



 **robbe**



Installationmanual harbour tug **FAIRPLAY**

Detailed scale model of a
harbour tug with high
prefabrication and elaborate
painting in scale 1/50

No. 1199

V01/07/16



General notes on the installation instructions

The installation instructions are divided into logically consecutive construction stages. Get an overview of the respective stage of construction using the illustrations and the instruction texts during construction.

Directions can always be seen forwards in the direction of travel.

Explanation of technical terms (always looking forward in the direction of travel)

Starboard: Right side of the ship. Position light = green.

Port: Left side of the ship. Position lantern = red.

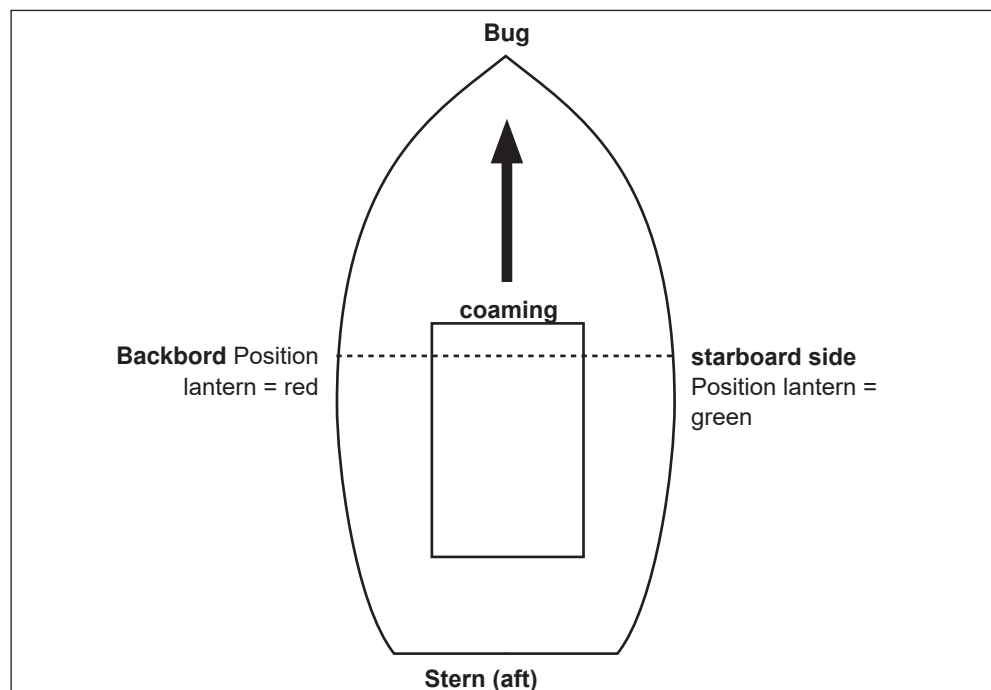
Bug: The bow is the front part of the ship.

Stern: The stern is the stern part of the ship.

Aft: The "aft" refers to the rear part of the ship from the centre of the ship.

coaming: The coaming is the upright border of openings in the deck of ships and boats.

Rudder coker: Vertical, watertight bushing for the rudder shaft. CWL: Waterline


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Modellbau Lindinger GmbH hereby declares that this device complies with the essential requirements and other relevant regulations of the corresponding CE directives. The original declaration of conformity can be found on the Internet at www.robbe.com, or on request.

This product can be operated in all EU countries.



This symbol means that small electrical and electronic equipment must be disposed of at the end of its useful life, separated from household waste. Dispose of the equipment at your local municipal collection point or recycling centre. This applies to all countries of the European Union and other European countries with a separate collection system.

Guarantee

Our articles are of course equipped with the legally required 24 months warranty. Should you wish to assert a justified warranty claim, always contact your dealer, who is responsible for the warranty and the processing. During this time, any functional defects that may occur, as well as manufacturing or material defects, will be remedied by us free of charge. Further claims, e.g. for consequential damages, are excluded.

The transport to us must be free, the return transport to you is also free. Freight collect shipments cannot be accepted. We cannot accept liability for transport damage and loss of your consignment. We recommend appropriate insurance.

To process your warranty claims, the following requirements must be met:

- Attach the proof of purchase (receipt) to your shipment.
- The units have been operated in accordance with the operating instructions.
- Only recommended power sources and original robbe accessories have been used.
- There is no moisture damage, external interference, reverse polarity, overloading or mechanical damage.
- Attach relevant information for finding the fault or defect.

Assertion

Ground-based models are usually covered by personal liability insurance. Additional insurance or extension is required for aircraft models. Check your insurance policy (private liability) and take out insurance if necessary.

disclaimer of liability

The observance of the assembly and operating instructions as well as the conditions and methods for installation, operation, use and maintenance of the model components cannot be monitored by robbe Modellsport.

Therefore, we accept no liability whatsoever for losses, damages or costs arising from or in any way connected with incorrect use and operation. To the extent permitted by law, the obligation to pay damages, for whatever legal reasons, is limited to the invoice value of the robbe products directly involved in the event causing the damage. This does not apply if liability must be unlimited due to intent or gross negligence in accordance with mandatory statutory provisions.

The original:

The Fairplay VI is an extremely powerful and manoeuvrable Schlep-per, built in Cuxhaven in the early 1990s and used in the large seaports of the port cities of Hamburg and Rostock.

The model:

- Realistic almost finished ship model
- Numerous fitting parts for detailed design
- multicoloured, high-quality lacquering
- Only final assembly and RC component installation required
- Mounted drive set with motor

The model is prefabricated in the factory so that the final work by the new owner is limited to installing the fittings and the RC system.

No special tools are required for this work. The model is delivered with a high-quality and extensive lacquering, so that no additional work is also necessary here. The construction is made of plastic parts in great detail. The glazing is inserted individually. There is sufficient space in the fuselage to accommodate the electronic components. These are easily accessible by lifting off the body.

Due to the high degree of prefabrication, launching is possible within a very short time.

scope of supply:

- Nearly finished model including fitting and drive set
- Multicoloured lacquered ABS fuselage
- Mounted and multi-coloured painted plastic body with inserted windows
- Powerful electric motor (direct drive without gear)
- Ship shaft with stern tube and couplings assembled ready to drive
- Assembled rudder coker for easy assembly of the steering gear
- Fittings such as painted railing, mast, life rings, Ra-dar system, bollards, and other small parts
- Multilingual, illustrated assembly instructions for final assembly and installation of the RC components (RC components not included)
- Boat stand (kit)

RC installation:

Optional installation of probe functions is possible at your own discretion.

The placement of the selected remote control components can vary greatly depending on the number and equipment.

The position of the centre of gravity can be precisely adjusted by moving the travel battery. The placement of the remote control components generally depends on the centre of gravity (CLW = waterline) of the finished model.

Technische Daten:

Length:	approx. 650mm
Width:	approx 210mm
Height:	approx 400mm
Displacement:	approx 2.850g
Scale:	1/50

RC functions:

Rudder control, engine control

RC functions Optional:

Light functions, special functions, sound functions

Recommended accessories:

Remote control: min. 2-channel TX w/
o any optional functions

Driving operation:

2x drive battery 6V	
1x cruise control rookie 25	No. 8401
Battery connection:	
TAM Gold bushings	
TAM Gold connector	
Highly flexible. stranded wire 1,5mm ²	

Materials, adhesives and other aids:

Superglue robbe Speed Type 1	Superglue robbe	No. 5062
Speed Type 2		No. 5063
Velcro tape H+F self-adhesive 300x1000mm		
Cable ties 3x150mm		

Please read the safety instructions carefully before building your model. Always follow the procedures and settings recommended in the instructions. If you are using remote-controlled model ships for the first time, we recommend that you ask an experienced model builder for help.

safety notices

Remote-controlled models are not toys in the usual sense and may only be used and operated by young people under the age of 14 under the supervision of adults.

Their construction and operation require technical understanding, careful craftsmanship and safety-conscious behaviour.

Errors or negligence during construction or driving can result in considerable damage to property or personal injury.

As manufacturers and sellers have no influence on the proper construction and operation of the models, these risks are expressly pointed out and any liability is excluded.



Ship's propellers and all moving parts in general represent a constant risk of injury. Avoid touching such parts at all costs.



Note that motors and controllers can reach high temperatures during operation. Avoid touching such parts at all costs.



Never stay in the danger area of rotating parts with electric motors with connected drive battery.

Also make sure that no other objects come into contact with rotating parts!



Follow the instructions of the battery manufacturer. Overcharging or incorrect charging can cause the batteries to explode. Make sure the polarity is correct.

Protect your equipment from dust, dirt and moisture. Do not expose the equipment to excessive heat, cold or vibration.

Remote control operation may only be carried out within the specified temperature range.

Use only recommended chargers and charge your batteries only up to the specified charging time.

Always check your equipment for damage and replace defects with original spare parts.

Do not use wet devices, even if they are dry again!

Either have it checked in the robbe service or replace it. Hidden faults can occur due to wetness, which lead to a functional failure after a short operating time.

Only the components and accessories recommended by us may be used. Always use original robbe-Futaba connectors as well as original robbe-Futaba spare parts.

No changes may be made to the remote control systems.

Routine tests before the start

- Before switching on the receiver, make sure that the throttle stick is in stop / idle position.
- Always switch on the transmitter first, then the receiver.
- Always switch off the receiver first, then the transmitter.
- Carry out a range test before starting.
- Is the correct model memory selected?
- Perform a function test.
- Are the batteries sufficiently charged?
- If in doubt, never drive the model!

model company

- Never endanger people or animals.
- Do not operate your model near locks and public shipping.
- Operate your model only in approved locations.
- Do not operate your system during thunderstorms.
- Do not "aim" the transmitter antenna at the model during operation. The transmitter has the lowest radiation in this direction. The best is the lateral position of the antenna in relation to the model.



Hint!

In addition to the safety instructions listed here, all safety instructions for the components used for the RC removal as well as those used in the travel drive must also be observed!

Insurance

Ground-based models are usually covered by personal liability insurance.

Check your insurance policy and take out insurance if necessary.

Disclaimer:

Adherence to the assembly and operating instructions as well as the conditions and methods for installation, operation, use and maintenance of the model components cannot be monitored by robbe-Modellsport.

Therefore, we accept no liability whatsoever for losses, damages or costs arising from or in any way connected with incorrect use and operation.

To the extent permitted by law, the obligation to pay damages, for whatever legal reasons, is limited to the invoice value of the robbe products directly involved in the event causing the damage.

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performance check

- Place the model in the boat stand. Set truncheons and trimmings at the transmitter to neutral position. The throttle control must be in the "Engine off" position.
- Switch on the transmitter. Insert the drive batteries, connect them to the controller and secure them.
- The rudder must be in the middle position. If necessary, readjust the rudder linkage.
- Check right/left function. If the direction of rotation of the transmitter servo is reversed, actuate the transmitter servo reverse.
- Check engine operation:
- If necessary (e.g. when using components other than those recommended by us), change the running direction by changing the cables between motor and controller.
- Check all built-in special functions.


Attention with motor test runs

Always turn on the transmitter first!

Always run the engine briefly and slowly.

- First disconnect the battery - controller, then switch off the transmitter!
- **Caution:** When working on the boat with the drive battery connected, always ensure that the propeller can rotate freely. Do not place your hands in the propeller's turning circle - risk of injury.

de-rimming

- Place the ready to drive model in a bathtub.
- When using the recommended robbe components, immersion to the design waterline (CWL) is automatic. For trimming, the batteries can be moved longitudinally and the RC components laterally.
- **If necessary, the model can be brought to the waterline (CWL) by adding "Trimmblei".**
- When using other RC components, the boat must be re-trimmed.
- After charging all batteries, the model is ready for maiden voyage.

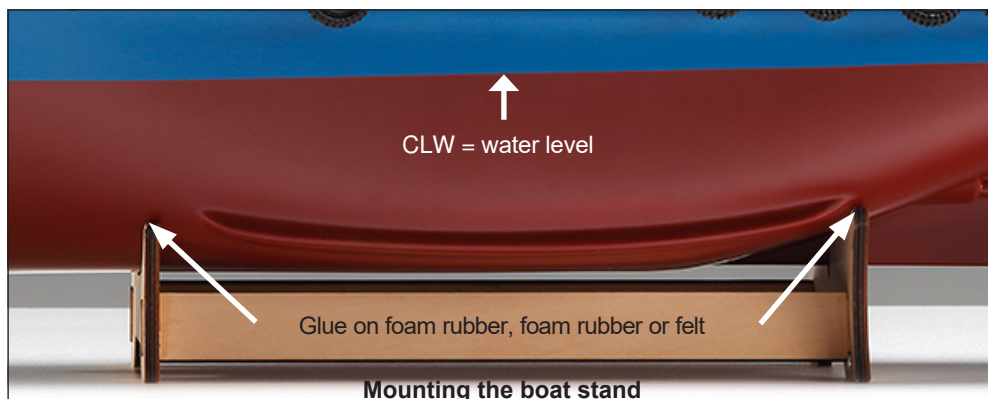

Notes on driving

- Before initial operation, read the sections "Routine checks before start-up" and "Model operation" in the section "Safety instructions".
- Choose a day that is not too windy and a larger water body.
- Always switch on the transmitter first, then insert and connect the drive battery.
- Place the model in the boat stand and perform another functional test.
- Place the model horizontally in the water.
- First get used to the steering reactions of the model at medium driving speed.
- Remove the accelerator to slow down. Do not switch from full throttle forward to full throttle reverse.
- Caution: Driving backwards should only be done very slowly.
- When driving to the shore or near obstacles, for example buoys, always lower the engine in time.
- Do not drive near floats or boats.


advice:

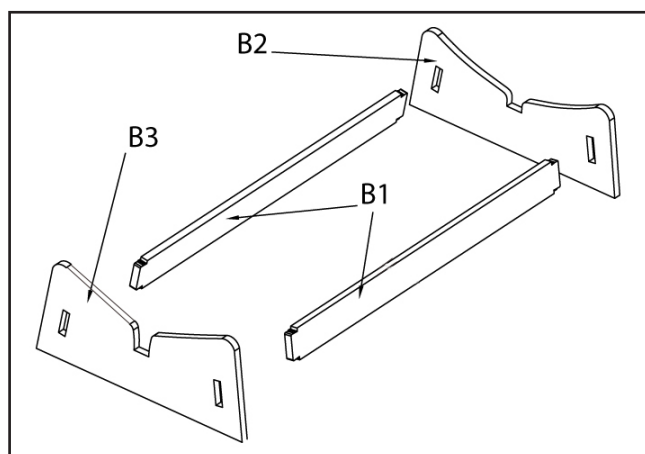
- towards the end of the driving time the battery will wear out in a short time, the model will slow down considerably. If the model no longer reaches the shore, it is necessary to move the controller to the "Stop" position and wait for approx. 3 minutes. After switching on again, the boat can be driven to the shore.
- If driving is stopped, first disconnect the connection from the drive battery to the controller, then switch off the transmitter.
 - Cool down the battery and engine when the boat is open and allow the inside of the boat to dry (condensation).
 - From time to time it is recommended to loosen and pull out the shaft. Grease the stern tube with precision grease and reinstall the shaft. Ensure sufficient longitudinal clearance of the shaft.

The boat stand



Important:

Before starting the assembly you should mount the enclosed boat stand to give the model a safe stand during the work.
To avoid scratching the painted hull, it is essential that the support surfaces of the boat stand are covered with foam rubber, foam rubber or felt (not included).



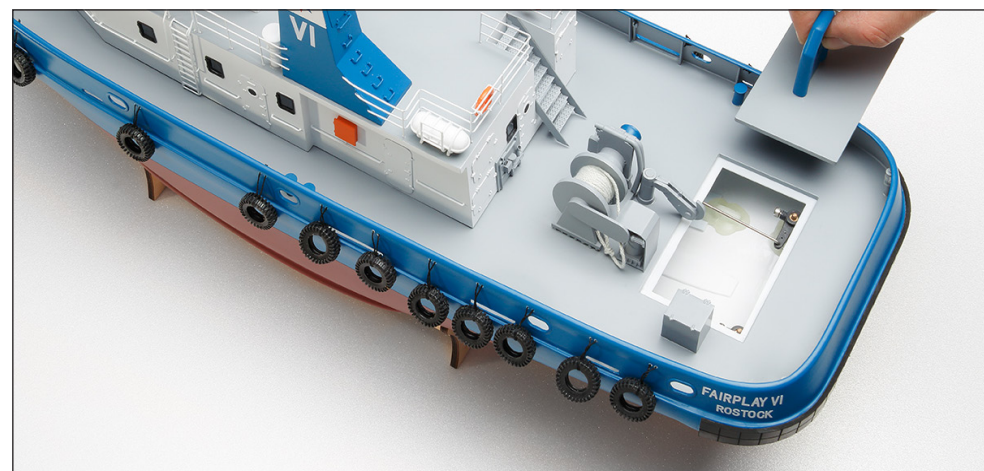
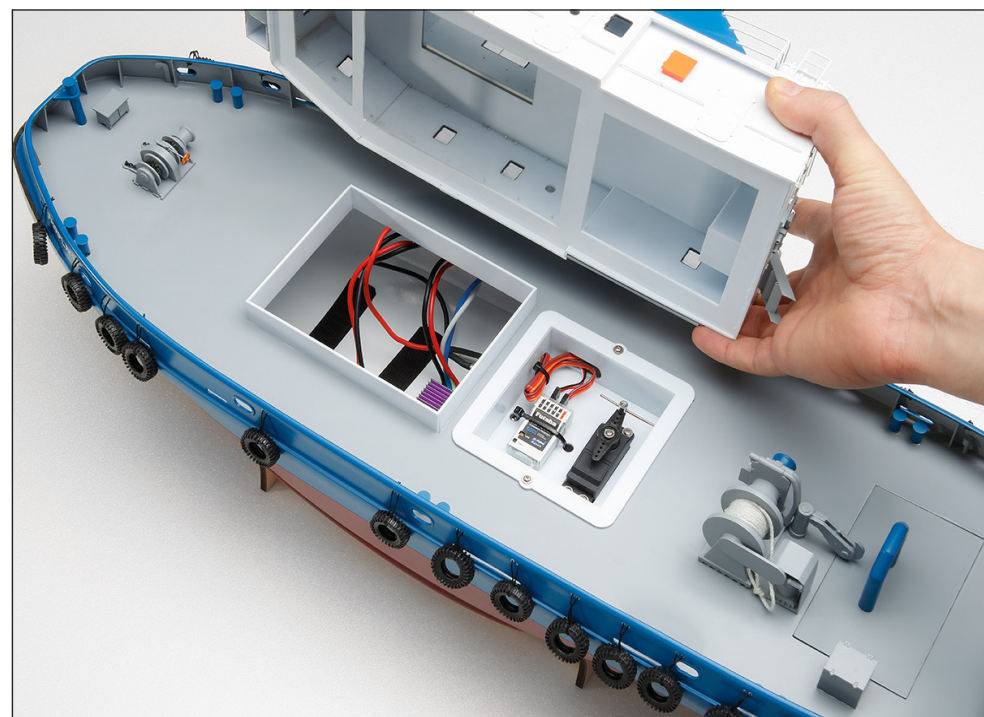
Insert the two longitudinal struts B1 into the side chord B2 (smaller keel recess). Make sure that the parts are inserted exactly flush into the side plate. Now glue the side plate B3 (larger keel recess) on the other side with the two longitudinal struts B1.



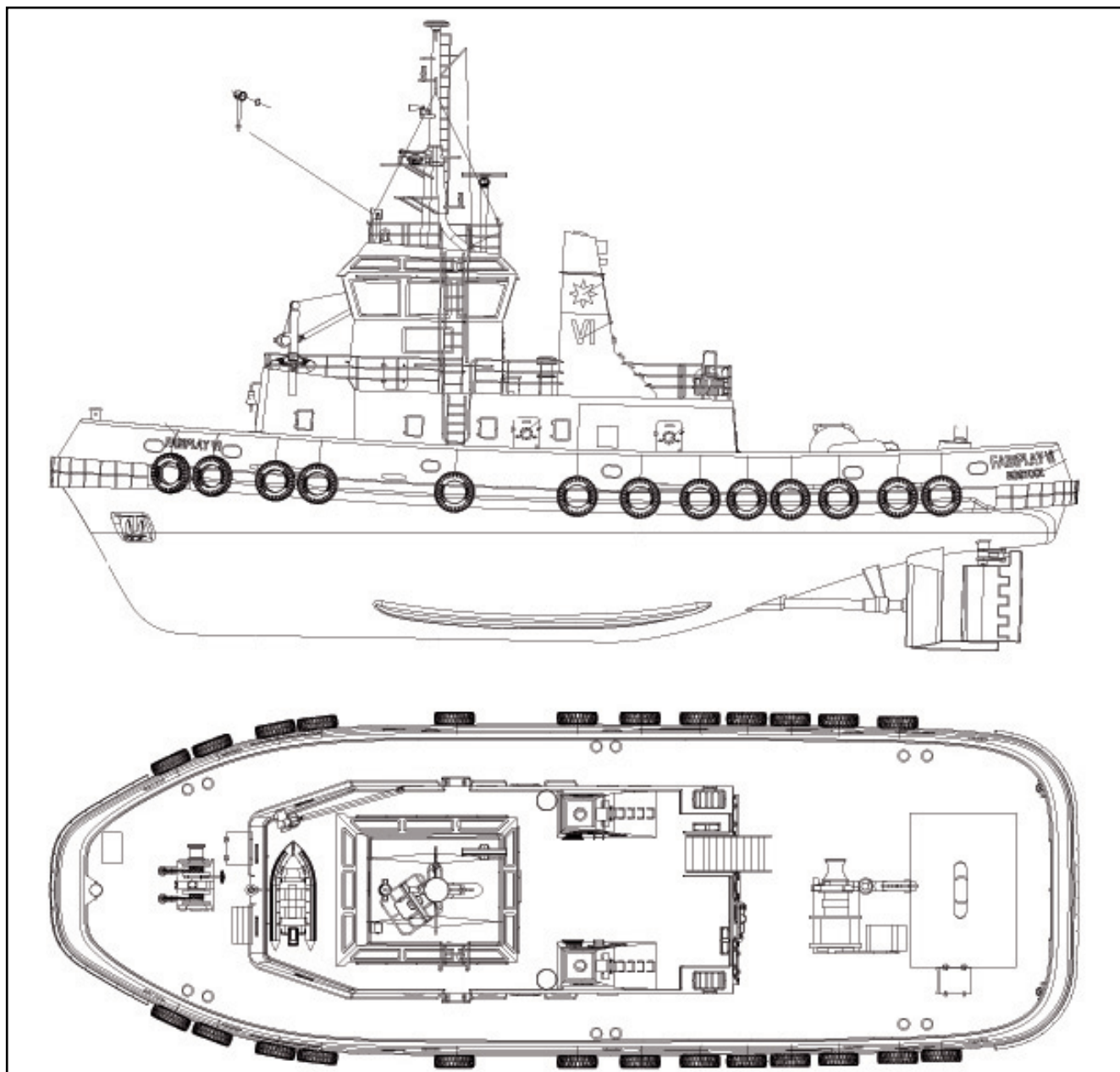
Hint:

It must be ensured that the longitudinal struts are exactly at 90° to the side plates to ensure the safe and straight position of the model.

Attaching the abutment



model overview



Due to the high degree of prefabrication of the model, assembly is possible within a very short time.

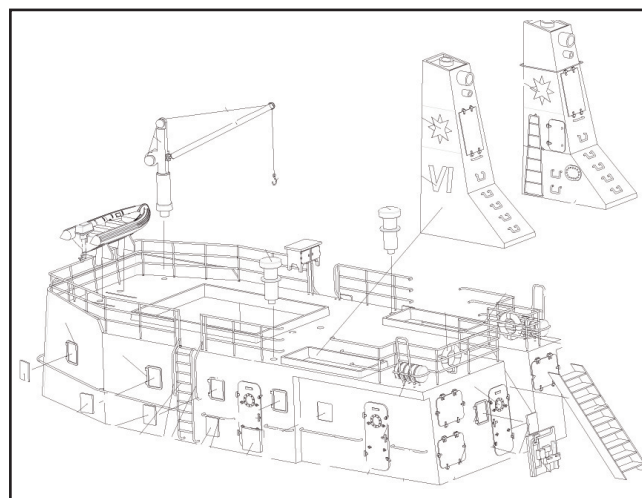
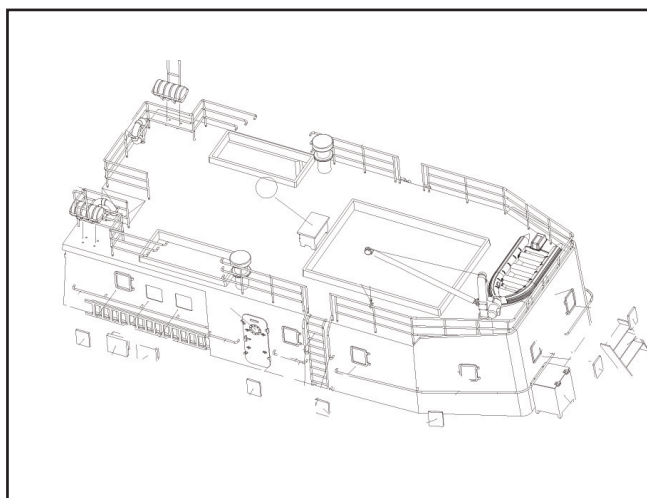
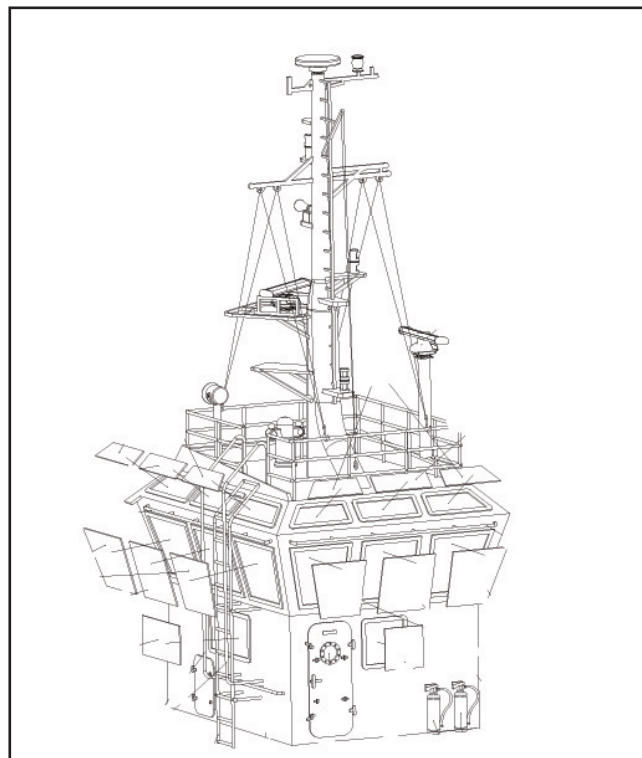
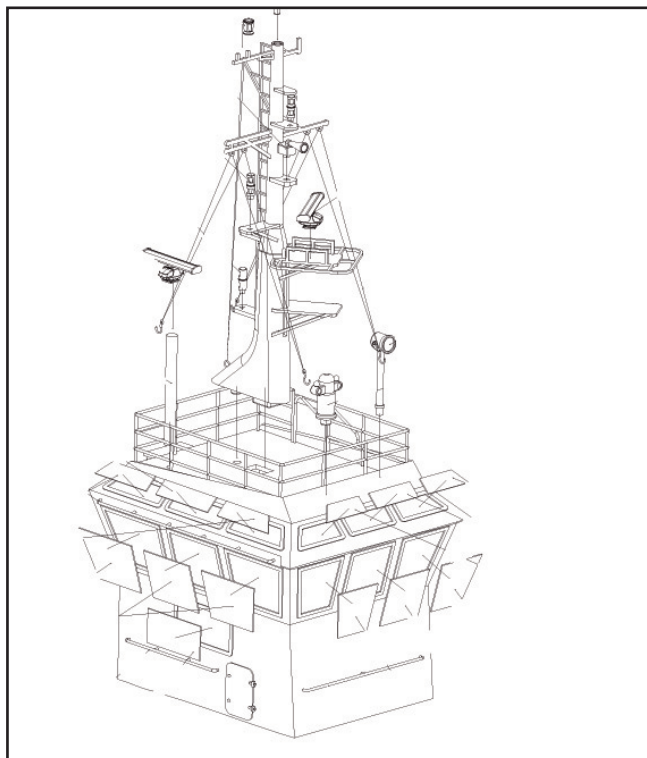
Only the RC components still have to be installed and connected.

For attaching the small parts to the superstructure and ship deck, please observe the mounting locations shown in the technical drawings. Bond with a suitable adhesive. For example robbe speed type 1 (5062) or speed type 2 (5063). Use adhesives sparingly to avoid running or blooming.

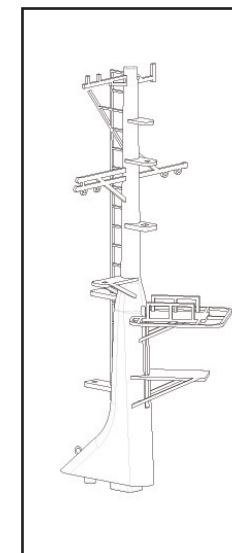


Hint:
All body parts which have to be removed for maintenance, RC operation or similar purposes in order to
into the interior of the ship must NOT be glued to the deck!

Model overview / Positioning of the add-on parts

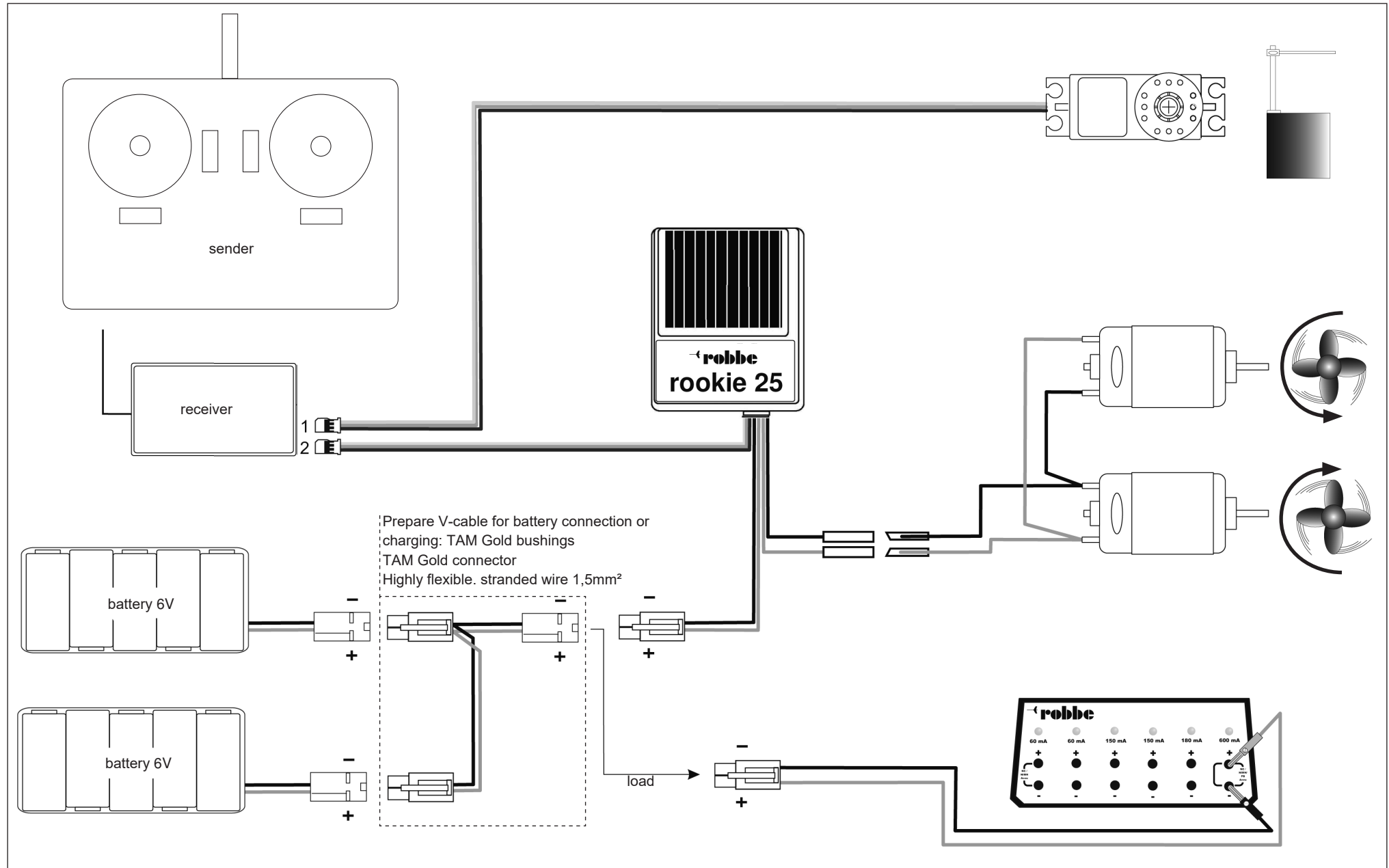


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RC connection diagram harbour tug FAIRPLAY



RC installation


1. Remove the structure
2. Insert the receiver and secure it against slipping with Velcro or a cable tie (see illustration).



3. Place the remaining RC components such as the speed controller and drive battery in the fuselage.
4. Place the model in the water to accurately dim out the RC components (see page 6).
5. Mark the position of the battery and controller in the fuselage so that they can be installed again in the same position when changing.

Now connect the speed controller and the rudder servo to the corresponding outputs of the receiver.

Motor and battery connection (see connection diagram p. 10)

1. Connect the speed controller to the motors.
2. provide the battery cables with one socket each.
3. Make a V-cable from the strand to connect the batteries to each other. Connect a plug to the battery connection cable of the speed controller.

Driving:

Turn on the transmitter and connect the drive battery to the speed controller. Alternatively, you can install an ON/OFF switch between the drive battery and the speed controller. The mounting frame (A) for the ON/OFF switch is already glued on the starboard side under the coaming.

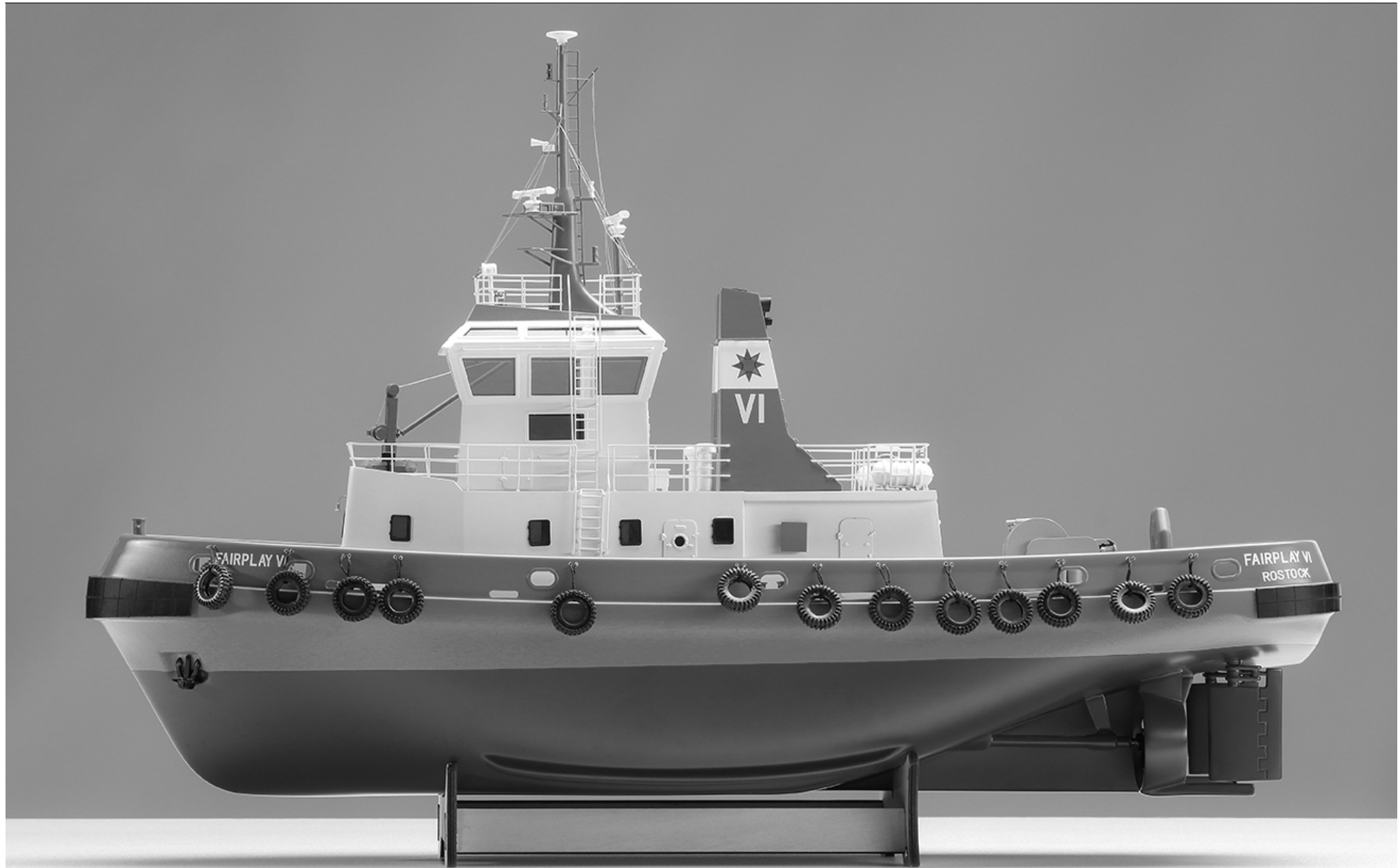

Important notice:
Switch on:

Always switch on the transmitter first, then connect the speed controller to the drive battery!

Switch off:

Always disconnect the speed controller from the drive battery first, then switch off the transmitter!

Always observe the safety instructions and notes on driving on pages 5 and 6!







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