

NM-11

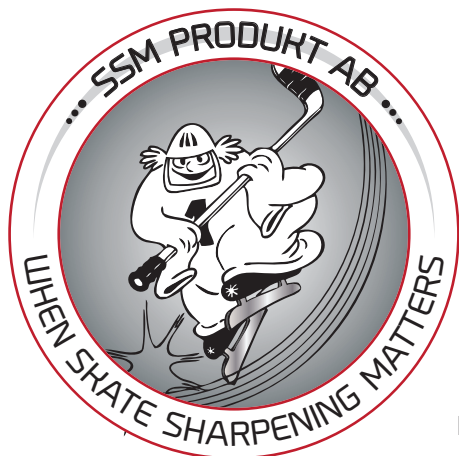
INSTRUCTION MANUAL



WARNING!! TO REDUCE THE RISK OF INJURY, USER MUST READ AND UNDERSTAND THIS INSTRUCTION MANUAL.



ORIGINAL INSTRUCTIONS



Date of purchase:

Skate riveter NM-11

Congratulations on your purchase of a NM-11 skate 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:



SSM PRODUKT AB

Vaksala-Eke
SE-755 94 Uppsala, Sweden

Tel: +46 (0)18 500840
ssm.produkt.ab@telia.com
www.ssmprodukt.com

TABLE OF CONTENTS

Limited warranty	-----	: 2
Functional description	-----	: 3
Assembly	-----	: 4
Technical specifications and dimensions	-----	: 4
Operation	-----	: 5-10
Accessories	-----	: 11

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.

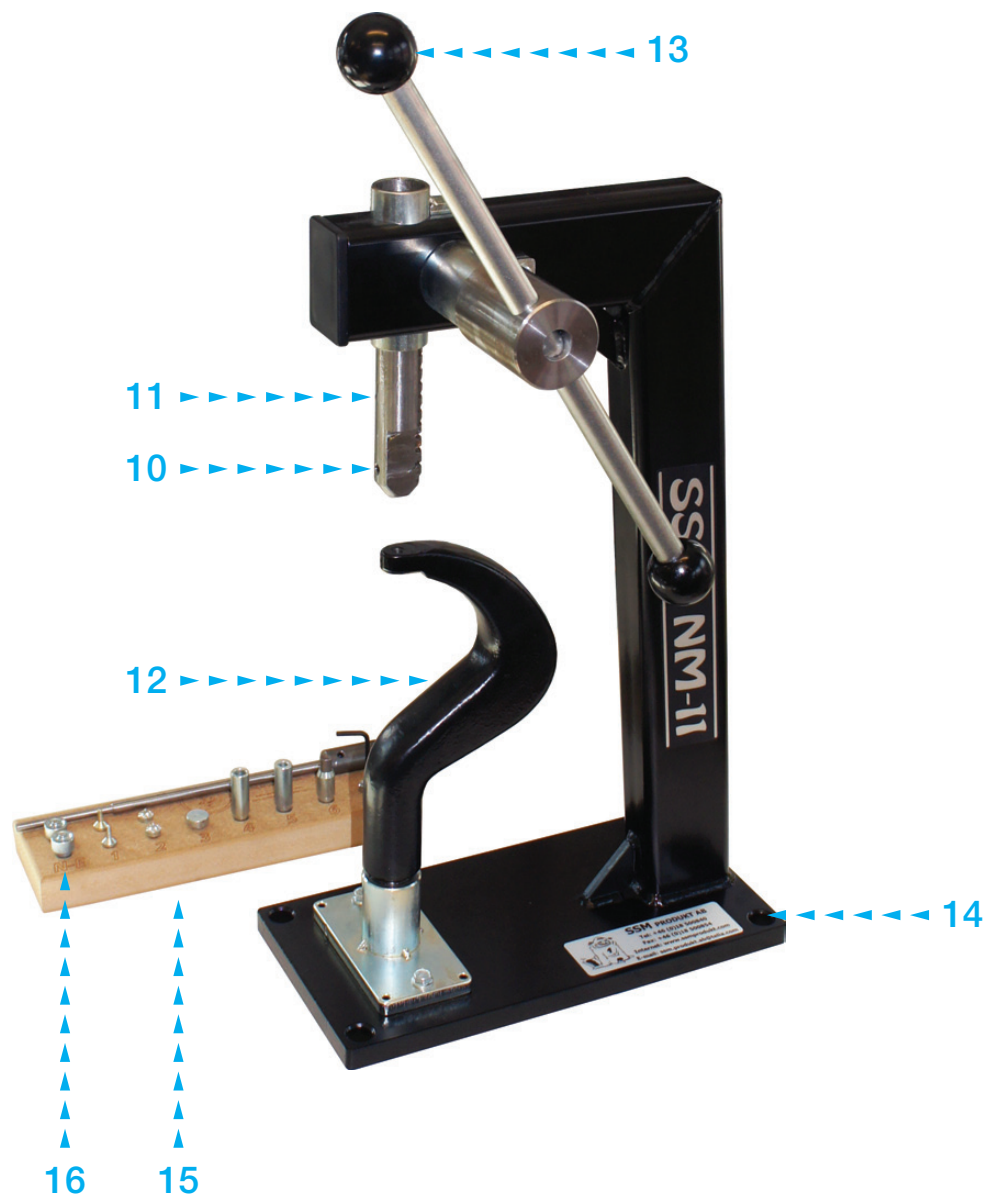
- How country and state laws relates to the warranty -

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.**

FUNCTIONAL DESCRIPTION



- 10. Allen screw
- 11. Tool holder (upper)
- 12. Tool holder (hook)
- 13. Handle
- 14. Holes for fastening (4 pcs.)
- 15. Tool set N-21
- 16. Tool set N-E

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/N-21+N-E package should also include the following:

DESCRIPTION	PART	#QTY
Instruction manual	NM-11 manual.en	1
Riveting machine	NM-11	1
Tool holder (hook)	V 12	1
Tool set N-21	N-21	1
Tool set N-E	N-E	(on the N-21)

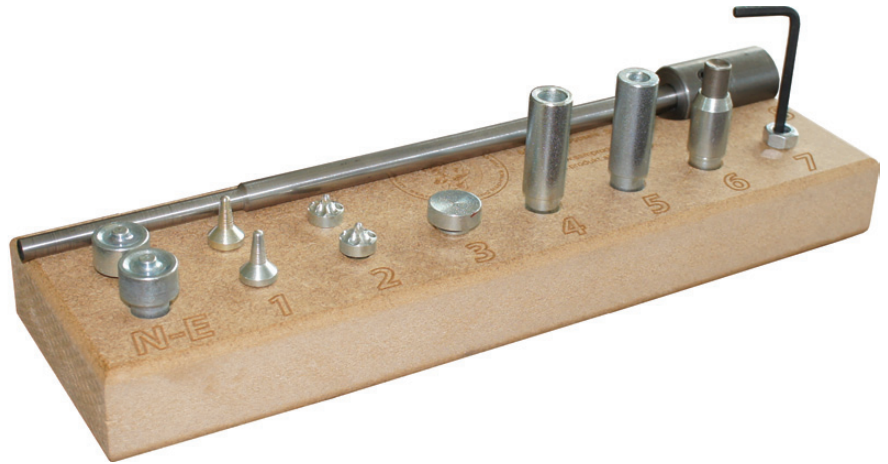
TECHNICAL SPECIFICATIONS AND DIMENSIONS

Height:	495 mm	
Width:	215 mm	
Length:	300 mm	
Weight:	14.5 kg	(with the hook)
Distance:	120 mm	(between upper and lower tool holder)
Force:	23 x force from the hand	
Tube rivets:	Type SN or SNL from SSM	(1000 pcs. or 100 pcs.)
Copper rivets:	Type KN from SSM	(100 pcs.)
Eyelets:	Type EL from SSM	(100 pcs.)
Shoe lace hooks:	Type FH from SSM	(100 pcs.)

Your SSM PRODUKT AB distributor:

OPERATION

USING THE N-21 TOOL SET



Remove tube rivets

Put tool number 1 into the hole of the hook 12 and fasten it using the nut that is included. Loosen the Allen screw in the tool holder 11 and fasten tool number 4 (hole is Ø8 mm).

Position the skate above the hook 12 so that you can feel tool number 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.



Remove 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 (continued)

Attaching a new skate blade, mark the location of the old one

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.

Check that the skate blade is straight

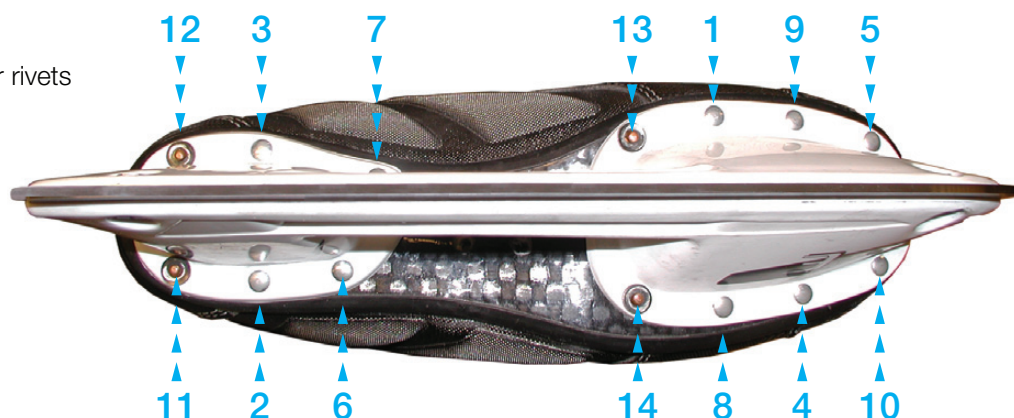
When replacing a blade you should check that the blade is straight. You should preferably attach e.g. one rivet in a left forward place (1) and another in a right backward place (2) and then check the straightness by putting e.g. a steel ruler in contact with the blade. If necessary, correct by hitting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

Attach tube rivets

(If the skate blade is to be exchanged, first test if the old holes will fit. If not, drill new holes fitting the blade.) Put tool number 2 into the hole of the hook 12 and fasten it with the nut that is included. Loosen the Allen screw in the tool holder 11 and fasten tool number 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 number 2 against the hole of the rivet. Lower the tool holder 11 so that tool number 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.



Attach copper rivets

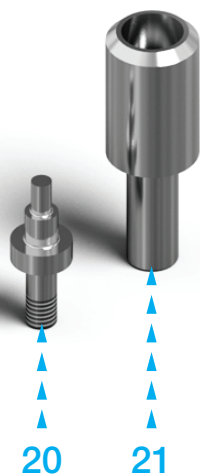
Loosen the Allen screw in the tool holder 11 and fasten tool number 5 (hole is Ø6 mm). Put tool number 3 into the hook 12.

Put in the copper rivet with its head inside the shoe. Position the skate on the hook with the rivet head against tool number 3. Place the copper washer onto the copper rivet and press it all the way down to the plastic with tool number 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 number 8 through the holes in tool holder 11 and tool number 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 (continued)

Tool set N-RE



Tool set N-E



Eyelets



Remove eyelets

Put tool number 20 into the hole of hook 12.
Loosen the Allen screw in the tool holder 11 and fasten tool number 21.
Position the skate above the hook 12 in such a way that tool number 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.

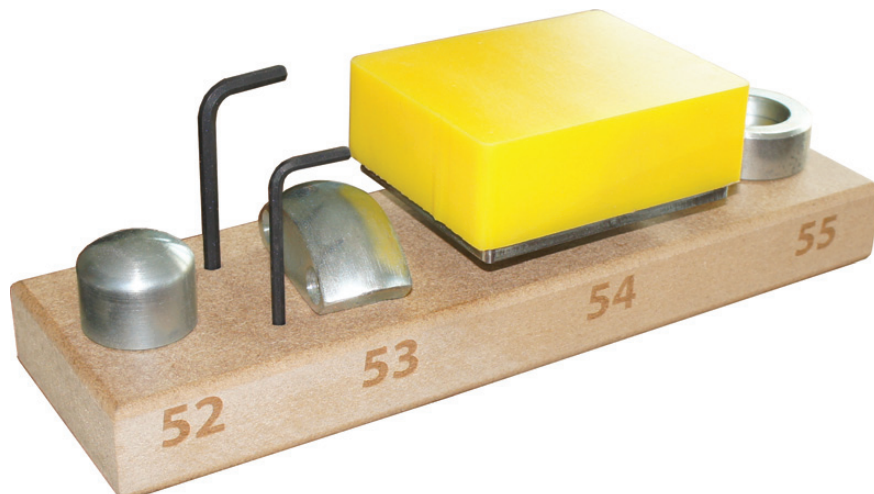
Attach eyelets

Put tool number 22 into the hole of hook 12.
Loosen the Allen screw in the tool holder 11 and fasten tool number 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 number 22 fits the inner part of the eyelet.
Similarly lower the tool holder 11 so that tool number 23 fits the outer part of the eyelet.
Press firmly and the riveting is done.



OPERATION (continued)

USING THE N-41 TOOL SET



Stretch skates, skate boots or shoes

*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.

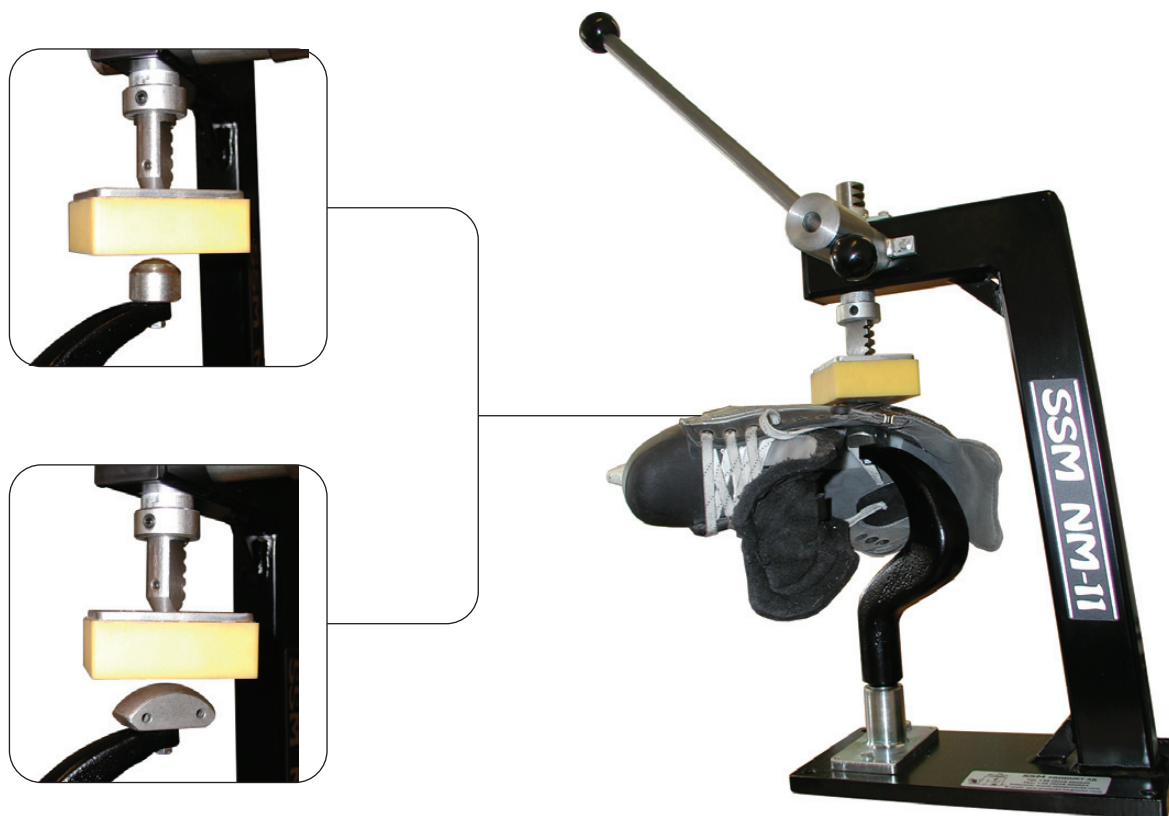
Put tool 52 or 53 into the hole of hook 12.

- 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 (continued)

Tool 24



Shoe lace hooks



Mount shoe lace hooks on figure skates (or boots)

Put tool number 2 (from N-21) into the hole of hook 12.

Loosen the Allen screw of the tool holder 11 and fasten tool number 24.

Put the outer part of the lace hook in tool number 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 number 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 number 24.

Remove tool number 2 and put tool number 3 (from N-21) into the hole of hook 12.

Put the inner part of the lace hook in tool number 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.

USE THE NM-11 ON 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.

Remove 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.)

Attach 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.)

Attach large joint rivets

Put tool number 28 into the hole of ski hook 30. Loosen the Allen screw in the tool holder 11 and fasten tool number 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 number 28 fits in the hole of the joint rivet. Lower the tool holder 11 so that the tool number 29 fits the the joint rivet on the outside. Press firmly and the riveting is done.

Tools number 28 and 29 have guides making it possible to mount two different sizes. Ø25 mm is the maximum size.



OPERATION (continued)

USE THE NM-11 ON ORTHOSES

The NM-11 can be used for attaching straps on orthoses, THKAFO's and similar.

We have made special tools for this purpose. They are specially made for the rivets used (see picture below) so that the result will look nice.

We also have the original tools for stretching shoes and so on, attaching/removing eyelets and attaching shoe lace hooks. They can be used in this line of business too. Also available is another version of the lower support (lower hook) that makes it easier to reach some parts on the orthosis and THKAFO's.

Attach special rivets

Put ORT201 into the hole of the hook.

Loosen the Allen screw in the tool holder 11 and fasten ORT301.

Put the two rivet parts in the orthosis with the inner part from the inside and the outer part from the outside.

Position the orthosis above the hook such that you feel that ORT201 fits into the inner rivet.

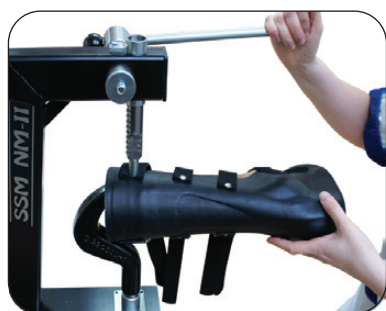
Similarly lower the tool holder 11 so that ORT301 fits the outer rivet.

Press firmly and the riveting is done.

Tools ORT201 and ORT301



Tool holder ORT100



ACCESSORIES

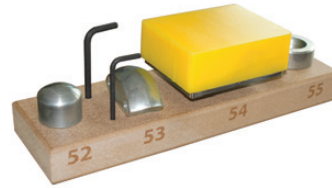
TOOL SETS

N-21 (N-E not included)



Remove tube rivets
Attach tube rivets
Attach copper rivets

N-41



Stretch skates
Stretch shoes

ADDITIONAL TOOLS

N-RE



Remove eyelets
For skates & boots

N-E



Attach eyelets
For skates & boots

V 24



Attach shoe lace hooks
For figure skates & boots

ORT201+301



Attach special rivets
For orthoses & similar

RIVETS, EYELETS & SHOE LACE HOOKS

SN



Tube rivets
Lengths: 8, 10, 12, 14,
16, 18, 20, 22 & 24 mm

KN



Copper rivets+washers
Lengths: 26 & 32 mm

EL



Eyelets
Color: Black

FH



Shoe lace hooks
Color: White or black

TOOL HOLDERS

V 30



For ski boots
Remove/attach belt buckles
V28 & V29 for joint rivets

ORT100



Extra support for orthoses
Useful when it is hard to reach
Attach straps