

How to Repair your Nailer

Nailers typically have the following problems:

- Air leak through the top head exhaust port
- Nothing happens when you pull the trigger
- Air leak through the trigger
- Driver will not retract back into nailer
- Nailer is sluggish and has little power
- Fasteners will not countersink

Air leak through the top head exhaust port

- This occurs usually due to a head valve leak. Either the o-rings around the head valve or the seal located on the top of the cylinder (the part the driver slides up and down in) are worn.
- Solution: Order an o-ring kit or a Rebuild kit for your model.

Nothing happens when you pull the trigger while the nailer is depressed against the work material (no noise or movement)

- Remove the cap (top where the air exhausts after each shot) off the head of the nailer. After removing all nails from the magazine, take a wooden dowel or end of a hammer and push the driver down to the bottom of the nailer. Does it move? If it does not, you have either:
- A stuck nail or staple which has jammed against the driver. Solution: Take an object similar in shape to the driver and try to drive the driver back up by inserting this into the end where the nails are shot from and then clearing the jam.
- A broken driver. Look to see if the piston top of the driver is aligned in the cylinder or is it cocked to one side. Solution: Remove and replace broken driver assby.
- Your trigger valve is defective. Solution: Remove and replace trigger valve (if sold separately)

Air leak through the trigger

- Trigger valve is defective. Solution: Remove and replace.

Driver will not retract back into nailer

- Exhaust valve (a rubber shaped band or o-ring around the cylinder (the tube the driver moves up and down in) is missing or damaged. Solution: Order o-ring kit.

- Trigger valve is not cycling properly. Solution: Remove and replace trigger valve.

Nailer is sluggish and has little power

- Air pressure is set too low. Most nailers need to run at 105 psi, (except roofing nailers in the summer) Solution: Turn up air pressure.
- Gasoline has been used to clean nailer. O-rings are gummed up. Solution: Install new o-ring kit.
- O-rings have not been lubed by daily application of nailer lubricant. Solution: Install new o-ring kit and use lubricant (nailer oil) daily. (Make sure that your nailer is not an oil free nailer first!)
- O-rings are simply worn and air is blowing by your o-rings. This is not something you can visibly see. Solution: Install new o-ring kit.

Fasteners will not countersink

- Driver tip is broken. Remove all fasteners from nailer. Remove the cap (top where the air exhausts after each shot) off the head of the nailer. After removing all nails from the magazine, take a wooden dowel or end of a hammer and push the driver down to the bottom of the nailer. Does the driver extend out past the end of the nailer? If it does not, Solution: Order new Driver
- If the driver extends beyond the tip of the nailer, then turn up your air pressure up to but not exceeding 125 psi to driver the fastener deeper.
- Are you using ring shanked or spiral shanked nails? They require more air pressure to drive.
- Are you using ring shanked or spiral shanked nails and driving into salt treated or very hard material? You need a very powerful nailer and a lot of air pressure.
- If the first few shots will countersink, but then the rest will not, your compressor needs to be adjusted so that it will turn on at 105 psi and turn off at no lower than 135 psi. (most air compressors cut on at 95 psi and cut off at 125 psi which is not sufficient for high use, rapid firing nailers) Solution: Call a service center and ask if your unit can be adjusted for more psi.

Hitachi Trigger Repair Instructions

Reference this page: <http://www.mastertoolrepair.com/hitachi-nv45ab2-roofer-parts-p-485.html>

Most Hitachi nailers use the same trigger mechanisms in each nailer, the only difference will be the reference number below. Use the page above simply as a guide for the particular nailer that you have.

1. Use a small nail or punch and push pin 47 out of nailer.
2. Remove lever 58.
3. Item 57 should fall out.
4. Remove dust shield item 60.

5. Take a wide blade screwdriver or flat steel to remove guide 56.
6. Remove bushing 51 being careful not to loose spring which is attached to 50.
7. Remove ball 54 and use a probe or nail to remove packing 53.
8. Install new packing 53 and press down into body of nailer.
9. Install new o-rings 52 on item 51.
10. Install new small o-ring 49 on plunger 50 and plunger 57.
11. Install spring on top of 50 and knsert in end of 51.
12. Slide 51 back into body of nailer being careful not to tear o-rings, 52.
13. Install new ball 54.
14. Reinstall item 59 plunger into 51.
15. Reinstall guide 56 through keeper 55 with new o-ring 52.
16. Screw guide 56 back into body of nailer with wide blade screwdriver or flat steel.
17. Make sure keeper tab 55 also holds bushing 51 even with the edge of the body of the nailer.
18. Reinstall plunger item 57.
19. Reinstall dust shield item 60 and make sure that lip is over item 51 and 59.
20. Slide lever item 58 into body of nailer and line up holes for pin.
21. Carefully tap pin item 47 back through the body of the nailer making sure to line up lever 58 with pin.