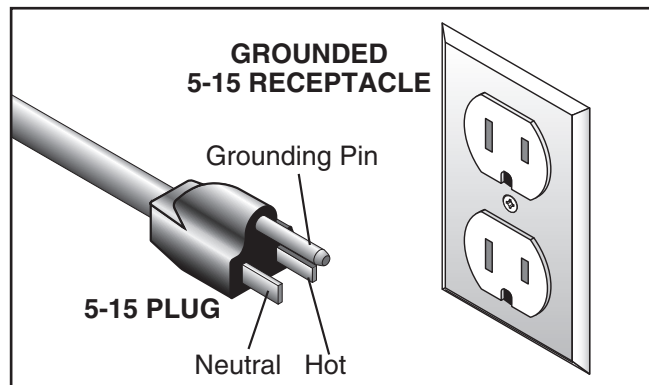


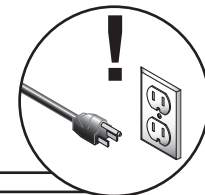
Figure 13. Typical 5-15 plug and receptacle.

WARNING

- Keep electrical connections clear of flammable materials.
- Keep electrical connections dry. Do not use in damp or wet conditions.
- Do not run cord under floor coverings or where it may be tripped over.
- Not meant for outdoor use.
- Prevent unauthorized use by children or untrained users.



Troubleshooting

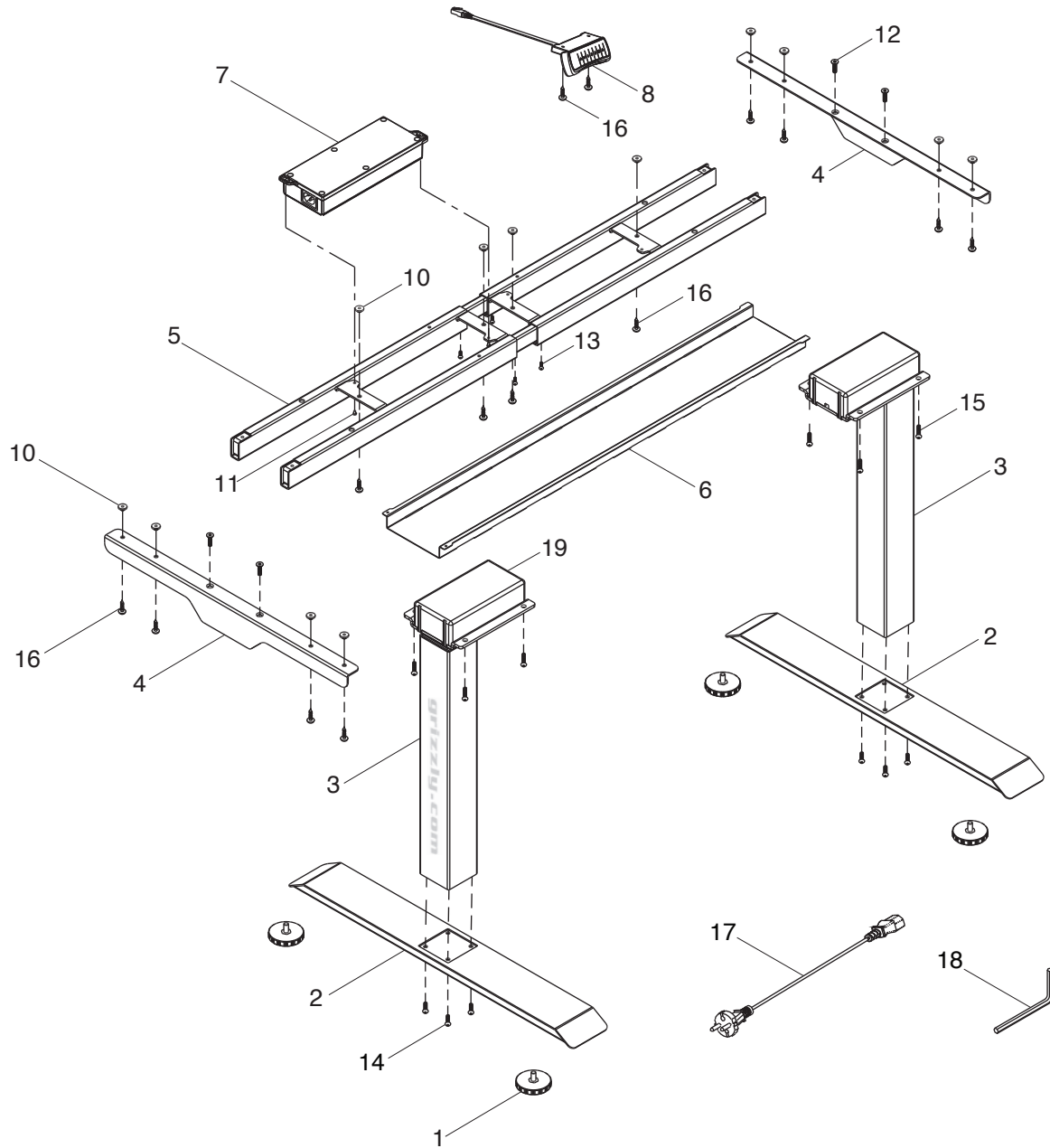


Review the troubleshooting procedures in this section if a problem develops with your machine. If you need replacement parts or additional help with a procedure, call our Technical Support. **Note:** *Please gather the serial number and manufacture date of your machine before calling.*

Symptom	Possible Cause	Possible Solution
No response from the control panel.	<ol style="list-style-type: none"> 1. Incorrect power supply voltage or circuit size. 2. Power supply circuit breaker tripped or fuse blown. 3. Incorrect cable connections. 4. Overwork/overheating. 5. Control panel at fault. 6. Control box at fault. 7. Motor at fault. 	<ol style="list-style-type: none"> 1. Ensure correct power supply voltage and circuit size (see Page 5). 2. Ensure circuit is free of shorts. Reset circuit breaker or reset fuse. 3. Make sure cables are connected properly. 4. Disconnect from power. Reconnect to power after 18 minutes and restart. 5. Replace control panel. 6. Replace control box. 7. Replace motor.
Slow rising/declining speed.	<ol style="list-style-type: none"> 1. Maximum table weight exceeded. 2. Table not positioned correctly/not level. 3. Extension cord too long. 4. Motor at fault. 	<ol style="list-style-type: none"> 1. Remove excess weight. 2. Check positioning of legs and table and level. 3. Move machine closer to power supply; use shorter extension cord. 4. Replace motor.
Table will go up, but not go down.	<ol style="list-style-type: none"> 1. Table not positioned correctly/not level. 2. Incorrect cable connections. 	<ol style="list-style-type: none"> 1. Reposition and level table. 2. Make sure cables are connected properly (see Page 3).
Table gradually loses height.	<ol style="list-style-type: none"> 1. Maximum table weight exceeded. 2. Fasteners loose. 	<ol style="list-style-type: none"> 1. Remove excess weight. 2. Tighten fasteners.
Range of height movement limited.	<ol style="list-style-type: none"> 1. Control panel not configured properly. 	<ol style="list-style-type: none"> 1. Press "M" and "3" together for at least three seconds. Two continuous beeps will signal restoration of factory settings.
Table has vibration or noisy operation.	<ol style="list-style-type: none"> 1. Motor or component loose. 2. Motor bearings at fault. 	<ol style="list-style-type: none"> 1. Replace damaged or missing bolts/nuts or tighten if loose. 2. Test by rotating shaft. Rotational grinding/loose shaft requires bearing replacement.
Display shows "ASR".	<ol style="list-style-type: none"> 1. Control panel needs resetting. 	<ol style="list-style-type: none"> 1. Press the down button until desk reaches it's lowest point and rebounds to a stop. This means reset has finished. If reset fails and display shows "E01" or "E02" wait 18 minutes and retry the reset. If the previous steps fail. Disconnect table from power and reconnect. Press the down button to start the reset process.



T31850 Parts Breakdown & List



REF PART # DESCRIPTION

1	PT31850001	PAD
2	PT31850002	FOOT
3	PT31850003	LIFTING COLUMN
4	PT31850004	SIDE BRACKET
5	PT31850005	SUPPORT BEAM
6	PT31850006	CABLE TRAY
7	PT31850007	CONTROL BOX
8	PT31850008	HAND SWITCH
10	PT31850010	DAMPING PAD

REF PART # DESCRIPTION

11	PT31850011	PHLP HD SCR M5-.8 X 8
12	PT31850012	FLAT HD CAP SCR M6-1 X 12
13	PT31850013	BUTTON HD CAP SCR M6-1 X 10
14	PT31850014	BUTTON HD CAP SCR M6-1 X 16
15	PT31850015	BUTTON HD CAP SCR M6-1 X 12
16	PT31850016	TAP SCREW 4.2 X 19
17	PT31850017	POWER CORD 18G 3W 122" 5-15P
18	PT31850018	HEX WRENCH 4MM
19	PT31850019	DC MOTOR 24V

Please Note: We do our best to stock replacement parts whenever possible, but we cannot guarantee that all parts shown here are available for purchase. Call (800) 523-4777 or visit our online parts store at www.grizzly.com to check for availability.





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