

OWNER'S MANUAL

X47

CROSSOVER

UVAPL X47 OWNER'S MANUAL
UV/ASL6S/M/OM-X47_IN
REV. NO. 00
20/11/2025



ULTRAVIOLETTE

Hi Pilot,



Congratulations on taking charge of your X-47!

We're thrilled to have you on board the UV Squadron. To get the most out of your X-47, we recommend carefully reading through the owner's manual. It's designed to help you get familiar with your motorcycle, ensuring you enjoy its full potential while keeping safety, care, and performance in mind.

In this manual, you will find essential information on safe riding practices, best maintenance practices and recommendations for service by authorized Ultraviolette service centers.

At Ultraviolette, we are committed towards continuous improvement. As new technologies, equipment, and accessories are developed, we refine our motorcycle accordingly. Therefore, while this manual reflects the latest information available at the time of publishing, some illustrations or details may differ slightly from your specific model. Accessories shown may not be part of the standard fitment.

A digital version of the latest updated manual is also available on the official Ultraviolette website and on the Ultraviolette app. This ensures you always have the most current information at your fingertips, including FAQs and useful tips about your motorcycle.

Welcome to the future of riding!

Team Ultraviolette

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SAFETY DEFINITIONS

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

NOTE	Provides helpful tips or additional information to enhance understanding or improve operation of your EV motorcycle.
CAUTION	Highlights possible conditions that may cause damage to the motorcycle or its components.
WARNING	Indicates a potential risk that could result in serious injury or death. Always follow safety instructions.
IMPORTANT	Important information that needs to be kept in mind while operating the motorcycle.
REMINDER	Useful procedures to ease your overall riding experience.
CARRY ALONG	Useful tools/articles to ease your ownership experience.
	Apply Specified Torque

SAFETY AND OWNER'S RESPONSIBILITIES

- The X-47 is a high-performance motorcycle and must be operated with caution. Always adhere to local traffic laws and regulations for a safe riding experience.
- Do not operate the motorcycle if you are not fit to ride due to medication, alcohol or drugs.
- Wear appropriate protective clothing (helmet, boots, gloves , trousers, jacket, etc.,) with protectors on all rides.
- When riding with a pillion, it is rider's responsibility to instruct them on safe riding practices.
- Always adhere to the instructions on your motorcycle labels, See ["Important Labels" on page 14](#) and promptly monitor all warning indicators and messages displayed on the main screen to ensure safe and efficient riding.
- Perform regular maintenance and care for your motorcycle as specified in this owner's manual.
- For optimal performance and safety, all recommended service and maintenance should be carried out as specified. Failing to perform routine maintenance can lead to decreased safety, poor performance, and a shorter lifespan for your motorcycle.
- Using the motorcycle in harsh environmental conditions such as dust, heavy rain, extreme heat, or with a heavy load can accelerate wear on various components (for eg: drive chain, brake system, suspension, etc.,) requiring earlier inspection or replacement.

WARNING

- Only Ultraviolette-authorized parts and approved accessories should be used. The installation of unapproved/ non-genuine components may compromise rider safety, affect motorcycle performance, and may void manufacturer's warranty.

ELECTRIC MOTORCYCLE PRECAUTIONS

Read and Understand All Instructions

Before operating the motorcycle, read and understand all warnings, safety labels, and instructions provided in this Owner's Manual. Failure to do so may result in improper operation or personal injury.

Qualified Rider Requirement

The motorcycle must only be operated by individuals who are properly trained and fully familiar with its controls, features, and operation procedures.

Electrical System Precaution

Do not attempt to remove, replace, or modify any electrical components or wiring. All electrical inspections, repairs, or replacements must be carried out exclusively by an authorized Ultraviolette Service Centre.

Standby Safety

To prevent accidental vehicle movement or injury while the motorcycle is in standby mode, ensure the motor is turned off or that a front and rear brake lever is firmly applied.

Brake Component Caution

Do not touch the disc brake plates or calipers immediately after operation. These components may reach high temperatures and can cause severe burns or injury.

LONG TRIP PRECAUTIONS

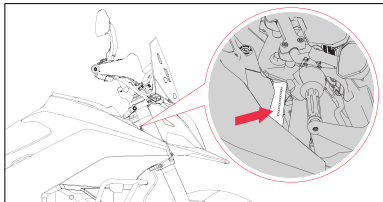
CATEGORY	PRECAUTION/ACTION
Battery & Charging Hardware	Charge System Check: Test the functionality of the portable charger and the onboard charger (if applicable).
	Cable and Adapter Check: Ensure there are no external damages to the charging cable and adapters.
Brakes, Tires & Suspension	Tire Condition & Pressure: Set tire pressure to the recommended value, check for external damages and tread depth.
	Brake System Inspection: Check wear on both brake pads, and ABS functionality.
	Suspension Check: Inspect front suspension and rear suspension for any signs of oil leaks or damage.
Mechanicals REMINDER	Drive Chain Inspection: Check chain slack & adjust if required, clean, and lubricate (every 500 km).
	Lights & Electronics: Check for working of all LED lights, indicators and horn.
Emergency Preparedness CARRY ALONG	Puncture Repair Kit: Ensure puncture repair kit and portable tyre inflator is carried.
	Toolkit & Spares: Carry essential tool and UV tool kit.

NOTE

If any noticable damage or signs of wear in the above mentioned points, please visit the nearest Ultraviolette Space Station.

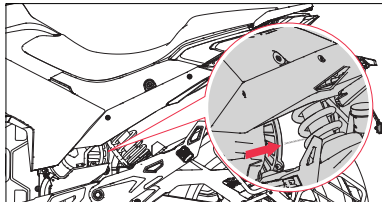
MOTORCYCLE IDENTIFICATION

Vehicle Identification Number



The Vehicle Identification Number is engraved on the right side of the steering headtube on the motorcycle. It is a 17-character alpha-numeric code that is unique to every motorcycle.

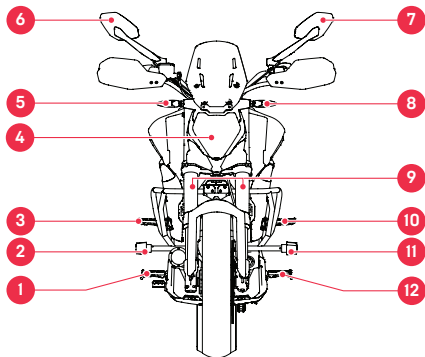
Motor Serial Number



The Motor Serial Number is engraved on the casing of the motor along with other details pasted as a label. It is visible from the rear side of the motorcycle near rear suspension.

KNOW YOUR X-47

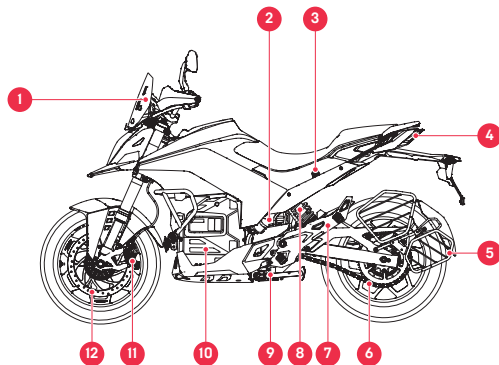
• FRONT VIEW



SL . NO	DESCRIPTION
1	Rider footpeg RH
2	Bullbar RH
3	Pillion footpeg RH
4	Headlight
5	Front turn indicator RH
6	Omnisense mirror RH
7	Omnisense mirror LH
8	Front turn indicator LH
9	Front fork LH & RH
10	Pillion footpeg LH
11	Bullbar LH
12	Rider footpeg LH

KNOW YOUR X-47

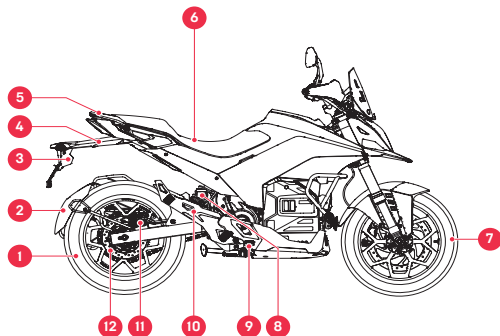
• LH VIEW



SL . NO	DESCRIPTION
1	Front visor
2	Motor
3	Seat lock
4	Tail light
5	Saree guard
6	Drive chain
7	Rider & Pillion footrest LH
8	Rear suspension
9	Side stand
10	Battery pack
11	Front brake caliper
12	Front disc

KNOW YOUR X-47

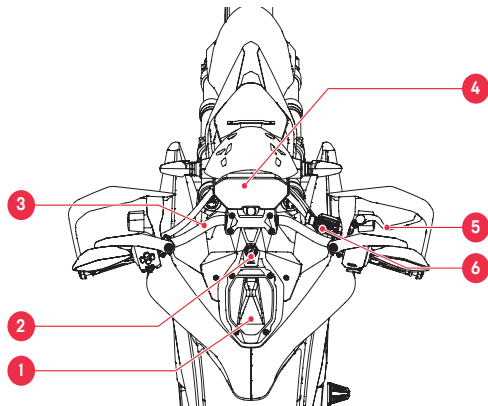
• RH VIEW



SL . NO	DESCRIPTION
1	Rear tyre
2	Tyre hugger
3	Radar unit
4	Tail stay
5	Grab handle
6	Rider & Pillion seat
7	Front tyre
8	Rear brake oil reservoir
9	Rear brake pedal
10	Rider & Pillion footrest RH
11	Rear brake caliper
12	Rear disc

KNOW YOUR X-47

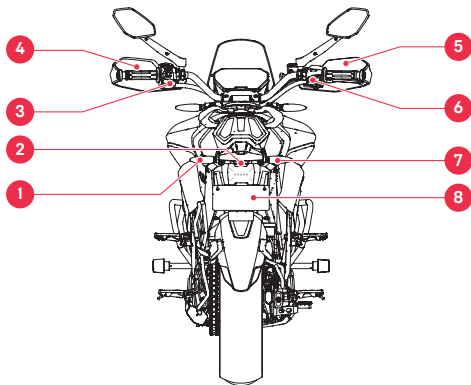
• TOP VIEW



SL . NO	DESCRIPTION
1	Charging flap
2	Key switch
3	Handle bar
4	Instrument cluster
5	Front brake lever
6	Front brake oil reservoir

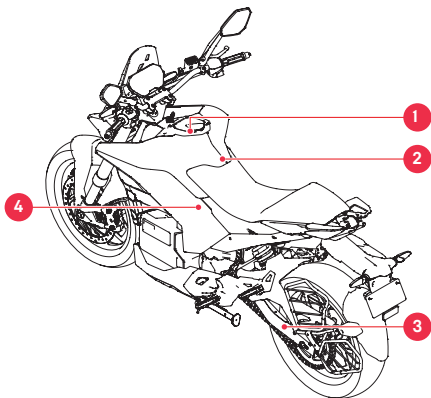
KNOW YOUR X-47

• REAR VIEW



SL . NO	DESCRIPTION
1	Rear turn indicator LH
2	Number plate light
3	Switch console LH
4	Knuckle guard LH
5	Knuckle guard RH
6	Switch console RH
7	Rear turn indicator RH
8	License plate

IMPORTANT LABELS



SL . NO	LABEL	POSITION	DESCRIPTION
1		This is positioned behind the charging port flap.	DC fast charging
2		This is positioned just ahead of the rider seat.	Rider warning alert
3		This is located on the left side of the swingarm.	Chain slack / Tyre pressure
4		This is located on the rear left side of the battery.	Battery Details

TECHNICAL DATA SHEET

X47 ORIGINAL/ORIGINAL+

X47 RECON/RECON+

PERFORMANCE

PEAK POWER	27 kW [36.2 hp]	30 kW [40.2 hp]
PEAK TORQUE	90 Nm	100 Nm
REAR WHEEL TORQUE	550 Nm	610 Nm
MAX SPEED	145 km/h	145 km/h
ACCELERATION (0-60 KMPH)	2.8 s	2.7 s
ACCELERATION (0-100 KMPH)	8.2 s	8.1 s
RIDE MODES	Glide, Combat, Ballistic	Glide, Combat, Ballistic
DYNAMIC REGENERATIVE BRAKING	3 levels included / 10 levels Included (10 levels optional)	10 levels included

RANGE ESTIMATES

RANGE (IDC est.)	211 km	323 km
range glide (Avg< 40 wh/km)	183 km	266 km
range combat (Avg< 52 wh/km)	144 km	209 km
range ballistic (Avg< 60 wh/km)	128 km	186 km

TECHNICAL DATA SHEET

X47 ORIGINAL/ORIGINAL+

X47 RECON/RECON+

UV HYPERSENSE

GEN6 77 GHZ LONG RANGE RADAR TECHNOLOGY

Lane change assist

Overtake alert

Blindspot Detection

Rear collision warning

Lane change assist

Overtake alert

Blindspot Detection

Rear collision warning

SAFETY

Auto dimming LED Headlight

Ultra-V position lamp

Dual LED tail light assembly

Central brake light

Front and Rear LED Hazard Lights

Auto dimming LED Headlight

Ultra-V position lamp

Dual LED tail light assembly

Central brake light

Front and Rear LED Hazard Lights

TRACTION CONTROL

1 Level included

4 levels on Original+ variant

4 Levels included

HILL HOLD

Included

Included

ABS

Mono & Dual channel

Mono & Dual channel

TECHNICAL DATA SHEET

X47 ORIGINAL/ORIGINAL+

X47 RECON/RECON+

D.S.C - DYNAMIC STABILITY CONTROL

Included

Included

CHARGING

CHARGING PORT

IEC 62196-6

IEC 62196-6

PORTABLE STANDARD CHARGER

20%-80% in 3 hrs

20%-80% in 5 hr

ON-BOARD CHARGER

[ONLY FOR X-47 ORIGINAL +, RECON +
AND DESERT WING VARIANTS]

20% - 80% in 2 hrs 40 min

20% - 80% in 4 hr

BOOST CHARGER (PARALLEL CHARGING)

[ONLY FOR X-47 ORIGINAL +, RECON +
AND DESERT WING VARIANTS]

20% - 80% in 1 hr 20 min

20% - 80% in 2 hr

UV SUPERNOVA PLUS

[12KW DC FAST CHARGING NETWORK]

20% - 80% in 40 min

20% - 80% in 60 min

TECHNICAL DATA SHEET

X47 ORIGINAL/ORIGINAL+

X47 RECON/RECON+

SMART TECH

VIOLETTE A.I

DELTA WATCH

LOCKDOWN

ANTI-COLLISION WARNING SYSTEM

CRASH ALERT

DAILY RIDE ANALYTICS

CONTROL CENTER

OPERATING SYSTEM

Optional

Multi-function 5" TFT
display with tactile input
switch console (L+R)

UV Automotive Linux OS

Optional

Multi-function 5" TFT
display with tactile input
switch console (L+R)

UV Automotive Linux OS

TECHNICAL DATA SHEET



UTILITY

CHARGE LIMIT	Included	Included
PARK ASSIST	Included	Included
FIND MY X-47	Included on Original+	Included
DEEP SLEEP	Included	Included
TPMS	Optional	Optional
TYPE-C CHARGING	Included	Included

BATTERY SYSTEM

BATTERY PACK	SRB7	SRB10
ENERGY CAPACITY	7.1 kWh	10.3 kWh
ENCLOSURE	All-Aluminium IP67-rated Enclosure	All-Aluminium IP67-rated Enclosure
BMS & SAFETY PROTOCOLS	Battery Management System with Patented 5-level Safety System Mechanical, Thermal, Electrical, Electronic & Software Protection	Battery Management System with Patented 5-level Safety System Mechanical, Thermal, Electrical, Electronic & Software Protection

TECHNICAL DATA SHEET

X47 ORIGINAL/ORIGINAL+

X47 RECON/RECON+

VEHICLE WARRANTY

STANDARD WARRANTY (VEHICLE) 3 years or 30,000 km*

3 years or 30,000 km*

BATTERY & DRIVETRAIN WARRANTY

UV CARE 3 years or 60,000 km included

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UV CARE PLUS 5 years or 1,00,000 km
(Original - optional)
(Original+ - Included)

5 years or 1,00,000 km included

UV CARE MAX N/A

8 years or 8,00,000 km (optional)

DRIVETRAIN

MOTOR Permanent Magnet AC Motor

Permanent Magnet AC Motor

THROTTLE CONTROL Ride-by-wire

Ride-by-wire

TECHNICAL DATA SHEET



MECHANICAL

FRAME	Steel Trellis with Aluminium Bulk Head	Steel Trellis with Aluminium Bulk Head
FRONT SUSPENSION	Upside-Down Telescopic fork with a diameter of 41 mm. Preload adjustable	Upside-Down Telescopic fork with a diameter of 41 mm. Preload adjustable
REAR SUSPENSION	Monoshock - preload adjustable	Monoshock - preload adjustable
BRAKE SYSTEM	Hydraulic disc brakes with dual-channel	Hydraulic disc brakes with dual-channel
BRAKE CALIPERS	Front: Fixed 4-Radial Piston Type Rear: Single Piston Floating Caliper Type	Front: Fixed 4-Radial Piston Type Rear: Single Piston Floating Caliper Type
BRAKE ROTOR	Front: 320mm disc Rear: 230mm disc	Front: 320mm disc Rear: 230mm disc
TYRES SIZE	Front: 110/70 R17 Rear: 150/60 R17	Front: 110/70 R17 Rear: 150/60 R17
TYRES MODEL	MRF Revz-AT 03	MRF Revz-AT 03

TECHNICAL DATA SHEET

X47 ORIGINAL/ORIGINAL+

X47 RECON/RECON+

DIMENSIONS

WHEEL BASE	1385 mm	1385 mm
SEAT HEIGHT	820 mm	820 mm
SADDLED SEAT HEIGHT	805 mm	805 mm
KERB WEIGHT	197 kg	208 kg
GROUND CLEARANCE	200 mm	200 mm
LENGTH	2060 mm	2060 mm
WIDTH	867 mm	867 mm
HEIGHT	1220 mm	1220 mm

TECHNICAL DATA SHEET

DESERT WING

EXCLUSIVE SANDSTORM COLOUR

10.3 KWH BATTERY PACK

UV HYPERSENSE RADAR TECH

[Rear COLLISION WARNING, Lane CHANGE ASSIST, Overtake ALERT, Blindspot DETECTION]

ON-BOARD CHARGER

DASHCAM MODULE

CRASH PROTECTION - Knuckle Guard + Bulbar

SOFT CASE PANNIER KIT

ADVANCED RIDE CONTROL PACK -

4 levels of Traction Control + 10 levels of dynamic regen braking

8 Y/8,00,000 KM BATTERY WARRANTY [UV Care Max]

DUAL CHANNEL ABS

DYNAMIC STABILITY CONTROL

VIOLETTE A.I.

GLIDE, COMBAT, BALLISTIC RIDE MODES

UV SUPERNOVA & SUPERNOVA+ NETWORK

PREMIUM CONNECTIVITY (WiFi+BT+LTE)

TYPE-C CHARGING

PARK ASSIST

FIND MY X-47

TPMS

CHARGE LIMITS

DEEP SLEEP

*all other specifications of the X-47 Desert Wing remain identical to those of the X-47 Recon+

TELL-TALES



TELL-TALES

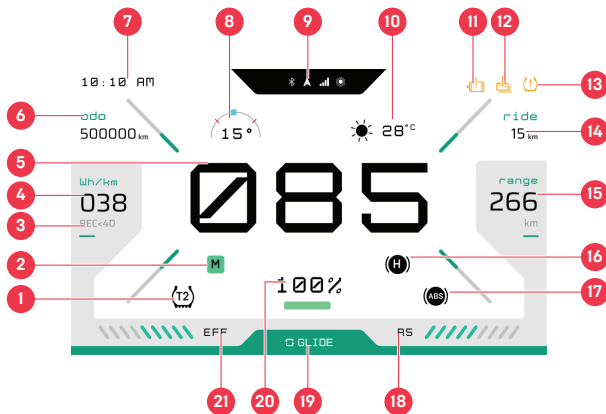
SL. NO	DESCRIPTION	SYMBOL	COLOR	FUNCTION
1	Ambient Light Sensor		-/-	ALS detects the surrounding light levels and automatically adjusts the display brightness and headlight settings for better visibility and safety.
2	ABS Malfunction Indicator		Amber	Blink - Light blinks when ABS is active. Solid - Illuminate, when the ignition is turned ON and remain lit until the motorcycle reaches 5 km/h. If the light stays on after exceeding this speed, it signals an issue with the ABS system. In that event, contact Ultraviolette support.
3	Traction Control		Amber	Blink - light blinks when Traction Control (TC) is active, then turns off. Solid - If light stays on, it means TC is either turned off or there's a system issue. Contact Ultraviolette support if this happens.
4	Critical Error Indicator		Red	Illuminates when the VCU detects a critical error in the motorcycle. Contact Ultraviolette support immediately if this happens.
5	Turn signal / hazard light indicator		Green	It flashes when the turn signal switch is operated on either side / hazard switch is pressed.

TELL-TALES

SL. NO	DESCRIPTION	SYMBOL	COLOR	FUNCTION
6	High beam Indicator		Blue	Illuminates when high beam is switched ON or Pass light is activated/pressed.
7	Regen Malfunction Indicator		Amber	Illuminates when regeneration (regen) is unavailable. This typically occurs if the main battery's State of Charge (SoC) is above 90%.
8	Service update indicator		Amber	Turns ON when the motorcycle undergoes an OTA (Over-the-Air) update.
9	Charging Indicator		Green	Blink -The indicator blinks while the motorcycle is actively charging.
10	Motor Armed Indicator		Green	Illuminate once the motor is armed.

USER INTERFACE

Vector



MOTOR HEALTH INDICATOR

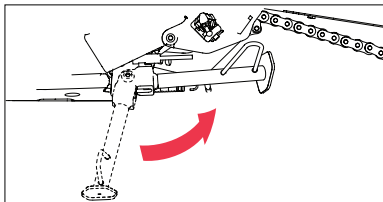
- M** Motor not armed
- M** Motor armed
- M** Motor temperature > 112° C
- M** Motor temperature > 120° C

USER INTERFACE

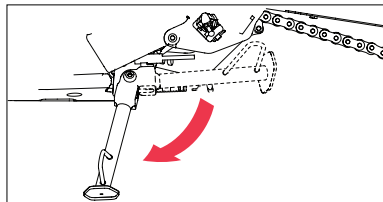
SL . NO	DESCRIPTION
1	Traction Control Indicator
2	Motor Health Indicator
3	Recommended power consumption
4	Watt-Hour / Kilometer
5	Speedometer
6	Odometer
7	Time
8	Dynamic Lean Angle
9	Connectivity
10	Weather Info
11	Motor malfunction Indicator

SL . NO	DESCRIPTION
12	Battery High Temperature Alert
13	TPMS Malfunction Alert
14	Current Tripmeter
15	Range in km
16	Hill Hold Indicator
17	ABS Mode Indicator (Mono/Dual)
18	Regen Level Bars
19	Current riding mode
20	Battery state of charge (SOC)
21	Efficiency bars

PARKING/SIDESTAND



Disengage (Put Up): Before attempting to ride, use your foot to fully retract the side stand and secure it against motorcycle body. X-47 will not allow you to ride if the side stand is down (in any drive mode).



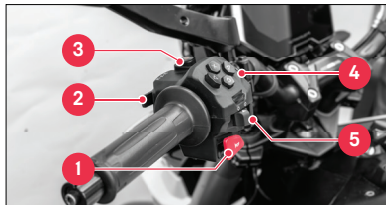
Engage (Put Down): While stopped, use your foot to push the side stand firmly down and forward until it is fully extended and motorcycle is stable.

CAUTION

- Always park motorcycle on a level and firm surface.
- An unbalanced motorcycle can fall over, which could cause damage to the motorcycle or injury to self.

SWITCH CONSOLE

LH Switch Console



SL . NO	DESCRIPTION	FUNCTION
1	Horn switch	Press to activate
2	High/ Low beam & Pass	Push the switch forward to activate (High beam). Press and release to flash the high beam. (Pass)
3	Hazard light switch	Press to activate, press again to deactivate.
4	Console Controls	Press to Activate
5	Turn signal switch	Push to either side to activate (Press inward to turn OFF).

CONSOLE CONTROLS

BACK

× Back
Hold × Home screen

LEFT

(-) Regen ◀ Home
Menu ◀ Menu
Navigation Key

RIGHT

Home ▶ (+) Regen
Menu ▶ Menu
Navigation Key

○
○
SET

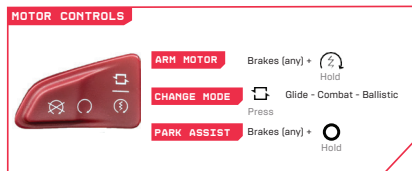
Menu (Disabled while riding)
Set

SWITCH CONSOLE

RH Switch Console



SL . NO	DESCRIPTION	FUNCTION
1	Motor disarm switch (Kill switch)	Press towards left to disarm the motor.
2	Motor arm / Change ride mode switch	Press and hold right – Motor Arm Press and release right – Change Ride Mode



Motor Start and Kill Procedure:

- To disarm/kill the motor, press or toggle the switch to left.
- To arm the motor, press and hold the switch to right while applying the breaks.
- To change the ride mode, press and release the switch to right. See [“Ride Modes” on page 33.](#)

THROTTLE CONTROL



X-47 is equipped with an electronic throttle control system that precisely regulates power delivery based on the rider's input. Throttle response varies across ride modes **Glide**, **Combat**, and **Ballistic** offering a balance between efficiency and performance. When the motorcycle is in motion and the throttle is fully closed, regenerative braking activates, converting kinetic energy into electrical energy and restoring it in the battery pack to improve efficiency. See ["Control-Performance-Regen" on page 71](#)

NOTE

Throttle control affects the motorcycle's efficiency (Wh/km), performance, battery charge, range, and regenerative braking.

WARNING

Do Not blip the throttle irresponsibly.

RIDE MODES



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

Glide mode



Optimized for maximum range, available between 100% to 5% State of Charge (SoC) band and battery temperature spectrum.

RIDE MODES

Combat mode



Balances performance and range, tuned for city rides, and available between 100% to 20% SoC.

Ballistic mode



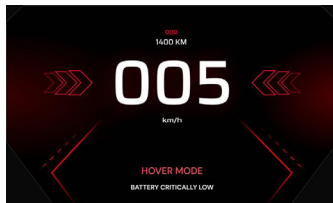
Delivers exhilarating acceleration and peak performance and available between 100% to 30% SoC.

NOTE

Ballistic Mode is automatically disabled if battery temperature exceeds 50°C.

RIDE MODES

Hover mode



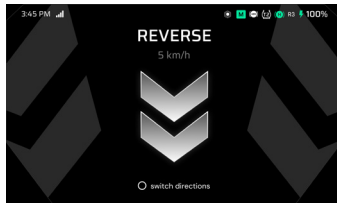
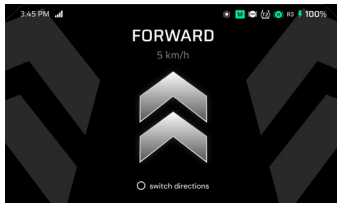
The motorcycle features a hover mode for emergency conditions, automatically activated at SoC reaching 5% to assist riders in reaching the nearest charging point by limiting motorcycle speed to 25 km/h. Range prediction is unavailable in this mode and varies between 5 km to 10 km depending on multiple factors.

CAUTION

Hover mode is not accessible for everyday use. It cannot be chosen from the ride mode switch and will automatically be activated at 5% SoC. Ultraviolette disclaims any liability for inconvenience or damage that may occur if the motorcycle runs out of charge while in Hover mode.

RIDE MODES

Park Assist



The motorcycle comes equipped with Park Assist to aid in manoeuvring 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 motorcycle speed must be zero.
- The maximum speed in Park Assist mode is locked to 5km/h in forward and 3km/h in reverse.

RIDE MODES

Motorcycle Range

The range of your Ultraviolette electric motorcycle—the distance it travels on a full battery—depends heavily on your riding habits. Factors like speed, acceleration, stops and starts, temperature, elevation, tyre pressure, and payload (rider + pillion, 75kg each) all affect range.

We recommend starting with a conservative riding style to get familiar with the bike and your route. Moderate acceleration and gentle braking help extend range, especially in city riding with frequent stops. For longer highway trips, try varying your speed to find the best balance between performance and efficiency.

Riding conservatively at first enhances safety and lets you better understand your motorcycle's capabilities. Below are optimal conditions to maximize your range.

ROUTE



Smooth & Paved
Roads



Pre-Planned
Charging Stops



Recommended
Wh/Km

RIDING STYLE



Tucked-In
Position



Gentle
Acceleration



Follow Speed
Limits

WEATHER



Warmer Weather



Less Wind



Dry Roads

MONITORING



Optimum Tyre
Pressure

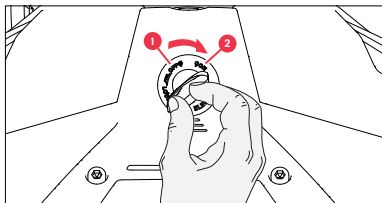


Recommended
Chain Slack



Optimum Regen
Activation

POWERING ON YOUR X-47



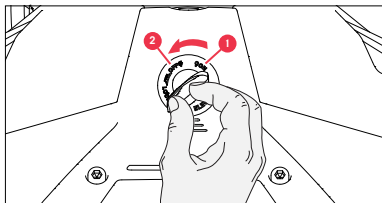
To start your motorcycle, turn the key clockwise to the ON position as shown picture.

The console will display a loading animation for approximately 15s during which the motorcycle will initialize all systems and land on the main home screen.

To arm the motor, press and hold the front brake lever or rear brake pedal along with a long press of the “Motor arm” switch. The motor armed tell-tale will glow to confirm that the motor is armed. For your safety, X-47 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 engaged by entering into the “Park assist” through the console controls. See ["Park Assist" on page 36](#)

POWERING OFF YOUR X-47

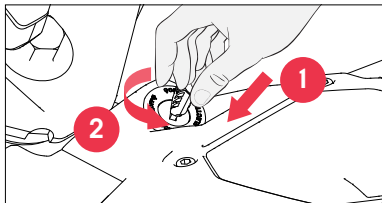


Bring your motorcycle to a complete halt, press the “Motor stop” kill switch to power off the motorcycle, and turn the key anticlockwise to the OFF position as shown. The key should be removed from the motorcycle when not in use for the safety and security of your motorcycle.

NOTE

- It is not recommended to turn the key off while the motorcycle is running.
- Never turn the key off while the motorcycle is moving.

STEERING LOCK



- Turn the handlebar on either side (left or right).
- With the key in the OFF position, push the key down into the lock and rotate anti-clockwise to the LOCK position.
- Remove key.

BATTERY & CHARGING

Battery Pack

The motorcycle comes equipped with a rechargeable battery pack. It operates within a temperature range of 0°C to 55°C, the BMS (Battery Management System) initiates a system shutdown while the motorcycle is stationary, if outside this temperature range.

Battery Life

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

- Avoid prolonged storage of the motorcycle at a high level of charge to avoid battery cell degradation. See ["Storage Guidelines" on page 108](#).

- When the battery is fully charged, please ensure to unplug the DC connector from the motorcycle and PRCD (Portable Residual Current Device)-from the AC power socket.
- You may notice a 1–2% drop in the State of Charge (SoC) after the motorcycle is parked overnight. This happens due to routine data syncing with the mobile app and is normal.

BATTERY & CHARGING

DC Charging

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

Procedure:



1. **Plug In:** Securely connect the charging cable to the motorcycle port with an audible click.



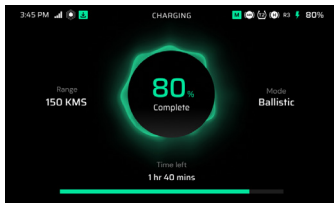
2. **Connect Power:** Plug the PRCD (Portable Residual Current Device) into the wall power outlet.

NOTE

Always use a **16A** socket for charging and ensure the charger is connected through an **16A MCB protection circuit + (2.5 Sqmm cable)**.

3. **Initiate:** Turn the main charger ON.
4. **Confirm:** The instrument cluster indicator  must be blinking to show charging has begun.

BATTERY & CHARGING



5. While charging, pressing any control switch on the handlebar wakes up the instrument cluster, displaying the charging screen.
6. **Disconnect:** Once charging finishes, the system shuts off. Unplug the cable. [Contact support immediately if the logo doesn't light up or the cluster indicator doesn't blink.]

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.
- For safe charging, Cables should not be twisted during charging.

WARNING

If the motorcycle or charger gets submerged in water, **DO NOT USE OR TOUCH THE Motorcycle OR CHARGER** due to the risk of **ELECTRIC SHOCK**.

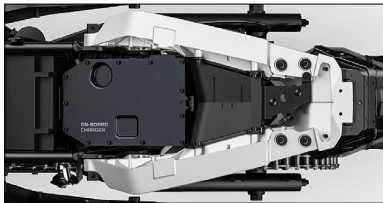
Contact Ultraviolette support immediately.

BATTERY & CHARGING

Onboard Charger

X-47 Crossover is equipped with a 1.6 kW on-board charger, with power-dense air-cooled unit. A charging cable is required to connect to a power socket, the compact cable can be conveniently carried in a small bag or pocket.

For convenience, ensure the cable is securely stored when not in use.



Procedure:



1. **Plug In:** Securely connect the charging cable to the motorcycle port with an audible click.



2. **Connect Power:** Plug the PRCD (Portable Residual Current Device) into the wall power outlet.

BATTERY & CHARGING

3. **Initiate:** Turn the main charger ON.
4. **Confirm:** The instrument cluster indicator  must be blinking to show charging has begun.
5. **Disconnect:** Once charging finishes, the system shuts off. Unplug the cable. (Contact support immediately if the logo doesn't light up or the cluster indicator doesn't blink.)

CAUTION

Charging instruction:

1. Confirm that the charger connector is completely dry before use.
2. Do not remove the seat cover during charging. Avoid touching the charger's hot surface to prevent burns or electric shock.
3. Verify that your home has a proper earth (ground) connection before charging.
4. Periodically test the PRCD (Portable Residual Current Device) to ensure it is functioning correctly.

Charging Cable Instructions

1. Connect the charging cable securely to the bike and ensure it is properly locked before switching on the charger.
2. Never leave the charging cable powered while lying unattended.
3. Do not operate or move the bike while the charging cable is connected.
4. Ensure the cable is not stretched, twisted, or under tension during charging.
5. Always switch off the charger before removing the charging cable

BATTERY & CHARGING

Boost charger (PARALLEL CHARGING)

Boost charger features two ports, enabling 3.2 kW parallel charging. One port delivers 1.6 kW DC directly to the battery pack, while the second port supplies 1.6 kW AC to the On-Board Charger (OBC), which then converts it to DC for the battery. This dual input effectively halves the charging time.



BATTERY & CHARGING

Type C Charging

X-47 is equipped with a built-in USB Type-C charging port to allow you to power or charge compatible electronic devices while riding.

Type-C charging port is positioned below the instrument cluster on the left side.



Maximum Output Power : 15W

Maximum Voltage/Current : 5V/3A

Use certified Type-C cables that support the required power profile.

What is IP67?

CODE	DESCRIPTION
IP	Ingress Protection rating (defines protection against dust and water).
6	Dust-tight: Complete protection against dust and other solid particles.
7	Water immersion protection: Can withstand temporary immersion in water up to 1 meter (3.3 ft) depth for up to 30 minutes under controlled test conditions.

BEFORE STARTING YOUR MOTORCYCLE

Before you turn on your motorcycle, please perform the following pre-ride checks

1. Battery Charge status:

Confirm the display shows a charged battery (State of Charge). Also, check the range indicator to verify you have sufficient charge for your planned trip.

NOTE

If you plan to store the motorcycle for longer periods, activate the deep sleep mode. See ["Settings-Deep Sleep" on page 66.](#)

2. Instrument cluster:

Check the instrument cluster for any errors shown. See ["Tell-Tales" on page 24](#)

3. UV omnisense mirrors:

Adjust mirrors properly to optimize your riding position. See ["Mirror Adjustment" on page 90](#)

4. Throttle:

Ensure the throttle operates smoothly. ["Throttle Control" on page 32](#)

5. Motor Stop/Kill Switch/Ride mode:

Check for proper functionality. ["RH Switch Console" on page 31](#)

6. Headlight & Horn:

Ensure all electrical safety components are functional (lights, turn indicators and horn). See ["LH Switch Console" on page 30](#)

7. Tyres:

Check both tyre wear indicator. Check the COLD tyre pressures. Check for damage and alignment. Maintain correct tyre pressure as specified. See ["Tyre pressure:" on page 97](#)

BEFORE STARTING YOUR MOTORCYCLE

8. Drive chain:

Check the condition and slack. Lubricate if necessary.

9. Front & rear brakes fluid:

Check for correct brake fluid level in reservoirs. See ["Brakes" on page 98](#)

10. Brakes operation:

Test the front and rear brakes individually by applying the brakes separately as you push the motorcycle. You should be able to apply enough pressure to fully lock the corresponding wheel in each test.

11. Steering:

Check for smooth action and for easy manoeuvrability.

12. Emergency Procedures:

In case of a battery failure or electrical malfunction, contact Ultraviolette support.

UV HYPERSENSE RADAR TECHNOLOGY

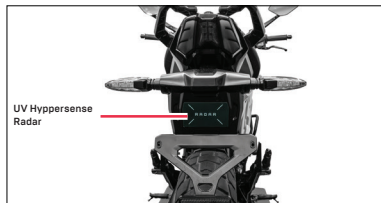
X-47 is equipped with a state-of-the-art rear-facing radar system designed to enhance your awareness and safety on the road. This manual provides a comprehensive overview of its functions, alerts, and operational guidelines.

System Overview

The X-47 radar unit is mounted at the tail-stay of the motorcycle. Its rear-facing orientation is specifically designed to monitor the areas behind and to the sides of your motorcycle, which are often difficult to see.

Key Functions:

- Blind Spot Detection (BSD)
- Lane Change Assist (LCA)
- Rear Collision Warning (RCW)



UV HYPERSENSE RADAR TECHNOLOGY

Features and Alerts

The radar system uses the Omnisense Mirrors and the instrument cluster display to provide clear, intuitive warnings. The mirror indicators use two colors, Amber and Red, with distinct behaviors for each type of alert.

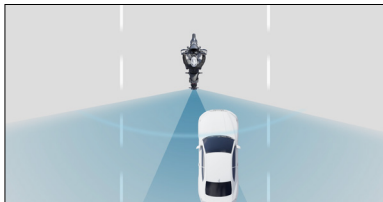
Warning Summary Table

FUNCTION	CONDITION	OMNISENSE MIRROR ALERT	INSTRUMENT CLUSTER ALERT
Blind Spot Detection	Vehicle in blind spot.	Solid amber glow (respective side)	Solid amber glow edge
Lane Change Assist	Vehicle in lane change zone + turn signal is ON.	Flashing amber (respective side)	Flashing amber edge
Rear Collision Warning	Vehicle approaching from rear at high speed.	Solid red glow (both sides)	Solid Red glow edge

UV HYPERSENSE RADAR TECHNOLOGY

Blind Spot Detection (BSD)

This feature alerts you to vehicles present in your blind spot. This function is active at speeds above 16 km/h.



- **Condition:** A vehicle is detected within your blind spot zone.

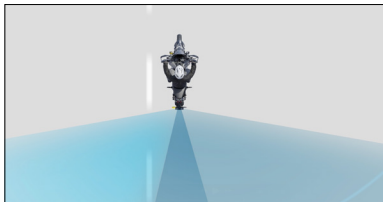


- **Omnisense Mirror Alert:** The indicator on the corresponding side will glow solid amber.
- **Instrument Cluster Alert:** A solid amber will appear on the bottom edge of the instrument cluster on the respective side.

UV HYPERSENSE RADAR TECHNOLOGY

Lane Change Assist (LCA)

LCA provides a more urgent warning if you signal to change lanes while a vehicle is in the adjacent lane's detection zone. **This function is active at speeds above 16 km/h.**



- **Condition:** A vehicle is in the lane change zone and you have activated the turn signal for that side.



- **Omnisense Mirror Alert:** The indicator on the corresponding side will flash amber.
- **Instrument Cluster Alert:** A flashing amber will appear on the bottom edge of the instrument cluster on the respective side.

UV HYPERSENSE RADAR TECHNOLOGY

Rear Collision Warning (RCW)

This critical safety function warns you of a potential rear-end collision from a vehicle approaching too quickly from behind.



- **Condition:** A vehicle is approaching from the rear at a dangerously high speed, creating a significant risk of collision.



- **Omnisense Mirror Alert:** Indicators on both mirrors will glow solid red.
- **Instrument Cluster Alert:** A prominent solid red will appear on the bottom edge of the instrument cluster.

UV HYPERSENSE RADAR TECHNOLOGY



- **Vehicle Alert:** The vehicle's hazard warning lights will activate automatically.

How to Operate the Radar System

You can easily enable or disable the radar functions through the motorcycle's main settings menu. See ["Controls-Radar" on page 75](#)

Blockage Detection

The radar requires a clear line of sight to function correctly. If the sensor is obstructed by mud, debris, or any other object, its performance will be compromised.

NOTE

If a blockage is detected, a pop-up message will appear on the display on the first detection within a drive cycle. A persistent notification icon will then remain on the instrument cluster until the blockage is cleared. All radar warnings will be suspended during this time.

UV HYPERSENSE RADAR TECHNOLOGY

Service and Maintenance

The radar system is precisely calibrated. Any physical impact or misalignment can affect its accuracy.

NOTE

If you notice that the radar warnings are inaccurate or absent, especially after a minor collision or any incident involving the rear of the vehicle, please visit an authorized UV service center immediately for inspection and recalibration.

Safety Precautions: Do's and Don'ts

To ensure the reliability and longevity of your radar system, please adhere to the following guidelines.

DO	DON ' T
Keep the tailstay area clean and free from dirt, mud, snow, and ice.	Remove or intentionally modify the tailstay.
Have the system checked by authorized UV service center if you suspect any damage or misalignment.	Attempt to disconnect or service any radar components yourself.
	Cover or apply stickers, paint, or any other coating to the radar sensor area.
	Place any objects (like bike racks or cargo) that could obstruct the radar's detection area.

UV HYPERSENSE RADAR TECHNOLOGY

Limitations

The radar system is an aid and not a substitute for attentive driving. Its performance may be limited under certain conditions, such as:

- **Minimum Speed:** BSD and LCA functions are only active at speeds above 16 km/h.
- **Weather:** Extremely heavy rain, snow, or fog.
- **Road Conditions:** When driving on very sharp curves or steep hills.
- **Lean angle:** If the vehicle is leaning more than 20 degrees.

Always remain aware of your surroundings and use your mirrors and direct observation to confirm that it is safe to maneuver.

SYSTEM NOTIFICATIONS

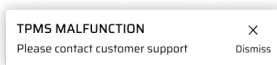
A system notification pops up on the top edge of the screen to notify the rider of any instances that have occurred.

These are of two types:

Critical Alert



Informative Alerts



Notification	Condition	Type
BALLISTIC UNAVAILABLE Modes available: Combat and Glide	Battery SoC $\leq$ 29% OR Battery beyond temperature limits	Critical Alert
COMBAT UNAVAILABLE Mode available: Glide	Battery SoC $\leq$ 19% OR Battery beyond temperature limits	Critical Alert
MOTOR IN DERATION	Motor temperature beyond limits	Critical Alert
MOTOR ARM ERROR Release throttle before Arming	Throttle at non zero position	Critical Alert

SYSTEM NOTIFICATIONS

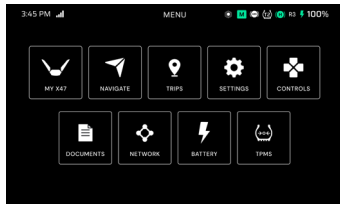
Notification	Condition	Type
BATTERY CRITICALLY LOW Hover mode will initiate at 5% battery	Battery at 6%	Critical Alert
REGEN UNAVAILABLE Regen available below 90% battery	Battery >90% AND user requests for limit change	Informative Alert
REGEN AVAILABLE Use navigation keys to adjust levels	Battery at 90%	Informative Alert
DISENGAGING HILL HOLD IN 5S Apply brakes for your safety	Hill hold 5s timer trigger	Critical Alert
ABS AND TC MALFUNCTION Please contact Ultraviolette support	ABS error and speed >5kmph	Critical Alert
TC MALFUNCTION Please contact Ultraviolette support	TC error (speed >5kmph)	Critical Alert
SIDE STAND DEPLOYED Motor disarmed	Side stand deployed OR Motor Arm request while side stand is deployed	Critical Alert
TYRE PRESSURE ABNORMAL Adjust pressure for ideal performance	Front/Rear Tyre pressure low/above limits (Every key cycle IF true)	Critical Alert

SYSTEM NOTIFICATIONS

Notification	Condition	Type
TYRE PRESSURE CRITICALLY LOW Please exercise caution	Front/Rear Tyre critically low (Every key cycle IF true)	Critical Alert
TPMS MALFUNCTION Please contact Ultraviolette support	TPMS battery low or connection error	Critical Alert
DEEP SLEEP ACTIVATED Deep sleep will take effect on key off	If deep sleep is activated by user from console	Critical Alert
DEEP SLEEP CURRENTLY ACTIVE	If user tries to activate deep sleep in menu	Critical Alert
LOCKDOWN INITIATED	Lockdown mode activated from app	Critical Alert
SWITCHING TO COMBAT At 29% battery	When SoC at 29%	Critical Alert
SWITCHING TO GLIDE At 19% battery	When SoC at 19%	Critical Alert
REGEN UNAVAILABLE	Regen is unavailable due to battery is at 90% SoC.	Informative Alert

CONTROL CENTRE

Menu



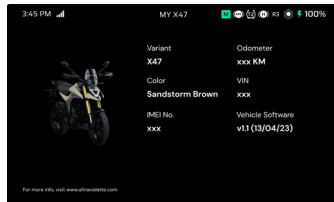
Pressing the **[O]** button opens the main menu, giving you access to a host of features and controls for your X-47 motorcycle. Press the 'O' button on any selected feature to enter its sub-menu.

NOTE

Menu options cannot be accessed while the motorcycle is in motion.

* Images are for indicative purposes only

My X-47

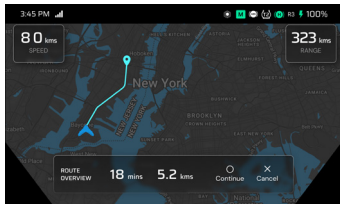


This is your quick reference for essential X-47 details. It provides easy access to vital information like

- Color and variant
- IMEI (International Mobile Equipment Identity)
- VIN (Motorcycle Identification Number).
- Software info

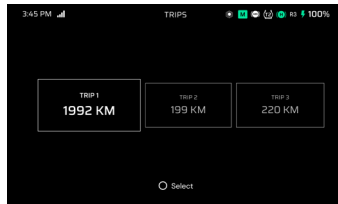
CONTROL CENTRE

Navigate



Easily navigate with the advanced system built into your X-47. Plan your route effortlessly through the UV mobile app, enjoying smooth journeys with real-time updates, accurate directions, and interactive features that enhance your riding experience.

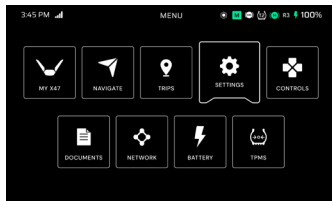
Trips



Easily manage your trips with this intuitive system. You can effortlessly switch between different trip specific distances and reset the trip presets whenever you need to, ensuring you track every journey accurately and stay organized.

CONTROL CENTRE

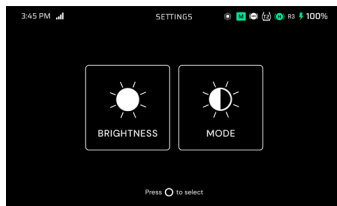
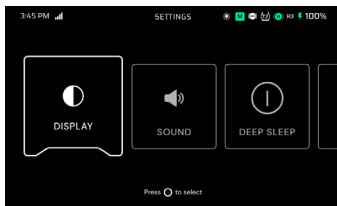
Settings



The settings menu lets you tailor your meter console experience. Adjust the screen for optimal viewing by selecting dark or light display modes, and easily control brightness and sound levels to match your preferences.

CONTROL CENTRE

Settings-Display



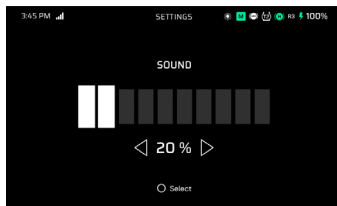
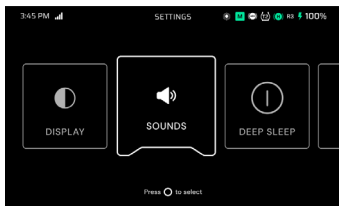
- **Brightness** - Adjust the brightness manually or set it into Auto based external lighting conditions for better visibility of the display.
- **Mode** - Change the mode based on external lighting conditions or set it to Auto.

NOTE

Auto mode uses Ambient Light Sensor to automatically adjust the Time, Brightness, and Mode based on surrounding light levels.

CONTROL CENTRE

Settings-Sound



A beep sound alerts the rider and surroundings, indicating that the motorcycle's turn indicators are turned on, activating the hazard lights or switching to park assist.

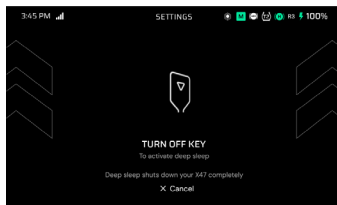
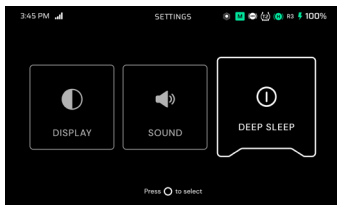
The volume for the sound can be adjusted from 0 to 100% based on the preference.

IMPORTANT

Provides safety feedback.

CONTROL CENTRE

Settings-Deep Sleep



The motorcycle is equipped with a Deep Sleep mode, designed for extended periods of inactivity. In this mode, all non-essential systems are deactivated to minimize power consumption.

- **Duration:** Deep Sleep mode can preserve battery charge for up to 3 months at 100% battery state of charge [SoC].
- **Activation:** Enable Deep Sleep via **Settings > Deep Sleep**.

NOTE

The motorcycle will automatically enter Deep Sleep once the battery state of charge [SoC] drops below 23% and when the motorcycle is parked.

CONTROL CENTRE

Settings-Deep Sleep

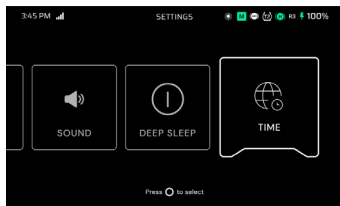
- **Optimal SoC for Activation:** For enhanced battery longevity, activate Deep Sleep when the SoC is between 50% - 60%.
- **Deactivation:** To exit Deep Sleep, simply turn on the key or connect the charger if the motorcycle is unresponsive.

NOTE

Deep Sleep Mode is recommended when the motorcycle will not be used for an extended period. For more details, see ["Storage Guidelines" on page 108](#)

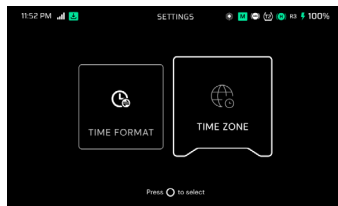
CONTROL CENTRE

Settings-Time



The motorcycle's system clock displays local time according to your time zone, which is set to India by default.

Choose your preferred time format using ◀▶ and press [button icon] to select.

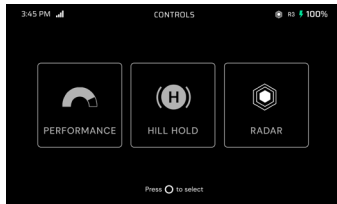
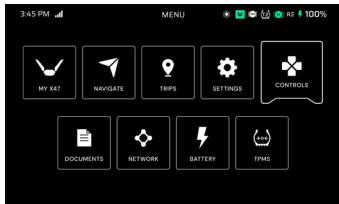


Time Format: You can choose between 12 hour or 24-hour format in the settings menu.

Time Zone: The time zone is set to India by default. To change it, contact Ultraviolette Customer Support.

CONTROL CENTRE

Controls

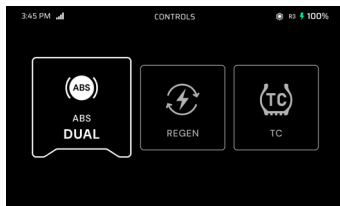


Press ◀▶ to navigate Press O to select
Press X to cancel/ go back

Take charge of your motorcycle's ride controls with the controls menu. Here, you can customize motorcycle settings to align with your preferences and riding style, enhancing your overall experience.

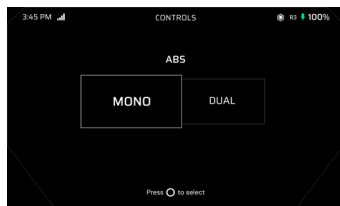
CONTROL CENTRE

Controls-Performance-ABS



Anti-lock Brake System (ABS) helps prevent wheel lock-up and maintains stability during sudden or panic braking. It uses wheel speed sensors and brake inputs to adjust brake pressure, allowing the rider to steer while braking.

ABS activates only above 5 km/h and during wheel lock conditions. You may feel a slight pulsation in the brake pedal or lever when it's active. Always hold the brakes firmly, do not pump them.



The X-47 is equipped with dual-channel ABS, with the added feature of deactivating rear-wheel ABS when not needed.

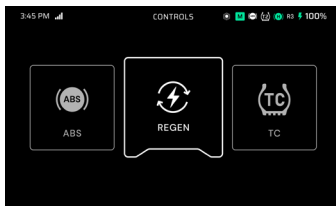
NOTE

Dual-mode selection must be done manually. Performing a key cycle will not reset the ABS setting.

Choose your ABS using ◀▶ and press O to select.

CONTROL CENTRE

Control-Performance-Regen



Regenerative braking is a feature in X-47 that helps to save energy during deceleration and braking. Regen converts a portion of the energy dissipated during braking or deceleration into electrical energy, replenishing the battery pack. By reclaiming energy that would otherwise be lost, regenerative braking helps optimize energy usage. Dynamic regen is available in ten levels and can be changed while riding using the navigation [◀ ▶] buttons on the home screen.

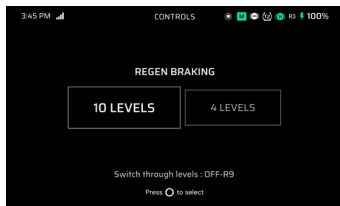
NOTE

Regen is not available if:

- Main battery pack SoC is above 90%
- Main battery pack temp is below 10° C.

CONTROL CENTRE

Regenerative Braking - 10 Levels

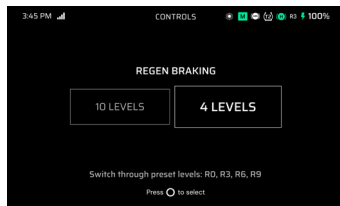


The rider can adjust regenerative braking across 10 levels (0 to 9) to suit their needs.

NOTE

Regen levels appear at the bottom right of the main screen and can be adjusted using the navigation buttons for a smoother ride.

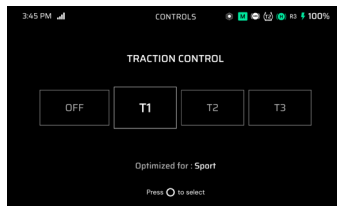
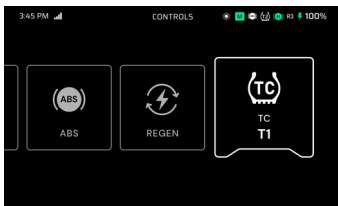
Regenerative Braking - 04 Levels



The 4-level regen lets riders adjust the regen setting in odd increments (0-3-6-9) to suit their needs.

CONTROL CENTRE

Controls-Performance-Traction Control



Traction Control helps prevent rear wheel slip during acceleration by automatically adjusting power delivery. It enhances rider safety and stability, especially on slippery or uneven surfaces. Traction control can be turned off when required.

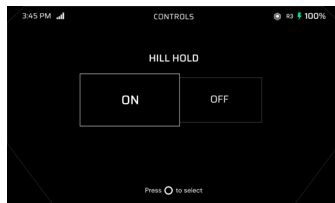
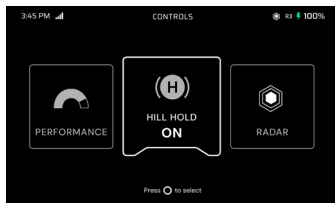
- **T1 – Sport:** Minimal intervention for maximum performance.
- **T2 – Street:** Balanced traction for everyday riding.
- **T3 – Rain:** Maximum intervention for slippery conditions.

CAUTION

Traction Control is a rider aid and does not replace safe riding practices. Always ride according to road and weather conditions.

CONTROL CENTRE

Controls-Hill Hold



Holds your motorcycle stationary without continuous brake application on a inclined or declined surface. It can be Toggled ON/OFF through the menu.

NOTE

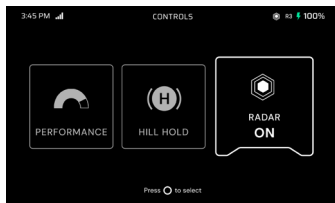
Hill hold disengages when engaging side stand, applying throttle, or tapping the brakes. It also disengages post 5 seconds if there is no inclination detected.

CAUTION

Hill Hold automatically disengages after 5 minutes (300 seconds) of activation. To re-engage, press either the front or rear brake.

CONTROL CENTRE

Controls-Radar



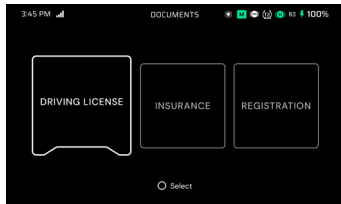
You can easily enable or disable the radar functions through the motorcycle's main settings menu.

- Navigate to Settings on the main display.
- Select the Performance menu.
- Toggle the Radar option ON or OFF.

See ["UV HYPERSENSE RADAR TECHNOLOGY" on page 53](#)

CONTROL CENTRE

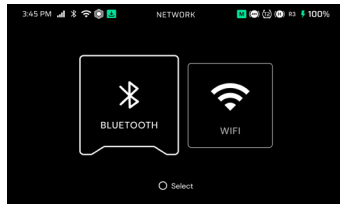
Documents



Documents that are necessary for riding on public roads like your driving licence, vehicle registration certificate & insurance papers can be uploaded through the Ultraviolette App and synced on to your X-47 motorcycle for quick access or in case of an emergency.

See ["Settings > Documents" on page 125](#)

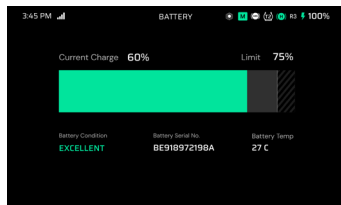
Network-Bluetooth



Bluetooth enables your motorcycle to connect with your UV app enabled smart phone for push notifications and update information. Access through **Menu > Bluetooth**.

CONTROL CENTRE

Battery

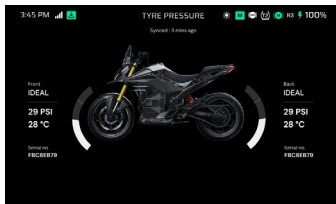


Detailed insights into your battery pack's performance are available here. Monitor key metrics such as battery health, state of charge, charging limits, and temperature. This comprehensive view helps you optimize charging routines, extend battery life, and maintain peak performance throughout your rides.

See ["Battery Pack" on page 41](#)

CONTROL CENTRE

Tyre Pressure Monitoring System



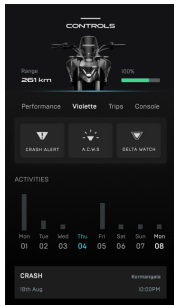
X-47 syncs with TPMS sensors installed in the wheels to monitor tyre pressure and temperature, alerting you to low or non-ideal tyre pressure conditions.

NOTE

- The TPMS operates continuously but not in real-time, with displayed pressure numbers subject to slight variations depending on ambient conditions.
- Always check the tyre pressure before ride, as temperature raises during rides and can affect pressure readings.
- TPMS installation, which replaces existing valves, must be performed only at Ultraviolette service centers by authorized technicians.

UV SMART TECH

Violette AI

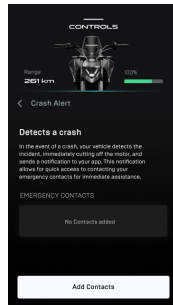


Violette AI offers advanced rider assistance to enhance safety and security. It functions as a smart co-pilot that continuously learns from the rider and real-world data usage.

NOTE

Ultraviolette is not liable for any incidents arising from excessive dependence on Violette AI. Always maintain vigilant riding practices.

Crash Alert



Crash Alert in Violette AI detects collisions and instantly notifies your connected Ultraviolette app. In case of a crash, it disables the motor, activates the horn, and displays your emergency contact for bystanders/riders to provide assistance.

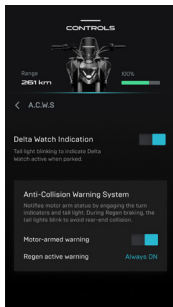
UV SMART TECH

NOTE

It 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 AI, along with its features, is an optional upgrade when buying the motorcycle.**

Anti-Collision Warning System

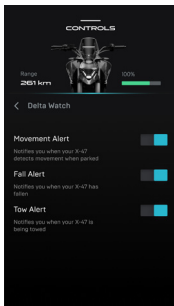


A.C.W.S., part of Violette AI, alerts bystanders and motorists using beacon lights. The tail light & indicators blink rapidly during regen braking, mimic aircraft lights frequencies, and tail light blinks every 30 seconds when parked. It can be toggled ON/OFF using UV App.

NOTE

A.C.W.S. activates only when the regeneration level is 5 or higher.

Delta Watch



The X-47's Violette AI is equipped with Delta Watch, which monitors the motorcycle and notifies your connected Ultraviolette App, flashes the tail/indicator lights on the X-47, and activates the horn in the event of an unauthorized tampering attempt while the motorcycle is parked.

Movement Alert: Activated if a minor movement is detected.

Fall Alert: Triggered if it falls while stationary.

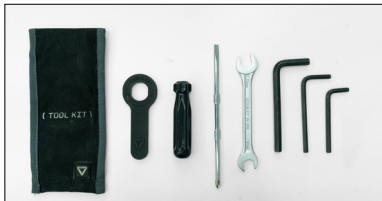
Tow Alert: Notifies you if your X-47 is being towed away without authorization or without the key.

Active Indication: The tail lights will blink to indicate that Delta Watch is activated

NOTE

- 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.
- *Violette AI and its features are operational only provided the X-47, the connected mobile phone and the app are in working/ network accessible conditions. The DELTA WATCH notifications are visible only in the Ultraviolette app.

USER TOOL KIT



X-47 is equipped with a **User Tool Kit** provided beneath the pillion seat. Tool kit contains a set of essential tools designed to assist in carrying out basic maintenance and roadside adjustments.

Usage Guidelines

- Use the supplied tools only for minor maintenance.
- Avoid applying excessive force to prevent damage to fasteners or components.
- For complex repairs, electrical issues, or component replacement, contact Ultraviolette authorized Service Centre.
- Ensure all tools are properly secured in the tool kit after use to prevent noise or damage during riding.

PERIODIC MAINTENANCE SCHEDULE

The maintenance schedule detailed here will help you maintain your X-47 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 updations 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. 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.

PERIODIC MAINTENANCE SCHEDULE

PERIODIC MAINTENANCE SCHEDULE												
C - Clean I - Inspect L - Lubricate T - Tighten R - Replace A - Adjust R* - Replace if required U - Update												
Sl. No.	Service Duration	1st Year			2nd Year		3rd Year		4th Year		5th Year	
	Kilometers	1K	5K	10K	15K	20K	25K	30K	35K	40K	45K	50K
	Service	1st	2nd	3rd	4th	5th	4th	5th	6th	7th	8th	9th
1	Ultraviolette Standard Scope of Service	*	*	*	*	*	*	*	*	*	*	*
2	Brake fluid (F & R) *1 year or 20000 Km 1st replacement. Then in 20,000 Interval					R				R		
3	Chain	I,L,T	I,L,T	I,L,T	I,L,T	I,L,T	I,L,T	I,L,T	I,L,T	I,L,T	I,L,T	I,L,T
4	Chain & Sprockets			I,R*		I,R*		I,R*		I,R*		I,R*
5	Front fork oil replacement.					R						

PERIODIC MAINTENANCE SCHEDULE

PERIODIC MAINTENANCE SCHEDULE												
C - Clean I - Inspect L - Lubricate T - Tighten R - Replace A - Adjust R* - Replace if required U - Update												
Sl. No.	Service Duration	1st Year			2nd Year		3rd Year		4th Year		5th Year	
	Kilometers	1K	5K	10K	15K	20K	25K	30K	35K	40K	45K	50K
	Service	1st	2nd	3rd	4th	5th	4th	5th	6th	7th	8th	9th
6	Transmission oil replacement	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
8	Sprocket cushioning rubber dampers replacement					R*				R*		
9	Steering bearing lubrication				L			L			L	
10	Swing arm needle bearing inspection and lubrication			I,L		I,L		I,L		I,L		I,L

PERIODIC MAINTENANCE SCHEDULE

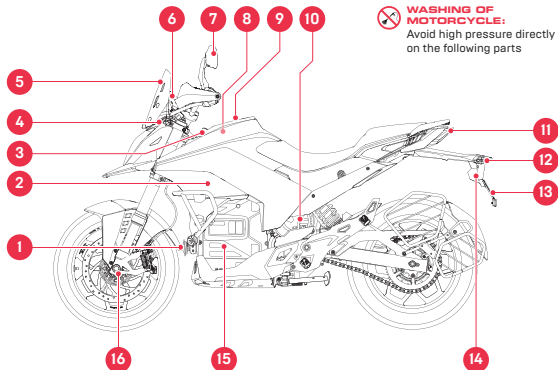
SL.NO.	UV STANDARD SCOPE OF SERVICE
1	Aux battery voltage, charging and leakage checking, Terminal grease application
2	Traction battery health check
3	Charger/Charging operation/DCP Operation
4	Brake disc thickness measurement and pad check (Replace if required)
5	Brake fluid level check
6	Brake hose 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

SL.NO.	UV STANDARD SCOPE OF SERVICE
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	Auxiliaries 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

PERIODIC MAINTENANCE SCHEDULE

Cleaning and Washing

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



SL . NO	DESCRIPTION
1	Horn
2	Painted parts [All]
3	Main switch
4	Front turn indicator [LH & RH]
5	Front visor
6	Instrument Cluster
7	Omnisense Mirrors [LH & RH]
8	Speaker

SL . NO	DESCRIPTION
9	Charging lid
10	Motor
11	Tail light
12	Rear turn indicator [LH & RH]
13	License plate
14	Radar
15	Battery pack
16	Bearings

PERIODIC MAINTENANCE SCHEDULE

Cleaning the motorcycle:

CAUTION

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

WARNING

Avoid high-pressure water spray, as it can damage parts of the motorcycle. Recommended Water Pressure: Below **90 Bar**.

Washing the motorcycle:

Remove loose dirt from the motorcycle by using the water. Rub the soiled area of the motorcycle gently, rinsing it frequently with fresh water.

- Clean the motorcycle 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 motorcycle. They will damage the plastic and painted surfaces.

PERIODIC MAINTENANCE SCHEDULE

NOTE

After cleaning, rinse the motorcycle thoroughly with clean water. Alloy parts might get corroded due to strong detergent residue.

- Dry the motorcycle with pressurised air.
- Right after washing the motorcycle, braking efficiency may be temporarily reduced.
- Testing of brakes is required before riding the motorcycle. 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.

User Toolkit:



SL . NO .	TOOL
1	Pre-Load Adjuster
2	Philips/ Flat head Screwdriver
3	8mm -10mm Open End Spanner
4	8mm Allen Key
5	5mm Allen Key
6	4mm Allen Key

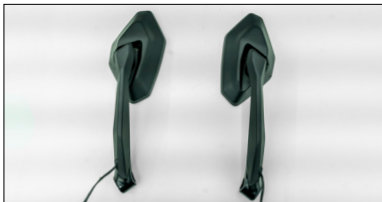
PERIODIC MAINTENANCE SCHEDULE

Mirror Adjustment

Adjust mirrors so you can see a small portion of your shoulders in each mirror. This will help you establish the relative distance of motorcycles to the rear of your motorcycle.

WARNING

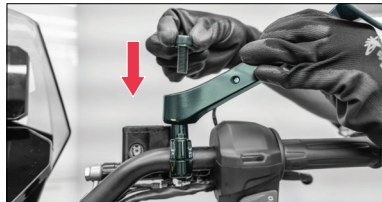
Objects in mirrors are closer than they appear. Failure to judge correct distances could result in serious injury or death.



1. Identify the left and right mirrors.



2. Place the spring washer and position the Right-hand (RH) mirror on to the mirror mount.



PERIODIC MAINTENANCE SCHEDULE

3. Insert RH mirror bolt into the mirror mount and hand-tighten it counter-clockwise direction. (do not fully tighten yet).



4. Tighten the RH mirror bolts using the 8mm Allen key.



5. Sit on the motorcycle and adjust the RH mirror for a clear rear view with minimal arm obstruction.



6. Hold the mirror securely and tighten the mirror bolt firmly.

NOTE

Repeat the same procedure to install the left-hand (LH) mirror.

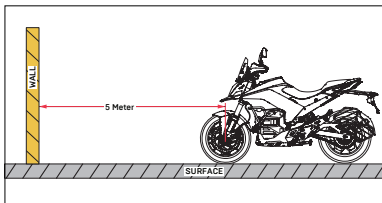
PERIODIC MAINTENANCE SCHEDULE

Headlight Beam Adjustment:

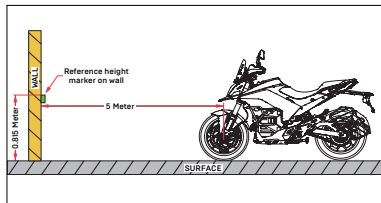
Adjusting the headlight on a motorcycle is important for optimal visibility and safety. Here's a general guide on how to adjust the headlight:

Tools Required:

- Phillips Head Screwdriver
 - Measuring Tape
1. Ensure the tyres are properly inflated to the recommended pressure.

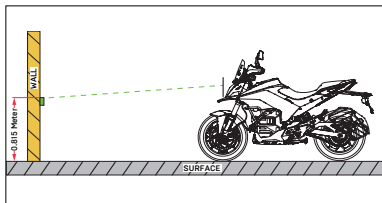


2. Park your motorcycle on a level surface 5 meters away from a perpendicular wall as shown. Make sure both the front and the rear wheels are touching the ground during this operation.

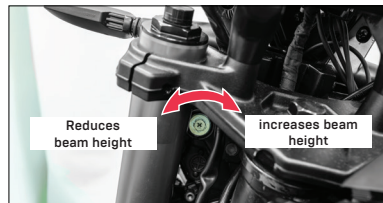


3. Using a marker or a tape, mark the wall at a height of 0.815 Meter as shown.
4. With the rider seated on the motorcycle, arm the motorcycle and switch the headlight to low beam.

PERIODIC MAINTENANCE SCHEDULE



5. The top-most brightest line of the headlight low beam should be on the line marked on the wall. If it is not coinciding, the headlight beam height needs adjustment.



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

PERIODIC MAINTENANCE SCHEDULE

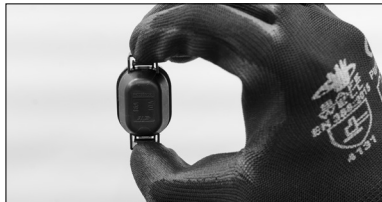
Fuse Replacement

- 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.

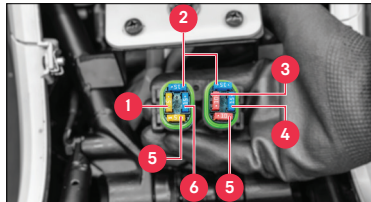
Procedure of checking fuse



1. Insert the key and turn clockwise to unlock, lift and remove the pillion seat.



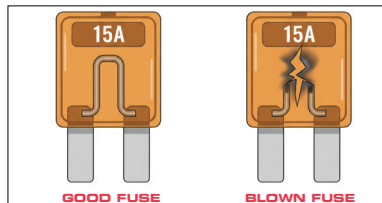
2. Press the lock clips, lift and open the fuse cover as shown.



3. The fuses and their applications

PERIODIC MAINTENANCE SCHEDULE

1. 5A VCU
 2. Spare
 3. 10A ABS sub
 4. 15A ABS main
 5. Spare
 6. 15A DC-DC output
4. Fuse gets blown due to excessive current flow through it. Below could be a few reasons for it.
- Wrongly rated fuse assembled (5 Ampere fuse installed in a 15 Ampere fuse slot)
 - Short circuit due to faulty wiring
 - Over-loaded electrical system
 - 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 a multimeter to check fuse continuity. It could damage electrical components and may show false reading sometimes.

PERIODIC MAINTENANCE SCHEDULE

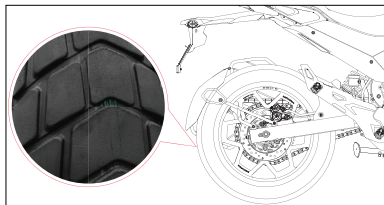
7. Replace a blown fuse with a spare fuse of same Amperage.

NOTE

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

8. If the fuse blows out repeatedly, contact Ultraviolette service.

Tyre Tread:

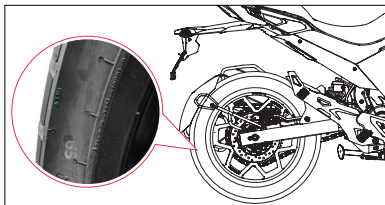


Tyre wear indicator is a built-in marker on the tread showing the minimum safe depth. When the tread wears down to this level, the tyre has reached its limit and must be replaced.

Maintaining proper tread depth ensures optimal grip, handling, and safety, especially in wet or slippery conditions.

PERIODIC MAINTENANCE SCHEDULE

Tyre Wear Indicator (TWI)



1. For ease in inspection of the tyres, tyre wear indicators (TWI) are given at several locations around the tyre.
2. When the tyre wear indicator contacts the road indicating the tyre is worn to the wear limit, replace the tyres immediately.

Tyre pressure:

Check and adjust the tyre pressure.

NOTE

The tyre pressure should be checked and adjust when the tyres are "COLD".

- Front tyre: 32 Psi
- Rear tyre: 34 Psi

PERIODIC MAINTENANCE SCHEDULE

Brakes

WARNING

Never ride your motorcycle if the brake fluid level in either reservoir is below the LOWER level mark. You must add fluid to the reservoir before riding.

If you notice any of the following, contact Ultraviolette service centre immediately:

- If the brake lever or pedal requires excessive movement before the brakes engage, have the braking system inspected immediately.
- The feel of the lever or pedal is spongy.
- You observe any significant loss of brake fluid.

NOTE

Riding with these symptoms risks extended stopping distances or complete brake failure.

Fluid Usage Guidelines

- Only use new brake fluid taken from an airtight container.
- Do not use fluid that has been exposed to the air (from an open container) or fluid that was previously bled from the system. This fluid absorbs moisture, which degrades performance.

Handling Spills

Brake fluid damages plastic and painted surfaces. If you spill any:

- Immediately soak up the spill with an absorbent cloth.
- Wash the affected area thoroughly with a mixture of automotive soap and water.

Brake Fluid Replacement

Brake fluid must be replaced every 12 months, regardless of distance the motorcycle has been ridden. This service is recommended to be performed by authorized Ultraviolette service centre/dealer.

PERIODIC MAINTENANCE SCHEDULE

Front Brake Fluid Reservoir



The front brake fluid reservoir is located near the right handlebar. Check the fluid level through the reservoir window. The fluid level should be between the **MIN** and **MAX** marks.

NOTE

The motorcycle should be in an upright position prior to checking fluid level.

- Clean any dirt or debris around the reservoir cap before opening it. Place a shop towel beneath the reservoir to absorb any spilled fluid.

- Carefully unscrew and remove the reservoir cap.
- Refill with new DOT 4 brake fluid.

NOTE

- Do not overfill. Fill only up to the **MAX** level mark. Overfilling may result in fluid leakage during operation.
- Check the cap seal to ensure it is free from wear or damage, then reinstall the cap securely.

PERIODIC MAINTENANCE SCHEDULE

Rear Brake Fluid Reservoir



Visually inspect the front brake fluid level by looking through the reservoir. Ensure the fluid is positioned between the visible **MAX** and **MIN** marks on the reservoir housing.

NOTE

The motorcycle should be in an upright position prior to checking fluid level.

- Clean any dirt or debris around the reservoir cap before opening it. Place a shop towel beneath the reservoir to absorb any spilled fluid.
- Carefully unscrew and remove the reservoir cap.
- Refill with new DOT 4 brake fluid.

NOTE

- Do not overfill. Fill only up to the **MAX** level mark. Overfilling may result in fluid leakage during operation.
- Check the cap seal to ensure it is free from wear or damage, then reinstall the cap securely.

Brake Fluid Specification

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

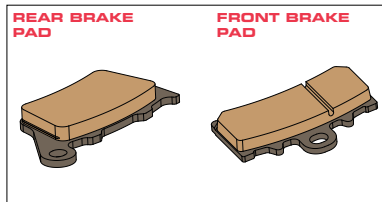
PERIODIC MAINTENANCE SCHEDULE

Brake Pad Inspection



Determine the condition and remaining brake pad material thickness by inspecting the pads through the sides of the brake caliper.

Replace the brake pads if either pad's thickness is less than 0.04 in (1 mm). If the brake pads are worn they should be replaced immediately before riding your motorcycle.



Brake Disc Inspection

Regularly inspect the thickness of the brake discs. If the disc thickness is below the specified minimum limit, replace immediately.

DISC	MEASUREMENT
Front	0.18 in (4.5 mm)
Rear	0.16 in (4.0 mm)

PERIODIC MAINTENANCE SCHEDULE

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 motorcycle is rider-laden and when the unladen motorcycle front wheel is lifted.

NOTE

Recommended total sag: 35mm

Rear suspension sag:

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

NOTE

Recommended total sag: 15mm

Front USD Fork

Preload Adjustment

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



Adjustment

1. Install the front fork preload adjustment tool onto the front fork.
2. Rotate the adjuster slowly as per the requirement.
Clockwise: [H] Stiffer **Anti-clockwise:** [L] Softer

PERIODIC MAINTENANCE SCHEDULE

CAUTION

DO NOT rotate the USD fork preload adjuster beyond limits. It can cause damage to the tool or component.

NOTE

- Avoid sudden jerk movements while making adjustment. Doing so might damage the edges of adjuster.
- Ensure both right and left front suspension preload adjuster is equal to avoid non-uniform wear and tear of the suspension/tyres which can also cause discomfort in riding.
- After adjustment, check for any damage.

Rear Shock Absorber

Preload Adjustment

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 Ultraviolette service center.

WARNING

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

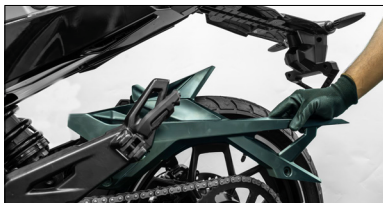
NOTE

Recommended rear shock preload adjustments are formulated for different rider weights based on precise measurements of preload sag.

PERIODIC MAINTENANCE SCHEDULE

Adjustment

Remove the swing arm cover by loosening the fasteners on either side.



Adjustment can be made by using the  **Rear Shock Absorber Spring Tension Adjusting Tool**

Use a set of this tool (2 nos) to adjust the rear shock absorber tension.



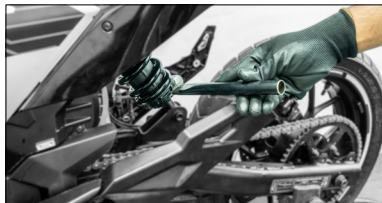
PERIODIC MAINTENANCE SCHEDULE

Hold the adjuster and loosen the locknut.



NOTE

The lower slotted nut [1] is a locknut and the upper slotted nut [2] is an adjuster nut.



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

PERIODIC MAINTENANCE SCHEDULE

Rear Shock Adjustment Guide

WEIGHT	PRELOAD ADJUSTMENT
65-85 Kg	5mm [Factory setting]
85-110 Kg	Factory setting + 5mm [4 rotations]
Above 110 Kg	Maximum Preload

Chain Cleaning and Lubrication



WARNING

Never clean or lubricate the drive chain while the motorcycle is running.

1. If the drive chain becomes extremely dirty, it should be lubricated properly.
2. Elevate the rear wheel by using a rear paddock stand.
3. Apply the recommended chain cleaner thoroughly on the drive chain while rotating the rear wheel manually.

PERIODIC MAINTENANCE SCHEDULE

4. Wait for approximately 10 minutes and let all the dirt come out of the chain.
5. Apply the recommended chain lubricant thoroughly on the drive chain while rotating the rear wheel by hand only.
6. Wait for approximately 10 minutes and let the chain soak the lubricant.

NOTE

Ensure that the cleaner & lubricant used is the one recommended for use on an X-ring chain, otherwise X-ring may deteriorate, fail, and lose their sealing properties.

7. Lubrication and adjustment: At every 500 km or sooner if the chain appears dry during long term parking.

CAUTION

- High pressure washers, certain solvents and steam cleaning can damage the drive chain X-rings.

- To prevent the possibility of your finger being trapped between the chain and sprocket while lubricating and cleaning hold the rear wheel with one hand.
- The drive chain is fitted with X-rings between the link plates. These X-rings retain grease inside the chain to improve its service life.
- However, special precautions must be taken when adjusting, lubricating, washing, and replacing the chain.
- Regular adjustment and lubrication as per the maintenance schedule would ensure high performance and longer life.

PERIODIC MAINTENANCE SCHEDULE

Transportation Guidelines

1. Secure the motorcycle properly to avoid any physical damage.
2. Keep software and firmware up to date via the Ultraviolette App.
3. Clean and lubricate the drive chain before transport.
4. Remove the 5A and 15A in-line fuses to disconnect the motorcycle's electrical system and prevent accidental power activation during transportation.
5. Ensure the motorcycle is not strapped on the side stand as it can cause damage to the frame and side stand.

Storage Guidelines

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

1. Store indoors in a cool, dry location away from direct sunlight.

2. Switch on the motorcycle for a minimum of 30 minutes every 10 days to charge the auxiliary battery.
3. Activate Deep Sleep Mode if the motorcycle will not be used for more than 10 days. See [“Settings-Deep Sleep” on page 66](#)
4. Maintain a minimum 50%-60% State of Charge (SoC) if storing for more than 30 days.
5. Inflate tyres to the correct pressure and move the motorcycle periodically to prevent flat spots.

NOTE

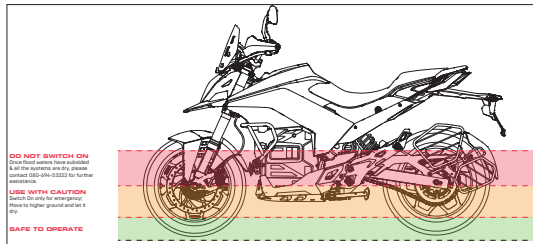
Not following these storage instructions may affect motorcycle's performance and could void your warranty.

CAUTION

DO NOT leave the charger plugged in to the motorcycle during long term parking as it can affect charger and battery pack health.

PERIODIC MAINTENANCE SCHEDULE

Precaution during flooding



X-47 systems are **IP67**-rated. However, prolonged submersion especially in saltwater can increase the risk of system degradation, which may lead to malfunction or failure. If the motorcycle has been submerged in water, allow sufficient time for the vehicle to dry completely (approximately 24 hours or more) before attempting to operate it.

IMPORTANT

- Do not attempt to **MOVE** or **CHARGE** a motorcycle that has been submerged.
- Reach out to UV Customer Care at 080-694-53322

Emergencies

In the event of an accident, please inspect your motorcycle for visual and structural damage to all components and visible wiring connections. If you find any damage visually or while handling/driving the motorcycle, avoid riding to prevent further risk to the motorcycle and contact Ultraviolette support.

Troubleshooting

Refer the table for basic troubleshooting. If any issue occurs on the motorcycle, please contact Ultraviolette Support.

It is advised not to attempt any repair or service on the motorcycle. Contact Ultraviolette Authorised service center.

PERIODIC MAINTENANCE SCHEDULE

SL.NO	DESCRIPTION	PROBABLE CAUSES	TROUBLESHOOTING
1	Motorcycle not Turning ON	1. Fuse Failure 2. Auxiliary battery discharged	1. Check the 5 Amps fuse below the seat if blown out replace with the spare fuse given. See "Fuse Replacement" on page 94 2. If the motorcycle 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.) 3. If the voltage is below 10V aux battery might need to be replaced. 4. If the voltage registers below 12.6V but remains above 10.5V - 11V, you can utilize the motorcycle charger by simply plugging it in, allowing it to charge for 1-2 hours, and then attempting to start the motorcycle. 5. If the motorcycle doesn't start even after charging, please contact Ultraviolette support for further assistance.
2	Motorcycle not Arming	1. Throttle applied while arming the motorcycle 2. Brake switch failure	1. Release the throttle and try arming the motorcycle. 2. Check if the brake light is glowing, alternatively with both brakes. 3. If the motorcycle doesn't start even after charging, please contact Ultraviolette support for further assistance.
3	Motor Deration See Motor Health Indicator	Motor temperature will be more than 120 Deg.	1. If rode for long time in ballistic mode at motorcycle's peak limit it will need some time to cool down .Park the motorcycle aside for 15-20 mins. 2. If it still occurs contact Ultraviolette support for inspection.

PERIODIC MAINTENANCE SCHEDULE

SL.NO	DESCRIPTION	PROBABLE CAUSES	TROUBLESHOOTING
4	High Temperature Warning on display See "Vector" on page 27	Battery temp. rising above permissible limit	1. Contact Ultraviolette support.
5	Motorcycle not charging	1. Charger not plugged in the charging socket correctly. 2. Loose connection in power supply 3. Loose connection in PRCD plug	1. Check if the Charger Plug is locked on the charging socket. 2. Check the voltage supply of the plug point/Check with different power supply. 3. Refer Charging guidelines for further reference. 4. If the issue persist contact Ultraviolette support for check-up.
6	Chain Noise	1. Chain Loose 2. Chain dry	1. Adjust the chain slack (40 mm) See 2. Clean the chain and lube every 500kms or 15 days.
7	Brake Noise	1. Brake pad worn out. 2. Dust between brake pads	1. Inspect the brake pads visually.(If brake pads worn out get it replaced) 2. Clean the calliper by pressure wash.

PERIODIC MAINTENANCE SCHEDULE

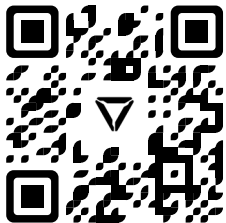
SL.NO	DESCRIPTION	PROBABLE CAUSES	TROUBLESHOOTING
8	Rear view mirror low visibility	Rear view mirror not adjusted properly	If the images in your rear-view mirror appear distorted or unclear, you may want to adjust the mirror settings for better visibility and clarity. This can be done with the help of the tool kit provided. See. “Mirror Adjustment” on page 90
9	Visibility of headlight	1. Headlight height low or high. 2. Low/high tyre pressure.	1. Adjust the tyre pressure for 32-34 PSI for front and rear respectively. 2. Adjust the headlight as per the requirement
10	Handlebar pulling toward one side	1. Low tyre pressure. 2. Uneven preload fork setting.	1. Check and adjust the tyre pressure for 32-34 PSI for front and rear respectively. 2. Set equal preload on both the forks. See “Suspension” on page 102

MOBILE APP

Mobile Application Download

To enhance your riding experience, Ultraviolette offers a dedicated Mobile Application that allows you to connect with your motorcycle, access ride data, receive updates, and manage various features seamlessly.

How to Download the Ultraviolette App



- Scan the QR code provided using your smartphone camera or any QR scanner app.

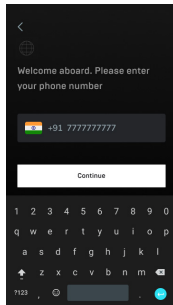
- After scanning, a link will appear on your screen. Tap on the link to open the app download page.
- Choose your mobile platform:
 - **Android users:** Redirects to Google Play Store
 - **iOS users:** Redirects to Apple App Store
- Tap Install to download the app and wait for the installation to complete.
- Once installed, open the Ultraviolette App.

MOBILE APP

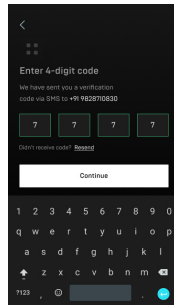
Setting Up



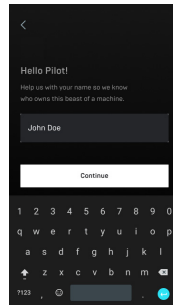
1. Get Started.



2. Setup using your registered Phone No.

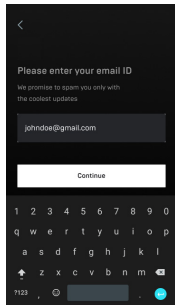


3. Enter OTP.

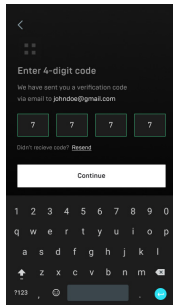


4. Enter Your Name.

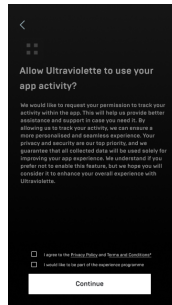
MOBILE APP



5. Enter your Email ID



6. Enter the OTP sent to your email.



7. Review & Accept the Terms.



8. Swipe Up to Complete.

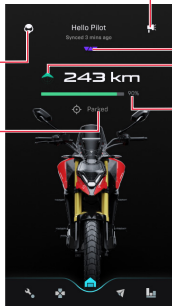
MOBILE APP

Home Screen

Assist Section
(For user manual, RSA, contact us, feedback sections)

Settings Section
(For the profile and motorcycle info section)

Motorcycle Status
Parked/in-flight



1. Home.

Violette Ride Mode

Battery SoC & Range



2. Controls.



3. Diagnostics

MOBILE APP



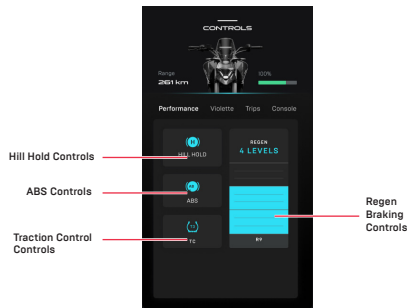
4. Navigation



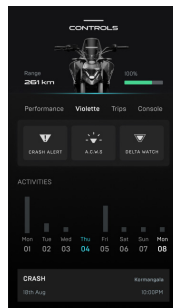
5. Statistics.

MOBILE APP

Controls Section

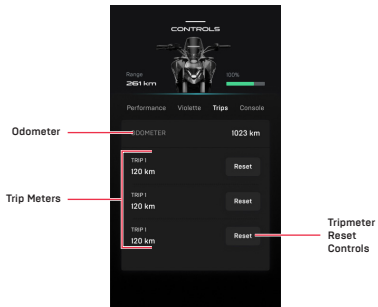


1. Performance.

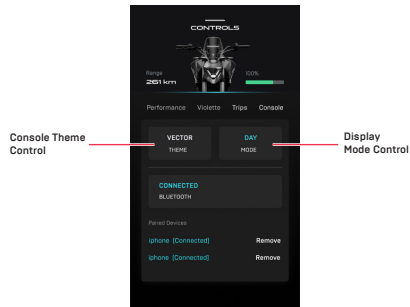


2. Violette

MOBILE APP



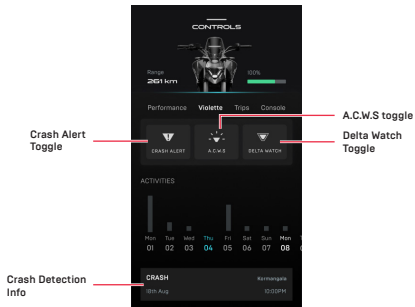
3. Trips



4. Console.

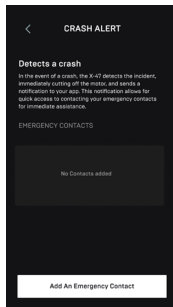
MOBILE APP

Controls > **Violette**



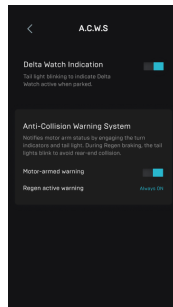
Violette Home Page

Violette > **Crash Alert**



1. Emergency contact in crash detection.

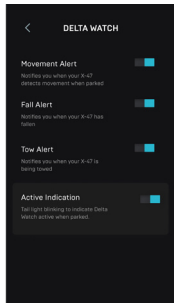
Violette > **Beacon (A.C.W.S)**



2. A.C.W.S Toggles.

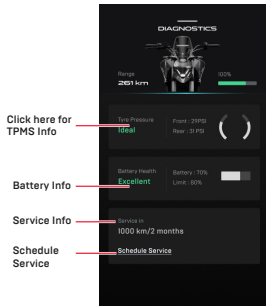
MOBILE APP

Violette > Delta Watch

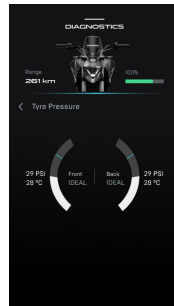


3. Delta Watch Toggles.

Diagnostics Section



1. Diagnostics dashboard.

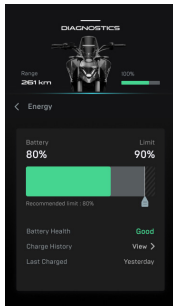


2. TPMS Info.

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

MOBILE APP

Charging Limits

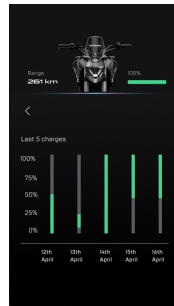


3. Energy.

Adjust the charging limit (80%, 90%, 100%) via **Controls > Energy** section in the Ultraviolette App.

NOTE

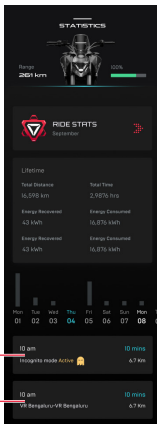
Ultraviolette recommends setting a 90% charging limit to ensure that regenerative braking remains operational.



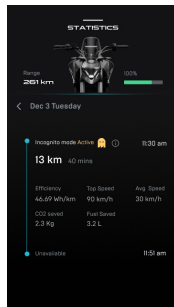
4. Charge history.

MOBILE APP

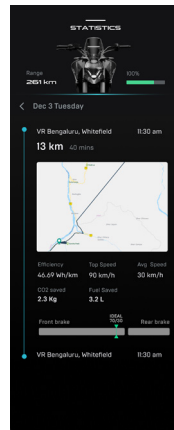
Statistics Section



1. Statistics Home Screen.



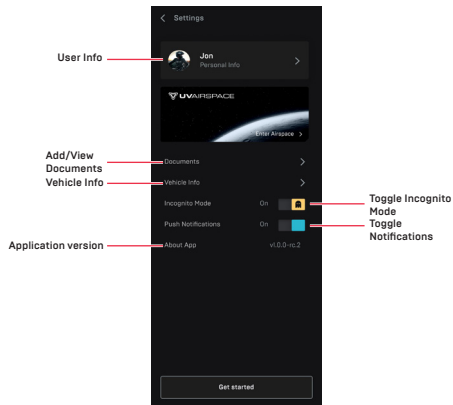
2. Incognito Ride Details.



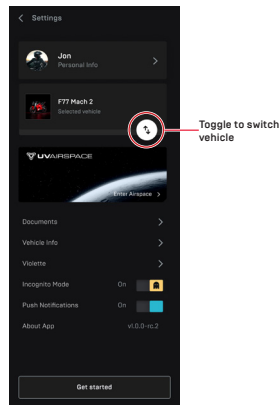
3. Previous Ride Details.

MOBILE APP

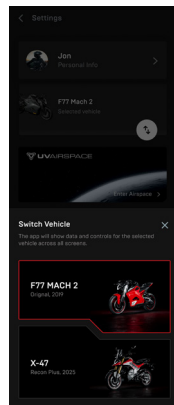
Settings Section



Single Motorcycle

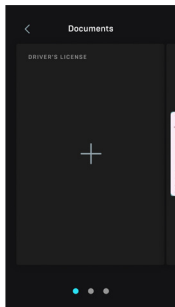


Multiple Motorcycle

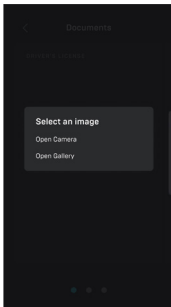


MOBILE APP

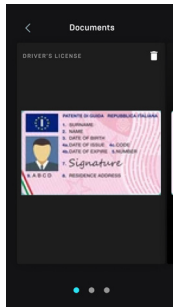
Settings > Documents



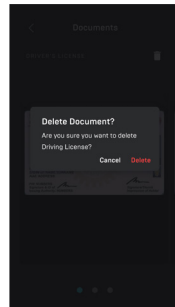
1. Choose document to upload, tap '+'.
1



2. Take picture or upload from gallery.
2



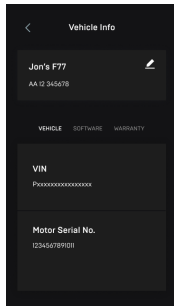
3. Swipe to view or delete document.
3



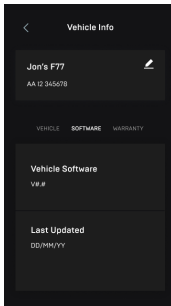
4. Confirm to delete.
4

MOBILE APP

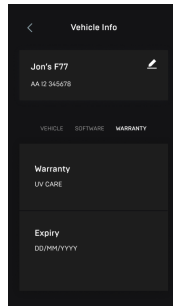
Settings > Vehicle Info



1. Vehicle Identification.



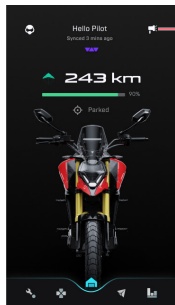
2. Vehicle Software Info.



3. Vehicle Warranty Info.

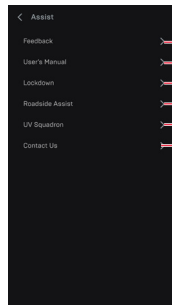
MOBILE APP

Assist Section



Home Screen

Assist Section
(For owner's manual,
RSA, contact us, feed-
back sections)

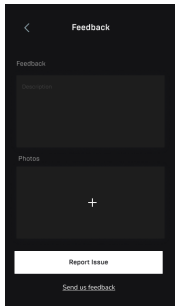


Assist Side Menu

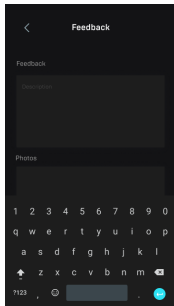
User Feedback
Owner's Manual
Lockdown Mode
Contact
Roadside Assistance
UV Squadron
Contact Us

MOBILE APP

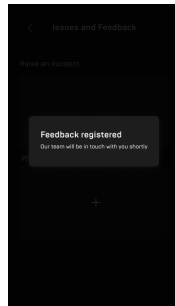
Assist > Feedback



1. Report issue.



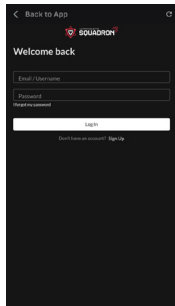
2. Enter feedback.



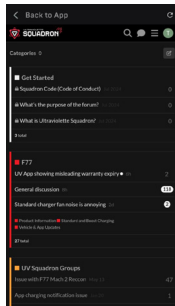
3. Feedback registered.

MOBILE APP

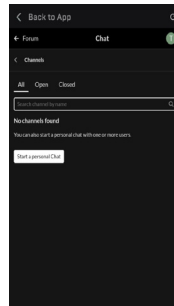
Assist > UV Squadron



1. Sign-up



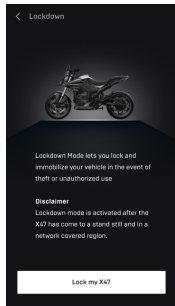
2. Explore and select chat icon



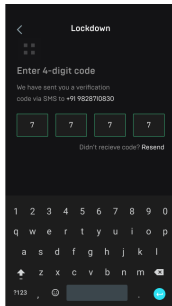
3. Chat with your squadron

MOBILE APP

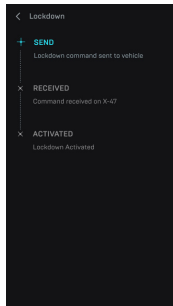
Assist > Lockdown



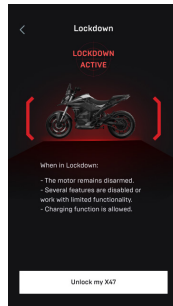
1. Initiate Lockdown.



2. Enter 4-digit code to verify.



3. Lockdown activated.



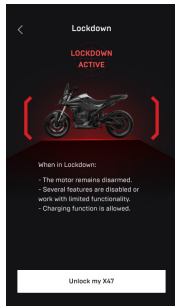
4. X-47 Lockdown complete.

NOTE

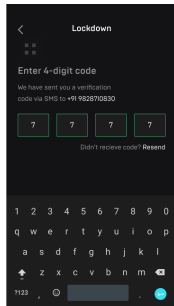
Lockdown mode is activated after the X-47 has come to a stand still and in a network covered region. Immobilizes your X-47 in case of theft or unauthorized use.

MOBILE APP

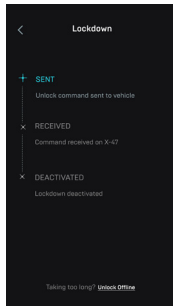
Assist > Lockdown



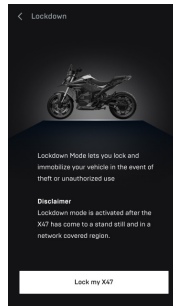
1. Initiate Unlock.



2. Enter 4- digit code to verify.



3. Unlock activated.



4. X-47 Unlock complete.

UV SQUADRON

UV Squadron

UV Squadron is an exclusive community designed for X-47 owners. By becoming a member, you gain access to a dedicated platform where you can connect with other riders, share knowledge and experiences, and stay updated on product announcements, technical insights, and feature releases. The UV Squadron encourages collaboration, enables feedback, and keeps you closely connected with the Ultraviolette ecosystem.

See "Assist > [UV Squadron](#)" on page 129

Why Join UV Squadron?

- **Connect with fellow enthusiasts:** Engage with other X-47 owners, exchange insights, and learn from real-world experiences.
- **Stay informed:** Receive timely updates on new features, product improvements, and upcoming events.
- **Contribute to innovation:** Share your feedback and play an active role in shaping the future development of Ultraviolette products and the UV app.

WARRANTY POLICY*

The warranty applies to all the Motorcycles manufactured by Ultraviolette Automotive Pvt Ltd. It is provided at no cost during the warranty period. The Warranty Period shall commence from the date of invoice of the Motorcycle to the Owner/User, subject to the registration of the Motorcycle by the Owner/User with the Dealer within a period of thirty (30) days from the date of the invoice.

Ultraviolette warrants that motorcycles are free from defects in material and workmanship during the warranty coverage period, provided that the motorcycles are stored, used and maintained in accordance with the OWNERS MANUAL.

The warranty covers the following components

- The SRB10 Battery Pack, Motor and Controller are covered under warranty for 5 year/ 100,000 Kms, earlier of either.
- The lighting system, Meter Console, Motorcycle Control Unit, Wiring Harness, Charger are covered under warranty for 3 years/ 30,000 Kms earlier of either.
- The auxiliary battery and tyres installed on the Motorcycle are warranted separately by their respective manufacturers.

WARRANTY POLICY*

Exclusions from Warranty

The Warranty shall not apply to incidental and consequential defects or damage resulting from

- Misuse of the Motorcycle including usage beyond its specified capacity or recommended use in the owner's manual.
- Use of the Motorcycle in other than the normal and customary manner in non-compliance with the owner's manual.
- Use of improper or insufficient fuel, fluids, or lubricants.
- Damage caused due to accident or neglect or theft or fire.
- Improper testing, operation, maintenance, service, installation, collision or storage.
- Exposure to elements or chemicals outside the ordinary course.
- Events caused by natural disasters or Acts of God, such as floods, storms, cyclones, earthquakes, landslides, lightning strikes, or similar occurrences.
- Ordinary wear and tear of the Motorcycle, its components, or parts.
- Non-replacement or adjustment of service items like suspension, chain, brake components, wheel alignment, fluids, lubrication etc. as set out in the Maintenance section of the owner's manual.
- Slight irregularities not recognized as affecting the quality or function of the Motorcycle, such as slight noise or vibration.

WARRANTY POLICY*

- Any issues faced due to pollutants, bird droppings, tree sap.
- Gaps between panels that are within the limits set by the Company; and/or external aesthetic defects such as fading, denting or peeling of paint, chrome, and trim.

In the event of there being a defect in the Motorcycle which is covered by this Warranty, Ultraviolette's sole obligation and the Dealer's sole remedy shall be, at the Ultraviolette's discretion, to either repair or replace the defective component subject to the limitations and exclusions set out in Warranty Policy. The warranty coverage shall extend to the replaced or the repaired part for the remainder of the original Warranty Period.

Ultraviolette and Ultraviolette's Dealers shall not be liable for any consequential losses or damage arising from the use or inability to use the Motorcycles. The Warranty shall not cover the parts and labor involved in the periodic maintenance/replacement of parts due to wear and tear, use or deterioration. In case of any defect in materials and workmanship, Ultraviolette's and Ultraviolette Dealer's obligation under this Policy, shall cease upon the expiration of the Warranty Period.

Ultraviolette and Ultraviolette Dealers will not be held liable for any personal injuries or damage of any type to the rider and any other person due to the failure of any part of the motorcycle. Ultraviolette and Ultraviolette Dealer's will not be liable for any incident of fire to the motorcycle due to tampering with the motorcycle wiring, faulty house wiring, charging in an unventilated area, or charging with inflammable objects in the vicinity.

WARRANTY POLICY*

The Warranty shall be void if

- If the recommended Periodic Maintenance Schedule is not adhered to at Ultraviolette authorized service centers.
- The Motorcycle is repaired or disassembled by unauthorized persons or workshops.
- Any component of the Motorcycle is altered, seals are tampered with, unsuitable lubricants are used, or non-genuine spare parts are fitted.
- The Motorcycle's identification plate(s) or serial number is altered or removed.
- Damage is caused by corrosive substances, vibrations exceeding allowable limits, or environmental conditions.
- Any modification or alteration of the Motorcycle is undertaken by the Dealer and/or the Owner/User.
- The warranty will not apply if the motorcycle is used for commercial purposes, such as rentals, racing, competitive events, or any activity that puts abnormal stress on the motorcycle or its components.

Ownership transfer

If the motorcycle is sold to a subsequent owner, the original owner should submit a warranty transfer request either electronically or in writing. This must be performed to allow Ultraviolette's and Ultraviolette Dealer's the ability to contact the new owner for future updates and in the unlikely event of a safety related issue.

WARRANTY POLICY*

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

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 motorcycle, please contact Ultraviolette's legal department at legal@ultraviolette.com.

Ultraviolette Automotive Private Limited reserves the right to change and withdraw any clause of Warranty policy without prior information or notification.

NOTE

*For detailed terms and conditions related to Warranty, please refer

www.ultraviolette.com/legal

SUPPORT

Customer Support and Contact Information

For assistance with your motorcycle 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.

For any clarifications or assistance, please contact Ultraviolette support with your motorcycle's details, including the vehicle owner contact details, VIN, date of purchase, and the Authorized Dealer's name and location.

NOTE

For immediate answers to common questions, visit our FAQ section on our website

<https://www.ultraviolette.com/faq>

You can also reach Ultraviolette Support via the **UV App** or contact us at **080-6945-3322**.

Ultraviolette Support

www.ultraviolette.com/support



GLOSSARY

Here is a list of abbreviations used in this manual with their expansions

- ABS	Anti-Lock Braking System
- AC	Alternating Current
- ACWS	Anti Collision Warning System
- ALS	Ambient Light Sensor
- AI	Artificial Intelligence
- BMS	Battery Management System
- DC	Direct Current
- DOT	Department of Transportation
- DRL	Daytime Running Lamp
- ECE	Economic Commission for Europe
- GPS	Global Positioning System
- GLONASS	Global Navigation Satellite System
- ICE	Internal Combustion Engine
- IEC	International Electrotechnical Commission
- IP	Ingress Protection

GLOSSARY

- LTE	Long Term Evolution
- LH	Left Hand Side (Perspective of Rider seated on Motorcycle)
- OBD	On-Board Diagnostics
- OTA	Over-The-Air
- PRCD	Portable Residual Current Device
- RH	Right Hand Side (Perspective of Rider seated on Motorcycle)
- SoC	State of Charge
- TC	Traction Control
- TWI	Tyre Wear Indicator
- UV	Ultraviolette
- UVSST	Ultraviolette Special Service Tool
- VIN	Vehicle Identification Number
- WMTC	World Motorcycle Test Cycle
- SAE	Society of Automotive Engineers
- USD	Up-Side-Down

GLOSSARY

Units

- A	Ampere
- kWh	Kilo-Watt-Hour
- Km	Kilometre
- Kmph	Kilometre per Hour
- mm	Millimetre
- Nm	Newton Metre
- PSI	Pound per Square Inch
- V	Volt

Motorcycle State

- Armed	Motor is Turned ON/Engaged
- Disarmed	Motor is Turned OFF/Disengaged

NOTES

NOTES

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12°57'14.3"N  77°38'27.2"E

