



Read this manual carefully before operating this vehicle.

Baca manual ini dengan teliti sebelum mengendalikan kendaraan.

Owner's Manual

Manual Pemilik

SERRA
125

WELCOME

Congratulations and thank you for selecting **Aveta** product!

This manual should be considered a permanent part of the vehicle and should remain with the vehicle when it is resold.

This publication includes the latest production information on the primary data, basic structure, and main procedures for operating, maintaining, and troubleshooting the motorcycle.

Please note that ongoing product enhancements may result in variations between the vehicle and this manual.
Aveta Global Marketing Sdn Bhd reserves the right to make changes at any time without incurring any obligation.

Scan here for digital owner's manual



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7. Muffler / Exhaust
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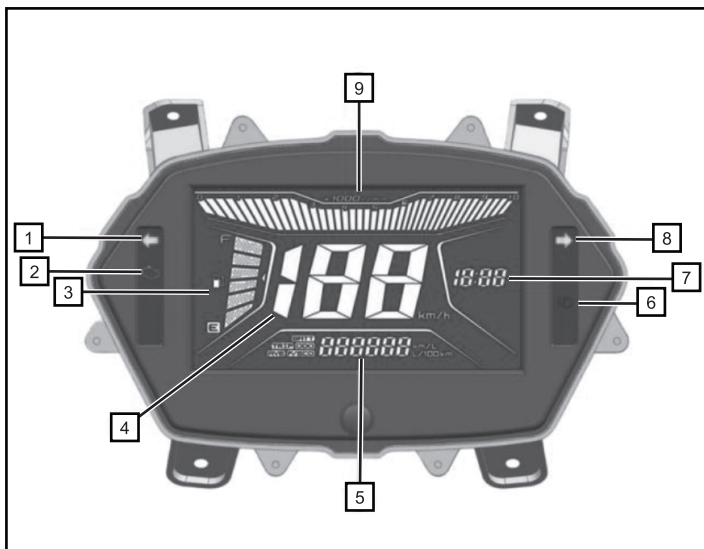
OVERVIEW AND OPERATION

Left-hand Side View

- 11. Front brake
- 12. Side stand
- 13. Engine
- 14. Air filter
- 15. Rear absorber
- 16. Seat
- 17. Side mirror
- 18. Rear brake lever



Instrumentation And Indicator Lights



1. Left-turn signal light

- The signal light flashes when pushing the turn signal switch to the left.

2. Check engine

- Indicate if any failure with engine system.

3. Fuel indicator

- Indicate level of fuel in tank storage. As the fuel decreasing, the fuel label will move to E (empty).

4. Speedometer

- Indicate speed in km/h.

5. Total mileage

- Record the total mileage of the motorcycle since it left the factory. Do not manually reset it to zero.

6. High-beam light

- Light will turn on when applied high-beam light .

7. Clock Display

- Display the current time.

8. Right-turn signal light

- The signal light flashes when pushing the turn signal switch to the right.

9. Tachometer

- The tachometer indicates the engine's rotational speed, with the unit being 1000r/min.

OVERVIEW AND OPERATION

SERRA 125 Main Specifications

Main Specifications	
Engine Type	Single cylinder、4-stroke、Air-cooling、Horizontal type、SOHC
Displacement	124 cc
Dimension	1950mm × 720mm × 1160mm
Net Weight	105 kg
Maximum power [kW/(r/min)]	6.5/7500
Maximum torque [N.m/(r/min)]	9.5/6000
Compression Ratio	10:1
Bore × Stroke	52.4 mm × 55.1 mm
Ignition System	ECU
Lubrication Method	Pressure and Splash
Starting	Electric
Transmission	CVT

OVERVIEW AND OPERATION

SERRA 125 Main Specifications

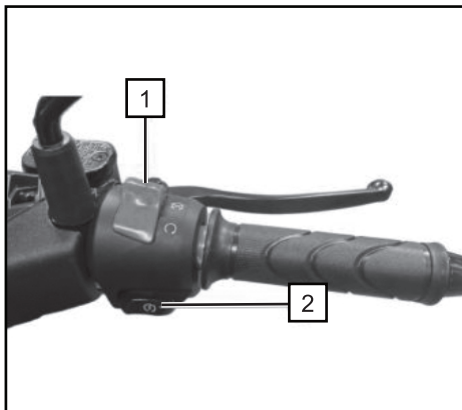
Chassis	
Frame	Back bone
Front Suspension	Telescopic forks
Rear Suspension	Single Shock absorber
Front Brake	Disc brake
Rear Brake	Drum brake
Front Rim Dimension	MT1.85 X 14
Rear Rim Dimension	MT2.5 X 14
Front Tire	80/90-14
Rear Tire	90/90-14

OVERVIEW AND OPERATION

SERRA 125 Main Specifications

Dimension	
Overall Length	1950 mm
Overall Width	720 mm
Overall Height	1160 mm
Wheelbase	1350mm
Ground Clearance	125 mm
Dry Weight	105 kg
Fuel Tank	6 L

Handle Switches



1. Start Stop switch

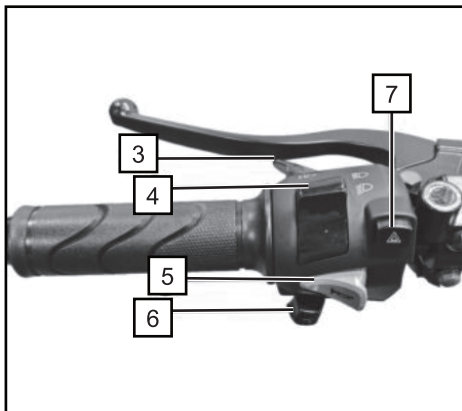
- When the switch is set to , the ignition circuit of the engine will be cut off and the vehicle will shut off directly, regardless of the gear of the key.
- When the switch is set to , the ignition circuit is restored to connection, the night driving light is on, and the vehicle can be started and driven normally.

2. Electric start switch

- Before starting the engine, retract the single support first. When you hold the brake handle tightly, the brake light will come on. Press the electric start switch button , and the engine will start. At the same time, the front headlights and rear taillights will come on.

3. Pass light

- When meeting or overtaking a vehicle, or when the headlights are in low beam, press this button continuously.



The high beams of the headlights will flash continuously to warn and alert the vehicle ahead.

4. High and low beam switch

- When the switch is turned to , both the high and low beam lights light up simultaneously. When the switch is turned to , the low beam light comes on.

5. Horn switch

- Press the switch , to activate the horn.

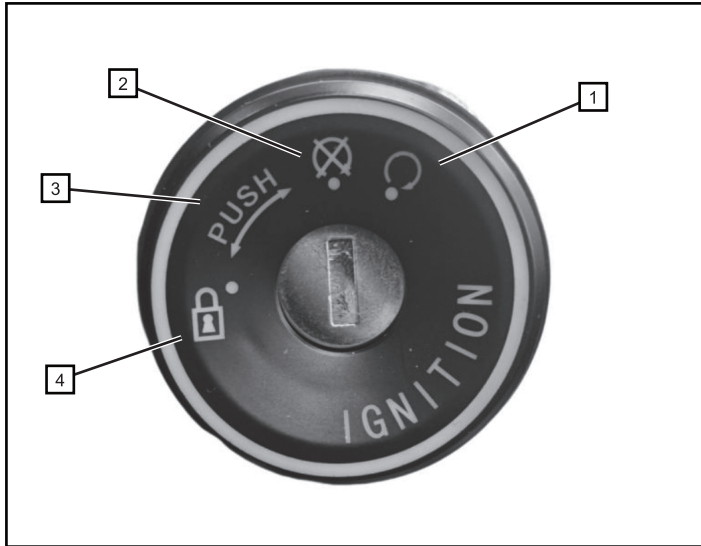
6. Signal switch

- After converting  or , the button will reset to the middle position, and the front/rear turn signal light (left/right) will flash. Press the button to turn it off.

7. Hazard warning light switch

- Press  the hazard warning light button, and the front and rear turn signals will flash simultaneously to alert you to danger.

Ignition Switches



1. Ignition switch

- When the key is turned to , the ignition system of the engine will be powered on. At this point, hold the brake handle and press the start button to start the vehicle, and all the electrical appliances of the vehicle will also work normally.

2. Off position

- When the key is turned to , the vehicle's circuit will be disconnected

3. Seat lock

- Turn the key to the left to  to unlock the seat.

4. Steering lock

- Press the key down to turn left to , lock the steering handle to prevent the vehicle from being pushed or stolen.

INSPECTION, REPAIR, MAINTENANCE

Periodic Maintenance Checks

Following form is the maintenance schedule at every regular intervals inspection, and the regular intervals time will depend on use time and kilometers. Every inspection should start with what the specification describes.



NOTE

If your vehicle were traveled in hideous conditions or continued high speed or driving in sandstorm, you should have a special inspection.

Component Assembly	1st Service After 1000km	Every 2500 km /6 Months	Every 5000 km /12 Months	Every 7500 km /18 Months	Every 10000 km /24 Months
1. Air cleaner foam	I	C	I	R	C
2. Oil Filter (Screen)	N/A	N/A	N/A	N/A	N/A
3. Engine Oil (EO)	R	R	R	R	R
4. Engine Oil Screen (LVL)	N/A	N/A	N/A	N/A	N/A
5. Oil Filter (OF)	R	R	R	R	R
6. Oil Strainer	N/A	N/A	N/A	N/A	N/A
7. Fuel Filter	I	I	I	I	I
8. Spark Plug	I	I	I	I	R
9. Ignition	N/A	N/A	N/A	N/A	R
10. Valve Clearance	N/A	I	N/A	I	N/A

I- Inspect clean or adjust R- Replace C- Clean L- Lubricate

INSPECTION, REPAIR, MAINTENANCE

Periodic maintenance checks

Component Assembly	1st Service After 1000km	Every 2500 km /6 Months	Every 5000 km /12 Months	Every 7500 km /18 Months	Every 10000 km /24 Months
11. Compression Check	N/A	N/A	N/A	N/A	N/A
12. Bolt and nuts (Engine)	I	I	I	I	I
13. Compression test	N/A	N/A	N/A	N/A	N/A
14. Exhaust System	I	I	I	I	I
15. Fuel Tank, Fuel Hoses	I	I	I	I	I
16. Battery	I	I	I	I	R
17. Throttle Body	I	R	I	R	I
18. Throttle Cable Adjustment	I	I	I	I	I
19. Transmission Oil (GO)	I	R	I	R	I
20. Transmission Check for leakage	I	I	I	I	I
21. Cranekcase check for leakage	I	I	I	I	I
22. Cranekcase vetilation	N/A	N/A	N/A	N/A	N/A
23. Final Drive system (Chain,CVT)		I	I	I	R

I- Inspect clean or adjust R- Replace C- Clean L- Lubricate

INSPECTION, REPAIR, MAINTENANCE

Periodic maintenance checks

Component Assembly	1st Service After 1000km	Every 2500 km /6 Months	Every 5000 km /12 Months	Every 7500 km /18 Months	Every 10000 km /24 Months
24. Steering and bearings	I	I	I	I	R
25. Handling System	I	I	I	I	R
26. Front and Rear suspension	I	I	I	I	I
27. Shock absorption	N/A	N/A	N/A	N/A	N/A
28. Tire Pressure & Wheels	I	I	I	I	I
29. Brake function & ABS System	I	I	I	I	R
30. Brake fluid, Brake pads	I	I	I	I	R
31. Main-and side stand	I	I	I	I	I
32. Bolts and nuts (Chassis)	I	I	I	I	I
33. Sensor Connector	I	I	I	I	I
34. Windsheild Adjuster (if applicable)	I	I	I	I	I
35. Clutch Discs	N/A	N/A	N/A	N/A	N/A

I- Inspect clean or adjust R- Replace C- Clean L- Lubricate

Troubleshooting

Fault	Fault cause		Troubleshooting
Engine cannot start	Spark plug not producing sparks	Spark plug damage	Replace
		Damaged ignition coil	Replace
		Damaged ignition switch	Replace
		Ignition system detachment or looseness	Reconnect or tighten
	Spark plug with weak sparks	Spark plug gap too small or too large	Do adjustment
		Spark plug electrode eroded	Replace
		Severe carbon accumulation in spark plugs	Clean up
		Refer to Spark Plug No Spark	
	No mixture in the cylinder	Fuel tank running out fuel	Refueling
		Oil pump plugin loose	Inspect
		Oil pump not working	Replace
		Blocked oil circuit	Unblock
		Air filter blockage	Clean the air filter
		Air leakage in the intake system	Check and eliminate

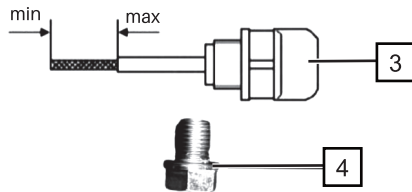
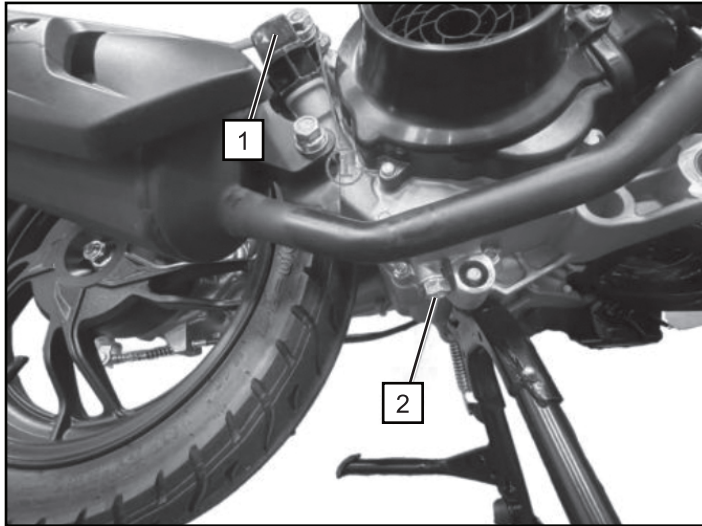
Troubleshooting

Fault	Fault cause		Troubleshooting
Engine cannot start	Low cylinder compression force	Spark plug seat leakage	Replace
		Air leakage at the joint surface of the cylinder head	Replace
		Worn valveseat ring	Replace
		Severe wear of piston rings or cylinder	Replace the piston ring or cylinder
		The piston ring is broken or blocked by carbon deposition	Replace piston rings or clean carbon deposits
Power weakness and poor acceleration	Low fuel octane number		Clean up
	Blocked oil circuit, poor fuel supply		Clean the oil circuit
	Ignition time too early or too late		Check the triggering coil
	Spark too weak or disconnected		Check the ignition system and troubleshoot it
	The mixture is too rich or too lean		Clean the throttle valve body
	Engine leakage		Check and eliminate
	Muffler blockage		Unblock
	Belt worn out		Replace

Troubleshooting

Fault	Fault cause	Troubleshooting
Power weakness and poor acceleration	Automatic clutch roller worn out	Replace
	Refer to 'Engine cannot start' table	
	Damaged starting relay	Replace
	Low battery level	Charge the battery
Unstable riding	Excessive steering bearing clearance	Do adjustment
	Insufficient tire pressure	Add to the specified air pressure(225kpa)
	Front and rear wheel axles loose	Tighten the nut
Brake Failure	Brake shoe worn out to limit	Replace
	Brake cam worn out	Replace
	Excessive free travel	Adjust and check the hydraulic oil

Engine oil replacement



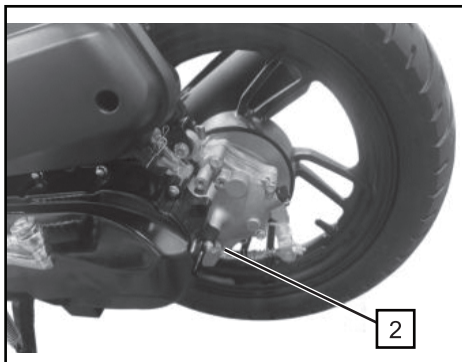
Cleaning the Oil Filter Strainer

1. First, remove the oil dipstick ①, oil bolt ②.
 2. Clean the oil bolt using a solvent.
 3. Reinstall the oil bolt.
 4. Fill the engine with oil that meets the specifications. The oil level should not exceed the highest mark on the dipstick ③.
- Note that the dipstick should not be screwed in when measuring the oil level.
5. Tighten the oil dipstick.
 6. Start the engine, let it idle for a few minutes, then stop the engine.
 7. Recheck the oil level, ensuring it is near the upper limit mark and there are no oil leaks.

Oil Capacity

After engine maintenance or major repairs, add 0.75L of oil.
Suggested engine oil grade: SJ-10W-40

Gear oil replacement



Suggested Gear Oil Grade :

GL-5-80W-90

Refueling Capacity :

Replacement capacity: 0.15 liters

Steps for Replacement:

1. Support the motorcycle securely on a parking stand.
2. Remove the gear bolt.①
3. Clean the gear bolt, conduct a thorough inspection, and then reinstall and tighten them.
4. Using a syringe, slowly inject gear oil into the gear oil bolt hole until it begins to overflow from the gear oil bolt hole.

5. Reinstall the gear oil bolt and tighten it securely.



ATTENTION

Ensure the engine is warm before draining the oil.

The motorcycle must be securely supported on the parking stand.

Allow the oil to drain completely and quickly.

Spark plug maintenance



The spark plug recommended :
CPR8EA (NGK)

Spark plug inspections and replacement steps :

1. Disconnect the spark plug cap and remove the spark plug with a specialized wrench.
2. Check the electrodes and central ceramic head for buildup, erosion, or carbon deposits. Replace if severely corroded; clean minor deposits with a spark plug cleaner or brush.
3. Adjust the gap between the side electrode (1) and central electrode (2) to 0.8–1.0 mm.
4. Use only the specified grade of spark plug; do not use substitutes.

Cleaning of the air filter

1. Remove the fixing screws of the air filter cover.
2. Remove the filter element from the air filter box.
3. Clean the filter element with compressed air or a dry brush, or place a new filter element in the filter box.

Follow the reverse procedure above to reinstall the air filter.



WARNING

Never use gasoline or low ignition point solvents to clean paper filter.

Battery maintenance

This scooter is equipped with a sealed battery (no water addition required).



CAUTION

The top cover of the sealed battery electrolyte should never be removed.

If corrosion occurs on the battery terminals, remove the battery and clean the terminals thoroughly. (Rinse with boiling water.)



CAUTION

When removing the battery, ensure the ignition switch is turned off. Disconnect the negative terminal first, followed by the positive terminal.

During reinstallation, connect the positive terminal first, then the negative terminal.

Fuses replacement

- The main fuse, rated at 20A/25A, is located inside the battery box.
- If the fuse frequently blows, it may indicate a short circuit or system overload. Consult your local authorized maintenance shop for inspection and repair.
- Replacing the specified fuse with copper wire is strictly prohibited.

Pre-Riding Inspection

Routine inspections should be conducted to ensure optimal vehicle performance and safe driving.

Fuel Tank Capacity

Turn on the ignition switch and check the fuel gauge. Refuel when it approaches the red mark. Also, inspect the fuel tank for leaks.

- Fuel tank capacity: 6 liters
- Insert the key into the fuel tank cap's keyhole and twist it clockwise to open.
- Use unleaded gasoline with an octane rating of 95 or higher whenever possible.
- Avoid introducing dust, moisture, or contaminants into the tank during refueling.

WARNING

Gasoline is highly flammable and can ignite or explode under certain conditions. Always refuel in a well-ventilated area with the engine turned off. Keep flames and sparks away from refueling and storage areas.

Do not overfill the tank (no fuel should enter the inlet pipe). Ensure the fuel tank is securely locked after refueling.

Gasoline is toxic and can cause fainting if swallowed. Avoid prolonged skin contact, and keep gasoline away from children. If swallowed, seek medical attention immediately.

Inspection of engine oil level

Turn on the ignition switch and check the fuel gauge. Refuel when it approaches the red mark. Also, inspect the fuel tank for leaks.

1. Support the motorcycle on a flat surface using a parking stand. Unscrew the oil dipstick, wipe it clean with a rag, reinsert it without screwing it in, and then remove it to check the oil level.
2. If the engine oil level is near the lower limit mark on the dipstick, add oil that meets the required specifications.

Ensure the oil level does not exceed the upper limit mark. After adding oil, tighten the dipstick and check for any signs of oil leakage.

Recommended Engine Oil Grade:
SJ-10W-40 (Scooter oil)

Pre-Riding Inspection

Tires checking

To ensure optimal vehicle performance, durability, and safe operation, follow these guidelines for the specified tires :

Tire pressure

Check and adjust tire pressure (225kpa) before every ride to maintain proper levels.



WARNING

Tire pressure must be checked and adjusted when the tires are cool (i.e., at the same temperature as the surrounding environment).

Adjust tire pressure based on driving speed and the combined weight of the rider, passengers, cargo, and accessories, ensuring it remains within the vehicle's specified limits.

Tires checking

1. Insert the key into the ignition switch and turn it to .
2. Hold the brake handle, press the start button , and slightly turn the accelerator to start the engine. Do not hold the electric start for more than 5 seconds at a time.



WARNING

Before riding, ensure the side stand is fully retracted. Failure to do so may result in serious accidents when turning.

If the electric start fails, wait 30 seconds before attempting again. For cold starts, allow the engine to warm up briefly (about 3 minutes) before riding.

In extremely hot weather, prolonged idling can cause the engine to overheat. Shutdown the engine promptly if overheating occurs.

Riding the scooter

WARNING

During operation, the muffler becomes extremely hot.

Accidental contact can cause burns, even shortly after the engine is turned off. Wear long trousers to protect yourself and avoid injury.

Always wear protective gear, such as a helmet, dust goggles, and gloves, while riding.

Avoid wearing loose or ill-fitting clothing, as loose sleeves or pant legs can catch on brake handles, braces, or other parts, leading to safety risks.

Ensure all equipment installed on the scooter complies with local traffic laws and regulations. Carry all required documents as mandated by local authorities.

NOTE

During the running-in period (first 1,000 km), maintain controlled speed and load. The total load, including the rider, should not exceed 100 kg. Over-speeding or overloading during this period significantly reduces engine life. Replace the crankcase oil after the initial 1000 km of riding.

Follow speed guidelines as per table below.

Range (km)	0-200	200-500	500-1000
Speed (km/h)	≤30	≤45	≤55

- Ensure the side stand is retracted, then sit on the seat and place your left foot on the ground to keep the scooter upright.
- Gradually increase the throttle to start moving, then retract your left foot and adjust the throttle to reach a suitable speed. When slowing down, gently close the throttle.

WARNING

Avoid sudden throttle operation, as it can cause the scooter to surge forward uncontrollably.

Always retract the side stand before riding and carefully assess road conditions along your route.

Riding the scooter

Brake operation

- To reduce speed effectively, close the throttle gradually and use both the front and rear brakes in coordination.
- Be extra cautious when braking, accelerating, or steering on wet or loose surfaces, especially during rainy conditions.

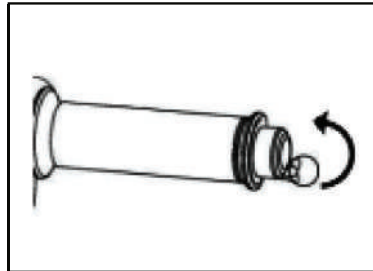


NOTE

- When descending steep slopes, fully close the throttle and use the front and rear brakes to control speed. Avoid prolonged braking to prevent overheating and reduced braking performance.
- On slippery roads or at medium to high speeds, do not use only the front or rear brake.
- Apply the rear brake first, then the front brake simultaneously, to minimize the risk of skidding.

Engine shutdown operation

- Close the throttle by turning it fully to the final position as indicated (under normal conditions, releasing the throttle will bring the engine to idle speed).
- Turn the ignition switch key to .



Parking operation

- Turn the ignition switch to "OFF" position.
- Engage the parking stand securely and lock the handlebars.



WARNING

Always park the motorcycle on hard, flat ground to prevent accidents or personal injury.

- Always lock the handlebars and remove the key from the ignition switch.
- Whenever possible, park the motorcycle in a locked garage for added security.

WARRANTY CLAIM POLICY

Warranty Claim Coverage and Guideline

No.	Engine component / Related with engine	Warranty Cover	Guideline
1.	Engine component / Related with engine	2 Years @ 20,000KM	Based on registration date
2.	Chassis component / Related with chassis	3 Months	Based on registration date
3.	Electrical Components	1 Year@ 10,000KM	Based on registration date
4.	Battery	6 Months	Based on registration date
5.	Wear and tear	Case by case basis	Based on registration date

Warranty Claim Process Flow

1. To receive immediate assistance, customers are encouraged to visit any AVETA authorized dealer or contact our service hotline at **012-503 5409 (Customers/End Users)**. Our support team is available and ready to assist with any inquiries or concerns.
2. In order to be eligible for warranty claim services, customers must present a valid proof of purchase along with the defective part or the affected motorcycle to the nearest authorized AVETA dealer.
3. Please note that this warranty does not cover any inconvenience, loss of use of the motorcycle, or costs associated with transporting the motorcycle to or from an AVETA dealer.

WARRANTY CLAIM POLICY

Warranty Limitations and Exclusions

1. AVETA warranty does not cover consumable parts that are subject to normal wear and tear. These include items such as sprockets, air filters, light bulbs, engine oil, coolant, belting, clutch plates, bearings, brake shoes, brake pads, spark plugs, brake discs, gaskets, fuses, and oil filters.
2. The warranty is also void if any parts of the motorcycle have been subjected to misuse, involved in an accident, treated negligently, or used with parts and equipment not manufactured or approved by AVETA. Such use may adversely affect the performance and reliability of the motorcycle.
3. Any parts that have been altered, modified, or replaced in an unauthorized manner will not be covered under the warranty if, in AVETA's sole judgment, such changes impact the motorcycle's performance or reliability.
4. AVETA's warranty does not extend to any indirect or consequential losses. This includes loss of profits, transportation expenses, downtime, or any external repair charges resulting from the breakdown of the motorcycle.
5. Damage or rust caused by environmental exposure—such as to acids, detergents, animal urine, seawater, cement water—as well as damage due to natural disasters including floods, earthquakes, and fires, or any external factors beyond AVETA's control, are also excluded from warranty coverage.

Judgment of Warranty Claims

AVETA Malaysia reserves the sole and final right to determine the validity of all warranty claims.



Aveta Global Marketing Sdn Bhd

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+60 12-503 5409 (Aveta Care on Wheels)