PREFACE

Thank you for selecting a Hero MotoCorp **PASSION+.** We wish you many miles of continued riding pleasure in the years ahead.

We at Hero MotoCorp, 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 legislation including environment legislation and strengthen the green supply chain.

Your vehicle is conforming to latest BS-VI OBD Stage II-B regulation for emission, safety & noise levels. We are also using non asbestos brake shoes/pads and engine gaskets which are environment friendly in nature.

This vehicle is fitted with a lighting feature known as "Automatic Headlamp ON". The feature is mandated for all 2 Wheelers by Ministry of Road Transport & Highways (Government of India) vide notification GSR 188 (E) dated 22nd February 2016. This feature helps in conspicuity for improving rider safety. The headlamp of this vehicle will always be lit ON when the engine gets ON.

This booklet is your guide to the basic operation and maintenance of your new Hero MotoCorp **PASSION+.** Please take time to read it carefully. As with any fine machine, proper care and maintenance are essential for trouble-free operation and optimum performance.

Your Authorised Hero MotoCorp 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, ILLUSTRATIONS, PHOTOGRAPHS, DIRECTIONS, SPECIFICATIONS AND OTHER CONTENTS COVERED IN THIS OWNER'S MANUAL ARE BASED ON THE LATEST PRODUCT INFORMATION AVAILABLE AT THE TIME OF ITS PUBLISHING APPROVAL, AND THE ACCURACY OR CORRECTNESS OF THE SAME IS NOT UNDERTAKEN OR GUARANTEED.

Hero MotoCorp Ltd ***RESERVES THE RIGHT TO MAKE CHANGES IN ITS CONTENTS AT ANY TIME WITHOUT NOTICE AND/OR INCURRING ANY OBLIGATION, WHATSOEVER. NO ONE IS ALLOWED TO REPRODUCE ANY PART OF THIS PUBLICATION WITHOUT OBTAINING PRIOR WRITTEN PERMISSION FROM*** Hero MotoCorp Ltd.

ACCESSORIES SHOWN MAY NOT BE THE PART OF STANDARD FITMENT. IT IS OUR ENDEAVOUR TO CONSTANTLY IMPROVE OUR PRODUCTS. THIS COULD LEAD TO CHANGE IN PRODUCT SPECIFICATIONS WITHOUT NOTICE. Hero MotoCorp Ltd ***'PASSION+' COMPLIES WITH THE LATEST EMISSION NORMS.***

CONTENTS

	Pg. No.		Pg. No.
VEHICLE IDENTIFICATION	1	MAINTENANCE	43
VEHICLE VIEWS	2	SAFETY PRECAUTION	44
VEHICLE SPECIFICATION	7	MAINTENANCE SCHEDULE	45
VEHICLE SAFETY	9	SPARK PLUG INSPECTION	48
• Important safety information	9	ENGINE OIL	49
• Protective apparel	10	OIL FILTER SCREEN & CENTRIFUGAL FILTER	50
ACCESSORIES & MODIFICATIONS	11	AIR CLEANER	51
ANTI-THEFT TIPS	11	VALVE CLEARANCE ADJUSTMENT	52
SAFE RIDING TIPS	12	CLUTCH LEVER FREE PLAY	53
CORRECT USE OF HEADLAMP	13	THROTTLE OPERATION	53
TIPS FOR HEALTHY ENVIRONMENT	14	DRIVE CHAIN SLACKNESS	54
PARTS FUNCTION	15	DRIVE CHAIN SLIDER INSPECTION	57
• Ignition switch	15	BRAKES	57
• Instruments and Indicators	16	SUSPENSION	60
• LCD panel	19	WHEEL	61
LOW FUEL INDICATOR	21	MAIN/SIDE STAND LUBRICATION	63
FEATURES	21	TUBELESS TYRES	63
HANDLEBAR SWITCHES CONTROL	28	NUTS, BOLTS & FASTENERS	66
i3s (IDLE STOP START SYSTEM)	29	BATTERY	67
SIDE STAND INDICATOR/SWITCH	31	FUSE REPLACEMENT	68
FUEL	33	STOP LAMP SWITCH	69
SEAT LOCK/HELMET HOLDER	35	HEADLAMP FOCUS ADJUSTMENT	69
USB CHARGER	36	CATALYTIC CONVERTER	70
PRE-RIDE INSPECTION	37	EVAPORATIVE EMISSION CONTROL SYSTEM	71
STARTING THE ENGINE	38	POLISHING OF VEHICLE	71
RIDING	40	BASIC TROUBLESHOOTING	72
BRAKING	41	ROAD SIGNS	75
PARKING	41	WARRANTY	
UTILITY BOX	42	HERO GENUINE PARTS	
TOOL KIT/FIRST AID KIT	42	ZONAL/REGIONAL OFFICES	
CLEANING AND WASHING OF VEHICLE	43		

VEHICLE IDENTIFICATION



Vehicle Identification Number (VIN)

Location: Stamped on the right side of the steering head tube.



Engine No.

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

VIN: M B L H A W 5 4 # # # # # # # # # # #

MBL	HAW54	#	#	#	#	#####
Manufacturer code	Vehicle Description	Check Digit	Model Year	Plant Code	Month of Manufacturing	Production Serial Number

Engine No.: H A 1 1 F 2 # # # # # # # # #

HA11F2	#	#	#	#####
Engine Description	Year of Manufacturing	Assembly Plant	Month of Manufacturing	Serial Number

Model: PASSION+

Variants	VIN	Engine
Electric start/Front Disc/Cast wheel/i3s	HAW54/HAW55	HA11F2

VIN and Engine No. may be required:

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

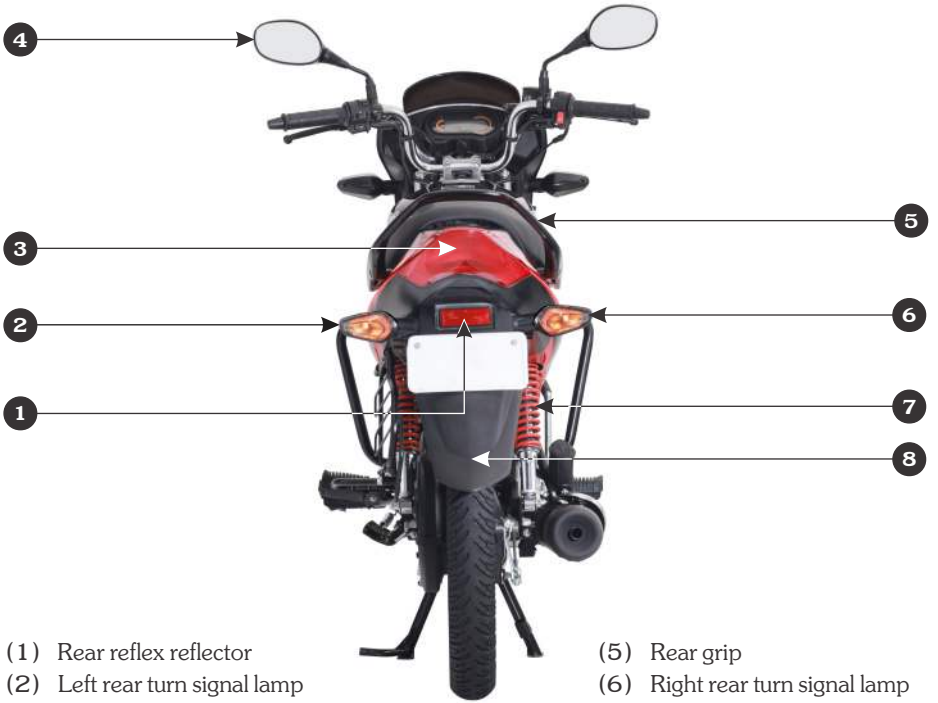
FRONT VIEW



(1) Front fender
(2) Headlamp (High beam)
(3) Front right turn signal lamp
(4) Headlamp (Low beam)
(5) Front cowl
(6) Front left turn signal lamp
(7) Position lamp
(8) Front suspension
(9) Leg guard

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

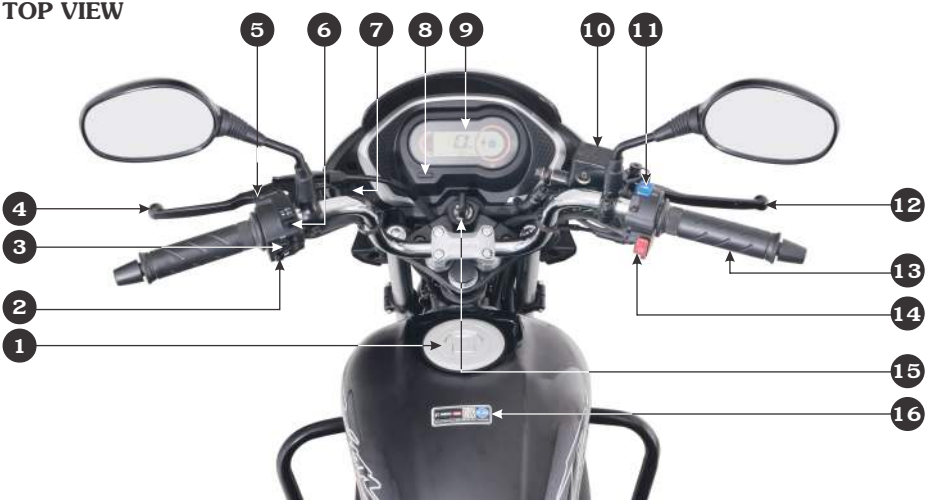
REAR VIEW



(1) Rear reflex reflector
(2) Left rear turn signal lamp
(3) Tail/stop lamp
(4) Rear view mirror
(5) Rear grip
(6) Right rear turn signal lamp
(7) Rear shock absorber
(8) Rear fender

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

TOP VIEW



(1) Fuel tank lid
(2) Horn switch
(3) Turn signal switch
(4) Clutch lever
(5) Passing switch
(6) Dimmer switch
(7) USB charger
(8) Mode button
(9) Meter console
(10) Front brake master cylinder/Reservoir
(11) i3s switch
(12) Front brake lever
(13) Throttle grip
(14) Electric starter switch
(15) Ignition switch with steering lock
(16) QR code & E20 sticker

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

LEFT SIDE VIEW



(1) Side reflex reflector
(2) Gear shift pedal
(3) Rider footrest
(4) Main stand
(5) Side stand
(6) Pillion footrest
(7) Saree guard with women pillion step
(8) Seat lock/Helmet hanger
(9) Left side cover
(10) Side stand switch
(11) Throttle body/ECU

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

RIGHT SIDE VIEW



(1) Exhaust muffler
(2) Kick starter pedal
(3) Rear brake pedal
(4) Oil level dipstick
(5) Starter motor
(6) Utility box
(7) Caliper assembly
(8) Front brake disc
(9) Fuel tank
(10) Battery compartment (Inside)
(11) Seat

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

VEHICLE SPECIFICATION

ITEM		SPECIFICATIONS
Dimensions		
Overall length		1982 mm
Overall width		770 mm
Overall height		1087 mm
Wheelbase		1235 mm
Saddle height		790 mm
Ground clearance		168 mm
Weight		
Kerb weight		116.1 kg
Maximum payload		130 kg
Capacities		
Engine oil		1.15 litres at disassembly and 1 litre at draining
Fuel tank		11.0 litres
Engine		
Maximum power		5.9 kW @ 8000 r/min
Maximum torque		0.82 kgf-m (8.05 N-m) @ 6000 r/min
Bore and stroke		50.0x49.5 mm
Compression ratio		9.9:1
Displacement		97.2 cc
Spark plug		NGK-CR7HSA, BOSCH-UR4AC, Champion-P-RZ9HC (Federal Mogul)
Spark plug gap		0.6-0.7 mm
Valve clearance	Intake	0.10 mm
	Exhaust	0.10 mm
Idle speed		1400±100 r/min in hot condition
Chassis and suspension		
Front suspension		Telescopic hydraulic shock absorbers
Rear suspension		Swingarm with 5 step hydraulic shock absorbers
Caster angle		26°
Trail length		89 mm

VEHICLE SPECIFICATION

ITEM		SPECIFICATIONS
Tyre size	Front	80/100 18 47P
	Rear	80/100 18 54P
Brakes	Front	Disc Dia. 240 mm
	Rear	Dia.130 mm
Transmission		
Primary reduction		3.722 (67/18)
Final reduction		3.071 (43/14)
Gear ratio, 1st		3.182 (35/11)
2nd		1.706 (29/17)
3rd		1.238 (26/21)
4th		0.958 (23/24)
Electricals		
Battery		*MF Battery, 12V-3Ah/ETZ-4
Alternator		140 W @ 5000 r/min
Headlamp (High/Low)		LED
Tail/Stop lamp		12V-5/21W-**MFR
Turn signal lamp		12V-10Wx4 (Amber bulb) with clear lens-**MFR
Meter illumination		LED
Neutral indicator		LED
Turn signal indicator (RH+LH)		LED
Hi beam indicator		LED
Position lamp		LED
i3s indicator		LED
Side stand indicator		LED
Programmed-Fi Malfunction indicator lamp (MIL)		LED
Low fuel indicator		LED
Fuse	Circuit fuse	15A, 10A, 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.

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 footrest, 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 increase 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 use accessories that have been recommended by Hero MotoCorp for this vehicle. See **(page 11)** 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 an approved helmet (ISI marked), 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.

ACCESSORIES & MODIFICATIONS

Modifying your vehicle or using non-Hero MotoCorp accessories can make your vehicle unsafe. Before you consider making any modifications or adding an 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

- Make sure that the accessory does not obscure any lamps, reduce ground clearance, limit suspension travel or steering travel, affect your riding position or interfere with the operation of any controls.
- Be sure electrical equipment does not exceed the vehicle's electrical system capacity **(page 8)**. A blown fuse can cause a loss of lights.
- Do not pull a trailer or sidecar with your vehicle. This vehicle has not been designed for these attachments, and their use can seriously impair your vehicle's 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, mufflers, emission control system or other equipment can also make your vehicle illegal.

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 correct.
- 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 area.
- Keep a note in your vehicle all the time with your name, address and contact details.

SAFE RIDING TIPS

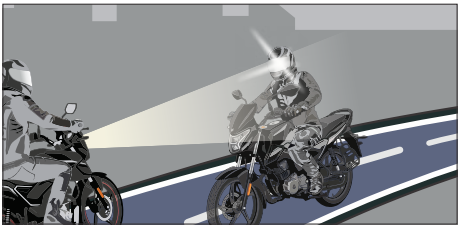
Do's:

- Always conduct simple pre-ride inspection **(page 37)**.
- Always wear a helmet (ISI marked) with chin strap securely fastened and insist on a helmet for your pillion rider.
- While riding, sit in a comfortable position with your legs close to fuel tank.
- Ride defensively and at a steady speed (between 40-50 km/hr).
- To stop the vehicle (in IBS), press the rear brake pedal for the application of front and rear brakes simultaneously. However, for more effective braking, use both brakes simultaneously, keeping throttle in the closed position.
- Respect road signs and obey traffic rules for your own safety and that of others on the road **(page 75)**.
- 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.
- Tightly wrap loose/hanging clothes & avoid entangling with moving parts.
- Get your vehicle serviced regularly by the Authorised Hero MotoCorp workshop.
- Before riding make sure in which mode you are riding whether with i3s switch "ON" or "OFF".

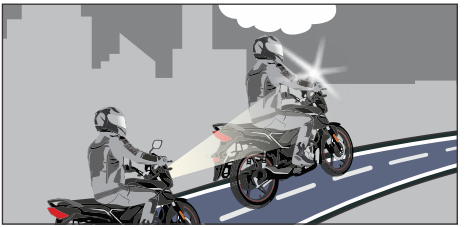
Don't

- Never use cell phone while riding the vehicle.
- Avoid sudden acceleration, braking and turning of your vehicle.
- Never shift gears without disengaging the clutch and closing the throttle.
- 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, front forks, or fenders.
- Never take your hands off the steering handle while riding.
- Do not move the side stand down while riding, as engine will stop while vehicle is in gear **(page 33)** (Wheel locking leading to accident, part damage, etc.).

CORRECT USE OF HEADLAMP



High Beam Dazzling Oncoming Vehicle



High Beam Dazzling Vehicle In Front

NOTE

Improper use of high beam can dazzle others and cause safety risks. Riding in high beam in specific condition can be punishable as per Motor Vehicle Act.

Use Low beam when:

- Riding in the city, on lit roads, or when other vehicles are around.
- Riding closely behind someone, to prevent dazzling them through their mirrors.
- Riding in bad weather (rain/fog/snow). Low beam allows you to see the road better.

Use High beam ONLY when:

- Riding on dark, unlit roads outside city limits.
- Riding on empty roads with no other vehicles around you.

Use Pass switch when:

- Overtaking someone. Flash it once or twice to signal your intent to overtake.
- Driving around a blind corner or intersection to signal your presence.

Dealing with glare:

If an oncoming vehicle or someone behind you is blinding you:

- Do not stare directly into the bright lights. Shift your gaze slightly while still staying attentive.
- Reduce your speed and keep a safe distance from others.
- Keep your helmet visor and spectacles (if using) clean and free from scratches.

TIPS FOR HEALTHY ENVIRONMENT

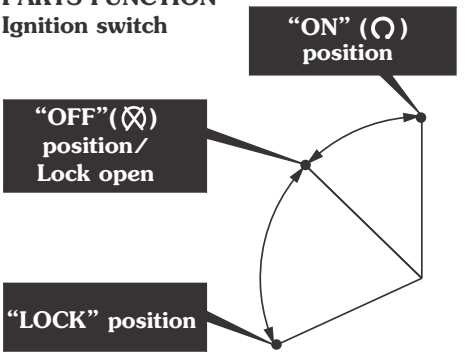
The following tips shall ensure a healthy vehicle, healthy environment, and a healthy you.

- **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 & fuel efficiency.
- **Regular servicing:** Get your vehicle serviced at an Authorised Hero MotoCorp workshop, as per the service schedule, for an optimum performance and keep the emission level under check.
- **Genuine spares:** Always insist on Hero MotoCorp 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 MA2) or Hero 4T Plus SAE 5W 30 SN grade (JASO MA2) engine oil is recommended by Hero MotoCorp and make sure you change it every 6000 km. (Top up if the oil level is at or near the lower level mark) to keep the engine fit and environment healthy.

  (Do not mix "SAE 10W 30 SL grade and SAE 5W 30 SN grade" engine oil during oil change or top up).
- **Noise pollution :** Noise beyond a certain decibel is pollution. Whether it is from horns or defective mufflers, excessive noise will cause headaches and discomfort.
- **Emission pollution:** Get emission of your vehicle checked by Authorised agencies at least once every 6 months or as notified by the government from time to time.
- **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.
- **BS-VI grade fuel :** Always use BS-VI grade fuel to adhere to BS-VI norms.

PARTS FUNCTION

Ignition switch



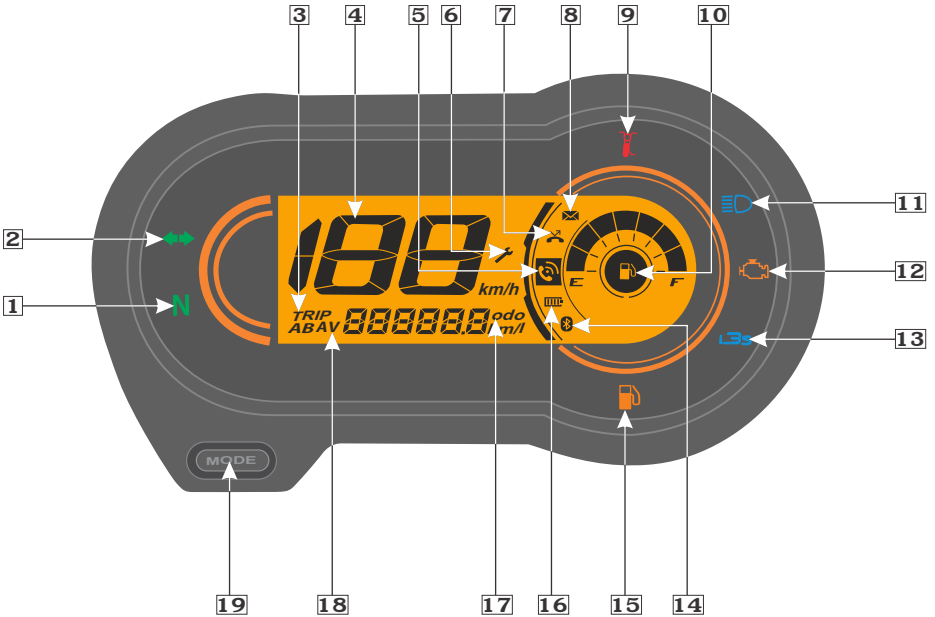


(1) Ignition switch
(2) Ignition key
(3) Steering lock position

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 their normal position. The speedometer and odometer will go to their maximum values and will come back to its their normal readings. The engine can be started. Turn signal lamp, horn, tail/stop lamp, fuel gauge, & neutral indicator will be functional. Programmed FI malfunction indicator lamp (MIL) illuminates continuously and i3s indicator glows for 2 seconds.	Key cannot be removed
"OFF"(⊗)	Engine cannot be started and no electrical system will be functional.	Key can be removed
"LOCK"	Steering is locked.	Key can be removed

Instruments and Indicators

The indicators are in the meter console above the headlamp. The functions are as below.



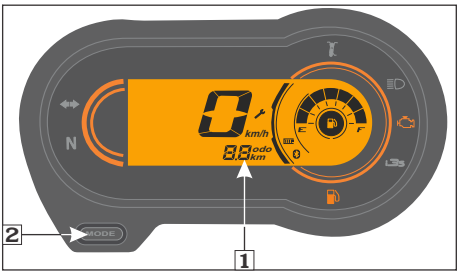
Sl. No.	Description	Function
1	Neutral indicator	Light glows when vehicle is in neutral.
2	Turn signal indicators	Flashes when turn signal switch is operated.
3	Tripmeter	Shows the distance travelled during a trip after setting to zero **(page 19).**
4	Speedometer	Indicates driving speed.
5	Incoming call alert	You will get all the incoming call alerts on the meter console once your smartphone is paired with the vehicle via Hero app **(page 26).**
6	Service reminder indicator	Displays when the next service is due **(page 20).**
7	Missed call alert	You will get all the message alerts on the meter console once your smartphone is paired with the vehicle via Hero app **(page 26).**
8	Message alert	You will get all the message alerts on the meter console once your smartphone is paired with the vehicle via Hero app **(page 27).**
9	Side stand indicator	Light glows when the side stand is down.
10	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).**
11	High beam indicator	Light glows when headlamp is in high beam.

Sl. No.	Description	Function
12	Programmed-FI malfunction indicator lamp (MIL)	When the ignition switch is turned "ON" the programmed FI malfunction indicator lamp (MIL) glows continuously and then goes "OFF" once the engine is started. It indicates that programmed FI system is OK. If it glows continuously, there is an abnormality in the programmed FI system, it is recommended to reduce the speed and drive to the Authorised Hero MotoCorp workshop for check-up.
13	i3s indicator	Indicates the status of i3s **(page 29).**
14	Bluetooth	On pairing with Hero app **(page 23)**, the meter console displays a bluetooth symbol, indicating bluetooth is connected.
15	Low fuel indicator	Light glows when the fuel quantity is low **(page 21)**.
16	Phone battery status	Display battery status of smartphone on the meter console once your smartphone is paired with the vehicle via Hero app **(page 27)**.
17	Odometer	Shows accumulated distance travelled **(page 19)**.
18	Real time mileage indicator (RTMI)	It indicates the current mileage of the vehicle (in km/litre). The indication will change after every 3 seconds depending upon the driving condition **(page 20)**.
19	Mode button	Switches display between odometer, tripmeter-A & B and RTMI.

LCD PANEL

(a) Odometer

The odometer (1) shows accumulated distance travelled. The odometer can be selected by pressing the mode button (2).



(1) Odometer **(2) Mode button**

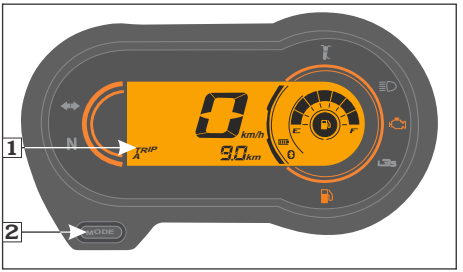
(b) Tripmeter

The tripmeter (1) shows distance travelled per trip. The tripmeter can be reset to zero by pressing the mode button (2) for more than 2 seconds. The tripmeter can be selected by pressing the mode button.

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

Push the mode button (2) to select "Trip-A" and "Trip-B". "Trip-A" and "Trip-B" can be displayed up to "999.9" km.

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

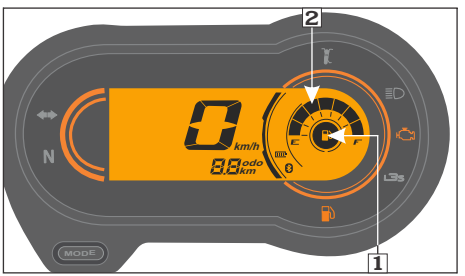


(1) Tripmeter **(2) Mode button**

(c) Fuel gauge

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

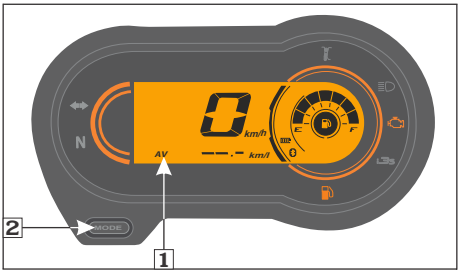
The digital segments (2) will swing to maximum scale on the meter console once the ignition switch is turned "ON" ( ). If all the segments are displayed it means fuel quantity in the fuel tank is 11 litres.



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

(d) Real time mileage indicator (RTMI)

The real time mileage indicator (RTMI) (1) shows the current mileage of the vehicle in km/litre and is refreshed after every 3 seconds.



(1) Real Time Mileage Indicator (RTMI)
(2) Mode button

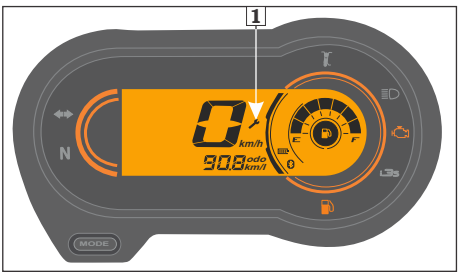
When the ignition switch is turned "ON" (🔑) position, the real time mileage indicator will temporarily show the digit "88888.8" which indicates that all the digital LCD segments are working. The display range is from (0 to 120 km/litre).

The fuel consumption shall be displayed when the speed of the vehicle is more than 5±2 km/hr. If the speed is less than 5±2 km/hr "---.-" shall be displayed.

The RTMI shows a minimum value of 0.0 km/litre and maximum value of 120 km/litre. During coasting with throttle fully closed, the fuel consumption is very minimal and hence the display can go up to 120 km/litre.

(e) Service reminder indicator

The service reminder indicator (1) is to indicate to the user to bring the vehicle to an Authorised Hero MoroCorp workshop for service. The indicator will 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. The service reminder indicator can be reset at an Authorised Hero MoroCorp workshop.



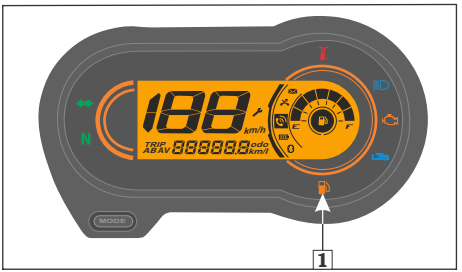
(1) Service reminder indicator

NOTE

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

LOW FUEL INDICATOR

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



(1) Low fuel indicator

! CAUTION

Ensure the vehicle is not used with low fuel indicator glowing continuously. It will not only result in the vehicle running out of fuel, but may also cause serious damage to the fuel pump. Please ensure fuel is refilled as soon as the low fuel indicator starts glowing.

NOTE

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

FEATURES

(a) Steering lock

Steering lock with ignition switch, turn the ignition key (1) to "OFF" (⊗) position & turn the handlebar towards left or right & push the key downwards & turn towards "LOCK" position. After locking take out the ignition key.



(1) Ignition key

(b) Hero App

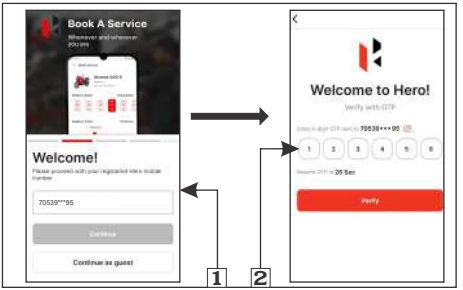
Application:

Hero App 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 battery status and message alert.

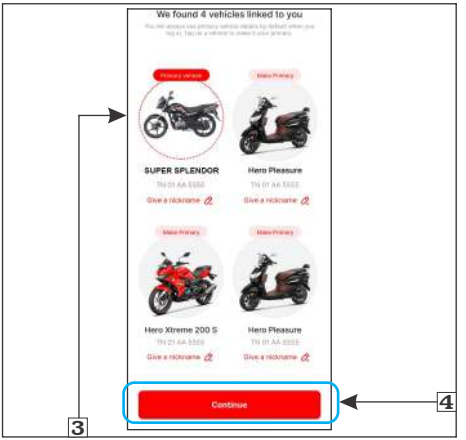
To connect your device proceed as follows:

- Open Hero App on your smartphone.
- Application asks the user to login (1) using registered mobile number.

- Now user will receive the 6-digit OTP on registered mobile number.
- User required to enter the 6-digit OTP (2) and verify.



(1) Login **(2) Enter OTP**



(3) Select vehicle screen **(4) Continue**

NOTE

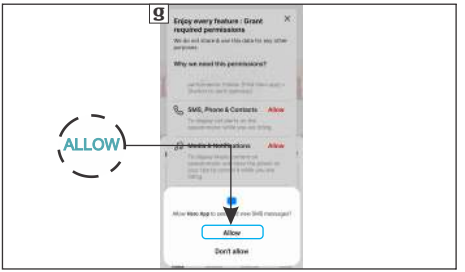
- ***Compatibility and performance of Hero App may vary based on your device and software version.***
- ***Application needs GPS signal, internet and bluetooth connectivity to perform the desired functionality.***

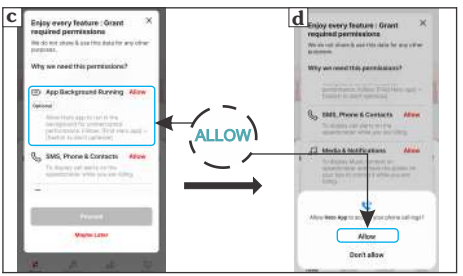
- After successful verification, select vehicle screen (3) will be replicated on mobile screen. Tap on the vehicle image to continue.
- Select the vehicle and click on "Continue" (4).

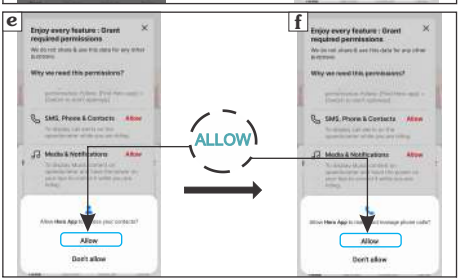
- For first time pairing, allow the application to access:

a. Device location.
b. Bluetooth connectivity.
c. App background running (optional).
d. Phone call logs on your device.
e. Contacts.
f. Make and manage phone calls.
g. Send and view SMS messages.







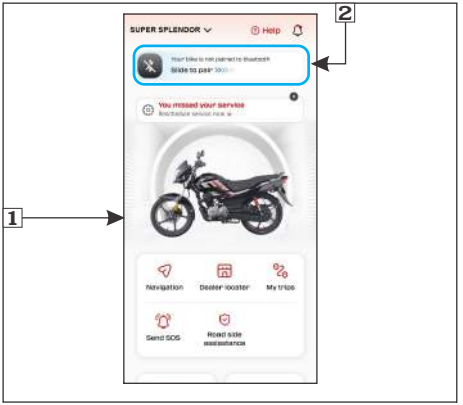


Bluetooth:

Your vehicle is equipped with bluetooth connectivity feature by which you can pair your smartphone with the meter console of your **PASSION+** vehicle through Hero App.

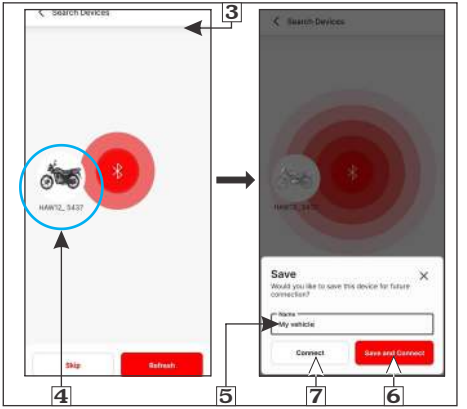
After successful login to Hero App **(page 21)** To connect your device to bluetooth proceed as follows:

- After selecting the vehicle, user can view the Dashboard **(1)** with Connect button visible.



(1) Dashboard **(2) Slide to pair**

- User will be redirected to the Bluetooth searching screen (3).
- The application searches for a while and displays all compatible nearby devices. Select the device (4).
- Update your name (5) (if required) and select either save and connect (6) or connect (7) to proceed.



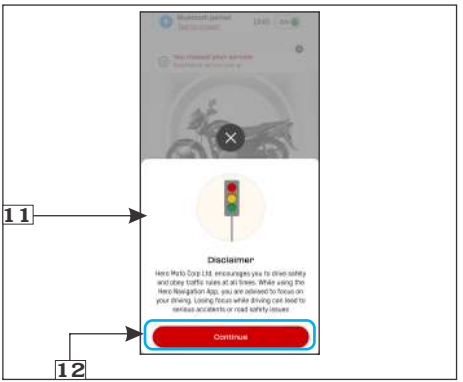
(3) Bluetooth searching screen
(4) Select the device
(5) Update your name
(6) Save and connect
(7) Connect

- Now application will send pairing request notification (8). Click on the notification
- Now meter console will display paring pin (9).
- Enter the pin in application screen and select “Pair” (10).



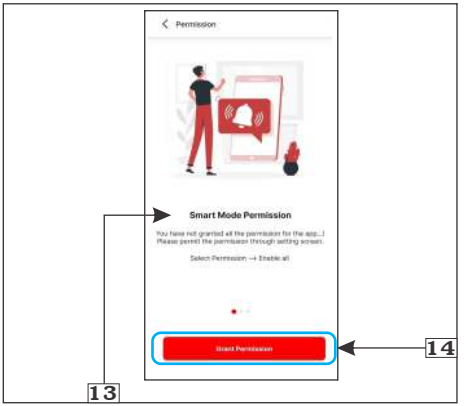
(8) Pairing request notification
(9) Pin **(10) "Pair"**

- Disclaimer popup (11) instruction will show, click on "Continue" (12) to dismiss the popup.



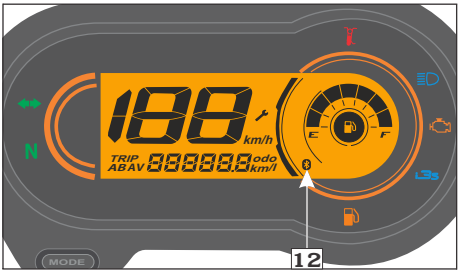
(11) Disclaimer popup **(12) Continue**

- Now application asks the user to give the smart mode permission (android) (13) for DND mode, where phone will switch to vibrate mode from ringing.
- After granting permission (14) user will be able to access the DND feature.



(13) Smart mode permission
(14) Grant permission

- On pairing, meter console displays bluetooth symbol (15) which indicates that bluetooth is connected .
- If any error occurs during the course of pairing process, then meter console will not display bluetooth symbol. Repeat the above steps and keep your smartphone closer to the vehicle to reconnect.



(15) Bluetooth symbol

Autopairing

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

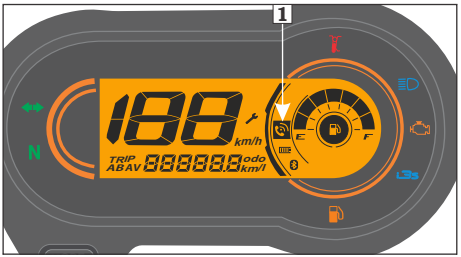
NOTE

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

Various features of Hero App are as follows:

- **Incoming call alert**

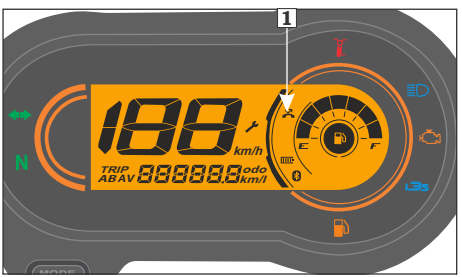
When smartphone is paired with the meter console of your vehicle via bluetooth **(page 23)**, then you will get all the incoming calls alerts (1) on the meter console.



(1) Incoming call alert

- **Missed call alert**

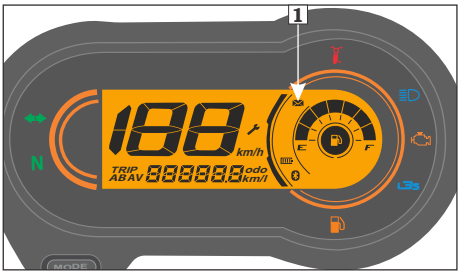
When your smartphone is paired with the meter console of your vehicle via bluetooth **(page 23)**, then you will see missed call alerts (1) on the meter console.



(1) Missed call alert

• **Message alert**

When your smartphone (android) is paired with the meter console of your vehicle via bluetooth **(page 23)**, then you will get all the message alerts (1) on the meter console.



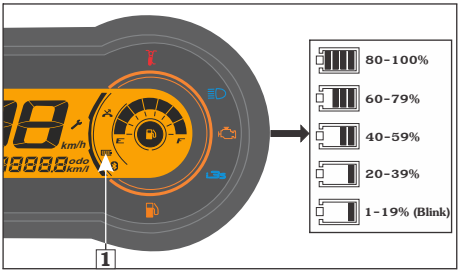
(1) Message alert

• **Phone battery status**

When your smartphone is paired with the meter console of your vehicle via bluetooth **(page 23)**, then it will display phone battery status (1) on the meter console.

In meter console:

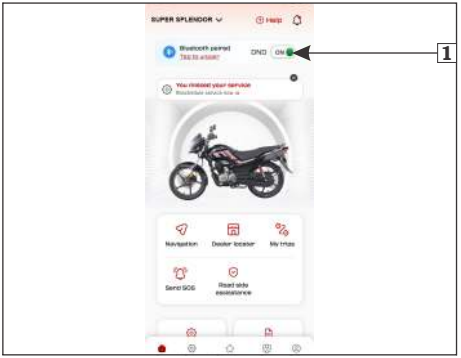
4 bar display – 80-100%
3 bar display – 60-79%
2 bar display – 40-59%
1 bar display – 20-39%
1 bar blink with outer line display – 1-19%.



(1) Phone battery status

• **Do not disturb (DND) mode**

When your smartphone is paired with the meter console of your vehicle via bluetooth **(page 23)**, then you can switch "ON" the DND mode (android) (1) in which your smartphone will be on vibrate mode and if you receive any call, an SMS will be triggered and sent to the caller stating **"I'm riding bike, Please call me later"**.



(1) DND mode on Hero App

HANDLEBAR SWITCHES CONTROL

Left handlebar controls

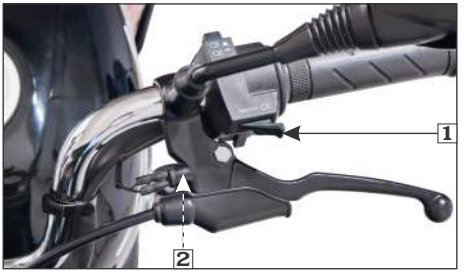
1. Passing switch

Gives an indication for passing ahead.

Press passing lamp switch (1) to operate the passing lamp.

2. Clutch switch

There is a clutch switch (2) provided for the safety of the rider. The vehicle cannot be started by electric starter switch until the clutch lever is operated when the vehicle is engaged in gear.



(1) Passing switch (2) Clutch switch

3. Headlamp dimmer switch

The headlamp operates only when the engine is running or when passing switch is operated.

Select " " for high beam and " " for low beam.

4. Turn signal lamp switch ( )

Shift the turn signal lamp switch (4) 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.

5. Horn switch ( )

Press the horn switch (5) to operate the horn.



(3) Headlamp dimmer switch
(4) Turn signal lamp switch (5) Horn switch

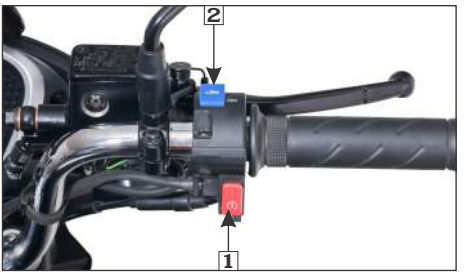
Right handlebar controls

1. Electric starter switch ( )

Ensure starter switch (1) is operated when the vehicle is in neutral gear. If the vehicle is engaged in gear, press the clutch lever before operating the starter switch. Release starter switch after the engine has started.

! CAUTION

- ***If electric starter switch is pressed continuously and engine does not start, cranking of engine will stop after 5 secs. After that rider again needs to press the electric starter switch.***
- ***If engine started, cranking of the engine will stop after r/min reaches more than 850 r/min under normal condition.***



(1) Electric starter switch (2) i3s switch

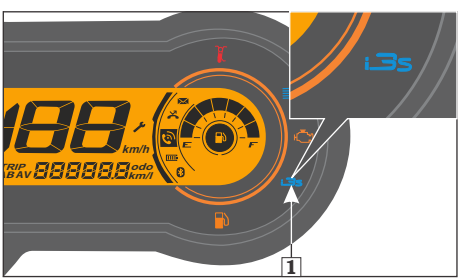
2. i3s switch

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

i3s (IDLE STOP START SYSTEM)

Starting & Warm up the engine:

Turn the ignition key to "ON" ( ) position.



(1) i3s indicator

The i3s indicator (1) will glow on the meter console for 2 seconds and turn "OFF". i3s system will activate automatically once the engine gets warmed up.

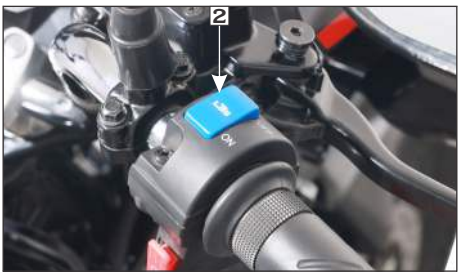
Initial activation of the i3s system:

Keep the i3s switch (2) to "ON" position.

Turn the ignition key to "ON" (⏻) position. The i3s indicator on the meter console will glow for 2 seconds and turn "OFF".

Start the vehicle (in neutral and clutch lever released condition) with less than 2000 r/min and let it idle till engine gets warmed up. When all i3s conditions are met, the i3s indicator will glow again. The engine will cut-off in 30 seconds. After the first stop start, every subsequent stop will be in 5 seconds.

In this condition, the engine can be restarted either with clutch lever, kick or electric start.



(2) i3s switch

Driving with i3s switch in "ON" position:

While driving, if the engine is kept idling (while waiting in a traffic signal), the engine will cut off in 5 seconds. The vehicle should be in stand still condition, with neutral gear position at less than 2000 r/min with clutch lever/throttle is in released position and engine is warmed up. When all i3s conditions are met, the i3s indicator will glow again. The i3s indicator will be continuously blinking in the meter console indicating that vehicle stopped in i3s condition. By pressing the clutch lever, the engine will start again and gear can be engaged to move the vehicle.

NOTE

- ***If vehicle stops in i3s condition and kept idle for more than 500 secs (ignition switch is "ON" position) i3s function will be deactivated and cannot be started by pressing the clutch lever, rider can only start the vehicle with electric or kick start.***
- ***If engine is stopped by any means other than i3s function, i3s indicator will not glow/blink in the speedometer. In this condition, vehicle will not start by pressing the clutch lever. Vehicle can be started by using kick or electric start.***
- ***If all the required i3s conditions are met, i3s indicator will glow for 5 secs before the engine cuts-off.***

Driving with i3s switch in "OFF" position:

While driving in a traffic jam/or very dense traffic where the vehicle has to encounter a stop and go situation, the i3s switch can be changed 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

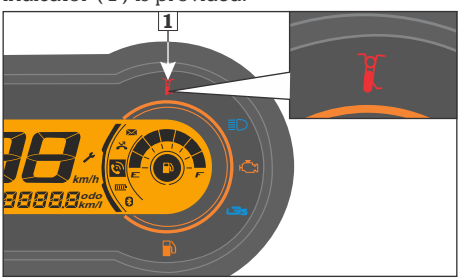
- ***The i3s system will not function if rider puts the i3s switch to"OFF" position.***
- ***If the battery voltage is low and engine r/min is less than 2000, there will be 3 continuous blinks after every 6 secs.***
- ***If the low battery voltage is detected while the ignition key is in "ON" position or engine is in running condition, the i3s function will be deactivated or may not function properly until the rider turns the ignition switch to "OFF" (⊠) position and then back to "ON" (⏀) position.***
- ***If the vehicle is driven without battery or with the dead battery and the engine r/min is less than 2000. The i3s indicator on the speedometer will blink continuously at every 1.5 secs.***
- ***If the vehicle has fallen down, i3s function may not work properly. Before restarting the engine you must turn the ignition switch to "OFF" (⊠) position and then back to "ON" (⏀) position.***

NOTE

- ***If the battery is in healthy condition and the i3s system does not work properly, it is recommended to visit your Authorised*** Hero MotoCorp ***workshop.***
- ***i3s system will not function properly if the vehicle battery is low/dead or driven without battery.***
- ***If vehicle detects any problem in electronic control unit (ECU) the i3s function will not work.***

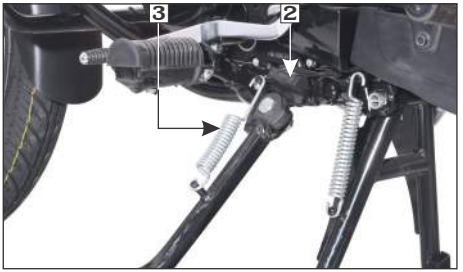
SIDE STAND INDICATOR/SWITCH

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 meter console.



(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.
- While the vehicle is removed from side stand, 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 Hero MotoCorp workshop.

Your vehicle is equipped with "Side stand engine kill" feature for added safety purpose.

This feature has following functions:

- It prevents starting the engine when transmission is in gear (irrespective of clutch lever operation) and side stand is down.
- It stops the running engine when transmission is in gear (irrespective of clutch lever operation) and side stand is moved down.

WARNING

"Side stand engine kill" system is not affected by clutch lever operation.

To inspect the functionality of this feature, park the vehicle on its main stand and check all the conditions described in the inspection flow diagram.

INSPECTION FLOW DIAGRAM

1. Turn the ignition switch to "ON" (Ω) position and press the electric starter switch (with transmission in neutral and side stand is down).

Does engine start?
- NO → **Visit Authorised** Hero MotoCorp **Workshop**
- YES ↓

2. Then shift the transmission to gear (with engine running and irrespective of clutch lever operation).

Does engine stop?
- NO → **Visit Authorised** Hero MotoCorp **Workshop**
- YES ↓

3. Now pull in the clutch lever and press the electric starter switch (after engine has stopped).

Does engine start?
- YES → **Visit Authorised** Hero MotoCorp **Workshop**
- NO ↓

SYSTEM IS OK

If your vehicle doesn't operate as described in flow diagram, please visit your Authorised Hero MotoCorp workshop.

⚠ WARNING

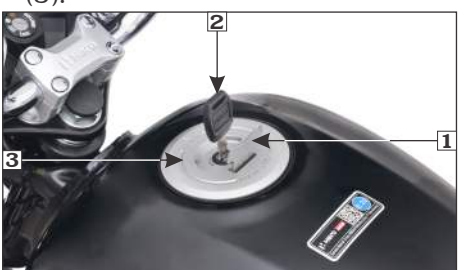
Regularly inspect the functionality of "Side stand engine kill" feature and in case of any malfunction visit Authorised Hero MotoCorp ***workshop.***

FUEL

(a) Fuel tank

Fuel tank capacity is **11** litres (Be sure to fill the fuel tank when low fuel indicator glows).

- To remove the fuel tank cap, open the key hole cover (1) and insert the ignition key (2) turn it clockwise and remove the cap (3).

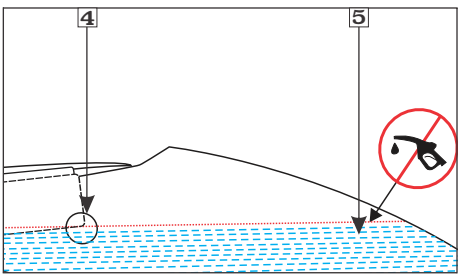


(1) Key hole cover
(2) Ignition key
(3) Fuel tank cap



(3) Fuel tank cap

- Do not overfill the tank. There should be no fuel (4) in filler neck (5). Fill the tank with fuel as shown.



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

- For locking, position the cap with "▲" mark facing towards the front, back on the opening and press gently. The key springs back to the normal position and the cap gets locked.

⚠ WARNING

Petrol is extremely flammable and is explosive under certain conditions. Refill in a well ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area where the vehicle is refilled or where petrol is stored.

(b) Petrol containing alcohol

Fuel available at your location may contain ethanol. Ethanol is a form of alcohol and is generally mixed with petrol to reduce emissions.

E20 sticker on fuel tank indicates that the vehicle parts are compliant up to the blend of "20% ethanol with petrol".

It is recommended not to use petrol containing more than 20% of ethanol to avoid any damage to engine and other parts of the vehicle.

If you observe any problem related to the operational performance of the vehicle, contact your Authorized Hero MotoCorp workshop.



(1) E20 sticker (2) Fuel tank

CAUTION

Ensure the vehicle is not used with low fuel indicator glowing continuously. It will not only result in the vehicle running out of fuel, it may also cause serious damage to the fuel pump. 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.***

SEAT LOCK /HELMET HANGER

Location : On the rear left side of the seat, below the rear cowl.

Operation : Insert the key and turn it clockwise. Pull the knob (2) downwards to release the seat. To install, engage the hook on the underside of the seat with the frame and push on the top rear side of the seat until the lock (1) clicks.



(1) Seat Lock (2) Knob (3) Helmet Hanger

The helmet can be hung and locked on the hook provided with the seat lock (1) by rotating the key.

WARNING

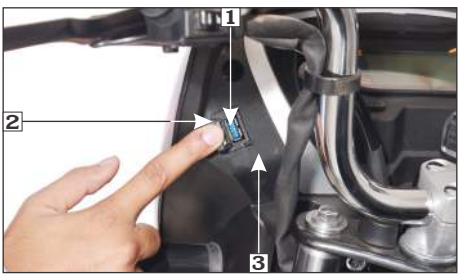
- ***Riding with a helmet attached to the holder can interfere with the rear wheel and could cause a crash in which you can be seriously hurt or killed.***
- ***Use the helmet holder only while parked. Do not ride with a helmet secured by the holder.***

USB CHARGER

A USB charger (1) with a cap (2) located on the left side of the inner panel (3) near meter console to charge your mobile phone safely while riding.

Use of non-standard USB cable may cause damage to the mobile phones.

To connect a mobile phone to the charger, first open the cap from the USB charger and then plug the charger cable into it. Hero MotoCorp will not be responsible for damages caused due to use of non-standard USB cable.



(1) USB charger **(2) Cap**
(3) Inner panel

CAUTION

- ***Always place the device in a soft clean cloth/towel to avoid any damage due to road shocks while riding.***
- ***Multiple charging of USB devices has to be avoided, simultaneous charging may lead to slow or no charging.***
- ***USB port is for charging compatible USB devices.***
- ***Do not leave the USB device and USB cable in the vehicle when the vehicle is parked.***
- ***Charge your device when the engine is operational/while riding.***
- ***USB charger will not be covered under warranty in case of USB charger cap damage.***

NOTE

- ***Do not apply any soap solution, oil or grease inside the USB charger.***
- ***Any personal belongings have to be removed before water washing to avoid damage.***
- ***Always keep the USB port cap closed after use to prevent dust or water entry during rains/water wash.***
- ***Do not direct water jet towards the port even with cap closed to avoid any short circuit. Always dry the area using a dry cloth or moisture free compressed air before use.***
- ***Press the cap slightly for proper locking of USB charger cap.***
- ***The charging time of mobile may vary, depending on the mobile's battery state of the charge, mobile make and conditions.***

PRE-RIDE INSPECTION

You should conduct pre-ride inspection before riding the vehicle to enhance riding comfort and safety. Clean your vehicle regularly. It protects the surface finish. Avoid cleaning with products that are not specifically designed for vehicle surfaces. Inspect your vehicle every day before you start the engine. The items listed here will only take a few minutes, and in the long run they can save time, expense and possibly your life. Please follow the tips as given below:

- **Engine oil level-**Check and top up engine oil if required **(page 49).** Check for leaks.
- **Programmed FI malfunction indicator lamp (MIL)-**When the ignition switch is turned "ON" the programmed FI malfunction indicator lamp (MIL) glows continuously and then should go "OFF" once the engine is started.
- **Fuel level-**Ensure sufficient fuel is available in your fuel tank for your journey **(page 19)**. Check for leaks.
- **Low fuel indicator-**Vehicle should not be operated with low fuel indicator glowing continuously **(page 21)**.
- **Front brake-**Check for correct brake fluid level in the master cylinder **(page 57).**
- **Rear brake-** Check operation. Adjust free play, if necessary **(page 58)**.
- **Tyres-**Check condition and pressure **(page 63).**
- **Clutch-**Check for smooth operation. Adjust free play, if necessary **(page 53)**.
- **Drive chain-**Check condition and slackness **(page 54).** Adjust and lubricate, if necessary.
- **Throttle-**Check for smooth opening and closing in all steering positions **(page 53)**.
- **Lamps and Horn-**Check that headlamp, tail/stop lamp, turn signal lamps 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 29).**
- **i3s system-**Make sure that i3s system is functional properly **(page 29).**
- **Fitting & Fasteners-**Check & tighten, if necessary.
- **Steering-**Check for smooth action for easy maneuverability.
- **Side stand-**Check for proper functionality **(page 31).**

STARTING THE ENGINE

Always follow the proper starting procedure. To protect the catalytic converter in your vehicle's exhaust system, avoid extended idling and the use of leaded petrol.

⚠ WARNING

Your vehicle's exhaust contains poisonous carbon monoxide gas. High levels of carbon monoxide can collect rapidly in enclosed areas such as garage. Do not run the engine in a closed space without proper ventilation. Even with ventilation, the engine must not be run for extended periods.

! CAUTION

- ***If electric starter switch is pressed continuously and engine does not start, cranking of engine will stop after 5 secs. After that rider again needs to press the electric starter switch.***
- ***If engine started, cranking of the engine will stop after r/min reaches more than 850.***
- ***This vehicle is equipped with a side stand engine kill feature (page 32).***

Preparation

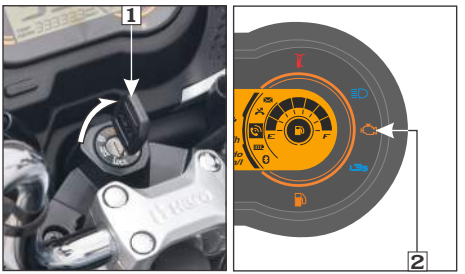
Before starting, insert the key and follow the below mentioned procedure :

- Turn the ignition switch (1) "ON" (⏻).
- Confirm that the programmed FI malfunction indicator lamp (MIL) (2) glows continuously and then goes "OFF" once the engine is started.

Preparation

Before starting insert the key and follow the below mentioned procedure :

- Turn the ignition switch (1) "ON" (⏻).
- Confirm that the programmed FI malfunction indicator lamp (MIL) (2) glows continuously and then goes "OFF" once the engine is started.



(1) Ignition switch (2) Programmed FI malfunction indicator lamp (MIL)

- Find neutral position & check neutral (N) indicator (3) on instrument console with ignition "ON".



(3) Neutral indicator

- Lift the side stand (4).



(4) Side stand

Starting procedure

With the throttle completely closed, start the vehicle using either of the following:

- **Electric start :** Press the electric starter with fully closed throttle.
- **Kick start :** Kick from the top of the stroke through to the bottom with a rapid, continuous motion.

! CAUTION

If MIL remains "ON" even after the engine is started, there is an abnormality in the programmed FI system. It is recommended to reduce the speed and drive to the Authorised Hero MotoCorp ***workshop for check-up.***

NOTE

- ***This vehicle has a fuel-injected engine with an idle air control valve (IACV).***
- ***Do not turn the throttle while starting the engine. The engine will not start if the throttle is open because the Electronic control unit (ECU) cuts-off the fuel supply.***

Flooded engine

If the engine fails to start after repeated attempts, it may be flooded with excess fuel.

- Open the throttle fully.
- Press the electric starter switch for 5 seconds.
- Follow the normal starting procedure.
- If the engine starts with unstable idle, open the throttle slightly.
- If the engine does not start wait for 10 seconds, then follow first 3 steps again.

Ignition cut off

Your vehicle is designed to automatically stop the engine & fuel pump, if vehicle falls down.

(Bank angle sensor cuts off the ignition).

NOTE

If the vehicle has fallen down, before restarting the engine you must turn the ignition switch to "OFF" ( ) position and then back to "ON" ( ) position.

Running in

Help assure 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 and rapid acceleration.

NOTE

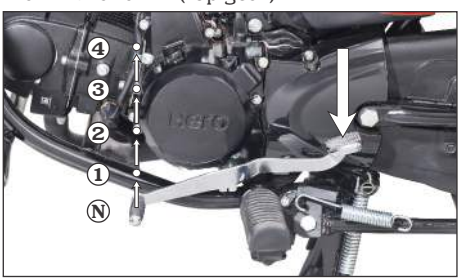
- ***To start the engine if any gear is engaged, press the clutch lever and press the starter switch.***
- ***Do not open the throttle while starting the vehicle.***

WARNING

Never run the engine in a enclosed area, the exhaust contains poisonous gases.

RIDING

- After the engine has been warmed up, the vehicle is ready for riding.
- While the engine is idling. press the clutch lever and lift the gearshift pedal from front to shift into 1st (low) gear.
- Slowly release the clutch lever and at the same time, gradually increase engine speed by opening the throttle. Coordination of the throttle and clutch lever will assure a smooth positive start.
- When the vehicle attains a moderate speed, close the throttle, press the clutch lever and shift to 2nd gear by depressing the gearshift pedal.
- The sequence is repeated progressively to shift 3rd and 4th (top gear).



CAUTION

Do not shift gears without operation of clutch and without closing the throttle otherwise this would lead to damage of gears.

BRAKING

- For normal braking, close the throttle and gradually apply both front and rear brakes simultaneously while shifting down gears to suit your road speed.
- For maximum deceleration/quick stopping, close the throttle and apply the front and rear brakes simultaneously.

For integrated braking system (IBS)

To stop the vehicle, press the rear brake pedal for the application of front and rear brakes simultaneously. However, for more effective braking, it is advised to apply front and rear brake simultaneously, keeping the throttle in closed position.

⚠ WARNING

- ***When riding in wet or rainy conditions, or on loose surfaces, apply front brake carefully after applying rear brake to avoid wheel slip.***
- ***Extreme braking may cause wheel locking and reduce control over the vehicle.***
- ***Wherever possible, reduce speed or apply brake before entering a turn, closing the throttle or braking in mid turn may cause wheel slip. Wheel slip will reduce control over the vehicle.***
- ***When riding in wet or rainy conditions, or on loose surfaces the ability to stop the vehicle reduces.***

⚠ WARNING

- ***All your actions should be smooth under these conditions. Sudden acceleration, braking or turning may cause loss of control. For your safety, exercise extreme caution when braking, accelerating or turning.***
- ***When descending a long steep slope use engine braking (power) by changing to lower gears, with intermittent use of both brakes. Continuous brake application can overheat the brakes and reduce their effectiveness.***

PARKING

After stopping the vehicle, shift the transmission to neutral, turn the ignition switch "OFF" (⊠), park the vehicle on main stand, lock the steering and remove the key.

! CAUTION

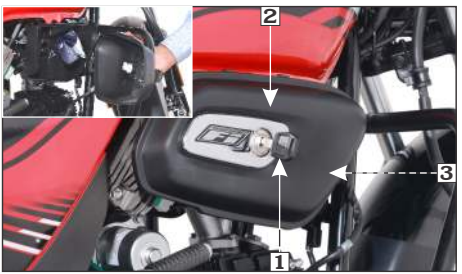
- ***Park the vehicle on firm level ground to prevent overturning.***
- ***While parking vehicle on side stand engage the first gear.***
- ***Do not park the vehicle under direct sunlight as it may cause paint to deteriorate.***

UTILITY BOX

To store some utility items a utility box has been provided.

To open, insert the key (1), rotate it clockwise, pull the cover (2), and slide it sideways to disengage it from the hook (3).

To close, engage the hook and press gently. Hold the key in clockwise direction, slide the cover back and release the key.



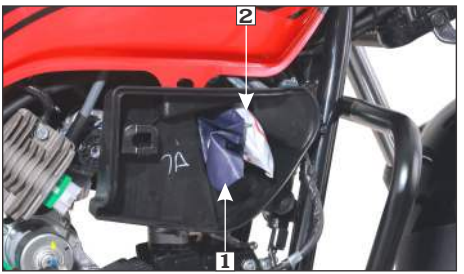
(1) Key (2) Cover (3) Hook

TOOL KIT/FIRST AID KIT

The tool kit (1) is stored in the utility box. Some emergency repairs, minor adjustments and parts replacement can be performed with the tools contained in the kit.

Kit consists of following tools:

- Tool bag
- +, – No. 2 driver
- Grip
- Box wrench P16x14
- Spanner 10x12
- Pin spanner



(1) Tool kit (2) First aid kit

The first aid kit (2) is stored in the utility box. For some emergency first aid can be performed by medicine contained in the kit.

Kit contains the following items:

- Antiseptic cream
- Sterilized dressing
- Waterproof plaster
- Elastic bandage
- Gauze (Rolled bandage)
- Sterilized elastic plaster
- First aid bag
- Hemostatic agent

CLEANING AND WASHING OF VEHICLE

Follow the below mentioned steps for washing the vehicle:

- Wet the vehicle with light water spray. Avoid directing water meter console, muffler outlets and electrical parts.
- Clean the headlamp lens and other 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.
- After cleaning, spray water thoroughly.
- Dry the vehicle by wiping with dry soft cloth.

NOTE

Do not use high pressure water (or air). It can damage certain parts of the vehicle.

MAINTENANCE

Importance of maintenance

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

To help you, take proper care of 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 Hero MotoCorp Dealer for recommendation applicable to your individual needs and use. If your vehicle overturns or is involved in a crash, be sure that you visit your Authorised Hero MotoCorp workshop for detailed inspections.

WARNING

- ***Improperly maintaining this vehicle or failing to correct a problem before you ride can cause a crash in which you can be seriously hurt or killed.***
- ***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 tool. It is recommended that wheel removal should normally be handled by a Hero MotoCorp authorised workshop.

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 ignition switch 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 Hero MotoCorp workshop knows your vehicle best and is fully equipped to maintain and repair it.

To ensure best quality and reliability, it is recommended to use Hero MotoCorp genuine parts for repair and replacement.

MAINTENANCE SCHEDULE

Perform the pre-ride inspection **(page 37)** at each scheduled maintenance period.

I: INSPECT C: CLEAN R: REPLACE A: ADJUST L: LUBRICATE E: EMISSION CHECK T: TOP-UP

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 Hero MotoCorp by properly trained and equipped technicians. Your Authorised Hero MotoCorp workshop meets all of these requirements.

Ensure that each paid service is availed within 180 days or 6000 km from the date of previous service, whichever is earlier.

To be serviced by your Authorised Hero MotoCorp workshop 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 Hero MotoCorp workshop.

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

Note-2 : Replace air cleaner element once in every 18000 km or early replacement may be required when riding in dusty areas.

Note-3 : Customer can visit Authorised Hero MotoCorp workshop in case tappet noise observed before 6000 km.

Note-4 : Replace engine oil at 1st service and in every 6000 km. Top up if the oil level is at or near the lower level mark.

Note-5 : Visit Authorised Hero MotoCorp workshop for inspection, cleaning, lubrication and adjustment of drive chain at every 2000 km.

Note-6 : Frequent lubrication of chain is recommended for better life of chain-when running dry or running in very sever dusty & wet/rainy condition.

Note-7 : Replace brake fluid once in a every 2 years or 30000 km, whichever is earlier.

Note-8 : More frequent cleaning and lubrication is needed when running in an unusually dusty and wet environment or rainy condition.

Note-9 : Inspect & maintain specified torque.

Note-10 : Inspect the bearings free play, replace if necessary.

Note-11 : Replace front fork oil once in a every 2 years or 30000 km, whichever is earlier.

Note-12 : Inspect for any play in the mounting bushes, replace if necessary.

Note-13 : Check CO emission at idle.

Note-14 : Inspect the canister hoses for deterioration, damage or loose connections and canister for cracks or other damages.

Note

- Always wipe the water from the vehicle after washing. Use clean soft cloth or pressurized air for completely drying off the water.
- Always use new gaskets, O-rings, circlips and cotter pins once removed.
- Do not mix "SAE 10W 30 SL grade and SAE 5W 30 SN grade" engine oil during oil change or top up.

Replacement of parts (e.g filters, etc.) and consumables (e.g engine oil, etc.) during paid or free service are at customer's expenses.

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	WHICHEVER COMES FIRST	#DURING FREE SERVICE PERIOD				DURING PAID SERVICE PERIOD ONCE IN EVERY 6000 KM	
		SERVICE	1st	2nd	3rd	4th		
		DAYS	1st 60	Next 180	Next 180	Next 180		
		KM Note-1	500-750	6000-6500	12000-12500	18000-18500	6000	12000
	Fuel Line		I	I	I	I	I	I
	Throttle Operation		I, A	I, A	I, A	I, A	I, A	I, A
	Air Cleaner Element	Note-2	Do not open air cleaner element unless there is a drivability problem			R	Do not open air cleaner element unless there is a drivability problem	
	Spark Plug		I, C, A	I, C, A	R	I, C, A	I, C, A	R
	Valve Clearance	Note-3	I, A	I, A	I, A	I, A	I, A	I, A
	Engine Oil	Note-4	R	R	R	R	R	R
	Engine Oil Strainer Screen		C	C	C	C	C	C
	Engine Oil Centrifugal Filter		C	C	C	C	C	C
	Electric Starter		I	I	I	I	I	I
	Oil Circulation		I	I	I	I	I	I
	Drive Chain	Note-5 & 6	I, C, L, A at every 2000 km				I, C, L, A at every 2000 km	
	Drive Chain Slider		I	I	I	I	I	I
	Battery Voltage		I	I	I	I	I	I
	Brake Shoe		I, A	I, A	I, A	I, A	I, A	I, A

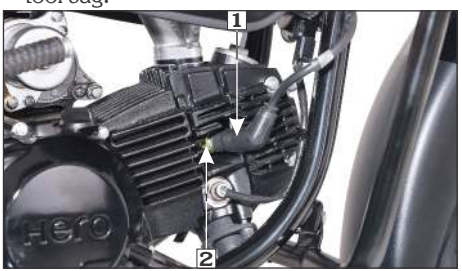
	ITEMS	WHICHEVER COMES FIRST	#DURING FREE SERVICE PERIOD				DURING PAID SERVICE PERIOD ONCE IN EVERY 6000 KM	
		SERVICE	1st	2nd	3rd	4th		
		DAYS	1st 60	Next 180	Next 180	Next 180		
		KM Note-1	500-750	6000-6500	12000-12500	18000-18500	6000	12000
	Brake Pad		I	I	I	I	I	I
	Brake Fluid	Note-7	I, T	I, T	I, T	I, T	I, T	I, T
	Brake System (Brake Cam & Brake Pedal)	Note-8		C, L	C, L	C, L	C, L	C, L
	IBS Cable		I, A	I, A	I, A	I, A	I, A	I, A
	Stop Lamp Switch		I, A	I, A	I, A	I, A	I, A	I, A
	Headlamp Focus		I, A	I, A	I, A	I, A	I, A	I, A
	Clutch Lever Free Play		I, A	I, A	I, A	I, A	I, A	I, A
	Side Stand Pivot Bolt		C, L	C, L	C, L	C, L	C, L	C, L
	Rear Brake Pedal/ Main Stand Pivot	Note-8	C, L	C, L	C, L	C, L	C, L	C, L
	Side Stand Switch		I, C	I, C	I, C	I, C	I, C	I, C
	i3s System		I	I	I	I	I	I
	Nut, Bolts & Fasteners	Note-9	I	I	I	I	I	I
	Wheels Bearings	Note-10	I	I	I	I	I	I
	Wheel/Tyres		I	I	I	I	I	I
	Steering Head Bearing		I	I, A	I, L, A	I, A	I, A	I, L, A
	Front Suspension/Oil	Note-11	I	I	I	I	I	I
	Rear Suspension	Note-12	I	I	I	I	I	I
	Muffler (Catalytic Converter)	Note-13		I, E	I, E	I, E	I, E	I, E
	Evaporative Emission Control System	Note-14	I	I	I	I	I	I

SPARK PLUG INSPECTION

Recommended spark plugs: NGK-CR7HSA, BOSCH-UR4AC, Champion-P-RZ9HC (Federal Mogul)

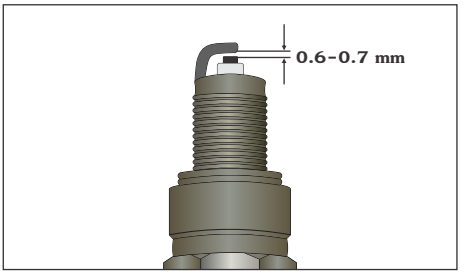
For most riding conditions this spark plug heat range number is satisfactory. However, if the vehicle is going to be operated for extended periods at high speeds or near maximum power in hot climates, the spark plug should be changed to a cold heat range number, consult Authorised Hero MotoCorp workshop on this if required.

- Clean any dirt around the spark plug base.
- Disconnect the noise suppressor cap (1) and remove the spark plug (2) with the help of spark plug box wrench provided in the tool bag.



(1) Noise suppressor cap (2) Spark plug

- Visually inspect the spark plug electrodes for wear. The center electrode should have square edges and the side electrode should not be eroded. Discard the spark plug if there is apparent wear or if the insulator is cracked or chipped.



- Make sure that the spark plug gap is **0.6-0.7 mm** using a wire-type feeler gauge. If adjustment is necessary, bend the side electrode carefully. Make sure the plug washer is in good condition.
- 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 spark plug wrench to compress the washer. If you are reusing a plug, it should only take 1/8-1/4 turn after the plug seats.

! CAUTION

- ***Do not remove the spark plug and test for spark on the vehicle by cranking the engine as this could lead to fire or explosion***
- ***Install a dummy spark plug in the cylinder head and test for spark.***
- ***Never use a spark plug with improper heat range.***
- ***Always use resistor type spark plug.***

ENGINE OIL

Use hero genuine engine oil or recommended grade oil.

BRAND: Hero 4T plus
GRADE: SAE 10W 30 SL Grade (JASO MA2).

Manufactured by:

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

Oil CAPACITY: 1.15 litres (at disassembly)
: 1.0 litre (at oil change)

BRAND: Hero 4T plus
GRADE: SAE 5W 30 SN Grade (JASO Ma2).

Manufactured by:

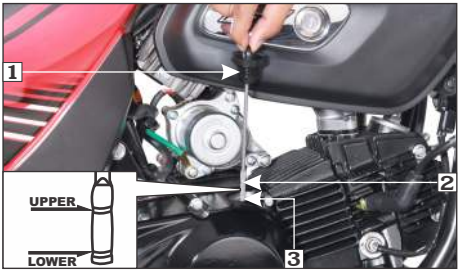
- Tide Water Oil Co. (India) Ltd.
- Castrol

Engine oil level inspection/Top up process

Check engine oil level each day before operating the vehicle.

The oil level dipstick (1) is on the right crankcase cover for measuring oil level. Oil level must be maintained between the upper (2) and lower (3) level marks on the oil level dipstick.

Do top up if oil level reaches towards the lower level mark.



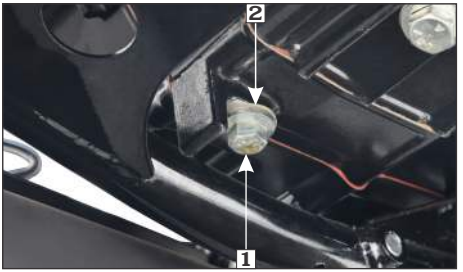
1. Oil level dipstick 2. Upper level mark
3. Lower level mark

- Park the vehicle on its main stand.
- Start the engine & let it idle for 3-5 minutes.
- Stop the engine and wait for 2-3 minutes.
- Remove the oil level dipstick, wipe it clean and insert without screwing it in.
- Remove the oil level dipstick and check the oil level.
- If required, add the specified oil up to the upper level mark. Do not overfill.
- Reinstall the oil level dipstick and check for oil leaks.

Engine oil replacement process/ Oil circulation inspection

Drain engine oil with the engine warm and the vehicle on its main stand.

- To drain the oil, remove the oil level dipstick and drain bolt (1) with sealing washer (2).
- After the oil has completely drained, reinstall the drain bolt with a new sealing washer.
- Clean the strainer filter and centrifugal oil filter.
- Fill the crankcase through the oil filler hole with 1 litre (approximately) of the recommended grade oil as the right crankcase cover is not removed.
- Reinstall the oil level dipstick with a new O-ring.
- Start the engine and allow it to idle for few minutes.
- Stop the engine, let the engine oil settle down and recheck the oil level.
- Make sure that oil level is at the "UPPER" level mark **(page 49)** of the oil level dipstick with the vehicle in an upright position and that there are no oil leaks.



(1) Drain bolt **(2) Sealing washer**

! CAUTION

- ***Running the engine with insufficient oil can cause serious engine damage.***
- ***Running the engine with excessive oil can cause spark plug fouling & loss in performance.***
- ***Engine oil is a major factor affecting the performance and service life of the engine. Non-detergent, vegetable or castor based racing oils are not recommended.***

OIL FILTER SCREEN & CENTRIFUGAL FILTER

Oil filter screen and centrifugal filter need to be cleaned periodically as per the maintenance schedule **(page 45)**.

It is advised that you visit your Authorised Hero MotoCorp workshop for this type of service.

AIR CLEANER

Air cleaner element inspection

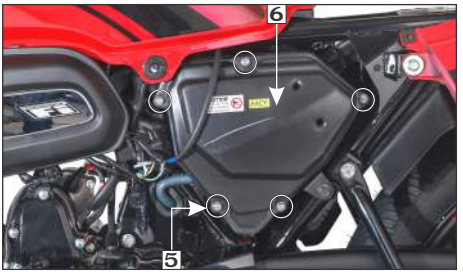
The air cleaner element is viscous type, it should be replaced at specified intervals **(page 45).** Early replacement may be required when riding in unusually wet or dusty area.

- Remove the seat **(page 35).**
- Remove the left side cover screws (1) and remove the side cover (2) by releasing the tab from the slot (3) and lug from the grommet (4).



(1) Left side cover screws (2) Side cover
(3) Tab/slot (4) Lug/grommet

- Remove the air cleaner cover screws (5) and the air cleaner cover (6).



(5) Air cleaner cover screws
(6) Air cleaner cover

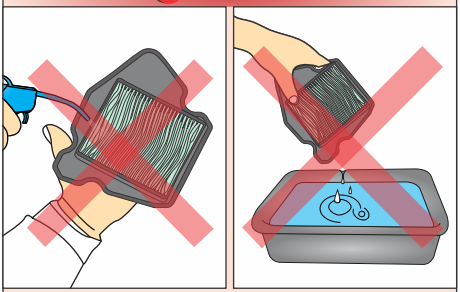
- Remove the air cleaner element (7) from air cleaner housing (8).



(7) Air cleaner element
(8) Air cleaner housing

- Clean the air cleaner housing using a shop towel.
- Install the new air cleaner element as per maintenance schedule
- Install the air cleaner element cover.
- Install the left side cover.

! CAUTION



- ***Never wash or clean the viscous filter. Replace filter element once in every 18000 km.***
- ***Replace it earlier if the air cleaner:***
  - ***Becomes very dirty.***
  - ***Gets damaged on the surface.***
  - ***Sealing area gets damaged.***

Air cleaner drain tube plug cleaning

Remove the drain tube (1) and drain the deposit into a container.

Follow the above process more frequently when riding in rain or at full throttle.



(1) Drain tube

VALVE CLEARANCE ADJUSTMENT

Engine valve clearance changes with use, which may result in improper air–fuel mixture and/or engine noise. To prevent this, the valve clearance must be adjusted at Authorised Hero MotoCorp workshop at the intervals specified in the maintenance schedule **(page 45)**.

NOTE

- ***The checking or adjusting of valve clearance should be performed while the engine is cold. The clearance will change as the engine temperature rises.***
- ***Customer can visit Authorised*** Hero MotoCorp ***workshop in case tappet noise observed before 6000 km.***

CLUTCH LEVER FREE PLAY

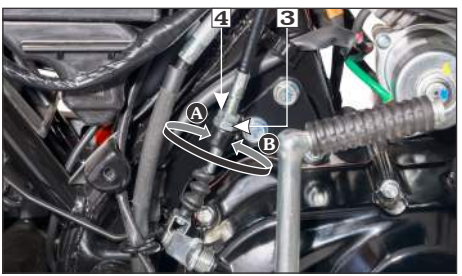
Adjustment

Clutch adjustment may be required if the vehicle stalls when shifting into gear or tends to creep or if the clutch slips, causing acceleration to lag behind engine speed.

Normal clutch lever free play (1) is 10-20 mm at the lever (2).



(1) Free play: 10-20 mm (2) Clutch lever



(3) Clutch cable adjusting nut (4) Lock nut
(A) Decrease free play (B) Increase free play

- Remove the right side cover **(page 67).**
- To adjust the free play, loosen the lock nut (3). Turn the adjusting nut (4) to obtain the specified free play. Tighten the lock nut and check the adjustment.
- Start the engine, press the clutch lever and shift into gear. Make sure the engine does not stall, and the vehicle does not creep. Gradually release the clutch lever and open the throttle. The vehicle should start smoothly and accelerate.

Other checks

- Check the clutch cable for kinks or signs of wear that could cause sticking or failure.
- Check for clutch cable model. Use genuine clutch cables.
- Check for clutch cable routing.

NOTE

If proper adjustment cannot be obtained or the clutch does not work correctly, visit your Authorised Hero MotoCorp ***workshop.***

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 throttle body. 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.

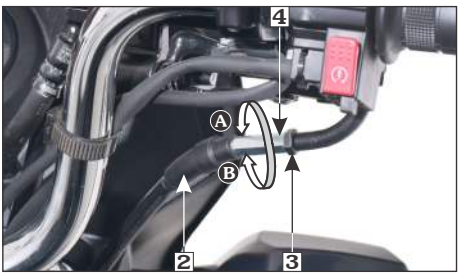


(1) Free play: 2-6 mm

Free play adjustment

(a) At handlebar side

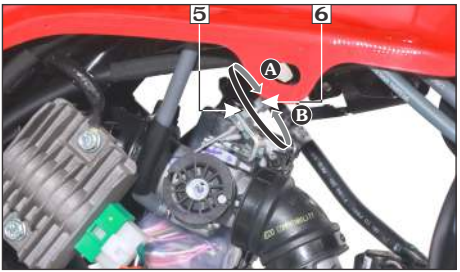
To adjust the free play, slide the boot (2), loosen the lock nut (3) and turn the adjuster (4). If the specified free play is not achieved, adjust the free play on throttle body side.



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

(b) At throttle body side

Loosen the lock nut (5). Turn the adjusting nut (6) to obtain the specified free play. Tighten the lock nut and check the adjustment.



(5) Lock nut (6) Adjuster
(A) Decrease free play (B) Increase free play

DRIVE CHAIN SLACKNESS

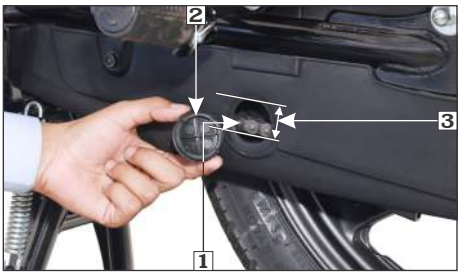
The service life of the drive chain depends upon proper lubrication and adjustment.

Poor maintenance can cause premature wear or damage to the drive chain and sprockets.

The drive chain (1) should be checked and lubricated as part of the pre-ride inspection **(page 37).** Under severe usage, or when the vehicle is ridden in unusually dusty areas. more frequent maintenance will be necessary.

Inspection

- Turn the engine "OFF", park the vehicle on its main stand and shift the transmission to neutral. Remove hole cap (2).
- Drive chain slack (3) should be adjusted to allow approximately 25 mm vertical movement by hand.

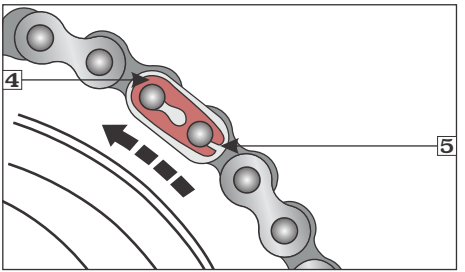


(1) Drive chain (2) Hole cap
(3) Drive chain slack: 25 mm

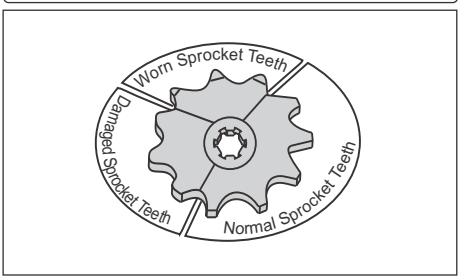
Rotate the wheel and check drive chain slack as the wheel rotates. Drive chain slack should remain constant as the wheel rotates.

If the chain is slack in one section and tight in another, some links are kinked and binding. Binding can be eliminated by frequent lubrication.

- Turn the chain to view chain lock plate (4) inside the hole. Ensure that the chain lock plate open end (5) is installed in the opposite direction of the chain rotation.



(4) Chain lock plate (5) Open end



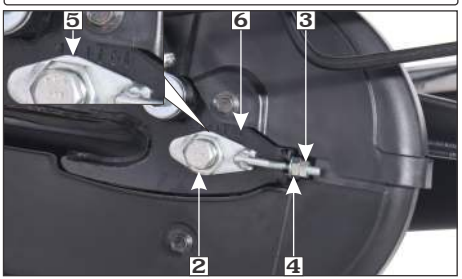
- Inspect the sprocket teeth for wear or damage.
- If the drive chain or sprockets are excessively worn or damaged, they should be replaced. Never use a new chain with worn out sprockets since this will result in rapid chain wear.

Adjustment

- Park the vehicle on its main stand with the transmission in neutral and the ignition switch in "OFF" position.
- Loosen the rear axle nut (1) and sleeve nut (2). Loosen both the drive chain lock nuts (3).



(1) Rear axle nut



(2) Sleeve nut (3) Drive chain lock nut
(4) Drive chain adjusting nut (5) Index mark
(6) Scale graduation

- Turn both the adjusting nuts (4) in an equal number of turns until the correct drive chain slack is obtained. Turn the adjusting nut clockwise to decrease the slack or anticlockwise to increase the slack of the chain.
- Align the chain adjuster index mark (5) with the corresponding scale graduations (6) on both the sides of the swing arm equally.
- If the drive chain slack is excessive when the rear axle is moved to the farthest limit of adjustment, the drive chain is worn and must be replaced. Tighten the sleeve nut and rear axle nut.
  - **Sleeve nut torque: 4.4 kgf-m**
  - **Rear axle nut torque: 5.4 kgf-m**
- Check the drive chain slack again.
- Rear brake pedal free play and stop lamp switch free play are affected when repositioning the rear wheel to adjust drive chain slack. Check rear brake pedal free play and adjust as necessary **(page 58)**.

Lubrication

- Turn the engine "OFF", park the vehicle on its main stand and shift the transmission into neutral.
- Lubricate the drive chain by applying liberal amount of chain lube.

! CAUTION

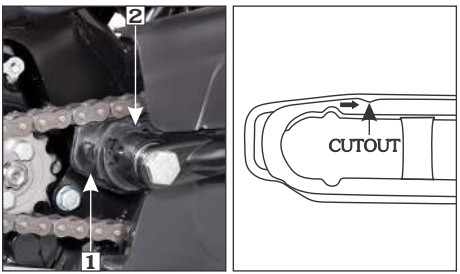
Regular adjustment and lubrication as per the maintenance schedule would ensure high performance and longer life.

NOTE

Visit Authorised Hero MotoCorp ***workshop for inspection, cleaning, lubrication and adjustment of drive chain at every 2000 km.***

DRIVE CHAIN SLIDER INSPECTION

(Refer to "Maintenance Schedule" on **(page 45)**.



(1) Drive chain slider **(2) Wear limit**

Check the drive chain slider (1) for wear, the chain slider must be replaced if it is worn to the bottom of the cutout or wear limit (2) is reached. For replacement, visit your Authorised Hero MotoCorp workshop.

BRAKES

Brakes (Integrated braking system)

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

When one applies the Integrated/Rear brake pedal, front & rear brakes activate jointly.

(a) Front brake inspection

Master Cylinder/Reservoir.

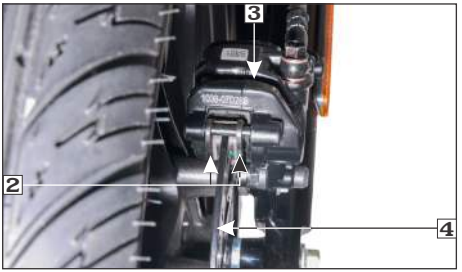
Location: Right handlebar.

Brake fluid recommended: DoT 3 or DoT 4

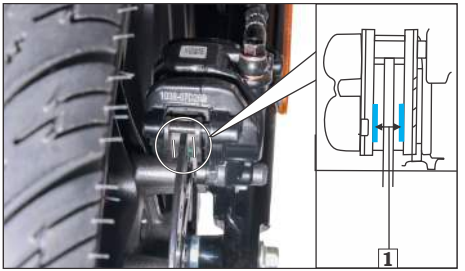
Fluid level–Ensure that the brake fluid level does not fall below "MIN" mark (1) on the master cylinder, when checked with the master cylinder parallel to the ground. The level decreases gradually due to piston movement to compensate for pad wear. If the level decreases abruptly, check for leakage in the brake system and contact your Authorised Hero MoroCorp workshop.



(1) "MIN" mark



(2) Brake pads (3) Caliper (4) Disc



(1) Wear indicator groove

NOTE

- ***Clean the dirt and mud accumulation between the brake pads (2), caliper (3) and the disc (4) using a water jet.***
- ***Always contact your Authorised*** Hero MoroCorp ***workshop for refilling of master cylinder when necessary. Do not mix DoT 3 and DoT 4 brake fluid.***

(b) Brake pad wear

Brake pad wear depends upon the severity of usage, the type of riding & road conditions. Generally, the pads will wear faster on wet & dirty roads. Inspect the pads at each regular maintenance interval.

Inspection

- Check the wear indicator grooves (1) on each pad.
- Check the brake pads for wear by examining the wear limit grooves on each pad.
- Replace the pads if worn out to the bottom of the groove.
- Always replace both the pads as a set.
- Visit your Authorised Hero MoroCorp workshop for the brake pad replacement.

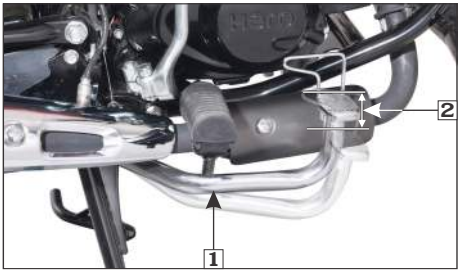
WARNING

Always apply front and rear brakes simultaneously to avoid skidding of vehicle.

(c) Rear brake inspection

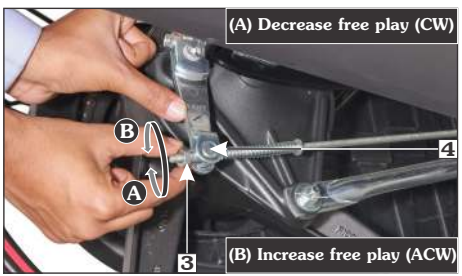
Adjustment

- Park the vehicle on its main stand.
- Measure the brake pedal (1) free play before the brake starts to take hold.
  Free play (2) should be 20-30 mm.



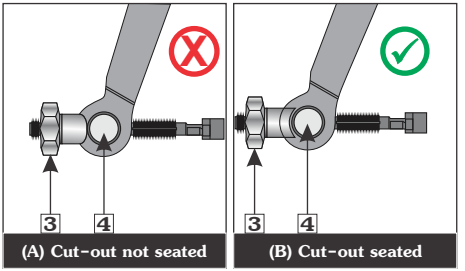
(1) Rear brake pedal
(2) Free play: 20-30 mm

- If adjustment is necessary, turn the rear brake adjusting nut (3).
- Make sure that the cut-out on the adjusting nut is seated on the brake joint pin (4) after the final adjustment has been made.



(3) Adjusting nut (4) Brake joint pin

CW- Clockwise, ACW- Anticlockwise



(3) Adjusting nut (4) Brake joint pin

- Apply the brake several times and check for free wheel rotation when released.

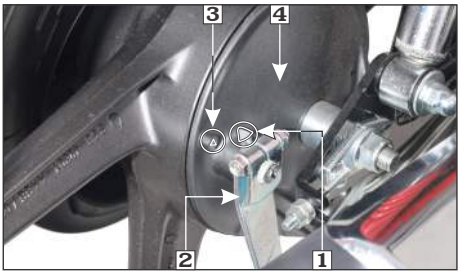
NOTE

If proper adjustment cannot be obtained by this method, visit your Authorised Hero MotoCorp ***workshop.***

(d) Brake wear indicators

When the brake is applied, an arrow (1), fixed to the brake arm (2), moves towards a reference mark (3) on the brake panel (4). If the arrow aligns with the reference mark on full application of the brake, the brake shoes must be replaced.

Rear brake wear indication



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

SUSPENSION

Front and rear 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.



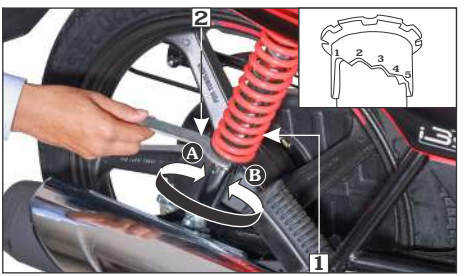
- Check the rear shock absorber by pushing hard downwards on rear grip while the vehicle is not parked on stand. The suspension action should be smooth and there should be no oil leakage.

Rear shock absorber adjustment

Rear shock absorber adjustment can be made in any position from 1st to 5th according to the load/road conditions or owner's requirement.

Recommend adjustment

- Solo rider : 2nd position
- Rider + Pillion: 5th position



(1) Rear shock absorber	**(2) Pin spanner**
(A) Stiffer	**(B) Softer**

- In direction A: Stiffer
- In direction B: Softer

NOTE

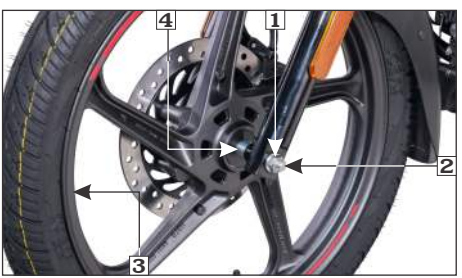
Always adjust both the rear shock absorbers to the same position. To adjust the rear shock absorber (1), use the rear shock absorber adjustment tool (Pin spanner) (2) available in the tool kit.

WHEEL

(a) Front wheel

Removal

- Support the vehicle securely on the main stand and raise the front wheel off the ground.
- Remove the front axle nut (1).
- Remove the axle (2) and the wheel (3).
- Remove the side collar (4) from the right side of the wheel hub.



(1) Axle nut **(2) Axle**
(3) Wheel **(4) Side collar**

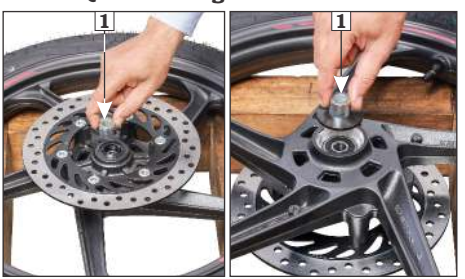
CAUTION

Do not operate front brake lever when the wheel is removed.

Installation

- Install the side collars (1) to both sides of the wheel hub.
- Position the front wheel between the fork legs by aligning the slot with lug on the fork leg and the disc between the brake pads to avoid damage to the pads. Insert the axle from the right side through the fork legs and wheel hub.
- Tighten the front axle nut to the specified torque.

TORQUE : 5.2 kgf-m



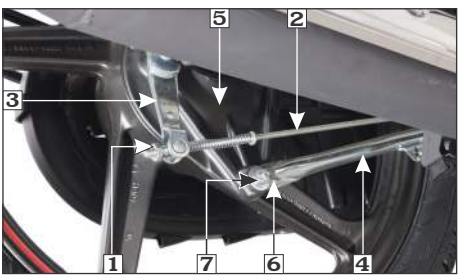
(1) Side collar

- After installing the wheel apply the brake several times and then check if the wheel rotates freely. Recheck the wheel if the brake drags or if the wheel does not rotate freely.

(b) Rear wheel

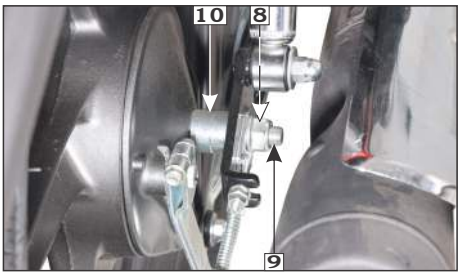
Removal

- Support the vehicle securely on the main stand and raise the rear wheel off the ground.
- Remove the rear brake adjusting nut (1) and disconnect the brake rod (2) from the brake arm (3) by pushing down the brake pedal. Disconnect the brake stopper arm (4) from the brake panel (5) by removing split pin (6) and lock nut (7).



(1) Rear brake adjusting nut (2) Brake rod (3) Brake arm (4) Brake stopper arm (5) Brake panel (6) Split pin (7) Lock nut

- Remove the rear axle nut (8).
- Pull out the axle (9) and collar (10).
- Remove the wheel.



(8) Axle nut (9) Axle (10) Collar

Installation

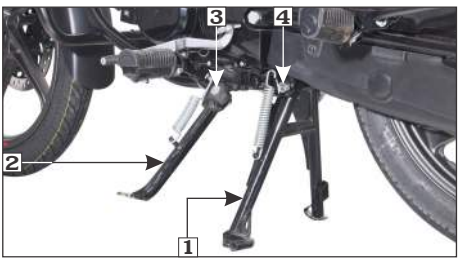
- Reverse the removal procedure
  Axle nut torque: 5.4 kgf-m.
  Brake stopper arm nut torque: 2.2 kgf-m
- Adjust the rear brake free play **(page 58)** and drive chain slackness **(page 54)**.
- After installing the wheel, apply the brake several times and check for free wheel rotation when released.

! CAUTION

Always replace used split pins with new ones.

MAIN/SIDE STAND LUBRICATION

- Park the vehicle on the level surface.
- Check the main/side stand return spring for damage or loss of tension.
- Check the main stand (1)/side stand (2) for freedom of movement.
- Clean and lubricate the side stand pivot bolt (3) and rear brake pedal/main stand pivot (4).
- Make sure the side/main stand is not bent.



(1) Main stand **(2) Side stand**
(3) Side stand pivot bolt
(4) Rear brake pedal/Main stand pivot

TUBELESS TYRES

The tyres fitted on your vehicle are of TUBELESS type.

To safely operate your vehicle, your 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 your tyres for damage, and what to do when your tyres need to be repaired or replaced.

Front	80/100-18 47P (Tubeless tyre)
Rear	80/100-18 54P (Tubeless tyre)

⚠ WARNING

- ***Using 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 your 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.

Under inflated tyres can also cause wheel damage in rocky terrain.

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 your tyres before every ride and use an air pressure gauge (1) to measure air pressure at least once a month or any time you think the tyres pressure might be low.



(1) Air pressure gauge

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 km-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	1.75 kgf/cm^2 (25 psi)	1.75 kgf/cm^2 (25 psi)
Rear	2.00 kgf/cm^2 (28 psi)	2.32 kgf/cm^2 (33 psi)

! CAUTION

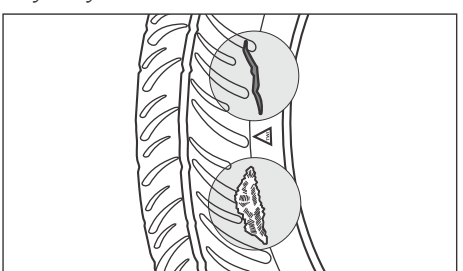
Over inflation/Under inflation will affect the performance.

Inspection

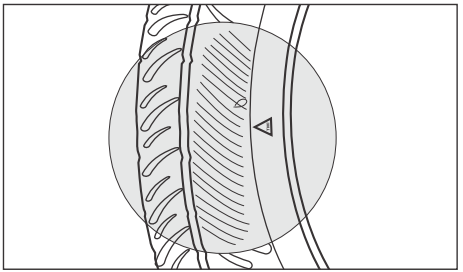
Whenever you check the tyre pressure, you should also examine tyre treads & side walls for wear, damage & foreign objects.

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.

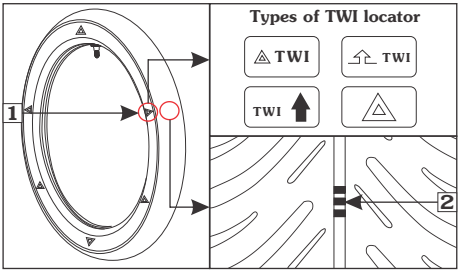
Tread wear

Tread Wear Indicator (TWI) allows you to inspect whether the tyres are worn. First, find the Tread Wear Indicator locator arrow mark (1) on the sidewall of the tyre. The tread wear indicator (2) is present directly in front of the arrow mark in the middle of the tyre inside the groove of tyre tread. It can be a single raised rubber strip or a group of raised rubber strips. Inspect all tread wear indicators on the tyre.

If the tyre treads are worn down to the level of tread wear indicator near any indicator, the tyre must be replaced.

MINIMUM TREAD DEPTH:

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



(1) TWI locator arrow mark (2) TWI

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, Hero MotoCorp authorised dealer/workshop 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.***

NOTE

For repair and replacement of tyre it is advised to visit your Authorised Hero MotoCorp ***workshop.***

NOTE

The imported tyre(s) if fitted without ISI mark; are in compliance of BIS standard and Central Motor Vehicle Rules 1989, as declared by the Tyre manufacturer.

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.

NUTS, BOLTS & FASTENERS

- Tighten bolts and nuts at regular interval shown in the maintenance schedule.
- Check that all chassis nuts and bolts are tightened to correct torque values.
- Check that all cotter pins, safety clips, hose clamps and cable stays are in place.



BATTERY

Location

The battery is located behind the right side cover.

Specification

***MF Battery, 12V 3 Ah/ETZ-4**

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 electrolyte is leaking (causing hard starting or other electrical troubles), contact your Authorised Hero MotoCorp workshop.

***MF stands for Maintenance Free**

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 Hero MotoCorp workshop 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

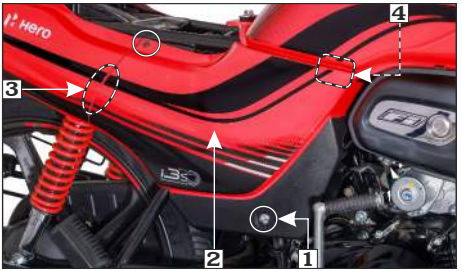
Always visit your Authorised Hero MotoCorp workshop if you see any symptom of battery discharge as earliest as possible to get the battery charged. The battery has a tendency to discharge rapidly if optional electrical accessories are fitted on the vehicle.

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 then two months, ensure to fully charge the battery once a month.
- Always ensure the battery is fully charged before installation.
- Ensure the battery leads are properly connected to the battery terminals during installation.

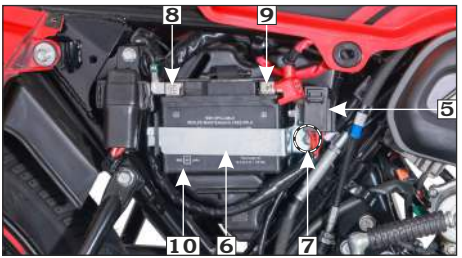
Battery removal

- Make sure the ignition switch is "OFF" (⊠).
- Remove the seat **(pages 35)**.
- Remove the right side cover screws (1) and remove the side cover (2) by releasing the tab from the slot (3) and lug from the grommet (4).



(1) Right side cover screws (2) Side cover
(3) Tab/slot (4) Lug/grommet

- Dismount the fuse box (5) from the battery clamp (6). Remove the battery clamp by removing the bolt (7).
- Disconnect the negative (–)ve terminal lead (8) from the battery first, then disconnect the positive (+)ve terminal lead (9). Pullout the battery (10) from the battery box.



(5) Fuse box (6) Battery clamp (7) Bolt
(8) (–)ve terminal (9) (+)ve terminal
(10) 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 all fasteners are secured properly.

NOTE

After installing the battery, wait for 5 seconds before turning the ignition switch "ON"

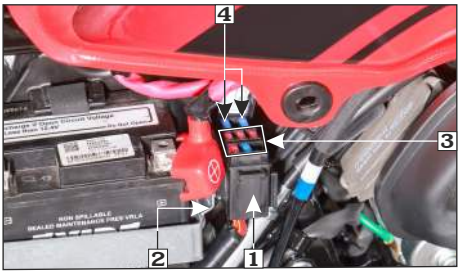
FUSE REPLACEMENT

Fuse box (1)**:** Location: Mounted on the battery clamp (2).

Fuse type: Blade fuse

In circuit fuse (3) : 15A, 10Ax4

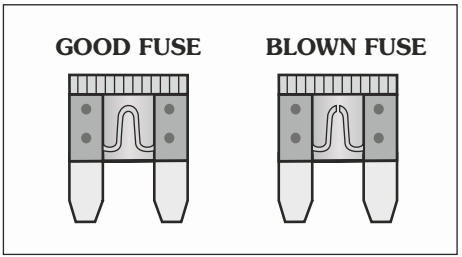
Spare fuse (4) : 15Ax2



(1) Fuse box (2) Battery clamp
(3) In circuit fuse: 15A, 10Ax4
(4) Spare fuse: 15Ax2

⚠ 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.



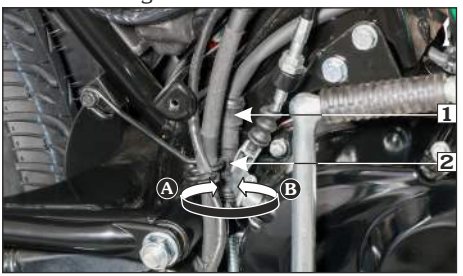
! CAUTION

- ***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.***

STOP LAMP SWITCH

The stop lamp switch (1) must be adjusted so that stop lamp will glow when rear brake is applied. Rear brake free play **(page 52)** should be adjusted before performing stop lamp switch adjustment. The procedure for adjusting stop lamp switch is as follows:

- Turn the ignition switch to the "ON" (Ω) position.
- Remove the right side cover **(page 66).**
- Turn the adjusting nut (2) to position stop lamp switch at a point where the stop lamp will glow just before the brake pedal is depressed to the limit of its free play. Turn the adjusting nut in direction (A) to advance switch timing or in direction (B) to retard switch timing.



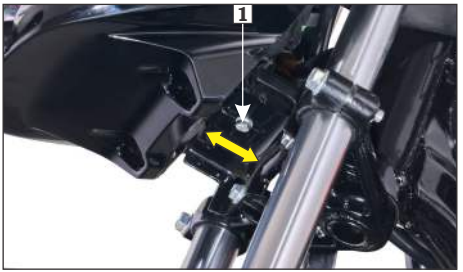
(1) Stop lamp switch **(2) Adjusting nut**
(A) Advance **(B) Retard**

HEADLAMP FOCUS ADJUSTMENT

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

- Headlamp adjustment is done by the headlamp adjusting bolt (1) located below headlamp.
- Park the vehicle on its level ground.
- Turn the ignition switch to "ON" position (Ω) and start the engine.

- Adjust the headlamp beam vertically by loosening the bolt & move the headlamp unit forward & backward for correct focus adjustment.



(1) Headlamp adjusting bolt

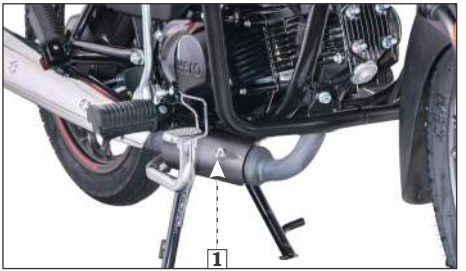
⚠ WARNING

An improperly adjust headlamp may blind oncoming rider/driver or it may fail to light the road for a safe distance.

CATALYTIC CONVERTER

This vehicle is equipped with the catalytic converter (1) in the muffler to meet the emission norms.

The catalytic converter contains precious metals that serve as catalysts, promoting chemical reactions to convert the exhaust gases without affecting the metals. The catalytic converter acts on HC, CO and NOx.



(1) Catalytic converter

The catalytic converter must operate at a high temperature for the chemical reactions to take place. It can set on fire any combustible material that comes near it. Park your vehicle away from high grasses, dry leaves, or other flammable material.

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 in good running condition. A poorly running engine can cause the catalytic converter to overheat.

- If your engine is misfiring, backfiring, stalling, or otherwise not running properly, stop riding and turn "OFF" the engine. Have your vehicle serviced as soon as possible.

EVAPORATIVE EMISSION CONTROL SYSTEM

This vehicle is equipped with an evaporative emission control system to meet emission standards. During warm weather, the petrol vapours which contain HC evaporates easily into the atmosphere from the fuel tank, if the fuel system is unsealed or open. The evaporative emission control system is used to prevent petrol vapours from escaping into the atmosphere from fuel tank.

The canister (1) collects the fuel vapour from the fuel tank, which gets drawn into the engine for combustion. This prevents pollution that would otherwise have been caused by diffusion of fuel vapour directly into the atmosphere.



(1) Canister

POLISHING OF VEHICLE

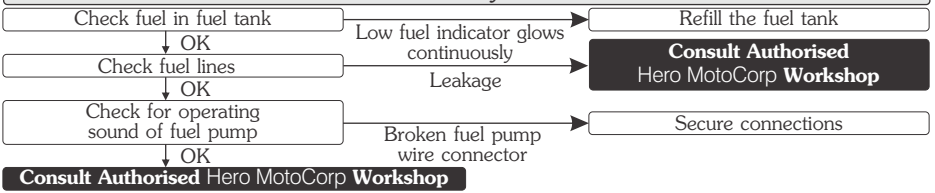
After washing your vehicle, wax all painted surfaces (except matte painted surfaces) using a commercially available polish/quality liquid or paste wax to finish the job. Use only a non abrasive polish or wax made specifically for automobiles. Apply the polish or wax according to the instructions on the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

NOTE

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

1. STARTING TROUBLE – ENGINE DOES NOT START

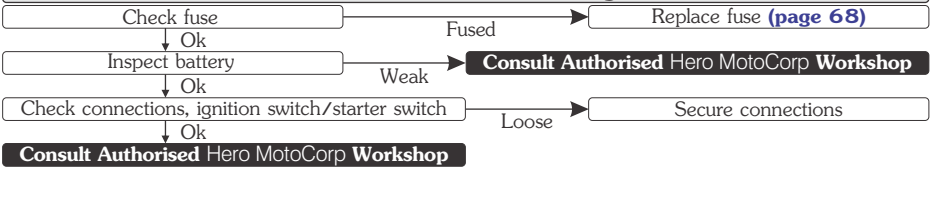
A. Fuel system



B. Side Stand Engine Kill System



C. Electric starter not working



D. No spark at spark plug

Check ignition switch → "OFF" → Turn ignition switch "ON"

↓ 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 Hero MotoCorp **Workshop**

2. ENGINE STARTS BUT STALLS

Check fuel lines → Leakage → **Consult Authorised** Hero MotoCorp **Workshop**

↓ OK

Check air cleaner element → Dirty → Replace

↓ OK

Consult Authorised Hero MotoCorp **Workshop**

3. POOR PICK UP

Spark plug loose in cylinder head → Loose → Tighten the spark plug

↓ Ok

Check air cleaner element → Clogged → Replace

↓ Ok

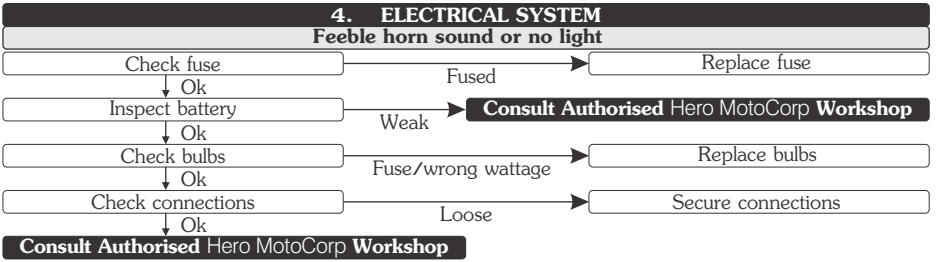
Check brake binding → Improper adjustment → Readjust free play of rear brake pedal

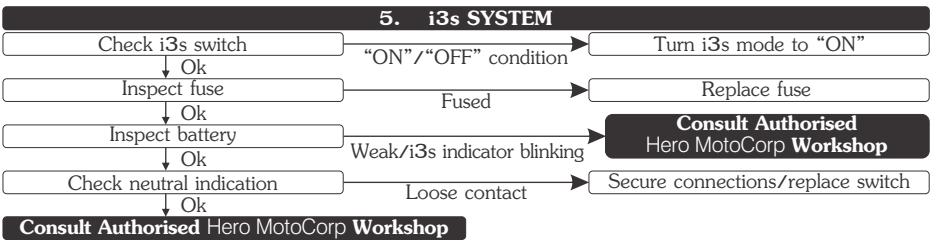
↓ Ok

Check tyre inflation pressure → Under inflated → Correct tyre pressure

↓ Ok

Consult Authorised Hero MotoCorp **Workshop**


4. ELECTRICAL SYSTEM
Feeble horn sound or no light
Check fuse
Fused
Replace fuse
Ok
Inspect battery
Weak
Consult Authorised Hero MotoCorp Workshop
Ok
Check bulbs
Fuse/wrong wattage
Replace bulbs
Ok
Check connections
Loose
Secure connections
Ok
Consult Authorised Hero MotoCorp Workshop


5. i3s SYSTEM
Check i3s switch
"ON"/"OFF" condition
Turn i3s mode to "ON"
Ok
Inspect fuse
Fused
Replace fuse
Ok
Inspect battery
Consult Authorised Hero MotoCorp Workshop
Weak/i3s indicator blinking
Ok
Check neutral indication
Loose contact
Secure connections/replace switch
Ok
Consult Authorised Hero MotoCorp Workshop

ROAD SIGNS

Mandatory signs: These road signs inform drivers/riders of the traffic rules that apply on a certain stretch of road, thereby instructing them on how to drive/ride. Mandatory signs are distinguished by the bright red circle with black and blue markings. It is imperative that all riders follow these signs as they help avoid accidents. Their violation can be penalised under the Motor Vehicle Act.

Mandatory


Stop


Give Way


One Way


No Horn


No Bicycles


No Automobiles


No Hand Cart


No Pedestrians


No Right Turn


No 'U' Turn


Overtaking Prohibited



Speed Limit


No Stopping or Standing


No Parking



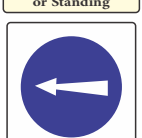
Length Limit



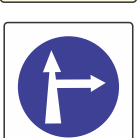
High Limit


Restriction Ends


Compulsory-Ahead Only


Compulsory-Turn Left


Compulsory-Right Ahead


Compulsory-Ahead or Turn Right


Compulsory-Keep Left


Compulsory-Bicycle Track


Compulsory-Sound Horn

ROAD SIGNS



Cautionary signs: These signs inform the driver/rider of the road conditions ahead. Cautionary signs therefore serve as a warning. They are usually in a red triangle with black pictures on a white background. Illustrations, diagrams and symbols are used to forewarn about dangers ahead. Cautionary road signs are as important as mandatory signs. However, the violation of cautionary signs does not attract penalty.

Cautionary


Right Hand Curve


Right Reverse Bend



Incline Ahead


Narrow Road Ahead


Narrow Bridge


Pedestrian Crossing


School Ahead


Gap in Medium


Cross Road


Men at Work


Roundabout


Hump Road

ROAD SIGNS



Informatory signs: These are facility signs that provide important information about road directions are maps of specific destinations. On highways, they provide information about the location of public telephones, restaurants, hospitals, parking, petrol pumps, resting-places and more. These signs are usually rectangular, with black or white pictures on a blue background.

Informatory




Hospital


First Aid Post


Petrol Pump

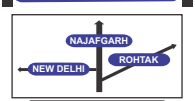

Eating Place


Resting Place


Public Telephone



Place Identification Place



Destination Sign


Light Refreshment

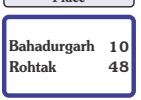

Taxi Stand


Parking Both Sides


Parking This Side


No Through Road


No Through Side Road



Re-assure Sign

Signs and Signals are language of the road. Learn them, respect them.

Hero MotoCorp Ltd.

WARRANTY

Scope of warranty

Hero MotoCorp Ltd. (hereinafter called 'Hero MotoCorp') warrants its **PASSION+** vehicles, assembled/manufactured in its Plants and sold through its channel partners, to be free from any defect – both in material and workmanship, under normal use and conditions, subject to the following terms & conditions.

Terms & conditions

a) **PASSION+** vehicle is warranted for a period of **5 years or 70000 Km**, whichever is earlier, from the date of purchase, emission warranty is separately covered under the head of "Emission Warranty".

b) It is advised that the purchaser avails all free and paid services from the Hero MotoCorp's authorized workshop as per the recommended schedule, to be eligible for warranty benefits. Each paid service should be availed within **180** days from the date of previous service or as per the recommended schedule, whichever is earlier.

c) If any problem is observed in **PASSION+** vehicle, Hero MotoCorp's only obligation/liability is to repair or replace that part/those parts which is/are considered to be the cause of such problem, provided however that such problem has not resulted due to misuse/improper handling etc. of the vehicle. Any **PASSION+** vehicle needing repair should be brought to Hero MotoCorp's authorized workshop for necessary inspection and carrying out rectification job.

LIMITATIONS OF WARRANTY

The warranty shall not apply—

(1) If all free services/paid services/oil top-ups are not availed as per the recommended schedule at Hero MotoCorp's workshop.

(2) If any other engine oil which is non compatible with the product is used other than SAE 10W30 SL Grade (JASO MA2) or SAE 5W30 SN Grade (JASO MA2).

(3) To normal wear & tear and ageing of components including (but not limited to) brake shoes/pads, clutch plates, drive chain & sprockets, bulbs, electrical wiring, filter, spark plug, fasteners, shims, washers, oil seals, gaskets, rubber parts, bush, rubber bellows, plastic parts breakage, wheel rim for misalignment/bend, steering ball race & cone, control cables such as brake cable/clutch cable, fuses (all types), steering handle for bend and sticker peel off.

(4) If additional wheel(s) is/are fitted and/or any other modification carried out/unauthorized accessories fitted which shall be responsible for malfunction/deterioration of the vehicle or modifications/ alterations are made to the vehicle which are not permissible under applicable laws, or modifications, alterations, tampering or improper repair are undertaken at unauthorised workshops.

(5) If any modifications/alterations/repairs are made to the vehicle which are (a) not as per applicable laws, and/or (b) are undertaken at unauthorized workshops.

(6) If there has been any tampering or improper repair undertaken.

(7) If **PASSION+** vehicle has been used in any competitive events like races or rallies or for any commercial purposes or if any damage results from misuse or use beyond the limitation of the intended purpose or any damage due to use under abnormal conditions.

(8) To any damage on vehicle's painted surface cropping up due to industrial pollution or other external factors.

(9) For normal phenomena like noise, vibration, oil seepage etc., which do not affect the performance, quality and/or function, of the vehicle.

(10) To any damage caused due to usage of improper oil/grease and/or non-genuine parts.

(11) If any defect crops or repairs needed as a result of using adulterated fuel.

(12) If any maintenance/repairs required due to bad road conditions or misuse of **PASSION+** vehicle or required due to operation or use of the vehicle at any place or for such purpose for which the vehicle is not designed or manufactured.

(13) If any defect crops or repairs needed as a result of **PASSION+** vehicle meeting with some accident.

(14) For consumables like oil, grease, gasket etc to be used during free services and/or warranty repairs.

(15) If any damage results from repair, adjustment or maintenance operations by any method other than the methods specified by Hero MotoCorp.

(16) If any damage results from operation, whether intentional or accidental, other than as specified in the Owner's Manual.

(17) To electrical components such as bulbs, fuses, electrical wiring cut due to external reasons (Rat bites etc.).

(18) Any cost for periodic maintenance such as cleaning, inspection and adjustment.

(19) To any part of the **PASSION+** vehicle which has been tampered or repaired in such a manner which has resulted in malfunction of the vehicle.

(20) For **PASSION+** vehicle not used in accordance with the guidelines given in this Owner's Manual.

(21) To proprietary items like tyres, tubes, batteries, etc, as they are subjected to the warranty terms & conditions of the respective manufacturers and directly handled by them only.

(22) Any defect(s) developing on account of external factors such as environmental factors; including but not limited to fading/peeling/rusting of paint and/or stripes and/or plated parts, seat leather tearing & cracking, aluminum parts oxidation and cracking & discoloring of control switches etc. or any damage resulting from soot and smoke, use of chemical, bird droppings or damage by sea water, sea breeze or salt.

(23) If any damage results from operation, whether intentional or accidental, other than as specified in the Owner's Manual.

(24) If the odometer of **PASSION+** has been altered or tampered.

(25) If the Vehicle's Identification Number (VIN) or Engine number has been altered or removed, or any circumstances exist that makes it difficult or impossible to establish the true history, origin and warranty coverage of the vehicle or part in question.

(26) If any damage is caused due to a force majeure event, such as flood, fire, terrorist act, etc.

Hero MotoCorp shall not be liable for (a) any incidental, indirect or consequential damages/loss of any kind whatsoever, and (b) any delay in servicing beyond its control or the control of its authorised dealerships/workshops.

This warranty is only given by Hero MotoCorp and no employee, dealership, workshop or any other person is authorised to extend the warranty provided herein. Hero MotoCorp's obligation under this warranty shall be limited to repairing or replacing, free of cost, those parts of the vehicle which upon examination by the Hero MotoCorp may prove to the satisfaction of Hero MotoCorp to have a manufacturing defect.

Hero MotoCorp's **obligation under this warranty shall be limited to repairing or replacing, free of cost, those parts of the vehicle which upon examination by** Hero MotoCorp **may prove to the satisfaction of** Hero MotoCorp **to have a manufacturing defect. Decision regarding warranty settlement shall be taken by** Hero MotoCorp **and the same shall be final and binding on all concerns.**

Subject to DELHI JURISDICTION only.

Hero MotoCorp Ltd.

BATTERY WARRANTY

Battery fitted in **PASSION+** is a proprietary product of the battery manufacturer and shall be fulfilled and handled directly by the battery manufacturer; Hero MotoCorp shall not be liable for the same. The battery warranty shall be for the period and governed by the terms and conditions as mentioned herein below:

Warranty Period:

The battery is warranted by the battery manufacturer for a period of 18 months from date of sale of vehicle or 20000 km whichever is earlier.

Terms and conditions of warranty

1. Batteries are warranted against all defects in material and workmanship. Liability under this warranty is limited to making good of defects rising solely from the use of faulty material or workmanship during manufacturing and developing under proper use.
   The warranty commences from the date of delivery to the original purchaser of the vehicle.
2. In the event of any complaint the battery is to be returned complete with electrolyte to nearest battery service station or to the dealer. On inspection, battery will be returned or replaced.
3. This warranty card accompanies a battery sold as OEM fitment only. Claims should be supported with vehicle purchase invoice to enable processing.
4. The right to determine whether a battery needs repair or total replacement lies with the battery manufacturer. In case where the battery is replaced, the defective battery becomes the property of the company and no scrap rebate will be given for it. The warranty period on the battery being repaired/replaced shall commence from the date of sale of the original battery as stated in the original warranty card.
5. All liabilities under this warranty will cease if the battery is used on the vehicle other than that on which the battery was originally fitted and on the expiry of the warranty period as mentioned above.
6. Recharging is not covered under the purview of this warranty and shall be billed as extra. However, free of cost (FOC) battery replacement/ repair includes cost of charging.
7. This warranty does not cover damage to the battery caused by faulty electrical systems, incorrect charging and filling, improper handling of the battery by unauthorized dealers/auto electricians, maintenance, willful abuse, destruction by fire, collusion, theft or recharging.
8. Breakage of container and cover do not come under the purview of this warranty.
9. Adjudication and settlement of claim will take a couple of days as a battery has to be tested for the reported failure.
10. In case of tampering of the original wiring circuit in any manner whatsoever.
11. If a battery which is not recommended is fitted on the vehicle then such battery will not carry any warranty.
12. The applicable taxes which are leviable on the battery under repair or replacement will be borne by you (the customer).
13. You (the customer) are deemed to have read, understood and agreed to these conditions at the time of purchase of the vehicle.

EMISSION WARRANTY

Scope of warranty

Hero MotoCorp Ltd. warrants all its vehicles, assembled/manufactured at its various Plants and sold through its channel partners, to comply with emission standards as specified in sub rule (2) of Rule 115 of Central Motor Vehicles Rules, 1989, subject to following terms & conditions.

Terms & conditions

a) The emission warranty shall be applicable in India and shall remain valid for a period of 3 years or 30000 km, whichever occurs earlier, from the date of vehicle purchase.

b) The parts, which are covered under emission warranty are fuel injector, fuel pump, throttle body, ignition coil, oxygen sensor and muffler ("Emission Related Component(s)").

c) In case any defect is observed in any Emission-Related Component(s) which are covered under emission warranty, Hero MotoCorp's only obligation/liability shall be to repair and/or replace those part (s) which is/are considered to be the cause of non-compliance with the emission standards.

d) The method (s) of examination to determine the warranty conditions of the Emission Related Component will be at the sole discretion of Hero MotoCorp and / or its channel partners / service center and result of such examination shall be final and binding. If on examination the warranty conditions of the Emission Related Component is / are not established, Hero MotoCorpwill have the right to charge all, or part of the cost of such examination / service charges to you in addition to the cost of the components.

e) Hero MotoCorp shall have the sole discretion to decide to replace the defective Emission Related Component or the entire assembly or any other part required for such repair.

f) The emission warranty shall be applicable only to those vehicles, which are being regularly maintained in accordance with the maintenance schedule provided in the Owner's Manual.

g) You should follow the recommended parts replacement as per the maintenance schedule in order to avail the emission warranty.

h) If any Emission Related Component is/are tampered and/or repaired by unauthorized person/ workshops etc, then the emission warranty shall stand cancelled.

i) Any Emission Related Component suffering from wear and tear under the normal course of running shall not be covered under the emission warranty. Therefore, all such parts should be replaced by you from time to time, on payment basis, as per the maintenance schedule provided in Owner's Manual and dealer's advice

EMISSION WARRANTY

j) It is recommended to avail the services as per the recommended schedule to be eligible for the emission warranty benefits. Please ensure that each paid service is availed within 180 days from the date of previous services or as per the recommended schedule, whichever is earlier.

k) It is mandatory to obtain a PUC certificate from the authorised PUC center. In case of non-compliance with the emission standards please contact the channel partner/authorised workshop immediately along with the previous OK certificate, for the necessary rectification. The manufacturer or the dealer is not responsible for any penalty levied on you on account of non-compliance with the emission standards.

l) Emission warranty shall not be applicable if

- The vehicle has been subjected to abnormal use, abuse, neglect and improper maintenance or has met with an accident.
- The vehicle, or parts including the Emission Related Component(s) thereof, has been altered, tampered with or modified or replaced in an unauthorized manner.
- The odometer is not functioning or the odometer and/or its reading has been changed/tampered with, so that the actual distance covered cannot be readily determined.
- The vehicle has been used for competitions, races, and rallies or for the purpose of establishing records.
- If any damage results to the Emission Related Component(s) covered under from repair, adjustment or maintenance operations by any method other than the methods specified by Hero MotoCorp.
- If any damage results from operation, whether intentional or accidental, other than as specified in the Owner's Manual.
- Any cost for periodic maintenance such as cleaning, inspection and adjustment.
- If any damage is caused to the Emission Related Component(s) due to a force majeure event, such as flood, fire, terrorist act, etc.

m) All decisions regarding emission warranty settlement shall be taken by Hero MotoCorp and shall be final binding on all concerned.

Subject to Delhi jurisdiction only.

GENUINE PARTS

WHAT ARE THE BENEFITS OF Hero MotoCorp 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

Clutch plate	• Material used is inferior • Damages other parts of clutch like, clutch center and outer clutch • Affects fuel efficiency • Poor acceleration
Cam chain kit	• Poor performance • Reduced life
Gasket cylinder head	• Improper sealing • Engine knocking • Leads to leakage and smoky exhaust • Higher emission level

Hero

GENUINE PARTS

CONSEQUENTIAL DAMAGES ON USING NON-GENUINE PARTS

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
Brake pads/Shoes	• Poor braking efficiency • Rider safety-an issue • Discs/Drum wear out, resulting in subsequent repair cost
Chain sprocket kit	• Noisy operation • Failure of chain can cause fatal accident

ZONAL/REGIONAL OFFICES

For any of your service related query/requirements you may contact the respective Zonal/Regional Offices

CENTRAL ZONE

Hero MotoCorp Ltd., NO. 209-210 , Ganpati Plaza , M.I Road, Jaipur -302001, Rajasthan, India
Tel:+91-141-238903, +91-141-2389156, E-mail: jaipur@heromotocorp.com

Hero MotoCorp Ltd. Office No. 55 to 59, 1st Floor, Maple High Street, Opposite Aashima Mall, Hoshangabad Road, Bhopal - 462026, Madhya Pradesh, India. Tel:+91-755-2994398, E-mail: bhopal@heromotocorp.com

Hero MotoCorp Ltd., Office No. 401, 4th Floor, Offizo, Magneto Mall, Labhandi, G. E. Road, Raipur - 492001 Chhattisgarh, India.
Tel:+91-0771-4034749, E-mail: raipur@heromotocorp.com

EAST ZONE

Hero MotoCorp Ltd., Flat No: 1002. 10th Floor, Martin Burn Business Park, BP3, Salt Lake, Sector-V, Kolkata - 700091, India. Tel: +91-33-44026841+91-33-32580052, E-mail: kolkata@heromotocorp.com

Hero MotoCorp Ltd., Business Centre, Plot No.30, 30/982,172/1030, 4th Floor, Cuttack-Bhubaneswar Highway Road (Main Road towards Cuttack adjacent to Marble Emporium & In front of SBI Industrial Branch), Rasulgarh, Bhubaneswar-751010 India. Tel: +91-0674-2581161, +91-0674-2581162, +91-0674-2581163, +91-0674-2581164, E-mail: bhubaneshwar@heromotocorp.com

Hero MotoCorp Ltd., Yash Heights, 1st Floor, Bariatu Road, Ranchi- 834009 (Jharkhand) India
Tel: +91-0651-2542222, +91-0651-2542224, +91-0651-2542225, E-mail: ranchi@heromotocorp.com

Hero MotoCorp Ltd., Sai Corporate Park, 'A' Block, 6th Floor, Rukanpura, Bailey Road, Patna - 800014 (Bihar) India
Tel: +91-0612-2590587, +91-0612-2590588, +91-0612-2590589, E-mail: patna@heromotocorp.com

Hero MotoCorp Ltd., 158, Christian Basti, Golden Heights - 3rd Floor, Reliance Trend Buildings, Adjacent Central Mall, G.S. Road, Guwahati -781005 (Assam) India. Tel: 0361-2340058

NORTH ZONE

Hero MotoCorp Ltd., 3rd Floor, DLF Centre Court, Golf Course Road, DLF Phase 5, Sector 42, Gurugram, Haryana - 122002. Tel:+91-0124-4754800, E-mail: delhi@heromotocorp.com

Hero MotoCorp Ltd., S.C.O 367 - 368 , First Floor, Sector-34A, Chandigarh - 160022, India.
Tel: +91-172-2623773, +91-172-2623774, 91-172-2623775, E-mail: chandigarh@heromotocorp.com

Hero MotoCorp Ltd., Hero MotoCorp Ltd. Hotel Mandakini Compound, 01, Haridwar Road, Dehradun - 248 001, India.
Tel: +91-135-2724661+91-135-2724662, E-mail: Dehradun@heromotocorp.com

NORTH ZONE

Hero MotoCorp Ltd., Summit Building (10th Floor) Plot No:TCG 3/3 Vibhuti Khand, Gomti Nagar, Lucknow – 226010
Tel: 0522-4006594, E-mail: lucknow@heromotocorp.com

Hero MotoCorp Ltd., IP Grand, 3rd floor, C-19/134-B, Lallapura, Sigra, Varanasi, Uttar Pradesh – 221010, India.
+91-0542-2508440, +91-0542-2508441, E-mail: varanasi@heromotocorp.com

SOUTH ZONE

Hero MotoCorp Ltd., No – Skav 909 Lavelle Building, Richmond Road, Shanthala Nagar, Ashok Nagar, Bengaluru, Karnataka 560025, India. Tel:+91-80-46881000, E-mail: bangalore@heromotocorp.com

Hero MotoCorp Ltd., 9th Floor Seshachalam Centre no.636/1, Anna Salai, Nandanam. Chennai 600035, India.
Tel: 044-24340974, 044-24340977, 044-24340978, E-mail: chennai@heromotocorp.com

Hero MotoCorp Ltd., 6-A, DD Trade Tower (6th Floor), Kaloor – Kadavanthra Road, Kaloor, Kochi – 682 017, India.
Tel: +91-0484-4039646, +91-0484-4039647, E-mail: cochin@heromotocorp.com

Hero MotoCorp Ltd., Door No: 1547, Classic Towers, 2nd floor, Trichy Road, Coimbatore – 641018 India
Tel: +91-422-2200058, +91-422-2200061, E-mail: coimbatore@heromotocorp.com

Hero MotoCorp Ltd., First Floor, V A Kalburgi Mahalakshmi Mansion, Mandakini Hospital Road, New Cotton Market, Hubli – 580029, India. Tel: 0836-2269717, 0836-2361038, E-mail: hubli@heromotocorp.com

Hero MotoCorp Ltd., 3-6-289, 3rd Floor, Kareem Manzil, Hyderguda, Hyderabad – 500 029, India.
Tel: +91-040-23223735, +91-040-23223727, +91-040-23223570 , E-mail: hyderabad@heromotocorp.com

Hero MotoCorp Ltd., D.No. 54-11-18E, 2nd Floor, Sai Odyssey Building, Opp Executive Club, Near NH-5, Andhra Pradesh, Vijayawada – 520 008, India. Tel: +91-866-2546859, E-mail: vijaywada@heromotocorp.com

WEST ZONE

Hero MotoCorp Ltd., Sr. No. 33, Hissa-A-1/1/2, Plot – 2, Chrome Building, Viman Nagar, Nagar Road, Next to Hotel Hindustan International,(HHI), Pune – 411 014 India. Tel: +91-020-71903500, E-mail: pune@heromotocorp.com

Hero MotoCorp Ltd., 604, Gunjan Towers, Off Alembic-Gorwa Road, Baroda – 390 023, India.
Tel: +91-265-2286569 +91-265-2286570, E-mail: baroda@heromotocorp.com

Hero MotoCorp Ltd., Astarc House, Third Floor, 76/79, Makwana Lane, Off. Andheri Kurla Road, Andheri (East), Mumbai – 400 059, India. Tel: +91-2269830000, E-mail: mumbai@heromotocorp.com

Hero MotoCorp Ltd., Ground Floor, Block No.2, Vishnu Vaibhav Complex, 222, Palm Road, Civil Lines, Nagpur – 440 001, India. Tel: +91-712-2545990, +91-712-2545991, E-mail: nagpur@heromotocorp.com

Hero MotoCorp Ltd., 2nd Floor, B-201, Pride Corporate, Royal Park, Kalavad Road, Rajkot, Gujarat – 360001 India.
Tel: +91-0281-2460622, +91-0281-2930530, E-mail: rajkot@heromotocorp.com