

## Taizhou Fansibai Motorcycle Co., Ltd.

https://www.fastfuriousscooters.nl





We strongly recommend that you read this entire manual before using your vehicle for the first time

# **Contents Page**

General Instruction before riding **Point Inspection Assembly Instructions Technical Specifications** Parts List **Front Display** Ignition Key Positions Handle Bar Controls Accelerating & Braking **Battery & Charging** Performance Maintenance Maintenance Schedule **Frequently Asked Questions Special Maintenance Warning Signals** Troubleshooting

Page 2 Page 3 Page 4 Page 5-6 Page 7 Page 8 Page 9 Page 10 Page 11 Page 12 Page 13 Page 14 Page 15 Page 16 – 17 Page 18 Page 19 – 20





- To ensure the vehicle is functioning correctly, do a quick check of the vehicle's tires and check that the brakes are working. (For more detailed maintenance instructions see the Maintenance Schedule). Your vehicle has been thoroughly checked by our engineers before delivery. but on the spot checks are equally important.
- 2) When the key is inserted and turned to the "ON" position, the power indicator will illuminate. If current drain is over 80A, the power will be automatically cut off to avoid over-heating.
- 3) To avoid unplanned acceleration, always turn the key to the "OFF" position before dismounting or leaving the bike unattended.
- 4) SAFETY NOTICE: Be sure that you are seated on the bike and stands are clear of the floor before touching the throttle handle. If you twist the throttle before you are ready to go or while you are mounting the bike it may run away from you and could lead to an accident.
- 5) This vehicle may be ridden in wet conditions, but be sure to avoid soaking it during cleaning to avoid damaging any of the electric components.
- 6) The vehicle should not be left in strong, direct sunlight for long periods as some of the electric components may overheat.
- 7) Motorcyclists must abide by the same traffic rules and regulations as other motorists. Before taking your motorcycle on a public road, be familiar with traffic rules and regulations and any special requirements for motorcycles.
- 8) **Never drink and ride**. Alcohol slows reflexes and greatly limits your ability to operate a motorcycle. Even a very small amount of alcohol will reduce your ability to operate a motorcycle safely.
- 9) Frequently ride at economical speed will be great help on battery life and range. Especially at crowded city traffic.

### Point Inspection before every use

Item	Action			
Front Brake	Squeeze right hand brake and push the vehicle to see whether it rolls easily. If it does, then the brake must be tightened. Tighten the bolt until the vehicle will no longer move with the brakes applied.			
Rear Power/Disc Brake	Listen for any noticeable grinding or squealing from the tires while the brake is applied. If so, contact the supplier. Set the bike upon the middle stand, and turn the rear wheel by hand. If it does not turn freely, adjust rear disc to avoid electric consumption.			
Brake Fluid	Check fluid gauge on the left handlebar to ensure that the brake fluid is above the indicated level. If not, top it off with a good brand of brake fluid.			
Electric Switch Handle	Turn Throttle counter clockwise then release; the Throttle should spring back to stop position. If not, contact your supplier.			
Tires	Check the tire pressure is 36 PSI 确认胎压是 36PSI			
Controller/ Motor	Check the usage and condition			
Battery	Check the power level by looking at the gauge or with a voltage meter Lithium battery is 84V-60V			
Signal	Check to make sure your lights are working.			
Nuts and Bolts	Check to make sure that all nuts and bolts are tightened and secured.			

### **Important Notes**

1.Regularly perform a routine maintenance check. Doing so will help protect yourself and your vehicle.

2.If any parts are damaged, whether normal or abnormal, please check with the supplier before riding.

## **Assembly Instructions**

### Installing the mirrors

- 1. Mirrors can be easily fixed to the handle bars between the grips and the brake handle.
- 2. Screw in the mirror clockwise. The mirror that goes on the left controller is curved to the left and the mirror that goes on the right controller curves to the right.
- 3. Secure mirror by tightening the bolt.
- 4. Clean and adjust both mirrors before you ride. Adjust each mirror so you can see the lane behind you and as far as possible the lane next to you. When the mirror is properly adjusted you can see the edge of your arm and shoulder.



5. Insert axle and brake disc before installing front wheel



# **Technical Specification**

F3 TECHNICAL DATA rear wheel side motor				
Motor (W) 72V 2000W				
Battery (V)(AH)	72V/16Ah Lithium battery *2			
Communication System	CAN	[		
	speed	range		
Speed	25KM/h	96KM		
	45KM/h	92KM		
E-mark certificate No.	e13*168/2013	*00689*00		
Category	L1e-H	3		
Charger Input Voltage	110V-23	30V		
Charger	84V 10A			
Charging Time	3.5 hours			
Max.Load	261 Kg			
Climibing Capacity	15%			
Brakes (F/R)	disc/ disc with CBS			
Brake Control hand		ake		
	FR: 100/80-16 RR: 120/80-14			
Tire front/ rear	FR: 90/80-16 RR: 100/70-14			
	FR: 90/80-16 RR: 110/80-14			
Wheel base 1435mm		m		
Net Weight 111kg		2		
Gorss Weight 125kg		<u> </u>		
Apparent size	1995*690*1115mm			



F5 TECHNICAL DATA rear wheel side motor				
Motor (W)	72V 3000W			
Battery (V)(AH)	72V/21Ah Lithiu	m battery *2		
Communication System	CAN	[		
Speed	speed	range		
Speed	75KM/h	87 KM		
E-mark certificate No.	e13*168/2013*	*00691*00		
Category	L3e-A	.1		
Charger Input Voltage	110V-23	30V		
Charger	84V 10	)A		
Charging Time	4.5 hours			
Max.Load	265 Kg			
Climibing Capacity	15%	15%		
Brakes (F/R)	disc/ disc wi	disc/ disc with CBS		
Brake Control	hand brake			
	FR: 100/80-16 RR: 120/80-14			
Tire front/ rear	FR: 90/80-16 RR: 100/70-14			
	FR: 90/80-16 RR: 110/80-14			
Wheel base	1435mm			
Net Weight	115kg			
Gorss Weight	129kg			
Apparent size	1995*690*1115mm			





### **Parts List**

- A. Head Lamp
- B. Rear View Mirror
- C. Throttle and Brake Lever
- D. Front Turning Signal Lamp
- E. Front Shock Absorber
- F. Front Tire
- G. Seat
- H. Side Stand
- I. Center Stand
- J. Rear Side Motor
- K. Rear Tire
- L. Rear Reflector
- M. Rear Shock Absorber
- N. Rear Turning Signal Lamp
- O. Rear Carrier
- P. Battery Box
- Q. Front disc Brake
- R. Charging Socket
- S. Rear Side Reflector
- T. Taillight

# Dashboard

Part	Item	Function
Α	Left Indicator	Light is on when indicator is on
В	Right Indicator	Light is on when indicator is on
С	High beam	Light is on when high beam is on
D	Error code	Light is on when there is any problem
E	Battery SOC	Total 10 grid
F	Three mode	SOC%; ODO; TRIP
G	Speedometer	Indicates speed



Ignition Key					
Key Position	Description				
On	Key cannot be taken out when power is on.				
Off	Key can be taken out when power is off				
Lock handle bar	To prevent theft, turn the Handle Bar to the far left and turn the key into the lock position. The key can be taken out when handle bar is in the lock position.				





## Left handle bar controls

Headlight Switch	High Beam – Push switch up Low Beam – Push switch down
Signal Switch	Left Turn Signal – Slide switch to the left Right Turn Signal – Slide switch to the right Turning off Signal – Press central release button
Horn Button	Sounds Horn – Push the button on the left.
Rear Brake Lever	When Brake Handle is compressed the rear wheel will slow to a stop and power will be cut off. Power will flow once lever has been released.

## **Right handle bar controls**

Front Brake Lever	When brake handle is compressed the front wheel will slow to a stop and power will be cut off. Power will flow once lever has been released. To start, turn the throttle counter clockwise.
Throttle	Turn throttle counter clockwise to increase speed.
Warning Light	<ol> <li>Slide switch to the left , front and rear turn light on.</li> <li>Slide switch to the right, front and rear turn light off.</li> </ol>



## Accelerating and Braking

### **Throttle Tips**

- 1. Turn the key to the 'ON' position, Press a button, and turn the Throttle gradually to accelerate after heard a beep sound.
- 2. To prevent losing control of the vehicle, please turn the Throttle slowly until the speed increases.
- 3. Do not turn the Throttle until you are in the position to drive.
- 4. To stop, release the throttle and apply the front and rear brake simultaneously.
- 5. To move, release the brakes and turn the Throttle gradually. The motor makes a small electromagnetic noise when turning the Throttle to start. This is normal.
- 6. Please, for your safety and security, take the key out when you are not riding.

### **Braking Tips**

- 1. For safety, this vehicle has a CBS system, when braking rear brake lever, front and rear brake pump working together, when braking front brake lever, only front brake pump working.
- 2. Less frequent sudden braking will increase range entirely. If running under top speed, do not continually operate at full throttle. Frequently releasing the throttle and running with inertia will help to much increase your range. This motor has good torque and the inertia momentum is enough to run some distances without electric power.



## **Battery Gauge and Charging Instructions**

Grid	Description
10 grid	While riding, when the battery is fully charged the dashboard shows 10grid.
1 grid	When the dashboard shows 2 grid, that means there is not much power remain in battery. Ride at" Economical speed" and find the nearest charging point.

### Charging

- The battery for this vehicle can be charged on the vehicle or be taken out, maintenance free D/C battery. The owner must use the factory-supplied charger with an 110V (or 220V) outlet.
- Turn off ignition switches while charging the battery. Plug one side to an 110V (or 220V) outlet and the other into the charging plug on the vehicle (located under the seat).

The charging time is 3.5hour (80%) for lithium battery. To fully charge battery, charging time will be 4 to 5 hours.

After charging, and unplug the charger from both sides.

To keep the battery in good condition, charge it after each use. Please charge the battery fully once a month, even when the vehicle has not been ridden.



### **Battery Longevity**

The driver should, if possible, charge the scooter after every trip as this will help the battery's life. The life of the Lithium battery is 1100 deep cycles (80% deep discharged), but if you not charge the battery every time or when its capacity falls below 50%, the battery life will be greatly increased. Therefore we advise the rider to charge the bike as often as possible. Frequently ride at economical speed would be better for battery life and range.

# Performance 表现

- A range of 70Mile (100km) has been recorded, yet the distance and speed depend upon various elements of the rider's style and the road conditions. A 45km/h constant speed will ensure the longest range but our figures include going flat out too. Other factors include weather, vehicle condition, and battery charge. Drivers must be cautious when driving on rough roads, in poor weather, or when the battery charge is low.
- After each trip, the driver should turn off the vehicle, take out the key and charge the battery. This battery does not have memory (i.e. you do not have to run it down completely to achieve a good charge. On the contrary, regular charging will lengthen the life of the battery) and can be charged at any time in the cycle of the battery.



Always check the battery gauge while you are riding

and be sure that it does not get too low too often.

### Maintenance

This electric motorbike represents a new generation of environmentally friendly two-wheeled transportation. Therefore, good maintenance will play a major role in keeping your vehicle in good working condition and prolonging the life of the batteries. Please follow these suggestions:

- To prevent rust always keep your vehicle dry and clean.
- Regularly check the front and rear tires, suspension and body frame and all fasteners.
- When riding in rain do not go through deep puddles or muddy areas; excessive water will cause the motor and other electrical components to suffer undue harm.
- To prevent rust from forming on the vehicle, avoid parking your vehicle in high humidity and corrosive areas.
- To avoid damage to the electrical parts of this vehicle, especially the controller, do not park the vehicle in direct sunlight or in heavy rain.
  - Due to the complexity of the electronic manufacture of this vehicle, customers should never attempt to take out any of the parts, or attempt major maintenance without consulting the supplier (this will invalidate the warranty).
    - Never overload and ride the vehicle for an extended period of time, prolonged use with excessive weight could cause serious damage to the electronic and mechanical parts.
    - Always check your vehicle and perform necessary routine maintenance
       tires, brakes, nuts and bolts.
    - For your safety, perform routine maintenance on your vehicle. This will lower the potential for damage.

# **Maintenance Schedule**

Milaana	400	1000	2000	3000	4000	5000	6000	Maintenance
Mileage	400	1000		3000	4000	3000		Maintenance
Battery			С				С	
Charger			С				С	
Tire								
Pressure	С	С	С	С	С	С	С	А
Tire Wear							С	
Brake								
System	С		С		С		С	Α
Brake Pad							A	
Nuts and Bolts	Т		Т				Т	
Mileage		7000	8000	9000	10,000	11,000	12,000	Maintenance
Battery			С				С	
Charger			С				С	
Tire							7	
Pressure		С	С	С	С	С	С	А
Tire Wear			С				С	
Brake								
System			С		С		С	А
Brake Pad			А				А	
Nuts and								
Bolts			Т				Т	

A: Adjust 调整

C: Check 检查 T: Tighten 加紧



## **Frequently Asked Questions**

### 1. Fully charged, what is the range of the electric vehicle?

**A.** The Range is affected by the weight of rider, the type of terrain and the speed at which the vehicle is driven. Under optimal conditions keep a steady 45km/h rate speed), a range of (92 *km*) has been recorded on a single charge.

**B.** See the specification sheet for the full range and speed of the models.

# Is riding an electric vehicle a comfortable riding experience? A. Riding an electric vehicle is indescribably more comfortable than riding a assoling motor vehicle. The silence and the smoothness of a direct drive

gasoline motor vehicle. The silence and the smoothness of a direct drive electric-motor-powered vehicle are incomparable

### 3. Do you have to warm-up the electric vehicle before riding it?

**A.** When the driver turns the ignition key, two beeps will immediately follow telling the driver that the vehicle is ready to drive. There is absolutely no warm-up time needed. Just turn the throttle and you are ready to go. It cannot be any easier.

#### 4. What about maintenance?

**A.** This motor bike is designed for minimum maintenance. Considering the fact that this vehicle has no combustion engine, no transmission, no belts, no chains, no gasoline, no lubricants, no ignition plugs, no carburetor, etc. Modular designed components are practically maintenance free. The unique design of the direct drive system and the total absence of belts or chains make this vehicle much easier to maintain than other electric scooters. Practically any scooter dealer can do most of the maintenance that may be required. The brushless motor is precisely that so there is never a need to change the brushes.

### 5. What about parts, is it a problem getting parts for the F3 and F5?

**I.** ALL parts can be purchased directly from the supplier including batteries, tires, bulbs, body shells, seats etc.

# 6. Can the electric vehicle be cleaned or washed with water without any concern?

- **A.** Due to its waterproof wiring bundle and Direct Current source and 72V system design, there is no danger when the vehicle gets wet.
- **B.** However, one should be careful not to pour water directly into the charger outlet, the controller and the internal battery set when washing or cleaning.

#### 7. Do you need to wear a helmet to drive the electric vehicle?

**A.** For safety reasons we always advise the use of a helmet. However, local law dictates whether or not riding vehicle law obligates a helmet.

#### 8. Is it easy to recharge the batteries?

**A.** Yes, it is very easy. The user just needs to insert the input plug of the Battery Charger into any regular wall outlet of AC110V (or AC220V) and the output plug into the inlet on the right rear side of the vehicle, which is clearly marked. This will start to recharge the batteries. Daily charge of the battery will lengthen its life cycle,

## **9.** How long will the batteries last, what is the batteries life cycle? A.The battery's life cycle will be reduced or damaged if an insufficient charge level is retained for a long period of time. Depending on the user's operation, 1100 Deep Cycles for lithium battery

#### 10.How can I know the batteries condition and energy level?

**A.** The display panel includes a battery indicator, which clearly indicate the power level of the batteries in your vehicle.

I. FULL: 10 grid

III. Low Voltage: ECC start to blink, SOC lower 20%.

# 11.If one of the batteries has a problem do I need to change all the batteries?

**A.** Not necessarily. Simply check the condition of all batteries and only replace the battery which shows lack of voltage.

#### 12.Can a rider get burned while riding the electric vehicle?

**A.** Riders will not get burned from riding the electric vehicle. The vehicle does not have an exhaust pipe like in gasoline scooters. Nothing heats up.



#### 13. Why is this product the best available in the world today?

It has a Brushless motor. We emphasize "**brushless**" not just because this is the latest technology, but because these permanent magnet motors are supremely reliable! These more expensive motors produce high torque at low speeds, keeping an acceptable balance of torque and energy across the whole speed range. Often other types of electric vehicles on the market today will still use sealed brush-type motors that are dependant upon brush life that build up brush dust (residue) and susceptible to wear over time which may affect maximum speed and electrical noise or become problematic in other ways. Because these brush-type motors are sealed, it often takes an expensive motor replacement to get them working again.

#### 14. What is the Manufacturer Warranty?

Go to www.fdmotors.cn for warranty information on this model.



## Troubleshooting

Problem	Condition	Check	Solution			
When I turn my vehicle on nothing happens. (lights off, speedometer off, horn off)	1. Light off, horn off, press starter button, throttle, motor can work	1.Check DC-DC input and output voltage is work or not, check the plug is tighten or not, check the fuse is fusing or not.	1.Change DC-DC convertor , Fasten plugs, or change fuse.			
	2. Light off, horn off, press starter button, throttle, motor can not work	2.Check battery connectors is loosen or not, ignition lock connectors is loosen or not, and check the battery output voltage is normal or not.	2. Re-connect all connectors, or change a battery to check.			
The Throttle does not work or switch on, the vehicle moves without acceleration.	The Throttle does not return to stop position.	1.Check the grip for damage	1.Use an inner hexagonal tool to adjust the throttle or change a new one.			
	The throttle can work, but vehicle can't work	Check the connectors between throttle and MCU is loosen or not.	Re-connect the connectors.			
The batteries do not take a charge.	Charger light is off	1. Check the charger plug position.	1. Check by unplugging charger and plugging in again.			
Remark: Pls contact local dealer if u can't solve the problem.						

