

OWNER MANUAL

PREFACE

Thank you for selecting a Hero MotoCorp **MAVRICK 440**. 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-II (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 **MAVRICK 440**. 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 PUBLISHING APPROVAL, AND THE ACCURACY OR CORRECTNESS OF THE SAME IS NOT UNDERTAKEN OR GUARANTEED.

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

ACCESSORIES SHOWN MAY NOT BE THE PART OF STANDARD FITMENT. IT IS OUR ENDEAVOUR TO CONSTANTLY IMPROVE OUR PRODUCTS. THIS COULD LEAD TO CHANGE IN PRODUCT SPECIFICATIONS WITHOUT NOTICE. Hero MotoCorp Ltd ***'MAVRICK 440' COMPLIES WITH THE LATEST EMISSION NORMS.***

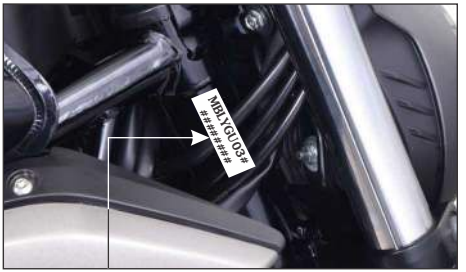
ADDENDUM

As per Ministry of Road Transport & Highways (Government of India) vide Notification G.S.R. 174 (E) dated 11th March, 2024, Hemostatic agent (Feracrylum 1% gel) is added in first aid kit as an addition into the existing kit.

CONTENTS

	Pg. No.		Pg. No.
VEHICLE IDENTIFICATION	1	SAFETY PRECAUTION	61
VEHICLE VIEWS	2	MAINTENANCE SCHEDULE	62
VEHICLE SPECIFICATION	7	SPARK PLUG INSPECTION	65
ACCESSORIES & MODIFICATIONS	10	ENGINE OIL	66
ANTI-THEFT TIPS	10	ENGINE OIL FILTER	67
VEHICLE SAFETY	11	ENGINE OIL COOLER	69
• Important Safety Information	11	AIR CLEANER	69
• Protective Apparel	12	VALVE CLEARANCE	71
SAFE RIDING TIPS	13	CLUTCH LEVER FREE PLAY	71
TIPS FOR HEALTHY ENVIRONMENT	14	THROTTLE OPERATION	72
PART FUNCTION	15	DRIVE CHAIN SLACKNESS	72
• Ignition Switch	15	DRIVE CHAIN SLIDER INSPECTION	76
• Instruments and Indicators	16	BRAKES	76
• LCD Panel	20	SUSPENSION	79
LOW FUEL INDICATOR	24	WHEEL	80
FEATURES	25	MAIN/SIDE STAND LUBRICATION	83
HANDLEBAR SWITCHES CONTROL	41	TUBELESS TYRES	83
ABS INDICATOR	46	TYRE WITH TUBE	86
SIDE STAND INDICATOR/SWITCH	47	NUT, BOLTS & FASTENERS	88
FUEL	48	BATTERY	89
SEAT LOCK	50	FUSE REPLACEMENT	90
USB CHARGER	50	HEADLAMP FOCUS ADJUSTMENT	92
PRE-RIDE INSPECTION	51	CATALYTIC CONVERTER	92
STARTING THE ENGINE	52	EVAPORATIVE EMISSION CONTROL SYSTEM	93
RIDING	55	POLISHING OF VEHICLE	93
BRAKING	55	BASIC TROUBLESHOOTING	94
PARKING	58	ROAD SIGNS	97
TOOL KIT	58	NAVIGATION SIGNS	99
FIRST AID KIT	58	WARRANTY	
CLEANING AND WASHING THE VEHICLE	59	HERO GENUINE PARTS	
MAINTENANCE	60	ZONAL/REGIONAL/AREA OFFICES	

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: MBLYGU03#########

MBL	YGU03	#	#	#	#	#####
Manufacturer code	Vehicle Description	Check Digit	Model Year	Plant Code	Month of Manufacturing	Production Serial Number

Engine No.: YG01AD########

YG01AD	#	#	#	#####
Engine Description	Year of Manufacturing	Assembly Plant	Month of Manufacturing	Serial Number

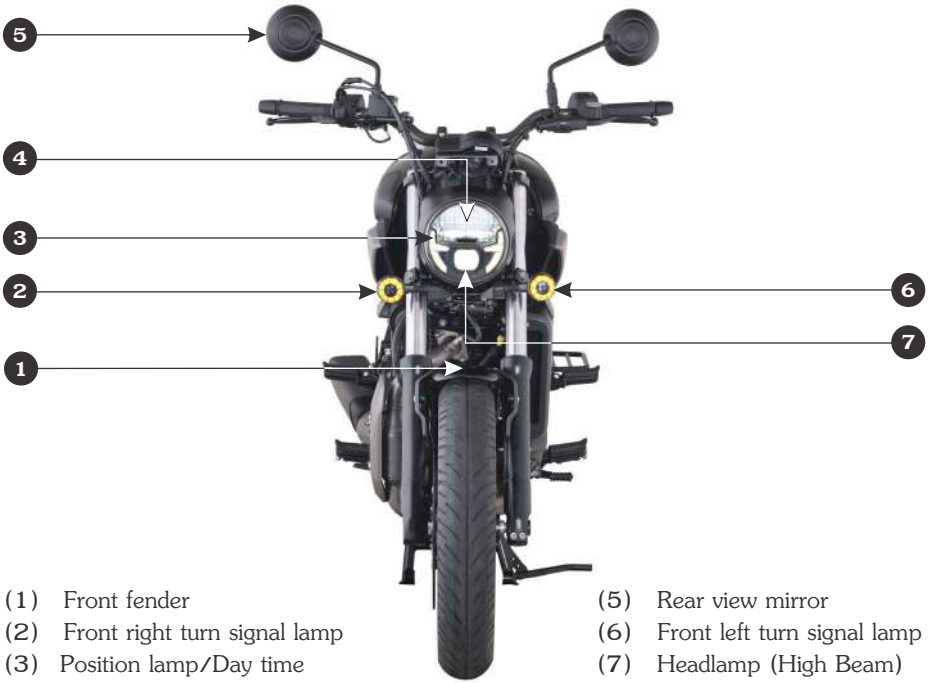
Model: MAVRICK 440

Variants	VIN	Engine
Cruiser/Roadster/Top Connected 2.0 (Phantom/Enigma)	YGU03	YG01AD
Cruiser/Roadster/Mid Non Connected (Groove)	YGU02	YG01AC
Cruiser/Roadster/Base Non Connected (Glide)	YGL01	YG01AC

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) Position lamp/Day time running lamp
(4) Headlamp (Low Beam)
(5) Rear view mirror
(6) Front left turn signal lamp
(7) Headlamp (High Beam)

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

REAR VIEW



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

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

TOP VIEW



(1) Fuel tank cap
(2) Horn switch
(3) Turn signal switch
(4) Clutch lever
(5) Headlamp dimmer/Pass lamp switch
(6) QR code/E20 sticker
(7) USB charger
(8) Meter console
(9) Mode button
(10) Set button
(11) Front brake master cylinder/Reservoir
(12) Hazard switch
(13) Front brake lever
(14) Throttle grip
(15) Integrated start-kill switch
(16) SOS alert/Panic switch (Phantom/Enigma variant)
(17) Ignition switch with key

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

LEFT SIDE VIEW



(1) Oil cooler
(2) Starter motor
(3) Gearshift pedal
(4) Main stand (Optional)
(5) Side stand
(6) Pillion footrest
(7) Saree guard with women pillion step
(8) Rear grip
(9) Seat
(10) Left side cover
(11) Side stand switch

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

RIGHT SIDE VIEW



(1) Rear disc
(2) Rear brake fluid reservoir
(3) Rear brake master cylinder
(4) Rider footrest
(5) Brake pedal
(6) Oil level window
(7) Front brake caliper assembly
(8) Front disc
(9) Right side cover
(10) Battery compartment (inside)
(11) Fuse box (inside)
(12) Rear brake caliper assembly
(13) Exhaust muffler

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

VEHICLE SPECIFICATION

ITEM		SPECIFICATIONS
Dimensions		
Overall length		2100 mm
Overall width		868 mm
Overall height		1112 mm
Wheelbase		1388 mm
Saddle height		803 mm
Ground clearance		175 mm
Weight		
Kerb weight		187 kg (Phantom/Enigma & Groove variant)
		191 kg (Glide variant)
Capacities		
Engine oil		2.6 litres at disassembly and 2.25 litres at draining
Fuel tank capacity		13.5 litres
Hydraulic brake fluid		DoT-4
Engine		
Maximum power		20.13 kW/27 bhp @ 6000 r/min
Maximum torque		36 N-m @ 4000 r/min
Bore and stroke		79.6 x 88.4 mm
Compression ratio		9.65:1
Displacement		440 cc
Spark plug		Federal Mogul REK6YC
Spark plug gap		0.8-0.9 mm
Valve clearance	Intake (cold)	0.10 mm±0.02 mm
	Exhaust (cold)	0.22 mm±0.02 mm
Idle speed		1600±100 r/min (cold condition) 1300±100 r/min (hot condition)

VEHICLE SPECIFICATION

ITEM		SPECIFICATIONS
Chassis and suspension		
Front suspension		Conventional front forks
Rear suspension		Hydraulic twin shock
Caster angle		23.9°
Trail length		91.4 mm
Tyre size	Front	110/70-17 54H TL
	Rear	150/60 ZR-17 66W TL
Tyre pressure	Front	27 psi
	Rear	29 psi
Brakes	Front (Disc type)	Dia. 320 mm
	Rear (Disc type)	Dia. 240 mm
Transmission		
Primary reduction		2.308
Final reduction		2.53
Transmission		Manual 6 speed
Gear ratio, 1st		2.833
2nd		1.875
3rd		1.4
4th		1.136
5th		0.958
6th		0.818
Electricals		
Battery		*MF Battery 12V-8 Ah/ETZ-9
Alternator		325 W @ 5000 r/min
Headlamp		LED
Position lamp		LED

***MF stands for Maintenance Free**

VEHICLE SPECIFICATION

ITEM		SPECIFICATIONS
Tail/Stop lamp		LED
Turn signal lamp		LED
Turn signal indicator (RH/LH)		LEDx2nos.
Hi beam indicator		LED
ABS indicator		LED
Service reminder indicator		LCD
Licence plate lamp		LED
Malfunction indicator lamp (MIL)		LED
Low oil pressure indicator		LED
Low fuel indicator		LED
Neutral indicator		LED
Side stand indicator		LED
Fog lamp indicator (Optional)		LED
Fuse	Starter magnetic switch	25A (Main fuse)
	Main fuse	15Ax3 & 10x3
	Spare fuse	15A, 10A, 25A

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

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 51).**
- 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 97).**
- 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" (O) position.
- Keep checking the ABS indicator. At any point if indicator remains on, then ABS is not working **(page 46).**
- 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 56)** 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.
- Avoid keeping any cloth or flammable object between or around the hot parts (muffler, oil cooler, engine).
- 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 44).**
- Do not move the side stand down while riding, as engine will stop while vehicle is in gear **(page 46)** (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+ 100% Synthetic SAE 15W 50 recommended by Hero MotoCorp and make sure you change it every 10000 km. (with top up every 5000 kilometres) to keep the engine fit and environment healthy.

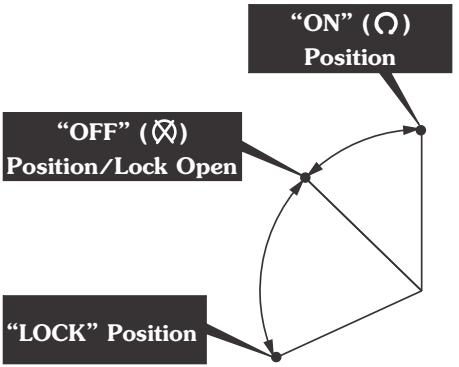
- **Noise pollution:** Noise beyond a certain decibel is pollution. Whether it is from horns or defective mufflers, excessive noise will cause headaches and discomfort.

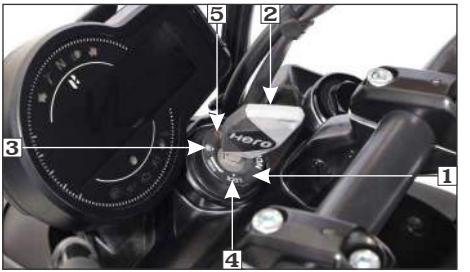
- **Emission pollution:** Get emission of your vehicle checked by Authorised agencies atleast once every 6 months or as notified by the government from time to time.

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

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

PARTS FUNCTION
IGNITION SWITCH



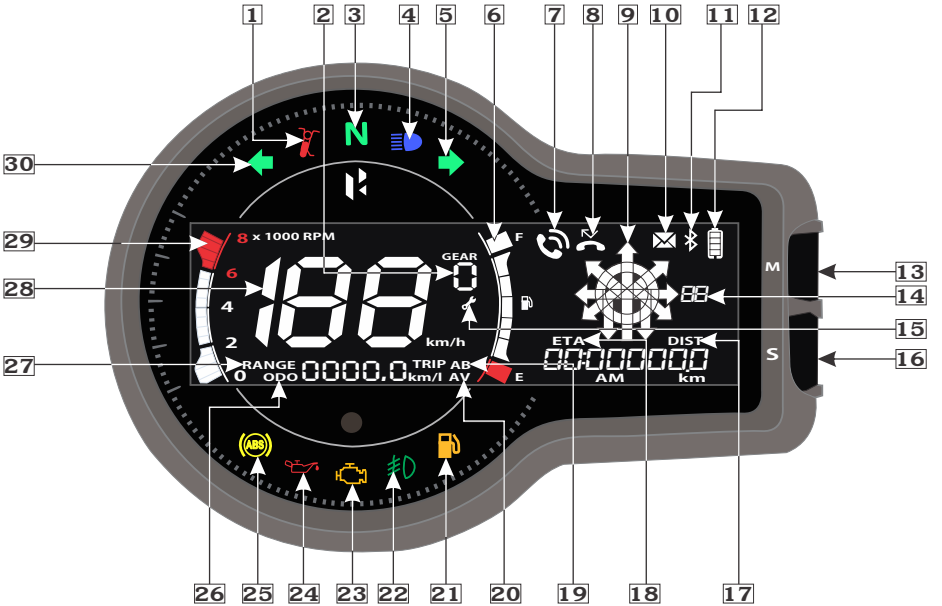


1. Ignition switch
2. Ignition key
3. "OFF" (⊗) position
4. Steering lock position
5. "ON" (⊂) position

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, hazard switch & neutral indicator will be functional. 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	Side stand indicator	Light glows when the vehicle is parked on the side stand.
2	Gear indicator	Displays the selected gear while riding **(page 25).**
3	Neutral indicator	Light glows when vehicle is in neutral.
4	High beam indicator	Light glows when headlamp is in high beam.
5	Right turn signal indicator	Flashes when right turn signal switch is operated.
6	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 21).**
7	Incoming call alert	You will get all the incoming call alert on the meter console once your smartphone is paired with the vehicle via Hero app **(page 30)**.
8	Missed call alert	You will get all the missed call alert on the meter console once your smartphone is paired with the vehicle via Hero app **(page 30)**.
9	Navigation	Displays turn by turn navigation guidance/direction through navigation signs once cluster receives the navigation data via Hero app **(page 32)**.
10	Message alert	You will get all the message alert on the meter console once your smartphone is paired with the vehicle via Hero app **(page 31)**.
11	Bluetooth	On pairing with Hero app **(page 25)**, the meter console displays a bluetooth symbol, indicating bluetooth is connected.

SL. No.	Description	Function
12	Phone battery status	Display battery status of smartphone on the meter console once your smartphone is paired with the vehicle via Hero app **(page 31)**.
13	Mode button	Switches display between odometer, tripmeter–A & B, RTMI mode, range & appearance.
14	Round about exist	Displays the number of round about exists during navigation.
15	Service reminder indicator	Displays when the next service is due **(page 22).**
16	Set button	To adjust clock & when long pressed resets tripmeter to zero.
17	Navigation next move distance	Once the navigation is started via Hero app **(page 32)** meter console will display the distance for next move to the location.
18	ETA (Estimated time of arrival)	Once the desired location is enter in navigation via Hero app **(page 32)** meter console will ETA (Estimated time of arrival) to the location.
19	Tripmeter A & B	Shows the distance travelled during a trip after setting to zero **(page 21)**.
20	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 22)**.
21	Low fuel indicator	Light glows when the fuel quantity is low **(page 24).**
22	Fog indicator (Optional)	Light glows when fog lamp is “ON”.

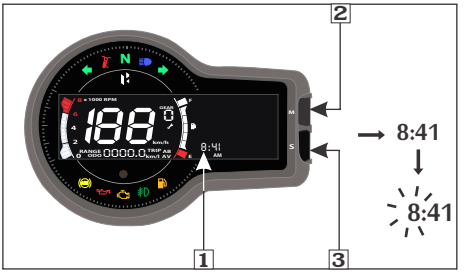
SL. No.	Description	Function
23	Malfunction indicator lamp (MIL)	When the ignition switch is turned "ON" the malfunction indicator lamp (MIL) glows continuously and then should go "OFF" once the engine is started. It indicates that vehicle is OK. If it glows continuously there is an abnormality in the vehicle, it is recommended to reduce the speed and drive to the Authorised Hero MotoCorp workshop for check-up.
24	Low oil pressure indicator	When the ignition switch is turned "ON" the low oil pressure indicator lamp glows continuously and then should go "OFF" once the engine is started. It indicates that engine oil pressure in the system is OK. If it glows continuously during a trip, stop immediately, switch "OFF" the engine and contact an Authorised Hero MotoCorp workshop.
25	Anti-lock braking system (ABS) indicator	This indicator normally comes on for approx 1.8 seconds when the ignition switch is turned "ON" (Ω) & then keeps blinking until the vehicle attains speed of 5 km/h. If there is a problem with the anti-lock brake system, ABS indicator turns "ON" **(page 46).**
26	Odometer	Shows accumulated distance travelled **(page 21).**
27	DTE (Distance to empty)	Indicates how many kilometers are left before the complete fuel is consumed in the fuel tank during riding.
28	Speedometer	Indicates riding speed.
29	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".
30	Left turn signal indicator	Flashes when left turn signal switch is operated.

LCD PANEL

(a) Digital clock

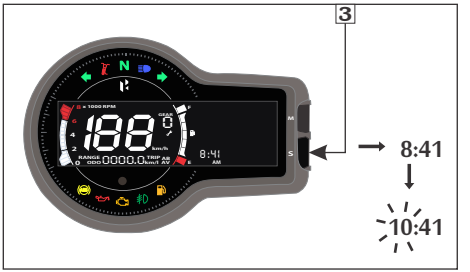
Digital clock (1) shows hour and minute. To adjust the time, proceed as follows :

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



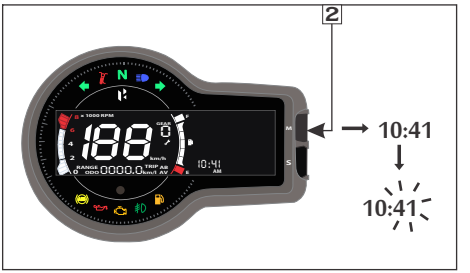
(1) Digital clock **(2) Mode button**
(3) Set button

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



(3) Set button

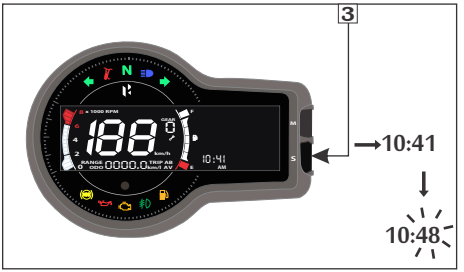
- Press the mode button (2). The minutes display starts blinking.



(2) Mode button

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

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



(3) Set button

- To end the adjustment press the mode button (2) until clock display stops blinking.

NOTE

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

(b) Odometer/Tripmeter

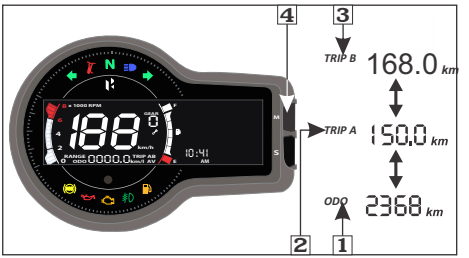
The odometer (1) shows accumulated distance travelled.

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

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

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

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

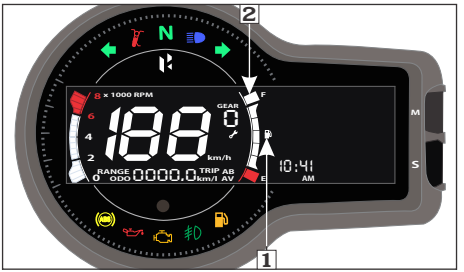


(1) Odometer **(2) Tripmeter-A**
(3) Tripmeter-B **(4) Mode button**

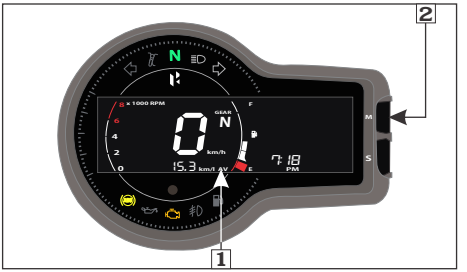
(c) Fuel gauge

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 13.5 litres.



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



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

(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).

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.

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

NOTE

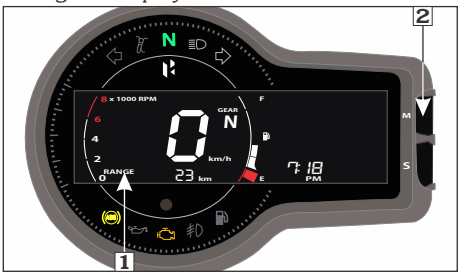
After getting the vehicle serviced, make sure that the service reminder indicator has been reset.



(1) Service reminder indicator

(f) DTE (Distance to empty)

Distance to empty indicator "Range" (1) shows how many kilometres are left before the complete fuel is consumed in the fuel tank during riding. Press the mode button (2) until "Range" is displayed.



(1) Distance to empty (DTE) (2) Mode button

NOTE

In low fuel condition, DTE will show "---".

(g) Appearance

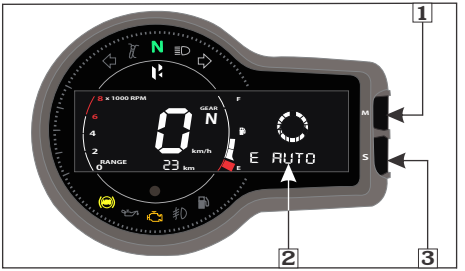
Appearance feature allows the user to adjust the brightness level of the LCD display and headlamp **(page 41)**.

Operation: To change the appearance modes (day, night and auto), follow the below procedure:

- Turn the ignition switch "ON".
- Press the mode button (1) to select odometer.
- Long press (2 sec or more) the mode button (1) to enter into the appearance selection screen (2).
- Information will be display in navigation segment area.
- Press the set button (3) to change the appearance mode.
- Press the mode button (1) to select the appearance and appearance selection screen will be disappear.
- While existing from the appearance selection screen (2), the selected appearance will blink 3 time.

NOTE

- ***Appearance selection screen will only appear from odometer screen.***
- ***The default appearance will be the last selected appearance when ignition switch is "ON".***
- ***The appearance will reset to "Auto mode" if the battery is re-connected.***
- ***Appearance selection screen will disappear in 5 second if no changes is been done.***



(1) Mode button
(2) Appearance selection screen
(3) Set button

LCD back light brightness based on selected appearance mode:

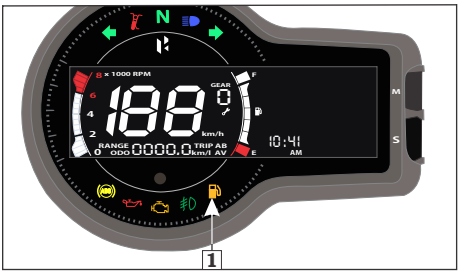
- Day Mode: Brightness increases.
- Night Mode: Brightness reduces.
- Auto Mode: Brightness automatically changes as per the ambient sensor (sensing the amount of ambient/surrounding light present) located in meter-console.

Headlamp brightness based on selected appearance mode:

For headlamp brightness based on auto, night and day mode, refer **"headlamp dimmer/ pass switch"** topic **(page 41)**.

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.

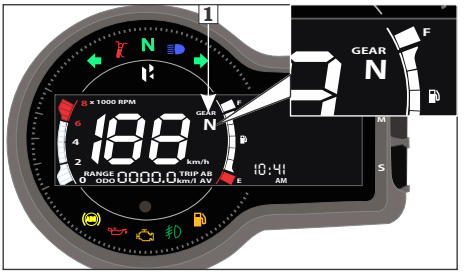
NOTE

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

FEATURES

(a) Gear indicator

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



(1) Gear indicator

NOTE

- ***Gear indicator displays "N" when your vehicle is in neutral.***
- ***Gear indicator displays "-" when gear is stuck between 2 gears or when you change gears in vehicle static condition (vehicle is in main stand (optional) and ignition switch is in "ON" position).***

(b) Hero App

Application:

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

To connect your device proceed as follows:

- Open Hero App on your smartphone.
- Application asks the user to login (1) using registered mobile number.
- Now user will receive the 6-digit OTP on registered mobile number.
- User required to enter the 6-digit OTP (2) and verify.



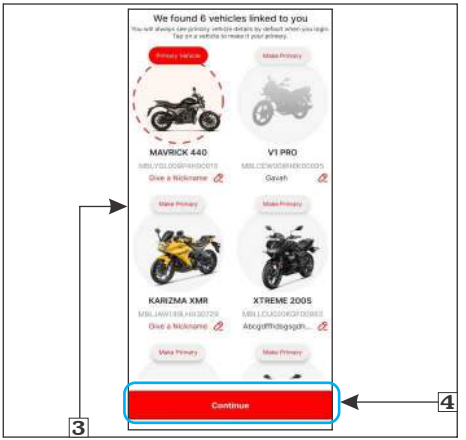
(1) Login **(2) Enter OTP**

NOTE

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

- After successful verification, select vehicle screen (3) will be replicated on mobile screen. Tap on the vehicle image to continue.

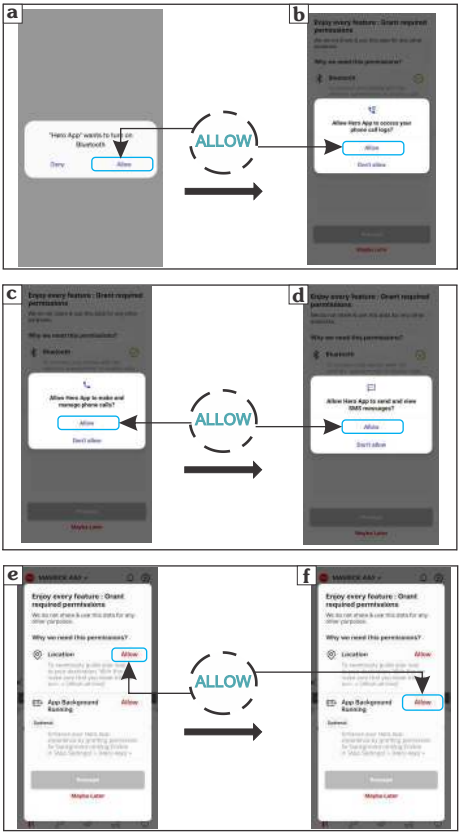
• Select the vehicle and click on “Continue” (4).



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

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

a. Bluetooth connectivity.
b. Phone call logs on your device.
c. Make and manage phone calls
d. Send and view SMS messages.
e. Device location if GPS not enabled in your device, Nearby device permission.
f. App background running.

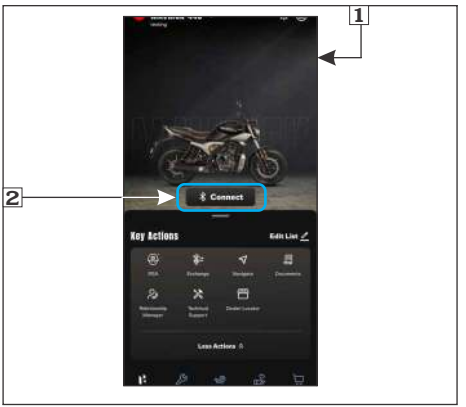


Bluetooth (Groove & Glide variant):

Your vehicle is equipped with bluetooth connectivity feature by which you can pair your smartphone with the meter console of your **MAVRICK 440** vehicle through Hero App.

After successful login to Hero App **(page 25)** To connect your device to bluetooth proceed as follows:

- After selecting the vehicle, user can view the Dashboard (1) with Connect button visible.
- After clicking on 'Connect' (2).



(1) Dashboard **(2) Connect**

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



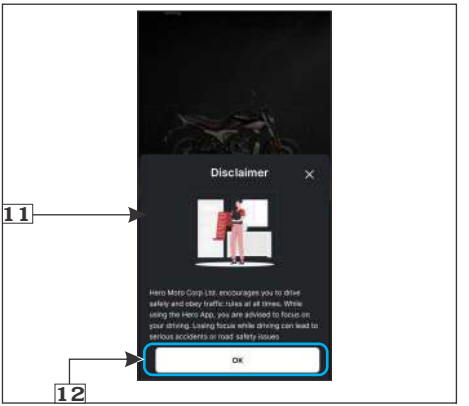
(3) Bluetooth searching screen
(4) Select the device
(5) Update your name
(6) Save and connect
(7) Connect

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



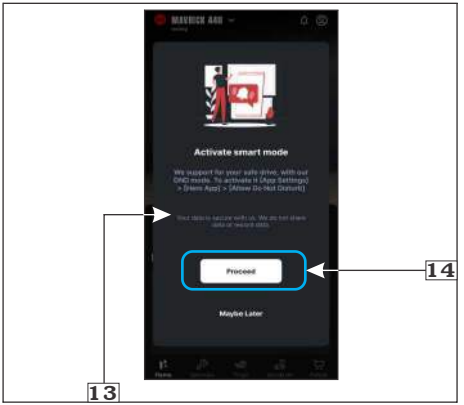
(8) Pairing request notification
(9) Pin **(10) “Pair”**

- Disclaimer popup (11) instruction will show, click on “Ok” (12) to dismiss the popup.



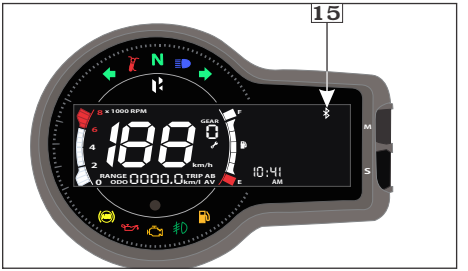
(11) Disclaimer popup
(12) Ok

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



(13) Smart mode permission
(14) Proceed

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



(15) Bluetooth symbol

Autopairing

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

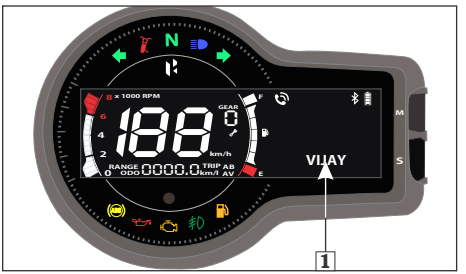
NOTE

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

Various features of Hero App are as follows:

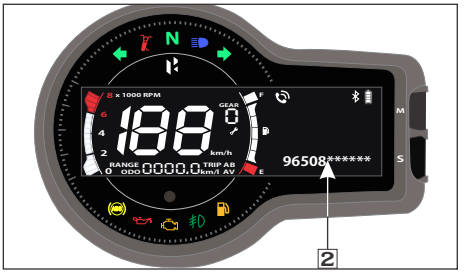
- **Incoming call alert**

When smartphone is paired with Hero App **(page 25)**, then you will get all the incoming calls alerts (1) 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"(1).



(1) Incoming call alert by name

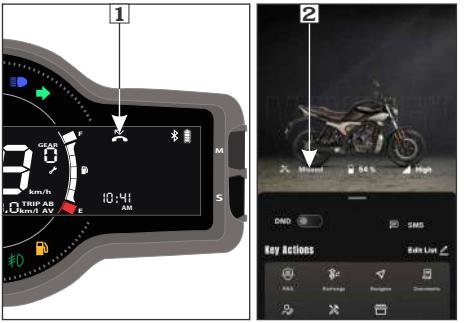
If the number is not saved in your device by name, then it will display caller number (2).
If your device is an iOS, then it will display "unknown".



(2) Caller number

- **Missed call alert**

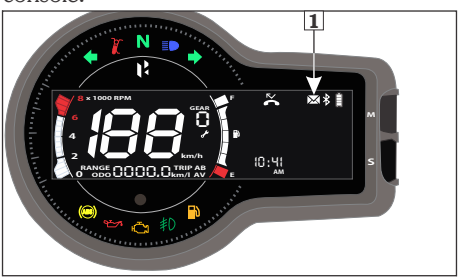
When your smartphone is paired with Hero App **(page 25)**, then you will get all the missed calls alerts (1) on the meter console.
In dashboard of Hero App (2) it will show missed call count (Groove & Glide variant).



(1) Missed call alert on meter console
(2) Missed call count on Hero App

- **Message alert**

When your smartphone (android) is paired with the Hero App **(page 25)**, then you will get all the message alerts (1) on the meter console.



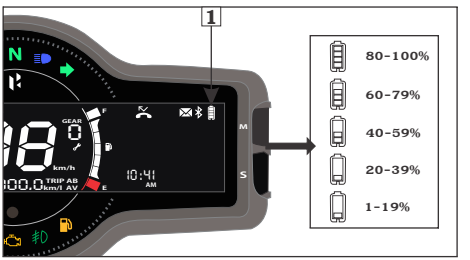
(1) Message alert on meter console

- **Phone battery status**

When your smartphone is paired with the Hero App **(page 25)**, then it will display phone battery status (1) of your smartphone on the meter console.

In meter console:

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



(1) Phone battery status on meter console

In dashboard of Hero App (Groove & Glide variant):

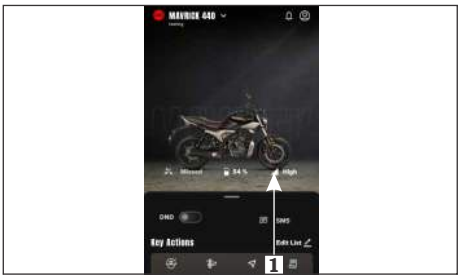
Battery status will display in % (2).



(2) Phone battery status on Hero App

- **Phone network strength (Groove & Glide variant)**

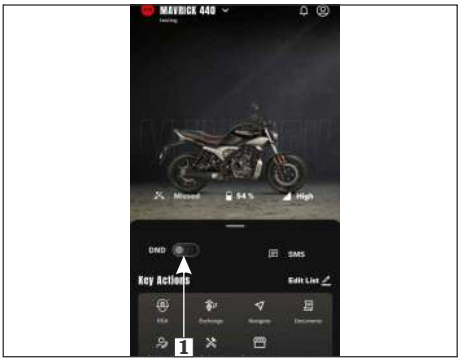
When your smartphone is paired with the Hero App **(page 25)**, then you will display phone network strength (1) in dashboard of Hero App.



(1) Phone network strength on Hero App

- **Do not disturb (DND) mode (Groove & Glide variant)**

When your smartphone is paired with the meter console of your vehicle via bluetooth **(page 28)**, then you can switch "ON" the DND mode (android) (1) in which your smartphone will be on vibrate mode and if you receive any call and SMS will be trigger and sent to the person who is calling stating **"I'm riding bike, Please call me later"**.



(1) DND mode on Hero App

- **Navigation:**

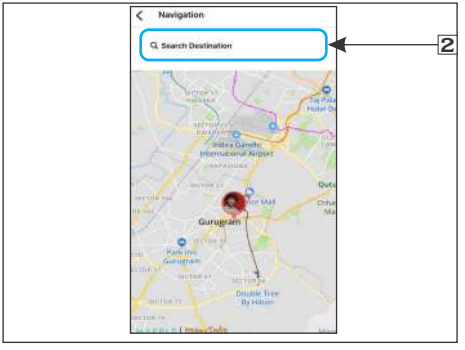
To use navigation feature proceed as follows:

- Open the Hero App **(page 25).**
- Click on navigation (1) in the dashboard of Hero App.



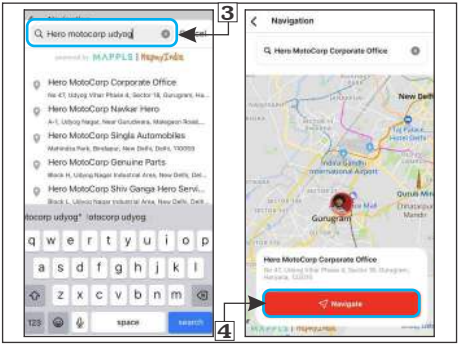
(1) Navigate on Hero App

- User will search the destination (2) on the Hero App.



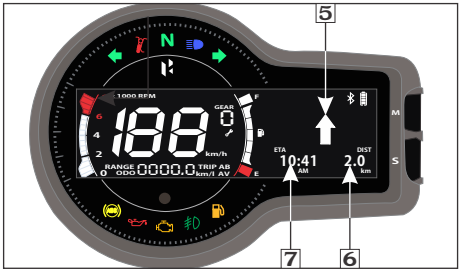
(2) Search the destination

- Application shows the search result (3) of the addresses, User can select the address to find and check the route.
- Once route found user have to click on 'Navigate' (4) and the route suggestion will show in the map.



(3) Search result **(4) Navigate**

- Now user can view the turn by turn navigation on meter console of the vehicle.
- After clicking on navigate, meter console will display the direction (5), distance for next move (6) and estimated time of arrival (ETA) (7). Estimated time of arrival will be displayed in "am"or "pm". Hero App and meter console of your vehicle will display step by step navigation guidance/direction through navigation signs **(page 99).**



(5) Direction
(6) Distance for next move **(7) ETA**

NOTE

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

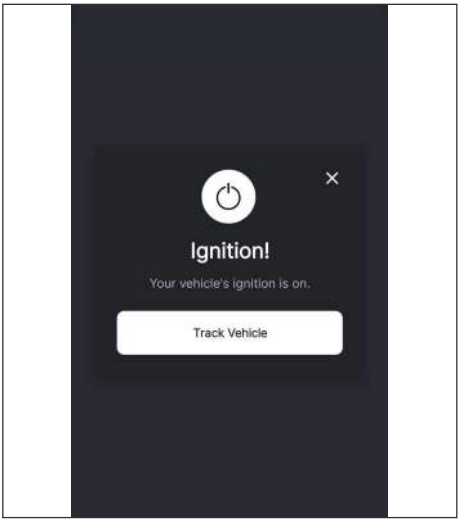
WARNING

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

Various features of Hero App (Phantom/ Enigma variant) are as follows:

• Ignition "ON/OFF" alert:

1) Ignition "ON" alert: Whenever the vehicle ignition is "ON" by the user, Hero App will show pop-up in 45 seconds in good network condition. If the network is not good, TCU may take more than 45 seconds to come online and to send ignition "ON" alert pop up. TCU functionality depends on TCU network.



TCU is in ignition "ON" mode, when the vehicle ignition is "ON". TCU will remain in ignition "ON" mode until the ignition switch of the vehicle is turned "OFF".

2) Ignition "OFF" alert: As soon as the vehicle ignition is switched "OFF" by the user, TCU initiate to enter into the sleep mode. However, TCU waits for 15 seconds before initiating the sleep mode after switching "OFF" the vehicle. In case, if the ignition is switched "ON" again within 15 seconds than the TCU will not initiate the sleep mode. Once TCU enters sleep mode, its status is shown as ignition "OFF" on Hero App. Usually TCU takes 2 minutes to enter sleep mode. However, in bad network condition TCU may take up to 4 minutes to enter sleep.

- **Device unplugged alert:**

Device unplugged alert pop-up is shown in the Hero App, whenever the TCU power connector is disconnected or aux battery is removed from the vehicle during its ignition "OFF" condition. When the TCU external power supply is disconnected than it enters to internal battery mode and sends unplugged alert to the Hero App. There are following requirements for device unplugged detection:

- TCU battery should be fully charged.
- If the above point does not meet than TCU battery should have enough charging to connect with the server.

NOTE

At complete discharge state of TCU battery. TCU takes minimum 2 hours to charge the battery to a level where it has enough charge to connect with the server for sending the alert pop-up.

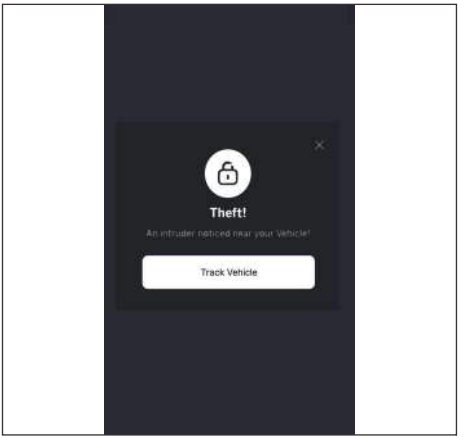
There are following timing events for TCU internal battery mode:

- When the TCU is activated, it takes less than 15 seconds to send the unplug alert.
- When the TCU is in sleep mode, it takes nearly 45 seconds for the unplug alert to be sent.
- TCU may take some time for the unplug alert to be sent when the network is not good.
- TCU enables internal battery charging only when vehicle ignition is "ON".
- TCU battery lasts up to 2 hours when it is fully charged.
- TCU takes nearly 6 hours to fully charge the internal battery.

In case if TCU SIM supports dual operator, battery backup may be less as supporting dual operator requires more power in low or no network condition. GSM modem consumes more power while latching between two different supported networks.

• **Towing/Theft detection:**

Towing or theft mode detection only works when the ignition of the vehicle is "OFF". To enter tow mode, the vehicle must be at least 100 meters from where it was last stopped or parked by the user.

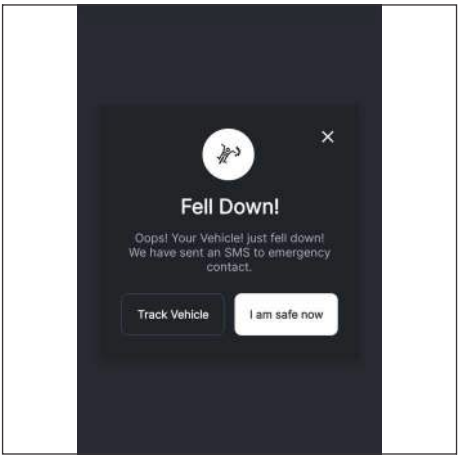


• **Fall-Down/Topple Detection:**

TCU has vehicle toppled/fall-down detection feature. When the vehicle is tilted beyond the limit and fallen down than immediately after 15-20 seconds an alert will send to the selected person along with the user location. Buzzer noise will be activated continuously at vehicle topple detection.

There are the following preconditions for the topple detection:

- Vehicle tilt angle should be more than 50° from its default standing position
- Vehicle must remain in topple position for at least 5 seconds.
- Vehicle speed must be less than 6 km/h and GPS signal must be available.
- Vehicle topple detection will be activated at both ignition "ON" & ignition "OFF" mode.



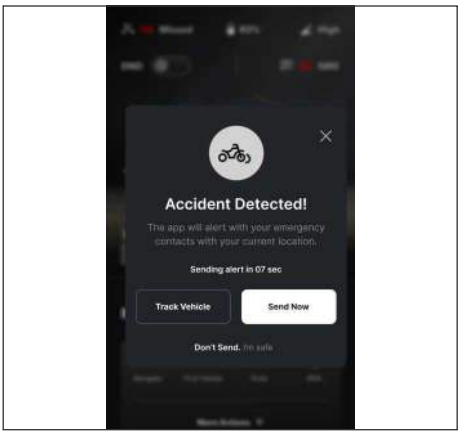
Once the vehicle is tilted more than 50° and topple is generated than it will not generate again till vehicle comes back to its normal position for at least 3 to 4 seconds.

• **Accident Detection:**

TCU has vehicle accident detection feature. When the vehicle encounters an accident than the device sends last known vehicle location and accident alert to your emergency contact. Buzzer noise will be activated continuously at vehicle accident detection.

There are following preconditions for accident detection:

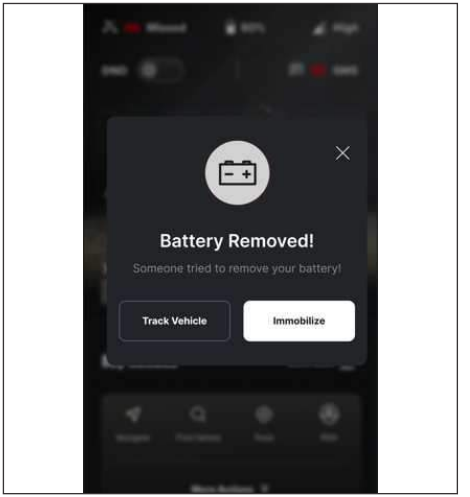
- Vehicle topple angle should be more than 50° from its default standing position.
- Vehicle must remain in topple position for at least 5 seconds.
- Vehicle speed must more than 6 km/h for 10+ seconds before detecting topple.



Once accident detection is generated then it will generate next alert only after turning the ignition switch to "OFF"position and then back to "ON" position and vehicle comes back to normal position.

• **Low battery alert:**

TCU will send low battery or battery remove alert, when the auxiliary battery voltage goes below 12.4 V.



• **SOS alert:**

SOS alert is the safety feature. SOS alert will be initiated only when the vehicle ignition is "ON". Once the SOS alert switch is pressed, the Hero App will alert the rider's emergency contact saved in application along with the rider's current location **(page 45)**.



• **Track log/Trip Records:**

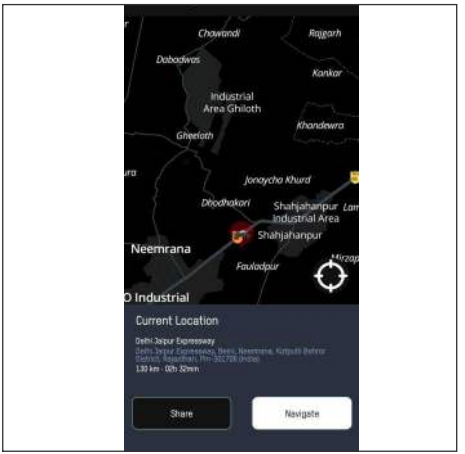
During every trip, the trip data like distance travelled, drive time, top speed, average speed and driving score are stored in the TCU as track data, which is then uploaded to the cloud once the trip is ended. Based on how rider is riding the vehicle, driving score of the user is generated.

Trip is created during a valid ignition "ON" and "OFF" cycle. Hero App server keeps record of last 12 months of data received from TCU. All trip data for last 6 months can be seen in the trip section.



• **Live Tracking:**

When vehicle ignition is turned "ON", TCU sends live GPS location to server and user can view these locations on Hero App.

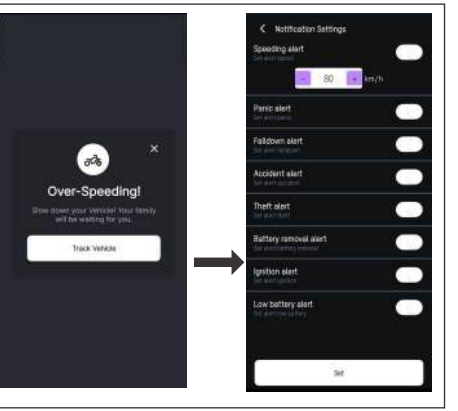


• **Vehicle Over-Speed Alert:**

TCU sends vehicle speed alert whenever vehicle crosses speed limit configured by the user in Hero App. Speed alert can be configured by the user using the application.

There are following speed limits which can be configured by the user:

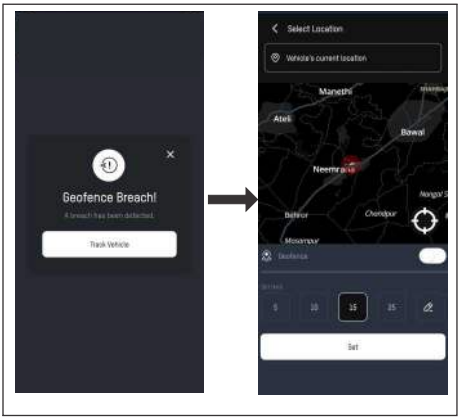
- Minimum: 40 Km/h
- Maximum: 120 km/h
- Default: 80 km/h



• **Vehicle Geofence Alert**

TCU supports geofence alerts. Geofence responds when the vehicle enters or leaves the particular area. Once the user configures geofence alert, user will get geofence breach alert on Hero App whenever the vehicle breaches the geofence. Geofence breach alert will be shown in alert section.

The geofence range can be changed as per the user requirement in the Hero App.



- **TCU Firmware over-the-air (FOTA)**

FOTA is a secure mechanism to update TCU's firmware, hereby enabling remote bug fixing and introducing new features to the device. User will be notified whenever a new firmware of TCU is available for the vehicle.

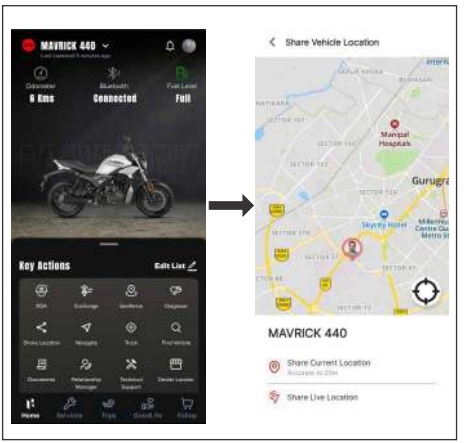
After successfully firmware downloading and validation, server will request to user to confirm the firmware update and start the firmware update in the TCU.

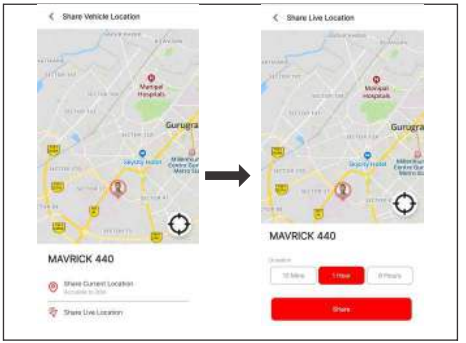
- **Find my Vehicle (via Bluetooth)**

User can connect the phone to TCU via Bluetooth. After successful connection Hero App will show status as "Connected" with Bluetooth icon. Once connected, user can trigger "Find my vehicle", it will play three beep.

- **Share location**

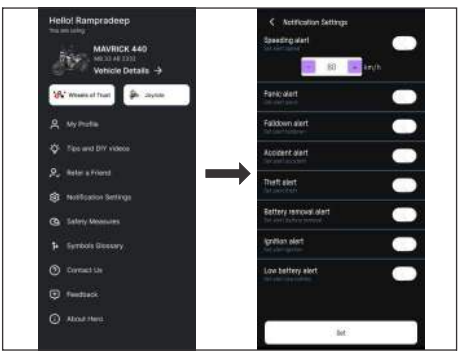
When vehicle ignition is turned "ON", TCU sends live GPS location to server, so that we can share the live location and current location. Sharing live location duration can be configured by 15 minutes, 1 hour and 8 hours.





- **Notifications and alerts ON/OFF settings.**

User can set the notification alerts through "notifications settings" in the Hero App as shown below.



(c) 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

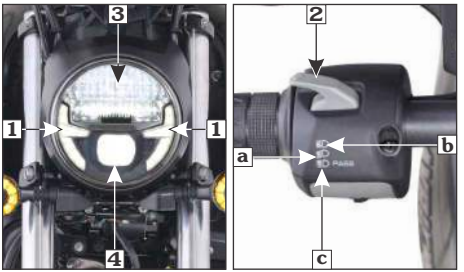
HANDLEBAR SWITCHES CONTROL

Left handlebar controls

1. Headlamp dimmer/pass switch

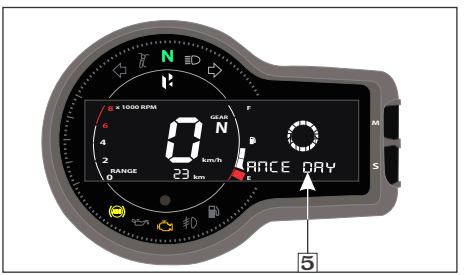
Headlamp is equipped with a day time running lamp (DRL) to enhance the day light time visibility of the vehicle to other road users.

Headlamp dimmer/pass switch (2) has three positions. The three positions of headlamp dimmer/pass switch " ", " " and " PASS " function differently based on day, night and auto mode as follows:



(1) Position lamp/Daytime running lamp (DRL)
(2) Headlamp dimmer/pass switch
(3) Low beam **(4) High beam**
(a) **(b)** **(c) PASS**

i) When appearance is set to day mode (5) (page 23).



(5) Day mode

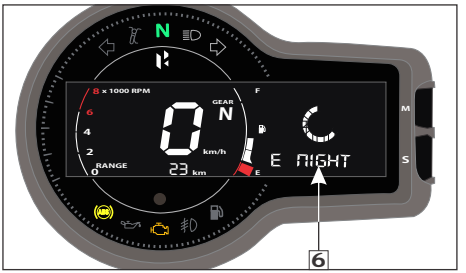
When the ignition switch is turned "ON", the position lamp will illuminate.
Once the engine is turned "ON" and the headlamp dimmer/pass switch is set to "" (a) position, the DRL (1) will illuminate.
- DRL will be "ON".
- High beam will be "OFF".
- Low beam will be "OFF".

In engine running condition, when the headlamp dimmer/pass switch is set to "" (b) position, the DRL (1) will illuminate.
- DRL will be "ON".
- High beam will be "OFF".
- Low beam will be "OFF".

PASS

In engine running condition, when headlamp dimmer/pass switch "**PASS**", (c) position is pressed:
- High beam (4) will be "ON" till the time it is pressed.
- Low beam (3) will be "ON" till the time it is pressed.
- DRL (1) will be "ON".

ii) When appearance is set to night mode (6) (page 23).



(6) Night mode

In engine running condition, when headlamp dimmer/pass switch is set to "" (a) position. low beam (3) and position lamp (1) will be "ON".

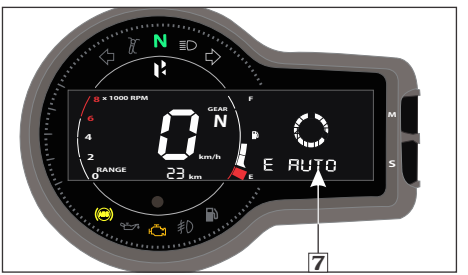
In engine running condition, when headlamp dimmer/pass switch is set to " " (b) position. High beam (4), low beam (3) and position lamp (1) will be "ON".

PASS

In engine running condition, when headlamp dimmer/pass switch "PASS", (c) position is pressed:

- High beam (4) will be "ON" till the time it is pressed.
- Low beam (3) will be "ON".
- Position lamp (1) will be "ON".

iii) When appearance is set to auto mode (7) (page 23).



(7) Auto mode

Once the appearance is in auto mode, headlamp illuminates as per the lighting condition around the vehicle.

⚠ WARNING

It is recommended to use the dimmer/pass switch positions " ", " ", " PASS " and day/auto/night modes as per the visibility, road and traffic conditions.

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).



(2) Turn signal switch **(3) Horn switch**

4. Clutch switch

There is a clutch switch (4) 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.



(4) Clutch switch

Right handlebar controls

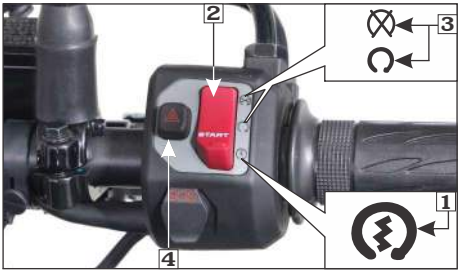
1. Integrated start-kill switch

(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.

CAUTION

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



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

(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.).

2. Hazard switch ( )

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

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

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

NOTE

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

3. SOS alert/Panic switch (Phantom/Enigma variant)

SOS alert or Panic switch (1) is a safety feature which is provided to send a text notification along with the rider's current location to his/her emergency contact person during any incident. In this way, it reduces the emergency response time for the arrival of the

responder to the rider's location. SOS alert switch is provided on the right handlebar.

In case of any emergency (For e.g., accident, vehicle toppled, etc.), the user can open the SOS flap (2) and press the SOS alert/panic switch, in ignition "ON" (⏻) condition.

NOTE

SOS alert initiates only when the vehicle's ignition is "ON" (⏻).



1. SOS alert/Panic switch 2. SOS Flap

Once the SOS alert switch is pressed, the Hero App will alert the rider's emergency contact saved in application along with the rider's current location.

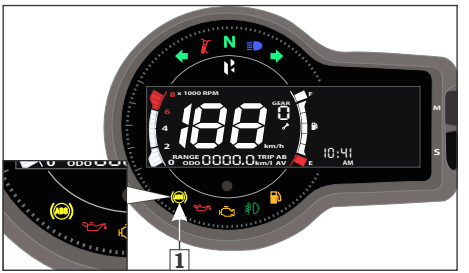
Before initiating SOS alert, the user should be aware of the following points:

- SOS alert will be activated only when the SOS switch is pressed by the user for more than 3 seconds. Additionally, the buzzer will activate with one beep.
- The SOS alert can be disabled within 10 seconds of the SOS switch press event, if the SOS button is pressed twice within 3 seconds.
- The SOS alert status can be cleared by switching off the ignition of the vehicle.

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.

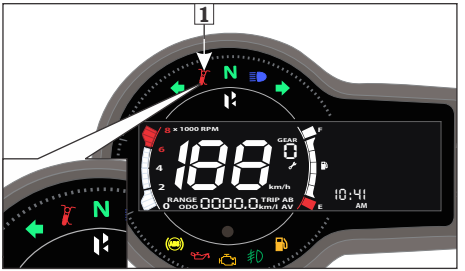


(1) ABS indicator

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" (Ω)), 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

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

Does engine start? — **NO** → **Visit Authorised Hero MotoCorp Workshop**

YES

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

Does engine stop? — **NO** → **Visit Authorised Hero MotoCorp Workshop**

YES

3. Now press the electric starter ( ) of integrated start-kill switch (After engine has stopped).

Does engine start? — **YES** → **Visit Authorised Hero MotoCorp Workshop**

NO

SYSTEM IS OK

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

⚠ WARNING

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

FUEL

(a) Fuel tank

Fuel tank capacity is 13.5 litres (Be sure to fill the fuel tank when low fuel indicator glows).

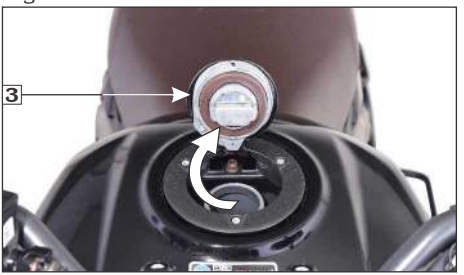
- To unlock fuel tank cap, lift the key hole cover (1), insert key (2) turn it clockwise and lift open the cap (3).



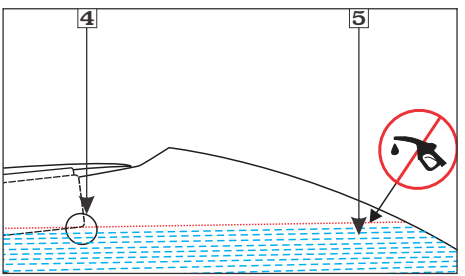
(1) Key hole cover **(2) Ignition key**

- 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.

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

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

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



(1) E20 sticker (2) Fuel tank

! CAUTION

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.



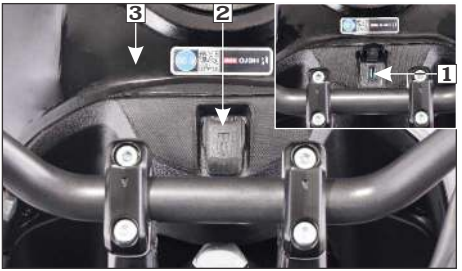
(1) Ignition key

USB CHARGER

A USB charger (1) with a cap (2) mounted near fuel tank (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) Fuel tank

! CAUTION

- ***Always place the device in a safe and secure condition 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 66).** Check for leaks.
- **Malfunction indicator lamp (MIL)–** When the ignition switch is turned "ON" the 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. Check for leaks.
- **Low fuel indicator–**Vehicle should not be operated with low fuel indicator glowing continuously **(page 24)**.
- **Front brake–**Check for correct brake fluid level in master cylinder/reservoir **(page 76).**
- **ABS indicator–**Check ABS indicator for proper functioning of ABS **(page 46).**
- **Rear brake–**Check for correct brake fluid level in the reservoir **(page 77).**
- **Tyres–**Check condition and pressure **(page 83/86).**
- **Clutch–**Check for smooth operation. Adjust free play if necessary **(page 71).**
- **Drive chain–**Check condition and slackness **(page 72).** Lubricate if necessary.
- **Throttle–**Check for smooth opening and closing in all steering positions **(page 72)**.
- **Suspension:** Inspect for leakage or any damage before starting the ride and clean the fork pipes if required.
- **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 44)**.
- **Fitting & Fasteners–**Check & tighten if necessary.
- **Steering–**Check for smooth action and for easy maneuverability.
- **Side stand–**Check for proper functionality **(page 47).**

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 48).***

NOTE

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

Preparation

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

- Turn the ignition switch (1) "ON" position.
- Confirm that the malfunction indicator lamp (MIL) (2) glows continuously and then should go "OFF" once the engine is started.



(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" (Ω) position.



(4) Integrated start-kill switch

- Press the electric starter (🔘) of integrated start-kill switch with fully closed throttle.

! 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

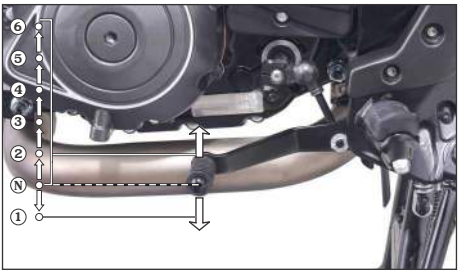
- ***To start the engine if any gear is engaged, press the clutch lever and press the integrated start-kill switch.***
- ***Do not open the throttle during starting the vehicle.***

WARNING

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

RIDING

- Excessive revving of 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, 5th and 6th 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 a Dual-channel ABS which enhances active safety by helping to prevent both the wheels from locking during braking.

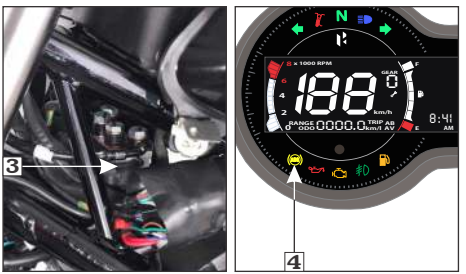
ABS is designed to meet two essential requirements during every brake application:

- 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 provided ABS indicator lamp is "OFF" on the meter console.



(1) Wheel speed sensor (Front wheel)
(2) Wheel speed sensor (Rear wheel)



(3) Hydraulic electronic control unit (HECU)
(4) ABS indicator

- The ABS controller acts on the basis of the comparative speeds of the wheels. 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 on both the wheels (1) & (2), a hydraulic electronic control unit (HECU) (3), and an ABS indicator lamp (4) on meter console.

Whenever you ride your vehicle, **Wheel speed sensor** generates the rotation of wheel signal to **Hydraulic electronic control unit (HECU)**. Then HECU calculates the speed of the wheel & vehicle, HECU becomes active when vehicle speed exceeds 5 km/h.

Now whenever you will apply front or rear brake, ABS will come into picture based on the input from respective wheel speed sensor, if wheel is getting locked, HECU will modulate the pressure at respective caliper thus avoiding wheel to lock and in turn resulting in 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.
- Rider is recommended not to ride at high speed when the brakes get wet. If brake gets wet, apply the brake while riding at low speed until the brakes are 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 8).**
- 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 by 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.***

⚠ WARNING

- ***During extreme riding conditons, sometimes it is not possible to balance the vehicle (example- luggage loaded with higher center of gravity, varying road surfaces, hard braking without disengaging the gear).***
- ***Adapt your riding style to the road conditions and your riding ability as well.***

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

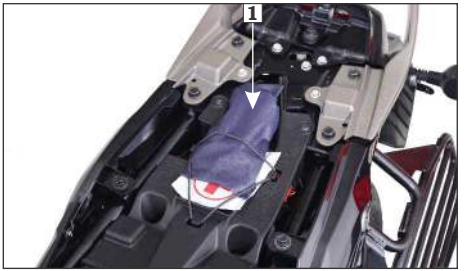
- ***Park the vehicle on firm level ground to prevent overturning.***
- ***While parking on side stand engage the first gear.***

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.

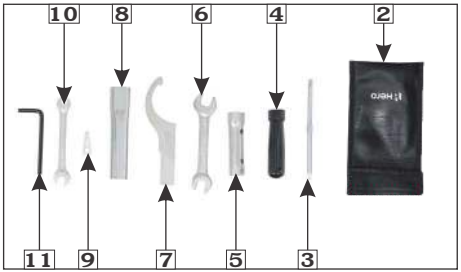
Kit consists of following tool:

- **Tool bag (2) -**To keep all the tool in one place.
- **+, - No. 2 Driver (3) -**To tighten/loosen the screw.
- **Grip (4)-** To hold the +, - No. 2 Driver.



(1) Tool kit

- **Box wrench P16x14 (5)-**To loosen/tighten the spark plug.
- **Spanner 12-14 mm (6)-**For clutch cable adjustment and mirror adjustment.
- **Pin spanner (7)-**To adjust the pre load of rear shock absorber.
- **Handle pin spanner (8)-**To hold the pin spanner.
- **Fuse puller (9)-**To remove the fuse from the vehicle.
- **Spanner 8-10 mm (10)-**For throttle cable free play adjustment
- **Allen key 5 mm (11)-**For seat, battery cover and frame cover removal.

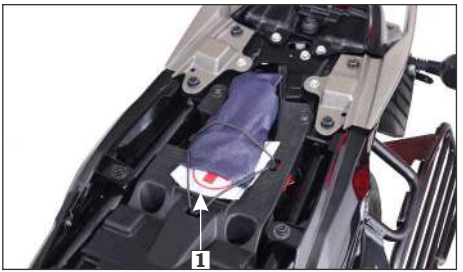


(2) Tool bag
(3) +, - No. 2 Driver
(4) Grip
(5) Box wrench P16x14
(6) Spanner 12-14 mm
(7) Pin spanner
(8) Handle pin spanner
(9) Fuse puller
(10) Spanner 8-10 mm
(11) Allen key 5 mm

FIRST AID KIT

The first aid kit (1) is located below 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.
- Hemostatic agent-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.

⚠ WARNING

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

NOTE

- ***Our Authorized dealerships take all above mentioned precautions like usage of recommended detergents to ensure quality wash.***
- ***While washing the vehicle, it is recommended to take necessary precaution to avoid damage to oil cooler and water entry into muffler.***

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 51)** at each scheduled maintenance period.

I: INSPECT C: CLEAN R: REPLACE A: ADJUST (IF REQUIRED) 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 Authorized Hero MotoCorp workshop meets all of these requirements.

Ensure that each paid service is availed within **12 months** or **10000 km** from the date of previous service, whichever is earlier.

To be serviced by your Authorized Hero MotoCorp 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 Authorized 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 once in every **10000** km. Top up if the oil level is at or near the lower level mark.

Note-4 : Strainer cleaning has to be ensured at defined frequency at 1st Service and all service at **10000** km frequency.
Engine oil filter to replaced at 1st Service and in every **10000** km.

Note-5 : Visit Authorized Hero MotoCorp workshop for inspection, cleaning, lubrication and adjustment of drive chain at every **1000** km or as required.

Note-6 : Replace brake fluid once in every two years or **30000** km, whichever is earlier.

Note-7 : Inspect & maintain specified torque.

Note-8 : Inspect the bearings free play, replace if necessary.

Note-9 : Visit Authorized dealer for inspection, cleaning and adjustment spoke or when required. Replace tyre as per TWI.

Note-10 : Replace rubber washer once in every 2 years or **10000** km.

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

Note-12 : Inspect rear suspension mounting bushes play, replace rear shock absorber if necessary.

Note-13 : Check CO emission at idle, to be followed Govt. regulation (PUC).

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

Note-15 : Clean the Magnetic Drain Plug bolt tip in every **10000** km/during oil change/oil replace if any 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.

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

MAINTENANCE SCHEDULE

Dear Customer,

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

	ITEMS	WHICHEVER COMES FIRST	#DURING FREE SERVICE PERIOD			DURING PAID SERVICE PERIOD ONCE IN EVERY 10000 KM/ 12 MONTHS
		SERVICE	1st	2nd	3rd	
		DAYS	1st 60	6 Months	12 Months	
		KM Note-1	500-750	5000	10000	10000
	Fuel Line		I	I	I	I
✎	Throttle Operation		I, A	I, A	I, A	I, A
✎	Air Cleaner Element	Note-2	I	I	R	R
	Spark Plug		I, C, A	I, C, A	R	R
✂	Valve Clearance		I, A	I, A	I, A	I, A
	Engine Oil	Note-3	R	I, T	R	R
✂	Engine Oil Strainer Screen	Note-4	C		C	C
✂	Engine Oil Filter	Note-4	R		R	R
✎	Engine Oil Cooler		I	I	I	I
	Electric Starter		I	I	I	I
	Oil Circulation		I	I	I	I
✂	Drive Chain	Note-5	I, C, L, A at every 1000 km or early as required			
	Drive Chain Slider		I	I	I	I
	Battery Voltage		I	I	I	I
	Brake Shoe/Pad Wear		I	I	I	I

ITEMS		WHICHEVER COMES FIRST	#DURING FREE SERVICE PERIOD			DURING PAID SERVICE PERIOD ONCE IN EVERY 10000 KM/ 12 MONTHS
		SERVICE	1st	2nd	3rd	
		DAYS	1st 60	6 Months	12 Months	
		KM Note-1	500-750	5000	10000	10000
✂	Brake System & Brake Pedal Pivot		I, C, L	I, C, L	I, C, L	I, C, L
	Brake Fluid	Note-6	I	I	I	I
✂	Stop Lamp Switch		I	I	I	I
✂	Headlamp Focus		I, A	I, A	I, A	I, A
	Clutch Free play		I, A	I, A	I, A	I, A
	Side Stand/Main Stand (optional)		L	L	L	L
	Side Stand Switch		I, C	I, C	I, C	I, C
🔧	Nut, Bolts & Fasteners (grommets and dampers)	Note-7	I	I	I, R (If required)	I, R (If required)
✂	Wheels & Flange bearings	Note-8	I	I	I	I
✂	Wheels cast	Note-9	I	I	I	I
✂	Wheel spoke (Spoke variant)	Note-9	I	I, C, A	I, C, A	I, C, A
✂	Tyre	Note-9	I	I	I	I
✂	Steering Head Bearing	Note-10	I	I, A	I, L, A	I, L, A
✂	Front Suspension/Oil	Note-11	I	I	I	I
🔧	Rear suspension	Note-12	I	I	I	I
✂	Muffler (Catalytic Converter)	Note-13		I, E	I, E	I, E
🔧	Evaporative Emission Control System	Note-14	I	I	I	I
✂	Magnetic Drain Plug bolt tip	Note-15	C		C	C
✂	Fuel Filter (External)				R	R

SPARK PLUG INSPECTION

Recommended plugs:

Federal Mogul REK6YC

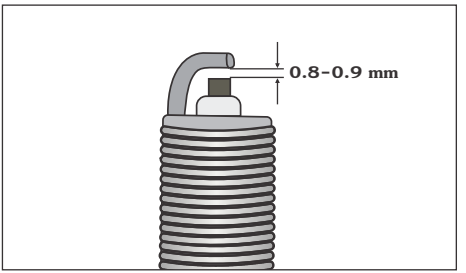
For most riding conditions this spark plug heat range number is satisfactory. However, if the vehicle is going to be operated for extended periods at high speeds or near maximum power in hot climates, the spark plug should be changed to a cold heat range number, consult Authorised Hero MotoCorp workshop 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: 100% Synthetic SAE 15W 50

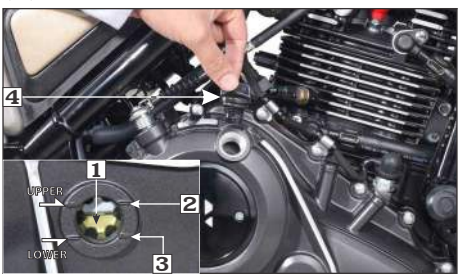
Manufactured by (recommended):

- Indian Oil Corporation Limited.
- Savita Oil Technologies Limited.

OIL CAPACITY : 2.6 litres (at disassembly)
: 2.25 litres (at draining)

Engine oil level inspection/
Top up process

Check engine oil level each day before operating the vehicle. The oil level window (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 window.



(1) Oil level dipstick (2) Upper level mark
(3) Lower level mark (4) Oil filler cap

Add the specified oil by removing the oil filler cap (4) and filling till the upper level mark (2). Do not overfill.

- Do top up if oil level reaches towards the lower level mark or every 5000 km whichever is earlier.
- Park the vehicle on its main stand (optional).
- Start the engine & let it idle for 3-5 minutes.
- Slightly loosen the engine oil check bolt (5) and check the engine oil entry into the cylinder head.



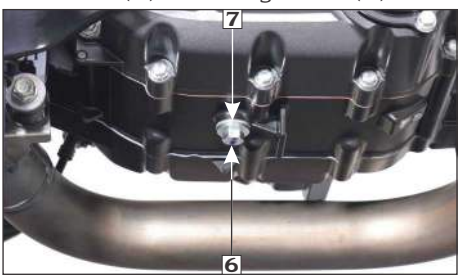
(5) Engine oil check bolt

- After checking the oil circulation, tighten the engine oil check bolt.
- Stop the engine and wait for 2-3 minutes.
- Check the oil level in the oil level window.
- If required, add the specified oil up to the upper level mark. Do not overfill.

• Reinstall oil filler cap 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 minutes until the oil settles down.
• To drain the oil, remove the oil filler cap, drain bolt (6) and sealing washer (7).



(6) Drain bolt (7) Sealing washer

• After the oil is completely drained, reinstall the drain bolt (6) with a new sealing washer (7).
• Fill the crankcase through the oil filler hole with 2.25 litres (approximately) of the recommended grade oil as the right crankcase cover is not removed.
• Reinstall the oil level filler cap with a new O-ring.
• Start the engine and allow it to idle for few minutes.
• Stop the engine and let the engine oil settle down.
• Recheck the oil level.
• Make sure that oil level is at the "UPPER" level mark of the oil level window with the vehicle in an upright position and that there are no oil leaks.

! CAUTION

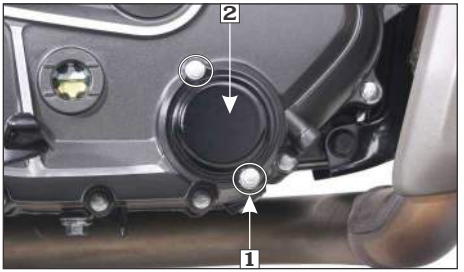
- ***Engine oil is a major factor affecting the performance and service life of the engine. Non-detergent, vegetable or castor based racing oils are not recommended.***
- ***Running the engine with insufficient oil can cause serious engine damage.***
- ***Running the engine with excessive oil can cause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

ENGINE OIL FILTER ELEMENT

NOTE

Drain the engine oil thoroughly (page 64) in case of engine oil filter element replacement.

• Remove the two mounting bolts (1).
• Remove the engine oil filter element cover (2) with O-ring (3).



(1) Mounting bolts
(2) Engine oil filter element cover

- Remove the engine oil filter element (4) from the cover.



(3) O-ring **(4) Engine oil filter element**

- Replace the engine oil filter element (4).



(4) Engine oil filter element

NOTE

- ***When the engine oil filter element is replaced always replace the O-ring with the new one.***
- ***Make sure that O-ring is properly seated.***
- ***Apply engine oil on engine oil filter element before installation.***
- ***Inspect and replace engine oil filter element as specified in the maintenance schedule.***

- Installation is in the reverse order of removal.

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 61)**.

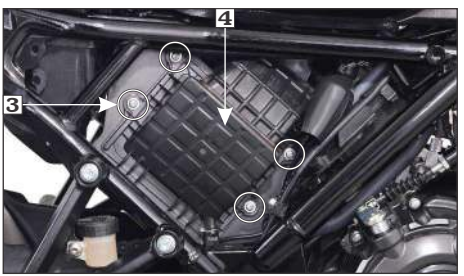
The air cleaner element is of wet paper pleated type, it should be serviced at specified intervals **(page 62)**. Service more frequently when riding in unusually wet or dusty areas.

- Remove the right side cover allen key screws (1) and side cover (2) by reales the lug from the grommet.



(1) Right side cover screws
(2) Side cover

- Remove the four air cleaner cover screws (3) and remove the air cleaner cover (4).



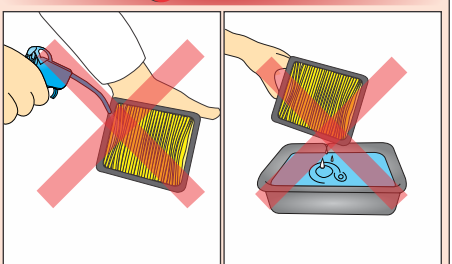
(3) Screws
(4) Air cleaner cover

- Remove the air cleaner element (5) from air cleaner housing (6).



(5) Air cleaner element (6) Air cleaner housing

CAUTION



- ***Never wash or clean the wet, paper pleated type filter. Replace filter element once in every 10000 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.

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

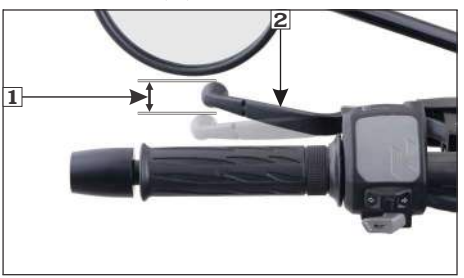
Engine valve clearance changes with use, which may result in improper air-fuel mixture and/or engine noise. To prevent this, the valve clearance must be adjusted at an Authorised Hero MotoCorp workshop at the intervals specified in the maintenance schedule **(page 62)**.

CLUTCH LEVER FREE PLAY

Adjustment

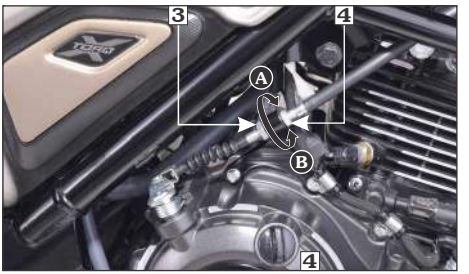
Clutch adjustment may be required if the vehicle stalls when shifting into gear or tends to creep or if the clutch slips, causing acceleration to lag behind engine speed.

Normal clutch lever free play (1) is 10-15 mm at the lever (2).



(1) Free play: 10-15 mm (2) Clutch lever

- To adjust the free play, loosen the lock nut (3). Turn the adjusting nut (4) to obtain the specified free play. Tighten the lock nut and check the adjustment.



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

- Start the engine, press the clutch lever and shift into gear. Make sure the engine does not stall, and the vehicle does not creep. Gradually release the clutch lever and open the throttle. The vehicle should start smoothly and accelerate.

NOTE

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

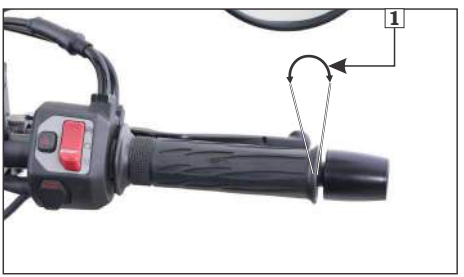
Other checks

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

THROTTLE OPERATION

Cable inspection

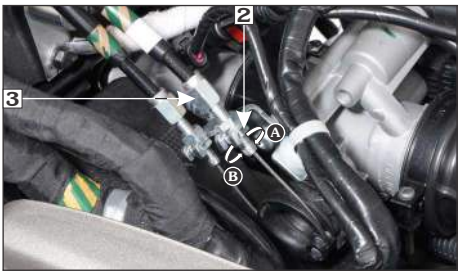
Check for smooth rotation of the throttle grip from the fully open to the fully closed position. Check at full left and full right steering positions. Inspect the condition of the throttle cable from the throttle grip down to the throttle body. If the cable is kinked, chafed or improperly routed, it should be replaced or rerouted. Standard throttle grip free play (1) is approximately 1-3 mm of grip rotation.



(1) Free play: 1-3 mm

Free play adjustment

To adjust the free play, remove the fuel tank then loosen the lock nut (2). Turn the adjuster (3) towards direction "A" or "B" to adjust free play. After adjustment, tighten the lock nut.



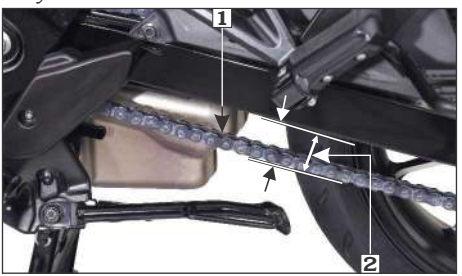
(2) Lock nut **(3) Adjuster**
(A) Decrease free play **(B) Increase free play**

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 51).** 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 (optional) 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

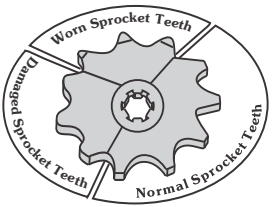
- Damaged rollers
- Loose pins
- Dry or rusted links
- Kinked or binding links
- Excessive wear
- Improper adjustment
- Damaged or missing O-rings

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.

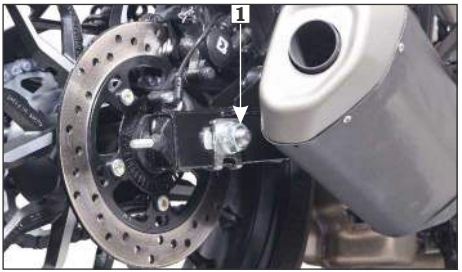
Adjustment

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.

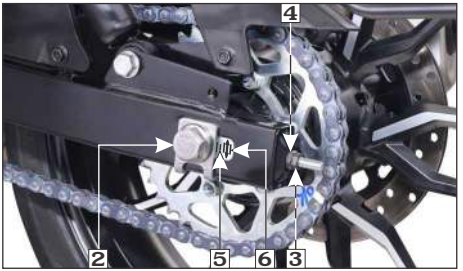
If the drive chain requires adjustment, follow the procedures below:

- Park the vehicle on its main stand (optional) 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: 11 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.
- Tighten the drive chain lock nut.

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

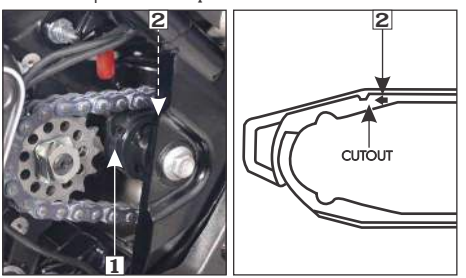
- ***Steam cleaning, high pressure washers and certain solvents can damage the drive chain O-rings.***
- ***While lubricating and cleaning hold the rear wheel with one hand to prevent the possibility of your finger being trapped between the chain and sprocket.***
- ***Clean and lubricate the chain, whenever 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 62**).

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 61).**

(a) Front brake

Master Cylinder/Reservoir (1)

Location : Right handlebar.

Brake fluid recommended:

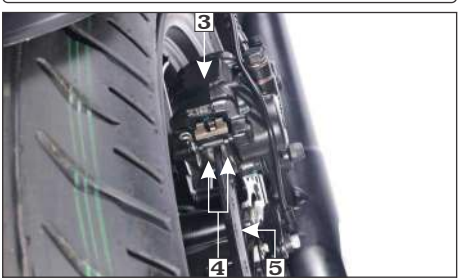
DoT-4

Fluid level – Ensure that the brake fluid level does not fall below "MIN" (minimum) 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) MIN 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.***
- ***Always use recommended tyres (page 8) for better braking performance.***

(b) Rear brake

Refer to the safety precautions on **(page 61).**

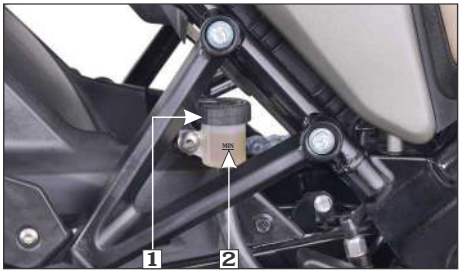
Reservoir (1)

Location: Near right side pillion footrest.

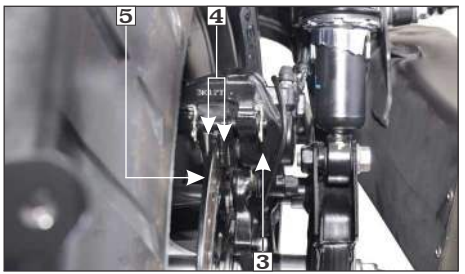
Brake fluid recommended :

DoT-4.

Fluid level – Ensure that the brake fluid level does not fall below "MIN" 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) "MIN" mark



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

NOTE

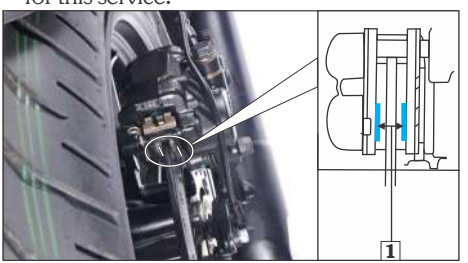
- ***Clean the dirt and mud accumulation between the rear brake caliper (3), brake pads (4) and the disc (5) by using a water jet.***
- ***Always contact your Authorised*** Hero MotoCorp ***workshop for refilling of reservoir when necessary.***

(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

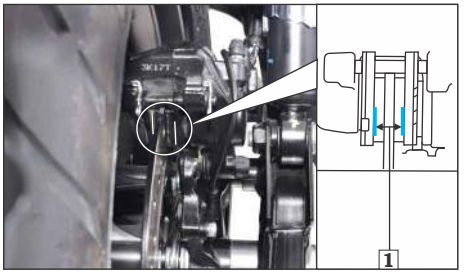
- Check the brake pads for wear by examining the wear indicator groove (1) on each pad.
- If either pad is worn to the bottom of the grooves replace both pads as a set. Visit your Authorised Hero MotoCorp workshop for this service.



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



Rear shock absorber adjustment

General

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

Recommend Adjustment	
Riding Condition	**Position**
Solo rider	2nd position
Rider + Pillion (with or without luggage)	7th position (max preload)

- In direction A: Hard
- In direction B: Soft

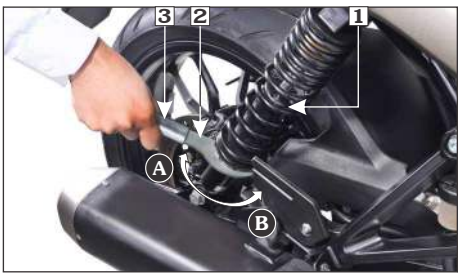
WARNING

Adjust both shock absorbers equally. Improper adjustment can adversely affect stability and handling, which could result in death or serious injury.

NOTE

- ***The total payload (total weight of rider, pillion & accessories etc.) on the vehicle should not exceed 150 kgs.***
- ***Adjustment position should be set same on the left & right rear shock absorber.***
- ***Do not adjust the positions from 1st to 7th or 7th to 1st directly.***

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



(1) Rear shock absorber
(2) Pin spanner (3) Pin spanner handle
(A) Hard (B) Soft

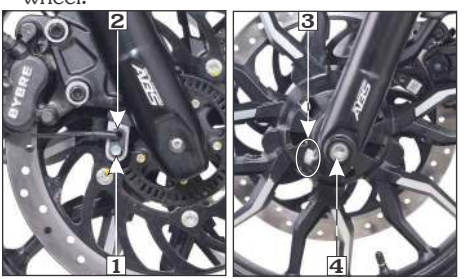
WHEEL

(a) Front wheel

Removal

Refer to the safety precautions on **(page 61).**

- Support the vehicle securely on the main stand (optional) and raise the front wheel off the ground.
- Remove the wheel speed sensor allen key bolt (1) from right fork leg and disconnect the wheel speed sensor (2).
- Loosen the front fork side allen key bolts (3).
- Remove the front axle allen key nut (4) and wheel.



(1) Wheel speed sensor allen key bolt
(2) Wheel speed sensor
(3) Side allen key bolts
(4) Front axle allen key nut

CAUTION

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

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



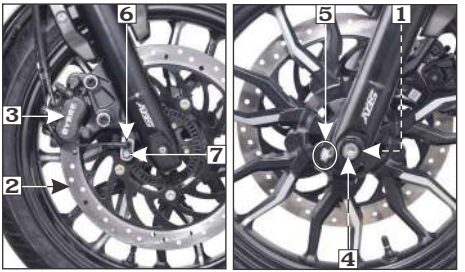
(5) Side collars

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 allen key nut (4) to the specified torque.

TORQUE : 6.8 kgf-m

• Tighten the front fork side allen key bolts (5)
• Install the wheel speed sensor (6) and tighten the allen key bolt (7).
• 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.



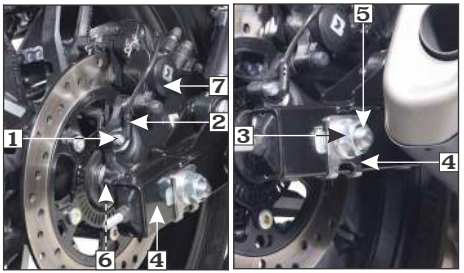
(1) Side collar
(2) Disc
(3) Caliper
(4) Front axle allen key nut
(5) Side allen key bolts
(6) Wheel speed sensor
(7) Wheel speed sensor allen key bolt

(b) Rear wheel

Removal

Refer safety precautions on **(page 61).**

• Support the vehicle securely on the main stand and raise the rear wheel off the ground.
• Remove the wheel speed sensor allen key bolt (1) and disconnect the wheel speed sensor (2) cable.
• Remove the rear axle nut (3) and washer (4).
• Remove the axle (5) and the right side collar (6).
• Move the caliper assembly (7) upwards.
• Slide the wheel out from right side.

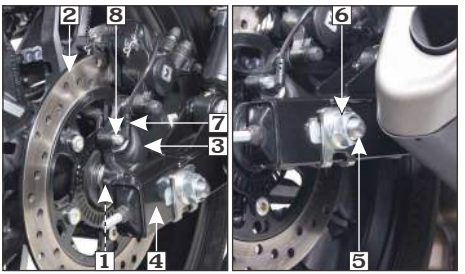


(1) Wheel speed sensor allen key bolt
(2) Wheel speed sensor
(3) Rear axle nut
(4) Washer
(5) Axle
(6) Side collar
(7) Caliper assembly

Installation

- Install the side collar (1) to the right side of the wheel hub.
- Position the rear wheel between the swingarm.
- Insert the disc (2) between the pads in the caliper assembly. When installing the wheel, carefully fit the brake disc between the brake pads to avoid damage to the pads.
- Align the rear caliper holder (3) with the swingarm (4).
- Insert the axle (5) from the left side through the swingarm, wheel hub, collar and rear caliper holder.
- Tighten the rear axle nut (6) to the specified torque.

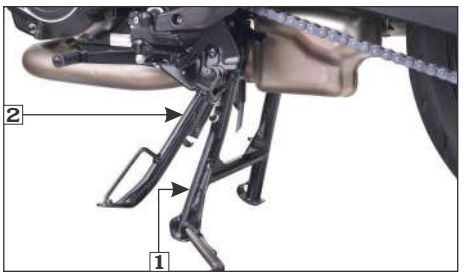
  TORQUE : 11 kgf-m
- Install the wheel speed sensor (7) and tighten the allen key bolt (8).
- Adjust the drive chain slack **(page 72).**



(1) Side collar
(2) Disc
(3) Caliper holder
(4) Swingarm
(5) Rear axle
(6) Rear axle nut
(7) Wheel speed sensor
(8) Wheel speed sensor allen key bolt

MAIN STAND (OPTIONAL)/ 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

(Phantom/Enigma & Groove variants)

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:

Front	Rear
27 psi	29 psi

! CAUTION

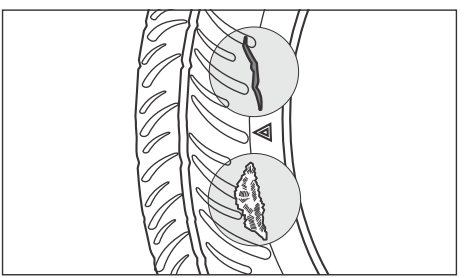
Over inflation/Under inflation will affect the performance.

Inspection

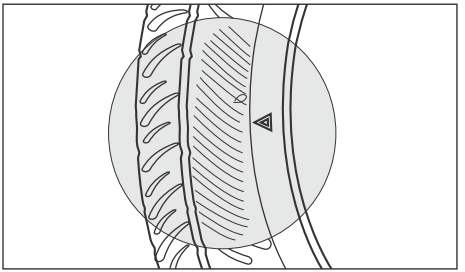
Whenever you check the tyre pressure, you should also examine tyre treads & side walls for wear, damage & foreign objects.

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.

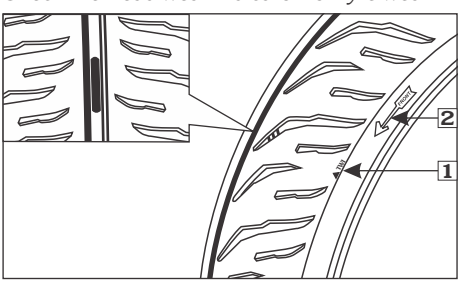
Tread wear

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

MINIMUM TREAD DEPTH:

Front: 0.8 mm **Rear:** 0.8 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 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	110/70-17 54H TL
Rear	150/60 ZR-17 66W TL

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.

TYRE WITH TUBE

(Glide variant)

The tyres that are fitted on your vehicle are designed to match the performance capabilities of handling, braking, durability and comfort.

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.

To safely operate your vehicle, the tyres must be of recommended type and size, in good condition with adequate tread, and correctly inflated. The recommended tyres size is :

Front	110/70-17 54H TL
Rear	150/60 ZR-17 66W TL

Air pressure

Properly inflated tyres provide 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 more harshly, are more prone to damage from surface hazards and wear unevenly.

Make sure the valve stem caps are secure.

If necessary, install a new cap.

The recommended "cold" tyre pressure are:

Front	Rear
27 psi	29 psi



(1) Air pressure gauge

! CAUTION

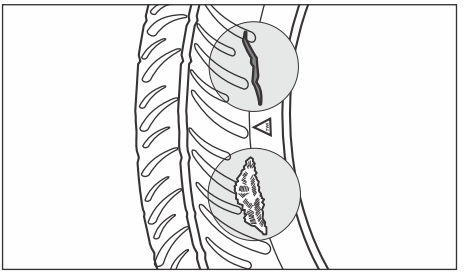
Over inflation/Under inflation will affect the performance.

Inspection

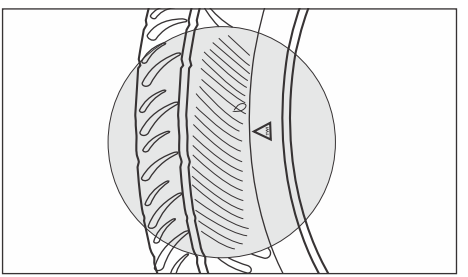
Whenever you check the tyre pressure, you should also examine tyre treads & side walls for wear, damage & foreign objects:

Look for :

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



- Excessive tread wear.



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

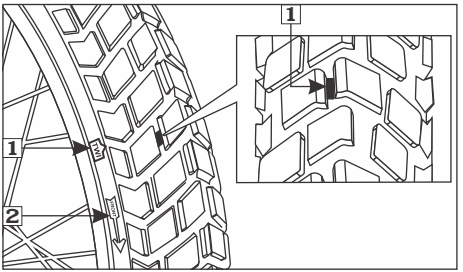
Tread wear

Replace tyres immediately when the tyres get worn upto the wear indicator **(1)** on the tyre. The tread limits are :

MINIMUM TREAD DEPTH:

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

Check the tread wear indicator for tyre wear.



(1) Tread wear indicator (2) Arrow mark

Unidirectional tyres

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

⚠ WARNING

- ***Using tyres that are excessively worn or improperly inflated can cause a crash in which you can be seriously hurt or killed.***
- ***Operation with excessively worn tyres is hazardous and will adversely affect traction and handling.***
- ***Follow all instruction in this owner's manual regarding tyre inflation and maintenance.***
- ***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.***

- ***Spoke tightness and wheel centering and alignment are essential for vehicle safety. During the first 1,000 km, the spokes become loose due to initial seating. Excessively loose spokes will cause instability at high speeds and possible loss of control.***
- ***Inspect the spokes and wheel rims more frequently when the vehicle is ridden in rough terrain.***

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 61).**

Location

The battery is located below the seat.

Specification

*MF Battery 12V-8Ah/ETZ-9

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

***MF stands for Maintenance Free**

NOTE



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



This symbol on the battery means the old battery must be returned to your Authorised** Hero MotoCorp **workshop as it must be treated as recyclable material.

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

Battery charging

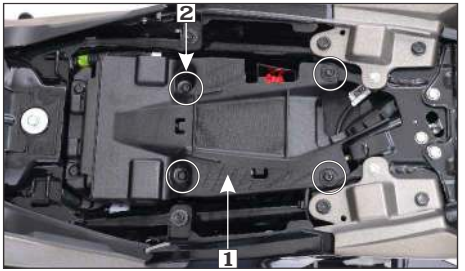
Always visit your Authorised Hero MotoCorp workshop if you see any symptom of battery discharge as earliest as possible to get the battery charged. The battery has a tendency to discharge rapidly if additional electrical accessories are fitted on the vehicle.

Battery storage

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

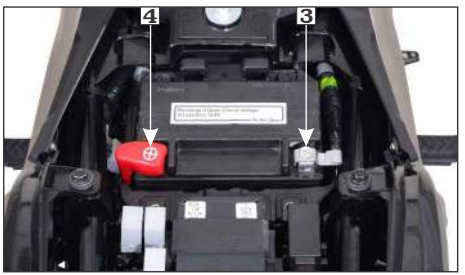
Battery removal

- Make sure the ignition switch is “OFF” (⊗).
- Remove the seat **(page 50).**
- Remove the battery cover (1) by removing the four allen key bolts (2).



(1) Battery cover **(2) Allen key bolts**

- Disconnect the (–)ve terminal lead (3) from the battery first, then disconnect the (+)ve terminal lead (4).



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

- Pullout the battery (5) from the battery box.



(5) 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.

NOTE

During battery installation, always assemble the battery carefully so that +ve terminal should be always fitted on the designated harness terminal.

FUSE REPLACEMENT

Refer to the safety precautions on **(page 61).**

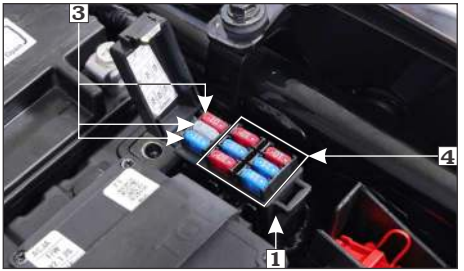
Fuse box (1)

Location: Below the seat.

Fuse type: Blade fuse

Main fuse (2) : 15A x3 nos. & 10A x3 nos.

Spare fuse (3) : 15A, 10A, 25A



(1) Fuse box
(2) Main fuse : 15Ax3 nos. & 10Ax3 nos.
(3) Spare fuse : 15A, 10A & 25A

Starter magnetic switch (4)
Location : Below the battery.
Fuse type: Blade fuse
Main fuse (5) : 25A



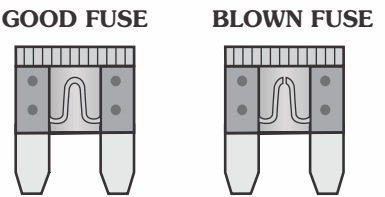
(4) Starter magnetic switch
(5) Main fuse: 25A (6) Spare fuse: 25A

⚠ 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 LEDs and permanent damage to certain electrical components.***
- ***Turn the ignition switch "OFF" before checking or replacing the fuse to prevent accidental short-circuiting.***



HEADLAMP FOCUS ADJUSTMENT

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

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



(1) Headlamp adjusting bolt

WARNING

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

CATALYTIC CONVERTER

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

The catalytic converter contains precious metals that serve as catalysts, promoting chemical reactions to convert the exhaust gasses without affecting the metals. The catalytic converter acts on HC, CO and NOx. The catalytic converter must operate at a high temperature for the chemical reactions to take place. It can set on fire any combustible material that come near it. Park your vehicle away from high grasses, dry leaves, or other flammable material.

A defective catalytic converter contributes to air pollution and can impair your engine's performance.

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

- Always use unleaded petrol. Even a small amount of leaded petrol can contaminate the catalyst metals, making the catalytic converter ineffective.
- Keep the engine in good running condition. A poorly running engine can cause the catalytic converter to overheat.
- If your engine is misfiring, backfiring, stalling, or otherwise not running properly, stop riding and turn "OFF" the engine. Have your vehicle serviced as soon as possible.



(1) Catalytic converter

CAUTION

Avoid keeping any cloth or flammable object between or around hot parts (such as 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 47)**
- 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
- OK ↓

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 90)**
- 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 → Replace

↓ OK

Consult Authorised Hero MotoCorp **Workshop**

3. POOR PICK UP

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

↓ OK

Check air cleaner element → Dirty/Clogged → Replace

↓ OK

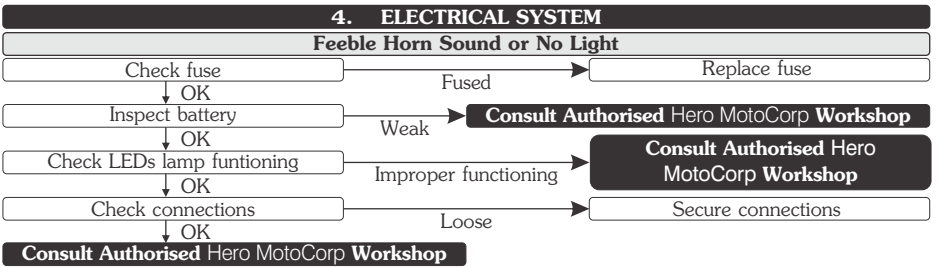
Check brake binding → Improper functioning → **Consult Authorised** Hero MotoCorp **Workshop**

↓ OK

Check tyre inflation pressure → Under inflated → Correct tyre pressure

↓ OK

Consult Authorised Hero MotoCorp **Workshop**


4. ELECTRICAL SYSTEM
Feeble Horn Sound or No Light
Check fuse
Fused
Replace fuse
OK
Inspect battery
Weak
Consult Authorised Hero MotoCorp Workshop
OK
Check LEDs lamp funtioning
Improper functioning
Consult Authorised Hero MotoCorp Workshop
OK
Check connections
Loose
Secure connections
OK
Consult Authorised Hero MotoCorp Workshop

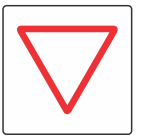
ROAD SIGNS



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

Mandatory


Stop


Give Way


One Way


No Horn


No Bicycles


No Automobiles


No Hand Cart


No Pedestrians


No Right Turn


No 'U' Turn


Overtaking Prohibited



Speed Limit


No Stopping or Standing

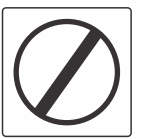

No Parking

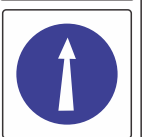


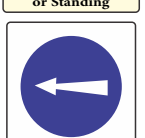
Length Limit



High Limit


Restriction Ends


Compulsory-Ahead Only


Compulsory-Turn Left


Compulsory-Right Ahead


Compulsory-Ahead or Turn Right


Compulsory-Keep Left


Compulsory-Bicycle Track


Compulsory-Sound Horn

ROAD SIGNS



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

Cautionary


Right Hand Curve


Right Reverse Bend


Incline Ahead


Narrow Road Ahead


Narrow Bridge


Pedestrian Crossing


School Ahead


Gap in Medium


Cross Road


Men at Work


Roundabout


Hump Road

ROAD SIGNS



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

Informatory




Hospital


First Aid Post


Petrol Pump

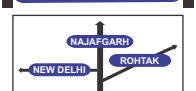

Eating Place


Resting Place


Public Telephone



Place Identification Place



Destination Sign


Light Refreshment

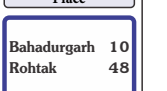

Taxi Stand


Parking Both Sides


Parking This Side


No Through Road


No Through Side Road



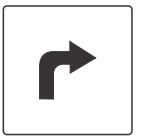
Re-assure Sign

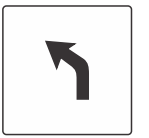
Signs and Signals are language of the road. Learn them, respect them.

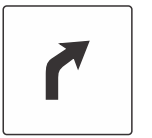
NAVIGATION SIGNS

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.

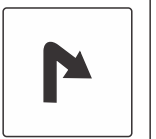

Turn Left


Turn Right

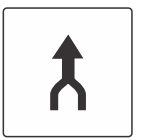

Turn Slight Left

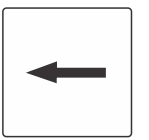

Turn Slight Right

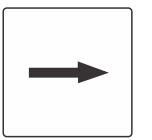

Turn Sharp Left

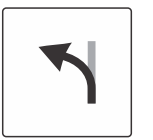

Turn Sharp Right

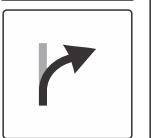

Straight


Merge


Keep Left

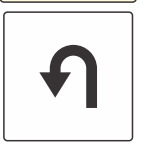

Keep Right

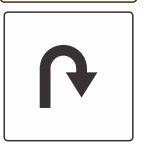

Ramp Left

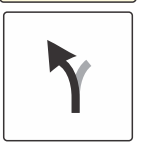

Ramp Right

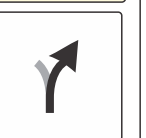

Round About Left


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 **MAVRICK 440** 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) **MAVRICK 440** 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 12 months from the date of previous service or as per the recommended schedule, whichever is earlier.

c) If any problem is observed in **MAVRICK 440** 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 **MAVRICK 440** vehicle needing repair should be brought 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 workshop.

(2) If any other engine oil which is non compatible with the product is used other than Hero Xotic+ 100% Synthetic SAE 15W 50.

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

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

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

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

(7) If **MAVRICK 440** vehicle has been used in any competitive events like races or rallies or for any commercial purposes or if any damage results from misuse or use beyond the limitation of the intended purpose or any damage due to use under abnormal conditions.

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

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

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

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

(12) If any maintenance/repairs required due to bad road conditions or misuse of **MAVRICK 440** vehicle or required due to operation or use of the vehicle at any place or for such purpose for which the vehicle is not designed or manufactured.

(13) If any defect crops or repairs needed as a result of **MAVRICK 440** vehicle meeting with some accident.

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

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

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

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

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

(19) To any part of the **MAVRICK 440** vehicle which has been tampered or repaired in such a manner which has resulted in malfunction of the vehicle.

(20) For **MAVRICK 440** vehicle not used in accordance with the guidelines given in this Owner's Manual.

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

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

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

(24) If the odometer of **MAVRICK 440** has been altered or tampered.

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

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

The terms and conditions governing the Warranty of Telematic Control Unit (TCU) can be referred to at TCU warranty page.

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

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

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

Subject to DELHI JURISDICTION only.

Hero MAVRICK 440 **Hero MotoCorp Ltd.**

BATTERY WARRANTY

Battery fitted in **MAVRICK 440** is a proprietary product of the battery manufacturer and shall be fulfilled and handled directly by the battery manufacturer; Hero MotoCorp shall not be liable for the same. The battery warranty shall be for the period and governed by the terms and conditions as mentioned herein below:

Warranty Period:

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

Terms and conditions of warranty

1. Batteries are warranted against all defects in material and workmanship. Liability under this warranty is limited to making good of defects rising solely from the use of faulty material or workmanship during manufacturing and developing under proper use.

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

Hero MAVRICK 440 **Hero MotoCorp Ltd.**

TELEMATIC CONTROL UNIT (TCU) WARRANTY◆

Telematic Control Unit (TCU) fitted in **MAVRICK 440** is a proprietary product of the TCU manufacturer and shall be fulfilled and handled directly by the TCU manufacturer; Hero MotoCorp shall not be liable for the same. The TCU warranty shall be for the period and governed by the terms and conditions as mentioned herein below:

PRODUCT WARRANTY

Except as provided herein, the warranty of the TCU is valid for 3 years from the date of purchase of the vehicle. The warranty on the TCU is only limited to manufacturing defects.

CONDITIONS OF WARRANTY:

1. Product warranty is only valid in India, and the product is not eligible for any international warranty.
2. Internal battery of TCU is covered under warranty for 12 months from date of purchase of vehicle.
3. eSIM is not covered under any warranty.

WARRANTY DOES NOT COVER THE FOLLOWING CASES:

1. General maintenance, cleaning, application update/installation, product demonstration, or any service other than repair/replacement.
2. Deterioration of the TCU caused by normal wear and tear, including but not limited to rust or stains or weather related reasons.
3. Customer induced damage, such as self-repairs, damage caused by misuse, tampering, alternation etc.
4. Physical abuse, tampering or damage to the TCU/vehicle.
5. Malfunction/s related to telecom operator dependencies like no/poor network, non-registration of e-SIM etc.
6. Removal/damage of warranty void sticker.
7. Damage to TCU due to fitment of non-genuine accessories or incorrect fitment from unauthorized workshops.
8. Serial number of TCU being illegible or having been removed, erased, defaced, altered and/or tampered.

◆ **Applicable for Phantom/Enigma Variants**

EMISSION WARRANTY

Scope of warranty

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

Terms & conditions

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

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

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

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

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

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

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

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

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

EMISSION WARRANTY

j) It is recommended to avail the services as per the recommended schedule to be eligible for the emission warranty benefits. Please ensure that each paid service is availed within 12 months 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.

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

l) Emission warranty shall not be applicable if

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

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

Subject to Delhi jurisdiction only.

GENUINE PARTS

WHAT ARE THE BENEFITS OF Hero MotoCorp GENUINE SPARE PARTS ?

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

CONSEQUENTIAL DAMAGES ON USING NON-GENUINE PARTS

Clutch Plate	• Material used is inferior • Damages other parts of clutch like, clutch center and outer clutch • Affects fuel efficiency • Poor acceleration
Cam Chain Kit	• Poor performance • Reduced life
Gasket Cylinder Head	• Improper sealing • Engine knocking • Leads to leakage and smoky exhaust • Higher emission level

Hero

GENUINE PARTS

CONSEQUENTIAL DAMAGES ON USING NON-GENUINE PARTS

Element Air Cleaner	• Improper air filtration resulting in premature engine failure • Affects fuel efficiency • Poor engine performance
Spark Plug	• Frequent stalling of engine • Higher emission level • Poor engine performance • Affects fuel efficiency
Brake Pads/Shoes	• Poor braking efficiency • Rider safety-an issue • Discs/Drum wear out, resulting in subsequent repair cost
Chain Sprocket Kit	• Noisy Operation • Failure of chain can cause fatal accident

ZONAL/REGIONAL/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

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

Dharuhera Plant

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

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

Haridwar Plant

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

Neemrana Plant

Plot No. 101 - 103, 108 & 109, RIICO, Industrial Area,
Phase - II, Delhi - Jaipur Highway, Neemrana,
Alwar - 301 705, Rajasthan, India.
Phone No.: 0149 - 4673000

Publication No. - 63ACJAE0HMCL