

NM-11

INSTRUCTION MANUAL



NM-11 Riveting Machine

***Congratulations on your purchase of a NM-11 Riveting Machine.
We sincerely thank you for selecting a product from SSM Produkt AB.***

To obtain an additional copy of this manual, please contact SSM at:



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LIMITED WARRANTY

Scope of warranty

This warranty covers any defects in materials and workmanship under normal use.

Period of coverage

This warranty runs for two (2) years from the date of purchase. Please save your receipt or invoice.

Limitations

Failures due to abuse, misuse or an event or effect that cannot be reasonably anticipated or controlled (such as flood, earthquake, act of God etc.) are not covered by this warranty. Surface coating problems caused by excessive humidity, in-use scratches or abrasions, and direct exposure to the elements are also not covered.

Repair or replacement is the only option available under this warranty. SSM Produkt AB (SSM) is not responsible for damages of any kind, including incidental and consequential damages.

Incidental damages include but are not limited to such damages as loss of time and loss of use. Consequential damages include but are not limited to the cost of repairing or replacing property that was damaged if the product from SSM does not work properly.

Correction of details

If your product cannot be repaired, we will replace your product free of charge.

How to get service

Please return the defective product together with the purchase receipt or the invoice. You can obtain service by contacting a dealer of SSM products or SSM directly. At our discretion, the dealer or SSM will either repair or replace your product.

How country and state laws relates to the warranty

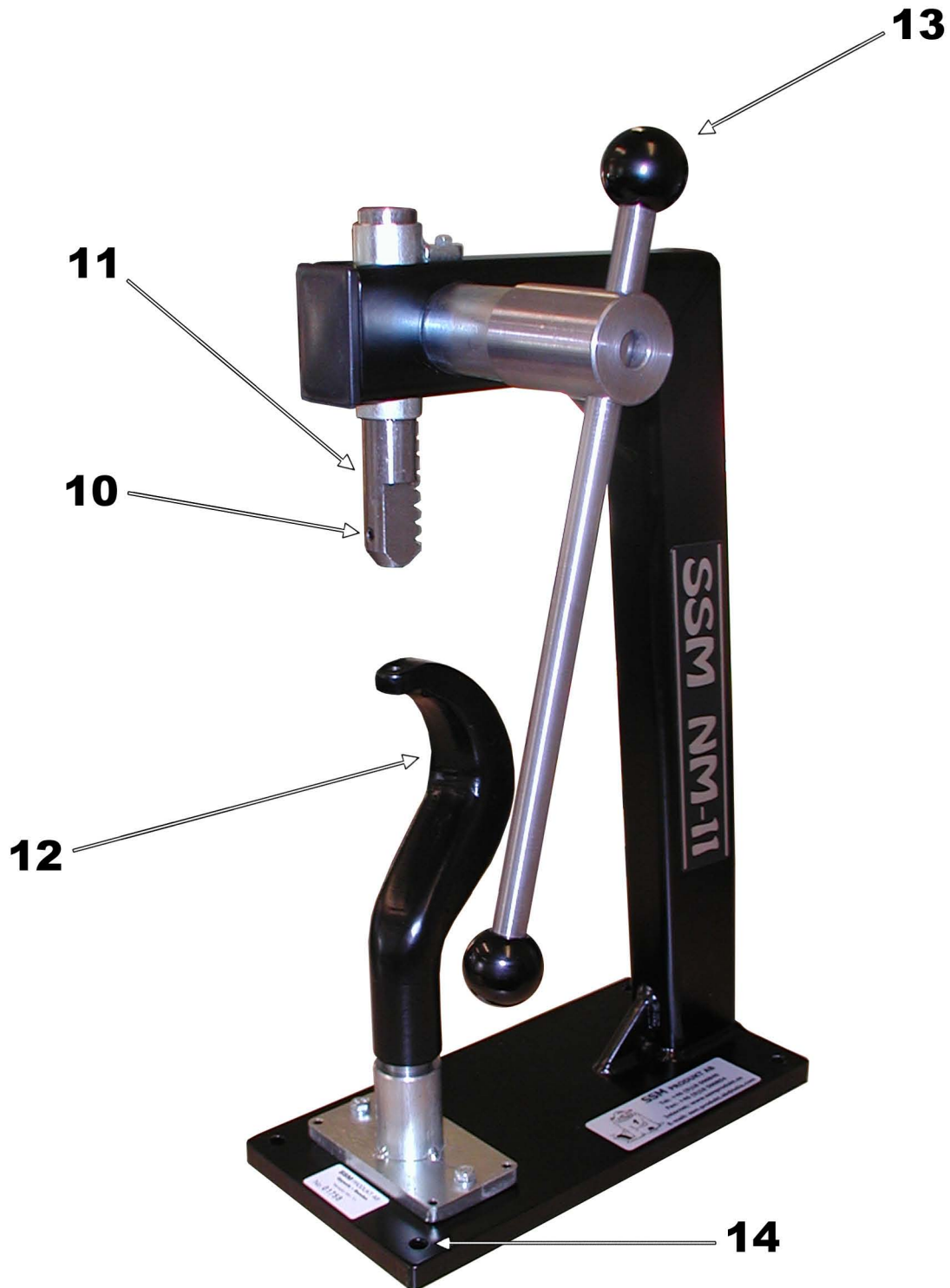
This warranty gives you specific legal rights. You may also have other rights that vary from country to country and from state to state.



**SSM PRODUKT AB RESERVES THE RIGHT TO MAKE IMPROVEMENTS
AND MODIFICATIONS TO DESIGN WITHOUT PRIOR NOTICE.**

**SSM PRODUKT AB
VAKSALA-EKE, SE-75594 UPPSALA, SWEDEN**

FUNCTIONAL DESCRIPTION



- 10. Allen Screw**
- 11. Tool Holder**
- 12. Hook**
- 13. Handle**
- 14. Holes for fastening (4 pcs.)**

ASSEMBLY

Your Riveting Machine NM-11 is delivered complete and protected inside its delivery box. Remove all contents from the box and inspect to ensure no damage was incurred during shipping. Your NM-11/21 package should include the following:

DESCRIPTION	PART	#QTY
Instruction Manual	NM-11 Manual.en	1
Riveting Machine	NM-11	1
Hook	V 12	1
Tool Set N-21+N-E	N-21, N-E	1+1

Getting started:

Place the machine on a stable, level surface.

You can fasten the machine with four screws through the holes (14) in the bottom plate.

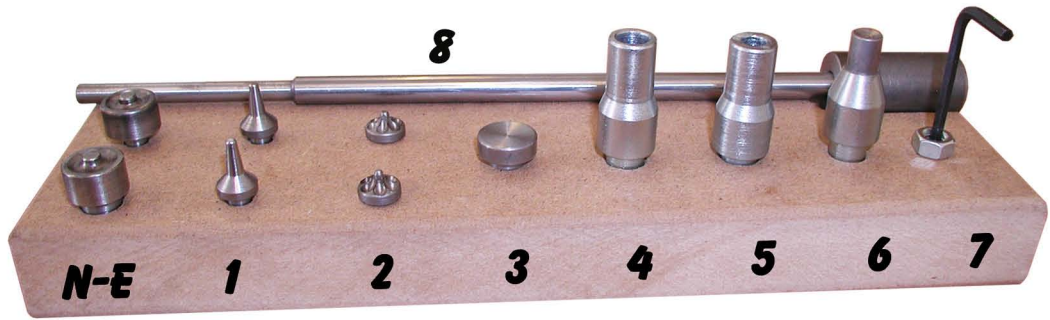
TECHNICAL SPECIFICATIONS AND DIMENSIONS

HEIGHT:	495 mm
WIDTH:	215 mm
LENGTH:	300 mm
WEIGHT (with hook):	14.5 kg
DISTANCE (between lower and upper tool holder):	120 mm (130 mm with the ski hook)
FORCE:	23 * force from the hand
TUBE RIVET:	Use type SN from SSM.
COPPER RIVET + WASHER:	Use type KN from SSM.
EYELET:	Use type EL from SSM.
HOOKS FOR SHOELACE:	Use type FE from SSM.
LARGER RIVET, JOINT RIVET:	Contact the manufacturer of the ski boot.

Your SSM Produkt AB distributor:

OPERATION

N-21
(+ N-E)



REMOVING TUBE RIVETS

Screw tool no. 1 into the fastening hole in the hook 12 (use the nut that is included). Loosen the Allen screw in the tool holder 11 and fasten tool no. 4 (Ø8). Position the skate above the hook 12 so that you can feel tool no. 1 in the rivet. (Note that in narrow positions the rivet may be mounted obliquely.) Lower the tool holder 11 so that the tool 4 fits around the head of the rivet. Press down and the rivet should come loose. It will not come completely free; remove it with a pair of tongs.



REMOVING COPPER RIVETS

Copper rivets should be filed down to the copper washer. After that you can knock it out with a centre punch. If possible, cut the copper rivet off with a pair of cutting nippers. **It must not be ground away (the heat that arises can melt the plastic).**



OPERATION

MOUNTING A NEW SKATE BLADE

MARK WHERE THE NEW SKATE BLADE SHOULD BE

The plastic part that holds the old skate blade has lines on the short sides from the casting. Mark on the skate shoe where these lines are located. This will aid you when mounting the new skate blade.

CHECKING THAT THE SKATE BLADE IS STRAIGHT

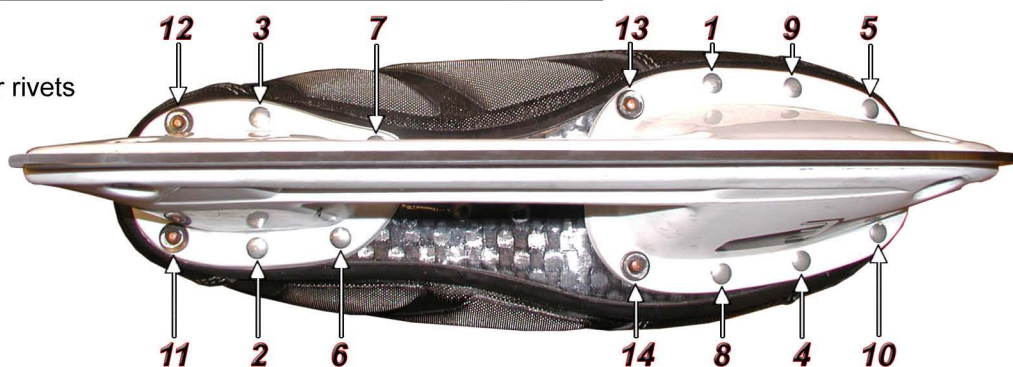
When replacing a blade you should check that the blade is straight. You should preferably attach e.g. one rivet in a left forward place (1) and another in a right backward place (2) and then check the straightness by putting e.g. a steel ruler in contact with the blade. If necessary, correct by hitting suitably hard on the steel of the blade from the side using a plastic club.

When changing a skate blade, follow our recommended order of mounting rivets:

01-10 = Tube rivets

11-12 = Copper rivets

13-14 = Tube rivets or Copper rivets



(Most of the strain is on points 11-14. 11-12 should always be copper rivets. If the skater is powerful, then use copper rivets on 13-14 as well.)

MOUNTING A TUBE RIVET

(If the skate blade is to be exchanged, first test if the old holes will fit. If not, drill new holes fitting the blade.)

Screw tool no. 2 into the fastening hole in the hook 12 (use the nut that is included).

Loosen the Allen screw in the tool holder 11 and fasten tool no. 6.



Put in the tube rivet with its head outside the skate. The rivet should then protrude about 5 mm on the inside.

Position the skate above the hook 12 so that you can feel the tip of tool no. 2 against the hole of the rivet.

Lower the tool holder 11 so that tool no. 6 reaches the rivet head.

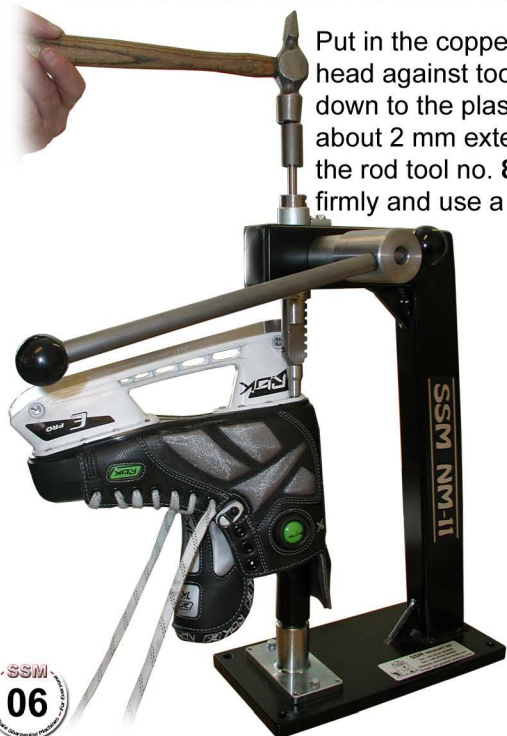
(Move the skate sideways and up and down. The rivet should be held in place by the tools.)

Press firmly and the riveting is done.

MOUNTING A COPPER RIVET

Loosen the Allen screw in the tool holder 11 and fasten tool no. 5 (Ø6). Put tool no. 3 onto the hook 12.

Put in the copper rivet with its head inside the shoe. Position the skate on the hook with the rivet head against tool no. 3. Place the copper washer onto the copper rivet and press it all the way down to the plastic with tool no. 5. Then shorten the rivet with cutting nippers (there should be about 2 mm extending from the washer). Again put the skate back into the machine and place the rod tool no. 8 through the holes in tool holder 11 and tool no. 5. Press down the washer firmly and use a hammer to hit the rod so that the rivet will get thicker than the hole in the washer.



OPERATION

REMOVING AN EYELET

Put tool no. **20** onto the hook **12**.

Loosen the Allen screw in the tool holder **11** and fasten tool no. **21**.

Position the skate above the hook **12** in such a way that tool no. **20** protrudes through the outer part of the eyelet.

Lower the tool holder **11** so that the tool **21** fits around the outer part of the eyelet.

Press down and the eyelet should come loose.

It will not come completely free; remove it with a pair of tongs.

MOUNTING AN EYELET

Put tool no. **22** onto the hook **12**.

Loosen the Allen screw in the tool holder **11** and fasten tool no. **23**.

Put the two eyelet parts in the skate with the light part from the inside and the dark part from the outside.

Position the skate above the hook **12** such that you feel that tool no. **22** fits the inner part of the eyelet.

Similarly lower the tool holder **11** so that tool no. **23** fits the outer part of the eyelet.

Press firmly and the riveting is done.



Inner part of eyelet



Outer part of eyelet



V 20

V 21



V 22

V 23



NOTE! N-RE is extra equipment and not part of NM-11/21!

OPERATION



STRETCHING OF SHOES AND BOOTS

*Shoes containing liquid or air can be destroyed if they are exposed to heat or pressure!
Check with the manufacturer of the shoe if the shoe contains liquid or air.*

Place the lock ring **55** around the tool holder **11** and fasten it lightly.
Put the tool **54** in the tool holder **11** and fasten it with the Allen screw.

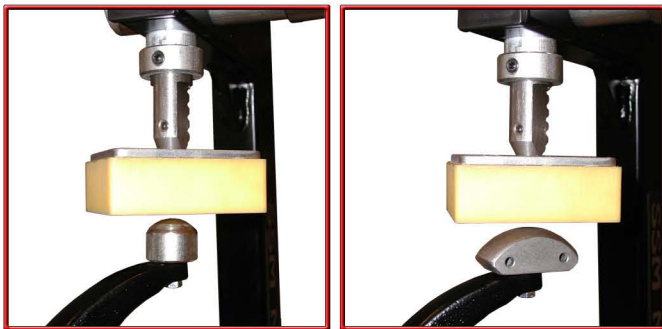
Put tool **52** or **53** onto the hook **12**.

- For a small area of the stretching, use tool **52** against tool **54**.
- For a oval area of the stretching (e.g. heel tendon), use tool **53** against tool **54**.

Heat the area to be stretched with a hot-air pistol.
Place the area to be stretched over tool **52** or **53**.

Press tool **54** against the area to be stretched.

Release the lock ring **55**, move it upwards on the tool holder **11** and lock it in the top position.
The stretching is complete when the stretched area has cooled down.



OPERATION

MOUNTING OF SHOE LACE HOOKS ON FIGURE SKATES

Put tool no. **2** (from N-21) onto the hook **12**.

Loosen the Allen screw of the tool holder **11** and fasten tool no. **24**.

Put the outer part of the lace hook in tool no. **24**. Then place it in the hole on the figure skate.

Position the skate above the hook **12** so that you can feel the tip of tool no. **2** against the hole in the lace hook.

(Move the skate sideways and up and down. The lace hook should be held in place by the tools.)

Lower tool holder **11** and press firmly so that the outer part of the lace hook locks onto the skate.

The outer part of the lace hook should still be positioned in tool no. **24**.

Remove tool no. **2** and put tool no. **3** (from N-21) onto the hook **12**.

Put the inner part of the lace hook in tool no. **3** and aim it into the hole on the cracked outer part.

Lower tool holder **11** and press firmly so that the inner part locks onto the outer part.



Inner part of shoe lace hook



Outer part of shoe lace hook



V 24



SKI HOOK FOR SKI BOOTS

Ski boots (not all) have regular tube rivets that keeps the belt buckles in place.

Some also has large joint rivets on the sides.

REMOVAL OF TUBE RIVETS FOR THE BELT BUCKLES

Do it in the same way as it is done on a skate but use **ski hook 30** instead of hook **12**. (See page 5.)

MOUNTING OF TUBE RIVETS FOR THE BELT BUCKLES

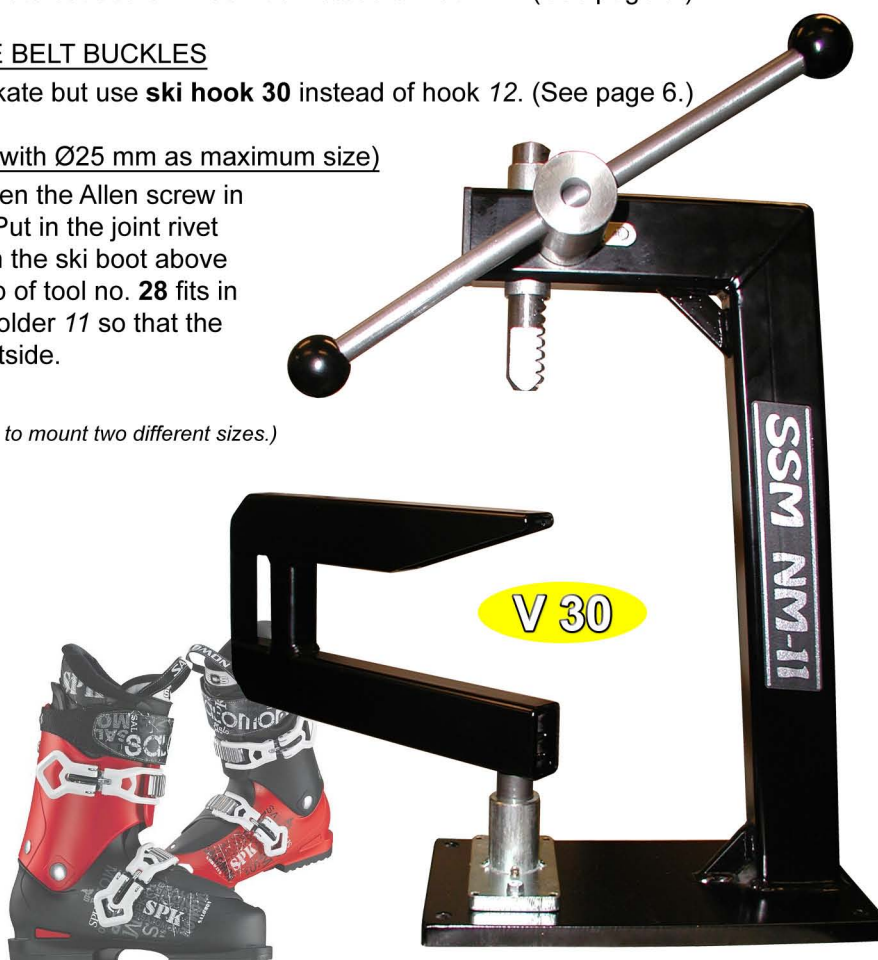
Do it in the same way as it is done on a skate but use **ski hook 30** instead of hook **12**. (See page 6.)

MOUNTING OF LARGE JOINT RIVETS (with Ø25 mm as maximum size)

Put tool no. **28** onto the ski hook **30**. Loosen the Allen screw in the tool holder **11** and fasten tool no. **29**. Put in the joint rivet with its head outside the ski boot. Position the ski boot above the ski hook **30** so that you can feel the tip of tool no. **28** fits in the hole of the joint rivet. Lower the tool holder **11** so that the tool no. **29** fits the the joint rivet on the outside. Press firmly and the riveting is done.

(Tools no. **28** and **29** have guides making it possible to mount two different sizes.)

V 28 V 29



V 30

NOTE! V 24, V 28, V 29 and V 30 are extra equipment and not part of NM-11/21!

ACCESSORIES

TOOL SETS

There is two different tool sets for the NM-11.

N-21 contains tools to change skate blades (to remove tube rivets and mount copper rivets and tube rivets).

N-41 contains tools to stretch out skates and shoes.

N-21



N-41



ADDITIONAL TOOLS

N-RE



V 20 and V 21
For removing eyelets

N-E



V 22 and V 23
For assembling eyelets

V 24



V 24
For assembling figure skating hooks

RIVETS, EYELETS, SHOE LACE HOOKS FOR FIGURE SKATES

SN



Tube rivets
Length (mm):
10, 12, 14, 16,
18, 20, 22, 24.

KN



Copper rivets + washers
Length (mm):
26 and 32.

EL



Eyelets
Color:
Black

FE



Shoe lace hooks
Color:
White

SPECIAL TOOLS

V 30



This tool holder can be used for tube rivets on the belt buckles of ski boots. It can also be used with tool 28 and tool 29 for larger rivets (joint rivets with a size up to Ø 25 mm).

V 28

V 29

