

Neutron Speed Pro Tire Changer

Part Number: 2103920001



Thanks for your purchase of the Neutron Speed Pro Tire changer. This tire changer was designed for changing mouse inserts but works great on tubed tires as well. Please take note of the information and instructions below to get the most out of your Neutron tire changer.

Assembly: Before you throw any packaging away, make sure you received all the necessary hardware, refer to the back page for a complete parts list and diagram.

ASSEMBLY INSTRUCTIONS AND INFORMATION

1. Start by separating the back page with the parts list and exploded view. Take a moment to look over the parts and assembly view and familiarize yourself with it. We recommend keeping it next to these assembly instructions for easy reference.
2. Assemble the two secondary uprights.
 - A. Set the slider (15) onto the top of the upright and attach by inserting 2 of the M8 flat head screws (22) through the slider and the upright. Secure with m8 nuts (21) and tighten.
 - B. Insert a hand knob (18) through the hole in c-channel and thread into a square nut (12). Leave the square nuts (12) very loose to make final assembly easier.
3. Assemble the main arm upright (part 1).
 - A. Insert a hand knob (18) through one of the holes in the c-channel and thread on a square nut. Leave this very loose for now.
 - B. Repeat step A with a second hand knob.
 - C. Take the pivot arm (2) and install the end that is closer to the tabs into the top of the main upright. Put one of bolt 23 through the hole in the tab of the upright, through the pivot arm, and through the other side. Secure with one of nut 21, this should be snug but not too tight where it effects the action of the pivot arm.
 - D. Take the pusher (3) and install the top into the pivot arm brackets. Use bolt 23 to secure the pusher to the pivot arm. This should be snug but not too tight where the smooth action of the pusher is effected.
 - E. Take one of the linkage arms and put one of bolt 20 through each of the 2 holes. Put one of the PTFE washers (17) over each bolt.
 - F. Put the rear bolt of the linkage (the smooth rounded end without the tab) through the slot on the main upright and put another PTFE washer (17) on the bolt. Install the other linkage arm (9) over the bolt so that it matches the first one. Secure with an M8 nut (21) and snug up. It should move freely.
 - G. Install the front of both lower linkage arms onto the bottom of the pusher. The bolt should go through the linkage (9), a PTFE washer (17), the pusher (3), another PTFE washer (17), the other linkage (9), and then be secured with an M8 nut (21). Snug up the nut. It should move freely.
 - H. Verify smooth action of the pivot arm assembly with the pusher. The linkage arms should slide effortlessly up and down the slot in the main upright. Adjust bolt engagement for a balance between tightness and smooth operation.
4. Install the slider onto the main upright. Put the slider onto the main upright's pad as in step 2A. Secure by inserting both of bolt 22 through the holes in the slider and through the upright. Install and tighten 2 of nut 21.
5. Assemble the 3 legs that make up the base. The foot on each leg should face away from the middle. Install the hand knob (part 19) through leg 3, through leg 1, and thread it into leg 2. Tighten this hand knob.

Step 2 hardware:

1 per upright– Item #: 5,12,15, and 18
2 per upright– Item #: 21 and 22

Step 3A/B hardware:

1 for upright– Item #: 15
2 for upright– Item #: 12, 18, 21, and 22

Step 3C-G hardware:

1 for upright– Item #: 2 and 3
2 for upright– Item #: 9, 20, and 23
4 for upright– Item #: 17 and 21

Step 4 hardware:

1 each– Item #: 15
2 each– Item #: 21 and 22

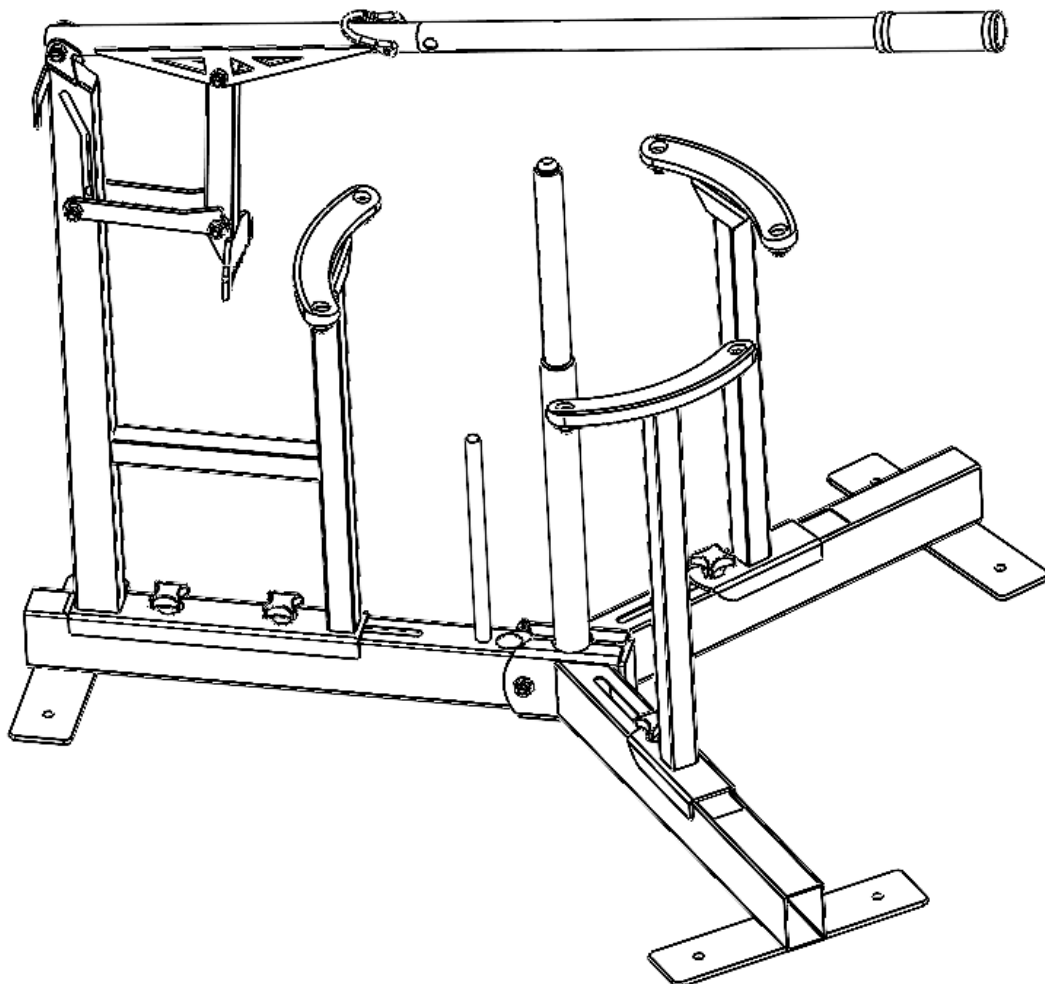
Step 5 hardware:

Item #: 6, 7, and 8 (legs), 19



6. Install the main upright (with the pusher) onto leg 1.
 - A. With the hand knobs very loose, put the square nut closest to the end with the slider into the cutout in leg1 and slide it towards the middle.
 - B. Tip the top of the main upright towards the middle and slide it forward more. Set upright down onto the leg so that the second square nut drops into the cutout.
 - C. Once in position slide the upright forward into the desired position and tighten both hand knobs.
7. Install the 2 secondary uprights into legs 2 and 3. These uprights can go in either leg.
 - A. The Hand knob should be toward the center of the tire changer. Set an upright into leg 2 so the square nut goes into the cutout in the leg. Slide it forward to the desired size marking (we suggest 21") and tighten the hand knob.
 - B. Repeat the previous step with the other secondary upright on leg 3.
8. Install the axle mount. Thread this into the hole in the middle of the base.
9. Connect the Arm extension to the pivot arm by sliding the end of the extension that doesn't have the hand grip into the pivot arm. Use the clevis pin (part 16) to secure them.
10. The 2 holes near the axle mount are for holding the axle shaft adaptors when not in use (parts 11/13/14).

Step 9 hardware:
Item #: 16



ITEM NO.	PART NUMBER	QTY.
1	Main Upright	1
2	Pivot Arm	1
3	Pusher	1
4	Arm Extension	1
5	Secondary Upright	2
6	Leg 3	1
7	Leg 1	1
8	Leg 2	1
9	Linkage	2
10	Axlemount	1
11	Axle Shaft (19mm)	1
12	Square Nut	4
13	Sleeve (24mm)	1
14	Axle Shaft (12mm)	1
15	SLIDER	3
16	6mm Clevis Pin	1
17	M8 PTFE Washer	4
18	M8 x 1_25 x 20mm hand knob	4
19	M8 x 1_25 x 60mm Hand Knob	1
20	M8 x 1_25 x 50mm Zinc Button Head Bolt	2
21	M8 x 1_25 Zinc Nyloc Nut	10
22	M8 x 1_25 x 20mm Zinc Flat Head Screw	6
23	M8 x 1_25 x 45mm Zinc Button Head Bolt	2

