PREFACE

No : IBXB

Thank you for selecting a Hero MotoCorp **XTREME SPORTS**. 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 environment legislation and strengthen the green supply chain.

This booklet is your guide to the basic operation and maintenance of your new Hero MotoCorp **XTREME SPORTS**. 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.

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

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

NOTE

All information, illustration, photograph, directions, specifications and other contents covered in this owner's manual are based on the latest product information available at the time of its printing approval, and the accuracy or correctness of the same is not undertaken or guaranteed. 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.

CONTENTS


Hero
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MOTORCYCLE IDENTIFICATION

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: MBLXXS29XYZXYYYYY

MBL	XXS29	X	Y	Z	X	YYYYY
Manufacturer code	Vehicle Description	Check Digit	Model Year	Plant Code	Month of Manufacturing	Production Serial Number

Engine No.: XXXXEHYZXYYYYY

XXXXEH	Y	Z	X	YYYYY
Engine Description	Year of Manufacturing	Assembly Plant	Month of Manufacturing	Serial Number

Model: Xtreme Sports

Variants	Frame	Engine
Electric start/Front disc/Rear disc/Cast wheel	S29	EH
Electric start/Front disc/Rear drum/Cast wheel	S28	EH

VIN and Engine No. may be required:

1. During registration of the motorcycle.
2. For dealing with Legal & Insurance Departments.

PRODUCT SPECIFICATION

ITEM		SPECIFICATIONS
Dimensions		
Overall length		2100 mm
Overall width		780 mm
Overall height		1080 mm
Wheelbase		1325 mm
Saddle height		800 mm
Ground clearance		163 mm
Weight		
Kerb weight		147 kg (Front Disc/Rear Disc/Kick/Electric)
		146 kg (Front Disc/Rear Drum/Kick/Electric)
Capacities		
Engine oil		1.2 litres at disassembly and1 litre at draining
Fuel tank		12.1 litres (Minimum)
Fuel reserve capacity		1.5 litres (Usable reserve)
Front fork oil at disassembly		175 ml
Hydraulic brake fluid		Castrol Q Stop (DoT-4/DoT-3)
Engine		
Maximum power		11.64 kW (15.6 BHP) @ 8500 rpm
Maximum torque		13.50 N-m @ 7000 rpm
Bore and stroke		57.3x57.8 mm
Compression ratio		10:1
Displacement		149.2 cc
Spark plug		NGK-CPR 8 EA 9
Spark plug gap		0.8-0.9 mm
Valve clearance	Intake (cold)	0.08 mm
	Exhaust (cold)	0.12 mm
Idle speed		1400±100 rpm
Chassis and suspension		
Front Suspension		Telescopic Hydraulic Type
Rear Suspension		Rectangular swingarm with 5 step adjustable Gas Reservoir Suspension (GRS)
Caster angle		26°

PRODUCT SPECIFICATION

ITEM		SPECIFICATIONS
Trail length		96 mm
Tyre size	Front	80/100 x 18-47 P (Tubeless Tyre)
	Rear	110/90 x 18-61 P (Tubeless Tyre)
Tyre pressure	Front (Rider/pillion)	2.00 kgf/cm^2/2.00 kgf/cm^2
	Rear (Rider/pillion)	2.00 kgf/cm^2/2.25 kgf/cm^2
Brakes	Front (Disc type)	Dia. 240 mm
	Rear (Drum/Disc type)	Dia. 130 mm/Dia. 220 mm (Optional)
Transmission		
Primary reduction		3.350 (67/20)
Final reduction		3.0714 (43/14)
Gear Box		5 Speed constant mesh
Gear ratio, 1st		3.0769 (40/13)
2nd		1.7895 (34/19)
3rd		1.3043 (30/23)
4th		1.0909 (24/22)
5th		0.9375 (30/32)
Electricals		
Battery		12V-4 Ah, *MF Battery
Alternator		125 W
Starting System		Kick/Electric Start
Headlamp (High/Low)		12V-35/35W (Halogen Bulb, Trapezoidal **MFR)
Tail/Stop lamp		12V-1.3W/1.96W (LED)
Turn signal lamp		12V-10Wx4 nos. **MFR (Clear Lens-Amber bulb)
Meter Illumination		LED
Neutral indicator		12V-1.12W (BULB)
Turn signal indicator		LED
Position lamp		12V-1.2Wx2 (LED)
Hi Beam indicator		LED
Licence plate lamp		12V-5W
Side stand indicator		LED
Fuse		10A, 15A, 20A

***MF stands for Maintenance Free**

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

MOTORCYCLE SAFETY
IMPORTANT SAFETY INFORMATION

Your motorcycle 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 motorcycle

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 motorcycle 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 motorcycle is stopped.

Take time to learn & practice your motorcycle

Even if you have ridden other motorcycles, practice riding in a safe area to become familiar with how this motorcycle works and handles, and to become accustomed to the motorcycle'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 motorcycles 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 motorcycle 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 motorcycle in safe condition

For safe riding, its important to inspect your motorcycle before every ride and perform all recommended maintenance. Never exceed load limits, and only use accessories that have been approved by Hero MotoCorp for this motorcycle.

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 motorcycle. 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 motorcycle may have suffered damage that is not immediately apparent. Have your motorcycle 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 were 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 motorcycle.

Hero RideSafe

Do's:

- Always conduct simple pre-ride inspection **(page 23).**
- Always wear a helmet with chinstrap securely fastened and insist on a helmet for your pillion rider. Helmet should conform as per safety standards applicable in your country.
- While riding, 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 motorcycle, use both brakes simultaneously, keeping throttle in the close position.
- During night time, dip headlamps of your motorcycle for oncoming traffic, or when following another vehicle.
- Give way to others on the road and signal before you make a turn.
- To make yourself more visible, wear bright reflective clothing that fits well.
- Tightly wrap loose/hanging clothes & avoid entangling with moving parts.
- Get your motorcycle serviced regularly by the Authorised Distributor/Dealer.

Don't

- Never use cell phone while riding the motorcycle.
- Avoid sudden acceleration, braking and turning of your motorcycle.
- Never shift gears without disengaging the clutch and closing the throttle.
- Never touch any part of the hot exhaust system like muffler.
- Never ride under the influence of alcohol or drugs.
- Concentrate on the road and avoid talking to the pillion rider or others on the road.
- Do not litter the road.
- Do not cross the continuous white/ yellow line in the center of the road, while overtaking.
- Do not attach large or heavy items to the handlebars, front forks, or fenders.
- Never take your hands off the steering handle while riding.

ACCESSORIES & MODIFICATIONS

Modifying your motorcycle or using non-Hero MotoCorp accessories can make your motorcycle 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 motorcycle's electrical system capacity **(page 3).** A blown fuse can cause a loss of lights.
- Do not pull a trailer or sidecar with your motorcycle. This motorcycle was not designed for these attachments, and their use can seriously impair your motorcycle's handling.

Modifications

We strongly advise you not to remove any original equipment or modify your motorcycle in any way that would change its design or operation. Such changes could seriously impair your motorcycle'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 motorcycle illegal.

ANTI-THEFT TIPS

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

NAME: _____

ADDRESS: _____

_____

_____

_____

PHONE NO : _____

TIPS FOR HEALTHY ENVIRONMENT

The following tips shall ensure a healthy motorcycle, 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 motorcycle serviced at an Authorised Distributor/Dealer, 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 motorcycle's running condition.

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

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

- 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.

MOTORCYCLE VIEWS

FRONT VIEW

PARTS LOCATION

1. Front fender
2. Front right turn signal lamp
3. Right position lamp
4. Front visor
5. Left position lamp
6. Front left turn signal lamp
7. Headlamp

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

REAR VIEW

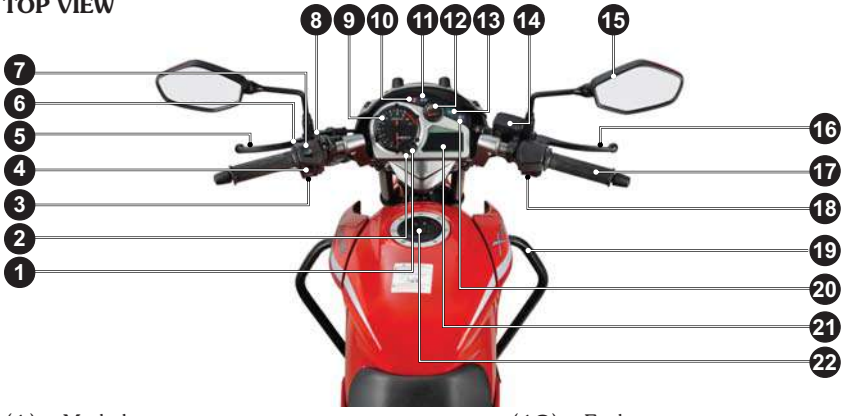
PARTS LOCATION

1. Left rear turn signal lamp
2. Tail/stop lamp
3. Right rear turn signal lamp
4. Licence plate lamp
5. Rear reflex reflector

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

MOTORCYCLE VIEWS

TOP VIEW



(1) Mode button
(2) Set button
(3) Horn switch
(4) Turn signal switch
(5) Clutch lever
(6) Pass lamp switch
(7) Headlamp dimmer switch
(8) Choke lever
(9) Tachometer
(10) Side stand indicator
(11) Turn signal indicator
(12) Fuel gauge
(13) Neutral indicator
(14) Front brake master cylinder
(15) Rear view mirror
(16) Front brake lever
(17) Throttle grip
(18) Electric Starter switch
(19) Leg guard
(20) High beam indicator
(21) LCD panel
(22) Fuel tank cap

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

MOTORCYCLE VIEWS

LEFT SIDE VIEW

(1) Fuel valve
(2) Starter motor
(3) Gear shift pedal
(4) Main stand
(5) Rider foot rest
(6) Side stand
(7) Pillion foot rest
(8) Saree guard
(9) Side reflex reflector
(10) Rear grip
(11) Seat lock
(12) Left side cover
(13) Side stand switch
(14) Air suction valve

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

MOTORCYCLE VIEWS

RIGHT SIDE VIEW

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

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

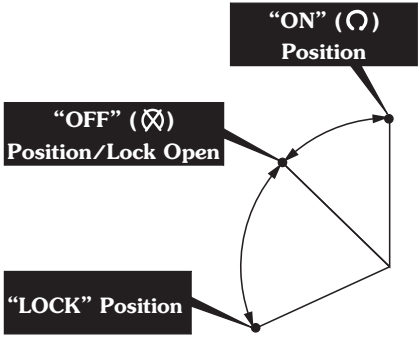
PARTS FUNCTION

Instruments and Indicators

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

Sl. No.	Description	Function
1	Set button	Button when long pressed resets tripmeter to zero.
2	Mode button	Switches display between Odometer, Tripmeter-A & B
3	Odometer	Shows accumulated mileage **(page-17)**
4	Tripmeter A & B	Shows the distance traveled during a trip after setting to zero **(page-17)**
5	Digital clock	Indicates hours & minutes **(page-16)**
6	Speedometer	Indicates riding speed
7	High beam indicator	Light glows when headlamp is in Hi-Beam
8	Neutral indicator	Light glows when vehicle is in neutral position
9	Fuel gauge	Indicates approximate fuel quantity
10	Turn signal indicator	Flashes when turn signal switch is operated
11	Side stand indicator	Light glows when the side stand is put down
12	Tachometer	Indicates engine rpm

IGNITION SWITCH



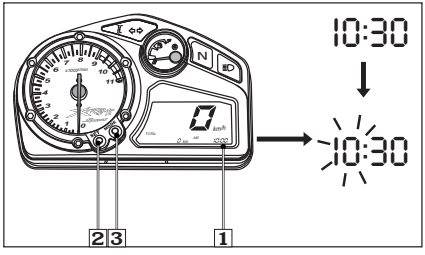
1. Ignition switch
2. Ignition key
3. "OFF" (⊗) position
4. Steering lock position
5. "ON" (⊂) position

Key Position	Function	Key Removal
"ON" (⊂)	The LCD panel illuminates & initial display of multi function digital segments are displayed. The tachometer needle and the fuel gauge needle 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 lamp & Neutral indicator will be functional.	Key cannot be removed.
"OFF" (⊗)	Engine cannot be started and no electrical system will be functional.	Key can be removed
"LOCK"	Steering can be locked	Key can be removed

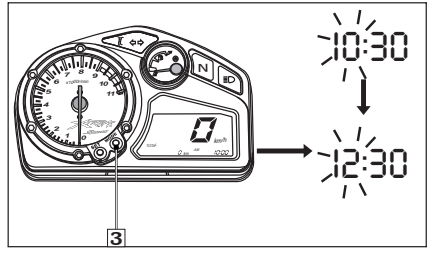
LCD PANEL
DIGITAL CLOCK

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

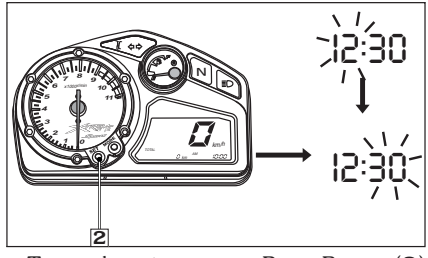
- Turn the ignition switch "ON".
- Press and hold Set Button (2) and Mode Button (3) simultaneously for more than 2 seconds. The clock will be set in the adjust mode with the hour's digit display blinking.



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

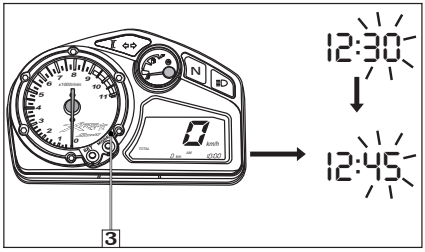


- Press the Set Button (2). The minutes display starts blinking.



- To set the minute press Reset Button (3) until the desired minute is displayed. The minute display will return to "00" when "50" 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.



- To end the adjustment press Select Button (2). The display will stop flashing automatically and the adjustment will be saved or if the button is not pressed for about 30 seconds.

NOTE

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

ODOMETER/TRIPMETER

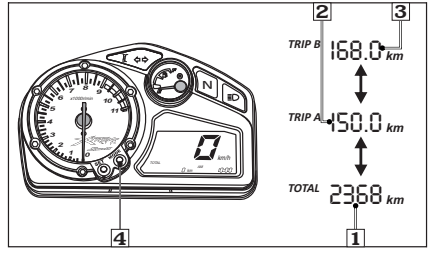
The Odometer (1) shows accumulated distance traveled.

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

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

If the Tripmeter exceeds "99999.9" kms 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.



LEFT HANDLEBAR CONTROLS

1. Headlamp dimmer switch

Press the switch upwards for High Beam and downwards for Low Beam.

2. Turn signal lamp switch ( )

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

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

3. Horn switch ( )

Press the switch to operate the horn.

4. Bystarter lever ( )

To apply bystarter, pull the lever (4) downwards, towards the rider, as directed on the switch.

NOTE

Do not accelerate during starting when the bystarter is on.

5. Pass lamp switch

Press the pass lamp switch to operate the pass lamp.

6. Clutch switch

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

RIGHT HANDLEBAR CONTROLS

Electric starter switch ( )

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

! CAUTION

Never hold electric starter switch continuously more than 5 seconds as continuous cranking of engine will drain the battery.

Steering lock

Steering lock is within 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

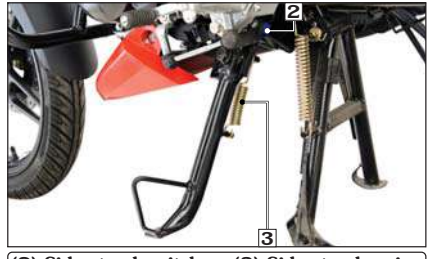
SIDE STAND INDICATOR/SWITCH

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

When the side stand is down [Ignition Switch "ON" (Ω)], an indicator lamp glows in the speedometer panel.

(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 vehicle is removed from side stand, the side stand indicator (1) should not glow.
- If the side stand indicator (1) does not operate as described in above steps, please visit your Authorised Distributor / Dealer.

! CAUTION

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

FUEL VALVE

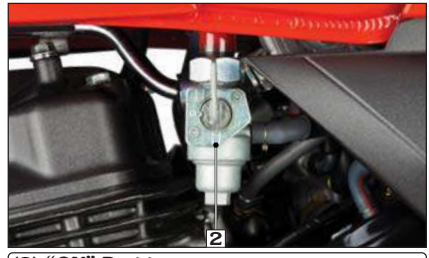
The three way fuel valve is on the left side of the carburetor.

"OFF" Position

(1) "OFF" Position

At "OFF" position, marked on the fuel valve body, fuel cannot flow from the tank to the carburetor. Turn the valve "OFF" whenever the motorcycle is not in use.

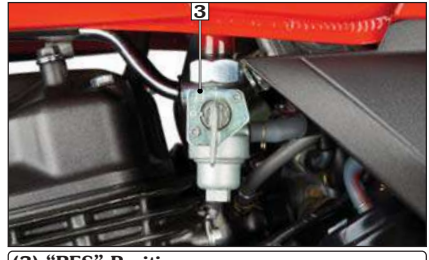
"ON" Position



(2) "ON" Position

At "ON" position, marked on the fuel valve body, fuel will flow from the tank to the carburetor.

"RES" Position



(3) "RES" Position

At "RES" position, marked on the fuel valve body, fuel will flow from the reserve fuel supply to the carburetor. Use the reserve fuel only when the main supply is gone. Refill the tank as soon as possible after switching to "RES". The reserve fuel supply is 1.5 litres (Usable).

NOTE

- ***Do not operate the motorcycle with the fuel valve in the "RES" position after refilling. You may run out of fuel, with no reserve.***
- ***Do not keep the fuel valve between "ON" and "OFF" position while driving, since this may drain reserve fuel from the tank.***

FUEL TANK

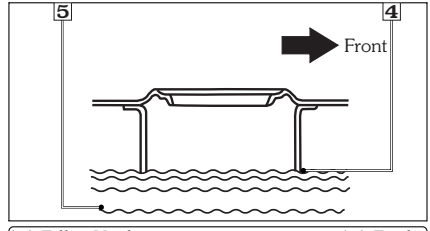
Fuel tank capacity is 12.1 litres (Minimum) including usable reserve supply of 1.5 litres (Usable).

- 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**

(3) Fuel tank cap

- 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.
- Remove the key and put back the keyhole cover.



(4) Filler Neck **(5) Fuel**

CAUTION

Do not park the motorcycle 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 motorcycle is refilled or where petrol is stored.

SEAT LOCK

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

Operation : Insert the ignition key (1) and turn is clock wise to unlock. 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) Seat lock

PRE- RIDE INSPECTION

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

Clean your motorcycle regularly. It protects the surface finish. Avoid cleaning with products that are not specifically designed for motorcycle surfaces. Inspect your motorcycle 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 21).** Check for leaks.
- **Fuel Level-**ensure sufficient fuel is available in the fuel tank for your journey **(page 20)**. Check for leaks.
- **Front Brake-**check for correct brake fluid level in master cylinder **(page 43 & 44).**
- **Rear Brake (Disc type)-**check for correct brake fluid level in the reservoir **(page 44).**
- **Rear Brake (Drum type)-**check for correct brake fluid level in the reservoir **(page 45).**
- **Tyres-**check condition and pressure **(page 46 to 49).**
- **Clutch-**check for smooth operation. Adjust free play **(page 39 & 40)**.
- **Drive Chain-**check condition and slackness **(page 40 to 42).** Lubricate if necessary.
- **Throttle-**check for smooth opening and closing in all steering positions **(page 37)**.
- **Lamps and 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 motorcycle.
- **Air Suction Valve-**make sure all tube connections are secured properly **(page 57).**
- **Fitting & Fasteners-**check & tighten if necessary.
- **Steering-**check for smooth action and for easy maneuverability.
- **Side Stand Indicator-**make sure that the side stand is up. If it is in down position the side stand indicator **(page 19 & 20)** will glow on the speedometer panel.

STARTING THE ENGINE

Turn the ignition switch "ON" (Ω).

Turn the fuel valve "ON".

3. Find neutral position & check (N) indicator glows on instrument cluster with ignition "ON"(Ω).

Pull the choke lever downwards as indicated (Use choke during cold conditions)

Press the starter switch. (Alternatively, kick start pedal can be used for starting).

Push the choke lever upwards, after warming up the engine for few seconds. Continue warming of the engine until it runs smoothly and responds to the throttle when the choke lever is fully upwards to "OFF" position.

⚠ WARNING

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

NOTE

- ***To start the engine in any gear position using the electric starter, press the clutch lever and push the starter switch.***
- ***Kick starting will not be possible when the transmission gears are engaged. Shift the transmission into neutral before kick starting.***
- ***Never attempt to kick start while motorcycle is moving forward or backward. This may lead to damage to the product and is not safe as well.***

Flooded Engine

If the engine fails to start after repeated attempts, it may be flooded with excess fuel. To clear a flooded engine, turn the ignition switch "OFF" (⊗) and move choke lever fully upwards to "OFF" position. Open the throttle fully and crank the engine with the kick starter. Turn the ignition switch "ON" (Ω) and start engine with the choke lever in "OFF" position.

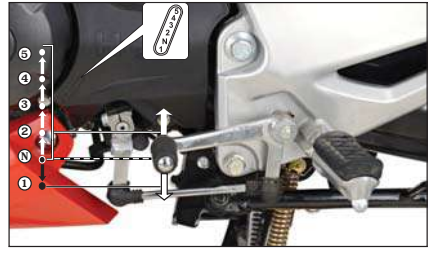
Running In

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

During this period, avoid full-thorottle starts and rapid acceleration

RIDING

- After the engine has been warmed up, the motorcycle is ready for riding.
- While the engine is idling, press the clutch lever and depress the gearshift pedal downwards using the toe to shift into 1st gear.
- Slowly release the clutch lever and at the same time, gradually increase engine speed by opening the throttle. Coordination of the throttle and clutch lever will assure a smooth positive start.
- When the motorcycle attains a moderate speed, close the throttle, press the clutch lever and shift to 2nd gear by placing the toe on the underside of gear pedal and lift upwards.
- This sequence is repeated progressively to shift to 3rd, 4th and 5th gear.



! CAUTION

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

BRAKING

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

⚠ WARNING

- ***Independent use of only the front or rear brake increases stopping distance.***
- ***Extreme braking may cause wheel locking and reduce control over the motorcycle.***
- ***Wherever possible, reduce speed or apply brake before entering a turn, closing the throttle or braking in mid turn may cause***

wheel slip. Wheel slip will reduce control over the motorcycle.

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

PARKING

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

! CAUTION

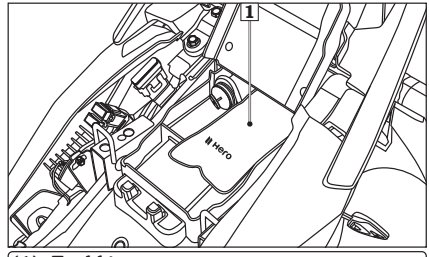
- ***Park the motorcycle on firm level ground to prevent overturning.***
- ***While parking on side stand engage the first gear.***

TOOL KIT

The tool kit (1) is located below the seat in the rear. 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
- +, – No. 2 Driver
- Grip
- Box wrench P16 x 14
- Pin Spanner
- No. 3 cross point screw driver



(1) Tool kit

MAINTENANCE

THE IMPORTANCE OF MAINTENANCE

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

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

These instructions are based on the assumption that the motorcycle will be used exclusively for its designed purpose. Sustained high speed operation or operation in unusually wet or dusty conditions will require more frequent service than specified in the maintenance schedule.

Consult your Authorised Distributor/Dealer for recommendation applicable to your individual needs and use.

⚠ WARNING

- ***Improperly maintaining this motorcycle 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. Wheel removal should normally be handled only by a Authorised Distributor/ Dealer skilled technician or other qualified technician; instructions are included in this manual only to assist in emergency service.

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 motorcycle from falling over, park it on a firm, level surface on the main stand.
- To reduce the possibility of a fire or explosion, be careful when working around petrol or batteries. Use only nonflammable solvent, not petrol, to clean parts. Keep cigarettes, sparks and flames away from the battery and all fuel-related parts.

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

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

MAINTENANCE SCHEDULE

Perform the Pre-ride Inspection **(page 23)** at each scheduled maintenance period.

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

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

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

- To be serviced by your Authorised Distributor/Dealer unless the owner has the relevant tools, technical information and is technically qualified.
- In the interest of safety, we recommend that these jobs are carried out only by your Authorised Distributor/Dealer.
- * Replace air cleaner element once in every 15000 km or early replacement may be required when riding in dusty areas.
- ** Replace engine oil once in every 6000 km. Top up if the oil level is at or near the lower level mark.
- *** Inspect & maintain specified torque.
- **** Replace once in every two years or 30000 km, whichever is earlier.
- • Check idle CO emission along with idle rpm/idle CO adjustment (if required).
- @ Visit Authorised Distributor/Dealer for inspection, cleaning, lubrication and adjustment of drive chain at every 2000 km.

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

Note-2: Inspect the bearings free play, replace if necessary.

Note-3: Replace front fork oil once in a every 2 years or 30000 km, whichever is earlier.

Note-4: Inspect for any play in the mounting bushes, replace if necessary.

Note-5: Inspect the hoses for deterioration, damage or loose connections and canister for cracks or other damages.

Note: Always wipe the water from the motorcycle after washing. Use clean soft cloth or pressurized air for completely drying the water.

MAINTENANCE SCHEDULE

Dear Customer,

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

	ITEMS	SERVICE	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th
		DAYS	1st 60	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90
		KM Note-1	500-750	3000-3500	6000-6500	9000-9500	12000-12500	15000-15500	18000-18500	21000-21500	24000-24500	27000-27500	30000-30500
	Fuel Line		I	I	I	I	I	I	I	I	I	I	I
	Throttle Operation		I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A
	Bystarter Operation		I	I	I	I	I	I	I	I	I	I	I
	Engine Idle Speed/ Carburetor		C, A	A	C, A	A	C, A	A	C, A	A	C, A	A	C, A
	Air Cleaner Element*		Do not open air cleaner element unless there is a drivability problem					R					R
	Spark Plug		I, C, A	I, C, A	I, C, A	I, C, A	R	I, C, A	I, C, A	I, C, A	R	I, C, A	I, C, A
	Valve Clearance		I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A
	Engine Oil**		O	I, T	O	I, T	O	I, T	O	I, T	O	I, T	O
	Engine Oil Strainer Screen		C		C		C		C		C		C
	Engine Oil Centrifugal Filter		C		C		C		C		C		C
	Electric Starter		I	I	I	I	I	I	I	I	I	I	I
	Oil Circulation		I	I	I	I	I	I	I	I	I	I	I
	Drive Chain@		I,C,L,A at every 2000 km					I,C,L,A at every 2000 km					

	ITEMS	SERVICE	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th
		DAYS	1st 60	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90	Next 90
		KM Note-1	500-750	3000-3500	6000-6500	9000-9500	12000-12500	15000-15500	18000-18500	21000-21500	24000-24500	27000-30500	30000-30500
	Drive Chain Slider			I	I	I	I	I	I	I	I	I	I
	Battery Voltage		I	I	I	I	I	I	I	I	I	I	I
	Brake Shoe/Pads Wear		I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A
	Brake Fluid****		I	I	I	I	I	I	I	I	I	I	I
	Brake System (Brake Cam & Brake Pedal)			C, L		C, L		C, L		C, L		C, L	
	Stop Lamp Switch		I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A
	Headlamp Focus		I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A
	Clutch		I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A	I, A
	Side Stand/Main Stand		L	L	L	L	L	L	L	L	L	L	L
	Side Stand Switch		I, C	I, C	I, C	I, C	I, C	I, C	I, C	I, C	I, C	I, C	I, C
	Nut, Bolts & Fasteners***		I	I	I	I	I	I	I	I	I	I	I
	Wheels Bearings	NOTE-2	I	I	I	I	I	I	I	I	I	I	I
	Wheel/Tyres		I	I	I	I	I	I	I	I	I	I	I
	Steering Head Bearing		I	I, A	I	I, A	I, L, A	I	I, A	I	I, L, A	I	I, A
	Front Suspension/Oil****	NOTE-3	I	I	I	I	I	I	I	I	I	I	I
	Rear Suspension	NOTE-4	I	I	I	I	I	I	I	I	I	I	I
	Secondary Air Injection				I		I		I		I		I
	Muffler (Catalytic Converter)*				I, E		I, E		I, E		I, E		I, E
	Evaporative Emission Control System	NOTE-5	I	I	I	I	I	I	I	I	I	I	I

ENGINE OIL

Use only Hero Genuine Engine Oil.

BRAND : Hero 4T plus

GRADE : SAE 10W 30 SJ Grade (JASO MA).

Manufactured by :

1. Tide Water Oil Co. (India) Ltd.
2. Savita Oil Technologies Limited.
3. Bharat Petroleum Corporation Limited.

OIL CAPACITY : 1.2 litres

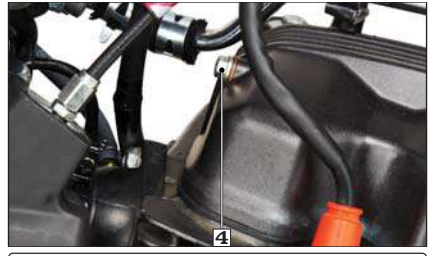
ENGINE OIL LEVEL INSPECTION/TOP UP PROCESS

Check engine oil level each day before operating the motorcycle. The oil level dipstick (1) is on the right crankcase cover for measuring oil level. Oil level must be maintained between the upper (2) and lower (3) level marks on the oil level dipstick.

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

Do top up if oil level reaches towards the lower level mark or every 3000 km. whichever is earlier.

- Park the motorcycle on its main stand.
- Start the engine & let it idle for 3-5 minutes.
- Slightly loosen the engine oil check bolt (4) and check the engine oil entry into the cylinder head cover.



(4) Engine oil check bolt

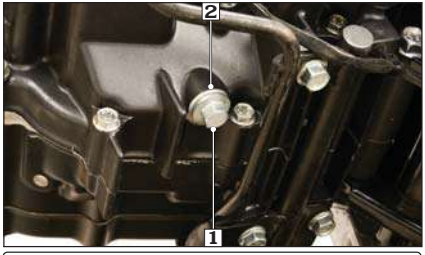
- After checking the oil circulation, tighten the engine oil check bolt.
- Stop the engine and wait for 2-3 minutes.
- Remove the oil level dipstick, wipe it clean and insert without screwing it in.
- Remove the oil level dipstick and check the oil level.
- If required, add the specified oil up to the "UPPER" level mark. Do not overfill.
- Reinstall the oil level dipstick with new O-ring and check for oil leaks.

ENGINE OIL REPLACEMENT PROCESS

Replace engine oil once in every 6000 km/ 6 months whichever is earlier.

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

- To drain the oil, remove the oil level dipstick, drain plug (1) and sealing washer (2).



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

- After the oil has completely drained, reinstall the drain plug with a new sealing washer.
- Fill the crankcase through the oil filler hole with approximately 1.0 litre of recommended grade oil during oil change when right crankcase cover is not removed.
- Reinstall the oil level dipstick with a new O-ring.
- Start the engine and allow it to idle for few minutes.
- Stop the engine and let the engine oil settle down.
- Make sure that oil level is at the "UPPER" level mark of the oil level dipstick with the motorcycle in an upright position and that there are no oil leaks.

! CAUTION

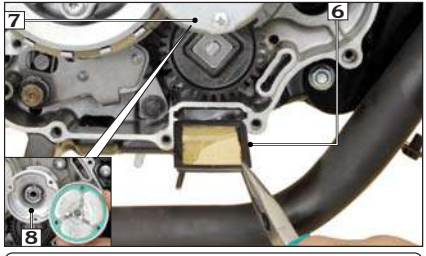
- ***Running the engine with insufficient oil can cause serious engine damage.***
- ***Running the engine with excessive oil can cause spark plug fouling & loss in performance.***
- ***Engine oil is a major factor affecting the performance and service life of the engine. Non-detergent, vegetable or castor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

OIL FILTER SCREEN & CENTRIFUGAL FILTER

- Drain the engine oil throughly.
- Disconnect the clutch cable (1), remove the kick start pedal (2).
- Remove the under cowl (3), kick stopper (4) and right crankcase cover (5).
- Remove the oil filter screen (6) and wash it in clean non flammable or high flash point solvent (kerosene) .
- Reinstall the filter screen with the tapered end facing in.

(1) Clutch cable **(2) Kick start pedal**
(3) Under cowl **(4) Kick stopper**
(5) Right crankcase cover

- Remove centrifugal filter cover (7) & clean the centrifugal filter (8) with non flammable or high flash point solvent (kerosene).



(6) Oil filter screen **(7) Centrifugal filter cover**
(8) Centrifugal filter

- Reinstall the centrifugal filter cover, right crankcase cover and connect the clutch cable.

  Install kick stopper, kick start pedal and under cowl.
- Fill the crankcase with clean engine oil as per specification **(page 33).**

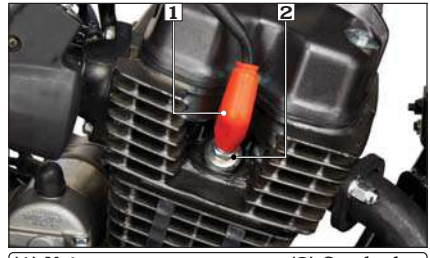
NOTE

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

SPARK PLUG

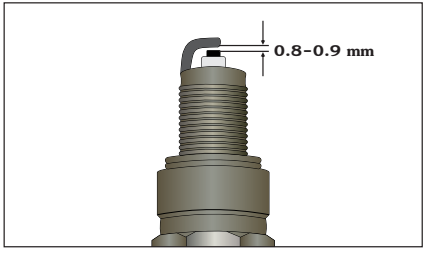
Recommended spark plugs:
NGK-CPR 8 EA9

For most riding conditions this spark plug heat range number is satisfactory. However, if the motorcycle 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 Distributor/ Dealer on this if required.



(1) Noise suppressor cap **(2) Spark plug**

- 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.

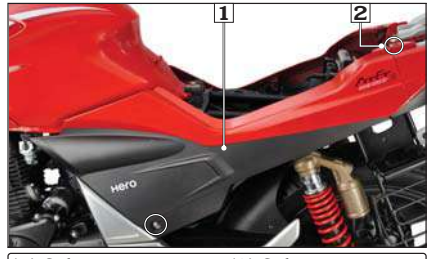


- Visually inspect the spark plug electrodes for wear. The center electrode should have square edges and the side electrode should not be eroded. Discard the spark plug if there is apparent wear or if the insulator is cracked or chipped.
- Make sure that the spark plug gap is **0.8-0.9 mm** using a wire-type 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.

AIR CLEANER

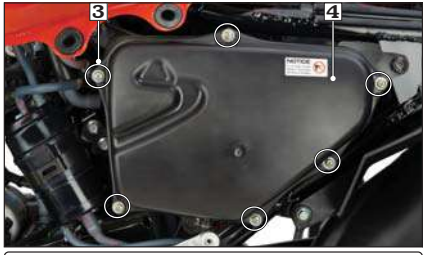
The air cleaner is viscous type paper filter which has enhances filtering efficiency. The air cleaner should be replaced at regular intervals **(page 32).** When riding in dusty areas, more frequent replacement may be necessary.

- Remove the seat assembly **(page 22).**
- Remove the side cover (1) by removing side cover screws (2).



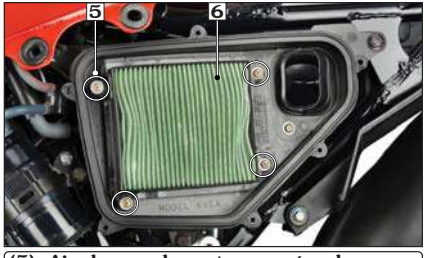
(1) Side cover **(2) Side cover screws**

- Remove the air cleaner cover screws/washers (3) and the cover (4).



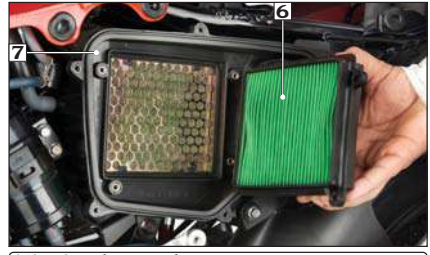
(3) Air cleaner cover screws/washers
(4) Air cleaner cover

- Remove the air cleaner element screws/washers (5) and remove the air cleaner element (6).



(5) Air cleaner element screws/washers
(6) Air cleaner element

- Remove the air cleaner element (6) from air cleaner housing (7).
- Clean the air cleaner housing using a shop towel.



(6) Air cleaner element
(7) Air cleaner housing

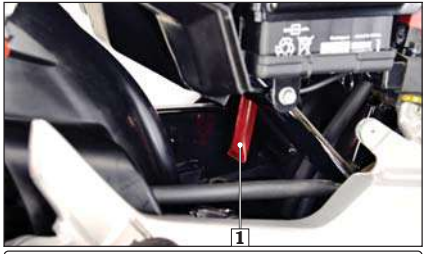
Install a new air cleaner element in the reverse order of removal.

! CAUTION

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

AIR CLEANER DRAIN TUBE

Remove the drain tube (1) from the air cleaner assembly and drain the deposit into a suitable container. Reinstall the drain tube. 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.

THROTTLE OPERATION

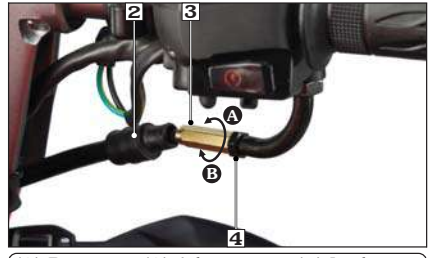
Cable Inspection

(1) Free play 2-6 mm

Check for smooth rotation of the throttle grip from the fully open to the fully closed position. Check at full left and full right steering positions. Inspect the condition of the throttle cable from the throttle grip down to the carburetor. If the cable is kinked, chafed or improperly routed, it should be replaced or rerouted. Standard throttle grip free play (1) is approximately 2-6 mm of grip rotation.

Free Play Adjustment

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



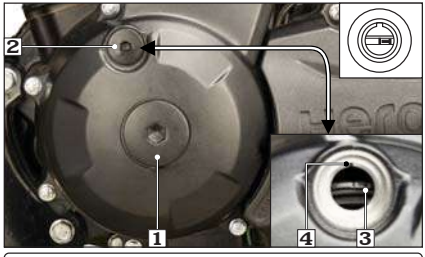
(2) Boot (3) Adjuster (4) Lock nut
(A) Decrease free play (B) Increase free play

VALVE CLEARANCE

Excessive valve clearance will cause noise, and little or no clearance will prevent the valve from closing and cause valve damage and power loss. Check valve clearance at the specified intervals **(page 30).**

NOTE

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

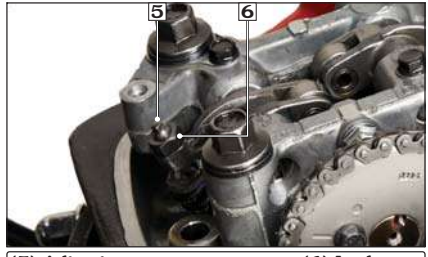


(1) Crankshaft hole cap **(2) Timing hole cap**
(3) 'T' mark **(4) Index mark**

- Remove the crankshaft hole cap (1) and timing hole cap (2).
- Remove the cylinder head cover.
- Rotate the flywheel anticlockwise until the "T" mark (3) on the flywheel coincides with the index mark (4) on the left crank case cover. In this position the piston will either be on the compression or exhaust stroke.

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

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



(5) Adjusting screw **(6) Lock nut**

(7) Feeler gauge

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

Standard clearance (Cold condition)
INTAKE: 0.08 mm EXHAUST: 0.12 mm
If adjustment is required, adjust by loosening the lock nut (6) and turning the adjusting screw (5) until there is a slight drag on the feeler gauge (7).
After tightening the lock nut (6), check the clearance again.
Install the parts in the reverse order of disassembly.

NOTE

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

CARBURETOR

Idle speed

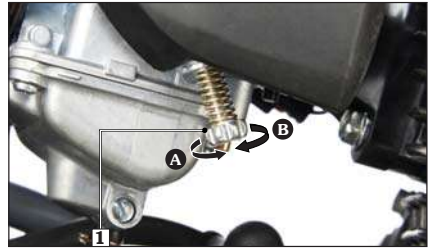
The carburetor is factory preset in order to achieve optimum performance and meet emission standards.
However in case of specific requirement of tuning due to engine stalling in idle speed, please follow the instructions given here under:

- Warm up the engine and rest the motorcycle on the main stand.
- Adjust idle speed with the throttle stop screw (1).

IDLE SPEED: 1400 ± 100 RPM

CAUTION

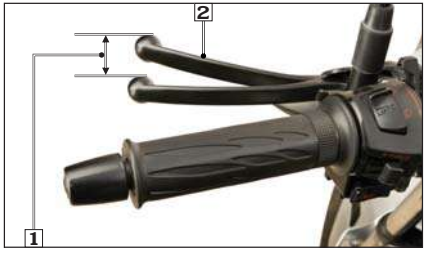
Do not attempt to compensate for faults in other systems by adjusting idle speed. Visit your Authorised Distributor/Dealer for scheduled carburetor adjustment.



(1) Throttle stop screw
(A) Increase rpm **(B) Decrease rpm**

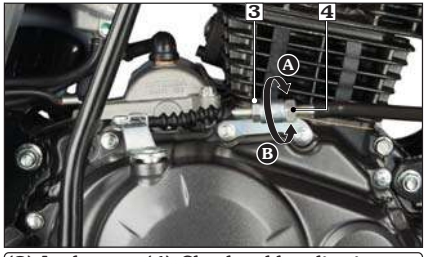
CLUTCH

Clutch adjustment may be required if the motorcycle stalls when shifting into gear or tends to creep or if the clutch slips, causing acceleration to lag behind engine speed. Normal clutch lever free play (1) is 10-20 mm at the lever (2).



(1) Free play 10–20 mm (2) Clutch lever

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



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

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

NOTE

If proper adjustment cannot be obtained or the clutch does not work correctly, visit your Authorised Distributor/Dealer.

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.

DRIVE CHAIN

The service life of the drive chain is depends upon proper lubrication and adjustment. Poor maintenance can cause premature wear or damage to the drive chain and sprockets.

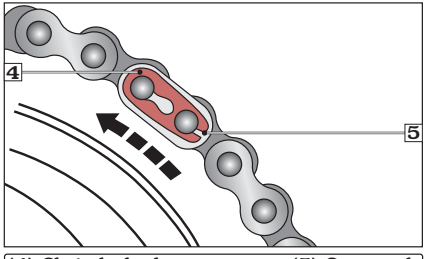
The drive chain (1) should be checked and lubricated as part of the Pre-ride Inspection **(page 23).** Under severe usage or when the motorcycle is ridden in unusually dusty areas more frequent maintenance will be necessary.

Inspection

- Turn the engine "OFF", park the motorcycle on its main stand and shift the gear to neutral. Remove hole cap (2).
- Drive chain slack (3) should be adjusted to 30 mm (1¼ in.) vertical movement by hand.

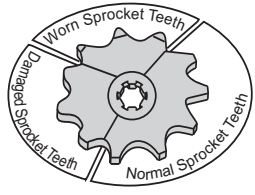
Rotate the wheel and check drive chain slack as the wheel rotates. Drive chain slack should remain constant as the wheel rotates.
If the chain is slack in one section and tight in another, some links are kinked and binding. Binding can be eliminated by frequent lubrication.

(1) Drive chain **(2) Hole cap**
(3) Drive chain slack 30 mm



(4) Chain lock plate **(5) Open end**

- Turn the chain to view chain lock plate (4) inside the hole. Ensure that the chain lock plate open end (5) is installed in the opposite direction of the chain rotation.
- Inspect the sprocket teeth for wear or damage.
- If the drive chain or sprockets are excessively worn or damaged, they should be replaced. Never use a new chain with worn out sprockets since this will result in rapid chain wear.

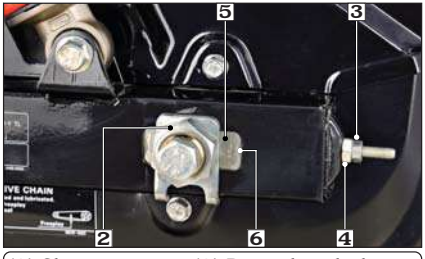


Adjustment

- Park the motorcycle on its main stand with the transmission in neutral and the ignition switch "OFF" position.
- Loosen the rear axle nut (1) and sleeve nut (2).
- Loosen the drive chain lock nut (3).
- Turn both the adjusting nuts (4) in an equal number of turns until the correct drive chain slack is obtained. Turn the adjusting nut clockwise to decrease the slack or anticlockwise to increase the slack of the chain.

- Align the chain adjuster index mark (5) with the rear edge (6) of the adjusting slots on both sides of the swing arm equally.
- If the drive chain slack is excessive when the rear axle is moved to the furthest limit of adjustment, the drive chain is worn and must be replaced.

(1) Rear axle nut



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

- Tighten the rear axle nut and sleeve nut.
- Check the drive chain slack again.
  - Rear axle nut torque : 6.8 kgf-m.
  - Sleeve nut torque : 5.9 kgf-m.
- Rear brake pedal free play is affected when repositioning the rear wheel to adjust drive chain slack. Check rear brake pedal free play and adjust as necessary **(page 45).**

Lubrication

- Turn the engine "OFF", park the motorcycle on its main stand and shift the transmission into neutral.
- Lubricate the drive chain by applying liberal amount of SAE- 90 oil or chain lubricant .

! CAUTION

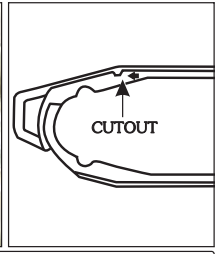
Regular adjustment and lubrication as per the maintenance schedule would ensure high performance and longer life.

NOTE

Visit Authorised Distributor/Dealer for inspection, cleaning, lubrication and adjustment of drive chain at every 2000 km.

DRIVE CHAIN SLIDER

(Refer to "Maintenance Schedule" on **page 30**). Check the chain slider (1) for wear, The chain slider must be replaced if the or wear limit is reached. For replacement, visit your Authorised Distributor/Dealer.



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

FRONT BRAKE

Refer to the safety precautions on **(page 28).**

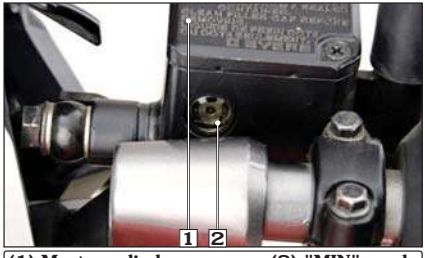
Master Cylinder (1)

Location : Right handlebar.

Brake fluid recommended :

Castrol Q Stop-DoT-4/DoT-3.

Fluid level – Ensure that the brake fluid level does not fall below "MIN" mark (2) on front brake master cylinder parallel to the ground.

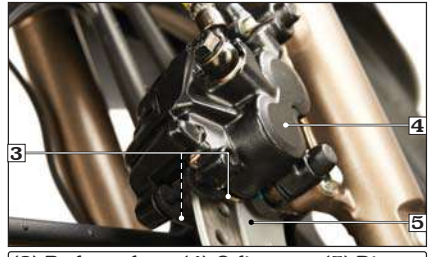


(1) Master cylinder **(2) "MIN" mark**

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 Distributor/Dealer.

NOTE

- ***Clean the dirt and mud accumulation between the brake pads (3), caliper (4) and the disc (5) by using a water jet.***
- ***Always contact your Authorised Distributor/ Dealer for refilling of master cylinder when necessary.Do not mix DoT 3 and DoT 4 brake fluid.***



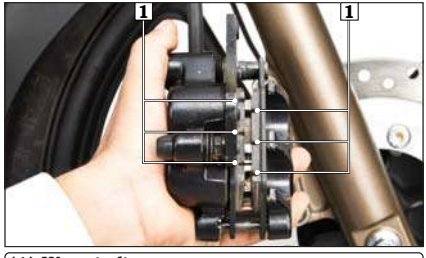
(3) Brake pad **(4) Caliper** **(5) Disc**

Brake Pad Wear

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

Inspection

- Check the brake pads for wear by examining the wear limit 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 Distributor/Dealer for this service.



(1) Wear indicator grooves

WARNING

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

REAR BRAKE

Disc type

Refer to the safety precautions on **(page 28).**

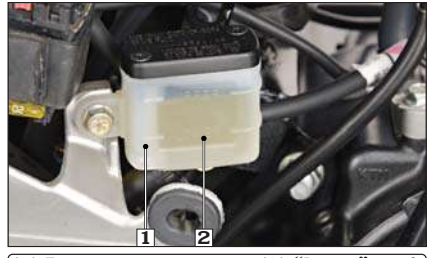
Reservoir (1)

Location : Inside right side cover next to the battery.

Brake fluid recommended :

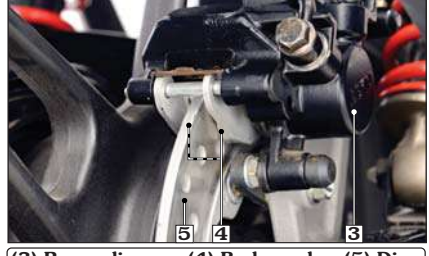
Castrol Q Stop-DoT-4/DoT-3.

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



(1) Reservoir (2) "Lower" mark

Rear Caliper

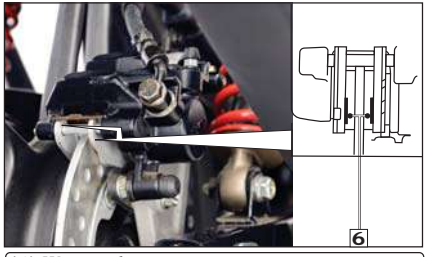


(3) Rear caliper (4) Brake pads (5) Disc

NOTE

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

Check the wear indicator grooves (6) in each pad. If either pad is worn to the bottom of the grooves, replace both as a set. Visit your Authorised Distributor/Dealer for this service.



(6) Wear indicator grooves

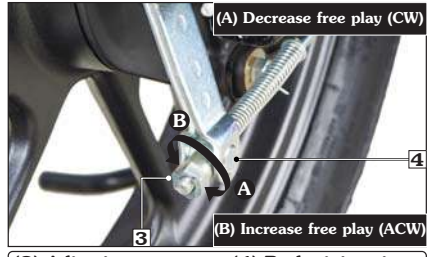
REAR BRAKE

Drum type

- Park the motorcycle on its main stand.
- Measure the distance brake pedal (1) moves before the brake starts to take hole. Free play (2) should be 20-30 mm.

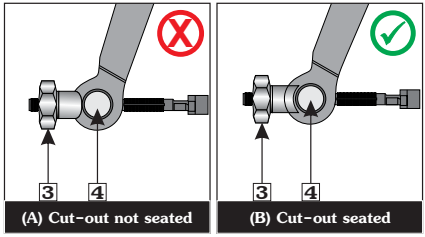
(1) Rear brake pedal (2) Free play 20-30 mm

- If adjustment is necessary, turn the rear brake adjusting nut (3).
- Make sure that the cut-out on the adjusting nut is seated on the brake arm pin (4) after the final adjustment has been made.
- Apply the brake several times and check for free wheel rotation when released.



(3) Adjusting nut (4) Brake joint pin

CW- Clockwise ACW- Anticlockwise



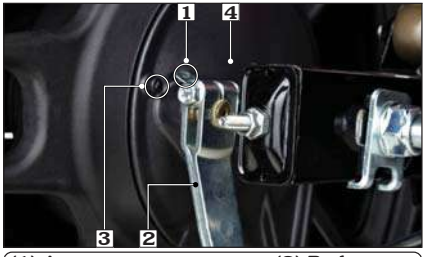
(A) Cut-out not seated (B) Cut-out seated

(3) Adjusting nut (4) Brake arm pin

NOTE

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

BRAKE WEAR INDICATORS



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

When the brake is applied, an arrow (1), fixed to the brake arm (2), moves towards a reference mark (3) on the brake panel (4).

If the arrow aligns with the reference mark on full application of the brake, the brake shoes must be replaced.

TUBELESS TYRES

The tyres fitted on your motorcycles are of TUBELESS type.

To safely operate your motorcycle, 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 motorcycle ride harshly, are more prone to damage from road hazards, and wear unevenly.

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

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

The recommended "cold" tyre pressures are:

	Rider only	Rider and Pillion
Front	2.00 kgf/cm^2 (29 psi)	2.00 kgf/cm^2 (29 psi)
Rear	2.00 kgf/cm^2 (29 psi)	2.25 kgf/cm^2 (33 psi)

! CAUTION

Over inflation/Under inflation will affect the performance.

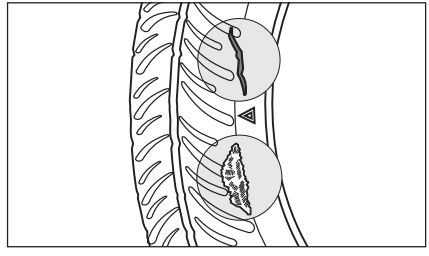
Inspection

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

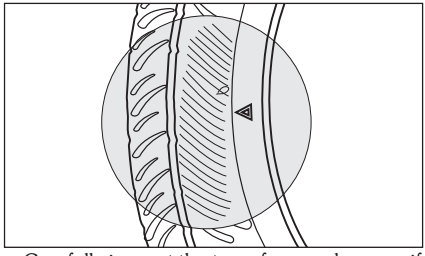
Look for:

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

(1) Air pressure gauge



- Excessive tread wear.



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

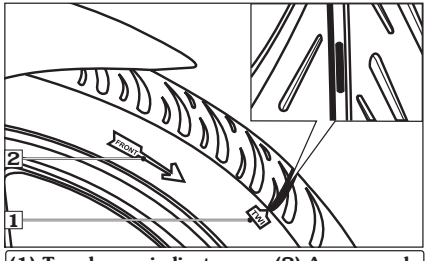
Tread Wear

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

MINIMUM TREAD DEPTH:

Front: 1.5 mm **Rear:** 2.0 mm

Check the tread wear indicator for tyre wear.



(1) Tread wear indicator (2) Arrow mark

Unidirectional Tyres

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

Tyre Repair

If a tyre is punctured or damaged, you should replace it, not repair it. As mentioned below, a tyre that is repaired either temporarily or permanently, will have lower speed and performance limits than a new tyre.

A temporarily repaired, such as an external tubeless tyre plug, may not be safe for normal speeds and riding conditions. If a temporary or emergency repair is made to a tyre, you should ride slowly cautiously to your Authorised Distributor/Dealer and have the tyre replaced. If possible you should not carry a pillion or load until a new tyre is installed.

Even if a tyre is professionally repaired with a permanent internal patch plug, it will not be as good as a new tyre.

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. Therefore, we strongly recommend that you replace a damaged 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 motorcycle were designed to match the performance capabilities of your motorcycle

and provide the best combination of handling, braking, durability and comfort.
The recommended tyre for your motorcycle are:

Front	80/100-18M/C 47P (Tubeless Tyre)
Rear	110/90-18M/C 61P (Tubeless Tyre)

WARNING

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

NOTE

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

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 motorcycle. Excessive heat buildup can cause the tube to burst.
- Use only tubeless tyres on this motorcycle. 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.

BATTERY

Refer to the safety precautions on **(page 28).**

Location

The battery (1) is located behind the right side cover.

Specification

MF Battery, 12V-4 Ah

(1) Battery

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

NOTE

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

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

Battery is a Maintenance-Free (sealed) type and can be permanently damaged if the sealing strip is removed.

An improperly disposed battery can be harmful to the environment and human health. Always confirm local regulations for battery disposal.

⚠ WARNING

- ***The battery gives off explosive hydrogen gas during normal operation.***
- ***A spark or flame can cause the battery to explode with enough force to seriously hurt you.***
- ***Wear protective clothing and a face shield, or have skilled technician do the battery maintenance.***

Battery charging

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

Battery storage

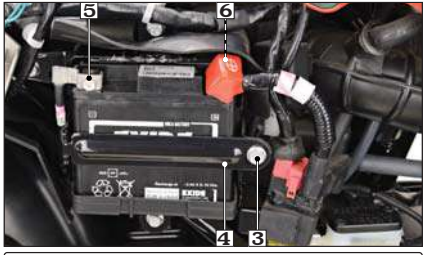
- If in case your motorcycle is not used for more than a month remove the battery, fully charge and store in a cool and dry place.
- If the battery is expected to be stored for more than two months, ensure to fully charge the battery once in a month.
- Always ensure the battery is fully charged before 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 22).**
- Remove the right side cover screws (1) and remove the side cover (2).

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

- Remove the battery clamp bolt (3) and the battery clamp (4).
- Disconnect the negative (–) terminal lead (5) from the battery first, then disconnect the positive (+) terminal lead (6).
- Pullout the battery from the battery box.

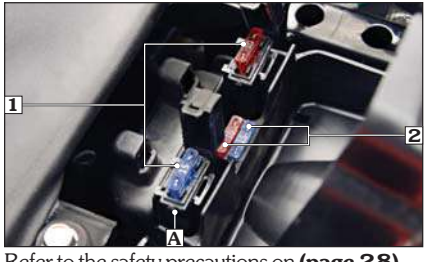


(3) Clamp bolt	**(4) Battery clamp**
(5) (–)ve terminal	**(6) (+)ve terminal**

Battery installation

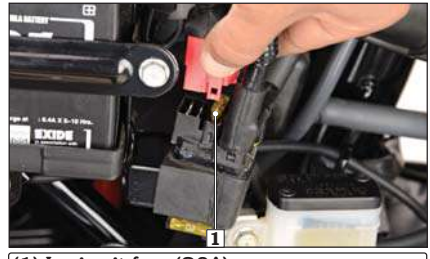
- Reinstall in the reverse order of removal. Be sure to connect the positive (+)ve terminal first, then the negative (–)ve terminal.
- Check all fasteners are secure.

FUSE REPLACEMENT

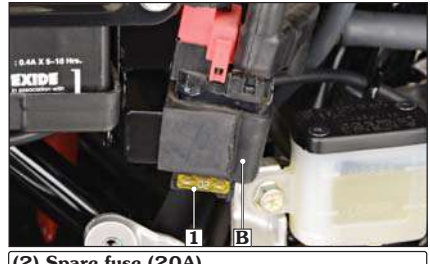


Refer to the safety precautions on **(page 28).**
Fuse Box (A) Location : Below the seat

Fuse Type: Blade fuse
(1) In circuit fuse (15A, 10A)
(2) Spare fuse (15A, 10A)
Starter magnetic switch (B)
Location : Inside right side cover
Fuse Type: Blade fuse
Location : Below starter magnetic switch



(1) In circuit fuse (20A)



(2) Spare fuse (20A)

⚠ WARNING

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

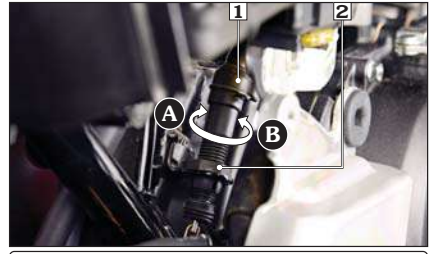
! CAUTION

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

STOP LAMP SWITCH

The stop lamp switch (1) must be adjusted so that stop lamp glows when rear brake is applied. Rear brake free play **(page 45)** should be adjusted before performing stop lamp switch adjustment. The procedure for adjusting stop lamp is as follows :

- Turn the ignition switch to the "ON" (○) position.
- Turn the adjusting nut (2) to position stop lamp switch at a point where the stop lamp glows just before the brake pedal is depressed to the limit of its free play. Turn the adjusting nut in direction (A) to advance switch timing or in direction (B) to retard switch timing.



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

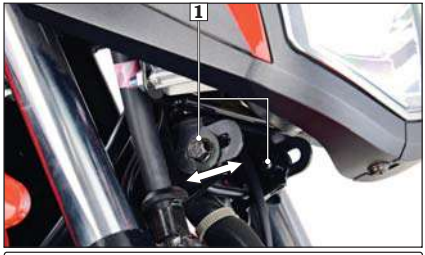
HEADLAMP ADJUSTMENT

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

- Headlamp adjustment is done by the loosening the bolt (1) located below the headlamp.
- Park the motorcycle on level ground.
- Adjust the headlamp beam by loosening the bolt (1) and moving the headlamp unit forward and backward for correct focus adjustment.
- Tighten the nut after adjustment.

⚠ WARNING

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



(1) Headlamp adjusting bolts

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 motorcycle is not parked on stand. The motorcycle action should be smooth and there should be no oil leakage.

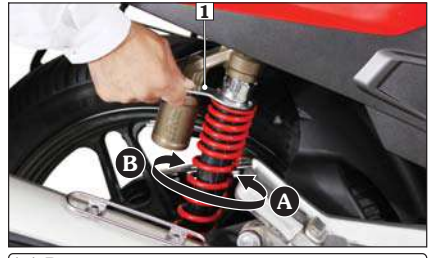
Rear Shock Absorber Adjustment

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

- In direction A Stiffer
- In direction B Softer

NOTE

Always adjust both the rear shock absorber to the same position. Use the pin spanner (1) available in the tool kit.



(1) Pin spanner

FRONT WHEEL REMOVAL

Refer to the safety precautions on **(page 28).**

- Support the motorcycle securely on the main stand and raise the front wheel off the ground.
- Remove the speed sensor cable stay bolt **(1)** from the left fork leg and the stay.

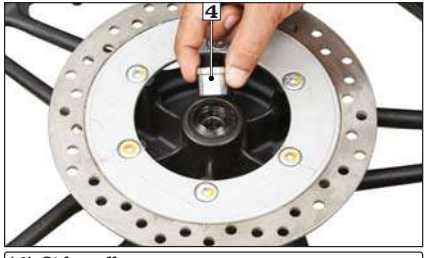
• Remove the front axle nut (2), remove the axle and wheel.

(1) Speed sensor cable stay (2) Axle nut
(3) Speed sensor

! CAUTION

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

• Remove the side collar (4) and speed sensor (3) from the wheel.



(4) Side collar

(3) Speed sensor

FRONT WHEEL INSTALLATION

• Install the side collar (4) to the right side of the wheel hub and then install the speed sensor (3) on the left side of the wheel hub.
• Position the front wheel between the fork legs by aligning the slot on the speed sensor with the lug on the fork leg and the disc between the brake pads to avoid damage to the pads. Insert the axle from the right side through the fork legs and wheel hub.
• Tighten the front axle nut (2) to the specified torque.

TORQUE : 5.9 kgf-m

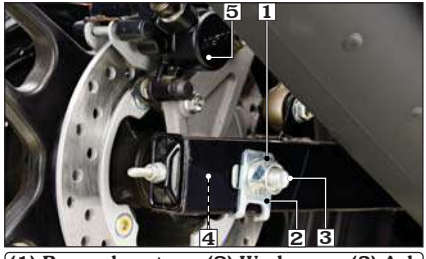
• Install the stay and the speed sensor cable stay bolt (1) on to the left fork leg.
• After installing the wheel apply the brake several times and then check if the wheel rotates freely. Recheck the wheel if the brake drags or if the wheel does not rotate freely.

REAR WHEEL REMOVAL

Disc type

Refer safety precautions on **(page 28).**

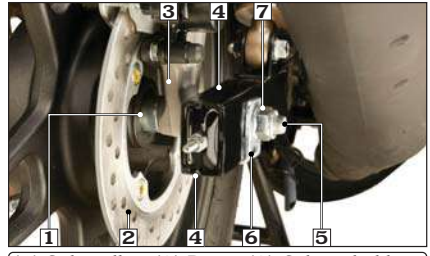
- Support the motorcycle securely on the main stand and raise the rear wheel off the ground.
- Remove the rear axle nut (1) and washer (2).
- Remove the axle (3) and the right side collar (4).
- Move the caliper assembly (5) upwards.
- Slide the wheel out from left side.



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

REAR WHEEL INSTALLATION

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



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

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

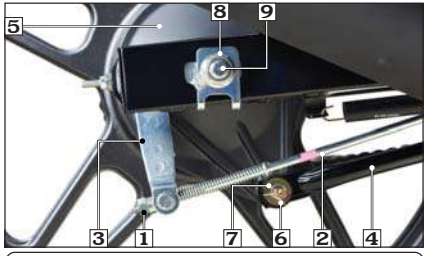
TORQUE : 6.8 kgf-m

REAR WHEEL REMOVAL

Drum type

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

• Remove the axle nut (8) and pull out the axle (9). Remove the wheel.



(1) Rear brake adjusting nut (2) Rear brake rod
(3) Brake arm (4) Brake stopper arm
(5) Brake panel (6) Split pin (7) Lock nut
(8) Axle nut (9) Axle

Installation Notes

- Reverse the removal procedure
- Axle nut torque : 6.8 kgf-m
  Brake stopper arm nut torque : 2.2 kgf-m
- Adjust the brake **(Page 45).**
- After installing the wheel, apply the brake several times and check for free wheel rotation when released.

! CAUTION

Always replace used split pins with new ones.

WASHING THE MOTORCYCLE

Follow the below mentioned steps for washing the motorcycle.

- Wet the motorcycle with light water spray. avoid directing water to muffler outlets and electrical parts.
- Wet the motorcycle with light water spray. avoid directing water to muffler outlets and electrical parts.
- Clean the headlamp lens and other plastic parts using a cloth or sponge dampened with a solution of mild detergent and water. Rub the soiled area gently rinsing it frequently with fresh water.
- After cleaning spray water thoroughly.
- Dry the motorcycle by wiping with dry soft cloth.

NOTE

- ***We at dealership take all above mentioned precautions like recommended detergents and usage of muffler caps/plugs during wash to ensure quality wash.***
- ***Do not put water inside the muffler during washing. It is advisable to put a cover over the exhaust pipe to avoid water entering the muffler.***
- ***Do not use high pressure water (or air). It can damage certain parts of the motorcycle.***

CATALYTIC CONVERTER

This motorcycle is equipped with a catalytic converter in the muffler to meet the emission norms.

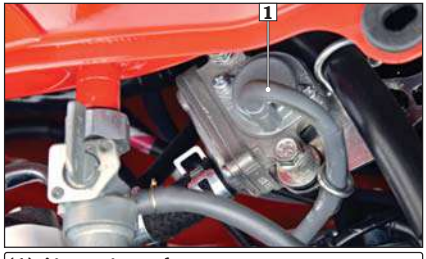
The catalytic converter contains noble metals that serve as catalyst, promoting chemical reactions to convert CO and HC in the exhaust to CO_2 and H_2O (water vapour).

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

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

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

AIR SUCTION VALVE



(1) Air suction valve

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

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

EVAPORATIVE EMISSION CONTROL SYSTEM

This motorcycle 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

1. STARTING TROUBLE – ENGINE DOES NOT START

A. Fuel System

- Check fuel valve position → "OFF" → Turn to "ON" position
- ↓ "ON" Position
- Check fuel in Fuel Tank → No Fuel → Refill
- ↓ OK
- Check fuel Lines → Leakage/Air Lock → Rectify
- ↓ OK
- **Consult Authorised Distributor/Dealer**

B. Electric Starter Not Working

- Check Fuse → Fused → Replace Fuse **(ref. page 51)**
- ↓ OK
- Inspect Battery → Weak → **Consult Authorised Distributor/Dealer**
- ↓ OK
- Check connections, Ignition switch/starter switch → Loose → Secure connections
- ↓ OK
- **Consult Authorised Distributor/Dealer**

C. No Spark At Spark Plug

- Check Ignition Switch → "OFF" (⊠) Position → Turn ignition switch "ON" (○)
- ↓ 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 Distributor/Dealer**

2. ENGINE STARTS BUT STALLS

- Check Bystarter lever position
  - "ON" → Turn to "OFF" position
  - "OFF" Position ↓
- Check Air Cleaner element
  - Dirty → Replace
  - OK ↓
- **Consult Authorised Distributor/Dealer**

3. POOR PICK UP

- Spark Plug Loose in Cylinder Head
  - Loose → Tighten the Spark Plug
  - OK ↓
- Check Air Cleaner element
  - Clogged → Replace
  - OK ↓
- Check Brake Binding
  - Improper functioning (Disc Type) → **Consult Authorised Distributor/Dealer**
  - Improper Adjustment (Drum Type) → Readjust free play of rear Brake brake pedal
  - OK ↓
- Check Tyre Inflation Pressure
  - Under Inflated → Correct Tyre Pressure
  - OK ↓
- **Consult Authorised Distributor/Dealer**

4. ELECTRICAL SYSTEM

Feeble Horn Sound or No Light

- Check Fuse
  - Fused → Replace Fuse
  - OK ↓
- Inspect Battery
  - Weak → **Consult Authorised Distributor/Dealer**
  - OK ↓
- Check Bulbs
  - Fuse/Wrong Wattage → Replace Bulbs
  - OK ↓
- Check Connections
  - Loose → Secure Connections
  - OK ↓
- **Consult Authorised Distributor/Dealer**

CUSTOMER'S COPY

Hero MotoCorp Ltd.

DELIVERY CERTIFICATE

No.: IBXB

DEALER CODE

I certify having taken delivery of one Hero MotoCorp **XTREME SPORTS** Motorcycle bearing the following particulars:–

Engine No. _____

VIN _____

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

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

Customer's Name _____

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

Customer's Copy

Hero MotoCorp Ltd.

Alongwith the motorcycle I have also received the following:-

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

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

Customer's Name _____

Customer's Address _____

Customer's Signature _____

Authorised Distributor/Dealer Name _____

Authorised Distributor/Dealer Address _____

Details of Tool kit

Tool Bag, +, - No. 2 Driver, Grip, Box Wrench P16 x 14, Pin Spanner, No. 3 Cross Point Screw Driver.

AUTHORISED DISTRIBUTOR/DEALER COPY

Hero MotoCorp Ltd.

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Customer's Signature _____

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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 wear out, resulting in subsequent repair cost
Chain Sprocket Kit	▸ Noisy Operation ▸ Failure of chain can cause fatal accident

JOBS APPLICABLE TO PERIODIC SERVICES

- Wash the vehicle, blow dry with air at every service.
- Fuel line inspection at every service.
- Inspect throttle free play and operation at every service, adjust if necessary.
- Clean carburetor at first service then every 6000 km., adjust if necessary.
- Replace air cleaner element at every 15000 km.
- Inspect, clean spark plug at every service, adjust if necessary(replace at every 12000 km).
- Inspect the valve clearance at every service, adjust if necessary.
- Replace engine oil or top up as per the maintenance schedule.
- Clean engine oil strainer screen at first service then at every 6000 km.
- Clean engine oil centrifugal filter at first service then at every 6000 km.
- Inspect oil circulation at every service.
- Inspect electric starter operation at every service.
- Inspect, clean, lubricate and adjust the drive chain at every 2000 kms.
- Inspect the drive chain slider.
- Inspect battery voltage at every service and charge if required.
- Inspect brake shoe wear at every service, adjust if necessary.
- Clean and lubricate brake cam at second service, then at every 6000 km.
- Inspect brake pads, disc wear and brake fluid level at every service. Top-up if necessary (optional). Replace brake fluid once in every two years or 30000 km. whichever is earlier.
- Inspect all lamps, horn and switches at every service, adjust if necessary.
- Inspect headlamp focus at every service, adjust if necessary.
- Inspect clutch free play at every service, adjust if necessary.
- Lubricate the side stand and main stand at every service.
- Inspect and clean the side stand switch.
- Inspect fasteners and tighten to the specified torque (if required).
- Inspect wheels/tyres. Inflate tyre to specified pressure at every service.
- Inspect steering for smooth operation, adjust (if necessary) in every alternate service and lubricate at every 12000 km.
- Inspect rear suspension at every service.
- Inspect front suspension at every service, replace oil once in every 2 year or 30000 km. whichever is earlier.
- Inspect secondary air injection system at every 6000 km.
- Polish entire motorcycle.

SERVICE RECORD SHEET
To be Filled in by Supervisor

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

NOTE

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

SERVICE RECORD SHEET

To be Filled in by Supervisor

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

REMARKS (IF ANY)

SERVICE ADVICE SHEET

Normal wear and tear components replacement advice

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

Hero MotoCorp Ltd.

OWNERSHIP RECORD AND DATA

NAME_____

ADDRESS_____

MODEL _____ REGN. NO. _____

ENGINE NO._____ VIN_____

DATE OF PURCHASE _____ KM. READING _____

AUTHORISED DISTRIBUTOR/DEALER NAME _____

ADDRESS _____

_____

BATTERY MAKE_____ SERIAL NO. _____

AUTHORISED DISTRIBUTOR/DEALER
STAMP AND SIGNATURE