PREFACE No: IB9B

Thank you for selecting a HMCL Niloy Bangladesh Ltd. **MAESTRO EDGE** vehicle. We wish you many miles of continued riding pleasure in the years ahead.

We, at HMCL Niloy Bangladesh Ltd., are committed to demonstrate excellence in our environment performance on a continual basis, as an intrinsic element of our corporate philosophy. To achieve this we commit ourselves to continue product innovations to improve environment compatibility, comply with all applicable environment legislation and strengthen the green supply chain.

This booklet is your guide to the basic operation and maintenance of your new HMCL Niloy Bangladesh Ltd. **MAESTRO EDGE** vehicle**.** Please take time to read it carefully. As with any fine machine, proper care and maintenance is essential for trouble-free operation and optimum performance.

Your Authorised Distributor and Dealer(s) of the Distributor **("Dealer")** will be glad to provide further information or assistance and is equipped to handle your future service needs.

Let us make this world a safer, healthier and more environment friendly place.

NOTE

ALL INFORMATION, ILLUSTRATION, PHOTOGRAPH, DIRECTIONS, SPECIFICATIONS AND OTHER CONTENTS COVERED IN THIS OWNER'S MANUAL ARE BASED ON THE LATEST PRODUCT INFORMATION AVAILABLE AT THE TIME OF ITS PRINTING APPROVAL, AND THE ACCURACY OR CORRECTNESS OF THE SAME IS NOT UNDERTAKEN OR GUARANTEED.

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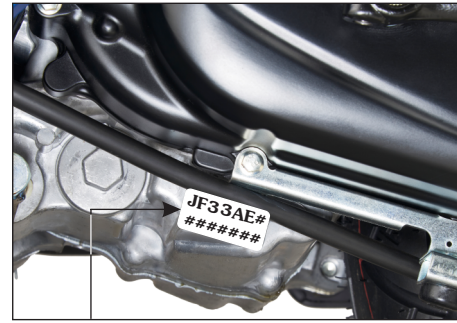
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VEHICLE IDENTIFICATION



Vehicle Identification Number (VIN)

Location: Stamped on the lower right side of the frame, visible from the window provided on right floor side cover.



Engine No.

Location: Stamped on the lower side of the left crankcase.

VIN: PS1JFW01##########

PS1	JFW01	#	#	#	#	#####
Manufacturer code	Vehicle Description	Check Digit	Model Year	Plant Code	Month of Manufacturing	Production Serial Number

Engine No.: JF33AE########

JF33AE	#	#	#	#####
Engine Description	Year of Manufacturing	Assembly Plant	Month of Manufacturing	Serial Number

Model: Maestro EDGE

Variant	VIN	Engine
Drum/Cast wheel/Integrated brakes	JFW01	JF33AE

VIN and Engine number may be required:

1. During registration of the vehicle.
2. For dealing with legal & insurance departments.

VEHICLE SPECIFICATION

ITEM		SPECIFICATIONS
Dimensions		
Overall length		1843 mm
Overall width		715 mm
Overall height		1139 mm
Wheelbase		1261 mm
Saddle height		775 mm
Ground clearance (Under cover)		155 mm
Weight		
Kerb weight		110 kg
Capacities		
Engine oil		0.80 litre at disassembly and 0.70 litre at draining
Transmission oil		0.12 litre at disassembly
		0.10 litre at draining
Fuel tank		5.5 litres
Front fork oil disassembly		97 ml
Engine		
Maximum power		5.80 kW @ 7500 r/min
Maximum torque		8.50 N-m @ 5500 r/min
Bore and stroke		50.0x56.5 mm
Compression ratio		9.5:1
Displacement		110.9 cc
Spark plug		Champion-RG8YC (Federal Mogul)
Spark plug gap		0.8-0.9 mm
Valve clearance	Intake (cold)	0.14±0.02 mm
	Exhaust (cold)	0.14±0.02 mm
Idle speed		1700±200 r/min
Chassis and suspension		
Chassis type		High rigidity under bone type
Front suspension		Telescopic, hydraulic shock absorber
Rear suspension		Unit swing with spring loaded hydraulic damper
Caster angle		28°
Tyre size	Front	90/90-12 54 J (Tubeless tyre)
	Rear	90/100-10 53 J (Tubeless tyre)

VEHICLE SPECIFICATION

ITEM		SPECIFICATIONS
Front/Rear brake drum type		Internal expanding shoe type (Dia. 130 mm) **(Integrated braking)**
Transmission		
Primary reduction		Variomatic drive, (2.53-0.8)
Final reduction		9.423 (50/20X49/13)
Clutch system		Dry, automatic centrifugal clutch
Electricals		
Battery		12V-4Ah ETZ-5 *MF battery
Alternator		125 W @ 5000 r/min
Starting system		Kick/Electric start
Headlamp (High/Low)		13.2V-17W/8.5W (LED)
Tail/Stop lamp		12V-0.4W/1.6Wx8 nos. (LED)
Turn signal lamp		12V-10Wx4 nos.(**MFR-Clear lens-Amber bulb)
Position lamp		12V-4.7W (LED)
Meter illumination		LED
Turn signal indicator (RH+LH)		LED (Green)
Hi beam indicator		LED (Blue)
Licence plate		12V-5W
Side stand indicator		LED (Red)
Low fuel indicator		LED Amber
i3s indicator		LED (Blue)
Boot lamp		14V, 30 mA
Fuse	Main fuse	15A, 10A & 10A
	Spare fuse	15A & 10A

* **MF stands for Maintenance Free**

** **MFR stands for Multi-Focal Reflector**

VEHICLE SAFETY

IMPORTANT SAFETY INFORMATION

Your vehicle can provide many years of service and pleasure if you take responsibility for your own safety and understand the challenges you can meet on the road.

There is much that you can do to protect yourself when you ride. You will find many helpful recommendations through out this manual. Following are a few that we consider most important.

Always wear a helmet

It is a proven fact, helmet significantly reduces the number and severity of head injuries. So always wear a helmet and make sure your pillion rider does the same. We also recommend that you wear eye protection, sturdy boots, gloves and other protective gear **(page 6)**.

Before riding your vehicle

Make sure that you are physically fit, mentally focused and free of alcohol and drugs. Check that you and your pillion are both wearing an approved vehicle helmet and protective apparel. Instruct your pillion on holding onto the grab rail or your waist, leaning with you in turns, and keeping their feet on the foot pegs, even when the vehicle is stopped.

Take time to learn & practice your vehicle

Even if you have ridden other vehicles, practice riding in a safe area to become familiar with how this vehicle works and handles, and to become accustomed to the vehicle's size and weight.

Ride defensively

Always pay due attention to other vehicles around you, and do not assume that other drivers see you. Be prepared to stop quickly or perform an evasive maneuver.

Make yourself easily visible

Some drivers do not see vehicles because they are not looking for them. To make yourself more visible, wear bright reflective clothing, position yourself so that others can see you, signal before turning or changing lanes, and use horn which will help others to notice you.

Ride within your limits

Pushing the limits is another major cause of vehicle accidents. Never ride beyond your personal abilities or faster than conditions demand. Remember that fatigue and negligence can significantly reduce your ability to make good judgements and ride safely.

Do not drink and ride

Riding under the influence of alcohol or drugs is dangerous. Alcohol can reduce your ability to respond to changing conditions and reduce the reaction time. Do not drink and ride.

Keep your vehicle in safe condition

For safe riding, its important to inspect your vehicle before every ride and perform all recommended maintenance. Never exceed load limits, and only use accessories that have been approved by HMCL Niloy Bangladesh Ltd. for this vehicle. See **(page 7)** for more details.

If you are involved in a crash

Personal safety is your first priority. If you or anyone else has been injured, take time to assess the severity of the injuries and whether it is safe to continue riding. Call for emergency assistance if needed. Also follow applicable laws and regulations if another person or vehicle is involved in the crash.

If you decide to continue riding, first evaluate the condition of your vehicle. If the engine is still running, turn it off. Inspect for fluid leaks, check the tightness of critical nuts and bolts, and check the handlebar, brake levers, brakes, and wheels. Ride slowly and cautiously. Your vehicle may have suffered damage that is not immediately apparent. Have your vehicle thoroughly checked at a qualified service facility as soon as possible.

PROTECTIVE APPAREL

For your safety, we strongly recommend that you always wear a helmet which should conform as per your country standards, in addition to eye protection, boots, gloves, long pants and a long sleeve shirt or jacket whenever you ride. Take care of loose/ hanging clothes while solo/pillion riding. Although complete protection is not possible, wearing proper gear can reduce the chance of injury when you ride.

Following are suggestions to help you choose proper riding gear.

⚠ WARNING

- ***Not wearing a helmet increases the chance of serious injury or death in a crash.***
- ***Be sure you and your pillion always wear a helmet, eye protection and other protective apparel when you ride.***

Helmets and eye protection

Your helmet is your most important piece of riding gear because it offers the best protection against head injuries. A helmet should fit your head comfortably and securely. A bright coloured helmet can make you more noticeable in traffic, as can reflective strips.

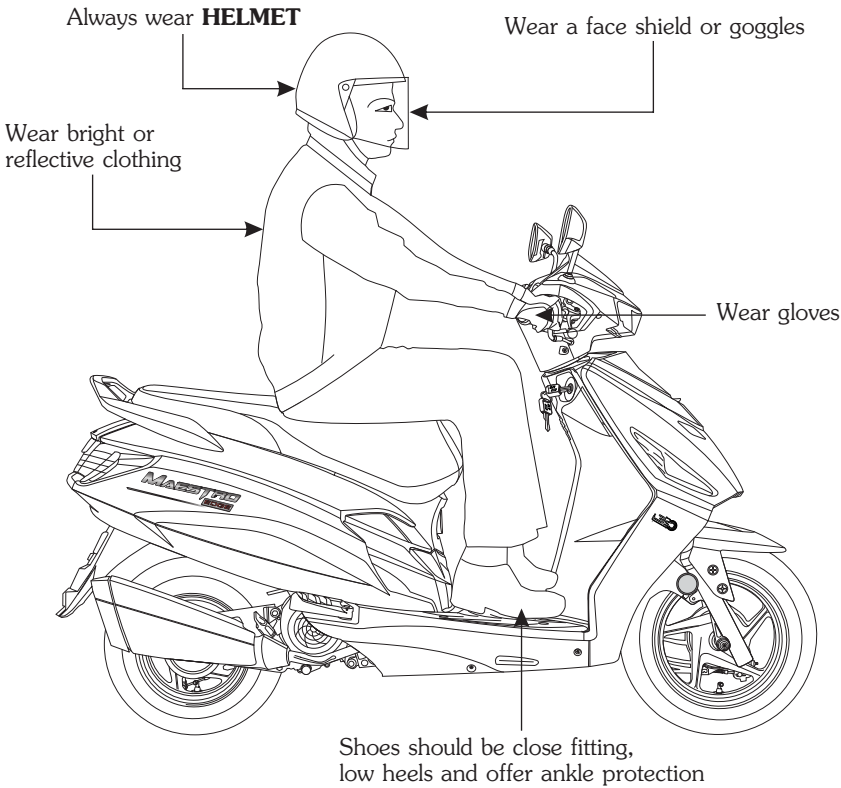
An open-face helmet offers some protection, but a full-face helmet offers more. Always wear face shield or goggles to protect your eyes and help your vision.

Additional riding gear

In addition to a helmet and eye protection, we also recommend:

- Sturdy boots with non-slip soles to help protect your feet and ankles.
- Leather gloves to keep your hands warm and help prevent blisters, cuts, burns, and bruises.
- A two wheeler riding suit or jacket for comfort as well as protection. Bright coloured reflective clothing can help make you more noticeable in traffic. Be sure to avoid loose clothes that could get caught on any part of your vehicle.

PROTECTIVE APPAREL



LOAD LIMITS AND GUIDELINES

Your vehicle has been designed to carry you, one pillion and limited amount of cargo. When you add cargo or carry a passenger, you may feel some difference during acceleration and braking. But so long as you keep your vehicle well maintained, with good tyres and brakes, you can safely carry loads within the limits and guidelines.

However exceeding the weight limit or carrying an unbalanced load can seriously affect your vehicle's handling, braking and stability. Non genuine accessories, modifications, and poor maintenance can reduce your safety margin.

The following pages give more specific information on loading, accessories and modifications.

Loading

How much weight you put on your vehicle, and how you load it, are important to your safety. Anytime you ride with a pillion or cargo you should be aware of the following information.

⚠ WARNING

- ***Overloading or improper loading can cause a crash and you can be seriously injured.***
- ***Follow all load limits and other loading guidelines in this manual.***

Load limits

Following are the load limits for your vehicle:

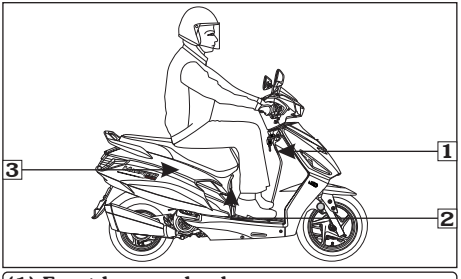
Maximum weight capacity: 130 Kg

Includes the weight of the rider, pillion, all cargo and all accessories.

Putting too much weight in individual storage compartments can also affect stability and handling. So be sure to stay within the limits given below:

Maximum weight:

Center compartment : 10.0 Kg
Rear luggage hook : 1.5 Kg
Front luggage hook : 3.0 Kg



(1) Front luggage hook
(2) Rear luggage hook (3) Center compartment

Loading guidelines

Your vehicle is primarily intended for transporting you and a pillion. If you wish to carry more cargo, check with your Authorised Distributor/Dealer for advice and be sure to read the information regarding accessories on **(page 8)**.

Improperly loading your vehicle can affect its stability and handling. Even if your vehicle is properly loaded, you should ride at reduced speeds whenever carrying cargo.

Follow these guidelines whenever you carry a pillion or cargo:

- Check that both tyres are properly inflated.
- To prevent loose items from creating a hazard, make sure the center compartment is closed and that any other cargo is securely tied down before you ride away.
- Place cargo weight as close to the center of the vehicle as possible.
- Balance cargo weight evenly on both sides.

ACCESSORIES AND MODIFICATIONS

Modifying your vehicle or using non genuine accessories can make your vehicle unsafe. Before you consider making any modifications or adding any accessory, be sure to read the following information.

⚠ WARNING

- ***Improper accessories or modifications can cause a crash in which you can be seriously hurt or killed.***
- ***Follow all instructions in this owner's manual regarding accessories and modifications.***

Accessories

We strongly recommend that you use only genuin accessories that have been specifically designed and tested for your vehicle. HMCL Niloy Bangladesh Ltd. cannot test all other accessories, you must be personally responsible for proper selection, installation and use of non genuine accessories.

Check with your dealer for assistance and always follow these guidelines:

- Make sure the accessories does not obstruct any lamps, reduce ground clearance and banking angle, limit suspension travel or steering travel, alter your riding position or interfere with operating any controls.
- Be sure electrical equipment does not exceed the vehicle's electrical system capacity **(page 3)**. A blown fuse can cause loss of lights.
- Do not pull a trailer or sidecar with your vehicle. This vehicle is not designed for these attachments, and their use can seriously impair your vehicle handling.

Modifications

We strongly advise you not to remove any original equipment or modify your vehicle in any way that would change its design or operation. Such changes could seriously impair your vehicle's handling, stability and braking, making it unsafe to ride.

Removing or modifying your lamps, muffler, emission control system or other equipment can also make your vehicle not meeting the emission standards.

SAFE RIDING TIPS

Do's:

- Always conduct simple pre-ride inspection **(page 49)**.
- Always wear a helmet with chinstrap securely fastened and insist on a helmet for your pillion rider. Helmet should conform as per safety standards applicable in your country.
- While riding, keep your leg closed and sit in a comfortable position.
- Ride defensively and at a steady speed (between 40-50 km/hr).
- For stopping vehicle, use both brakes simultaneously, keeping throttle in the close position.
- During night time, dip headlamps of your vehicle for oncoming traffic, or when following another vehicle.
- Give way to others on the road and signal before you make a turn.
- To make yourself more visible, wear bright reflective clothing that fits well.
- Take care of loose/hanging clothes while solo/pillion riding.
- Get your vehicle serviced regularly by the Authorised Distributor/Dealer.
- Before riding make sure in which mode you are riding whether with i3s switch "ON' or "OFF".

Don'ts:

- Never use cell phone while riding the vehicle.
- Avoid sudden acceleration, braking and turning of your vehicle.
- Never touch any part of the hot exhaust system like muffler.
- Never ride under the influence of alcohol or drugs.
- Concentrate on the road and avoid talking to the pillion rider or others on the road.
- Do not litter the road.
- Do not cross the continuous white/yellow line in the center of the road, while overtaking.
- Do not attach large or heavy items to the handlebars.
- Never take your hands off the steering handle while riding.
- Navigation system assists you to reach your destination, don't be distracted while driving. Drive safely and always obey traffic rules.

TIPS FOR HEALTHY ENVIRONMENT

The following tips shall ensure a healthy vehicle, healthy environment, and a healthy you.

- **Healthy engine:** The engine is the lifeline of every vehicle. To keep it healthy, it should be tuned regularly, which will also help reduce pollution and improve vehicle performance.

- **Regular servicing:** Get your vehicle serviced at an Authorised service station, as per the service schedule, for an optimum performance and keep the emission level under check.

- **Genuine spares:** Always insist on genuine parts as spurious or incompatible spares and accessories can upset or deteriorate your vehicle's running condition.

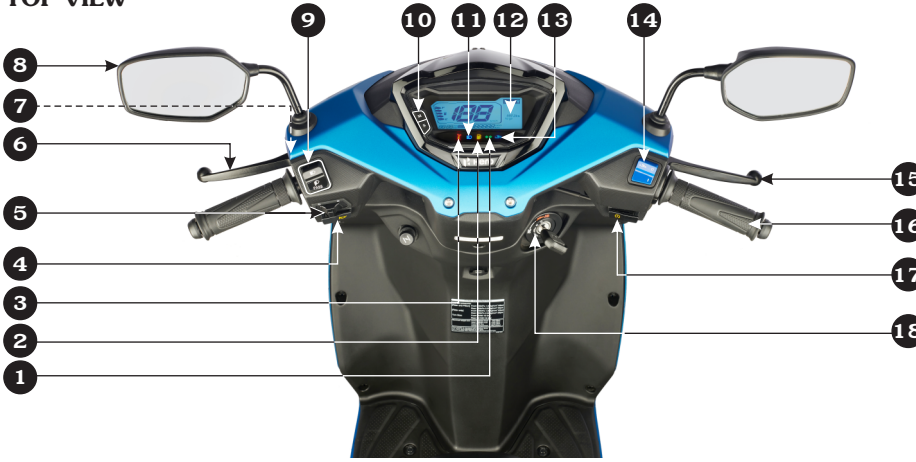
- **Genuine engine oil:** Hero 4T Plus SAE 10W 30 SL grade (JASO MB) engine oil recommended by HMCL Niloy Bangladesh Ltd. and make sure you change it every 6000 km (with top up every 3000 kilometres) to keep the engine fit and environment healthy.

- **Noise pollution:** Noise beyond a certain decibel is pollution. Whether it is from horns or defective mufflers, excessive noise will cause headaches and discomfort.

- **Fuel saving & reduce pollution:** Switch "OFF" the engine while waiting at traffic signal points to save fuel and reduce pollution, if the waiting period is long.

TOP VIEW

VEHICLE VIEWS



(1) Turn signal indicators
(2) Low fuel indicator
(3) Side stand indicator
(4) Horn switch
(5) Turn signal switch
(6) Integrated brake lever
(7) Lever lock
(8) Rear view mirror
(9) Dimmer switch/Passing switch
(10) Mode (M) and Set (S) buttons
(11) High beam indicator
(12) LCD panel of meter console. Refer instruments and indicators **(page 16)** for fuel gauge, speedometer and other features of console
(13) i3s indicator
(14) i3s switch
(15) Front brake lever
(16) Throttle grip
(17) Electric starter switch
(18) Ignition switch with steering lock, seat lock and fuel lid opener

***Accessories and features shown may not be part of standard fitment.**

LEFT SIDE VIEW



(1) Front reflex reflector
(2) Side stand switch
(3) Side stand
(4) Main stand
(5) Kick starter pedal
(6) Rear turn signal lamp
(7) Tail/stop lamp
(8) Rear grip
(9) Seat
(10) Rear luggage hook
(11) Headlamp

***Accessories and features shown may not be part of standard fitment.**

RIGHT SIDE VIEW



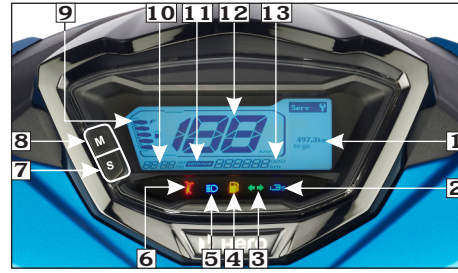
(1) Exhaust muffler
(2) Oil level dipstick
(3) Pillion step
(4) Front turn signal lamp
(5) Position lamp
(6) Front luggage hook
(7) Center compartment (inside)
(8) Rear reflex reflector

Accessories and features shown may not be part of standard fitment.

PART FUNCTIONS

INSTRUMENTS AND INDICATORS

The indicators are in the speedometer panel above the headlamp. The functions are as below.



Sl. No.	Description	Function
1	Next service distance	Indicates how many kilometer are left before the next service is due. It appears for few seconds when the ignition switch is turned "ON" (O) **(page 19).**
2	i3s indicator	Indicator glows for 2 seconds and turns "OFF" indicating that i3s system is functional.
3	Turn signal indicators	Flashes when turn signal switch is operated.
4	Low fuel indicator	Light glows when the fuel quantity is low **(page 19)**.
5	High beam indicator	Light glows when headlamp is in high beam.
6	Side stand indicator	Light glows when the vehicle is parked on the side stand.
7	Set button	To adjust clock, date & tripmeter. When long pressed resets tripmeter to zero.
8	Mode button	To change the mode (tripmeter-1 & 2 & navigation mode), clock and date adjust.

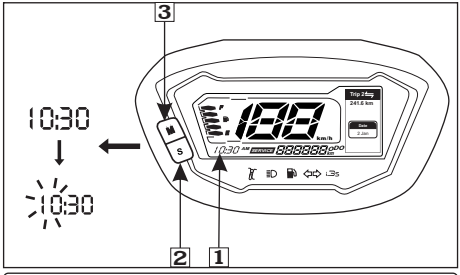
Sl. No.	Description	Function
9	Fuel gauge	Indicates approximate fuel available in the form of digital segments. The digital segments will swing to maximum scale on the meter console once the ignition switch is turned "ON" (Ω) **(page 19).**
10	Digital clock	Indicates time in hour and minute (12 hr format as AM/PM) **(page 16)**.
11	Service reminder indicator	Displays when the next service is due **(page 19).**
12	Speedometer	Indicates riding speed.
13	Odometer	Shows accumulated distance travelled **(page 17).**

LCD PANEL

(a) Digital clock

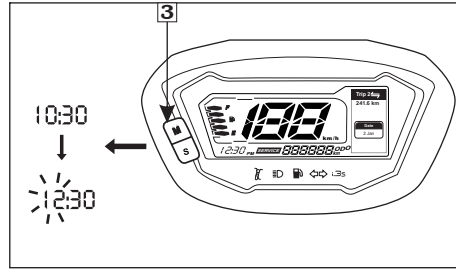
Digital clock (1) shows hour and minute. To adjust the time, proceed as follows :

- Turn the ignition switch "ON" (⏻).
- Press and hold set button (2) and mode button (3) simultaneously for more than 2 seconds. The clock will be set in the adjust mode with the hour's digit display blinking.



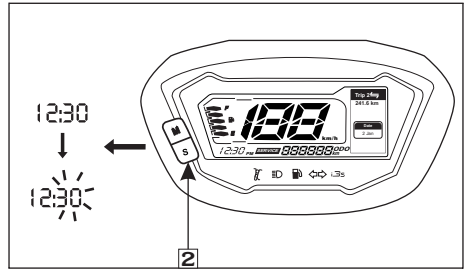
(1) Digital clock **(2) Set button**
(3) Mode button

- To set the hour, press mode button (3) until the desired hour is displayed.
  - The time is advanced by 1 hour each time the button is pressed.
  - The time advances fast when the button is pressed and held.
  - "AM" will change to "PM" (after midday).
  - PM will change to AM (before midday).



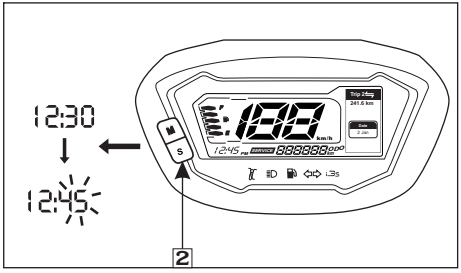
(3) Mode button

- Press the set button (2). The minutes display starts blinking.



(2) Set button

- To set the minute press set button (2) until the desired minute is displayed. The minute display will return to "00" when "60" is reached without affecting the hour display.
  - The time advances by 1 minute, each time the button is pressed.
  - The time advances fast when the button is pressed and held.



(2) Set button

- To end the adjustment press set button (2). The display will stop flashing automatically and it will return to its pervious value if the button is not pressed for 30 seconds or more.

NOTE

The clock will reset "AM: 1:00" if the battery is disconnected.

(b) Odometer/Tripmeter

The odometer (1) shows accumulated distance travelled.

The tripmeter (2) shows distance travelled since trip meter was reset last time. There are two tripmeters, "Trip-1" and "Trip-2".

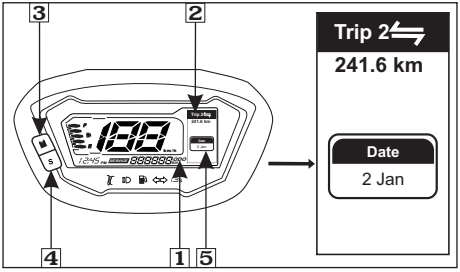
Push the mode button (3) to select "Trip-1" and "Trip-2". "Trip-1" and "Trip-2" can be displayed upto "999.9" km.

If the tripmeter exceeds "999.9" km it will return to "0.0" km automatically.

Tripmeter displays following parameters:

- **Distance**: distance covered in a trip.
- **Avg Speed**: it indicates the average running speed of the vehicle with respect to km covered per hour throughout the trip.
- **Trip time**: time taken to complete a trip.
- **Date**: it shows the current date.

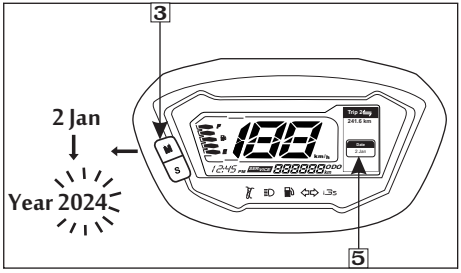
When tripmeter is selected, long press (more than 2 seconds) the set button to reset tripmeter to zero. The odometer can be displayed from "0 to 999999" km.



(1) Odometer **(2) Tripmeter**
(3) Mode button **(4) Set button**
(5) Date

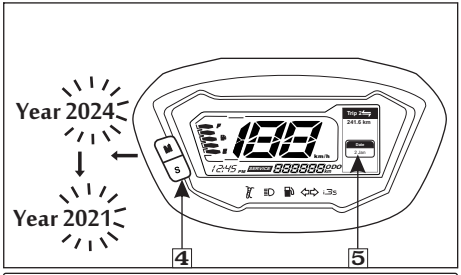
To update the date proceed as follows :

- Turn the ignition switch "ON" (⏻).
- Press and hold set button (4) and mode button (3) simultaneously for more than 2 seconds. The clock display will start blinking **(page 16)**.
- Keep pressing and releasing mode button (3) until date display (5) starts blinking.



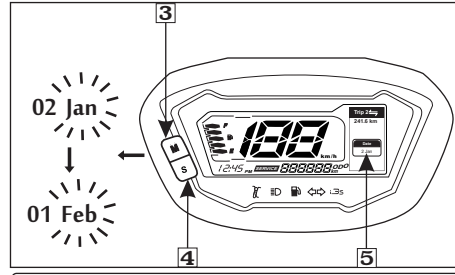
(3) Mode button **(5) Date display**

- Now to set year, press set button (4) until the desired year is displayed.



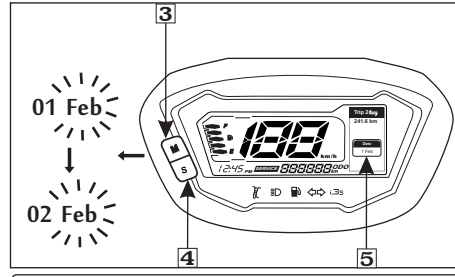
(4) Set button **(5) Date display**

- To set month, press the mode button (3) to switch from year to month display. Now press the set button (4) until the desired month is displayed.



(3) Mode button **(4) Set button**
(5) Date display

- To set day, press the mode button (3) to switch from month to day display. Now press the set button (4) until the desired day is displayed.



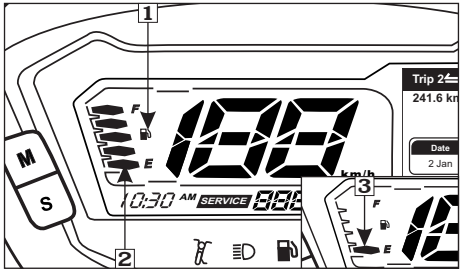
(3) Mode button **(4) Set button**
(5) Date display

- To end the adjustment press the mode button until date display stops blinking.

(c) Fuel gauge

The fuel gauge (1) indicates approximate fuel available in the form of digital segments.

The digital segments (2) will swing to maximum scale on the meter console once the ignition switch is turned "ON" ( ). If all the segments are displayed it means fuel quantity in the fuel tank is approximately 5.5 litres.



(1) Fuel gauge **(2) Segments**
(3) One Segments

(d) Low fuel indicator

Low fuel indicator (1) is a warning indicator for the user to fill the fuel as soon as possible.

CAUTION

Please ensure fuel is filled up as soon as the low fuel indicator starts glowing.

NOTE

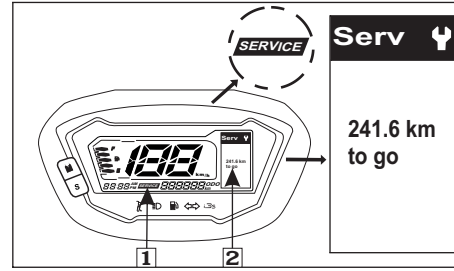
To check the fuel level indication, the vehicle should be on levelled surface and in stationary condition.



(1) Low fuel indicator

(e) Service reminder indicator

The service reminder indicator (1) is to indicate the user to bring the vehicle to an Authorised Distributor/Dealer for service.



(1) Service reminder indicator
(2) Next service distance

The indicator shall start blinking when the vehicle covers kilometers as specified in the maintenance schedule. The indicator will keep on blinking throughout the kilometer interval for a particular service and will stay "ON" thereafter.

Meter console also displays the next service distance (2). It indicates how many kilometers are left before the next service is due. It appears for few seconds when the ignition switch is turned "ON" (ON).

The service reminder indicator can be reset at an Authorised Distributor/Dealer.

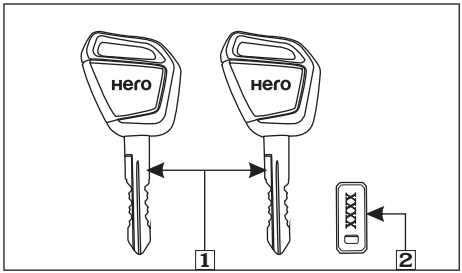
NOTE

After getting the vehicle serviced, make sure that the service reminder indicator has been reset.

KEYS

This vehicle has two keys and a key number plate.

You will need the key number if you ever have to replace a key. Store the plate in a safe place.



(1) Keys **(2) Key number plate**

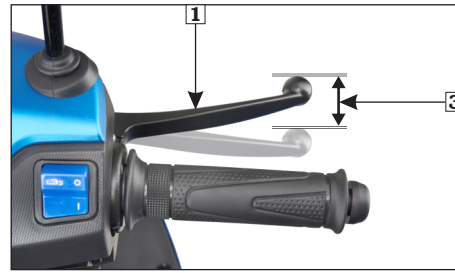
MAJOR COMPONENTS

(Information you need to operate this vehicle)

BRAKES (INTEGRATED BRAKING)

Brakes are items of personal safety and should always be maintained with proper adjustments.

When one applies the left lever, front & rear brakes activate jointly.



(1) Front brake lever



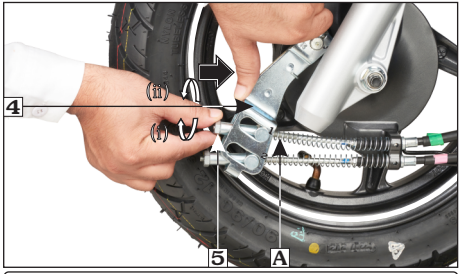
(2) Integrated brake lever
(3) Free play: 10-20 mm

The distance, the front brake lever (1) and integrated brake lever (2) moves before each brake starts to engage is called free play (3). Measured at the tip of brake levers, free play should be maintained at 10-20 mm.

Adjustment

Right hand front brake cable (A) on "1" side

- Push the integrated brake arm (4) by hand in the direction as shown.
- Turn the first adjuster nut (5) till you cannot turn it by hand.



(4) Integrated brake arm (5) First adjuster nut
(i) Decrease free play (ii) Increase free play

- Check the free play of right lever.

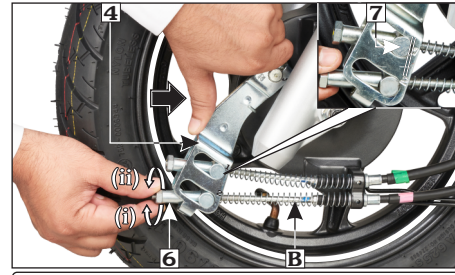
  FREE PLAY: 10-20 mm
- If the free play is more than 20 mm further turn the adjuster nut to obtain desired free play.

Left hand front brake cable (B) on "2" side.

- Push the integrated brake arm (4) by hand in the direction as shown.
- Turn the second adjuster nut (6) until a gap is created between joint (7) and the slot on the first side in integrated brake arm.
- After ensuring the gap, turn the second adjuster nut counterclockwise by half rotation.

NOTE

"1" & "2" is marked on integrated brake arm.

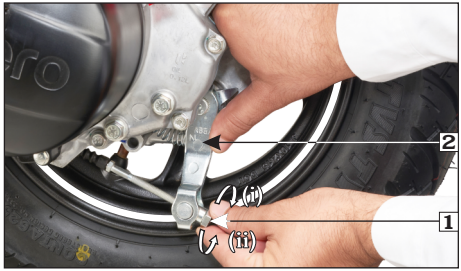


(6) Second adjuster nut (7) Joint
(i) Decrease free play (ii) Increase free play

REAR BRAKE

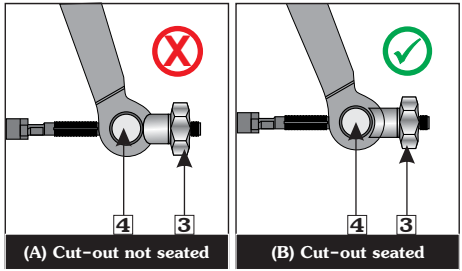
- Make free play adjustment by turning the adjuster nut (1) in the brake arm (2).
- Check the free play of integrated brake lever.

  FREE PLAY: 10-20 mm
- If the free play is more than 20 mm further turn the adjuster nut to obtain desired free play.



(1) Adjuster nut **(2) Brake arm**
(i) Decrease free play **(ii) Increase free play**

Make sure the cut-out on the adjusting nut (3) is seated on the brake joint pin (4) after making final free play adjustment.



(A) Cut-out not seated **(B) Cut-out seated**

(3) Adjusting nut **(4) Brake joint pin**

If proper adjustment cannot be obtained by this method, visit your Authorised Distributor/ Dealer.

Other checks:

Check brake cable for kinks or signs of wear that could cause sticking or failure.

Make sure the brake arm spring and fasteners are in good condition.

NOTE

Apply the brake several times and check for free wheel rotation after the brake lever is released.

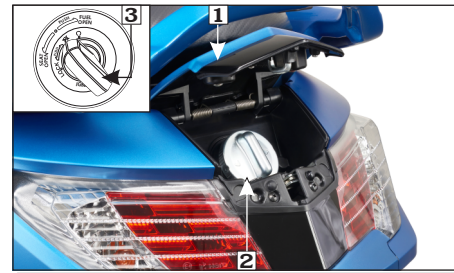
FUEL

(a) Fuel tank

The fuel tank is located under the seat.

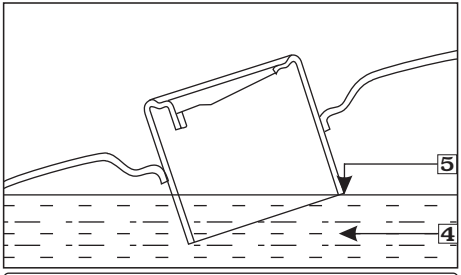
The fuel tank capacity is **5.5 litres** (Be sure to fill the fuel tank when low fuel indicator glows).

To open the fuel filler cap (2), insert the ignition key (3), push it in and turn the ignition key to "FUEL OPEN" position **(page 27)**. The fuel tank lid (1) will open as shown in the picture. Remove the fuel filler cap by turning it counterclockwise.



(1) Fuel tank lid **(2) Fuel filler cap**
(3) Ignition key

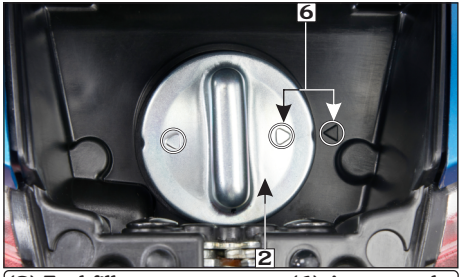
Do not overfill the tank. There should be no fuel (4) in the filler neck (5).



(4) Fuel **(5) Filler neck**

We recommend that you use unleaded petrol because the muffler in the vehicle is fitted with a catalytic convertor, it also produces lesser deposits in engine and on spark plug, which extends the life of exhaust system and other components.

After refueling, be sure to tighten the fuel filler cap firmly by turning it clockwise.



(2) Fuel filler cap **(6) Arrow marks**

Make sure the arrow marks (6) on the fuel filler cap and the fuel tank are aligned.

For locking, press the fuel tank lid gently.



NOTE

If "Spark knock" or "pinking" occurs at a steady engine speed under normal load, change petrol brand. If the same still persists, consult your Authorised Distributor/Dealer. Failure to do so is considered misuse, and damage caused by misuse is not covered under HMCL Niloy Bangladesh Ltd. ***warranty policy.***

(b) Petrol containing alcohol

If you decide to use a petrol containing alcohol (gasohol), be sure its octane rating is at least as high as that recommended by HMCL Niloy Bangladesh Ltd.

There are two types of "gasohol", one containing ethanol, and the other containing methanol.

Do not use petrol that contains more than 10% of ethanol.

Do not use petrol containing methanol (methyl or wood alcohol) that does not contain cosolvents and corrosion inhibitors for methanol.

Never use petrol containing more than 5% methanol, even if it has cosolvents and corrosion inhibitors.

- When certain type of petrol containing alcohols are used, problems such as hard starting, poor performance, etc. may occur.
- If you notice any undesirable operating symptoms while using the petrol that contains alcohol, try another station or switch to another brand of petrol.
- When a problem resulting from the use of petrol containing alcohol occurs, contact your Authorised Distributor/Dealer.

CAUTION

Please ensure fuel is filled up as soon as the low fuel indicator starts glowing.

WARNING

- ***Petrol is highly flammable and explosive. You can be burned or seriously injured when handling fuel.***
- ***Stop the engine and keep heat, sparks and flame away.***
- ***Refuel only outdoors.***
- ***Wipe off spills immediately.***

TYRES (TUBELESS)

The tyres fitted on your vehicle are of TUBELESS type.

To safely operate your vehicle, the tyres must be of the proper type and size in good condition with adequate tread and correctly inflated for the load you are carrying. The following pages give more detailed information on how and when to check the air pressure, how to inspect the tyres for damage and what to do when tyres need to be repaired or replaced.

WARNING

- ***Riding on tyres that are excessively worn or improperly inflated can cause a crash in which you can be seriously hurt or killed.***
- ***Follow all instructions in this owner's manual regarding tyres inflation and maintenance.***

Air pressure

Keeping tyres properly inflated provides the best combination of handling, tread life and riding comfort. Generally, under-inflated tyres wear unevenly, adversely affect handling and are more likely to fail from being overheated.

Over-inflated tyres make your vehicle ride harshly are more prone to damage from road hazards and wear unevenly.

We recommend that you visually check tyres before every ride and use a gauge to measure air pressure at least once a month or any time you think the tyre pressure is low.

Tubeless tyres have some self-sealing ability if they are punctured. However, because leakage is often very slow, you should look closely for punctures whenever a tyre is not fully inflated.

Always check air pressure when your tyres are "cold"-when the vehicle has been parked for at least three hours. If you check air pressure when your tyres are "warm"-when the vehicle

has been ridden for even a few kilometers, the readings will be higher than if the tyres were ″cold″. This is normal, so do not let air out of the tyres to match the recommended cold air pressures given below. If you do, the tyres will be under-inflated.

The recommended "cold" tyre pressures are:

	Rider only	Rider and Pillion
Front	1.50 kgf/cm^2 (22 psi)	1.50 kgf/cm^2 (22 psi)
Rear	2.00 kgf/cm^2 (29 psi)	2.50 kgf/cm^2 (36 psi)

CAUTION

Over inflation/Under inflation will affect the performance.



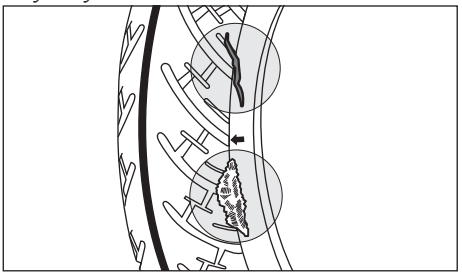
(1) Air pressure gauge

Inspection

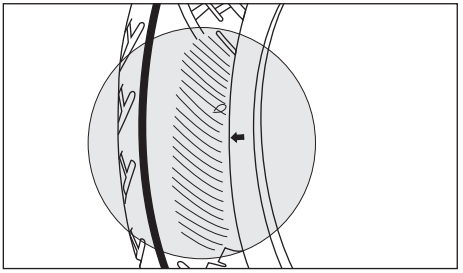
Whenever you check the tyre pressure, you should also examine tyre treads & side walls for wear, damage & foreign objects.

Look for:

- Bumps or bulges in the side of the tyre or the tread. Replace the tyre if you find any bumps or bulges.
- Cuts, splits or cracks in the tyre. Replace the tyre if you can see fabric or cord.



- Excessive tread wear.



- Carefully inspect the tyres for any damage, if the vehicle hits a pothole or hard object.

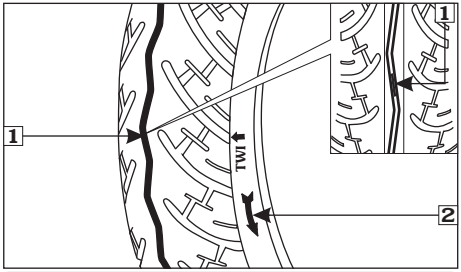
Tread wear

Replace tyres immediately when the wear indicator (1) appears on the tyre. The tread limits are :

Minimum tread depth:

Front: 1.0 mm **Rear:** 1.0 mm

Check the tread wear indicator for tyre wear.



(1) Tyre wear indicator **(2) Arrow mark**

Unidirectional tyres

Whenever the tyre is removed and put back in case of puncture, ensure the arrow mark (2) on the tyre is in the same direction as that of forward rotation of wheel.

Tyre repair

Repairing a puncture or removing a wheel requires special tools and technical expertise. If a tyre is punctured or damaged, it is advised to visit nearest tyre manufacture, Authorised Distributor/Dealer or the tyre repair shop who has expertise in repairing methods of tubeless tyre. A tyre that is repaired either temporarily or permanently, will have lower speed and performance limits than a new tyre. After an emergency repair, always have the tyre inspected/replaced at our authorised dealer and replace the tyre if suggested. You should not exceed 70 km/hour for the 1st 24 hours or 105 km/hour at any time thereafter. In addition, you may not be able to safely carry as much load as with a new tyre. If you decide to have a tyre replace be sure the wheel is balanced before you ride.

Tyre replacement

The tyres that were installed on your vehicle were designed to match the performance capabilities of your vehicle and provide the best combination of handling, braking, durability and comfort.

WARNING

- ***Operation with excessively worn tyres is hazardous and will adversely affect traction and handling.***
- ***Under-inflation may result in the tyre slipping on or tyre coming off the rim.***
- ***Always use the size and type of tyres recommended in this owner's manual.***

The recommended tyre for your vehicle are:
Front : 90/90-12 54J (Tubeless tyre)
Rear : 90/100-10 53J (Tubeless tyre)

NOTE

For repair and replacement of tyre it is advised to visit your Authorised Distributor/Dealer.

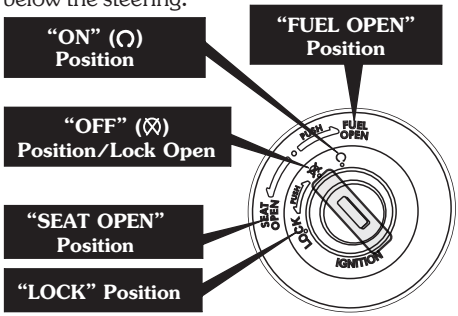
Important safety reminders

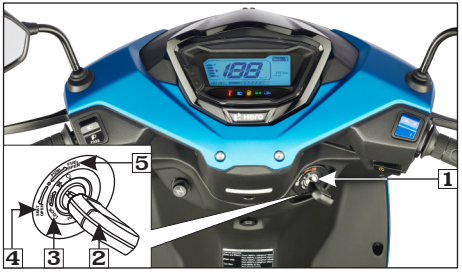
- Do not install a tube inside a tubeless tyre on this vehicle. Excessive heat buildup can cause the tube to burst.
- Use only tubeless tyres on this vehicle. The rims are designed for tubeless tyres and during hard acceleration or braking, a tube-type tyre could slip on the rim and cause the tyre to rapidly deflate.

ESSENTIAL INDIVIDUAL COMPONENTS

Ignition switch

The ignition switch (1) is on the right side below the steering.





(1) Ignition switch
(2) Ignition key
(3) Steering lock position
(4) Seat open
(5) Fuel open

Key Position	Function	Key removal
"ON" (○)	The LCD panel illuminates & initial display of multi function digital segments are displayed. The fuel gauge segment will swing to the maximum scale once and back to its normal position. The engine can be started. turn signal lamp, horn, tail/stop lamp, position lamp and fuel gauge will be functional. i3s indicator glows for 2 seconds.	Key cannot be removed
"OFF" (⊗)	Engine cannot be started and cannot be operated.	Key can be removed
"LOCK"	Steering can be locked by pushing the key in and rotating it counterclockwise.	Key can be removed
"SEAT OPEN"	Seat can be opened by rotating the key counterclockwise.	Key can be removed
"FUEL OPEN"	Fuel tank lid can be opened by pushing the key in and rotating it clockwise.	Key can be removed

HANDLEBAR SWITCHES CONTROL

Left handlebar controls

1. Dimmer switch/Passing switch

Press the switch upwards for high beam " " and downwards for low beam " ". Press the switch to pass lamp position to operate the pass lamp.

2. Turn signal switch ( )

Shift the turn signal switch sideways for right/left indications and leave it to come back to its normal position on its own.

IMPORTANT: To switch "OFF" the turn signal after completing the turn, gently push inside as directed on the switch.

3. Horn switch ( )

Press the horn switch to operate the horn.



(1) Dimmer switch/Passing switch
(2) Turn signal switch
(3) Horn switch

Right handlebar controls

1. Starter switch ( )

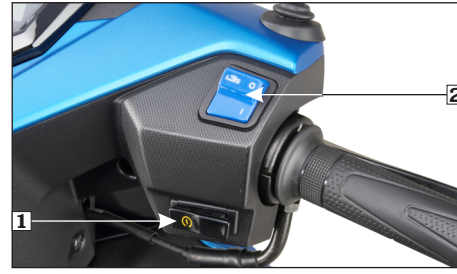
The starter switch (1) is next to the throttle grip.

When the starter switch is pressed, the starter motor cranks the engine. See **(page 50)** for the starting procedure.

NOTE

During electric & throttle start, the engine will turn off automatically, even though i3s switch is "ON" or "OFF":

- ***Engine reaches 900±100 r/min***
- ***The starter relay is engaged for more than 5 seconds.***



(1) Electric starter switch **(2) i3s switch**

2. i3s switch

There is an i3s switch (2) provided to enable the rider for turning i3s mode "ON" or "OFF" based on the traffic conditions.

FEATURES

(a) i3s (Idle stop start system)

Starting & Warm up the engine:

- Keep the i3s switch (1) to "OFF" position.
- Turn the ignition key to "ON" ( ) position.

- The i3s indicator (2) will glow on the speedometer console for 2 seconds and turn "OFF".



(1) i3s switch

- Start the engine and let it idle for 2-3 minutes.



(2) i3s indicator

NOTE

- ***The engine will stall if the i3s switch is in "ON" position during warm up.***
- ***Use choke during cold conditions.***

Initial activation of the i3s system:

- Keep the i3s switch (1) to "ON" position.
- Turn the ignition key to "ON" (Ω) position.
- The i3s indicator (2) on the speedometer console will glow for 2 seconds and turns "OFF".
- Put the vehicle in stand still condition on its main stand (Speedometer pointer is on 0 Km/h).
- Start the engine and allow it to run at idle r/min.

  Ensure that the r/min should not cross 2000.
- The engine will turn off in 30±1 secs. After the first stop start, every subsequent stop will be in 5±1 secs.
- In this condition, the engine can be restarted either with **brake & slight throttle**, brake & electric start or kick.

NOTE

- ***If for the first time vehicle is started and rider crosses 11km/h speed. After that, vehicle is kept in idle (Speedometer pointer is on 0 Km/h) then the engine will be turned "OFF" in 5±1 seconds.***
- ***To re-start the vehicle with i3s switch in "ON" position, apply brake & slight throttle. Vehicle will not start with sudden throttle.***

Driving with i3s switch in "ON" position:

If the engine is stopped by i3s and its remain in "OFF" condition for more than 500 secs then vehicle can only be started with brake & electric starter switch or kick.

Driving with i3s switch in "OFF" position:

While driving in very dense traffic where the vehicle has to encounter a stop and go situation, the i3s switch can be put to "OFF" position. Once this is done, the i3s system will not work and the vehicle will be in normal operating conditions as other vehicles and no special functions will be performed.

NOTE

- ***The i3s system will not function if rider puts the i3s switch to"OFF" position, immediately after starting the engine.***
- ***If the battery voltage is low, the i3s system will not work. The i3s indicator on the speedometer console will start to blink. The vehicle will be in normal operating conditions and no special functions will be performed. The rider can start vehicle by using kick.***
- ***If the vehicle is driven without battery or with the dead battery, the i3s system will not work. The i3s indicator on the speedometer console will start to glow continuously. The vehicle will be in normal operating conditions as other vehicles and no special functions will be performed. The rider can start vehicle by using kick.***

(b) Hero ride guide/Navigation Application:

Hero navigation application (1) is available in the google play store (for androids) or App Store (for iOS), which can be installed in your device to access bluetooth, incoming calls alerts, missed call alerts, mobile low battery alert, and navigation features.

NOTE

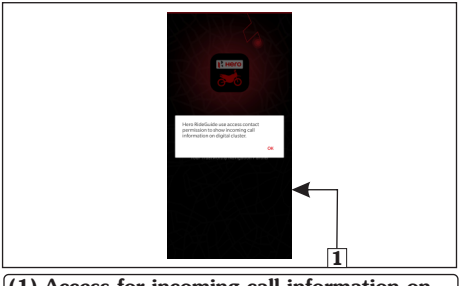
- ***Compatibility and performance of hero ride guide application may very based on your device and software version.***
- ***Application needs GPS signal, internet and bluetooth connectivity to perform the desired navigation functionality.***

Bluetooth:

Your vehicle is equipped with bluetooth connectivity feature by which you can pair your smartphone with the meter console of your **MAESTRO EDGE** vehicle through Hero navigation application.

To connect your device proceed as follows:

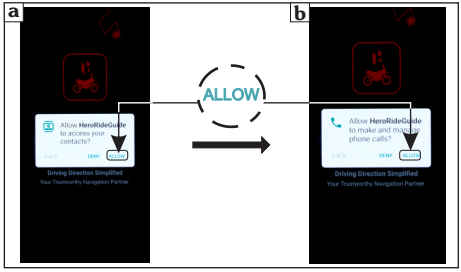
- Turn the ignition switch "ON".
- Open hero navigation application on your smartphone.
- Give access to show incoming call information on digital cluster (1).

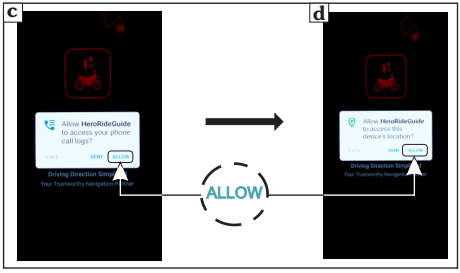


(1) Access for incoming call information on digital cluster

- For first time pairing, allow the application to access:

a. Contacts
b. Make & manage phone calls
c. Phone call logs on your device
d. Device's location if GPS is not enabled in your device



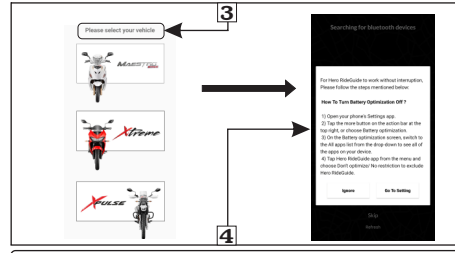


- Then the application will automatically start.
- Application also asks you to accept (2) the terms of use to proceed.



(2) Accept terms of use

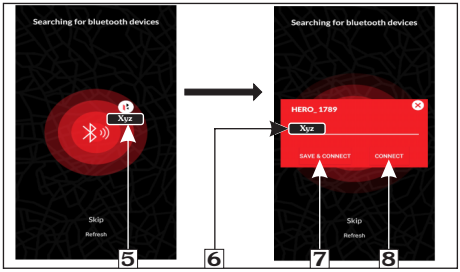
- Now select your vehicle (3).
- Now application asks the user to turn the battery optimization off (4). It can be done by following the steps which are mentioned in the application or the user can ignore this step.



(3) Select your vehicle
(4) Battery optimization

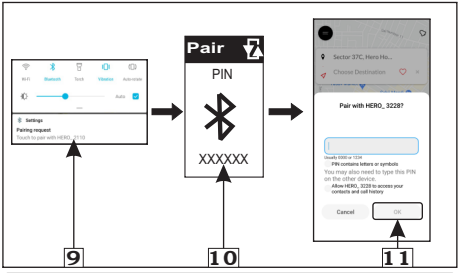
- The application searches for a while and displays all nearby devices. Select the device with your name (5).

- Update your name (6) (if required) and select either save and connect (7) or connect (8) to proceed.



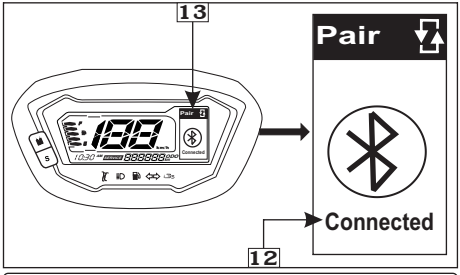
(5) Select your device (6) Update your name (7) Save and connect (8) Connect

- Now application will send paring request notification (9). Click on the notification.
- Now meter console will display paring pin (10).



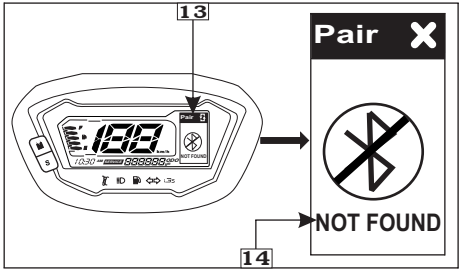
(9) Pairing request notification
(10) Pin **(11) "OK"**

- Now application will send paring request notification (9). Click on the notification.
- Now meter console will display paring pin (10).
- Enter the pin in navigation screen and select "OK" (11).
- On pairing, meter console displays "Connected" (12) below bluetooth symbol in bluetooth mode (13).

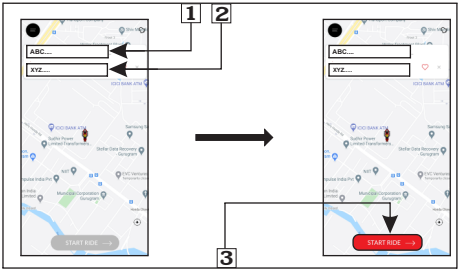


(12) Bluetooth connected
(13) Bluetooth mode

- If any error occurs during the course of pairing process, then meter console will display "Not found" (14) below bluetooth symbol. Repeat the above steps and keep your smartphone closer to the vehicle to reconnect.



(13) Bluetooth mode (14) Not found

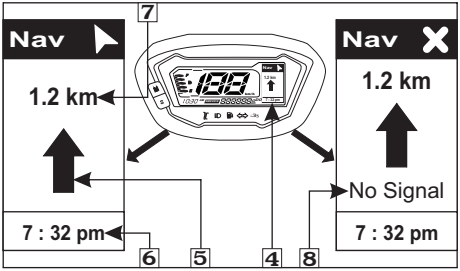


(1) Current location (2) Choose destination
(3) Start ride

Navigation:

To use navigation feature proceed as follows:

- Connect your vehicle with your hero ride guide/navigation application via bluetooth **(page 30).**
- After successful connection, the application and meter console display will automatically switch to navigation mode (4). It will also update your current location (1) through GPS system.
- Now choose your destination (2) through the application and select "start ride" (3).
- After processing for a while, meter console will display the direction (5), distance for next move (7) and estimated time of arrival (ETA) (6). Estimated time of arrival will be displayed in "am"or "pm". Hero navigation app and meter console of your vehicle will display step by step navigation guidance/ direction through navigation signs **(page 82).**



(4) Navigation mode (5) Direction (6) ETA
(7) Distance for next move (8) No signal

NOTE

At any point, if Navigation system loses signal, then it displays "No Signal" (8) on meter console when vehicle is in navigation mode.

WARNING

Navigation system assists you to reach your destination, don't be distracted while driving. Drive safely and always obey traffic rules.

Autopairing

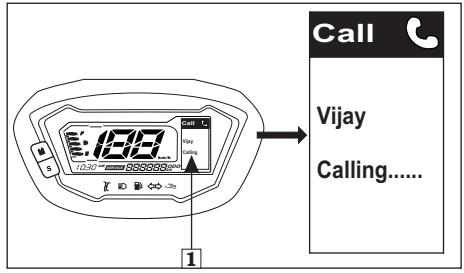
Your vehicle is equipped with autopairing feature by which if you turn ''OFF'' vehicle's ignition switch after successful pairing with hero navigation application, it will reconnect automatically once ignition switch is turned ''ON''.

NOTE

- ***Always keep your smartphone close to your vehicle during the course of pairing, autopairing and navigation.***
- ***Application need to be running in the background***

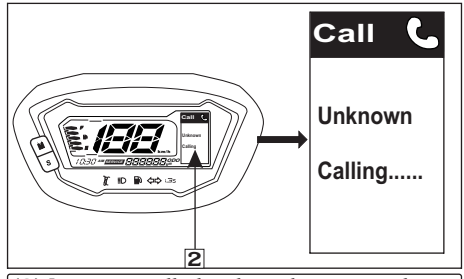
Incoming call alert

If your smartphone is paired with the meter console of your vehicle via bluetooth **(page 30)**, then you will get all the incoming calls alerts on the meter console. It will display the name of the caller for few seconds if it is stored in your compatible smartphone. For example: If caller's number is stored in your compatible smartphone by name of Vijay, then your meter console will display Vijay calling (1).



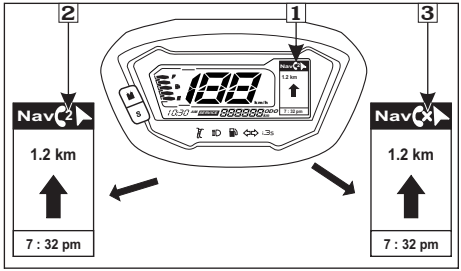
(1) Incoming call alert by name

If the number is not saved in your device by name or your device is an iOS, then it will display "unknown calling" (2).



(2) Incoming call alert by unknown number

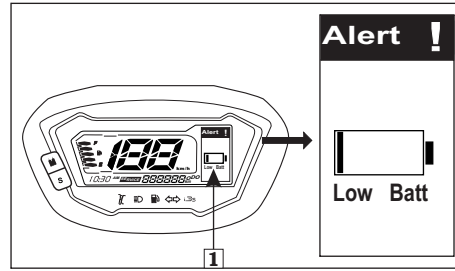
Missed call alert:
If your smartphone is paired with the meter console of your vehicle via bluetooth **(page 30)**, then you will get all the missed calls alerts (1) on the meter console.



(1) Missed call alert
(2) Number of missed call (1 to 9)
(3) Number of missed call (more than 9)

- If number of missed call are less than or equal to 9 then it will display number of missed calls as respective digit (2).
- If number of missed call are more than 9 then it will display as "X" (3).

Low battery alert:
A symbol of low battery alert (1) appears for few seconds on the meter console if the battery of your paired smartphone is too low.

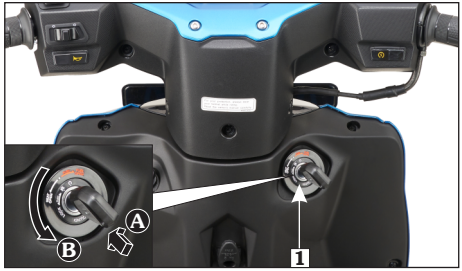


(1) Low battery alert

(c) Steering lock
To lock the steering, turn the handle bar all the way to the left, turn the key (1) to "LOCK" position while pushing in and remove the key.

! CAUTION

Do not try to turn the key to "LOCK" position while riding the vehicle, which may lead to loss of vehicle control.



(1) Ignition switch (A) Push in (B) Turn to lock



(1) Ignition switch (2) Ignition key

(d) Fuel tank lid lock

The fuel tank lid lock is provided along with ignition switch (1).

To open the lid, insert the key (2) while pushing in and turn it clockwise to "FUEL OPEN" position. The lid will release from its latch.

To lock the lid push down gently until it locks and hear a click sound to ensure the fuel tank lid is secure before riding.

! CAUTION

Gently close the lid by hand. Sudden dropping of the lid may result in breaking the lid lock and malfunction of the lock.

(e) Seat lock

The seat lock is provided along with the ignition switch (1).

To open the seat, insert the key (2) and turn it counterclockwise to "SEAT OPEN" position. The seat will release from its catch.

To lock the seat, close and push down on the rear of the seat until locks.

Make sure the seat is secure before riding.

! CAUTION

Gently close the seat by hand. Sudden dropping of the seat may result in breaking the seat lock and malfunction of the lock.

(f) Helmet holder

Two helmet holders are located under the seat.

To access the holder or to secure a helmet to the holder.

- Open the seat.
- Attach/Hook the helmet strap or ring to the helmet holder and close the seat.



(1) Helmet holder

To release the helmet from the holder.

- Open the seat.
- Remove the helmet from the holder and close the seat.

WARNING

- ***Riding with a helmet attached to the holder can interfere with the objects and could cause a loss of control/crash in which you can be seriously hurt.***
- ***Use the helmet holder only while parked. Do not ride with a helmet secured by the holder.***

NOTE

Place the helmet inside the center compartment if you wish to carry along with the vehicle.

(g) Center compartment

The center compartment (1) is below the seat. For opening and closing the seat lock, see **(page 36)**.

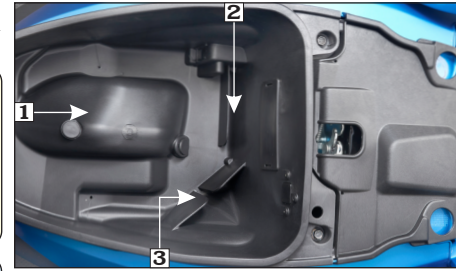
MAXIMUM WEIGHT LIMIT: 10 Kg

Never exceed the maximum weight limit, handling and stability may be severely affected. The center compartment may become heated by the engine. Do not store food and other articles which are flammable or susceptible to heat damage.

Do not direct pressurised water spray against the center compartment as water may enter into the compartment.

(h) Document compartment/Tool kit holder

The document compartment (2) and tool kit holder (3) is located in the center compartment below the seat.



(1) Center compartment (2) Document compartment (3) Tool kit holder

The owner's manual, other documents and tool kit can be stored in it.

NOTE

When washing your vehicle, be careful not to flood this area with water.



(3) Tool kit holder

CAUTION

Before the vehicle is pressure washed the items kept inside the center compartment should be removed to prevent consequential damage.

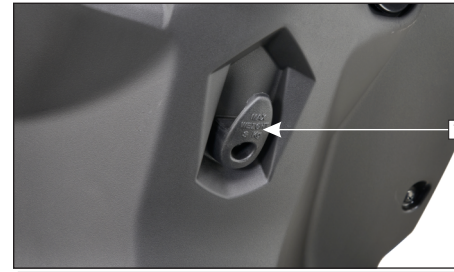
(i) Luggage hooks

Two luggage hooks are provided in your vehicle to carry a light luggage like shopping bags or carry bags.

Front luggage hook

Front luggage hook (1) is provided below the handlebar.

MAXIMUM WEIGHT LIMIT: 3.0 Kg

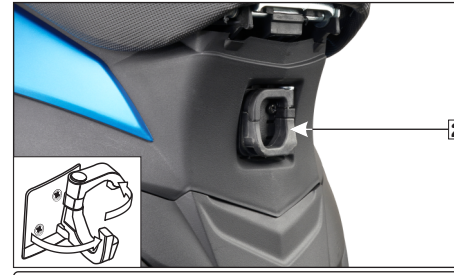


(1) Front luggage hook

Rear luggage hook

Rear luggage hook (2) is located below the front end of the seat. To use the hook, turn the hook from its position and open the hook by turning the upper lever as shown. The upper lever will close automatically. After using the hook, push it back to its position.

MAXIMUM WEIGHT LIMIT: 1.5 Kg



(2) Rear luggage hook

⚠ WARNING

- ***Do not exceed the maximum weight limits for the luggage hooks.***
- ***Do not hang large luggage to the hook that would hang out from the vehicle and or interfere with the movement of your feet.***

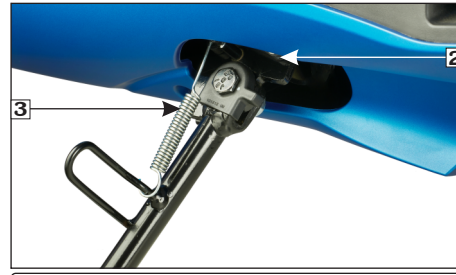
(j) Side stand/indicator/switch

For the safety of the customer a side stand indicator (1) is provided.



(1) Side stand indicator

A side stand switch (2) is provided in the side stand, when the side stand is down (Ignition switch "ON"), the switch enables the side stand indicator lamp to glow on the speedometer panel.



(2) Side stand switch (3) Side stand spring

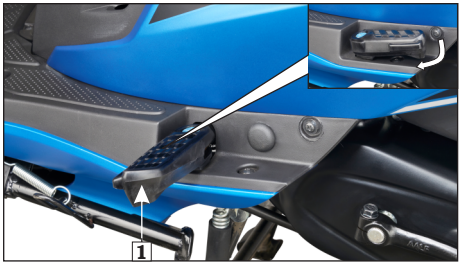
- Check the side stand for proper function and the spring (3) for damage or loss of tension and the side stand assembly for free movement.
- Check whether the side stand indicator (1) glows when the side stand is down.
- When the side stand is up, the side stand indicator (1) should not glow.
- If the side stand indicator (1) does not operate as described in above steps, please visit your Authorised Distributor/Dealer.

! CAUTION

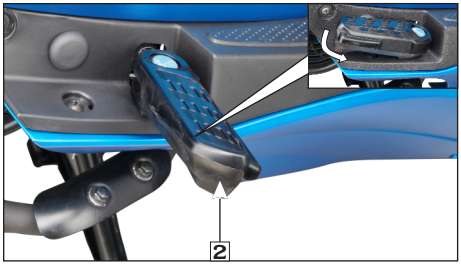
Ensure that adequate care should be taken while cleaning the side stand switch.

(k) Pillion footrest

Move the right and left footrest in the direction shown by arrows to open. Folding can be done by moving footrest in the reverse direction.



(1) Left footrest



(2) Right footrest

BODY PARTS REMOVAL

(a) Center compartment

Removal

- Open the seat **(page 36)**.
- Remove the bolts (1) from the center compartment.



(1) Bolts



(2) Center compartment

- Remove the center compartment (2).

Installation

Installation is in the reverse order of removal.

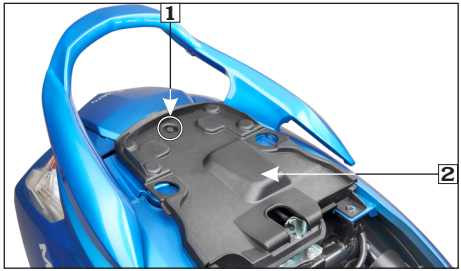
NOTE

Park the vehicle on its main stand when servicing the vehicle with the center compartment removed.

(b) Body cover

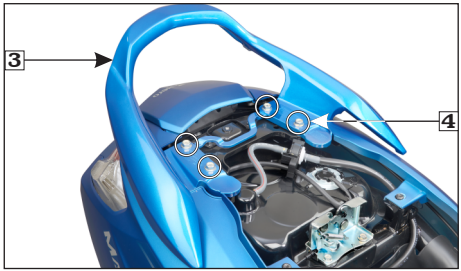
Removal

- Remove the center compartment **(page 40)**.
- Remove the fuel tray sub assembly bolt (1).
- Remove the fuel tray sub assembly (2).



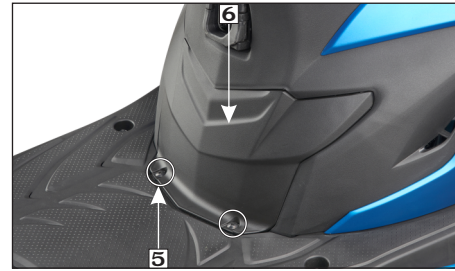
(1) Bolt **(2) Fuel tray sub assembly**

- Remove the rear grip (3) by removing its bolts (4).



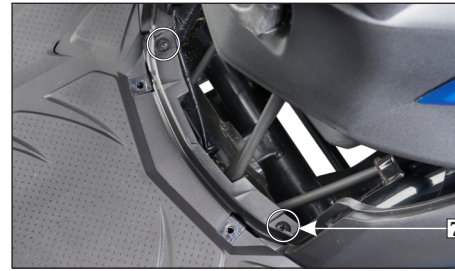
(3) Rear grip **(4) Bolts**

- Remove the screws (5) from the center cover.
- Remove the center cover (6).



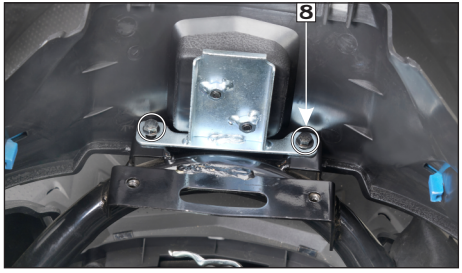
(5) Screws **(6) Center cover**

- Remove the screws (7).



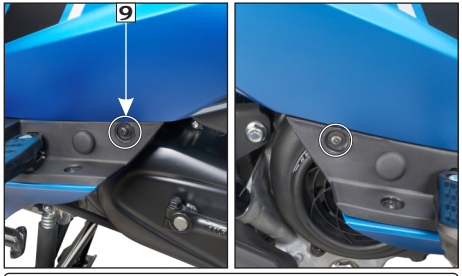
(7) Screws

• Remove the bolts (8).



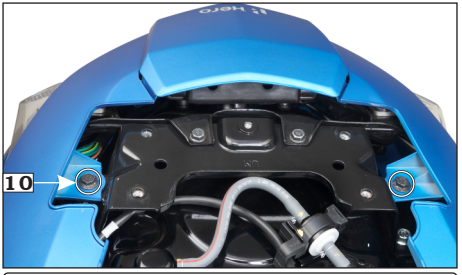
(8) Bolts

• Remove the screws (9) from left and right side of the body cover.



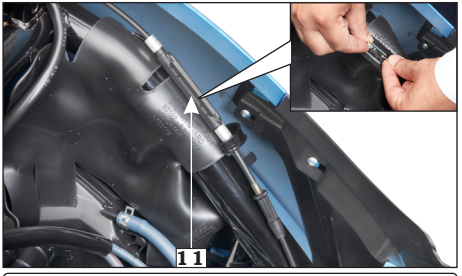
(9) Screws

• Remove the body cover bolts (10).



(10) Body cover bolts

• Disconnect the fuel tank lid lock cable (11).



(11) Fuel tank lid lock cable

• Remove the fuel filler cap **(page 22)**.

• Disconnect the tail/stop lamp connector (12).

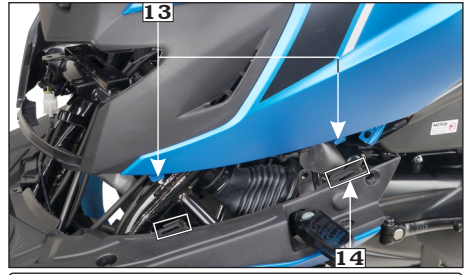


(12) Tail/stop lamp connector

• Release the body cover from its frame.

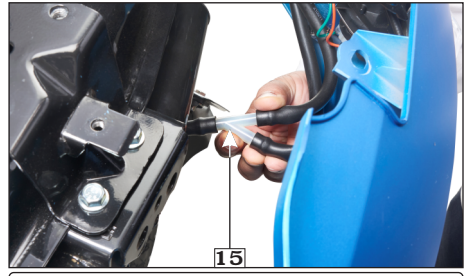


• Pull the body cover slightly backwards and release the tabs (13) from it slots (14) from both sides of the vehicle.



(13) Tabs **(14) Slots**

• Disconnect the drain tube from the joint (15).

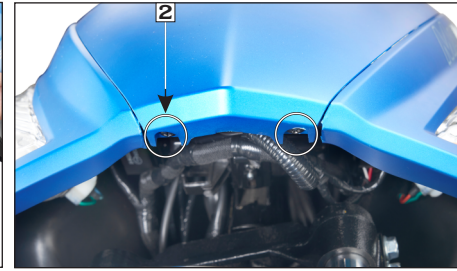


(15) Drain tube

• Remove the complete body cover (16).



(16) Body cover



(2) Screws

Installation

Installation is in the reverse order of removal.

(c) Front center cover

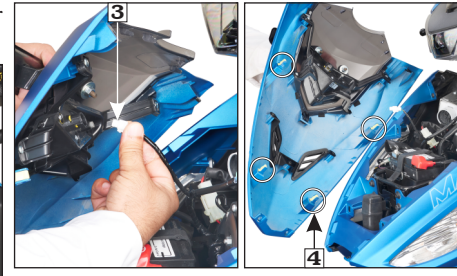
Removal

- Remove the two screws (1) on the inner cover side.



(1) Screws

- Remove the two screws (2) near the front fender.
- Disconnect the position lamp connector (3) and release the front center cover lugs (4) from the mounting clips. Remove the front center cover by pulling it axially downwards towards front.



(3) Position lamp connector (4) Lugs

NOTE

While removing the front centre cover, make sure to open the cover cautiously to avoid position lamp wire breakage.

Installation
Installation is in the reverse order of removal.

(d) Front cover

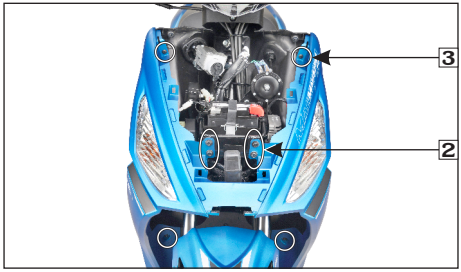
Removal

- Remove the front center cover **(page 44)**.
- Remove the six screws (1) from the inner cover side.



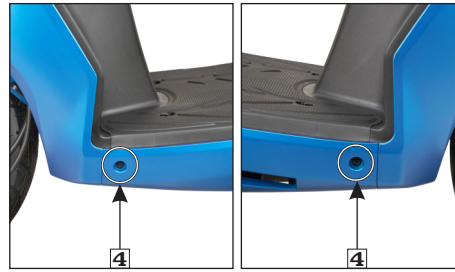
(1) Screws

- Remove the four bolts (2) from the front cover.



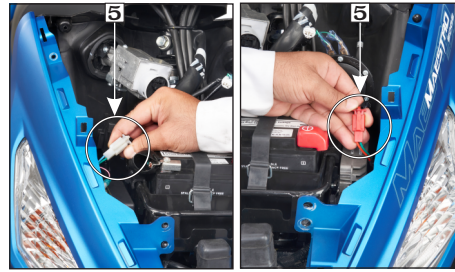
(2) Bolts **(3) Screws**

- Remove the top and bottom screws (3).
- Remove the screws (4) from the floor side covers.



(4) Screws

- Remove the front cover and disconnect the front turn signal lamp connectors (5).



(5) Front turn signal lamp connectors

Installation
Installation is in the reverse order of removal.

(e) Floor side cover

Right floor side cover

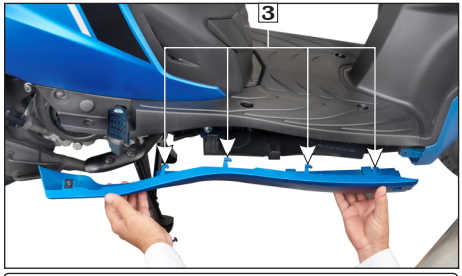
Removal

- Open the pillion footrest **(page 40)**.
- Remove the three screws (1) from right floor side cover (2).



(1) Screws **(2) Right floor side cover**

- To dislodge the tabs (3), slide the floor side covers to the rear side.



(3) Tabs

- Remove the right floor side cover.

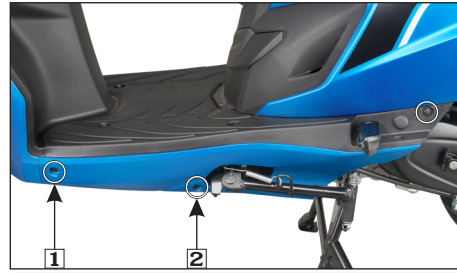
Installation

Installation is in the reverse order of removal.

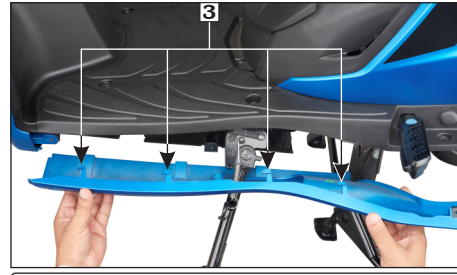
Left floor side cover

Removal

- Open the pillion footrest **(page 40)**.
- Remove the three screws (1) from left floor side cover (2).



(1) Screws **(2) Left floor side cover**

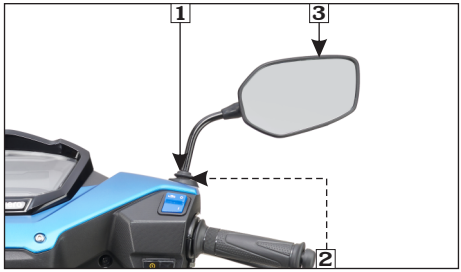


(3) Tabs

(f) Rear view mirror

Removal

- Slide the dust cover up (1).
- Loosen the lock nut (2) until it will no longer turn.
- Loosen the rear view mirror (3) and remove it.



(1) Dust cover (2) Lock nut
(3) Rear view mirror

Installation

- Install the rear view mirror until it will no longer turn.
- Loosen the rear view mirror approximately 2 turns.
- Adjust the rear view mirror.
- Tighten the lock nut.

NOTE

To open the right side rear view mirror the threads are to be loosened in clockwise direction and tightened in counter clockwise direction.

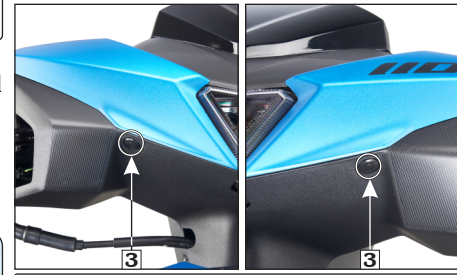
(g) Headlamp assembly

Removal

- Remove the rear view mirror **(page 47)**.
- Remove the top handlebar cover (1) by removing allen screws (2) and trim clips from both side (3).



(1) Top handlebar cover (2) Allen screws



(3) Trim clips

- Remove the speedometer visor (4) by removing its screws (5).



(4) Speedometer visor cover (5) Screws

- Remove the screw (6) from below the headlamp.

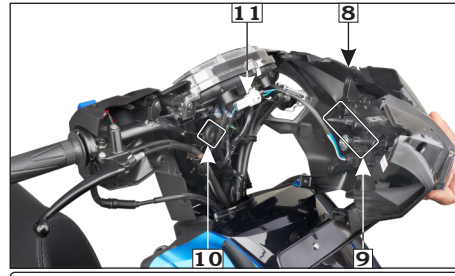


(6) Screw

- Remove the six screws (7) from the rear side.
- Pull the headlamp assembly (8) slightly up, carefully release the and lugs (9) from the grommets (10).
- Disconnect the headlamp connector (11) and remove the headlamp assembly.



(7) Screws



(8) Headlamp assembly (9) Lugs
(10) Grommets (11) Headlamp connector

Installation

Installation is in the reverse order of removal.

(h) Headlamp focus adjustment

Vertical adjustment

Headlamp focus is factory preset. However in case of adjustment required please follow the steps as given below.

- Park the vehicle on its main stand on a level surface in front of a wall.

- Turn the ignition switch to "ON" ( ) position and start the engine.
- Adjust the headlamp beam vertically by loosening the screw (1) and move the headlamp up (A) or down (B) for correct focus.



(1) Screw (A) Up (B) Down

WARNING

An improperly adjusted headlamp may blind oncoming driver or it may fail to light the road for safe distance.

PRE-RIDE INSPECTION

For your safety, it is very important to take a few moments before each ride to walk around your vehicle and check its condition. If you detect any problem, be sure you take care of it or have it corrected by your Authorised Distributor/Dealer.

WARNING

- ***Improper maintenance or failing to correct a problem before riding can cause a crash in which you can be seriously injured.***
- ***Always perform a pre-ride inspection before every ride and correct if any problem.***

- **Engine oil level**–Add engine oil if required **(page 68)**. Check for leaks.
- **Fuel level**–Ensure sufficient fuel is available in your fuel tank for journey **(page 19)**. Check for leaks.
- **Low fuel indicator**–Vehicle should not be operated with low fuel indicator glowing continuously **(page 19)**.
- **Front and Integrated brakes**–Check operation and if necessary, adjust free play **(page 20)**.
- **Tyres**–Check condition and pressure **(page 24)**.
- **Throttle**–Check for smooth opening and full closing in all steering positions.
- **Lamps and horn**–Check that headlamp, tail/stop lamp, turn signal lamps, indicators and horn function properly.
- **Rear view mirror**–Ensure that the rear view mirror gives a good rear view when you are sitting on the vehicle.
- **i3s switch**–Make sure whether the i3s switch is in "ON" or "OFF" position **(page 28)**.
- **i3s system**–Make sure that i3s system is functional properly **(page 28)**.

- **Fitting & fasteners**–Check & tighten if necessary.
- **Steering**–Check for smooth action for easy maneuverability.
- **Air suction valve**–Make sure all tubes connections are secured properly **(page 78)**.
- **Side stand indicator**–Make sure that the side stand is up. If it is in down position the side stand indicator **(page 39)** will glow on the speedometer panel.

ANTI–THEFT TIPS

- **Always lock the steering and never leave the key in the ignition switch.**
  This sounds simple but people do forget.
- Be sure the registration information for your vehicle is accurate and current.
- Park your vehicle in a locked garage whenever possible.
- Use an additional anti–theft device of good quality.
- Never park your vehicle in an isolated area. Park as far as possible in a designated parking area.
- Enter your name, address, and phone number in this Owner's Manual and keep it in your vehicle at all times. Many times stolen vehicles are identified by information in the Owner's Manuals that are still with them.

NAME : _____

ADDRESS : _____

_____

_____

_____

_____

_____

_____

_____

_____

PHONE NO : _____

STARTING THE ENGINE

Always follow the proper starting procedure described below. This vehicle has an automatic fuel valve and option to fit a side stand and side stand switch.

Operate the kick starter or electric starter switch for slightly longer than usual without opening the throttle if the vehicle has been left standing for a long time or when the fuel tank has just been refilled.

NOTE

During electric & throttle start, the engine will turn off automatically, even though i3s switch is "ON" or "OFF":

- ***Engine reaches 900±100 r/min***
- ***The starter relay is engaged for more than 5 seconds.***

Your vehicle's exhaust contains poisonous carbon monoxide gas. High levels of carbon monoxide can collect rapidly in enclosed areas such as a garage. Do not run the engine with the garage door closed. Even with the door open, run the engine only long enough to move your vehicle out of the garage.

! CAUTION

Do not attempt to start the engine and run the vehicle without a battery. This may lead to electrical and electronic components failure.

- Park the vehicle on its main stand.
- Lock the rear wheel by pressing the integrated brake lever (1) and locking the lever lock (2).



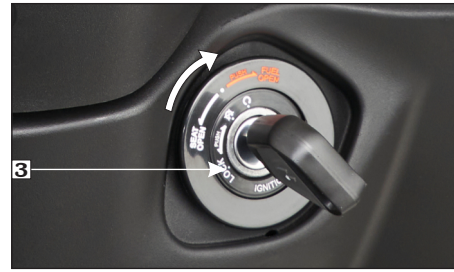
(1) Integrated brake lever (2) Lever lock

The electric starter will only work when the integrated or front brake lever is operated.

⚠ WARNING

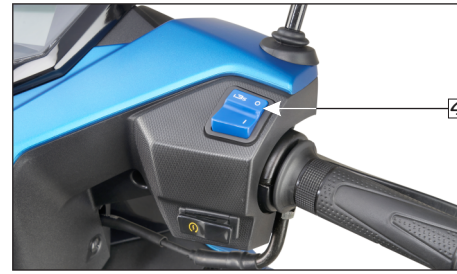
- ***Contact with the rotating rear wheel can injure you.***
- ***Set the lever lock when the vehicle is on its main stand.***

- Turn the ignition switch (3) to "ON".



(3) Ignition switch

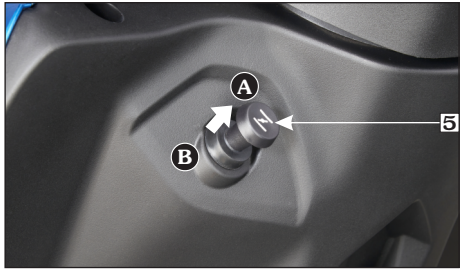
- Make sure whether the i3s switch (4) is in "ON" or "OFF" position.



(4) i3s switch

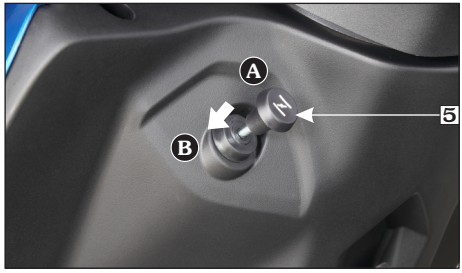
Cold engine

- Pull the choke knob (5) out all the way to fully "ON" position (A).



(5) Choke knob
(A) Fully "ON" **(B) Fully "OFF"**

- While using starter switch:
- With the throttle closed, press the starter switch.

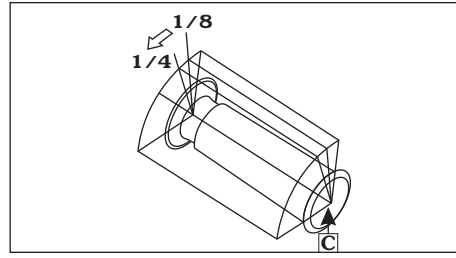


(5) Choke knob
(A) Fully "ON" **(B) Fully "OFF"**

- While using kick starter:
- With the throttle closed, operate the kick starter with a rapid and continuous motion.
- Continue warming up the engine until it runs smoothly and responds to the throttle, when the choke knob is at "OFF" position (B).

Warm engine

- Do not use the choke.
- Rotate the throttle 1/8–1/4 turn (C).
- Start the engine.



RUNNING-IN

Ensure your vehicle's future reliability and performance by paying extra attention to how you ride during the first 500 km.
During this period, avoid full-throttle starts and rapid acceleration.

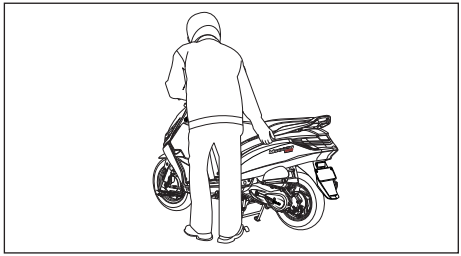
RIDING

Review vehicle safety **(page 4)** before you ride.

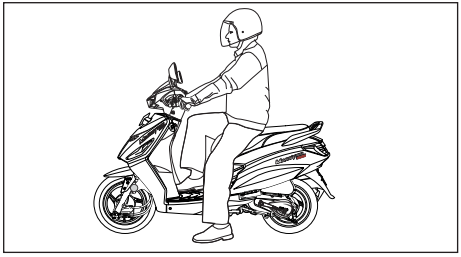
- **Make sure the throttle is closed and the integrated brake is locked** before moving the vehicle off the main stand.

The rear wheel must be locked when moving the vehicle off the main stand or it may result in loss of control.

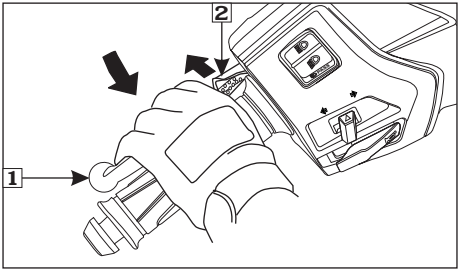
- **Stand on the left side of the vehicle** and push it forward off the main stand gripping below the seat using the right hand as shown.



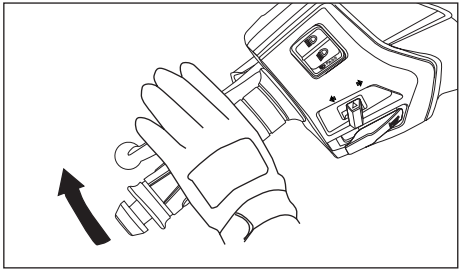
- **Mount the vehicle from the left side** keeping at least one foot on the ground to steady the vehicle.



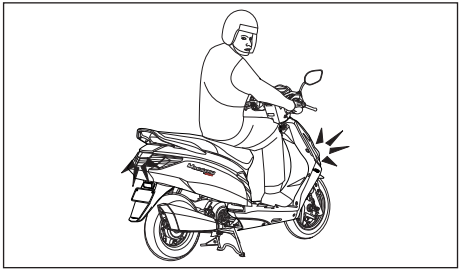
- **Unlock the integrated brake** by further pressing the integrated brake lever (1) so as to release the lever lock (2) from the lock. Then release the brake lever.



(1) Integrated brake lever (2) Lever lock

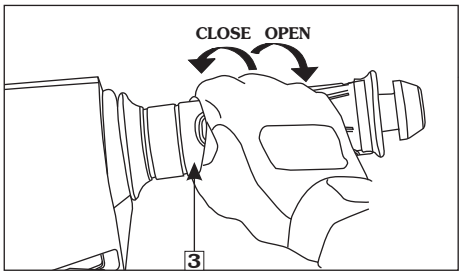


- **Before starting**, indicate your direction with the turn signals, and check for safe traffic conditions. Grab the handle bars firmly with both hands. Never attempt one-handed operation, this could lead to loss of vehicle control.



- **To accelerate,** open the throttle (3) gradually, the vehicle will move forward. Do not "BLIP" the throttle (open and close rapidly) as the vehicle will move forward suddenly, causing possible loss of control and loss of fuel economy.

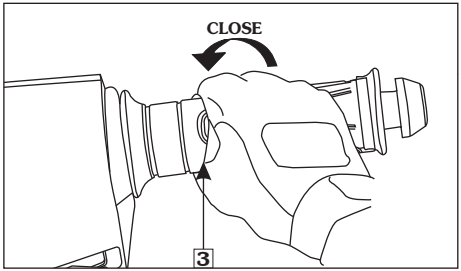
  Do not accelerate with the brakes applied, this may lead to premature wear of brakes and transmission parts.
- **To decelerate**, close the throttle.

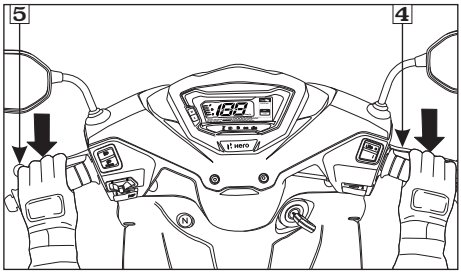


(3) Throttle

- **When slowing down the vehicle**, coordination of the throttle (3), front (4) and integrated brake (5) is most important. Since the vehicle is equipped with an integrated braking, by pressing the brake lever provided on the left side of the handlebar would ensure both front and rear brakes applied simultaneously.

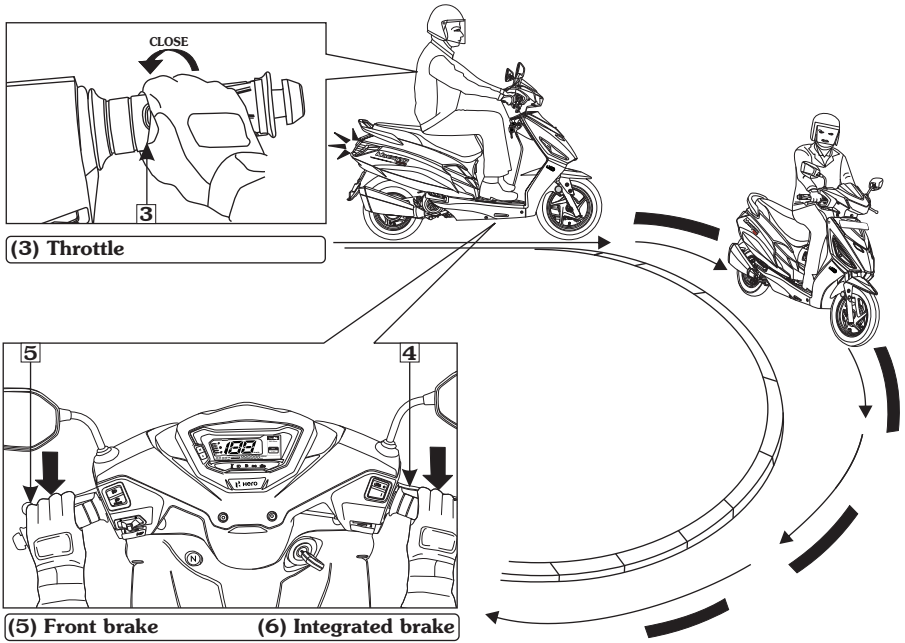
  Excessive brake application may cause the wheels to lock, reducing control over the vehicle.





(4) Front brake **(5) Integrated brake**

- **When approaching a corner or turn**, close the throttle (3) fully, and slow down the vehicle by applying integrated brake (6).
- **After completing the turn**, open the throttle gradually to accelerate the vehicle.

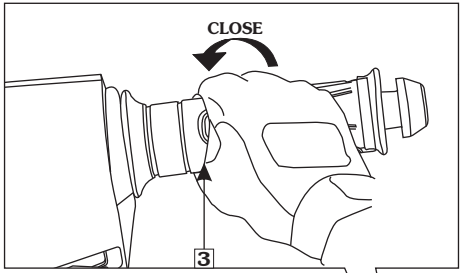


(3) Throttle

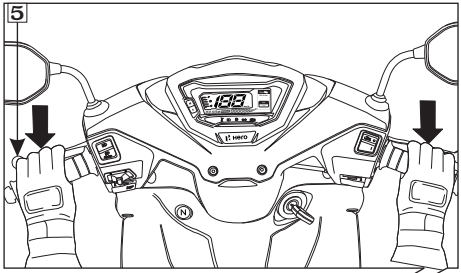
(5) Front brake **(6) Integrated brake**

- **When descending a steep gradient**, close throttle (3) fully and apply integrated brake (4) to slow down the vehicle.

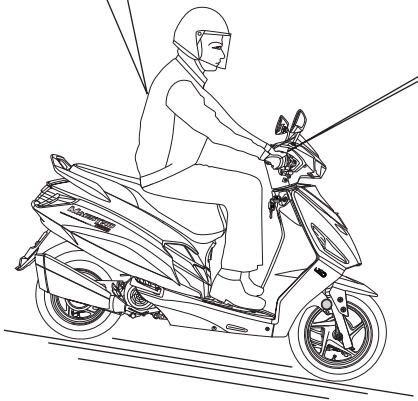
Avoid continuous use of the brakes, which may result in overheating and reduction of braking efficiency.



(3) Throttle



(4) Integrated brake



- **When riding on wet or loose surfaces, be cautious.**
  When riding in wet or rainy conditions or on loose surfaces, the ability to manoeuvre and stop will be reduced.

For your safety:

- Exercise extreme caution when braking, accelerating or turning.
- Ride at slower speeds and allow for extra stopping distance.
- Keep the vehicle as upright as possible.
- Be cautious when riding over slippery surfaces such as railway tracks, iron plates, manhole covers, painted lines, etc.

PARKING

- After stopping the vehicle turn the ignition switch to "OFF" position.
- Use the main stand to support the vehicle while parked, lock and remove the key.

NOTE

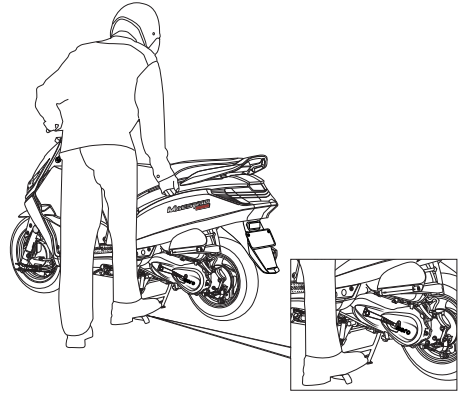
- ***Park the vehicle on firm, level surface to prevent it from falling over.***
- ***If you must park on a slight incline, aim the front of the vehicle uphill to reduce the possibility of rolling off the main stand or overturning.***

- Lock the steering to prevent theft.

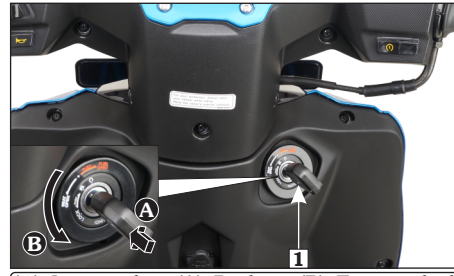
! CAUTION

The exhaust pipe and muffler become very hot during operation and remain sufficiently hot to inflict burns if touched even after turning off the engine.

HOW TO USE MAIN STAND



STEERING LOCK



(1) Ignition key (A) Push in (B) Turn to lock

TOOL KIT

The tool kit (1) is located in the center compartment (2).

Some roadside repairs, minor adjustments and parts replacement can be performed with the tools available in the kit.

- Tool bag
- +,–No. 2 driver
- Grip
- Wrench plug 16 mm
- Spanner 14 mm



(1) Tool kit **(2) Center compartment**

CLEANING OF VEHICLE

Clean your vehicle regularly to protect the surface finishes and inspect for damage, wear and oil leakage.

Avoid cleaning products that are not specifically designed for vehicle or automobile surfaces. They may contain harsh detergents or chemical solvents that could damage the metal, paint and plastic parts on your vehicle.

If your vehicle is still warm from recent operation, give time for the engine and exhaust system to cool down.

We recommend avoiding the use of high pressure water spray.

! CAUTION

- ***We at workshop take all above mentioned precautions like recommended detergents and usage of muffler caps/plugs during wash to ensure quality wash.***
- ***High pressure water (or air) can damage certain parts of the vehicle.***

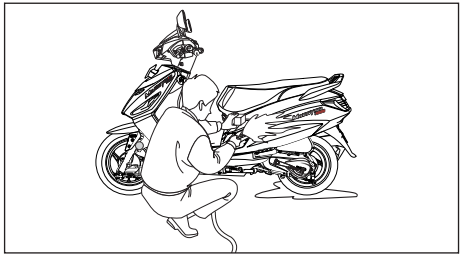
WASHING OF VEHICLE

- Rinse the vehicle thoroughly with water to remove loose dirt.
- Clean the vehicle with a sponge or soft cloth using water.
- Avoid directing water to muffler outlets and on electrical parts.
- Clean the plastic parts using a cloth or sponge dampened with a solution of mild detergent and water. Rub the soiled area gently rinsing it frequently with fresh water.

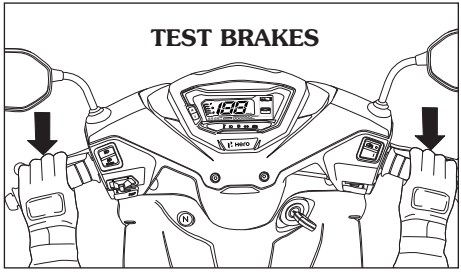
NOTE

- ***Take care to keep brake fluid or chemical solvents off the vehicle. They will damage the plastic and painted surfaces.***
- ***The inside of the headlamp lens may be clouded immediately after washing the vehicle. Moisture condensation inside the headlamp lens will disappear gradually by lighting the headlamp in high beam.***

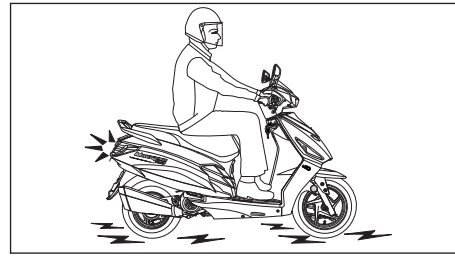
- After cleaning, rinse the vehicle thoroughly with plenty of clean water. Strong detergent residue can corrode alloy parts.
- Dry the vehicle with pressurized air, start the engine and let it run for several minutes.



- Test the brakes before riding the vehicle. Several applications may be necessary to restore normal braking performance.



- Braking efficiency may be temporarily impaired immediately after washing the vehicle.
- Anticipate longer stopping distance to avoid a possible accident.



MAINTENANCE

Importance of maintenance

A well-maintained vehicle is essential for safe, economical and trouble-free riding. It will also help reduce air pollution.

To help you to take proper care for your vehicle, the following pages include a maintenance schedule and a maintenance record for regular scheduled maintenance.

These instructions are based on the assumption that the vehicle will be used exclusively for its designed purpose.

Sustained high speed operation or operation in unusually wet or dusty conditions will require more frequent service than specified in the maintenance schedule. Consult your Authorised Distributor/Dealer for recommendations applicable to your individual needs and use. If your vehicle overturns or gets involved in an accident, be sure your Authorised Distributor/Dealer inspects all major parts, even if you are able to make some repairs.

⚠ WARNING

- ***Improperly maintaining this vehicle or failing to correct a problem before you ride can cause an accident in which you can be seriously injured.***
- ***Always follow the inspection and maintenance recommendations and schedules in this owner's manual.***

Maintenance safety

This section includes instructions on some important maintenance tasks. You can perform some of these tasks with the tools provided (if you have basic mechanical skills).

Other tasks that are more difficult and require special tools are best performed by professionals.

It is recommended that wheel removal should normally be handled by a Authorised Distributor/Dealer.

You will come across some of the most important safety precautions in the following pages of this manual.

However, we cannot warn you of every conceivable hazard that can arise in performing maintenance. Only you can decide whether or not you should perform a given task.

⚠ WARNING

- ***Failure to follow maintenance instructions and precautions properly can seriously injure you.***
- ***Always follow the procedures and precautions in this owner's manual.***

SAFETY PRECAUTIONS

- Make sure the engine is "OFF" before you begin any maintenance or repair. This will help to eliminate several potential hazards:
  - **Carbon monoxide poisoning from engine exhaust.**
    Be sure there is adequate ventilation whenever you operate the engine.
  - **Burns from hot parts.**
    Let the engine and exhaust system cool before touching.
  - **Injury from moving parts.**
    Do not run the engine unless instructed to do so.
- Read the instruction before you begin and make sure you have the tools and skills required.
- To help prevent the vehicle from falling over, park it on a firm, level surface on the main stand.
- To reduce the possibility of a fire or explosion, be careful when working around petrol or batteries. Use only nonflammable solvent, not petrol, to clean parts. Keep cigarettes, sparks and flames away from the battery and all fuel-related parts.

Remember that your Authorised Distributor/Dealer knows your vehicle best and is fully equipped to maintain and repair it.

To ensure best quality and reliability, use only new Genuine Parts for repair and replacement.

MAINTENANCE SCHEDULE

Perform the pre-ride inspection **(page 49)** at each scheduled maintenance period.

I: INSPECT C: CLEAN R: REPLACE A: ADJUST L: LUBRICATE T: TOP UP

E: EMISSION CHECK

The following maintenance schedule specifies all maintenance required to keep your vehicle in peak operating condition. Maintenance work should be performed in accordance with standards and specifications of HMCL Niloy Bangladesh Ltd. by properly trained and equipped technicians. Your Authorised Distributor/Dealer meets all of these requirements.

Ensure that each paid service is availed within 90 days or 3000 km from the date of previous service, whichever is earlier.

- To be serviced by your Authorised Distributor/Dealer unless the owner has the relevant tools, technical information and is technically qualified.
- In the interest of safety, we recommend that these jobs are carried out only by your Authorised Distributor/Dealer.

Note-1 : At higher odometer readings, repeat the frequency interval established here.

Note-2 : Throttle play to be checked and adjusted as per given specification.

Note-3 : Replace air cleaner element once in every 15000 km or early replacement may be required when riding in dusty areas.
*At 12000 km inspect if air cleaner element (viscous type) is choked. If found choked, replace the air cleaner element to keep the engine healthy.
*Replace at any point of time, if pre foam and viscous element found damaged.

Note-4 : Service more frequently when riding in rain or at full throttle.

Note-5 : Replace once in every 12000 km.

Note-6 : Replace engine oil once in every 6000 km. Top up if the oil level is at or near the lower level mark.

Note-7 : Replace once in every 10000 km or once in a year, whichever is earlier. Replacement requires mechanical skill.

Note-8 : Clean carburetor if required after inspection during service.

Note-9 : Service more frequently if the vehicle is ridden in unusually wet or dusty areas.

Note-10: Replace the pinion starter assembly once in every 2 years or 21000 km, whichever is earlier.

Note-11: Replace drive belt once in every 24000 km.

Note-12: Replace the front fork oil once in every 2 years or 20000 km, whichever is earlier.

Note-13: Inspect for any play in the mounting bushes, replace if necessary.

Note-14: Inspect the bearings free play, replace if necessary.

Note-15: Check idle CO emission along with idle r/min/idle CO adjustment (if required).

MAINTENANCE SCHEDULE

Dear Customer,

We would strongly recommend the following schedule, to keep your vehicle in perfect running condition and healthy environment. vehicle subjected to severe use or ridden in dusty area will require more frequent servicing.

	ITEMS	SERVICE	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th
		DAYS	1st 60	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90
		KM NOTE-1	500-750	3000-3500	6000-6500	9000-9500	12000-12500	15000-15500	18000-18500	21000-21500	24000-24500	27000-27500	30000-30500
	Fuel Lines		I	I	I	I	I	I	I	I	I	I	I
	Throttle Operation	Note-2	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A
	i3s System/Switch		I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A
	Fuel Lid Cover Operation		I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A
	Choke Operation		I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A
	Air Cleaner Element (Pre foam type)	Note-3		I, C	I, C	I, C	I, R*	R	I, C	I, C	I, C	I, R*	R
	Air Cleaner Element (Viscous type)	Note-3		I	I	I	I, R*	R	I	I	I	I, R*	R
	Drain/Crankcase Breather Tube	Note-4	I, C	I, C	I, C	I, C	I, C	I, C	I, C	I, C	I, C	I, C	I, C
	Spark Plug	Note-5	I, C, A	I, C, A	I, C, A	I, C, A	R	I, C, A	I, C, A	I, C, A	R	I, C, A	I, C, A
	Valve Clearance		I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A
	Engine Oil	Note-6	R	T	R	T	R	T	R	T	R	T	R
	Engine Oil Strainer Screen		C		C		C		C		C		C
	Final Drive Oil	Note-7				R		Replace once in every 10000 km					
	Carburetor/ Engine Idle Speed	Note-8	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A
	Secondary Air Injection System				I		I		I		I		
	Secondary Air Cleaner Element	Note-9	C	C	C	C	C	C	C	C	C	C	C
	Brake System		C, L	C, L	C, L	C, L	C, L	C, L	C, L	C, L	C, L	C, L	C, L

	ITEMS	SERVICE	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th
		DAYS	1st 60	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90
		KM Note-1	500-750	3000-3500	6000-6500	9000-9500	12000-12500	15000-15500	18000-18500	21000-21500	24000-24500	27000-27500	30000-30500
	Front/Integrated Brake Lever Free Play		I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A
	Brake Shoe Wear		I	I	I	I	I	I	I	I	I	I	I
	Lever Lock Operation		I	I	I	I	I	I	I	I	I	I	I
	Battery Voltage		I	I	I	I	I	I	I	I	I	I	I
	Stop Lamp Switch		I	I	I	I	I	I	I	I	I	I	I
	Headlamp Focus		I	I	I	I	I	I	I	I	I	I	I
	Belt Case/Kick Starter Driven Gear		C, L	C, L	C, L	C, L	C, L	C, L	C, L	C, L	C, L	C, L	C, L
	Pinion Starter Assembly	Note-10				I			I	R		I	
	Drive Belt	Note-11			I		I		I		R		I
	Clutch Shoe Wear				I		I		I		I		I
	Nuts, Bolts & Fasteners		I	I	I	I	I	I	I	I	I	I	I
	Front Suspension/Oil	Note-12	I	I	I	I	I	I	I	I	I	I	I
	Rear Suspension	Note-13	I	I	I	I	I	I	I	I	I	I	I
	Wheel/Tyres		I	I	I	I	I	I	I	I	I	I	I
	Wheel Bearings	Note-14	I	I	I	I	I	I	I	I	I	I	I
	Steering Head Bearings		I, A	I, A	I, A	I, A	I, L, A	I, A	I, A	I, A	I, L, A	I, A	I, A
	Main Stand		L	L	L	L	L	L	L	L	L	L	L
	Side Stand		L	L	L	L	L	L	L	L	L	L	L
	Side Stand Switch		I, C	I, C	I, C	I, C	I, C	I, C	I, C	I, C	I, C	I, C	I, C
	Muffler (Catalytic Converter)	Note-15			I, E		I, E		I, E		I, E		I, E

AIR CLEANER ELEMENT

Refer to the safety precautions **(page 60)**.

The air cleaner element is of pre foam and viscous type, it should be replaced at regular intervals **(pages 61)**. Early replacement may be required when riding in unusually wet or dusty areas.

Removal

- Remove the body cover **(page 41)**.
- Remove the air cleaner cover (1) by removing the screws (2)

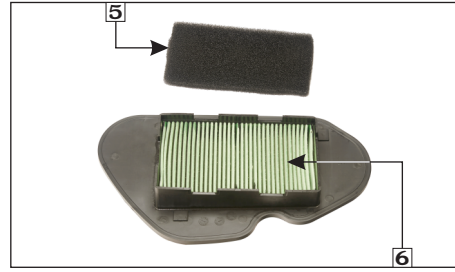


(1) Air cleaner cover screws
(2) Air cleaner cover

- Remove the air cleaner element holder component (3) from air cleaner sub assembly case (4).
- Separate the pre foam element (5) from the air cleaner assembly.



(3) Air cleaner element holder component
(4) Air cleaner sub assembly case

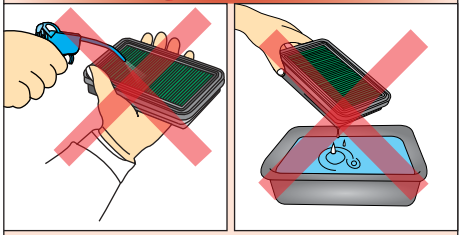


(5) Pre foam element
(6) Viscous air cleaner element

Viscous air cleaner element inspection

- Inspect the viscous air cleaner element (6) for any dust or dirt accumulation.
- Replace the element, if found choked. Refer maintenance schedule **(page 61)**.

CAUTION



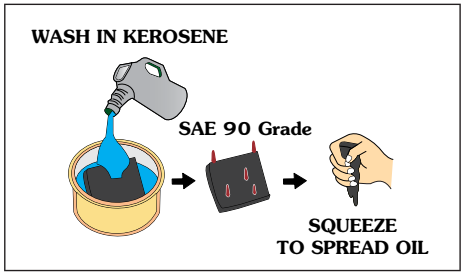
- ***Do not blow compressed air.***
- ***Do not wash using any solvent.***

Pre foam element

The pre foam element should be serviced at regular intervals **(page 61)**. Service more frequently when riding in unusually wet or dusty areas.

Cleaning

- Wash the pre foam element in kerosene.
- Spread 5ml (4 to 5 drops) of SAE 90 grade at different locations on pre foam element.



- Squeeze it in a manner so that oil will spread on complete surface of pre foam element.

CAUTION

Do not wring the filter element with both hands.

NOTE

- ***Replace air cleaner element once in every 15000 km or early replacement may be required when riding in dusty areas.***
- ***At 12000 km inspect if air cleaner element (viscous type) is choked. If found choked, replace the air cleaner element to keep the engine healthy.***
- ***Replace pre foam element or viscous element at any point of time, if found damage.***

Installation

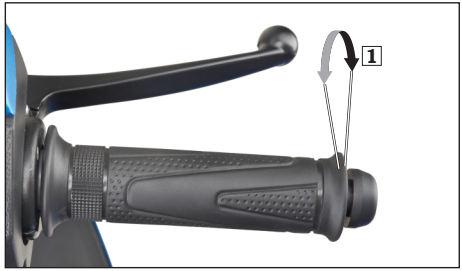
- Clean the air cleaner sub assembly case (4) using a shop towel.
- Install the pre foam element.
- Install the air cleaner element holder component (new, in case of replacement).
- Install the air cleaner cover.
- Install the body cover **(page 44)**.

THROTTLE OPERATION

Cable inspection

Check for smooth rotation of the throttle grip from the fully open to the fully closed position. Check at full left and full right steering positions. Inspect the condition of the throttle cable from the throttle grip down to the carburetor. If the cable is kinked, chafed or

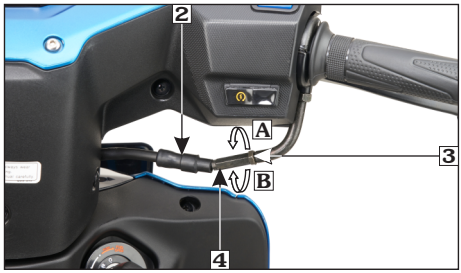
improperly routed, it should be replaced or rerouted. Standard throttle grip free play (1) is approximately 2-6 mm of grip rotation.



(1) Free play: 2-6 mm

Free play adjustment

Slide the boot (2), loosen the lock nut (3) and turn the adjuster (4).



(2) Boot (3) Lock nut (4) Adjuster
(A) Decrease free play (B) Increase free play

i3s THROTTLE SWITCH ADJUSTMENT

While starting the vehicle with i3s switch "ON" condition and by rotating throttle grip inspect the following:

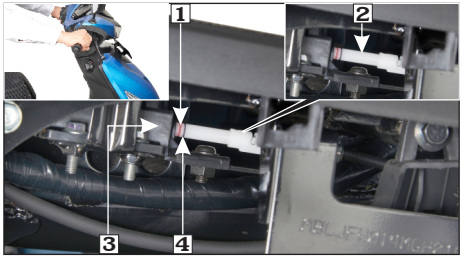
(i) Start of the vehicle with more travel of throttle.

(ii) Start of the vehicle within free play or no engine "OFF" condition in idling.

If any of the above situations arises then adjustment should be made on the i3s adjuster as per below steps.

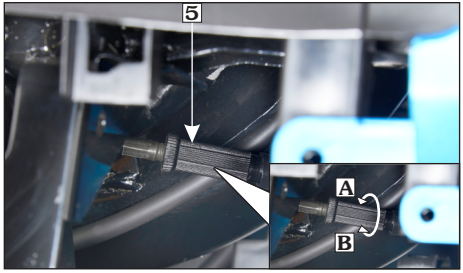
For situations (i) & (ii), follow the steps below:

- Park the vehicle on its main stand.
- First, adjust the throttle free play **(page 65)**. Free play to be maintained in **0-3 mm**.
- Check i3s functionality if found not OK follow the further instructions.
- Remove the right floor side panel **(page 46)**.
- Open the throttle fully.
- Check the painted groove (highlighted red line (1)) available on i3s switch plunger (2) (outer surface of i3s switch body (3)).
- Black painted groove (4) should be visible on the plunger and no visibility of red groove (1) implies that condition is OK.



(1) Red line **(2) i3s switch plunger**
(3) i3s switch body **(4) Black line**

- To achieve the startability of vehicle, adjust the throttle movement (approx. **3–5 mm**) on i3s adjuster (5) in clockwise/anticlockwise directions.



(5) i3s adjuster
(A) Clockwise: Increase free play
(B) Anticlockwise: Decrease free play

NOTE

Optional check: red paint mark is not visible and only black mark is visible. This to be reconfirmed after adjustment.

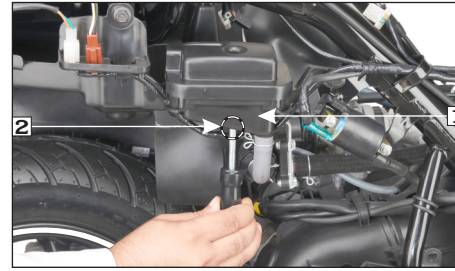
SECONDARY AIR SUPPLY SYSTEM

Refer to the safety precautions **(page 60)**.

Secondary air cleaner element cleaning

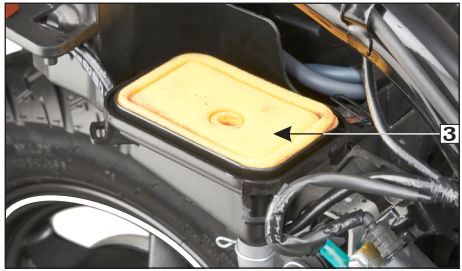
The air cleaner element should be serviced at regular intervals **(page 61)**. Service more frequently when riding in unusually wet or dusty areas.

- Remove the body cover **(page 41)**.
- Remove the air cleaner element housing cover (1) by removing the screw (2).



(1) Air cleaner element housing cover
(2) Screw

- Remove the air cleaner element (3).
- Wash the air cleaner element in clean, nonflammable or high flash point solvent and let it dry thoroughly.



(3) Air cleaner element

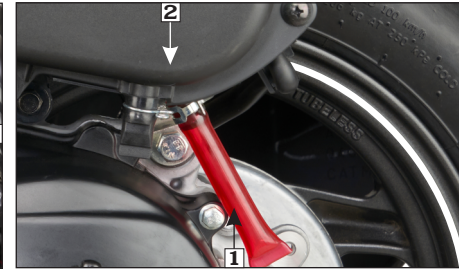
- Soak the air cleaner element in gear oil (SAE-90) until saturated, then squeeze out the excess oil.
- Install the removed parts in the reverse order of removal.

! CAUTION

Never use gasoline or low flash point solvents for cleaning the air cleaner element. A fire or explosion could result.

DRAIN TUBE

- Refer to the safety precautions **(page 60)**.
- Remove the drain tube (1) from the air cleaner assembly (2) and drain deposits in to a suitable container.
- Reinstall the drain tube.
- Service more frequently when riding in rain, at full throttle or after the vehicle is washed or overturned. Service if the deposit level can be seen in the transparent section of the drain tube.



(1) Drain tube **(2) Air cleaner assembly**

ENGINE OIL

Use only genuine engine oil.

BRAND : Hero 4T plus

GRADE : SAE 10W 30 SL Grade (JASO MB).

Manufactured by:

- Tide Water Oil Co. (India) Ltd.
- Savita Oil Technologies Limited.
- Bharat Petroleum Corporation Limited.

Oil Capacity: 0.8 Litre

Engine oil level check

Check the engine oil level each day before riding the vehicle.

The level must be maintained between the UPPER (1) and LOWER (2) level marks on the oil level dipstick (3).



(1) UPPER level mark (2) LOWER level mark
(3) Oil level dipstick

- Start the engine and let it idle for few minutes.
- Switch "OFF" the i3s switch.
- Stop the engine and park the vehicle on the main stand on a level surface.
- After a few minutes, remove the oil level dipstick, wipe it clean and reinsert the oil level dipstick without screwing it in. Remove the oil level dipstick and check if the oil level is between the upper and lower marks.
- If required, add recommended oil up to the upper level mark. Do not overfill.
- Reinstall the oil level dipstick. Check for oil leaks.

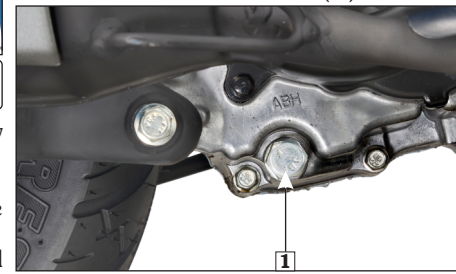
NOTE

- ***Running the engine with insufficient oil may cause engine damage.***
- ***Top up if required after every 3000 km.***

Engine oil replacement/Oil strainer cleaning

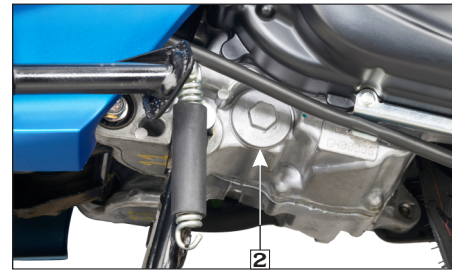
Change the engine oil with the engine at normal operating temperature and the vehicle on its main stand to assure complete and rapid draining.

- Remove the oil level dipstick.
- Place an oil drain pan under the crankcase and remove the oil drain bolt (1).



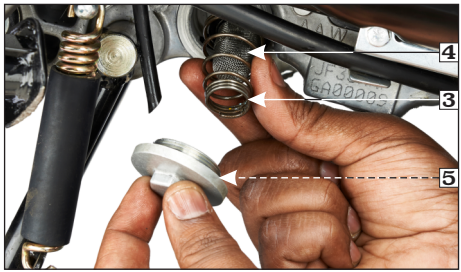
(1) Drain bolt

- Remove the oil strainer screen cap (2).



(2) Oil strainer screen cap

- The spring (3) and oil strainer screen (4) will come out when the oil strainer screen cap is removed.
- Clean the oil strainer screen.
- Check that the oil strainer screen, sealing rubber and cap O-ring (5) are in good condition.



(3) Spring (4) Oil strainer screen (5) O-ring

- Install the oil strainer screen, spring and oil strainer screen cap with new O-ring. Install the drain plug.
- Fill crankcase with the recommended grade of oil:

  At draining: 0.70 litre

  At engine disassembly: 0.80 litre
- Install the oil level dipstick.
- Switch "OFF" the i3s switch.
- Start the engine and let it idle for 2-3 minutes. Stop the engine and ensure that the oil level is at the upper level mark on the oil level dipstick with the vehicle upright on flat level surface. Ensure there are no oil leaks.

! CAUTION

- ***Engine oil quality is the chief factor affecting engine service life. Replace and top-up the engine oil as specified in the maintenance schedule (page 61).***
- ***When running in very dusty conditions, oil changes should be performed more frequently than specified in the maintenance schedule.***

⚠ WARNING

- ***Please dispose used engine oil in a manner that is compatible with the environment. We suggest you take it in a sealed container to your local recycling center or service station for reclamation. Do not throw it in the trash or pour it on the ground or down a drain.***
- ***Used engine oil may cause skin disease if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil.***

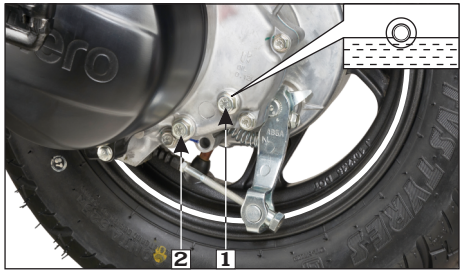
FINAL DRIVE OIL REPLACEMENT

The final drive oil should be replaced as per the maintenance schedule. Replacement requires mechanical skill. It is suggested to get it replaced by Authorised Distributor/Dealer.

GRADE : SAE 10W 30 SL Grade

- Park the vehicle on its main stand.
- Switch "OFF" the i3s switch.
- Start the engine and let it idle for 3-5 minutes.
- Stop the engine and wait for 2-3 minutes.

- Remove the oil level check bolt (1).
- Remove the drain bolt (2), slowly turn the rear wheel and drain the oil.
- After the oil is completely drained, install the oil drain bolt with a new sealing washer.



(1) Check bolt **(2) Drain bolt**

- Fill the transmission case with recommended oil through the check bolt hole up to the bottom edge of the bolt hole.
- **At draining: 0.10 Litre**
- **At transmission disassembly:0.12 Litre**
- Install the oil level check bolt with a new sealing washer and tighten it.

WARNING

- ***While refilling the oil make sure that no foreign material enters the final drive transmission.***
- ***Make sure that no oil gets on the tyre or wheel.***

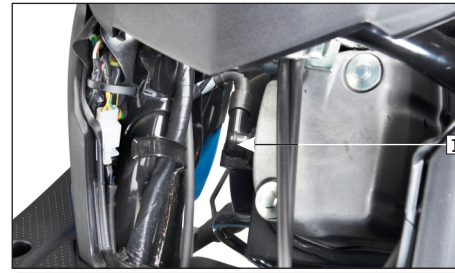
SPARK PLUG

Refer to the safety precautions **(page 60)**.

Recommended spark plug.

Champion-RG8YC (Federal Mogul)

- Remove the center cover **(page 41)**.
- Disconnect the noise suppressor cap (1) from the spark plug.



(1) Noise suppressor cap

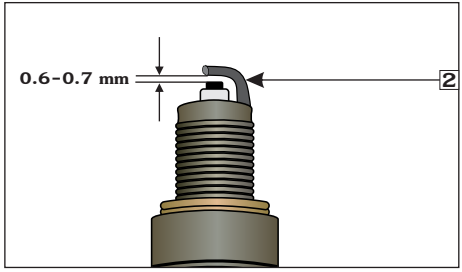
- Clean any dirt around the spark plug base.

WARNING

Never use a spark plug with an improper heat range. Severe engine damage could result.

- Remove the spark plug using the wrench plug provided in the tool kit.
- Inspect the electrodes and center porcelain for deposits, erosion or carbon fouling. If the erosion or deposit is heavy, replace the plug. Clean carbon or wet fouled plug with a plug cleaner.

- Check the spark plug gap using a wire-type feeler gauge. If adjustment is necessary, bend the side electrode (2) carefully.



(2) Side electrode

- With the plug washer attached, thread the spark plug in by hand to prevent cross-threading.
- Tighten a new spark plug 1/2 turn with a wrench plug to compress the washer. If you are reusing a plug, it should only take 1/8-1/4 turn after the plug seats.
- Reinstall the noise suppressor cap.

⚠ WARNING

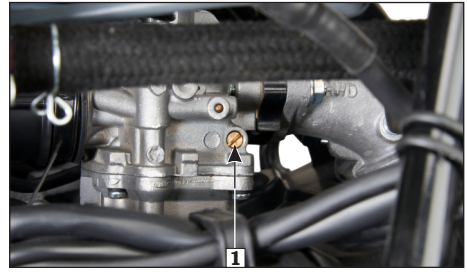
The spark plug must be securely tightened. An improperly tightened plug can become very hot and possibly damage the engine.

IDLE SPEED

Refer to the safety precautions **(page 60)**.
The engine must be at normal operating temperature for accurate idle speed adjustment. Ten minutes of stop-and-go riding is sufficient.

- Warm up the engine and park the vehicle on its main stand.
- Remove the centre compartment **(page 40)**.
- Adjust idle speed by adjusting the throttle stop screw (1) by inserting a suitable screw driver.

Idle speed: 1700±200 r/min

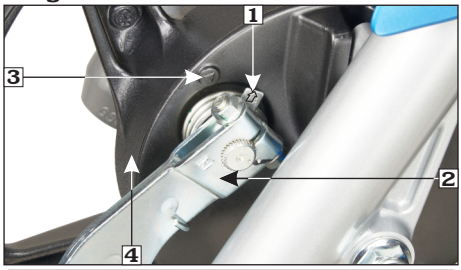


(1) Throttle stop screw

BRAKE SHOE WEAR

Refer to the safety precautions **(page 60)**.
The front and integrated brakes are equipped with brake wear indicators.
When the brake is applied, an arrow mark (1) on the brake arm (2) moves towards a reference mark (3) on the brake panel (4).

Integrated brake



(1) Arrow **(2) Integrated brake arm**
(3) Reference mark **(4) Brake panel**

Rear brake



(1) Arrow **(2) Brake arm**
(3) Reference mark **(4) Brake panel**

If the arrow aligns with the reference mark on full application of the brake, the brake shoes must be replaced. Visit your Authorised Distributor/Dealer for this service.

BATTERY

Refer to the safety precautions **(page 60)**.

Battery is located behind the front center cover.

Specification:

12V-4Ah ETZ-5, MF Battery

It is not necessary to check the battery electrolyte level or add distilled water as the battery is a **Maintenance-Free (sealed)** type. If your battery seems weak and/or electrolyte is leaking (causing hard starting or other electrical troubles), contact your Authorised Distributor/Dealer.

NOTE

This symbol on the battery means that this product must not be treated as household waste.

This symbol on the battery means the old battery must be returned to your Authorised Distributor/Dealer as it must be treated as recyclable material.

- ***Battery is a Maintenance-Free (sealed) type and can be permanently damaged if the sealing strip is removed.***
- ***An improperly disposed battery can be harmful to the environment and human health. Always confirm local regulations for battery disposal.***

Battery charging

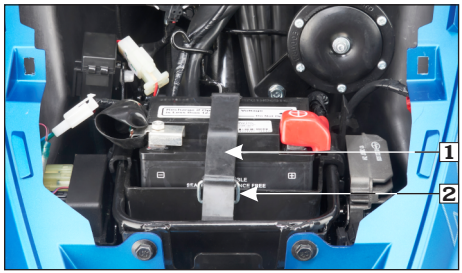
Always visit your Authorised Distributor/ Dealer if you see any symptom of battery discharge as earliest as possible to get the battery charged. The battery has a tendency to discharge rapidly if any additional electrical accessories are fitted on your vehicle.

Battery storage

- If in case your vehicle is not used for more than a month remove the battery, fully charge and store in a cool and dry place.
- If the battery is expected to be stored for more than two months, ensure to fully charge the battery once in a month.
- Always ensure the battery is fully charged before installation.
- Ensure the battery leads are properly connected to the battery terminals during installation.

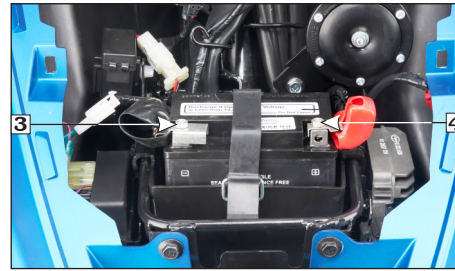
Battery removal

- Remove the front center cover **(page 44)**.



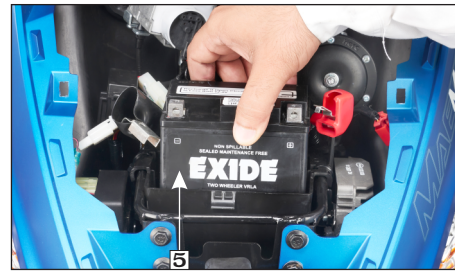
(1) Battery band **(2) Boot band clip**

- Remove the battery band (1) from the boot band clip (2).
- Disconnect the (–)ve terminal lead (3) from the battery first, then disconnect the (+)ve terminal lead (4).



(3) (–)ve terminal **(4) (+)ve terminal**

- Remove the battery (5).



(5) Battery

Battery installation

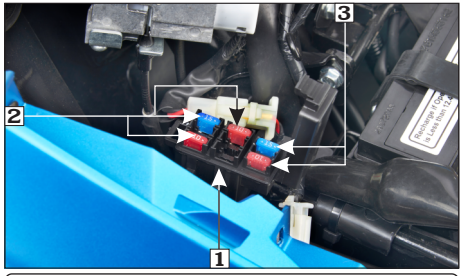
- Reinstall in the reverse order of removal. Be sure to connect the positive (+)ve terminal first, then the negative (–)ve terminal.
- Check the bolts and other fasteners are secured.

FUSE REPLACEMENT

The fuse box (1) is near battery which consist of main and spare fuses.

Main fuse (2) : 15A, 10A and 10A

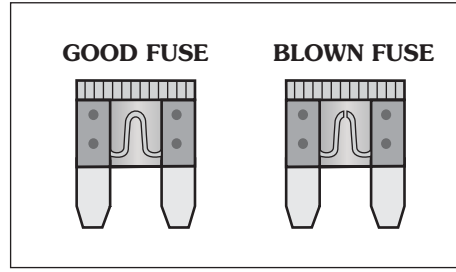
Spare fuse (3) : 15A and 10A



(1) Fuse box
(2) Main fuse : 15A, 10A & 10A
(3) Spare fuse: 15A & 10A

⚠ WARNING

- ***Never use a fuse with a different rating from that specified. It may lead to serious damage to the electrical system or a fire due to short circuit.***
- ***Battery gives off explosive gases. Keep sparks, flames & cigarettes away.***



! CAUTION

- ***Do not attempt to start or ride the vehicle without a charged battery, it can cause fusing of the bulbs and permanent damage to certain electrical components.***
- ***Turn the ignition switch "OFF" before checking or replacing the fuse to prevent accidental short-circuiting.***
- ***If the replacement fuse of the same rating burns out in a short time, there is probably a serious electrical problem on your vehicle. Leave the blown fuse in that circuit and have your vehicle checked by your Authorised Distributor/Dealer.***

SUSPENSION

Inspection

- Check the front forks by locking the front brake and pumping the front fork up and down vigorously. The suspension action should be smooth and there should be no oil leakage.



- Check the rear shock absorber by pushing hard downwards on rear grip while the vehicle is not parked on stand. The vehicle action should be smooth and there should be no oil leakage.

BULB/LED REPLACEMENT

Refer to the safety precautions **(page 60)**.

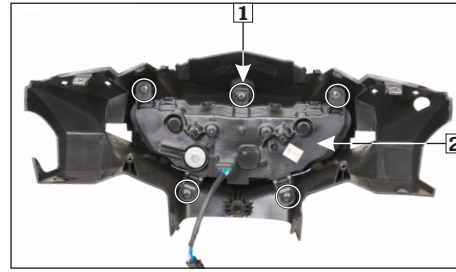
The bulb becomes very hot while the lamp is "ON", and remains hot for a while after it is turned "OFF". Be sure to let it cool down before servicing.

Wear clean gloves while replacing the bulb. If you touch the bulb with your bare hands, clean it with a cloth moistened with alcohol to prevent its early failure.

- Be sure to turn the ignition switch "OFF" when replacing the bulb.
- Do not use bulbs other than that specified.
- After installing a new bulb, check that the lamp operates properly.

(a) Headlamp

- Remove the headlamp assembly **(page 47)**.
- Remove the screws (1) and remove the headlamp LED unit (2).

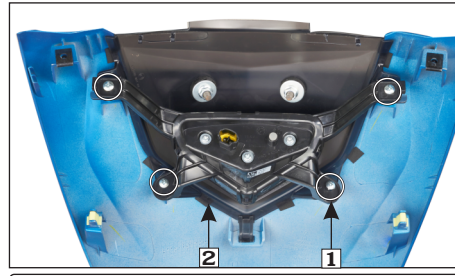


(1) Screws **(2) Headlamp LED unit**

- Install a headlamp assembly in the reverse order of removal.

(b) Position lamp assembly

- Remove the front center cover **(page 44)**.
- Remove the screws (1) and remove the position lamp assembly (2) from front center cover.



(1) Screws **(2) Position lamp assembly**

• Install a position lamp assembly in the reverse order of removal.

(c) Front turn signal bulb

• Insert hand from body cover front side, above front fender area and remove turn signal bulb holder (1) by turning counter clockwise.
• Remove the bulb (2) by turning it to counterclockwise direction.

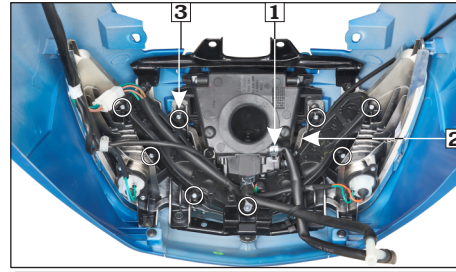


(1) Front turn signal lamp holder
(2) Front turn signal lamp bulb

• Install a new bulb in the reverse order of removal.

(d) Tail/Stop lamp LED unit

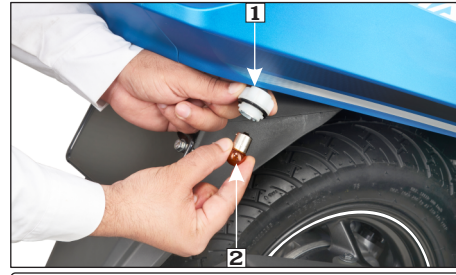
• Remove the body cover **(page 41)**.
• Remove the fuel drain tube (1).
• Remove the fuel tank lid lock cable from the guide (2).
• Remove the tail/stop lamp unit from the body cover by removing the screws (3).
• Install a new tail/stop lamp unit in the reverse order of removal.



(1) Fuel drain tube (2) Guide (3) Screws

(e) Rear turn signal bulb

• Insert hand from body cover rear side, above rear fender area and remove turn signal bulb holder (1) by turning counter clockwise.
• Remove the rear turn signal bulb (2) by turning it to counterclockwise direction.



(1) Bulb holder (2) Rear turn signal bulb

• Install a new bulb in the reverse order of removal.

CATALYTIC CONVERTER

This vehicle is equipped with a catalytic converter in the muffler.

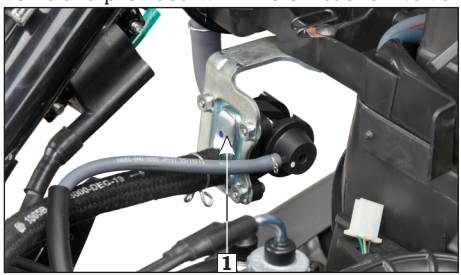
The catalytic converter contains noble metals that serve as catalyst, promoting chemical reactions to convert CO and HC in the exhaust to CO_2 and H_2O (water vapour). A defective catalytic converter contributes to air pollution and can impair your engine's performance.

Follow these guidelines to protect your vehicle's catalytic converter.

- Always use unleaded petrol. Even a small amount of leaded petrol can contaminate the catalyst metals, making the catalytic converter ineffective.
- Keep the engine tuned up.

AIR SUCTION VALVE (ASV) (SECONDARY AIR INJECTION SYSTEM)

Further to meet emission standards this vehicle is provided with the air suction valve.



(1) Air suction valve

Air suction valve (1) supplies fresh air from the air filter to the exhaust manifold to convert carbon monoxide to carbon dioxide. This reduces the CO% in the vehicle's exhaust.

POLISHING OF VEHICLE

After washing your vehicle, wax all painted surfaces (except matte painted surfaces) using a commercially available polish/quality liquid or paste wax to finish the job. Use only a non abrasive polish or wax made specifically for automobiles. Apply the polish or wax according to the instructions on the container.

NOTE

Polishing or waxing is not applicable for models having matte paint.

REMOVING ROAD SALT

The road may contain salt which was sprayed as an anti-freezing agent during winter, and the seawater are the causes of rust.

Wash your vehicle when run on such conditions by the following the point mentioned below, Clean the vehicle using cold water **(page 58)**. Do not use warm water. This worsens the effect of the salt.

STORAGE GUIDE

Extended storage, such as for winter, requires that you take certain steps to reduce the effects of deterioration from non use of the vehicle. In addition, necessary repairs should be made before storing the vehicle, otherwise these repairs may be forgotten by the time the vehicle is removed from storage.

(a) Storage

- Change the engine oil.
- Empty the fuel tank into an approved petrol container using a commercially available hand siphon or an equivalent method.
- Spray the inside of the tank with an aerosol rust-inhibiting oil.
- Reinstall the fuel filler cap on the tank.

WARNING

- ***Petrol is highly flammable and explosive. You can be burned or seriously injured when handling fuel.***
- ***Stop the engine and keep heat, sparks, and flame away.***
- ***Refuel only outdoors.***
- ***Wipe up spills immediately.***

- If storage lasts more than a month, carburetor draining is very important, to assure proper performance after storage.
- To prevent rusting in the cylinder, perform the following:
  - Remove the noise suppressor cap from the spark plug. Using tape or string, secure the cap to any convenient plastic body part so that it is positioned away from the spark plug.
  - Remove the spark plug from the engine and store it in a safe place. Do not connect the spark plug to the noise suppressor cap.
  - Pour a tablespoon (15-20 ml) of clean engine oil into the cylinder and cover the spark plug hole with a piece of cloth.
  - Crank the engine several times to distribute the oil.
  - Reinstall the spark plug and noise suppressor cap.
- Remove the battery. Store in an area protected from freezing temperatures and direct sunlight. Charge the battery once a month.
- Wash and dry the vehicle. Wax all painted surfaces. Coat chrome plated parts with rust inhibiting oil.
- Inflate the tyres to their recommended pressures. Park the vehicle on blocks to raise both tyres off the ground.
- Cover the vehicle (don't use plastic or other coated materials) and store in an unheated area, free of dampness with a minimum of daily temperature variation. Do not store the vehicle in direct sunlight.

(b) Removal from storage

- Uncover and clean the vehicle. Change the engine oil if the vehicle has been stored for more than 4 months.
- Check the battery voltage and charge the battery as required. Install the battery.
- Drain any excess aerosol rust-inhibiting oil from the fuel tank. Fill the fuel tank with fresh petrol.
- Perform all pre-ride inspection checks **(page 49)**. Test ride the vehicle at low speeds in a safe riding area away from traffic.

1. STARTING TROUBLE – ENGINE DOES NOT START

A. Fuel System

- Check fuel in fuel tank
  - → No fuel → Refill
  - ↓ Ok
- Check fuel lines
  - → Leakage/air lock → Rectify
  - ↓ Ok
- **Consult Authorised Distributor/Dealer**

B. Electric Starter Not Working

- Check fuse
  - → Fused → Replace fuse **(ref. Page 75)**
  - ↓ Ok
- Inspect battery
  - → Weak → **Consult Authorised Distributor/Dealer**
  - ↓ Ok
- Check connections, ignition switch/ starter switch/Stop switch
  - → Loose → Secure connections
  - ↓ Ok
- **Consult Authorised Distributor/Dealer**

C. No Spark At Spark Plug

- Check ignition switch
  - → "OFF" (⊗) Position → Turn ignition switch "ON" (Ω)
  - ↓ Ok
- Check spark plug for fouling/ Improper electrode gap
  - → No spark → Replace spark plug/adjust Spark plug gap (0.6–0.7 mm)
  - ↓ Ok
- Check for poorly connected Or loose spark plug wire
  - → Loose contact → Secure properly
  - ↓ Ok
- **Consult Authorised Distributor/Dealer**

2. ENGINE STARTS BUT STALLS

- Check choke knob position
  - → "ON" → Turn to "OFF" position
  - ↓ "OFF" position
- Check air cleaner element
  - → Dirty/Clogged → Clean & Refit
  - ↓ Ok
- **Consult Authorised Distributor/Dealer**

3. POOR PICK UP

- Spark plug loose in cylinder head → Loose → Tighten the spark plug
- Ok
- Check air cleaner element → Dirty/Clogged → Clean & Refit
- Ok
- Check brake binding → Improper Adjustment → Readjust free play of rear brake lever
- Ok
- Check tyre inflation pressure → Under inflated → Correct tyre pressure
- Ok
- **Consult Authorised Distributor/Dealer**

4. ELECTRICAL SYSTEM

Feeble horn sound or no light

- Check fuse → Fused → Replace fuse
- Ok
- Inspect battery → Weak → **Consult Authorised Distributor/Dealer**
- Ok
- Check bulbs → Fused/wrong wattage → Replace bulbs
- Ok
- Check connections → Loose → Secure connections
- Ok
- **Consult Authorised Distributor/Dealer**

5. i3s SYSTEM

- Check i3s switch → "ON"/"OFF" position → Turn i3s switch "ON"
- Ok
- Inspect fuse → Fused → Replace fuse
- Ok
- Inspect battery → Weak/i3s indicator blinking → **Consult Authorised Distributor/Dealer**
- Ok
- Check i3s controller → Loose contact → Secure connections/replace controller
- Ok
- Check the painted groove on the switch plunger → Free play more/less → Adjust the free play
- Ok
- **Consult Authorised Distributor/Dealer**

CUSTOMER'S COPY

MAESTRO EDGE

HMCL Niloy Bangladesh Ltd.

DELIVERY CERTIFICATE

No.: IB9B

I certify having taken delivery of one HMCL Niloy Bangladesh Ltd. **MAESTRO EDGE** vehicle bearing the following particulars:-

Engine No. _____

VIN No. _____

Colour/Model _____ **Key No.** _____

Allotment No. _____ **Date of Sale** _____

Customer's Name _____

I have been explained by the dealer about correct and safe driving habits, warranty terms and conditions, service schedules and maintenance tips.

Customer's Copy

Alongwith the vehicle I have also received the following:-

1. Owner's Manual
2. 2 Nos. Keys
3. 1 Set of tools **(for details see below)**
4. Standard Accessories
5. Battery Make _____ Sr. No. _____
6. Tyre **Front** Make _____ Sr. No. _____
   Rear Make _____ Sr. No. _____

The vehicle has been delivered in factory fresh conditions to my satisfaction & I have understood all terms and conditions of warranty and shall abide by them.

Customer's Name _____

Customer's Address _____

Customer's Signature _____

Authorised Distributor/Dealer Name _____

Authorised Distributor/Dealer Address _____

Details of Tool kit -

Tool bag, +, - No. 2 Driver, Grip, Wrench plug 16 mm, Spanner 14 mm

AUTHORISED DISTRIBUTOR/DEALER COPY

MAESTRO EDGE

HMCL Niloy Bangladesh Ltd.

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Customer's Signature _____

Authorised Distributor/Dealer Name _____

Authorised Distributor/Dealer Address _____

Details of Tool kit -

Tool bag, +, - No. 2 Driver, Grip, Wrench plug 16 mm, Spanner 14 mm

GENUINE PARTS

WHAT ARE THE BENEFITS OF GENUINE SPARE PARTS ?

- Assures long life
- Ensures economy for a long time
- Safety of vehicle and rider
- Peace of mind
- Value for money
- Assured quality

CONSEQUENTIAL DAMAGES ON USING NON-GENUINE PARTS

Cam Chain Kit	• Poor performance • Reduced life • Material used is inferior • Damages other parts of clutch like, clutch center and outer clutch
Gasket Cylinder Head	• Improper sealing • Engine knocking • Leads to leakage and smoky exhaust • Higher emission level
Element Air Cleaner	• Improper air filtration resulting in premature engine failure • Affects fuel efficiency • Poor engine performance
Spark Plug	• Frequent stalling of engine • Higher emission level • Poor engine performance • Affects fuel efficiency

JOBS APPLICABLE TO PERIODIC SERVICES

- Test drive the vehicle if required for reported troubles, if any.
- Wash the vehicle and blow dry with air at every service.
- Inspect fuel lines at every service.
- Inspect throttle free play and operation, at every service, adjust if necessary.
- Inspect i3s system and switch, at every service, adjust if necessary.
- Inspect fuel lid cover operation and adjust, if required.
- Inspect and adjust choke operation, if required.
- Inspect/Replace air cleaner element as per maintenance schedule**(page 61)**.
- Inspect and clean crankcase breather tube/drain tube, if required.
- Inspect, clean spark plug at every service, adjust if necessary (replace at every 12000 km).
- Inspect and valve clearance at every service, adjust if necessary.
- Replace engine oil or top up as per the maintenance schedule.
- Inspect and adjust carburetor, if necessary in every service.
- Inspect secondary air injection system at every 6000 km.
- Clean secondary air cleaner element at every service.
- Clean and lubricate brake cam at every service.
- Inspect and adjust front/Integrated brake lever free play at every service.
- Inspect brake shoe wear out at every service.
- Inspect lever lock operation at every service.
- Inspect battery voltage at every service and charge if required.
- Inspect stop lamp switch, horn and adjust if necessary.
- Inspect headlamp focus at every service, adjust if required.
- Clean and lubricate the kick starter driven gear in the belt case at every service.
- Inspect pinon starter assembly at every 9000 km (Replace in every 2 years or 21000 km, whichever is earlier).
- Inspect drive belt at every 6000 km. (replace at every 24000 km).
- Inspect clutch shoe wear at every 6000 km.
- Inspect and tighten all fasteners to the specified torque (if required).
- Inspect front suspension at every service (Replace front fork oil once in every 2 years or 20000 km).
- Inspect rear suspension at every service. Inspect for any play in the mounting bushes, replace if necessary.
- Inspect wheels and tyre pressure at every service.
- Inspect wheel bearings free play at every service, replace if necessary.
- Inspect steering for smooth operation, adjust steering head bearings if required (lubricate once in every 12000 km).
- Lubricate the main stand at every service.
- Inspect and clean the side stand switch.
- Inspect idle CO emission along with idle r/min/idle CO adjustment (if required).
- Test drive the vehicle for repair of problems reported.
- Clean and polish (except matte painted models) the vehicle before delivery.

SERVICE RECORD SHEET
To be Filled in by Supervisor

Free/Paid Service	Km. Range	Date	Km. Reading	Job Card No.	Engine Oil Top-up/ Replace	Authorised Distributor/Dealer (Sig. & Stamp)
I	500 - 750					
II	3000 - 3500					
III	6000 - 6500					
IV	9000 - 9500					
V	12000 - 12500					
VI	15000 - 15500					
VII	18000 - 18500					
VIII	21000 - 21500					
IX	24000 - 24500					
X	27000 - 27500					
XI	30000 - 30500					
XII	33000 - 33500					
XIII	36000 - 36500					
XIV	39000 - 39500					
XV	42000 - 42500					
XVI	45000 - 45500					
XVII	48000 - 48500					

NOTE

It is mandatory to avail all free and paid services as per the recommended schedule to be eligible for the warranty benefits. Please ensure that each paid service is availed within 90 days from the date of previous service or as per the recommended schedule, whichever is earlier.

SERVICE RECORD SHEET
To be Filled in by Supervisor

Free/Paid Service	Km. Range	Date	Km. Reading	Job Card No.	Engine Oil Top-up/ Replace	Authorised Distributor/Dealer (Sig. & Stamp)
XVIII	51000 - 51500					
XIX	54000 - 54500					
XX	57000 - 57500					
XXI	60000 - 60500					
XXII	63000 - 63500					
XXIII	66000 - 66500					
XXIV	69000 - 69500					
XXV	72000 - 72500					

REMARKS (IF ANY)

SERVICE ADVICE SHEET

Normal wear and tear components replacement advice

Date	Kms / Job Card No.	Advice	Authorised Distributor/Dealer (Sig. & Stamp)	Completion Dt. / Job Card No.



HMCL Niloy Bangladesh Ltd.

OWNERSHIP RECORD AND DATA

NAME_____

ADDRESS_____

MODEL_____ **REGN. NO.** _____

ENGINE NO._____**VIN NO.**_____

DATE OF PURCHASE_____**KM. READING** _____

AUTHORISED DISTRIBUTOR/DEALER NAME_____

ADDRESS_____

_____

BATTERY MAKE_____ **SERIAL NO.**_____

AUTHORISED DISTRIBUTOR/DEALER
STAMP AND SIGNATURE