



SNO-RAZOR

Assembly Instructions

Accessory add-on for the SNO-MASTER 48" and 72"

www.snowgroomers.net

BEFORE YOU START

This guide follows our SNO-RAZOR assembly video. Watch it alongside these steps:
youtu.be/RcXOXxNuACQ

TOOLS AND SUPPLIES

- 1/2" (13 mm), 9/16" (14 mm) and 3/4" 6-point wrenches.
- 1/2" and 9/16" sockets and a ratchet.
- Phillips screwdriver.
- An angle indicator with a magnetic base, for setting the razor angle (Step 11).
- Work gloves.
- A sturdy stand to hold the tow bars up while you work.
- A helper for lifting the razor bars into place.
- Your parts list.

SAFETY

- **Wear gloves.** The video shows gloves on throughout.
- **Get a helper** when you lift the razor bars onto the tow bars (Step 7).
- **Support the tow bars** on a sturdy stand, as shown in the video.
- **Hand tools are recommended.** Snug the bolts evenly and don't over-tighten.
- **Grade 2 shear bolts only.** Never replace a shear bolt with a harder bolt. It can damage the SNO-RAZOR, the groomer or your snowmobile.

GOOD TO KNOW

- Lay out all the parts and pieces. Check that you have everything on the parts list.
- Building a new SNO-MASTER? Follow the SNO-MASTER Standard guide, and start the SNO-RAZOR before you tighten the front tow bar mount bolts.
- Leave the bolts loose until the last step, then tighten everything.
- Fits the SNO-MASTER 48" and 72".
- **Care:** treat the razor like a good knife. Clean it, give all surfaces a light coat of oil, and store it inside in the off season. A rusty razor won't cut well.

WHAT'S IN THE BOX



SNO-RAZOR parts laid out next to the SNO-MASTER (video 0:17).

MAIN PARTS

- Razor
- Razor lift mount (bottom mount)
- Razor bars (left and right)
- Razor crossbar
- Lift slide
- Lockout (if included)

HARDWARE

- Pivot pin with two O-rings (own bag)
- Razor bolts
- Carriage bolts and nuts
- Locking bolts
- Small clevis pin, bent clevis pin and hitch pins
- Shear bolts (Grade 2, zinc) with nylock nuts:
5/16-18 × 1" on the SNO-RAZOR 48, 3/8-16 × 1-1/4" on the SNO-RAZOR 72. Spares are in the hardware box.

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

ASSEMBLY STEPS 1-2

1

LOOSEN THE TOW BAR MOUNT BOLTS

Video 0:22



- Already built your SNO-MASTER? Loosen the four tow bar mount bolts so the razor mount can attach to the bottom.
- You may also need to loosen the tow bar mount bolts at the back of the tow bars, next to the chassis bar.
- This lets the razor mount settle inside the tow bars.

2

ATTACH THE RAZOR LIFT MOUNT

Video 0:50



- Once the bolts are loose, attach the razor lift mount inside the tow bars.
- Leave the nuts loose for now.

⚠ Don't over-tighten any nuts yet.

ASSEMBLY STEPS 3-4

3

GET THE RAZOR BARS READY

Video 1:04



- The razor bars are left- and right-specific. Resting them lightly on the razor can help you get them facing the right way.
- Take out the razor bolt that sits inside the razor bar.
- Check that the O-rings are in place, both inside the razor bars and inside the bottom mount.

4

INSTALL THE PIVOT PIN

Video 1:41



- The pivot pin and its O-rings come in their own bag.
- Put one O-ring on one end of the pivot pin.
- Slide the pin through all three pieces: one razor bar, the razor mount, then the other razor bar.
- Once it's all the way through, lock it in place with the second O-ring.

ASSEMBLY STEPS 5-6

5

ATTACH THE RAZOR CROSSBAR

Video 2:25



- Attach the razor crossbar to the razor bars.
- If you have a lockout, attach it to the top of one of the razor bars.
- Don't over-tighten any of the bolts yet.

6

ATTACH THE LIFT SLIDE

Video 2:42



- Attach the lift slide directly to the razor crossbar.
- Use the small clevis pin and a hitch pin.

ASSEMBLY STEPS 7-8

7

LIFT THE RAZOR BARS ONTO THE TOW BARS

Video 2:57



- Lift the razor bar assembly up into place on the tow bars.
- Let the bolt slide down into the bottom plate.

⚠ This can be the trickiest part of the whole job. A helper makes it much easier.

8

FIT THE REAR BOLTS

Video 3:37



- Trick for the rear bolts: lift the carriage bolt up and out, so you can get the nut underneath, next to the razor pivot pin.
- Spin the nut onto the bolt first, before the carriage bolt is seated.
- Then slide your wrench down to tighten it, and secure it completely.

ASSEMBLY STEPS 9-10

9

FIT THE RAZOR AND ADD THE LOCKING BOLTS

Video 4:14



- Before you lift and tighten everything, slide the razor into place to make sure it still fits.
- Add the locking bolts.

10

SECURE THE LIFT SLIDE

Video 4:29



- Move the lift slide into place.
- Secure it with the bent clevis pin and a hitch pin.

ASSEMBLY STEP 11

11

SET THE ANGLE, ADD SHEAR PINS, TIGHTEN

Video 4:41



- Decide which angle you want for the razor. Check it with a magnetic angle indicator.
- Starting angle: about 18–20° for soft or fresh snow. Go steeper for denser snow: about 20–25° for average conditions and 25–30° for hard pack or ice. 30° is the maximum.
- Install the shear pins (Grade 2 shear bolts) through the razor bar and the razor.
- Tighten all of the bolts.
- Set the height before you groom: start with the cutting edge about 1" above the ungroomed snow, allowing for your suspension travel. Groom a short distance and adjust. Don't lower it more than 1/2" at a time.
- The goal is a cutting edge level with the finished groomed surface. If the wings aren't touching the snow at the outer edge of the groomed path, the razor is too low or the chassis needs more weight.

⚠ Recheck the razor angle any time you shear a bolt. Replace it with a Grade 2 shear bolt only.

YOU'RE DONE!

Check every bolt one last time, then set your razor height and angle. Then get out there and groom!



NEED HELP?

Call 1-800-430-7120

www.snowgroomers.net

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

Watch the assembly video: youtu.be/RcXOXxNuACQ