

Thank you very much for your cooperation, the Torqeedo Service

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A list of Certified Service Centres can be found under www.torqeedo.com, Service Center

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A list of Certified Service Centers can be found under www.torqeedo.com, Service Center

Dear customer,

We are delighted that you have chosen our outboard. Your Torqeedo Travel outboard motor is state-of-the-art in terms of motor-, battery-, and propeller-technology. It has been designed and manufactured with the utmost care and with a special focus on comfort, user-friendliness and safety, then comprehensively tested before delivery.

Please take the time to read this operating manual carefully so that you can use the motor properly and enjoy it for a long time.

We hope you have a lot of fun on the water with your Torqeedo Travel.

Your Torqeedo Team

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1. Important safety and operating instructions



DANGER

This symbol warns about the risk of injury to yourself or others.

Torqeedo motors are designed to operate safely and reliably as long as they are used according to the operating manual. Please read this manual carefully before you start the motor. Ignoring these instructions can cause property damage or personal injury. Torqeedo accepts no liability for any damage caused by actions that contradict this operating manual.

To ensure safe operation of the motor:

- Check the status and function of the outboard motor before each use.
- The magnetic kill switch stops the motor immediately. The propeller then comes to a stop. You can only start the motor again if you first replace the magnetic key and then move the tiller handle to the central position (stop position).
- Please note that the GPS-based range calculation is subject to constant currents and winds. Changes to the direction of travel, currents, and wind directions may significantly affect the displayed remaining range.
- If you are running the motor at full throttle in high ambient temperatures, the motor may reduce speed automatically to reduce battery temperature. A blinking thermometer in the display informs about this operation (temperature protection mode).

- Familiarize yourself with all the motor controls. For instance, you should be able to stop the motor quickly if necessary.
- Only allow adults who have been instructed on how to operate the motor to run it.
- Follow the boat manufacturer's instructions on the permissible motorization of your boat. Do not exceed the capacity limits.
- Stop the motor immediately if someone goes overboard.
- Never operate the motor if someone is in the water close to the boat.
- Do not open the battery casing; protect the battery pack from mechanical damage. If the battery casing is damaged:
 - Do not use or charge the battery any more, there is a risk of fire.
 - Avoid contact with potentially exposed electrolyte or powder from inside the battery. If you get in contact with electrolyte or powder on the skin or in the eyes, flush thoroughly with fresh water. Then seek medical assistance.
 - Contact a Torqeedo Service Center for disposal instructions.
- Only charge the battery on non-flammable ground under adult supervision.
- Only charge the battery at environmental temperatures between 0°C and 45°C (between 32°F and 113°F).
- Please note that since 2009 lithium batteries with a capacity of >100 Wh may no longer be carried as luggage in passenger planes (neither as hand luggage nor in the hold).
The battery supplied with this product exceeds this threshold and may therefore not be transported in passenger planes.
- The battery of your Travel motor has been classified hazardous material according to UN Class 9. If you ship batteries with transportation companies, use original packaging with respective warning labels. Private transportation is not affected by regulation. Ensure that the battery is stored in a way that the battery casing is not damaged during transport.
- In addition to these selected warnings, please comply with the complete operating manual.



CAUTION

This symbol warns about the risk of damage to or by your outboard motor.

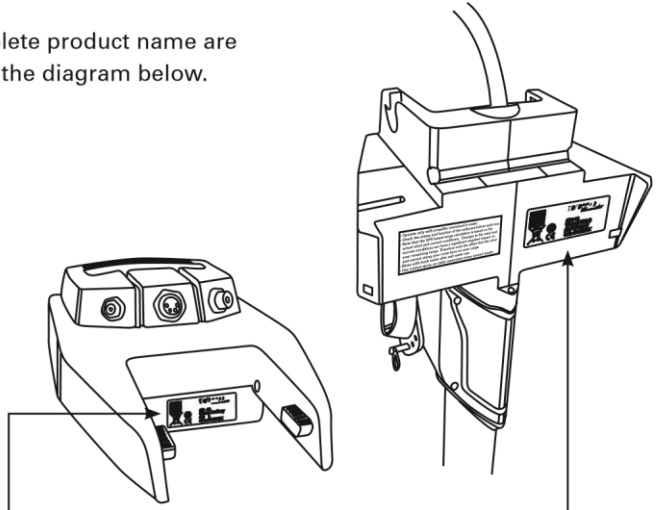
There follows a selection of the most important instructions for handling Torqeedo Travel motors. Apart from these instructions, please observe the complete operating manual to prevent damage to or by your motor.

- Only run the motor when the propeller is under water. If it is run in the air for longer periods, the shaft sealant rings that seal the motor to the drive shaft may become damaged.
- The Travel 503/1003 models are protected against dirt and water to protection type IP67 (DIN ISO 60529) (30 minutes under water at a depth of 1 meter).
- After use, always take the motor out of the water. The tilt mechanism can be used for this.
- After operation in salty or brackish water, wash all components in fresh water.
- Use contact spray to care for all electronic contacts every two months.
- Except when charging the charging socket must always be covered. To do so please use the flap fixed to the socket.
- You extend the lifespan of your battery if you do not expose it to hot environments for longer than necessary.
- Comply with the following rules if you are storing your battery for a longer period of time. Storage for around six months: Charging level when stored 50%. Storage for a whole year: Charging level when stored 100%. If the battery is to be stored for several years the charging level should be checked once a year in order to prevent the battery from deep discharging.
- If the motor has malfunctions an error code is shown on the display. After resolving the error the motor can be restarted again from the stop-position of the tiller. Depending on the error code displayed it may be necessary to switch the motor off using the "on/off" button on the tiller. You find descriptions and details in the "Error messages/trouble shooting" chapter in this operating manual.
- Do not leave the motor in the water when the boat is moved by other drives (e.g. while sailing, towing the boat) to prevent damage to the electronics.
- Fully charge the equipment before the first use in order to calibrate the charge level indicator.
- Bei Fremdantrieb (Schleppen des Bootes, Segeln, Fahrt unter anderem Motor) ist der Propeller aus dem Wasser zu nehmen um Schäden an der Elektronik zu vermeiden.

2. Information required by law

2.1 Identification and technical data

The name plates with the complete product name are found at the locations stated in the diagram below.






TORQUEEDO
STARNBERG.GERMANY



114X-00 Spare Battery
S.Nr. 15303197A114X-00-6
29,6 V / xx Ah / xxx Wh / x,x kg
Manufactured 2016 by Torqeedo GmbH
Friedrichshafener Str. 4a, D-82205 Gilching



TORQUEEDO
STARNBERG.GERMANY

114X-00 Travel 503/1003 X
S.Nr. 12121212A114X-00-1
29,6 V / 500/1000 W / xx kg
Manufactured 2016 by Torqeedo GmbH
Friedrichshafener Str. 4a, D-82205 Gilching

Explanation and description of symbols



Magnetic field
manual



Read operating
carefully



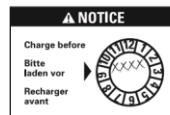
Keep away from pacemakers and Date for
inspection or other medical implants – min.
20 in.



disposal
50 cm /



Keep away from magnetic cards (e.g.
be complecredits cards) and other magnetic
recharged not later formation media – min. 50 cm / 20 in.
specified



Battery must
in- tely
than the date

on the packaging

Technical data

Name of model	Travel 503 S/L	Travel 1003 S/L	Travel 1003 CS/CL
Max. input power (in watt)	500	1.000	1.000
Max. propulsive power (in watt)	220	480	480
Max. overall efficiency (in %)	44	48	48
Comparable petrol outboard motor (propulsive power)	1.5 HP	3 HP	3 HP
Proper use for boats with total weight to (in tonnes)	0.8	1.5	1.5
Integral battery	320 Wh Li-Ion	530 Wh Li-Ion	915 Wh Li-Ion
Rated voltage (in volt)	29.6	29.6	29.6
Final charging voltage (in volt)	33.6	33.6	33.6
Final discharge voltage (in volt)	24.0	24.0	24.0
Operating/storage temperature	-20°C – +60°C	(-4°F – 140°F)	
Battery charging temperature	0°C – +45°C (32°F – 113°F)	0°C – +45°C (32°F – 113°F)	0°C – +45°C (32°F – 113°F)
Total weight	S: 12.7 kg (28.0 lbs) L: 13.3 kg (29.3 lbs)	S: 13.4 kg (29.5 lbs) L: 14.0 kg (30.9 lbs)	S: 14.4 kg (31.7 lbs) L: 15.0 kg (33.1 lbs)
Shaft length	S: 62.5 cm (24.6 in.) L: 75 cm (29.5 in.)		
Dimensions (L x W x H)	83.0 x 23.2 x 103.5(S) / 115.5 (L) cm (32.7 x 9.1 x 40.7 (S) / 45.5 (L) in.)		
Standard propeller (v = speed in km/h @ p = input power in watt)	v9/p790	v9/p790	v9/p790
Max. propeller revs (in rpm)	700	1,200	1,200
Trim stages	0°, 7°, 14°, 21°	0°, 7°, 14°, 21°	0°, 7°, 14°, 21°

Protective class IP67 [Ingress of water shall not be possible when the outboarding completely immersed in water (up to 1 m / 3 ft of immersion; for at least 30 min.)]

Yes

Yes

Yes

2.2 Conformity declaration

We herewith declare and confirm that the products designated in the following

1140-00 - Travel 503 S 1142-00 - Travel 1003 S 1149-00 Travel 1003 CS 1141-00 - Travel 503 L 1143-00 - Travel 1003 L 1150-00 Travel 1003 CL are in compliance with the material protection

requirements stipulated in the following directives:

- Directive **2006/42/EC** of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC (recast)

Applied harmonized standard:

- **EN ISO 12100:2010** - Safety of machinery - General principles of design - Risk assessment and risk reduction (ISO 12100:2010)

- Directive **2014/30/EU** of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility

Applied harmonized standards:

- **EN 61000-6-2:2005** - Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments (IEC 61000-6-2:2005)
- **EN 61000-6-3:2007** + **A1:2011** - Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments (IEC 61000-6-3:2006 + A1:2010)

Authorized person in charge of the documentation pursuant to Annex II Paragraph 1 Section A. No. 2, 2006/42/EC:

Last Name, First Name: Dankesreiter-Unterhinninghofen, Sylvia
Position in the manufacturer's company: Standards Compliance Manager

This declaration is valid for all specimens which are manufactured in accordance with the relevant production drawings which are an integral part of the technical documentation.

This declaration is made for an on behalf of the manufacturer Torqueedo GmbH.

Name: Torqueedo GmbH

Address: Fildersstraße 42, 82611 Gilching, Germany



Submitted by:

Last Name, First Name: Pliening, Ralf
Position in the manufacturer's company: Managing Director

Gilching, July 26th, 2016

Document: 203-00002
Month: Year: 09.2016

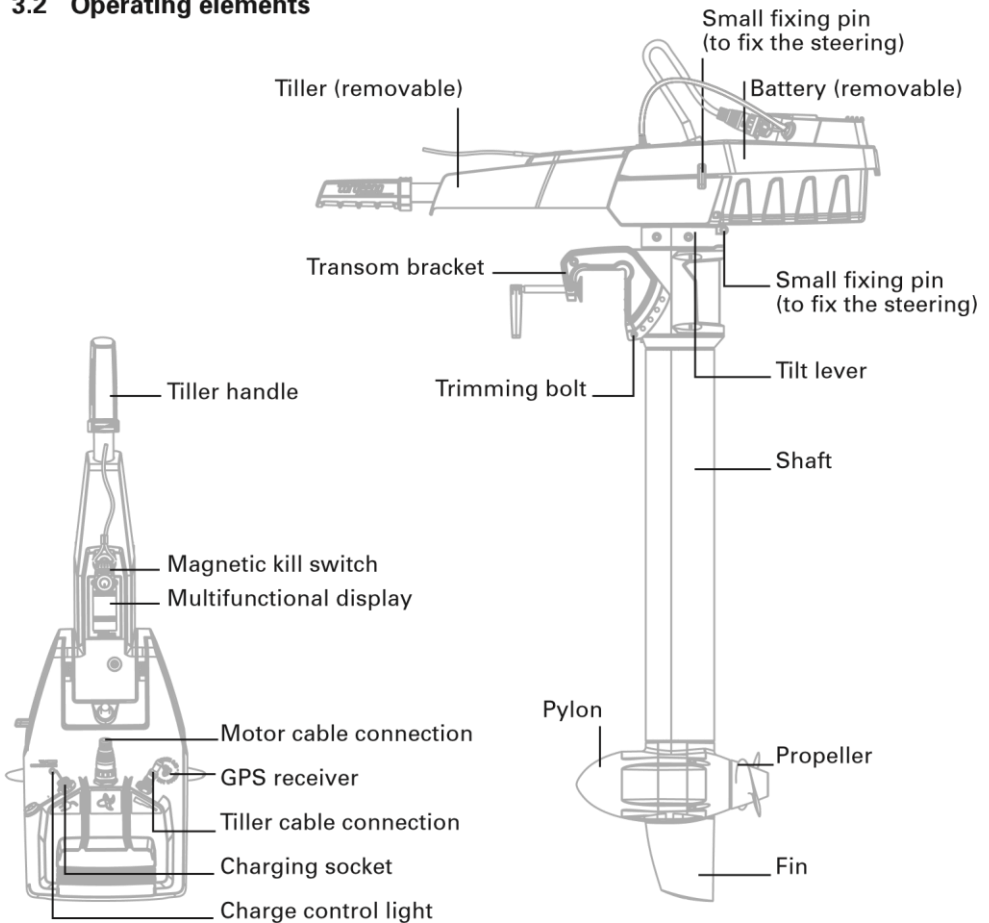
3. Equipment and operating elements

3.1 Delivery scope

The full supply scope of your Torqeedo Travel should include the following parts:

- Motor • Large fixing pin (to fix the battery)
- Battery • Charger incl. European and US mains cable
- Tiller • Operating manual
- Magnetic kill switch • Warranty certificate
- Small fixing pin (to fix the steering) • Packaging

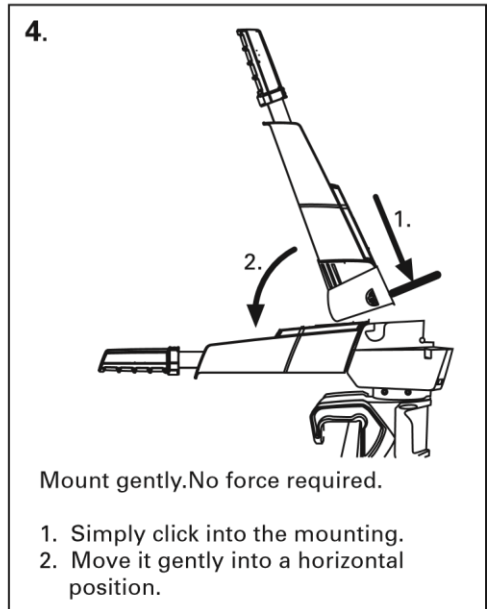
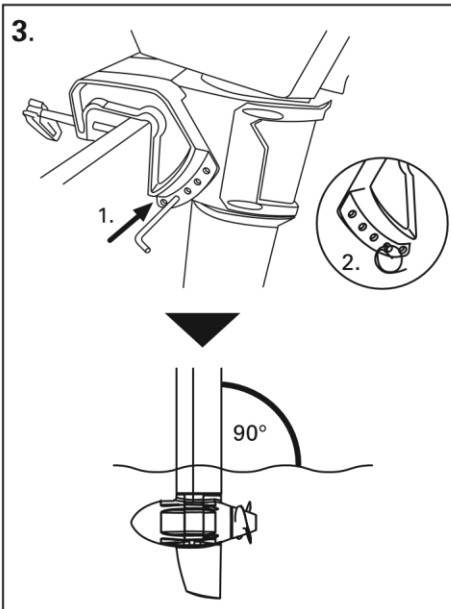
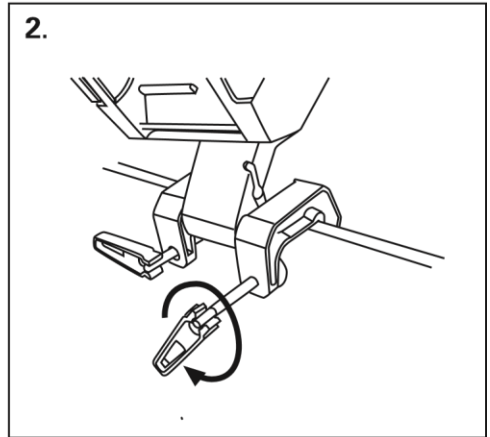
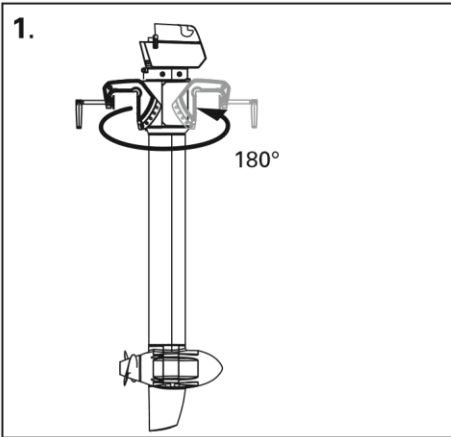
3.2 Operating elements



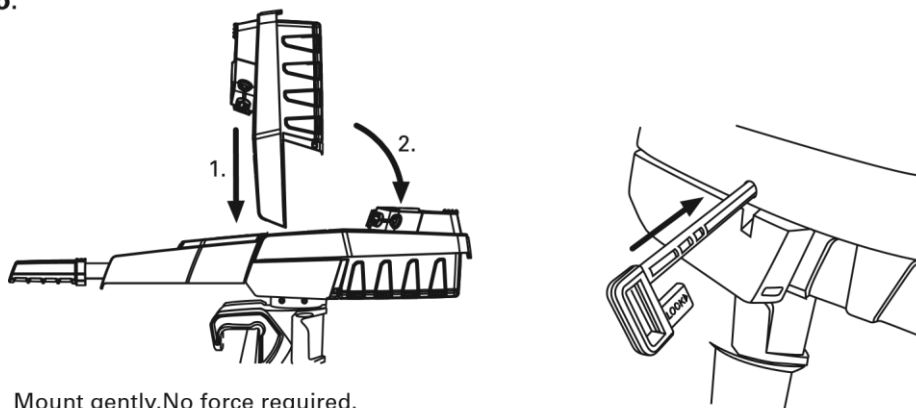
4. Starting up



- Keep proper footing and balance during mounting.
- Mount outboard first and tiller and battery afterwards (see fig. 4 and 5).
- Beware not to squash hands or fingers.



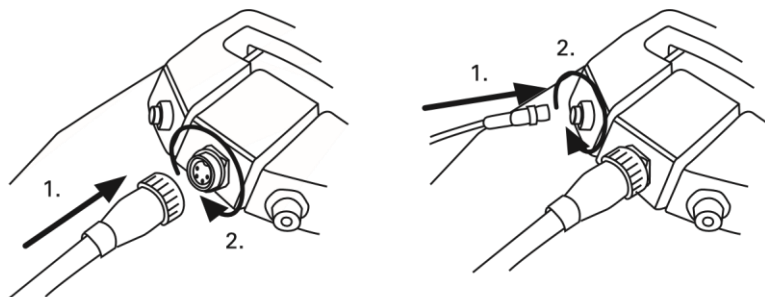
5.



Mount gently.No force required.

1. Allow it to slide into the mounting.
2. Move it slowly into a horizontal position.

6.

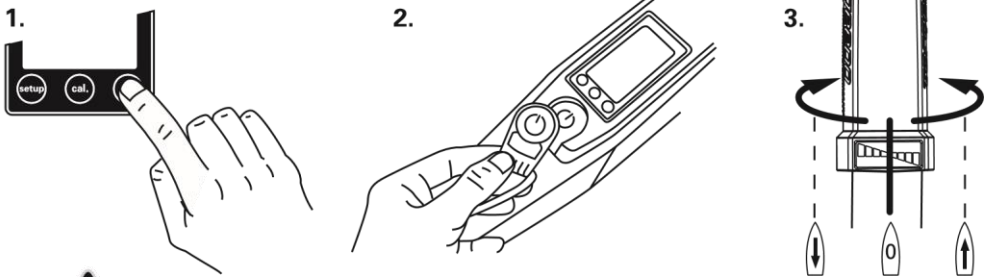


- When you are using the battery for the first time or after several months of storage, charge it up to 100% to calibrate the battery meter (charging the battery up to 99% is not sufficient for the calibration).
- Ensure that the cables are not squashed and damaged.
- Ensure that the cable connectors are seated properly into the cable receptacles, and do not cross thread the locking collars.

5. Operation

5.1 Normal operation

To start the motor, switch it on, apply the magnetic key and turn the tiller handle from the stop-position into the desired direction.



- The magnetic key may affect the operation of pacemakers. Keep the magnetic key away from pacemakers (at least 50 cm / 20 inches).
- The magnetic key may affect electronic and magnetic instruments (e.g. compass). Check whether instruments on board are affected before starting the journey.
- Tie the magnetic key to your wrist or your life vest to stop the motor if you should fall overboard.
- Check the function of the magnetic key before each trip.



The magnetic key may delete magnetic information media (especially credit and debit cards etc.). Keep the magnetic key away from credit cards and other magnetic information media.



5.2 Multifunctional display with beep

The tiller has an **integrated display or on-board computer** and three buttons. If you press the "on/off button" for 1 second you switch the motor on. Pressing the button again for 3 seconds switches the motor off again. You can switch the motor off in any operating mode. If there is no activity for one hour the motor switches off automatically. Press the button again to switch it back on.

Use the “setup” button to set the units for the display:





First you can select the units in which the remaining range is displayed. Press the “cal” button to switch between information in kilometers, statutory miles, nautical miles, and hours. You confirm your selection by pressing “setup” again.

You then enter the speed indicator setting. You can choose between kilometers per hour, miles per hour, and knots. The selection is made again by pressing the “cal” button. You confirm your selection by pressing “setup” again.

Finally you select the battery information displayed. You can choose between charge status in percent and voltage. Select the information to be displayed by pressing the “cal” button and confirm your choice by pressing the “setup” button again. By confirming you are leaving the setup menu.

The “cal” label on the middle button stands for “calibration”. If the display shows a relevant error message you can recalibrate the tiller with the aid of this button. For details please refer to the “Error messages/trouble shooting” chapter.

Sample message in normal operation:

 75%	Battery charge status in percent
 18.2 km	Remaining range at current speed
 7.2 km/h	Speed over ground
 273 w	Current consumption in Watt

Other messages:



Drive slowly: s displayed when the battery capacity is < 30%.

Charging: Is displayed when charging.



The GPS module integrated into the battery pack searches for satellite signals to determine the speed. If no GPS signal is received the display switches in the second field from “remaining range at current speed” (distance) to “remaining time at current speed” (time). In addition, a clock icon is displayed.

If the remaining run-time is more than 10 hours it is indicated in whole hours. If it is less it is shown in hours and minutes. The GPS-module stops searching for a signal if a signal is not detected within 5 minutes.



This icon is displayed if the tiller must be placed in the central position (stop position). This is necessary before starting off.



Is displayed if the motor or battery are too hot. In this case the motor reduces the power independently to cool off.

Error: If an error occurs the error icon and a code are displayed in the bottom field. The code informs about the component causing the error and the error itself. You will find details about the error codes in the error message/trouble shooting chapter.

If the charge level falls below 30%, 3 beeps are emitted. The beep is repeated, if the charging status falls below 20% and 10%. The beep is also emitted if the motor is turned on, while the battery charge status is below 30%.

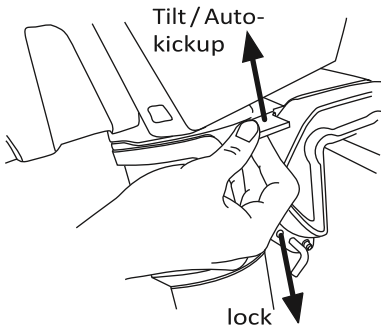


Watch the charge status while operating the motor.

5.3 Tilting the motor



- Remove the motor from the transom while towing or
- Do not tow or transport with the
- Damage may



The tilt lever in the “tilt/auto up”) enables the motor to be kicked up if it touches the bottom. In this position it is not possible to reverse at full speed or to stop the boat.

Automatic kick-up is switched off (lever down) position. This enables reversing at full speed.

- If the tilt lever is set to tilt/auto-kick-up reversing and stopping are not possible. Set the tilt lever to the „Lock“ position if it may be necessary to stop or reverse.
- When tilting the motor, please ensure that it is positioned securely.
- Beware not to squash hands or fingers when tilting the motor.
- In tilted position, the motor can turn in such a way that the positions of the tiller and battery change.

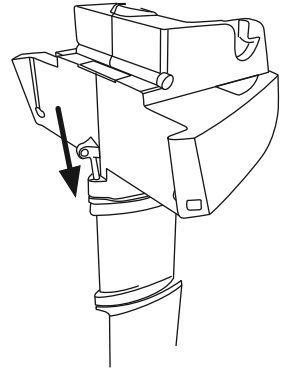
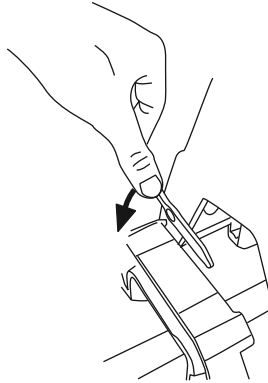
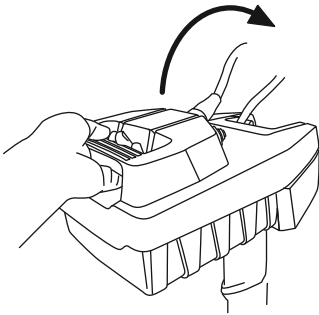


The auto-kick-up setting protects the motor in case of ground contact. It does not guarantee that ground contact will not damage the propeller or even the motor. This applies in particular if the ground is stone or rock.

Tilting the motor

Loosen the lock and tilt the motor down

Fixing the steering (if required)



5.4 Operating the batteries

5.4.1 Battery safety instructions

- Never use batteries that are not intended or designed for use with the unit.
- Please keep your original operating instructions. Refer to these instructions when it is time to replace your Torqeedo battery.
- Different makes of cell or cells of different capacity, size and design may not be used together within one unit.
- Whenever possible, batteries should be removed from the units when they are not in use. • Store your battery in its original packaging when not in use or charging. Please clean the contacts on the battery and the unit before installing the battery.
- Batteries must not be subjected to repeated impacts or mechanical shocks.
- Please store batteries out of the reach of children.
- Soiled battery poles can be wiped with a clean, dry cloth. Use a clean cloth moistened with a little water to clean plastic surfaces, e.g. the housing or covers. Cells and batteries must not come into contact with solvents such as thinners, alcohol, rust inhibitors or substances that may damage the surface like strong detergents.
- Do not store batteries where they may be exposed to rain. High temperature and high humidity may impair insulation resistance and result in auto-discharging as well as surface corrosion.
- Batteries and cells must not be stored hazardously in a box or drawer where they might short-circuit each other or be short-circuited by other conductive materials.

- Please store batteries in their original packaging. When batteries are removed from their packaging and kept next to each other, they may short-circuit or suffer damage.
- Avoid wearing metallic jewellery at all costs when working on or near batteries. Do not place metal tools on the batteries as this can result in short-circuiting. Please use insulated tools.
- Batteries must be charged prior to use.
- Always use the prescribed charger and follow the instructions and information in the operating manual regarding correct charging.
- Do not charge batteries over a prolonged period when they are not required.

5.4.2 General information on batteries

Name of model	Battery Travel 503	Battery Travel 1003	Battery Travel 1003 C
Capacity	320 Wh	530 Wh	915 Wh
Operating/storage temperature	-20°C to +60°C (-4°F to 140°F)		
Ideal storage (for storing >3 months)	Storage temperature ~50% for 5-15°C (40-60°F); Charging level for storage for 6 months Charging level 100% for storage for 1 year		
Self-discharge rate during optimal storage	3,6% per month, 43% per year		
Max. charging time (mains)	4 hours	6 hours	10.5 hours
Battery charging temperature	0°C to +45°C (32°F to 113°F)		

The batteries in models 503, 1003 and 1003C have different capacities. All motors can be operated however with all batteries but maximum power is limited to 500 W für all motors in case a 320 Wh battery is used.

The lithium-ion battery is not sensitive to cycles (one cycle = discharge and recharge). The cells lose around 20% of their capacity after using 500 times the battery capacity (i.e. after 500 discharges at 100% depth of discharge or 1,000 discharges at 50% depth of discharge, etc.). This lifespan indication refers to standard conditions (especially with temperatures of around 20°C / 68°F).

The battery does not have a memory effect.

It is more important for the lifespan of your battery that it is not exposed to excessive heat on an ongoing basis. If it is to be stored for a longer period of time the storage area should be cool.

Using the motor in a hot climate or at high daytime temperatures is not critical. After use you should take the motor out of the sun if possible.

The battery electronics also allow the battery to be charged when in use (charging and discharging at the same time). In this case, the input power displayed in the tiller represents only the net power taken from the battery. If the charging power is higher than the power consumed by the motor the display indicates a power consumption of zero watts.

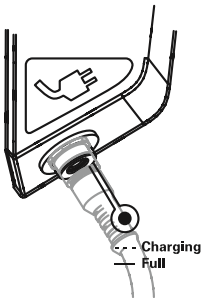


- If the battery is submerged in water over one metre deep or is submerged for more than 30 minutes in water of any depth, please contact Torqueedo Service and do NOT attempt to recover the battery yourself. Explosive hydrogen gas may form if water enters the battery.



- Except when charging the charging socket must always be closed.
To do so please use the flap provided.
- Do not cover charger or battery while charging.
- Charge your battery in dry conditions. Corrosion may occur and water may enter the battery through the charging plug.

5.4.3 Charging the batteries from the mains



The battery's charging socket is identified by a plug connector. To charge the equipment, connect the power supply to the socket outlet and charging socket. During charging, the charge status display light („Charging“) in the battery housing flashes. After completion of the charging process this light remains on permanently. To obtain more detailed information it is possible to connect the tiller with the battery during the charging process. In this case the tillers display will show the „Charging“ function and the charge status in percent.

- Never open the battery housing. Protect the battery against mechanical damages. In case of damage to the battery housing: - Stop using the battery and stop recharging the battery. Fire hazard!
- In case of electrolyte leakage from the damaged battery: avoid contact with the skin and direct inhalation of the gases. In case of inadvertent contact with the electrolyte discharged from the battery (e.g. contact with the skin or eyes), immediately rinse the affected areas with copious amounts of water. Seek medical attention immediately.
- Contact one of Torqueedo's Service Center for instructions on how to dispose of the damaged battery.
- Never short-circuit the battery.
- Always charge the battery under the supervision of an adult and on a fire-resistant surface.
- Charge the battery only at ambient temperatures between 0 °C and 45 °C.

- Please note that since 2009 there has been a ban on carrying lithium batteries with a capacity >100 Wh on passenger aircraft as baggage. The battery supplied with this product battery exceeds this threshold and is therefore prohibited from being carried on passenger aircraft either as carry-on baggage or cargo.
- The battery charger included in the scope of supply is not waterproof; it must therefore be protected against splash water during charging.

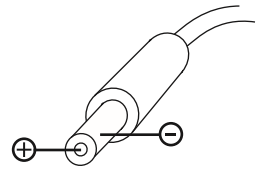
5.4.4 Charging the batteries from the on-board batteries

It is possible to charge the battery from any DC voltage source within a range of 9.5V ... 50V.

The required minimum current is 4A.

For charging please use a wire cross-section of at least 0.5 mm².

The dimensions of the required barrel connector are 5.5/2.5 mm. For example, it is a good idea to use the 12-V battery charger lead made by Torqeedo. Pay attention to the polarity - see diagram.



If the battery is not charged with the power supply provided (or other Torqeedo products) please check the polarity of the connection. If the polarity is not respected the device may be damaged and this is not covered by the warranty



- If you do not use original Torqeedo equipment to charge your battery from the on-board battery supply, do ensure that the appropriate wire diameters are used (fire hazards).
- Voltages in excess of 60V (including even short-term excess voltages) can lead to damage of the battery.

5.4.5 Charging the batteries using solar energy

The battery can be charged directly using the Solar Charger SUNFOLD 50 (Torqeedo item no. 1132-00). It is also possible to charge the battery with solar panels with an open-circuit voltage of up to 50V. For charging please use a wire cross-section of at least 0.5 mm². In that case the battery will dynamically adjust to the panel power.

Technical specifications for barrel connector and polarity: See chapter 5.4.4



- Always charge the battery under the supervision of an adult and on a fire-resistant surface.
- Voltages in excess of 60V (including even short-term excess voltages) can lead to damage of the battery.

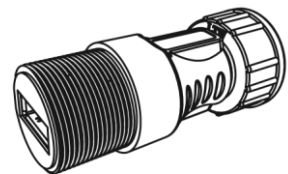
5.4.6 Power supply to a device via USB supply connection

The adapter enclosed in the delivery allows power supply to USB-compatible devices. Output voltage: 5V; maximum output current: 1A.

Plug the adapter into the top of the charging socket and tighten the union nut. Plug the USB-A plug connector of your equipment into the adapter. The power supply to the equipment will continue for four (4) hours after deactivation of the tiller display. The charge coding for smartphones is 1A according to the Apple standard.



- Be careful not to apply any (leverage) forces on the adapter.
- Please make sure that no water gets into the USB adapter.
- When not in use, please remove the USB adapter.

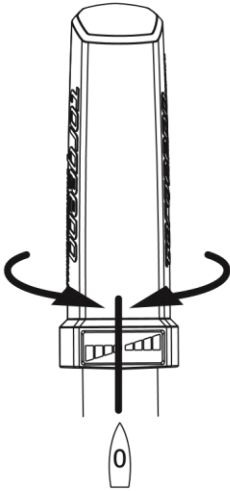


5.5 Unusual functions/emergency situations

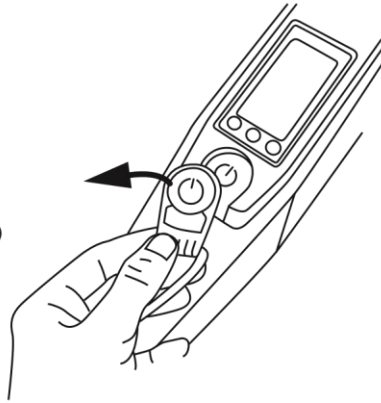
There are three

ways to stop the motor:

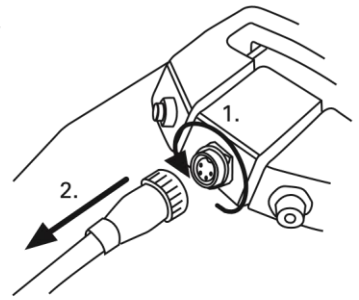
1.
Turn tiller to stop position



2.
Remove
switch



3.
magnetic kill
battery (main switch)



In the unlikely event that your Torqeedo battery should catch fire, try to move it into a position where it cannot cause damage. Water cannot extinguish a lithium fire – if possible cover the battery with sand.

Remove
from

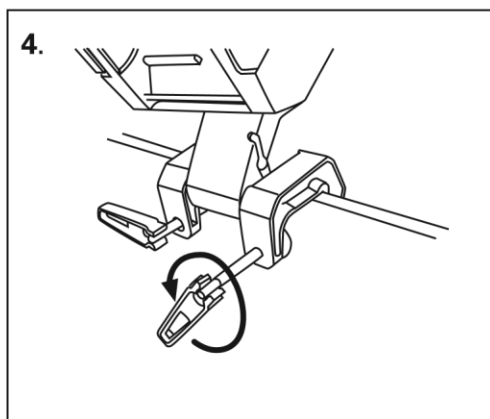
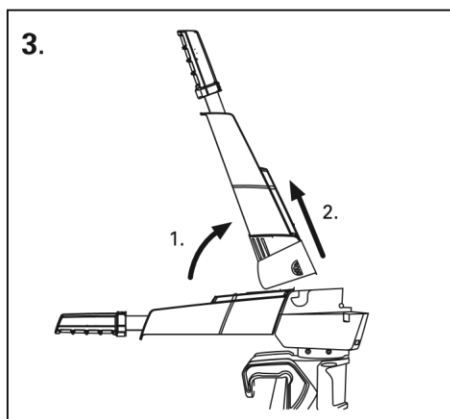
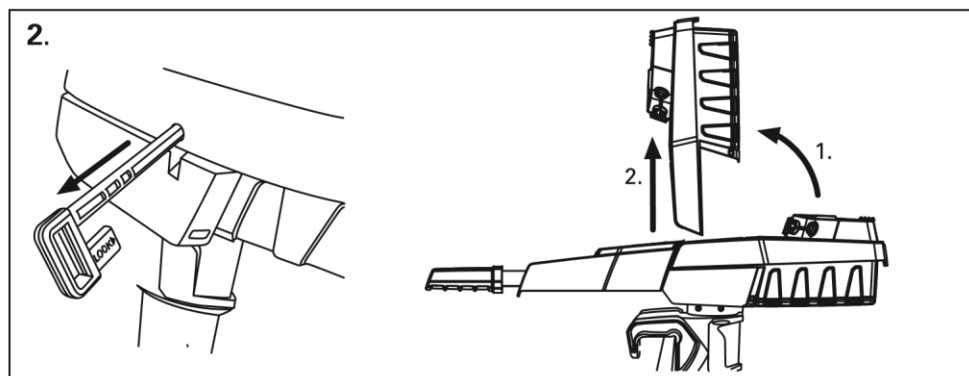
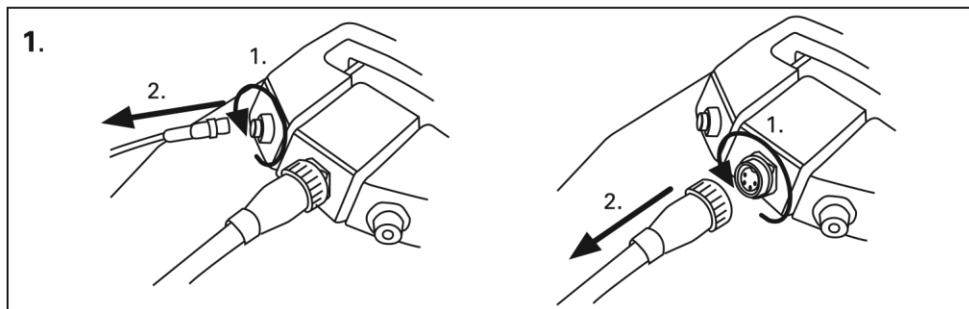
motor cable

5.6 Error messages/trouble shooting

Display	Cause	What to do
E02	Stator over-temperature (motor overheating)	Motor can be used again after a short wait about 10 minutes). Contact Torqeedo Service.
E05	Motor/propeller blocked	Disconnect motor cable from battery, then loosen blockage and turn propeller one revolution by hand. Reconnect motor cable.
E06	Voltage in the motor too low	Low battery charging status. Motor can potentially be used again slowly from the stop position.
E07	Motor overcurrent	Continue at low output.
E08	Circuit board overheating	Motor can be used again after a short wait about 10 minutes). Contact Torqeedo Service.
E21	Tiller calibration defective	<ul style="list-style-type: none"> • Re-calibrate: Press "cal" button for 10 seconds. • The display shows "cal up": Press gas tiller then forward to full "cal" button. • The display shows "cal stp": Return tiller to central position then press the "cal" button. • The display shows "cal dn": Press gas tiller backward to full gas then press the "cal" button.
E22	Magnetic sensor defective	Re-calibrate (refer to E21)
E23	Value range false	Re-calibrate (refer to E21)
E30	Motor communication error	Check the motor cable's plug-in connection. Check the motor cable for damage.
E32	Tiller communication error	Check the tiller's plug-in connections. Check the cable.
E33	General communication error	Check the plug-in connections and cables. Switch the motor off and on again.
E41, E42	Incorrect charging voltage	Use a Torqeedo power supply. If the error occurs in spite of using a Torqeedo power supply, wait until the battery dissipates the overcharge. Should the error persist please contact Torqeedo Service.
E43	Battery empty	Charge battery. Motor can potentially be used again slowly from the stop position.
E45	Battery overcurrent	Switch motor off and on again. If this error occurs the battery status indicator and range display can no longer operate until the battery has been fully charged again.

E46	Battery operating temperature error	Battery cells outside operating temperature between -20°C and +60°C (-4°F to 140°F). The motor can be used again when the temperature has stabilized.
E 48	Charging temperature error	Charging will continue when the cell temperature is between 0°C and +45°C (32°F to 113°F).
Other error codes	Faulty	Contact Torqeedo Service and notify them of the error code.
No blinking during charge process, no function of tillerdisplay during charge process	Faulty	Contact Torqeedo Service.

6. Dismantling



7. Storage and care instructions

7.1 Corrosion protection, care, maintenance

After use in salt or brackish water rinse the motor with fresh water.

Please spray the contacts about every 2 months with contact spray (e.g. Liquid Evolution Wet Protect Nautic).

As a result of the selected materials (high quality aluminum, austenitic stainless steel) and the electrical separation of different materials under the water surface, a sacrificial node is not required even when operating in salt water.

The surfaces of the Travel motor can be cleaned with normal, commercial detergents.

The plastic surfaces can be treated with cockpit spray.

Except when charging the charging socket must always be covered. To do so please use the flap provided.

After 5 years of operation the shaft sealing ring must be exchanged. Please contact an authorized service center for this.



When carrying out service and maintenance work on the motor, always remove the motor's plug connector to prevent the motor from starting up accidentally.

7.2 Caring for the battery

You extend the lifespan of your battery if you do not expose it to hot environments for longer than necessary. A cool ambient temperature is especially important if you store the battery for longer periods of time.

Comply with the following rules if you are storing your battery for a longer period of time. Storage for around six months: Charging level when stored 50 %. Storage for a whole year: Charging level when stored 100 %. If the battery is to be stored for several years the charging level should be checked once a year in order to prevent the battery from deep discharging.

7.3 Changing the propeller

1. Disconnect the motor cable from the battery.
2. Use a socket wrench, metric socket size 17 (11/16" for the US), to unscrew the self-locking hexagonal nut on the propeller. Hold the propeller with protective gloves (risk of injury).
3. Remove the propeller and the outer washer from the motor shaft.
4. Pull the cylindrical pin out of the motor shaft and remove the inner washer from the motor shaft.

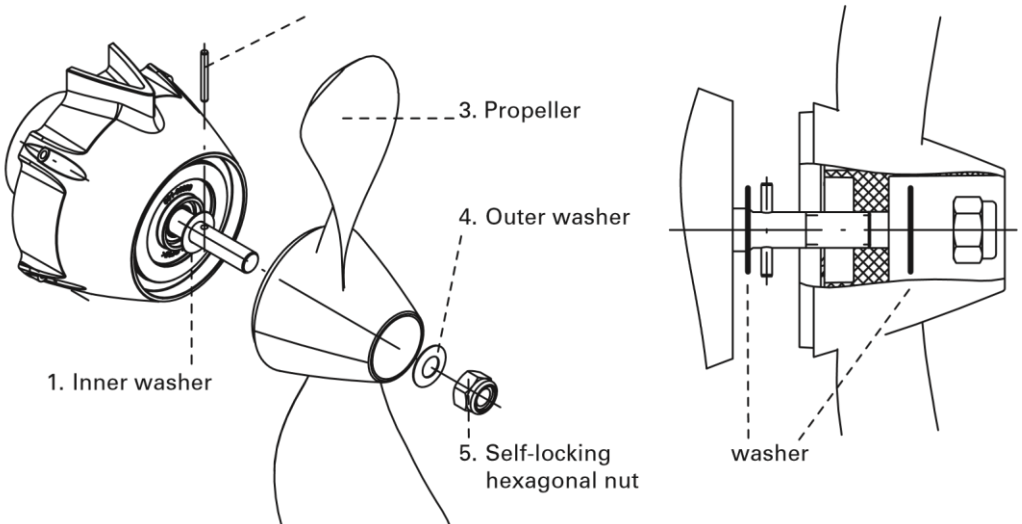
5. Reconnect the motor cable to the battery and switch the motor on. Let the motor run slowly and check at the shaft sealing ring whether the shaft rotates evenly. Take care that no loose clothing, scarves or other clothing as well as hair can catch in the motor shaft and be pulled in. In case of damage or if the shaft or sealing rings rotate out of true, contact Torqueedo Service.
6. Disconnect the motor cable from the battery. Place a new washer onto the motor shaft and insert the new cylindrical pin into the centre of the motor shaft.
7. Place the propeller onto the motor shaft as far as it will go, so that the cylindrical pin locks into the recess provided in the propeller.
8. Place the outer washer onto the motor shaft and screw the self-locking hexagonal nut hand-tight onto the propeller. Hold the propeller with protective gloves (risk of injury).

2. Cylindrical pin

8. Warranty conditions

8.1 Extent of warranty

Torqueedo GmbH, Friedrichshafener Straße 4a in 82205 Gilching, Germany guarantees the final purchaser of a Torqueedo outboard motor that the product is free from material and manufacturing faults during the period stated below. Torqueedo will indemnify the final purchaser for any expense for the repair of a material or manufacturing fault. This indemnification obligation does not cover the incidental costs of a warranty claim or any other financial losses (e.g. costs for towing, telecommunications, food, accommodation, loss of earnings, loss of time etc.).



The warranty ends two years after the date on which the product was delivered to the final purchaser. Products that are used commercially or by public authorities - even if only temporarily - are excluded from this two-year warranty. In these cases, the statutory warranty applies. The right to claim under warranty runs out six months after discovery of a fault.

Torqueedo decides whether faulty parts are repaired or replaced. Distributors and dealers who repair Torqueedo motors have no authority to make legally binding statements on behalf of Torqueedo.

Normal wear and tear and routine servicing are excluded from the warranty.

Torqueedo is entitled to refuse a warranty claim if:

- the warranty was not correctly submitted (in particular failure to contact Torqueedo before sending back goods, failure to present a completely filled-in warranty certificate and proof of purchase, refer to Warranty process),
- the product has been used improperly,
- the safety, operating and care instructions in the manual were not observed,
- the product was in any way altered or modified or parts and accessories were added that are not expressly permitted or recommended by Torqueedo,
- previous services or repairs were not carried out by firms authorized by Torqueedo, or non-original parts were used.

As well as the rights arising from this warranty, the customer also has legal warranty claim rights arising from the purchase contract with the dealer that are not hampered by this warranty.

8.2 Warranty process

Adhering to the following warranty process is a prerequisite to the satisfaction of any warranty claims.

Before dispatching any apparently faulty goods, it is imperative to coordinate the delivery with

Torqueedo Services, Torqueedo Service will issue an RMA-Number.

You can contact us by phone, email or mail. The ability to make contact via the www.torqueedo.com website is being extended successively. You can find the contact details on the back of this manual. **Please understand that we are unable to**

deal with products of which we have not been notified and will therefore refuse to accept delivery.

When shipping products to us for repair or under warranty, please pay attention to the following requirements:

- **Please note the RMA Number well visible on the outside of the transport packaging.**

- **Please provide a completed warranty certificate** with your shipment. The warranty certificate form is located on page 30 of this manual, it will be also available as a download from our website. The completed certificate must provide contact details, product details, serial number, and a brief description of the problem.
- **Please provide a proof of purchase.** The proof of purchase must indicate also the date of purchase (e.g. transaction receipt).

To check a warranty claim and to process a warranty, we require your assistance:

For returning the motor to the Service Center, we recommend keeping the original Torqueedo packaging. If this is no longer available packaging that excludes transport damage must be used as this is not included in the warranty.

We are available to answer any questions regarding the warranty process - simply use the details on the back cover.

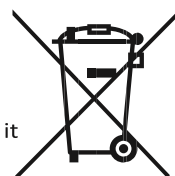
9. Accessories

Item	Item	Description
1146-00	Spare battery Travel 503, 320 Wh	High-performance lithium battery with integrated GPS receiver, 320 Wh, 29.6 V, 11 Ah, USB-connector to power other electric devices
1147-00	Spare battery Travel 503/1003, 530 Wh	High-performance lithium battery with integrated GPS receiver, 530 Wh, 29.6 V, 18 Ah, USB-connector to power other electric devices
1148-00	Spare battery Travel 503/1003, 915 Wh	High-performance lithium battery with integrated GPS receiver, 915 Wh, 29.6 V, 31 Ah, USB-connector to power other electric devices
1917-00	Spare propeller v9/p790	For Travel 503 and Travel 1003 with production as of 2014 (Ø 292 mm)
1918-00	Remote throttle for Travel 503/1003	Allows running Travel 503/1003 models with a remote throttle, including built-in display providing information on battery status, GPS-based speed and remaining range, including 1.5 m / 4.9 ft and 5 m / 15 ft connection cable between motor and throttle
1919-00	Long tiller arm	Longer tiller handle, 60 cm / 23.6 in., for Travel 503/1003 models (available May 2011)
1920-00	Travel and Ultralight motor cable extension	Extension for cable connection between battery and motor for Ultralight 403 and Travel 503/1003 models, allows for longer distance between battery and motor, 2 m / 6 ft long, with waterproof connectors (available May 2011)
1921-00	Throttle cable extension 1.5 m / 4.9 ft	Extension cable connection for Travel 503/1003, Ultralight and Cruise models; allows for longer distance between tiller or throttle and motor/battery R
1922-00	Throttle cable extension 5 m / 15 ft	Extension cable connection for Travel 503/1003, Ultralight and Cruise models; allows for longer distance between tiller or throttle and motor/battery R

1925-00	Travel bags (2 pieces)	Bags for motor and battery of Travel models
1926-00	Travel battery bag	Bag for spare battery of Travel models
1931-00	Outboard cover for Travel	For Travel 1003 and 503 models. Protects motor cable from UV fading and shaft head from dirt. 95% waterproof, 5% breathable
1924-00	TorqTrac	Smartphone app with improved onboard computer functions. Suitable for Travel 503/1003, Ultralight, Cruise R and Cruise T models. Including data cable with bluetooth module to connect outboard and smartphone.
1914-00	Magnetic kill switch	Emergency-stop and immobiliser for Travel, Cruise and Ultralight models
1927-00	Spare parts kit Travel	Set for Travel models consisting of magnetic kill switch, large battery fixing pin and small steering fixing pin
1128-00	Charging cable 12 V Travel and Ultralight models	Allows charging of Travel 503/1003 and Ultralight 403 models from 12 V power supply.
1132-00	Sunfold 50	Foldable solar panel with 50 W, handy format, high efficiency, plug-and-play connections for watertight charging of Travel 503/1003, compatible only with batteries part no. 1146-00 and 1147-00
1133-00	Charger 90 W for Travel 503 / 1003 battery	90 W charger for power outlets between 100-240 V and 50-60 Hz. Use only with Travel battery part no. 1146-00 and 1147-00.

10. Decommissioning the product / disposal

Torqeedo Travel motors are manufactured in accordance with EU Directive 2002/96. This directive regulates the disposal of electrical and electronic devices to protect the environment. You can, in line with local regulations, hand in the motor at a collecting point. From there it will be professionally disposed.



Respect Inspection date. Do not use after expiration an inspection carried out by an authorised Torqeedo Service Center.

10.1 Disposing of waste electrical and electronic equipment

Für Kunden in EU-Ländern

For customers in EU countries

The Ultralight system is subject to European Community Directive 2012/19/EU on waste electrical and electronic equipment (WEEE) and to corresponding national legislation. The WEEE Directive defines the basis for how waste electrical and electronic equipment is to be handled throughout the EU.

The Ultralight system bears the symbol of a crossed out wheeled bin pictured on the left. Waste electrical and electronic equipment may not be disposed of with normal household waste because substances with harmful effects on the health of humans, animals and plants may be released into the environment and accumulate in the food chain.

At the same time, valuable raw materials will be lost.

For this reason, please dispose of your waste electrical equipment separately in an environmentally sustainable manner; please contact Torqueedo Service or your boatbuilder for more information.



For customers outside the EU

The Travel system is subject to European Community Directive 2012/19/EU on waste electrical and electronic equipment.

We recommend that you do not dispose of the system with your normal household waste but instead separately in an environmentally sustainable manner. It is also possible that national legislation in your country requires this. For this reason, please check your local regulations and ensure that you dispose of the system in accordance with the statutory provisions.

10.2 Disposing of batteries

Please remove used batteries immediately and follow the special instructions for disposing of batteries and battery systems listed below:

For customers in EU countries

Batteries and rechargeable batteries are subject to European Community Directive 2006/66/EC on (waste) batteries and (waste) rechargeable batteries and to corresponding national legislation. The Battery Directive defines the basis for how batteries and rechargeable batteries are to be handled throughout the EU.

Our batteries and rechargeable batteries bear the symbol of a crossed out wheeled bin pictured on the left. There may be letters below the symbol indicating the harmful substances they contain, i.e.

“Pb” for lead, “Cd” for cadmium and “Hg” for

mercury. Waste batteries and waste rechargeable batteries may not be disposed of with normal residual waste because substances with harmful effects on the health of humans, animals and plants may be released into the environment and accumulate in the food chain. At the same time, valuable raw materials are lost.



For this reason, please dispose of waste batteries and waste rechargeable batteries via collection points specially set up for the purpose, via your dealer or via us; this service is free of charge.

For customers outside the EU

Batteries and rechargeable batteries are subject to European Community Directive 2006/66/EC on (waste) batteries and (waste) rechargeable batteries. Our batteries and rechargeable batteries bear the symbol of a crossed out wheeled bin pictured on the left. There may be letters below the symbol indicating the harmful substances they contain, i.e. “Pb” for lead, “Cd” for cadmium and “Hg” for mercury.

We recommend that you do not dispose of batteries and rechargeable batteries with your normal residual waste but instead separately in an environmentally sustainable manner. It is also possible that national legislation in your country requires this. For this reason, please check your local regulations and ensure that you dispose of the system in accordance with the statutory provisions.

Version 6.0
039-00052

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	-	319				-
						847
						-
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						88
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service@torqueedo.com

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	07		

All other countries

Contact details of Service Centers are available under www.torqueedo.com in the "Service Center" section.

Translations of the original manual

Alle weiteren Länder:

Kontaktdaten des Service Centers finden Sie unter www.torqueedo.com unter "Service Center".

Originalbetriebsanleitung