User manual

ETM-TEC Azure 36/50/60/86
ETM-TEC Carp 60

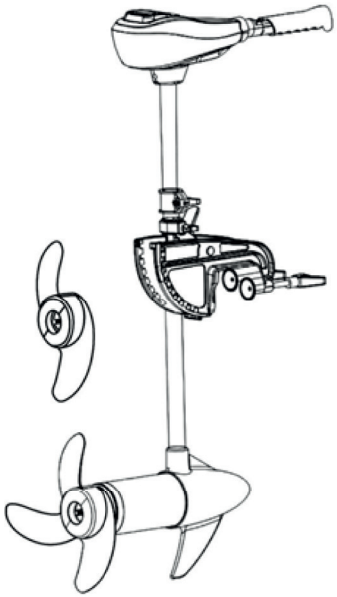


Table of contents

2. Preface

Congratulations with your purchase of your ETM-TEC Azure or Carp trolling motor.
The ETC-TEM trolling motors are part of the range of trolling motors distributed by Tradekar Benelux B.V.

ETM-TEC motors are quality products, designed for excellent performance at a good price. These trolling motors are easy to use, require little maintenance and have little impact on the environment!

The manual contains important information regarding the correct installation, operation and maintenance of your trolling motor.

3. Responsibilities regarding this manual

Any person who assembles, cleans or trades their trolling motor is deemed to have read and understood the entire content of this manual.

In case of doubt or questions, always contact your dealer or contact us using the details below.

ADVICE!
Keep this manual in a safe place and within reach. When selling or lending out the trolling motor, also give these operating instructions.

Helpdesk and Support

Dial: 0345-470998 (Monday up to Friday 8:30-12:30)
E-mail: service@tradekar.com

4. Safety instructions – Explanation of the categories

In this manual, the safety instructions are divided into the following categories:

WARNING!
Personal injury is possible: indication with the word WARNING! warns of a possible danger. Failure to avoid this hazard could result in personal injury.

CAUTION!
Personal injury or material damage is possible: indication with the word CAUTION! warns of a possible imminent danger. If this hazard is not avoided, minor injury is possible. The product or anything else in the immediate reach can be seriously damaged.

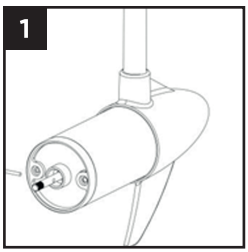
PAY ATTENTION!
The occurrence of damage is possible: indication with the words PAY ATTENTION! warns for a potential problem. If this situation is not avoided, the product of something else in the immediate reach could be damaged.

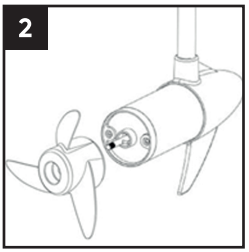
ADVICE!
Other advice: Handy tip. Facilitates the use or installation of the product or aims to achieve a better understanding.

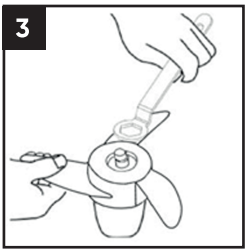
A repeatedly used safety symbol is not a substitute for this safety statement. Therefore, read the safety instructions first and follow them exactly.

5. Assembling the boat rotor

CAUTION!
Make sure the motor is not connected to the battery when installing or replacing the boat rotor.







Place the shear pin in the appropriate hole within the drive shaft (1). Place the boat rotor on the drive shaft so that the shear pin engages in the slot in the back of the screw (2). When the screw is in place, install the stainless steel washer and locknut on the shaft.

Use the supplied wrench or a socket wrench to tighten the screw (3). The use of non/poorly fitting tools can cause damage to the engine. Hold the propeller blade by hand to prevent the propeller from spinning and use the wrench to tighten the nut.

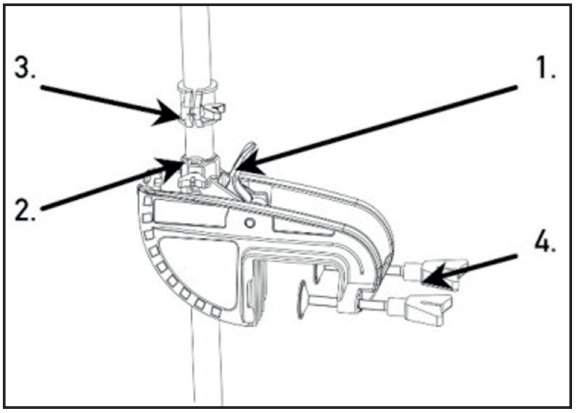
Turn the nut a quarter turn after you feel a slight resistance. Do not overtighten the nut; this can damage the screw.

To disassemble or replace the screw, perform the above operations in reverse order.

CAUTION!
If the screw is difficult to remove, press one blade of the screw with one hand and gently tap another blade of the screw with a rubber mallet. Do not use an iron hammer for this!

6. Mounting the engine on the boat

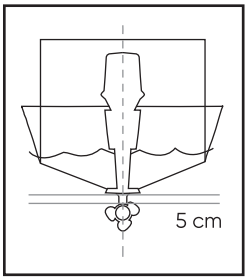
6.1 Transom clamp screws
The transom clamp screws (4) allow for easy attachment of the motor to the transom of the boat. Carefully place the motor on the transom of the boat, then tighten the transom clamp screws securely.



6.2 Tilt lever
The engine can tilt. This allows you to ensure that the engine is perpendicular to the water surface (the preferred position) for sailing. But the tilt can also be used when sailing in shallow water or when you encounter obstacles. To tilt the motor, press the tilt lever (1), you can now tilt the motor into the desired position. By releasing the tilt lever you lock the motor in this position.

6.3 Set steering resistance
To adjust the steering resistance, simply tighten or loosen the rotary knob (3) on the front of the mount.

6.4 Set tail length
The depth of the motor can be adjusted up and down by means of the tail length lock. To adjust the tail length, turn the rotary knob (2) all the way. This is the bottom screw above the engine bracket. Make sure you hold the motor bracket firmly while adjusting. You can then loosen the tail length lock screw (top screw). The tail length is now infinitely adjustable.
When you have adjusted the tail to the correct height, tighten the screw knob of the tail length lock. By loosening the steering resistance screw a few turns, you can steer the motor again.
The ideal tail length is when the top blade of the propeller is just lower than the bottom / keel of your boat. However, the propeller should protrude at least 5cm below the bottom of the boat.

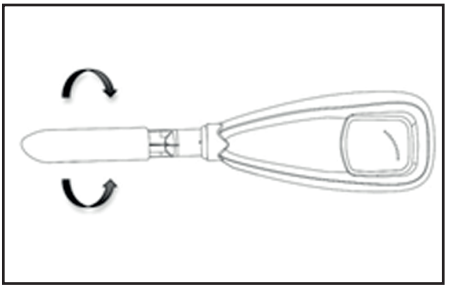


7. Connecting the motor

7.1 Connecting the connection cable to the battery and motor
Press the Anderson plug of the connection cable into the plug of the battery cable on the engine. There is only one way to do this! Plus (+) to plus (+) and minus (-) to minus (-).
To disconnect the Anderson connector, pull gently on both connectors, never on the cables. This can lead to poor contact and malfunction. Place the supplied Maxi fuse firmly between the metal clips in the fuse holder and close the cover.

ADVICE!
Make sure you always have one or more spare fuses of the correct Amperage (A) with you.

7.2 Connecting AGM or Deep Cycle battery
Make sure the engine is off, the steering lever must be in position 0. Remove the red and black protective caps from the battery terminals. Place the (quick) clamps on the battery terminals, red on the positive terminal (+) and black on the negative terminal (-) of the battery. By clicking the hood of the quick clamps up, you can easily slide the clamps over the poles and the press them to close. Make sure the clamps are pushed all the way down for optimal contact with the battery terminals.



7.3 Connecting lithium-ion battery
Make sure the engine is off, the steering lever must be in position 0. Place the (quick) clamps on the battery terminals, red on the positive terminal (+) and black on the negative terminal (-) of the battery. By clicking the hood of the quick clamps up, you can easily slide the clamps over the poles and then press the clamps to close.

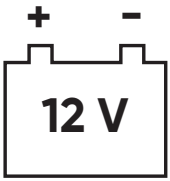
PAY ATTENTION!
Only use suitable batteries, preferably a Lithium-Ion, Deep-cycle or AGM battery. Using the wrong battery can damage the engine. Place the battery in a suitable battery box. Suitable parts such as quick clamps, batteries and battery boxes are available for purchase at Fluistermotor.nl or consult your dealer.

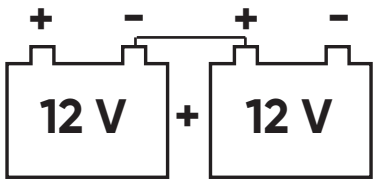
7.4 Connecting batteries 24 V (Azure 86 lbs.)
The type ETM-TEC Azure 86 works on 24 Volt. For this you need to connect two 12 V batteries in series. This is done by means of the specific cable supplied (article F10533). Make sure the engine is off, the steering lever must be in position 0. Connect the red quick clamps (+) to the free (+) pole of the 1st battery. Connect the blue (-) quick clamp to the free negative (-) or ground terminal of the 2nd battery. Make sure that the terminals of the cables make contact with the terminals of the batteries. Both batteries must be placed in the appropriate battery boxes. These battery boxes are available in different sizes. Inquire at your dealer or at Fluistermotor.nl

8. Directions for use

8.1 Battery indicator
Your trolling motor has a display on the top with LED lights on which the charge level of the battery can be read. When the battery is fully charged, all ten LED lights light up. During use, depending on the sailing time and use, fewer LED lights will light up. When the last 3 green LED lights (20%) are still lit, the battery(s) must be charged. If the battery voltage is too low, the motor will become less powerful or may stop completely. Therefore, always charge the batteries optimally.

8.2 Wiring and battery recommendations
Recommended batteries: 12 Volt Deep-cycle, AGM or Lithium-Ion battery. The battery should be at least 60 Ah or higher for optimal operation. In order to have more capacity and thus extend the sailing time, you can choose for a heavier battery. For the lighter motor types, a 75 Ah battery (AGM or Deep-cycle) is sufficient, for heavier motor types from 50 lbs we recommend a 105 Ah (AGM or Deep Cycle) capacity or higher. A lithium 75 Ah (ETM Energy) can also be used here. Despite the light weight, it can easily be compared with a 105 Ah in terms of power.
Be aware! **An ETM-TEC 86 lbs motor runs of 24V. For this you need 2 pieces of 12 V 105Ah batteries.**





8.3 Position switch
The ETM-TEC Azure and Carp trolly motor has 5 positions forward (Forward) and 3 position backwards (Reverse). When sailing, it is very important that you use the position switch correctly.

8.4 Steering lever
The steering lever is telescopically adjustable. To do this, gently pull the handle so that it slides out to the desired length.

PAY ATTENTION!
For the lifespan and warranty on the interior, we strongly recommend that you switch the different positions step by step and not in one movement. This also applies to switching between forward and backward.

It is recommended not to sail permanently in step 5. Use this position briefly for a quick maneuver or to overtake (maximum 10 minutes) and then set the multiple switch back to, for example, position 4.

ADVICE!
Do not run the engine at the same speed for an extended period of time. After 30 minutes of use, it is recommended to select a different speed or switch off the engine for 10 minutes.

8.5 Advice for use and maintenance

- ☑ Regularly check the propeller for damage, fishing line and/or debris that may get stuck in the propeller.
- ☑ If the boat rotor is damaged, replace it with a new one as soon as possible. A damaged propeller can lead to reduced performance of the trolly motor.
- ☑ Regularly check and lubricate the accessible rotating parts with the correct lubricants intended for this purpose.
- ☑ Check if the battery clamps are firmly attached to the battery terminals.
- ☑ Check that there are no breaks or open parts on the connection cable.
- ☑ To prevent corrosion of the motor, rinse the tailpiece of the trolly motor well with clean (fresh) water after use.
- ☑ After use, store the engine in a dry, well-ventilated and frost-free location.

9. Maintenance and specifications

9.1 Maintenance of the battery
AGM, Deep Cycle and Lithium batteries are maintenance-free and suitable for long periods of non-use. We recommend removing the battery from the boat in winter and storing it in a dry and frost-free location. Always charge the batteries as best as possible after use and preferably use a charger with a trickle charging function. (eg. ETM-TEC article number F10520). With a fast charger, it is recommended to put the battery under charge every 4 to 6 weeks.

Preferably use a charger of at least 7 Ah. With a lighter charge capacity, the battery may not be fully charged. This can reduce the battery capacity and shorten its lifespan. Follow the manufacturer's instruction for use.

Do you have a lithium battery? Make sure you use a suitable charger. For the ETM-Energy this is the 10 Ampere LMC10A charger.

9.2 Removal
For destruction, the regulations of the local authorities must be observed. Also dispose of the packaging sorted by the various materials used in the appropriate waste containers. For more information, please contact the municipal waste company.

9.3 Technical specifications

Model	Stuwkracht LBS*	Schacht lengte cm	Spanning Volt**	Amp. Ah	Vermogen Watt	Gewicht Kg
Azure 36	36	76 CM	12	29,5	354	7,3
Azure 50	50	92 CM	12	47,0	564	8,7
Azure 50 kort	50	72 CM	12	47,0	564	8,7
Azure/Carp 60	60	92 CM	12	57,0	684	9,7
Azure 60 kort	60	72 CM	12	57,0	684	9,7
Azure 86	86	92 CM	24	48,5	1164	10,3

***Lbs:** plural of Libra pound. Lbs stands for thrust in pounds.*
Advice is to use for every 20 Kg. displacement 1 lbs of thrust.
So with a boat of 600 Kg. and 2 people of 80 Kg, a total of 760 Kg.: 20 = 38 lbs.

****Volt:** the offered voltage may deviate +10% from the recommended voltage.*
For 12V this means a minimum of 10.8V and a maximum of 13.2V
For 24V this means a minimum of 21.6V and a maximum of 26.4V
A lower or higher voltage can affect the functioning of the motor and/or permanently damage the electronics of the motor.

10. Problem solutions

10.1 Motor does not run or has insufficient power.

- ☑ Check if the battery is connected correctly.
- ☑ Check if the terminals of the cables make sufficient contact with the battery terminals and that they are free of corrosion.
- ☑ Check whether the battery is sufficiently charged.
- ☑ Check the propeller shaft for contamination. If contamination is present, such as aquatic plants or fishing line, remove it carefully and disassemble the screw if necessary. See chapter 5 in this manual.

10.2 The motor does not run

- ☑ Check the connections to the battery for corrosion and correct placement. (red clip on the (+) terminal and blue clip on the (-) terminal of the battery)
- ☑ Check whether the battery is sufficiently charged.
- ☑ Check if the fuse has not blown. Always replace this fuse with an equivalent one.
- ☑ Check if the screw is not blocked. Pay attention! When checking the screw, always disconnect the motor from the battery.

10.3 Steering the motor is difficult

- ☑ Loosen the steering resistance adjustment. See chapter 6.3 of this manual.
- ☑ Make sure that the tail length of the engine is set to the correct height and check whether the water has sufficient depth.

10.4 Maintenance of the motor

- ☑ The ETM-TEC trolly motor is suitable for use in fresh water.
- ☑ To prevent corrosion of the motor and/or parts, always rinse the underside of the motor, bracket and screw well with clean (fresh) water after use.
- ☑ Avoid the top of the motor! Never completely submerge the motor in water.
- ☑ Clean the screw after each use and remove all deposits and dirt from around the screw.
- ☑ Dry all parts thoroughly and store the engine in a well-ventilated and dry location.

ETM-TEC is part of Tradekar Benelux BV

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