

*****EVT-3W Operation Manual*****

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1. Introduction:

Dearest User:

1. Thank you for choosing the EVT Electric Scooter. We hope you have a pleasant time riding it.
2. This manual will help you understand the operation, basic inspection and maintenance of your scooter. It will also explain how to get the best performance and how to make your riding safer.
3. The contents of this manual may be slightly different from your scooter.
4. EVT Technology Co., Ltd. reserves the right of final explanation and modification of contents and specifications of this manual without notice.

2. Operation:

● Launch

1. Turn the key to “ON” position to turn the power on and wait till the flashing LEDs on the dashboard and starting beep sound stop in about 3 seconds, release the parking brake, and then gently twist the throttle to pull away the scooter. Do not twist the throttle while the LEDs are still flashing, if so, the warning beep shall sound. Please re-turn the key to “ON” position and wait till the flashing LEDs and starting beep sound stop.
2. For avoiding the injury, please keep your feet on the 2 footrest board before you start driving.
3. Do not leave the key in the “ON” position when the rider is not seated. Be sure to turn the key to “OFF” when the rider is not seated.

● On Driving

1. Release the parking brake; gently twist the throttle to pull away the scooter.
2. While braking, apply front and rear brakes together to prevent the scooter becoming unbalanced.
3. Keep the light on while driving at night or in dark condition. Always switch to low beam when on-coming traffic is approaching.
4. The driving range will be reduced in different driving conditions, i.e. : quick acceleration, excessive braking, lights on driving, head-wind, carrying heavy loading, slope climbing, low tire pressure, low temperature and insufficient recharge.
5. If power shut off whilst braking, release the brakes and power supply resumes automatically in 0.5 seconds.
6. Over heat and over current will reduce the power by half or shut it off completely. Please turn the key to “OFF” position, wait for few minutes till the system to cool down then turn the key to “ON” position to start driving again.
7. Quick acceleration from standstill, high degree slope climbing or heavy loading driving will make the battery voltage drop quickly. The controller will detect the battery low voltage and cut the power to protect the battery. Please turn the key to “OFF” position, wait for few seconds then turn the key to “ON” position to start driving again.
8. When around 10% of battery energy left (yellow LED on), quick acceleration may cut off the power. Strongly recommend to fully recharge when around 10% of battery energy left (yellow LED on).

● Parking

1. When the scooter is at a standstill, turn the main switch to the “OFF” position.
2. Remember to push the parking brake bottom to lock the front brake.
3. Turn the turning bar to the leftmost position and turn the key of main switch to the “Lock” position. Take the key out.



● Scooter Charging

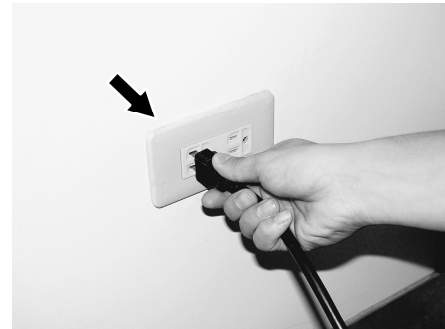
1. Make sure the scooter is at “OFF” position and with the key out.
2. The Charging time depends on the battery energy left. The standard charging time is 5 to 6 hours as power almost drained and will provide on average up to 90% battery energy. To fully charge up to 100% battery energy level shall take another 2 to 3 hours.

4. Charger working with Lead-Acid Battery

On-Board Charger

- a. Do not Charge the scooter outside in the rain.
Rain or moisture will damage the charger.
- b. Insert the AC connector into the standard outlet.
- c. Check the 4 LEDs on the dashboard to realize the charging condition.
- d. Unplug the AC connector after charging is completed.

4Leds on Dashboard	Status
LEDs constantly flashing in 2 seconds.	Charging in progress
LEDs on	Fully Charged
No LED on	Charger failure

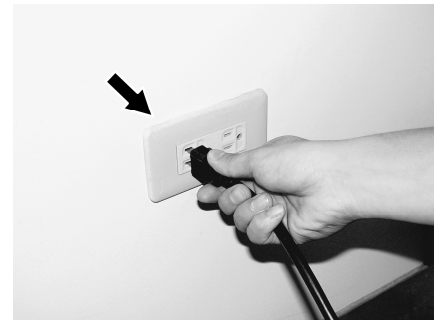


5. Charger working with Lithium Battery

Off-Board Charger

- a. Charger shall be put in the dry and ventilated area.
Rain or moisture will damage the charger.
- b. Insert the DC connector into the scooter firmly, and
the AC connector into the standard outlet.
- c. Check the LEDs on the charger to realize the charging condition.
- d. Unplug the AC and DC connector after charging
is completed.

Led on Charger	Status
Red LED on	Charging in progress
Green LED on	Fully Charged
No LED on	Charger failure



- 5. Different battery pack should work with different charger to assure the best recharging performance.
Recharging battery with wrong charger may cause serious damage to charger or to battery.
- 6. The battery life cycle will be reduced or damaged if insufficient charge status is retained for a long period of time.
Please keep charging the batteries in the sufficient status.
- 7. If the scooter is not going to be used for a long period, keep recharging the batteries at least once every two weeks.

3. Parts Position



★Side View



- 1.Front Wheel 2.Front Cover 3.Front Direction Indicator 4.Front Container 5.Front Lamp 6.Display Panel cover
7.Seat 8.Seat Lock 9.Tail Lamp 10.Rear Supporter 11.Rear Wheel 12.Rear Direction Indicator
13.Left Rear View Mirror 14.Right Rear View Mirror 15.Rear Brake Lever 16.Front Brake Lever

★Back View



- 1.Left Handle Bar 2.Horn 3.Direction Lamp Switch 4.Hi-Lo Beam Switch 5.Instrument Panel 6.Main Switch
7.Reverse Switch 8.Acceleration Cable 9.  Head Lamp Switch 9.  Kill Switch(US model) 10.P/E Mode Switch
11.Throttle 12.Parking Brake 13.Controller

4. Basic Functions

★Instrument Panel



1. Speedometer
2. Odometer
3. Overheat Indicator (O.H)
4. High Beam Indicator
5. Direction Lamp Indicator
6. Battery Energy Indicator (E-F) & Charging Status

Item	Name	Functions
1	Speedometer	Driving speed
2	Odometer	Mileage Recorder (km)
3	Overheat Indicator (O.H)	On - when temperature reaches upper limit
4	High Beam Indicator	On - when switch to high beam
5	Direction Lamp Indicator	On - when direction indicator selected
6	Battery Energy Indicator (E-F)	<ol style="list-style-type: none"> 1. Full Energy: First green light on 2. 50% Energy Left: Second green light on 3. 10% Energy Left: Yellow light on and warning beep sound (charging recommend) 4. Reached Lower Safety Limit: Red Light on (N.B). No energy (charging immediately)

★Main Switch



LOCK

Handlebar is locked. The key can be pulled out.

OFF

Power is off. The key can be pulled out.

ON

Power is on. The key cannot be pulled out.

REVERSE SWITCH

Switch backward, the scooter can run reversely.

Note: To prevent theft, remember to turn the key to the correct position and take the key out when parked.

★Lock Method

Turn the turning bar fully to left, press the key and then release, turn the key to the lock and shake a little bit. The key can be turned to the correct position and pulled out.


★Release the Lock

Insert the key, shake the turning bar a little bit. The key can be turned to the correct position and the lock is then released.

★ Left Handle Bar Control and Switch





1. Hi-Lo Switch for Headlamp: When front lamp switch is on

(1)  -Front lamp is on high beam

(2)  -Front lamp is on low beam

2. Switch of direction lamp:

(1)  -Front right, rear right direction lamp flashing and intermittent beep sound.

(2)  -Front left, rear left direction lamp flashing and intermittent beep sound.

Note: After turning, push the bottom on the switch to switch off.

3. Horn Button: Horn sound while pressing down.

4. Rear Brake Lever: Hold tight to break the rear wheel and cut off the power. If the power cut off while braking, release the lever and the power will resume automatically.

★Right Handle Bar Control and Switch



1. Acceleration Throttle: Will vary the speed and power when twist by different amount.
2. Headlamp Switch:
 - ☀ -Front Lamp, display panel lamp and tail lamp on.
 - -Front Lamp, display panel lamp and tail lamp off.
2. Kill Switch: (US model)
 - ⊗ -Kill Switch “ON”- Scooter will sound an alarm if started in this position.
 - ⤵ -Kill Switch “OFF”- Normal operations position for this switch.
3. Switch for Power/Economic (P/E) Mode.
Selected by user when driving on different road conditions.
4. Front Brake Lever: Hold tight to break the front wheel and cut off the power, If the power cut off while braking, release the lever and the power will resume automatically.

Notes:

- *Twist the acceleration throttle slowly when pulling away. When the scooter starts to move the throttle can be turned more to reach the required speed.
- *When the scooter is parked and no one is seated or the rear wheel is on the ground, do not twist the throttle. Otherwise, it is possible for the rear wheel to be driven.
- *Release the throttle before applying the brake levers and release the levers before reapplying the throttle to drive.

*There is no sound when the main switch is at “ON” position; the motor is also on and in standby position. For safety reason, the yellow LED shall be flashing and with beep warning 10 seconds while the scooter is at “ON” position for 5 minutes without any moving. Return the key to “ON” position to restart the scooter. Always take the key out to prevent serious damage or injury happen if there is no rider on the scooter.

★Seat Lock

1. Insert the key to the seat lock and turn to the right, the lock will release.
2. Lift up the seat.
3. Close the seat with a little pressure and it will lock automatically, try to lift the seat to make sure it is well locked.



★Helmet Clip

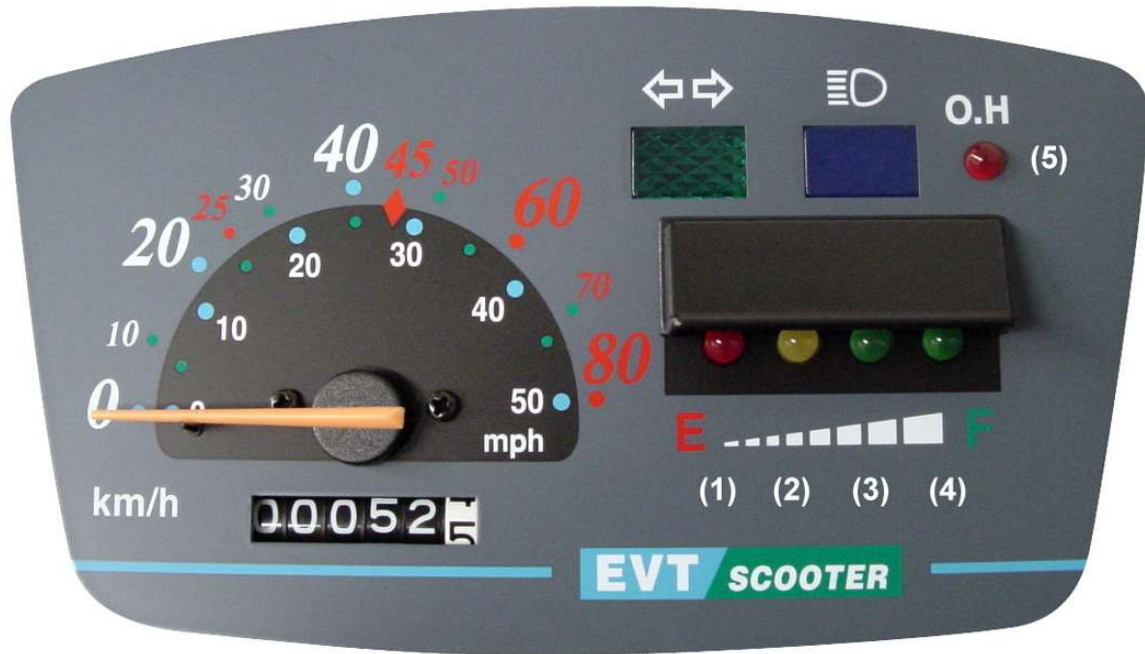
1. Open the seat.
2. Place the helmet clip ring on the clip.
3. Close the seat to lock automatically.
4. Repeat this process to remove the helmet.

5. Inspections (Prior to driving)

Maintaining regular inspection will improve driving safety.

1. Tire: Pressure, Gaps, Any Cut, Damaged.
2. Brakes: Gaps of left and right brakes are normal (1-2cm is normal). Sufficient brake fluid.
3. Lamps: Direction Lamps, Brake Lamps, Front Lamp.
4. Rear View Mirrors: The angles are correct.
5. Turning Bar: Operating smoothly.
6. Energy Indicator: Battery energy is sufficient for reaching to the destination.

Instrument Panel (Trouble Shooting & Repair)



6. Trouble Shooting and Repair (1)

Conditions	Inspect	Repair
Instrument Panel LED is working, but there is no move while twisting throttle.	<ol style="list-style-type: none"> 1.The power will cut off while braking 2. Brake switch breakdown. 3. Motor breakdown. 4. Controller breakdown. 	<ol style="list-style-type: none"> 1.Release the brake and then gently twisting throttle. 2~4.See your agent
Instrument Panel LED is not working or no starting beep sound while you turn the switch to the “ON” position.	<ol style="list-style-type: none"> 1.Has the fuse blown? 2.Serious insufficient energy left. 3.Key switch breakdown. 4.Controller breakdown. 5.Display panel breakdown. 	<ol style="list-style-type: none"> 1. Remove the fuse and replace or see your agent 2. Recharge battery 3~5.See your agent
The first red LED flashing (1)	<ol style="list-style-type: none"> 1.Serious insufficient energy left 2.The battery is aged or useless 	<ol style="list-style-type: none"> 1.Recharge battery immediately 2.Replace the battery
The second yellow LED flashing (2)	Insufficient energy left	Recharge battery
The third green LED flashing (3)	DC converter	See your agent

7. Trouble Shooting and Repair (2)

Conditions	Inspect	Repair
4 LEDs flashing sequentially	1.Throttle stuck 2.Twisting throttle to pull away after the panel indicator stops flashing or the starting beep sound stops	1.See your agent 2.Switch the power to “OFF” position, and wait for few seconds to restart
The OH indicator lit(5)	1.Controller over heat 2.Controller breakdown	1.Switch the power to “OFF” position, and wait for several minutes than restart. 2.See your agent
The OH indicator flashing	1.Motor over heat. 2.Motor breakdown.	1.Switch the power to “OFF” position, and wait for several minutes than restart. 2.See your agent.
The first red LED lit (For scooter working with lithium battery only)	Battery pack breakdown.	See you agent.

Notes: (US model)

Switch on “Kill Switch” should cut off the power, switch off “Kill Switch” and return the key to “ON” position to start moving scooter. Scooter must be started with “Kill Switch” in the off position to function.

8. Periodic Maintenance Table

A: Inspection C: Clean T: Tighten

Item		1	2	3	4	5	6	7	8	9	10	11	12	13	14
Mileage(km)		400	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000	More
A. Controller								A							A
B. Battery				A				A			A				A
C. Charger				A				A			A				A
D. Safety	1.Pressure		A	A	A	A	A	A	A	A	A	A	A	A	A
	2.Tire							A			A				A
	3.Brakes	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	4.Brake Linings							A			A				A
E. Lamp, Horn		A	A	A	A	A	A	A	A	A	A	A	A	A	A
F. Screws		T	T	T	T	T	T	T	T	T	T	T	T	T	T
G. Turning & Transmission		A		A				C			A				C

REPEATITEM2-13

9. Specifications (1) EVT-3W *Lead-Acid Battery

BRAND		EVT	FRAME		UNDER BONE		
MODEL		EVT-3W	TXS	TYPE	DIRECT DRIVEN		
DIMENSION	LENGTH	1780 mm		BATTERY	GEAR RATIO	DIRECT DRIVEN	
	WIDTH	900 mm	TYPE		SEALED LEAD-ACID		
	HEIGHT	1020 mm	VOLUME		12V/50Ah x 4		
	AXLE LENGTH	1280 cm					
SUSPENSION		FRONT	TIRE SIZE		FRONT	3.00-10	
		REAR			REAR	100/60-12	
PERFORMANCE	MAX.SPEED		BRAKE		FRONT	DRUM BRAKE	
	CLIMBING(tanθ)				REAR	DISK BRAKE	
	RANGE		40 km	SPEEDO METER		80 km/hr	
MOTOR	TYPE	DC48V BRUSHLESS	LAMP	FRONT LAMP		12v 35w/35w 12v 45/40w(US model)	
	CONTROLLER	PWM		PLATE LAMP		12v/5w	
	POWER			RATED1500W	BRAKE LAMP		12v/21w
					DIRECTION LAMP		12v/10w x 4

10.Specifications (2) EVT-3W *Lithium Polymer Battery

BRAND		EVT		FRAME		UNDER BONE			
MODEL		EVT-3W		TXS	TYPE		DIRECT DRIVEN		
DIMENSION	LENGTH		1780 mm		GEAR RATIO		DIRECT DRIVEN		
	WIDTH		900 mm		BATTERY	TYPE		LITHIUM POLYMER	
	HEIGHT		1020 mm			VOLUME		49.4V/60Ah	
	AXLE LENGTH		1280 cm						
SUSPENSION		FRONT	HYDRAULIC SHOCK ABSORBER		TIRE SIZE		FRONT	3.00-10	
		REAR	HYDRAULIC SHOCK ABSORBER				REAR	100/60-12	
PERFORMANCE	MAX.SPEED		25/45 km/hr		BRAKE		FRONT	DRUM BRAKE	
	CLIMBING($\tan\theta$)		12°				REAR	DISK BRAKE	
	RANGE		80km		SPEEDO METER			80 km/hr	
MOTOR	TYPE		DC48V BRUSHLESS		LAMP	FRONT LAMP		12v 35w/35w 12v 45/40w(US model)	
	CONTROLLER		PWM			PLATE LAMP		12v/5w	
	POWER		RATED1500W			BRAKE LAMP		12v/21w	
						DIRECTION LAMP		12v/10w x 4	