



F5 & F5-A Electric Scooter with Pro variants

Operation & Maintenance Manual with product catalogue also serves as warranty card.

Updated for Pro Variant

We strongly recommend reading this manual before your first ride.

Be aware! www.cnfdmotors.com is the sole official website of the manufacturer. Beware of fake websites. We won't be responsible for any losses due to fraudulent sites or scammers impersonating FD Motors as the manufacturer.

Welcome aboard your vehicle

This vehicle user manual contains the information necessary: – for you to familiarize yourself with your vehicle, to use it to its best advantage and to benefit fully from all the functions and the technical developments it incorporates.

- to ensure that it always gives the best performance by following the simple, but comprehensive advice concerning regular maintenance.
- to enable you to deal quickly with minor faults not requiring specialist attention.

It is well worth taking a few minutes to read this manual to familiarize yourself with the information and guidelines it contains about the vehicle and its functions and new features. If certain points are still unclear, our authorized dealers will be pleased to provide you with any additional information.

The descriptions of the models given in this manual are based on the technical specifications at the time of writing. This manual covers all items of equipment (both standard and optional) available for these models, but whether or not these are fitted to the vehicle depends on the version, options selected and the country where the vehicle is sold. This manual may also contain information about items of equipment to be introduced later in the model year.

IMPORTANT THINGS TO KEEP IN MIND

The FD Motors scooter is a new age electric vehicle and has some key differences in its characteristics compared to a traditional vehicle you might have used before. We recommend you familiarize yourself with the features, controls and notifications for optimal performance and safe riding experience.

DO'S

- Before your first ride, it is recommended to charge your scooter to 100%.
- FD scooter is designed to the highest safety standards. But in case of an unlikely event of a spark or fire, stop immediately.
- First, use water to cool down the battery to avoid further combustion.
- Next, use a D-type fire extinguisher and maintain safe distance from the scooter.
- While washing and cleaning, ensure that the charging flap and cover is closed properly.
- When your battery goes below 20%, your scooter needs to switch to Eco mode ride below 25kmph and try to maximize your range.
- Extended or repeated driving at low battery level may impact battery health and does not provide the range as expected. If your battery level is low, charge as soon as possible.
- If not using your scooter for long, keep charging it every week or activate the vacation mode to avoid complete discharge.
- Ensure that the electric socket and fittings of the charging area are compliant with housing safety requirements including but not limited to proper earthing.
- Ensure that the battery is charged to 100% at least once in 30 days to maintain battery health.
- Refer to the latest version of Owner's manual in the website/ask to authorized showroom/dealer for information on latest features and technologies, as they are subject to change.
- Check tyre pressure every month for optimum tyre life and range.

DONT'S

- Don't tamper with components or electrical wirings as it may void your warranty. It might also cause a short-circuit, resulting in fire or electric shock.
- Avoid parking in spots with extreme heat or waterlogging.
- Don't insert any sharp objects in the charging port as it may damage the charging point.
- While cleaning the vehicle, avoid removing accessories like side mirrors. Fitting them back will require the guidance of our Service Champion.
- Avoid trying to accelerate while pressing the brake levers.
- Do not charge your scooter in closed confined spaces such as a closed room. Avoid storing valuables in the buddy space. It is only intended for temporary storage of small items while riding.

- Do not park on sloppy roads and get your scooter falls back, this will create major problems in electrical and battery range.

FD MOTORS PRACTICAL RANGE

The tested *range is 120 km, (F5A 40/43ah) 200km (73ah) the scooter should be under these conditions:

- Number of riders: 1
- Weight of rider maximum: 70 kg
- Additional load on vehicle: Nil
- Roads: City driving conditions with max 1% incline (maximum of 5km), Normal should be in plain road, without any traffic disturbance.
- Ride mode: Eco
- Ride style: Moderate (20-25 km/h) Maximum speed.
- Weather: Moderate (24-35 °C)

If you are experiencing a range that is less than mentioned here, then you likely have considerable variance in one or more of the parameters mentioned. Tested range is different from practical range and this tested range is performed in the road where above parameters are met. Range may vary depending upon the driving pattern also.

The range tested under the above parameters is the maximum range of the vehicle.

**Range may vary based on load, terrain, weather, etc,*

Your FD scooter comes with a powerful electric motor - which means throttle response is fast. Be careful on your first few twists of the throttle, until you master it!

RIDING MODES

- Press the Mode button on the right control switch press from P to 00 to get start:

ECO* Mode 1

- Extend the range for city riding. Activate by long-pressing the Mode button for 1 second.

NORMAL* Mode 2

- Ideal for riding through city traffic with optimum acceleration and high range.

SPORT * Mode 3

- Perfect for quick riding on empty roads with high acceleration and speed.

PARKING STAND

when the parking stand is open. You won't be able to move to riding state till you retract it

F5 A (with pro variant) TECHNICAL DATA rear wheel PMSM side drive gear motor		
Motor (W) PMSM	72V 3000W	
Battery (V)(AH) F5A	72V/40Ah/43ah/73ah LFP/NMC	
Battery cells type	Lithium Cells	
Communication System	CAN	
Model Name: F5A		
Top Speed	75Km/Hr	
Charger Input Voltage	220V	
Ground Clearance	200MM +-10mm	
Charger	87.6V 10A/84v 10A	
Charging Time	3.5 hours with 10A (20-80%)	
Max.Load	261 Kg	
Climibing Capacity	15%	
Brakes (F/R)	disc/ disc with CBS	
Brake Control	hand brake	
Tire front/ rear	FR: 100/80-16 RR: 120/80-14	
Wheel base	1435mm	
Apparent size	1995*690*1115mm	
Warranty	Motor	5 Years
	Battery	5 Years

General Instructions Before Riding

-  Check tires and brakes before every ride.
-  Turn key to “ON” to activate power.
-  Power cuts off automatically if current exceeds 80A.
-  Always turn key to “OFF” before dismounting.
-  Sit down and ensure stands are up before twisting throttle.
-  Avoid prolonged exposure to direct sunlight.
-  Ride in wet conditions is okay, but avoid soaking during cleaning.
-  Follow all local traffic laws.
-  Never ride under the influence of alcohol.
-  Ride at economical speeds for better battery life.

Point Inspection Checklist

Item	Action
Front Brake	Squeeze right lever; tighten if scooter rolls.
Rear Brake	Listen for grinding; adjust if wheel doesn't spin freely.
Brake Fluid	Check level on left handlebar; top off if low.
Throttle	Twist and release; should return to stop position.
Tires	Front: 2.2 bar / Rear: 2.4 bar
Controller / Motor	Inspect for wear or damage.
Battery	Check SOC % on dashboard.

Item	Action
Lights & Signals	Ensure all are functional.
Nuts & Bolts	Tighten as needed.

Assembly Instructions

-  Install mirrors: Left mirror curves left, right mirror curves right.
-  Screw in clockwise and tighten bolts.
-  Charge battery before first use.

Parts Overview

- Headlamp
- Rear View Mirrors
- Throttle & Brake Levers
- Signal Lamps (Front & Rear)
- Shock Absorbers
- Tires (Front & Rear)
- Seat & Stands
- Rear Motor
- Reflectors
- Carrier & Battery Box
- Charging Socket
- Dashboard & Taillight

Dashboard & Display

-  **Battery SOC:** 10-segment display via CAN

-  **Indicators:**
 - Left / Right Turn: Green
 - High Beam: Blue
 - MCU Warning: Amber
-  **Speedometer**
-  **Modes:** SOC %, ODO, TRIP
-  **Backlight:** Adjustable (100% → 25%)
-  **Error Codes:** Long press Select(H) to view DTCs

Diagnostic Trouble Codes (DTC)

Battery Errors

Code	Issue
A10	No Data
A11	BMS CAN Failure
A12	Charging Over Voltage
A13	Charging Over Current
A14	Discharging Under Voltage
A15	Discharging Over Current
A16	Short Circuit
A17	Charging Over Temp
A18	Discharging Over Temp
A19	Charging Under Temp

MCU Errors

Code	Issue
C10	No Data
C11	ID Error
C12	Over Voltage
C13	Low Voltage
C15	Motor Not Starting
C17	Over Temp
C18	Throttle Error
C25	Motor Over Temp
C26	Hall Sensor Error

Ignition Key Positions

Position	Function
ON	Power on, key locked
OFF	Power off, key removable
LOCK	Handlebar lock for security

Handlebar Controls

Left Side

- High / Low Beam
- Turn Signals
- Horn
- CBS Brake Lever

Right Side

- Front Brake Lever
- Throttle (twist counterclockwise)
- Hazard Light Switch
- Reverse Button (Red)

🏁 Acceleration & Braking

- Turn key ON → Press Start → Wait for beep → Ready to go
 - Twist throttle gently to accelerate
 - Release throttle + apply brakes to stop
 - CBS: Left lever brakes both wheels; right lever brakes front only
 - Use inertia to extend range
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🔋 Battery & Charging

- Charge with factory charger only
- Plug into 110V–230V outlet
- Charging time: ~3.5 hrs (20–80%)
- Charge when SOC < 20%
- Ideal storage: 50–60% SOC
- Battery life: 2000–2500 deep cycles
- Stop charging at ~90% to extend life

🚀 Performance

- Max range: 120 km (at 30–40 km/h)
- Factors: speed, terrain, load, weather
- No memory effect—charge anytime
- Always turn off and remove key after use

Maintenance

- Keep vehicle clean and dry
- Avoid deep puddles and direct sunlight
- Check tires, brakes, bolts regularly
- Do not disassemble electronics—contact supplier
- Avoid overloading

Maintenance Schedule

Mileage (km)	Battery	Motor Oil	Charger	Tire Pressure	Brake System	Brake Pads	Nuts & Bolts
500–6000	C	Yes (every 5000 km)	C	C	C	A (every 8000 km)	T
7000–12000	C	Yes (every 5000 km)	C	C	C	A (every 8000 km)	T

C = Check, A = Adjust, T = Tighten

Warranty Information:

FD Motors give this warranty with respect to 2W manufactured by the company

The company has taken every care to maintain the quality in the manufacture of the FD Motors 2W, subject to other terms and conditions of warranty

FD Motors offers 50000 Kilometers or 5 years warranty whichever occurs earlier on its 2W from the date of sale, in the hands of original retail purchaser, date of sale is the date mentioned in VAT Bill.

The company's obligation under this warranty is limited to repairing or replacing, free of cost, those parts of the vehicle which upon examination by the company may prove to the satisfaction of the company to have a manufacturing defect. However, parts damaged proximately, directly and solely due to the said malfunctioning also to be considered for free of charge both labour and parts, provided it is acknowledged by FD Motors that the same is

not because of misuse/improper handling. All parts replaced under this warranty will become the property of the company and must be returned to the company.

The company advertisement is just for the information and have limitation thereon and do not solely rely on the advertisement put forward. The full information is covered under operational manual.

Limitations of Warranty:

1. This warranty shall not apply under the following conditions:

- If the vehicle is not being serviced as per the service schedule described in the manual or if the vehicle is not being serviced at the recommended intervals at Authorized dealers or Service center.
- If the ownership of the vehicle has been changed
- If any parts/assembly of the 2W is tampered, altered/replaced or repaired at the workshops other than authorized by FD Motors.
- If any failure occurred due to extraneous reasons like overloading or abuse of the vehicle.
- If the vehicle is used for any competition or race and or for attempting to set up any record.
- Any natural wear and tear, including without limitation, aging.
- Proprietary parts such as Tyre, tube and Battery etc...
- Damage resulting from modification, fitting of accessories other than those recommended by the company.
- Insignificant factors such as noise, vibration, fluid seepage which do not affect the performance of the vehicle.
- Vehicle not used according to the instructions given in this manual.
- Maintenance arising due to misuse or adulteration or use of non-genuine spares.
- Damage caused by any accident.

2. List of items which are not covered under warranty:

All rubber items, plastic components, bulbs, fuses, electrical items, flashers, control switches, all seats and backrests, soft top assembly, all standard hardware items, gaskets, fasteners, shims, washers, oil seals, all types of cables, brake shoes, consumable items (all types of oil), components with normal wear and tear.

3. Parts repaired or replaced under this warranty are warranted only throughout the remainder of the original warranty period.
 4. The company is not liable for any delay in servicing due to reasons beyond the control of the company or any of its authorized dealers/authorized service centers.
 5. In any event, the company is not liable for indirect, remote, incidental or consequential damages.
 6. The company may make any modifications or improvements to vehicles in future production at any time without prior notice and without any obligation to install the same on the vehicles previously dispatched for sale.
 7. This is the only warranty given by the FD Motors for the 2W, No employee, Dealer or other person is authorized to extend or enlarge this warranty
 8. Damage resulting from modification, fitting of accessories other than those recommended by the company.
 9. Accident of any kind and non-proper use of vehicle.
- *The Company reserves the right for the final decision in all warranty matters, unless buyers has justified the proper use of the vehicle. If the vehicle has not used properly, company can reject the warranty claim fully.*

Accidental case is related to Insurance claim of the buyers, so it is not responsibility of the company to provide warranty in such case.

Warranty Parts and Value Determination

The Company may provide the Buyer with the latest available version of a part as a warranty replacement, where such version is available at the time of replacement. The Buyer shall accept the latest available version provided that it is not inferior in value to the original part installed in the vehicle.

For the purpose of this provision, “higher-value” or “lower-value” part shall be determined based on the prevailing international market price of the relevant part, as reasonably established by the Company at the time of replacement or sale. The international market price shall be the basis for determining whether one part has a higher or lower value than another part.

The Company reserves the right to provide a higher-value part as a warranty replacement or to include a higher-value item as part of the vehicle sale. The Company shall not provide a lower-value part while charging or accounting for it at the agreed value of a higher-value part. However, the Company may provide a higher-value part while charging or accounting for it at the agreed amount applicable to a lower-value part, without any additional charge to the Buyer, subject to the applicable warranty or sales terms.

The Company may provide and install higher-priced parts in the vehicle, provided that the value of the parts does not fall below the previously applicable MRP value of the original parts for which the Buyer has paid. The use of such higher-priced parts shall not reduce or affect the warranty coverage or durability commitments previously provided by the Company. The Company shall continue to provide the same warranty and durability as originally promised to the Buyer, regardless of any replacement or inclusion of higher-priced parts.

Company can provide the same class of parts or upper class of parts as warranty or replacement of parts necessary for customer satisfaction.

Battery warranty is applicable for **up to 5 years**, provided the battery's **State of Health (SOH) remains above 70%** during the warranty period from the date of purchase.

Warranty Claims and Notification Procedure

In the event of any warranty claim, defect, or issue relating to the vehicle, the Buyer must notify the authorized dealer in writing as soon as reasonably possible. The Company shall not be responsible for any warranty claim or vehicle-related issue that has not been formally notified to the authorized dealer in writing.

? Frequently Asked Questions

Q: What's the range on a full charge?

A: Up to 120 km under optimal conditions as provided above.

Q: Is it comfortable to ride?

A: Extremely. It's smoother and quieter than gas scooters.

Q: Do I need to warm it up?

A: No. Just turn the key and go.

Q: Is maintenance easy?

A: Yes. No engine, no belts, no chains—minimal upkeep.

Q: Can I get spare parts?

A: Yes. All parts are available from the supplier.

Q: Can I wash it?

A: Yes, but avoid soaking the charger port and battery.

Q: Do I need a helmet?

A: Recommended. Check local laws.

Q: How long do batteries last?

A: 2000–2500 deep cycles with proper care and charged as per the manual prescribed here.

Troubleshooting

Problem	Check	Solution
No power	DC-DC converter, fuse, battery connectors	Replace or reconnect
Throttle stuck	Grip damage	Adjust or replace throttle
No acceleration	Throttle-MCU connection	Reconnect cables
Battery not charging	Plug position	Replug or replace charger

OWNER'S RESPONSIBILITY

1. Please take proper care, proper use and maintenance of the vehicle in accordance with the instructions provided in the Owner's Manual. If the vehicle is subjected to severe usage conditions, such as operating in extremely dusty, rough or heavy city traffic during hot weather or during the monsoons, usage of vehicles with under-inflated wheels, maintenance of the vehicle may have to be done more often.
2. Maintenance service records will be maintained by the Company and can be made available to the Customer on request.
3. In order to maintain the validity of this Warranty on the vehicle, the vehicle must be serviced by the Company Authorized workshop in accordance to the Owner's Manual.
4. In order to claim the warranty for any issue, the buyer's is requested to submit the problem in writing to the dealers.
5. Warranty will not be provided if it found that, the buyers has negligence in use of the scooter

Schedule of Service: PRINT OUT THIS AS YOUR SERVICE CARD

			Status Yes/No
Service	Km	Recommended Checks / Works	
1st	500 km	Brakes, tyres, steering, suspension, electricals, fasteners, gear oil change	
2nd	5,000 km	Brakes, tyres, steering, suspension, electricals, fasteners, gear oil change	
3rd	10,000 km	Brakes, tyres, steering, suspension, electricals, fasteners, gear oil change	
4th	15,000 km	Brakes, tyres, steering, suspension, electricals, motor/controller check, fasteners, gear oil change	
5th	20,000 km	Brakes, tyres, steering, suspension, electricals, motor oil seal check, fasteners, gear oil change	
6th	25,000 km	Brakes, tyres, steering, suspension, electricals, motor oil seal check, fasteners, gear oil change	
7th	30,000 km	Brakes, tyres, steering, suspension, electricals, motor oil seal check, fasteners, gear oil change	
8th	35,000 km	Brakes, tyres, steering, suspension, electricals, motor oil seal check, fasteners, gear oil change	

9th	40,000 km	Brakes, tyres, steering, suspension, electricals, motor oil seal check, fasteners, gear oil change	
10th	45,000 km	Brakes, tyres, steering, suspension, electricals, motor oil seal check, fasteners, gear oil change	
11th	50,000 km	Brakes, tyres, steering, suspension, electricals, motor oil seal check, fasteners, gear oil change	

Please follow the service schedule mentioned here.

Unless the customer reports any specific problem or complaint, no additional servicing or replacement is required for the above-mentioned items. These items should only be inspected during the scheduled service and attended to if any abnormality, wear, damage, or fault is found. The only mandatory scheduled replacement is the Gear Oil change at each service interval.

FD MOTORS

DRIVE THE FUTURE

WARRANTY CARD

Thank you for choosing FD Motors.
This warranty card protects your investment and ensures
peace of mind on every ride.

CHOOSE YOUR WARRANTY

3 YEARS 25,000 KM ☐	OR	5 YEARS 50,000 KM ☐
WHICHEVER COMES FIRST		

✓ Trusted Protection	⚙️ Genuine Parts & Service	⚡ Reliable Performance	🎧 Nationwide Support
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CUSTOMER & VEHICLE DETAILS

Customer Name : _____
Address : _____
Contact No. : _____
Email : _____
Model : _____
Variant : _____
Chassis No. (VIN) : _____
Motor No. : _____
Battery No. : _____
Invoice No. : _____
Date of Purchase : _____

DEALER DETAILS

Dealer Name : _____
Dealer Code : _____
Dealer Address : _____
Dealer Contact No. : _____



IMPORTANT

This warranty is valid only if the vehicle has been used and maintained as per the Owner's Manual. Tampering with components or electrical wiring may void your warranty.



RIDE SAFE. RIDE SMART.

