



SNO-MASTER STANDARD

Assembly Instructions

48" and 72" models

www.snowgroomers.net

BEFORE YOU START

This guide follows our SNO-MASTER Standard assembly video. Watch it alongside these steps:
youtu.be/0K0EV3Yv4wc

TOOLS AND SUPPLIES

- 7/16" (11 mm), 1/2" (13 mm) and 9/16" (14 mm) wrenches.
- 7/16", 1/2" and 9/16" sockets and a ratchet.
- Phillips screwdriver, for the truss head screws and the bow/weight cover screws.
- Needle-nose pliers.
- An angle indicator with a magnetic base, for setting the chassis angle (Step 6).
- Two 4" × 4" × 12" wood blocks (or a sturdy block) to lift the chassis while you fit the runners. Clear about 8' × 8' of floor to work in.
- Work gloves.
- Your parts and packing list.

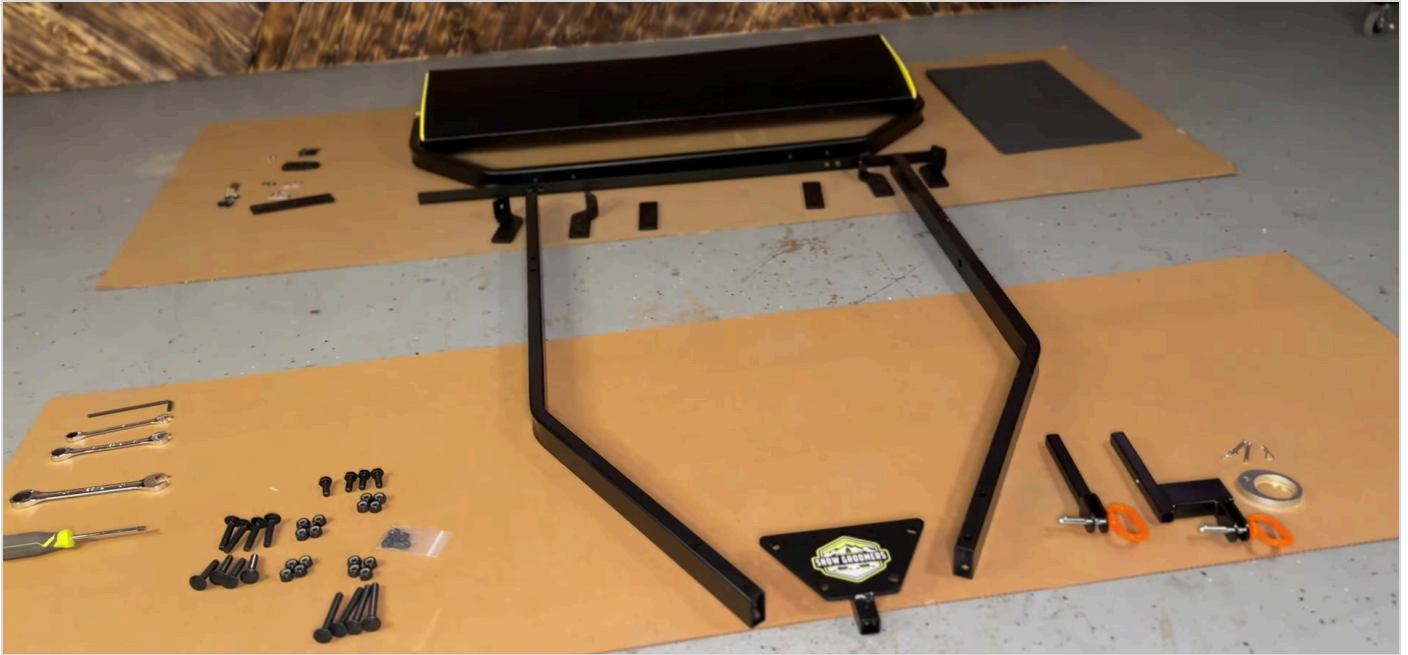
SAFETY

- **Wear gloves.** The video shows gloves on throughout.
- **Support the chassis** on a sturdy block when you work underneath it.
- **Don't over-tighten.** Hand tools are recommended. Tighten bolts slowly and evenly, and only once everything is lined up.

GOOD TO KNOW

- Lay out all the parts and pieces. Check that you have everything on the parts and packing list.
- Start every bolt and screw before you tighten any of them. Leave things loose until each step says to tighten.
- 48" and 72" models go together the same way.
- Have a SNO-RAZOR, wheel kit or rear tow bar? Build the groomer with this guide, then watch the video for each accessory. Start the SNO-RAZOR before you tighten the front tow bar mount bolts (Step 9).
- **Adding weight (SNO-MASTER 48):** use standard 2" × 8" × 16" concrete pavers (about 16.5 lb each) in the weight compartment under the bow/weight covers. Plan on 1–3 with a SNO-RAZOR, or 2–6 without (99 lb max). Use less or no weight in powder and more in hard or wet snow. Two 2" × 8" × 15" wood spacers keep the blocks from sliding.

WHAT'S IN THE BOX



All the parts laid out before assembly (video 0:25).

MAIN PARTS

- Chassis (48" or 72")
- 2 tracking runners
- Wings (left and right)
- Chassis bar
- Chassis bar mount
- 2 pan link adjusters and 2 pan link spacers
- Bow/weight covers: 2 on the 48" (left, right), 3 on the 72" (left, center, right)
- Deflector bar and deflectors
- Tow bars
- Tow bar mounts
- Deflector lowering / drop mounts
- Tow mount
- Hitch connector (standard, or 3" / 5" drop)

HARDWARE

- Runners and wings: 2 × 1/4-20 × 3/4" stainless carriage bolts, 4 × 1/4-20 × 7/8" stainless hex bolts, 6 × 1/4-20 stainless nylock nuts
- Pan links: 2 × 3/8-16 × 1-1/2" stainless hex bolts, 2 × 3/8" stainless washers, 2 × 3/8-16 stainless nylock nuts
- Screws and lock washers (chassis bar mount)
- Bow/weight cover screws (3 per cover)
- Small hitch pins
- Truss head screws (deflectors)
- Coupler shear pins (2 × 3/16" × 1-9/16") and detent pin

Check everything against your parts and packing list before you start. Missing something? Call 1-800-430-7120.

ASSEMBLY STEPS 1-2

1 INSTALL THE RUNNERS AND WINGS

Video 0:29



- The wings and runners are packed inside the chassis, along with the bow/weight cover screws and the runner bolts and nuts. Take them all out.
- Put the runners and wings on at the same time. The runner sits right against the chassis body, and the wing goes against the runner on the outside.
- Set the chassis up on a block. The runners stick down below the bottom of the chassis, and they help keep the groomer in line behind your machine.
- Put the 1/4-20 × 3/4" carriage bolt in at the front first, through the square hole in the nose of the runner.
- The other two bolts (1/4-20 × 7/8" hex) go through the wing first, then the runner, then into the chassis.
- From inside the chassis, under the bow cover, finger-tighten a 1/4-20 nylock nut on each bolt. Then tighten all three with a 7/16" socket and wrench. Repeat on the other side.

△ Keep the bow/weight cover screws. You'll use them in Step 7.

2 SET THE CHASSIS BAR ON THE CHASSIS

Video 1:43



- The chassis bar has two different sides. One side has a welded mount. The other has four holes for the chassis bar mount.
- Set the chassis bar onto the chassis welded side first.
- Doing it this way lets you attach the mount on the other side.

ASSEMBLY STEPS 3-4

3

ATTACH THE CHASSIS BAR MOUNT

Video 2:14



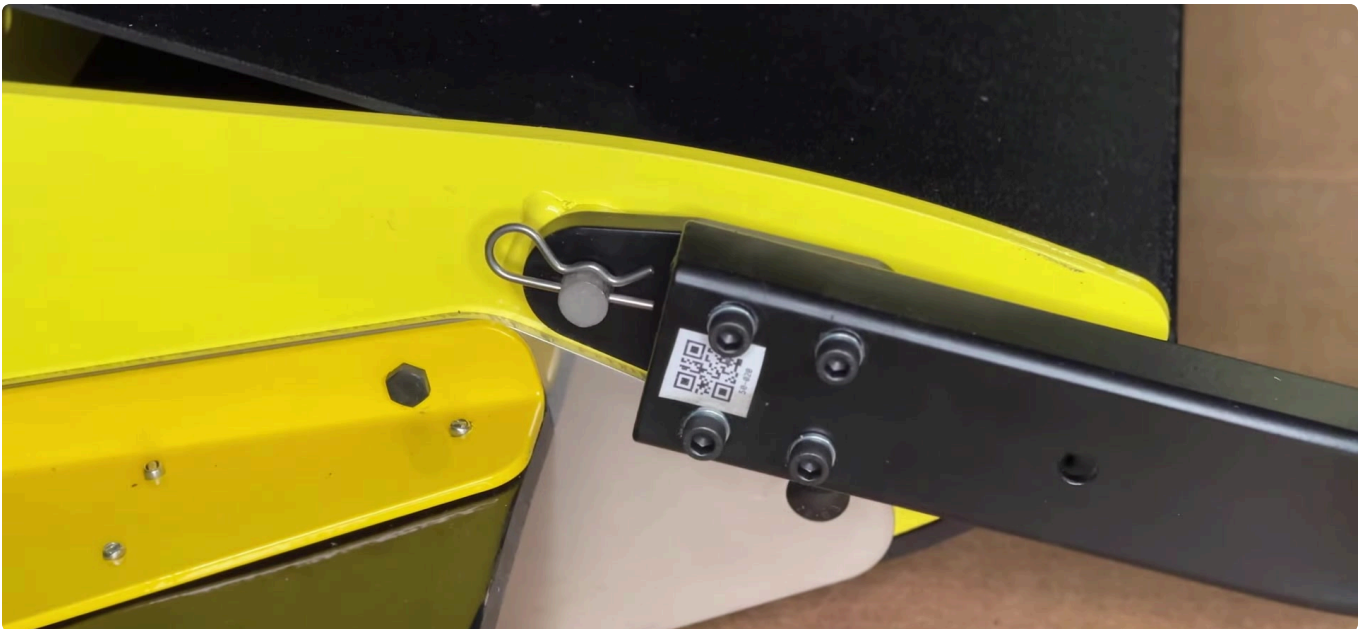
- The mount goes inside the chassis bar, between the chassis bar and the chassis.
- Slide the mount onto the chassis first, then line it up.
- Attach it to the chassis bar with the screws and lock washers.
- Tighten slowly in a crisscross pattern, like lug nuts on a car tire, until each screw is snug.

⚠ Start every screw before you tighten any of them. Do this on most steps.

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PIN THE CHASSIS BAR

Video 3:13



- Secure the chassis bar on both sides with the smaller hitch pin.
- The chassis bar should now float freely on the chassis.

ASSEMBLY STEPS 5-6

5 ATTACH THE PAN LINK ADJUSTER

Video 3:34



- The pan link adjuster has several holes. They let you set the angle of the chassis and the tow bars.
- To start, attach it loosely. Use the bottom hole, and the third hole down from the top against the chassis bar.
- At the bottom, the stack goes: 3/8-16 × 1-1/2" bolt, 3/8" washer, pan link, spacer, then the chassis. Secure it with a 3/8-16 nylock nut.
- Tighten the nut (9/16") until the pan link still turns by hand but stays in place when you lift it. It must be able to move freely.

6 CONNECT THE CHASSIS BAR TO THE PAN LINK

Video 4:52



- Attach the chassis bar to the pan link adjuster. For setup, use the third or fourth hole, somewhere in the middle. Use the same hole on both sides.
- Best position: the chassis pitched up 1 to 2° at the front, with the tow bars as level as possible when hooked to your machine.
- Final setup: hook the groomer to your machine, with the machine loaded the way you normally groom so its suspension settles. The coupler should sit about 15-19" off the ground so the tow bars run level. Higher than 19"? Lower the nose of the chassis or use a 3" or 5" drop connector.
- Set a magnetic angle indicator on the chassis side runner. Disconnect the chassis bar from the pan link, raise or lower the nose until it reads 1-2°, then reconnect it in the hole that lines up. Note the hole and use the same one on the other side.

ASSEMBLY STEPS 7-8

7

SECURE THE BOW COVERS (WEIGHT COVERS)

Video 5:09



- The bow covers are the black plastic covers over the weight compartment on the back of the chassis: 2 on the 48" (left and right), 3 on the 72" (left, center and right).
- Fasten each cover with its screws. Start the center screw, then the two outside screws, then lightly tighten all three.
- Or leave them open and easy to reach if you plan to add weight (see Good to know on page 2).
- Tip: a little anti-seize in the threaded holes keeps the screws easy to remove for years.

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ATTACH THE DEFLECTORS TO THE DEFLECTOR BAR

Video 5:24



- The deflector bar has four holes on one side. They attach it to the tow bars.
- The other side has 12 holes on the 48" or 18 holes on the 72".
- Place each deflector against the deflector bar. Drive the truss head screws through the plastic and into the bar.
- Set the finished deflector bar aside for now.

ASSEMBLY STEPS 9-10

9

ATTACH THE TOW BAR MOUNTS

Video 6:36



- Fit all the tow bar bolts loosely first. Tighten nothing yet.
- Attach the tow bar mounts to the chassis bar.
- Put the deflector lowering mounts on the bottom of the chassis bar, through the same bolt as the tow bar mounts.

⚠ Have a SNO-RAZOR? Start installing it before you tighten the front tow bar mount bolts.

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SLIDE IN THE TOW BARS

Video 6:58



- With the mounts on loosely, slide a tow bar through them.
- Repeat on the other side.

ASSEMBLY STEPS 11-12

11

ATTACH THE TOW MOUNT

Video 7:19



- Before you tighten anything on the chassis bar or tow bars, attach the tow mount to the front of the tow bars.
- Leave these bolts a little loose.
- If you have a SNO-RAZOR, watch its video for those steps.

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TIGHTEN UP AND HANG THE DEFLECTOR BAR

Video 7:37



- Work around the tow bars, slowly tightening all the bolts a little at a time.
- Before the last round of tightening, attach the deflector bar to the deflector drop mounts while they're still a little loose.
- Check that every bolt and nut on the groomer is tight.

ASSEMBLY STEP 13

13

INSTALL THE HITCH CONNECTOR

Video 8:02



- At the front, install the standard connector, or a 3" or 5" drop, or another connector.
- Install the shear pin. You can keep extra shear pins on the back of the tow bar mount.
- To go over a 2" ball or use a J-hook, pull the detent pin and slide it in at the front.

YOU'RE DONE!

Check every bolt one last time. Have a SNO-RAZOR, wheel kit or rear tow bar? Watch those videos next. Then get out there and groom!



NEED HELP?

Call 1-800-430-7120

www.snowgroomers.net

Questions about your SNO-MASTER Standard? Missing hardware? Need a spare part?
We're happy to help.

Watch the assembly video: youtu.be/0K0EV3Yv4wc