

# ROYAL ENFIELD OWNER'S MANUAL

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HIMALAYAN

EURO IV

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## **FOREWORD**

Welcome to the Royal Enfield family.

The Royal Enfield motorcycles are being manufactured by us since 1955 with state of the art technology, while taking care to maintain the traditional Classic looks.

**The Himalayan EFI that you have just bought, confirms to all applicable European homologation regulations pertaining to EURO IV.**

This manual will help to acquaint yourself with the important aspects of operation, care and minor maintenance of your new Royal Enfield Motorcycle. We recommend that you read this manual carefully, before using the motorcycle, to get maximum performance and to maintain your Motorcycle in top riding condition.

We have also detailed, vital safety information for the rider and for the care and safety of the motorcycle. Please read and follow these carefully to get maximum riding pleasure and for safe riding.

We request you to exercise utmost caution while riding. Please ride cautiously, safely and within the law. Always wear a helmet, good riding goggles and proper riding clothes while riding the motorcycle. Please also insist and ensure that your pillion also follows these while riding with you.

Log on to the exciting world of Royal Enfield website : [www.royalenfield.com](http://www.royalenfield.com) to get to know more about the company, its products and exciting news from time to time.

We wish you many years of riding pleasure with your Royal Enfield motorcycle.

**Royal Enfield team**

Chennai, India.

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## **NOTICE**

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All information in this manual is based on the latest product information available at the time of publication. Due to continuous improvements, there may be discrepancies between the information in this manual and your motorcycle. Royal Enfield reserves the right to make production changes at any time without prior notice and without incurring any obligation to make the same or similar changes to motorcycles previously built or sold.

All images shown are for reference to explain and need not to be exactly the same on the model you own. Technical specifications are subject to change without prior notice.

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## **NOTICE**

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### **Disclaimer**

1. Wash the motorcycle only with plain water. Do not use any cleaning agents or detergents, especially on painted surfaces, as it will cause discoloration and damage to the paint.
2. Do not polish your motorcycle as it will increase the gloss level and damage the paint.
3. Scratches or marks on painted / plastic surfaces cannot be removed OR touched up.
4. Warranty is not applicable for discoloration of the Silencer & Exhaust pipe, as it is a natural process that will happen during usage.

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## **IMPORTANT**

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- It is the responsibility of the Owner to read this manual and comply with safety guide lines, operating instructions, service & maintenance instructions set forth therein. Keep this manual in a convenient place for easy reference. DO NOT use the motorcycle until this manual has been read and understood thoroughly.
- If any information is not understood in the manual contact an authorized Royal Enfield dealer.
- If the motorcycle is being used by any friend, relative or others, it is responsibility of the owner to make certain that this owner's manual is read and fully understood prior to usage and has been instructed on it's safe and proper use.
- The motorcycle is designed for normal on road use only. Operation in off-road usage in some areas may be illegal and could be dangerous. Obey local law and regulations.
- In the event you sell your motorcycle to another person, it is your responsibility to hand over this manual along with the motorcycle.

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## **SAFETY DEFINITIONS**

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The information given under the titles : Warning, Caution and Note are for your safety and for the care and safety to your motorcycle and others. Please read these carefully and if disregarded may result in injury to yourself or others and damages to the motorcycle.



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### **WARNING**

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Indicates a potentially hazardous situation. Disregarding this message may result in injury to rider or other persons.

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### **CAUTION**

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This message if disregarded may result in damage to the motorcycle.

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### **NOTE**

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Indicates important and useful messages for clearer understanding.

All Images shown in subsequent pages are for reference to explain and need not to be exactly the same on the model you own.

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## PERSONAL & MOTORCYCLE INFORMATION

Name																												
Door No./ Street																												
Locality																												
City														Country														
Contact	Res :													Off :														
	Mobile :													Email :														
Licence No.														Valid till :														
Model														Color :														
Engine No.																												
VIN. No.																												
Tyre make	Front :													Rear :														
Tyre Nos.	Front :													Rear :														
Battery make														Battery No.														
Sold by																												
Date of Sale																												

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## **RULES OF THE ROAD**

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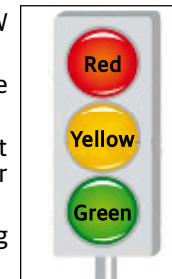
- Be sure your number plate is installed in the position specified by law and is clearly visible at all times.
- Ride at a safe speed that is consistent with the type of road surface you are on. Pay strict attention to whether the surface is :
  - \* Dry
  - \* Oily
  - \* Icy
  - \* Wet
- Watch for loose debris, slippery substances or loose gravel that can hamper the stability of your vehicle.
- DO NOT exceed the legal speed limit or drive too fast for existing conditions. Always reduce speed when poor driving conditions exist. High speed increases the influence of any other condition affecting stability and increases the possibility of loss of control.
- Keep to the correct side of the road center line when meeting oncoming vehicle.

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## **RULES OF THE ROAD**

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- Always sound your horn, actuate your turn signals, and exercise caution when passing other vehicles going in the same direction. Never try to pass another vehicle going in the same direction at street intersections, on curves, or when going up/or down a hill.
- At street intersection give the right-of-way to the vehicle on your left or right. DO NOT presume you have the right-of-way.
- Always signal when preparing to stop, turn or pass.
- While turning either right or left, watch for pedestrians, animals, as well as vehicles.
- All traffic signs, including manual controls at intersections, should be obeyed promptly. SLOW DOWN at traffic signs near schools and CAUTION signs at railroad crossings.
- When intending to turn, signal at least 100 feet (30.5 meters) before reaching the turning. Be close to the center line (unless local rules require otherwise), slow down and then turn carefully.
- Never jump a traffic light. When a change is imminent from GO to STOP (or vice versa) at intersections, slow down and wait for the light to change to green. Never run through a yellow or red traffic light.
- DO NOT leave the curb or parking area without signaling. Be sure your way is clear to enter moving traffic. A moving line of traffic always has the right-of-way.



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## **RULES OF THE ROAD**

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- Park your motorcycle on a firm and flat surface to prevent it from falling over.
- Protect your motorcycle against theft. After parking your motorcycle, remove Ignition key from switch and lock the steering head.

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### **SIDE VIEW MIRRORS**

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Your motorcycle is equipped with convex mirrors and have a curved surface. This type of mirror is designed to give a much wider view to the rear than a flat mirror; however, cars and other objects seen in this type of mirror will look smaller and farther away than when seen in a flat mirror.

Use care when judging the size or distance of objects seen in these mirrors.



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### **NOTE**

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To help you establish the relative distance of vehicles behind your motorcycle, adjust each mirror in such a way, that a small portion of your shoulder is visible and a large portion behind your motorcycle is seen clearly.

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### **CAUTION**

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DO NOT high pressure water jet on mirror use only water spray cleaning and wipe with clean dry cloth.  
Objects in the mirror may be closer than they appear.

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## **SAFE OPERATING RULES**

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- Before operating your new motorcycle, it is your responsibility to carefully read and follow the operating and maintenance instructions detailed in this manual for your own safety, your motorcycle and that of others.
- Know and respect the rules of the road. Be a safe rider for your own safety and for other road users.
- Before starting the motorcycle, check for proper operation of brakes, clutch, gear shifter, handle bar controls, tyre pressures, fuel and oil levels.



### **WARNING**

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Royal Enfield cautions you against the use of certain nonstandard parts such as aftermarket and custom made extended front forks or suspensions, which may adversely affect performance and handling. Removing or altering original parts may adversely affect performance and could result in an accident causing serious injury.

- Use only genuine Royal Enfield spare parts and approved accessories. Use of other manufacturer's performance parts may affect the performance of your motorcycle and render the motorcycle void of warranty. See your Royal Enfield Authorized Dealer for details.

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## SAFE OPERATING RULES

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- Whenever refuelling your motorcycle, please exercise utmost caution and carefully observe the following rules :
  - ★ **DO NOT** smoke and please ensure that there are no open flames or sparks near the motorcycle, when refuelling OR servicing the fuel system.
  - ★ **Switch OFF** mobile phones and other hand held electronic devices.
  - ★ Open the fuel filler cap slowly.
  - ★ Refuel in a well ventilated area with the engine turned off.
  - ★ **DO NOT** fill the tank to its brim. Please fill fuel only till the bottom of the filler neck insert, so as to leave air space in the fuel tank to allow for fuel expansion.



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### WARNING

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Gasoline is extremely flammable and highly explosive. Use care when handling gasoline. Always stop the engine when refuelling or servicing the fuel system. Do not smoke or allow open flames or sparks near gasoline. Do not store motorcycle with gasoline in the tank, within the home or garage where open flames, pilot lights, sparks or electric motors are present. Inadequate safety precautions could cause an explosion or fire which could result in damage to property, serious injury.

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## **SAFE OPERATING RULES**

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- A new motorcycle must be operated according to the special break-in-procedure. See BREAK-IN-THE FIRST 300 Miles (500Kilometers) section in this manual.
- Operate motorcycle only at moderate speeds and out of traffic until you have become thoroughly familiar with its operation and handling characteristics under all conditions.
- **DO NOT** exceed the legal speed limit or drive too fast for existing conditions. Always reduce speed when poor driving conditions exist. High speed increases the influence of any other condition affecting stability and increases the possibility of loss of control.

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### **NOTE**

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If you are an inexperienced rider we recommend that you obtain formal training on correct motorcycle riding techniques and become thoroughly familiar with the operation of your particular motorcycle. New riders should gain experience under various conditions while driving at moderate speeds.

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## SAFE OPERATING RULES

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### WARNING

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Avoid overspeeding and never travel over the speed limit. Excessive speed may cause loss of control and could result in an accident causing serious injury.

- **DO NOT** exceed 70 MPH (110 km/h) riding solo.
- **DO NOT** exceed 55 MPH (90 km/h) when carrying a passenger or cargo.

Pay strict attention to road surfaces and wind conditions. Any two wheeled motorcycle may be subject to the following upsetting forces :

- ★ Wind blasts from passing trucks.
- ★ Rough uneven road surfaces.
- ★ Slippery road surfaces.

These forces may affect the handling characteristics of your motorcycle. If this happens, reduce speed and guide the motorcycle with a relaxed grip to a controlled condition. Do not brake abruptly or force the handlebar.



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## SAFE OPERATING RULES

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- Operate your motorcycle defensively. Remember, a motorcycle does not afford the same protection as an automobile in an accident. One of the most common accident situations occurs when the driver of the other motorcycle fails to see or recognize a motorcycle and turns into the oncoming motorcyclist.
- Wear an approved helmet, clothing, and foot gear suited for riding a motorcycle. Bright OR light colors are best for greater visibility in traffic, especially at night. Avoid loose, flowing garments and scarves.
- When carrying a pillion rider, **it is your responsibility** to instruct them on proper riding procedures.
- **DO NOT** allow other individuals, under any circumstances, to operate your motorcycle unless you know they are experienced, licensed riders and are thoroughly familiar with the operating conditions of your motorcycle.



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### WARNING

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Maintain the recommended tyre pressure. Ensure the front and rear wheels are correctly aligned and the tyres are seated evenly & properly in the rims. Check for correct tightness of the spokes in the rims. Inspect your tyres periodically and replace tyres with approved tyres only. Failure to do so can lead to improper balance, abnormal tread wear, poor handling and could result in serious injury.

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## SAFE OPERATING RULES

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### WARNING

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Royal Enfield recommends replacement of any tyre punctured or damaged. In some cases small punctures in the tread area may be repaired from within the demounted tyre by your Royal Enfield Authorized Dealer. Speed should not exceed 60 Km/h (40 MPH) for the first 24 hours after repair and the repaired tyre should Never be used over 90 Km/h (55 MPH).

In emergency situations, if a temporary repair is made ride slowly with as light a load as possible until the tyre is permanently repaired or replaced.

Failure to heed this warning could result in serious injury.

- Safe motorcycle operation requires alert mental judgement combined with a defensive driving attitude. **DO NOT** allow fatigue, alcohol or drugs to endanger your safety or that of others.
- Maintain your motorcycle in proper operating condition in accordance with the Maintenance intervals chart in this Owner's Manual.

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## **SAFE OPERATING RULES**

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### **WARNING**

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DO NOT operate motorcycle with a loose, worn or damaged steering system, including the front and rear suspension system. Contact your Royal Enfield Authorized Dealer for repair of steering or suspension system. Damaged steering or suspension components may adversely affect handling which could result in serious injury.



### **WARNING**

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Regularly inspect rear shock absorbers and front forks for any defective suspension can adversely affect stability and handling which could result in serious injury.



### **WARNING**

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For your personal welfare, all the listed service and maintenance recommendations should be performed. Lack of regular maintenance at the suggested intervals may affect the safe operation of your motorcycle, which could result in serious injury.

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## **SAFE OPERATING RULES**

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### **WARNING**

Avoid any contact with the exhaust system. Wear clothing that will completely cover the legs while riding. The exhaust system gets very hot when the engine is running and remains too hot, even after the engine is turned off. Failure to wear proper or protective clothing could result in serious injury.



### **WARNING**

Exhaust gases contains poisonous carbon monoxide and chemicals, known to cause Cancer, Birth Defects or other reproductive defects.

DO NOT INHALE exhaust gases. Never stand close to the exhaust system of the motorcycle when the engine is running.



### **WARNING**

Motorcycle batteries contain lead and lead components, acids and chemicals known to cause cancer, birth defects or other reproductive harm. Exercise extreme caution while handling a battery. Wash hands thoroughly whenever a battery is handled.

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## **SAFE OPERATING RULES**

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### **WARNING**

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Consult your Royal Enfield Authorized Dealer regarding any questions or problems that occur in the operation of your motorcycle. Failure to do so may aggravate an initial problem, cause costly repairs, jeopardize your personal safety and could result in serious injury.



### **WARNING**

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Use only genuine Royal Enfield replacement fasteners tightened to the proper torque (See your Royal Enfield Work Shop Manual). We caution you against the use of certain nonstandard parts such as aftermarket and custom made fasteners which may not have specific strength, finish and type requirements to perform properly in the assembly and its environment. The use of any nonstandard parts, including fasteners, could result in serious injury.

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## **SAFE OPERATING RULES**

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### **WARNING**

DO NOT exceed the Gross Motorcycle Weight Rating of your motorcycle. The Gross Motorcycle Weight Rating (GVWR) is shown on the information plate, located on the frame Down tube. (GVWR is the sum of the weight of the motorcycle, accessories, and the maximum weight of the rider, passenger and cargo that may be safely carried.) Exceeding GVWR may lead to instability of the motorcycle, which could cause an accident and result in serious injury.



### **WARNING**

DO NOT tow a disabled motorcycle. The steering and handling for the disabled motorcycle will be impaired due to the force of the towline. If a disabled motorcycle must be transported, use a truck or a trailer. Towing a motorcycle may cause loss of control of the motorcycle in the front, leading to an accident resulting in serious injury.



### **WARNING**

DO NOT pull a trailer behind a motorcycle. Towing a trailer may cause reduced braking efficiency, tyre overloading and unstable handling. Towing a trailer may cause loss of control of the motorcycle in the front, leading to an accident resulting in serious injury.

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## **SAFE OPERATING RULES**

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### **SITTING POSTURE**

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Correct sitting posture is a must for stable and safe riding.

- Sit with your shoulders completely relaxed.
- Do not lock your elbows and retain them at a slight bend to enable maneuvering.
- Hold the handle grip close to its inner end.
- Lightly grip the fuel tank with your knees.
- Keep your toes in "straight ahead" direction.
- Before turning, look extensively in the rear view mirror, without turning your head.

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### **BRAKING**

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- Apply front and rear brakes gently and simultaneously for maximum braking efficiency.
- Please use utmost caution while applying brakes, especially while riding under wet or bad road conditions.

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## **SAFE OPERATING RULES**

---



### **WARNING**

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The hydraulic disc brakes fitted on your motorcycle requires very less effort. Applying any one of the brakes suddenly may lock the wheels. Failure to adhere to this warning may cause loss of control on the motorcycle, leading to a potential accident, resulting in serious injury to both rider and other road users, besides causing severe damage to the motorcycle.



### **WARNING**

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Brake pad wear will be increased if the motorcycle is used frequently off road. Always inspect the brake pads more frequently if the motorcycle is used off-road & replace the brake pads before they become worn to or beyond the minimum service thickness. Riding the worn brake pads may reduce braking efficiency, leading to loss of motorcycle control and an accident.

DONOT place the foot on the brake pedal while riding unless braking is required. Because this will lead to premature wear of brake pad.



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## TECHNICAL SPECIFICATIONS

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### ENGINE

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Engine Type .....	Single Cylinder, 4 Stroke, SOHC, Air cooled, Fuel Injection
Bore .....	78 mm
Stroke .....	86 mm
Displacement .....	411cc
Compression ratio .....	9.5:1
Max Power .....	24.5 bhp (18.02 KW) @ 6500 rpm
Max Torque .....	32 Nm @ 4000 rpm
Idle rpm .....	1250 $\pm$ 50 rpm @ EOT 80 deg
Starting System .....	Electric Start
Air filter element .....	Paper element
Lubrication .....	Forced Lubrication, Wet sump
Engine oil capacity .....	2.3 L (Initial fill only), 2.0 L (Subsequent Refills)

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## **TECHNICAL SPECIFICATIONS**

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Engine oil grade .....	SAE 15W 50 API SL Grade JASO MA 2
Cooling .....	Air cooled with Oil cooler

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### **IGNITION SYSTEM**

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Ignition system .....	Electronic Ignition, ECU / Variable
Spark plug .....	Bosch - UR5CC
Spark plug gap .....	0.7 to 0.8 mm

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### **TRANSMISSION**

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Clutch .....	Wet, Multi Plate
Primary drive .....	Gear
Primary ratio .....	2.312:1
Gear box .....	5 Speed, Constant Mesh

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## TECHNICAL SPECIFICATIONS

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### Gear Ratios

1st Gear .....	1 <sup>st</sup>	2.916:1
2nd Gear .....	2 <sup>nd</sup>	1.833:1
3rd Gear .....	3 <sup>rd</sup>	1.428:1
4th Gear .....	4 <sup>th</sup>	1.173:1
5th Gear .....	5 <sup>th</sup>	1:000:1
Secondary Drive .....	5/8" Chain & Sprocket	
Secondary Ratio .....	2.533:1	
Drive Chain links .....	110 links	

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## TECHNICAL SPECIFICATIONS

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### CHASSIS

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Frame .....	Half duplex split cradle
Suspension    Front .....	Telescopic, Hydraulic Damping, Front wheel travel: 200 mm
Rear .....	Swing arm with Linkage type Hydraulic damping Mono shock, Rear wheel travel: 180 mm
Brakes	
Brake system .....	Dual channel ABS
Front Disc .....	300mm Dia disc.
Rear Disc .....	240mm Dia disc.
Tyre size      Front .....	90 / 90 - 21
Rear .....	120 / 90 - 17

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## TECHNICAL SPECIFICATIONS

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### Tyre Pressures

Solo	Front .....	25 PSI / 1.75 Kg/cm <sup>2</sup>
	Rear .....	32 PSI / 2.25 Kg/cm <sup>2</sup>

### With Pillion

	Front .....	27 PSI / 1.89 Kg/cm <sup>2</sup>
	Rear .....	34 PSI / 2.39 Kg/cm <sup>2</sup>

Steering lock ..... In built

Fuel tank capacity\* ..... 15 ± 0.5 litres approx \*

Low fuel warning ..... Fuel Gauge (Red zone) 5.5 ± 0.5 litres approx.\*

Dead stock (unusable fuel) ..... 0.5 litre approx.\*

* The above values are approximate and the actual capacity may vary with each fuel tank .
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## **TECHNICAL SPECIFICATIONS**

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### **ELECTRICALS**

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Flywheel magneto .....	221W @ 1500 rpm
Generation .....	Alternator, III Phase
System .....	12V - DC
Battery .....	12V - 8 AH MF
Head lamp .....	12V, H4-60/55W - BULB
Tail lamp / Brake lamp .....	12V - 4/1W LED
Licence Plate illuminator .....	12V - LED
Front position lamp .....	12V - LED
Speedometer lamp .....	12V - LED
Hi beam indicator .....	12V - LED
Neutral lamp telltale .....	12V - LED

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## TECHNICAL SPECIFICATIONS

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Turn signal telltale .....	12V - LED
Turn signal .....	12V, 10W* 2 Nos.
Horn .....	12V, 2.5 Amp.
Starter Motor .....	12V, 0.7 KW
Instrument Cluster .....	Digital cluster with main and compass LCD
Side Stand indicator .....	LCD Indication



### **WARNING**

Using bulbs / electrical gadgets other than specified rating may lead to overloading / erratic behaviour / premature failure of electrical system.

Modifications or fitments which are not approved by Royal Enfield, will seriously affect the performance of the vehicle and will render the warranty void.

---

## **TECHNICAL SPECIFICATIONS**

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### **DIMENSIONS**

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Length .....	2190 mm
Width .....	840 mm
Height .....	1360 mm
Wheel base .....	1465 mm
Ground clearance. ....	220 mm
Saddle Height .....	800 mm

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### **WEIGHTS**

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Kerb weight (90% fuel&oil) .....	192 kgs.
Max. Pay load .....	365 Kgs.

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- Values / Dimensions mentioned above are for reference only.
- In view of continuous improvements being done on our motorcycles, the specifications are subject to change without prior notice.



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## RECOMMENDED LUBRICANTS

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ENGINE OIL	
Grade	SAE 15W 50 API SL Grade JASO MA 2 Semi Synthetic
Capacity	2.3 Ltrs. (First Fill only ) 2.0 Ltrs. Approx. (during oil & filter element replacement in periodical maintenance)

FRONT FORK OIL	
Grade	2W/35
Capacity	455 ml/leg

BRAKE FLUID	
Grade	DOT 4
Capacity	Frt./Rr. 50ml

DO NOT MIX DOT 4 Grade brake fluid with other grades.

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### CAUTION

Using Non Recommended / In-Correct oils, can cause serious damage to the moving parts, affect performance of the motorcycle AND void the warranty.

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### NOTE

Recommendation subject to change without notice.

## MOTORCYCLE IDENTIFICATION NUMBER - DETAILS

The VIN is a 17 digit number punched on the right side steering head tube and in the information plate rivetted to the frame down tube.

Sample VIN :

ME3 X X XX X X G X XXXXX

Manufacturer's code

Type of Frame

Type of Engine

Variant / Version

Ignition System

Transmission Type

Production Year

(2016: G, 2017: H, etc.)

Assembly factory

(C-Chennai, K-Kanchipuram)

Production Serial No.

---

## MOTORCYCLE IDENTIFICATION NUMBERS

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### FRAME NUMBER

---

Punched on steering head tube right side.



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### VIN INFORMATION PLATE

---

Riveted on the frame down tube right side.



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### CAUTION

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It is illegal to tamper with OR alter the VIN / Engine numbers of the motorcycle as it will not only against the law BUT will render the vehicle registration AND warranty VOID.

## ENGINE NUMBER - DETAILS

The engine number is punched on the left hand side Crankcase. It is the means of identification of the Engine and its production details. Please do not tamper with the engine number as it is prohibited by law.

	U	5	S	5	F	X	X	X	X	X	X	X
Engine Family	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Engine Capacity	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Type of Start	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Type of Transmission	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Fuel Feed	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Manufacturing Plant (0-TVT, 1-ORG)	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Year of Manufacture (G-2016, H-2017, ...)	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Month of Manufacture (A-Jan., H-Aug., K-Sep., N-Dec.)	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Production Serial Number	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____



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## LOCATION OF KEY PARTS

---



1. Front Trafficator Right Side
2. Horn
3. Oil Level Window
4. Rear Brake Pedal
5. Rider Foot rest Right Side
6. Pillion Foot rest Right Side
7. Rear Trafficator Right Side

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## LOCATION OF KEY PARTS

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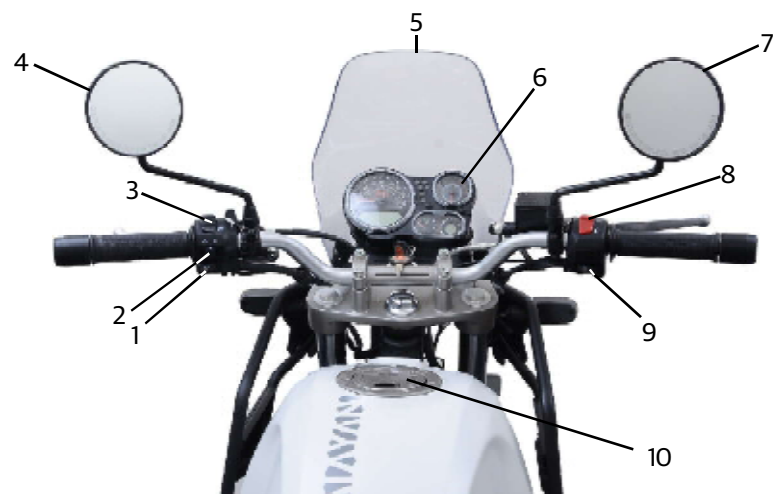


1. Front Trafficator Left Side
2. Head Lamp
3. Tail Lamp
4. Rear Trafficator Left Side
5. Licence plate illuminator
6. Pillion Foot rest Left Side
7. Side Stand
8. Center Stand
9. Rider Foot rest Left Side
10. Gear Change Lever
11. ABS Module
12. Canister

---

## LOCATION OF KEY PARTS

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1. Horn Button
2. Turn Signal Switch
3. Head Lamp Dip Switch
4. Rear View Mirror Left Side
5. Wind Shield
6. Instrument Cluster
7. Rear View Mirror Right Side
8. Engine Stop Switch
9. Electric Start Switch
10. Fuel Tank Cap

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## **OPERATION OF CONTROLS**

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### **STEERING LOCK**

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#### **LOCKING:**

- Turn handle bar to extreme left or right position.
- Switch OFF ignition, gently depress key and turn anticlockwise further till steering is locked and remove key.



#### **UNLOCKING:**

- Insert key, turn clockwise to ignition OFF position. If required, gently shake handle bar to help unlock steering easily.

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### **CAUTION**

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Do not force or attempt to lock / unlock steering if the handle bar is not in extreme left or right side. Failure to adhere to this caution will damage the lock and also cause the key to bend or break.



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## **OPERATION OF CONTROLS**

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### **WARNING**

After unlocking steering AND before starting engine, check the handle bar free movement by turning to both left and right sides, several times.

Failure to do so may cause unstable riding, leading to a potential accident, resulting in serious injury to both rider and other road users, besides causing severe damage to the motorcycle.

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### **FUEL TANK CAP**

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#### **OPENING:**

- Lift flap and insert key
- Turn key clockwise to enable cap to unlock and spring up.



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### **NOTE**

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Key CANNOT be removed when fuel tank cap is open.

---

## OPERATION OF CONTROLS

---

### CLOSING:

- Gently depress cap till it is firmly locked in place and key can be removed.
- Remove key and close flap.



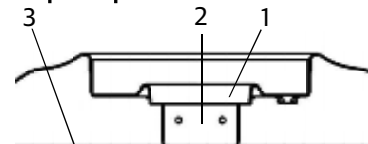
### WARNING

DONOT overfill the fuel tank, stop filling when the fuel reaches bottom of anti- splash plate. Because fuel expands when it heats up, heat from engine or the sun can cause fuel spill out of fuel tank.

Petrol is highly explosive. Please ensure there are no open flames or sparks nearby while refueling and fill fuel tank only in a well ventilated area.

Please ensure petrol does not spill on painted surfaces. Wipe immediately incase fuel spills over as otherwise it will leave a permanent stain on the painted surfaces.

### Anti splash plate



1. Fuel Filler Collar
2. Anti-Splash Plate
3. Maximum Fuel Level

---

## OPERATION OF CONTROLS

---

### IGNITION SWITCH

---

⊗ OFF    ○ ON

---

#### NOTE

- Key can be removed only if ignition is in OFF or steering is locked.



---

#### **WARNING**

Switch OFF ignition switch whenever engine is not running. Failure to do so will cause the battery to discharge as the headlamp will remain continuously ON when ignition switch is in ON position.

---

#### **WARNING**

DO NOT switch OFF ignition while riding the motorcycle. Doing so can cause a potential accident, resulting in serious injury to both rider and other road users, besides causing severe damage to the motorcycle.

---

## OPERATION OF CONTROLS

---

### ENGINE STOP SWITCH


---

 Engine OFF       Engine ON



### E-START SWITCH

---

 Depress & hold till engine starts.



### HORN

---

 Press





---

## OPERATION OF CONTROLS

---

### DIMMER SWITCH

---

 High beam    Low beam



### DAY FLASH




---

Press for Head Light Flash.



### TURN SIGNAL SWITCH

---

-  Left turn signal ON
-  OFF (Push to cancel)
-  Right turn signal ON



---

## **OPERATION OF CONTROLS**

---

### **MANUAL BI STARTER (CHOKE)**

---

Depress and hold to stabilise idling RPM in cold condition / first time starting in cold mornings.



### **RIDER & PILLION SEAT**

---

- Locate key on left side & turn clock wise Lift pillion seat and remove.
- Lift front seat from rear & remove.



### **DOCUMENT HOLDER**

---

- Useful for storing motorcycle documents and owners manual.
- Remove the pillion Seat.
- Gently press on top to release the tabs from the frame and open slightly.
- To completely remove, release the bottom tabs from the frame by pulling out gently.
- When washing the motorcycle, be careful not to flood this area with water.



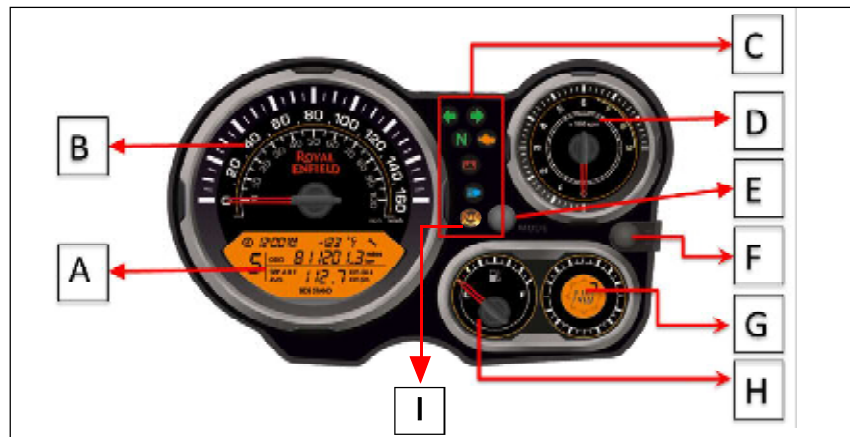
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## OPERATION OF CONTROLS

---

### INSTRUMENT CLUSTER EURO IV

---



A. Main LCD
B. Speedometer (KM major)
C. Tell tales
D. Tachometer
E. Mode button
F. Select button
G. Compass display
H. Fuel gauge
I. ABS

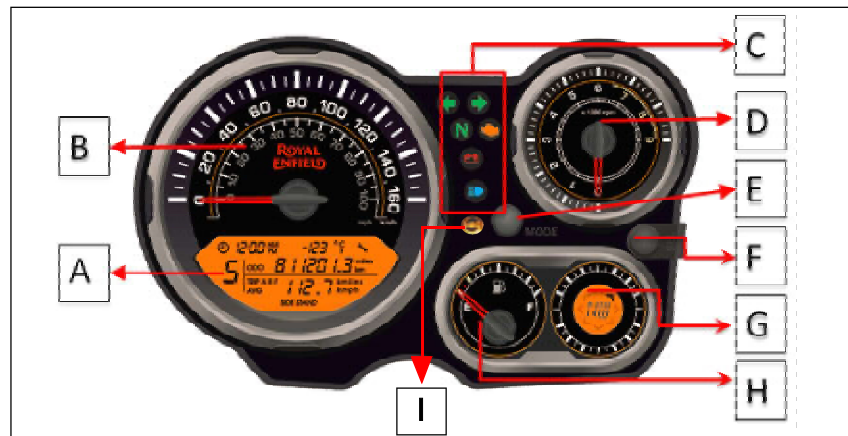
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## OPERATION OF CONTROLS

---

### INSTRUMENT CLUSTER UK MODEL

---



A. Main LCD
B. Speedometer miles major
C. Tell tales
D. Tachometer
E. Mode button
F. Select button
G. Compass display
H. Fuel gauge
I. ABS



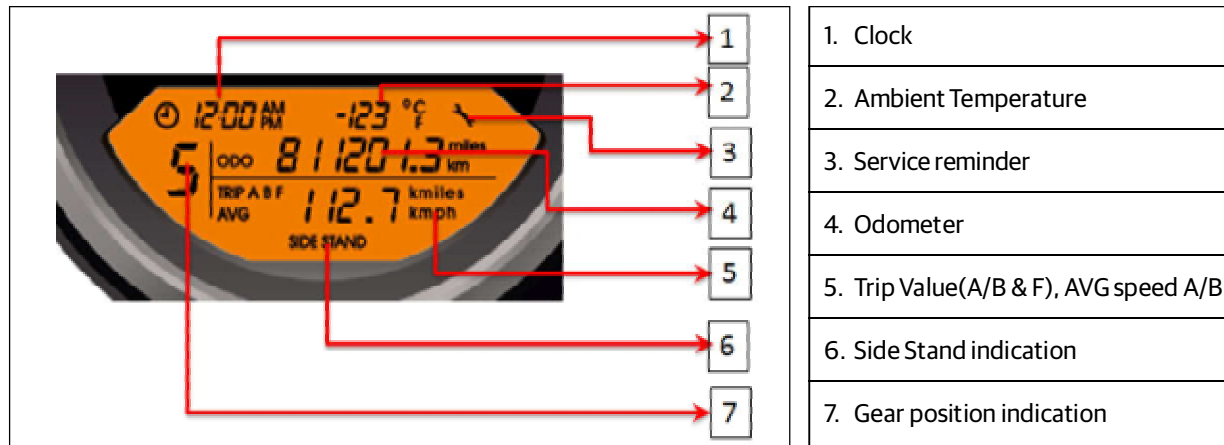
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## OPERATION OF CONTROLS

---

### A. MAIN LCD

---



---

## OPERATION OF CONTROLS

---

### CLOCK

---

- Display in 12 hour format with AM/PM indication.
- Will reset to 12:00 AM when battery is disconnected.



## OPERATION OF CONTROLS

### CLOCK SETTING

Function	Switch	Pressure time (sec)	Action
CLOCK SETTING MODE	SELECT & MODE pressed with No Speed input	$\geq 3$ sec	In ignition key 'ON' position (when vehicle not running) Enters into clock setting mode and hour digits starts to blink
	SELECT	$< 1$ sec	Hours value shall increment by 1 accordingly for no of press
	SELECT	$\geq 3$ sec	Hour value saved and minute digits starts to blink
	SELECT	$< 1$ sec	Minutes value will increase by 1 by each press of the "Select" button
	SELECT	$\geq 3$ sec	Minute value save and PM / AM digits starts to blink
	SELECT	$< 1$ sec	PM / AM is interchangeable by each press of the "Select" button
	SELECT	$\geq 3$ sec	PM / AM save and exit from clock set mode
	NO ACTION	20 sec	Auto exit without saving changes and continue with previous setting



### WARNING

NEVER attempt to operate the select or reset buttons while riding the motorcycle. Failure to do so may cause loss of concentration and unstable riding, leading to a potential accident, resulting in serious injury to both rider and other road users, besides causing severe damage to the motorcycle.

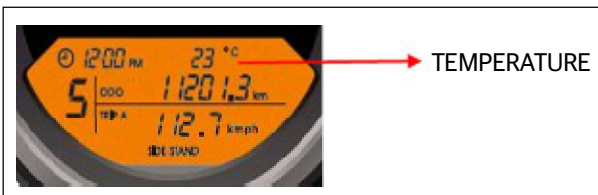
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## OPERATION OF CONTROLS

---

### AMBIENT TEMPERATURE INDICATION

- Ambient temperature display can be changed from Celsius to Fahrenheit and vice versa.
- The temperature indication may increase during vehicle riding / engine ON condition due to increase of engine temperature.
- Ambient temperature indication tolerance is  $\pm 2^{\circ}\text{C}$ .



---

### NOTE

The ambient temperature valve should be referred to only when the engine is switched "OFF" and the engine is in cold condition. The temperature displayed will be higher if the engine is running or immediately after it is switched "OFF" since the sensor will only pick up the higher temperature surrounding it.

---

## OPERATION OF CONTROLS

---

### TEMPERATURE UNIT CHANGEOVER

---

Temperature sensor push button management.

Required button

- Mode



Function	Button	Pressure time (sec)	Action
TEMPERATURE UNIT CHANGE OVER	MODE	$\geq 10$ secs	In ignition key ON position, long press and hold MODE button for period $\geq 10$ secs to reset temperature units from degree Celsius to Fahrenheit and vice versa.

### WARNING

DO NOT use high pressure water jet directly on instrument cluster for cleaning. Use only water spray cleaning and wipe it with soft dry cloth.

---

## OPERATION OF CONTROLS

---

### 4. ODOMETER

---

- Displays the cumulative kilometers the vehicle has covered.



---

### TRIP A/B & AVG SPEED A/B

---

- Trip A/B indicates distance travelled in particular trip.
- Avg A/B indicates average speed of vehicle in particular trip mode.



---

## OPERATION OF CONTROLS

---

Function	Switch	Pressure time (sec)	Action
TRIP A	SELECT	<1sec	In ignition key ON position, <b>Move to:</b> AVA A
	SELECT	> 2.5 sec	TRIP A/AVG A RESET
AVG A	SELECT	<1sec	<b>Move to:</b> TRIP B
	SELECT	> 2.5 sec	TRIP A/AVG A RESET
TRIP B	SELECT	<1sec	<b>Move to:</b> AVG B
	SELECT	> 2.5 sec	TRIP B/AVG B RESET
AVG B	SELECT	<1sec	<b>Move to:</b> TRIP A
	SELECT	> 2.5 sec	TRIP B/AVG B RESET

---

## OPERATION OF CONTROLS

---

### TRIP "F" MODE

---

- The word, Trip "F" will flash when the Trip "F" mode is active.
- Trip "F" is provided to measure distance travelled by the vehicle when fuel level in the vehicle is  $5.5 \pm 0.5$  lts. in the fuel tank so that the rider can plan fuel filling accordingly based on his trip requirements, Trip "F" will get activated when needle on fuel gauge enters the red zone.
- Trip "F" mode would come into function automatically.
- Trip "F" mode would de-activate automatically if fuel is filled above  $5.5 \pm 0.5$  lts.
- During Trip "F" mode rider can toggle between Trip A/B but mode will return automatically to Trip "F" after  $25 \pm 5$  secs.



### NOTE

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- Trip "F" will stop displaying at approximately  $90 \pm 5$  seconds AFTER fuel level in tank is above  $5 \pm 0.5$  litres, side stand is fully retracted AND Ignition is switched ON.



---

## OPERATION OF CONTROLS

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### WARNING

---

NEVER attempt to operate the select or reset buttons while riding the motorcycle. Doing so may cause loss of concentration and unstable riding, leading to a potential accident, resulting in serious injury to both rider and other road users, besides causing severe damage to the motorcycle.

---

### 6. SIDE STAND INDICATOR

---

- Indicates when side stand is extended.



---

## OPERATION OF CONTROLS

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### GEAR POSITION INDICATION

- Displays the gear position in which the vehicle is traveling.
- When in neutral the indication will be "O".
- When in gear the appropriate number between 1 to 5 will be displayed.



### C. TELL TALES

1. **Turn Left** : Left turn signal ON.
2. **Turn right** : Right turn signal ON.
3. **Neutral** : Transmission is in Neutral.
4. **Low Battery Indication** : Indicator will glow continuously if ignition switch is ON & engine is



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## **OPERATION OF CONTROLS**

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not running. Indication will switch off as soon as engine is started. If battery voltage is below 12 V, indicator will glow continuously indicating a low battery.

5. **High Beam Indication** : Head lamp high beam 'ON'.
6. **EMS Malfunction Indication** :
  - Will be illuminated as soon as ignition & stop switch are 'ON' and will go 'OFF' after the engine is started.
  - Will remain continuously 'ON' incase of any malfunction of the EMS.
7. **ABS MIL** : Will be continuously 'ON' during initial check up (until or after vehicle running for a particular distance/speed) and will turn 'OFF' if system is ok, then will light up again in case of any ABS system malfunction.

---

## **CAUTION**

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DO NOT run motorcycle incase the malfunction remains 'ON' continuously as it can cause severe damage to the ECU & Sensors. Please visit the nearest authorized Royal Enfield dealer to diagnose & rectify the defect in the EMS.

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## OPERATION OF CONTROLS

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### D. TACHO METER

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1. Indicates the RPM at which engine is working.
2. Useful for right selection of gear with respect to engine RPM.



### WARNING

---

- Do not run engine with gears in neutral as RPM will go beyond red zone.
- Do not ride motorcycle in lower gears with high acceleration as it will cause RPM to start to red zone & affect the main parts inside engine.

---

## OPERATION OF CONTROLS

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### G. COMPASS LCD

---

- Useful for Navigation during riding.
- Text indicates heading direction of vehicle. (N, S, E, W, NE, NW, SE, SW)
- Arrow will always point to North.
- Eg. if heading Northwest, text will display NW and arrow **will be in top right corner to indicate North.**



### CAUTION

---

1. Avoid using magnetic key chains, magnetic / ferrous materials or electronic components with interference around cockpit area to avoid malfunctioning of digital compass.
2. If compass LCD enters into calibration mode ("CA" flashing) ride vehicle in "8" direction slowly to calibrate the compass or approach nearest authorized service center for assistance and proper calibration.
3. Indication fluctuation during riding is normal operation due to impact of road irregularities.
4. Compass indication tolerance is  $\pm 45^\circ$ .

---

## OPERATION OF CONTROLS

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### WARNING

DO NOT focus on the compass while riding. Doing so may cause loss of concentration and unstable riding, leading to a potential accident, resulting in serious injury to both riders & other road users besides causing severe damage to the motorcycle.

---

### H. FUEL GAUGE

---

- Indicates fuel level in tank.



### WARNING

Do not use the motorcycle for long duration with the fuel indication in red zone. Refuel at the earliest.

Failure to do so may cause the motorcycle to run out of fuel and get stranded, in addition to causing serious damage to the fuel pump.

---

## **PRE OPERATIONAL CHECKS**

---

1. Adequate fuel in fuel tank for the journey planned.
2. Tyres inflated to correct pressure.
3. No side wall cracks, cuts or abrasions in the front and rear tyres.
4. Rear chain for proper tension and sufficiently lubricated.
5. Engine Oil level.
6. Control cables, inner, not damaged, frayed or broken. Clutch and accelerator controls working smoothly.
7. Front and rear brakes efficiency.
8. Hydraulic oil level correct in both front and rear master cylinders.
9. Free movement of handle bar to left and right sides.
10. All electrical controls, horn working correctly.

---

## **PRE OPERATIONAL CHECKS**

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11. Head lamp, tail lamps, brake lamps and indicator lamps working correctly.
12. Front and rear wheel axle nuts tightened properly to torque.
13. Front and rear wheel spokes having proper tightness, no loose or broken spokes.
14. All fasteners are tight to required torque.
15. Engine idling correctly and smooth.
16. No abnormal noise / leak from engine.



---

### **WARNING**

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For your personal welfare and safety, these pre-operational checks should be performed periodically. Failure to do so may affect safe operation, damage your motorcycle and could result in an accident causing serious injury.



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## **CARGO & ACCESSORIES**

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Royal Enfield cannot test and make specific recommendations concerning specific or a combination of accessories sold. Therefore, the rider must be responsible for safe operation of the motorcycle when installing accessories or carrying additional weight.

The following guidelines should be used when equipping a motorcycle, carrying cargo and / or passengers.



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### **WARNING**

---

DO NOT load weight or install accessories improperly on the motorcycle. Doing so may affect the motorcycle's stability handling characteristics, and safe operating speed which could result in serious accident causing serious injury.

- **DO NOT** exceed 70 MPH (110 Km/h) riding solo.
- **DO NOT** exceed 55 MPH (90 Km/h) when carrying a passenger or cargo.
- Keep cargo weight concentrated close to the motorcycle and as low as possible; this minimizes the change in the motorcycle's center of gravity.
  - ★ **Distribute weight evenly** on both sides of the motorcycle.

---

## **CARGO & ACCESSORIES**

---

- ★ **DO NOT** load bulky items too far behind the rider or add weight to the handlebars or front forks.
- ★ **DO NOT** exceed 5 pounds (2.3 kgs) maximum load in each saddlebag.
- ★ Recheck the cargo periodically.
- Be sure cargo is secured and will not shift while riding. Accessories secured loosely may affect the riding of the motorcycle and affect the stability of the motorcycle.
- Additional electrical accessories and equipments may overload the motorcycle's electrical system and will result in system and / or component failure.
- Large surfaces such as fairings, windshields, backrests and luggage racks can adversely affect handling of the motorcycle. Only genuine Royal Enfield accessories, designed specifically for the motorcycle model should be used with proper installation.

---

## **CARGO & ACCESSORIES**

---



### **WARNING**

Royal Enfield motorcycles have been carefully designed and engineered for riding in their original configuration. DO NOT alter the handling characteristics of these motorcycles. Doing so may affect its stability and could cause an accident resulting in serious injury.



### **WARNING**

Royal Enfield cautions you against use of nonstandard parts such as aftermarket and custom made extended front forks which may adversely affect the performance and handling of the motorcycle. Removing or altering original parts may adversely affect the performance of the motorcycle, causing an accident, which could result in serious injury.



### **WARNING**

DO NOT ignore model / design specifications. Doing so constitutes to motorcycle misuse which may adversely affect the handling and performance of the motorcycle causing an accident, which could result in serious injury.

---

## **CARGO & ACCESSORIES**

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### **LOADING**

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- Please do not fit Non OE or Non genuine accessories as they may cause damage to the motorcycle and also affect the riding and handling of the motorcycle.
- Please ensure cargo is securely strapped to the rear and sides of the motorcycle and do not become loose or shift while riding.
- Ensure the weight is distributed evenly on both sides of the motorcycle.
- Do not carry excessively heavy or huge cargo on the motorcycle.
- The permissible weight of the cargo that can be strapped to the luggage carrier is 3.5 Kgs.
- Do not hang any items on the handle bar and luggage carrier while riding which will lead to damage for the parts nearby.



---

### **WARNING**

---

Please exercise utmost caution while carrying cargo or luggage on the motorcycle. Failure to adhere to the above precautions can cause loss of control on the motorcycle, leading to a potential accident, resulting in serious injury to both rider and other road users, besides causing severe damage to the motorcycle.

Total weight of the rider and any passenger, accessories and luggage must not exceed the maximum load limit.

---

## **CARGO & ACCESSORIES**

---

### **CAUTION**

Exhaust gases contains poisonous carbon monoxide and chemicals, known to cause Cancer, Birth defects or other reproductive defects. Please park the motorcycle only in a well ventilated area and do not stay in the same place where the motorcycle is parked, especially when the engine and exhaust system are hot.



### **WARNING**

DO NOT tow a disabled motorcycle. The steering and handling of the motorcycle will be impaired due to the force of the towline. Towing a motorcycle can cause loss of control on the motorcycle, leading to a potential accident, resulting in serious injury to both rider and other road users, besides causing severe damage to the motorcycle.



### **WARNING**

DO NOT attach a trailer to the motorcycle Attaching a trailer can cause loss of control on the motorcycle, leading to a potential accident, resulting in serious injury to both rider and other road users, besides causing severe damage to the motorcycle.



### **WARNING**

Max load on grab rail not to exceed 5 Kg.

---

## **RUNNING IN PERIOD**

---

The Himalayan Motorcycle is capable of consistent high speeds. However as with any new motorcycle, a "RUNNING-IN" procedure is essential to help in proper "Bedding-In" of the various moving parts in your motorcycle and to achieve optimum performance subsequently.

1. During the first 2000 Kms (1200 Miles) of run, do not exceed the speed limits as shown in the table below.
2. Do not exceed maximum specified pay load.
3. Warm up the engine for a few minutes at idling speed to allow engine oil to lubricate all the moving parts in the engine before riding the motorcycle.
4. Avoid full throttle operation and do not ride at constant throttle continuously. Vary the speed by 10% while riding.
5. Avoid sudden accelerations and racing starts.
6. Avoid prolonged full-throttle operation. Vary speed occasionally.

---

## **RUNNING IN PERIOD**

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Gear	Motorcycle Speed	First 500 kms (300 miles)	501 - 2000 kms (301 - 1200 miles)
1		15 KMPH	20 KMPH
2		25 KMPH	30 KMPH
3		30 KMPH	40 KMPH
4		45 KMPH	55 KMPH
5		60 KMPH	80 KMPH

---

## **WARNING INDICATIONS & SAFETY SYSTEMS**

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**YOUR MOTORCYCLE IS FITTED WITH THE FOLLOWING WARNING INDICATIONS AND SAFETY SYSTEMS:**

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### **1. LOW FUEL INDICATION**

---

The Low fuel indication in the small meter will glow if the fuel level in the fuel tank is approximately 3.5 litres.(0.77 Imperial Gallons).

Please ensure the motorcycle is not used with the low fuel indicator lamp 'ON' continuously. It may not only result in the motorcycle running out of fuel. BUT will also cause serious damage to the fuel pump. Please refuel as soon as the low fuel indication comes 'ON'.





---

## **WARNING INDICATIONS & SAFETY SYSTEMS**

---

### **2. ENGINE MALFUNCTION INDICATOR LAMP**

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A Malfunctioning Indicator Lamp (MIL) is provided in the small meter.

When both the Ignition & Engine kill switch is 'ON' and after vehicle is started, the MIL will glow for few seconds and switch 'OFF', this indicates that all the functions of Electronic fuel injection (EFI) system is functioning normally.

In the event of any malfunction in the EFI System the MIL will glow continuously. It is recommended to take the motorcycle to a nearest Royal Enfield Authorized service station for a detailed inspection and correction of the EFI system.



---

## WARNING INDICATIONS & SAFETY SYSTEMS

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### 3. ANTI-LOCK BRAKING SYSTEM (ABS)

---

Anti-Lock Braking System (ABS) will help prevent the brakes from locking the wheels, during sudden application of the brakes at high speeds. This will help the rider to have better traction and control over the motorcycle and prevent the motorcycle from skidding which can cause an accident.

In the event of sudden and hard application of the brakes by the rider, the sensors in the braking system will signal the ABS moderator to momentarily and continuously reduce the hydraulic pressure and thereby prevent the brakes from locking the wheels while reducing the speed of the vehicle. This will help the rider to control the motorcycle.

An ABS indicator lamp is provided in the console (as shown in adjacent image) to warn the rider in the event of any malfunction of the ABS.

When the ignition and kill switch are switched 'ON', the ABS sign light up and remain 'ON' till the motorcycle attains a speed of 5 Km/h (3MPH) and switch 'OFF'. This indicates the ABS is working properly. In the event the lamp does not switch 'OFF' and remains continuously 'ON' at higher speeds, it is recommended not to drive the motorcycle and get the brake system inspected and corrected through a nearest authorized Royal Enfield Distributor. Failure to do so can result in a serious injury and loss of life.



---

## **WARNING INDICATIONS & SAFETY SYSTEMS**

---

### **CAUTION (ABS)**

---

ABS is a safety feature to help prevent locking of wheels during sudden application of brakes. It is by no means a substitute for good riding practices and anticipatory braking.

Please ride carefully and apply brakes cautiously, especially while cornering. ABS cannot estimate the "weight shifts" and momentum of the motorcycle while negotiating a corner and therefore prevent skidding due to loss of traction.

Please anticipate the stopping distance required for the speed of travel and apply brakes well in advance so as to bring the motorcycle to a safe stop.

Please apply both brakes to stop - front brake momentarily earlier, followed by rear brake, to have better traction and control of the motorcycle.

Always ensure that you ride well within the legal speed limits.

Failure to adhere to the above can cause an accident resulting in serious injuries and loss of life.

---

## **WARNING INDICATIONS & SAFETY SYSTEMS**

---

### **DO'S & DON'T'S : (ABS)**

---

<b>Do's</b>	<b>Don'ts</b>
<ul style="list-style-type: none"><li>■ While starting the engine do check the ABS indicator comes ON and switches OFF when the vehicle speed exceeds 5 km/h (3.1 mph).</li></ul>	<ul style="list-style-type: none"><li>■ <b>DO NOT RELEASE</b> the brake lever / pedal when pulsations are felt during hard application of the brakes in an emergency situation. The pulsations only indicate that the ABS is activated.</li></ul>
<ul style="list-style-type: none"><li>■ Please check the brake fluid at MAX level in the front and rear brake master cylinders and there is no leak in the brakes systems.</li></ul>	
<ul style="list-style-type: none"><li>■ Apply both the brakes simultaneously for better efficiency while braking.</li></ul>	<ul style="list-style-type: none"><li>■ <b>DO NOT APPLY</b> only the front OR rear brake as it can lead to inefficient braking.</li></ul>
<ul style="list-style-type: none"><li>■ In the event of the ABS indicator remaining continuously ON please take the motorcycle to a nearest authorized Royal Enfield service station to inspect the brakes system control of the vehicle.</li></ul>	

---

## **WARNING INDICATIONS & SAFETY SYSTEMS**

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### **4. ROLL OVER SENSOR**

---

In the event of motorcycle falling over on either of its sides with the engine running and the gears engaged the Roll over sensor will "disable" both the ignition and fuel systems and switch 'OFF' the engine. This is to prevent any damage to the motorcycle and its rider. To reset the Roll over sensor and reactivate the ignition and fuel systems.

- Ensure the motorcycle is made upright and is on its center stand.
- Ensure gears are in correct neutral and the neutral lamp is glowing in the instrument console.
- Switch 'OFF' both ignition & stop switches, wait for a few seconds and switch 'ON' the Ignition and stop switch again, to start the engine.

---

## **STARTING**

---

- Ensure Gear is in Neutral position and the Neutral lamp is glowing in the Instrument Cluster. To shift into neutral, move the motorcycle back and forth gently, while simultaneously shifting the gear.

---

## **CAUTION**

---

Do not attempt to shift gears when engine is 'OFF' and rear wheel is stationary as it will cause damage to gear shift mechanism. Please move motorcycle back and forth while simultaneously shifting gears.

- Switch 'ON' Ignition and the Stop Switch to 'RUN' Position.



---

## STARTING

---

- Depress Clutch Lever fully.



- Press starter button and hold till engine starts.



---

## CAUTION

---

In case engine does not start, do not keep starter button pressed continuously as it will drain the battery. Release button and restart after a few minutes to allow battery to recoup.

---

## **STARTING**

---

### **CAUTION**

---

Never accelerate the engine immediately after a cold start. The engine should be allowed to run slowly for 15 to 30 seconds. This will allow the engine to warm up and let oil reach all surfaces needing lubrication. Failure to adhere in damage to the engine.

- Manual Bi Starter

---

### **NOTE**

---

It is mandatory, necessary to depress and hold the Manual Bi-starter for a minimum of one minute when starting the engine for the first time in cold morning, every time when the temperatures are below 10 deg C, and at higher altitudes to keep the engine idling RPM steady.

As soon as the engine sufficiently warms up then Manual Bi-starter should be released. Warm up engine for 2 minutes - until idling is consistent.





---

## GEAR SHIFTING, RIDING & STOPPING

---

- Warm up engine for 2 minutes - until idling is consistent.

GEAR SHIFT PATTERN

1—N—2—3—4—5

- Press clutch lever towards the hand grip.
- Press gear pedal with toe to engage 1st gear.
- Gently open throttle and release clutch simultaneously. If clutch is released suddenly, the engine may stall and cause a jerky start.



---

### CAUTION

---

The clutch must be fully disengaged before attempting a gear shift. Failure to fully disengage the clutch may cause a jerky start OR stalling the engine besides causing damage to transmission parts.

---

## **GEAR SHIFTING, RIDING & STOPPING**

---

- Lift gear lever with toe to engage 2nd and subsequent gears.



---

### **NOTE**

---

Always start the engine with gear in neutral position.

Always move the motorcycle in first gear position only.

The motorcycle may begin to slow down and show lack of power while climbing steep hills. In that case, you should shift to a lower gear so that engine will be operating in normal power range which will prevent the motorcycle from losing momentum. The engine may be used for braking by shifting to a lower gear while riding down to steep hill.

---

## **PARKING**

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### **PARKING MOTORCYCLE ON SIDE STAND**

---

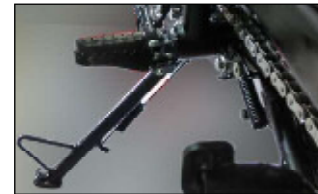
- Select a firm, flat surface.
  - Extend side stand. Tilt the motorcycle to the left, till it is supported firmly.
- 

### **CAUTION**

---

When Side stand is in "ON" position.

- a) Engine will start if vehicle is in neutral, but will cut-off (ignition and fuel) when gear is engaged.
  - b) Engine will not start if gear is engaged already.
- 



### **WARNING**

---

- Ensure side stand is retracted fully before riding the motorcycle.
- Please exercise extreme care while parking and ensure it is parked firmly to avoid the motorcycle from falling over and causing injury to you or to others and damage to the motorcycle parts.
- Do not ride motorcycle with the side stand extended. Doing so can cause the side stand to touch the ground while cornering and result in instability & loss of control on the motorcycle leading to a potential accident result in serious injury to both sides and other road users besides causing severe damage to the motorcycle.

---

## **PARKING**

---

---

### **PARKING MOTORCYCLE ON CENTER STAND**

---

- Select a firm, flat surface.
- Hold handle bar straight.
- Lower center stand, such that, both the legs of the stand are resting on firm ground.
- Apply pressure on the fulcrum lever on the center stand and pull motorcycle backward.



## PERIODICAL MAINTENANCE

The Periodical maintenance schedule detailed below is based upon average riding conditions and indicates the Intervals at which regular inspections, adjustments, replacements and lubrications must be carried out to help maintain your Himalayan motorcycle meticulously. If in case the motorcycle is used frequently in very dusty environment / severe climatic conditions / Poor Roads / stagnant water etc., the maintenance will need to be done earlier as may be required.

Contact a nearest Royal Enfield Authorized Dealer / Service Center to carry out the periodical maintenance and for any expert advice.

Sl. No.	DESCRIPTION	PERIODIC MAINTENANCE										
	Kms (x 1000)	0.5	5	10	15	20	25	30	35	40	45	50
	Miles (x 1000)	0.3	3	6	9	12	15	18	21	25	28	31
1	Engine Oil (Level check / Replace)	R	I	R	I	R	I	R	I	R	I	R
	Check level at every 1000 Kms or earlier as required											
2	Oil Filter Element	R		R		R		R		R		R
3	Engine oil strainer on crankcase LH	C		C		C		C		C		C

A : Adjust      C : Clean      I : Inspect      T : Re-tighten (2)      L : Lubricate      R : Replace

\* Refer Service Manual.      RPM setting done every service      # Check every time after vehicle is used for off road riding

(1) Tyre to be replaced if the tyre wear identification mark reached      (2) To be done at authorised Royal Enfield Dealer / Service Center

For maintenance after 50,000 Kms. , please repeat same frequency specified above, in consultation with a Royal Enfield Authorised Dealer / Service Center.

## PERIODICAL MAINTENANCE

Sl. No.	DESCRIPTION	PERIODIC MAINTENANCE											
		Kms (x 1000)	0.5	5	10	15	20	25	30	35	40	45	50
		Miles (x 1000)	0.3	3	6	9	12	15	18	21	25	28	31
4	Inlet / Exhaust Tappet setting		I & A	I & A	I & A	I & A	I & A	I & A	I & A	I & A	I & A	I & A	I & A
5	Rubber hose, Inlet manifold *		I	I	R	I	R	I	R	I	R	I	R
6	Oil cooler inlet & outlet pipes *		I	I	I	R	I	I	R	I	I	R	I
7	Spark plug		C & A	C & A	C & A	R	C & A	C & A	R	C & A	C & A	R	C & A
8	HT leads for crack		I	I	I	I	I	I	R	I	I	I	I
9	Fuel Hose		I	I	I	R	I	I	R	I	I	R	I
10	Fuel Hose & Clip/ Injector 'O' ring/ Seal Ring		I	I	I	R	I	I	R	I	I	R	I
11	Fuel Pump		Check for screw tightness in all services										

A : Adjust      C : Clean      I : Inspect      T : Re-tighten (2)      L : Lubricate      R : Replace

\* Refer Service Manual.      RPM setting done every service      # Check every time after vehicle is used for off road riding

(1) Tyre to be replaced if the tyre wear identification mark reached      (2) To be done at authorised Royal Enfield Dealer / Service Center

For maintenance after 50,000 Kms., please repeat same frequency specified above, in consultation with a Royal Enfield Authorised Dealer / Service Center.

## PERIODICAL MAINTENANCE

Sl. No.	DESCRIPTION	PERIODIC MAINTENANCE											
	Kms (x 1000)	0.5	5	10	15	20	25	30	35	40	45	50	
	Miles (x 1000)	0.3	3	6	9	12	15	18	21	25	28	31	
12	Air filter element	C	C	R	C	R	C	R	C	R	C	R	
	Clean/ Replace more frequently if motorcycle always used industry / off Road conditions.												
13	Accelerator Cable	I	I	R	I	R	I	R	I	R	I	R	
14	Rubber Hose, Air fitler to Throttle body	I	I	R	I	R	I	R	I	R	I	R	
15	PAV pipes & Hose clip	I	I	I	I	I	R	I	I	I	I	R	
16	Throttle body- Cleaning spray*	Carbo cleaner/ carb click/ or Fuel line cleaners spray every 6000 Km or 6 months whichever is earlier											
17	Clutch Cable	I	I	R	I	R	I	R	I	R	I	R	

A : Adjust      C : Clean      I : Inspect      T : Re-tighten (2)      L : Lubricate      R : Replace

\* Refer Service Manual.      RPM setting done every service      # Check every time after vehicle is used for off road riding

(1) Tyre to be replaced if the tyre wear identification mark reached      (2) To be done at authorised Royal Enfield Dealer / Service Center  
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## PERIODICAL MAINTENANCE

Sl. No.	DESCRIPTION	PERIODIC MAINTENANCE											
		Kms (x 1000)	0.5	5	10	15	20	25	30	35	40	45	50
		Miles (x 1000)	0.3	3	6	9	12	15	18	21	25	28	31
18	Clutch free play	Adjust every 1000 Kms or earlier as required											
19	Clutch no slippage		I	I	I	I	I	I	I	I	I	I	I
20	Clutch Plates					R			R			R	
21	Cam Chain / Chain Pads / Auto chain Tensioner		I	I	I	I	I	I	I	I	I	I	I & R
22	Inlet / Exhaust valve seating (compression test) *							I					I
23	Steering head bearings #		I & A	I & A	L & A	I & A	L & A	I & R	I & A	L & A	I & A	L & A	I & R
24	Front Fork oil		I	I	I	R	I	I	R	I	I	R	I
25	Fuel Pipe		I	I	R	I	R	I	R	I	R	I	R
26	Battery terminals (apply petroleum jelly)		C	C	C	C	C	C	C	C	C	C	C

A : Adjust      C : Clean      I : Inspect      T : Re-tighten (2)      L : Lubricate      R : Replace

\* Refer Service Manual.      RPM setting done every service      # Check every time after vehicle is used for off road riding

(1) Tyre to be replaced if the tyre wear identification mark reached      (2) To be done at authorised Royal Enfield Dealer / Service Center  
For maintenance after 50,000 Kms., please repeat same frequency specified above, in consultation with a Royal Enfield Authorised Dealer / Service Center.



## PERIODICAL MAINTENANCE

Sl. No.	DESCRIPTION	PERIODIC MAINTENANCE											
		Kms (x 1000)	0.5	5	10	15	20	25	30	35	40	45	50
		Miles (x 1000)	0.3	3	6	9	12	15	18	21	25	28	31
27	Earth wire eyelet Tightness				I		I		I		I		I
28	Hydraulic Brake Fluid - Front & Rear #		I	I	R	I	R	I	R	I	R	I	R
29	Hydraulic brake hose & Washers - Front & Rear #		I	I	I	I	R	I	I	I	R	I	I
30	Brake Pads - Front & Rear #		I	I	R	I	R	I	R	I	R	I	R
31	Tyre wear pattern (Front & Rear) # (1)		I	I	I	I	I	R	I	I	I	I	R
32	Spokes tightness / Wheel rim run out front & rear #		I	I	I	I	I	I	I	I	I	I	I
33	Front & Rear wheel bearings for play #		I	I	I	I	I	I & R	I	I	I	I	I & R
34	Swing arm Pivot bearings #		I & L	I & L	I & L	I & L	I & L	I & L	I & L	I & L	I & L	I & L	I & R

A : Adjust      C : Clean      I : Inspect      T : Re-tighten (2)      L : Lubricate      R : Replace

\* Refer Service Manual.      RPM setting done every service      # Check every time after vehicle is used for off road riding

(1) Tyre to be replaced if the tyre wear identification mark reached      (2) To be done at authorised Royal Enfield Dealer / Service Center

For maintenance after 50,000 Kms. , please repeat same frequency specified above, in consultation with a Royal Enfield Authorised Dealer / Service Center.

## PERIODICAL MAINTENANCE

Sl. No.	DESCRIPTION	PERIODIC MAINTENANCE											
		Kms (x 1000)	0.5	5	10	15	20	25	30	35	40	45	50
		Miles (x 1000)	0.3	3	6	9	12	15	18	21	25	28	31
35	Rear Suspension Linkages #		I	I & L	I & L	I & R	I & L	I & L	I & R	I & L	I & L	I & R	I & L
36	Rear Drive Chain #		Clean, Lubricate & Adjust every 1000 Kms or earlier as required										
37	Drive chain & Sprockets set #		I	I	R	I	R	I	R	I	R	I	R
38	Rear wheel cush drive rubbers #		I	I	R	I	R	I	R	I	R	I	R
39	All Mounting Fasteners in vehicle for tightness #		I & T	I & T	I & T	I & T	I & T	I & T	I & T	I & T	I & T	I & T	I & T
40	Hand levers, Centre stand, side stand, Rider & Pillion foot rest Pivots & Gearshift Levers #		Lubricate every 1000 Kms or earlier as required										
41	Evaporative Emission Equipment rubber hoses *		I	I	I	R	I	I	R	I	I	R	I

A : Adjust      C : Clean      I : Inspect      T : Re-tighten (2)      L : Lubricate      R : Replace

\* Refer Service Manual.      RPM setting done every service      # Check every time after vehicle is used for off road riding

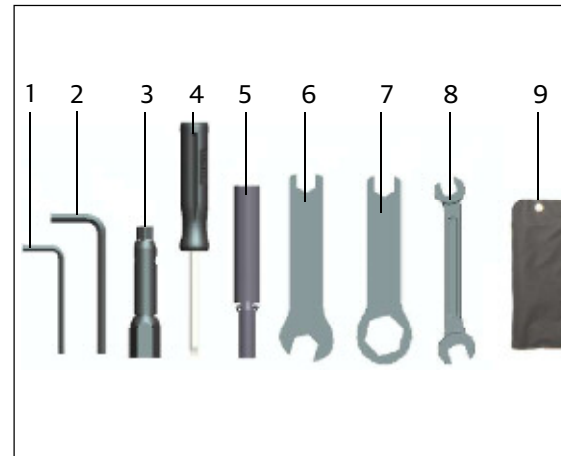
(1) Tyre to be replaced if the tyre wear identification mark reached      (2) To be done at authorised Royal Enfield Dealer / Service Center

For maintenance after 50,000 Kms., please repeat same frequency specified above, in consultation with a Royal Enfield Authorised Dealer / Service Center.

## TOOLS KIT

The tool kit is strapped underneath the Pillion seat.

S.No.	Tool Description	Purpose	Qty.
1	Allen Key 4 mm	To remove side panels LH & RH	1
2	Allen Key 6 mm	To Loosen / tighten pinch bolt on fork end	1
3	Tool Spark Plug	To Loosen / tighten Spark plug	1
4	Screw Driver	To loosen / tighten screws of housing	1
5	Extension Tube	Additional leverage for loosening tightening wheel axle nuts	1
6	Combination Spanner Open end 17 * 13 mm	To loosen / tighten hex nuts	1
7	Combination Ring Spanner 24 * 14 mm	To Loosen / tighten wheel axle nuts	1
8	D.E. Spanner 10 * 12 mm	To loosen / tighten hex nuts	1
9	Tool wallet	For storing tools	1



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## **MINOR MAINTENANCE TIPS**

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The following simple maintenance activities will help in maintaining your motorcycle. However if you are in experienced or feel it is best done by an experienced person, we recommend you to get in touch with a Royal Enfield Authorized Dealer / Service Center.

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### **HAND LEVER PIVOTS**

---

Wipe the area free of dirt / grease.

Apply a few drops of oil on the pivots.

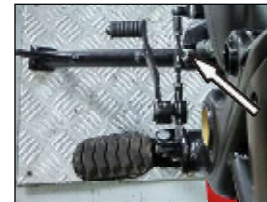


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### **SIDE STAND PIVOTS**

---

Apply a few drops of oil on the pivots after cleaning the area of dirt.



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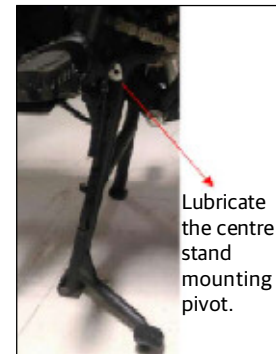
## **MINOR MAINTENANCE TIPS**

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### **PERIODICAL MAINTENANCE**

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- Lubricate the centre stand pivot periodically for smoother operation of centre stand.



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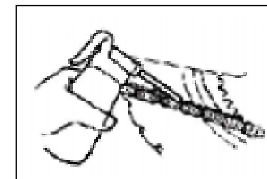
## **MINOR MAINTENANCE TIPS**

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### **DRIVE CHAIN**

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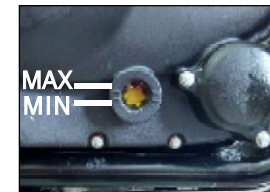
Clean the drive chain carefully. Apply chain lubricant while simultaneously rotating the rear wheel. Wipe off the excess lubricant.



### **OIL LEVEL INSPECTION**

---

- Place motorcycle on its center stand on a firm surface.
- Warm up engine for a few minutes & switch off before checking oil level.
- The level is correct if the oil level is in the middle of the oil level window.
- Top up only with recommended Engine oil.



### **CAUTION**

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Using Non Recommended / In-Correct oils, can cause serious damage to the moving parts, affect performance of the motorcycle AND void the warranty.

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## MINOR MAINTENANCE TIPS

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### SPARK PLUG

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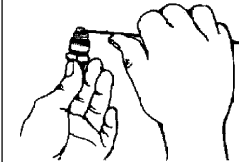
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#### CLEANING AND ADJUSTING PLUG GAP

---

- Remove spark plug using the plug spanner and tommy bar.
- Clean the insulator tip and electrodes of the plug carefully.
- Clean & adjust electrode gap every 500 km if required and replace every 15,000 kms.
- Refit the spark plug on the cylinder head.

Gap 0.7 to 0.8 mm



---

### BRAKE FLUID

---

- Check fluid level is between "MIN & MAX".
- Top up with DOT 4, if required.
- Do not overfill.
- DO NOT mix DOT 4 with other brake fluids.



FRONT BRAKE



REAR BRAKE

---

## **MINOR MAINTENANCE TIPS**

---

### **CAUTION**

Brake fluid is highly corrosive and can cause damage to painted parts. Please ensure brake fluid does not spill on any part of the motorcycle. In the event of a spill, please clean the area immediately with a soft cloth (preferably a wet cloth) to avoid damage.

---

### **INSPECTION OF TYRES AND RIMS**

---

- Periodically inspect :
  - Rims for spokes breakage wheel rim and run-out.
  - Tyres for proper seating of the beading on the rims.
- Check and remove stone, splinters, nails or other sharp particles embedded in the tyre.
- Replace tyres if
  - Side wall cracks, cuts or damages, uneven lugs wear etc.
  - Tyre lugs work out upto the "wear indicator" symbol on the side wall.





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## MINOR MAINTENANCE TIPS

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- Use only recommended tyres & tubes, inflated to correct air pressure.

	Front	Rear
Solo	1.75 kg/cm <sup>2</sup> (25 PSI)	2.25 kg/cm <sup>2</sup> (32 PSI)
With Pillion	1.89 kg/cm <sup>2</sup> (27 PSI)	2.39 kg/cm <sup>2</sup> (34 PSI)



### WARNING

---

Dismantling and reassembly of the wheel should be done ONLY by an experienced technician.

Failure to do so may cause loss of control on the motorcycle, leading to a potential accident, resulting in serious injury to both rider and other road users, besides causing severe damage to the motorcycle.

---

## MINOR MAINTENANCE TIPS

---

### FRONT WHEEL REMOVAL

---

- Support front end of engine suitably such that the front wheel is off the ground.
- Loosen pinch bolt on right fork end with 6 mm Allen key.
- Hold spindle on right side and remove spindle nut and washer from left side.
- Support wheel and pull out spindle from right side.
- Remove wheel along with wheel speed sensor and spacer.
- Remove speedo sensor.

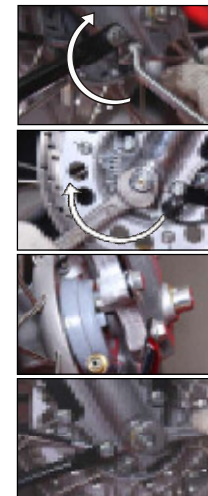
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### CAUTION

---

Do not press the brake lever when wheel is removed as this will result in the brake pads coming out too far from the brake caliper.

- Place a suitable spacer of 4 mm thickness, between the brake pads to avoid accidental compression of the brake lever.



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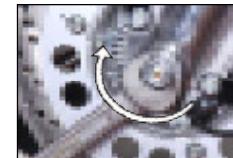
## MINOR MAINTENANCE TIPS

---

### FRONT WHEEL REASSEMBLY

---

- Remove the spacer placed between the brake pads.
- Locate wheel speed sensor lugs on the hub slot carefully.
- Position wheel along with wheel speed sensor and spacer on left side between the front fork legs, ensuring the brake disc is located between the brake pads.
- Insert wheel spindle from right fork end.
- Position wheel speed sensor such that it is parallel to ground.
- Hold spindle on right side, locate washer and nut on spindle on left side and tighten firmly.
- Tighten pinch bolt on right fork end.
- Rotate wheel and check for smooth rotation.
- Press brake lever and check front brake for efficiency.



---

## MINOR MAINTENANCE TIPS

---

### REAR WHEEL REMOVAL

---

- Ensure the motorcycle is on a firm, flat surface and the rear wheel is off the ground.
- Gently remove the brake hose along with its rubber grommets from the locating clips on the swing arm.
- Loosen rear axle nut on the right side and remove along with washer.
- Pull out the wheel axle from the left side, taking care not to drop the wheel spacers.
- Remove the brake caliper assembly from the slot in the swing arm and support it suitably, to avoid damage to the brake hose.
- Slide out the rear wheel from the swing arm, taking care not to drop the spacers on the wheel hub.

### CAUTION

---

Do not press the brake pedal when wheel is removed as this will result in the brake pads coming out too far from the brake caliper.

\* Place a suitable spacer of 4 mm thickness, between the brake pads to avoid pads compression in the event the brake pedal is pressed accidentally.



---

## MINOR MAINTENANCE TIPS

---

---

### REAR WHEEL REASSEMBLY

---

- Ensure the cush rubbers are in place in the wheel hub.
- Insert the wheel assembly between the swing arms and position the cush rubbers on the rear sprocket lugs correctly.
- Remove the spacer between the brake pads and locate the caliper such that the brake disc is between the brake pads.
- Locate the caliper bracket slot on the lug in the swing arm.
- Position the respective spacers on the left and right side of the wheel hub.
- Ensure the axle mounting hole in the swing arm, wheel hub and caliper bracket are aligned.
- Insert the wheel axle from the left side of the swing arm and gently tap it in.



---

## MINOR MAINTENANCE TIPS

---

### CAUTION

---

- Do not force the spindle through as it will cause damage to the threaded end.
- Ensure correct chain tension and rear wheel alignment with front wheel by adjusting the adjusters on both left and right side of swing arm.
- Assemble washer and wheel axle nut on right side and tighten to correct torque.
- Fix the brake hose pipe in swing arm clips properly.



---

### CAUTION

---

- Please ensure the brake hose is correctly positioned on the clips, without any twist, sharp kinks or damage as it will seriously affect the performance of the rear brake.
- Check rear brake for effectiveness and correct functioning before using the motorcycle.



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## MINOR MAINTENANCE TIPS

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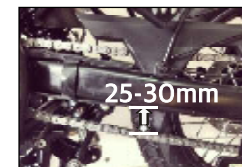
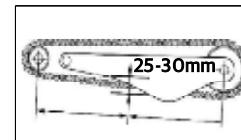
### DRIVE CHAIN TENSION (FREE PLAY 25-30MM)

---

- Measure the drive chain free play on the top run of the chain.
- The recommended free play is 25 to 30 mm.

To adjust the chain tension and free play :

- Loosen rear wheel spindle nut.
- Loosen lock nuts of the chain adjuster on both ends of the swing arm.
- Tighten / loosen the adjuster nut on left swing arm end, to reduce / increase chain tension.
- Ensure the ground is level & firm and place the motorcycle in its centre stand.
- Rotate wheel slowly and check chain free play at the top run to be between 25 - 30 mm.



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### WARNING

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Please follow instructions as per periodical maintenance.

---

## MINOR MAINTENANCE TIPS

---

- Tighten / loosen adjuster nut on right side to align the front and rear wheels and also to align the reference marks on both left and right side of the swing arm.
- Tighten the lock nuts against the adjuster nuts, taking care not to disturb the adjuster nut settings.
- Tighten rear wheel spindle nut to a specified torque.



---

### **WARNING**

---

Chain slackness beyond 30mm will lead to chain slippage.

Maintain drive chain slackness within the specified limits at every 1000 kms interval.

Please Check the front and rear wheels are correctly aligned, after the chain adjustment.

If the Engine / Rear sprocket are worn, replace the Engine / Rear sprocket & Rear chain as a kit.



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## MINOR MAINTENANCE TIPS

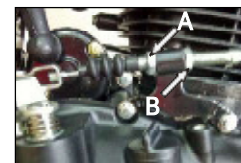
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### ADJUSTMENTS - CLUTCH LEVER FREE PLAY

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Clutch Lever (free play 2 - 3 mm)

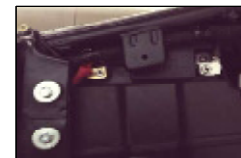
- Loosen the cable outer lock nut (A).
- Turn the Nut (B) Clockwise to reduce the play or Anticlockwise to increase the free play.
- Check free play 2 to 3 mm at Clutch lever pivot on handle bar end.
- Tighten lock nut (A) after adjustment is done.



### BATTERY & MAINTENANCE

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- The Motorcycle is provided with 12V - 8 AH MF battery.
- The battery must be periodically checked for corrosion free terminals.



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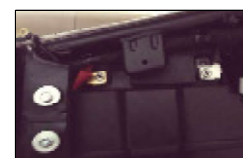
## **MINOR MAINTENANCE TIPS**

---

### **REMOVAL OF BATTERY FROM THE MOTORCYCLE**

---

- Remove side panel on the right side by unscrewing 2 hex socket button head screws.
- Unlock (turn the key clockwise) and remove the pillion seat.
- Remove front seat.
- Disconnect both the terminal wires (negative first and positive next respectively).



---

## MINOR MAINTENANCE TIPS

---

- Remove the battery carrier bracket by loosening the hex bolt.
- Remove the battery.

### WARNING

Always disconnect the Black negative (-) battery cable first and then the Red positive (+) cable while removing the battery connections.



---

## REASSEMBLY OF BATTERY ON MOTORCYCLE

---

- Position the battery in the battery carrier such that the terminals are facing inside.
- Ensure ignition switch is in 'OFF' condition.
- Connect the red wire to the positive terminal of the battery first.
- Next, connect the black wire to the negative terminal of the battery.
- Smear the terminals with petroleum jelly. (Do not use grease in the battery terminals).



---

### **MINOR MAINTENANCE TIPS**

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- Place the terminal boot / cap properly.
- Refit the battery bracket.
- Refit right side panel.
- Reassemble Rider seat & Pillion seat.

---

### **NOTE**

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Clean the wire terminals free of corrosion and keep the terminals coated with petroleum jelly.

---

### **CAUTION**

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Keep the +ve and -ve cables firmly conneted to the respective battery terminals. Failure to do so may result in damage to the motor cycle electrical system.

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## **MINOR MAINTENANCE TIPS**

---

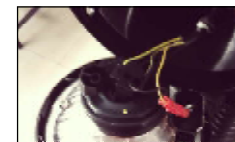
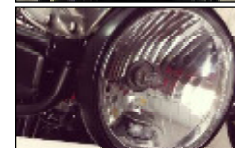
### **CHANGING ELECTRICAL COMPONENTS**

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#### **HEADLAMP BULB DISMANTLING**

---

- Remove the 2 screws holding the head lamp rim to the housing.
- Gently pull out the head lamp rim along with reflector assembly.
- Disconnect head lamp coupler.



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### MINOR MAINTENANCE TIPS

---

- Remove the protective rubber cap over the bulb.



- Gently press the bulb holding clip and release it from the slot in the reflector.
- Remove the bulb from the reflector.



---

#### NOTE

Never touch the bulb with your fingers. Finger prints will etch the glass and decrease bulb life.  
Always hold the bulb with clean dry cloth during handling.  
Don't disturb the vent cap provided in the inner body mould.



---

## MINOR MAINTENANCE TIPS

---

### HEAD LAMP BULB REPLACEMENT

---

- Locate the 3 lugs in the bulb correctly in the reflector.
- Locate the bulb holding clip over the bulb and lock it in the slot in the reflector.
- Put the protective rubber cap over the bulb correctly such that the vent pipe is facing downwards.
- Connect head lamp coupler on the bulb terminals correctly.



---

## **MINOR MAINTENANCE TIPS**

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- Locate the head lamp rim in the housing correctly such that it locks in place and the 2 mounting holes of the rim are aligned with the holes in the housing.
- Assemble the 2 screws and tighten firmly.



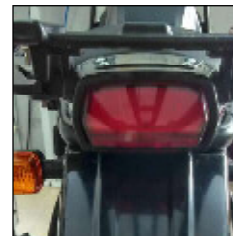
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## **TAIL LAMP**

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The tail lamp has a LED lighting system. In the event of failure, the entire tail lamp assembly should be replaced.

Contact an Authorized Royal Enfield Dealer / Service Center to replace the same.





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## **MINOR MAINTENANCE TIPS**

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### **TRAFFICATOR BULB REPLACEMENT**

---

- Remove the screw from the trafficator housing back side.
- Remove outer lens.
- Remove the fused bulb by pushing and turning in anticlockwise direction.
- Position the new bulb inside the holder, ensuring that the pins in the bulb, match with slots in the holder.
- Push the bulb and turn clockwise direction to lock the bulb in the holder.
- Refit the trafficator cover with reflector and tighten the screw.



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### **NOTE**

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Do not over tighten the screw.

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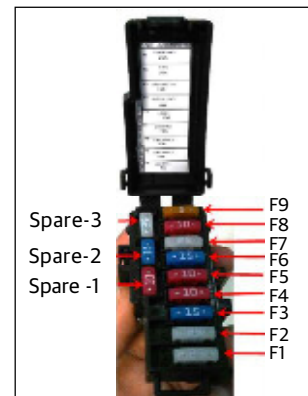
## MINOR MAINTENANCE TIPS

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### FUSE & CARRIER

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- The fuse carrier is located under the rider seat.
- Remove pillion seat & rider seat.
- Open the fuse carrier lid & replace fuse as indicated inside the lid.
- Replace the required fuse with the spare fuse available in the fuse carrier.



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### NOTE

Please ensure to replace a spare fuse in the holder at the earliest opportunity.

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## MINOR MAINTENANCE TIPS

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### BLADE FUSE USAGE LIST

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ID No.	Function	Rating
F1	CHARGING FUSE	25A
F2	MAIN FUSE	25A
F3	IGNITION - EFI FUSE	15A
F4	SIGNALLING FUSE	10A
F5	HORN FUSE	10A
F6	LIGHTING FUSE	15A
F7	ABS MAIN-1 FUSE	25A

ID No.	Function	Rating
F8	ABS MAIN-2 FUSE	10A
F9	ABS ECU	5A
SPARE-1	SPARE FUSE 1	25A
SPARE-2	SPARE FUSE 2	15A
SPARE-3	SPARE FUSE 3	10A
SPARE-4	SPARE FUSE 4	5A

### WARNING

Please get the electrical system of your Motorcycle checked thoroughly and get the faults corrected immediately after experiencing any fuse failure. Not doing this can result in to repeated fuse failures.

Usage of fuses other than specified rating will damage the complete electrical system.

---

## **MINOR MAINTENANCE TIPS**

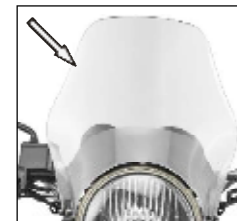
---

### **WINDSHIELD CLEANING**

Wipe the windshield with a soft cloth. Do not wipe vigorously as it will cause scratches on the windshield.

Use a mild detergent and lukewarm water to remove any hard coating, insect hits etc from the windshield.

Rinse well with water and use a soft dry and lint free cloth to wipe off the water.



### **CAUTION**

Use of any hard cleaning substances such as stain removers, water repellent compounds, petroleum products, solvents and alcohol based material will seriously affect the windshield transparency.

Scratches, cloudiness, cuts and abrasions on the windshield cannot be polished or removed. The windshield must only be replaced if damaged.

### **WARNING**

Never attempt to clean the windshield while riding. Failure to do so may cause loss of control on the motorcycle, leading to a potential accident, resulting in serious injury to both rider and other road users, besides causing severe damage to the motorcycle.

---

## **LONG TRIP PRECAUTIONS**

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### **CHECKS PRIOR TO THE COMMENCEMENT OF LONG JOURNEY**

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- Service the motorcycle at a Royal Enfield Authorized Dealer / Service Center.
- Ensure sufficient quantity of petrol in the fuel tank for the journey planned.
- Check and correct tyre pressure if necessary.

---

### **CHECKS AFTER EVERY 1500 KMS OF RUN**

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- Any loose fasteners.
- Condition of the tyres.
- Correct oil level in engine.
- Working of all lights and horn.
- Proper drive chain tension.

---

## **LONG TRIP PRECAUTIONS**

---

### **ITEMS TO BE CARRIED**

---

- Tool kit
- Bulbs for Headlight, Trafficator light, Fuse.
- Accelerator, Clutch cables.
- Rear chain master link lock assembly.
- Insulation tape.
- Spark plug, Spark plug cap.

---

## **SHOCK ABSORBER**

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### **SPRING PRELOAD & SHOCK ABSORBER SETTINGS**

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#### **INCREASING THE PRELOAD**

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- To increase spring preload, turn preload adjuster in the clockwise direction.

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#### **REDUCING THE PRELOAD**

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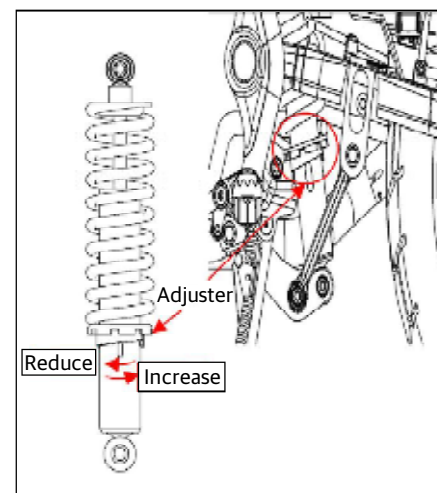
- To decrease the spring preload, turn preload adjuster in the anti-clockwise direction.

---

#### **CAUTION**

---

It is recommended to visit Authorised Dealer for adjusting spring preload and shock absorber settings.



---

## **OFF ROADING**

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### **AFTER OFF ROADING**

---

It is recommended to check the following after off roading :

#### **TYRE PRESSURE**

- Tyre pressure needs to be optimal for effective riding on surfaced roads.
- Always check the tyre pressures are correct.

#### **BRAKES**

- Riding on dirty & muddy roads brakes may not be effective immediately because of dirt & moisture on the disc pads.
- Apply the brakes in good time until the brakes have been cleaned.

#### **RIMS**

- It is recommended to check the rims & wheels for damage after off roading.



---

## **OFF ROADING**

---

### **SPRING PRELOAD & SHOCK ABSORBER SETTINGS**

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- The off road settings of spring & shock absorber settings will impair the motorcycle's handling characteristics on surfaced roads.
- Remember to correct the spring & shock absorber settings before returning to surfaced roads.

---

### **AIR FILTER ELEMENT**

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- Cleaning of air filter element is recommended for effective utilisation of air filter element in returning to surfaced roads.
- Check for any damages or clog in air filter and replace if required.

---

## **WASHING PROCEDURE**

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### **PRECAUTIONS**

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- Wash motorcycle when the engine is cold.
- Cover the silencer, tail pipe, horn and control switches with suitable plastic bags and tie it firmly to prevent water entry.
- Remove ignition key and seal key hole using adhesive tape.
- Brush engine area with a solvent to remove dirt or grease.
- Use low pressure jet of water to clean.
- DO NOT spray water directly on the steering stem area as it will damage the bearings and cause the handle bar movement to become sticky.
- Never spray water with great force on head lamp, speedometer, flasher lights, front and rear wheel hubs, electrical connections and wires, control cables, spark plug, battery, side mirrors, steering stem, etc.
- Do not apply any corrosive solvent on painted surfaces or rubber parts.
- Use luke warm water and mild detergent on the painted components to remove dirt, etc.

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## WASHING PROCEDURE

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- Rinse motorcycle thoroughly with plain water to remove the detergent.
- If possible, use compressed air and blow off water particles from the hard to reach areas of the motorcycle, electrical connections etc.
- No direct jet at the edges of decal, electrical parts, coupler joints, silencer tail pipe, radiator lubrication points like steering cone kit, brake pedal, wheel bearings, chain, brake cam & swing arm bushes to be washed in spray mode only (not in jet mode).




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## AFTER WASHING

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- Ensure, the motorcycle is thoroughly dry by wiping with a clean soft absorbent cloth or chamois leather.
- Remove all plastic bags and adhesive tapes.
- Lubricate control cables, pivot and rear chain with lube oil.
- Polish the painted (**except Stone Black Colour / Matt paint finish**) and plated surfaces using polishing wax.
- Start engine and allow to run at idling speed for a few minutes to warm up engine.
- Drive the motorcycle slowly, applying both brakes intermittently to dry up the water in the brake shoes.



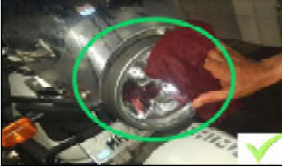

## WASHING PROCEDURE

Location	Do's	Don'ts
Steering 'T' Stem Mounting area	<p>Wipe Steering area with Cotton Cloth</p> 	<p> <b>WARNING</b></p> <p> Do not spray high pressure water on top &amp; bottom dust seal area, as shown. Wet a small piece of cloth and gently rub on required areas, to clean the steering tube area.</p> 

### NOTE

High pressure water Jet should not directly Shown on the above mentioned Locations.

## WASHING PROCEDURE

Location	Do's	Don'ts
Oil Cooler Fins Damage	Use protector to cover the fins Location 	Don't use High pressure water jet on Oil Cooler 
Instrument Cluster	Wipe Head lamp glass with Cotton Cloth 	Don't use High pressure Water on Head lamp Front & back 

### NOTE

High pressure water Jet should not directly Shown on the above mentioned Locations.

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## **STORAGE PRECAUTIONS**

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In case your Motorcycle is not going to be used for a month or more, the following precautions should be taken.

- Get the motorcycle serviced through a Royal Enfield Authorized Dealer / Service Center.
- Drain fuel tank and fuel line.
- Spray engine oil inside the fuel tank to prevent rusting.
- Remove spark plug. Pour in about 25ml of clean engine oil through spark plug hole. Close the hole and crank engine several times and refit spark plug.
- Clean rear chain thoroughly and apply a chain lube.
- Remove battery from the motorcycle. Clean the terminals free of corrosion and apply petroleum jelly to terminals.
- Store the battery in a cool, dry and well ventilated place.
- Cover the silencer with plastic bags to prevent moisture entry. Set the motorcycle on its center stand.
- Apply anti rust solutions on all plated parts. Take care not to apply this solution on rubber or painted parts.
- Store motorcycle in a clean covered area free of moisture and dust.
- For re use after storage, it is preferable to get the motorcycle prepared through a Royal Enfield Authorized Dealer / Service Center to ensure the motorcycle is restored to its peak operating conditions.
- It is advised to disconnect battery terminals and remove the battery. Before refitting the battery in the motorcycle, check the battery voltage is within specification, if not, recharge it from authorized service workshop / battery dealer.

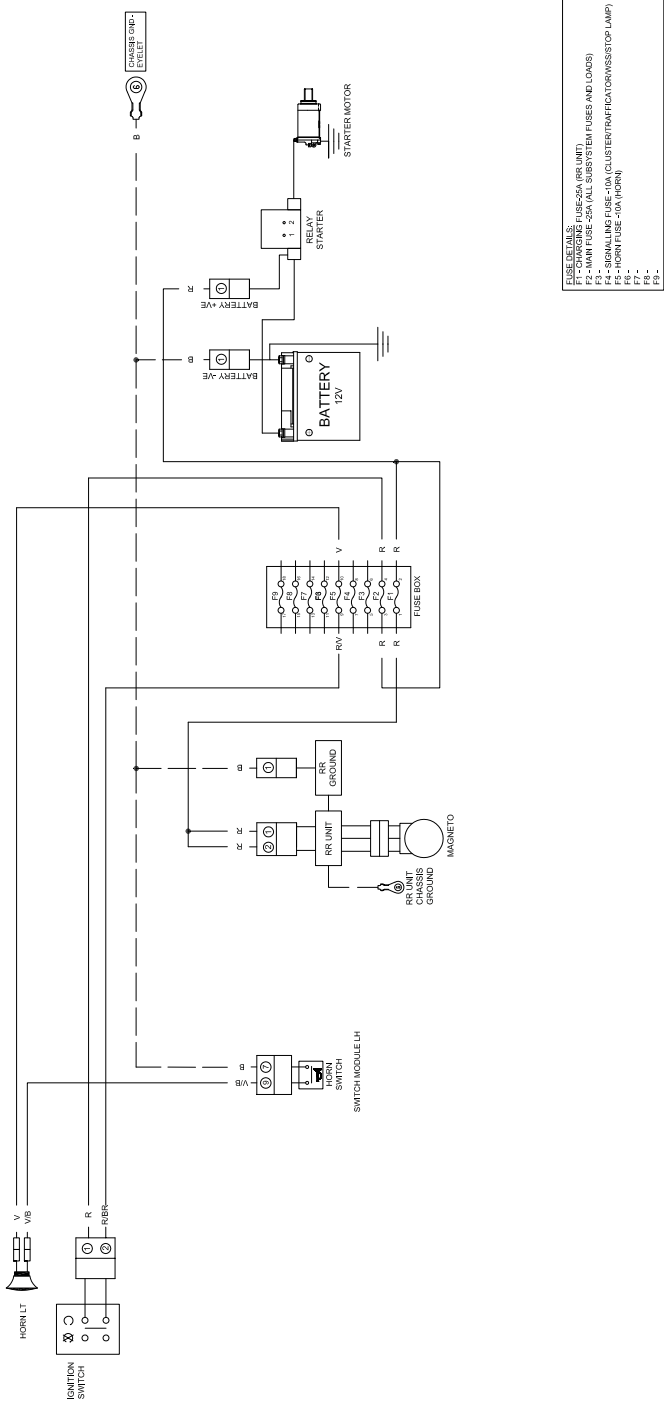
## EURO IV

[illegible]

# WIRING DIAGRAM - HIMALAYAN

EURO IV

## HIMALAYAN EURO IV WIRING HARNESS - HORN SYSTEM





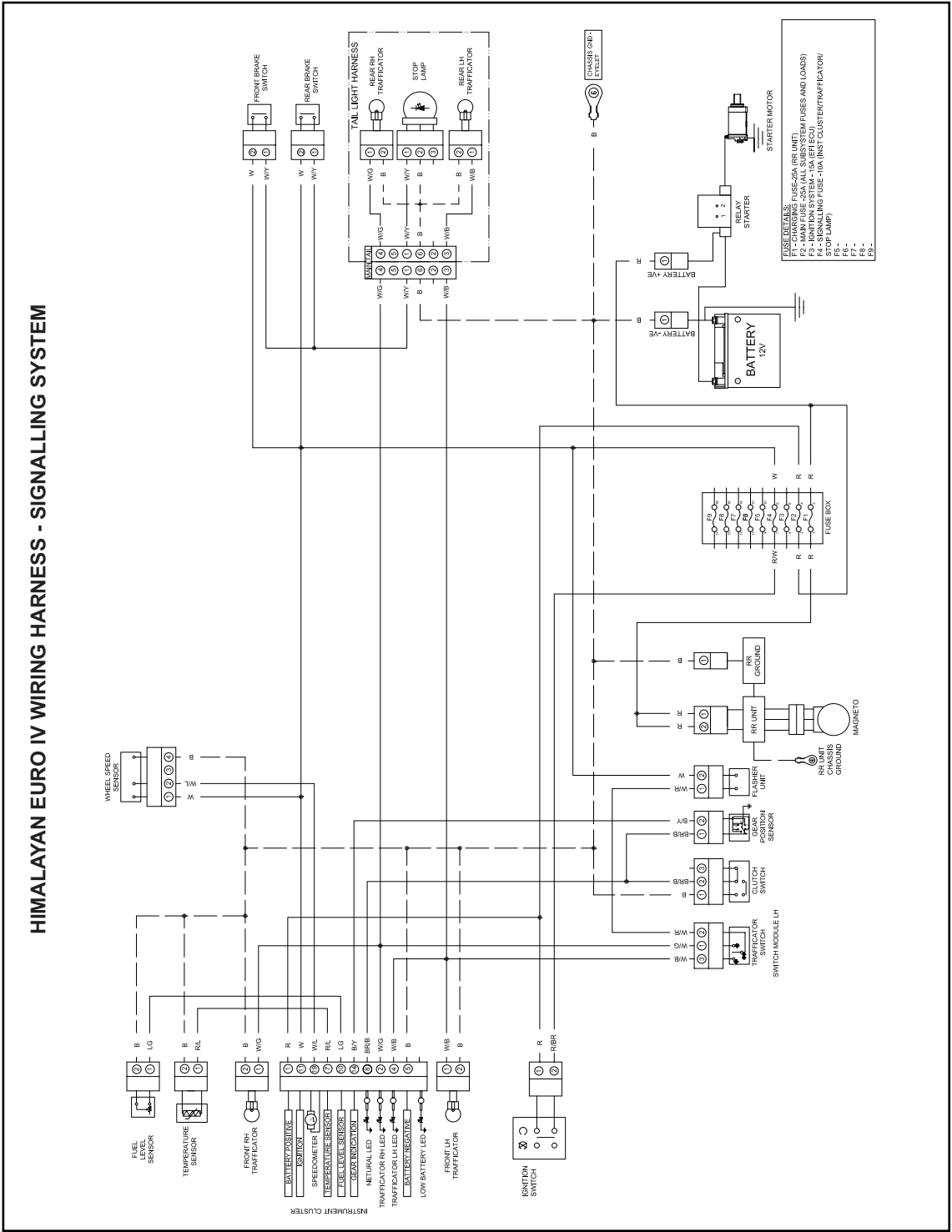
## EURO IV

**Wiring Diagram Details:**

- Instrument Cluster:**
  - BATTERY POSITIVE
  - IGNITION
  - HIGH BEAM LED
  - IGNITION NEGATIVE
  - LOW BATTERY LED
- Ignition Switch:**
  - IGNITION SWITCH
  - 1 - R
  - 2 - R/BK
- Head Lamp:**
  - HEAD LAMP
  - FRONT POSITION LAMP
  - YG
  - B
  - YL
  - YGR
- Fuse Box:**
  - 1 - R
  - 2 - R/BK
  - 3 - YG
  - 4 - B
  - 5 - YL
  - 6 - YGR
  - 7 - R
  - 8 - R
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  - 10 - R
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- Battery:**
  - BATTERY
  - 12V
  - BATTERY +VE
  - BATTERY -VE
- Relay Starter:**
  - RELAY STARTER
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- Chassis Ground:**
  - CHASSIS GND
  - EXTEST
  - B
- Legend:**
  - R - RED
  - W - WHITE
  - YL - YELLOW
  - B - BLACK
  - YG - YELLOW/GREEN
  - B - BLACK
  - YL - YELLOW
  - YGR - YELLOW/GREEN/RED
- Fuse Details:**
  - FUSE DETAILS
  - F1 - MAIN FUSE - 25A (ALL SUBSYSTEM FUSES AND LOADS)
  - F2 - MAIN FUSE - 25A (ALL SUBSYSTEM FUSES AND LOADS)
  - F3 - SIGNALING FUSE - 10A (CLUSTER/TRAFFIC (OR WASSTOP LAMP))
  - F4 - LIGHTING FUSE - 15A (HEAD LAMP/POSITION LAMP)
  - F5 - LIGHTING FUSE - 15A (HEAD LAMP/POSITION LAMP)
  - F6 - LIGHTING FUSE - 15A (HEAD LAMP/POSITION LAMP)
  - F7 - LIGHTING FUSE - 15A (HEAD LAMP/POSITION LAMP)
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  - F67 - LIGHTING FUSE - 15A (HEAD LAMP/POSITION LAMP)
  - F68 - LIGHTING FUSE - 15A (HEAD LAMP/POSITION LAMP)
  - F69 - LIGHTING FUSE - 15A (HEAD

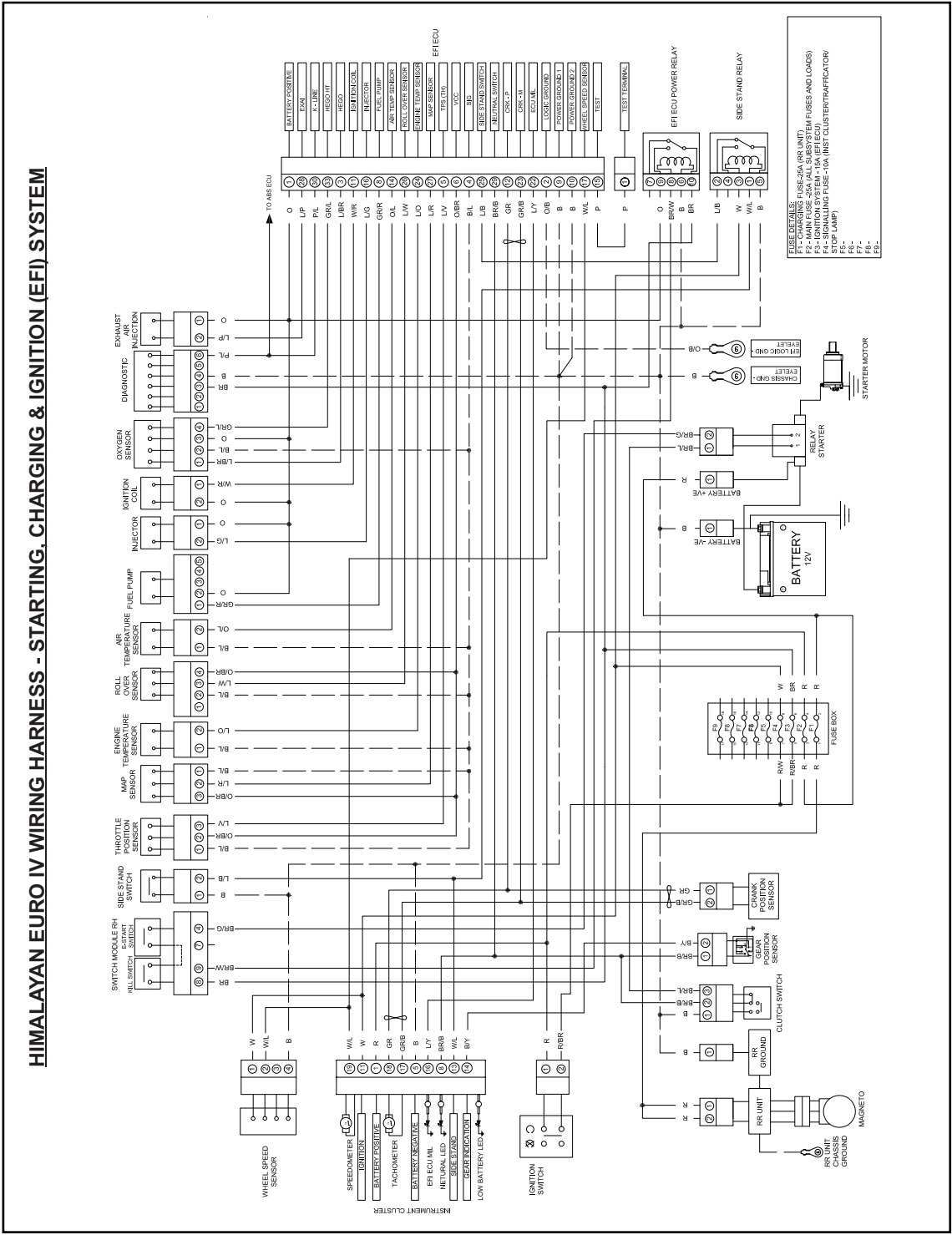
WIRING DIAGRAM - HIMALAYAN

EURO IV



# WIRING DIAGRAM - HIMALAYAN

EURO IV



## EURO IV

**DIAGNOSTIC**

**TO ECU**

**ABS ECU**

**ABS GROUND - 2**

**ABS GROUND - 1**

**POSTSIDE 1**

**POSTSIDE 2**

**GROUND 1**

**GROUND 2**

**ABS WARNING LAMP**

**ABS IGNITION**

**K-C LINE**

**FRONT WHEEL SPEED SENSOR**

**REAR WHEEL SPEED SENSOR**

**FRONT WHEEL ABS**

**REAR WHEEL ABS**

**CHASSIS GND - 1**

**CHASSIS GND - 2**

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**CHASSIS GND - 194</**

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## **TROUBLE SHOOTING**

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We have listed below a few basic checks in case your motorcycle is not functioning. If in case the problem is not rectified after these checks, it is necessary to get the motorcycle checked by a Royal Enfield Authorized Dealer / Service Center to rectify the problem and to ensure trouble free performance.

Symptom	Observations	Check for / Remedy
<b>Engine Does not start</b>	1. Ignition / Engine stop switch is in 'OFF' position.	Switch 'ON' Ignition / Engine stop switch.
	2. Very low / No fuel in the fuel tank.	Fill Fuel
	3. Lights / horn very dim	Weak / Discharged battery. Replace Battery.
	4. Electricals not working	1. Battery completely dead. Replace battery. 2. Fuse Blown. Replace appropriate fuse. Note: If fuse blows again, contact Authorized Service Center.

## **TROUBLE SHOOTING**

Symptom	Observations	Check for / Remedy
<b>Engine Does not start</b>	5. Engine Cranking but not starting	<p>Spark plug Cap / wire disconnected. Reconnect. Check if SIDE STAND is ON / SIDE STAND SWITCH MALFUNCTION.</p> <p>Check if gear is engaged and the side stand is down. If the ambient Temperature is low use Manual Bi-starter.</p>
<b>Engine Starts BUT shuts off immediatley</b>	Engine shuts off as soon as throttle is closed.	<p>Idling RPM set too low / setting disturbed. Contact Authorized Service Center for resetting the Idling RPM.</p> <p>Check if the MIL Lamp is glowing; If yes, Contact Authorized Service Center.</p>

## **TROUBLE SHOOTING**

Symptom	Observations	Check for / Remedy
<b>Engine Misfires &amp; Runs Erratically / Stops</b>	1. Typically happens after a Refill / Adulterated / Water in Fuel.	Drain out entire fuel and Refill with fresh fuel from a reputed filling station.
	2. Motorcycle driven in Low gear / High RPM / Crowded places for long time.	Excessive Engine temperature. Switch OFF Engine and allow to cool down.  Check if the MIL Lamp is glowing; If yes, Contact Authorized Service Center.

## **TROUBLE SHOOTING**

Symptom	Observations	Check for / Remedy
<b>Poor Pickup</b>	Engine RPM raises disproportionately to motorcycle speed.	Clutch is Slipping. Check for sticky clutch / clutch not having any free play.
	Rear Chain excessively loose causing chain to slip on Sprocket.	Adjust Rear chain to correct tension.  Check if the MIL Lamp is glowing; If yes, Contact Authorized Service Center.
<b>ABS (Anti lock Braking system)</b>	ABS lamp continuously ON.	Take the vehicle to service center for diagnosis.



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## **WARRANTY TERMS & CONDITIONS**

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Royal Enfield Motorcycles are manufactured by following best Quality practices in respect of the material and workmanship.

Royal Enfield (RE) warrants its motorcycle to be free from manufacturing and material defect under normal use subject to following conditions.

1. Warranty shall be in force until the expiry of a period of 24 months from the first date of sale to the first customer and to any subsequent owners for the balance of the remaining period, until expiry of 24 months from the date of first sale / registration of the motorcycle.
2. In order to effect Warranty, it is a prerequisite that the maintenance schedule prescribed by Royal Enfield in this Owner's manual and warranty repairs if any, has been carried out at the Authorized Distributor's service facility OR at their Authorized dealership's service facility.
3. Record of all the regular services and periodical maintenance that have been carried out, along with proof of service history will be required to be verified by the Authorized Distributor's service facility OR their Authorized dealership's service facility, prior to carrying out a warranty service.

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## **WARRANTY TERMS & CONDITIONS**

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4. Proof of Ownership, in the form of Sales Registration OR Proof of Purchase documentation of the motorcycle, clearly mentioning the Engine & VIN numbers, must be provided to the Distributor's service facility OR their Authorized dealership's service facility.
5. During the warranty period, RE's obligations shall be limited to repairing / replacing part(s) of the motorcycle for free, only if the part(s), on examination is deemed to have a manufacturing defect. Defective part(s) which have been replaced will become the sole property of RE.
6. Consumables like Oil, Oil Filter, Fuel etc used during warranty repair / replacement are not covered and chargeable to the customer.
7. Claims on proprietary items like tyres, tubes, spark plug, battery etc. should be taken up with the respective manufacturer or their authorized agents in the area directly by the customer. RE shall not be liable in any manner to replace them through their dealers. RE will, however, provide assistance in referring such claims on the respective manufacturer.

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## **WARRANTY TERMS & CONDITIONS**

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8. Warranty shall not apply to:

- (a) Normal ageing, deterioration or rusting of plated parts, paints coat, rubber parts, soft items, glass items, plastic parts etc.
- (b) Components like fuel filter, oil filter, air filter paper element, control cables, brake shoes / brake pads, clutch plates, drive chain & sprocket kit, steering ball races, electrical equipment, wiring harness etc., which are subjected to normal wear and tear.
- (c) Failures occurred due to use of non recommended grade lubricants, fuel or improper level.
- (d) Damages due to use of non-genuine parts, lack of proper maintenance, incorrect riding habits.
- (e) Damages to engine management system parts (like ECU, Throttle body, Sensors, etc.) due to tampering which affects the performance of the motorcycle.
- (f) Parts damaged due to accidents, collision, abuse etc.
- (g) Irregularities not recognised as affecting the quality or function of the motorcycle such as slight vibration, oil leakage, blue discoloration of exhaust bent pipe / silencer / soft or hard shockabsorber etc.

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## **WARRANTY TERMS & CONDITIONS**

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- (h) Defects arising from fitment of unauthorized or additional electrical loads.
  - (i) Motorcycle serviced or repaired at unauthorized service centers.
  - (j) Motorcycle used for competitions / racing / Stage Rallying etc.
  - (k) Electrical component like bulbs, fuses etc. and electronic components failure due to repairs by arc welding.
  - (l) Normal maintenance operations like adjustment of brakes, cleaning fuel system, engine tune-up and other such adjustments.
  - (m) Oxidization of buffed / painted / powder coated items etc.
9. Use only Royal Enfield approved parts and accessories. Use of certain other manufacturer's performance parts will void your new motorcycle warranty.
  10. RE reserves the right to finally decide on all warranty claims.
  11. RE reserves the right to make changes in design of the motorcycle without any obligation to install these changes on previously supplied motorcycles.

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## **EVAPORATIVE EMISSION CONTROL SYSTEM WARRANTY**

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The following warranty applies to the evaporative emission control system and is in addition to the LIMITED WARRANTY, EMISSION CONTROL SYSTEM WARRANTY & NOISE CONTROL SYSTEM WARRANTY.

Royal Enfield Motors warrants the first owner and each subsequent owner, that this motorcycle is designed and built so as to conform, at the time of sale, with applicable regulations specified by the European Union AND that the evaporative emission control system related parts fitted to this motorcycle are free from defects in materials and workmanship which may cause this motorcycle not to meet applicable regulations of the European Union for a period of **24 Months from the date of first use of the motorcycle.**

The Warranty period shall begin either on the date the motorcycle is delivered to the first retail purchaser OR from the first date the motorcycle is used as a demonstrator OR as a display and / or trial motorcycle.

### **THE FOLLOWING ARE NOT COVERED BY THE EVAPORATIVE EMISSION CONTROL SYSTEM WARRANTY:**

1. Failures which may arise as a result of misuse, alterations, accidents OR non performance of routine maintenance, as specified in the Owner's Manual.

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## **EVAPORATIVE EMISSION CONTROL SYSTEM WARRANTY**

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2. Replacing OR removing OR modifying any portion of the EVAPORATIVE EMISSION CONTROL SYSTEM (consisting of Fuel tank, fuel tank cap, Canister, purge valve, throttle body, vapor hoses, fuel hoses and hose connectors) with parts not certified to be genuine.
3. Loss of time, inconvenience, loss of motorcycle use or any other consequential loss or damages.
4. Any motorcycle in which the Odometer has been tampered with, OR the Speedo cable has been disconnected for any reason OR is broken and not replaced immediately, due to which the exact distance covered cannot be determined.
5. Normal ageing of parts such as fuel hoses, vapor hoses, gaskets & rubber components.

### **RECOMMENDATIONS FOR REQUIRED MAINTENANCE**

IT IS RECOMMENDED THAT THE ROUTINE MAINTENANCE OF THE MOTORCYCLE BE CARRIED OUT AT SPECIFIED INTERVALS AND ANY MAINTENANCE TO THE EVAPORATIVE EMISSION CONTROL SYSTEMS SHOULD BE PERFORMED ONLY BY AN AUTHORIZED ROYAL ENFIELD SERVICE DEALER AND USING ONLY GENUINE ROYAL ENFIELD SPARE PARTS.

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**SERVICE MAINTENANCE RECORD**

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S.No.	Date	Job Card No.	KMS/ Miles	Brief details of work / service	Royal Enfield Authorized Dealer
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					

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**SERVICE MAINTENANCE RECORD**

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S.No.	Date	Job Card No.	KMS/ Miles	Brief details of work / service	Royal Enfield Authorized Dealer
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					



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**SERVICE MAINTENANCE RECORD**

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S.No.	Date	Job Card No.	KMS/ Miles	Brief details of work / service	Royal Enfield Authorized Dealer
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					

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**SERVICE MAINTENANCE RECORD**

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S.No.	Date	Job Card No.	KMS/ Miles	Brief details of work / service	Royal Enfield Authorized Dealer
25.					
26.					
27.					
28.					
29.					
30.					
31.					
32.					

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**ROYAL ENFIELD**

Part No. 1017081/A

[ROYALENFIELD.COM](http://ROYALENFIELD.COM)