Graupner CE

Operating instructions for the CUX 38 NORDSTERN model boat, Order No.: 2007

The full-size vessel

Our model of the CUX 38 Nordstern is based on a North German fishing cutter. These ships are still to be seen in all the fishing harbours along the coast, where they are employed for in-shore fishing.
This model continues the new series of high-quality ready-made models which began with the successful AM 75 Möwe.

The model

This boat represents a new benchmark of quality for this type of ready-made model. Even an experienced model builder would find it difficult to emulate the boat's excellent standard of construction and finish without very considerable effort.
The core of this high-quality model is the robust moulded GRP hull, complemented by the superstructure and deck which are constructed from laser-cut wooden parts. Many of the small items are of metal, and almost everything is factory-assembled. The hull, some parts of the superstructure, the masts and fittings are spray-finished using semi-matt paints, and the decals, computer-cut from plastic foil, are already applied. All the rigging is supplied ready-made, and is attached using releasable fittings, enabling the deck to be removed easily. This makes installation of the RC system components a very quick, simple process.
Optional accessories include two hand-painted crew figures (engineer, kneeling, and engineer, standing), which are available under Order Nos. 375.10 and 375.11; add these to the model to make it really "come alive".
To prepare the boat for running all you have to do is fit a few small items, install the RC components and the drive battery, carry out a little soldering, and the model is ready for the water.

Specification

Length approx.	600 mm
Beam approx.	220 mm
Overall height approx.	530 mm
All-up weight incl. RC approx.	3.2 kg
Scale approx.	1 : 18

Important safety notes

You have acquired a kit which can be assembled into a fully working RC model when fitted out with suitable accessories. However, we as manufacturers have no control over the way you build and operate your RC model boat, nor how you install, operate and maintain the associated components, and for this reason we are obliged to deny all liability for loss, damage or costs which are incurred due to the incompetent or incorrect use and operation of our products, or which are connected with such operation in any way. Unless otherwise prescribed by binding law, the obligation of the GRAUPNER company to pay compensation, regardless of the legal argument employed, is excluded. This includes personal injury, death, damage to buildings, damage due to loss of business or turnover, interruption of business or other direct or indirect consequent damage whose root cause was the operation of the model.
The total liability in all cases is limited to the amount of money which you actually paid for this model.

This model boat is built and operated at the sole and express responsibility of the operator. The only way to avoid injury to persons and damage to property is to handle and operate the model with the greatest care and consideration at all times.

Before you run the model for the first time please check that your private third-party insurance covers the operation of model boats of this kind. If in doubt, take out a special insurance policy designed to cover modelling risks.
These safety notes should be kept in a safe place. If you ever dispose of the model, be sure to pass them on to the new owner.

Guarantee conditions

The guarantee covers replacement of any parts which can be shown to exhibit manufacturing faults or material defects within the guarantee period of 24 months from the initial date of purchase. No other claims will be considered. Cost of transport, packing and freight are payable by the purchaser. We accept

no liability for damage in transit. When you send the product to GRAUPNER, or to the approved Service Centre for your country, you must include a clear and concise description of the fault together with the invoice showing the date of purchase. The guarantee is invalid if the component or model fails due to an accident, incompetent handling or incorrect usage.

The following points are important and must be observed at all times:

- This model is not suitable for young persons under 14 years of age.
- The projecting parts of the model may be sharp, and the aerials and masts could cause eye injuries.
- Bear in mind that tools can be dangerous; always be careful when handling them.
- Operate the model ***carefully*** when there are persons or animals in the water, and ***always*** keep a ***safe distance*** away from people and animals.
- Never run your model in protected sites, animal or plant sanctuaries or sites of special scientific interest (SSSIs). Check with your local authority that the stretch of water you wish to use is suitable for model boats.
- ***Never*** run the boat in salt water
- ***Never*** run the boat in adverse conditions, e.g. rain, storm, strong wind, choppy water or strong currents.
- Read the instructions provided with your radio control system and accessories, and observe the recommendations.
- Before you run the model check that the radio control system is working reliably, and that all connections are secure.
- The dry batteries must never be recharged. Only batteries marked as “rechargeable” are safe to recharge.
- Check the range of the radio control system before each session: ask a friend to walk about 50 m away from the model carrying the transmitter. Your friend will be able to tell you whether all the working functions operate correctly at this range.
- Ensure that the frequency you intend to use is not already in use by other modellers. Never run your boat if you are not certain that your channel is free.
- Bear in mind that other radio equipment and transmitting stations can cause serious interference to the model. Ensure that no equipment of this type is being used in the vicinity while you are operating the model.
- Do not carry out any work on the drive train unless you have disconnected and removed the battery.
- When the drive battery is connected keep well clear of the area around the propellers. Make sure any spectators do the same.
- Do not be tempted to exceed the recommended operating voltage. Higher voltages may cause the motors or speed controller to overheat, and the electrical cables may even melt. If this should happen, the model could easily be ruined.
- Check that all the drive train components work smoothly and freely. This applies in particular when the boat is running, as leaves and other debris may get caught in the power system components. The motor and speed controller could then be ruined by overloading.
- Dry cells and rechargeable batteries must never be short-circuited. Do not allow them to come into direct contact with water.
- Remove the rechargeable battery and the dry cells in the transmitter and receiver pack if the model is to be transported, or will not be used for a long period.
- Do not subject the model boat to high levels of humidity, heat, cold or dirt.
- Secure the model and your RC equipment carefully when transporting them. They may be seriously damaged if they are free to slide about.
- ***Never*** operate the boat in moving water (e.g. a river), as its low speed may result in the model drifting off downstream.
- If you have to ***salvage*** the model, take care ***not to risk your own life or that of others.***
- Take particular care to ensure that the boat is completely watertight, as it will sink if too much water enters the hull. Check the model for damage before every run, and ensure that water cannot penetrate through the shaft bearings.
- Allow the boat to dry out thoroughly after each session.

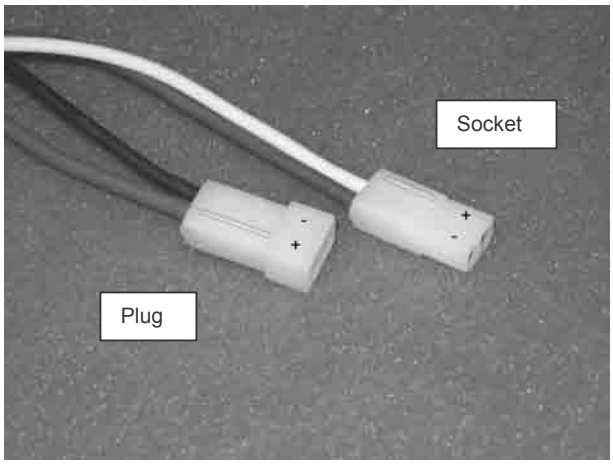
Care and maintenance

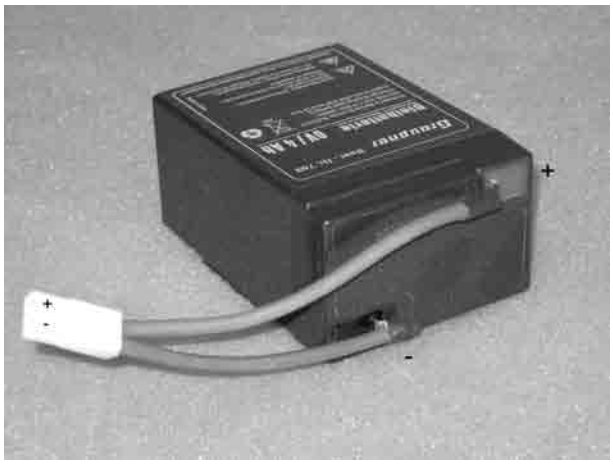
- Clean the model carefully after every run, and remove any water which penetrates the hull. If water gets into the RC components, dry them out carefully and send them to your nearest GRAUPNER Service Centre for checking.

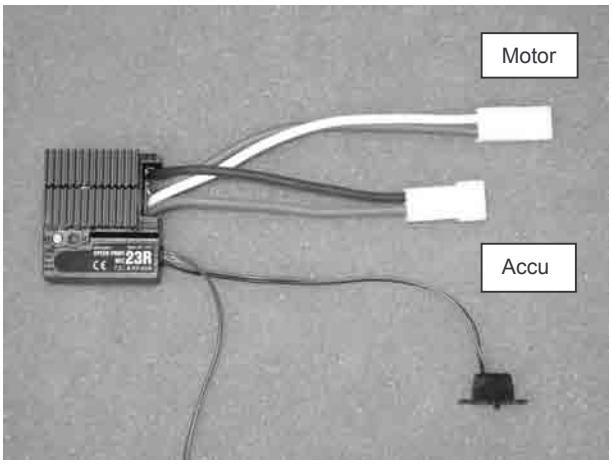
- Clean the model and transmitter using suitable cleaning agents only. All you need is a lint-free cloth. ***Never*** use chemical cleaners, solvents, methylated spirits, white spirit or similar.
- Lubricate the propeller shaft at regular intervals by applying a small drop of oil to the bearings. Use a type of oil which does not soil or contaminate water, e.g. Order No. 206. At the end of the season we recommend that you remove the propeller shaft and re-lubricate it using water-neutral grease, Order No. 570.

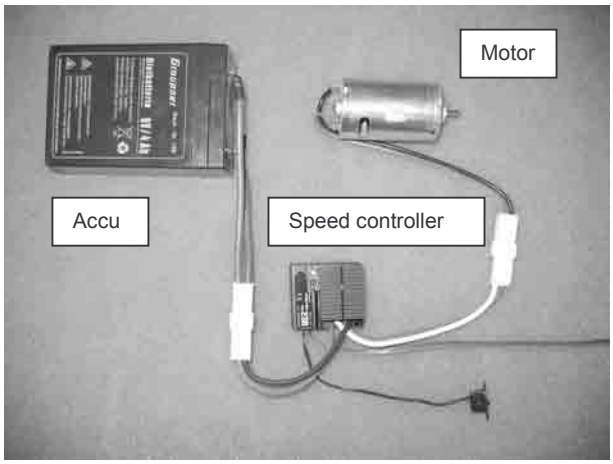
Assembling the model

- Carefully unpack the model and the boatstand. The masts are packed in the box under the model stand. Don't unpack these until you need them, otherwise they could get lost.
- Open the deck by removing the two hatches.
- Cut down the wires attached to the motor by about 7 cm. The excess wire is needed again later.
- Remove the motor by loosening the clamp which holds it in place, and undo the shaft coupling at the motor end. Solder a G2 plug to the wires attached to the motor, then re-install the motor in the hull. **NOTE**: the raised lug on the plastic housing of all G2 connectors should always be the positive terminal (red wire). If you keep consistently to this principle, your batteries and speed controllers will be interchangeable, and the system will be protected against accidental reversed polarity.
- Check that the screws in the shaft coupling are tight, as they may have come loose in transit; re-tighten them if necessary.
- Locate the two pieces of wire you previously cut from the motor; solder one end of them to the terminals of the battery, and solder a G2 socket to the other end. **TIP**: in the photo the solder joints are shown insulated with pieces of heat-shrink tubing, but insulating tape is also perfectly adequate.
- Solder a G2 plug to the battery wires attached to the speed controller. Solder a G2 socket to the motor wires attached to the speed controller.
- Press the rubber grommets into the mounting lugs of the rudder servo, and push the brass sleeves through them from the underside. Fix the servo in the model using the retaining screws supplied. Drill out one hole in the servo output arm to 2 mm Ø, connect the rudder pushrod to the hole and secure it with a plastic pushrod retainer.

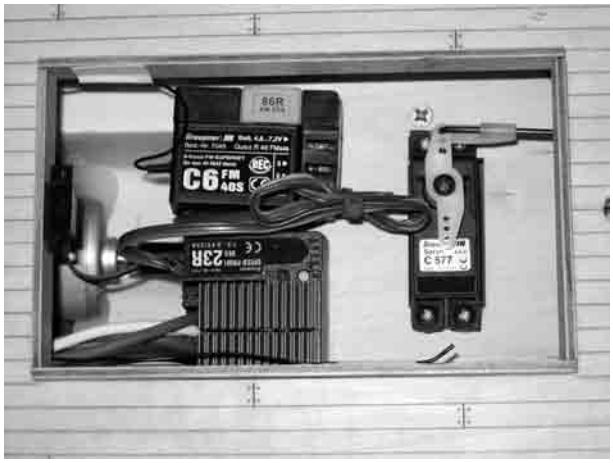


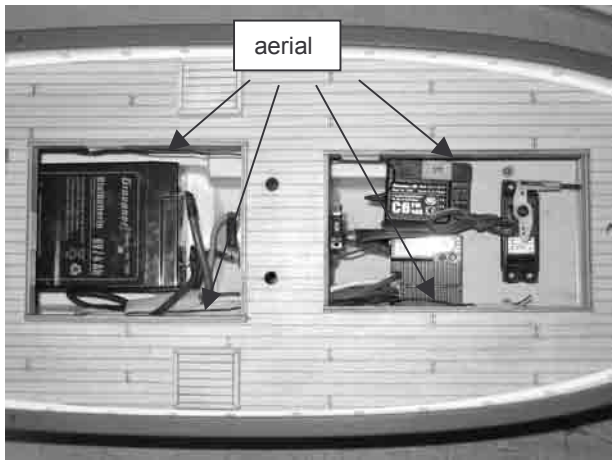


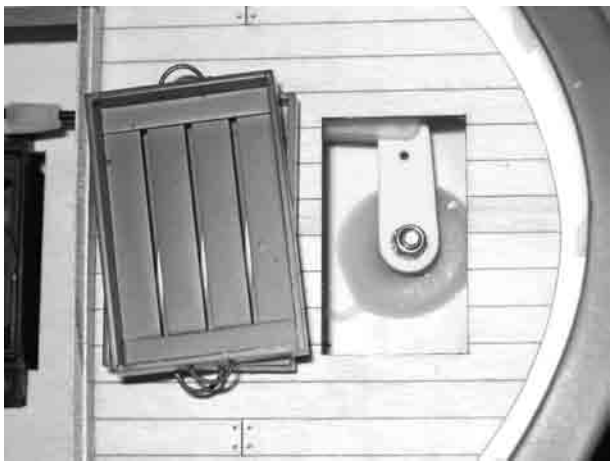


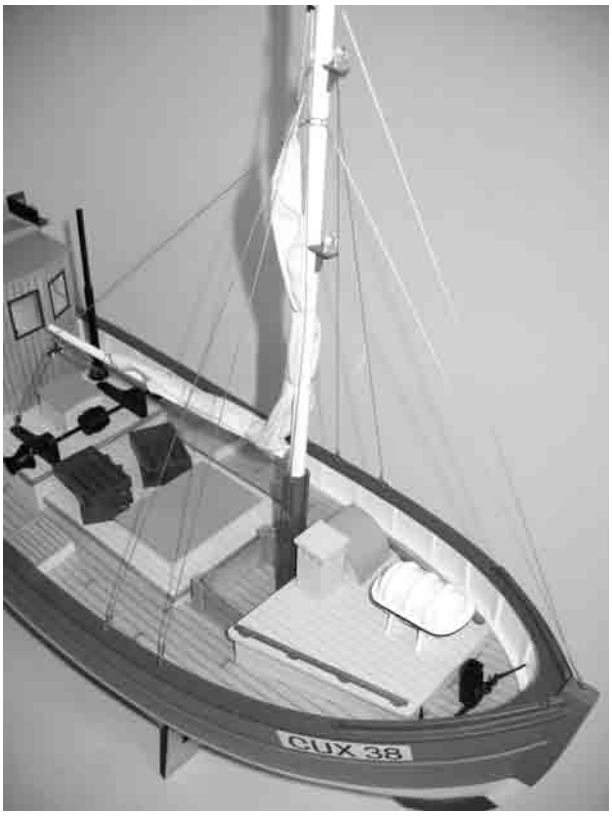


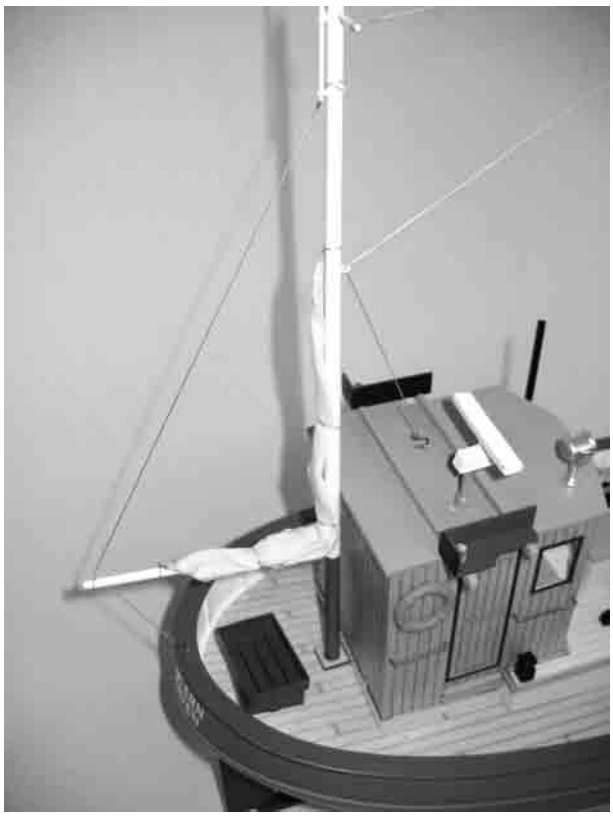
- Attach Velcro (hook-and-loop) tape or double-sided foam tape to the speed controller and the receiver and install them on the RC plate, but please check that they do not foul the underside of the deck.
- Deploy the receiver aerial under the deck support flange inside the hull, and tape it in place securely. **IMPORTANT**: to ensure reliable reception, the aerial wire must be as high as possible above the waterline, and should run in a broad curve round the hull; the GRP hull only has a very slight adverse effect on radio reception. If you prefer, you can install a vertical whip aerial made of thin wire. If you do this, shorten the flexible aerial attached to the receiver by the same length as the whip, then solder the two together.
- Place the battery in the model and check the working systems. The battery must be fixed securely, so that it cannot slip out of position. You can use foam blocks or Velcro (hook-and-loop) tape for this.
- You will find an opening under the two fish crates at the stern; this provides access to the rudder system for maintenance. The cover plate can be removed by pressing it up from inside the model.
- Fit the masts in the appropriate holes in the deck. The masts should not be glued in place, as you may wish to remove them again at some stage. **NOTE**: the rigging cords should not be connected to the rings in the bulwark until both masts have been inserted, otherwise the tension in the cords would be excessive, and the rigging could be damaged.
- Carefully connect the rigging cords to the rings, referring to the photos in the instructions and on the kit box.
- **TIP**: it is a good idea to fill the fish crates with rice grains (look for a type with a glossy silver husk), as the rice looks like small fish, such as herring. If you wish to do this, be sure to seal the rice carefully with clear lacquer beforehand, otherwise it may start to rot due to the effect of moisture.







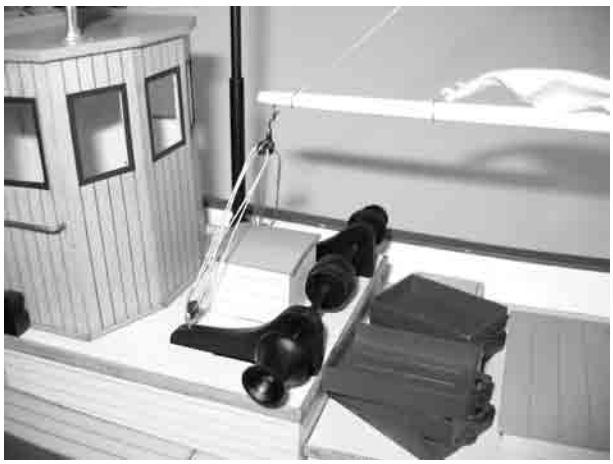




Maiden run

Charge up the batteries and check each working system in turn. Ensure that all the loose parts are secured well. Now you are ready for the boat's maiden run. Keep the speed down initially until you feel familiar with the model's handling characteristics. Don't allow the boat to get too far away from the bank.

We hope you have many hours of pleasure assembling and running your CUX 38 NORDSTERN model boat.



Replacement parts

Order No. 2021.6	Propeller
Order No. 3323	SPEED 600 ECO electric motor

You will also need the following items (not included in the set)

Order No. 4709	X-306 ECO-SPORT FM RC set
Order No. 7191	SPEED PROFI 23R speed controller
Order No. 2989	G2 connector system for speed controller and battery (two sets required)
Order No. 3368.1	Velcro tape, or double-sided foam tape (Order No. 2904). Similar types of hook-and-loop or double-sided tape (carpet tape) can also be used.

Optional accessories

Order No. 375.10	Engineer, kneeling
Order No. 375.11	Engineer, standing

Overall view