Hero

Xpulse 200T

2023 EDITION

Where Next?



4V FOUR VALVE

OWNER'S MANUAL *Accessories and features shown may not be a part of standard fitment.*

PREFACE

Thank you for selecting a Hero MotoCorp **XPULSE 200T 4V**. 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 BS6 STAGE-VI (OBD STAGE II-A) 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 **XPULSE 200T 4V**. 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 ***'XPULSE 200T 4V' 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: MBLLDU10#########

MBL	LDU10	#	#	#	#	#####
Manufacturer code	Vehicle Description	Check Digit	Model Year	Plant Code	Month of Manufacturing	Production Serial Number

Engine No.: MC20A#########

MC20A#	#	#	#	#####
Engine Description	Year of Manufacturing	Assembly Plant	Month of Manufacturing	Serial Number

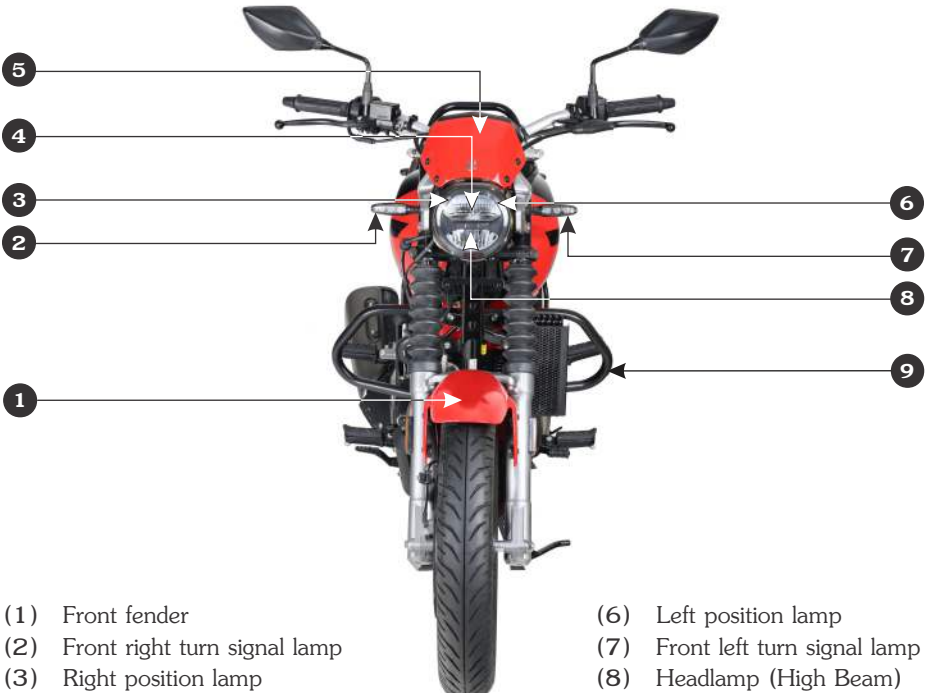
Model: XPULSE 200T 4V

Variants	VIN	Engine
Electric start/Front disc with ABS/Rear disc/Cast wheel	LDU10	MC20A#

VIN and Engine No. may be required:

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

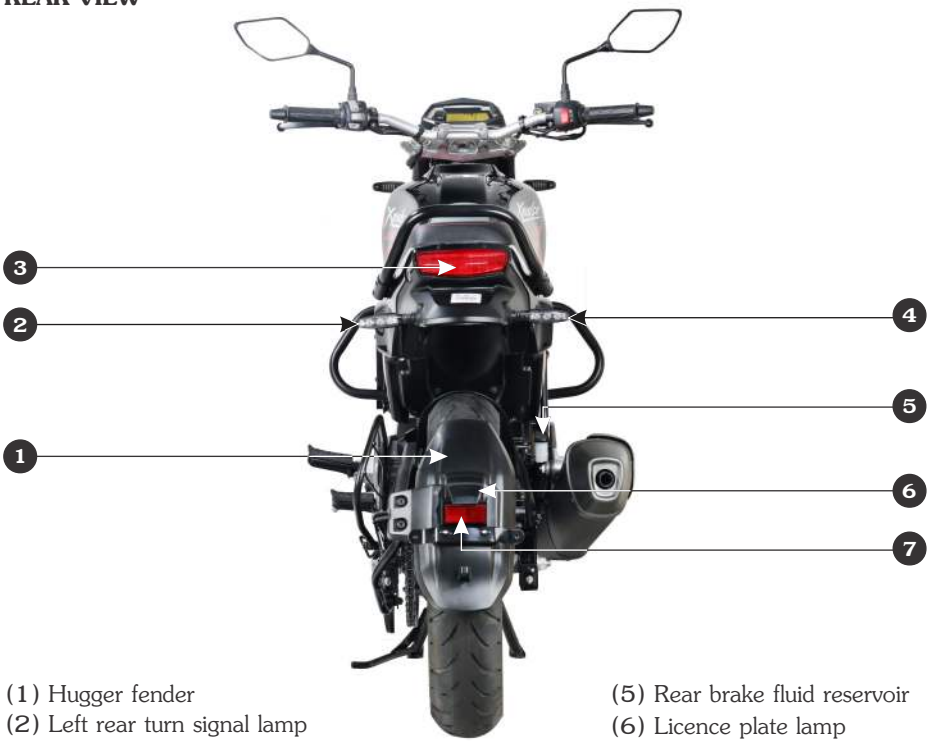
FRONT VIEW



(1) Front fender
(2) Front right turn signal lamp
(3) Right position lamp
(4) Headlamp (Low Beam)
(5) Wind screen
(6) Left position lamp
(7) Front left turn signal lamp
(8) Headlamp (High Beam)
(9) Engine guard

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

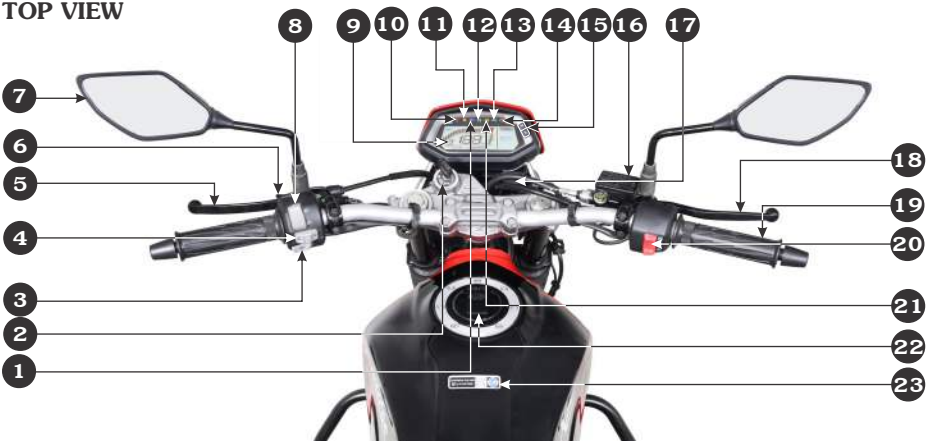
REAR VIEW



(1) Hugger fender
(2) Left rear turn signal lamp
(3) Tail/stop lamp
(4) Right rear turn signal lamp
(5) Rear brake fluid reservoir
(6) Licence plate lamp
(7) Rear reflex reflector

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

TOP VIEW



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

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

LEFT SIDE VIEW



(1) Side reflex reflector
(2) Oil cooler
(3) Bash plate
(4) Starter motor
(5) Gearshift pedal
(6) Rider footrest
(7) Main stand
(8) Side stand
(9) Pillion footrest
(10) Saree guard
(11) Rear hugger fender
(12) Rear grip
(13) Seat lock
(14) Left side cover
(15) Battery compartment (inside)
(16) Side stand switch

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

RIGHT SIDE VIEW



(1) Rear disc
(2) Rear brake master cylinder
(3) Brake pedal
(4) Kick starter pedal
(5) Oil level dipstick
(6) Front brake caliper assembly
(7) Front disc
(8) Throttle body
(9) Seat
(10) First aid kit compartment (inside)
(11) Fuse box (inside)
(12) Tool kit compartment (inside)
(13) Air cleaner assembly (inside)
(14) Rear brake caliper assembly
(15) Exhaust muffler

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

VEHICLE SPECIFICATION

ITEM		SPECIFICATIONS
Dimensions		
Overall length		2097 mm
Overall width		807 mm
Overall height		1082 mm
Wheelbase		1400 mm
Saddle height		790 mm
Ground clearance		177 mm
Weight		
Kerb weight		155 kg
Payload		130 kg
Capacities		
Engine oil		1400 ml at disassembly and 1200 ml at draining
Fuel tank capacity		13.0 litres
Hydraulic brake fluid		DoT-4/DoT-3
Engine		
Maximum power		14.1 kW @ 8500 r/min
Maximum torque		17.35 N-m @ 6500 r/min
Bore and stroke		66.5x57.5 mm
Compression ratio		10:01
Displacement		199.6 cc
Spark plug		Champion REK6YC
Spark plug gap		0.8-0.9 mm
Valve clearance	Intake (cold)	0.08 mm
	Exhaust (cold)	0.12 mm
Idle speed		1600±100 r/min
Chassis and suspension		
Front suspension		Telescopic front forks (dia 37 mm) with anti friction bush
Rear suspension		Rectangular swingarm with mono shock
Caster angle		25.7°
Trail length		80.5 mm
Tyre size	Front	100/80-17 52 P (Tubeless tyre)
	Rear	130/70-R17 62 P (Radial tubeless tyre)

VEHICLE SPECIFICATION

ITEM		SPECIFICATIONS
Tyre pressure	Front (Rider only/Rider & Pillion)	1.75 kgf/cm² (25 psi)/1.75 kgf/cm² (25 psi)
	Rear (Rider only/Rider & Pillion)	1.96 kgf/cm² (28 psi)/2.1kgf/cm² (30 psi)
Brakes	Front (Disc type)	Dia. 276 mm
	Rear (Disc type)	Dia. 220 mm
Transmission		
Primary reduction		3.05 (67/22)
Final reduction		3.23 (42/13)
Transmission		5 Speed constant mesh
Gear ratio, 1st		2.916 (35/12)
2nd		1.875 (30/16)
3rd		1.350 (27/20)
4th		1.043 (24/23)
5th		0.880 (22/25)
Electricals		
Battery		*MF Battery 12V-6 Ah/ETZ-7
Alternator		135 W @ 5000 r/min
Headlamp		12V-6.5W/10.5W (LED)
Position lamp		12V-0.9W (LED)
Tail/Stop lamp		12V-0.2/2.1W (LED)
Turn signal lamp		9 V to 16 Vx4 nos. (LED)
Meter illumination		Module illuminated LCD
Neutral indicator		LED
Turn signal indicator (RH/LH)		LED
Hi beam indicator		LED
ABS indicator		LED
Service reminder indicator		LCD display
Licence plate lamp		LED
Programmed-Fi malfunction indicator lamp (MIL)		LED
Low fuel indicator		LED
Side stand indicator		LED
Fuse	Starter magnetic switch	20A (Main fuse) and 20A (Spare fuse)
	Main fuse	10A, 10A, 10A & 10A
	Spare fuse	10A, 10A

***MF stands for Maintenance Free**

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 : _____

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.

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.

Do's:

- Always conduct simple pre-ride inspection **(page 36).**
- 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 80).**
- 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 30).**
- 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 41)** 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.
- Do not apply the hard braking in wet or rainy conditions.
- Do not switch off the integrated start-kill switch (⊠) while riding the vehicle **(page 30).**
- Do not move the side stand down while riding, as engine will stop while vehicle is in gear **(page 32)** (Wheel locking leading to accident, part damage, etc.).
- Navigation system assists you to reach your destination, don't be distracted while driving. Drive safely and always obey traffic rules.

TIPS FOR HEALTHY ENVIRONMENT

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

- **Healthy engine:** The engine is the lifeline of every vehicle. To keep it healthy, it should be tuned regularly, which will also help reduce pollution and improve vehicle performance & 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 Xotic+ SAE 10W 30 SL MA2 fully synthetic PAO based oil recommended by Hero MotoCorp and make sure you change it every 12000 km. (with top up every 6000 kilometres) to keep the engine fit and environment healthy.

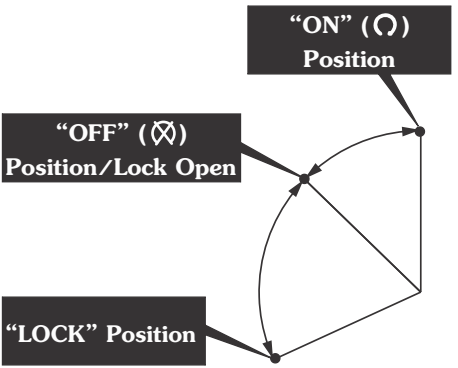
- **Noise pollution:** Noise beyond a certain decibel is pollution. Whether it is from horns or defective mufflers, excessive noise will cause headaches and discomfort.

- **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



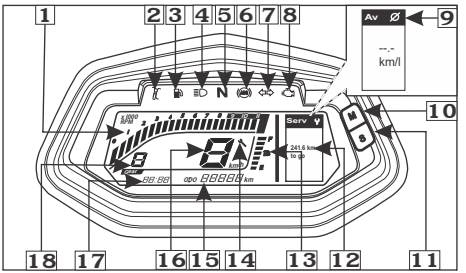


1. Ignition switch
2. Ignition key
3. "OFF" (⊗) position
4. Steering lock position
5. "ON" (⊙) position

Key position	Function	Key removal
"ON" (⊙)	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. The engine can be started. Turn signal lamp, horn, tail/stop lamp, fuel gauge, pass lamp, position lamps & neutral indicator will be functional. Programmed FI malfunction indicator lamp (MIL) illuminates continuously.	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	Side stand indicator	Light glows when the vehicle is parked on the side stand.
3	Low fuel indicator	Light glows when the fuel quantity is low **(page 21).**
4	High beam indicator	Light glows when headlamp is in high beam.
5	Neutral indicator	Light glows when vehicle is in neutral.
6	Anti-lock braking system (ABS) indicator	This indicator normally comes on for approx 1.8 seconds when the ignition switch is turned "ON" (⏼) & 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 30).**
7	Turn signal indicators	Flashes when turn signal switch is operated.

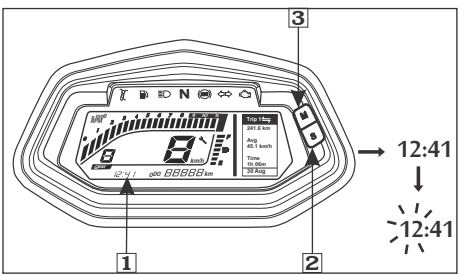
Sl. No.	Description	Function
8	Programmed-FI malfunction indicator lamp (MIL)	When the ignition switch is turned "ON" the programmed FI malfunction indicator lamp (MIL) glows continuously and then should go "OFF" once the engine is started. It indicates that programmed FI system is OK. If it glows continuously 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.
9	Real time mileage indicator (RTMI)	It indicates the current mileage of the vehicle (in km/ litre). The indication will change after every 3 seconds depending upon the driving condition **(page 20)**.
10	Mode button	Switches display between odometer, tripmeter-1 & 2, clock, Eco mode, Bluetooth connectivity & RTMI mode.
11	Set button	To adjust clock, date & tripmeter. When long pressed resets tripmeter to zero.
12	Next service distance	Indicates how many kilometers are left before the next service is due. It appears for few seconds when the ignition switch is turned "ON" (⏻) **(page 20).**
13	Fuel gauge	Indicates approximate fuel available in the form of digital segments. The digital segments will swing to maximum scale on the meter console once the ignition switch is turned "ON" (⏻) **(page 20).**
14	Service reminder indicator	Displays when the next service is due **(page 20).**
15	Odometer	Shows accumulated distance travelled **(page 18).**
16	Speedometer	Indicates riding speed**.**
17	Digital clock	Indicates hours & minutes **(page 17)**.
18	Gear indicator	Displays the selected gear while riding **(page 22).**

LCD PANEL

(a) Digital clock

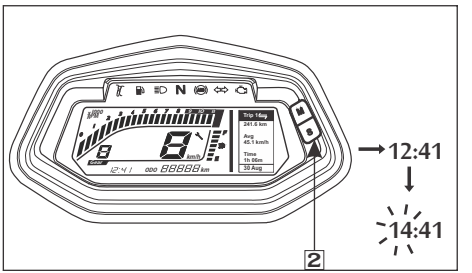
Digital clock (1) shows hour and minute. To adjust the time, proceed as follows :

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



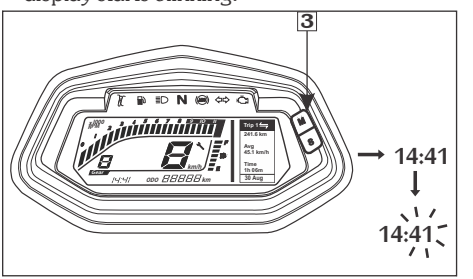
(1) Digital clock **(2) Set button**
(3) Mode button

- To set the hour, press set button (2) 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.



(2) Set button

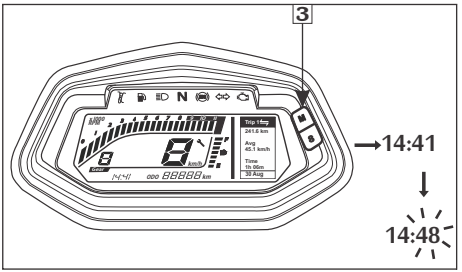
- Press the mode button (3). The minutes display starts blinking.



(3) Mode button

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

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



(3) Mode button

- To end the adjustment press the mode button (3) until clock display stops blinking.

NOTE

The clock will reset to "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, "Trip-1" and "Trip-2".

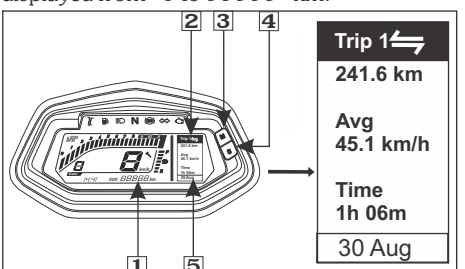
Push the mode button (3) to select "Trip-1" and "Trip-2". "Trip-1" and "Trip-2" can be displayed upto "999.9" km.

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

Trip meter displays following parameters:

- **Distance**: distance covered in a trip.
- **Avg speed**: average speed at which vehicle completes a trip
- **Trip time**: time taken to complete a trip.
- **Date**: it shows the current date.

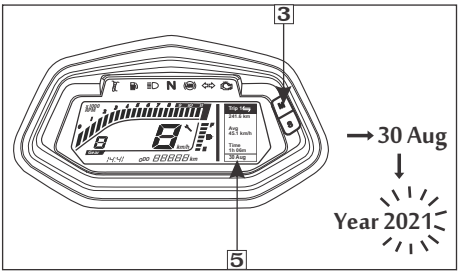
When tripmeter is selected, long press (more than 2 seconds) the set button to reset tripmeter to zero. The odometer can be displayed from "0 to 99999" km.



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

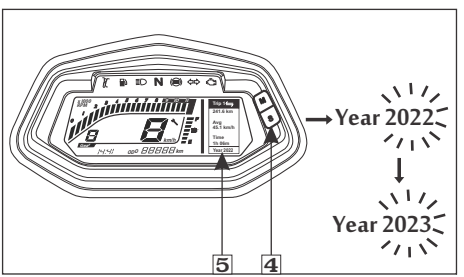
To update the date proceed as follows :

- Turn the ignition switch "ON" (O).
- Press and hold set button (4) and mode button (3) simultaneously for more than 2 seconds. The clock display will start blinking **(page 17)**.
- Keep pressing and releasing mode button (3) until date display (5) starts blinking.



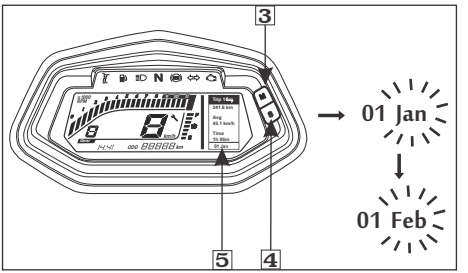
(3) Mode button **(5) Date display**

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



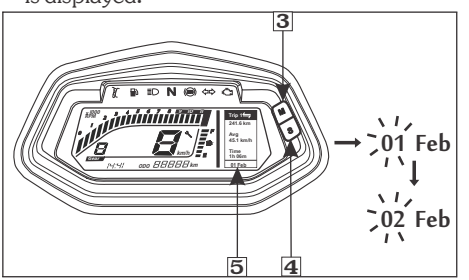
(4) Set button **(5) Date display**

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



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

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



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

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

(c) Fuel gauge

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

The digital segments (2) will swing to maximum scale on the meter console once the ignition switch is turned "ON" (). If all the segments are displayed it means fuel quantity in the fuel tank is 13.0 litres.

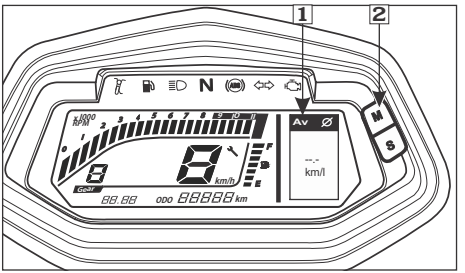


(1) Fuel gauge **(2) Segments**

(d) Real time mileage indicator (RTMI)

The real time mileage indicator (RTMI) (1) shows the current mileage of the vehicle in km/litre and is refreshed after every 3 seconds. Press the mode button (2) until RTMI is displayed.

When the ignition switch is turned "ON" () position, the real time mileage indicator will temporarily show the digit "--.-" km/litre The display range is from (0 to 120 km/litre).



(1) Real time mileage indicator (RTMI)
(2) Mode button

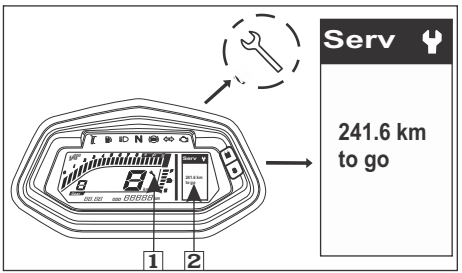
The fuel consumption shall be displayed when the speed of the vehicle is 5±2 km/hr. If the speed is less then 5±2 km/hr **"--.-"** km/litre will be displayed.

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

(e) Service reminder indicator

The service reminder indicator (1) is to indicate 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.

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



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

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

NOTE

After getting the vehicle serviced, make sure that the Service Reminder Indicator has been reset.

LOW FUEL INDICATOR

Low fuel indicator (1) is a warning indicator for the user to 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, but may also cause serious damage to the fuel pump. Please ensure fuel is refilled as soon as the low fuel indicator starts glowing.

NOTE

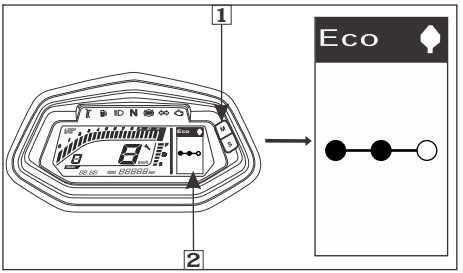
To check the fuel level indication, the vehicle should be on levelled surface and in stationary condition.

FEATURES

(a) ECO mode

ECO mode assists the rider to achieve optimum fuel efficiency.

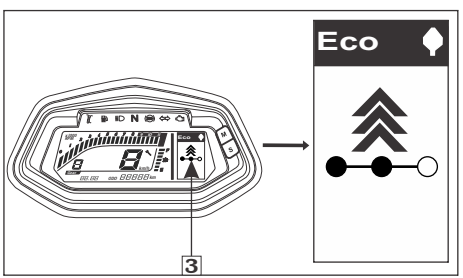
Press the mode button (1) until ECO mode (2) is displayed.



(1) Mode button **(2) Eco mode**

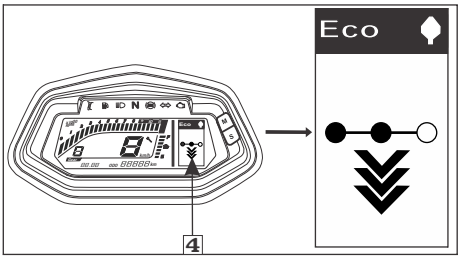
It displays following riding instructions :

- Shift up indicator (3): it recommends for shifting to high gear.



(3) Shift up indicator

- Shift down indicator (4): it recommends for shifting to low gear.



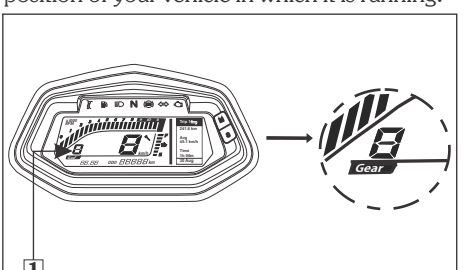
(4) Shift down indicator

NOTE

ECO mode assists the rider to achieve optimum fuel efficiency based on your vehicle's engine performance.
It is recommended to ride your vehicle as per road and traffic conditions.

(b) Gear indicator

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



(1) Gear indicator

NOTE

- ***Gear indicator displays "0" when your vehicle is in neutral.***
- ***Gear indicator displays "–" when it delays in displaying the gear position or when you change gears in vehicle static condition (vehicle is in main stand and ignition switch is in "ON" position).***

(c) Hero ride guide/Navigation Application:

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

NOTE

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

Bluetooth:

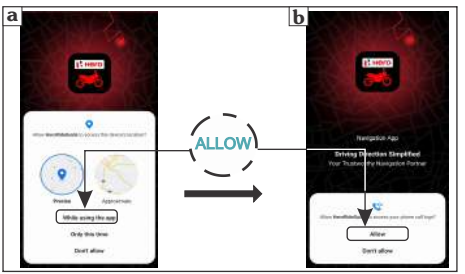
Your vehicle is equipped with bluetooth connectivity feature by which you can pair your smartphone with the meter console of your **XPULSE 200T 4V** vehicle through Hero navigation application.

To connect your device proceed as follows:

- Turn the ignition switch "ON".
- Open hero navigation application on your smartphone.
- For first time pairing, allow the application to access:

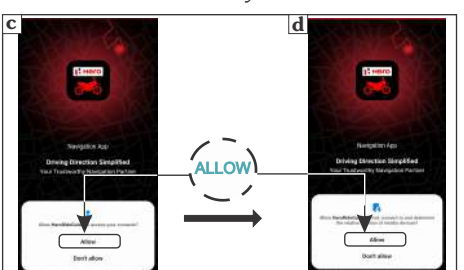
a. Device's location if GPS is not enabled in your device

b. Phone call logs on your device



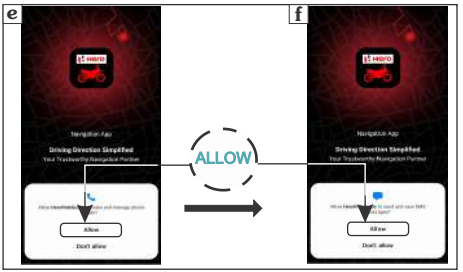
c. Contacts

d. Bluetooth connectivity



e. Make & manage phone calls

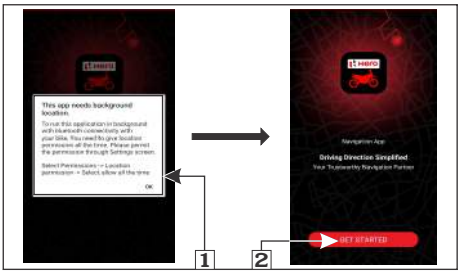
f. Send and view SMS messages



g. Photo & Media

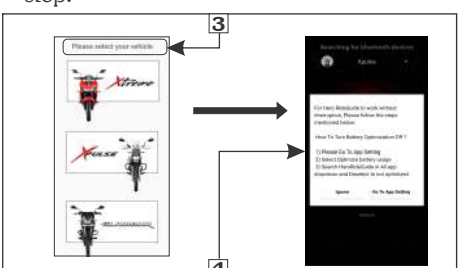


- Now application asks the user to run the application on background (1). It can be done by following the steps which are mentioned in the application and click OK.
- Now select "GET STARTED" (2) to proceed.



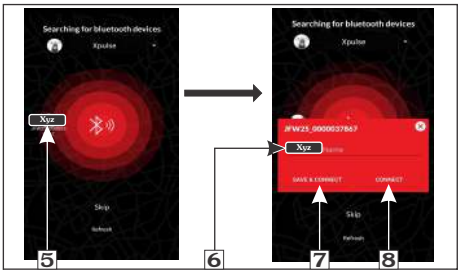
(1) Run application in background
(2) Get started

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



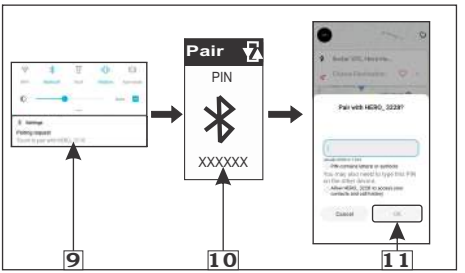
(3) Select your vehicle
(4) Battery optimization

- The application searches for a while and displays all compatible nearby devices. Select the device with your name (5).
- Update your name (6) (if required) and select either save and connect (7) or connect (8) to proceed.



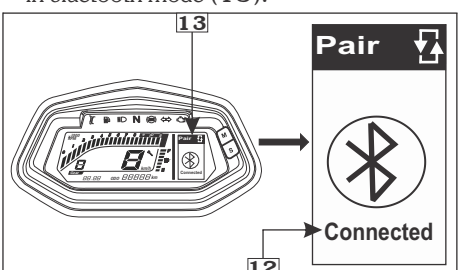
(5) Select your device
(6) Update your name
(7) Save and connect **(8) Connect**

- Now application will send paring request notification (9). Click on the notification
- Now meter console will display paring pin (10).
- Enter the pin in navigation screen and select "OK" (11).



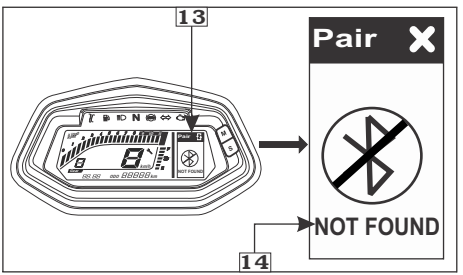
(9) Pairing request notification
(10) Pin **(11) "OK"**

- On pairing, meter console displays "Connected" (12) below bluetooth symbol in bluetooth mode (13).



(12) Bluetooth connected
(13) Bluetooth mode

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

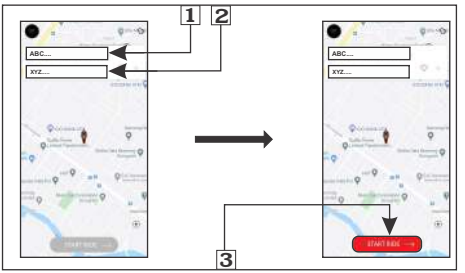


(13) Bluetooth mode (14) Not found

Navigation:

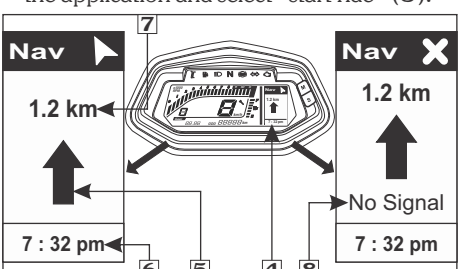
To use navigation feature proceed as follows:

- Connect your vehicle with your hero ride guide/navigation application via bluetooth **(page 23).**
- After successful connection, the application and meter console display will automatically switch to navigation mode (4). It will also update your current location (1) through GPS system.



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

- Now choose your destination (2) through the application and select “start ride” (3).



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

- After processing for a while, meter console will display the direction (5), distance for next move (7) and estimated time of arrival (ETA) (6). Estimated time of arrival will be

displayed in ″am″or ″pm″. Hero navigation app and meter console of your vehicle will display step by step navigation guidance/ direction through navigation signs **(page 82).**

NOTE

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

WARNING

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

Autopairing:

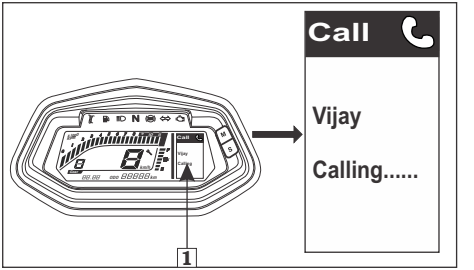
Your vehicle is equipped with autopairing feature by which if you turn ″OFF″ vehicle's ignition switch after successful pairing with hero navigation application, it will reconnect automatically once ignition switch is turned ″ON″.

NOTE

Always keep your smartphone close to your vehicle during the course of pairing, autopairing and navigation.

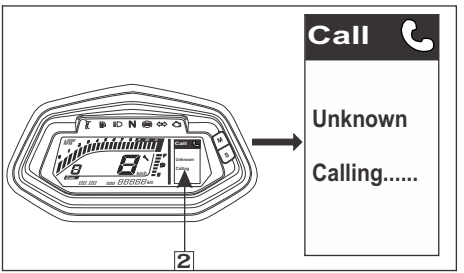
Incoming call alert:

If your smartphone is paired with the meter console of your vehicle via bluetooth **(page 23)**, then you will get all the incoming calls alerts on the meter console. It will display the name of the caller if it is stored in your compatible smartphone. For example: If caller's number is stored in your compatible smartphone by name of Vijay, then your meter console will display Vijay calling (1).



(1) Incoming call alert by name

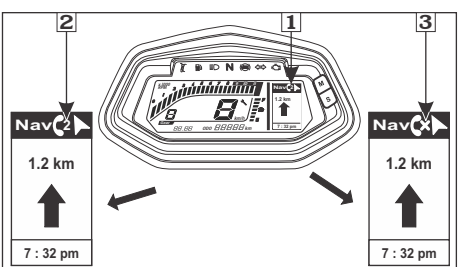
If the number is not saved in your device by name or your device is an iOS, then it will display "unknown calling" (2).



(2) Incoming call alert by unknown number

Missed call alert:

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

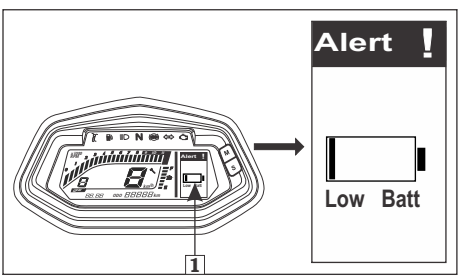


(1) Missed call alert
(2) Number of missed call (1 to 9)
(3) Number of missed call (more than 9)

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

Low battery alert:

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



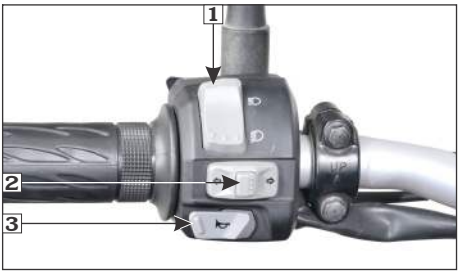
(1) Low battery alert

(d) 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



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

HANDLEBAR SWITCHES CONTROL

Left handlebar controls

1. Headlamp dimmer switch

The headlamp operates only when the engine is running.

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).

4. Passing switch

Gives an indication for passing ahead.

Press passing lamp switch (4) to operate the passing lamp.



(4) Passing switch (5) Clutch switch

5. Clutch switch

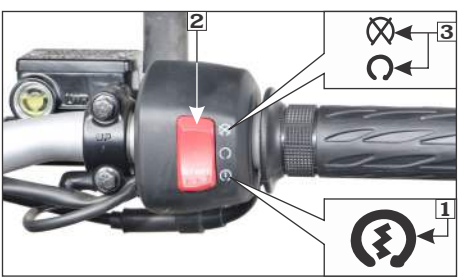
There is a clutch switch (5) provided for the safety of the rider. The vehicle cannot be started by electric starter switch until the clutch lever is operated when the vehicle is engaged in gear.

Right handlebar controls

1. 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.



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

! CAUTION

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

(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 comes "ON" for 1.8 seconds when the ignition switch is turned "ON" ( ) & 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.



(1) ABS indicator

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.

SIDE STAND INDICATOR/SWITCH

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



(1) Side stand indicator

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



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

- Check the side stand for proper function and the spring (3) for damage or loss of tension and the side stand assembly for free movement.
- Check whether the side stand indicator (1) glows when the side stand is down.
- 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:

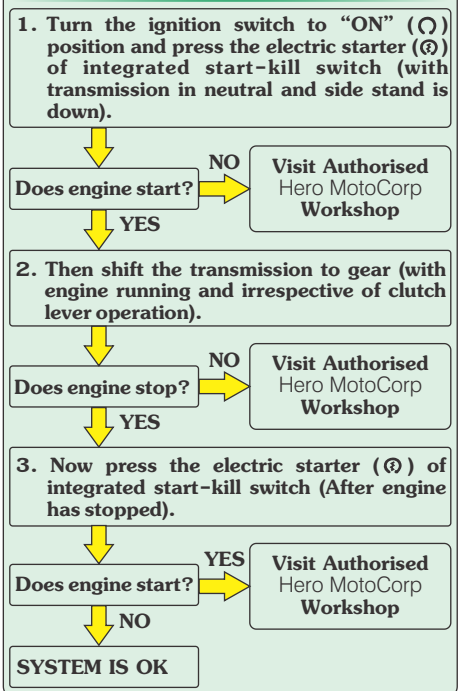
- It prevents starting the engine when transmission is in gear (irrespective of clutch lever operation) and side stand is down.
- It stops the running engine when transmission is in gear (irrespective of clutch lever operation) and side stand is moved down.

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

(a) Fuel tank

Fuel tank capacity is 13 litres (Be sure to fill the fuel tank when low fuel indicator glows).

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

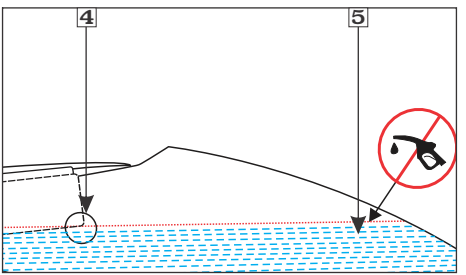


(1) Key hole cover **(2) Ignition key**

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



(3) Fuel tank cap



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

- 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.

(b) Petrol containing alcohol

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

D17 sticker on fuel tank indicates that the vehicle parts are compliant up to the blend of "20% ethanol with petrol".



(1) E20 sticker **(2) Fuel tank**

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

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

! 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 starts glowing.

⚠ WARNING

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

SEAT LOCK

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

Operation : Insert the ignition key (1) and turn is clockwise to unlock the seat. To install, engage the hook on the underside of the seat with the frame and slide the seat to the front until the lock clicks.



(1) Ignition key

HELMET HOLDER

The helmet holder is located below the seat. Remove the seat. Hang the helmet on the helmet holder hook (1) using wire helmet set (2) supplied with the vehicle. Install the seat (3) and lock it securely.



(1) Helmet holder hook (2) Wire helmet set (3) Seat

⚠ WARNING

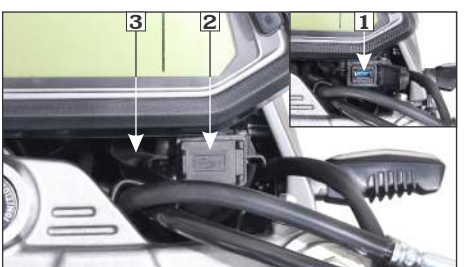
- ***Riding with a helmet attached to the holder can interfere with the rear wheel and could cause a crash in which you can be seriously hurt or killed.***
- ***Use the helmet holder only while parked. Do not ride with a helmet secured by the holder.***

USB CHARGER

A USB charger (1) with a cap (2) mounted on the meter console stay (3) 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) Meter console stay

! 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 vehicle, when the vehicle is parked.***
- ***Charge your device when the engine is operational/while riding.***
- ***USB charger will not be covered under warranty in case of USB charger cap damage.***

NOTE

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

PRE- RIDE INSPECTION

You should conduct pre ride inspection before riding the vehicle to enhance riding comfort and safety.

Clean your vehicle regularly. It protects the surface finish. Avoid cleaning with products that are not specifically designed for vehicle surfaces.

Inspect your vehicle every day before you start the engine. The items listed here will only take a few minutes, and in the long run they can save time, expense, and possibly your life.

Please follow the tips as given below:

- **Engine oil level-**Check and top up engine oil if required **(page 49).** Check for leaks.
- **Programmed FI malfunction indicator lamp (MIL)-**When the ignition switch is turned "ON" the programmed FI malfunction indicator lamp (MIL) glows continuously and then should go "OFF" once the engine is started.
- **Fuel level-**Ensure sufficient fuel is available in your fuel tank for journey. Fuel level segment should be above one segment blinking **(page 20)**. Check for leaks.
- **Low fuel indicator-**Vehicle should not be operated with low fuel indicator glowing continuously **(page 21)**.
- **Front brake-**Check for correct brake fluid level in master cylinder/reservoir **(page 61).**

- **ABS indicator-**Check ABS indicator for proper functioning of ABS **(page 30).**
- **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 57).** Lubricate if necessary.
- **Throttle-**Check for smooth opening and closing in all steering positions **(page 56)**.
- **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 30)**.
- **Fitting & Fasteners-**Check & tighten if necessary.
- **Steering-**Check for smooth action and for easy maneuverability.
- **Side stand-**Check for proper functionality **(page 31).**

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 32).***

Preparation

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

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



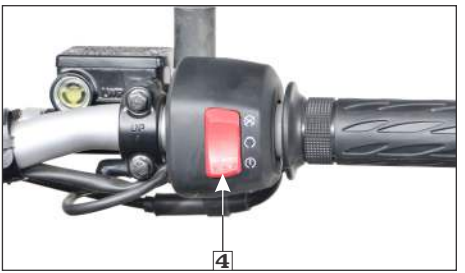
(1) Ignition switch
(2) Malfunction indicator lamp (MIL)

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



(3) Neutral indicator

- Make sure that the integrated start-kill switch (4) is at "ON" (⏀) position.



(4) Integrated start-kill switch

- **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.

! CAUTION

- ***Do not open excessive throttle when engine is idling and the vehicle is parked, as it may lead to overheating and damage to engine and exhaust system components.***
- ***Running the engine at idle for more than 3 minutes may also result in engine overheating.***

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).***
- ***It is not recommended to start engine with throttle.***
- ***Engine will not start if throttle is kept fully open as Electronic Control Unit (ECU) cuts-off the fuel supply for internal components safety.***

Flooded engine

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

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

Ignition cut off

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

(Bank angle sensor cuts off the ignition).

NOTE

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

Running in

Help assure your vehicle's future reliability and performance by paying extra attention to how you ride during the first 500 km.

During this period, avoid full-throttle 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.***

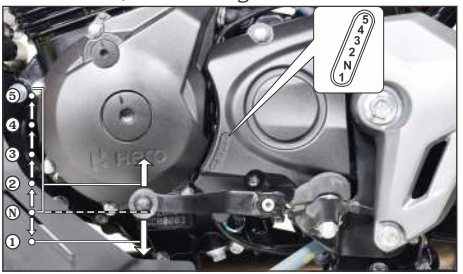
⚠ WARNING

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

RIDING

- Excessive revving the engine during cold condition can reduce engine life.
- 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.

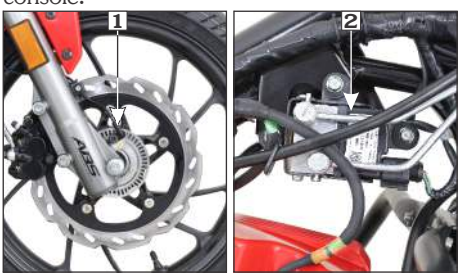
ABS is designed to meet two essential requirements during every brake application:

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

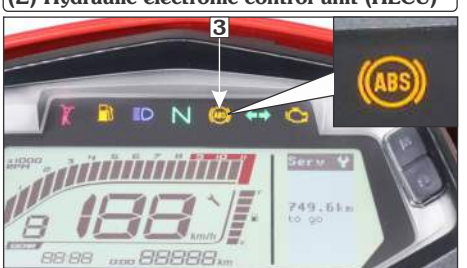
The ABS system is self-regulating and always active once vehicle speed exceeds 5 km/h.

- 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.

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



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



(3) ABS indicator

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 68).**
- 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

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



(1) Tool 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.
- Wire helmet set–1 No.

FIRST AID KIT

The first aid kit (1) is located under the seat. For some emergency first aid can be performed by medicine contained in the kit. Kit contains the following items :

- Anticeptic 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.



(1) First aid kit

CLEANING AND WASHING OF VEHICLE

Follow the below mentioned steps for washing the vehicle.

- Wet the vehicle with light water spray. Avoid directing high pressure water spray to meter console, muffler outlets, electrical parts and oil cooler.
- Clean the headlamp lens and other plastic parts using a cloth or sponge dampened with a solution of mild detergent and 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 and oil cooler cover during wash to ensure quality wash.

WARNING

Avoid direct high pressure water spray on any electrical, electronic components and oil cooler.

MAINTENANCE

The 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 36)** at each scheduled maintenance period.

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

The following maintenance schedule specifies all maintenance required to keep your vehicle in peak operating condition. Maintenance work should be performed in accordance with standards and specifications of Hero MotoCorp by properly trained and equipped technicians. Your Authorised Hero MotoCorp workshop meets all of these requirements.

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

To be serviced by your Authorised Hero MotoCorp workshop unless the owner has the relevant tools, technical information and is technically qualified.

In the interest of safety, we recommend that these jobs are carried out only by your Authorised Hero MotoCorp workshop.

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

Note-2 : Service more frequently if the vehicle is ridden in unusually wet or dusty areas.

Note-3 : Replace engine oil at 1st service and in every 12000 km. Top up if the oil level is at or near the lower level mark.

Note-4 : Must clean the engine oil strainer screen & centrifugal filter at 1st service and in every 12000 km.

Note-5 : Clean the magnetic drain plug bolt tip in every 12000 km or during oil change and replace if damaged.

Note-6 : Visit Authorised Hero MotoCorp workshop for inspection, cleaning, lubrication and adjustment of drive chain at every 1000 km.

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

Note-8 : Inspect & maintain specified torque.

Note-9 : Inspect the wheel bearings free play, replace if necessary.

Note-10 : Replace front fork oil once in a every 2 years or 30000 km, whichever is earlier.

Note-11 : Inspect rear suspension mounting bushes play, replace rear shock absorber if necessary.

Note-12 : Check CO emission at idle.

Note-13 : Inspect the canister hoses for deterioration, damage or loose connections and canister for cracks or other damages.

Note

- Service more frequently if the vehicle is ridden in wet or dusty areas.
- Service more frequently if the vehicle is ridden in rain or at full throttle.
- Always wipe the water from the vehicle after washing. Use clean soft cloth or pressurized air for completely drying the water.
- Always replace gaskets, O-rings, circlips and cotter pins with new one once removed.

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				DURING PAID SERVICE PERIOD ONCE IN EVERY 6000 KM	
		SERVICE	1st	2nd	3rd	4th		
		DAYS	1st 60	Next 180	Next 180	Next 180		
		KM Note-1	500-750	6000-6500	12000-12500	18000-18500	6000	12000
	Fuel Line		I	I	I	I	I	I
	Throttle Operation		I, A	I, A	I, A	I, A	I, A	I, A
	Air Cleaner Element	Note-2	C	C	R	C	C	R
	Spark Plug		I, C, A	I, C, A	R	I, C, A	I, C, A	R
	Valve Clearance		I, A	I, A	I, A	I, A	I, A	I, A
	Engine Oil	Note-3	R	I, T	R	I, T	I, T	R
	Engine Oil Strainer Screen	Note-4	C		C			C
	Engine Oil Centrifugal Filter	Note-4	C		C			C
	Magnetic Drain Plug Bolt Tip	Note-5	C		C			C
	Engine Oil Cooler & Hoses		I	I	I	I	I	I
	Electric Starter		I	I	I	I	I	I
	Oil Circulation		I	I	I	I	I	I
	Drive Chain	Note-6	I, C, L, A at every 1000 km				I, C, L, A at every 1000 km	
	Drive Chain Slider		I	I	I	I	I	I

	ITEMS	WHICHEVER COMES FIRST	DURING FREE SERVICE PERIOD				DURING PAID SERVICE PERIOD ONCE IN EVERY 6000 KM	
		SERVICE	1st	2nd	3rd	4th		
		DAYS	1st 60	Next 180	Next 180	Next 180		
		KM Note-1	500-750	6000-6500	12000-12500	18000-18500	6000	12000
	Battery Voltage		I	I	I	I	I	I
	Brake Pads Wear		I	I	I	I	I	I
	Brake Fluid	Note-7	I	I	I	I	I	I
	Brake System & Brake Pedal Pivot		I, C, L	I, C, L	I, C, L	I, C, L	I, C, L	I, 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-8	I	I	I	I	I	I
	Wheels Bearings	Note-9	I	I	I	I	I	I
	Wheel/Tyres		I	I	I	I	I	I
	Steering Head Bearing		I	I, A	I, L, A	I, A	I, A	I, L, A
	Front Suspension/ Oil Leakage	Note-10	I	I	I	I	I	I
	Rear Suspension	Note-11	I	I	I	I	I	I
	Muffler (Catalytic Converter)	Note-12		I, E	I, E	I, E	I, E	I, E
	Evaporative Emission Control System	Note-13	I	I	I	I	I	I
	Greasing application between drive shaft & driven sprocket splines			C, L	C, L	C, L	C, L	C, L

SPARK PLUG INSPECTION

Recommended plugs:

Champion REK6YC

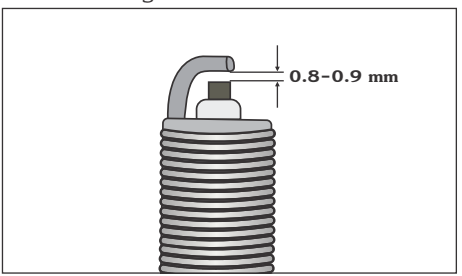
For most riding conditions this spark plug heat range number is satisfactory. However, if the vehicle is going to be operated for extended periods at high speeds or near maximum power in hot climates, the spark plug should be changed to a cold heat range number, consult Authorised Hero MotoCorp workshop 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***
- ***Never use a spark plug with improper heat range.***
- ***Install a dummy spark plug in the cylinder head and test for spark.***
- ***Always use resistor type spark plug.***

ENGINE OIL

Use hero genuine engine oil or recommended grade oil.

BRAND: Hero Xotic+

GRADE: SAE 10W 30 SL MA2 fully synthetic PAO based oil.

Manufactured by:

Indian Oil Corporation Limited.

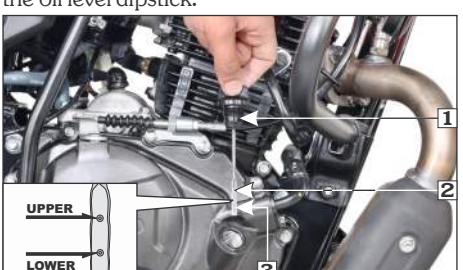
OIL CAPACITY : 1400 ml (at disassembly)

: 1200 ml (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 6000 km whichever is earlier.
- Park the vehicle on its main stand.
- Start the engine & let it idle for 3-5 minutes.
- Slightly loosen the engine oil check bolt (4) and check the engine oil entry into the cylinder head cover.

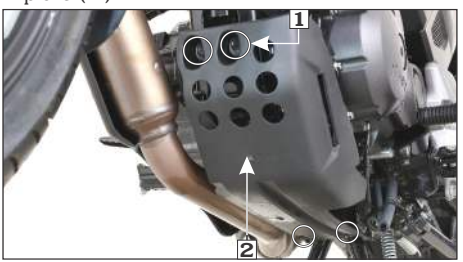


(4) Engine oil check bolt

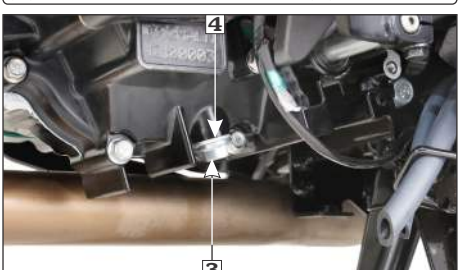
- After checking the oil circulation, tighten the engine oil check bolt.
- Stop the engine and wait for 2-3 minutes.
- Remove the oil level dipstick, wipe it clean and insert without screwing it in.
- Remove the oil level dipstick and check the oil level.
- If required, add the specified oil up to the 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.
- Remove the bash plate bolts (1) and bash plate (2).



(1) Bash plate bolts (2) Bash plate



(3) Drain bolt (4) Sealing washer

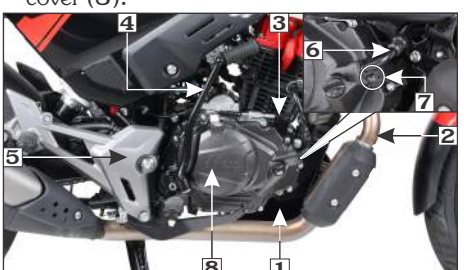
- To drain the oil, remove the oil level dipstick, drain bolt (3) and sealing washer (4).
- After the oil has completely drained, reinstall the drain bolt (3) with a new sealing washer (4).
- Fill the crankcase through the oil filler hole with 1200 ml (approximately) of recommended grade oil during oil change (when right crankcase cover is not removed).
- Reinstall the oil level dipstick with a new O-ring.
- Install the bash plate.
- 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.***

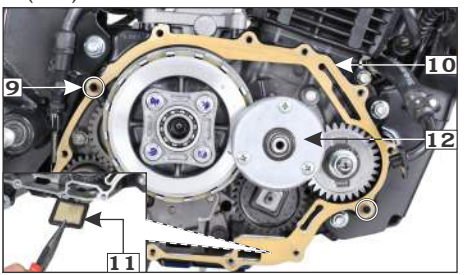
OIL FILTER SCREEN & CENTRIFUGAL FILTER CLEANING

- Drain the engine oil thoroughly **(page 50)**.
- Remove the bash plate (1) **(page 50)** and exhaust muffler (2).
- Disconnect the clutch cable (3) from crankcase cover, remove the kick starter pedal (4).
- Position aside the pillion step holder bracket (5).
- Remove the oil cooler hose with O-ring (6) by removing its bolt (7) and right crankcase cover (8).



(1) Bash plate
(2) Exhaust muffler
(3) Clutch cable
(4) Kick starter pedal
(5) Pillion step holder bracket
(6) Oil cooler hose with O-ring
(7) Oil cooler hose bolt
(8) Right crankcase cover

- Remove the dowel pins (9) and gasket (10).



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

- Remove the oil filter screen (11) and wash it in clean non flammable or high flash point solvent (kerosene).
- Reinstall the oil filter screen with the tapered end facing in.



(13) Centrifugal filter

- Remove centrifugal filter cover (12) with gasket and clean the centrifugal filter (13) with non flammable or high flash point solvent (kerosene).
- Reinstall the centrifugal filter cover with new gasket.
- Reinstall the new dowel pins & gasket, right crankcase cover and connect the clutch cable.
- Install the oil cooler hose with new O–ring by tightening its bolt.
- Install the pillion step holder bracket and kick starter pedal.
- Install the exhaust muffler and bash plate.
- Fill the crankcase with clean engine oil as per specification **(page 49).**

NOTE

Ensure to replace gasket & dowel pin with new one once removed.

! CAUTION

- ***Must clean the strainer screen & centrifugal filter at 1st service and in every 12000 km.***
- ***Ensure that adequate care should be taken while removing the oil cooler hose to avoid any damage or leakage.***

ENGINE OIL COOLER



(1) Engine oil cooler

! CAUTION

- ***No hard objects to be used for cleaning the engine oil cooler (1), otherwise the fins will get damaged.***
- ***No high pressure washing of the oil cooler as it may damaged the fins, any physical contact with fins is to be avoided.***
- ***Avoid keeping any cloth or flammable object between hot parts (muffler, oil cooler, engine).***

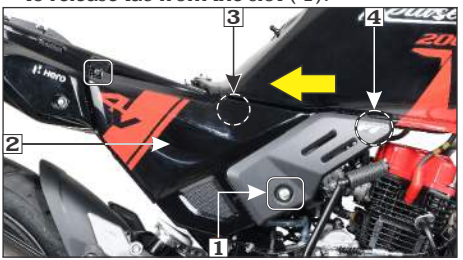
AIR CLEANER

Air cleaner element inspection

Refer to the safety precautions **(page 44)**.
The air cleaner element is of dry paper pleated type, it should be serviced at specified intervals **(page 45)**. Service more frequently when riding in unusually wet or dusty areas.

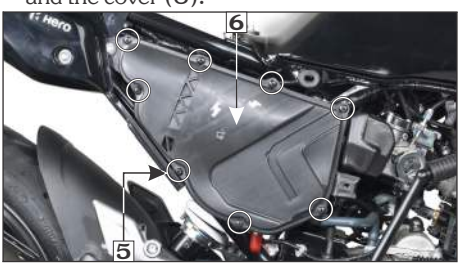
- Remove the seat **(page 34).**

- Remove the right side cover screws (1), side cover (2) by releasing the lug from the grommet (3) and slide as per the direction to release tab from the slot (4).



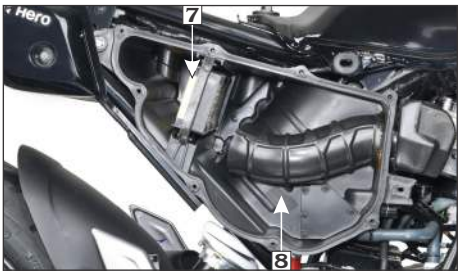
(1) Right side cover screws (2) Side cover
(3) Lug/Grommet (4) Tab/Slot

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



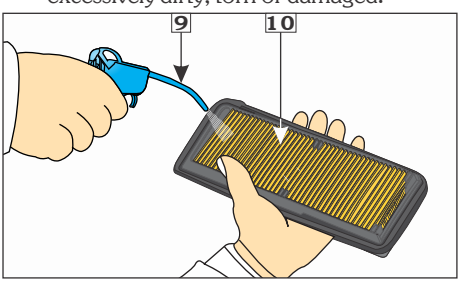
(5) Air cleaner cover screws
(6) Air cleaner cover

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



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

- Air cleaner element cleaning
  - Clean the element by tapping it gently to loosen dust.
  - Blow away the remaining dust by forcing compressed moisture-free air using an air nozzle (9) from the housing side (10) of the air cleaner.
  - Replace the air cleaner element if it is excessively dirty, torn or damaged.



(9) Air nozzle (10) Housing side

CAUTION

- ***Never wash the air cleaner element. Only blow air in the air cleaner element for cleaning dust, as explained. Replace air cleaner element once in every 12000 km.***
- ***Replace it earlier if it becomes very dirty, damaged on surface or on the sealing area.***

- Install the air cleaner element.
- Install the air cleaner element cover.
- Install the right side cover.
- Install the seat **(page 34)**.

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.

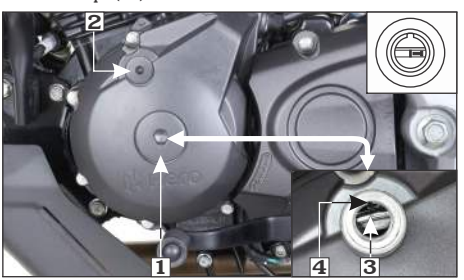
VALVE CLEARANCE ADJUSTMENT

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 45).**

NOTE

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

- Remove the fuel tank.
- Remove the crankshaft hole cap (1), timing hole cap (2).



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

- Remove the cylinder head cover.
- 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: 0.08 mm
Exhaust: 0.12 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

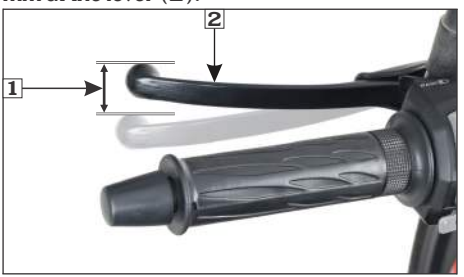
- ***Before inserting the feeler gauge, smear a bit of engine oil on the feeler gauge to avoid damage to the feeler gauge.***
- ***Make sure the valve clearance adjustment of both the inlet valves should be same as per specifications.***
- ***Make sure the valve clearance adjustment of both the exhaust valves should be same as per specifications.***

CLUTCH LEVER FREE PLAY

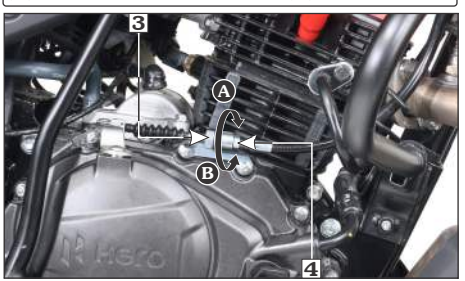
Adjustment

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

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



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



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

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

NOTE

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

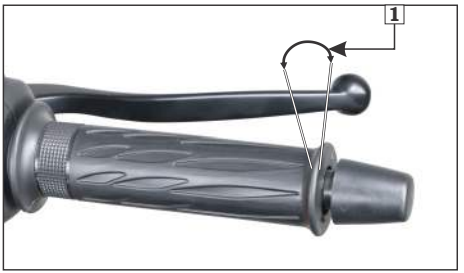
Other checks

- 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

(a) At handlebar side

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



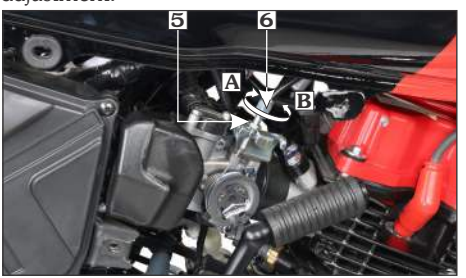
(2) Boot (3) Lock nut (4) Adjuster
(A) Decrease free play (B) Increase free play

If the specified free play is not achieved, adjust the free play on throttle body side.

(b) At throttle body side

Remove the right side cover **(page 53)**.

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



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

DRIVE CHAIN SLACKNESS

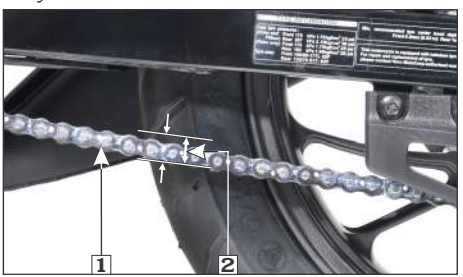
The service life of the drive chain depends upon proper lubrication and adjustment.

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

The drive chain (1) should be checked and lubricated as part of the pre-ride inspection **(page 36).** 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.



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

- 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.

NOTE

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

- Rotate the rear wheel slowly and inspect the drive chain and sprockets for any of the following conditions.

Drive chain

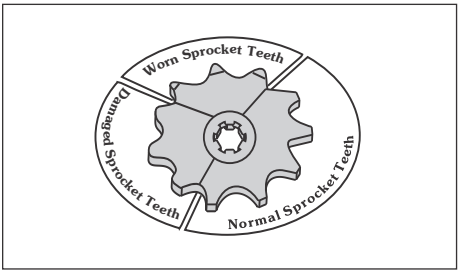
- Damaged rollers
- Loose pins
- Dry or rusted links
- Kinked or binding links
- Excessive wear
- Improper adjustment
- Damaged or missing O-rings

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.

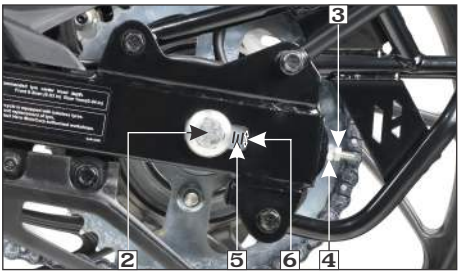
If the drive chain requires adjustment, follow the procedures below:

- 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).



(1) Rear axle nut

- Loosen the drive chain lock nut (3) from both side.
- Turn the adjusting nut (4) in an equal number of turns until the correct drive chain slack is obtained. Turn the adjusting nut clockwise to decrease the slack or anticlockwise to increase the slack of the chain.
- Align the chain adjuster index mark (5) with the rear edge (6) of the adjusting slots on both sides of the swingarm equally.



(2) Axle (3) Drive chain lock nut
(4) Drive chain adjusting nut (5) Index mark
(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 (2) 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 near by 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

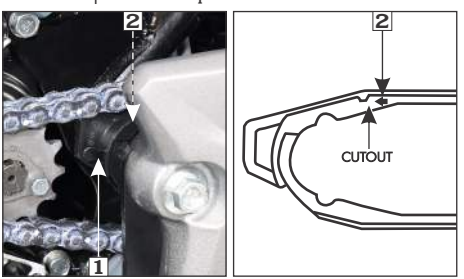
- ***Steam cleaning, high pressure washers and certain solvents can damage the drive chain O-rings.***
- ***While lubricating and cleaning hold the rear wheel with one hand to prevent the possibility of your finger being trapped between the chain and sprocket.***
- ***Clean and lubricate the chain, whenever 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 45**).

Check the chain slider (1) for wear, The chain slider must be replaced if wear limit (2) is reached.

For replacement, see your Authorised Hero MotoCorp workshop.



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

BRAKES

Refer to the safety precautions on **(page 44).**

(a) Front brake

Master Cylinder/Reservoir (1)

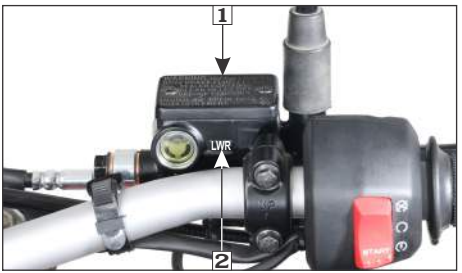
Location : Right handlebar.

Brake fluid recommended:

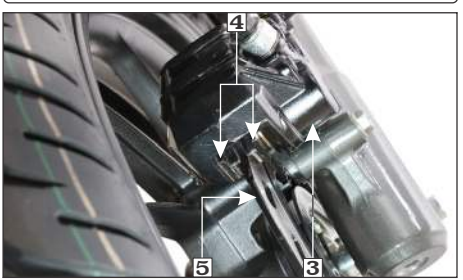
DoT-4/DoT-3.

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/Reservoir
(2) Lower mark



(3) Front brake caliper **(4) Brake pad**
(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 70) for better braking performance.***

(b) Rear brake

Refer to the safety precautions on **(page 45).**

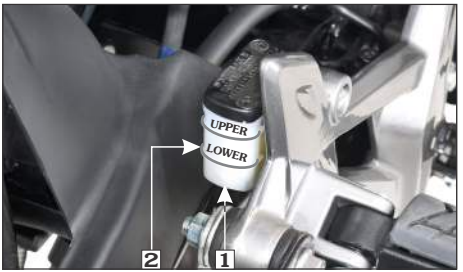
Reservoir (1)

Location: Behind right side rider/pillion footrest bracket.

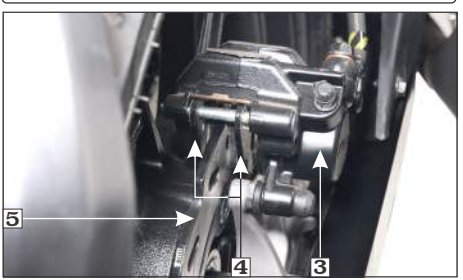
Brake fluid recommended :

DoT-4/DoT-3.

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 brake caliper (4) Brake pads (5) Disc

NOTE

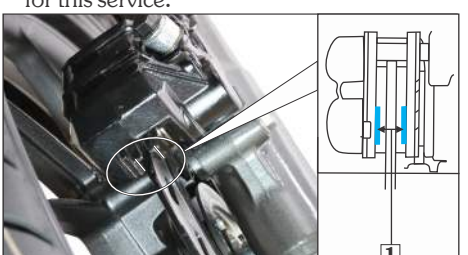
- ***Clean the dirt and mud accumulation between the rear brake caliper (3), brake pads (4) and the disc (5) by using a water jet.***
- ***Always contact your Authorised*** Hero MotoCorp ***workshop for refilling of reservoir when necessary. Do not mix DoT 3 and DoT 4 brake fluid.***

(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 as per maintenance schedule, however more frequent inspection is recommended if used in wet and dirty roads.

Front brake

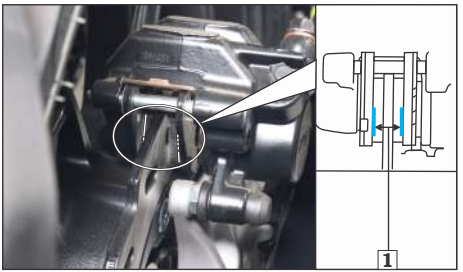
- Check the brake pads for wear by examining the wear indicator groove **(1)** on each pad.
- If either pad is worn to the bottom of the grooves replace both pads as a set. Visit your Authorised Hero MotoCorp workshop for this service.



(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

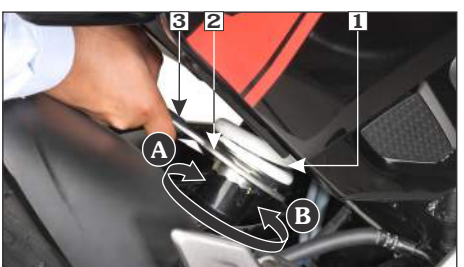
- Check the front forks by locking the front brake and pumping the front fork up and down vigorously. The suspension action should be smooth and there should be no oil leakage.
- Check the rear mono shock absorber by pushing hard downwards on rear grip while the vehicle is not parked on stand. The suspension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



Rear mono shock absorber adjustment

Rear shock absorber adjustment can be made according to the load/road conditions.

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



(1) Rear mono shock absorber
(2) Pin spanner (3) Pin spanner handle
(A) Softer (B) Stiffer

NOTE

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

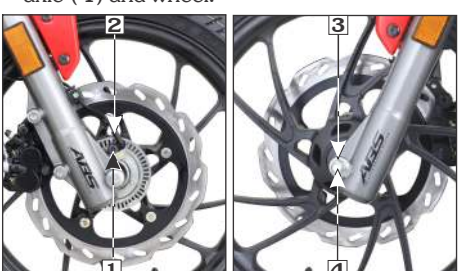
WHEEL

(a) Front wheel

Removal

Refer to the safety precautions on **(page 44).**

- 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 (2).
- Remove the front axle nut (3), remove the axle (4) and wheel.



(1) Wheel speed sensor bolt
(2) Wheel speed sensor
(3) Front axle nut **(4) Axle**

CAUTION

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

- Remove the side collars (5) from both sides of the wheel.



(5) 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

- Install the wheel speed sensor (5).
- 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.



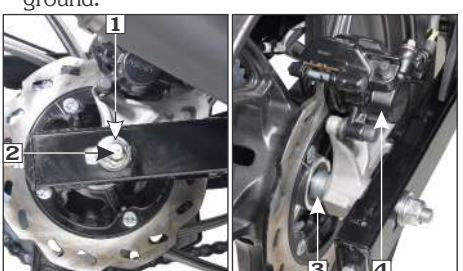
(1) Side collar (2) Disc
(3) Caliper (4) Front axle nut
(5) Wheel speed sensor

(b) Rear wheel

Removal

Refer safety precautions on **(page 44).**

- Support the vehicle securely on the main stand and raise the rear wheel off the ground.

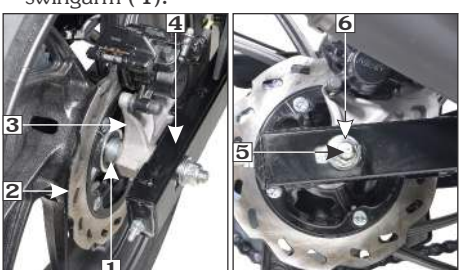


(1) Rear axle nut (2) Axle
(3) Side collar (4) Caliper assembly

- Remove the rear hugger fender.
- Remove the rear axle nut (1).
- Remove the axle (2) and the right side collar (3).
- Move the caliper assembly (4) upwards.
- Slide the wheel out from right side.

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).



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

- Insert the axle (5) from the left side through the swingarm, wheel hub, collar and rear caliper holder.
- Tighten the rear axle nut (6) to the specified torque.

TORQUE : 6.8 kgf-m

- Install the rear hugger fender.
- Adjust the drive chain slack **(page 57).**

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.
- 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 air pressure gauge (1) to measure air pressure at least once a month or any time you think the tyres pressure might be low.



(1) Air pressure gauge

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

Always check air pressure when your tyres are "cold"-when the vehicle has been parked for at least three hours. If you check air pressure when your tyres are "warm"-when the vehicle has been ridden for even a few km-the readings will be higher than if the tyres were "cold". This is normal, so do not let air out of the tyres to match the recommended cold air pressures given below. If you do, the tyres will be under-inflated.

The recommended "cold" tyre pressures are:

	Rider only	Rider and Pillion
Front	1.75 kgf/cm² (25 psi)	1.75 kgf/cm² (25 psi)
Rear	1.96 kgf/cm² (28 psi)	2.10 kgf/cm² (30 psi)

! CAUTION

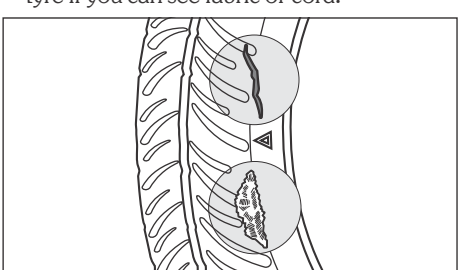
Over inflation/Under inflation will affect the performance.

Inspection

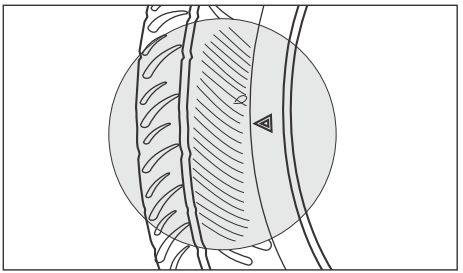
Whenever you check the tyre pressure, you should also examine tyre treads & side walls for wear, damage & foreign objects.

Look for:

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



• Excessive tread wear.



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

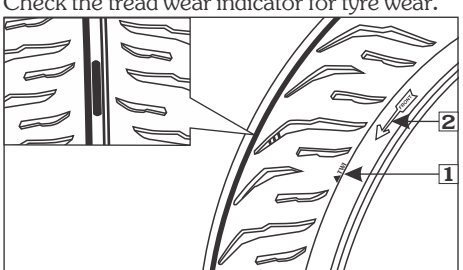
Tread wear

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 as per 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 44).**

Location

The battery is located behind the left side cover.

Specification

*MF Battery 12V-6Ah/ETZ-7

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.

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.***

***MF stands for Maintenance Free**

Battery charging

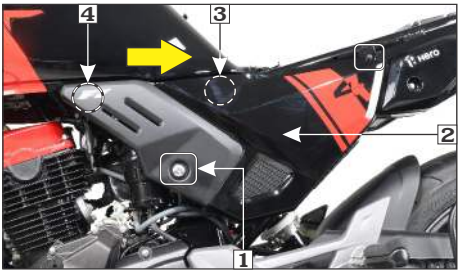
Always visit your Authorised Hero MotoCorp workshop if you see any symptom of battery discharge as earliest as possible to get the battery charged. The battery has a tendency to discharge rapidly if additional electrical accessories are fitted on the vehicle.

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 34).**
- Remove the left side cover screws (1), side cover (2) by releasing the lug from the grommet (3) and slide the cover as per the direction to release tab from the slot (4).



(1) Left side cover screws (2) Side cover
(3) Lug/Grommet (4) Tab/Slot

- Disconnect the (–)ve terminal lead (5) from the battery first, then disconnect the (+)ve terminal lead (6).
- Remove the battery clamp bolt (7) and the battery clamp (8).



(5) (–)ve terminal (6) (+)ve terminal
(7) Battery clamp bolt (8) Battery clamp

- Pullout the battery (9) from the battery box.



(9) Battery

Battery installation

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

FUSE REPLACEMENT

Refer to the safety precautions on **(page 44).**

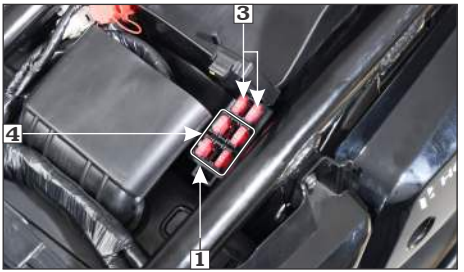
Fuse box (1)

Location: Below the seat.

Fuse type: Blade fuse

Main fuse (2) : 10A, 10A, 10A & 10A

Spare fuse (3) : 10A, 10A



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

Starter magnetic switch (4)

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

Fuse type: Blade fuse

Main fuse (5) : 20A
Spare fuse (6) : 20A



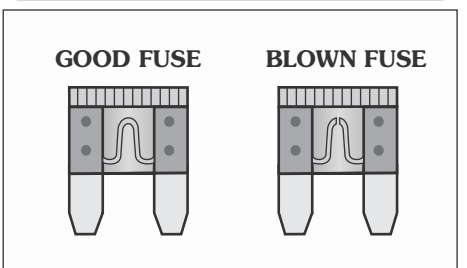
(4) Starter magnetic switch
(5) Main fuse: 20A (6) Spare fuse: 20A

⚠ 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

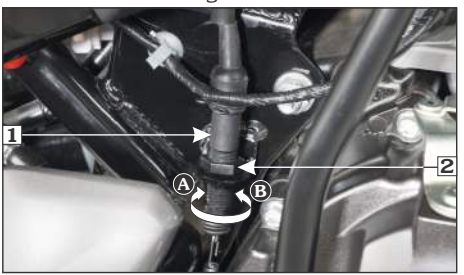
- ***Do not attempt to start or ride the vehicle without a charged battery, it can cause fusing of the bulbs and permanent damage to certain electrical components.***
- ***Turn the ignition switch "OFF" before checking or replacing the fuse to prevent accidental short-circuiting.***



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" (○) 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.

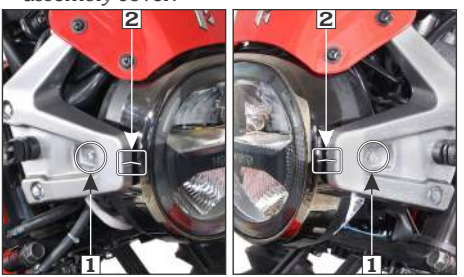


(1) Stop lamp switch **(A) Advance**
(2) Adjusting nut **(B) Retard**

HEADLAMP FOCUS ADJUSTMENT

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

- Headlamp adjustment is done by loosening the bolts (1) located on both the sides of the headlamp assembly.
- Park the vehicle on it main stand on level ground.
- Turn the ignition switch to "ON" (○) position and start the engine.
- Adjust the headlamp by loosening the bolts (1) and moving the headlamp assembly up and down for correct focus adjustment.
- Align the headlamp casing index marks (2) to the index mark on the headlamp assembly cover.



(1) Adjusting bolts **(2) Index marks**

- After adjusting the headlamp, tighten the 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 converter

! CAUTION

Avoid keeping any cloth or flammable object between hot parts (muffler, oil cooler, engine).

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

Check engine stop switch position
- "OFF" → Turn to "ON" (Ω) position
- "ON" (Ω) position ↓

Consult Authorised Hero MotoCorp **Workshop**

B. Side Stand Engine Kill System

Check side stand in gear condition **(page 32)**
- Side stand "Down" → Move the side stand up
- Side stand "Up" ↓

Consult Authorised Hero MotoCorp **Workshop**

C. Fuel System

Check fuel gauge
- Low fuel indicator glows continuously → Refill the fuel tank
- Key "ON" position ↓

Check fuel lines
- Leakage → **Consult Authorised** Hero MotoCorp **Workshop**
- OK ↓

Check for operating sound of fuel pump
- Broken fuel pump wire connector → Secure connections
- OK ↓

Consult Authorised Hero MotoCorp **Workshop**

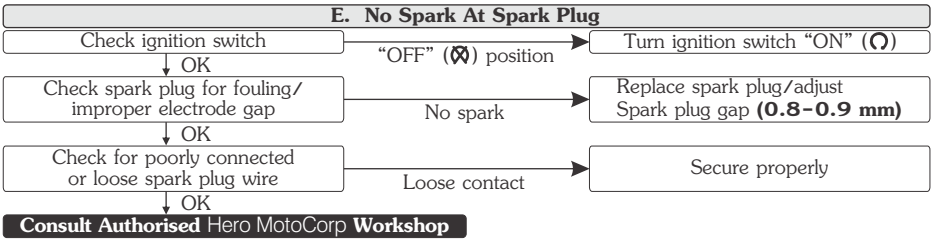
D. Electric Starter Not Working

Check fuse
- Fused → Replace fuse **(page 72)**
- OK ↓

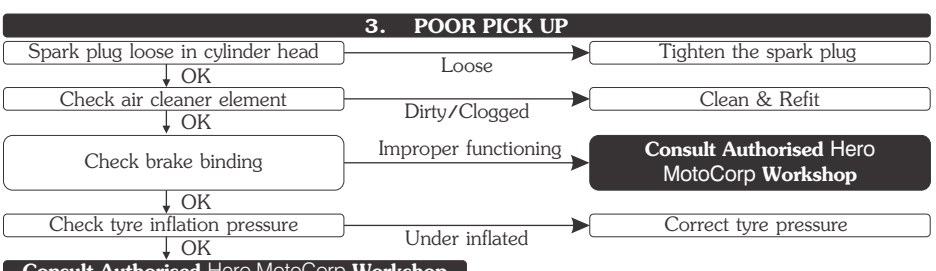
Inspect battery
- Weak → **Consult Authorised** Hero MotoCorp **Workshop**
- OK ↓

Check connections, ignition switch/starter switch
- Loose → Secure connections
- OK ↓

Consult Authorised Hero MotoCorp **Workshop**

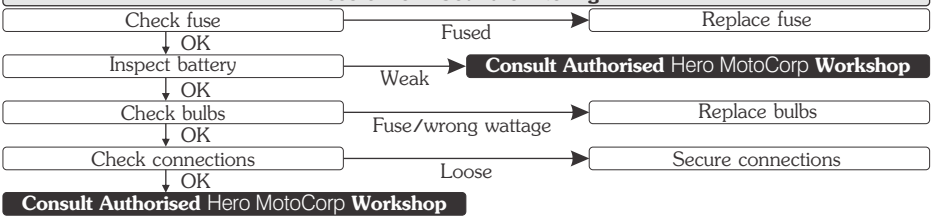

E. No Spark At Spark Plug
Check ignition switch
"OFF" (⊗) position
Turn ignition switch "ON" (Ω)
OK
Check spark plug for fouling/ improper electrode gap
No spark
Replace spark plug/adjust Spark plug gap (0.8-0.9 mm)
OK
Check for poorly connected or loose spark plug wire
Loose contact
Secure properly
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/Clogged
Clean & Refit
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
Dirty/Clogged
Clean & Refit
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

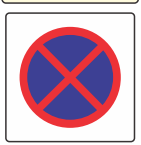

No Right Turn


No 'U' Turn


Overtaking Prohibited



Speed Limit


No Stopping or Standing


No Parking



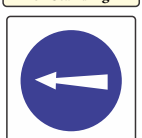
Length Limit



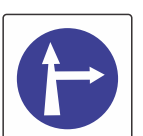
High Limit

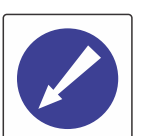

Restriction Ends


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



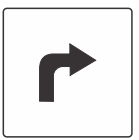
Re-assure Sign

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

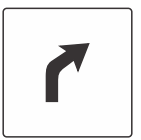
NAVIGATION SIGNS

Navigation signs: Hero navigation app. and meter console of your vehicle will display step by step navigation guidance/direction through below navigation signs when your vehicle is in navigation mode with your smartphone.

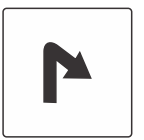

Turn Left


Turn Right


Turn Slight Left

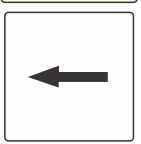

Turn Slight Right

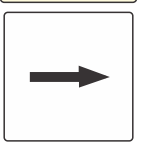

Turn Sharp Left


Turn Sharp Right


Straight


Merge


Keep Left


Keep Right


Ramp Left


Ramp Right


Round About Left


Round About Right


U Turn Left

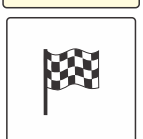

U Turn Right

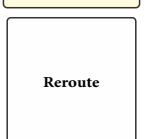

Fork Left


Fork Right


Ferry


Ferry Train


Destination Reached



Wrong way

Hero MotoCorp Ltd.

WARRANTY

Scope of warranty

Hero MotoCorp Ltd. (hereinafter called 'Hero MotoCorp') warrants its **XPULSE 200T 4V** 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) **XPULSE 200T 4V** vehicle is warranted for a period of **5 years or 70000 Km**, whichever is earlier, from the date of purchase, emission warranty is separately covered under the head of "Emission Warranty".

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

c) If any problem is observed in **XPULSE 200T 4V** 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 **XPULSE 200T 4V** 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 Hero Xotic+ SAE 10W 30 SL MA2 fully synthetic PAO based oil.

(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 **XPULSE 200T 4V** 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 **XPULSE 200T 4V** vehicle.

(11) If any defect crops or repairs needed as a result of **XPULSE 200T 4V** 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 **XPULSE 200T 4V** vehicle which has been tampered or repaired in such a manner which has resulted in malfunction of the vehicle.

(14) For **XPULSE 200T 4V** 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.

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.

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 180 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

Hero MotoCorp Ltd., Office No. 705-706, 7th Floor, Manglam Fun Square, Durga Nursery Road, Udaipur -313001 (Rajasthan). Tel: +91 0294-2980578, 79, E-mail: udaipur@heromotocorp.com

Hero MotoCorp Ltd., Office. No.401, 4th Floor, Offizo, Magneto Mall, Labhandi, G.E. Road, Raipur -492 001, (Chhattisgarh) Tel: +91-771-4034749, E-mail: raipur@heromotocorp.com

Hero MotoCorp Ltd., Office No. 55 to 59, 1st Floor, Maple High Street, Opposite Aashima Mall, Hoshangabad Road, Bhopal-462026, India. Tel: +91-755-2994416, +91-755-2994398, E-mail: bhopal@heromotocorp.com

Hero MotoCorp Ltd., Maloo-01, 601-602, 6th Floor, Plot No. 26C, Scheme No. 94, Ring Road, Indore, M.P.-452010, Tel: +91-731-4978269, 70, E-mail: indore@heromotocorp.com

EAST ZONE

Hero MotoCorp Ltd., Flat No: 1002. 10th Floor, Martin Burn Business Park, BP3, Salt Lake, Sector-V, Kolkata-700091, West Bengal, India. Tel : +91-33-44026841,+91-33-44026830, E-mail : kolkata@heromotocorp.com

Hero MotoCorp Ltd., Odyssa Business Centre, Plot no. 30, 30/982, 172/1030, 4th Floor Cuttack, Bhubaneshwar highway road, Rasulgarh, Bhubaneswar-751010, Odisha, India. Tel: +91-674-2581161, 62, 63, 64, E-mail: bhubaneshwar@heromotocorp.com

Hero MotoCorp Ltd., Yash Heights, 1st Floor Bariatu Road, Above Basudeb Tata Showroom Ranchi-834009, Jharkhand, India. Tel: +91-651-2542222, 2542224, 2542225, E-mail: ranchi@heromotocorp.com

Hero MotoCorp Ltd., Sai Corporate Park, A Block, 6th Floor, Rukanpura, Bailey Road Patna, Bihar – 800014 Tel: +910612-2590587/88/89 E-mail: patna@heromotocorp.com

Hero MotoCorp Ltd., 158, Christian Basti, Golden Heights, 3rd Floor, Reliance Trend Building, Adjacent Central Mall, G.S. road, Kamrup, Assam-781005 Tel: 0361-2340058 E-mail: guwahati@heromotocorp.com

NORTH ZONE

Hero MotoCorp Ltd., 3rd Floor, Tower-A, DLF Centre Court, Sector-42, Golf Course Road, Gurgaon -122002, Haryana, India. Tel: 0124-4754800, E-mail: delhi@heromotocorp.com

Hero MotoCorp Ltd., 602, 6th Floor, Tower A, Plot No BW 58, Logix City Center, Sector-32, Noida – 201301. Uttar Pradesh Tel: 0120-4631000, E-mail: noida@heromotocorp.com

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

NORTH ZONE

Hero MotoCorp Ltd., Kapoor Towers, Plot No- 284, 15-B, Rajpur Road, Dehradun-248001, Uttarakhand, India.
Tel:0135-2714661,2713662,2714663, E-mail: dehradun@heromotocorp.com

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

Hero MotoCorp Ltd., C-19/134-B ,Third Floor I .P Grand, Lallapura, Sigra, Varanasi, Uttar Pradesh - 221010, India.
Tel: +91-0542- 2390949,2390241, E-mail: varanasi@heromotocorp.com

SOUTH ZONE

Hero MotoCorp Ltd., SKAV 909, 3rd Floor, 9/1, Lavelle Road, Bangalore-560001, India.
Tel: +91-80-46881000, E-mail: bangalore@heromotocorp.com

Hero MotoCorp Ltd., 3-6-289, 3rd Floor, Kareem Manzil, Hyderguda, Hyderabad-500029, India.
Tel:+91-40-23223735/3727, E-mail: hyderabad@heromotocorp.com

Hero MotoCorp Ltd., 9th Floor Seshachalam Centre No.636/1. Anna Salai, Nandanam, Chennai-600035, India.
Tel: +91-44- 24340974, 24340977, 24340978, E-mail: chennai@heromotocorp.com

Hero MotoCorp Ltd., 6-A, DD Trade Tower, (6th Floor), Kaloor-Kadavanthra Road, Kaloor-682 017, Kochi-682017, India. Tel: +91-0484- 4039646 -7, E-mail: cochin@heromotocorp.com

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

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

Hero MotoCorp Ltd., D.NO. 54-11-18 E, 2nd Floor, Sai Oddessey Building, Opp Executive Club, Near NH-5, Vijayawada-520008, Andhra Pradesh, India. Tel: +91-866-2546859, E-mail: vijayawada@heromotocorp.com

WEST ZONE

Hero MotoCorp Ltd., Chrome Building, Sr. No. 33, Hissa-A-1/1/2, Plot - 2, Viman Nagar Avenue 2, Nagar Road, Pune-411014, India. Tel: +91-020-71903500, E-mail: pune@heromotocorp.com

Hero MotoCorp Ltd., 604, Gunjan Tower, Off Alembic Gorwa Road, Baroda-390023, India.
Tel: +91-265-2286569/2286570, E-mail: baroda@heromotocorp.com

Hero MotoCorp Ltd., Ground Floor, Block No.2, Vishnu Vaibhav Complex, 222, Palm Road, Civil Lines, Nagpur-440001 India. Tel: +91-712-2545990-91, E-mail: nagpur@heromotocorp.com

Hero MotoCorp Ltd., Classic Stripes House, 3rd Floor76/79, Makwana Lane, Takpada Off. Andheri-Kurla Road Marol, Andheri Easta, Mumbai-400059, India. Tel: +91-22-28562071, E-mail: mumbai@heromotocorp.com

Hero MotoCorp Ltd., B-201, 2nd floor, Pride Corporate Royal Park, Kalavad Road, Rajkot -360001
Tel: 0281-2460622, 2460623, E-mail: rajkot@heromotocorp.com

Hero MotoCorp Ltd.

Registered Office

The Grand Plaza, Plot No.2, Nelson Mandela Road, Vasant Kunj - Phase -II,
New Delhi - 110070, India. CIN: L35911DL1984PLC017354, PAN: AAACH0812J Phone No.: 011 – 46044100,
Fax No.: 011 – 26143198, 26143321. Toll Free No.: 1800 - 266 - 0018, Website: www.heromotocorp.com

- **Dharuhera Plant**

  69 Km. Stone, Delhi – Jaipur Highway,
  Dharuhera – 122 100, Dist. Rewari, Haryana,
  India. Phone No.: 01274 – 264000,
  Fax No.: 01274 – 267018

- **Gurgaon Plant**

  37 Km. Stone, Delhi – Jaipur Highway,
  Sector – 33, Gurgaon – 122 001, Haryana,
  India. Phone No.: 0124 – 2894200, 2372123,
  Fax No.: 0124 – 2373141 – 42

- **Haridwar Plant**

  Plot No. 3, Sector – 10, IIE, SIDCUL,
  Roshanabad, Haridwar – 249 403, Uttarakhand,
  India. Phone No.: 01334 – 238500,
  Fax No.: 01334 – 239512

- **Neemrana Plant**

  Plot No. 101-103, 108 & 109, RIICO
  Industrial Area, Delhi - Jaipur Highway,
  Neemrana, Dist: Alwar - 301 705,
  Rajasthan, India.

- **Halol Plant**

  Plot No. 102 (Expansion) Indl, Estate,
  Vadodara Godhra Highway, Taluka: Kalol,
  Tehsil: Halol, Distt, Panchmahal - 389 350,
  Gujarat, India.
  Phone No.: 02676-229114.

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