



NOCH 60112 Static Grass Machine Instruction Manual

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NOCH 60112 Static Grass Machine



Gras-Master 3.0

Thank you for purchasing the NOCH Gras-Master 3.0. This third generation of the NOCH flocking device makes it possible for you to achieve better and more realistic results in creating meadows and patches of grass.



And it works that simple

- The ground to be flocked with grass is coated with special NOCH Grass Glue (ref. 61130 or 61131).



- The grass fibres are loaded into the grass container. Different lengths and colours can thus be mixed.



- The crocodile clip (counter-pole) is fastened near the surface where the grass is to be applied.



- Due to the electrostatic charge, the grass fibres stand vertically in the glue bed.



Introductions

Find application possibilities, recipes and ideas for your model landscape design on www.noch.com and the YouTube channel www.noch.de/youtube. Brush some NOCH Grass Glue, item no. 61130 or the NOCH Grass Glue XL, item no. 61131 onto the area that you want to flock with grass. Fill the glass container of the Gras-Master 3.0 maximally 2/3 full with NOCH Grass. Depending on the length of the grass fibres choose the suitable sieve. The fine sieve can be used for 1.5 mm to 2.5 mm grass and snowflakes. The medium sieve is appropriate for grass fibres of 2.5 mm to 6 mm in length (Scatter Grass, Master Grass Blends, Wild Grass). The coarse sieve is to be used for 6 mm to 12 mm long fibres (Wild Grass and Wild Grass XL). These are recommendations and may be adjusted by yourself according to your requirements. Now attach the alligator clip to the landscape in the area that you want to cover with grass. For this purpose, you can use a small nail or a fixing pin. Switch on the Gras-Master 3.0 (the red LED lamp is on) and gently shake the device over the area covered with glue. After the glue has dried

you can vacuum off the loose grass fibres and apply them later again. When you finish your work, always switch the Gras-Master 3.0 off (the LED lamp goes out).

Function

The centrepiece of the Gras-Master 3.0 is an electronic circuit transforming the 9 V battery voltage into a stable, negative high voltage of up to approximately 11 kV DC. The bottom of the grass container is coated with a conductive special varnish. This layer is connected with the high voltage (up to approximately 11 kV), while the earth (0 V) is connected to the earth cable. During operation, a strong electric field is formed between the high voltage and the earth. The grass fibres are negatively charged in the container by the escaping electrons. After passing through the sieve, the fibres are attracted by the substrate surface connected to the earth, where, after adhering to the previously applied adhesive layer, they align themselves vertically due to the electric field. Therefore an electrically conductive substrate is necessary for a good function, which is achieved by the conductive special adhesive. Even after switching off the device, the high voltage is still present for a short time. Therefore do not touch the bottom of the grass container, not even when removing the remaining material. Due to the special construction, that is protected by registered design, a minimum power consumption and a maximum of safety is achieved.

Technical data

- **Operating voltage:** 9 V
- **Power consumption:** approx. 120 mA
- **Output voltage:** up to approx. 11 kV
- **Power supply:** 9 V battery block, alkaline
- **Operating time:** approx. 3-4 h

Function indication by red LED On/Off switch

Safety Instructions

Proper use

This product is a scale modelling article aimed at ambitious modellers and no toy. It is designed for use on a model layout. It must exclusively be operated together with the accessories recommended by NOCH. NOCH products are developed and designed for the hobby sector, not for permanent operation. This product is intended for use at average room temperature and humidity. Please operate the product only indoors, and avoid any atmospheric influences. Any other use will be considered not to conform with the proper use or intended purpose. NOCH GmbH & Co. KG will assume no responsibility for any damage or defect resulting from improper use or the non-observance of the directions given in the instruction manual.

Operating and storage conditions

- Observe the following operating conditions: 15 °C – 40 °C, up to 75 % relative humidity, do not allow the formation of dew.
- Observe the following storage conditions: 10 °C – 60 °C, up to 85 % relative humidity, do not allow the formation of dew.

General safety recommendations (for your safety)

- Carefully read through the instruction manual before use.
- Pay attention to the safety recommendations and warnings given in the instruction manual or provided on the product.

- Always retain the instruction manual available near to the product itself.
- Hand over the product to third persons only together with the instruction manual.
- Operate the product only when it is in perfect condition.
- It is necessary to keep this product and all accessories (adhesives, paints, knives, etc.) out of the reach of children.
- Let children use the product only under the supervision of adults.
- This product may be used by children or persons with reduced psychic, sensory or mental capabilities, or by persons lacking experience or knowledge if they work under supervision or have been instructed in the safe use of the product, and understand the hazards resulting from such activity. Cleaning and maintenance may not be carried out by children without the supervision of adults.
- Inform children of the contents of the instruction manual, if necessary, and of the potential hazards related to the use of the product.
- Children must not play with the product.
- The product must not be operated when persons with pacemakers are present.
- Wash your hands and clean your tools after using the product.
- Do not eat, drink or smoke while using the product.

Disruption hazard

Devices without tested electromagnetic compatibility may cause failures and malfunctions. Do not operate any device that was not tested near the plant.

Overload hazard

Operating the product with the wrong power pack may result in property damage.

Explosion hazard

Operating the product in explosive environments or with unsuitable batteries may trigger explosions and cause severe injuries and property damage. Do not operate the product in explosive environments.

Fire hazard

- Using the product with faulty or old batteries or in permanent operation may trigger a fire or generate smoke.
- Do not operate the product while it is unattended.
- Before prolonged storage, remove the battery from the device due to the risk of leakage.
- Immediately disconnect the product from the power supply if smoke or a scorching smell is generated.

Corrosion hazard / Risk of short circuits

- Using the product in moist rooms or any contact of the product with water may cause short circuits and property damage.
- Use only in dry rooms.
- Avoid any contact with water or other liquids.

Risk of physical injury and property damage

Improper use of the product may cause physical injury and property damage.

Electric shock hazard

- Avoid danger to life through electric shock.
- Never touch the bottom of the flock container when the device is in operation.

- Never operate a damaged product.
- Never open and repair the product yourself. Do not make any changes to the product that are not described in the operating instructions. The product contains current-carrying parts. There is a danger to life after opening the product.
- Repairs may only be carried out by NOCH.

Environmentally friendly disposal (WEEE)

Products that are labelled with the symbol of a crossed dustbin must not, at the end of their life span, be disposed of with common household waste, but must be handed over to a collecting point that recycles electrical and electronic equipment. The symbol on the product, in the instruction manual or on the packaging calls the user's attention to such obligation. All materials used are recyclable according to their marking. When allowing recycling, the reutilization of materials, or any other form of recycling used equipment, you will make a valuable contribution to the protection of our environment. Please enquire from your local authorities which disposal companies are relevant in your vicinity.

- Please observe the local regulations regarding waste disposal.
- Please observe the WEEE directive in the version currently applicable.
- Remove any batteries from the product before scrapping it.

Suitable accessories

Sieves Set, 3 parts

The Sieves Set contains one fine, one medium and one coarse sieve. The rule of thumb is the shorter the grass fibre, the finer the sieve. The fine sieve can be used for 1.5 mm to 2.5 mm grass and snowflakes. The medium sieve is appropriate for grass fibres of 2.5 mm to 6 mm in length. The coarse sieve is to be used for 6 mm to 12 mm long fibres. But dare to experiment, too: If you place long grass fibres in the medium sieve, fewer fibres will reach the ground. Dry, sparse meadows can be depicted in this way, or different grass fibres can be carefully mixed on the substrate. There's no limit to your imagination!



60114 Sieves Set, 3 parts

each 1 sieve fine, medium and coarse for the Gras- Master 3.0 and the Gras-Master 3.0 PROFI

Grass Flocking Templates, 5 pieces

With the templates, you can quite easily design partially covered areas. The results are edges, tufts, stripes, areas and various patches of grass. You can use the templates in two ways: Either you apply Grass Glue (ref. 61130 or 61131) onto the substrate first, loosely hold the template over it and then flock through the gap onto the wet glue. Or you can spray Spray Glue "Haftfix" (ref. 61151, see below) onto a surface using a template resting on the substrate. You can then flock without holding the template. Individual gaps in the templates can be blocked with masking tape. Again: Dare to experiment!



60139 Grass Flocking Templates
5 pieces

Grass Glue

The NOCH Grass Glue was specifically designed for electromagnetic flocking. In comparison with conventional adhesive and wood glue, it has the following features and advantages:

- perfect consistency: it is easy to spread without running
- it sets slowly: You can flock to your areas without time pressure, so there are no “bare” spots in your meadow
- it dries out perfectly transparent: no white streaks
- it has a high adhesive strength: the adhesive strength is significantly stronger than, for example, diluted wood glue



61131 Grass Glue XL
750 g



61130 Grass Glue
250 g

Spray Glue “Haftfix”

- The universal Spray Glue is suitable for all types of glueing tasks – for modelling as well as around the home.




61151 *Spray Glue »Haftfix«*
400 ml

CONTACT


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Documents / Resources

	<p>NOCH 60112 Static Grass Machine [pdf] Instruction Manual 60112 Static Grass Machine, 60112, Static Grass Machine, Grass Machine, Machine</p>
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References

-  [YouTube](#)
-  [NOCH Specialist for Model Landscaping](#)
-  [NOCH Spezialist für Modell-Landschaftsbau](#)
-  [YouTube](#)
- [User Manual](#)

