# PREFACE

Thank you for selecting a Hero MotoCorp **HUNTER.** 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 and strengthen the green supply chain. We are also using non asbestos brake shoes and engine gaskets which are environment friendly in nature.

This booklet is your guide to the basic operation and maintenance of your new Hero MotoCorp **HUNTER**. 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 you 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 💐

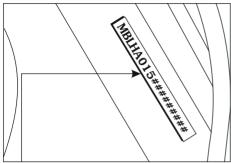
All information, illustration, photograph, directions, specifications and other contents covered in this owner's manual are based on the latest product information available at the time of its printing approval, and the accuracy or correctness of the same is not undertaken or guaranteed. Hero MotoCorp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

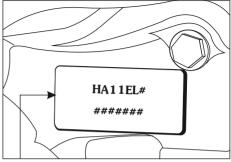
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# **Hero** WeCare

## MOTORCYCLE IDENTIFICATION





# **Engine No.** left crankcase.

Vehicle Identification Number (VIN) Location: Stamped on the right side of the Location: Stamped on the lower side of the steering head tube.

#### VIN: MBLHA015########

MBL	HA015	#	#	#	#	#####
Manufacturer	Vehicle	Check	Model Year	Plant	Month of	Production
code	Description	Digit		Code	Manufacturing	Serial Number

#### Engine No.: HA11EL########

HA11EL	#	#	#	#####	
Engine Description	Year of Manufacturing	Assembly Plant	Month of Manufacturing	Serial Number	

#### Model: HUNTER

Variants	VIN	Engine	
Kick start/Drum/Spoke wheel	HA015	HA11EL	

#### VIN and Engine No. may be required:

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

## PRODUCT SPECIFICATION

ITEM		SPECIFICATIONS				
Dimensions						
Overall length		1965 mm				
Overall width		720 mm				
Overall height		1072 mm				
Wheelbase		1235 mm				
Saddle height		835 mm				
Ground clearance		165 mm				
Weight						
Kerb weight		110 kg				
Capacities						
Engine oil		1.1 litres at disassembly and 1.0 litre at draining				
Fuel tank		10.5				
Fuel reserve		1.8 litres (Usable reserve)				
Front fork oil		163 ml ± 1.75 ml				
Engine						
Maximum power		∫ 5.5 kW @ 8000 rpm				
Maximum torque		<b>] 7.9 N-</b> m @ <b>5000</b> rpm				
Bore and stroke		50.0x49.5 mm				
Compression ratio		09:01				
Displacement		9 <b>7.2</b> cc				
Spark plug		NGK-CR7HSA, BOSCH-UR4AC, Champion-P-RZ9HC (Federal Mogul)				
Spark plug gap		0.6-0.7 mm				
	Intake (cold)	0.05 mm				
Valve clearance Exhaust (cold)						
Idle speed		1400±100 rpm				
Chassis and suspension						
Front Suspension		Telescopic Hydraulic Shock Absorbers				
Rear Suspension		Swingarm with 2 step adjustable Hydraulic				
		Shock Absorbers				
Caster angle		26°				

# PRODUCT SPECIFICATION

		SPECIFICATIONS
Tama alaa	Front	2.75 x 18-42P/4PR
Tyre size	Rear	3.00 x 18-52P
Brakes	Front (Drum ty	Dia. 130 mm
Drakes	Rear (Drum typ	e) Dia. 130 mm
Front Wheel		Spoke Wheel
Rear Wheel		Spoke Wheel
Transmission		
Primary reduction		3.722 (67/18)
Final reduction		3.143 (44/14)
Gear ratio, 1 <sup>st</sup>		3.182 (35/11)
2 <sup>nd</sup>		1.706 (29/17)
3 <sup>rd</sup>		1.238 (26/21)
<b>4</b> <sup>th</sup>		0.958 (23/24)
Electricals		
Battery		12V-2.5 Ah (Lead Acid Battery)
Alternator		96 W
Starting System		Kick Start
Headlamp (High/Low)		12V-35/35W (Halogen Bulb) Round-*MFR
Tail/Stop lamp		12V 5/21W MFR*
Turn signal lamp		12V-10Wx4 -MFR*
Meter Illumination		12V-1.7Wx2
Neutral indicator		12V-1.7W
Turn signal indicator		12V-3.0Wx2
Hi Beam indicator		12V-1.7W
Fuse		7 A

\* MFR stands for Multi-Focal Reflector

#### 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.

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#### **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 a you always wear a helmet which should conform as per your country standards, in addition to 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.

#### SAFE RIDING TIPS

Don't

## Do's:

- Always conduct simple pre-ride inspection (page 19).
- 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.

Never use cell phone while riding the motorcycle.

Hero

RideSafe

- 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 on 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

We strongly recommend that you use only genuine Hero MotoCorp accessories that have been specifically designed and tested for vour motorcycle. Hero MotoCorp cannot test all other accessories, you must be personally responsible for proper selection. installation and use of non Hero MotoCorp accessories. Check with your dealer for assistance and always follow these guidelines:

- 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 **PHONE NO**:

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 vour motorcycle's handling, stability and braking, making it unsafe to ride. Removing or modifying your motorcycle lamps, mufflers, emission control system or other equipment can also make your motorcycle not meeting applicable local laws & regulations.

#### ANTI-THEFT TIPS

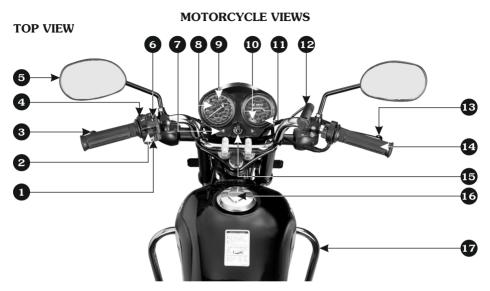
- Always lock the steering and never leave the key in the ignition switch.
- Be sure that the registration number of your motorcycle is accurate and correct.
- Never park your motorcycle in an isolated area. Park as far as possible in a designated parking area.
- > Park your motorcycle in a locked garage whenever possible.
- Use an additional anti-theft device of good quality.
- Mention 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	•
	•
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## 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 workshop, as per the service schedule, for an optimum performance and keep the emission level under check.
- Genuine Spares: Always insist on Hero MotoCorp genuine parts as spurious or incompatible spares and accessories can upset or deteriorate your motorcycle's running condition.
- Genuine engine oil: Hero 4T Plus SAE 10W30/20W50 SL Grade (JASO MA2) engine oil recommended by Hero MotoCorp and make sure you change it every 4000 km or 15 days 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.



- (1) Horn switch
- (2) Turn signal switch
- (3) Clutch lever
- (4) Headlamp switch
- (5) Rear view mirror
- (6) Dimmer switch
- (7) Turn signal indicator
- (8) Odometer
- (9) Speedometer

- (10) Neutral indicator
- (11) High beam indicator
- (12) USB charger
- (13) Front brake lever
- (14) Throttle grip
- (15) Ignition switch with steering lock
- (16) Fuel tank lid
- (17) Leg guard

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

#### MOTORCYCLE VIEWS

#### **LEFT SIDE VIEW**



- (1) Fuel valve
- (2) Carburetor
- (3) Gear shift pedal
- (4) Rider foot rest
- (5) Side stand

- (6) Pillion foot rest
- (7) Large pillion step
- (8) Rear turn signal lamp

10

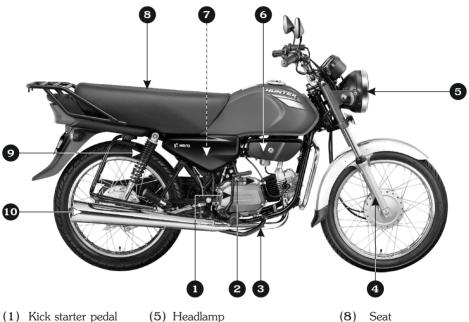
(9) Reflex reflector

- (10) Tail/Stop lamp
- (11) Rear carrier
- (12) Side cover left
- (13) Front turn signal lamp

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

#### **RIGHT SIDE VIEW**

MOTORCYCLE VIEWS



- (2) Oil level dipstick
- (3) Rear brake pedal
- (4) Front suspension

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

(9)

Rear suspension

(10) Exhaust muffler

Ð

(7) Battery compartment (inside)

(6) Utility box

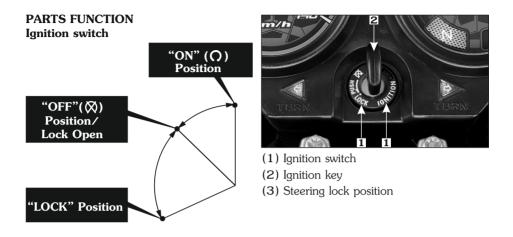
## PARTS FUNCTION

#### **Instruments and Indicators**

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



Sl. No.	Description	Function
(1)	Odometer	Shows accumulated mileage.
(2)	Speedometer	Indicates driving speed.
(3)	Turn signal indicator	Flashes when turn signal switch is operated.
(4)	High beam indicator	Light glows when headlamp is in Hi Beam.
(5)	Neutral indicator	Light glows when vehicle is in neutral.



Key Position	Function	Key Removal
"ON" ( <b>()</b> )	The engine can be started. Turn signal lamps, Horn, Tail/Stop lamp 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

#### LEFT HANDLEBAR CONTROLS



#### 1. Headlamp switch

The switch has two positions.

"☆" and "●" marked by white dot.

Position	Action
	"OFF"
-\$\$.	Headlamp "ON" Tail/Stop lamp Speedometer lamp

#### 2. Dimmer switch

Select " 🚺 " for high beam and " 🗊

D " for

## 3. Turn signal lamp switch

Shift the turn signal lamp 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 lamp after completing the turn, gently push the knob inside.

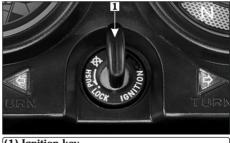


## 4. Horn switch

Press the switch to operate the horn.

#### **Steering lock**

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



(1) Ignition key

#### 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

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 **1.8** litres.



(3) "RES" position

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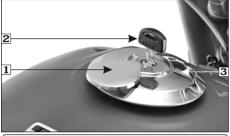
#### 💐 NOTE

- 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 10.5 litres including reserve supply of 1.8 litres.

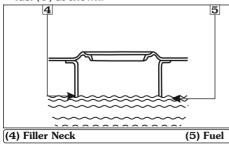
To remove the fuel tank lid (1), slide the keyhole cover (2) insert the ignition key (3), turn it clockwise and remove the lid.



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

16

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



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

#### CAUTION

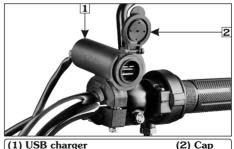
Do not park the motorcycle under direct sunlight as it causes evaporation of petrol due to heat and deterioration of paint gloss due to ultra violet rays.

# 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 petrol is refilled or where petrol is stored.

#### **USB CHARGER**

A USB charger (1) with a cap (2) located on the right handle bar to charge your mobile phone safely while riding.



To connect a mobile phone charger, first remove the cap from the USB charger and then plug in the charger cable to it.

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

Hero MotoCorp will not be responsible for damages caused due to use of non standard USB cable.

#### **CAUTION**

- Always place the device in a soft clean cloth/towel to avoid any damage due to road shocks while riding.
- > This port is for charging compatible USB devices.
- Multiple charging of USB devices have to be avoided, simultaneous charging may lead to slow or no charging.
- Do not leave the USB device and USB cable in the fuel tank cover when the vehicle is parked.
- Charge your device only when the engine is operational/while riding. Charging the USB device when the engine is "OFF" would lead to early discharge of battery.

## NOTE 💐

- Do not apply any soap solution, oil or grease inside the USB charger.
- Any personal belongings have to be removed before water washing to avoid damage.

- Always keep the USB port cap closed after use to prevent dust or water entry during rains/water wash.
- Do not direct water jet towards the port even with cap closed to avoid any short circuit. Always dry the area using a dry cloth or moisture free compressed air before use.

# TYRES

The tyres that are fitted on your motorcycle are designed to match the performance capabilities of handling, braking, durability and comfort. To safely operate your motorcycle, the tyres must be of recommended type and size, in good condition with adequate tread, and correctly inflated. The recommended tyres size is :

```
Front 2.75 x 18-42P/4PR
```

```
Rear 3.00 x 18-52P
```

#### **Air Pressure**

Properly inflated tyres provide the best combination of handling, tread life, and riding comfort. Generally, under inflated tyres wear unevenly, adversely affect handling, and are more likely to fail from being overheated.

Over inflated tyres make your motorcycle ride more harshly, are more prone to damage from surface hazards and wear unevenly.

Make sure the valve stem caps are secure.

If necessary, install a new cap.

The recommended "cold" type pressure are:

	Rider only	<b>Rider and Pillion</b>			
Front	1.75 kgf/cm <sup>2</sup> (25 psi)	1.75 kgf/cm <sup>2</sup> (25 psi)			
Rear	$2.00 \text{ kgf/cm}^2$ (28 psi)	$2.80 \text{ kgf/cm}^2$ (41 psi)			

#### CAUTION

Over inflation/Under inflation will affect the performance.



#### (1) Air pressure gauge

#### Inspection

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

Look for:

Bumps or bulges in the side of the tyre or the tread. Replace the tyre if you find any bumps or bulges.

- Cuts, splits or cracks in the tyre. Replace the tyre if you can see fabric or cord.
- Excessive tread wear.
- Also, if you hit a pothole or hard object, pull to the side of the road as soon as you safely can and carefully inspect the types for damage.

#### **Tread Wear**

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

# MINIMUM TREAD DEPTH:

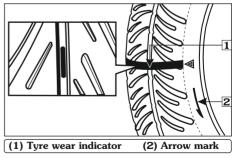
Front: 1.0 mm

Rear: 1.0 mm

Check the tread wear indicator for tyre wear.

#### Unidirectional Tyres

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



#### **WARNING**

- Using tyres that are excessively worn or improperly inflated can cause a crash in which you can be seriously hurt or injured.
- Operation with excessively worn tyres is hazardous and will adversely affect traction and handling.
- Follow all instruction in this owner's manual regarding tyre inflation and maintenance.
- > Under-inflation may result in the tyre slipping on or tyre coming off the rim.

## **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 very 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 27). Check for leaks.
- Fuel Level-Ensure sufficient fuel is available in the fuel tank for your journey (page 16). Check for leaks.
- Front and rear brake-Check operation. Adjust free play if necessary (page 36 & 37).

- Tyres-Check condition and pressure (page 17).
- Clutch-Check for smooth operation. Adjust free play (page 33).
- Drive Chain-Check condition and slackness (page 34). Adjust and lubricate if necessary.
- Throttle-Check for smooth opening and closing in all steering positions (page 31).
- Lamps and Horn-Check that headlamp, tail/stop lamp, turn signal lamps and horn function properly.
- Rear View Mirror-Ensure that the rear view mirror gives a good rear view when you are sitting on the motorcycle.
- Fitting & Fasteners-Check & tighten if necessary.
- Battery-Check electrolyte level (page 38)
- Steering-Check for smooth action and for easy maneuverability.

#### **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" ( $\overline{\mathbf{X}}$ ) and turn the choke "OFF" position. Close the throttle fully and crank the engine several time with the kick starter. Turn the ignition switch "ON" ( $\mathbf{O}$ ) and start engine without using the choke.

#### **Running In**

During first 1000 km, do not operate the motorcycle at more than 60 km/hr speed in

top gear, 45 km/hr in third gear, 30 km/hr in second gear and 15 km/hr in first gear. Avoid full throttle operation.

During initial running in. newly machined surfaces will be in contact with each other and these surfaces will wear in guickly. Running in precautions till 1000 km will reduce initial wear of engine components and increase its service life.

#### RIDING

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

## **Recommended Shifting Speed**

- $1_{nd}$  25 km/hr
- $2_{rd}^{nd}$  45 km/hr 3 th 70 km/hr
- $100 \,\mathrm{km/hr}$ 4



# CAUTION

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

# BRAKING

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

# A 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 along 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

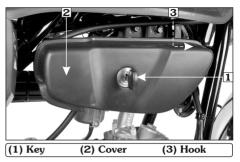
- Park the motorcycle on firm level surface to prevent overturning.
- While parking on side stand engage the first gear.

## UTILITY BOX

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

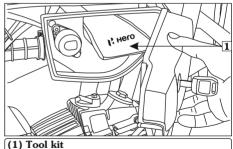
To open, insert the key (1), rotate it clockwise, pull the cover (2), and slide it sideways to disengaged it from the hook (3).

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



# **TOOL KIT**

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



Kit consists of following tool:

Tool Bag,

+, - No. 2 Driver,

- Grip
- Box wrench P16 x 14
- Spanner 10 x 12
- > Pin spanner

#### 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 workshop 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.

#### STARTING THE ENGINE



 Turn the ignition switch "ON" (**O**).



- 2. Turn the fuel valve "ON".



5. Open the throttle slightly & kick start the engine

conditions)

4 Pull the choke lever

upwards to "ON"

position as indicated (Use choke during cold



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



 Push the choke lever downwards to "OFF" position as indicated, after the engine gets sufficiently warmed-up to have a stable throttle response.

#### **WARNING**

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

# NOTE 💐

- 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.

#### MAINTENANCE SCHEDULE

Perform the Pre-ride Inspection (page 19) at each scheduled maintenance period.

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

The following Maintenance Schedule specifies all maintenance required to keep your 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.

- 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.
- \* More frequent cleaning may be required when riding in dusty areas.
- \*\* Replace engine oil once in every 4000 km. or 15 days, whichever is earlier.
- \*\*\* Inspect & maintain specified torque.
- \*\*\*\* Replace once in every two years or 30000 km, whichever is earlier.
- @ Visit Authorised Distributor/Dealer for inspection, cleaning, lubrication and adjustment of drive chain at every 500 km.
- **Note-1:** At higher odometer readings, repeat the frequency interval established here.
- **Note-2:** Replace fuel strainer at every 12000 km (early replacement is required incase of high petrol adulteration).
- Note-3: The engine oil replacement frequency with Hero 4T Plus SAE 10W30/20W50 SL Grade (JASO MA2) engine oil is less than 4000 km or 15 days, whichever is earlier.
- **Note-4:** Inspect the bearings free play, replace if necessary.
- Note-5: Replace front fork oil once in a every 2 years or 20000 km, whichever is earlier.
- **Note-6:** Inspect for any play in the mounting bushes, replace if necessary.

#### MAINTENANCE

Dear Customer,

# MAINTENANCE SCHEDULE

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	<b>1</b> <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	<b>4</b> <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>	<b>9</b> <sup>th</sup>	10 <sup>th</sup>
		DAYS	Every 15 days	Every 15 days	Every 15 days	Every 15 days	Every 15 days	Every 15 days	Every 15 days	Every 15 days	Every 15 days	Every 15 days
		KM NOTE-1	500- 750	4000	8000	12000	16000	20000	24000	28000	32000	36000
	Fuel Line	NOTE-2	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι	Ι
٩	Throttle Operation		I,A	I,A	I,A	I,A	I,A	I,A	I,A	I,A	I,A	I,A
٩	Engine Idle Speed/ Carburetor		C,A	А	C,A	А	C,A	А	C,A	А	C,A	А
	Air Cleaner element*		С	С	С	R	С	С	R	С	С	R
	Spark Plug		I,C,A	I,C,A	I,C,A	R	I,C,A	I,C,A	R	I,C,A	I,C,A	R
℀	Valve Clearance		I,A	I,A	I,A	I,A	I,A	I,A	I,A	I,A	I,A	I,A
	Engine Oil**	NOTE-3	0	I,T	0	I,T	0	I,T	0	I,T	0	I,T
⊁	Engine Oil Strainer Screen		С		С		С		С		С	
⊁	Engine Oil Centrifugal Filter		С		С		С		С		С	
	Oil Circulation		Ι	Ι	Ι	Ι	Ι	Ι	Ι	I	Ι	Ι
⊁	Drive Chain@			I,C,L,A at every 500 km			I,C	,L,A at ev	ery 500	km		
	Battery		Ι	Ι	I	Ι	Ι	I	I	I	I	Ι
	Brake Shoe Wear		I,A	I,A	I,A	I,A	I,A	I,A	I,A	I,A	I,A	I,A

ITEMS		SERVICE	<b>1</b> **	2 <sup>nd</sup>	3 <sup>rd</sup>	<b>4</b> <sup>th</sup>	$5^{\text{th}}$	<b>6</b> <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>	<b>9</b> <sup>th</sup>	10 <sup>th</sup>
		DAYS	Every 15 days	Every 15 days	Every 15 days	Every 15 days	Every 15 days	Every 15 days	Every 15 days	Every 15 days	Every 15 days	Every 15 days
		KM NOTE-1	500- 750	4000- 4500	8000- 8500	12000- 12500	16000- 16500	20000- 20500	24000- 24500	28000- 28500	32000- 32500	36000- 36500
•	Brake System (Brake Cam & Brake Pedal)			C,L		C,L		C,L		C,L		C,L
٦	Stop Lamp Switch		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
	Clutch		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
*	Nuts, Bolts & Fasteners***		Ι	Ι	Ι	I	Ι	Ι	Ι	Ι	Ι	Ι
⊁	Wheel Bearing	NOTE-4	Ι	Ι	Ι	I	Ι	Ι	Ι	Ι	Ι	Ι
⊁	Wheels/Tyres		Ι	Ι	Ι	I	Ι	Ι	Ι	I	Ι	Ι
⊁	Steering Head Bearing		Ι	I,A	Ι	I,L,A	Ι	I,A	I,L,A	I	I,A	I,L,A
⊁	Front Suspension/ Oil****	NOTE-5	Ι	I	Ι	I	Ι	I	Ι	I	Ι	Ι
۲	Rear Suspension	NOTE-6	Ι	Ι	Ι	I	Ι	Ι	Ι	I	Ι	Ι

#### ENGINE OIL

Use only Hero Genuine Engine Oil.

#### **BRAND**: Hero 4T plus GRADE: SAE 10W30/20W50 SL Grade (JASO MA2).

Manufactured by : 1. Tide Water Oil Co. (India) Ltd.

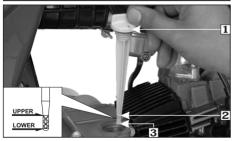
2. Savita Oil Technologies Limited.

3. Bharat Petroleum Corporation Limited.

#### **OIL CAPACITY: 1.1 litres ENGINE OIL LEVEL CHECK/** TOP UP PROCESS

# NOTE NOTE

\*Only if replacement is at less than 4000 km or 15 days, whichever is earlier.



1. Oil level dipstick 3. Lower level mark

2. Upper level mark

Check engine oil level each day before > Reinstall the oil level dipstick. operating the motorcycle.

The oil level dipstick (1) is on the right crankcase cover for measuring oil level. Oil > Stop the engine.

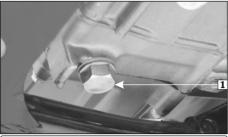
level must be maintained between the upper (2) and lower (3) level marks on the oil level dipstick. Do top up if oil level reaches towards the lower level mark or every 4000 km or 15 days, whichever is earlier.

- Park the motorcycle on its main stand.
- Start the engine & let it idle for 3-5 minutes.
- Stop the engine & place the motorcycle on its main stand on level ground, remove the oil level dipstick and wipe it clean.
- Reinsert the oil level dipstick without screwing it in and check the oil level.
- > If required, add the specified oil up to the upper level mark. Do not overfill.
- Quantity of oil to be filled is 1.0 litre during oil changes.
- Reinstall the oil level dipstick, and check for oil leaks.

# ENGINE OIL REPLACEMENT PROCESS

Replace engine oil once in every 4000 km or 15 davs, whichever is earlier. Drain engine oil with the engine warm and the motorcycle parked on its main stand.

- To drain the oil, remove the oil level dipstick and drain plug (1).
- After the oil has completely drained, make sure that the sealing washer is in good condition and reinstall the drain plug.
- Fill the crankcase through the oil filler hole with approximately  $\overline{1.0}$  litre of the recommended grade oil.
- Start the engine and allow it to idle for few minutes.



#### (1) Drain plug

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.

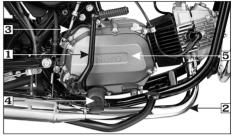
# **CAUTION**

- 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 thoroughly.
- Remove the kick starter pedal (1), muffler (2), disconnect the clutch cable (3) and rider foot rest (4). Remove the right crankcase cover (5).

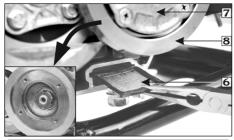
- Remove the oil filter screen (6) and wash it with non flammable or high flash point solvent (kerosene).
- Reinstall the filter screen.



- (1) Kick Starter Pedal(2) Muffler(3) Clutch Cable(4) Rider foot rest
- (5) Right crankcase cover
- Remove centrifugal filter cover (7) & clean centrifugal filter (8) with non flammable high flash point solvent (kerosene).
- Reinstall the centrifugal filter cover, right crankcase cover, kick starter pedal, rider foot rest and muffler.
- Fill the crankcase with clean engine oil as per specification (page 27).

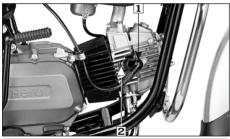
# 💐 NOTE

Clean filters as specified in the maintenance schedule.



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

#### SPARK PLUG



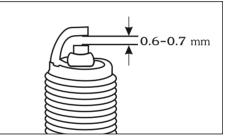
(1) Noise suppressor cap (2) Spark plug

#### Recommended spark plug:

NGK-CR7HSA, BOSCH-UR4AC, Champion-P-RZ9HC (Federal Mogul) 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.

- 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.



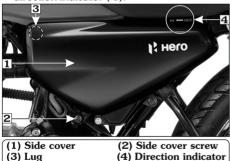
- Visually inspect the spark plug electrodes for wear. The center electrode should have square edges and the side electrode should not be eroded. Discard the spark plug if there is apparent wear or if the insulator is cracked or chipped.
- Make sure that the spark plug gap is 0.6-0.7 mm using a wire-type feeler gauge. If adjustment is necessary, bend the side electrode carefully. Make sure the plug washer is in good conditions.

- With the plug washer attached, thread the spark plug in by hand to prevent crossthreading.
- Tighten a new spark plug 1/2 turn with a 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

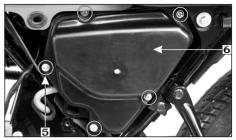
The air cleaner element is be serviced at regular intervals **(page 25)**. When riding in dusty areas, more frequent service may be necessary.

Remove the side cover (1) by removing side cover screw (2). Pull out lug (3) from the grommet and push the cover as per direction indicator (4).

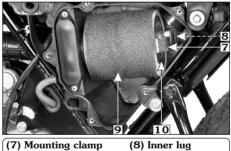


- Remove the air cleaner cover screws (5) and the cover (6).
- Pull out the filter assembly by separating the mounting clamp (7) from the inner lug (8). Separate air cleaner element (9) from the element holder (10).

(30)



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



(7) Mounting clamp
(8) Inner lug
(9) Air cleaner element
(10) Element holder

- Wash the element in non-inflammable or high flash point solvent (kerosene) and allow to dry throughly.
- Soak the air cleaner element in clean gear oil (SAE 80 or 90) and squeeze out the excess oil.

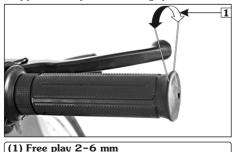
Install the air cleaner element, on holder, insert filter assy. into outlet duct & press gently to fix the mounting clamp in housing. Ensure cover lug should take proper seat on the other side of the mounting clamp.

# WARNING

Never use petrol or low flash point solvent for cleaning the air cleaner element. A fire or explosion could result.

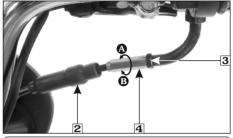
#### THROTTLE OPERATION Cable Inspection

Check for smooth rotation of the throttle grip from the fully open to the fully closed position. Check at full left and full right steering positions. Inspect the condition of the throttle cable from the throttle grip down to the 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**

Slide the boot (2), loose the lock nut (3) and turn the adjuster (4).



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

# VALVE CLEARANCE

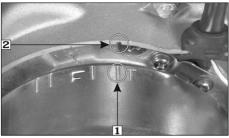
Excessive valve clearance will cause noise, and little or no clearance will prevent the valve from closing and cause valve damage and power loss. Check valve clearance at the specified intervals (**page 25**).

- Remove the magneto cover and two tappet covers.
- Rotate the flywheel anticlockwise and align the 'T' mark (1) with the index mark (2). 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.

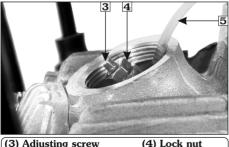
If they are tight the valves are open, rotate the flywheel  $360^{\circ}$  anticlockwise and re-align the 'T' mark with the index mark.



(1) 'T' mark

#### (2) Index mark

Check the clearance by inserting the feeler gauge (5) between the adjusting screw (3) and valve stem.



(3) Adjusting screw(5) Feeler gauge

# 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.

**Standard valve clearance (cold condition)** Intake 0.05 mm Exhaust 0.05 mm Adjust by loosening the lock nut (4) and turning the adjusting screw (3) until there is a slight drag on the feeler gauge. After tightening the lock nut (4), check the clearance.

Install the parts in the reverse order of removal

# 💐 NOTE

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

# CARBURETOR

#### Idle speed

The carburetor is factory pre-set 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 hereunder.

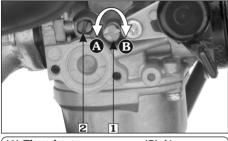
- Warm up the engine and park the motorcycle on the main stand.
- Adjust idle speed with the throttle stop screw (1).

# IDLE SPEED: 1400 ± 100 RPM

### **CAUTION**

Never adjust air screw (2). Air screw adjustment is to be done only by Authorised Distributor/Dealer.

If air screw is tampered it affects the overall performance characteristics of the vehicle.

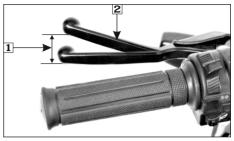


(1) Throttle stop screw(2) Air screw(A) Decrease rpm(B) Increase rpm

## CLUTCH

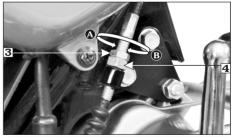
Clutch adjustment may be required if the motorcycle stalls when shifting into gear or tends to creep or if the clutch slips, causing acceleration to lag behind engine speed. Normal clutch lever free play (1) is 10-20 mm at the lever (2).

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.



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

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.



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

## 💐 NOTE

- > Check that the clutch cable routing is correct.
- If proper adjustment cannot be obtained or the clutch does not work correctly, visit your Authorised Distributor/Dealer workshop.

#### **Other Checks**

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

## **DRIVE CHAIN**

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

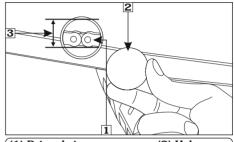
Poor maintenance can cause premature wear or damage to the drive chain and sprockets.

The drive chain (1) should be checked and lubricated as part of the Pre-ride Inspection (**page 19**). Under severe usage or when the motorcycle is ridden in unusually dusty areas more frequent maintenance will be necessary.

#### Inspection

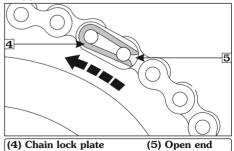
- ➤ Turn the engine "OFF" (Ø), park the motorcycle on its main stand and shift the transmission to neutral. Remove hole cap (2).
- Drive chain slack (3) should be adjusted to allow approximately 25 mm vertical movement by hand.

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.

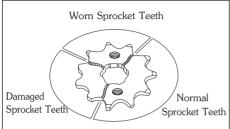


(1) Drive chain (2) Hole cap (3) Drive chain slack 25 mm

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.



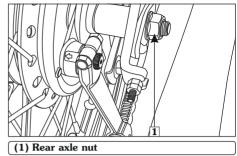
Inspect the sprocket teeth for wear or damage.

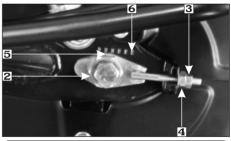


If the drive chain or sprockets are excessively worn or damaged, they should be replaced. Never use a new chain with worn out sprockets since this will result in rapid chain wear.

### Adjustment

- Park the motorcycle on its main stand with the transmission in neutral and the ignition switch "OFF" (𝔅) 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 corresponding scale graduations (6) on the both sides of the swing arm equally.





(2) Sleeve nut (3) Drive chain lock nut

(4) Drive chain adjusting nut

- (5) Index mark (6) Scale graduation
- 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.
- Tighten the rear axle nut and sleeve nut to the specified torque.

- Rear axle nut torque : 5.4 kgf-m.
- Sleeve nut torque: 4.4 kgf-m.
- Check the drive chain slack again.
- 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 37).

### Lubrication

- ➤ Turn the engine "OFF" (Ø), 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.

## CAUTION

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

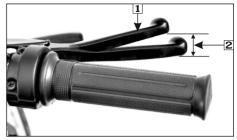
## NOTE 💐

Visit Authorised Distributor/Dealer for inspection, cleaning, lubrication and adjustment of drive chain at every 500 km.

## FRONT BRAKE

### Adjustment

- Park the motorcycle on its main stand.
- Measure the distance, the front brake lever (1) moves before the brakes start to take hold. Free play (2) should be 10-20 mm at the tip of the brake lever.
- If adjustment is necessary, turn the adjusting nut (3). Make sure that cut-out on the adjusting nut is seated on the brake arm pin (4) after making final free play adjustment.

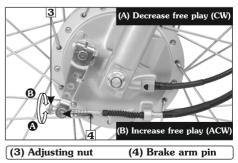


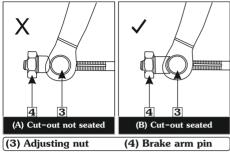
(1) Front brake lever (2) Free play 10-20 mm

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

## 💐 NOTE

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





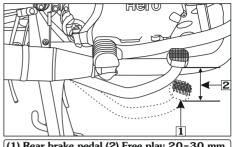
## **REAR BRAKE**

## Adjustment

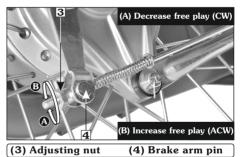
- Park the motorcycle on its main stand.
- $\triangleright$  Measure the distance brake pedal (1) moves before the brake starts to take hold. Free play (2) should be 20-30 mm.
- > If adjustment is necessary, turn the rear brake adjusting nut (3).
- Make sure that the cut-out on the adjusting nut is seated 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.

## NOTE

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



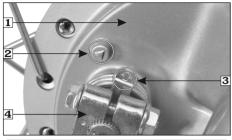
(1) Rear brake pedal (2) Free play 20-30 mm



## CW- Clockwise, ACW- Anticlockwise BRAKE WEAR INDICATORS

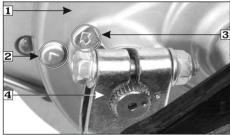
When the brake is applied, an arrow (3), fixed to the brake arm (4), moves towards a reference mark (2) on the brake panel (1). If the arrow aligns with the reference mark on full application of the brake, the brake shoes must be replaced.

**Front Brake Wear Indication** 



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

#### **Rear Brake Wear Indication**



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

#### BATTERY Location

The battery (1) is located behind the right sidecover.

## Specification: 1 2V 2.5 Ah



(1) Battery (2) Upper level mark (3) Lower level mark (4) Bolt (5) Bracket

#### Maintenance

Check the battery electrolyte. The electrolyte level must be maintained between the upper (2) and the lower (3) level marks on the side of the battery. If the electrolyte level is low, remove the bolt (4) and remove the bracket (5) for access to the battery. Remove the battery filler caps.

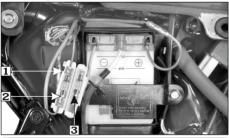
Carefully add distilled water to the upper level mark using a small plastic funnel.

### 💐 NOTE

- Use only distilled water in the battery. Tap water may shorten the service life of the battery.
- Dispose off used/old battery to Authorised Distributor and Dealer only.
- Insufficient electrolyte results in sulphation & plate damage.

#### **FUSE REPLACEMENT**

The fuse holder (1) is placed adjacent to the battery which consists of specified fuse 7A (2) and spare fuse (3).



(1) Fuse holder (2) Fuse (3) Spare fuse

## **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.

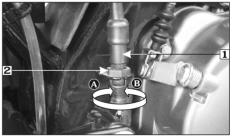
### CAUTION

- When checking battery electrolyte level or adding distilled water, make sure the breather tube is connected to the battery breather outlet.
- Do not attempt to start or drive the motorcycle without a charged, it can cause fusing of the bulbs and permanent damage to certain electrical components.
- Turn the ignition switch "OFF" (Ø) 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 37) should be adjusted before performing stop lamp switch adjustment. The procedure for adjusting stop lamp switch is as follows:

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



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

## HEADLAMP ADJUSTMENT

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

- Headlamp adjustment is done by loosening the bolt (1) located on both the sides of the headlamp assembly.
- > Park the motorcycle on level surface.
- Adjust the headlamp by loosening the bolts (1) and moving the headlamp assembly up and down for correct focus adjustment.



(1) Bolts

## WARNING

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

## 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 carrier while the motorcycle is not parked on stand. The

suspension action should be smooth and there should be no oil leakage.



**Rear Shock Absorber Adjustment** 



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

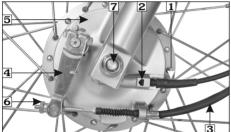
- In direction A Stiffer
- In direction B Softer

### **NOTE**

Always adjust both the rear shock absorber to the same position.

## **FRONT WHEEL**

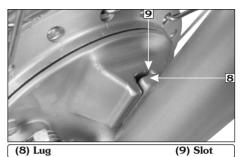
- > Raise the front wheel off the ground.
- Remove the speedometer cable (1) by pressing the lug (2) & then pull out the cable.
- Disconnect the brake cable (3) from brake arm (4) and brake panel (5) by removing the front brake adjusting nut (6).
- Remove the axle nut (7).
- > Remove the axle and then remove the wheel.



(1) Speedometer cable (2) Lug (3) Front brake cable (4) Brake arm (5) Brake panel (6) Front brake adjusting nut (7) Axle nut

## Installation

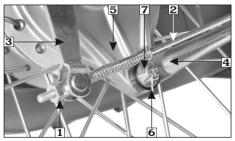
- Installation is in the reverse order of removal.
- Install the front wheel by ensuring that the lug (8) on the left fork is located in the slot (9) in the brake panel.
- Rotate the front wheel & see if the speedometer needle is working.
- Tighten the axle nut to the specified torque. Axle nut torque : 5.4 Kgf-m



- > Adjust the brake (page 36).
- After installing the wheel, apply the brake several times and check for free wheel rotation when released.

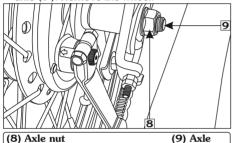
## **REAR WHEEL**

> Raise the rear wheel off the ground.



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

- 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 torque link (4) from the brake panel (5) by removing split pin (6) and nut (7).
- Remove the axle nut (8) and pull out the axle (9). Remove the wheel.



## Installation

- Reverse the removal procedure
- Axle nut torque : 5.4 kgf-m Brake stopper arm nut torque : 2.2 kgf-m
- Adjust the brake (page 37).
- 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

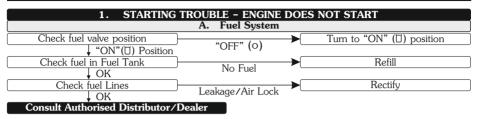
Follow the below mentioned steps for washing the motorcycle.

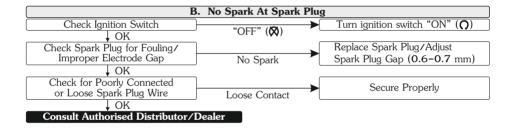
- Wet the motorcycle with light water spray. Avoid directing water to muffler outlets and electrical parts.
- Clean the headlamp lens and other plastic parts using a cloth or sponge dampened with a solution of mild detergent and water. Rub the soiled area gently rinsing it frequently with fresh water. 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 use high pressure water (or air). It can damage certain parts of the motorcycle.

#### **BASIC TROUBLESHOOTING**

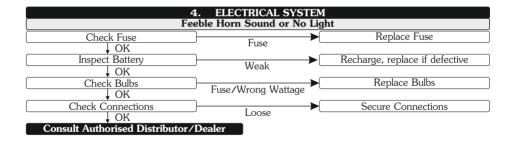






#### BASIC TROUBLESHOOTING







#### **DELIVERY CERTIFICATE**

No.: IB49A

CUSTOMER'S COR

I certify having taken delivery of one Hero MotoCorp **HUNTER** Motorcycle bearing the following particulars:-

Engine No	
VIN	
	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** 



#### Alongwith the motorcycle I have also received the following:-

- 2. 2 Nos. Keys
- 3. 1 Set of tools (for details see below)
- 4. Standard Accessories

5.	Battery	J	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 P 16 x 14, Spanner 10 x 12, Pin Spanner



#### **DELIVERY CERTIFICATE**

No.: IB49A

DISTRIBUTION OF SHUD

I certify having taken delivery of one Hero MotoCorp **HUNTER** 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.

#### Authorised Distributor/Dealer copy



#### Alongwith the motorcycle I have also received the following:-

- 2. 2 Nos. Keys
- 3. 1 Set of tools (for details see below)
- 4. Standard Accessories

5.	Battery	J	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 P 16 x 14, Spanner 10 x 12, Pin Spanner



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



## CONSEQUENTIAL DAMAGES ON USING NON-GENUINE PARTS

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



## JOBS APPLICABLE TO PERIODIC SERVICES

- > Wash the vehicle, blow dry with air at every service.
- > Inspect fuel line at every service. Replace fuel strainer at every 12000 km.
- > Inspect throttle free play and operation at every service, adjust if necessary.
- > Clean carburetor at first service then every 8000 km., adjust if necessary.
- Clean air cleaner element at every service. (replace at every 12000 km).
- Solution 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 every 8000 km.
- > Clean engine oil centrifugal filter at first service then every 8000 km.
- > Inspect oil circulation at every service.
- > Inspect, clean, lubricate and adjust the drive chain at every 500 km.
- > Inspect battery electrolyte specific gravity and top-up distilled water, if required. Check routing of over flow tube.
- > Inspect brake shoe wear at every service, adjust if necessary.
- > Clean and lubricate brake cam at second service. then at every 8000 km.
- > 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 fasteners and tighten to the specified torque (if required).
- > Inspect wheels/tyres. Inflate tyre to specified pressure at every service.
- > Inspect the bearing free play, replace if necessary at every service
- Inspect steering for smooth operation, adjust (if necessary) in every alternate service and lubricate at every 12000 km.
- Inspect front and rear suspension at every service.
- > Inspect front suspension at every service, replace oil once in every 2 year or 30000 km., whichever is earlier.
- 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)
Ι	500 - 750					
II	4000 - 4500					
III	8000 - 8500					
IV	12000 - 12500					
V	16000 - 16500					
VI	20000 - 20500					
VII	24000 - 24500					
VIII	28000 - 28500					
IX	32000 - 32500					
Х	36000 - 36500					

## 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 15 days from the date of previous service or as per the recommended schedule, whichever is earlier.

## **REMARKS (IF ANY)**

#### SERVICE ADVICE SHEET

#### Normal wear and tear components replacement advice

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