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ELECTRIC BICYCLE INSTRUCTIONS FOR USE

VB1

VB2

VB3

Read this guide as whole carefully before using your electric bicycle.

PREFACE

This product has been designed as environment friendly. In these instructions for use, there are safety, maintenance and basic storage instructions. This high technology vehicle that you purchased, consists of following parts:

- High efficiency and brushless dc motor
- Low voltage protected digital smart driver
- Circuit breaker brake sensor for safe riding
- Long range and high performance with high capacity battery
- Pleasant and comfortable riding with high quality suspension system
- Bicycle equipment ensuring European standards

These instructions for use will be an irreplaceable part of your vehicle. Make sure that you receive these instructions together with the vehicle you purchased.

When there is a problem about your vehicle, do not use parts except the original ones presented by authorized service shop.

These instructions for use have been prepared mutual for VTA electric bicycles. Used visuals and technical characteristics may not be the same with the vehicle you purchased. The main purpose of these instructions for use, is to ensure introduction of the product and using safely.

We thank you for preferring our product. We wish pleasant and safe rides with your electric bicycle.

WARNING These headings have been written in order to present personal accidents and not to cause possible fatal accidents.

ATTENTION - These headings have been written to protect you from important personal injuries and mechanic damages.

WARNING

- As per the laws of some countries, there might be need for a minimum age for using this product and a driving license. In this type of situations, make sure that you ensure legal conditions of the country you live to use the vehicle.

- Do not demount, replace or modify any part on the vehicle without approval of authorized service shop. Processes those are made without approval of authorized service shop, will impair originality of the vehicle and the vehicle will be out of the scope of guarantee. Please make all replaces at authorized service shops.

VB1

VB2

VB3

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1. THE VEHICLES AND ACCESSORIES

Products

VB1

1. Indicator
2. Gear Lever
3. Start- up Support Assistant
4. Headlamp
5. Disc Brake
6. Charge Input
7. Saddle
8. Accumulator Contact
9. Back Carrying Iron
10. Folding Apparatus
11. Pedal
12. Abutment
13. Engine
14. Rider

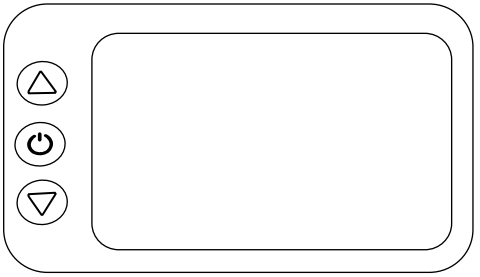
VB2

1. Indicator
2. Gear Lever
3. Start- up Support Assistant
4. Headlamp
5. Disc Brake
6. Folding Apparatus
7. Charge Input
8. Accumulator Contact
9. Pedal
10. Rider
11. Abutment
12. Engine
13. Saddle

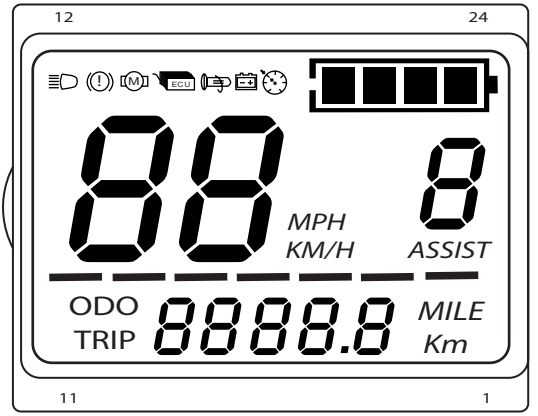
VB3

1. Indicator
2. Gear Lever
3. Start-up Support Assistant
4. Headlamp
5. Brake Mechanism
6. Rider
7. Charge Input
8. Accumulator Contact
9. Engine
10. Pedal
11. Abutment
12. Saddle
13. Back Carrying Iron

Indicator



1- Function indicator, speed, remained battery signs, error, total range, single round range, voltage, operation period.
2- Control, adjustment function, power button control, rim diameter adjustment, idle period adjustment, holding ready automatically, rear lamp brightness control, starting mode adjustment, rider mode adjustment, voltage level adjustment, rider current limit adjustment.
3- 3- Type of communication: UART
You can view all indicator content as follows (it demonstrates all signs 1 second after opening)



Content View

3.1 Voltage and battery power 

3.2 Multiple function display 

Single round DIS, Total range ODO (unit: mile, km)

3.3 Speed indicator 

Unit Mp/h, km/h

Speed signal comes from hall sensor of engine, it is sent to speedometer by control device (circle period of each hall sensor, unit: IMS) speedometer measures real speed according to rim diameter and signal data. If your rim diameter is entered wrong, your speed will also be calculated wrong. Please make sure that correct rim diameter is entered

3.4 In order to adjust electric bicycle support level, 

8ASSIST you can use 1, 2, 3 levels for speed options.

3.5 Electric bicycle indicator signals: 

 : Headlamp  : Brake,  :Start-up Support Assistant,

 : Driver warning  : Batttery warning  : Speed fixing warning

3.5 Error codes

E-01: Hall sensor warning;

E-02: Brake, Start-up Support Assistant;

E-03: Driver warning;

E-04: Brake lever warning;

E-05: Low voltage warning;

E-06: Communication warning (it means that speedometer cannot take data from rider)

E-07: Communication warning (it means that rider cannot take data from speedometer

Adjustments

P01: Read lamp brightness (1: the darkest; 3: the brightest)
P02: Kilometer unit, 0; Kilometer. 1: Mile
P03: Voltage unit: 24V, 36V, 48V,
P04: Holding Ready Period: 0 never hold, other figures indicate holding ready period, time interval is 1-60 minutes)
P05: Gear: 0: 3 level mode,
1: 5 level mode,
2: 9 level mode,
P06: Wheel Diameter: Unit, inch; Sensitivity 0.1
P07: Magnetic Steel Number for Speed Test Range: 1-100
P08: Range: 0-100km / s, 100 means there is no speed limit

1. Communication status (Auditor control): Riding speed is fixed as a limited value. Error Value: ± 1km / s (valid for assistant power / speed)

Note:

Above indicated values are measured with metric unit (kilometer). When measuring unit (mile) is changed, speed value that is seen on panel, is automatically passed to related imperial unit, however, speed limit value on unit interface is not changed based on that.
P09: Zero / Zero Out beginning adjustment, 0: Beginning. 1: Zero Out beginning adjustment P10: Riding Mode Adjustment

0: Power rider- Special gear of assistant rider decides assistant power value. In that case, start-up support assistant does not work.

1: Electric Rider- The vehicle is ride with start-up support assistant. In that case, power gear does not work.

2: Power rider + Electric Rider- Electric rider is non-operational

P11: Assistant Power Sensitivity 1-24
P12: Assistant Power Intensity 0-5
P13: Number of Magnet 5/8/12pcs
P14: Assumed current limit value 12A: Ranger 1-20A

P15: Engine Start-up Adjustment 0-100
P16: Riding Function: 0 off, 1 on
P17: Headlamp Synchronization 0 off, 1 on
P99: Press on down button for starting, 99 is demonstrated, after that, press on up button for 5 seconds for a long time to start.
ODO Zero-Out: Press on down button for 5 seconds for a long time, ODO is reset.

Key Explanations

1: Press ON/OFF button for a short time to open indicator when it is off. In order to change interface in ODO / TRIP / RM / TM / ERRO mode when indicator is open, press ON/OFF button for a short time

2: In order to turn off the indicator, press on ON/OFF button for a long period. In order to increase PAS level, press on up button + for a short period, in order to decrease PAS level, press on down button + for a short period.

3: In order to adjust parameter, press on + button for a long period.
In order to change parameters on adjustment interface, press on ON/OFF button for a short period and press on MODE button to add parameter ("A" on left side) / minus ("d" on left side) After change, in order to pass to next parameter and save it, press on ON/OFF button for a short period; press on last parameter or MODE button for a long period; parameter stops flashing and it is saved. In order to exit from parameter adjustment interface, press on ON/OFF + MODE button for a long period or wait for 10 seconds and automatically exit from mode.

Note:

The vehicle you purchased, can demonstrate difference comparing to explanations indicated in these instructions of use.

3. ASSEMBLYING THE VEHICLE

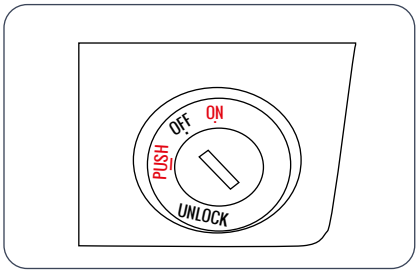
1- First of all, fix your vehicle on abutment and open folding apparatus. Then, make your
vehicle ready to fold towards left.

2- Open folding apparatus place on lower section of handlebar and fold handlebar towards down to front wheel.

3- When your vehicle's folding apparatus and handlebar folding apparatus are open, prepare your vehicle and handlebar for folding.

4- Fold handlebar towards down, fold your vehicle by pushing folding apparatus part toward read wheel.

Battery Locking and Power Switch



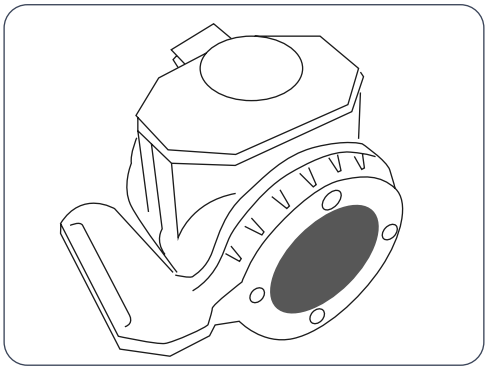
Power Switch is placed in battery in order to activate your electric bicycle. Turn the switch on to open. When the bicycle is not in use, keep it always in off position.

- It means that power is on and the engine can be activated.

- It means that power is off and the battery is locked. I such case, you can take the switch off.

PUSH - Push the switch in and then turn to counter clockwise.
When it is on "LOCK ON" position,

UNLOCK - You can remove your battery in that position.

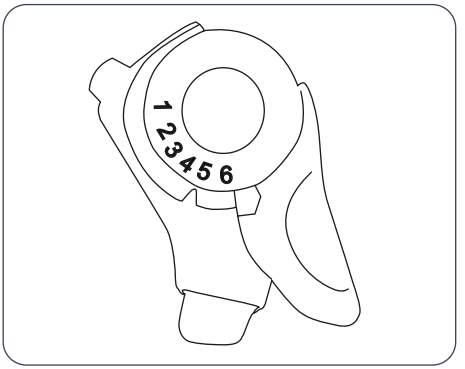


Start-up Support Assistant

Firstly, it begins with 0-6 km/h. It is located on start-up support lever handlebar. Speed limit of start-up support lever is 6 km/h

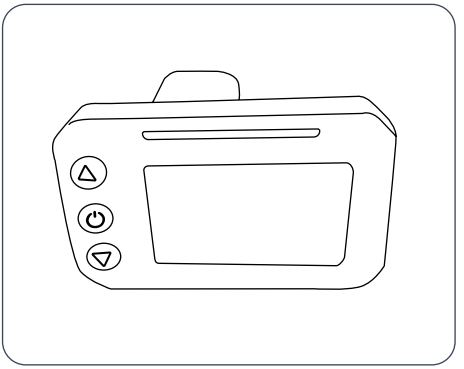
Gear Lever

Operating gears is made by using selector figures on the gear. It is used to select rate of required gear.

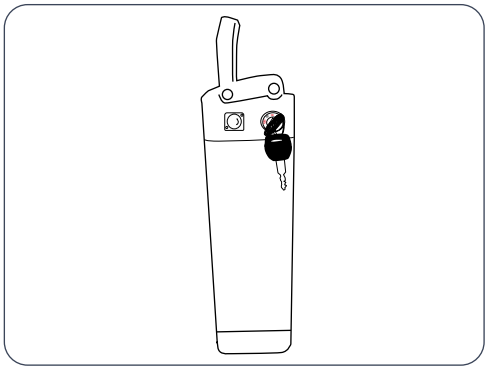


Indicator

Its indicator is located handlebar.



Removing Battery for Charging



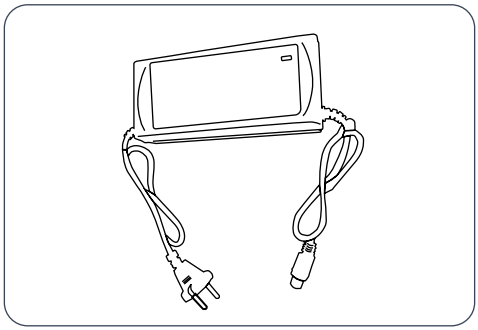
Remove the batters by turning the switch to "Open Lock" position. This will ensure that you remove and charge the battery.

1. Charge socket is placed on upper parts of the battery.
2. Plug charger cable on charge socket on the battery.
3. Plug charger on correct electric socket (220v50hz). Turn network source on to begin charging process.

Battery charge indicator will flash in RED during charging. Charging may take 2-8 hours based on how much it is needed. The indicator becomes GREEN when it is fully charged. When GREEN light is lid, charging will continue to be applied.

Note:

When charger is on, do to plug charger cable to a socket.
Plug charging cable always when charger is off.



Riding Instructions

- Before every use, make sure that all parts are at good condition, nuts and bolts are tighten, brakes are operational and adjusted appropriately.
- Make sure that tyres are inflated correctly and tyre back is sufficient for the operation.
- Wear a helmet when you ride your electric bicycle.
- Do not ride under excessive raining. It is recommended not to ride at rainy weathers.
- Do not ride through deep waters while riding your electric bicycle. This may damage your electric bicycle and make it out of repair.
- Make sure that you do not touch your battery with your wet hands or a metal object. This might cause electric shock or a short circuit.
- Do not increase your speed while going downhill.
- Do not press on start-up support assistant while walking with your electric bicycle.
- Do not pass over obstacles when you ride your electric bicycle, pass by obstacles.
- Do not hang heavy objects on handlebar.
- Tightly grip handlebars with your hands, protect balance completely.
- Place your right hand on start-up support lever (turn slowly to prevent sudden speed-up).
- Speed of your vehicle will increase when you use start-up support assistant. In order to stop your electric bicycle, remove your hand from gas and pull brake lever to yourself slowly. If you pull brake lever, start-up support assistant will stop automatically.

5. RIDING INSTRUCTIONS

Please check before each usage:

1. Check tyre air pressure.
2. Make sure that battery charge is enough for your ride.
3. Make sure that front and rear brake are operational.
4. Make sure that your handlebar is adjusted based on height of your seat.
5. Make sure that front and rear wheels are smooth and fixed.

6. SAFE USE INSTRUCTIONS

Safety Suggestions

- Make sure that your tyres are in good condition.
- Pay attention that brake cables and brake levers are lubricated, no oil contamination at rims or brake blocks.
- Do not charge your battery excessively. If your battery is empty, turn it off until charging again.
- Please replace worn tyres and brake pads.
- Brake cables may get longer by the time and in order to provide a good braking, it is required to adjust and tighten brake cable regularly.
- Regularly wipe your battery with a dry and soft fabric. Bad connection will cause reducing battery capacity.
- Pay attention not to leave it outside at bad weather conditions without enough covering.
- Battery capacity is reduced based on usage. Variable factors will determine the distance that can be taken with the help of the engine of your electric bicycle.

- The factors such as weight of rider or load, hills and slopes, type of road (asphalt, grass, mud), weather conditions (rain, wet, windy etc.), wrong tyre pressure, can seriously reduce battery efficiency.
- Battery life is based on period and conditions of use.
- Certainly, follow traffic rules in your country. Besides, perform safety instructions and suggestions taking place in this handbook.
- In order to prevent personal injuries, do not give your electric bicycle to the persons who do not know how to ride it. Make notification about how to ride when you give your electric bicycle to other persons. Make sure to wear correct safety equipment.
- Check your electric bicycle before each use. If you observe situations such as a loosen part, lower tyre air, consumed battery, different voices while turning or different situations, please stop riding. Before fixing these errors, do not ride your electric bicycle.

Preventing Hazardous Ride

- Before every use, make sure that all parts are in good conditions, nuts and bolts are tighten, brakes are operational and adjusted appropriately.
- Make sure that tyres are steady before use.
- Check tyre pressures.
- Make sure that all nuts and bolts are tighten sufficiently.
- Besides, check whether brake cable and other cables are tightened and operate appropriately.
- Charge battery when it is not in use. Waiting for long period on low battery level, will reduce battery life.
- Check all rotating parts and lubricate if it is insufficient.
- Check all lighting systems.
- Do not increase speed when you go downhill.

- Avoid sudden turns in crowded areas.
- Do not get on persons more than one on your electric bicycle.
- Do not touch disc brake after usage. Temperature of disc brake is high after usage.
- Do not free your hands during riding.

Standing Positions

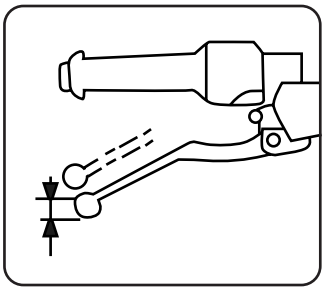
Abutment: It is used in short term parks.

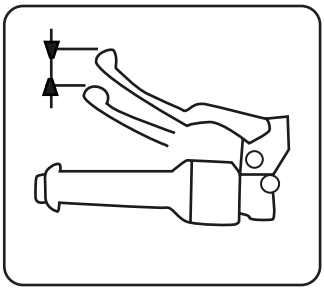
Pedal

Do not place heavy and big volume parts on pedal. It impairs balance of your electric bicycle and can cause danger.

Front and Rear Brake

It moves idle for about 10-20 mm distance before seeing left and right brake levers' functions. This distance is named "free distance". By tightening nuts or make them free, free distances can be adjusted.





Folding

Make sure that your electric bicycle is at off position. Firstly, open folding apparatus place on lower part of handlebar and push handlebar down. Then open folding apparatus on middle section of your electric bicycle and fold your electric bicycle on middle.

Transporting

You can easily carry your electric bicycle when it is folded.

8. MAINTANENCE AND STORAGE

- Store your electric bicycle away from cold, in your garage if possible.
- Keep batteries away from children.
- Do not connect anode and cathode of your charger when it is charged or discharged. Never use a conductive between anode and cathode. It will cause short circuit.
- Avoid your battery contacting with water.
- Protect your batteries from temperature at 60 degree and above.
- Do not expose it to physical impacts such as strike, throw, fall.
- Do not tamper batteries with sharp and driller tools.
- If a leakage occurs and contacts with your skin or eyes, immediately wash with plenty of water and consult to the closest health care provider.
- If physical changes such as smell, heating, burning, color change, are seen at a battery, immediately separate and remove that battery from your vehicle.

Charger

- Use only original charger designed especially for your product. It operates with 220V. Never lower to 110V.
- Your electric bicycle should be off when it is charged.
- Do not shake your electric bicycle when it is charged.

Cleaning the Vehicle

- Never use very high pressurized water when you wash your electric bicycle. High pressurized water can cause that some of your parts take water. Parts taking water lose performance and they can be broken. It is recommended to clean your electric bicycle with a wet fabric.
- Never lubricate the brake installation and tyres.
- Use oil to clean metal parts of your electric bicycle.
- While cleaning painted plastic parts, always use standard cleaning agents. Rinse with a wet fabric after cleaning.

Do not use alcohol, petroleum, gas oil or other abrasive and volatile solutions to clean your electric bicycle. Otherwise, serious damages can occur on your electric bicycle.

Do not wash your electric bicycle with high pressurized water.

Make sure that your electric bicycle is off when you wash it.

Do not operate the product unless you are 100% sure that it is dried.

Electric shock can happen if your charger contact with water when it is plugged. Please, after each charging, first remove your charger from your electric bicycle and then from socket. Keep your charger in a safe and dry area.

Battery Use

1) In order not to encounter with a dangerous situation, do not use different brands of batteries.

2) Do not open the battery or do not try to demount in order to prevent electric shock. Do not temper the battery with metal objects to prevent short circuit. This can impair the battery and cause a serious injury for you.

3) Use your battery with original charger delivered to you with your product in order not to encounter with a problem and to prevent your vehicle firing.

4) Your batteries are recyclable. Please return your batteries which their service lives are over, to authorized service points

5) Do not leave your battery above 50°C and below -20°C temperatures. Keep away from fire. High temperatures can cause your battery firing. When it is possible, the vehicle should be charged when battery level is reduced to 20%.

Storing the Vehicle

- If you will not use your electric bicycle for a long term in some periods such as winter months, you are required to take some measures to protect your electric bicycle from abrasion and impairments. Additionally, it will be better to make some repairs before storing.
- Clean, rinse and dry your electric bicycle. Covering painted surfaces with oil will extend life of your paint, ensure to keep its brightness at the first day.
- Bring your electric bicycle's tyre pressure to ideal tyre pressure level. Place a wood below front and back wheel to rise from the ground by lifting middle pedal.
- Cover with a quilt which is not plastic or rubber. Pay attention to store under conditions where temperature does not change much. High temperature can cause tiring, impairing and cracking many parts of your vehicle.

Taking Your Vehicle to Use Again

- Move the quilt on your electric bicycle and clean your vehicle.
- Operate your electric bicycle after you perform all pre-operation instructions.
- Make the first use in an area closed to traffic. Entering into traffic after you are sure that all parts of your electric bicycle operate correctly and with full performance.

Loading

- Maximum carriage capacity of rear carrying iron is 10kg.
- Do not carry loads those are not suitable for carrying on your bicycle. Otherwise, these parts will get damaged.
- Rear carrying iron was designed only to carry light loads.

10. TECHNICAL SPECS

Parameters	Characteristics	V01	V02	V03
Size	Full size (Length x Width x Height) (cm)	167 cm, 60 cm, 120 cm	174 cm, 60 cm, 124 cm	165 cm, 61 cm, 113 cm
	Folded (Length x Width x Height) (cm)	97 cm, 62 cm, 76 cm	100 cm, 70 cm, 76 cm	There is no folding characteristic
Weight	Net (kg)	22,2 kg	22,7 kg	24,5 kg
Main Characteristics	Maximum Speed (km/h)	25 km/h	25 km/h	25 km/h
	Range (km)	80-100 km/h It can vary based on usage conditions and pedal support	90-110 km/h It can vary based on usage conditions and pedal support	80-100 km/h It can vary based on usage conditions and pedal support
Battery Characteristics	Voltage (V)	36 V	48 V	36 V
	Capacity (Ah)	8,8 Ah	18 Ah	10 Ah
	Battery Management System and Battery Safety	High temperature, short circuit, low voltage and low overload protection with Electronic Battery Management System (BMS-Built)	High temperature, short circuit, low voltage and low overload protection with Electronic Battery Management System (BMS-Built)	High temperature, short circuit, low voltage and low overload protection with Electronic Battery Management System (BMS-Built)
	Charger Characteristics	Input: 220 AC/V Output: 42 V/2A	Input: 220 AC/V Output: 54 V/3A	Input: 220 AC/V Output: 42 V/2A
Engine Characteristics	Voltage (V) Power (W)	36V 250W	48V 250W	36V 250W
Indicator	Display Type	LCD Information display	LCD Information display	LCD Information display
Mechanic Gear		Pinion	Pinion	Pinion
Rim		28"	20"	26"
Body		Aluminium	Aluminium	Aluminium

You can reach locations of our authorized service shops by visiting our web page **www.VTAmobility.com**

MANUFACTURER COMPANY

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VALIDITY SCOPE AND CONDITIONS OF WARRANTY

1. Warranty period is two years, in order to have benefit from warranty, it is needed to submit Warranty Deed, this Warranty Deed should be stored during warranty period.

2. Whole product including its all parts are within the scope of warranty.

3. In case that it is understood that the good is defective, consumer can use one of following rights taking place in article 11 of Consumer Protection Law No 6502:

a) Rescission of agreement by stating that he/she is ready to return the good that is sold,

b) Demanding discount from sale price at the rate of defect by detaining the good that is sold,

c) Demanding repairment of the good that is sold as all expenses belong to the seller in case that it does not require an excessive expense,

d) Demanding replacement of the good that is sold with one which has no defect if possible.

4. In case of disputes that will arise within given warranty period, it is needed to submit its invoice and Warranty Certificate since its invoice will be taken into account.

5. When any temper is made on the invoice and warranty certificate, when it is determined that original serial number of the vehicle is removed or it is tempered, this warranty becomes invalid.

6. This warranty becomes invalid when it is determined that the vehicle is mounted, maintained or repaired in a place except one of our company's authorized service shops or that the vehicle is repaired out of authorized service shop.

7. Maintenance of the vehicles should be made by authorized service shops in the periods indicated in the handbook delivered with the vehicle. The vehicles those have no maintenance in time, will be out of the scope of this warranty.

8. This warranty given by our company, does not cover removing failures arisen as a result of using mentioned vehicle out of its purpose or under abnormal conditions, also below mentioned failures are out of the scope of this warranty:

- Failures arising as a result of adding part or parts those are not produced or sold by VTA.
- When the vehicle's parts take water as a result of washing with high pressurized water or passing through water deeper than its back-wheel mile level.
- Abrasion of parts such as axle, differential, transmission, engine and rim as a result of using the vehicles above their maximum carriage capacities indicated in technical documents.
- Failures arising from modifications performed without written approval of VTA.
- Aging, abrasion, performance loss of parts such as accumulator, brake lining, rubber etc.
- Charging the vehicle with a charger expect original one or charger failure due to reasons arising from electricity line and voltage variants and damaging the vehicle (accumulators).
- Accumulators expansion (swelling) or failures as a result of charging the vehicle more than charging period determined by the company
- Liquid contact on charger and other electronic parts.
- Loading dashpot and chassis connection elements above carriage limits written in this handbook or breaking and bending as a result of a severe impact.
- Damages and failures those will arise as a result of disaster such as fire, flood, flow and lightning.
- Accumulators are products those have shelf life. Accumulators those are waited for more than 90 days (by dealer or end consumer).
- Damages those will arise during transporting, loading, unloading and carrying the vehicle after it is delivered to a user.

9. None except a consumer those identity has been indicated in the invoice and Warranty Certificate, can demand a right or compensation.

10. The consumer can apply to Consumer Arbitration Committee or Consumer Court located in the place where a consumer transaction is made or settled in case of disputes those can arise related with using the rights arising from this warranty.

DÜZCE

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