

Owners manual English
ARKIP 460

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Edition 2014:01

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Congratulations on your new Linder boat!

The owner's manual is based on the ISO 10240 standards.

This manual has been compiled to help you to operate your craft with safety and pleasure. It contains details of the craft, the equipment supplied or installed, its systems and information on its operation and

maintenance. Please read it carefully and familiarize yourself with the craft before using it. The owner's manual is not a course in seamanship or boats safety.

If this is your first craft, or you are changing to a type of craft you are not familiar with, for your own comfort and safety, please ensure that you obtain handling and operating experience before "assuming command" of the craft. Your dealer or national sailing federation or yacht club will be pleased to advise you of local sea schools, or competent instructors.

It's up to the user to judge if the weather condition consists with the CE-mark and that he/she is able to maneuver the boat. It's the user's responsibility to adjust the speed and direction of the craft to the sea condition.

Boats in category C shall manage wind force up to strong wind or squall, with risk for capricious waves and squall. Even if your boat are constructed for this category please beware that these type of weather could be dangerous and it takes a fit and skillful crew with a good maintained boat to operate in such weather.

This owners manual is not a detailed service or repair manual. In case of mechanical trouble please contact your representative Linder Aluminiumboats dealer or contact Linder Aluminiumbåtar AB directly. Always use recommended workshop for maintenance, service and repair. Avoid modifications that affect the marine safety. Linder Aluminiumbåtar can not be hold responsible for modifications that not are written approval.

Please notice that you need license or power of attorney to operate this boat in some countries, some countries has it's own regulations for boating.

Always keep your Linder Aluminiumboat in good condition, observe the wear due to the age and wrongly use. Every boat can be damaged if they are wrongly used no matter how durable the product is. That type of using is no good seamanship. Always adjust the speed and direction of the craft to sea conditions.

Always use approved lifejacket, in some counties are you obligated to use lifejacket. Before you start your trip we do recommend the crew to be well informed about the safety, such as man over board, risk of fire, personal injuries and towing.

Please keep this manual in a safe place, and hand it over to the new owner if you sell the craft. This manual has been translated into a language acceptable in the country where the boat is to be sold.

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Certificate of Type Approval

Linder Aluminiumbåtar AB produces according to a certificated quality management system in line with the Recreational Craft Directive module D.

The Linder 460 Arkip is provided with CIN-code and is also security marked with micro dots (Securmark*). It is safety approved according to Det Norske Veritas.

The 460 Arkip is CE-marked in compliance with boat design category C. Coastal waters and inshore waters: boat designed for trips close to shore, in large bay areas, river deltas, lakes and rivers where wind forces can reach up to 6 on the Beaufort scale (10.8 to 13.8 m/s) and with significant waves of up to and including 2 metres.

* Securmark is one of the best systems in Scandinavia for the security marking of boats. There are small microdots with an individual ID number hidden on several parts of the hull. www.securmark.no

All costs for the registration of the security marking are already paid by the manufacture. You have to register your boat by internet or fill in the form which comes with the boat.

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Technical Data

Length (LH):460 cm (15.1 ft)
Width (BH): 185 cm (6.1 ft)
Weight with steering console: 274 kg (604 lb)
Weight with max engine weight (mLCC): 415 kg (915 lb)
Max engine weight: 121 kg (267 lb)
Max load cap (mMTL): 525 kg (1157 lb)
Max. total weight (mLDC): 940 kg (2072 lb)
Max. weight with transport on trailer (mT): ... 490 kg (1079 lb)
Max number persons: 5
Depth of hull: 80 cm (31.5 in)
Max power: 37 kW (50 hp)
Rec power: 37 kW (50 hp)
Outboard length: long
Hull thickness: 2.4 mm (0.094 in)

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The following abbreviations are used to highlight important information.

The following abbreviations are used to highlight important information.

(D) = Danger Means that a serious built in risk exists, with great probability of serious injury, if you are not careful enough.

(W) = Warning Means a risk that can lead to injury, if correct precaution is not observed.

(C) = Caution Means precaution must be exercised, or attention must be paid to the fact that unsuitable handling can cause personal injury or damage to the boat, damage to components or harm the environment.

Explanation of symbols to be found on the blue plate on the boat:

Declares max. no of persons

Declares max. loading capacity (person, luggage, fuel and engine)

Declares max. engine power

Identification number (CIN-code)

The boat has two identical numbers (14 digits) engraved in the hull. One is easily visible on the outside of transom stern on the starboard side, while the other one is well concealed in the boat.

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Storage for winter

When storing the boat on land, you should make sure to provide adequate ventilation. Avoid covering the boat with tight closing plastic film or anything else of that kind. The battery can only be left on board if it is fully charged. A low-charged battery can be damaged if it freezes. The ideal solution is to keep the battery on maintenance charge. Refer to the engine operating instructions (C). Make sure that you have bilge all the water from the boat before storage for winter, if not you have a risk of frost damage.

Painting

If you keeping the boat in water where marine growths occur on the hull or if you suspect that there is pollution in the water, the bottom can be cleaned and a coat of anti-fouling paint applied. (refer to the waterline drawing on page 30). A correct anti-fouling will protect you Linder Aluminiumboat from marine

growths and possible damages due the pollutions from the water. Your nearest paint or boat dealer will provide you with all the information necessary for painting aluminium boats. Never use alkalicolours containing copper, lead or quicksilver. The combination with aluminium can cause galvanic currents with corrosion as a consequence (C).

Cleaning

When cleaning, rinse with clean water and use a sponge. If necessary, a mild detergent can be used. A high pressure washer can also be used (protect the seat pads). The boat has in production been applied with a layer of Alu-Protect (paraffin oil) on the outside hull. The boat will oxidate. The material build its own natural protecting surface, an oxide layer, which is not recommendable to remove by polish.

Mooring

There are four bollards fitted to the toe rail. There are 2 lock/mooring rings, one in the stern and one in the rear of the boat, all of which are approved according to insurance category 3.

Repairs

Contact your dealer for advice for repairs that you can carry out by yourself. Larger repairs should preferably be carried out by professionals (C).

Modifications

Contact your dealer for information of the possibilities and, above all, for recommendations of what you should not do! You could endanger your own safety and lose your warranty! (D).

Floation

Foam buoyancy is located in the seat benches and the stern bulkhead and should not, under any circumstances, be removed! This will cause the boat to lose its ability to float level (D).

Fitting a motor

Only CE-marked motors meeting the requirements of ISO11547 may be fitted. Engine mounting washers have been supplied with the boat, and these need to be utilised when fitting the engine.

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Mounting accessories

Any extra equipment or accessories must be fitted to the boat using acid-proof, stainless steel or aluminium brackets and screws. Copper, brass or incorrect brackets can cause galvanic corrosion (C). Pressure-creosoted wooden floor boards can cause corrosive damage to the boat (C). Do not use any treatment to the wooden floor board, which can affect the aluminium negatively.

Automatic bilge pump

The boat is equipped with an automatic bilge pump. Check periodically the function on the bilge pump. A handoperated bilge pump is also fitted in case the electrical power should fail. If the bilge pump valve needs to be cleaned, can you go through the inspection hatch. The upper section of the bilge pump is lifted out by pressing the snap lock fittings together. Reassemble the valve in reverse order.

Manoeuvre ability, fire protection, non start device

Do not equip or use an engine with higher power than is stated on the blue plate in the boat (W). Do not drive the boat at high speed in heavily trafficed waters or in weather conditions involving reduced sight or high seas. Breaking waves makes a high security risk. Respect and obey speed restrictions and other traffic regulations. Follow international searoute rules (COLREGS) and national traffic instructions.

Loading (W)

Do not exceed the maximum loading capacity for this boat. Refer to the specification table in this manual or the manufacturer's plate on the boat for the maximum load capacity of the boat. Distribute the load evenly in

the boat to help counterbalance the weight of the outboard. Avoid a high placement of heavy items. Secure the load well. Never exceed the approved number of people in the boat. For your own comfort and safety, lower the speed in bad weather.

Safety contact

Safety contact must be used (D).

Safety

Always make sure, prior to each boat trip, that it is fitted with all necessary safety equipment, such as an anchor, rope, paddles, etc. Avoid standing up and be sure to wear your life jacket (W)! Do not fill the petrol tank when the motor is running (W). Do not smoke when handling fuel (D). Read the operator's handbook for the motor regarding correct handling when starting by hand. The motor must always be supplied with a built in stop which makes the motor impossible to start when the shift is in gear.

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Transportation on trailer

Make sure that the center rollers on the trailer support all the weight of the boat on the keel. Adjust the side supporters to eliminate all movement of the boat. Do not forget to secure the boat with appropriate straps. Make sure the boat is empty during transportation (C). When trailing the boat with drivable cover (not harbor cover) max speed is 30 km/h.

Environment

By filling up the fuel, avoid fuel waste. A running engine releases exhaust gases that can have a detrimental effect on the environment. Reduce speed and surges out of regard for people's security and comfort. Your Linder is produced in recyclable material that you get paid for when the boat has made the last trip. The material can be recycling time after time! The amount of aluminum is approx 90% of the boat weight. You don't have to disassemble the boat, just leave it to the recycle company.

If you fall overboard

Use the ladder at the stern of the boat to climb back into the boat. NOTE! The engine must be shut down (D).

Regular service checks (C)

- bilge pump
- battery
- steering system
- tank and fuel pipe
- fire extinguisher

Fire protection

Do not block access to the portable fire extinguisher in the stow compartment. Smoking is prohibited whenever fuels are being handled. Do not block or prevent ventilation of the space surrounding the fuel tank. Keep the keelson clean by removing the stow box (refer to page 33) and check regularly for signs of fuel leakage or gas vapours (W).

Fire-extinguishing equipment

The fire extinguisher is stored in the stow compartment on the left (port side) side of the boat and is clearly labelled with a sign. Please refer to the outline drawing on Page 33. To use: Remove the pin in the handle, point the hose towards the bottom of the flames and press down the handle. In the case of fire outbreak in the area surrounding the fuel tank, insert the hose into the Fireport and press down the handle. Service maintenance according to details on the fire extinguisher. Fire extinguisher capacity: 13A 89B C.

Electrical system

Electrical system is powered by 12V current. The main power switch is located close to the fuel tank. Please also refer to the outline drawing on Page 33. The battery has to be stored in the box provided. Refer also to the wiring diagram on Page 31. The main power switch only isolates the 12V socket & navigation lights and does not affect the bilge pump.

Service (electrical system)

It is important to treat the battery with care if all electrical equipment is to operate as expected. Check battery levels regularly to make sure that it maintains the correct level (C). Smoking is prohibited when servicing the battery as it emits an explosive gas (W), when charging. Use distilled water when topping up the battery.

Corrosion

Prevent metal items, iron, copper, brass or similar metals from remaining in contact with aluminium surfaces on the boat for more than necessary, as this will reduce levels of corrosion (C).

Information of electrical bilge pump and main power switch

Linder 460 Arkip is fitted with an automatic bilge pump and main power switch. From the year model -08 the positions AUT and MAN are in the panel.

Position AUT

In normal position the bilge pump is in AUT position and the bilge pump bail the boat automatically if needed. Always make sure that there is sufficient power in the battery.

Position MAN

In position MAN the pump is operated manually.

If the bilge pump does not work

The boat is equipped with an automatic electric bilge pump, which requires occasional checking. Always make sure there is sufficient charge in the battery (C).

If the bilge pump does not work, please check the following;

- The battery is fully charged and connected
- The fuse has not blown
- The filter to the pump is clean and free from debris
- The wiring to the pump and switch is intact

If the pump fails and the boat fills with water, it may overrun the battery, which will short out the electrical system and may cause galvanic corrosion to the boat. The bilge pump is not meant to be able to bilge the boat after a hull damage. The pumps capacity is max 38 l/min.

Waterline

The waterline is marked with maximum weight of the engine (see technical data page 24)

Wiring diagram

Navigation lighting

Bilge pump

Battery

Power socket

Upper navigation lighting

Side lighting

Bilge pump

Notice: There must be a battery box for the battery, if it is stored in the stow compartment. Battery capacity max. 75 Ah.

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Switch panel

Main switch with fuse

1 Fuse for main switch

2 Fuse for bilge pump

3 Main switch

Switch panel with power outlet 12v

4 Switch for bilge pump

5 Switch for navigation lights

6 Power outlet 12v

Fuses

7 Fuse power outlet 12v

8 Fuse navigation light

9 Spare fuse

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Outline drawing

1 Main power switch including fuses (main power and bilge pump)

2 Battery

3 Fuel tank compartment

4 Navigation lights

5 Steering cable (L=2,70 m)

6 Automatic bilge pump

7 Switch panel with power outlet 12v

8 Fuses

9 Fireport

10 Lock and mooring rings

11 Bollards

- 12 Bathing/rescue ladder
- 13 Hull opening
- 14 Fire extinguisher
- 15 Inspection hatch

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Declaration of Conformity
 Recreational Craft directive 94/25/EG and 2003/44/EG

Name of manufacturer: Linder Aluminiumbåtar AB
 Address: Kanotleden 5
 Post Code: SE-362 32
 Town: Tingsryd Country: Sweden
 Notified body: DNV (Det Norske Veritas)
 Address: Veritasvein 1
 Post Code: NO 1322
 Town: Høvik
 Country: Norway
 ID Number: 0575
 EG type-examination
 Certificate number: RCD-B-233
 Date (yr/mo/day): 2007-01-30
 Conduct of certification: B + D

Description of craft
 Craft Identification Number (CIN):

Brand name of the craft: Linder Type: ARKIP 460

Type of craft:
 sailboat motorboat inflatable
 other (specify):

Type of hull:
 monohull multihull
 other (specify):

Construction material:
 aluminium, aluminium alloys
 plastic, fiber reinforced plastic
 steel, steel alloys
 wood
 other (specify):

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Maximum design category: C D A B x
 Max. recommended engine power: 37 kW
 Length of hull Lh: 4,60 m Beam of hull Bh: 1,85 m

Type of main propulsion:

	sails	x	petrol engine	diesel engine
	electric motor			oars
Type of engine:	other (specify):			
x	outboard		inboard	
	other (specify):			
Deck:	fully decked		partly deckedx	open
	other (specify):			

This declaration of conformity is issued under the sole responsibility of the manufacturer. I declare on behalf of the craft manufacturer that the craft mentioned above complies with all applicable essential requirements in the way specified and is in conformity with the type for which above mentioned EC type examination certificate has been issued.

Signature:

Clarification of signature: Lars-Göran Linder Date (yr/mo/day): 2014-02-01

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Essential requirements (reference to relevant articles in Annex IA & IC of the Directive)

Standards

Other normative document/methods

Please specify in more detail (*Mandatory Standards)

General requirements

- Craft identification Number – CIN
- Builder’s Plate
- Protection from falling overboard and means of reboarding
- Visibility from the main steering position
- Owner’s manual

Integrity and structural requirements

- Structure
- Stability and freeboard
- Buoancy and floatation
- Openings in hull, deck and superstructure
- Flooding
- Manufacturer’s maximum recommended load
- Anchoring, mooring and towing

Handling characteristics

Electrical systems

Steering systems

- General – steering system

Fire protection

- General – fire protection
- Fire-fighting equipment

Navigation lights

WARRANTY (To be filled in by the dealer)

Linder Aluminiumbåtar are covered by a 3 year warranty, concerning faults which can be attributed to production and/or defects in the material.

Your dealers stamp:
(To be used outside Sweden)

Buyers name:
Address:
The boats Id.no.:
Dealers Signature and date:

Dealer

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