Hero OWNER'S MANUAL

ALL NEW XTREME 20 STEALTH

WITH CONNECT

ADVANCED TELEMATICS SOLUTION

PREFACE

Thank you for selecting a Hero MotoCorp **XTREME 160R STEALTH.** 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 (Bharat stage-VI norms) 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 **XTREME 160R STEALTH.** 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, ILLUSTRATION, PHOTOGRAPH, DIRECTIONS, SPECIFICATIONS AND OTHER CONTENTS COVERED IN THIS OWNER'S MANUAL ARE BASED ON THE LATEST PRODUCT INFORMATION AVAILABLE AT THE TIME OF ITS PRINTING APPROVAL, AND THE ACCURACY OR CORRECTNESS OF THE SAME IS NOT UNDERTAKEN OR GUARANTEED.

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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 ***'XTREME 160R STEALTH' COMPLIES WITH THE LATEST EMISSION NORMS.***

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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: MBLKCU09#########

MBL	KCU09	#	#	#	#	#####
Manufacturer code	Vehicle Description	Check Digit	Model Year	Plant Code	Month of Manufacturing	Production Serial Number

Engine No.: KC01AD########

KC01AD	#	#	#	#####
Engine Description	Year of Manufacturing	Assembly Plant	Month of Manufacturing	Serial Number

Model: XTREME160R STEALTH

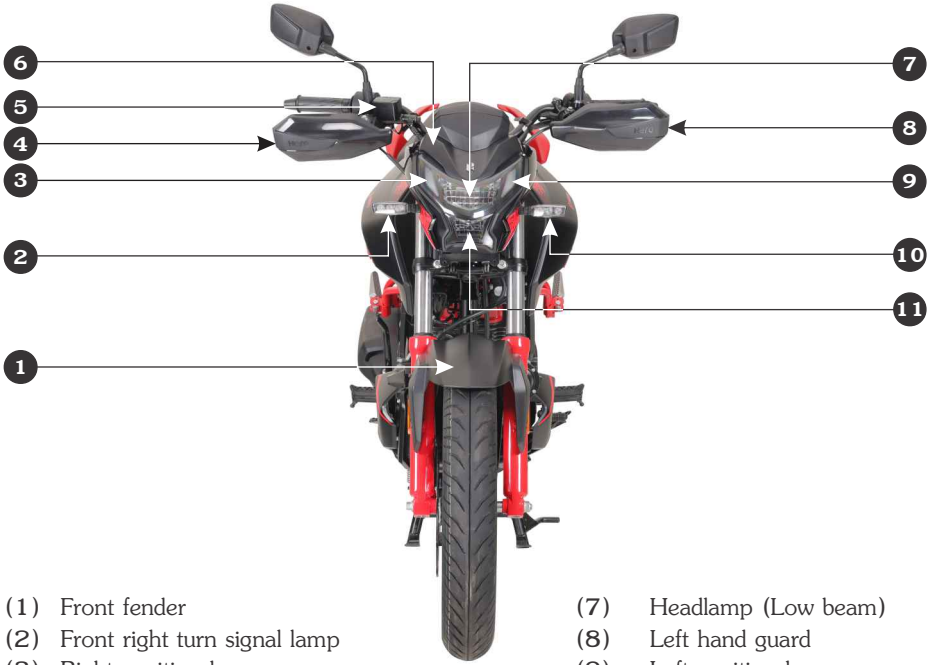
Variants	VIN	Engine
Electric start/Front disc with ABS/Rear disc/Cast wheel	KCU09	KC01AD

VIN and Engine No. may be required:

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

VEHICLE VIEWS

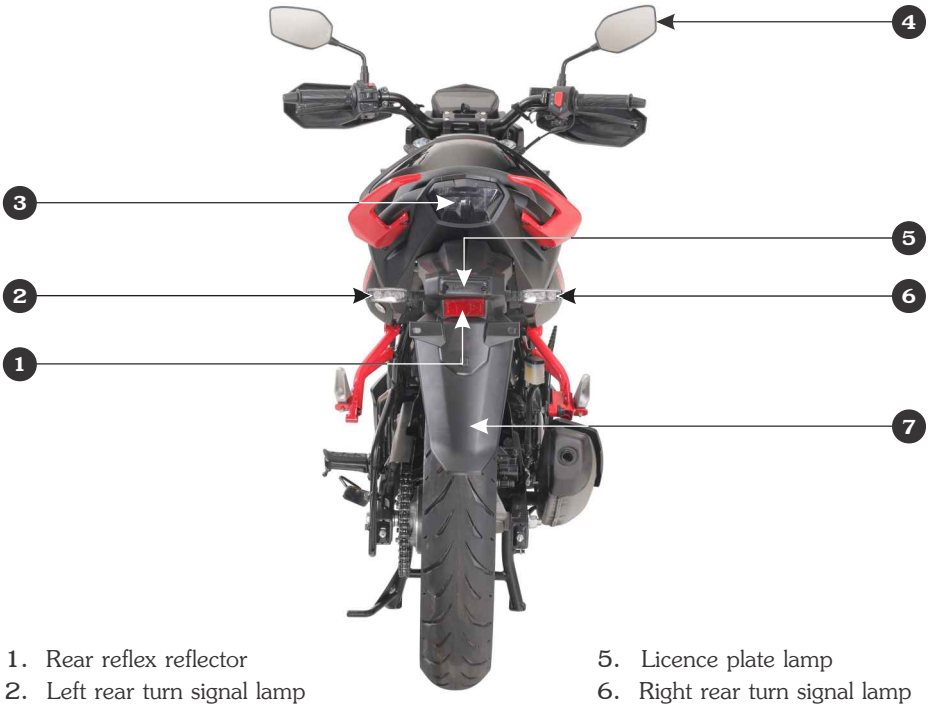
FRONT VIEW



(1) Front fender
(2) Front right turn signal lamp
(3) Right position lamp
(4) Right hand guard
(5) Front brake master cylinder/Reservoir
(6) Front visor
(7) Headlamp (Low beam)
(8) Left hand guard
(9) Left position lamp
(10) Front left turn signal lamp
(11) Headlamp (High beam)

***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 mirrors
5. Licence plate lamp
6. Right rear turn signal lamp
7. Rear fender

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

TOP VIEW

(1) USB charger
(2) QR code sticker
(3) Side stand indicator
(4) Horn switch
(5) Turn signal switch
(6) Clutch lever
(7) Passing switch
(8) Headlamp dimmer switch
(9) Hazard switch
(10) Set button
(11) LCD panel of meter console, refer instruments and indicators **(page 15)** for fuel gauge, speedometer and other features of console
(12) Programmed FI malfunction indicator lamp (MIL)
(13) Neutral indicator
(14) High beam indicator
(15) ABS indicator
(16) Low fuel indicator
(17) Mode button
(18) Integrated start-kill switch
(19) Front brake lever
(20) Throttle grip
(21) Turn signal indicators
(22) Ignition switch with key
(23) Fuel tank cap

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

LEFT SIDE VIEW

(1) Side reflex reflector
(2) Throttle body/ECU (inside)
(3) Starter motor
(4) Belly pan
(5) Main stand
(6) Gear shift pedal
(7) Side stand
(8) Rider footrest
(9) Pillion footrest
(10) Saree guard
(11) Rear grip
(12) Seat lock
(13) Battery compartment (inside)
(14) Side stand switch

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

RIGHT SIDE VIEW

(1) Rear brake fluid reservoir
(2) Rear master cylinder
(3) Brake pedal
(4) Kick starter pedal
(5) Oil level dipstick
(6) Front caliper assembly
(7) Front disc
(8) Fuel tank cover
(9) Seat
(10) Fuse box (inside)
(11) Document & Tool kit compartment
(12) Rear caliper assembly
(13) Exhaust muffler
(14) Rear disc

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

VEHICLE SPECIFICATION

ITEM		SPECIFICATIONS
Dimensions		
Overall length		2029 mm
Overall width		793 mm
Overall height		1052 mm
Wheelbase		1327 mm
Saddle height		795 mm
Ground clearance		165 mm
Weight		
Kerb weight		143 kg
Capacities		
Engine oil		1.3 litres at disassembly and 1.09 litres at draining
Fuel tank		12 litres
Hydraulic brake fluid		DoT-3 or DoT-4
Engine		
Maximum power		11.2 kW @ 8500±500 r/min
Maximum torque		14 N-m @ 6500±500 r/min
Bore and stroke		57.3x63.3 mm
Compression ratio		9.8:1
Displacement		163.23 cc
Spark plug		NGK-CPR 8 EA 9, BOSCH UR5DC
Spark plug gap		0.8-0.9 mm
Valve clearance	Intake (cold)	0.12 mm
	Exhaust (cold)	0.13 mm
Idle speed		1400±100 r/min
Chassis and suspension		
Front suspension		Telescopic hydraulic
Rear suspension		Rectangular swingarm with monoshock
Caster angle		25.5°
Trail length		98 mm
Tyre size	Front	100/80 17 52 P (Tubeless tyre)
	Rear	130/70 R17 62 P (Radial tubeless tyre)

VEHICLE SPECIFICATION

ITEM		SPECIFICATIONS
Brakes	Front (Disc type)	Dia. 276 mm
	Rear (Disc type)	Dia. 220 mm
Transmission		
Primary reduction		3.136 (69/22)
Final reduction		3.077 (40/13)
Gear box		5 Speed constant mesh
Gear ratio, 1st		3.077 (40/13)
2nd		1.789 (34/19)
3rd		1.304 (30/23)
4th		1.1 (22/20)
5th		0.958 (23/24)
Electricals		
Battery		*MF Battery-12V-6 Ah/ETZ7
Alternator		120 W@5000 r/min (Single phase full DC system)
Headlamp (High/Low)		LED
Position lamp		LED
Tail/Stop lamp		LED
Turn signal lamp		LED
Meter illumination		Module illuminated LCD
Neutral indicator		LED
Turn signal indicator (RH/LH)		LED
Hi beam indicator		LED
ABS indicator		LED
Low fuel indicator		LED
Service reminder indicator		Module illuminated LCD
Licence plate lamp		12V-5W
Side stand indicator		LED
Programmed-Fi Malfunction indicator lamp (MIL)		LED
Fuse	Starter magnetic switch	20A (Circuit fuse) & 20A (Spare fuse)
	Fuse box	15A, 10A, 10A & 10A (Main fuse)
		15A & 10A (Spare fuse)

***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 reduce the reaction time. Do not drink and ride.

Keep your vehicle in safe condition

For safe riding, its important to inspect your vehicle before every ride and perform all recommended maintenance. Never exceed load limits, and 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 operating 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 was not 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.
- Enter your name, address and phone number in this Owner's Manual and keep it in your vehicle at all times. Many times stolen vehicles are identified by information in the Owner's Manuals that are still with them.

NAME: _____

ADDRESS: _____

_____

_____

_____

PHONE NO : _____

Do's:

- Always conduct simple pre-ride inspection **(page 27).**
- 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).
- For stopping vehicle, 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 70).**
- During night time, dip headlamps of your vehicle for oncoming traffic, or when following another vehicle.
- Give way to others on the road and signal before you make a turn.
- To make yourself more visible, wear bright reflective clothing that fits well.
- Take care of loose/hanging clothes while solo/pillion riding.
- Get your vehicle serviced regularly by the Authorised Hero MotoCorp workshop.
- Before riding make sure that integrated start-kill switch is in "ON" (⏼) position.
- Keep checking the ABS indicator. At any point if indicator remains on, then ABS is not working **(page 34).**
- Keep checking speedometer. In case of ABS malfunction, speed display may go to zero.
- It is suggested to go through the do's & dont's of ABS **(page 42)** and practice riding your ABS vehicle initially in low-traffic condition unless you are thoroughly familiar with your vehicle and its controls.

Don'ts

- 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 attempt to apply the front brake lever intermittently for ABS vehicle.
- Do not panic by mechanical noises or slight pedal pulses while applying the brake in vehicle. These conditions are normal and indicates that ABS is working.
- Don't apply hard braking on loose, wet or slippery road surfaces.
- Do not switch off the integrated start-kill switch (⊗) while riding the vehicle **(page 33).**
- Do not move the side stand down while riding, as engine will stop while vehicle is in gear **(page 35)** (Wheel locking leading to accident, part damage etc.).

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) engine oil recommended by Hero MotoCorp and make sure you change it every 6000 km. (with top up every 3000 kilometres) to keep the engine fit and environment healthy.

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

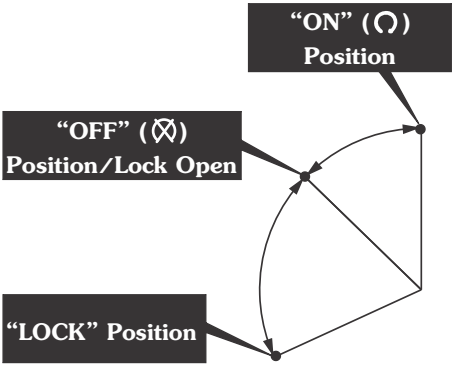
- **Emission pollution:** Get emission of your vehicle checked by Authorised agencies atleast once every 3 months or as notified by the government from time to time.

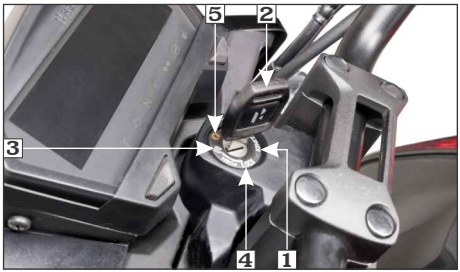
- **Fuel saving & reduce pollution:** Switch "OFF" the engine while waiting at traffic signal points to save fuel and reduce pollution, if the waiting period is long.

- **BS-VI grade fuel :** Always use BS-VI grade fuel to adhere BS-VI norms.

PARTS FUNCTION

Ignition switch



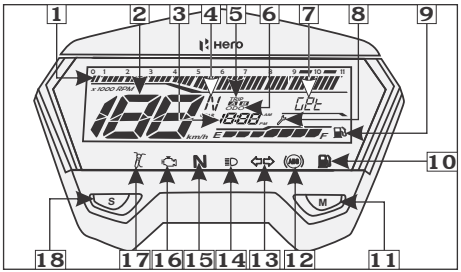


1. Ignition switch
2. Ignition key
3. "OFF" (⊗) position
4. Steering lock position
5. "ON" (ᗣ) position

Key position	Function	Key removal
"ON" (ᗣ)	The LCD panel illuminates & initial display of multi function digital segments are displayed. The tachometer segment and the fuel gauge segment will swing to the maximum scale once and back to its normal position. Scroll message and odometer will appear. The engine can be started. Turn signal lamp, horn, tail/stop lamp, fuel gauge, passing switch, position lamp, programmed FI malfunction indicator lamp (MIL) illuminates continuously, neutral indicator & hazard switch will be functional.	Key cannot be removed.
"OFF" (⊗)	Engine cannot be started and no electrical system will be functional.	Key can be removed.
"LOCK"	Steering can be locked.	Key can be removed.

Instruments and Indicators

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



Sl. No.	Description	Function
1	Tachometer	Shows engine revolution per minute. The tachometer digital segments will swing to maximum scale on the meter console once the ignition switch is turned "ON".
2	Speedometer	Indicates riding speed.
3	Digital clock	Indicates hours & minutes **(page 17).**
4	Gear indicator	Displays the selected gear while riding **(page 31).**
5	Tripmeter A & B	Shows the distance travelled during a trip after setting to zero **(page 18).**
6	Odometer	Shows accumulated distance travelled **(page 18).**
7	Scroll display	Displays a scrolling "GET SET GO" message for few seconds when the ignition switch is turned "ON" **(page 19)**.
8	Service reminder indicator	Display when the next service is due **(page 19).**
9	Fuel gauge	Indicates approximate fuel quantity in the form of digital segments. The fuel gauge segments will display its maximum scale on the fuel gauge LCD panel once when the ignition switch it turned "ON" **(page 20)**.

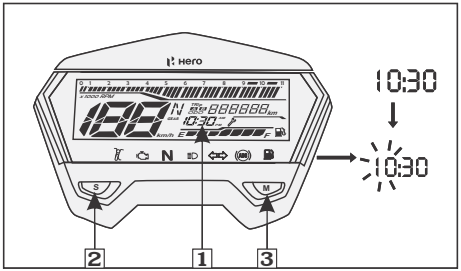
Sl. No.	Description	Function
10	Low fuel indicator	Light glows when the fuel quantity is low **(page 20)**.
11	Mode button	Switches display between odometer, tripmeter-A & B.
12	Anti-lock braking system (ABS) indicator	This indicator normally comes on for approx 1.8 seconds when the ignition switch is turned "ON" (Ω) & then keeps blinking until the vehicle attains speed of 5 km/h. If there is a problem with the anti-lock brake system, ABS indicator turns on **(page 34).**
13	Turn signal indicators	Flashes when turn signal switch is operated.
14	High beam indicator	Light glows when headlamp is in high beam.
15	Neutral indicator	Light glows when vehicle is in neutral position.
16	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. 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.
17	Side stand indicator	Light glows when the vehicle is parked on the side stand.
18	Set button	To adjust clock, date & tripmeter. When long pressed resets tripmeter to zero.

LCD PANEL

(a) Digital clock

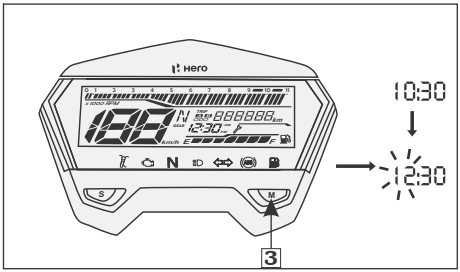
Digital clock (1) shows hour and minute. To adjust the time, proceed as follows :

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



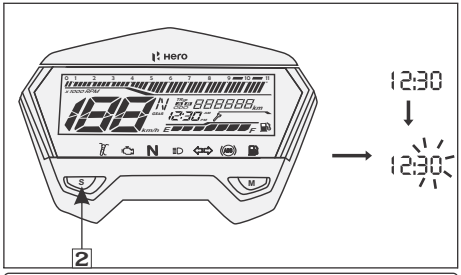
(1) Digital clock **(2) Set button**
(3) Mode button

- To set the hour, press mode button (3) until the desired hour is displayed.
  - The time is advanced by 1 hour each time the button is pressed.
  - The time advances fast when the button is pressed and held.
  - "AM" will change to "PM" after 12.



(3) Mode button

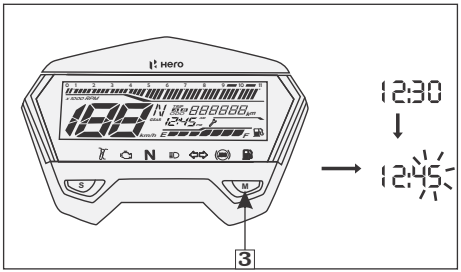
- Press the set button (2). The minutes display starts blinking.



(2) Set button

- To set the minute press mode button (3) until the desired minute is displayed. The minute display will return to "00" when "60" is reached without affecting the hour display.
  - The time advances by 1 minute, each time the button is pressed.

- The time advances fast when the button is pressed and held.



(3) Mode button

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

NOTE

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

(b) Odometer/Tripmeter

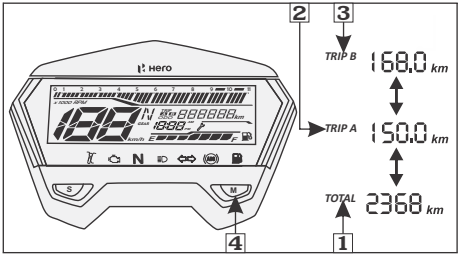
The odometer (1) shows accumulated distance travelled.

The tripmeter shows distance travelled since trip meter was reset last time. There are two tripmeters, tripmeter-A (2) and tripmeter-B (3).

Push the mode button (4) to select odometer, tripmeter-A or tripmeter-B. Tripmeter-A or tripmeter-B can be displayed upto "99999.9" km.

If the tripmeter exceeds "99999.9" km it will return to "0.0" km automatically. When tripmeter is selected long press the set button to reset tripmeter to zero.

The odometer can be displayed from "0 to 999999" km.



(1) Odometer **(2) Tripmeter-A**
(3) Tripmeter-B **(4) Mode button**

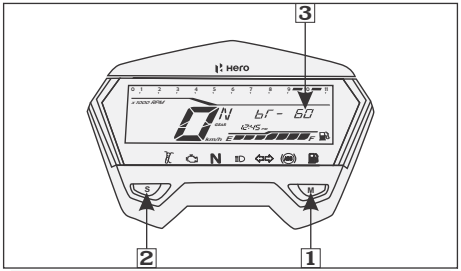
(c) LCD backlight brightness control

The LCD backlight brightness can be adjust.

The range of the brightness is from 20% (minimum) to 100% (maximum).

To change the brightness level of the LCD backlight, follow the below procedure:

- Turn the ignition switch "ON" (O).
- Press and hold the mode button (1) for more than 3 seconds. Brightness level mode will appear.
- Press the set button (2) (not more than 1 second) to change the brightness level (3).



(1) Mode button **(2) Set button**
(3) Brightness level

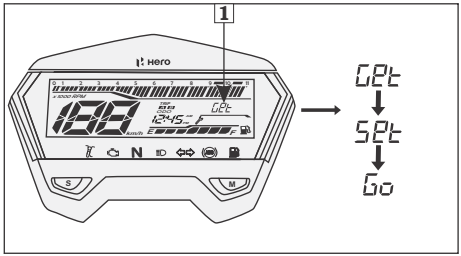
- The brightness level will change in multiple of 20%.
- Once the brightness level is set, press and hold the mode button until the brightness mode disappears.
- After setting the brightness level, if the mode button is not pressed and hold until 30 seconds then the last brightness level shall be stored and returned to normal mode.

NOTE

- ***The default brightness level is 60%.***
- ***Every ignition "OFF" to "ON" will display the last set brightness level.***
- ***To set the brightness level, the speed of the vehicle should be less than 3km/hr.***
- ***If the vehicle's speed is more than 3km/hr, and the desired brightness level is set then it will not be stored and will return to normal mode.***

(d) Scroll message

The scroll (1) displays a message "GET SET GO" for few seconds whenever the ignition switch is turned "ON".



(1) Scroll

(e) Service reminder indicator

The service reminder indicator (1) is to indicate the user to bring the vehicle to an Authorised Hero MotoCorp workshop for service. The indicator shall start blinking when the vehicle covers kilometers as specified in the maintenance schedule. The indicator will keep on blinking throughout the kilometer interval for a particular service and will stay "ON" thereafter.

The service reminder indicator can be reset at an Authorised Hero MotoCorp workshop.

(1) Service reminder indicator

NOTE

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

(f) Fuel gauge

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

(1) Fuel gauge (2) 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 12.0 litres.

(g) Low fuel indicator

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

(1) Low fuel indicator

CAUTION

Please 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 stats glowing.

NOTE

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

FEATURES

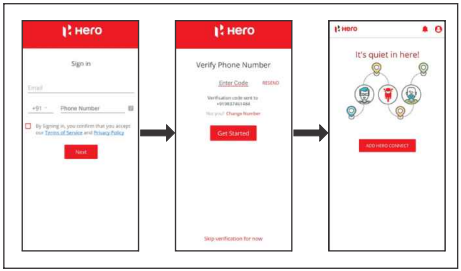
(a) Hero Connect

Telematic control unit (TCU) can be paired and activated via mobile app "Hero Connect". This app can be downloaded from google play store (for android) or App Store (for iOS). App also provide various data like live tracking, trip history, driving score etc.

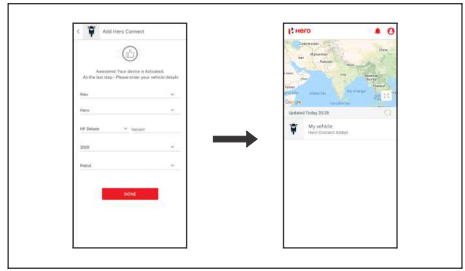
1 year subscription included+renewal fees Rs 1005 (excl tax) for subsequent years.

Below are the steps to pair and activate TCU.

- Open hero connect application on your smartphone.
- Sign in with a valid email id and mobile number (OTP validation).



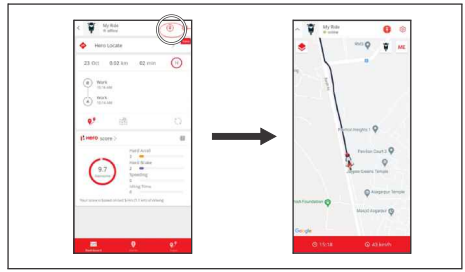
- Vehicle will be auto selected as per variant of the TCU.



Different functionalities of TCU and Hero Connect are as follows:

- **Live Tracking**

When vehicle ignition is turned ON, TCU sends live GPS location to server and user can view these locations on hero connect application.



- **Trip Records**

Hero connect server keeps record of last 6 months of data received from TCU. All the vehicle trip data for last 6 months can be seen in the trip section.

Trips are recorded in following 3 conditions:

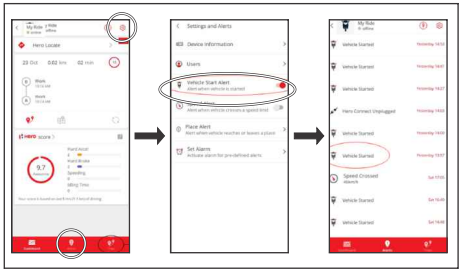
- Vehicle ignition switch is turned "ON".
- TCU is unplugged from vehicle and internal battery of TCU has enough charge level.
- Vehicle is being towed away.

NOTE

Previous unplugged and tow alerts can be viewed under alert section.

- **Vehicle Start Alert**

TCU sends vehicle start alert to server whenever vehicle ignition is switched "ON". Vehicle start alert is by default enabled in the application user can disable this alert if user does not want this alert.

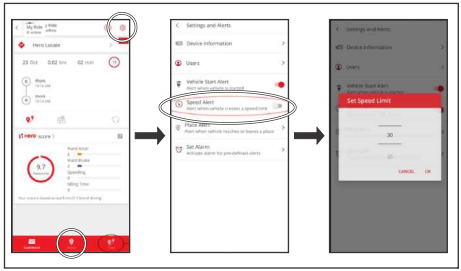


In good network condition, it takes around 45 seconds for TCU to send vehicle start alert after vehicle ignition is "ON". If network is not good, the alert will take longer time to reach to application.

- **Vehicle Speed Alert**

TCU sends vehicle speed alert to server whenever vehicle crosses speed limit configured by the user.

TCU supports up to 3 speed alerts, 1 speed alert per user. Speed alert configured by one user will only be available to that user.



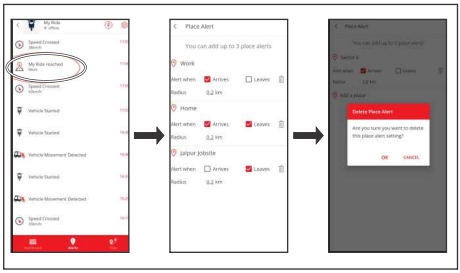
- **Vehicle Geofence Alert**

TCU supports geofence alerts. Once user configures this alert, user will get the alert on application as and when vehicle breaches the geofence. These geofences are circular and user need to set following options to configure a geofence:

- Set center of the geofence.
- Set radius of the geofence.
- Set alert on arrive or leave or both.

TCU supports up to 3 geofence alerts per user. Geofence alert configured by one user will only be available to that user.

Geofence breach alert will be shown in alert section. User need to check arrive and/or leave option based on requirement to get geofence alerts. Unchecking both the options will cause the geofence setting to be deleted. A dialog box will be shown to user in this case.

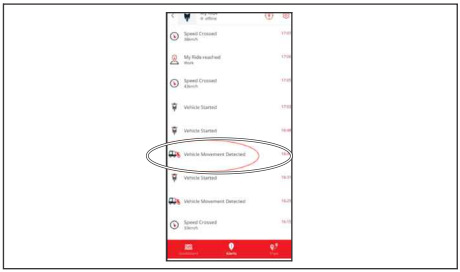


- **Vehicle Towing Alert**

TCU has vehicle towing detection feature. There are following preconditions for towing detection:

- Vehicle ignition switch should be "OFF".
- GPS signal must be available.
- TCU should be in sleeping state and should wakeup because of vehicle movement (Accelerometer wakeup).
- Vehicle must move at least 100±10) meters from its last parked location.
- Towing detection alert will be sent to server minimum 60 seconds after device wakeup. In bad network condition, it may take longer time.
- During towing state, if vehicle is idle (i.e. no movement) for 300 seconds, device will enter sleep mode. If there is some movement in the vehicle, the 300 second restarts.

- During towing sate, if ignition is turned ON, device will end ongoing trip and start the next trip
- Trip created during towing state does not merge with any other trip.



NOTE

- ***Along with app notification, towing alert is also notified via SMS alert.***
- ***The alert is available to both primary & secondary user. SMS alert is available only to primary user.***

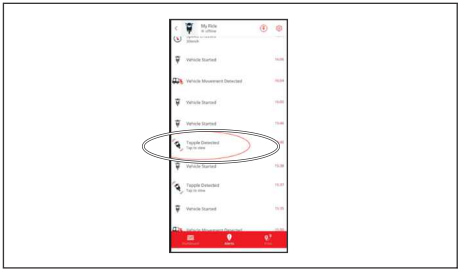
- **Vehicle Topple Alert**

TCU has vehicle topple detection feature. There are following preconditions for topple detection:

- Vehicle ignition switch must be "ON".
- Vehicle tilt angle should be more than 50° .
- Vehicle must remain in topple position for at least 10 seconds.
- GPS signal must be available & vehicle speed must be 6km/h or less for topple detection.
- Once topple is generated, it will not be generated again only if any of the below mentioned condition is true:
  - 5 minutes have been elapsed since last time vehicle was toppled and vehicle is in its normal position now.
  - Ignition is turned "OFF" and "ON" again.
  - Main supply is removed from TCU.
  - 12 hours have been elapsed since ignition "ON".
- TCU sends last known vehicle location in topple alert.

NOTE

- ***Along with app notification, topple alert is also notified via SMS alert.***
- ***The alert is available to both primary & secondary user. SMS alert is available only to primary user.***



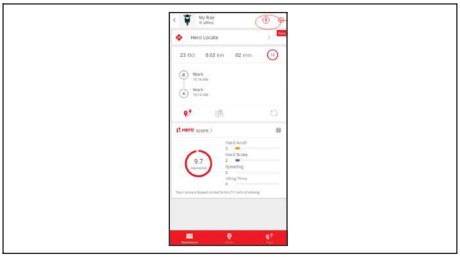
- **User Driving Score**

TCU supports driving score feature. Driving score is based on following parameters:

- Hard acceleration during trip.
- Hard braking during trip.

- Idling during trip.
- Over speeding during trip.

Based on how rider is riding vehicle, TCU sends these events to server and server calculates driving score.



- **Unplugged Alert**

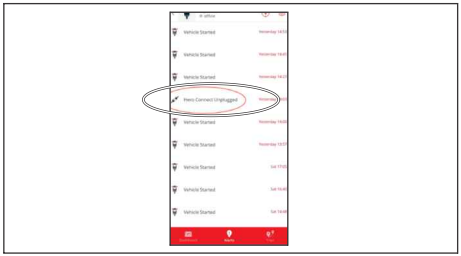
TCU sends unplugged alert to server when external power source is disconnected.

TCU has an internal battery which provides supply to TCU when external supply is disconnected. TCU will be able to send unplugged alert to server only if internal battery is sufficiently charged. If the battery is completely discharged, it takes minimum 2 hours to charge the battery at sufficient level.

Internal battery is charged only when vehicle ignition switch is in "ON" condition.

NOTE

- ***Along with app notification, unplugged alert is also notified via SMS alert.***
- ***The alert is available to both primary & secondary user. SMS alert is available only to primary user.***



- **Battery Discharge Alert**

TCU platform supports battery discharge alert. This alert is sent from server to hero connect app if vehicle is not started for last 14 days. If user is not using/starting the vehicle, user will get first alert after 14 days and subsequent alerts at every 7th day after that.

Total 5 alerts will be sent to user, on day 14, 21, 28, 35 and 42. If vehicle is started during this period, the server will stop sending alerts to hero connect app.

Server generates these alerts based on time when TCU was last connected with server. If TCU is running in no network area for very long time (more than 14 days), then user will get false alerts.

NOTE

- ***Along with app notification, battery discharge alert is also notified via SMS alert.***
- ***The alert is available to both primary & secondary user. SMS alert is available only to primary user.***

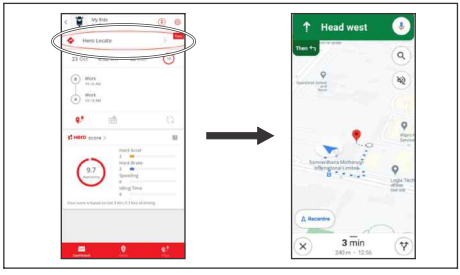
SMS alert

In App notification

• Hero Locate

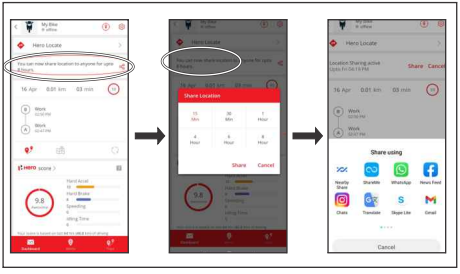
Hero locate feature of TCU lets user navigate to vehicle using google map.

This feature is based on last GPS location received from the TCU. The last location received on server may not be the actual parking location of the vehicle because of various conditions like unavailability of GSM or GPS network. In this condition, user may not reach the exact parking location using this feature.

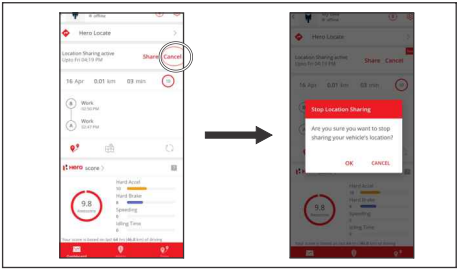


• Location Sharing

Location Sharing feature of TCU lets user share vehicle live location with anyone, only primary user can share the live location data. The live location is a URL which is active for minimum 15 min to maximum 8 hours depending on user choice. User can share this URL via WhatsApp, email, Facebook etc. Once URL is shared with someone, they can live track the vehicle if ignition is "ON".



User can disable or cancel live location URL anytime user wants.

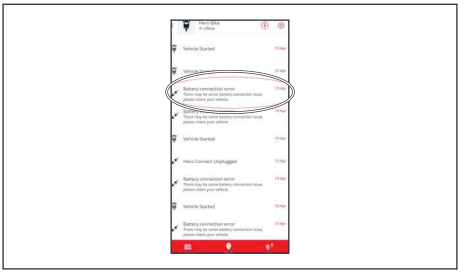


User can reshare the already shared URL with some other contact.

Location sharing feature provides option for only one URL. If user wants to create a new URL or update the time of present URL, user needs to cancel the present URL and share a new URL.

- **Battery Less Condition Alert**

Battery less condition is condition when vehicle battery is not present in the vehicle (or battery terminal is disconnected from battery), and TCU is getting supply directly from alternator. In this condition TCU will generate 'Battery connection error' alert.



There are three different conditions for battery less condition –

Case 1:

TCU internal battery is in charged state and external battery is disconnected from vehicle while vehicle alternator is "OFF". (Battery disconnection in engine "OFF" condition)

Behavior: TCU will detect external battery removal treat it as unplug alert. User will get unplug alert on hero connect app.

Case 2:

TCU Internal battery is in charged state and external battery is disconnected from vehicle while vehicle alternator is "ON". (In other words, when TCU is running at internal battery supply and vehicle alternator is switched "ON" without presence of vehicle battery, TCU will generate 'Battery connection error' alert.)

Behavior: TCU will detect battery less condition and send 'Battery connection error' alert. User will get 'Battery connection error' alert on hero connect app.

Case 3:

TCU Internal battery is in discharged state or does not have sufficient charge and external battery is disconnected from vehicle while vehicle alternator is "ON"

Behavior: TCU will not work as per required functionality.

Additional features of TCU and Hero connect application.

- **Application Socket Connection and TCU Server Connection**

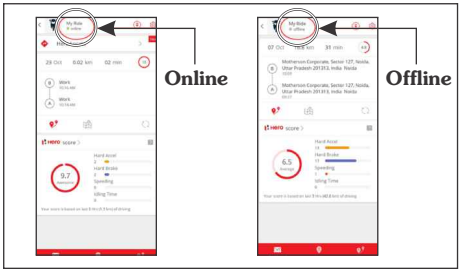
Both TCU and Hero connect app need internet connectivity for their smooth operation. If any of the two does not have internet connectivity, they will not function properly. User can check internet connectivity status as explained below.

- Connectivity of mobile app with server
  User can check if hero connect application has connection with server.

Grey socket icon mean, hero connect app is not connected with the server.

Red socket icon mean, hero connect app is connected with the server.

- Connectivity of TCU with server
  User can check if TCU has connection with server.



Online status mean, TCU is connected with the server.

Offline status mean, TCU is not connected with the server.

- **TCU Power States**

TCU has following power states.

1) Ignition "ON" mode

TCU is in ignition "ON" mode when vehicle ignition is "ON". TCU remains in ignition "ON" mode until ignition is switched "OFF". Once ignition is switched "ON", Hero app will show device status as "online" in 45 seconds. If network is not good, TCU may take more than 45 seconds to come "online". If network is not available, TCU status will be "offline" on application. TCU functionality is dependent on the GSM/GPRS network of the network service provider whose SIM is currently being used. TCU will not work if GSM/GPRS network is not available in the area where vehicle is running.

2) Sleep Mode or Ignition "OFF" Mode Once vehicle ignition is switched "OFF", TCU enters sleep mode. After ignition "OFF", TCU waits for 15 seconds before initiating sleep mode. If ignition is switched "ON" again within 15 seconds, TCU will not initiate sleep mode. Once TCU enters sleep mode, its status is shown as "offline" on mobile application. Usually TCU takes 2 minutes to enter sleep mode. However, in bad network condition TCU may take up to 4 minutes to enter sleep mode.

3) Internal Battery Mode

When TCU external power supply is disconnected, it enters internal battery mode and sends unplugged alert to server. If TCU battery is not charged sufficiently, it will not be able to send alert to server. At complete discharged state, TCU takes minimum 2 hours to charge the battery at a level where it has enough charge to bring up modem and connect with server.

Following timings events are to be considered during internal battery state.

- If TCU is online, it will take maximum 5 sec to send unplug alert.
- If TCU is in sleep mode, it will take around 45 sec to send unplug alert.
- If network is not good, it may take longer time to send unplug alert.
- TCU enables internal battery charging only when vehicle ignition is "ON".
- At complete discharged state, TCU takes minimum 2 hours to charge the battery at a level where it has enough charge to bring up modem and connect with server.
- TCU battery will last up to 2 hours, if fully charged.
- In case if TCU SIM supports dual operator, battery backup may be less as supporting dual operator requires more power in low or no network condition. GSM Modem consumes more power while latching between two different supported networks.
- It takes around 6 hours to fully charge the internal battery.

4) Towing Mode

Towing mode is the mode where vehicle is moving without ignition "ON". The vehicle must cover 100 meters of distance from its last parked location to enter towing mode.

5) 12 Hour ignition "ON" timeout

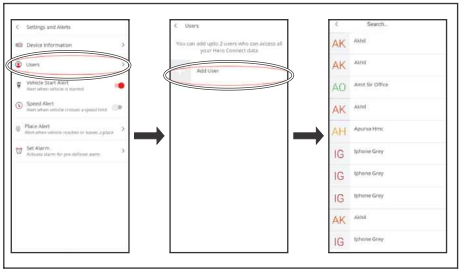
If vehicle ignition is "ON" for 12 or more hours, TCU will restart itself. This implementation is done to handle any kind of software hang problem. This is usually not observed in field conditions as vehicle ignition does not remain "ON" for 12 hours in practical scenario. If this timeout happens, TCU restarts itself. This will be like a fresh power cycle for TCU. So, it will send vehicle start alert and create a new trip if previous trip was ongoing. User will get a false vehicle start alert and previous trip will end and a new trip will appear in the trip section. User may also get some false geofence alerts and topple alert if required conditions for these algorithms are met.

6) Low voltage reset

If external supply voltage goes below 5V, TCU may restart depending on the duration for which supply dipped below 5V. This may happen if vehicle battery SOH is not good and engine is cranked. This reset is also like a fresh power cycle for TCU. So, it will send vehicle start alert and create a new trip if previous trip was ongoing. User will get a false vehicle start alert and previous trip will end and a new trip will appear in the trip section. User may also get some false geofence alerts and topple alert if required conditions for these algorithms are met.

- **Adding secondary user**

TCU supports one primary user and two secondary users. The primary user can add two secondary users. Primary user will be able to add secondary user only if hero connect application is installed on mobile. Once added, all users can access TCU functionalities on their mobile application.



- **Setting Alarms**

Hero connect application supports alarms feature. Alarm for unplug alert will be enable by default and user cannot turn off this alarm. Once configured, user will get alarm notification on unplugged alert and time fence breach.

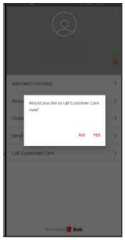
Set alarm option is available for Android platform only. Because of platform limitation, it is not supported in iOS platform.

- **Profile Screen And Other Options**

The profile screen has some miscellaneous features like information about the app, feedback page user can rate the application and customer care contact link.

About

Send feedback



Call customer care

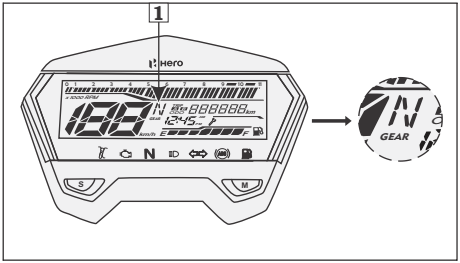
(b) Steering lock

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

(1) Ignition key

(c) Gear indicator

Gear indicator (**1**) indicates current gear position of your vehicle in which it is running.



(1) Gear indicator

NOTE

- ***Gear indicator displays "N" when your vehicle is in neutral.***
- ***Gear indicator displays "–" when it delays in displaying the gear indication or when you change gears in vehicle static condition (vehicle is in main stand and ignition switch is in "ON" position).***

HANDLEBAR SWITCHES CONTROL

Left handlebar controls

1. Headlamp dimmer switch

The headlamp operates only when the engine is running or when passing switch is operated. Press the switch (1) upwards for high beam "" downwards for low beam "".

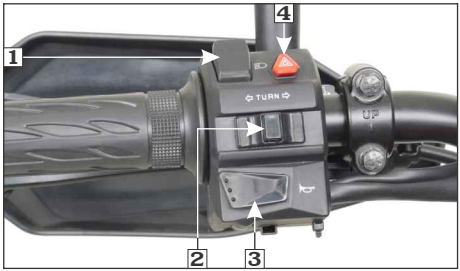
2. Turn signal lamp switch ( )

Shift the turn signal switch (2) 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 the switch inside.

3. Horn switch ( )

Press the switch to operate the horn (3).



(1) Headlamp dimmer switch
(2) Turn signal switch (3) Horn switch
(4) Hazard switch

4. Hazard switch ( )

Press the hazard switch (4) in ignition "ON" condition whenever your vehicle becomes a temporary hazard for other road users and it is necessary to park the vehicle due to breakdown or other unavoidable problems.

Upon pressing the hazard switch, all turn signal lamps start flashing simultaneously to warn other road users behind you of a hazard or obstruction ahead.

To turn "OFF" the indicator lamps in hazard switch "ON" condition, press the hazard switch again.

NOTE

Use hazard lights only when your vehicle becomes a temporary hazard for other road users.

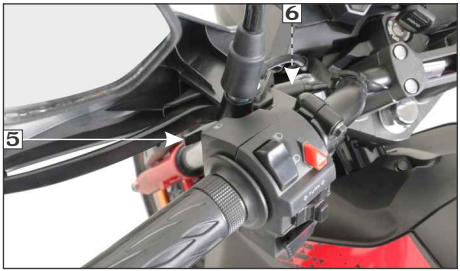
5. Passing switch

Gives an indication for passing ahead.

Press passing lamp switch (5) to operate the passing lamp.

6. Clutch switch

There is a clutch switch (6) 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.



(5) Passing switch **(6) Clutch switch**

Right handlebar controls

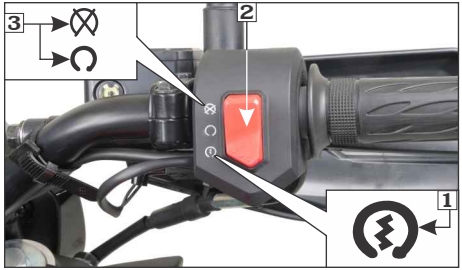
Integrated start-kill switch

(a) Electric starter operation

Press the electric starter (1) of integrated start-kill switch (2) downwards to start the vehicle. Ensure the electric starter operation is done when the vehicle transmission is in neutral. If the vehicle is engaged in gear, press the clutch lever before electric starter operation. Release switch after the engine has started.

! CAUTION

Never hold electric starter of integrated start-kill switch continuously more than 5 seconds as continuous cranking of engine will discharge the battery.



(1) Electric starter
(2) Integrated start-kill switch
(3) Engine stop (ON/OFF)

(b) Engine stop switch operation

For engine stop operation (3) integrated start-kill switch (1) has two positions. In "ON" position, engine will operate and in "OFF" position, engine will not operate. The prime function of it is to stop the engine during emergency (Vehicle tip over, throttle cable stuck etc.). The switch should normally remain in "ON" position. During emergency, put the switch to "OFF" position.

⚠ WARNING

While riding the vehicle in normal condition, do not press the "Integrated start-kill switch to "OFF" (⊗) position to avoid any damage (Wheel locking leading to accident, part damage, battery discharge etc.).

ABS INDICATOR

The ABS indicator (1) on speedometer come "ON" for approx 1.8 seconds when the ignition switch is turned "ON" (Ω) & then keeps blinking until the vehicle attains a speed of 5 km/h.

When the system functions normally indicator goes "OFF" (Ⓐ) once vehicle speed exceeds 5 km/h.

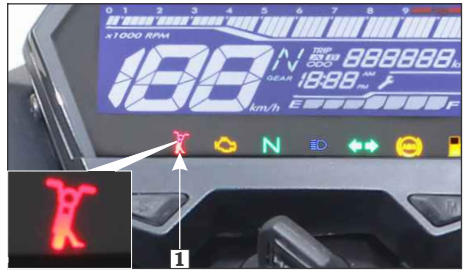
At any point if ABS indicator remains "ON" then ABS is not working, but the brakes still work normally. Reduce your vehicle speed and visit your Authorised Hero MotoCorp workshop.

(1) ABS indicator

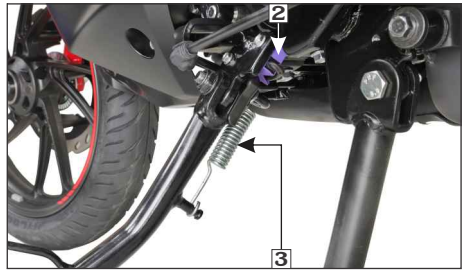
SIDE STAND INDICATOR/SWITCH

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

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



(1) Side stand indicator



(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 side stand is up, the side stand indicator (1) should not glow.
- If the side stand indicator (1) does not operate as described in above steps, please visit your Authorised Hero MotoCorp workshop.

! CAUTION

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

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

This feature has following functions:

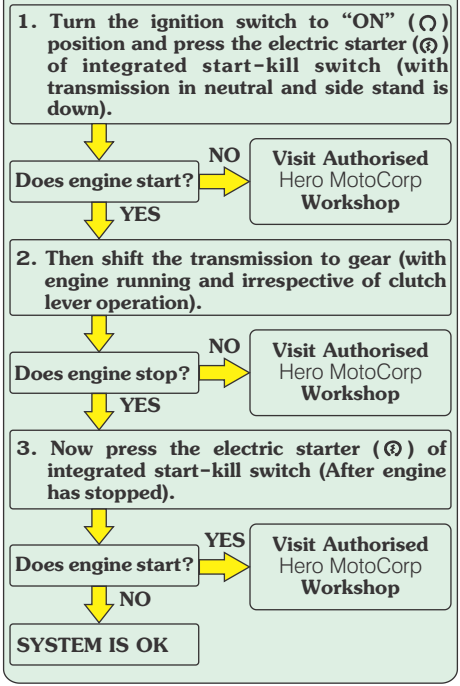
- It prevents starting the engine when transmission is in gear (irrespective of clutch lever operation) and side stand is down.
- It stops the running engine when transmission is in gear (irrespective of clutch lever operation) and side stand is moved down.

⚠ 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



If your vehicle doesn't operate as described in above 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 TANK

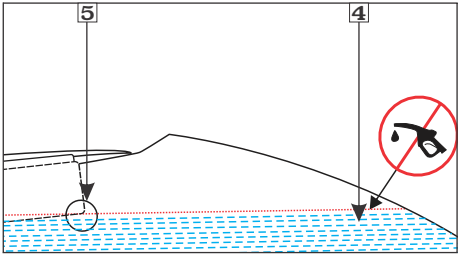
Fuel tank capacity is 12 litres (Be sure to fill the fuel tank when low fuel indicator glows).

(1) Key hole cover **(2) Ignition key**

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

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

- To lock fuel tank cap, close the cap back on the opening and press gently. The key springs back to the normal position and cap gets locked.
- Remove the key and put back the keyhole cover.

CAUTION

Do not park the vehicle under direct sunlight as it causes evaporation of petrol due to heat and deterioration of paint gloss due to ultra violet rays.

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.

SEAT LOCK

Location : On the left side of the rear cowl, above rear wheel.

Operation : Insert the ignition key (1) and turn in clockwise to unlock the seat. To install, engage the seat hooks with frame and press the seat until the lock clicks.

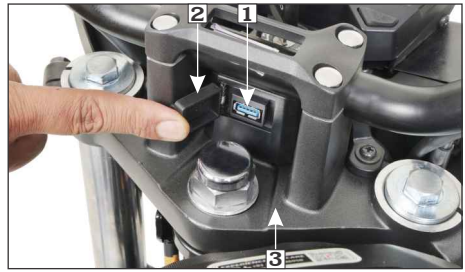
(1) Ignition key

USB CHARGER

A USB charger (1) with a cap (2) located on the top bridge (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 in the charger cable to it. Hero MotoCorp will not be responsible for damages caused due to use of non-standard USB cable.



(1) USB charger (2) Cap (3) Top bridge

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 have 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 fuel tank cover 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 40).** 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 20)**. Check for leaks.
- **Low fuel indicator-**Vehicle should not be operated with low fuel indicator glowing continuously **(page 20)**.
- **Front brake-**Check for correct brake fluid level in master cylinder/reservoir **(page 61).**
- **ABS indicator-**Check ABS indicator for proper functioning of ABS **(page 34).**
- **Rear brake-**Check for correct brake fluid level in the reservoir **(page 62).**
- **Tyres-**Check condition and pressure **(page 67).**
- **Clutch-**Check for smooth operation. Adjust free play if necessary **(page 56).**
- **Drive chain-**Check condition and slackness **(page 58).** Lubricate if necessary.
- **Throttle-**Check for smooth opening and closing in all steering positions **(page 57)**.

- **Lamps & Horn–**Check that headlamp, position lamps, tail/stop lamp, turn signal lamps, indicators and horn function properly.
- **Rear view mirror–**Ensure that the rear view mirror gives a good rear view when you are sitting on the vehicle.
- **Integrated start–kill switch–**Check for proper functionality **(page 33)**.
- **Fitting & Fasteners–**Check & tighten if necessary.
- **Steering–**Check for smooth action and for easy maneuverability.
- **Side stand–**Check for proper functionality **(page 34).**

STARTING THE ENGINE

Always follow the proper starting procedure described below :

- To protect the catalytic converter in your vehicle's exhaust system, avoid extended idling and the use of leaded petrol.
- 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 with the garage door closed.

! CAUTION

- ***Never hold electric starter (Ⓢ) of integrated start–kill switch continuously more than 5 seconds as continuous cranking of engine will discharge the battery.***
- ***This vehicle is equipped with a side stand engine kill feature (page 24).***

Preparation

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

- Turn the ignition switch (1) to "ON" (🔑) position.

(1) Ignition switch
(2) Malfunction indicator lamp (MIL)

- Confirm that the programmed FI malfunction indicator lamp (MIL) (2) glows continuously and then should go "OFF" once the engine is started.

NOTE

If MIL remains "ON" even if the vehicle 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***

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

(3) Neutral indicator

(4) Integrated start-kill switch

- Make sure that the integrated start-kill switch (4) is at "ON" (⚷) position.
- **Electric start :** Press the electric starter (⚷) of integrated start-kill switch with fully closed throttle.
- **Kick start :** Depress the kick starter until resistance is felt. Then let the kick starter return to the top of its stroke. Kick from the top of the stroke through to the bottom with a rapid, continuous motion.

Starting procedure

At any ambient temperature, Press the electric starter (⚷) of integrated start-kill switch with the throttle completely closed.

NOTE

This vehicle has a fuel-injected engine with an idle air control valve (IACV).

Flooded engine

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

- If the engine does not start wait for 15-20 seconds, and try restarting the engine with throttle completely closed.
- If the engine starts with unstable idle, open the throttle slightly.

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 starts and rapid acceleration.

NOTE

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

WARNING

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

RIDING

- While the engine is idling, press the clutch lever and depress the gearshift pedal downwards using the toe to shift into 1st 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 placing the toe on the underside of gear pedal and lift upwards.
- This sequence is repeated progressively to shift to 3rd, 4th and 5th gear.

CAUTION

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

BRAKING

Anti-lock braking system (ABS)

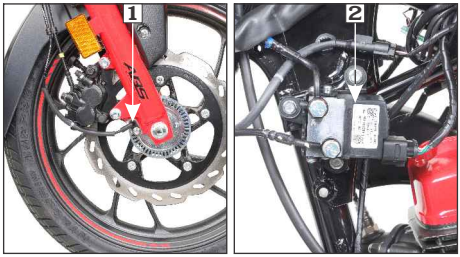
This model is equipped with Anti-lock braking system (ABS) which enhances active safety by helping to prevent the wheels from locking during braking.

ABS is designed to meet two essential requirements during every brake application:

- To help provide vehicle stability.
- To help maintain steering control and maneuverability–on road surfaces.

The ABS system is self-regulating and always active once vehicle speed exceeds 5 km/h.

- The ABS controller acts on the basis of the comparative speeds of the front wheel. The use of non-approved tyres can affect the speed of the wheels and supply incorrect information to the ABS computer.



(1) Wheel speed sensor
(2) Hydraulic electronic control unit (HECU)

(3) ABS indicator

The system has a wheel speed sensor (1), hydraulic electronic control unit (HECU) (2), and an ABS indicator lamp (3) on meter console.

Whenever you ride your vehicle, Wheel speed sensor monitors the speed of the wheel and sends the input to Hydraulic Electronic control unit (HECU). Then HECU monitors your vehicle and takes control when vehicle speed exceeds 5 km/h.

Now whenever you will apply front brake, ABS will come into picture and based on the input from wheel speed sensor, HECU will modulate the pressure at front caliper thus avoiding wheel to lock and in turn resulting safe stop of the vehicle.

Do's and Dont's

Do's

- Check your brake pads and be sure you have clean brake fluid. ABS systems can also fail due to worn brake pads or air or dirt in brake fluid.
- Use the recommended brake fluid.
- If brake gets wet, apply the brake while riding at low speed to help them dry.
- It is recommended that ABS should be serviced at Authorised Hero MotoCorp workshop.
- Read your owner's manual for additional riding instructions.
- Carefully remove the wheel during the puncture/tyre replacement to prevent the Sensor ring damage/bend.
- Use only the recommended make, type, size of tyre and maintain specified tyre pressure **(page 67).**

- Keep checking speedometer. In case of ABS malfunction, speed display may go to zero.
- Always maintain sufficient distance from the objects/vehicles ahead, for proper braking and to match riding speed.
- On certain surfaces, such as rough road or gravel road, brake lever may have hard/ pulsating feel. Apply full braking on the lever even on the hard or pulsating feel of the lever to get the optimum performance.
- In case of ABS malfunction, the brake system will work as conventional (Non-ABS) brake. Rider is recommended not to apply hard brake to prevent wheel lock and visit Authorised Hero MotoCorp workshop.

Don't's

- Don't panic by mechanical noises or slight lever pulses while applying the brake (whenever ABS actuates) in vehicle. These conditions are normal and indicates that ABS is working.
- Don't apply the hard braking in wet or rainy conditions and while taking a turn.
- Do not adjust the wheel speed sensor air gap yourself.
- Do not attempt to correct the encoder teeth by bending manually or by using any other mode. Do not use a different encoder teeth
- Do not insert any metallic part near wheel speed sensor.
- Don't try to service HECU or open to separate the parts.
- Don't use the non-genuine spares like pads, discs, tyres etc.

NOTE

- ***ABS may get activated without brake application while riding on uneven road surfaces (sharp drop or rise on the road level). This is normal functioning of ABS and won't be having any impact on performance.***
- ***ABS may not work if the battery is discharged.***
- ***ABS operation is also affected by road conditions, vehicle handling and brake operation. It is the rider's responsibility to ride at reasonable speed and to leave a margin of safety.***
- ***ABS consists of an electric motor, from which sound can be heard.***

PARKING

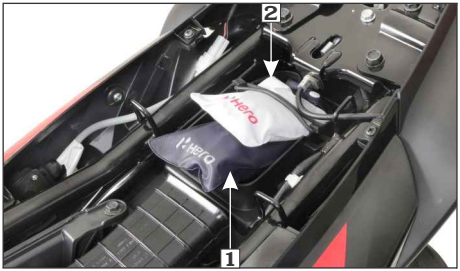
After stopping the vehicle, shift the transmission to neutral, turn the ignition switch "OFF" (⊗), park the vehicle on main stand, lock the steering and remove the key.

! CAUTION

- ***Park the vehicle on firm level ground to prevent overturning.***
- ***While parking on side stand engage the first gear.***

TOOL KIT/FIRST AID KIT

The tool kit (1) is located below the seat in the rear. Some emergency repairs, minor adjustment and parts replacement can be performed with the tools contained in the kit.



(1) Tool kit **(2) First aid kit**

Kit consists of following tool:

- Tool bag–1 No.
- + , – Driver No.2–1 No.
- Grip–1 No.
- Box wrench P16 x 14–1 No.
- Handle pin spanner–1 No.
- Pin spanner–1 No.
- No.3 cross point screw driver–1 No.

The first aid kit (2) is located below the seat in rear. For some emergency first aid can be performed by medicine contained in the kit.

Kit contains the following items :

- Antiseptic cream–1 No.
- Sterilised dressing–1 No.
- Water proof plaster–1 No.
- Elastic bandage–1 No.
- Gauze (Rolled bandage)–1 No.
- Sterilised elastic plaster–1 No.
- First aid bag–1 No.

CLEANING AND WASHING OF VEHICLE

Follow the below mentioned steps for washing the vehicle.

- Wet the vehicle with light water spray. Avoid directing water to 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

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

Remember that your Authorised 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 38)** at each scheduled maintenance period.

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

The following maintenance schedule specifies all maintenance required to keep your vehicle in peak operating condition. Maintenance work should be performed in accordance with standards and specifications of 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 90 days or 3000 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 15000 km or early replacement may be required when riding in dusty areas.

Note-3 : Replace engine oil once in every 6000 km. Top up if the oil level is at or near the lower level mark.

Note-4 : Visit Authorised Hero MotoCorp workshop for inspection, cleaning, lubrication and adjustment of drive chain at every 1000 km.

Note-5 : Replace brake fluid once in every two years or 30000 km, whichever is earlier.

Note-6 : Inspect & maintain specified torque.

Note-7 : Inspect the wheel bearings free play, replace if necessary.

Note-8 : Replace front fork oil once in a every 2 years or 30000 km, whichever is earlier.

Note-9 : Inspect rear suspension mounting bushes play, replace rear shock absorber if necessary.

Note-10 : Check CO emission at idle.

Note-11 : 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 the water.

Give a missed call to
+91 8367796950

or Scan QR code

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					AFTER FREE SERVICE ONCE IN EVERY				
		SERVICE	1st	2nd	3rd	4th	5th					
		DAYS	1st 60	Next 100	Next 100	Next 100	Next 100					
		KM Note-1	500-750	3000-3500	6000-6500	9000-9500	12000-12500	3000	6000	9000	12000	15000
	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
	Spark Plug		I, C, A	I, C, A	I, C, A	I, C, A	R	I, C, A			R	
	Valve Clearance		I, A	I, A	I, A	I, A	I, A	I, A				
	Engine Oil	Note-3	O	I, T	O	I, T	O	I, T	O			
	Engine Oil Strainer Screen		C		C		C		C			
	Engine Oil Centrifugal Filter		C		C		C		C			
	Electric Starter		I	I	I	I	I	I				
	Oil Circulation		I	I	I	I	I	I				
	Drive Chain	Note-4	I,C,L,A at every 1000 km					I,C,L,A at every 1000 km				
	Drive Chain Slider			I	I	I	I	I				
	Battery Voltage Inspection with Midtronics tester		I	I	I	I	I	I				

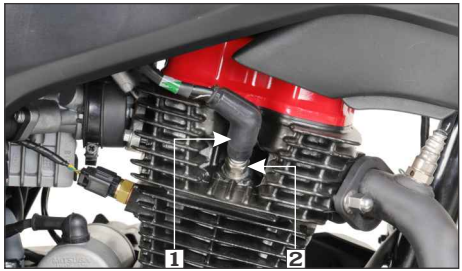
	ITEMS	WHICHEVER COMES FIRST	DURING FREE SERVICE PERIOD					AFTER FREE SERVICE ONCE IN EVERY				
		SERVICE	1st	2nd	3rd	4th	5th					
		DAYS	1st 60	Next 100	Next 100	Next 100	Next 100					
		KM Note-1	500-750	3000-3500	6000-6500	9000-9500	12000-12500	3000	6000	9000	12000	15000
	Brake Pad Wear		I	I	I	I	I	I				
	Brake Fluid	Note-5	I	I	I	I	I	I				
	Brake System (Brake Pedal)			C, L		C, L				C, L		
	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/Main Stand		L	L	L	L	L	L				
	Side Stand Switch		I, C	I, C	I, C	I, C	I, C	I, C				
	Nut, Bolts & Fasteners	Note-6	I	I	I	I	I	I				
	Wheels Bearings	Note-7	I	I	I	I	I	I				
	Wheel/Tyres		I	I	I	I	I	I				
	Steering Head Bearing		I	I, A	I	I, A	I, L, A	I	I, A		I, L, A	
	Front Suspension/ Oil Leakage	Note-8	I	I	I	I	I	I				
	Rear Suspension	Note-9	I	I	I	I	I	I				
	Muffler (Catalytic Converter)	Note-10			I, E		I, E		I, E			
	Evaporative Emission Control System	Note-11	I	I	I	I	I	I				

SPARK PLUG INSPECTION

Recommended plugs:
NGK-CPR 8 EA9, BOSCH UR5DC

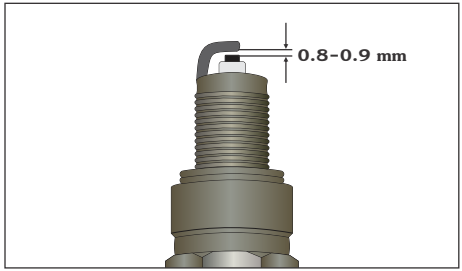
For most riding conditions this spark plug heat range number is satisfactory. However, if the vehicle is going to be operated for extended periods at high speeds or near maximum power in hot climates, the spark plug should be changed to a cold heat range number, consult Authorised Hero MotoCorp workshop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

- Clean 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 **0.8-0.9 mm** using a wire-type feeler gauge. If adjustment is necessary, bend the side electrode carefully. Make sure the plug washer is in good conditions.



- With the plug washer attached, thread the spark plug in by hand to prevent cross-threading.
- Tighten a new spark plug 1/2 turn after the plug seats, with a spark plug box 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).

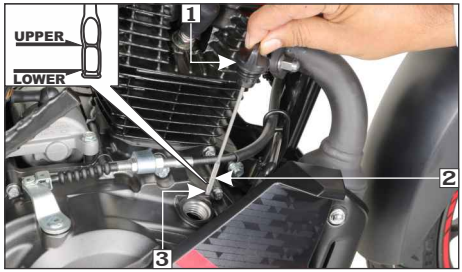
Manufactured by:

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

OIL CAPACITY: 1.3 litres (at disassembly)
: 1.09 litres (at draining)

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.



(1) Oil level dipstick (2) Upper level mark
(3) Lower level mark

- Do top up if oil level reaches towards the lower level mark or every 3000 km whichever is earlier.
- Park the vehicle on its main stand.
- Start the engine & let it idle for 3-5 minutes.
- Remove the fuel tank cover **(page 71).**
- Slightly loosen the engine oil check bolt (4) and check the engine oil entry into the cylinder head cover.

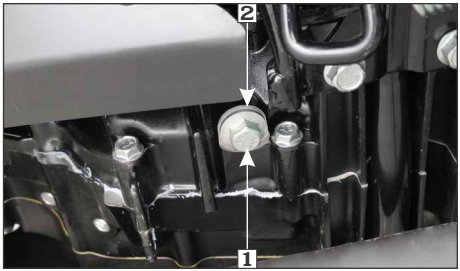
(4) Engine oil check bolt

- After checking the oil circulation, tighten the engine oil check bolt.
- 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 with new O-ring and check for oil leaks.

Engine oil replacement/
Oil circulation inspection

- Start the engine, warm it up for several minutes and then turn it off.
- Wait a few minute until the oil settles down.
- To drain the oil, remove the oil level dipstick, drain bolt (1) and sealing washer (2).



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

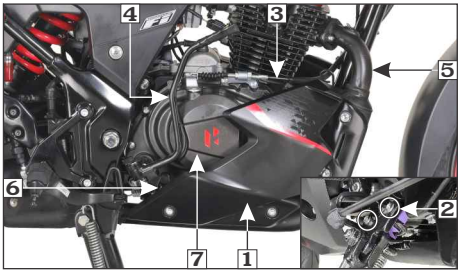
- After the oil has completely drained, reinstall the drain bolt (1) with a new sealing washer (2).
- Fill the crankcase through the oil filler hole with 1.09 liters (approximately) of the recommended grade oil as the right crankcase cover is not removed.
- Reinstall the oil level dipstick with a new O-ring.
- Start the engine and allow it to idle for few minutes.
- Stop the engine and let the engine oil settle down.
- Recheck the oil level.
- Make sure that oil level is at the "UPPER" level mark of the oil level dipstick with the vehicle in an upright position and that there are no oil leaks.

! CAUTION

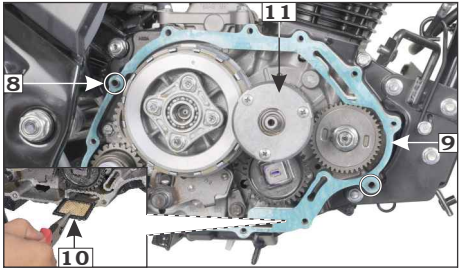
- ***Running the engine with insufficient oil can cause serious engine damage.***
- ***Running the engine with excessive oil can cause spark plug fouling & loss in performance.***
- ***Engine oil is a major factor affecting the performance and service life of the engine. Non-detergent, vegetable or castor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

OIL FILTER SCREEN & CENTRIFUGAL FILTER CLEANING

- Drain the engine oil throughly.
- Remove the belly pan (1).
- Remove the side stand switch bolts (2).
- Disconnect the clutch cable (3), remove the kick start pedal (4) and exhaust muffler (5).
- Remove the kick stopper with side stand (6) and right crankcase cover (7).
- Remove the dowel pins (8) and gasket (9).
- Remove the oil filter screen (10) and wash it in clean non flammable or high flash point solvent (kerosene).

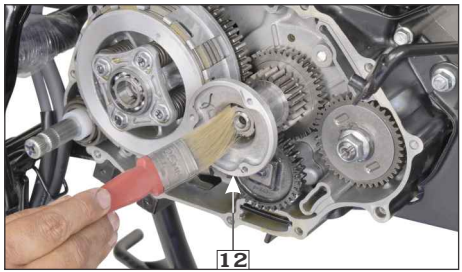


(1) Belly pan (2) Side stand switch bolts (3) Clutch cable (4) Kick start pedal (5) Exhaust muffler (6) Kick stopper with side stand (7) Right crankcase cover



(8) Dowel pins (9) Gasket (10) Oil filter screen (11) Centrifugal filter cover

- Reinstall the filter screen with the tapered end facing in.
- Remove centrifugal filter cover (11) & clean the centrifugal filter (12) with non flammable or high flash point solvent (kerosene).



(12) Centrifugal filter

- Reinstall the centrifugal filter cover with new gasket.
- Install the new dowel pins & gasket, right crankcase cover and connect the clutch cable.
- Install kick stopper with side stand, kick start pedal and exhaust muffler.
- Install the side stand switch bolts.
- Install the belly pan.
- Fill the crankcase with clean engine oil as per specification **(page 51).**

NOTE

- ***Clean filters as specified in the maintenance schedule.***
- ***Ensure to replace gasket & dowel pin with new one once removed***

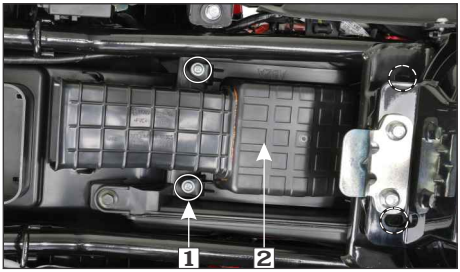
AIR CLEANER

Air cleaner element inspection

The air cleaner is wet paper pleated type filter which has enhances filtering efficiency. The air cleaner should be replaced at regular

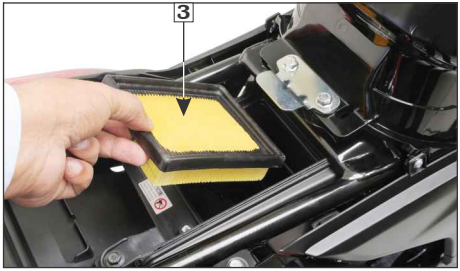
intervals **(page 47).** When riding in dusty areas, more frequent replacement may be necessary.

- Remove the seat assembly **(page 37).**
- Remove the air cleaner cover screws (1) and the cover (2).



(1) Side cover screws **(2) Side cover**

- Remove the air cleaner element (3).

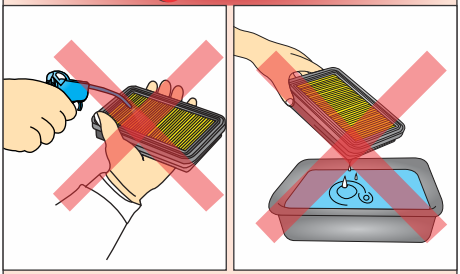


(3) Air cleaner element

NOTE

Align the tabs of air cleaner cover before installing screws & the cover.

CAUTION



- ***Never wash or clean the wet, paper pleated type filter. Replace filter element once in every 15000 km.***
- ***Replace it earlier if it becomes very dirty, damage on surface or on the sealing area.***

- Clean the air cleaner housing using a shop towel.
- Install the new air cleaner element.
- Install the air cleaner element cover.
- Install the seat **(page 37)**.

Air cleaner drain tube 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

NOTE

Always ensure to reinstall the drain tube after draining the deposit.

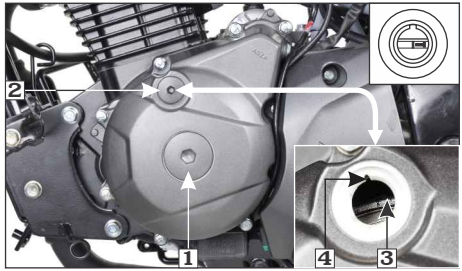
VALVE CLEARANCE ADJUSTMENT

Excessive valve clearance will cause noise, and little or no clearance will prevent the valve from closing and cause valve damage and power loss. Check valve clearance at the specified intervals **(page 47).**

NOTE

The checking or adjustment of valve clearance should be performed while the engine is cold. The clearance will change as the engine temperature rises.

- Remove the belly pan.
- Remove the fuel tank cover **(page 71)**.
- Remove the crankshaft hole cap (1) and timing hole cap (2).
- Remove the cylinder head cover.



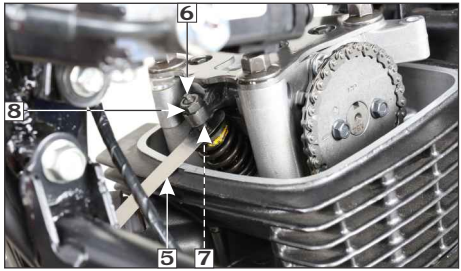
(1) Crankshaft hole cap (2) Timing hole cap
(3) 'T' mark (4) Index mark

- Rotate the flywheel anticlockwise until the "T" mark (3) on the flywheel coincides with the index mark (4) on the left crankcase cover. In this position the piston will either be on the compression or exhaust stroke.

The adjustment must be made when the piston is at top dead center and both the inlet and exhaust valves are closed.

This condition can be determined by moving the rocker arms. If they are free, it is an indication that the valves are closed and the piston is in compression stroke. If they are tight, the valves are open, rotate the flywheel 360° anticlockwise and realign the "T" mark with the index mark.

- Check the clearance by inserting the feeler gauge (5) between the adjusting screw (6) and valve stem (7).



(5) Feeler gauge **(6) Adjusting screw**
(7) Valve stem **(8) Lock nut**

Standard clearance (cold condition)
Intake: 0.12 mm
Exhaust: 0.13 mm

- If adjustment is required, adjust by loosening the lock nut (8) and turning the adjusting screw until there is a slight drag on the feeler gauge.
- After tightening the lock nut, check the clearance again.
- Installation is in the reverse order of removal.

NOTE

Before inserting the feeler gauge, smear a bit of engine oil on the feeler gauge to avoid damage to the feeler gauge.

CLUTCH LEVER FREE PLAY

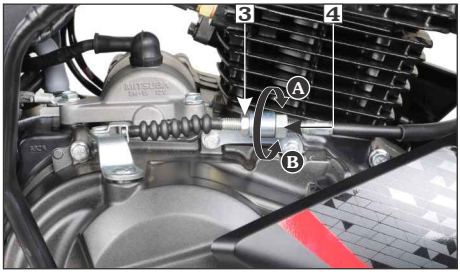
Adjustment

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**

- 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.



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

- 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.

NOTE

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

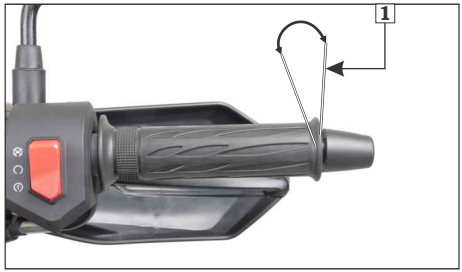
Other checks

- 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.

THROTTLE OPERATION

Cable inspection

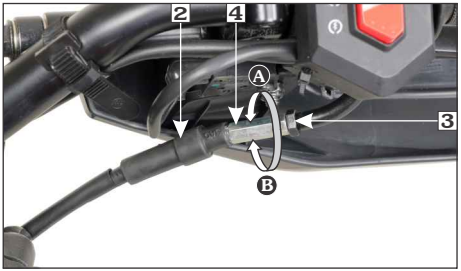
Check for smooth rotation of the throttle grip from the fully open to the fully closed position. Check at full left and full right steering positions. Inspect the condition of the throttle cable from the throttle grip down to the throttle body. If the cable is kinked, chafed or improperly routed, it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

To adjust the free play, slide the boot (2), then loosen the lock nut (3). Turn the adjuster (4) to adjust free play. After adjustment, tighten the lock nut and slide the boot on the adjuster and locknut securely.



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

DRIVE CHAIN SLACKNESS

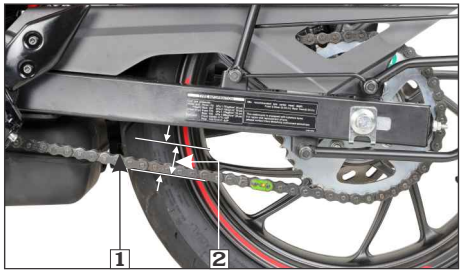
The service life of the drive chain depends upon proper lubrication and adjustment.

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 38).** 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.
- Drive chain slack (2) should be checked in the lower run midway between the sprockets. Move the drive chain up and down by hand and chain slack should be adjusted to 20-25 mm vertical movement by hand.
- Rotate the wheel and check the drive chain slack. Repeat this procedure several times. Drive chain slack should remain constant (20-25 mm). If the chain is slack only in certain sections, some links are kinked or binding. Binding and kinking can be eliminated by frequent lubrication.

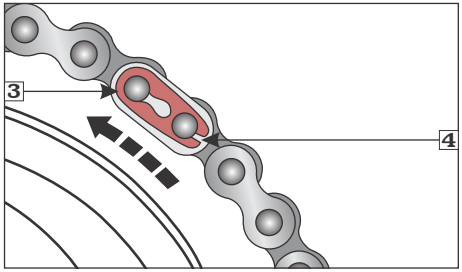


(1) Drive chain
(2) Drive chain slack: 20-25 mm

NOTE

Drive chain slack should be adjusted at your Authorised Hero MotoCorp ***workshop as per the specification.***

- Turn the chain to view chain lock plate (3). Ensure that the chain lock plate open end (4) is installed in the opposite direction of the chain rotation.
- Rotate the rear wheel slowly and inspect the drive chain and sprockets for any of the following conditions.



(3) Chain lock plate **(4) Open end**

Drive chain

- Damaged rollers
- Loose pins
- Dry or rusted links
- Kinked or binding links
- Excessive wear
- Improper adjustment
- Damaged or missing O–rings.

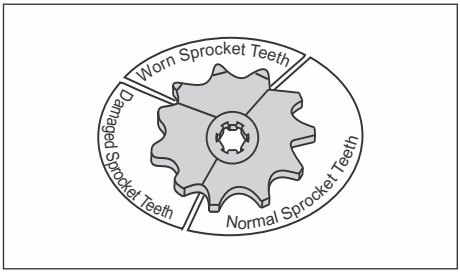
Sprockets

- Excessively worn teeth
- Broken or damaged teeth.

If the drive chain has damaged rollers, loose links or missing O–rings, replace it. If the chain is dry or rusted, it should be lubricated.

Lubricate the chain if the links are kinked or binding. If the problem is not solved after lubrication, replace the chain.

If the drive chain or sprockets are excessively worn or damaged, they should be replaced.



! CAUTION

Always replace the drive chain and sprockets as a set. Otherwise the new part will wear prematurely.

Adjustment

Drive chain slack should be checked and adjusted, if necessary at every 1000 km.

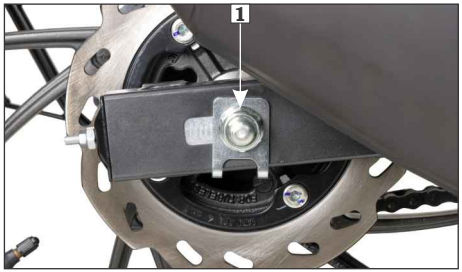
When operated at sustained high speeds or under conditions of frequent rapid acceleration, the chain may require more frequent adjustments.

If the drive chain requires adjustment, follow the procedures below:

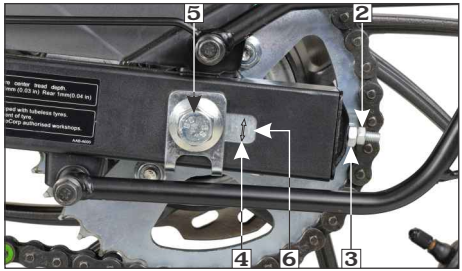
- Park the vehicle on its main stand with the transmission in neutral and the ignition switch in "OFF" position.
- Loosen the rear axle nut (1).
- Loosen the drive chain lock nut (2).
- Turn the adjusting nut (3) in an equal number of turns until the correct drive chain slack is obtained. Turn the adjusting nut clockwise to decrease the slack or

anticlockwise to increase the slack of the chain.

- Align the chain adjuster index mark (4) with the rear edge (5) of the adjusting slots on both sides of the swingarm equally.



(1) Rear axle nut



(2) Drive chain lock nut
(3) Drive chain adjusting nut (4) Index mark
(5) Axle (6) Rear edge of adjusting slot

- Tighten the rear axle nut.
  Torque: 6.8 kgf-m
- Check the drive chain slack again.
- If after adjustment of drive chain slack, axle (5) touches to the rear edge of adjustment slot (6). Chain kit has to be replaced.

WARNING

If a torque wrench is not used for installation, see your Authorised Hero MotoCorp ***workshop as soon as possible to check for proper assembly.***

Cleaning and Lubrication

Lubricate every 1000 km or sooner if the chain appears dry.

- Turn the engine off, park the vehicle on its main stand and shift the transmission into neutral. Open side stand to facilitate cleaning.
- Spray a commercially available chain cleaner for cleaning the drive chain over its entire length.

NOTE

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

- Rotate the rear wheel backwards to expose the next section of the drive chain and repeat second step until all of the drive chain is cleaned.
- Let the spray dry for about five minutes.
- To remove stubborn dirt, scrub the rollers and side plates with soft nylon brush.

- Apply SAE 90 grade oil on the hanger side of the entire length of the chain using an oil can.
- Wait for 7-10 minutes for penetration of lubricant inside the bush and roller wipe the excessive lubricant from the chain and nearby parts using a clean rag.

NOTE

Excessive lubricant if not wiped off, will aid in accumulation of dust, sand and dirt on the drive chain, increasing its wear and will also be sprayed on the vehicle as well due to chain movement.

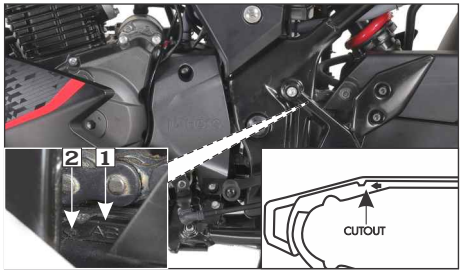
! CAUTION

- ***Steam cleaning, high pressure washers and certain solvents can damage the drive chain O-rings.***
- ***While lubricating and cleaning hold the rear wheel with one hand to prevent the possibility of your finger being trapped between the chain and sprocket.***
- ***Clean and lubricate the chain, whenever possible, after riding the vehicle under rain or in terrain with excessive dust, mud or sand.***
- ***The drive chain is fitted with O-rings between the link plates. These O-rings retain grease inside the chain to improve its service life. However, special precautions must be taken when adjusting, lubricating, washing and replacing the chain.***
- ***If the chain is excessively dirty, it should be removed and cleaned before lubrication. For your own safety, we recommend that service be performed by an Authorised*** Hero MotoCorp ***workshop.***

DRIVE CHAIN SLIDER INSPECTION

(Refer to "Maintenance schedule" on **page 47**).

Check the chain slider (1) for wear, The chain slider must be replaced if wear limit is reached. For replacement, see your Authorised Hero MotoCorp workshop.



(1) Chain slider **(2) Wear limit**

BRAKES

Refer to the safety precautions on **(page 46).**

(a) Front brake

Master Cylinder/Reservoir (1)

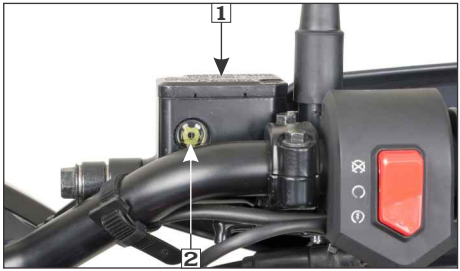
Location : Right handlebar.

Brake fluid recommended:

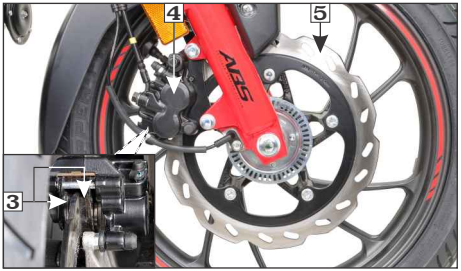
DoT3 or DoT-4.

Fluid level – Ensure that the brake fluid level does not fall below "LWR" (lower) mark (2) on master cylinder, when checked with the master cylinder parallel to the ground. The level decreases gradually due to piston movement to compensate pad wear. If the

level decreases abruptly, check for the leakages in the brake system and consult your Authorised Hero MotoCorp workshop.



(1) Master cylinder **(2) "Lower" mark**



(3) Brake pad **(4) Caliper** **(5) Disc**

NOTE

- ***Clean the dirt and mud accumulation between the front brake caliper (3), brake pads (4) and the disc (5) by using a water jet.***

- ***Always contact your Authorised*** Hero MotoCorp ***workshop for refilling of master cylinder/reservoir when necessary. Do not mix DoT 3 and DoT 4 brake fluid.***
- ***Always use recommended tyres (page 67) for better braking performance.***

(b) Rear brake

Refer to the safety precautions on **(page 46).**

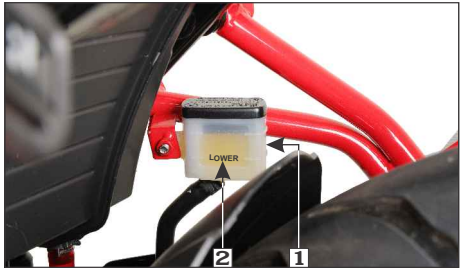
Reservoir (1)

Location : Near pillion footrest.

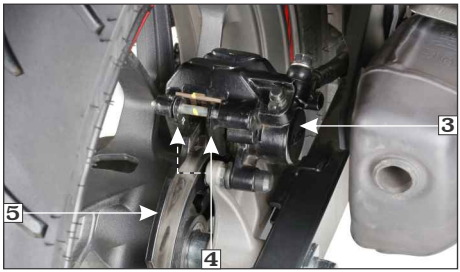
Brake fluid recommended:

DoT3 or DoT-4.

Fluid level – Ensure that the brake fluid level does not fall below "LOWER" mark (2) on the reservoir parallel to the ground. The level decreases gradually due to piston movement to compensate pad wear. If the level decreases abruptly, check for the leakages in the brake system and consult your Authorised Hero MotoCorp workshop.



(1) Reservoir **(2) "Lower" mark**



(3) Rear caliper (4) Brake pads (5) Disc

NOTE

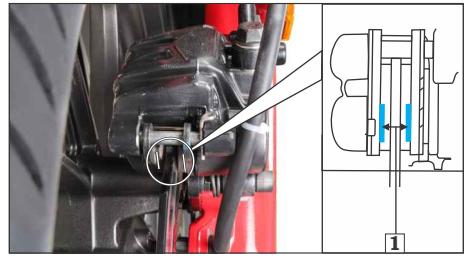
- ***Clean the dirt and mud accumulation between the rear brake caliper (3), brake pads (4) and the disc (5) by using a water jet.***
- ***Always contact your Authorised*** Hero MotoCorp ***workshop for refilling of reservoir when necessary. Do not mix DoT 3 and DoT 4 brake fluid.***

(c) Brake pad wear

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

Front brake

- Check the brake pads for wear by examining the wear indicator groove (1) on each pad.
- If either pad is worn to the bottom of the grooves replace both pads as a set. Visit your Authorised Hero MotoCorp workshop for this service.

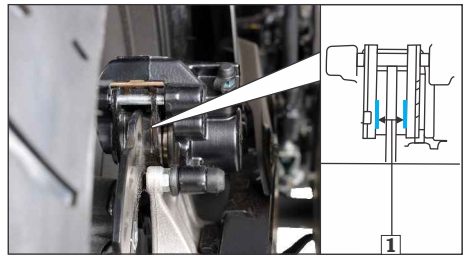


(1) Wear indicator groove

Rear brake

Check the wear indicator groove (1) in each pad.

If either pad is worn to the bottom of the groove, replace both as a set. Visit your Authorised Hero MotoCorp workshop for this service.



(1) Wear indicator groove

WARNING

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

SUSPENSION

Front and rear suspension inspection

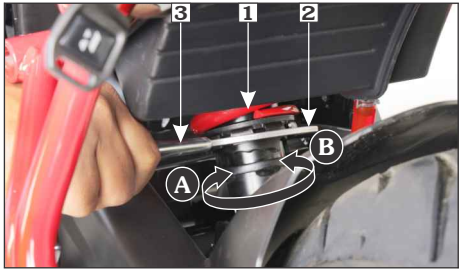
- Check the front forks by locking the front brake and pumping the front fork up and down vigorously. The suspension action should be smooth and there should be no oil leakage.
- Check the rear monoshock absorber by pushing hard downwards on rear grip while the vehicle is not parked on stand. The suspension action should be smooth and there should be no oil leakage.

Rear monoshock absorber adjustment

Rear shock absorber adjustment can be made in any position from 1st to 7th according to the load/road conditions or owner's requirement.

Recommend adjustment

Solo rider : 3rd position
Rider + Pillion: 7th position



(1) Rear monoshock absorber
(2) Pin spanner **(3) Pin spanner handle**
(A) Softer **(B) Stiffer**

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

NOTE

To adjust the rear monoshock absorber (1), use the rear shock absorber adjustment tool [Pin spanner (2) with handle (3)] available in the tool kit.

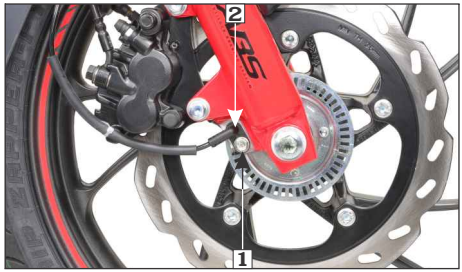
WHEEL

(a) Front wheel

Removal

Refer to the safety precautions on **(page 46).**

- Support the vehicle securely on the main stand and raise the front wheel off the ground.
- Remove the wheel speed sensor bolt (1) from right fork leg and disconnect the wheel speed sensor cable (2).



(1) Wheel speed sensor bolt
(2) Wheel speed sensor cable

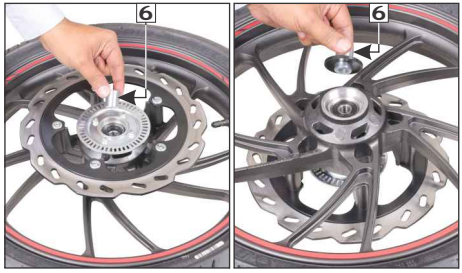
- Remove the front axle nut (3), remove the axle (4) and wheel (5).

! CAUTION

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

- Remove the side collars (6) from both sides from the wheel.

(3) Axle nut (4) Axle (5) Wheel



(6) Side collars

Installation

- Install the side collars (1) to both sides of the wheel hub.
- Insert the disc (2) between the pads in the caliper assembly (3). When installing the wheel, carefully fit the brake disc between the brake pads to avoid damage to the pads.
- Tighten the front axle nut (4) to the specified torque.

TORQUE : 5.9 kgf-m

• 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.

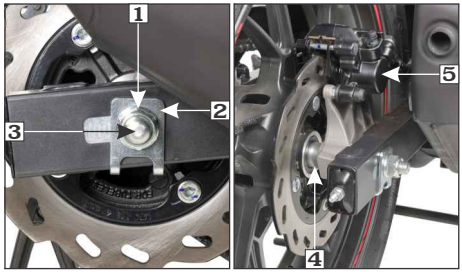
(1) Side collar (2) Disc (3) Caliper (4) Front axle nut

(b) Rear wheel

Removal

Refer safety precautions on **(page 46).**

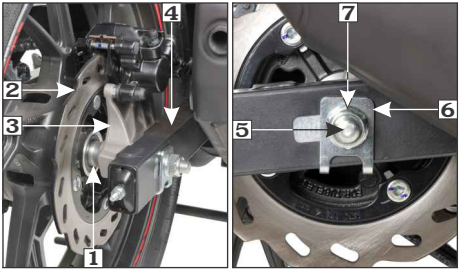
- Support the vehicle securely on the main stand and raise the rear wheel off the ground.
- Remove the rear axle nut (1) and indicator plate (2).
- Remove the axle (3) and the right side collar (4).
- Move the caliper assembly (5) upwards.
- Remove the wheel.



(1) Rear axle nut (2) Indicator plate (3) Axle (4) Side collar (5) Caliper assembly

Installation

- Install the side collar (1) to the right side of the wheel hub.
- Tilt the vehicle and position the rear wheel between the swingarm.
- Insert the disc (2) between the pads in the caliper assembly. When installing the wheel, carefully fit the brake disc between the brake pads to avoid damage to the pads.
- Align the rear caliper holder (3) with the swingarm (4).
- Insert the axle (5) from the left side through the swingarm, wheel hub, collar and rear caliper holder.



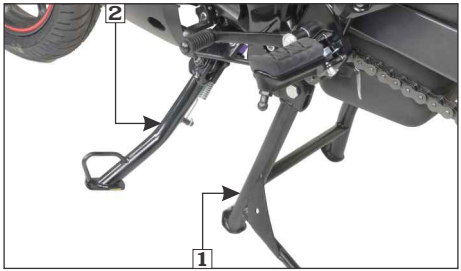
(1) Side collar (2) Disc (3) Caliper holder
(4) Swingarm (5) Rear axle
(6) Indicator plate (7) Rear axle nut

- Install the indicator plate (6) and tighten the rear axle nut (7) to the specified torque.

  TORQUE : 6.8 kgf-m
- Adjust the drive chain slack **(page 58).**

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.
- Lubricate the side stand pivot if necessary.
- Make sure the main/side stand is not bent.



(1) Main stand (2) Side stand

TUBELESS TYRES

The tyres fitted on your vehicles 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.

⚠ 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 a gauge to measure air pressure at least once a month or any time you think the tyres pressure might be low. Tubeless tyres have some self-sealing ability if they are punctured. However, because leakage is often very slow, you should look closely for punctures whenever a tyre is not fully inflated.

Always check air pressure when your tyres are "cold"-when the vehicle has been parked for at least three hours. If you check air pressure when your tyres are "warm"-when the vehicle has been ridden for even a few 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	1.96 kgf/cm^2 (28 psi)	2.10 kgf/cm^2 (30 psi)

(1) Air pressure gauge

! CAUTION

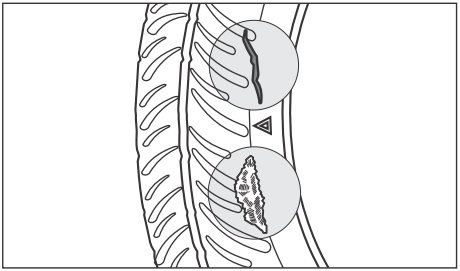
Over inflation/Under inflation will affect the performance.

Inspection

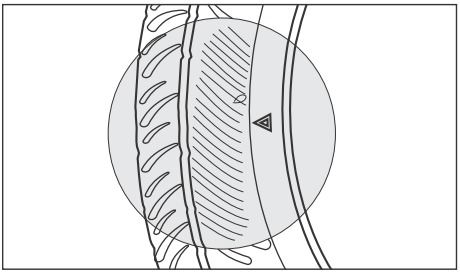
Whenever you check the tyre pressure, you should also examine tyre treads & side walls for wear, damage & foreign objects.

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.

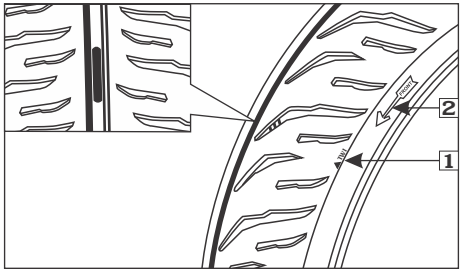
Tread wear

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

MINIMUM TREAD DEPTH:

Front: 0.8 mm **Rear:** 1.0 mm

Check the tread wear indicator for tyre wear.



(1) Tread wear indicator (2) Arrow mark

Unidirectional tyres

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

Tyre repair

Repairing a puncture or removing a wheel requires special tools and technical expertise. If a tyre is punctured or damaged, it is advised to visit nearest tyre manufacture, 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.

The recommended tyre for your vehicle are:

Front	100/80 17 52 P (Tubeless tyre)
Rear	130/70 R17 62 P (Radial tubeless tyre)

NOTE

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

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

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

Refer to the safety precautions on **(page 46).**

Location

The battery is located behind the left side of fuel tank cover.

Specification

*MF Battery-12V-6 Ah/ETZ7

It is not necessary to check the battery electrolyte level or add distilled water as the battery is a **Maintenance-Free (sealed)** type. If your battery seems weak and/or electrolyte is leaking (causing hard starting or other electrical troubles), contact your Authorised 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 additional 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 than two months, ensure to fully charge the battery once in a month.
- Always ensure the battery is fully charged before installation.
- Ensure the battery leads are properly connected to the battery terminals during installation.

Battery removal

- Make sure the ignition switch is "OFF" (⊗).
- Remove the seat **(page 37).**
- Remove the screws (1) from the both the sides.

(1) Screws

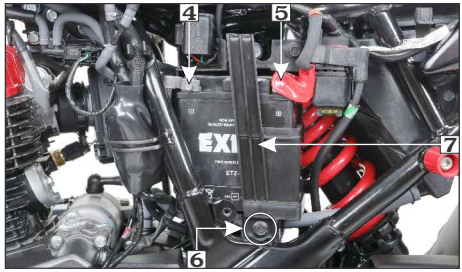
- Remove the bolts (2) from the both rear and front side of the fuel tank.

(2) Bolts

- Remove the fuel tank cover (3).

(3) Fuel tank cover

- Disconnect the (–)ve terminal lead (4) from the battery first, then disconnect the (+)ve terminal lead (5).
- Remove the battery clamp bolt (6) and battery clamp (7).



(4) (–)ve terminal **(5) (+)ve terminal**
(6) Battery clamp bolt **(7) Battery clamp**

• Pullout the battery (8) from the battery box.

(8) Battery

Battery installation

- Reinstall in the reverse order of removal. Be sure to connect the (+)ve terminal first, then the (–)ve terminal.
- Check all fasteners are secure.

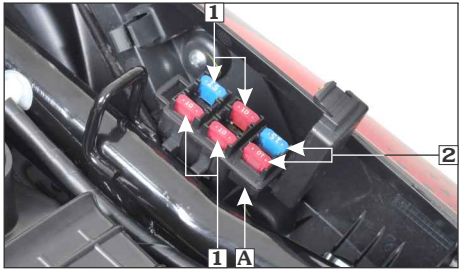
FUSE REPLACEMENT

Refer to the safety precautions on **(page 46).**

The fuse box (A) is below the seat.

Main fuse (1) : 15A, 10A, 10A & 10A

Spare fuse (2) : 15A & 10A



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

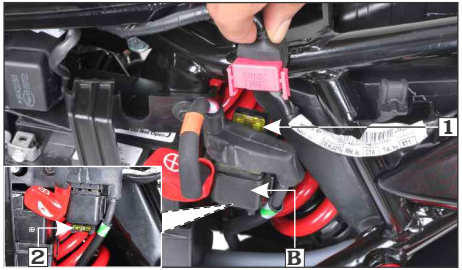
Starter magnetic switch (B)

Location : Inside left side of fuel tank cover, below the starter magnetic switch.

Fuse Type: Blade fuse

Main fuse (1) : (20A)

Spare fuse (2) : (20A)



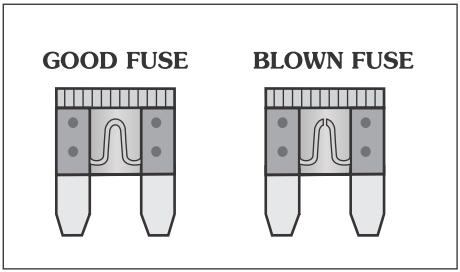
(B) Starter magnetic switch
(1) Main fuse (20A) (2) Spare fuse (20A)

⚠ WARNING

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

! CAUTION

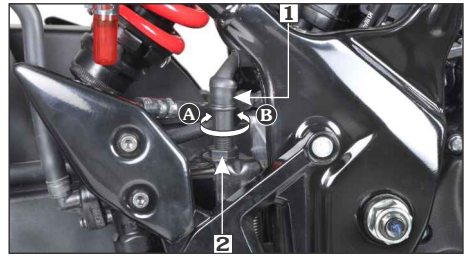
- ***Do not attempt to start or ride the vehicle without a charged battery, it can cause fusing of the bulbs and permanent damage to certain electrical components.***
- ***Turn the ignition switch "OFF" before checking or replacing the fuse to prevent accidental short-circuiting.***



STOP LAMP SWITCH

The stop lamp switch (1) must be adjusted so that stop lamp glows when rear brake is applied. The procedure for adjusting stop lamp is as follows :

- Turn the ignition switch to the "ON" (Ω) position.
- Turn the adjusting nut (2) to position stop lamp switch at a point where the stop lamp glows once the brake pedal is depressed. Turn the adjusting nut in direction (A) to advance switch timing or in direction (B) to retard switch timing.

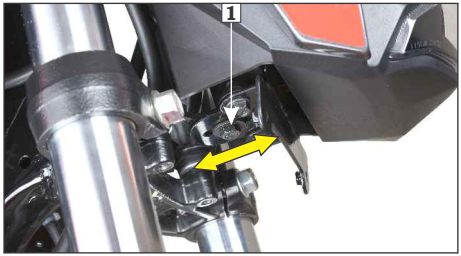


(1) Stop lamp switch **(A) Advance**
(2) Adjusting nut **(B) Retard**

HEADLAMP FOCUS ADJUSTMENT

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

- Headlamp adjustment is done by the loosening the bolt (1) located below the headlamp.
- Park the vehicle on it main stand on level ground.
- Turn the ignition switch to "ON" position (ʘ) and start the engine.
- Adjust the headlamp beam by loosening the bolt (1) and moving the headlamp unit forward and backward for correct focus adjustment.
- Tighten the bolt after 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

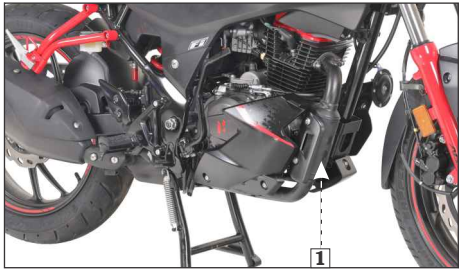
This vehicle is equipped with a catalytic converter (1) in the muffler to meet the emission norms.

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



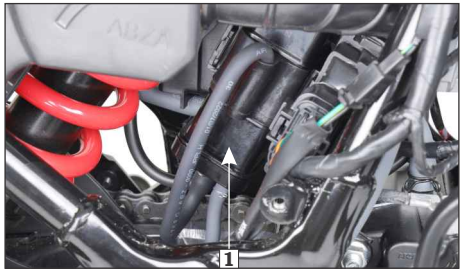
(1) Catalytic converters

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 and then the fuel vapour is drawn into the engine for re-burning to avoid pollution caused by the fuel vapour diffused into the air.



(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

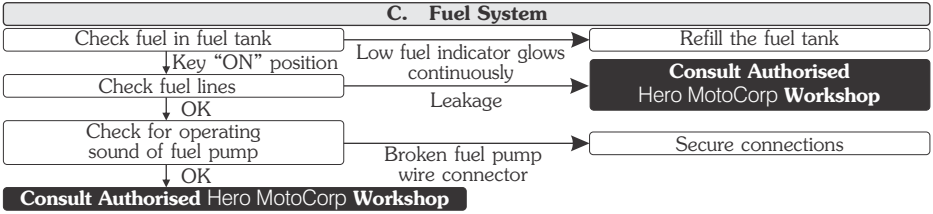
Polishing or waxing is not applicable for models having matte paint.

1. STARTING TROUBLE – ENGINE DOES NOT START

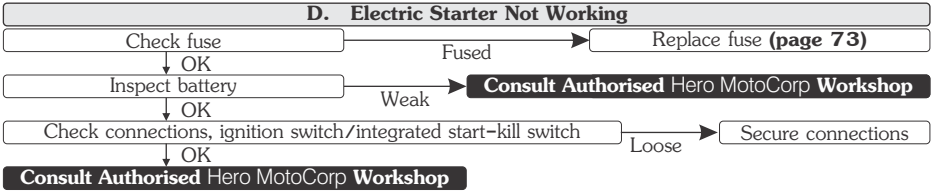
A. Integrated Start-Kill Switch

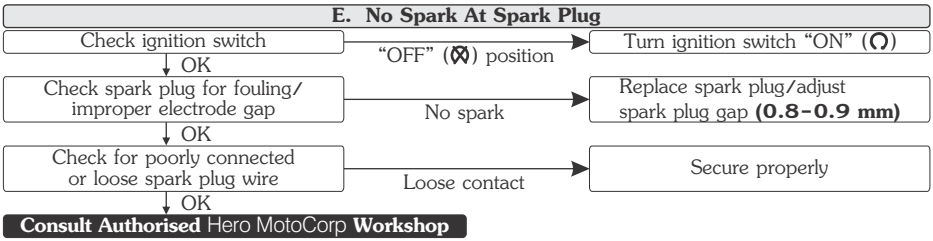
B. Side Stand Engine Kill System

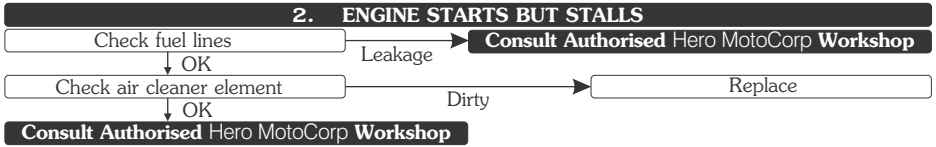
C. Fuel System

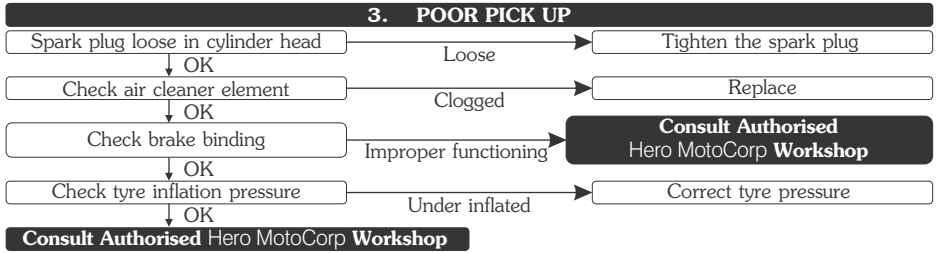


D. Electric Starter Not Working



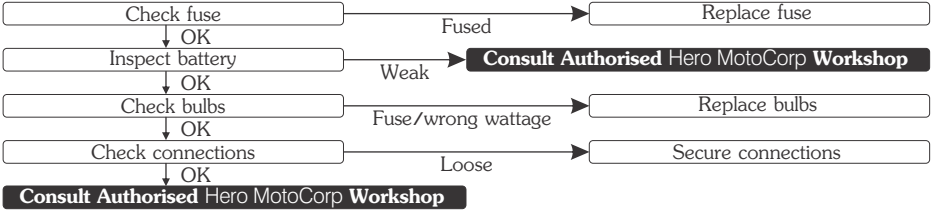

E. No Spark At Spark Plug
Check ignition switch
"OFF" (⊗) position
Turn ignition switch "ON" (Ω)
OK
Check spark plug for fouling/ improper electrode gap
No spark
Replace spark plug/adjust spark plug gap (0.8–0.9 mm)
OK
Check for poorly connected or loose spark plug wire
Loose contact
Secure properly
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 functioning
Consult Authorised Hero MotoCorp Workshop
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



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 Bicyles


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 **XTREME 160R STEALTH** 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) **XTREME 160R STEALTH** 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 90 days from the date of previous service or as per the recommended schedule, whichever is earlier.

c) If any problem is observed in **XTREME 160R STEALTH** 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 **XTREME 160R STEALTH** vehicle needing repair should be brought along with owner's manual to Hero MotoCorp's authorized workshop for necessary inspection and carrying 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 authorized workshop.

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

(3) To normal wear & tear 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/detoriation of the vehicle.

(5) If **XTREME 160R STEALTH** vehicle has been used in any competitive events like races or rallies or for any commercial purposes as taxi etc.

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

(7) For normal phenomena like noise vibration, oil seepage etc., which do not affect the performance of the vehicle.

(8) To any damage caused due to usage of improper oil/grease, non-genuine parts.

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

(10) If any maintenance/repairs required due to bad road conditions or misuse of **XTREME 160R STEALTH** vehicle.

(11) If any defect crops or repairs needed as a result of **XTREME 160R STEALTH** vehicle meeting to some accident.

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

(13) To any part of the **XTREME 160R STEALTH** vehicle which has been tampered or repaired in such a manner which has resulted in malfunction of the vehicle.

(14) For **XTREME 160R STEALTH** vehicle not used in accordance with the guidelines given in this Owner's Manual.

(15) To proprietary items like Tyres, Tubes, Batteries etc, as they are subjected to the warranty terms & conditions of respective manufacturers and directly handled by them only.

(16) 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, aluminium parts oxidation and cracking & discoloring of control switches etc.

(17) Warranty of Telematic Control Unit (TCU) (Hero connect) is handled directly by the manufacturer. In case of any complaint related to the TCU unit, contact the nearest HMCL authorized service centre for assistance or directly contact the manufacturer on heroconnect@rollr.io with name and number, or call on manufacturer support center at +91-95821-22288. Refer TCU warranty page for other warranty information.

Decision regarding warranty settlement shall be taken by Hero MotoCorp **and the same shall be final and binding on all concern.**

Subject to DELHI JURISDICTION only.

BATTERY WARRANTY PERIOD

1. 18 months from date of sale of vehicle or 20000 km. or
2. 21 months from the date of charging (whichever is earlier).
3. 3 months idle period is allowed from the date of charging to date of sale on vehicle.

Terms and condition 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 purchase 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 any OEM dealer. On inspection, battery would 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 totally replacement lies with the company. 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, 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, willfull 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 tempering 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 is leviable on the battery under repair or replacement will be borne by the customer.
13. Customers are deemed to have read, understood and agreed to these conditions at the time of purchase of the vehicle.

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TELEMATIC CONTROL UNIT (TCU) WARRANTY

Warranty of Telematic Control Unit (TCU) is handled by the respective manufacturer. In case of any complaint the customer shall contact the toll free number +91-95821-22288 and heroconnect@rollr.io with name and number, the respective manufacturer will resolve such complaint remotely. In case such problem is not resolved then Customer shall contact the nearest HMCL authorized workshops who shall dismantle the TCU and send it to the respective manufacturer for resolving such problem and again affix the TCU once the complaint is resolve

PRODUCT WARRANTY

36 months from the date of purchase, warranty of the product is limited to manufacturing defects only.

CONDITIONS OF WARRANTY:

1. Product warranty is only valid in India, and the product is not eligible for any international warranty.
2. MI-XLAB may conduct diagnostic tests on customers' products to identify the causes of failures/defects.
3. Prior to contacting a MI-XLAB service agent, please ensure the following information is at hand: Customer's full address and contact information along with Purchase order number, a copy of the customer's original invoice/receipt.

WARRANTY DOES NOT COVER THE FOLLOWING CASES:

1. General maintenance, cleaning, application update/installation, product demonstration, or any other service other than repair/replacement.
2. Deterioration of the product caused by normal wearing and tearing, including but not limited to rust or stains.
3. Any other circumstances that are contradictory or are not in compliance with business ethics.
4. Repair of "Out of Warranty" products shall be separately quoted by the MI-XLAB service centre and respective service shall be provided upon service fee payment.
5. Violations against warranty, including but not limited to customer induced damage, such as self-repairs, damage caused by misuse, alteration.

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) In case any defect is observed in any emission-related component which are covered under emission warranty, Hero MotoCorp 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.

c) The method (s) of examination to determine the warranty conditions of the emission warranty related component will be at the sole discretion of Hero MotoCorp Ltd. and / or Channel Partners / service center and result of such examination shall be final and binding. If on examination the warranty conditions of the part (s) is / are not established, Hero MotoCorp Ltd. will have the right to charge all, or part of the cost of such examination / service charges to the customer in addition to the cost of the components.

d) Hero MotoCorp Ltd. shall have the sole discretion to decide to replace the defective components or the entire assembly or any other part required for such repair.

e) 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.

f) The customer should follow the recommended parts replacement as per the maintenance schedule in order to avail the emission warranty.

g) If any part (s) related to emission characteristics of the vehicles is/are tampered and/or repaired by unauthorized person/ workshops etc, then the emission warranty shall stand cancelled.

h) Any part (s) suffering 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 the customer from time to time, on payment basis, as per the maintenance schedule provided in owner's manual and dealer's advice

i) 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 90 days from the date of previous services or as per the recommended schedule, whichever is earlier. All service details should be completely filled by the dealer, in the **Service Record Sheet** given in the owner's manual.

EMISSION WARRANTY

j) 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.

k) The parts, which are covered under emission warranty are fuel injector, fuel pump, throttle body, ignition coil, oxygen sensor and muffler.

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 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.

m) All decisions regarding emission warranty settlement shall be taken by Hero MotoCorp Ltd. 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/AREA OFFICES

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

CENTRAL ZONE

Hero MotoCorp Ltd., No. 208, 209, 210- 2nd floor, Ganpati Plaza, M.I. Road, Jaipur-302001, (Rajasthan). Tel: +91 141-2389031, 2389156, 2389252, E-mail: jaipur@heromotocorp.com

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