



# USER MANUAL



UV/ASLES/M/DM-F77  
MACH2 V1  
07/06/24



The features and operations of your F77 have been explained in this Owner's manual. Please read it carefully and follow the instructions to enjoy the riding experience. All information, illustration, photograph, directions, specifications, and other contents covered in this owner's manual are based on the latest product information available at the time of its publishing approval, and the accuracy or correctness of the same is not undertaken or guaranteed.

Ultraviolette Automotive Pvt Ltd reserves the right to make changes in its contents at any time without any prior notice and/or incurring any obligation, whatsoever. No one is allowed to reproduce any part of this publication without obtaining prior written permission from Ultraviolette Automotive Pvt Ltd.

Accessories shown may not be the part of standard fitment. It is our endeavour to constantly improve our products. This could lead to a change in product specifications without notice.

### **Ultraviolette Support**

[www.ultraviolette.com/support](http://www.ultraviolette.com/support)



# Content

Introduction	1
<b>1. Getting Started</b>	<b>2</b>
Vehicle Identification	3
Know your F77	4
Technical Data Sheet	8
Tell Tale	9
Before starting your vehicle	11
<b>2. Safety Information</b>	<b>12</b>
<b>3. General Information</b>	<b>14</b>
Powering ON your vehicle	15
Powering OFF your vehicle	15
Handle lock	16
Parking/Side stand	16
First Aid Kit	16
User Tool Kit	16
<b>4. Handlebar Switches and Controls</b>	<b>17</b>
<b>5. Meter Console</b>	<b>20</b>
Homescreen	21
Menu	23
Ride modes	30
Park assist	33
Lockdown	33
<b>6. Smart Tech</b>	<b>34</b>
Violette	35
Crash Alert	35
A.C.W.S	36
Delta Watch	36

<b>7. Battery and Charging</b>	<b>38</b>
Battery	38
Battery life	38
Charging	38
Charging Limits	39
<b>8. Maintenance</b>	<b>40</b>
Periodic Maintenance Schedule	41
Cleaning and washing	43
Brake Fluid	46
Suspension	47
Storage	49
Emergency support	50
Troubleshooting	50
<b>9. Support</b>	<b>52</b>
Customer Support and Contact Information	53
Warranty information	53
<b>10. Mobile App</b>	<b>63</b>
Setting Up	64
Home Screen	66
Controls Section	67
Diagnostics Section	68
Navigation Section	69
Statistics Section	70
Setting Section	71
Assist Section	74
<b>11. Service DIYs</b>	<b>77</b>
Tools and Description	78
Head Light Adjustment	80
Fuse Replacement	83
Brake Pads	85

# Introduction

Congratulations on your new electric beast on two wheels! Before you rev that throttle for the first time, please read this owner's manual completely. This manual is designed to provide an understanding of the vehicle's functions and smooth operation and will guide you when to have an Authorised Ultraviolette service ground staff evaluate your vehicle.

To ensure a safe and fulfilling rider experience, it is critical that you understand the features of your F77 electric vehicle. It is highly inadvisable to ride the vehicle before studying this manual.

Ultraviolette Automotive brings you a premium vehicle riding experience with zero emissions and several features to communicate with your vehicle through your handheld device. The vehicle features 3 ride modes, spanning from efficient city riding to high-adrenaline track performance.

Modifying the vehicle is prohibited and will be considered illegal under all circumstances. This includes after-market changes on the software level.

The rider must pay attention to all warning and cautionary signals indicated on the display. Unintended use of the vehicle does not guarantee safe operation, and any resulting damage or change in performance will invalidate the vehicle warranty.

## Important Information Types

The following words are used within this manual to call your attention to specific types of information.

### NOTE

Information to aid in preventing harm to your vehicle, other property, or the environment.  
**Be Careful!**

### CAUTION

Calls attention to action or information which must be followed to avoid damage to components.  
**You/Vehicle can be hurt/damaged!**

### WARNING

An action or information which must be followed precisely to avoid the possibility of injury.  
**You/Vehicle will be seriously hurt/damaged!**

### IMPORTANT

Important information that needs to be kept in mind while operating the vehicle.

### REMINDER

Useful procedures to ease your overall riding experience.

### CARRY ALONG

Useful tools/articles to ease your ownership experience.



01

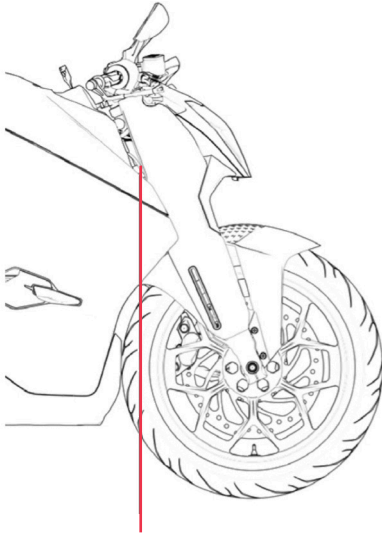
# GETTING STARTED

- + Vehicle Identification
- + Know your F77
- + Tell tale
- + Before starting your vehicle

# Vehicle Identification

## Vehicle Identification Number

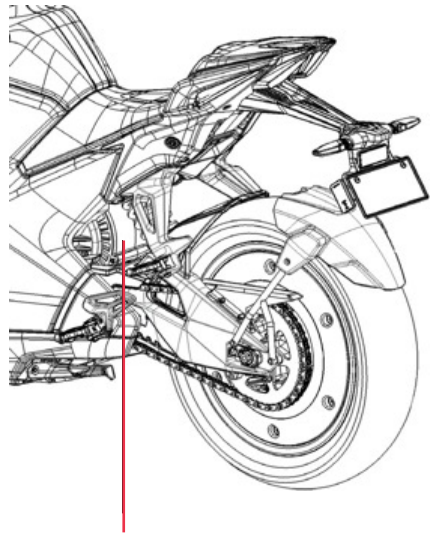
The Vehicle Identification Number is engraved on the steering headtube of the vehicle. It is a 17-character alphanumeric code that will be unique to every vehicle.



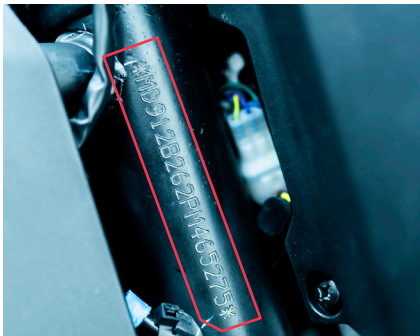
VIN ( On Steering Headtube)

## Motor Serial Number

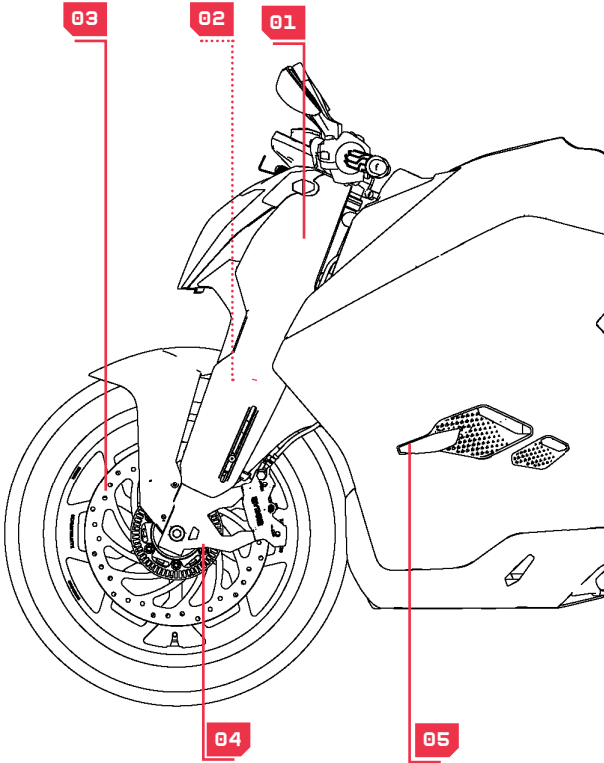
The Motor Serial Number is given on the casing of the motor. It is visible from the rear side of the vehicle near rear suspension.



Motor Number

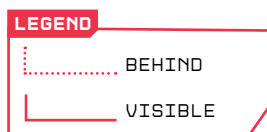
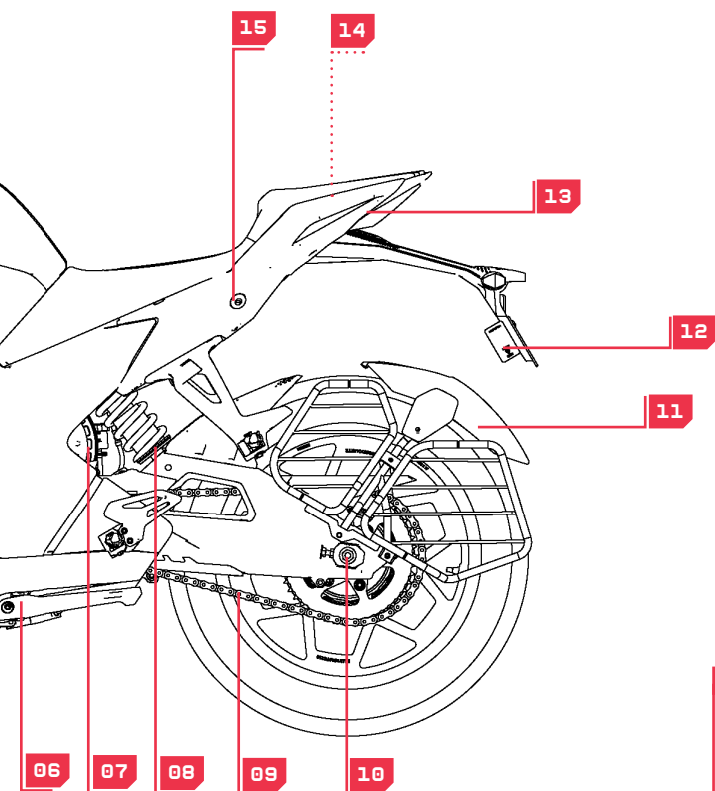


# Know your F77

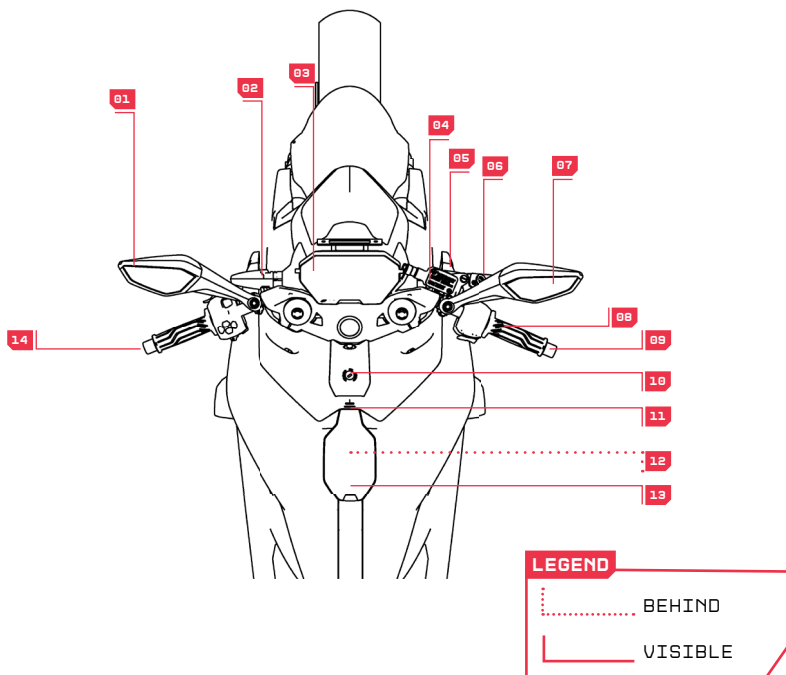


NUMBER	DESCRIPTION
1	Front USD fork cover
2	Front USD fork
3	Front brake disc
4	Front brake calliper assembly
5	Crash guard

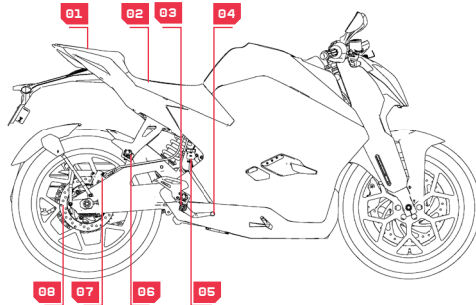




NUMBER	DESCRIPTION
6	Side stand
7	Motor
8	Rear suspension
9	Drive chain
10	Drive chain adjuster
11	Rear hugger fender
12	Rear fender stay
13	Rear grip
14	Fuse box
15	Seat lock



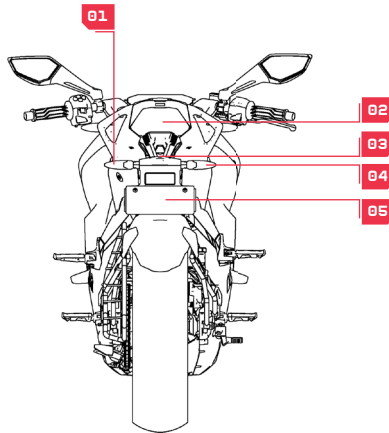
NUMBER	F77
1	Rear view mirror (LH)
2	Front turn signal indicator (LH)
3	Meter console
4	Front brake fluid reservoir
5	Rear turn signal indicator (RH)
6	Front brake lever
7	Rear view mirror (RH)
8	Throttle grip
9	Bar end weight (RH)
10	Steering lock switch
11	Speaker
12	Charging port
13	DC charging port lid
14	Bar end weight (LH)



**NUMBER**

**F77**

1	Pillion seat
2	Rider seat
3	Rider footrest
4	Rear brake pedal
5	Rear brake fluid reservoir
6	Pillion footrest
7	Rear brake calliper assembly
8	Rear brake disc



**NUMBER**

**F77**

1	Rear turn signal indicator (LH)
2	Tail lamp
3	Number plate lamp
4	Rear turn signal indicator (RH)
5	Number plate holder

# Technical Data Sheet

Aux Battery Voltage			Tyres	
Vehicle Condition	Standard Voltage		Front	110/70 R17 Radial
Vehicle OFF	12.6v		Rear	150/60 R17 Radial
Vehicle ON	14.2			
Battery System			Tyre Pressure (Cold)	
Variant	Battery Pack	Energy Capacity	Front	30 PSI
Mach 2	SRB7	7.1 kWh	Rear	32 PSI
Mach 2 Recon	SRB10	10.3 kWh		
Charging 20%-80%, IDC			Brakes Disc	
Charger	Mach 2	Mach 2 Recon	Front	320mm
Standard	3 hrs	5 hrs	Rear	230mm
Boost	1.5 hrs	2.5 hrs		
Supernova	45 mins	60 mins		
Range Estimates			Recommended Fluids	
Mode	Mach 2	Mach 2 Recon	Brake	SAE DOT-4
IDC Range	211	323	Transmission	SAE 20W-40
Glide (40 Wh/km)	183	266	Chain Lube	Motul C1 & C2
Combat (52 Wh/km)	144	209		
Ballistic (60 Wh/km)	128	186		
Performance				
	Mach 2	Mach 2 Recon		
Peak Power	27 kw (36.2 hp)	30 kw (40.2 hp)		
Peak Torque	90 Nm	100 Nm		
Max Speed	155 km/h	155 km/h		
Acceleration (0-60 km/h)	2.9 sec	2.8 sec		
Acceleration (0-100 km/h)	7.8 sec	7.7 sec		
Dimensions				
	Mach 2	Mach 2 Recon		
Wheel Base	1340mm			
Seat Height	800mm			
Ground Clearance	160mm			
Kerb Weight	197kg	207kg		

# Tell Tale



Turn signal indicator



High beam indicator



Battery temperature warning indicator



Regen warning indicator



System Error Indicator



Service reminder indicator



Traction Control indicator













Charging indicator



ABS warning indicator



Motor armed indicator

S.NO.	DESCRIPTION	SYMBOL	COLOR	FUNCTION
1	Turn signal / hazard light indicator.		Green	It flashes when the turn signal switch is operated on either side / hazard switch is pressed.
2	Battery temperature warning indicator		Red	Turns ON when the main battery pack temperature increases. It should go OFF after some time (approx. 1hr) as the battery temperature goes below 50°C. If it does not go OFF even after some time and the vehicle is immobilised, it is recommended to connect with UV support.
3	System Error indicator		Red	It should not turn ON when the vehicle is in ON condition. If the indicator remains ON, it is recommended to connect with UV support.
4	ABS warning indicator		Yellow	It turns on when the ignition key is switched ON & keeps glowing until the vehicle attains a speed of 5 km/h. If there is an abnormality in the ABS system, the indicator stays ON. It is recommended to connect with UV support.
5	High beam indicator		Blue	This indicator light glows when the headlamp is in high beam and flashes when actuating the pass light switch.
6	Regen warning indicator		Yellow	Regen tell tale turns ON when the regen is not available. Regen is not available if the main battery pack SOC is more than 90%.
7	Service reminder indicator		Yellow	Turns ON when the next service is due. It is to be reset after the service is done at UV Authorised service center. The tell tale also turns ON when the vehicle undergoes an OTA update.
8	Charging indicator		Green	It starts to blink once the vehicle is charging. It glows continuously once the charging is complete. If the charger is connected and the vehicle is not charging, the indicator will not blink. It is recommended to connect with UV support.
9	Motor Armed indicator		Green	It glows continuously once the motor is armed. If there is an abnormality with the motor system, the indicator will not turn ON. It is recommended to connect with UV support.
10	Traction Control		Yellow	It stays ON to indicate that traction control is OFF. It blinks while it is getting activated. It should turn OFF after vehicle reaches 5 km/h and SoC is below 90%.

Your F77 meter console is equipped with an Ambient Light Sensor (ALS). In daytime/bright light, the meter console goes to daytime mode and the headlight will switch to daytime running lamp.

# Before Starting your Vehicle

Please ensure your vehicle is in a safe and sound technical condition before every ride. To ensure safe and comfortable rideability, follow the below steps.

## **Battery Charge status:**

It is recommended to maintain the SOC at 30% (minimum) to enjoy all three riding modes.

## **MIL (Malfunction Indicator Light):**

MIL should go OFF once the vehicle is turned ON.

## **ABS indicator:**

Check ABS indicator for proper functioning of ABS. It should go OFF once the vehicle speed exceeds 5 km/h.

## **Meter console:**

Check the meter console for any errors displayed.

## **Rear view mirrors:**

Ensure that the rear-view mirrors give a good rear view when you are sitting on the vehicle.

## **Throttle:**

Check for smooth opening and closing.

## **Kill switch:**

Check for proper functionality.

## **Lamps & Horn:**

Check that headlamp, position lamps, tail/stop lamp, turn signal lamps, indicators, and horn function properly.

## **Tires:**

Check tread depth, damages, and tire pressure.

## **Drive chain:**

Check condition and slackness. Lubricate if necessary.

## **Front & rear brakes fluid:**

Check for correct brake fluid level in reservoirs.

## **Brakes operation:**

Squeeze the brake lever and press the brake pedal while pushing the vehicle forward to check against rolling.

## **Steering:**

Check for smooth action and for easy manoeuvrability.

## **Side stand:**

Check for proper functionality.

## **Fitting & Fasteners:**

Check for looseness and tighten if necessary.

## **Leakage/Seepage:**

Check for any fluid/oil leakage/seepage from front & rear brake fluid reservoirs, front & rear suspensions, and transmission case.



02

# SAFETY INFORMATION

- + Safety Information
- + Long Trip Precautions



## Safety Information

Your F77 vehicle is designed for the transport of one rider and one passenger with certain lightweight items that can be secured safely to the seat. For additional cargo, Ultraviolette recommended pannier bags may be used. The F77 is a high-performance electric vehicle and must be operated with caution. Always adhere to local traffic laws and regulations for a safe riding experience and utilize appropriate protective gear and clothing. Prior to operating the vehicle, familiarize yourself with all safety warnings in this manual and on the vehicle itself.

**IMPORTANT** Riding under the influence of alcohol or other substances that impair behavior is strictly prohibited. Always follow road signs and signals. Be aware of the high voltage warning symbol on your vehicle, indicating areas of potential high voltage exposure. Contact with high voltage can result in electric shocks, burns, or even serious injury or fatality. Do not tamper with any high voltage components, identifiable by orange-colored insulation or sheathing.

## Long Trip Precautions

### CHECKS PRIOR TO COMMENCEMENT

Before embarking on a long journey, service your motorcycle at an Ultraviolette Authorized Dealer or Service Center. Ensure the availability of Charging Stations or charging ports along your route. Check and correct tyre pressure as necessary.

#### REMINDER

After every 500 km, lubricate the chain with recommended Chain Clean & Chain Lube, check for any loose fasteners, inspect the condition of the tyres, and ensure all lights and horn are functioning properly.

#### CARRY ALONG

Always have your Tool Kit, First-Aid Kit, a spare drive chain master link lock assembly, Puncture Kit and Portable Charger with you.



03

# GENERAL INFORMATION

- + Powering On your vehicle
- + Powering Off your vehicle
- + Handle lock
- + Parking/Side stand
- + First Aid Kit

# Powering ON your F77

To start your vehicle, follow the steps below. Turn the key clockwise to the ON position as shown. The motor can be armed using the “Motor start” switch to operate the vehicle. The console will display a loading animation for approximately 12s during which the bike will initialize all systems and land on the main meter console screen. After the key is switched ON, the motor can be armed after 2 seconds.



To start riding, press and hold the front brake lever or the rear brake pedal along with a long press of the “Motor start” switch. The motor armed tell-tale will glow to confirm that the motor is active. For your safety, F77 is equipped with the side stand motor kill feature which restricts the motor operation if the side stand is engaged. Ensure the side stand is not engaged to make motor activation possible. The motor can also be activated by entering into the “Park assist” through the console controls.

# Powering OFF your F77

Bring your vehicle to a complete halt, press the “Motor stop” switch to power off the vehicle, and turn the ignition key anticlockwise to the OFF position. The key should be removed from the vehicle when not in use for the safety and security of your vehicle.



**NOTE** : It is not recommended to turn the key off while the vehicle is running

# Handle Lock

When your vehicle is left unattended, turn the key anticlockwise to the LOCK position and remove the key from the vehicle.

- Turn the handlebar all the way to the left.
- With the key in the OFF position, push the key down into the lock and rotate anti-clockwise to the LOCK position.
- Remove key



# Parking/Sidestand

After bringing the vehicle to a steady halt, turn the key anticlockwise to the LOCK position and remove the key. With the left foot, push the side stand towards the ground to engage the side stand.

# First Aid Kit

The First Aid Kit is located under the Pillion Rider Seat, next to the fuse box.



# User Tool Kit

The User Tool Kit is located under the Pillion Rider Seat, next to the fuse box.





04

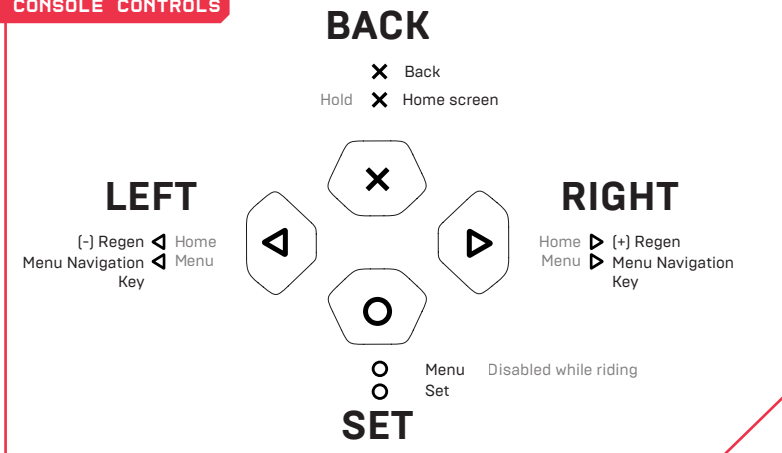
# HANDLEBAR SWITCHES & CONTROLS

# LHS Switchgear



NUMBER	DESCRIPTION
1	High beam / pass light switch
2	Hazard lamp switch
3	Console Controls
4	Turn signal switch
5	Horn switch




## 03 CONSOLE CONTROLS



# RHS Switchgear



NUMBER	DESCRIPTION
1	Motor Stop Switch
2	Neutral
3	Motor Start / Change Mode Switch

<b>ARM MOTOR</b>	 Hold	+ Brakes (any)
<b>CHANGE MODE</b>	 Press	Glide - Combat - Ballistic
<b>PARK ASSIST</b>	 Hold	+ Brakes (any)



05

# METER CONSOLE

- + Homescreen
- + Menu
- + Ride modes
- + Park assist



# Home Screen: Parallax



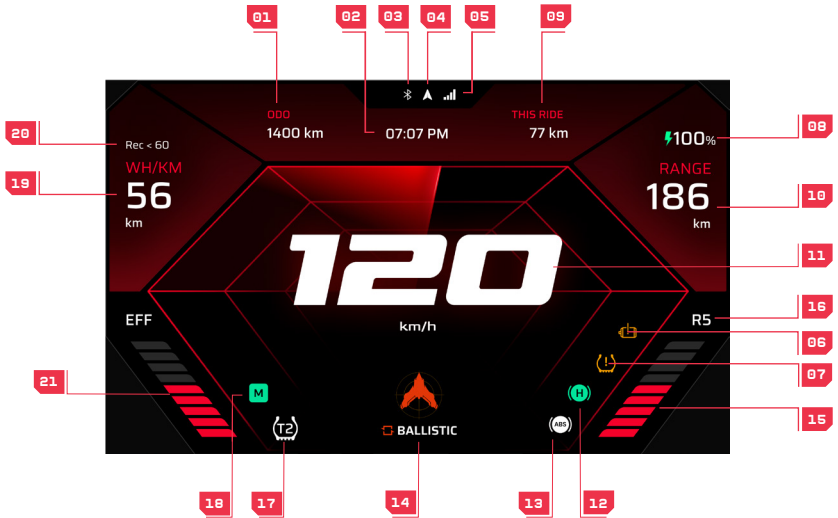
NO .	DESC .	NO .	DESC .
1	Odometer	11	Speedometer
2	Time	12	Hill Hold Indicator
3	Bluetooth	13	ABS Mode Indicator (Mono/Dual)
4	Navigation	14	Current riding mode
5	Connectivity	15	Regen Level Bars
6	Motor Malfunction Indicator	16	Regen Level Value (OFF,R1 to R9)
7	TPMS Indicator	17	Traction Control Indicator (OFF, T1 to T3)
8	Battery state of charge (SOC)	18	Motor Health Indicator
9	Current Tripmeter	19	Watt-Hour / Kilometer (Efficiency)
10	Range in km	20	Recommended Efficiency

## 18 MOTOR HEALTH INDICATOR

- M Motor not armed
- M Motor armed
- M Motor temperature nearing high
- M Motor temperature high

\* Images are for indicative purposes only.

# Home Screen: Radar



NO .	DESC .	NO .	DESC .
1	Odometer	11	Speedometer
2	Time	12	Hill Hold Indicator
3	Bluetooth	13	ABS Mode Indicator (Mono/Dual)
4	Navigation	14	Current riding mode
5	Connectivity	15	Regen Level Bars
6	Motor Malfunction Indicator	16	Regen Level Value (OFF, R1 to R9)
7	TPMS Indicator	17	Traction Control Indicator (OFF, T1 to T3)
8	Battery state of charge (SOC)	18	Motor Health Indicator
9	Current Tripmeter	19	Watt-Hour / Kilometer (Efficiency)
10	Range in km	20	Recommended Efficiency
		21	Motor Efficiency Bars

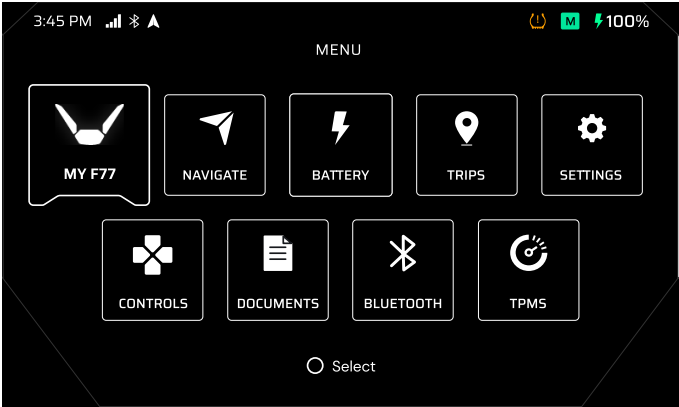
## 18 MOTOR HEALTH INDICATOR

- M Motor not armed
- M Motor armed
- M Motor temperature nearing high
- M Motor temperature high

\* Images are for indicative purposes only.

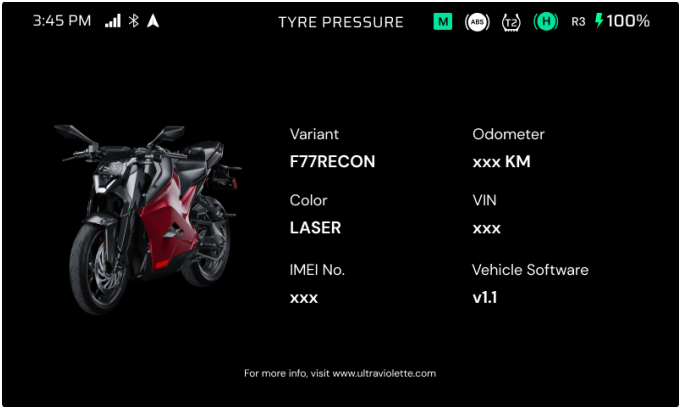
# Menu

You enter the menu by clicking [O] button, where you see a host of features and controls on your F77. Select any of the menu items to go deeper into the sub-menu & options.



## My F77

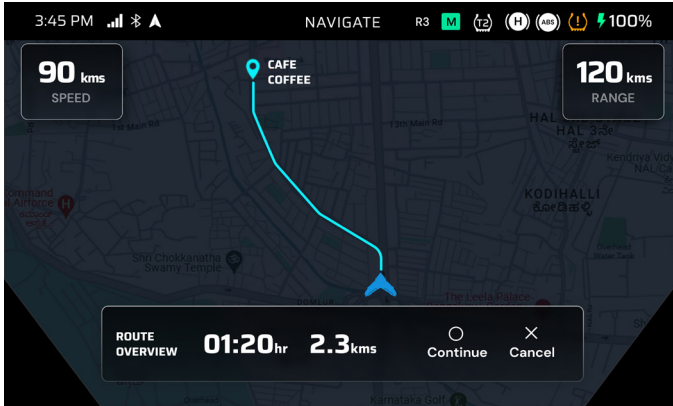
Your go-to source for essential F77 details. It provides convenient access to crucial information such as the unique International Mobile Equipment Identity (IMEI) and vehicle identification. Stay connected to your motorcycle's identity and vital stats. Refer to this section for quick reference and effortless management of your F77



\* Images are for indicative purposes only.

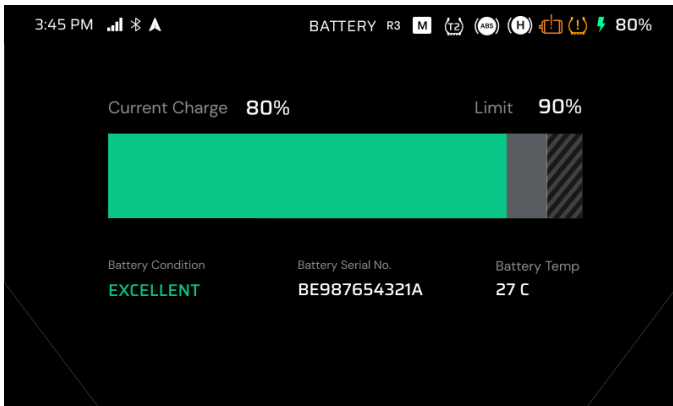
## Navigate

Navigate seamlessly with the advanced navigation system integrated into your F77. Effortlessly chart your course using via the UV mobile app. Enjoy a hassle-free journey with real-time updates, precise route guidance, and interactive features that elevate your riding experience.



## Battery

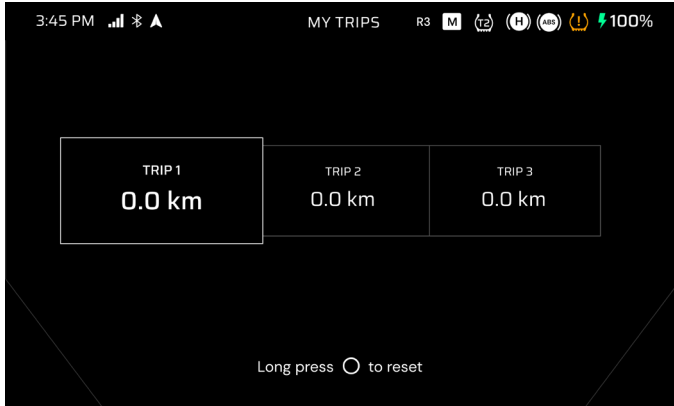
Gain insight into your battery pack's performance with detailed metrics provided here. Monitor vital aspects including battery health, state of charge, charging limits, and temperature. This comprehensive view empowers you to optimize charging routines, prolong battery life, and ensure peak performance throughout your rides.



\* Images are for indicative purposes only.

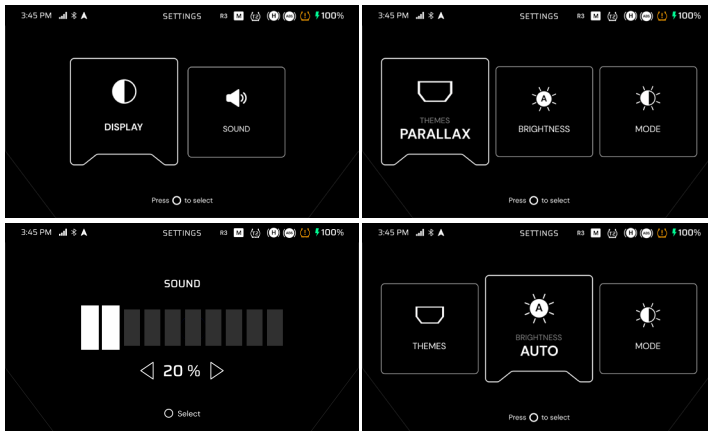
## Trips

Take control of your trips with ease using our intuitive trip management system. Switch between the odometer and trip-specific distances effortlessly. With the ability to reset trip presets at your convenience, you can track your journeys accurately and stay organized on the road.



## Settings

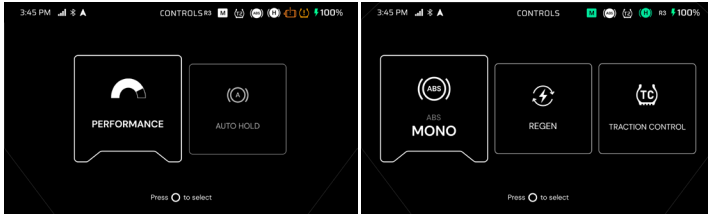
Tailor your meter console experience to your preferences using the Settings menu. Here, you can fine-tune various aspects of the screen to suit your style and needs. Adjust between dark and light display modes for optimal visibility in any lighting condition. Choose between Parallax or Radar UI themes for a personalized interface. Control brightness and sound levels to your liking.



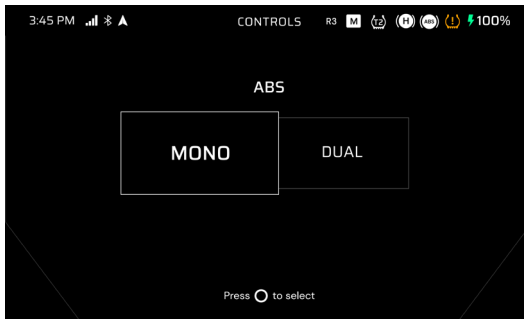
\* Images are for indicative purposes only.

## Controls

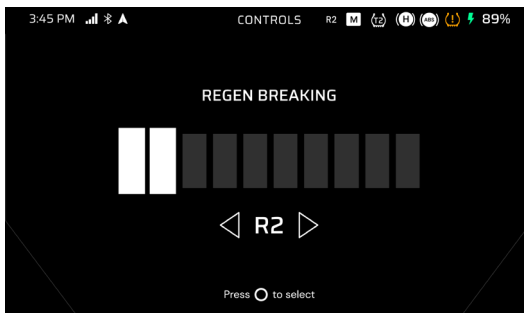
Take charge of your F77's specific preferences with the Controls menu. Here, you can customize vehicle settings to align with your preferences and riding style, enhancing your overall experience.



**ABS** Ensure optimal braking performance with our advanced Anti-lock Braking System (ABS). This feature prevents wheel lock-up during emergency braking situations, enhancing safety and stability. Seamlessly switch between mono and dual-channel ABS modes to suit different riding conditions and preferences.

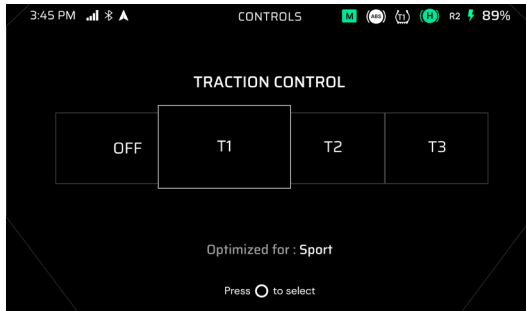


**Regenerative braking** Harness the power of Regenerative braking to enhance efficiency and extend your riding range. Regen converts a portion of the energy dissipated during braking into electrical energy, replenishing the battery pack. By reclaiming energy that would otherwise be lost, regenerative braking helps optimize energy usage.



\* Images are for indicative purposes only. \*\* Regen levels R3-R9 are available only as part of the add-on Performance Pack

**Traction Control** Enhance performance and safety on challenging surfaces with Traction Control, which prevents rear wheel spinning in certain riding conditions. While it maximizes traction, note that reduced power due to traction control is not a replacement for safe riding practices. Adjust intervention levels accordingly for optimal control – T1 is the least amount of TC intervention meant for Sport, T2 for Street and T3 for Rain.



**Hill Hold** Keep your F77 stationary on inclines (uphill and downhill) without brake application using Hill Hold, toggleable ON/OFF here.

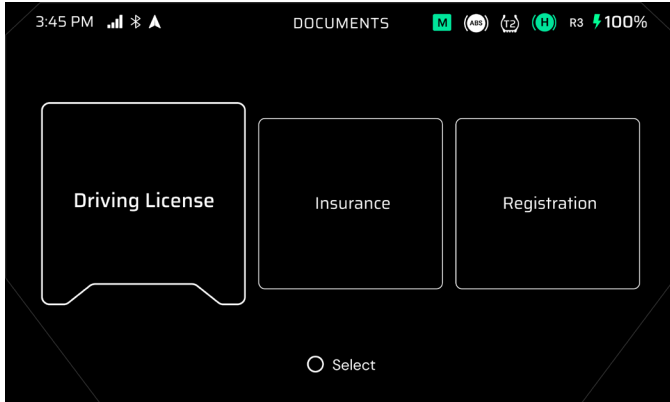
**NOTE** : Hill hold disengages when engaging side stand, applying throttle, or tapping brake.

**CAUTION** : Hill hold disengages automatically post 5 minutes or 300 seconds of engagement.

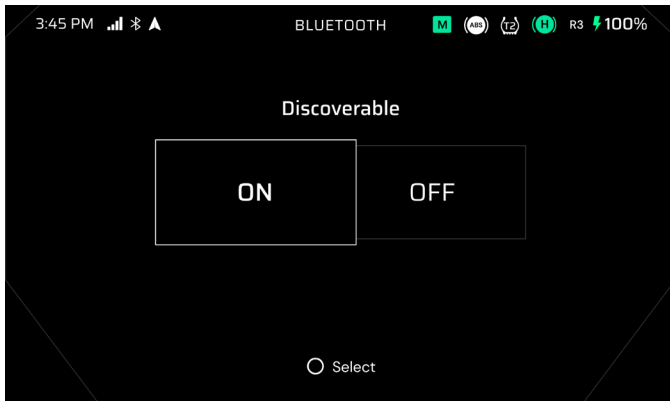


\* Images are for indicative purposes only.

**Documents** You can upload important vehicle related documents like your driving licence, registration certificate, & insurance papers through the Ultraviolette App and sync it on your F77 for quick access or in case of an emergency.



**Bluetooth** The F77 allows you to toggle Bluetooth ON and OFF for app connectivity.

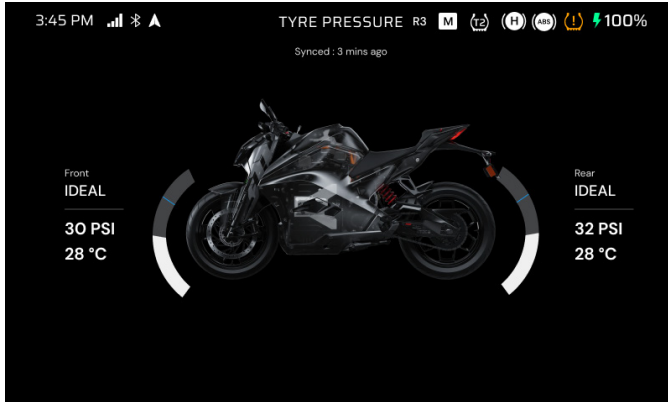


**NOTE** Ultraviolette is not responsible for any connectivity issues or data loss due to Bluetooth connection failures. Ensure your devices are compatible and secure to prevent unauthorized access.

\* Images are for indicative purposes only.



**Tyre Pressure Monitoring System** The TPMS screen syncs with optional TPMS sensors on wheels to monitor tyre pressure and temperature, alerting you to low or non-ideal tyre pressure conditions. Note: TPMS is an optional accessory sold separately by Ultraviolette. It operates continuously but not in real-time, with displayed pressure numbers subject to slight variations depending on ambient conditions.



#### NOTE

- The Tyre Pressure Monitoring System is an accessory sold separately by Ultraviolette.
- Prioritize checking and filling tyre air before rides, as riding increases tyre temperature, affecting readings. Installation of TPMS, which replaces existing valves, must be conducted solely at UV service centers by authorized technicians.

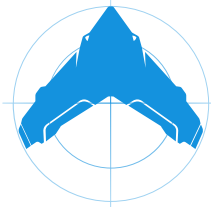
\* Images are for indicative purposes only.

# Ride Modes

The F77 offers three distinct ride modes, each tailored for different riding behaviors and optimized for specific performance attributes including top speed, acceleration time, range, and torque.



**GLIDE**



**COMBAT**



**BALLISTIC**

## Glide mode

Optimized for maximum range, available across the State of Charge (SOC) band and battery temperature spectrum.



\* Images are for indicative purposes only.

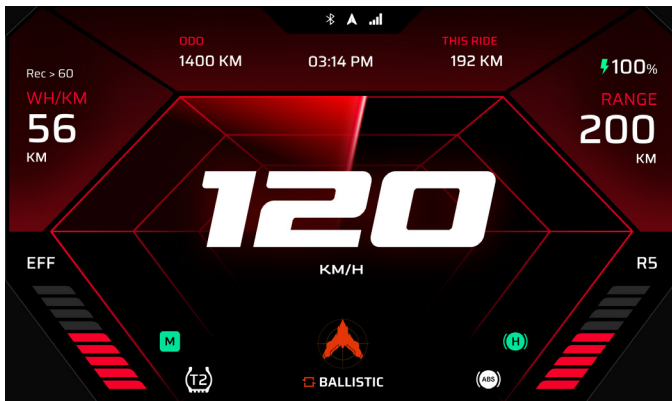
## Combat mode

Balances performance and range, tuned for city rides, and available down to 20% SOC.



## Ballistic mode

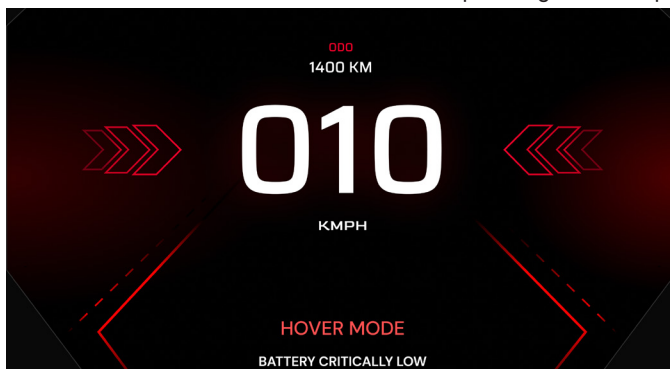
Delivers exhilarating acceleration in short bursts, disabled if battery temperature exceeds 50°C, and operational within a defined limit down to 30% SOC. This mode ensures component protection against overheating or strain while maximizing power delivery.



\* Images are for indicative purposes only.

## Hover mode

The F77 features a Hover mode for emergency conditions, activated at very low State of Charge (SOC) levels to assist riders in reaching the nearest charging point by limiting vehicle speed to 25 km/h. Range prediction is unavailable in this mode and varies between 5 km to 10 km depending on multiple factors.



### CAUTION

Hover mode is not intended for regular use and should only be relied upon in emergencies. Ultraviolette disclaims liability for any inconvenience or damage incurred if the vehicle runs out of charge while in Hover mode.

**The range of the F77 depends on below factors:**

## Ride Modes

The different drive modes have been made with different torque maps, when used along with the other performance influencing feature such as regen and how you ride will in turn affect the range of your F77.

Some recommended use cases are below:

Scenario	Mode	Regen	ABS	TC
Daily Commute/ Urban	Glide	R6-R9	Dual	3
Highway/ Intercity	Combat	R3-R6	Dual	2
Track	Ballistic	R1-R3	Dual/Mono	1
Pro	Ballistic	Off-R9	Mono	Off

## Throttling

Use the throttle gently and avoid throttle blipping, as it can lead to higher energy consumption and ultimately reduce the range.

## Wh/Km

Increase the range by lowering the Wh/Km. Riding aggressively will increase Wh/Km.

\* Images are for indicative purposes only.

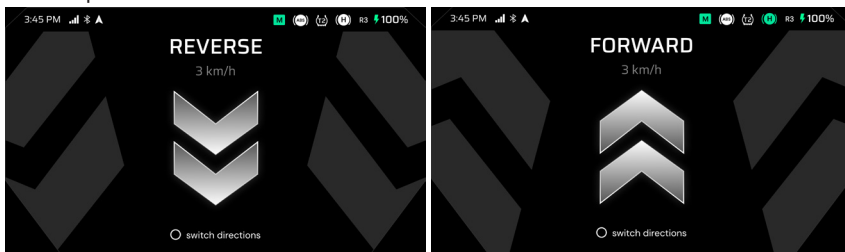
# Park Assist

The F77 comes equipped with Park Assist to aid in maneuvering through tight spaces with controlled forward and reverse modes.

**PARK ASSIST**  + Brakes (any)  
Hold

## NOTE :

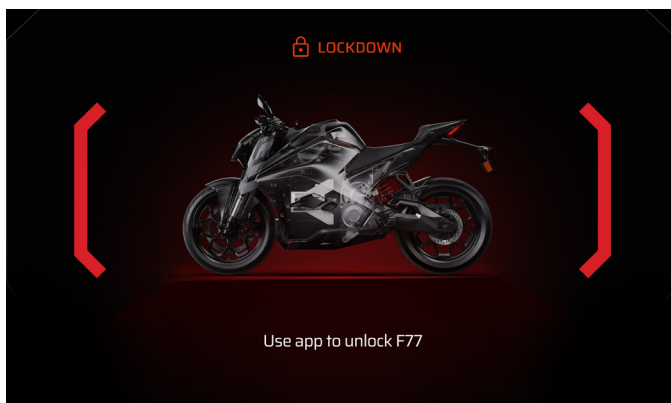
- To change the parking mode between forward and reverse, the throttle and vehicle speed must be zero.
- The maximum speed in Park Assist mode is locked to 5kmph in forward and 3kmph in reverse.



# Lockdown

The Lockdown feature immobilizes the bike once it comes to a halt.

To activate, in the UV App, navigate to Assist > Lockdown > Lock My F77 > OTP to validate Lockdown request.



## NOTICE

These features are designed to assist but do not replace the need for manual control and vigilance. Ultraviolette is not liable for any damage or accidents resulting from improper use of these features.

\* Images are for indicative purposes only.



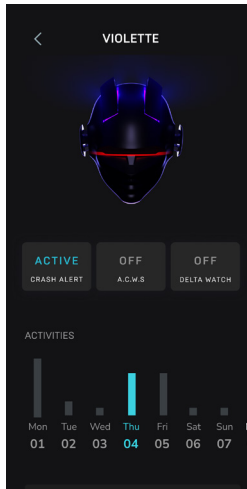
06

# UV SMART TECH

- + Violette
- + Crash Alert
- + A.C.W.S
- + Delta Watch

# Violette Advanced Rider Assistance

Violette comprises advanced rider assistance features aimed at enhancing safety and reducing the stress of riding. While these features offer significant support, they do not render the F77 fully autonomous and do not replace your role as the driver.



## DISCLAIMER

Ultraviolette is not responsible for any incidents that may occur due to over-reliance on Violette features. Always maintain vigilant riding practices.

## Crash Alert

Crash Alert, a feature within Violette, monitors for collisions and notifies your connected UV app if one is detected. It displays your emergency contact for manual calling, serving as an aid for riders or bystanders in the event of a crash. Note: It raises an alert but does not automatically call anyone.

## NOTE

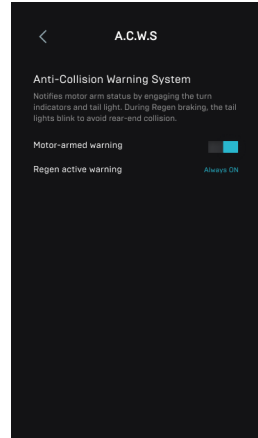
It is only raises an alert and does not call anyone automatically. It is intended to be a rider or by-stander aid in the event of a crash.

\* Violette features are only available as part of the add-on Violette Pack.

\*\* Images are for indicative purposes only.

# A.C.W.S

A.C.W.S., part of Violette, alerts bystanders and motorists to the presence of your vehicle through beacon lights. The tail light rapidly flashes during regen braking, indicator lamps mimic airplane frequencies when armed but stationary, and the tail lamps flash every 30 seconds when parked. You can toggle these alerts ON/OFF in the A.C.W.S. section under the Violette section of the Ultraviolette App.



# Delta Watch

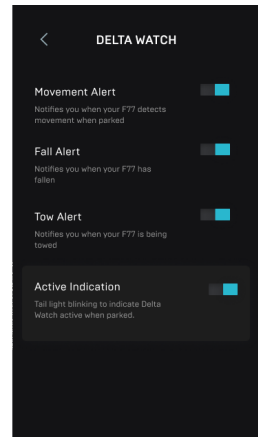
F77's Violette is equipped with Delta Watch which keeps watch and notifies your UV App connected mobile phone, flashes the tail lamps and indicator lamps in the event of an unauthorized attempt at tampering with the F77.

**Movement Alert:** If a minor movement is detected when the F77 is parked.

**Fall Alert:** If a major movement is detected within 100m when the F77 is parked or falls down in stationary state

**Tow Alert:** It will notify you if your F77 is being towed away unauthorized/without the key.

**Active Indication:** It will blink the taillights to indicate that delta watch is activated.



\* Images are for indicative purposes only.

\*\* Violette A.I smart tech features are available only as part of the add-on **Violette pack**.

\*\*\* Violette AI and its features are operational only provided the F77, the connected mobile phone and the app are in working/ network accessible conditions. The DELTA WATCH notifications are visible only in the UV app.





# BATTERY & CHARGING

- + Battery
- + Battery life
- + Charging
- + Charging Limits

# Battery

The F77 comes equipped with a rechargeable battery pack, operational upon receiving your vehicle. Operating within a temperature range of 0°C to 55°C, the Battery Management System initiates a system shutdown outside this range.

## Battery Life

The F77 battery pack is engineered for the entire life of the vehicle. However, there are best practices recommended to minimise the ageing effects of the battery. Some of the effects are as follows:

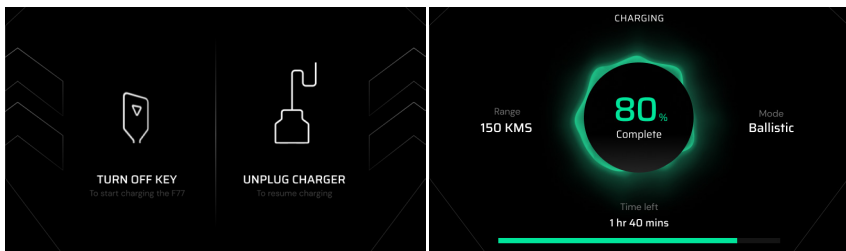
- Avoid prolonged storage of the vehicle at a high level of charge to avoid battery cell degradation (Check storage guidelines).
- When the battery is fully charged, please ensure to unplug the AC Connector from the vehicle.

## Charging

The F77 is equipped with an IEC 62196-6 charging connector for DC fast charging, compatible with external DC chargers. Ensure to charge the vehicle battery pack in a well-ventilated environment, at least 20 meters away from combustible substances.

### Procedure:

1. Turn the key to the OFF position, remove it, and open the charger lid to access the charging port.
2. Secure the charging gun into the charging port with a click sound.
3. Power ON the charger. The UV logo near the charging port glows, indicating a good connection with the vehicle and power supply. If not glowing, contact UV support.
4. The charging indicator on the meter console blinks, confirming the battery pack has started receiving charge. If not blinking, contact UV support.



- If charging, pressing any control switch on the handlebar wakes up the meter console, displaying the charging screen.
- Upon completion, the system shuts down. Remove the charging gun/cable from the vehicle and close the charging lid.
- Below are measured charging times for 20-80% SoC.

Charger	Mach 2	RECON
Standard	3 hrs	5 hrs
Boost	1.5 hrs	2.5 hrs
Supernova	45 mins	60 mins

\* Times are measured at IDC. Expect slight variation in charging times.

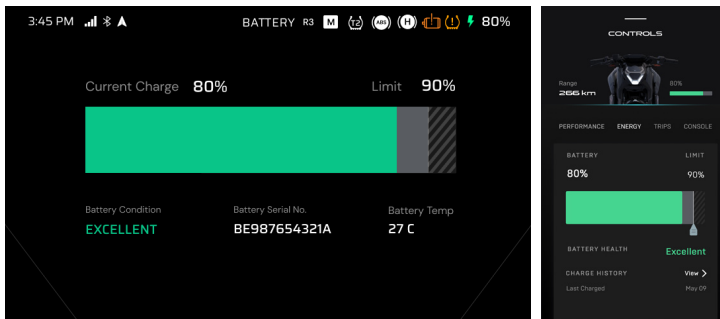
#### NOTE

- Charging time varies based on battery temperature and charger type.
- Charging does not occur if the temperature exceeds 50°C.
- The charger derates in case of a spike in PRCD temperature.

**CAUTION** Avoid charging in rainy conditions or when the charging port is wet.

## Charging Limits

Adjust the charging limit [80%, 90%, 100%] via Controls > Energy section in the connected UV Mobile App.



#### NOTE

Ultraviolette recommends a 90% limit to retain regenerative braking functionality.



# MAINTENANCE

- + Periodic Maintenance Schedule
- + Cleaning and washing
- + Chain adjustment
- + Chain Slack Adjustment
- + Brake Fluid
- + Suspension
- + Preload Adjustment
- + Storage
- + Troubleshooting
- + Emergency support

## Periodic Service Schedule - F 77

The maintenance schedule detailed here will help you maintain your F 77 Motorcycle meticulously and to get a long and trouble free service life. The schedule provided here is based on average riding conditions and indicates the kilometers and months at which regular Cleanings, Inspections, Lubrications, Tightening, Replacements, Adjustments and Updates are to be carried out. The frequency of the maintenance must be shortened depending on the severity of driving condition or if the motorcycle is used in a very dusty environment. Contact the nearest Ultraviolette dealer for expert advise and to carry out the required maintenance.

Under Free service, **Labour Charges** will be **FREE. Parts, incidentals & others are CHARGEABLE.**

Validity of services are as per periodic maintenance schedule given Days/KM whichever is earlier.

Battery health checkup is part of periodic maintenance.

Service Duration		C - Clean		I - Inspect		L - Lubricate		T - Tighten		R - Replace		A - Adjust		U - Update		R* - Replace if required	
		1st Year		2nd Year		3rd Year		4th Year		5th Year		6th Year		7th Year		8th Year	
Sl. No.		1K	5K	10K	15K	20K	25K	30K	35K	40K	45K	50K					
	Operations	1st FS	2nd FS	1st PS	2nd PS	3rd PS	4th PS	5th PS	6th PS	7th PS	8th PS	9th PS					
1	<b>UV Standard Scope of Service</b>	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
2	Brake fluid (F & R)*1 year or 20000 Km 1st replacement. Then in 20,000 Interval					R								R			
3	Drive chain master link replacement					R								R			
4	Front sprocket wear and tear inspection			I,R*		I,R*		I,R*		I,R*				I,R*			I,R*
5	Front fork oil replacement					R								R			
6	Transmission oil replacement	R		R		R		R		R				R			R
7	Main and auxiliary battery terminal wires check for damage	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
8	Sprocket cushioning rubber dampers replacement					R*								R*			
9	Steering bearing lubrication				L											L	
10	Swing arm needle bearing Inspection and lubrication			I,L		I,L		I,L		I,L				I,L			I,L

Sl.No	UV Standard Scope of Service
1	Aux battery voltage, charging and leakage checking, Terminal grease application
2	Traction battery health check
3	Charger/Charging operation/DCP Operation
4	Brake disc thickness measurement and pad check ( replace if required)
5	Brake fluid level check
6	Brake hose damage check
7	Drive chain cleaning & Lubrication
8	Drive chain slack adjustment
9	Drive chain guide rubber damage check (Replace if required
10	Steering Freeplay Check and Adjustment
11	Front and rear suspension operation check
12	Front and rear suspension oil leakage check
13	Front and rear wheel free rotation, noise and play
14	Auxilliaries Check( Switches, Lights indicators, horn)( adjust headlight if required
15	Lock operation (ignition lock and seat lock actuation, lubrication)
16	Lubrication/greasing points ( brake lever, footpegs, brakepedal, sidestand)
17	Software updation check & Service reminder resetting
18	Side stand actuation and sensor check
19	Throttle free operation
20	Vehicle cleaning and polishing and consumables

# Cleaning and Washing

Clean and wash the F77 cautiously, as improper methods can damage electrical components and void the warranty. Always park the vehicle on a level surface, turn it off, and remove the key before cleaning. Keep the charging port lid closed and avoid disconnecting any electrical components.

## CLEANING OF VEHICLE:

- Clean your vehicle regularly to protect the surface finishes and inspect for damage, wear, and fluid leakage.
- Usage of cleaning products that are not specifically designed for vehicle or automobile surfaces must be avoided. Harsh detergent or chemical solvents content could damage the metal, paint, and plastic parts of the vehicle.
- If the vehicle is still warm from a recent ride, some time should be given to the battery and motor to cool down.
- It is recommended to avoid the use of high-pressure water spray.

**WARNING** Use only cleaning products specifically designed for vehicle surfaces. Avoid high-pressure water spray, as it can damage parts of the vehicle.

## WASHING OF VEHICLE:

- Remove loose dirt from the vehicle by using the water. Rub the soiled area of the vehicle gently, rinsing it frequently with fresh water.
- Clean the vehicle with a soft cloth or sponge using water.
- Do not use high pressure cleaning systems as they can cause water intrusion in bearings, seals, electrical components, and electrical devices.
- Use a sponge or soft cloth dampened with a solution of mild detergent and water to clean the plastic parts.

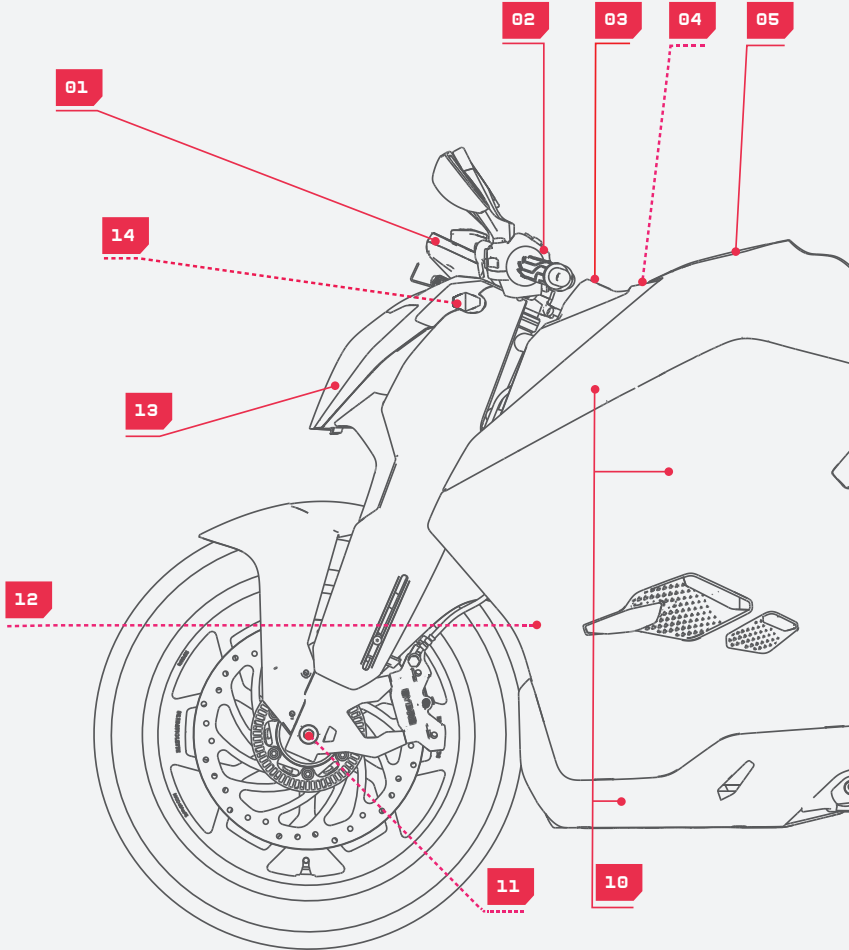
**CAUTION** Ensure to keep brake fluid or chemical solvents off the vehicle. They will damage the plastic and painted surfaces.

### NOTE

- After cleaning, rinse the vehicle thoroughly with clean water. Alloy parts might get corroded due to strong detergent residue.
- Dry the vehicle with pressurised air.
- Immediately after washing the vehicle, braking efficiency may be temporarily weakened.
- Testing of brakes is required before riding the vehicle. Apply brakes several times to restore normal braking performance.
- To avoid a possible accident, expect longer stopping distance.

**CAUTION** Do not remove the seat or any body panels for washing. Use mild automotive grade shampoo for road grime and mud stains on panels. Use a long bristle brush to reach tight areas and recesses.

# CLEANSE



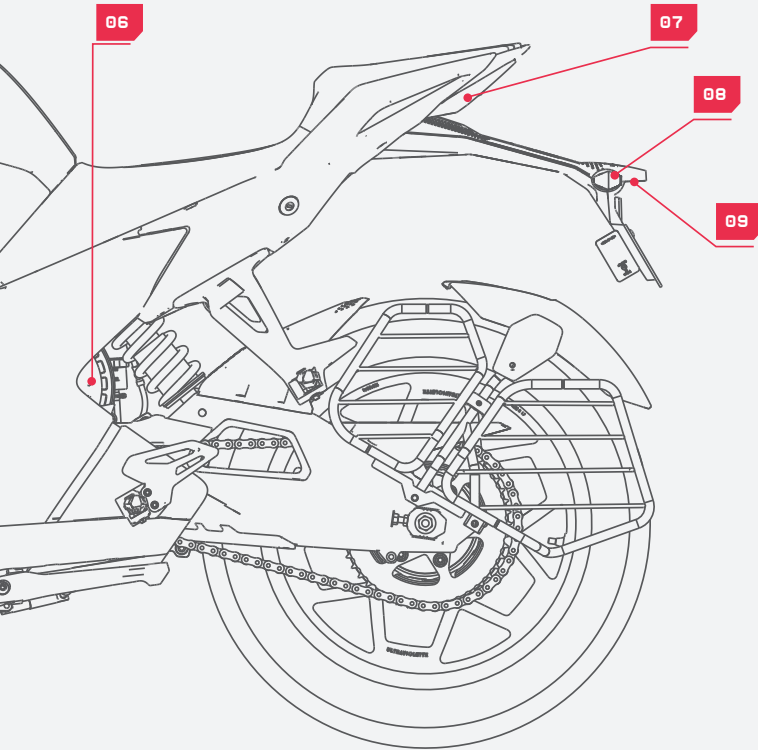
**WASHING OF VEHICLE:**  
Avoid high water pressure directly on the following parts:

1. Meter Console
2. Handlebar Switches [LH & RH]
3. Ignition Switch
4. Speaker
5. Charging Lid
6. Motor
7. Tail Light

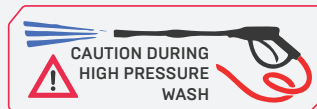




# WITH CARE



- 8. Rear Indicators [ LH & RH ]
- 9. License Plate Light
- 10. Painted Parts [ All ]
- 11. Bearings
- 12. Battery Air Vents
- 13. Headlight
- 14. Front Indicators [ LH & RH ]



DOC. No. : UV/ASL&S/WI/CWC  
REV. No. : 01  
DATE : 04/04/24

# Brake Fluid

## Front Brake Fluid

### Checking & Top-Up

1. Check the front brake reservoir level through the sight glass.
2. Ensure that the brake fluid level does not fall below lower level mark on brake fluid reservoir, when checked with the brake fluid reservoir parallel to the ground.
3. To top up the brake fluid, remove the cover, set plate and diaphragm.
4. Fill the reservoir to the casting edge with brake fluid from a sealed container.



## Rear Brake Fluid

### Checking & Top-Up

1. Check the rear brake reservoir level.
2. Ensure that the brake fluid level does not fall below lower level mark on brake fluid reservoir, when checked with the brake fluid reservoir parallel to the ground.
3. To top up the brake fluid, remove the cover, set plate and diaphragm.
4. Fill the reservoir with brake fluid from a sealed container.



## Brake Fluid

Brake Fluid Grade	DOT 4
Replacement Interval	<b>1st Replacement</b> at 12 Months or 20,000 Kms, whichever is earlier. <b>Consecutive replacement</b> at every 24 Months/ 20,000 Kms whichever is earlier.

# Suspension

## Front Suspension Sag:

Measure the difference in the vertical height from the bottom of the fork tube to the bottom of the dust seal when the vehicle is rider-laden and when the unladen vehicle front wheel is lifted.

Recommended total sag: 35mm

## Rear Suspension Sag:

Measure the difference in the vertical height from the rear axle to the taillamp when the vehicle is rider-laden and when the unladen vehicle rear wheel is lifted on a paddock.

Recommended total sag: 15mm

## Front USD Fork Preload

Front USD forks are adjustable. They can be adjusted as per the load/road conditions accordingly.

### Adjustment

1. Remove the front fork caps.
2. Install the front fork preload adjustment tool onto the front fork.
3. Rotate the adjuster slowly as per the requirement.



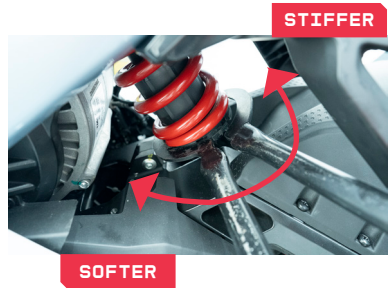
\* Images are for indicative purposes only.

### NOTE :

- Avoid the sudden jerk movement while making adjustment. Doing so might damage the edges of adjuster.
- Ensure only 3 rings are visible after the adjustment.
- After adjustment, check for any damage.

# Rear Shock Absorber Preload

The rear monoshock absorber is adjustable to suit load and road conditions. Adjustments should be made using the rear shock absorber adjustment tools available at the service center.



- **Clockwise: Softer**
- **Anti-clockwise: Stiffer**

## Adjustment:

Adjustment can be made by using rear shock absorber adjustment tools (Hook Spanner).

1. Hold the adjuster and loosen the locknut.
2. Tighten/loosen the adjuster as per the requirement.
3. After the adjustment, hold the adjuster and tighten the locknut.

## WARNING

The rear monoshock absorber contains high-pressure Nitrogen gas. Do not attempt to disassemble or refill this assembly, as it may result in an explosion and serious injury. Replacement and disposal should only be done by an Authorized UV service center.

# Storage

For optimal performance, consistent use of the F77 is recommended. If prolonged storage is unavoidable, follow these guidelines.

1. Store indoors in a cool, dry location away from direct sunlight.
2. Keep software and firmware up to date via the UV app.
3. Clean and lubricate the drive chain before storage.
4. Maintain a minimum 50% State of Charge (SoC) if storing for more than 30 days.
5. Inflate tyres to the correct pressure and move the bike periodically to prevent flat spots.
6. Switch on the bike for a minimum of 30 minutes every 10 days to charge the auxiliary battery. **(Not applicable for Mach 2 vehicles)**
7. Remove the 5A and 15A inline fuses if the bike cannot be turned ON every 10 days. **(Not applicable for Mach 2 vehicles)**

## NOTE

Failure to follow these storage guidelines may affect the vehicle's performance and warranty coverage



# Emergency Support

In the event of an accident, please inspect your vehicle for visual and structural damage to all components and visible wiring connections. If you find any damage visually or while handling/driving the vehicle, avoid riding to prevent further risk to the vehicle and rider, and proceed to contact **Road Side Assistance on 18002661095**.

# Troubleshooting

Refer to the table for basic troubleshooting. If you face any trouble with your vehicle, please contact us at **080-694-53322**. You are strongly advised not to attempt to repair or service your vehicle on your own. You may need to bring your vehicle to a UV Authorised service center.

Sl.No	Description	Probable Causes	Troubleshooting
1	Vehicle not Turning ON	<ol style="list-style-type: none"> <li>Fuse Failure</li> <li>Auxiliary battery discharged</li> </ol>	<ol style="list-style-type: none"> <li>Check the 5 Amps fuse below the pillion seat if blown out replace with the spare fuse given.</li> <li>If the vehicle is stored for long time the aux battery might get discharged. Check the voltage of the aux battery present below the rider seat. (The voltage should be 12.6V when the key is on OFF condition and 14.2V when the key is in ON condition.)</li> <li>If the voltage is below 10V aux battery might need to be replaced.</li> <li>If the voltage registers below 12.6V but remains above 11-10.5 V, you can utilize the vehicle charger by simply plugging it in, allowing it to charge for 1-2 hours, and then attempting to start the vehicle.</li> <li>If the vehicle doesn't start even after charging, please contact customer support for further assistance.</li> </ol>
2	Vehicle not Arming	<ol style="list-style-type: none"> <li>Throttle applied while arming the vehicle</li> <li>Brake switch failure</li> </ol>	<ol style="list-style-type: none"> <li>Release the throttle and try arming the vehicle.</li> <li>Check if the brake light is glowing when brake is applied.</li> <li>Contact customer support for further assistance.</li> </ol>
3	Motor Deration	Motor temperature will be more than 120 Deg.	<ol style="list-style-type: none"> <li>If driven for long time in ballistic mode at vehicle's peak limit it will need some time to cool down .Park the vehicle aside for 15-20 mins.</li> <li>If it still occurs contact customer support for inspection.</li> </ol>
4	High Temperature Warning on display	Battery temp. rising above permissible limit	<ol style="list-style-type: none"> <li>Contact Customer support.</li> </ol>
5	Battery charging failure	<ol style="list-style-type: none"> <li>Charger not plugged in the charging socket correctly.</li> <li>Loose connection in power supply</li> <li>Loose connection in PRCD plug</li> </ol>	<ol style="list-style-type: none"> <li>Check if the Charger Plug is locked on the charging socket.</li> <li>Check the voltage supply of the plug point/Check with different power supply. Refer Charging guidelines for further reference.</li> <li>If the issue persist contact customer support for check-up.</li> </ol>
6	Chain Noise	<ol style="list-style-type: none"> <li>Chain Loose</li> <li>Chain dry</li> </ol>	<ol style="list-style-type: none"> <li>Adjust the chain (40-45 mm )</li> <li>Clean the chain and lube every 500kms or 15 days.</li> </ol>
7	Brake Noise	<ol style="list-style-type: none"> <li>Brake pad worn out.</li> <li>Dust between brake pads</li> </ol>	<ol style="list-style-type: none"> <li>Inspect the brake pads visually,(if brake pads worn out get it replaced)</li> <li>Clean the calliper by pressure wash.</li> </ol>
8	Rear View mirror adjustment	Rear view mirror not adjusted properly	<ol style="list-style-type: none"> <li>If the images in your rearview mirror appear distorted or unclear, you may want to adjust the mirror settings for better visibility and clarity.This can be done with the help of the toolkit provided.(Refer:DIY Video)</li> </ol>
9	Visibility of headlight	<ol style="list-style-type: none"> <li>Headlight height low or high.</li> <li>Low/high tyre pressure.</li> </ol>	<ol style="list-style-type: none"> <li>Adjust the tyre pressure for 30-32 PSI for front and rear respectively.</li> <li>Adjust the headlight as per the requirement (Refer DIY Video)</li> </ol>
10	Handlebar pulling toward one side	<ol style="list-style-type: none"> <li>Low tyre pressure.</li> <li>Uneven preload fork setting.</li> </ol>	<ol style="list-style-type: none"> <li>Check and adjust the tyre pressure for 30-32 PSI for front and rear respectively.</li> <li>Set equal preload on both the forks.(Refer:DIY video)</li> </ol>



09

# SUPPORT

- + Customer Supprt and Contact
- + Information
- + Warranty Information



# Customer Support and Contact Information

For assistance with your vehicle or inquiries about Ultraviolette products, please contact us at **support@ultraviolette.com**. Our dedicated team will respond as promptly as possible, but please allow for a reasonable timeframe due to varying volumes of inquiries.

## NOTE

For immediate answers to common questions, visit our FAQ section on our website <https://www.ultraviolette.com/faq>

## Warranty Policy

Ultraviolette Automotive Pvt. Ltd. warrants each new vehicle to be free from defects in material and workmanship under normal use and maintenance, subject to the limitations outlined in this warranty policy. The appearance and longevity of your motorcycle largely depend on the care it receives. Regular maintenance and adherence to the recommended procedures are essential for optimal performance and warranty validity.

### 1. Warrantor:

Ultraviolette Automotive Private Limited and authorized centres.

### 2. Types Of Warranty And Warranty Periods:

The term of the warranty shall commence from the date of sale of the new vehicle to the purchaser.

Warranty on each model shall be applicable as mentioned below:

#### 2.1. Vehicle Standard Warranty-

Subject to separate coverage for certain parts and the exclusions and limitations described in Clause 5 below, all new UV motorcycles are covered for 3 years (36 months) or 30,000 Kilometres ("KMs") warranty, whichever comes earlier. The warranty will commence from the date of sale.

#### 2.2 Battery and Drivetrain Warranty

The battery's gradual loss of energy or power over time is a natural occurrence and is not covered under this warranty, except as specified herein. To maximize battery life and capacity, please refer to the owner's manual and UV companion Mobile App for important maintenance and charging guidelines. Failure to follow these recommendations may void this warranty.

**Software Updates** Your vehicle's software updates wirelessly, enhancing features and improving battery longevity. These updates do not fall under the Battery and Drivetrain Warranty.

### **2.2.1 UVCARE**

Subject to separate coverage for certain parts and the terms and conditions, the exclusions and limitations described in Clause 5 below, the UVCARE covers the repair or replacement necessary to correct defects in the materials or workmanship of battery and drivetrain manufactured or supplied by UV that occur under normal use for a period of 3 years from the date of purchase or 30,000 km whichever comes earlier. We repair or replace the battery if the storage capacity is less than 70% of the published nominal capacity, as measured by UV.

### **2.2.2 UVCARE+**

Subject to separate coverage for certain parts and the terms and conditions, the exclusions and limitations described in Clause 5 below, the UVCARE+ covers the repair or replacement necessary to correct defects in the materials or workmanship of battery and drivetrain manufactured or supplied by UV that occur under normal use for a period of 5 years from the date of purchase or 50,000 km whichever comes earlier.

We repair or replace the battery if the storage capacity is less than 70% of the published nominal capacity, as measured by UV. UVCARE+ is available as a standard warranty on UV F77 Recon and can be purchased for the F77 Original within 60 days of your vehicle purchase subject to UV approval.

### **2.2.3 UVCARE MAX**

Subject to separate coverage for certain parts and the terms and conditions, the exclusions and limitations described in Clause 5 below, the UVCARE MAX covers the repair or replacement necessary to correct defects in the materials or workmanship of battery and drivetrain manufactured or supplied by UV that occur under normal use for a period of 8 years from the date of purchase or 1,00,000 km whichever comes earlier.

We repair or replace the battery if the storage capacity is less than 70% of the published nominal capacity, as measured by UV.

UVCARE MAX is available as a standard warranty option on UV F77 Limited Edition and can be purchased for the F77 Recon within 60 days of your vehicle purchase subject to UV approval.

## **3. Warranty Terms and Conditions:**

UV hereby warrants UV motorcycle purchaser from UV or UV authorized centre to be free from defect in materials and workmanship for the period of time stated and subject to certain limitations stated hereunder.

This warranty applies only if the motorcycle has been properly set-up and serviced for pre-delivery by a UV authorized centre. The warranty applies only if the motorcycle has been operated and maintained in accordance with the owner's manual, UV companion Mobile App or other UV literature delivered with the motorcycle. Owner is responsible for the costs of maintenance to the motorcycle including service at scheduled intervals. Failures caused directly by lack of maintenance or improper maintenance will void the warranty.

Any part found to be defective during this period will be repaired or replaced at the discretion of UV or by a UV authorised centre subject to the conditions contained under this policy. Any part replaced under the warranty will be covered for the remaining period of the warranty. Any parts replaced under warranty must be returned to UV/UV Authorised Centres and will become UV property.

UV may, at its discretion, make any repairs or replacement of defective parts falling outside the warranty, but such work shall not be deemed to be any admission of liability. UV will not bear labour charges in case there is manufacturing default or damage in any part of the vehicle beyond warranty.

If your Battery or Drive Unit requires warranty repair, UV will repair the unit, or replace it with a new, reconditioned or remanufactured part at the sole discretion of UV. The warranty replacement may not restore the vehicle to a "like new" condition, but when replacing a Battery, UV will ensure that the energy capacity of the replacement Battery is at least equal to that of the original Battery before the failure occurred while taking into consideration other factors, including the age and mileage of the vehicle.

For warranty claims specific to Battery capacity, the replacement Battery will be in a condition appropriate to the age and mileage of the vehicle sufficient to achieve or exceed the minimum Battery capacity for the remainder of the warranty period of the original Battery. Note that the vehicle's range estimates are an imperfect measure of Battery capacity because they are affected by additional factors separate from Battery capacity.

The measurement method used to determine Battery capacity, and the decision of whether to repair, replace, or provide reconditioned or remanufactured parts, and the condition of any such replaced, reconditioned or remanufactured parts, are at the sole discretion of UV.

UV motorcycles have one of the most sophisticated battery packs and systems in the world. The most important way to preserve a battery is to LEAVE YOUR VEHICLE PLUGGED IN FOR CHARGING when you are not using the vehicle/motorcycle for a prolonged period. This is important if you are not planning to drive/ride/use the vehicle for several weeks.

When left idle and unplugged, your vehicle periodically uses energy from the battery for system tests and recharging the auxiliary 12V battery when necessary.

There is no advantage to waiting until the battery's level is low before charging. In fact, the battery performs best when it is charged regularly.

If you allow the battery to discharge to 0%, other components may damage or require replacement. In such cases, you are responsible for repair and/or transporting expenses. Discharge/ deep-discharge related expenses are not covered by the warranty or under the Roadside Assistance Policy.

#### **4. Transfer Of Ownership**

The warranty benefits may be transferred to a new owner if the motorcycle is sold privately. This transfer is subject to Ultraviolette's approval. To initiate a warranty transfer, please complete and return the Transfer Form to Ultraviolette. Subsequent owners should contact Ultraviolette to verify any remaining warranty coverage and to ensure no prior actions have voided the warranty.

#### **5. Exclusions Or Limitations**

This warranty does not cover damage or malfunctions caused by normal wear, misuse, accidents, improper maintenance, or other listed exclusions. For a comprehensive list of exclusions, please refer to the warranty section of this manual.

**IMPORTANT** Modifications or use of non-UV parts may void this warranty. The warranty does not cover incidental or consequential damages, including but not limited to loss of time, income, or use of the vehicle.

**5.1** Replacement of parts as a result of normal wear and tear such as chain and sprockets and sprocket rubber dampeners, belt drive, brake discs and brake pads, bulbs, communication, navigation and display systems, suspension oil seals and dust covers, Front fork seals (particularly stone damage to inner fork tubes), swingarm bush/bearings, alloy wheels, tyres, wheel bearings etc.; are not covered by this warranty.

**5.2** Damage or failure resulting from accidents or alterations; UV is not responsible for damages due to fire or incorrect wiring or incorrect charger or not using the vehicle in a standard or as per prescribed manner.

**5.3** Any Motorcycle where the speedometer or odometer has been interfered with, altered, or disconnected or has failed.

**5.4** Maintenance services, including, but not limited to wheel alignment or balancing, appearance care (such as detailing, cleaning and polishing), minor

adjustments including addition of sealant, insulation, replacing and/or re-torquing of nuts and bolts at a place other than a UV Authorised Service Centre.

**5.5** Using wrong or improper adapters which could result in a fire or any other damage.

**5.6** Negligence of proper maintenance as required in the Owner's Manual, other UV Literature or such other documents as prescribed by UV. Warranty will not be claimed if the customer does not follow the scheduled maintenance process.

**5.7** Driving over damaged or hazardous surfaces, including but not limited to curbs, unfinished roads, debris, or other obstacles.

**5.8** Any Motorcycle used for racing of any description or being used in any contest, competition, trials and misuse or damage caused by competitive off-road or autocross activity or for any other purposes for which the vehicle is not designed.

**5.9** Anything caused directly or indirectly by fire (external sources), war, riot, revolution or any similar event, or by vandalism, theft or attempted theft of the Motorcycle.

**5.10** Accident, collisions, or objects striking the vehicle.

**5.11** This Warranty Does Not Cover Death or Bodily Injury: Any liability for death, bodily injury or damage to other property or any loss caused directly or indirectly by the claim or event giving rise to a claim is excluded under this Warranty.

**5.12** Airborne "fallout", Industrial fall out, acid rain, hail and windstorms, flooding or other Acts of God.

**5.13** Use of insufficient lubricants or use of lubricants which are not as per UV standards & specifications.

**5.14** Use of parts other than UV Genuine Parts.

**5.15** Any device and/or accessories not supplied by UV.

**5.16** Modifications, alterations, tampering or improper repair.

**5.17** Damaging the battery or tampering with the battery or intentionally attempting either by physical means, programming or other methods. Exposing the battery to direct flame or flooding the battery.

**5.18** Any public service Motorcycles such as police Motorcycles, paramedic Motorcycles and military Motorcycles.

**5.19** Any Motorcycle used for commercial purposes such as but not restricted to couriers, learning school, professional delivery, short or long term hire etc., patrol or any public or professional usage;

**5.20** Any damages to your vehicle's hardware or software or any loss or any harm or any personal information/data uploaded to your vehicle resulting from any modifications or unauthorized access to vehicle data or software from any source, including, but not limited to non-UV parts or accessories, modifications, third party applications, viruses, bugs, malware or any other form of interference or cyber attack;

**5.21** Parts used in applications of which they were not designed or not approved by UV;

**5.22** Slight irregularities not recognized as affecting quality or function of the vehicle or parts, such as slight noise or vibrations, or items considered characteristic of the vehicle;

**5.23** Paint scratches, dents or similar paint or body damage;

**5.24** Damages caused due to towing the vehicle;

**5.25** The environment or the act of god, including, but not limited to, exposure to sunlight, airborne chemicals, tree sap, animal or insects dropping, road debris (stone chips, gravel etc.), industry fallout, rail dust, salt, hail, floods, wind and such other act of gods, water contamination and other environmental conditions;

**5.26** Using the vehicle as a stationery power source except with UV authorized equipment;

**5.27** Incidental or consequential damages, including without limitation, loss of time, loss of life, inconvenience, loss of use of vehicle or commercial loss;

**5.28** Injury, loss or damage that is caused by the (a) Ionising radiation or radioactive contamination from any nuclear fuel or the nuclear waste arising from burning nuclear fuel (b) The radioactive, toxic, explosive or other dangerous properties of any explosives, nuclear equipment or nuclear part of that equipment;

**5.29** Any loss, damage or failure which a qualified engineer, appointed by the UV, thinks could have been avoided or was totally or partly caused by lack of maintenance;

**5.30** Any damage which is due to any type of accident or which is negligent or against the law of the country in which the incident occurred;

**5.31** Any loss where the fault or damage occurred due to the Motorcycle being ridden following the initial failure;

**5.32** Audio Systems, auxiliary battery, tyres and tubes originally equipped on UV vehicles are warranted directly by the respective manufacturers and not by UV;

**5.33** This warranty is the entire warranty given by UV and no dealer or its or his agent or employee is authorized to extend or enlarge this warranty and no dealer or its or his agent or employee is authorized to make any oral warranty on UV's behalf;

**5.34** UV reserves the right to make any change in design or make any improvement on the vehicle at any time without any obligation to make the same change on vehicles previously sold;

**5.35** Warranty service shall be provided UV or by UV authorized Centres;

**5.36** UV's decision is final and binding on the Owner of the vehicle in all warranty matters;

## **6. Process To Claim Warranty**

At UV, we aim to make the warranty claims procedure as simple as possible. For any warranty claims, please visit the nearest UV Authorised Service Centres.

### **6.1 Important points for warranty claim**

**6.1.1** No repair work should be started before approval and authorisation by UV/ UV authorised representative.

**6.1.2** UV Authorised Service Centres or its employees/authorised representatives will not pay any claim until UV has received a completed claim form (when requested) and related invoices. Proof of service history and motorcycle RC copy required.

**6.1.3** UV is the sole authority to take decision on warranty claim and the same will be final and binding.

## **7. Damages**

UV hereby disclaims that UV shall not be liable for any and all indirect, incidental, special and consequential damages arising out of or relating to your vehicle, including, but not limited to, transportation to and from a UV Authorised Centres, loss of vehicle value, loss of time, loss of income, loss of use, loss of personal or commercial property, inconvenience or aggravation, emotional distress or harm, commercial loss (including but not limited to lost profits or earnings), towing charges, bus fares, vehicle rental, service call charges, gasoline expenses, lodging expenses, damage to tow vehicle, and incidental charges such as telephone calls, etc.,.

## 8. Warranty Limitations Subject To Consumer Law

This document contains the full extent of the warranty provided by Ultraviolette. No dealer or agent is authorized to make any modifications to this warranty. Ultraviolette reserves the right to make changes to the design or improvements to its vehicles at any time without obligation to apply the same changes to previously sold vehicles.

### IMPORTANT

**LEGAL RIGHTS:** This warranty gives you specific legal rights, and you may also have other rights that vary from region to region. Contents are subject to change without notice.

Warranty				
Vehicle	STANDARD WARRANTY	UV CARE [Battery, MCU, Motor]	UV CARE+ [Battery, MCU, Motor]	UV CARE MAX [Battery, MCU, Motor]
F77 Original	3 Yrs or 30,000 Kms	3 Yrs or 60,000 Kms	5 Yrs or 1,00,000 Kms (Optional)	
F77 RECON	3 Yrs or 30,000 Kms		5 Yrs or 1,00,000 Kms	8 Yrs or 8,00,000 Kms (Optional)
F77 RECON LIMITED	3 Yrs or 30,000 Kms			8 Yrs or 8,00,000 Kms
F77 MACH 2	3 Yrs or 30,000 Kms	3 Yrs or 60,000 Kms	5 Yrs or 1,00,000 Kms (Optional)	
F77 MACH 2 RECON	3 Yrs or 30,000 Kms		5 Yrs or 1,00,000 Kms	8 Yrs or 8,00,000 Kms (Optional)

## Warranty of GPS Device

The GPS device warranty is provided by the device's manufacturer. Ultraviolette is not liable for the GPS device warranty. For warranty support or inquiries regarding the GPS device, please contact us, and we will provide you with the manufacturer's contact information.

**NOTE** Refer to the product website for detailed terms and conditions of the GPS device warranty.

## Periodic Maintenance and Services

Maintaining your Ultraviolette F77 at scheduled intervals at an Authorized Service Center is crucial for warranty eligibility. Regular servicing will ensure your vehicle performs at its best. For any clarifications or assistance, please contact our Service Department with your vehicle's details, including the frame and traction motor serial numbers, date of purchase, and the Authorized Dealer's name and location.



## Service Contact

Service Department,  
**Ultraviolette Automotive Private Limited,**  
No.74/1, New No. 139/35, Krishna Reddy Colony,  
Domlur, Bengaluru, Karnataka, 560071  
[info@ultraviolette.com](mailto:info@ultraviolette.com)

**Software Management:** The F77 is equipped with advanced software that is periodically updated to enhance functionality and performance. Ultraviolette is not liable for any issues that may arise from updates not being installed or from third-party software interference. Users are encouraged to install all software updates promptly to ensure the best vehicle performance and safety.

**Battery Maintenance:** To maintain the battery's longevity and performance, adhere strictly to the charging and maintenance guidelines provided. Failure to follow these guidelines may result in reduced battery life and can void the warranty. Regular battery maintenance is crucial for the optimal operation of your F77.

**GPS Device:** The GPS device installed in the F77 provides location tracking and navigation assistance. Ultraviolette is not responsible for the accuracy or reliability of GPS data. Any issues related to GPS functionality should be directed to the device manufacturer.

**Roadside Assistance Policy:** Ultraviolette offers a Roadside Assistance Policy for added peace of mind. This policy outlines the services provided, response times, and limitations. Please refer to the policy document for detailed terms and conditions.

**Vehicle Storage:** Store your F77 in a cool, dry place away from direct sunlight and extreme temperatures. Proper storage conditions are essential to prevent damage and maintain the integrity of the vehicle's components.

**Dispute Resolution:** In the unlikely event of a dispute, Ultraviolette encourages the use of arbitration or mediation as a first step towards resolution. This approach is designed to provide a quicker, more cost-effective alternative to litigation.

**Intellectual Property Rights:** All designs, trademarks, and patents associated with the F77 are the property of Ultraviolette and are protected by intellectual property laws. Unauthorized use or infringement of these rights is strictly prohibited.

**Modifications:** Any modifications or customizations to the F77 not approved by Ultraviolette may void the warranty and could negatively affect the safety and performance of the vehicle. Always consult with an authorized service center before making changes to your vehicle.

**Emergency Procedures:** In case of a battery failure or electrical malfunction, refer to the emergency procedures outlined in this manual. For immediate assistance, contact Ultraviolette's customer support or roadside assistance service.

**Responsible Disposal:** At the end of your vehicle's life, or when replacing components, please follow the proper recycling and disposal procedures, especially for the battery. Ultraviolette is committed to environmental responsibility and sustainability.

**Governing Law:** This manual and the warranty terms contained herein are governed by the laws of the jurisdiction where Ultraviolette is headquartered, unless otherwise specified.

**Legal Contact:** For any legal queries or concerns regarding the warranty or vehicle, please contact Ultraviolette's legal department at [legal@ultraviolette.com](mailto:legal@ultraviolette.com).



10

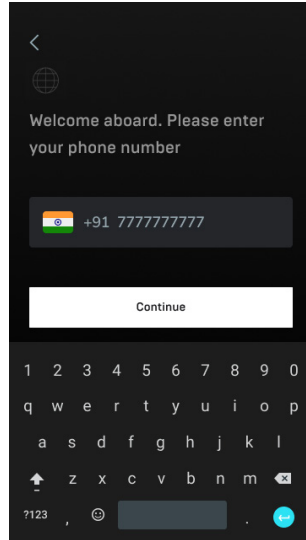
# MOBILE APP

- + Setting Up
- + Home Screen
- + Diagnostics Section
- + Controls Section
- + Navigation Section
- + Statistics Section

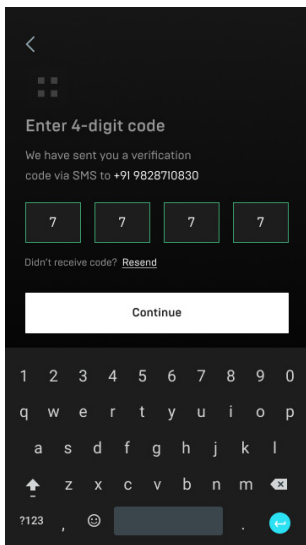
# Setting Up



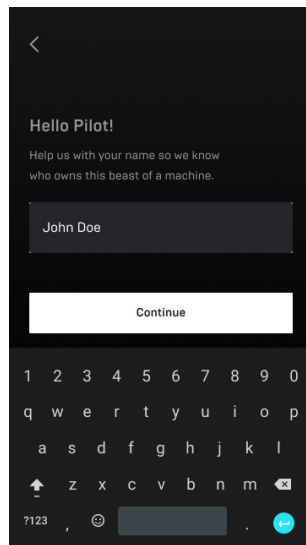
1. Get Started.



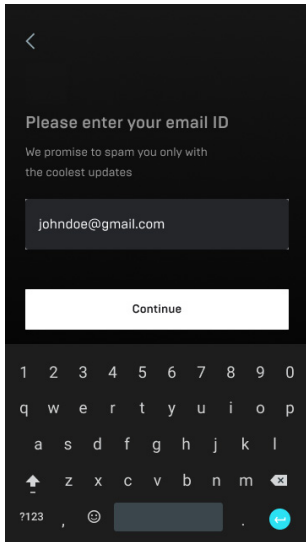
2. Setup using your registered Phone No.



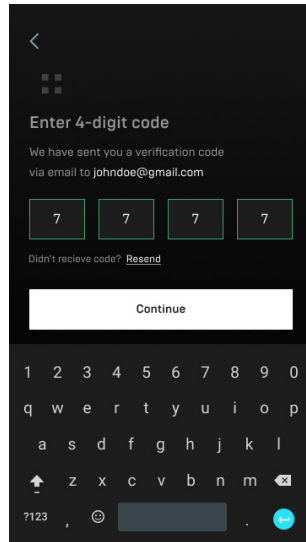
3. Enter OTP.



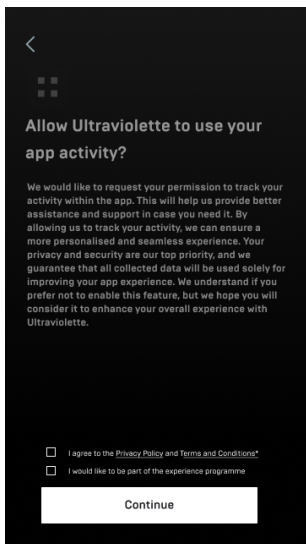
4. Enter Your Name.



5. Enter your Email ID



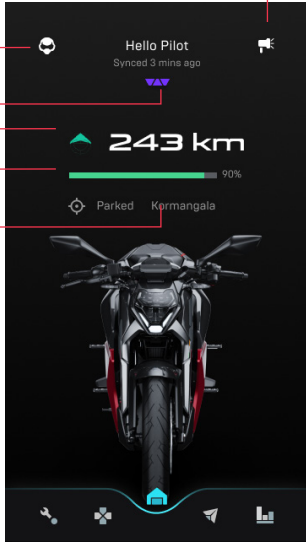
6. Enter the OTP sent to your email.



7. Review & Accept the Terms.

# Home Screen

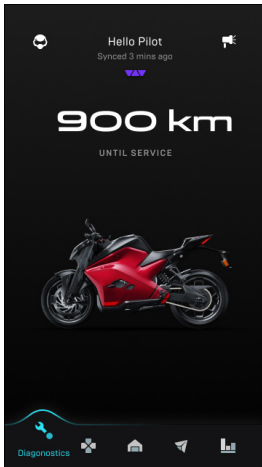
- Assist Section  
(For owner's manual, RSA, contact us, feedback sections)
- Settings Section  
(For the profile and vehicle info section)
- Violette
- Ride Mode
- Battery SoC & Range
- Vehicle Status  
Parked/in-flight



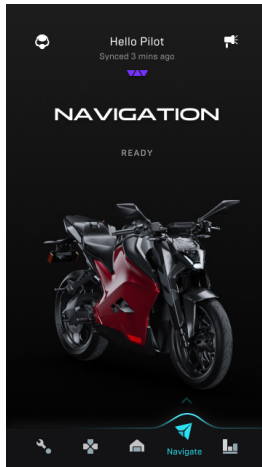
1. Home.



2. Controls.



3. Diagnostics.

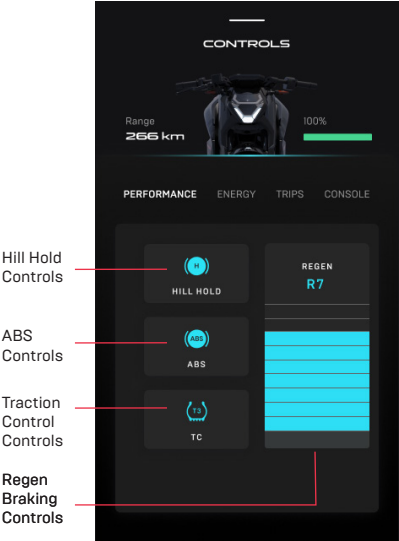


4. Navigation.

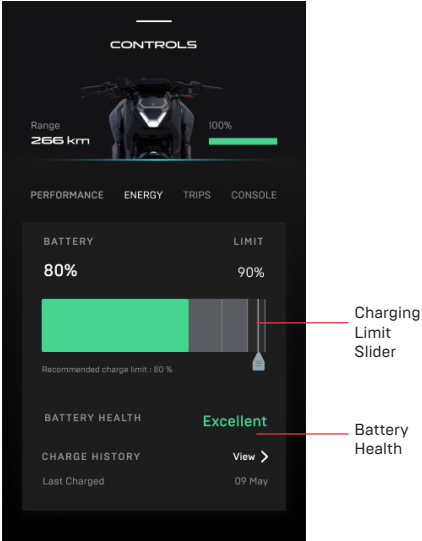


5. Statistics.

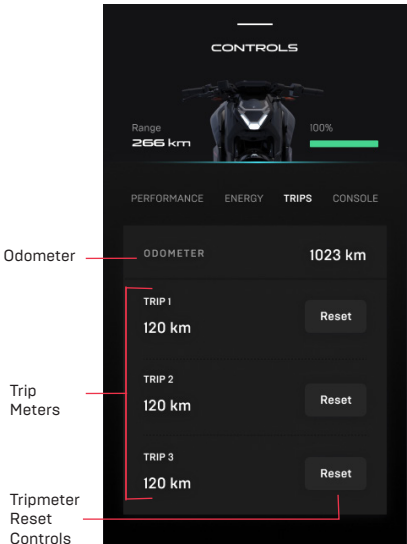
# Controls Section



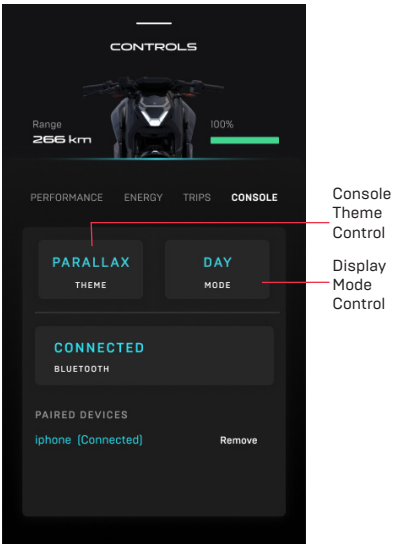
1. Performance.



2. Energy.

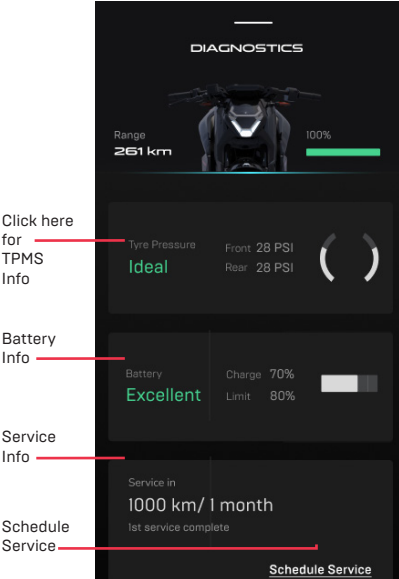


3. Trips.



4. Console.

# Diagnostics Section

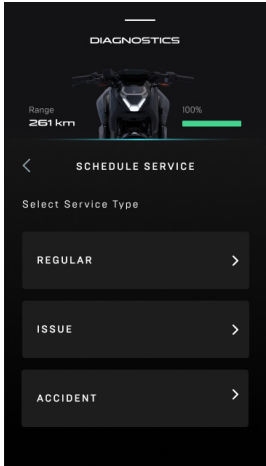


1. Diagnostics dashboard.

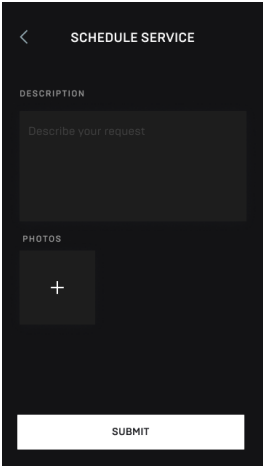


2. TPMS Info.  
 \*\* TPMS features are available only when bought as an accessory from Ultraviolette.

service > **schedule service**



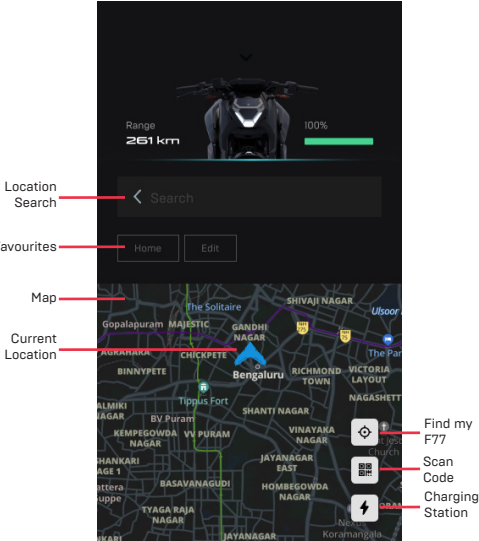
1. Choose Service Type.



2. Enter details/concerns.

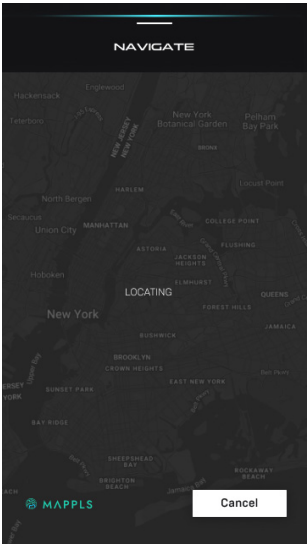


# Navigation Section

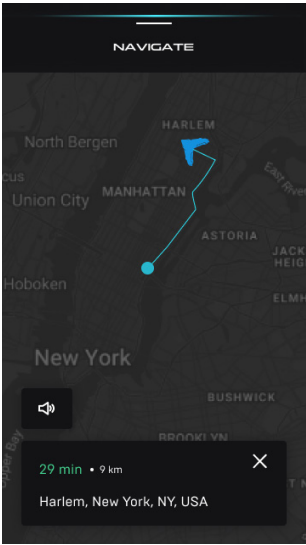


1. Navigation Home

## Navigation > Find My F77

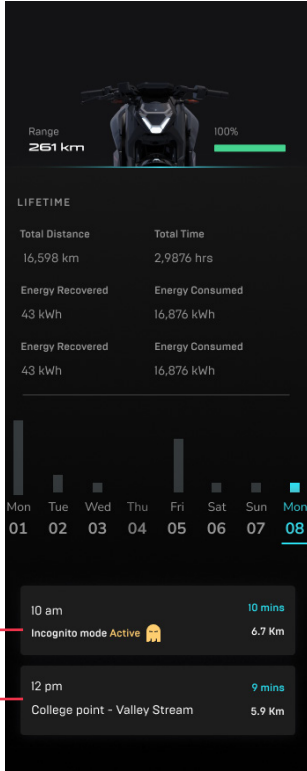


1. Initiating Find MY F77.

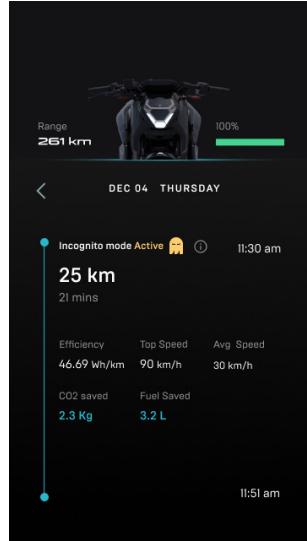


2. Calculates fastest route to F77.

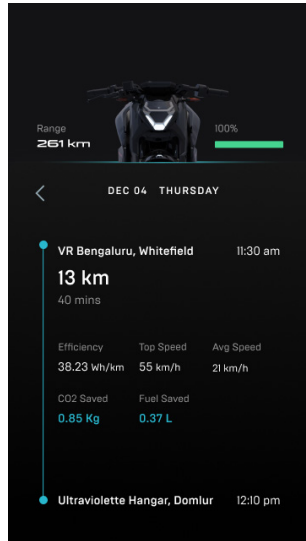
# Statistics Section



1. Statistics Home Screen.

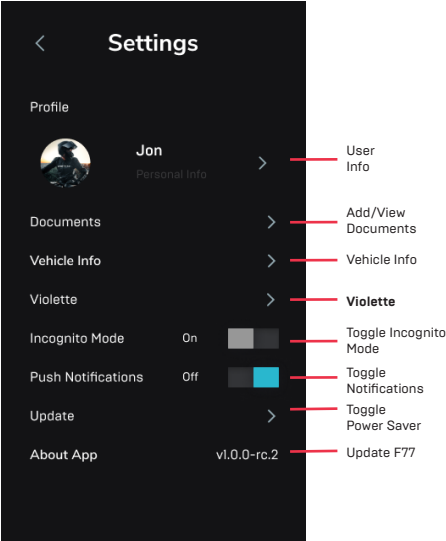


2. Incognito Ride Details.



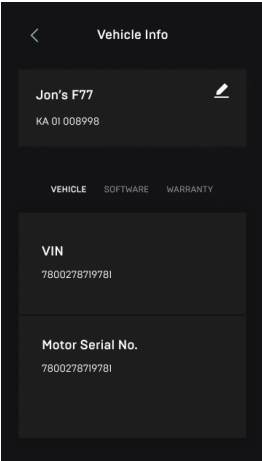
3. Previous Ride Details.

# Settings Section

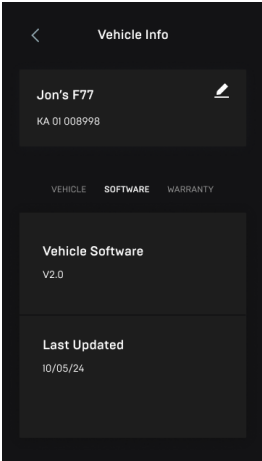


1. Settings Section.

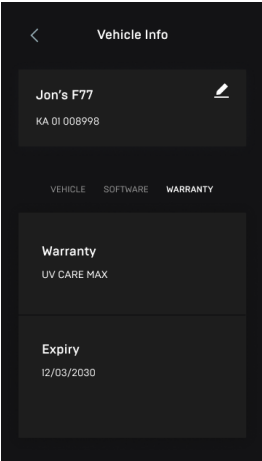
## Settings > Vehicle Info



1. Vehicle Identification.



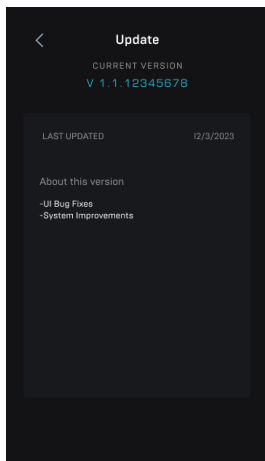
2. Vehicle Software Info.



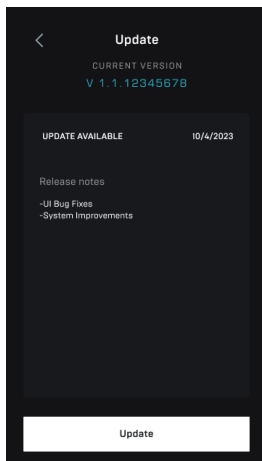
3. Vehicle Warranty Info.

# Settings Section

Settings > Update



1. Up-to-date.



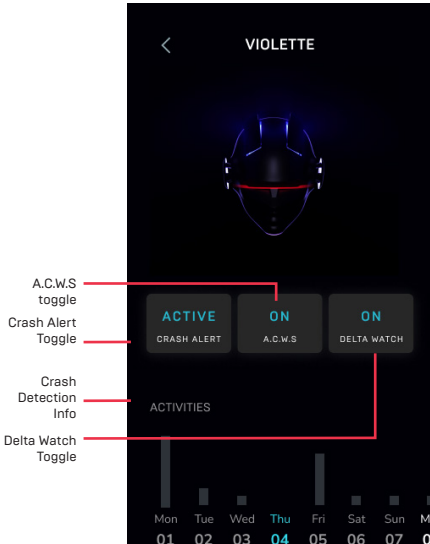
2. Update available.

## NOTE

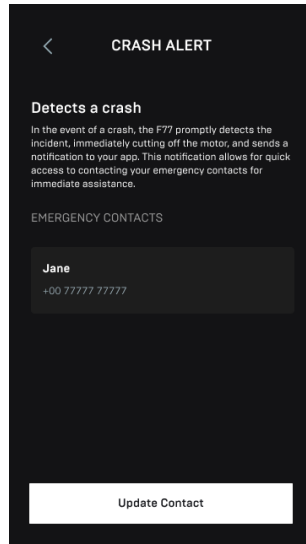
Do not restart the bike or unplug the charger until update is complete.

# Settings Section

Settings > **Violette**

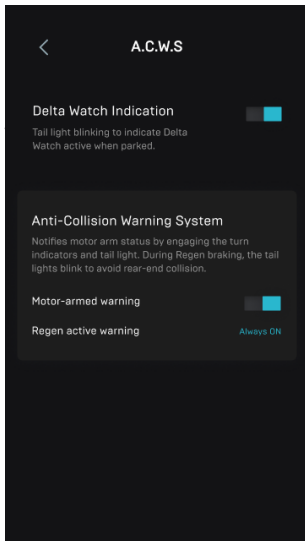


Violette > **Crash Alert**



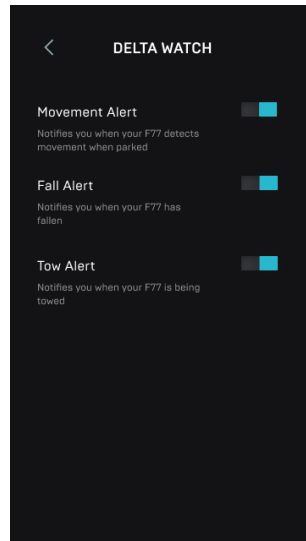
1. Emergency contact in crash detection.

Violette > **Beacon (A.C.W.S)**



2. A.C.W.S Toggles.

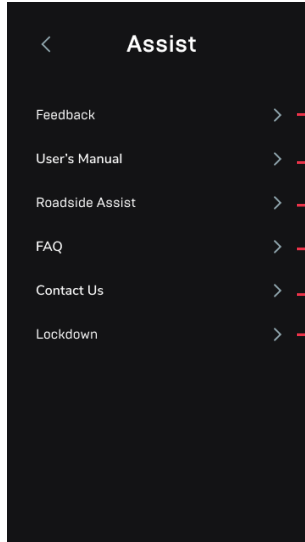
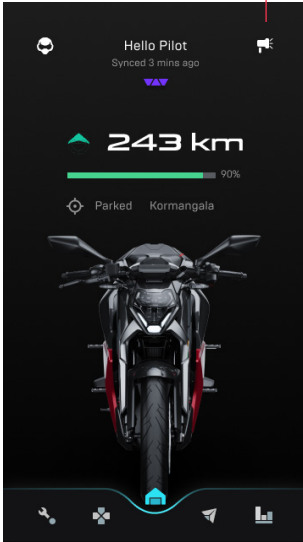
Violette > **Delta Watch**



3. Delta Watch Toggles.

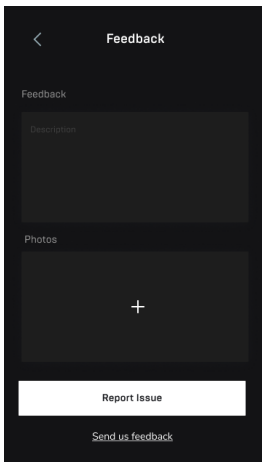
# Assist Section

Assist Section  
(For owner's manual,  
RSA, contact us,  
feedback sections)

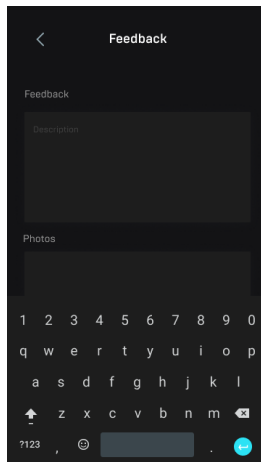


- User Feedback
- User Manual
- Contact Roadside Assistance
- Frequently Asked Questions
- Contact Us
- Lockdown Mode

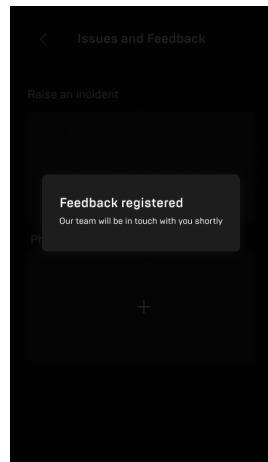
## Assist > Feedback



1. Report issue.



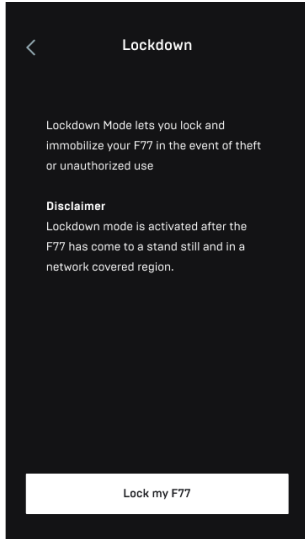
2. Enter feedback.



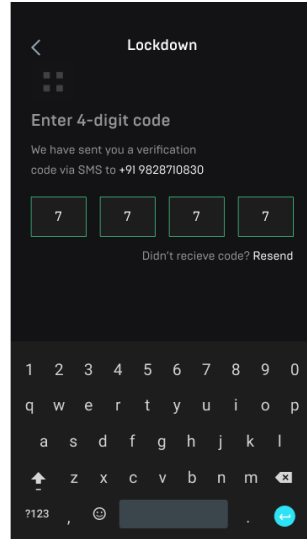
3. Feedback registered.

# Assist Section

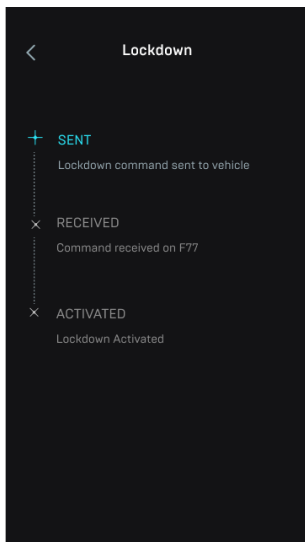
Assist > Lockdown



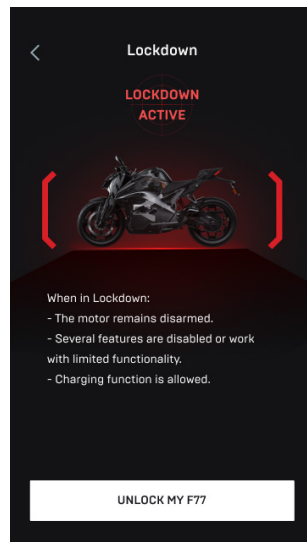
1. initiate Lockdown.



2. Enter 4- digit code to verify.



3. Lockdown activated.

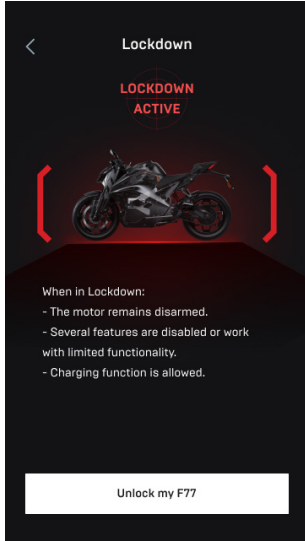


4. F77 Lockdown complete.

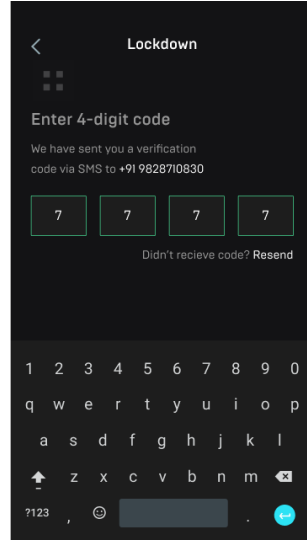
**Disclaimer:** Lockdown mode is activated after the F77 has come to a stand still and in a network covered region.and immobilize your F77 in the event of theft or unauthorized use.

# Assist Section

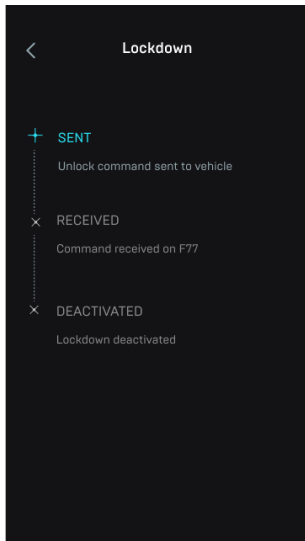
Assist > Lockdown



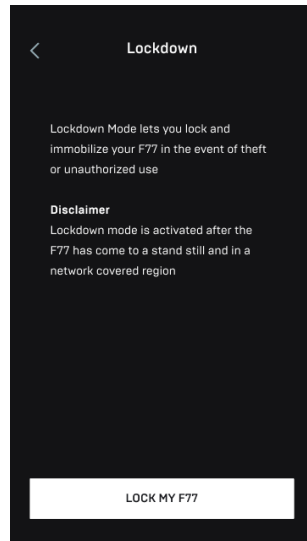
1. Initiate Unlock.



2. Enter 4- digit code to verify.



3. Unlock activated.



4. F77 Unlock complete.





10

# SERVICE DIY

- + Tools and Description
- + Head Light Adjustment
- + Fuse Replacement
- + Brake Pads Replacement

# Tools and Description

**1. Flat Head Screwdriver**

This tool is to be used for removing the mirror caps.



**2. 8mm Open End Spanner**

This tool is to be used for loosening/ tightening the mirror mount bolts.



**3. 8mm Allen Key**

For rotational adjustment of mirrors use this tool for loosening/ tightening of mirror bolts.



**4. 4mm Allen Key**

This tool is to be used for adjusting rotational adjustment of lever guards



## 5. 5mm Allen Key

This tool is to be used for loosening/ tightening Bolts for removing and refitting of rider seat.

**NOTE** : Pillion seat needs to be removed before removing rider seat.

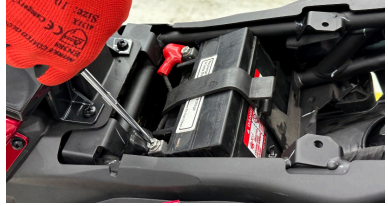


## 6. Star Head Screwdriver

This tool is used for loosening / tightening Battery terminal bolts only if required.

**NOTE** : Negative(-ve) terminals must be removed first, and during installation, Positive(+ve) terminal be connected first.

This tool is also to be used for adjusting headlamp beam level after removing the LHS front fork back cover.



## 7. Pre-Load Adjuster

This Special tool is to be used for adjusting the front suspension pre-load.

**NOTE** : Make sure both right and left front suspension pre-load adjuster is equal or else there would be non-uniform wear and tear and discomfort in riding.



## F77 Headlight Beam Adjustment

Adjusting the headlight on a motorcycle is important for optimal visibility and safety. Here's a general guide on how to adjust the headlight:

### Tools Required:

Phillips Head Screwdriver

Measuring Tape

1. Ensure the tires are properly inflated to the recommended pressure.
2. Park your F77 on a level surface 5 meters away from a perpendicular wall as shown in the Fig 1. Make sure both the front and the rear wheels are touching the ground during this operation.

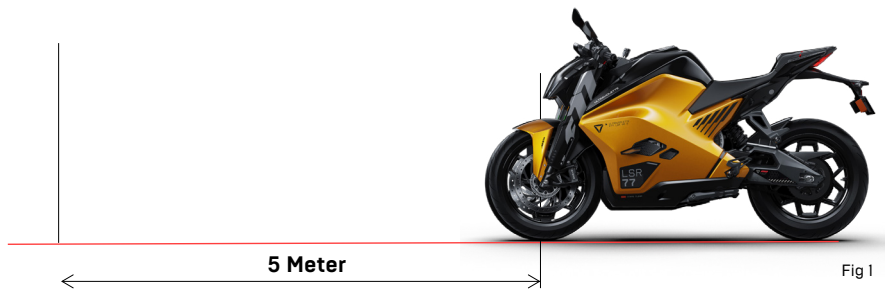
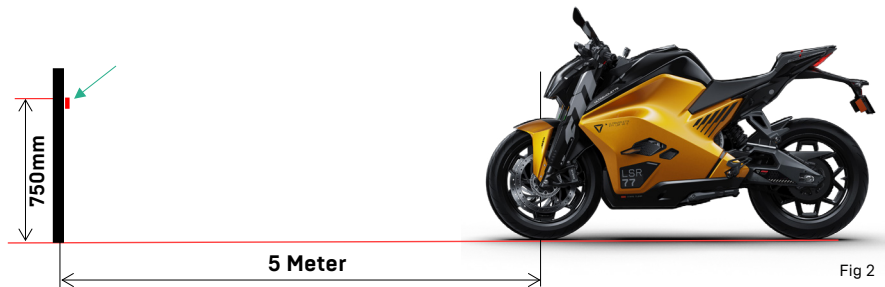


Fig.1

3. Using a marker or a tape, mark the wall at a height of 750 mm as shown.



4. With a load of 75 kg on the vehicle, switch on the vehicle and with headlight in low beam as shown.

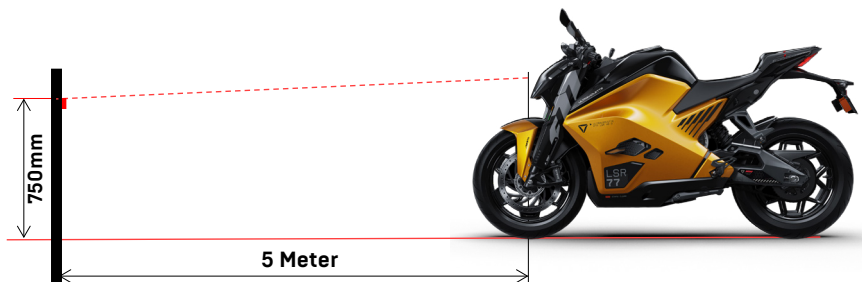


Fig.3

5. The top-most brightest line of the head light low beam should be on the line marked on the wall. If it is not coinciding, the head light beam height needs adjustment. Fig 4 shows an improperly adjusted head light beam, where the beam is below the marked line.

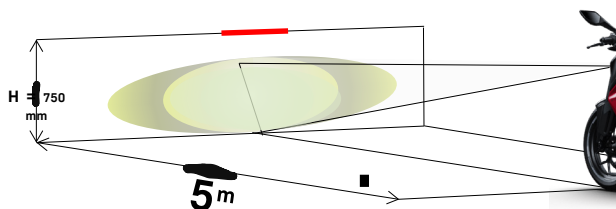


Fig.4

6. To adjust the head light beam height, open and remove the USD fork back cover using Philips screwdriver as shown.

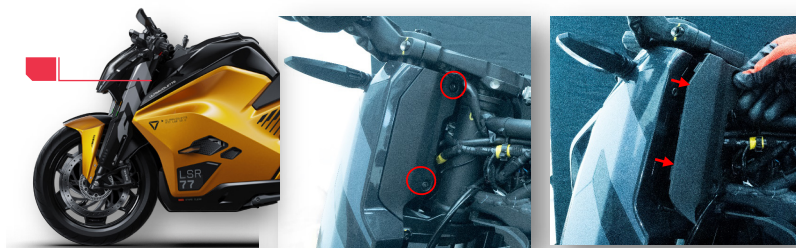
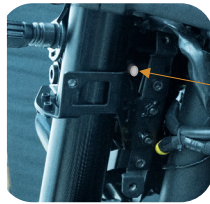
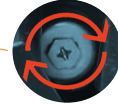


Fig.5

7. Adjust the Philips screw shown in the Fig 6 to increase or decrease the beam height.

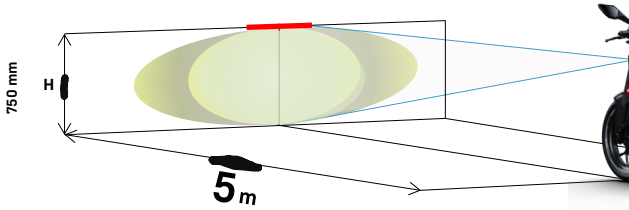


Clockwise rotation increases beam height



Anti-clockwise rotation reduces beam height

**Fig.6**



**Fig.7**

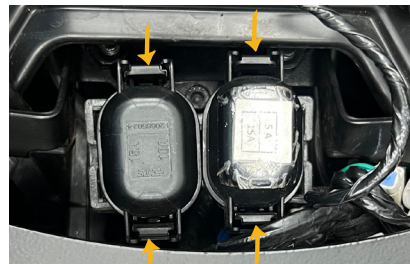
8. Fig 7 shows the corrected beam height.

## F77 Fuse Replacement

- A fuse , otherwise called as a Safety fuse is a major safety device in any electrical circuit.
- It is sometimes termed as a body-guard of the circuit.
- Fuse saves a system against damage due to excessive flow of current due to various reasons.

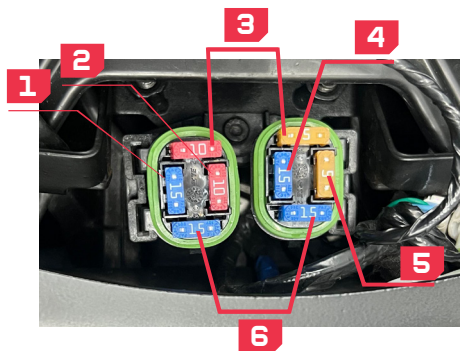
### Procedure of checking fuse

1. Unlock and remove the pillion seat.
2. Press the lock clips, lift and open the fuse cover as shown.



3. The fuses and their applications.

1. 15A ABS MAIN
2. 10A ABS SUB
3. SPARE
4. 15A DC-DC OUTPUT
5. 5A VCU
6. SPARE



4. Fuse gets blown due to excessive current flow through it. Below could be a few reasons for it.
  - a. Wrongly rated fuse assembled  
[5 Ampere fuse installed in a 15 Ampere fuse slot]
  - b. Short circuit due to faulty wiring
  - c. Over-loaded electrical system
  - d. Faulty auxiliary battery

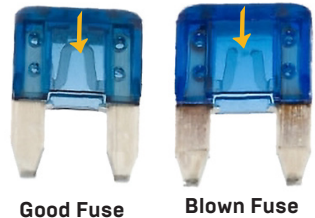
5. Figure shows a good fuse and a blown fuse respectively.
6. Check the fuse manually by pulling out the fuse from its socket.

**NOTE** : Avoid using Multimeter to check fuse continuity. It could damage electrical components and may show false reading sometimes.

7. Replace a blown fuse with a spare fuse of same Amperage.

**NOTE** Never replace a blown fuse with a spare fuse of lower or higher amperage.

8. If the fuse blows out repeatedly, contact nearest UV service point.





## F77 Brake Pad Replacement

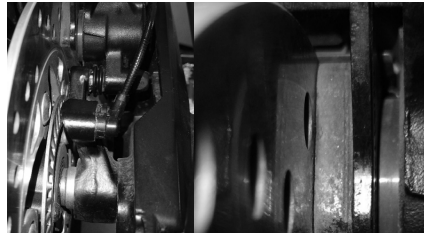
- Brake pads play a pivotal role in safety of the motorcycle, the rider and the other road users.
- Brake pads should be replaced before it is worn out completely.
- Brake pads wear off as per the usage.
- It is impossible to determine the life of the brake pad without looking into the parameters like ride pattern, road condition, density of the traffic, speed of operation etc.
- Brake pads are considered as wear and tear items.

### Tools Required/Items required:

- 3 mm drift pin
- Ball peen hammer
- 6 mm Hex socket key (Allen key)
- Gloves
- T-30 Torx key
- 300 mm Drift punch
- Nose plier

### Steps for Rear Brake Pad Replacement

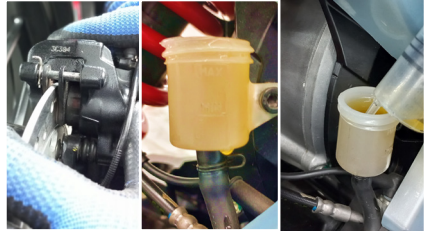
1. Check the brake pad wear. If the brake pad is worn out, the pad needs to be replaced.



2. If the brake pad needs replacement, remove the cover of rear brake fluid reservoir.



3. Slowly push the rear brake caliper piston inside by making sure that the brake fluid does not overflow from the reservoir. If the brake fluid in the reservoir raises more than the maximum limit, remove the excessive brake fluid.



- Brake fluid is toxic and belongs to special waste.
- Damages varnishes and plastics.
- Avoid spillages. If spilled, rinse off spilled liquid with water multiple times.
- Store the old liquid in special packaging and do not mix with old oil.
- The color of the brake fluid does not indicate quality.
- Brake fluid should be stored in a dry, cool, and well-ventilated place.

4. Remove the  $\beta$  clip using a nose plier and gently punch out the disc pad lock pin using a 3 mm drift pin and a hammer.



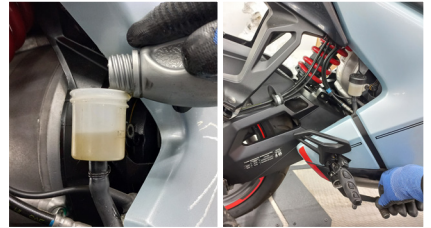
5. Shows a new brake pad and a worn-out brake pad. The brake pad should be replaced when the wear indicator is not visible.



6. Pull out the wornout brake pads and insert the new brake pads. Insert the disc pad lock pin and  $\beta$  clip.

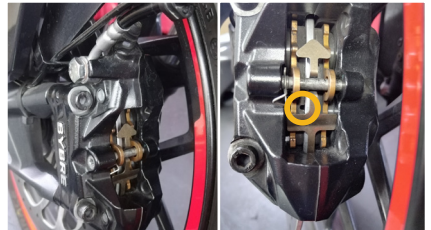


7. Add fresh DOT 4 brake fluid and pump the rear brake pedal till the brake is loaded.

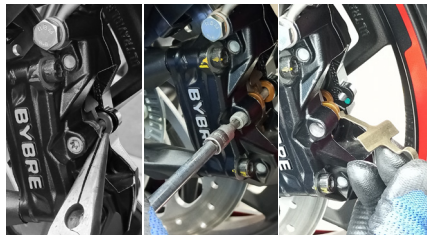


### Steps for Front Brake Pad Replacement

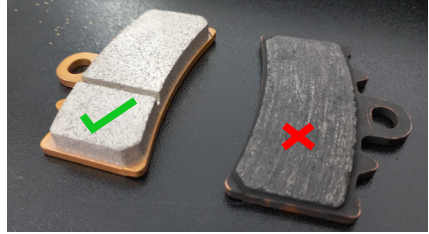
1. Check the brake pad wear. If the brake pad is worn out, the pad needs to be replaced.



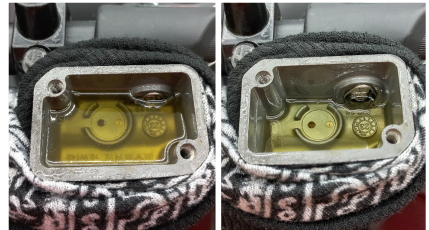
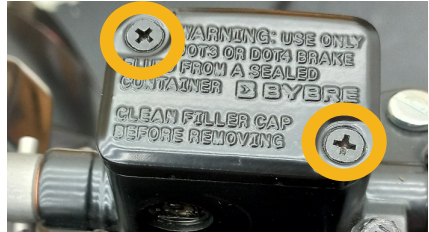
2. Remove the lock clip using a nose plier and remove the brake pad lock pin using a T30 Torx key and remove the retainer spring and brake pads.



3. A new brake pad and a worn out brake pad. The brake pad should be replaced when the wear indicator is not visible.




4. Open the front brake reservoir cap and remove the excess brake fluid.



5. Remove the caliper from the LH USD fork using 6 mm Hex key and push the 4 caliper pistons inside

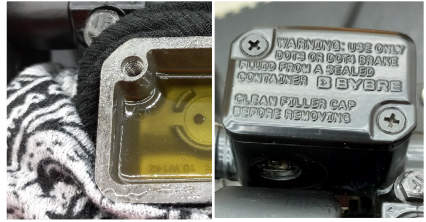
**NOTE** : Keep a watch on the reservoir to avoid overflow of brake fluid while the front caliper pistons are pushed in.



6. Assemble the front brake caliper and torque the caliper mounting bolts to  **28 Nm** and insert the new brake pads, retainer springs, brake pad lock pin and the clip.



7. Fill the reservoir with fresh DOT 4 brake fluid, actuate the front brake lever till it gets loaded, top up the brake fluid in the reservoir and assemble the reservoir cover.



Ultraviolette Automotive Private Limited will not be held liable for any personal injuries or damages of any type to the rider and any other person due to the failure of any part of the vehicle.

Ultraviolette Automotive Private Limited will not be liable for any incident of fire to the vehicle due to tampering with the vehicle wiring, faulty house wiring, charging in an unventilated area, or charging with inflammable objects in the vicinity.

**NOTE :**

Ultraviolette Automotive Private Limited reserves the right to change and withdraw any clause of Warranty policy without prior information or notification. For detailed terms and conditions related to Warranty, please refer **SALE TERMS AND CONDITIONS**.

**Ultraviolette Support**

[www.ultraviolette.com/support](http://www.ultraviolette.com/support)



©LJV [REDACTED] ALL RIGHTS RESERVED  
ULTRAVIOLETTE // DESIGNED & MADE IN INDIA  
AUTOMOTIVE [REDACTED] ULTRAVIOLETTE.COM



12°57'14.3"N [REDACTED] 77°38'27.2"E