



SNOW GROOMER PRO

Assembly Instructions

48" and 72" models

www.snowgroomers.net

BEFORE YOU START

This guide follows our Snow Groomer Pro assembly video. Watch it alongside these steps:
youtu.be/jr_0LdF9OXQ

TOOLS AND SUPPLIES

- Hand wrenches and a socket set. We recommend hand tools, not power tools.
- A second wrench to hold carriage bolts and nuts while you tighten.
- A rubber mallet, for a light tap when a bolt needs help going through.
- Work gloves.
- Wood blocks or a sturdy stand to support the beams and actuator.
- Zip ties for the actuator cable (if not supplied).
- A helper. A second set of hands makes the main beam and actuator much easier.

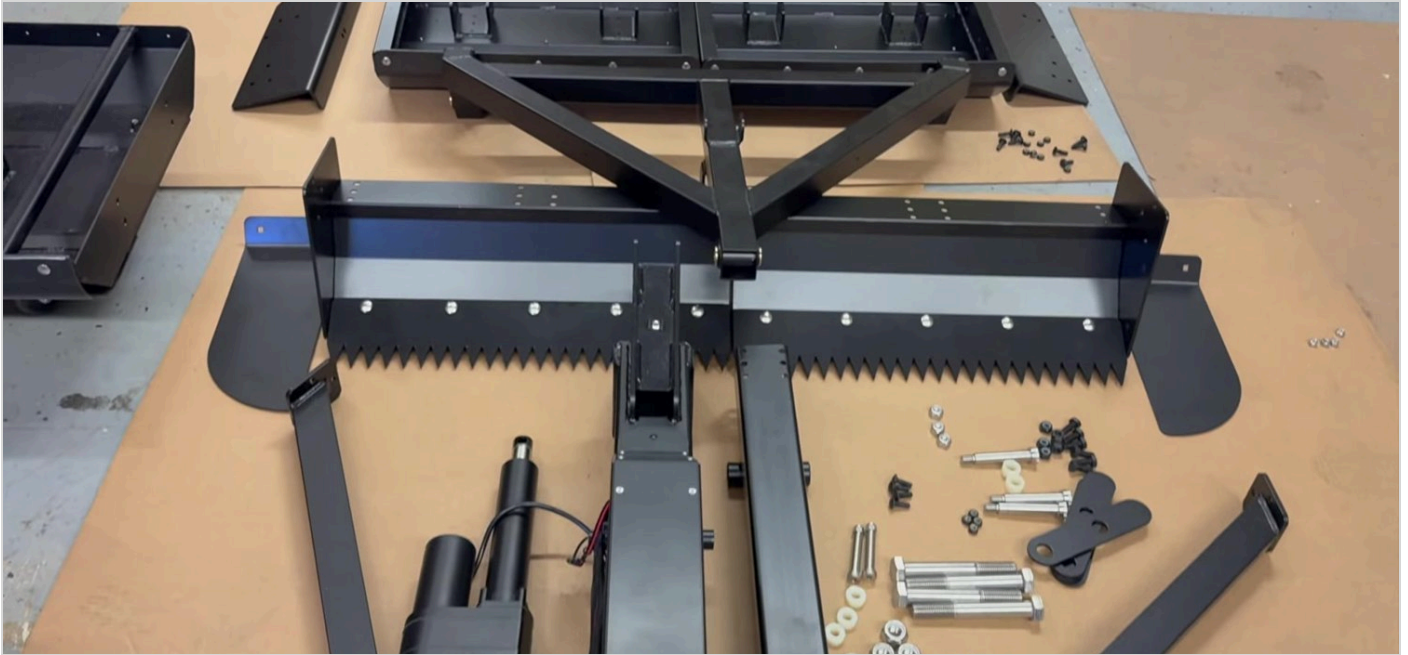
SAFETY

- **The plow blades are very sharp.** They are made to cut. Wear gloves and stay aware of the blades while you work.
- **Use hand tools.** Power tools can break things very quickly.
- **Support heavy parts.** Block up the main beam and actuator, or have someone hold them.
- **Keep hands clear** of the frame and plow whenever the actuator is moving.

GOOD TO KNOW

- Lay all the parts out and check that you have all the nuts and bolts before you begin.
- Tighten the chassis bolts in Step 1 right away. Leave everything else loose or finger-tight until it all fits together, then tighten as each step says.
- 48" and 72" models go together the same way. The 72" has an extra chassis pan and an extra plow section in the middle.

WHAT'S IN THE BOX



All the parts laid out before assembly (video 0:19).

MAIN PARTS

- Chassis compaction pans (2 on 48", 3 on 72")
- A-frame
- Plow sections (2 on 48", 3 on 72")
- Lower beam
- Side braces (48" or 72" set)
- Main beam
- Actuator with wiring
- Spring
- Track runners (left and right)
- Wheel kit
- Powder wings (optional)

HARDWARE SEEN IN THE VIDEO

- Carriage bolts and nuts
- Large specialty bolts with copper pre-oiled sleeves
- Thick and thin washers
- Plastic spacers for the actuator
- Hinge washers and nylon lock nuts
- Pins

Before you start, make sure you have all the nuts and bolts. Missing something? Call 1-800-430-7120.

ASSEMBLY STEPS 1-2

1

BOLT THE CHASSIS PANS TOGETHER

Video 0:24



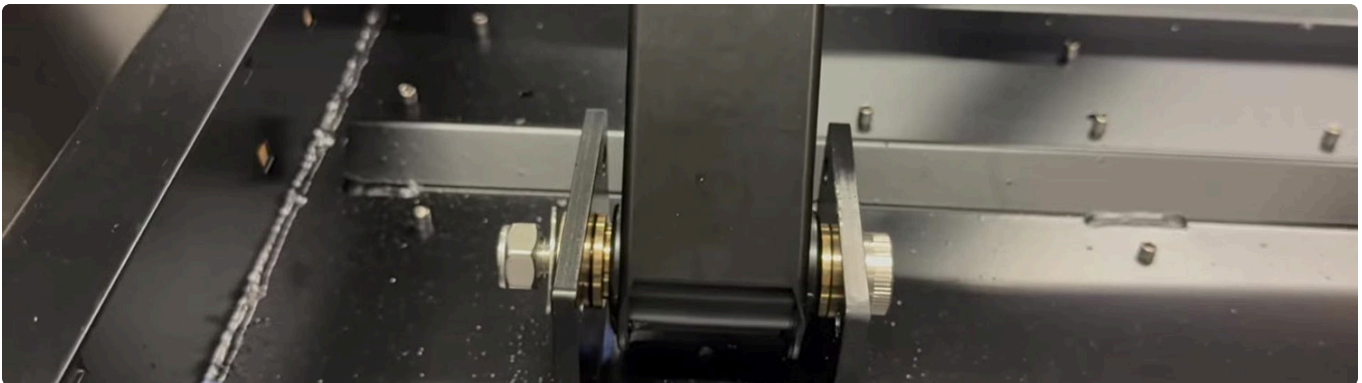
- Start at the back of the groomer with the chassis compaction pans.
- 48" models use two pans. 72" models have an extra pan in the middle.
- Line up the holes and push the carriage bolts through. There are eight. They can face either way.
- Hold the carriage bolt so it does not spin, and tighten the nut.
- Tighten these bolts now. The chassis needs to be squeezed together before the A-frame goes on.

⚠ Use hand tools, not power tools. Power tools can break parts quickly.

2

INSTALL THE A-FRAME

Video 1:39



- Set the A-frame into the brackets on the chassis.
- Make sure a copper pre-oiled sleeve is on both sides of each A-frame pivot.
- Push a large specialty bolt through from one side to the other. Insert it from the side you can reach to tighten it.
- Lift or shift the A-frame a little if the holes do not line up. A light tap may help.
- No washer goes on the bolt-head side. The head must sit flat in the bracket.
- On the nut side, add the thick washer, then the thin washer, then the nut.
- Leave the nut finger-tight for now.

ASSEMBLY STEPS 3-4

3 ASSEMBLE THE PLOW

Video 3:42

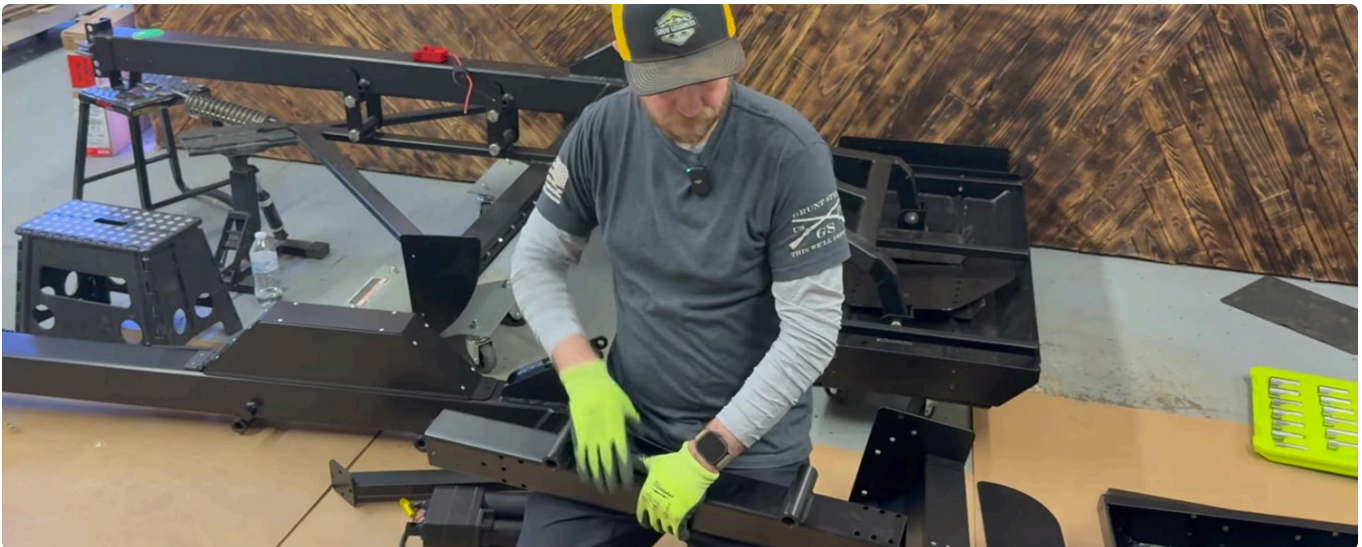


- 48" models have two plow sections. 72" models have a third section in the middle.
- Join the sections with four carriage bolts at each joint.
- Finger-tighten only. Everything on the front stays loose until it all fits together.

⚠ The plow blades are made to cut and are very sharp. Wear gloves and watch your hands.

4 MOUNT THE LOWER BEAM TO THE PLOW

Video 4:39

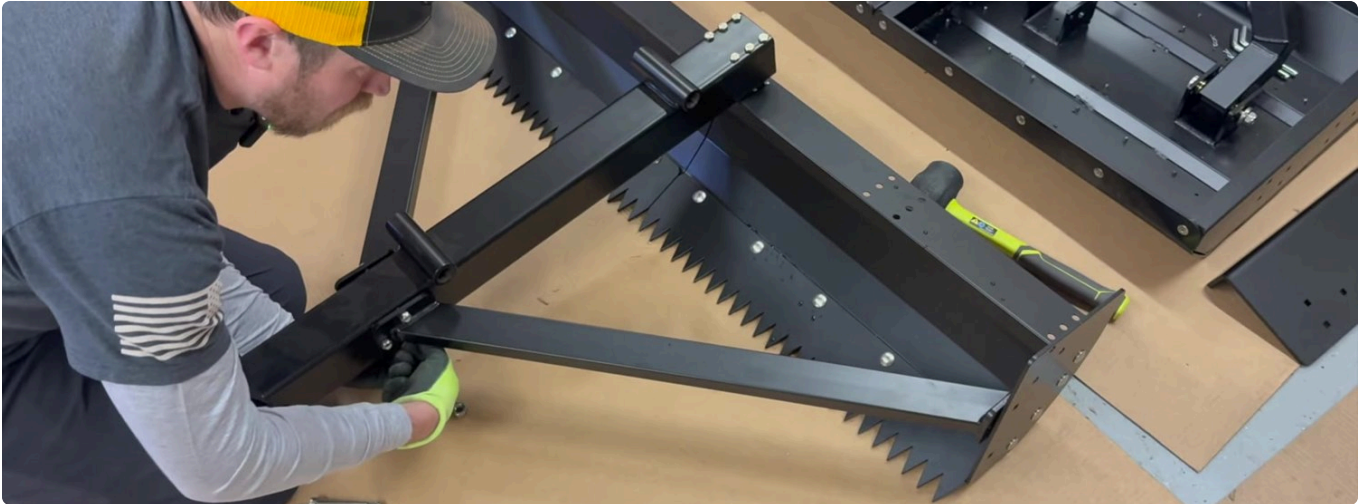


- The lower beam attaches directly to the plow. Later it connects to the bigger upper main beam.
- Fasten it with six bolts and six nuts.
- Rotate the plow up a little while you hold everything. The back bolts are the hardest to reach.
- Keep these bolts loose for now.

ASSEMBLY STEPS 5-6

5 INSTALL THE SIDE BRACES

Video 5:42



- The side braces connect the lower beam to the outside of the plow.
- The 72" and 48" plows use different braces. Use the set that matches your plow.
- Each bolt goes through both parts at the same time, so get the angle right first.
- Line up one bolt, then the bottom one. There are three bolts on each side.
- Keep everything loose.

6 FIT THE SPRING BOLT ON THE LOWER BEAM

Video 7:25



- At the back end of the lower beam, slide the spring's hook over the bolt.
- Put a washer on both sides, then the nut.
- This bolt is the same size as other bolts on the groomer. If one ever breaks or bends, you can borrow one from here.

ASSEMBLY STEPS 7-8

7

TIGHTEN THE LOWER ASSEMBLY

Video 8:05



- With the plow, lower beam and braces all together, go back and tighten them.
- Tighten these bolts before you move on to the upper parts. This pulls everything together.
- Hold the carriage bolts so they do not spin.

8

LINE UP THE MAIN BEAM

Video 8:33



- Line the big main beam up with the A-frame. Take your time.
- An extra set of hands really helps you move the beam around.
- Where the A-frame meets the main beam, use two washers: the thick one, then the thin one.
- Put the bolt through and add the nut.

⚠ The main beam is heavy. Get a helper or support it on a block.

ASSEMBLY STEPS 9-10

9

INSTALL THE ACTUATOR

Video 9:13



- While you are here, install the actuator. Block it up or have a helper hold it.
- Put a plastic spacer on each side. The actuator sits between the two spacers.
- Push the bolt through, add a washer, and hand-tighten the nut.
- Repeat at the bottom end: two plastic spacers, the bolt, a washer and the nut.
- If the bolt will not go in, lower the block a little to get a better angle.

10

PUT IN THE PINS AND CONNECT THE WIRING

Video 10:34



- Put the supplied pins in the back of the groomer.
- Plug in the connectors by color: yellow to yellow and blue to blue.
- Zip-tie the cable at the red spot so it stays tucked away.
- Leave enough slack so the cable is never pulled tight.
- The 12 V system is shown. Milwaukee and DeWalt battery versions are also available.

ASSEMBLY STEPS 11-12

11

RAISE THE MAIN BEAM WITH THE ACTUATOR

Video 11:40



- Use the electric lift to raise the main beam. This gives you room to slide the plow underneath.
- The actuator also pulls the parts closer together as it moves, so watch the gap.
- Adjust the height until the plow fits under the main beam.

⚠ Keep hands clear of the frame while the actuator is moving.

12

MOUNT THE PLOW TO THE MAIN BEAM

Video 12:00



- Slide the plow assembly under the big top main beam.
- Fit the hinge washers so they sit against the beam, as shown in the video.
- Lift or lower the main beam with the actuator to line up the holes.
- Do the same on the other side.
- Add the nylon lock nuts and leave them finger-tight for now.

ASSEMBLY STEPS 13-14

13

INSTALL THE SPRING AND SET THE TENSION

Video 13:11



- The spring connects at two points: the lower beam and the main beam.
- Use the adjuster up top to set the spring tension.
- Set it just a little loose. It should not be under constant pressure.
- Too loose and the plow bounces both ways.
- Just tight enough means the plow teeth push back when they hit something, then spring forward again.

14

TIGHTEN ALL BOLTS

Video 14:04



- Go over the whole groomer and tighten every bolt.
- Check that everything moves freely and is ready to go.

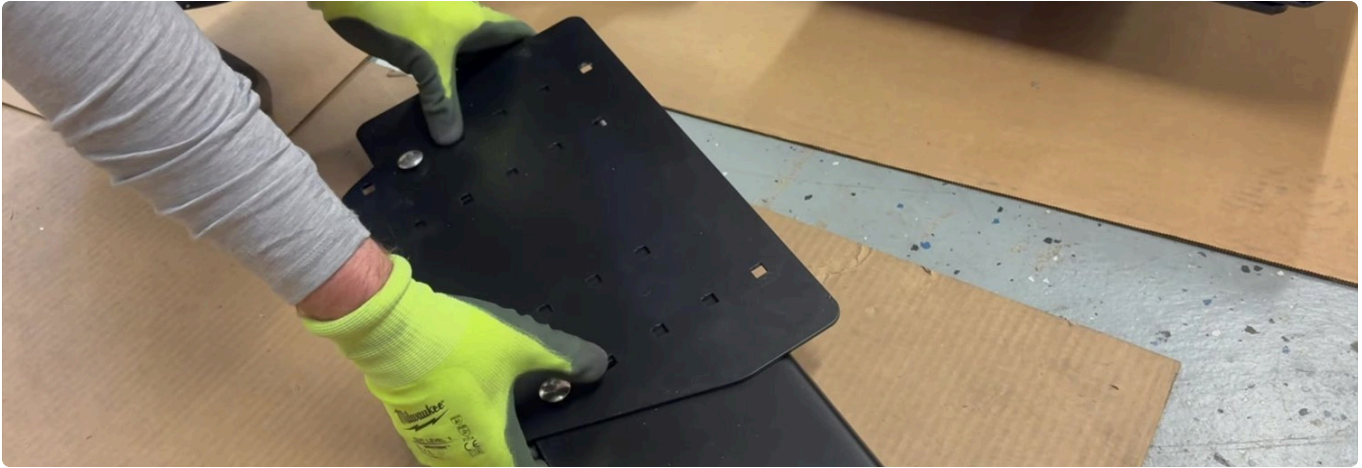
⚠ Use hand tools so you do not break or over-tighten parts.

ASSEMBLY STEPS 15-16

15

INSTALL THE TRACK RUNNERS

Video 14:11



- The track runners are side-specific. Check the left and right before you bolt them on.
- Each runner goes on the outside, with its curl facing forward. The wheel kit wheel will sit on the outside.
- Set the groomer up on a block so you can reach underneath.
- Lay the runner down and line it up. The bottom bolt goes in the second hole, so use the second and third holes on both sides.
- Put two bolts in first to line it up. There are four in total.

16

INSTALL THE WHEEL KIT

Video 15:14



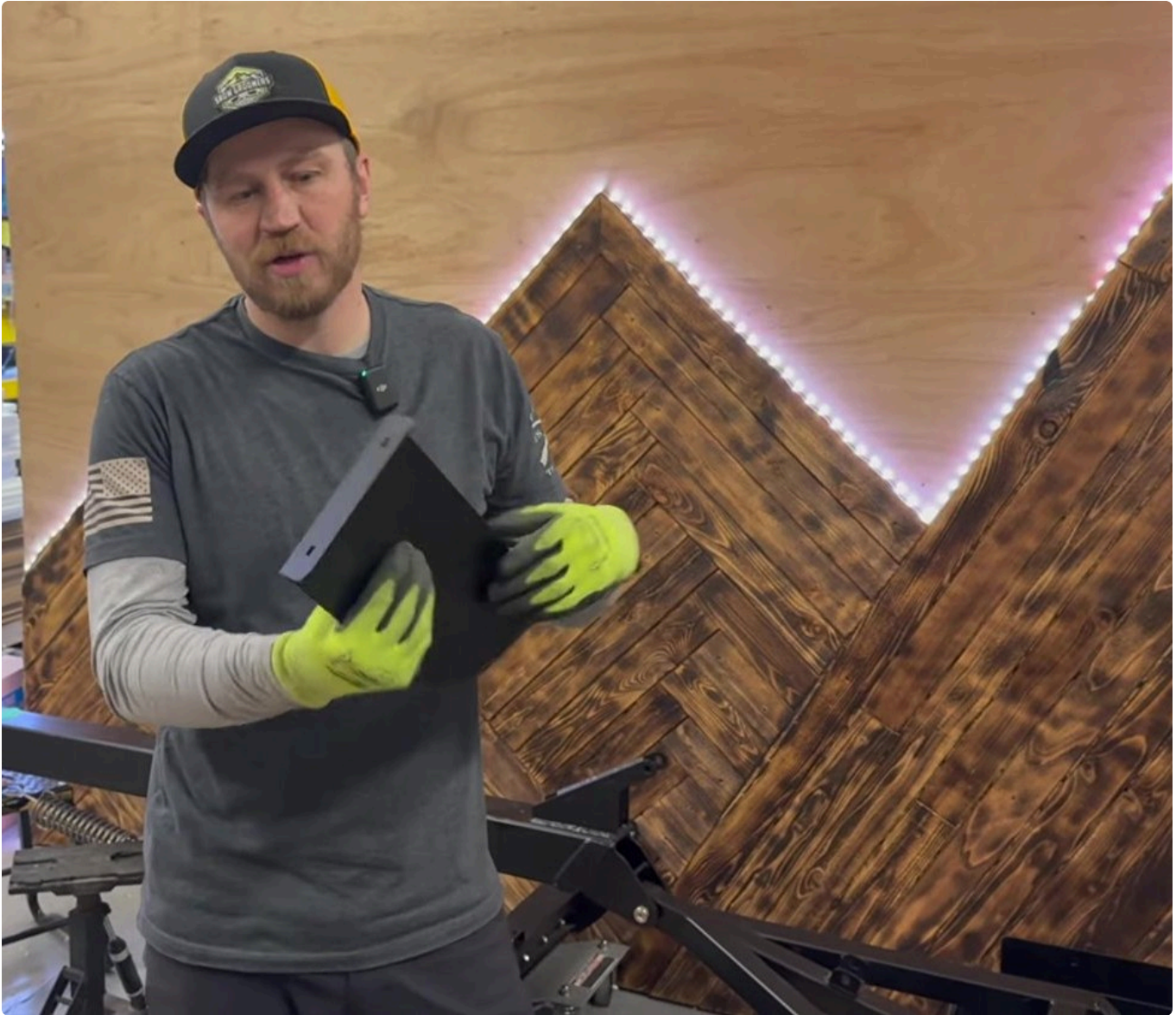
- Put the really thin washer on the outside.
- The side of the wheel hub that sticks out more goes on the inside, so it clears the bracket.
- Add the two thicker washers and keep them in place while you fit the wheel.
- Finish with the smaller washer and tighten it up.

ASSEMBLY STEP 17

17

ADD THE POWDER WINGS (OPTIONAL)

Video 15:46



- The powder wings are for deep powder. You do not have to use them.
- They mount on the outside of the groomer with two bolts each.
- You can put them on and take them off easily.

YOU'RE DONE!

Give every bolt one last check, then get out there and groom. We'd love to see what you're doing, so send us pictures of your trails.



NEED HELP?

Call 1-800-430-7120

www.snowgroomers.net

Questions about your Snow Groomer Pro? Missing hardware? Need a spare part?
We're happy to help.

Watch the assembly video: youtu.be/jr_0LdF9OXQ